

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
 Data File : VW026448.D  
 Acq On : 29 Jun 2023 21:38  
 Operator : SY/MD  
 Sample : 03452-19  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46Q7

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

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

Signal : TIC: VW026448.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         | 2.137       | 37            | 41          | 46           | rBV2     | 27107          | 49980         | 1.45%           | 0.142%        |
| 2         | 2.363       | 71            | 78          | 93           | rBV      | 123610         | 325469        | 9.46%           | 0.927%        |
| 3         | 2.625       | 118           | 121         | 122          | rBV3     | 5146           | 5923          | 0.17%           | 0.017%        |
| 4         | 2.893       | 157           | 165         | 181          | rBV      | 119358         | 340036        | 9.89%           | 0.969%        |
| 5         | 3.393       | 243           | 247         | 254          | rVB7     | 3784           | 9597          | 0.28%           | 0.027%        |
| 6         | 3.533       | 263           | 270         | 274          | rBV7     | 2390           | 6136          | 0.18%           | 0.017%        |
| 7         | 4.021       | 338           | 350         | 360          | rBV      | 299146         | 977589        | 28.43%          | 2.785%        |
| 8         | 4.118       | 360           | 366         | 377          | rVB      | 93302          | 259176        | 7.54%           | 0.738%        |
| 9         | 4.381       | 401           | 409         | 410          | rBV6     | 6851           | 10233         | 0.30%           | 0.029%        |
| 10        | 4.929       | 484           | 499         | 520          | rBV4     | 23141          | 106589        | 3.10%           | 0.304%        |
| 11        | 5.411       | 571           | 578         | 579          | rBV5     | 2056           | 3464          | 0.10%           | 0.010%        |
| 12        | 5.429       | 579           | 581         | 590          | rVB8     | 2409           | 5736          | 0.17%           | 0.016%        |
| 13        | 5.783       | 636           | 639         | 640          | rBV3     | 2855           | 3793          | 0.11%           | 0.011%        |
| 14        | 5.941       | 655           | 665         | 673          | rBV3     | 11357          | 34689         | 1.01%           | 0.099%        |
| 15        | 6.984       | 829           | 836         | 837          | rVV7     | 2636           | 5315          | 0.15%           | 0.015%        |
| 16        | 7.075       | 842           | 851         | 859          | rVV2     | 131944         | 382307        | 11.12%          | 1.089%        |
| 17        | 7.167       | 862           | 866         | 882          | rVV      | 49843          | 146007        | 4.25%           | 0.416%        |
| 18        | 7.648       | 934           | 945         | 961          | rBV      | 554347         | 1363794       | 39.66%          | 3.886%        |
| 19        | 7.935       | 984           | 992         | 993          | rBV5     | 4575           | 9575          | 0.28%           | 0.027%        |
| 20        | 8.026       | 1001          | 1007        | 1016         | rVB8     | 6763           | 16860         | 0.49%           | 0.048%        |
| 21        | 8.160       | 1021          | 1029        | 1034         | rBV3     | 9557           | 23597         | 0.69%           | 0.067%        |
| 22        | 8.276       | 1035          | 1048        | 1066         | rBV2     | 1159676        | 3439125       | 100.00%         | 9.799%        |
| 23        | 8.429       | 1066          | 1073        | 1079         | rBV9     | 4995           | 12941         | 0.38%           | 0.037%        |
| 24        | 8.563       | 1090          | 1095        | 1104         | rVB7     | 8365           | 20421         | 0.59%           | 0.058%        |
| 25        | 8.697       | 1112          | 1117        | 1123         | rBV7     | 3503           | 7953          | 0.23%           | 0.023%        |
| 26        | 8.843       | 1131          | 1141        | 1155         | rBV      | 1195449        | 2423278       | 70.46%          | 6.904%        |
| 27        | 9.069       | 1171          | 1178        | 1186         | rVB10    | 7381           | 19150         | 0.56%           | 0.055%        |
| 28        | 9.276       | 1203          | 1212        | 1219         | rBV      | 799047         | 1671509       | 48.60%          | 4.762%        |
| 29        | 9.331       | 1219          | 1221        | 1227         | rVB3     | 40384          | 62203         | 1.81%           | 0.177%        |
| 30        | 9.514       | 1247          | 1251        | 1256         | rVB6     | 2276           | 4276          | 0.12%           | 0.012%        |
| 31        | 9.605       | 1256          | 1266        | 1272         | rBV5     | 9785           | 22506         | 0.65%           | 0.064%        |
| 32        | 9.672       | 1275          | 1277        | 1280         | rVV4     | 3203           | 4273          | 0.12%           | 0.012%        |
| 33        | 9.752       | 1284          | 1290        | 1300         | rVB4     | 14181          | 33503         | 0.97%           | 0.095%        |
| 34        | 9.898       | 1309          | 1314        | 1318         | rVB2     | 6878           | 11538         | 0.34%           | 0.033%        |
| 35        | 9.947       | 1318          | 1322        | 1325         | rBV5     | 4019           | 6688          | 0.19%           | 0.019%        |
| 36        | 10.032      | 1325          | 1336        | 1344         | rBV      | 386898         | 714318        | 20.77%          | 2.035%        |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46Q7

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 10.221 | 1360 | 1367 | 1368 | rBV7 | 3408    | 6310    | 0.18%  | 0.018% |
| 38 | 10.239 | 1368 | 1370 | 1375 | rVB3 | 6207    | 9151    | 0.27%  | 0.026% |
| 39 | 10.325 | 1375 | 1384 | 1399 | rBV  | 1470816 | 2697044 | 78.42% | 7.684% |
| 40 | 10.440 | 1399 | 1403 | 1406 | rBV6 | 4067    | 6617    | 0.19%  | 0.019% |
| 41 | 10.495 | 1406 | 1412 | 1419 | rVB7 | 12287   | 33943   | 0.99%  | 0.097% |
| 42 | 10.575 | 1419 | 1425 | 1435 | rBV  | 234962  | 425940  | 12.39% | 1.214% |
| 43 | 10.660 | 1435 | 1439 | 1443 | rVV3 | 15918   | 28230   | 0.82%  | 0.080% |
| 44 | 10.697 | 1443 | 1445 | 1450 | rVB  | 8802    | 12999   | 0.38%  | 0.037% |
| 45 | 10.757 | 1450 | 1455 | 1460 | rBV5 | 10944   | 18473   | 0.54%  | 0.053% |
| 46 | 10.843 | 1465 | 1469 | 1475 | rVB3 | 12314   | 20417   | 0.59%  | 0.058% |
| 47 | 10.922 | 1475 | 1482 | 1495 | rBV  | 457114  | 826002  | 24.02% | 2.353% |
| 48 | 11.032 | 1496 | 1500 | 1509 | rVV  | 19397   | 53712   | 1.56%  | 0.153% |
| 49 | 11.105 | 1509 | 1512 | 1515 | rVV5 | 10422   | 16596   | 0.48%  | 0.047% |
| 50 | 11.178 | 1519 | 1524 | 1527 | rVV  | 26188   | 45354   | 1.32%  | 0.129% |
| 51 | 11.227 | 1527 | 1532 | 1537 | rVV  | 49495   | 91360   | 2.66%  | 0.260% |
| 52 | 11.282 | 1537 | 1541 | 1544 | rVV4 | 11510   | 21764   | 0.63%  | 0.062% |
| 53 | 11.337 | 1545 | 1550 | 1554 | rVV4 | 33118   | 65761   | 1.91%  | 0.187% |
| 54 | 11.379 | 1554 | 1557 | 1561 | rVV4 | 17035   | 32646   | 0.95%  | 0.093% |
| 55 | 11.434 | 1562 | 1566 | 1574 | rVB2 | 27562   | 48929   | 1.42%  | 0.139% |
| 56 | 11.507 | 1574 | 1578 | 1583 | rBV  | 14796   | 25600   | 0.74%  | 0.073% |
| 57 | 11.629 | 1591 | 1598 | 1607 | rBV  | 1386885 | 2323094 | 67.55% | 6.619% |
| 58 | 11.709 | 1607 | 1611 | 1616 | rVV3 | 10742   | 21271   | 0.62%  | 0.061% |
| 59 | 11.763 | 1617 | 1620 | 1623 | rVV3 | 11398   | 14124   | 0.41%  | 0.040% |
| 60 | 11.812 | 1623 | 1628 | 1633 | rVV5 | 16884   | 33469   | 0.97%  | 0.095% |
| 61 | 11.873 | 1633 | 1638 | 1642 | rVV  | 42713   | 78781   | 2.29%  | 0.224% |
| 62 | 11.910 | 1642 | 1644 | 1649 | rVB3 | 25907   | 39212   | 1.14%  | 0.112% |
| 63 | 11.971 | 1650 | 1654 | 1656 | rBV4 | 11100   | 17110   | 0.50%  | 0.049% |
| 64 | 12.062 | 1664 | 1669 | 1673 | rVB5 | 18134   | 31018   | 0.90%  | 0.088% |
| 65 | 12.135 | 1674 | 1681 | 1687 | rBV4 | 69763   | 164604  | 4.79%  | 0.469% |
| 66 | 12.245 | 1695 | 1699 | 1704 | rVB  | 96505   | 159026  | 4.62%  | 0.453% |
| 67 | 12.361 | 1704 | 1718 | 1726 | rBV4 | 126313  | 459820  | 13.37% | 1.310% |
| 68 | 12.495 | 1735 | 1740 | 1748 | rVB4 | 68949   | 167882  | 4.88%  | 0.478% |
| 69 | 12.611 | 1752 | 1759 | 1764 | rVB4 | 53171   | 133800  | 3.89%  | 0.381% |
| 70 | 12.690 | 1765 | 1772 | 1778 | rBV  | 594158  | 1023708 | 29.77% | 2.917% |
| 71 | 12.775 | 1782 | 1786 | 1792 | rVB3 | 107613  | 200020  | 5.82%  | 0.570% |
| 72 | 12.855 | 1792 | 1799 | 1803 | rBV4 | 68633   | 169106  | 4.92%  | 0.482% |
| 73 | 12.940 | 1805 | 1813 | 1818 | rBV6 | 180065  | 562500  | 16.36% | 1.603% |
| 74 | 13.074 | 1832 | 1835 | 1839 | rVB2 | 73575   | 98093   | 2.85%  | 0.279% |
| 75 | 13.123 | 1839 | 1843 | 1846 | rBV2 | 43125   | 68916   | 2.00%  | 0.196% |
| 76 | 13.159 | 1846 | 1849 | 1856 | rVV4 | 75141   | 142574  | 4.15%  | 0.406% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46Q7

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

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

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 13.288 | 1863 | 1870 | 1874 | rBV2 | 125926  | 220433  | 6.41%  | 0.628% |
| 78  | 13.336 | 1875 | 1878 | 1882 | rVV2 | 80557   | 118081  | 3.43%  | 0.336% |
| 79  | 13.446 | 1887 | 1896 | 1899 | rBV6 | 167219  | 356006  | 10.35% | 1.014% |
| 80  | 13.556 | 1908 | 1914 | 1926 | rBV  | 870916  | 1555692 | 45.24% | 4.433% |
| 81  | 13.696 | 1932 | 1937 | 1941 | rBV4 | 80894   | 141418  | 4.11%  | 0.403% |
| 82  | 13.848 | 1956 | 1962 | 1970 | rBV  | 747420  | 1790288 | 52.06% | 5.101% |
| 83  | 13.915 | 1970 | 1973 | 1979 | rVV5 | 129544  | 232893  | 6.77%  | 0.664% |
| 84  | 13.976 | 1979 | 1983 | 1986 | rVV4 | 112122  | 167446  | 4.87%  | 0.477% |
| 85  | 14.056 | 1994 | 1996 | 1999 | rBV4 | 54097   | 77492   | 2.25%  | 0.221% |
| 86  | 14.190 | 2014 | 2018 | 2023 | rBV3 | 108101  | 200182  | 5.82%  | 0.570% |
| 87  | 14.257 | 2025 | 2029 | 2035 | rVB3 | 173838  | 281416  | 8.18%  | 0.802% |
| 88  | 14.312 | 2035 | 2038 | 2042 | rVB3 | 75949   | 103682  | 3.01%  | 0.295% |
| 89  | 14.379 | 2043 | 2049 | 2054 | rBV2 | 407734  | 765194  | 22.25% | 2.180% |
| 90  | 14.495 | 2064 | 2068 | 2071 | rBV4 | 116094  | 230777  | 6.71%  | 0.658% |
| 91  | 14.543 | 2073 | 2076 | 2081 | rVB3 | 196897  | 300229  | 8.73%  | 0.855% |
| 92  | 14.732 | 2103 | 2107 | 2112 | rBV6 | 133294  | 263115  | 7.65%  | 0.750% |
| 93  | 14.793 | 2113 | 2117 | 2122 | rVV4 | 268403  | 572125  | 16.64% | 1.630% |
| 94  | 14.848 | 2122 | 2126 | 2135 | rVB3 | 287233  | 551904  | 16.05% | 1.572% |
| 95  | 15.110 | 2167 | 2169 | 2173 | rVB3 | 97532   | 121542  | 3.53%  | 0.346% |
| 96  | 15.318 | 2198 | 2203 | 2210 | rVB  | 1082651 | 1784063 | 51.88% | 5.083% |
| 97  | 15.391 | 2210 | 2215 | 2220 | rBV4 | 166430  | 385595  | 11.21% | 1.099% |
| 98  | 15.568 | 2240 | 2244 | 2249 | rBV4 | 121439  | 261510  | 7.60%  | 0.745% |
| 99  | 15.622 | 2250 | 2253 | 2255 | rBV4 | 80881   | 101642  | 2.96%  | 0.290% |
| 100 | 16.275 | 2355 | 2360 | 2369 | rVB  | 858276  | 1580138 | 45.95% | 4.502% |

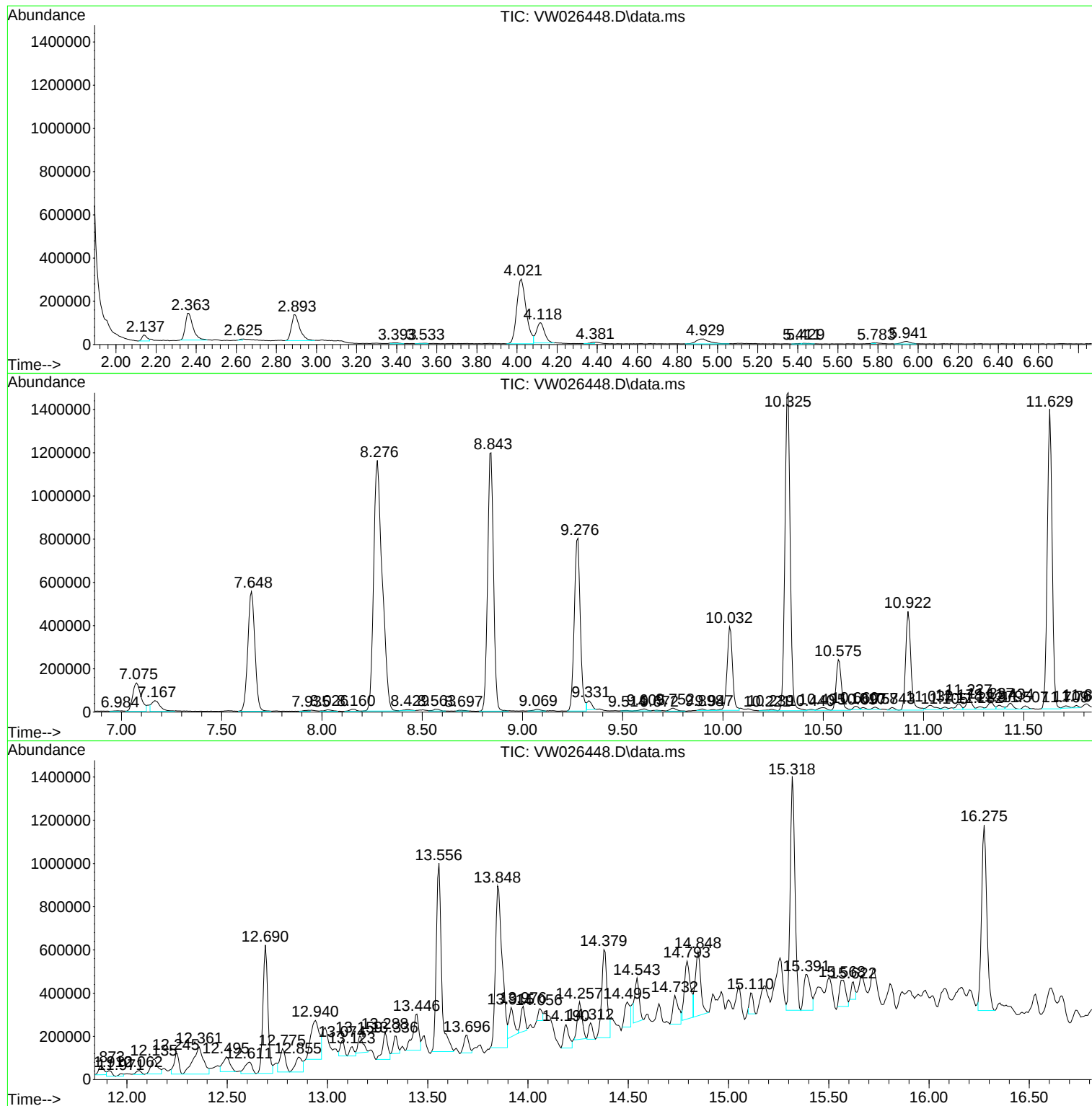
Sum of corrected areas: 35097386

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Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
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ALS Vial : 1 Sample Multiplier: 1

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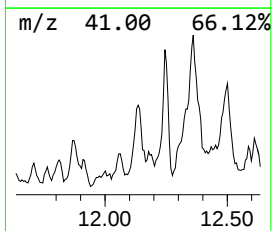
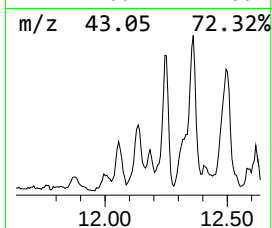
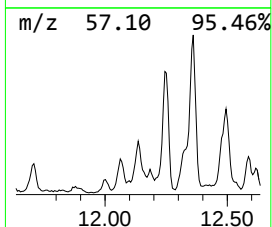
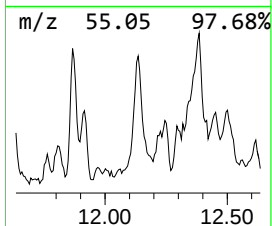
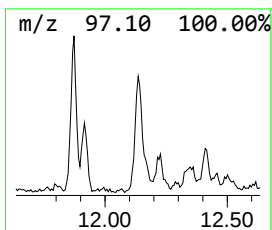
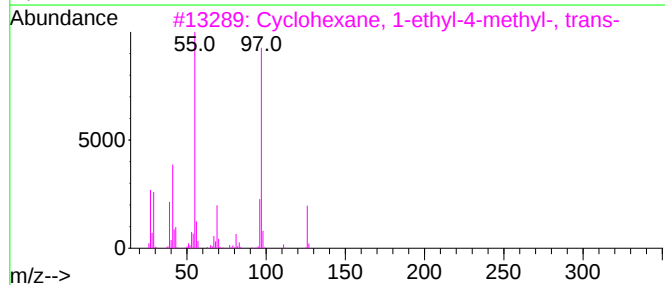
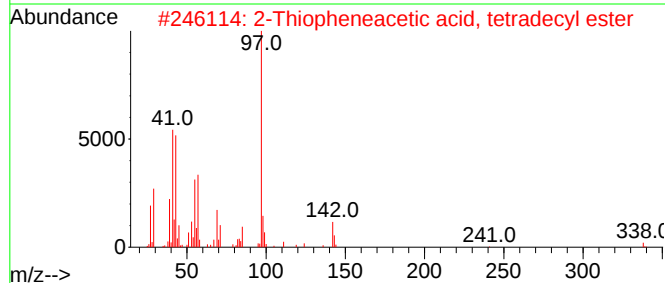
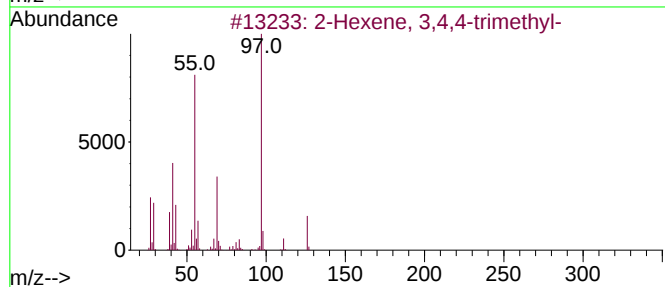
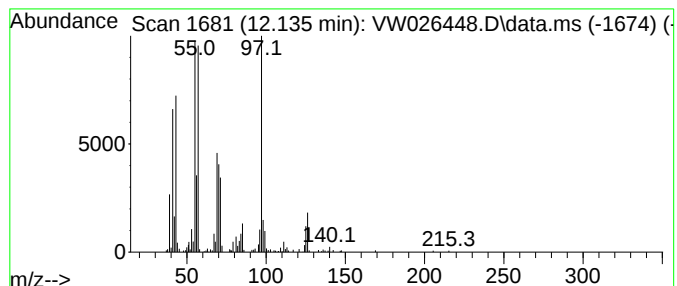
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.135 | 1.77 ug/L | 164604 | Chlorobenzene-d5 | 11.629 |

| Hit# | of 5                                | Tentative ID | MW        | MolForm      | CAS# | Qual |
|------|-------------------------------------|--------------|-----------|--------------|------|------|
| 1    | 2-Hexene, 3,4,4-trimethyl-          | 126          | C9H18     | 053941-19-8  | 43   |      |
| 2    | 2-Thiopheneacetic acid, tetradec... | 338          | C20H34O2S | 1000278-91-9 | 43   |      |
| 3    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126          | C9H18     | 006236-88-0  | 38   |      |
| 4    | 3,5-Dimethyl-3-heptene              | 126          | C9H18     | 059643-68-4  | 38   |      |
| 5    | Cyclopentane, (1-methylbutyl)-      | 140          | C10H20    | 004737-43-3  | 38   |      |



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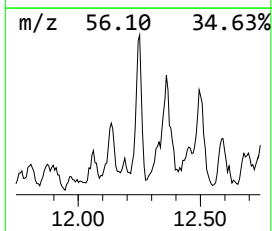
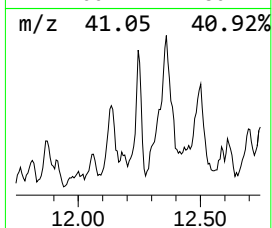
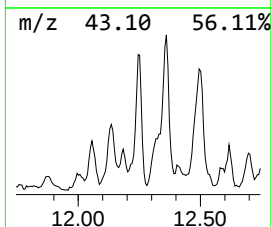
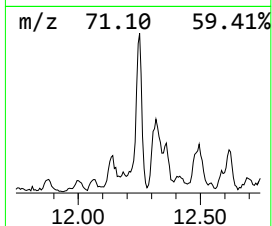
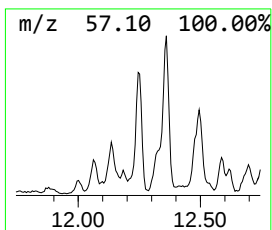
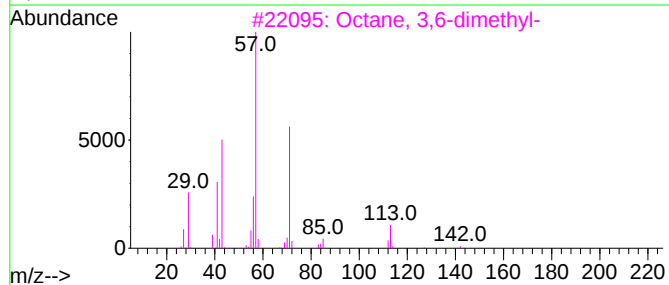
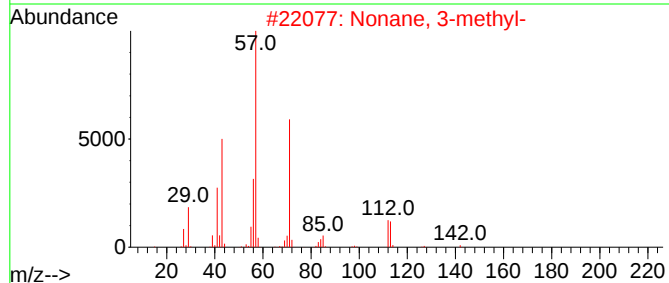
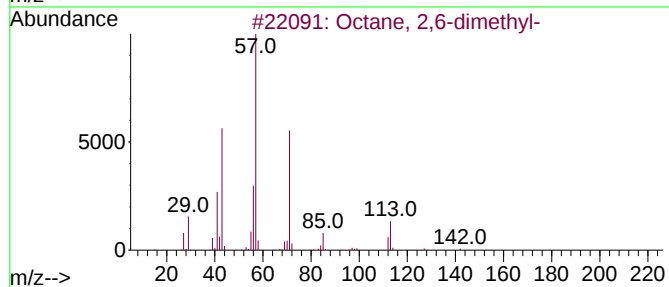
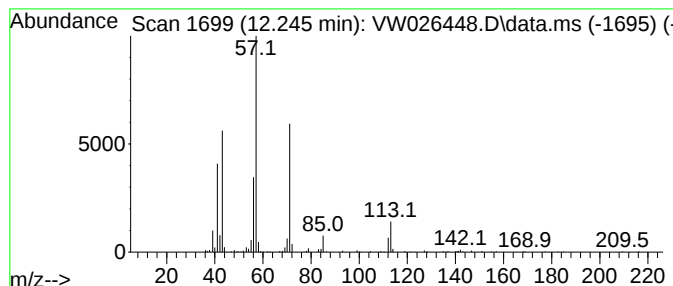
Instrument :  
MSVOA\_W  
ClientSampleId :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T.      | EstConc               | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------|--------|------------------|---------|-------------|------|
| 12.245    | 1.71 ug/L             | 159026 | Chlorobenzene-d5 |         | 11.629      |      |
| Hit# of 5 | Tentative ID          |        | MW               | MolForm | CAS#        | Qual |
| 1         | Octane, 2,6-dimethyl- |        | 142              | C10H22  | 002051-30-1 | 91   |
| 2         | Nonane, 3-methyl-     |        | 142              | C10H22  | 005911-04-6 | 90   |
| 3         | Octane, 3,6-dimethyl- |        | 142              | C10H22  | 015869-94-0 | 90   |
| 4         | Octane, 2,6-dimethyl- |        | 142              | C10H22  | 002051-30-1 | 87   |
| 5         | Nonane, 3-methyl-     |        | 142              | C10H22  | 005911-04-6 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

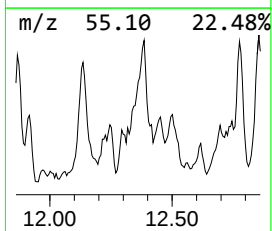
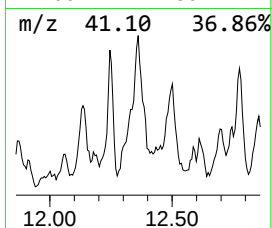
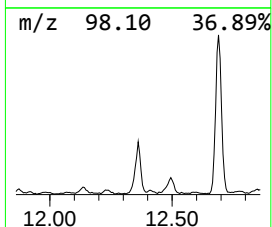
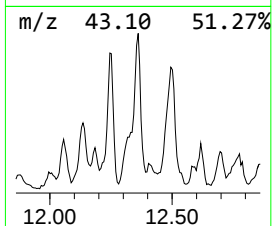
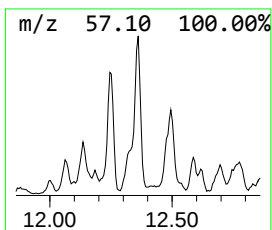
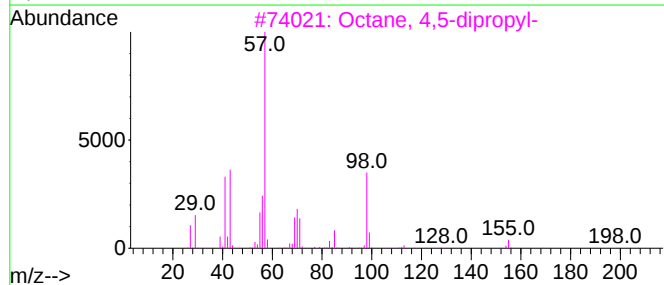
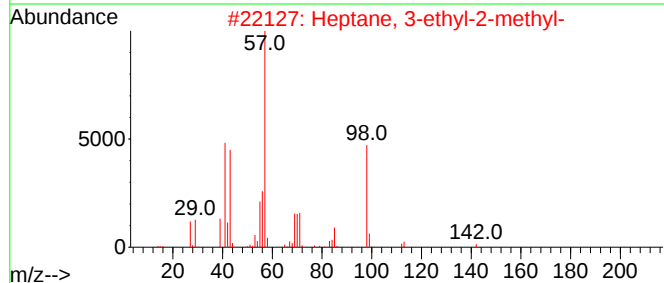
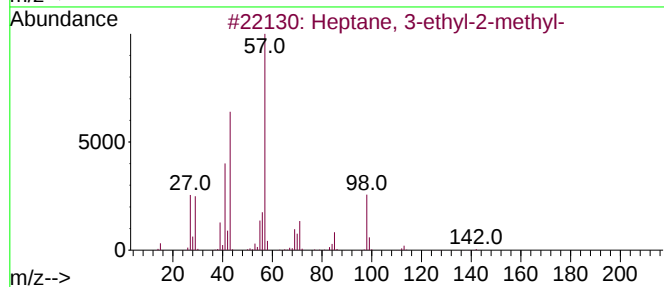
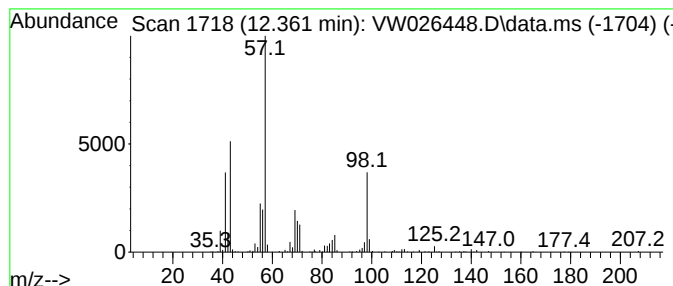
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.361 | 4.95 ug/L | 459820 | Chlorobenzene-d5 | 11.629 |

| Hit# | of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------------|-----|---------|-------------|------|
| 1    |      | Heptane, 3-ethyl-2-methyl- | 142 | C10H22  | 014676-29-0 | 86   |
| 2    |      | Heptane, 3-ethyl-2-methyl- | 142 | C10H22  | 014676-29-0 | 81   |
| 3    |      | Octane, 4,5-dipropyl-      | 198 | C14H30  | 020905-05-9 | 78   |
| 4    |      | Octane, 2,3-dimethyl-      | 142 | C10H22  | 007146-60-3 | 68   |
| 5    |      | Octane, 2,3-dimethyl-      | 142 | C10H22  | 007146-60-3 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

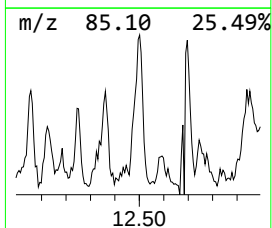
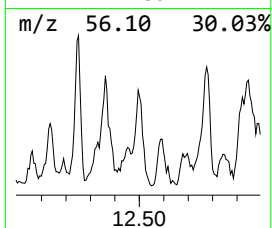
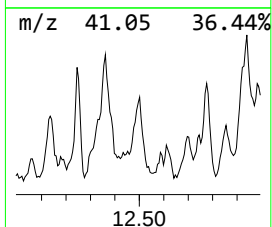
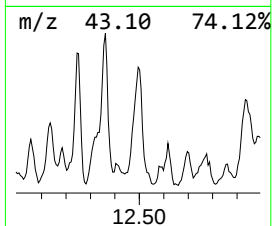
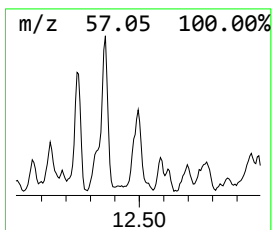
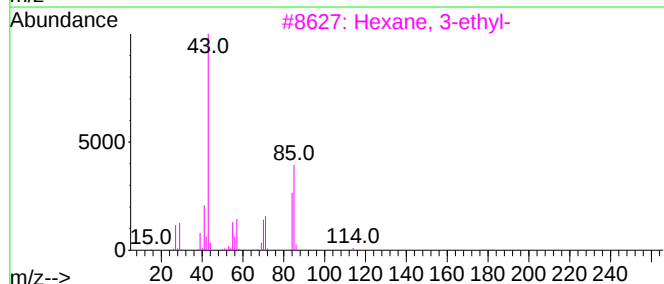
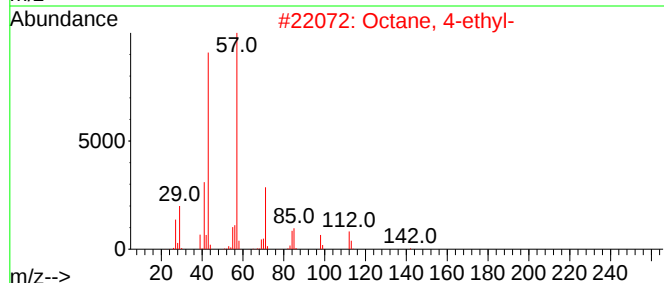
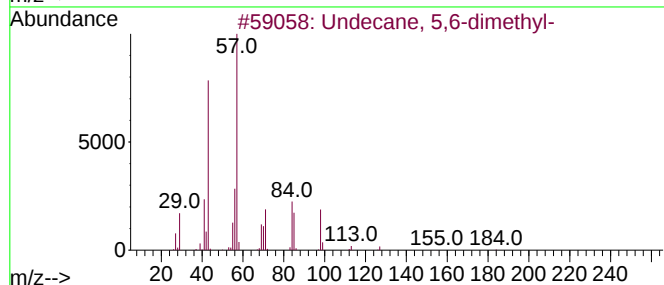
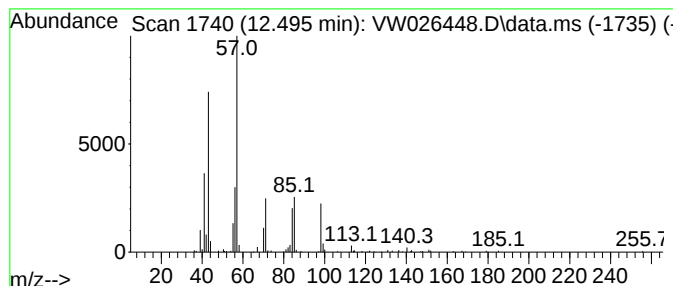
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MSVOA\_W  
ClientSampleId :  
A46Q7

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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.      | EstConc                 | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------|--------|------------------|---------|-------------|------|
| 12.495    | 1.81 ug/L               | 167882 | Chlorobenzene-d5 |         | 11.629      |      |
| Hit# of 5 | Tentative ID            |        | MW               | MolForm | CAS#        | Qual |
| 1         | Undecane, 5,6-dimethyl- |        | 184              | C13H28  | 017615-91-7 | 78   |
| 2         | Octane, 4-ethyl-        |        | 142              | C10H22  | 015869-86-0 | 50   |
| 3         | Hexane, 3-ethyl-        |        | 114              | C8H18   | 000619-99-8 | 46   |
| 4         | Nonane                  |        | 128              | C9H20   | 000111-84-2 | 43   |
| 5         | 2,6-Dimethyldecane      |        | 170              | C12H26  | 013150-81-7 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

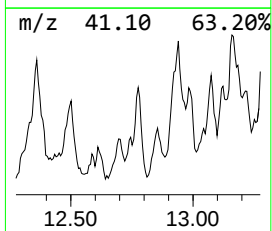
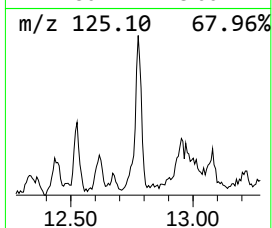
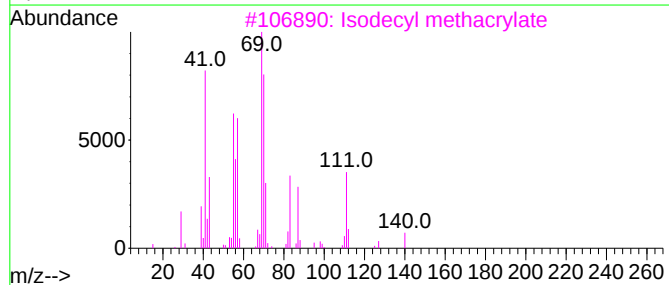
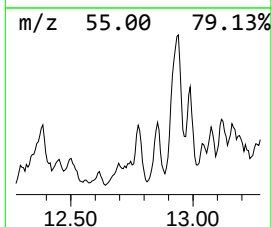
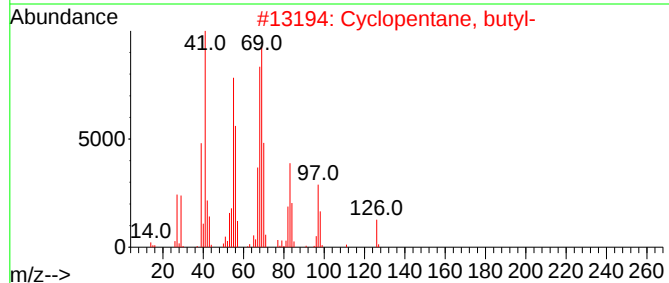
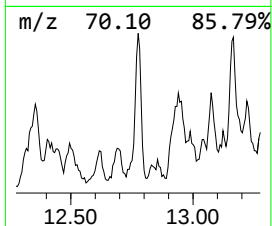
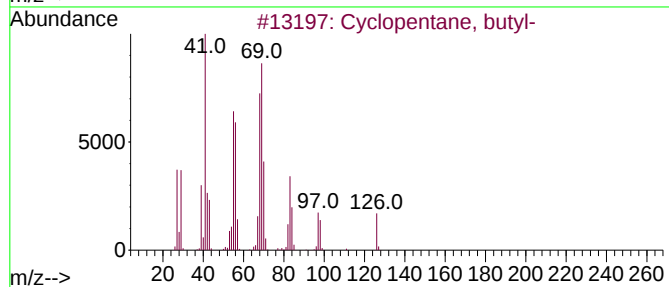
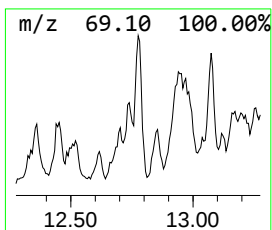
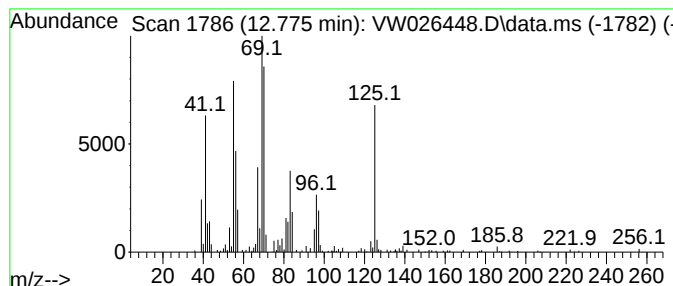
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Cyclic12.775 Concentration Rank 19

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.775 | 3.21 ug/L | 200020 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------|-----|----------|-------------|------|
| 1    |    |   | Cyclopentane, butyl-          | 126 | C9H18    | 002040-95-1 | 55   |
| 2    |    |   | Cyclopentane, butyl-          | 126 | C9H18    | 002040-95-1 | 47   |
| 3    |    |   | Isodecyl methacrylate         | 226 | C14H26O2 | 029964-84-9 | 47   |
| 4    |    |   | 5-Undecene, 9-methyl-, (Z)-   | 168 | C12H24   | 074630-65-2 | 38   |
| 5    |    |   | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18    | 002234-75-5 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

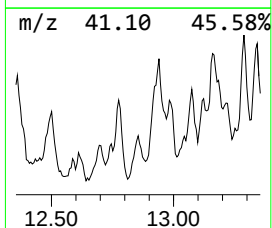
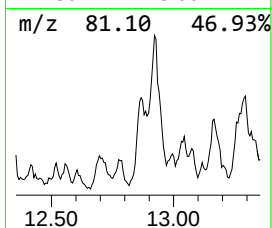
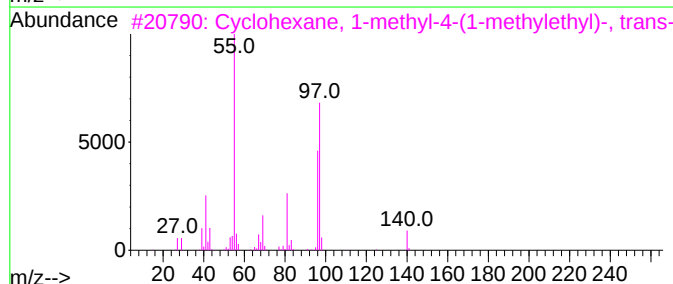
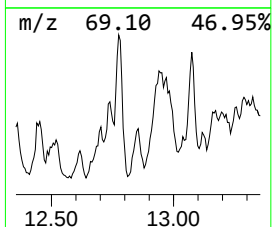
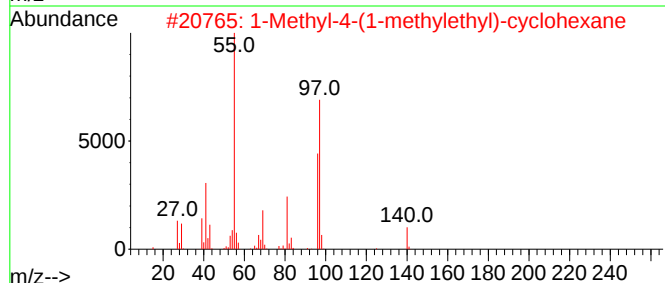
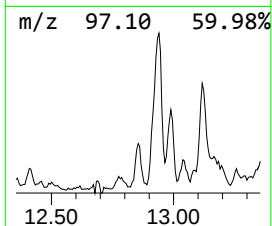
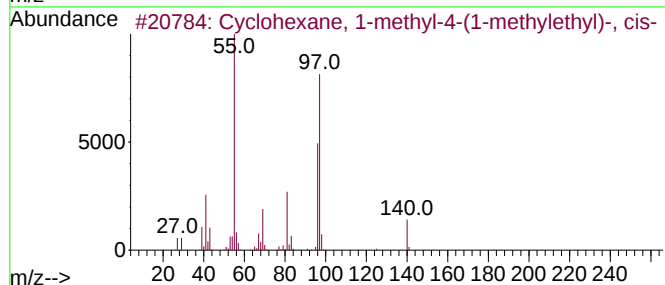
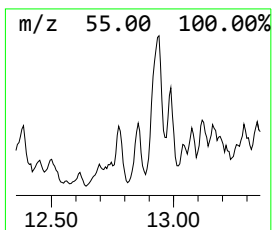
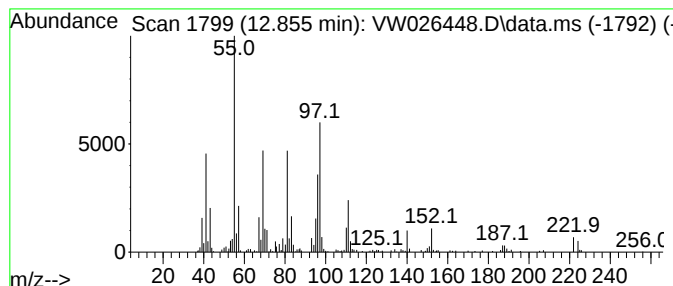
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Quant Title : SFAM01.0

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

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Peak Number 8 (DEL) Alkane: Cyclic12.855 Concentration Rank 20

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.855 | 2.72 ug/L | 169106 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 60   |
| 2    |    |   | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20  | 000099-82-1 | 60   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 60   |
| 4    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3 | 53   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

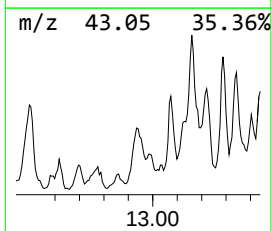
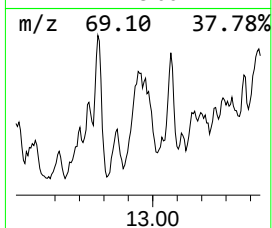
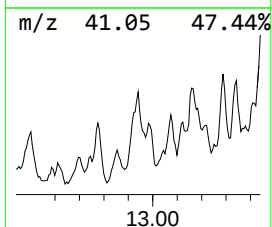
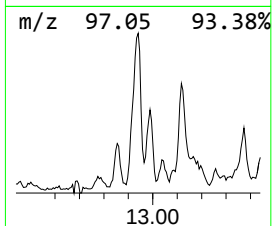
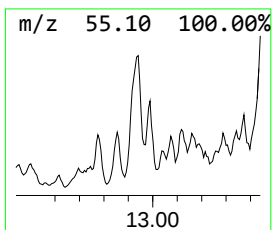
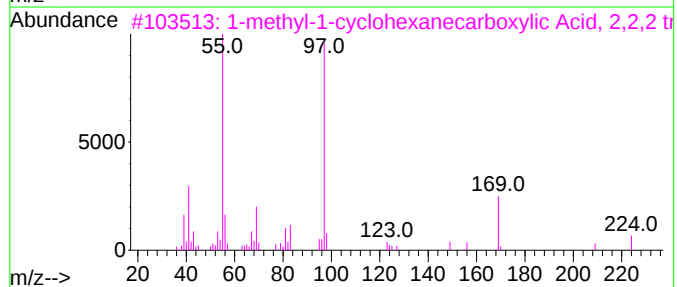
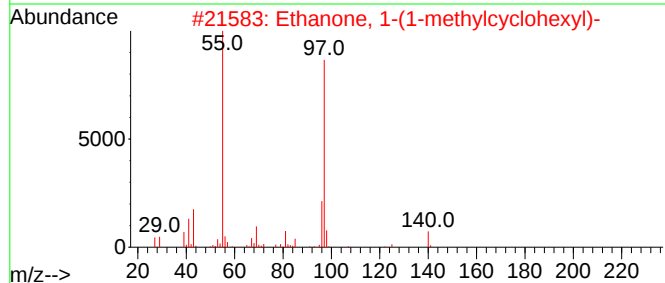
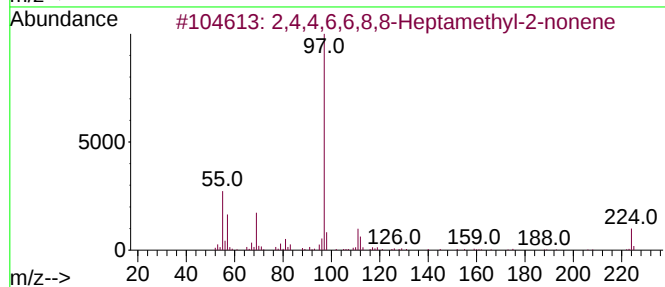
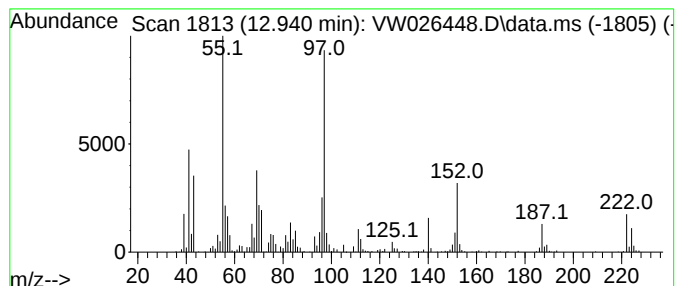
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Quant Title : SFAM01.0

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

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Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.940 | 9.04 ug/L | 562500 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|------|-------------------------------------|-----|------------|--------------|------|
| 1    |      | 2,4,4,6,6,8,8-Heptamethyl-2-nonene  | 224 | C16H32     | 039761-73-4  | 49   |
| 2    |      | Ethanone, 1-(1-methylcyclohexyl)-   | 140 | C9H16O     | 002890-62-2  | 49   |
| 3    |      | 1-methyl-1-cyclohexanecarboxylic... | 224 | C10H15F3O2 | 1000376-54-0 | 46   |
| 4    |      | Decahydrobenzopyran                 | 140 | C9H16O     | 1000429-74-9 | 43   |
| 5    |      | Oxalic acid, butyl cyclohexylmet... | 242 | C13H22O4   | 1000309-68-2 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

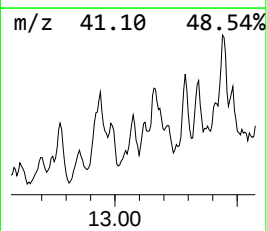
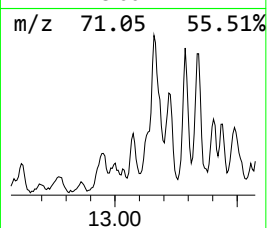
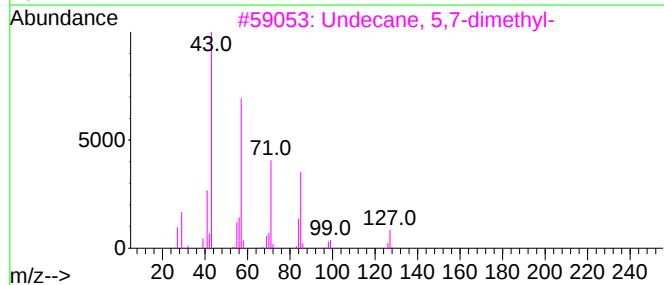
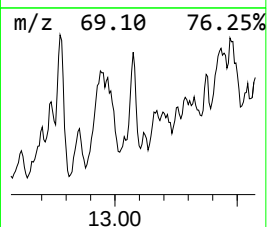
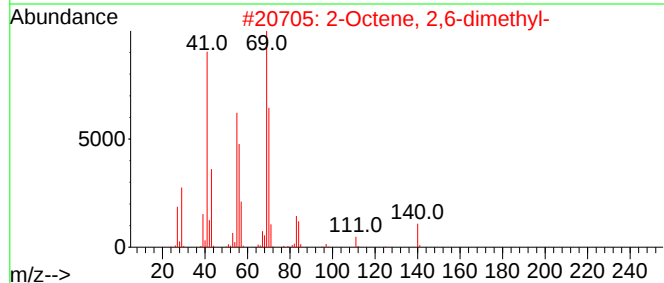
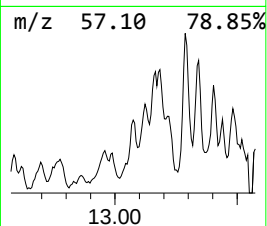
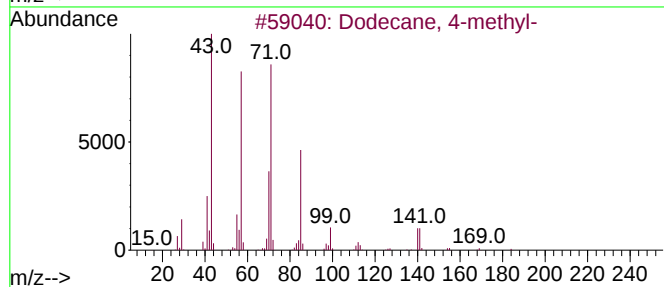
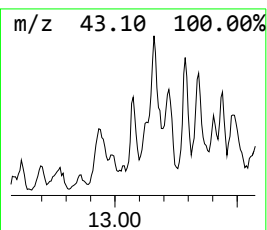
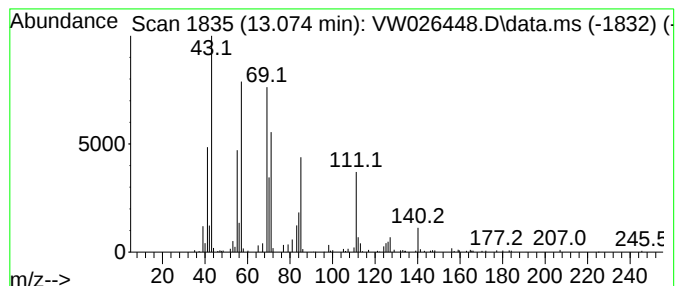
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.074 | 1.58 ug/L | 98093 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|------|---------------------------------|-----|---------|--------------|------|
| 1    |      | Dodecane, 4-methyl-             | 184 | C13H28  | 006117-97-1  | 46   |
| 2    |      | 2-Octene, 2,6-dimethyl-         | 140 | C10H20  | 004057-42-5  | 43   |
| 3    |      | Undecane, 5,7-dimethyl-         | 184 | C13H28  | 017312-83-3  | 38   |
| 4    |      | 1-Hexene, 3,3-dimethyl-         | 112 | C8H16   | 003404-77-1  | 38   |
| 5    |      | 2-Hexene, 4-ethyl-2,3-dimethyl- | 140 | C10H20  | 1000149-19-7 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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Quant Title : SFAM01.0

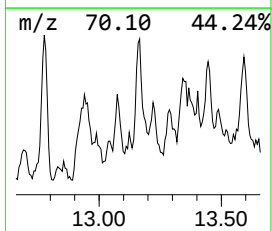
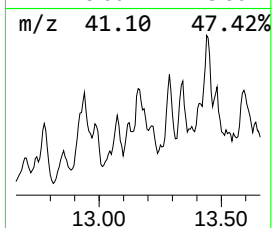
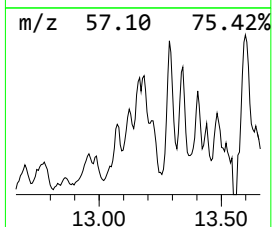
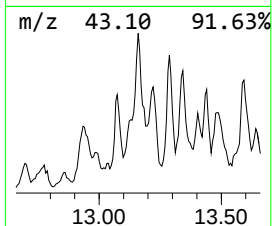
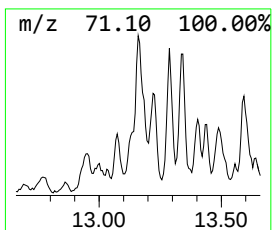
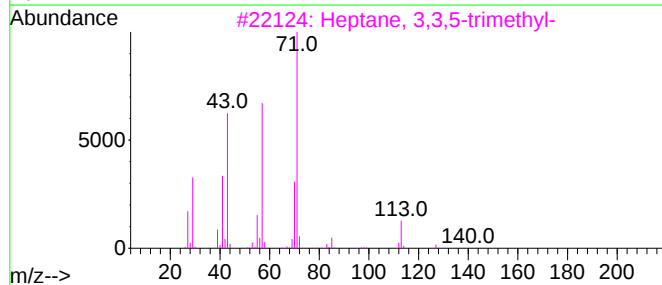
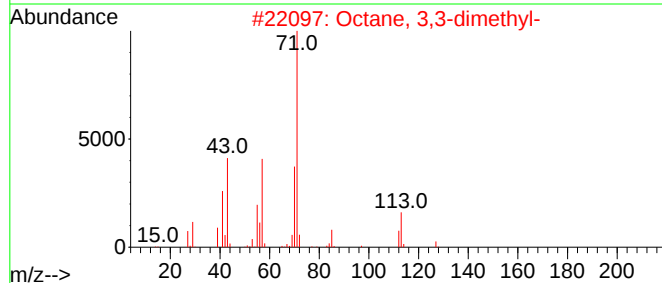
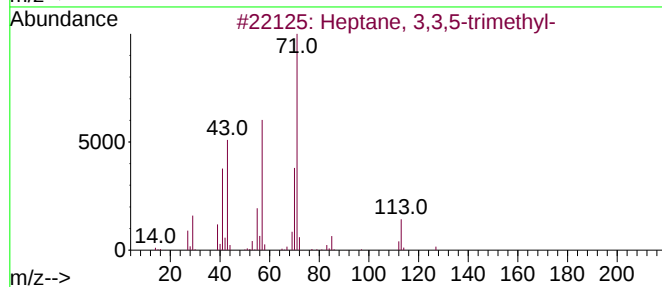
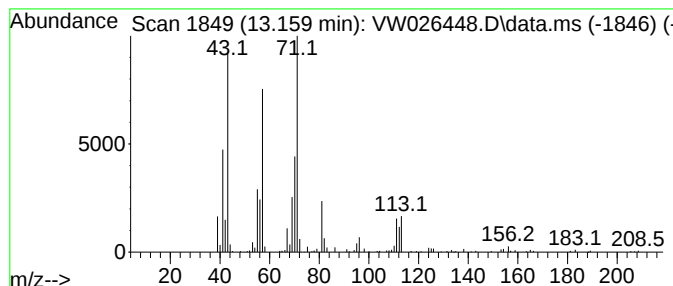
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.160 | 2.29 ug/L | 142574 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|------|---------------------------|-----|---------|-------------|------|
| 1    |      | Heptane, 3,3,5-trimethyl- | 142 | C10H22  | 007154-80-5 | 64   |
| 2    |      | Octane, 3,3-dimethyl-     | 142 | C10H22  | 004110-44-5 | 64   |
| 3    |      | Heptane, 3,3,5-trimethyl- | 142 | C10H22  | 007154-80-5 | 59   |
| 4    |      | Decane, 3,3,8-trimethyl-  | 184 | C13H28  | 062338-16-3 | 59   |
| 5    |      | Decane, 3,3,5-trimethyl-  | 184 | C13H28  | 062338-13-0 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

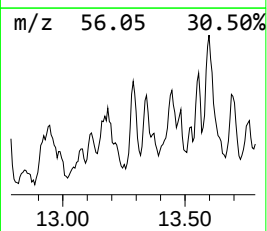
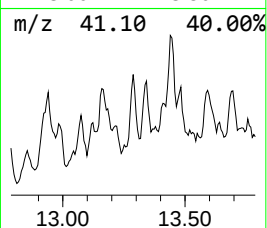
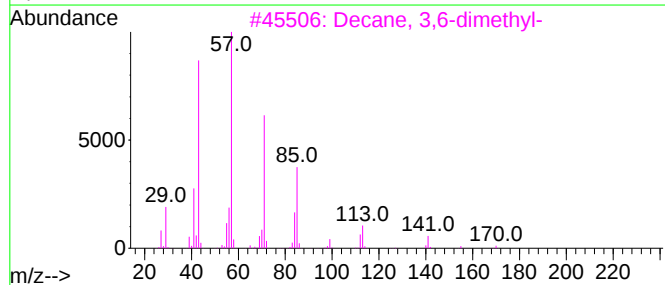
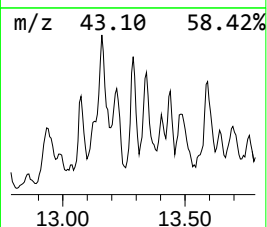
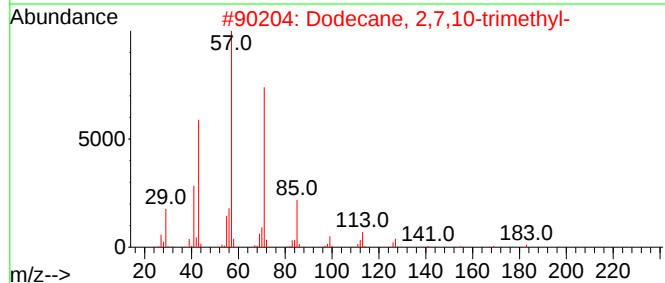
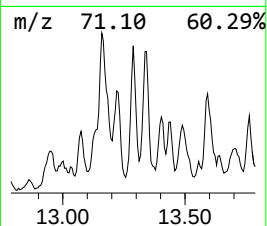
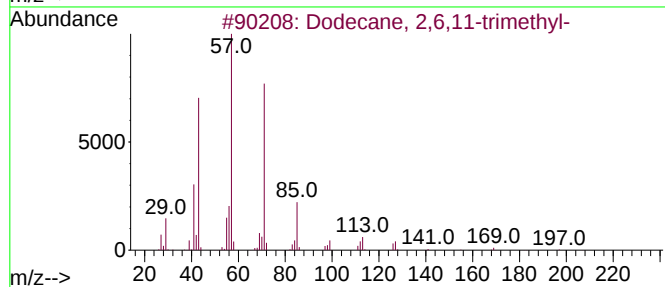
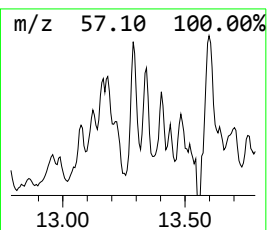
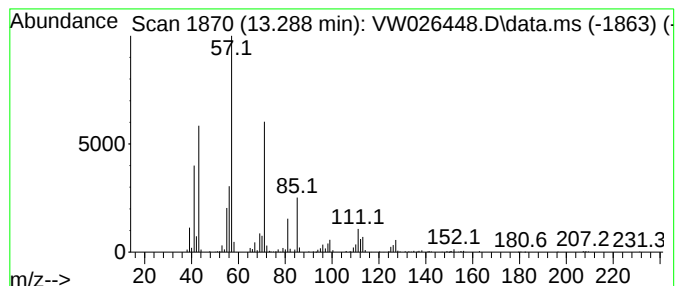
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.288 | 3.54 ug/L | 220433 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------------|-----|---------|-------------|------|
| 1    |      | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 72   |
| 2    |      | Dodecane, 2,7,10-trimethyl- | 212 | C15H32  | 074645-98-0 | 72   |
| 3    |      | Decane, 3,6-dimethyl-       | 170 | C12H26  | 017312-53-7 | 53   |
| 4    |      | Decane, 2-methyl-           | 156 | C11H24  | 006975-98-0 | 52   |
| 5    |      | Undecane, 5-methyl-         | 170 | C12H26  | 001632-70-8 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

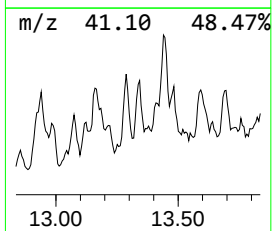
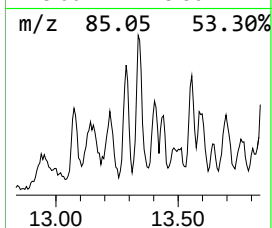
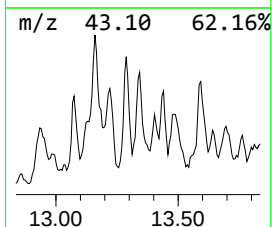
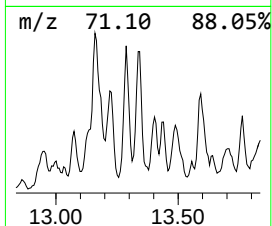
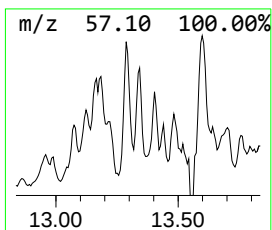
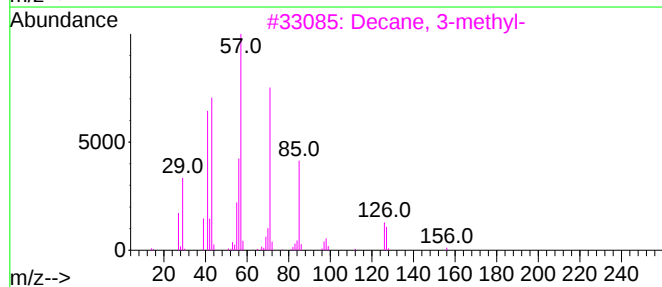
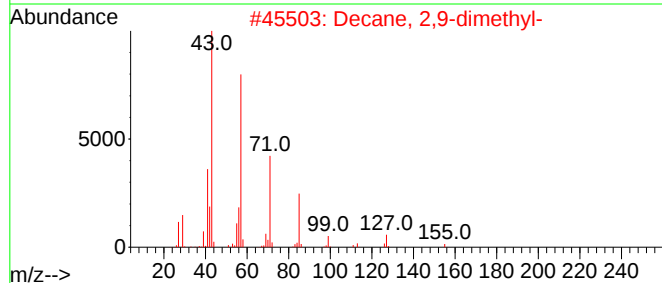
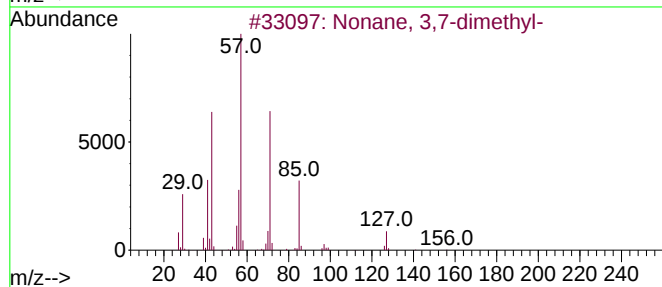
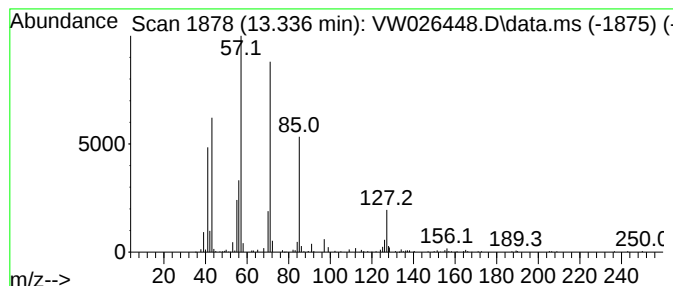
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

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

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T.      | EstConc                   | Area   | Relative to ISTD       |         | R.T.        |      |
|-----------|---------------------------|--------|------------------------|---------|-------------|------|
| 13.336    | 1.90 ug/L                 | 118081 | 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 | 78   |
| 2         | Decane, 2,9-dimethyl-     |        | 170                    | C12H26  | 001002-17-1 | 72   |
| 3         | Decane, 3-methyl-         |        | 156                    | C11H24  | 013151-34-3 | 72   |
| 4         | Octane, 6-ethyl-2-methyl- |        | 156                    | C11H24  | 062016-19-7 | 59   |
| 5         | Nonane, 1-iodo-           |        | 254                    | C9H19I  | 004282-42-2 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

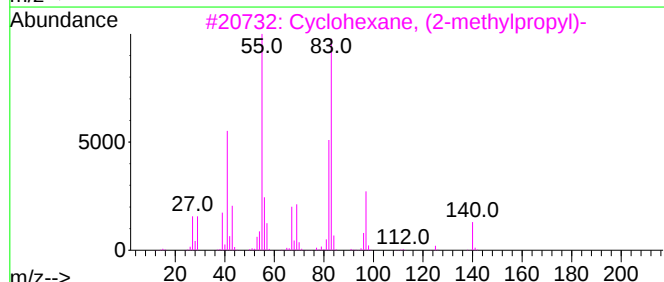
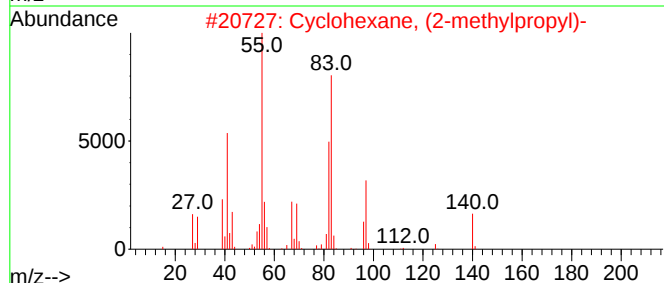
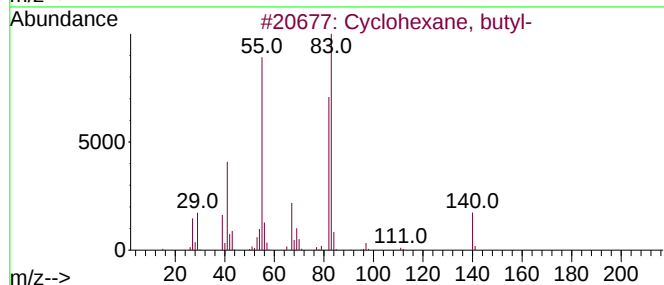
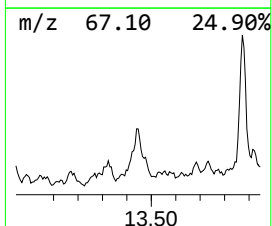
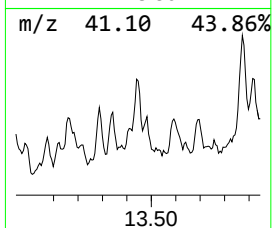
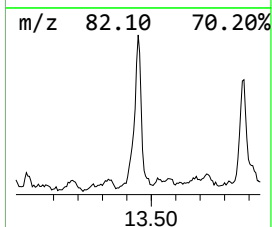
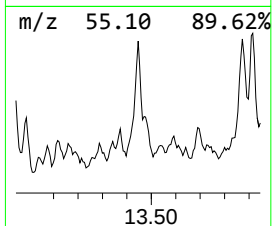
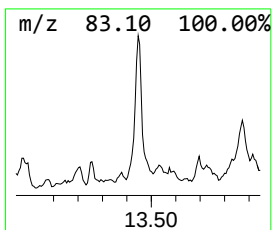
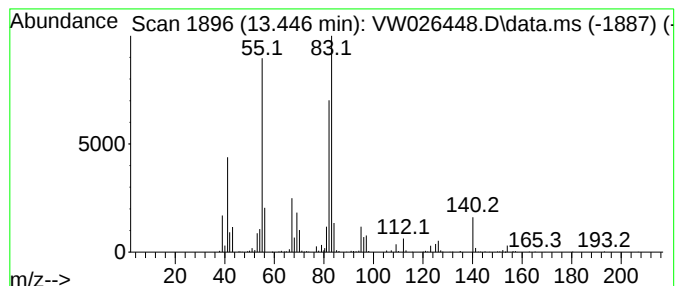
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Quant Title : SFAM01.0

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

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Peak Number 14 (DEL) Alkane: Cyclic13.446 Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.446 | 5.72 ug/L | 356006 | 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, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 86   |
| 3    |      | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 86   |
| 4    |      | Cyclohexanone, 2,3-dimethyl-   | 126 | C8H14O  | 013395-76-1 | 83   |
| 5    |      | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 81   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

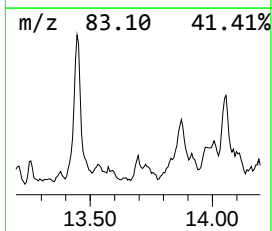
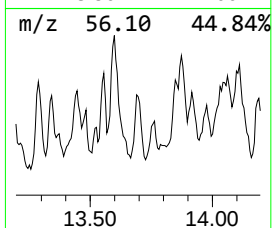
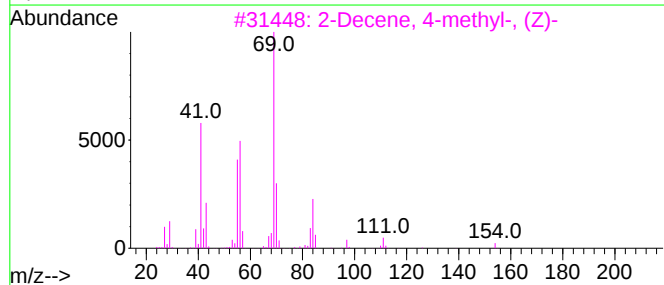
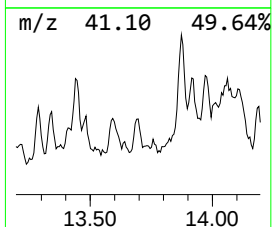
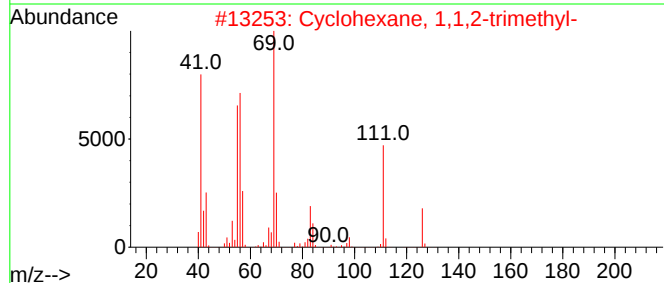
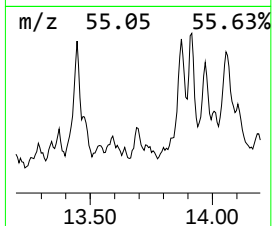
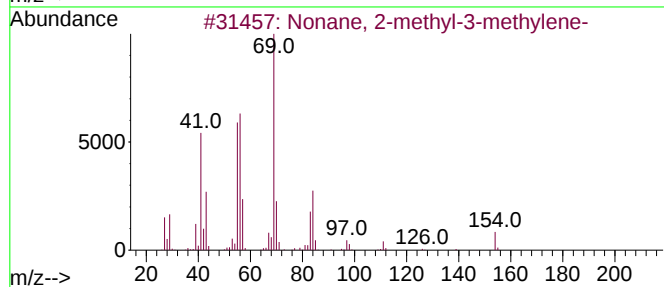
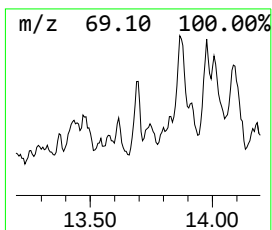
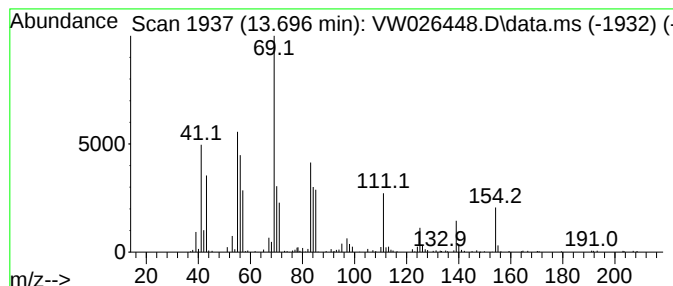
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TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.696 | 2.27 ug/L | 141418 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------------|-----|---------|-------------|------|
| 1    |      | Nonane, 2-methyl-3-methylene-      | 154 | C11H22  | 055499-08-6 | 50   |
| 2    |      | Cyclohexane, 1,1,2-trimethyl-      | 126 | C9H18   | 007094-26-0 | 49   |
| 3    |      | 2-Decene, 4-methyl-, (Z)-          | 154 | C11H22  | 074630-30-1 | 43   |
| 4    |      | Cyclooctane, methyl-               | 126 | C9H18   | 001502-38-1 | 43   |
| 5    |      | Cyclohexane, 1,2-diethyl-1-methyl- | 154 | C11H22  | 061141-79-5 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

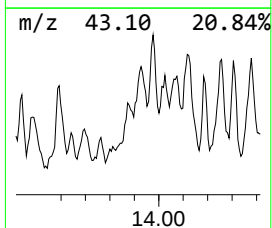
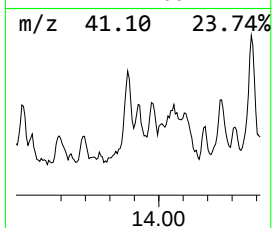
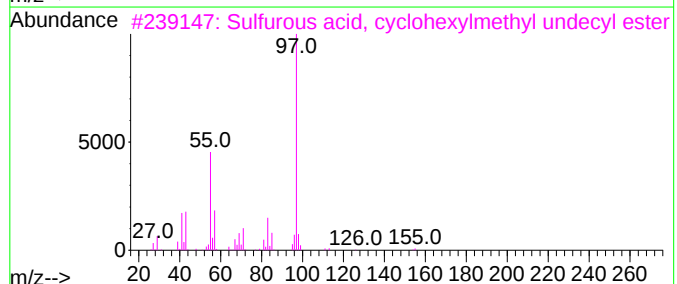
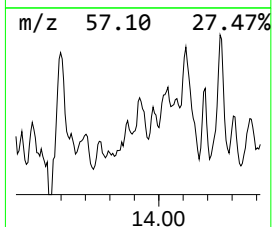
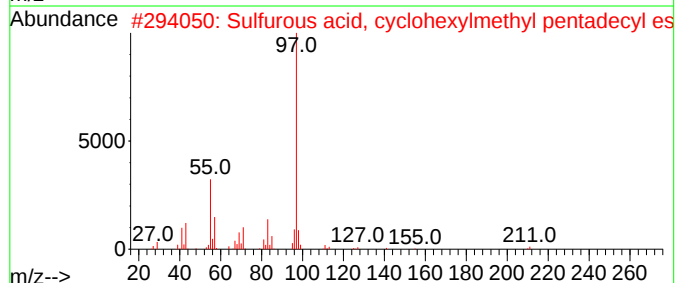
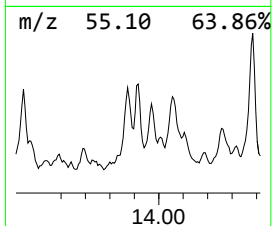
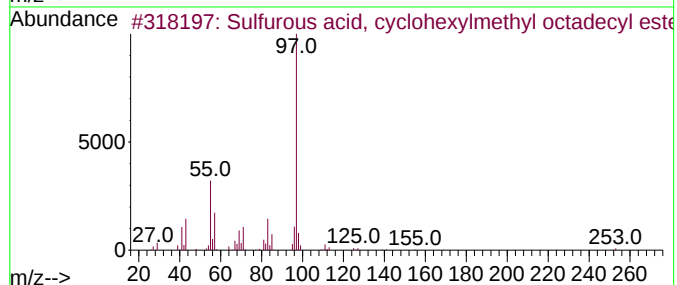
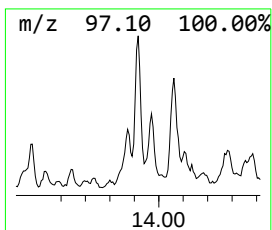
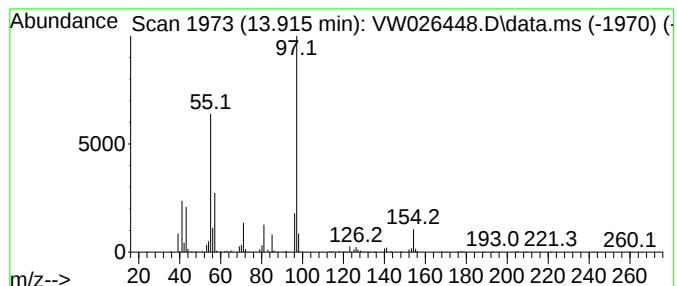
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Sulfurous acid, cyclohexylm... Concentration Rank 15

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.916 | 3.74 ug/L | 232893 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, cyclohexylmethyl... | 430 | C25H50O3S | 1000309-22-6 | 72   |
| 2    |    |   | Sulfurous acid, cyclohexylmethyl... | 388 | C22H44O3S | 1000309-22-3 | 72   |
| 3    |    |   | Sulfurous acid, cyclohexylmethyl... | 332 | C18H36O3S | 1000309-21-9 | 72   |
| 4    |    |   | Sulfurous acid, cyclohexylmethyl... | 416 | C24H48O3S | 1000309-22-5 | 64   |
| 5    |    |   | Succinic acid, cyclohexylmethyl ... | 315 | C18H21NO4 | 1000389-81-4 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

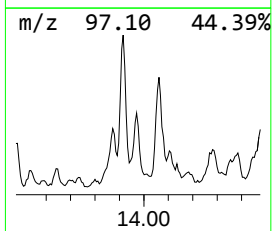
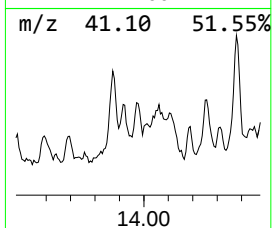
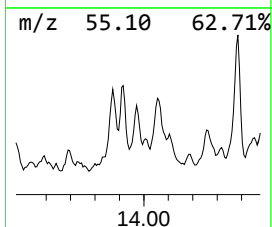
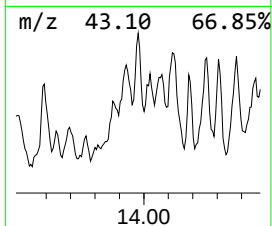
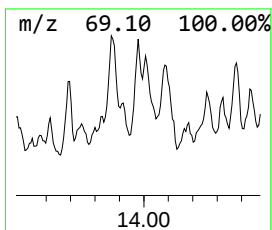
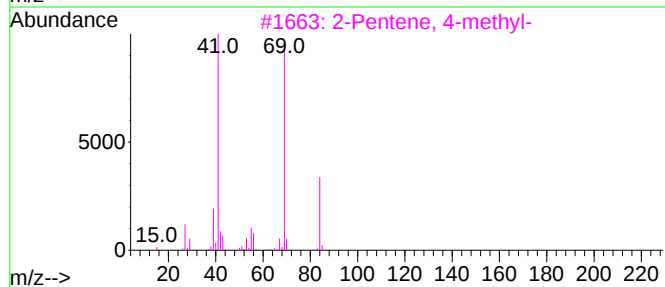
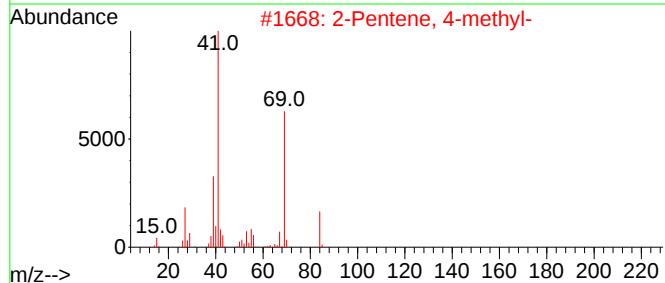
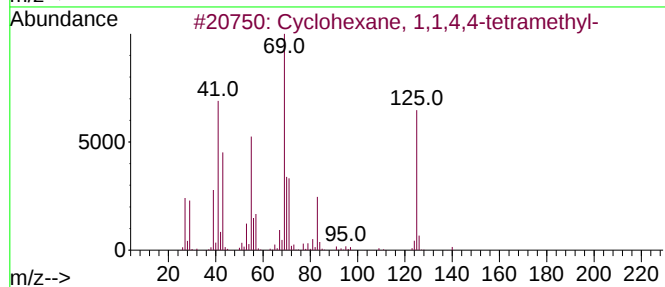
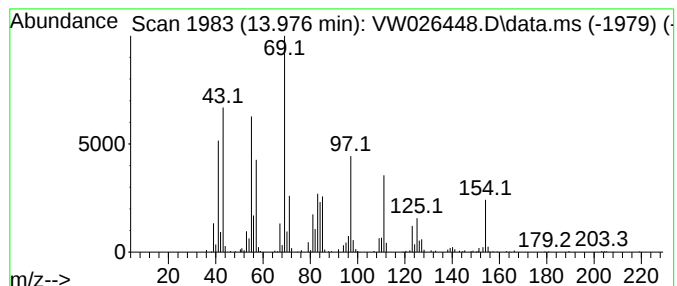
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Quant Title : SFAM01.0

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

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Peak Number 17 (DEL) Alkane: Cyclic13.976 Concentration Rank 21

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.976 | 2.69 ug/L | 167446 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 1,1,4,4-tetramethyl-   | 140 | C10H20  | 002223-52-1 | 38   |
| 2    |      | 2-Pentene, 4-methyl-                | 84  | C6H12   | 004461-48-7 | 30   |
| 3    |      | 2-Pentene, 4-methyl-                | 84  | C6H12   | 004461-48-7 | 30   |
| 4    |      | 2-Isopropyl-5-methylhex-2-enal      | 154 | C10H18O | 035158-25-9 | 30   |
| 5    |      | Cyclohexanone, 4-ethyl-3,4-dimet... | 154 | C10H18O | 017429-42-4 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

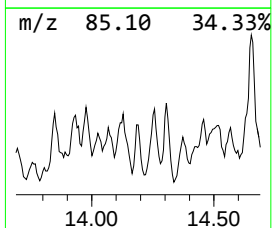
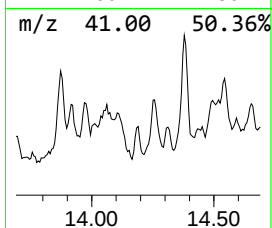
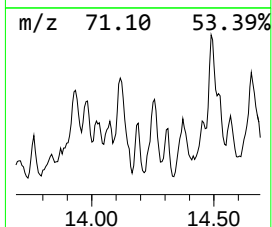
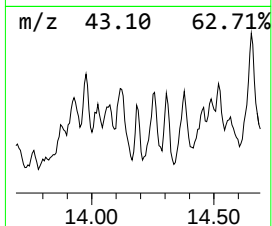
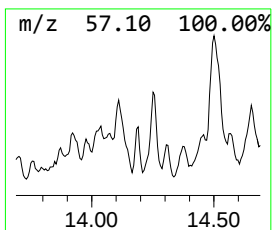
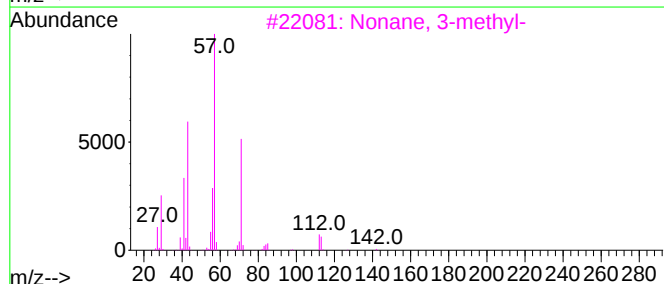
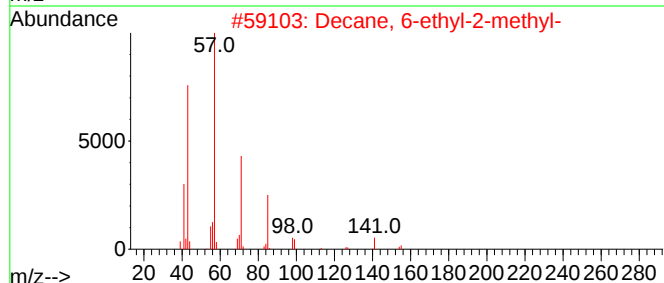
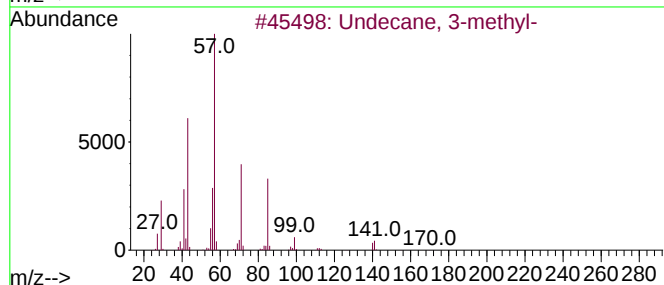
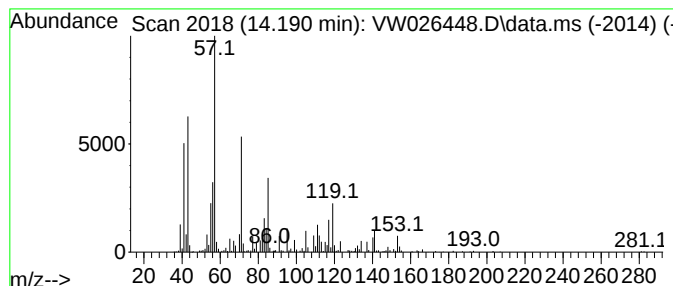
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

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

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

| R.T.      | EstConc                   | Area   | Relative to ISTD       |         |             | R.T.   |
|-----------|---------------------------|--------|------------------------|---------|-------------|--------|
| 14.190    | 3.22 ug/L                 | 200182 | 1,4-Dichlorobenzene-d4 |         |             | 13.556 |
| Hit# of 5 | Tentative ID              |        | MW                     | MolForm | CAS#        | Qual   |
| 1         | Undecane, 3-methyl-       |        | 170                    | C12H26  | 001002-43-3 | 49     |
| 2         | Decane, 6-ethyl-2-methyl- |        | 184                    | C13H28  | 062108-21-8 | 47     |
| 3         | Nonane, 3-methyl-         |        | 142                    | C10H22  | 005911-04-6 | 45     |
| 4         | Tritetracontane           |        | 605                    | C43H88  | 007098-21-7 | 43     |
| 5         | Octane, 2,6-dimethyl-     |        | 142                    | C10H22  | 002051-30-1 | 43     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

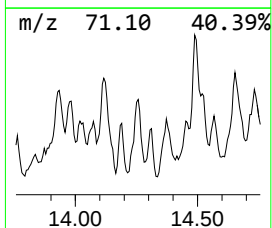
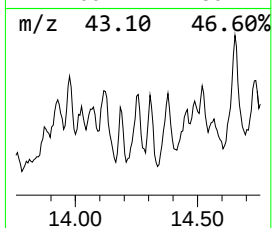
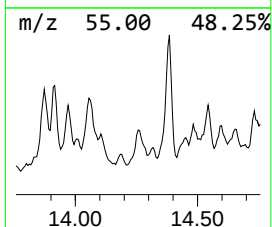
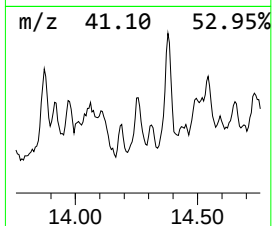
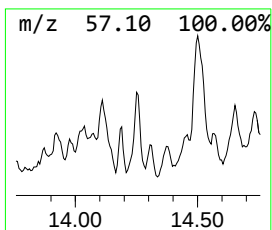
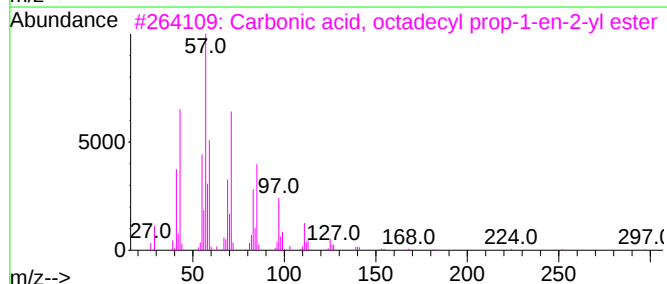
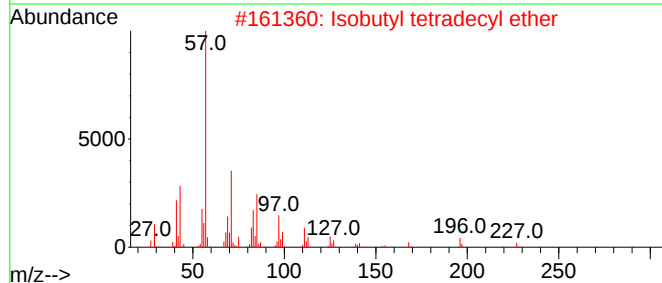
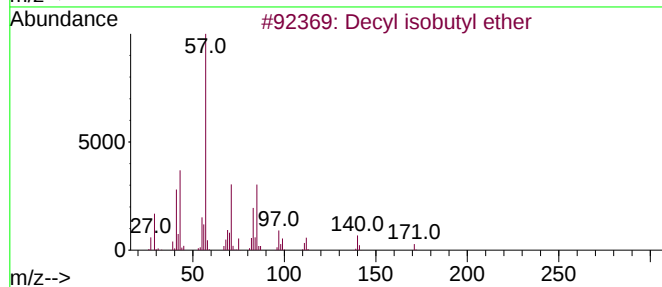
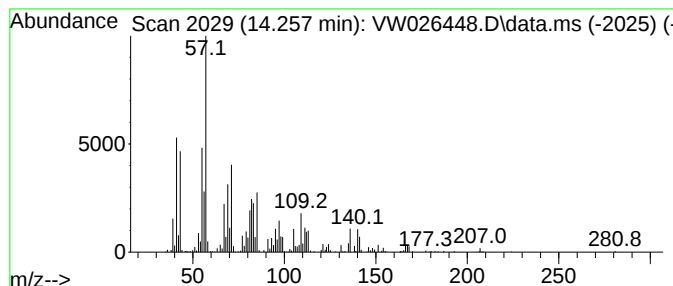
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Quant Title : SFAM01.0

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

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

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.257 | 4.52 ug/L | 281416 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Decyl isobutyl ether                | 214 | C14H30O  | 1010406-32-5 | 50   |
| 2    |    |   | Isobutyl tetradecyl ether           | 270 | C18H38O  | 1000406-32-7 | 50   |
| 3    |    |   | Carbonic acid, octadecyl prop-1-... | 354 | C22H42O3 | 1000383-11-5 | 47   |
| 4    |    |   | Carbonic acid, octadecyl vinyl e... | 340 | C21H40O3 | 1000382-54-4 | 43   |
| 5    |    |   | Octadecane, 1-chloro-               | 288 | C18H37Cl | 003386-33-2  | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

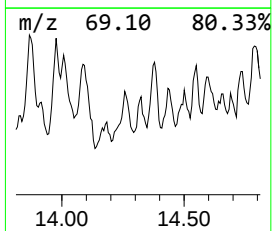
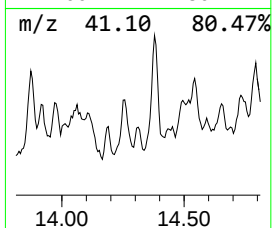
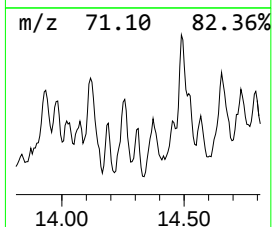
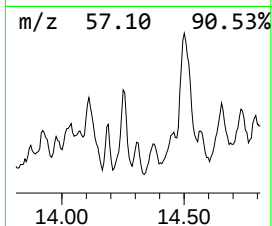
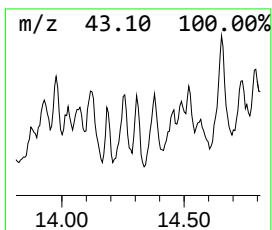
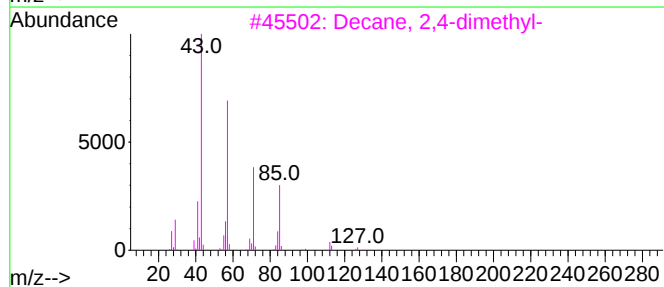
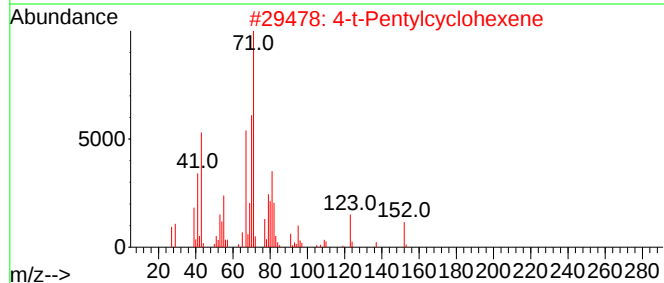
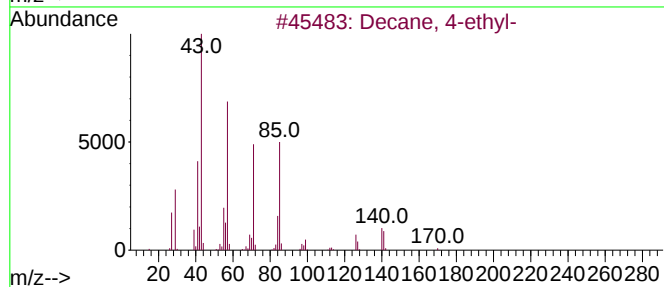
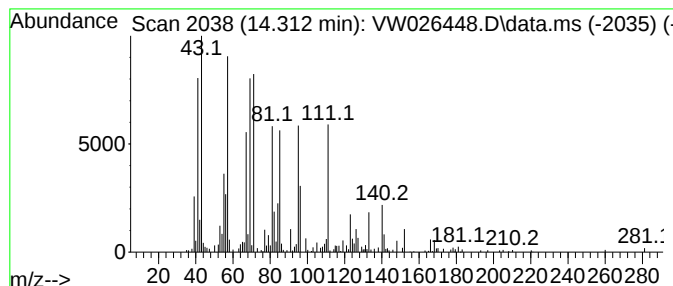
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.312 | 1.67 ug/L | 103682 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------|-----|---------|-------------|------|
| 1    |      | Decane, 4-ethyl-             | 170 | C12H26  | 001636-44-8 | 30   |
| 2    |      | 4-t-Pentylcyclohexene        | 152 | C11H20  | 051874-62-5 | 25   |
| 3    |      | Decane, 2,4-dimethyl-        | 170 | C12H26  | 002801-84-5 | 22   |
| 4    |      | Trans-1,4-diethylcyclohexane | 140 | C10H20  | 013990-93-7 | 22   |
| 5    |      | Undecane, 4,7-dimethyl-      | 184 | C13H28  | 017301-32-5 | 14   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

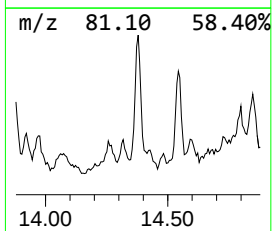
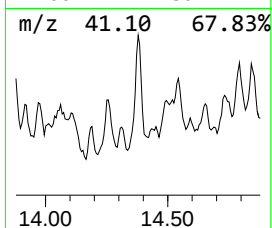
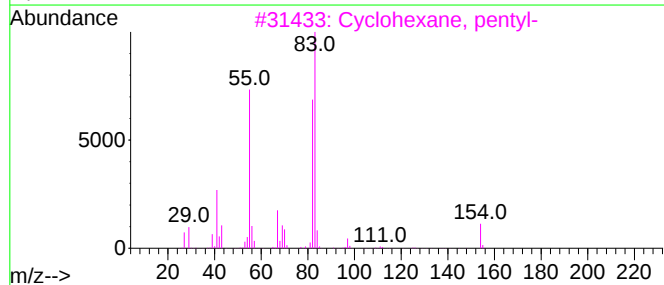
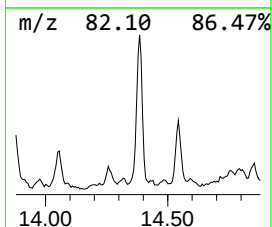
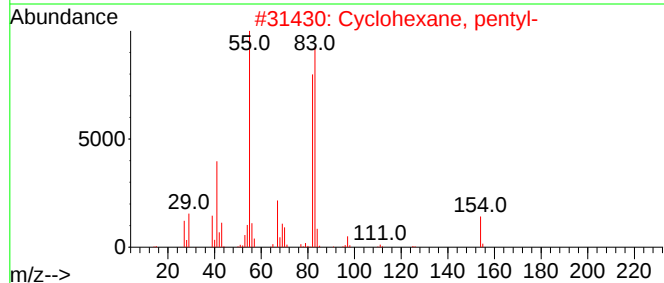
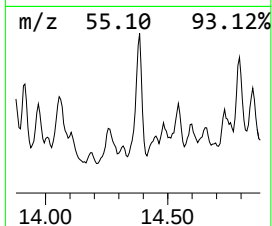
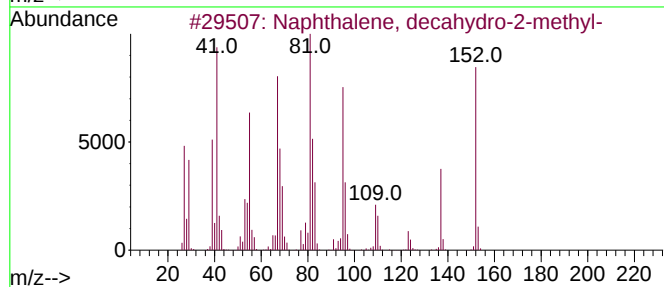
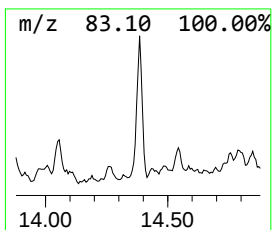
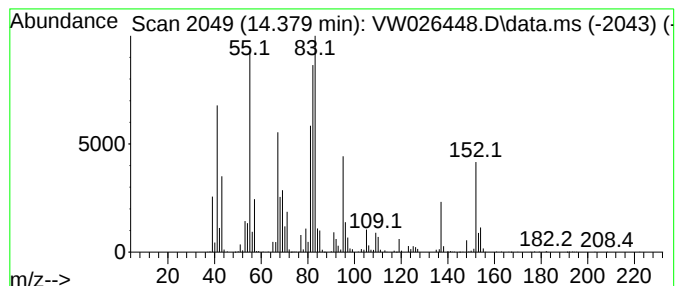
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

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

\*\*\*\*\*  
Peak Number 21 Naphthalene, decahydro-2-me... Concentration Rank 3

| R.T.      | EstConc                          | Area   | Relative to ISTD       |         |             | R.T.   |
|-----------|----------------------------------|--------|------------------------|---------|-------------|--------|
| 14.379    | 12.30 ug/L                       | 765194 | 1,4-Dichlorobenzene-d4 |         |             | 13.556 |
| Hit# of 5 | Tentative ID                     |        | MW                     | MolForm | CAS#        | Qual   |
| 1         | Naphthalene, decahydro-2-methyl- |        | 152                    | C11H20  | 002958-76-1 | 86     |
| 2         | Cyclohexane, pentyl-             |        | 154                    | C11H22  | 004292-92-6 | 55     |
| 3         | Cyclohexane, pentyl-             |        | 154                    | C11H22  | 004292-92-6 | 55     |
| 4         | Cyclohexane, pentyl-             |        | 154                    | C11H22  | 004292-92-6 | 49     |
| 5         | Cyclohexane, (1-methylethyl)-    |        | 126                    | C9H18   | 000696-29-7 | 46     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

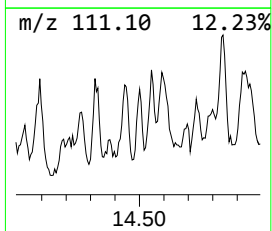
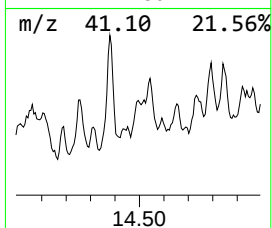
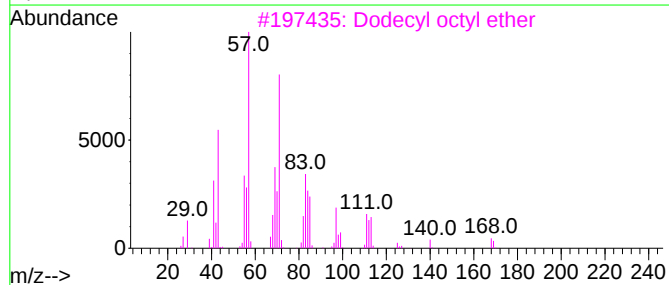
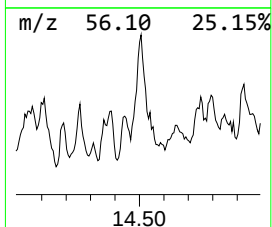
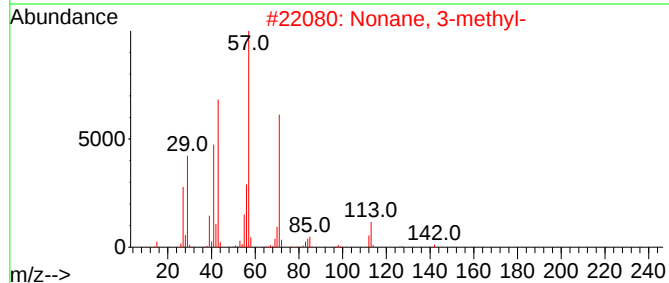
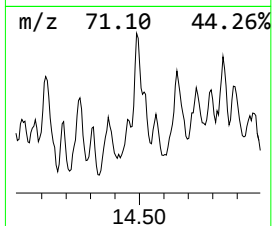
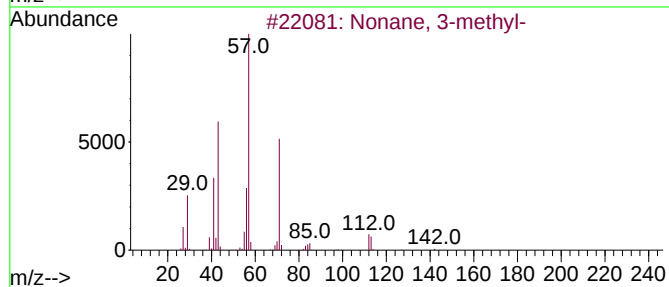
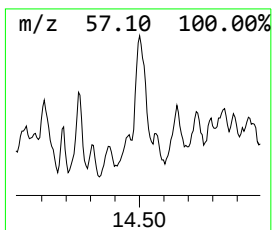
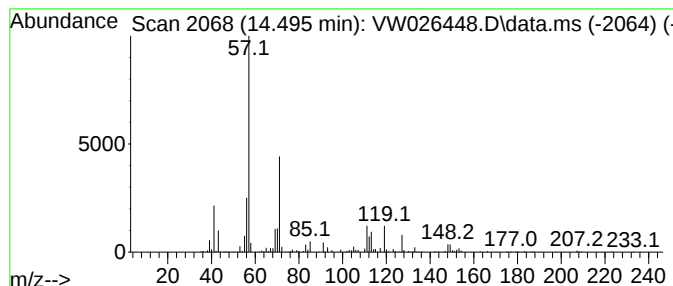
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.495 | 3.71 ug/L | 230777 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------|-----|---------|--------------|------|
| 1    |    |   | Nonane, 3-methyl-       | 142 | C10H22  | 005911-04-6  | 58   |
| 2    |    |   | Nonane, 3-methyl-       | 142 | C10H22  | 005911-04-6  | 53   |
| 3    |    |   | Dodecyl octyl ether     | 298 | C20H42O | 1000406-38-4 | 50   |
| 4    |    |   | Undecane, 2,6-dimethyl- | 184 | C13H28  | 017301-23-4  | 50   |
| 5    |    |   | Heneicosane             | 296 | C21H44  | 000629-94-7  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

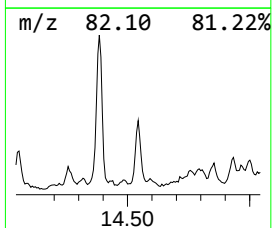
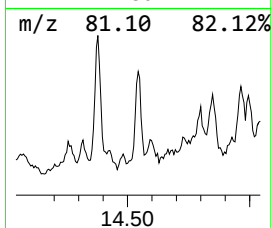
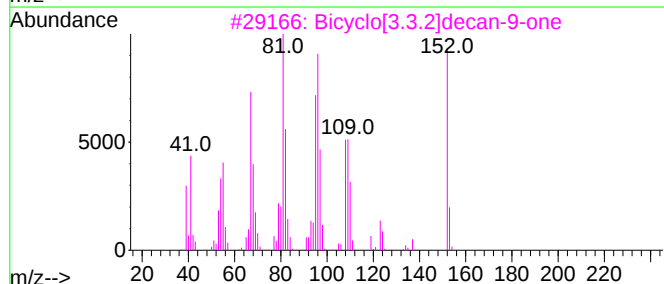
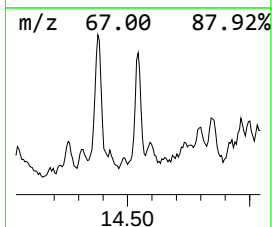
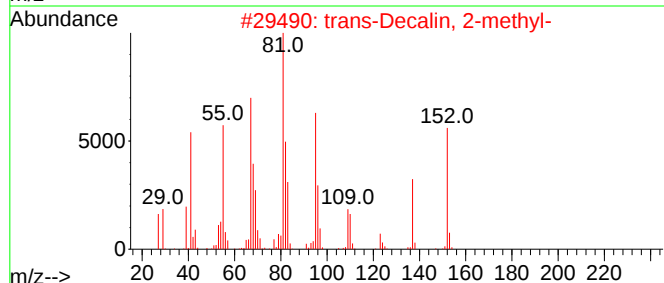
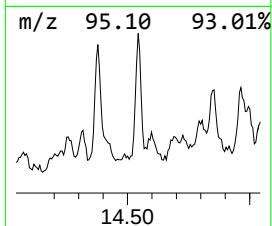
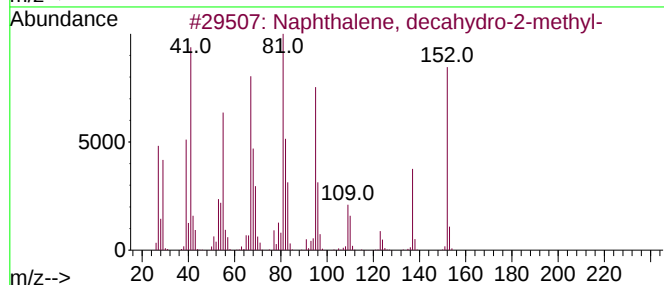
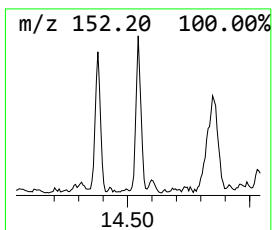
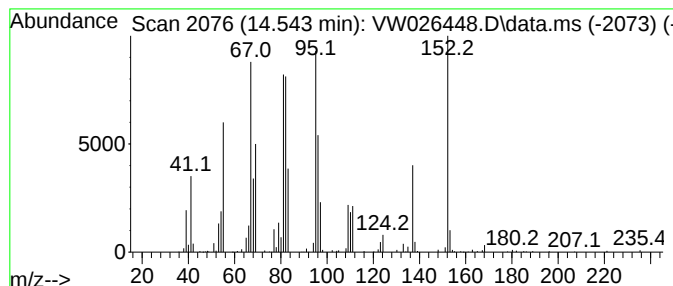
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 23 trans-Decalin, 2-methyl- Concentration Rank 11

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.543 | 4.82 ug/L | 300229 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 89   |
| 2    |    |   | trans-Decalin, 2-methyl-         | 152 | C11H20  | 1000152-47-3 | 64   |
| 3    |    |   | Bicyclo[3.3.2]decan-9-one        | 152 | C10H16O | 028054-91-3  | 58   |
| 4    |    |   | 1H-Indene, octahydro-            | 124 | C9H16   | 000496-10-6  | 55   |
| 5    |    |   | 1H-Indene, octahydro-, cis-      | 124 | C9H16   | 004551-51-3  | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

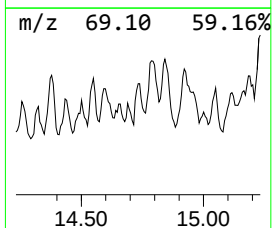
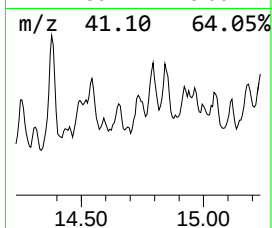
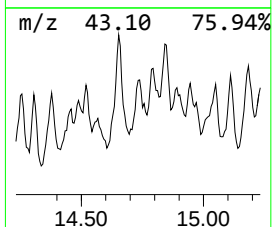
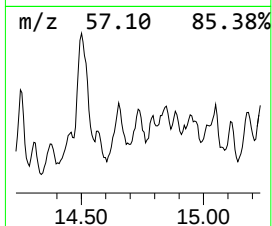
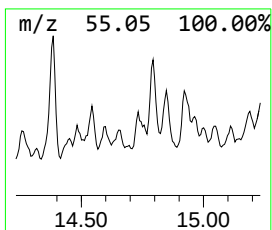
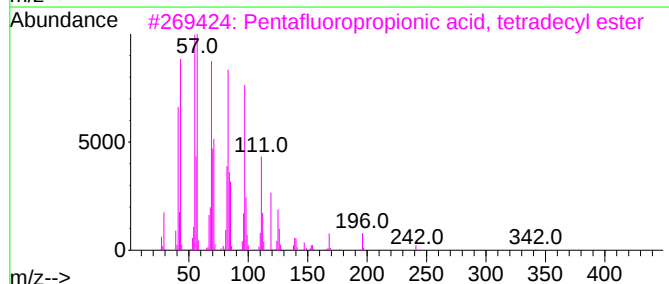
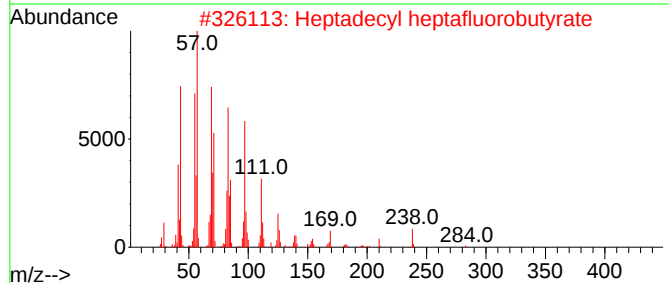
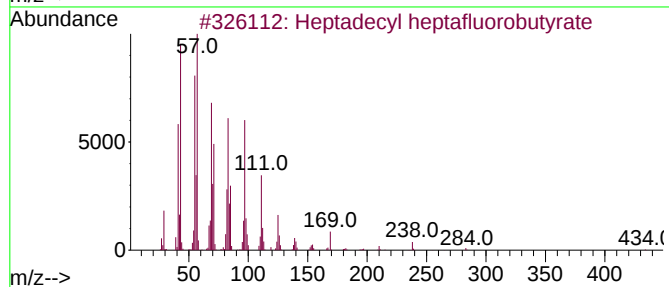
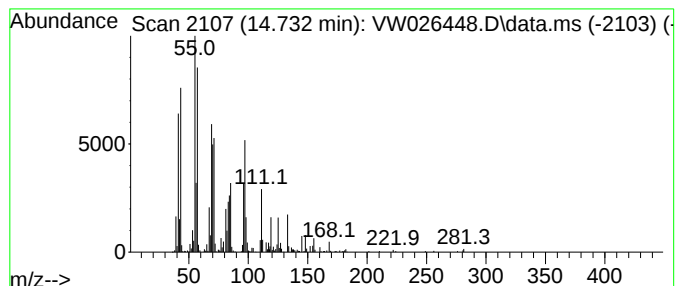
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 24 Heptadecyl heptafluorobutyrate Concentration Rank 13

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.732 | 4.23 ug/L | 263115 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6 | 64   |
| 2    |    |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6 | 64   |
| 3    |    |   | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2 | 006222-06-6 | 58   |
| 4    |    |   | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8 | 53   |
| 5    |    |   | Bromoacetic acid, hexadecyl ester   | 362 | C18H35BrO2 | 005454-48-8 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

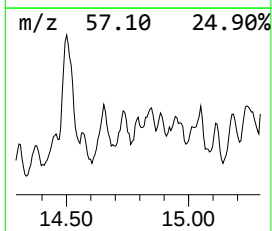
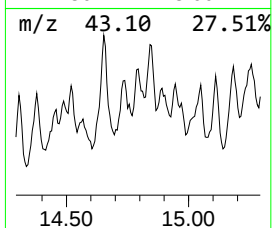
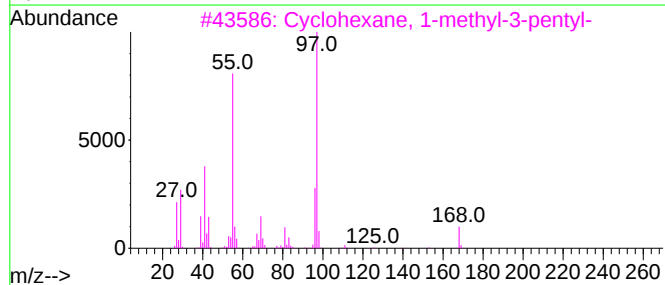
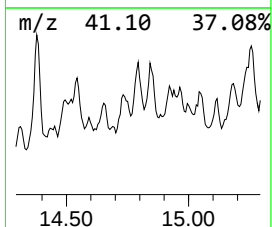
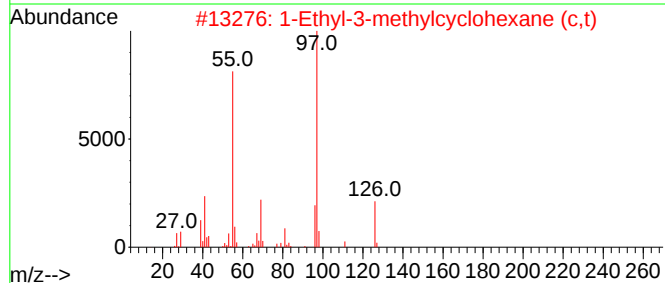
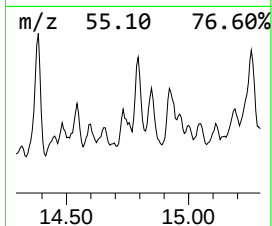
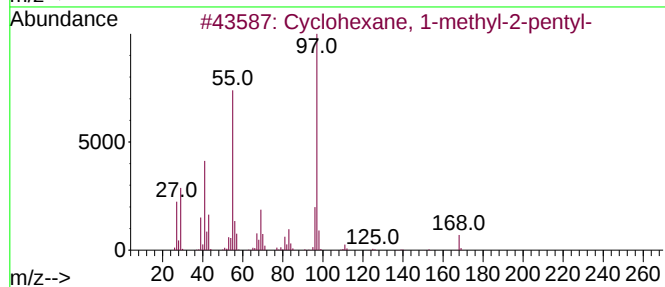
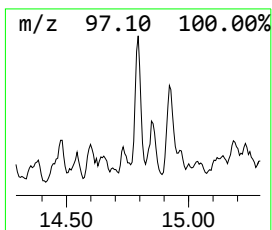
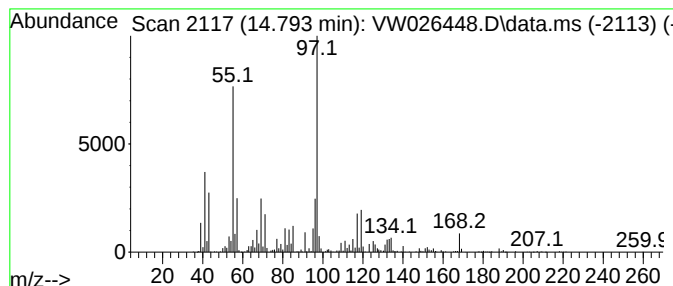
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Cyclic14.793 Concentration Rank 4

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.793 | 9.19 ug/L | 572125 | 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 | 62   |
| 2    |    |   | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18   | 003728-55-0 | 58   |
| 3    |    |   | Cyclohexane, 1-methyl-3-pentyl-   | 168 | C12H24  | 054411-02-8 | 58   |
| 4    |    |   | Cyclohexane, 1-methyl-2-pentyl-   | 168 | C12H24  | 054411-01-7 | 58   |
| 5    |    |   | cis-1-Ethyl-3-methyl-cyclohexane  | 126 | C9H18   | 019489-10-2 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

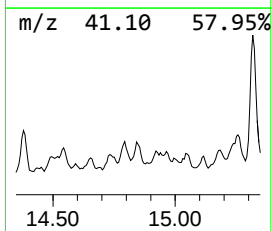
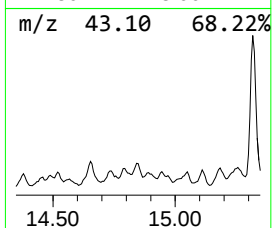
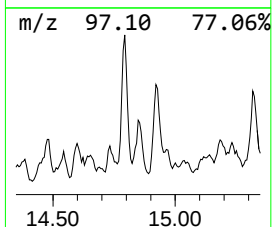
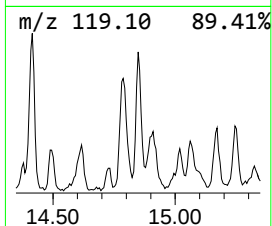
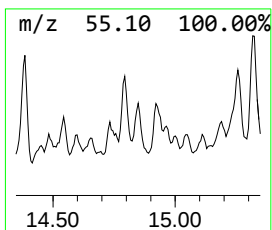
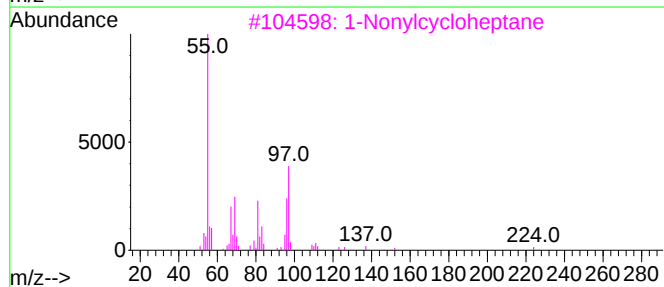
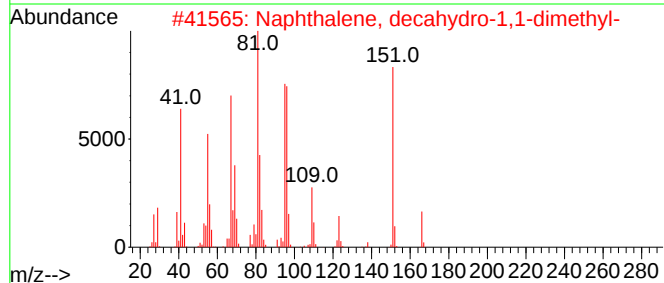
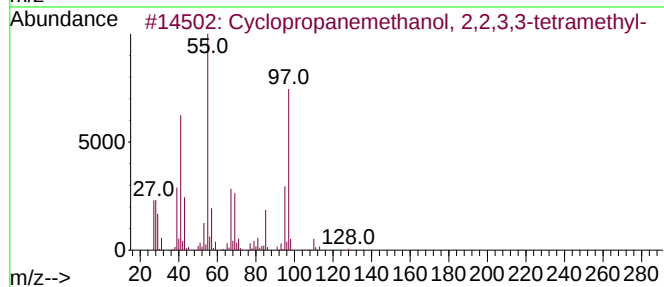
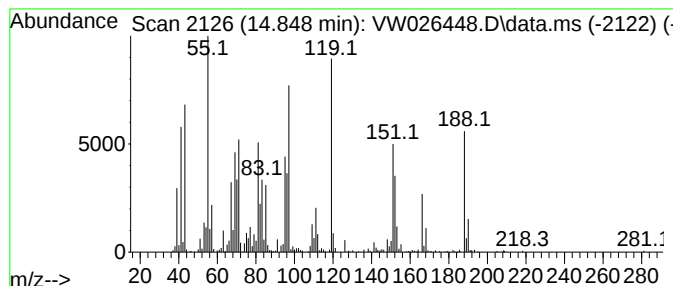
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 26 unknown-01 Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.848 | 8.87 ug/L | 551904 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclopropanemethanol, 2,2,3,3-te... | 128 | C8H16O  | 002415-96-5  | 25   |
| 2    |    |   | Naphthalene, decahydro-1,1-dimet... | 166 | C12H22  | 035431-04-0  | 18   |
| 3    |    |   | 1-Nonylcycloheptane                 | 224 | C16H32  | 1000371-47-7 | 14   |
| 4    |    |   | (5-Ethylcyclopent-1-enyl)methanol   | 126 | C8H14O  | 036431-59-1  | 14   |
| 5    |    |   | Cyclohexanemethanol, 4-methyl-, ... | 128 | C8H16O  | 003937-48-2  | 14   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

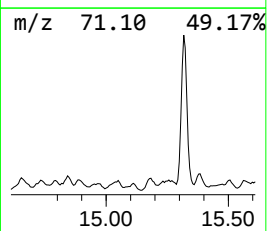
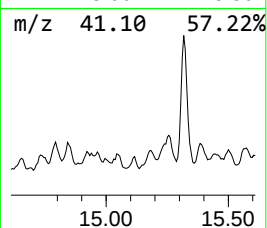
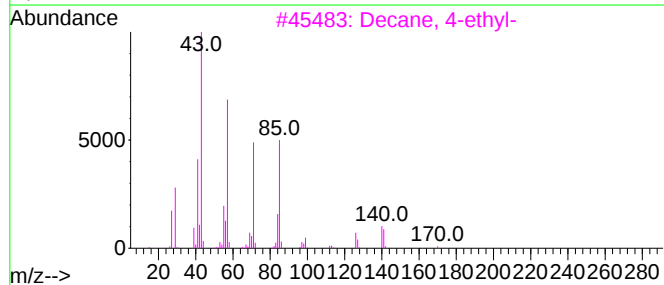
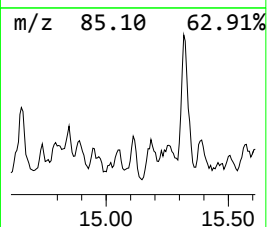
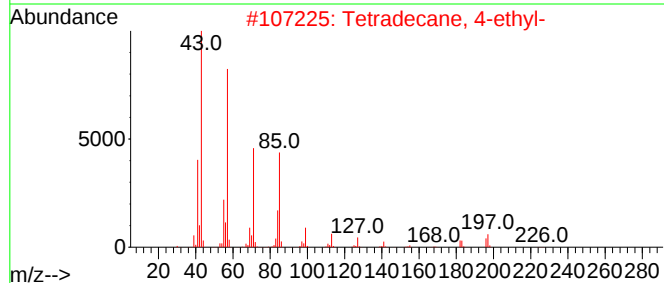
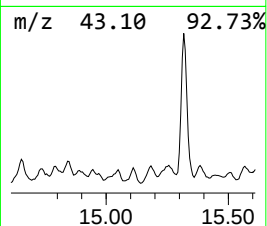
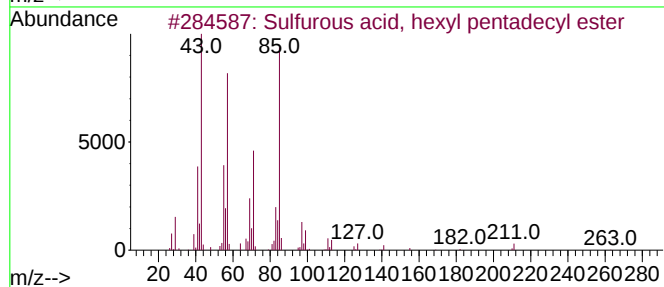
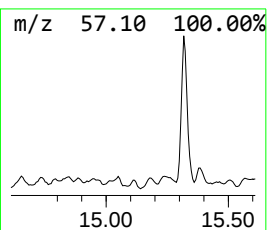
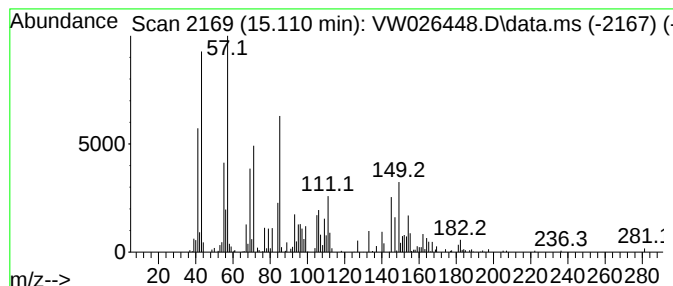
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Quant Title : SFAM01.0

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

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Peak Number 27 unknown-02 Concentration Rank 25

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.110 | 1.95 ug/L | 121542 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, hexyl pentadecyl... | 376 | C21H44O3S | 1000309-13-7 | 35   |
| 2    |    |   | Tetradecane, 4-ethyl-               | 226 | C16H34    | 055045-14-2  | 35   |
| 3    |    |   | Decane, 4-ethyl-                    | 170 | C12H26    | 001636-44-8  | 35   |
| 4    |    |   | Tetradecane, 5-methyl-              | 212 | C15H32    | 025117-32-2  | 27   |
| 5    |    |   | Sulfurous acid, decyl 2-propyl e... | 264 | C13H28O3S | 1000309-12-1 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

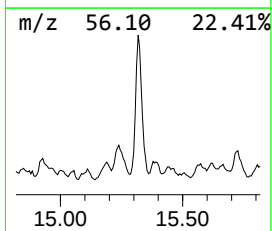
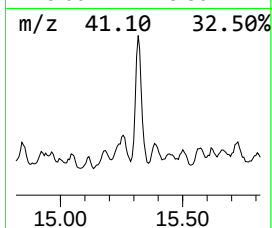
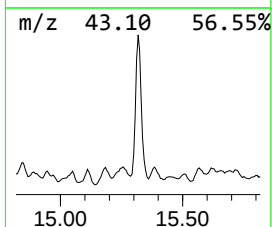
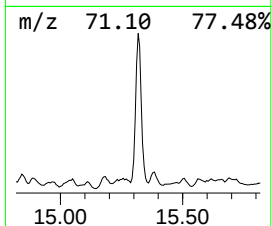
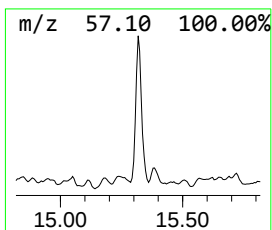
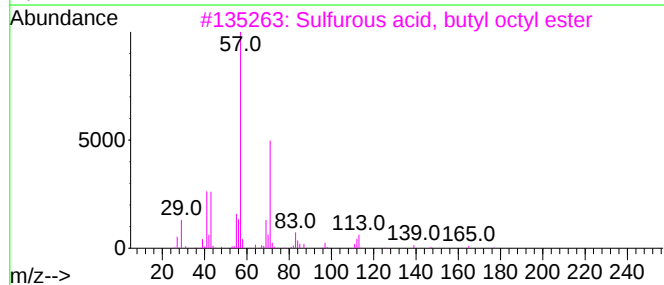
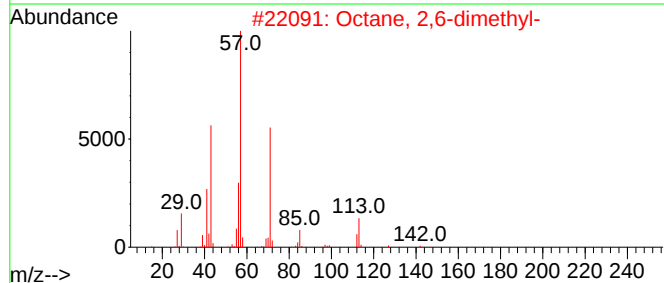
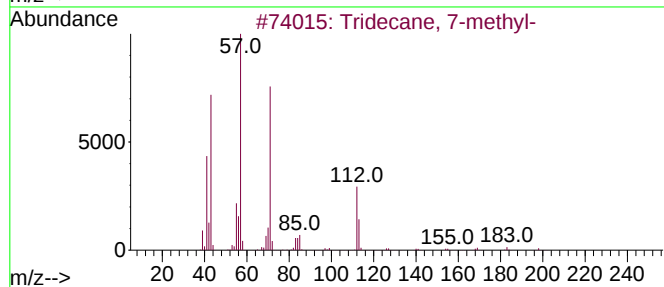
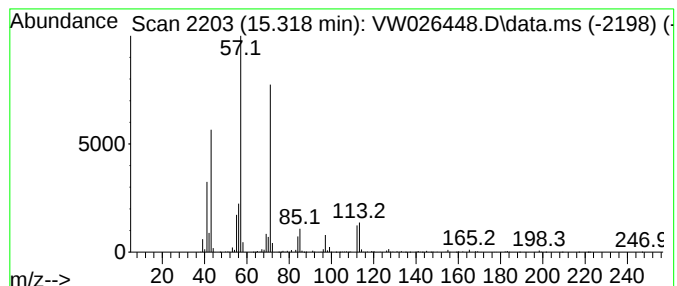
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.318 | 28.67 ug/L | 1784060 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|------|-----------------------------------|-----|-----------|--------------|------|
| 1    |      | Tridecane, 7-methyl-              | 198 | C14H30    | 026730-14-3  | 83   |
| 2    |      | Octane, 2,6-dimethyl-             | 142 | C10H22    | 002051-30-1  | 83   |
| 3    |      | Sulfurous acid, butyl octyl ester | 250 | C12H26O3S | 1000309-17-5 | 78   |
| 4    |      | Undecane, 4,5-dimethyl-           | 184 | C13H28    | 017312-79-7  | 72   |
| 5    |      | Dodecane, 4,6-dimethyl-           | 198 | C14H30    | 061141-72-8  | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

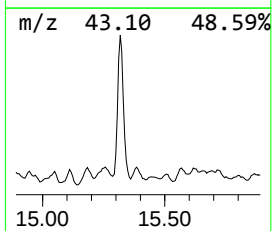
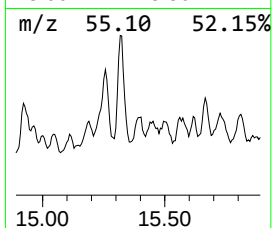
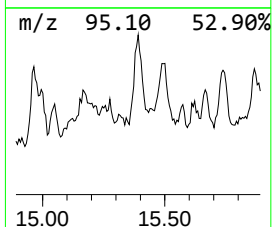
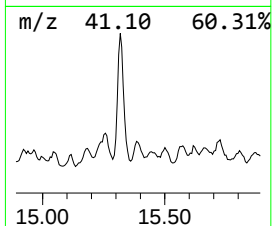
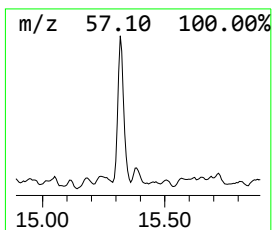
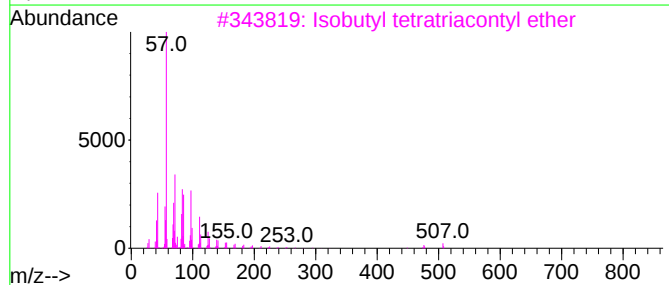
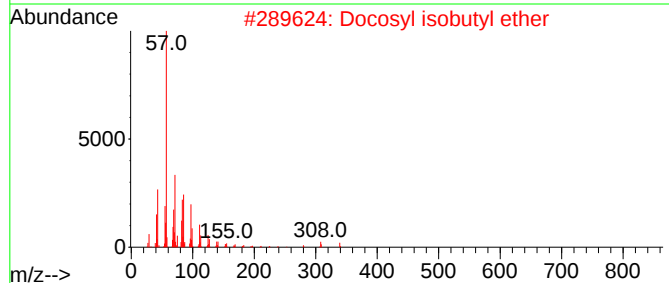
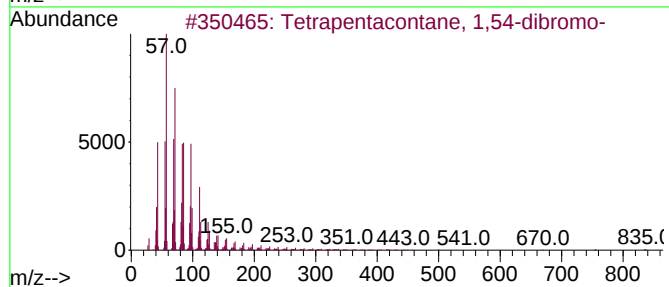
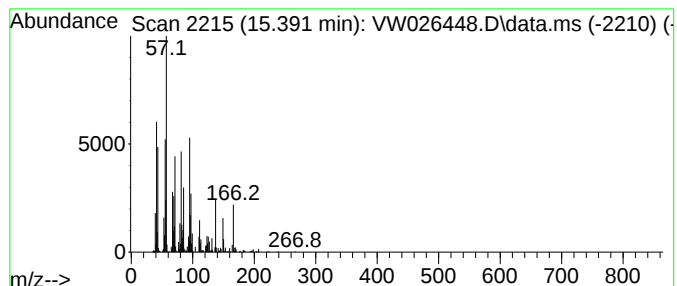
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Quant Title : SFAM01.0

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

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Peak Number 29 unknown-03 Concentration Rank 8

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.391 | 6.20 ug/L | 385595 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|------|----|---|----------------------------------|-----|------------|--------------|------|
| 1    |    |   | Tetrapentacontane, 1,54-dibromo- | 915 | C54H108Br2 | 1000156-09-4 | 46   |
| 2    |    |   | Docosyl isobutyl ether           | 382 | C26H54O    | 1000406-33-1 | 45   |
| 3    |    |   | Isobutyl tetratriacontyl ether   | 551 | C38H78O    | 1000406-33-7 | 43   |
| 4    |    |   | 1-Bromodocosane                  | 388 | C22H45Br   | 006938-66-5  | 43   |
| 5    |    |   | Eicosyl isobutyl ether           | 354 | C24H50O    | 1000406-33-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

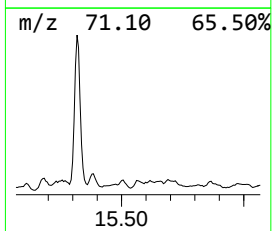
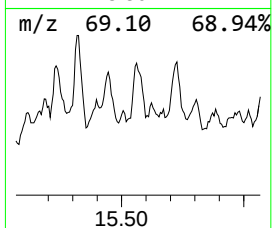
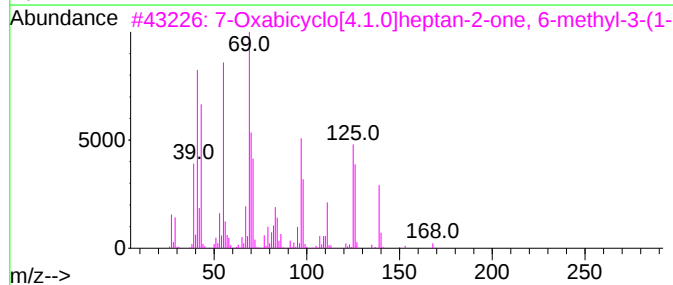
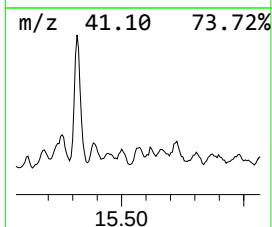
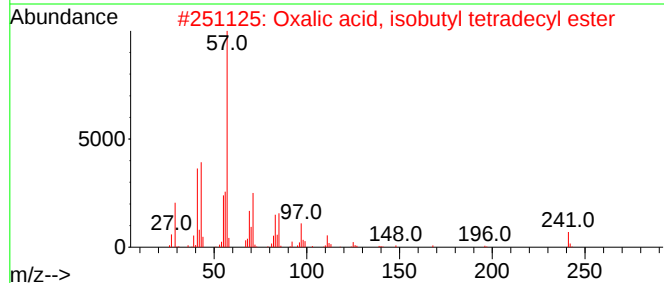
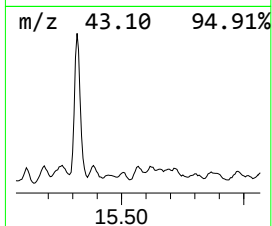
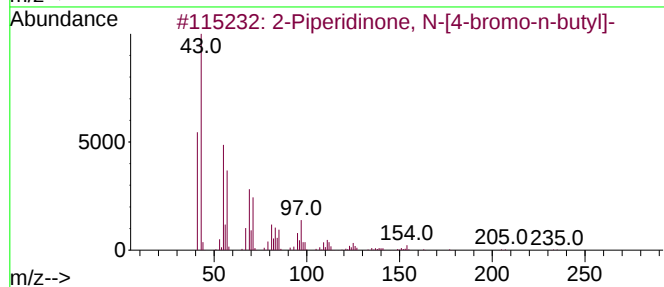
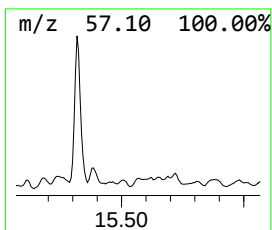
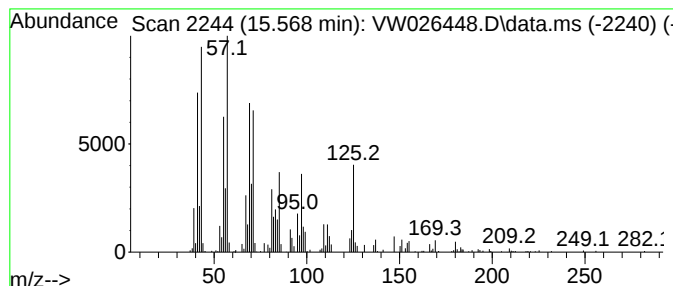
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

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

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Peak Number 30 2-Piperidinone, N-[4-bromo-... Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD       |           | R.T.         |      |
|-----------|-------------------------------------|--------|------------------------|-----------|--------------|------|
| 15.568    | 4.20 ug/L                           | 261510 | 1,4-Dichlorobenzene-d4 |           | 13.556       |      |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm   | CAS#         | Qual |
| 1         | 2-Piperidinone, N-[4-bromo-n-but... |        | 233                    | C9H16BrNO | 195194-80-0  | 52   |
| 2         | Oxalic acid, isobutyl tetradecyl... |        | 342                    | C20H38O4  | 1000309-37-9 | 49   |
| 3         | 7-Oxabicyclo[4.1.0]heptan-2-one,... |        | 168                    | C10H16O2  | 005286-38-4  | 43   |
| 4         | Carbonic acid, dodecyl prop-1-en... |        | 270                    | C16H30O3  | 1000382-90-7 | 43   |
| 5         | Carbonic acid, decyl undecyl ester  |        | 356                    | C22H44O3  | 1000383-16-0 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

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

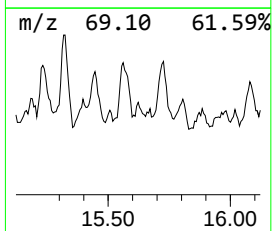
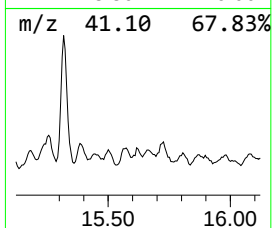
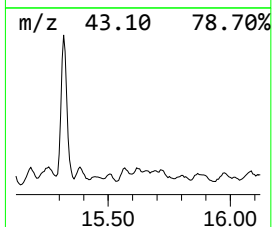
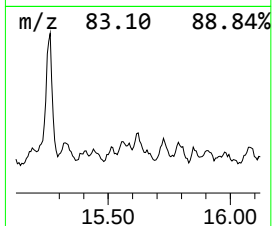
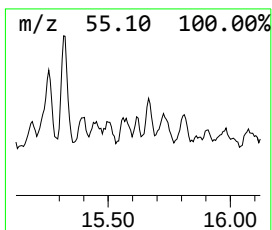
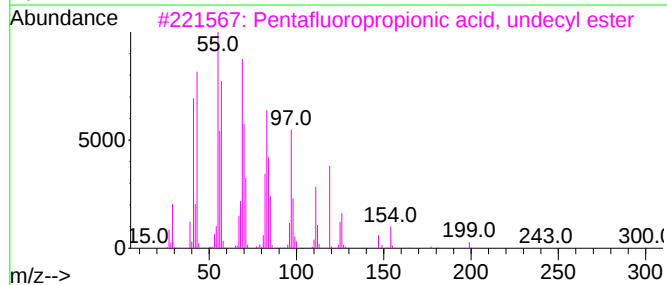
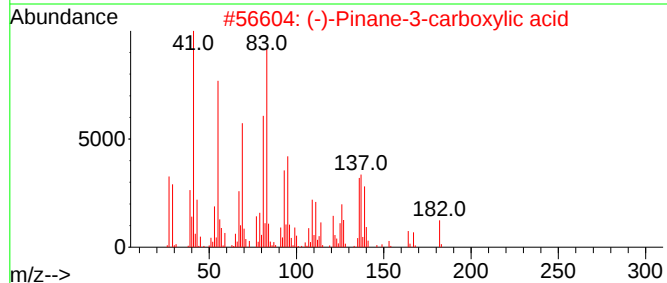
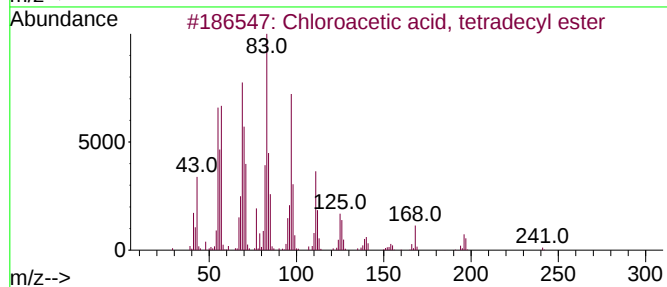
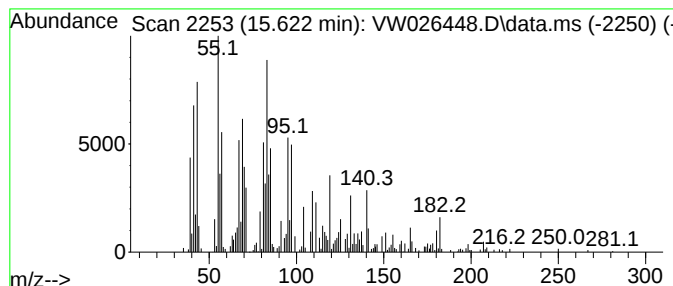
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 unknown-04 Concentration Rank 31

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.623 | 1.63 ug/L | 101642 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Chloroacetic acid, tetradecyl ester | 290 | C16H31ClO2 | 018277-86-6 | 45   |
| 2    |    |   | (-)-Pinane-3-carboxylic acid        | 182 | C11H18O2   | 064284-84-0 | 45   |
| 3    |    |   | Pentafluoropropionic acid, undec... | 318 | C14H23F5O2 | 959014-11-0 | 42   |
| 4    |    |   | 1-Octadecanol                       | 270 | C18H38O    | 000112-92-5 | 41   |
| 5    |    |   | Pentafluoropropionic acid, dodec... | 332 | C15H25F5O2 | 006222-04-4 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
Data File : VW026448.D  
Acq On : 29 Jun 2023 21:38  
Operator : SY/MD  
Sample : 03452-19  
Misc : 5.00g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46Q7

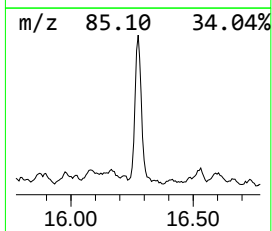
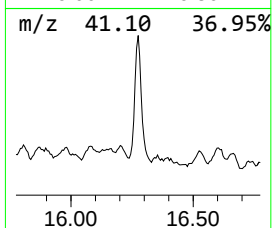
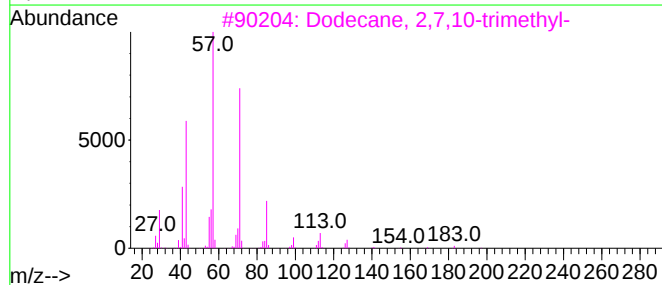
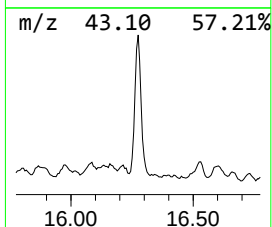
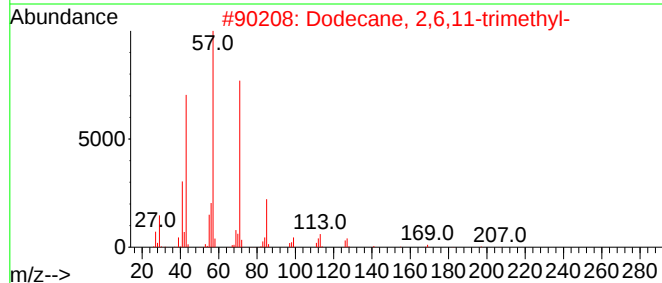
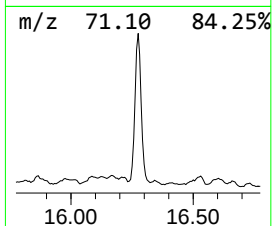
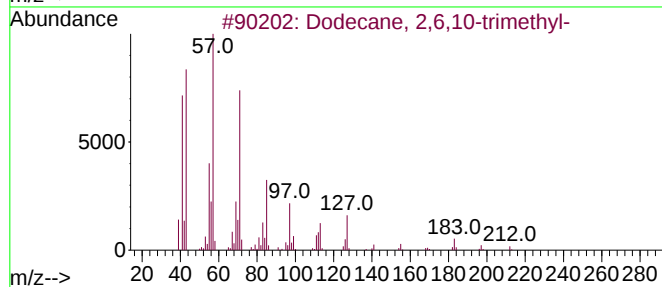
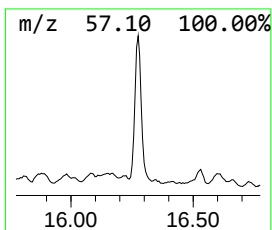
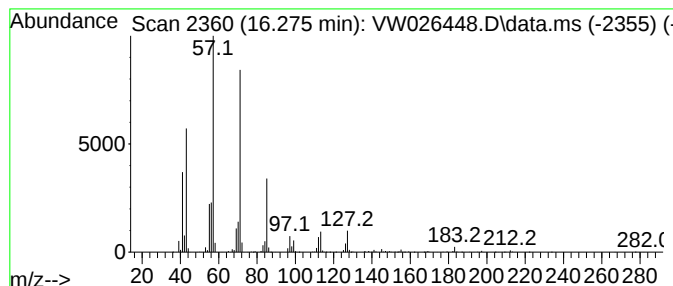
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Quant Title : SFAM01.0

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

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Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 16.275 | 25.39 ug/L | 1580140 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2,6,10-trimethyl-        | 212 | C15H32  | 003891-98-3 | 91   |
| 2    |    |   | Dodecane, 2,6,11-trimethyl-        | 212 | C15H32  | 031295-56-4 | 90   |
| 3    |    |   | Dodecane, 2,7,10-trimethyl-        | 212 | C15H32  | 074645-98-0 | 90   |
| 4    |    |   | Nonane, 3,7-dimethyl-              | 156 | C11H24  | 017302-32-8 | 87   |
| 5    |    |   | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062923\  
 Data File : VW026448.D  
 Acq On : 29 Jun 2023 21:38  
 Operator : SY/MD  
 Sample : 03452-19  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46Q7

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

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

|                    |        |         |       |          | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
| TIC Top Hit name   | RT     | EstConc | Units | Response | #                     | RT     | Resp    | Conc |
| (DEL) Alkane: S... | 12.135 | 1.8     | ug/L  | 164604   | 2                     | 11.629 | 2323090 | 25.0 |
| (DEL) Alkane: S... | 12.245 | 1.7     | ug/L  | 159026   | 2                     | 11.629 | 2323090 | 25.0 |
| (DEL) Alkane: S... | 12.361 | 5.0     | ug/L  | 459820   | 2                     | 11.629 | 2323090 | 25.0 |
| (DEL) Alkane: S... | 12.495 | 1.8     | ug/L  | 167882   | 2                     | 11.629 | 2323090 | 25.0 |
| (DEL) Alkane: C... | 12.775 | 3.2     | ug/L  | 200020   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: C... | 12.855 | 2.7     | ug/L  | 169106   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 12.940 | 9.0     | ug/L  | 562500   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 13.074 | 1.6     | ug/L  | 98093    | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 13.160 | 2.3     | ug/L  | 142574   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 13.288 | 3.5     | ug/L  | 220433   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 13.336 | 1.9     | ug/L  | 118081   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: C... | 13.446 | 5.7     | ug/L  | 356006   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 13.696 | 2.3     | ug/L  | 141418   | 3                     | 13.556 | 1555690 | 25.0 |
| Sulfurous acid,... | 13.916 | 3.7     | ug/L  | 232893   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: C... | 13.976 | 2.7     | ug/L  | 167446   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 14.190 | 3.2     | ug/L  | 200182   | 3                     | 13.556 | 1555690 | 25.0 |
| Decyl isobutyl ... | 14.257 | 4.5     | ug/L  | 281416   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 14.312 | 1.7     | ug/L  | 103682   | 3                     | 13.556 | 1555690 | 25.0 |
| Naphthalene, de... | 14.379 | 12.3    | ug/L  | 765194   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 14.495 | 3.7     | ug/L  | 230777   | 3                     | 13.556 | 1555690 | 25.0 |
| trans-Decalin, ... | 14.543 | 4.8     | ug/L  | 300229   | 3                     | 13.556 | 1555690 | 25.0 |
| Heptadecyl hept... | 14.732 | 4.2     | ug/L  | 263115   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: C... | 14.793 | 9.2     | ug/L  | 572125   | 3                     | 13.556 | 1555690 | 25.0 |
| unknown-01         | 14.848 | 8.9     | ug/L  | 551904   | 3                     | 13.556 | 1555690 | 25.0 |
| unknown-02         | 15.110 | 2.0     | ug/L  | 121542   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 15.318 | 28.7    | ug/L  | 1784060  | 3                     | 13.556 | 1555690 | 25.0 |
| unknown-03         | 15.391 | 6.2     | ug/L  | 385595   | 3                     | 13.556 | 1555690 | 25.0 |
| 2-Piperidinone,... | 15.568 | 4.2     | ug/L  | 261510   | 3                     | 13.556 | 1555690 | 25.0 |
| unknown-04         | 15.623 | 1.6     | ug/L  | 101642   | 3                     | 13.556 | 1555690 | 25.0 |
| (DEL) Alkane: S... | 16.275 | 25.4    | ug/L  | 1580140  | 3                     | 13.556 | 1555690 | 25.0 |