

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
 Data File : VD072392.D  
 Acq On : 23 Mar 2022 19:05  
 Operator : VA/SY  
 Sample : N2077-05  
 Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-14A-3-1-(3.0-3.5)

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Title : SW846 8260

Signal : TIC: VD072392.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         | 3.038       | 179           | 190         | 199          | rBV      | 390657         | 845663        | 1.43%           | 0.079%        |
| 2         | 4.950       | 500           | 515         | 544          | rBV      | 412648         | 1880512       | 3.17%           | 0.176%        |
| 3         | 5.491       | 592           | 607         | 629          | rBV      | 799218         | 2756834       | 4.65%           | 0.258%        |
| 4         | 6.767       | 805           | 824         | 837          | rBV2     | 299650         | 1008850       | 1.70%           | 0.094%        |
| 5         | 6.926       | 837           | 851         | 862          | rBV      | 640724         | 1960356       | 3.31%           | 0.184%        |
| 6         | 7.732       | 968           | 988         | 1000         | rBV2     | 373637         | 1115966       | 1.88%           | 0.104%        |
| 7         | 7.979       | 1023          | 1030        | 1036         | rVV2     | 545046         | 1318362       | 2.22%           | 0.123%        |
| 8         | 8.061       | 1036          | 1044        | 1057         | rVV      | 2890920        | 7194221       | 12.14%          | 0.673%        |
| 9         | 8.250       | 1068          | 1076        | 1084         | rVV      | 2295614        | 5828616       | 9.84%           | 0.546%        |
| 10        | 8.332       | 1084          | 1090        | 1100         | rVV3     | 252788         | 721451        | 1.22%           | 0.068%        |
| 11        | 8.450       | 1100          | 1110        | 1118         | rVV3     | 1697088        | 4466849       | 7.54%           | 0.418%        |
| 12        | 8.532       | 1118          | 1124        | 1130         | rVV2     | 1141558        | 2624759       | 4.43%           | 0.246%        |
| 13        | 8.597       | 1130          | 1135        | 1145         | rVB      | 357542         | 785779        | 1.33%           | 0.074%        |
| 14        | 8.861       | 1170          | 1180        | 1191         | rBV      | 684383         | 1397050       | 2.36%           | 0.131%        |
| 15        | 9.167       | 1225          | 1232        | 1246         | rVB      | 634225         | 1316736       | 2.22%           | 0.123%        |
| 16        | 9.320       | 1247          | 1258        | 1268         | rBV2     | 6113133        | 17829946      | 30.09%          | 1.669%        |
| 17        | 9.403       | 1268          | 1272        | 1280         | rVB      | 3224457        | 6076536       | 10.25%          | 0.569%        |
| 18        | 9.626       | 1298          | 1310        | 1323         | rVB2     | 7391524        | 16889846      | 28.50%          | 1.581%        |
| 19        | 9.767       | 1326          | 1334        | 1345         | rVB2     | 2935725        | 5987185       | 10.10%          | 0.560%        |
| 20        | 9.914       | 1346          | 1359        | 1363         | rBV      | 3112370        | 6310992       | 10.65%          | 0.591%        |
| 21        | 9.961       | 1363          | 1367        | 1374         | rVB      | 2333807        | 4276881       | 7.22%           | 0.400%        |
| 22        | 10.097      | 1382          | 1390        | 1394         | rBV      | 5516911        | 11087174      | 18.71%          | 1.038%        |
| 23        | 10.144      | 1394          | 1398        | 1406         | rVB      | 2597455        | 4825499       | 8.14%           | 0.452%        |
| 24        | 10.226      | 1406          | 1412        | 1415         | rBV      | 1999066        | 3999769       | 6.75%           | 0.374%        |
| 25        | 10.332      | 1423          | 1430        | 1434         | rBV2     | 7117551        | 13940212      | 23.53%          | 1.305%        |
| 26        | 10.373      | 1434          | 1437        | 1444         | rVB      | 4764175        | 7462084       | 12.59%          | 0.699%        |
| 27        | 10.461      | 1445          | 1452        | 1454         | rBV      | 2118501        | 3661513       | 6.18%           | 0.343%        |
| 28        | 10.503      | 1454          | 1459        | 1470         | rVB2     | 7760315        | 18846952      | 31.81%          | 1.764%        |
| 29        | 10.632      | 1470          | 1481        | 1484         | rBV      | 5798466        | 11867548      | 20.03%          | 1.111%        |
| 30        | 10.679      | 1484          | 1489        | 1497         | rVB      | 13579356       | 25060099      | 42.29%          | 2.346%        |
| 31        | 10.773      | 1497          | 1505        | 1510         | rBV3     | 7225141        | 16272475      | 27.46%          | 1.523%        |
| 32        | 10.814      | 1510          | 1512        | 1516         | rVB2     | 1854791        | 2209969       | 3.73%           | 0.207%        |
| 33        | 10.861      | 1516          | 1520        | 1525         | rVB      | 4528117        | 7151777       | 12.07%          | 0.669%        |
| 34        | 10.914      | 1525          | 1529        | 1531         | rBV      | 1347594        | 2100749       | 3.55%           | 0.197%        |
| 35        | 10.950      | 1532          | 1535        | 1541         | rVB3     | 1818573        | 3262258       | 5.51%           | 0.305%        |
| 36        | 11.050      | 1541          | 1552        | 1560         | rBV      | 7578249        | 19417442      | 32.77%          | 1.818%        |

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 Sample : N2077-05  
 Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-14A-3-1-(3.0-3.5)

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |        |
|----|--------|------|------|------|------|----------|----------|---------|--------|
| 37 | 11.120 | 1560 | 1564 | 1567 | rBV2 | 4468945  | 7422412  | 12.53%  | 0.695% |
| 38 | 11.155 | 1567 | 1570 | 1574 | rVB  | 2887015  | 3586569  | 6.05%   | 0.336% |
| 39 | 11.244 | 1578 | 1585 | 1591 | rBV  | 31636994 | 59254937 | 100.00% | 5.547% |
| 40 | 11.297 | 1591 | 1594 | 1597 | rVB  | 3549753  | 4178662  | 7.05%   | 0.391% |
| 41 | 11.350 | 1597 | 1603 | 1607 | rBV2 | 10364017 | 17541928 | 29.60%  | 1.642% |
| 42 | 11.391 | 1607 | 1610 | 1614 | rVB  | 4239299  | 6113488  | 10.32%  | 0.572% |
| 43 | 11.444 | 1614 | 1619 | 1627 | rVB  | 13937377 | 25135571 | 42.42%  | 2.353% |
| 44 | 11.514 | 1627 | 1631 | 1636 | rBV  | 2782852  | 4541459  | 7.66%   | 0.425% |
| 45 | 11.567 | 1636 | 1640 | 1646 | rVB5 | 867305   | 1393974  | 2.35%   | 0.130% |
| 46 | 11.632 | 1646 | 1651 | 1655 | rBV3 | 1040476  | 2090352  | 3.53%   | 0.196% |
| 47 | 11.679 | 1655 | 1659 | 1662 | rBV  | 1621998  | 2242581  | 3.78%   | 0.210% |
| 48 | 11.732 | 1665 | 1668 | 1671 | rBV  | 745045   | 793500   | 1.34%   | 0.074% |
| 49 | 11.773 | 1671 | 1675 | 1679 | rBV  | 7117482  | 11032576 | 18.62%  | 1.033% |
| 50 | 11.826 | 1679 | 1684 | 1689 | rVB3 | 5935736  | 10941949 | 18.47%  | 1.024% |
| 51 | 11.885 | 1689 | 1694 | 1698 | rBV  | 13470631 | 26210688 | 44.23%  | 2.454% |
| 52 | 11.985 | 1706 | 1711 | 1718 | rBV3 | 4561108  | 11356414 | 19.17%  | 1.063% |
| 53 | 12.073 | 1718 | 1726 | 1731 | rVB4 | 4927056  | 13220925 | 22.31%  | 1.238% |
| 54 | 12.149 | 1731 | 1739 | 1745 | rBV3 | 20983657 | 49320561 | 83.23%  | 4.617% |
| 55 | 12.202 | 1745 | 1748 | 1751 | rVV2 | 2943585  | 4202857  | 7.09%   | 0.393% |
| 56 | 12.238 | 1751 | 1754 | 1756 | rVV2 | 3235549  | 4787769  | 8.08%   | 0.448% |
| 57 | 12.261 | 1756 | 1758 | 1762 | rVB  | 7031776  | 8752008  | 14.77%  | 0.819% |
| 58 | 12.349 | 1762 | 1773 | 1774 | rBV4 | 18662299 | 38977715 | 65.78%  | 3.649% |
| 59 | 12.379 | 1775 | 1778 | 1785 | rVB2 | 18801990 | 38140063 | 64.37%  | 3.570% |
| 60 | 12.514 | 1797 | 1801 | 1808 | rVB4 | 9879601  | 20999941 | 35.44%  | 1.966% |
| 61 | 12.626 | 1815 | 1820 | 1826 | rVB3 | 7007357  | 12403193 | 20.93%  | 1.161% |
| 62 | 12.714 | 1826 | 1835 | 1839 | rBV4 | 8233693  | 22775883 | 38.44%  | 2.132% |
| 63 | 12.791 | 1843 | 1848 | 1854 | rVB2 | 24026627 | 44762662 | 75.54%  | 4.190% |
| 64 | 12.867 | 1854 | 1861 | 1867 | rBV5 | 8928277  | 23056794 | 38.91%  | 2.158% |
| 65 | 12.949 | 1867 | 1875 | 1881 | rVV6 | 17336912 | 49336609 | 83.26%  | 4.618% |
| 66 | 13.002 | 1881 | 1884 | 1889 | rVB2 | 10014238 | 15342100 | 25.89%  | 1.436% |
| 67 | 13.055 | 1889 | 1893 | 1894 | rBV2 | 1925392  | 2361723  | 3.99%   | 0.221% |
| 68 | 13.091 | 1895 | 1899 | 1903 | rVB3 | 8812835  | 11911612 | 20.10%  | 1.115% |
| 69 | 13.138 | 1903 | 1907 | 1910 | rBV3 | 5154877  | 8934387  | 15.08%  | 0.836% |
| 70 | 13.179 | 1910 | 1914 | 1922 | rVB4 | 9063665  | 16079943 | 27.14%  | 1.505% |
| 71 | 13.273 | 1927 | 1930 | 1931 | rBV  | 2762221  | 2974423  | 5.02%   | 0.278% |
| 72 | 13.302 | 1931 | 1935 | 1939 | rBV  | 6103455  | 8329765  | 14.06%  | 0.780% |
| 73 | 13.355 | 1940 | 1944 | 1947 | rBV2 | 5690933  | 7839794  | 13.23%  | 0.734% |
| 74 | 13.461 | 1954 | 1962 | 1965 | rBV4 | 15376150 | 31384732 | 52.97%  | 2.938% |
| 75 | 13.708 | 1999 | 2004 | 2015 | rVB5 | 8247420  | 20852702 | 35.19%  | 1.952% |
| 76 | 13.891 | 2029 | 2035 | 2039 | rBV2 | 20017556 | 36471037 | 61.55%  | 3.414% |

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 Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-14A-3-1-(3.0-3.5)

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 77 | 13.932 | 2039 | 2042 | 2047 | rVB3 | 6113045  | 8680890  | 14.65% | 0.813% |
| 78 | 13.991 | 2048 | 2052 | 2055 | rBV3 | 5935014  | 8847776  | 14.93% | 0.828% |
| 79 | 14.208 | 2084 | 2089 | 2095 | rBV8 | 4038857  | 7456286  | 12.58% | 0.698% |
| 80 | 14.273 | 2096 | 2100 | 2106 | rVB4 | 6126637  | 10665331 | 18.00% | 0.998% |
| 81 | 14.332 | 2106 | 2110 | 2114 | rBV3 | 2563205  | 3663596  | 6.18%  | 0.343% |
| 82 | 14.396 | 2115 | 2121 | 2136 | rVB3 | 17500406 | 38491146 | 64.96% | 3.603% |
| 83 | 14.561 | 2143 | 2149 | 2154 | rBV4 | 9256903  | 15763724 | 26.60% | 1.476% |
| 84 | 14.749 | 2178 | 2181 | 2187 | rBV4 | 2174948  | 4017426  | 6.78%  | 0.376% |
| 85 | 14.814 | 2188 | 2192 | 2197 | rVV3 | 5624994  | 10350803 | 17.47% | 0.969% |
| 86 | 14.867 | 2197 | 2201 | 2207 | rVB4 | 5402607  | 9444238  | 15.94% | 0.884% |
| 87 | 15.196 | 2252 | 2257 | 2263 | rBV6 | 1443682  | 2852006  | 4.81%  | 0.267% |
| 88 | 15.349 | 2278 | 2283 | 2290 | rVB  | 5007170  | 8375437  | 14.13% | 0.784% |
| 89 | 15.426 | 2291 | 2296 | 2301 | rBV5 | 1221255  | 2703198  | 4.56%  | 0.253% |
| 90 | 15.596 | 2322 | 2325 | 2331 | rVB5 | 836392   | 1644337  | 2.78%  | 0.154% |
| 91 | 15.761 | 2349 | 2353 | 2360 | rVB4 | 1308849  | 2672440  | 4.51%  | 0.250% |
| 92 | 16.326 | 2445 | 2449 | 2457 | rVB  | 960203   | 1818605  | 3.07%  | 0.170% |

Sum of corrected areas: 1068262407



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Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

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

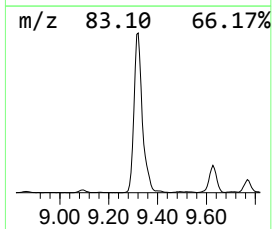
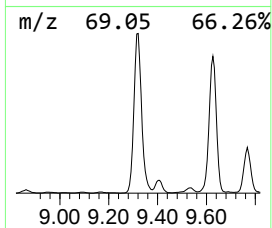
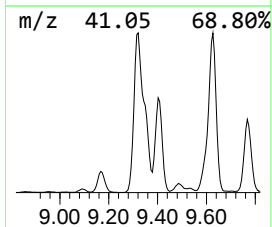
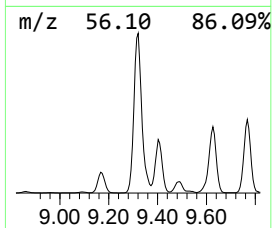
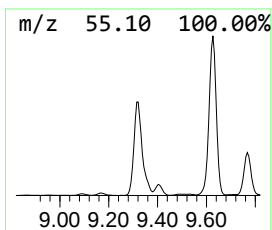
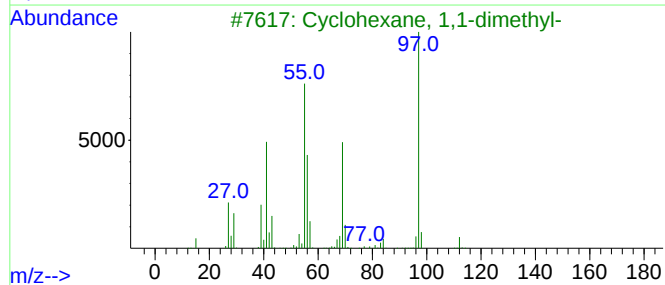
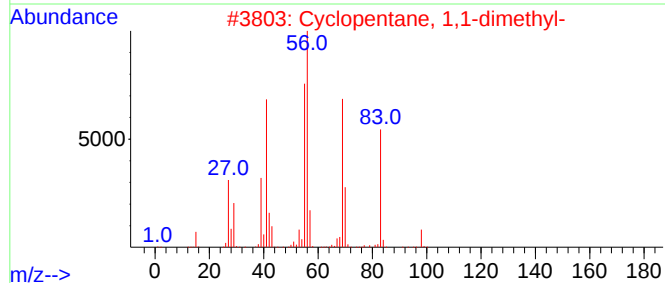
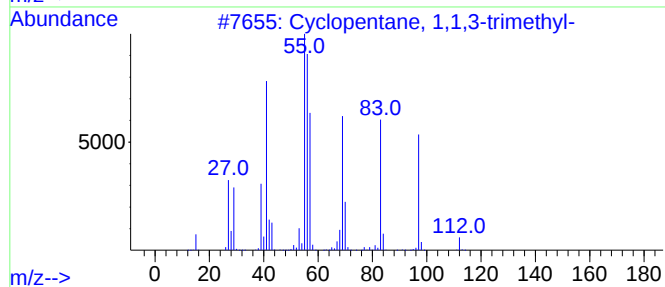
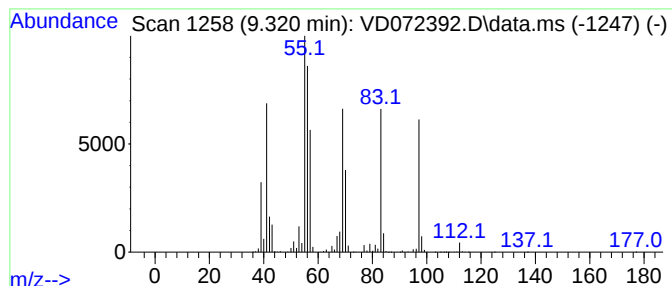
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Peak Number 1 Cyclopentane, 1,1,3-trimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD    | R.T.  |
|-------|-------------|----------|---------------------|-------|
| 9.320 | 638.13 ug/l | 17829900 | 1,4-Difluorobenzene | 8.861 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Cyclopentane, 1,1,3-trimethyl-      | 112 | C8H16    | 004516-69-2 | 94   |
| 2    |    |   | Cyclopentane, 1,1-dimethyl-         | 98  | C7H14    | 001638-26-2 | 58   |
| 3    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16    | 000590-66-9 | 47   |
| 4    |    |   | Propanedinitrile, cyclohexyl(2-m... | 244 | C16H24N2 | 074764-55-9 | 38   |
| 5    |    |   | 1-Hexene, 3-methyl-                 | 98  | C7H14    | 003404-61-3 | 38   |



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Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

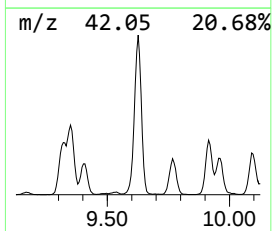
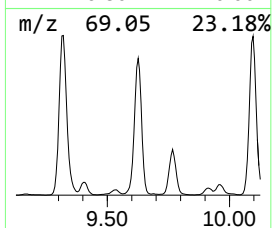
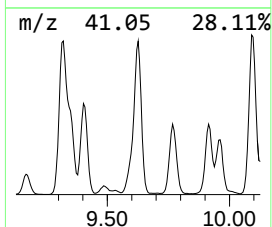
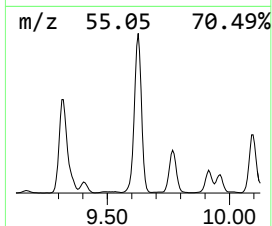
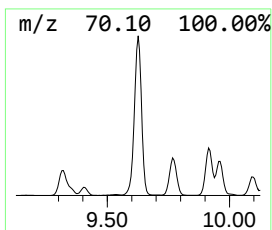
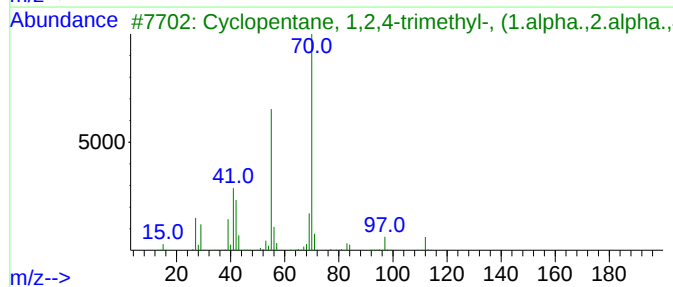
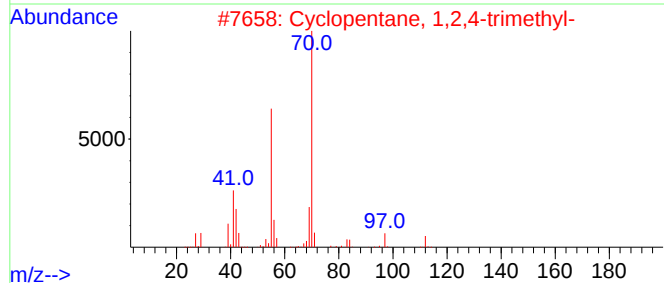
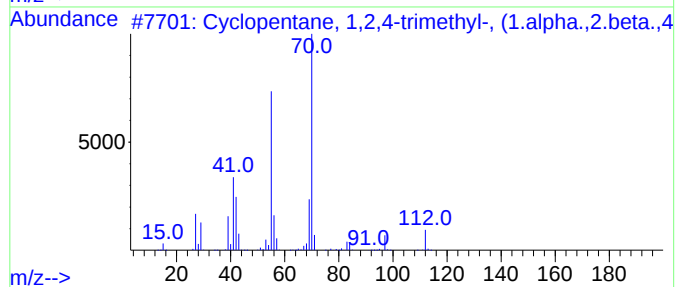
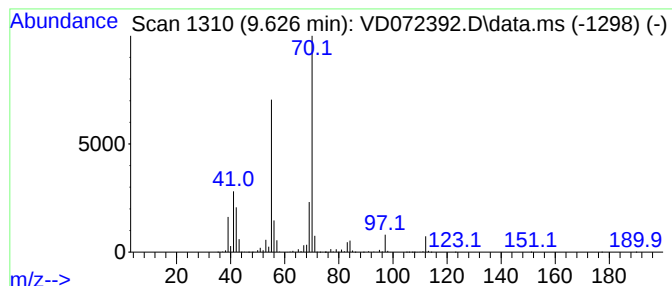
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Cyclopentane, 1,2,4-trimeth... Concentration Rank 5

| R.T.  | EstConc     | Area     | Relative to ISTD    | R.T.  |
|-------|-------------|----------|---------------------|-------|
| 9.626 | 604.48 ug/l | 16889800 | 1,4-Difluorobenzene | 8.861 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 016883-48-0 | 95   |
| 2    |    |   | Cyclopentane, 1,2,4-trimethyl-      | 112 | C8H16   | 002815-58-9 | 94   |
| 3    |    |   | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 004850-28-6 | 91   |
| 4    |    |   | Hexane, 2-methyl-4-methylene-       | 112 | C8H16   | 003404-80-6 | 72   |
| 5    |    |   | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16   | 002613-69-6 | 72   |



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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

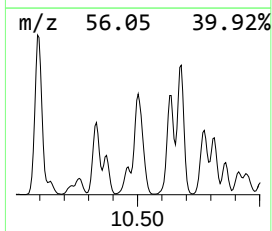
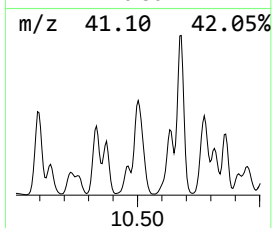
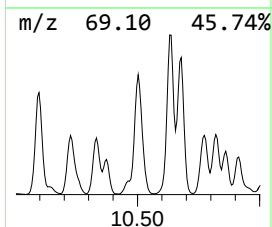
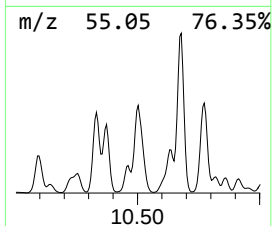
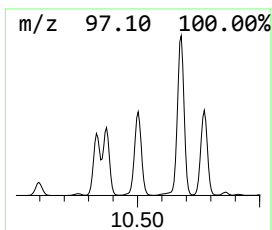
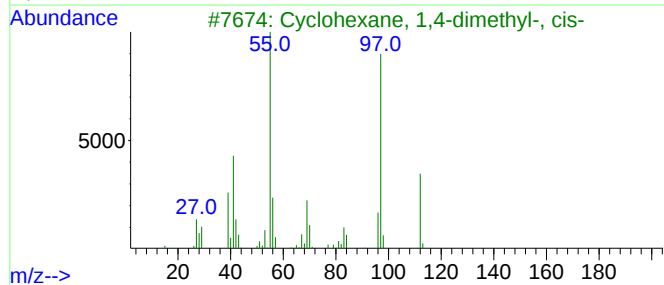
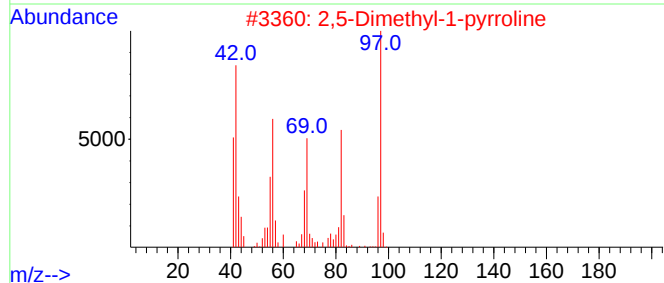
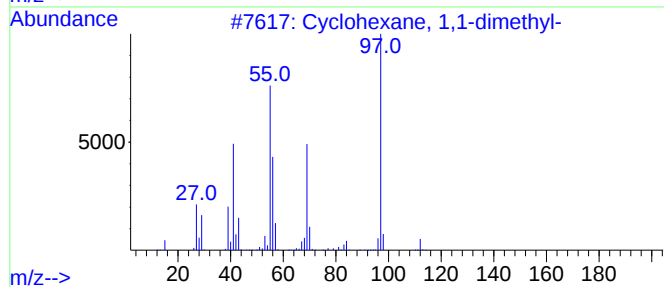
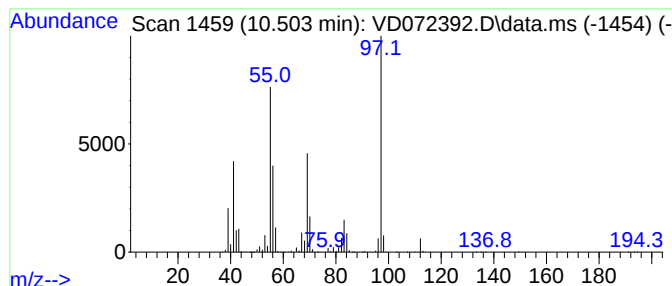
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Cyclohexane, 1,1-dimethyl- Concentration Rank 9

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 10.503 | 450.81 ug/l | 18847000 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16     | 000590-66-9  | 91   |
| 2    |    |   | 2,5-Dimethyl-1-pyrroline            | 97  | C6H11N    | 000822-64-0  | 64   |
| 3    |    |   | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16     | 000624-29-3  | 59   |
| 4    |    |   | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-5 | 53   |
| 5    |    |   | Sulfurous acid, cyclohexylmethyl... | 304 | C16H32O3S | 1000309-21-8 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072392\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

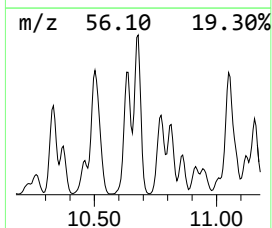
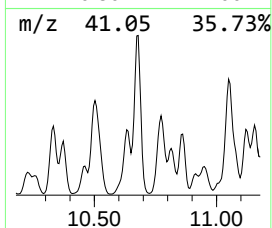
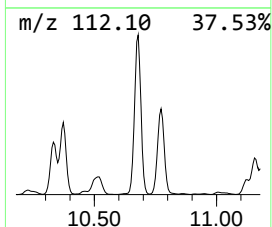
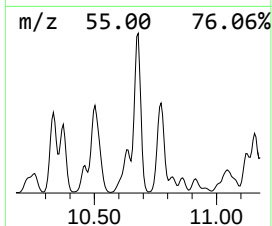
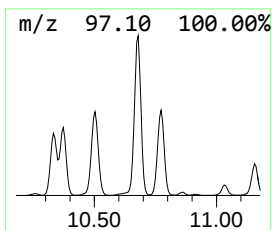
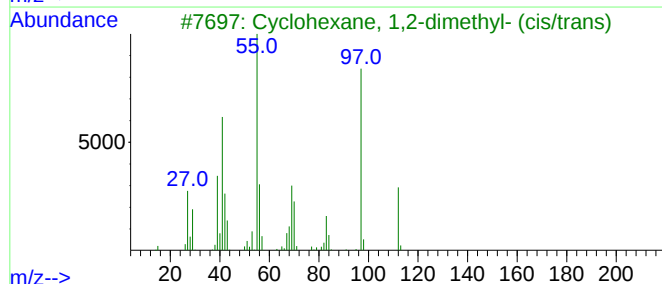
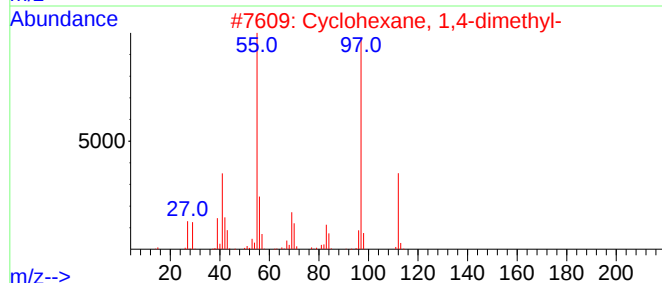
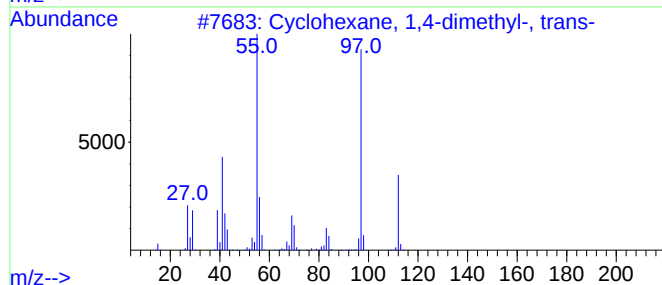
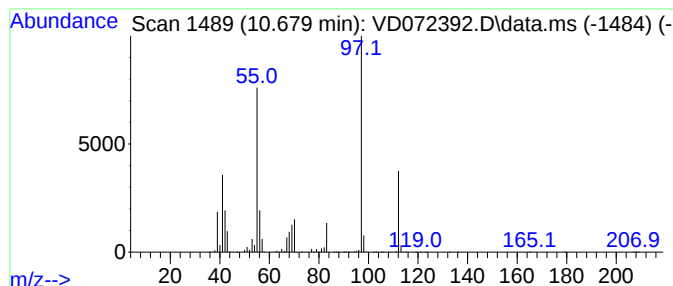
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 7

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 10.679 | 599.42 ug/l | 25060100 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 91   |
| 2    |    |   | Cyclohexane, 1,4-dimethyl-          | 112 | C8H16   | 000589-90-2 | 90   |
| 3    |    |   | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 87   |
| 4    |    |   | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16   | 000624-29-3 | 83   |
| 5    |    |   | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

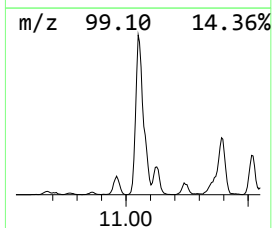
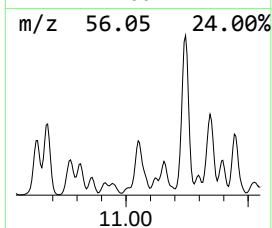
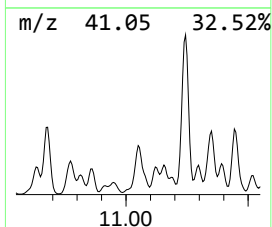
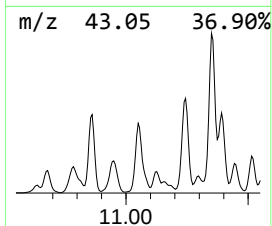
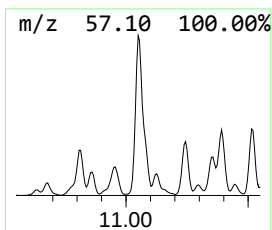
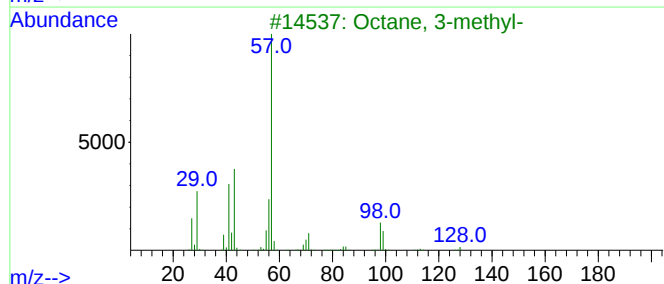
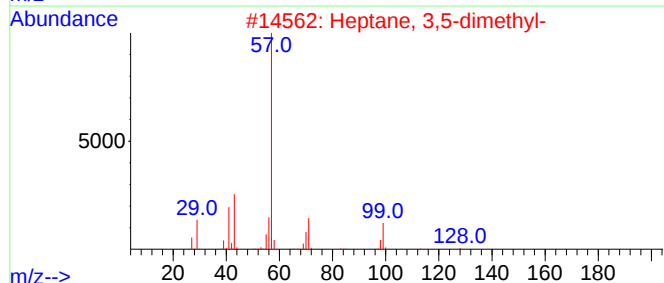
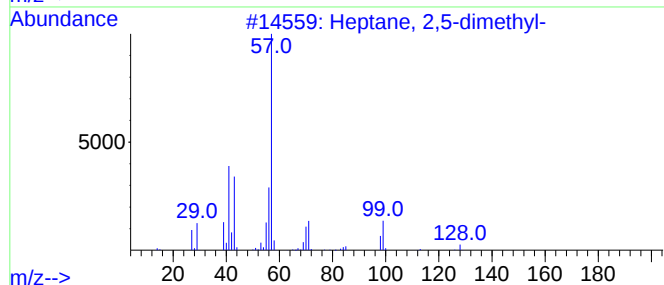
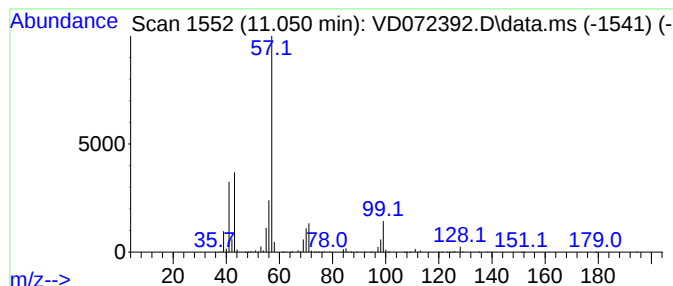
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Quant Title : SW846 8260

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

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Peak Number 5 Heptane, 2,5-dimethyl- Concentration Rank 8

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.050 | 464.45 ug/l | 19417400 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 2,5-dimethyl-     | 128 | C9H20   | 002216-30-0 | 93   |
| 2    |    |   | Heptane, 3,5-dimethyl-     | 128 | C9H20   | 000926-82-9 | 74   |
| 3    |    |   | Octane, 3-methyl-          | 128 | C9H20   | 002216-33-3 | 72   |
| 4    |    |   | 2,2,4,4-Tetramethyloctane  | 170 | C12H26  | 062183-79-3 | 53   |
| 5    |    |   | Heptane, 3-ethyl-2-methyl- | 142 | C10H22  | 014676-29-0 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

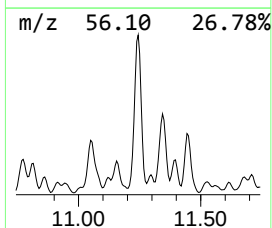
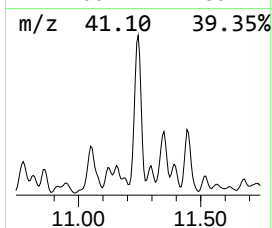
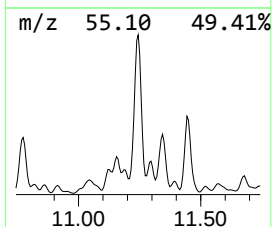
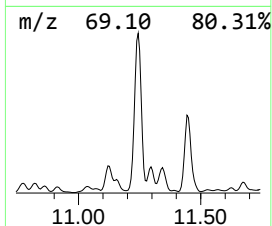
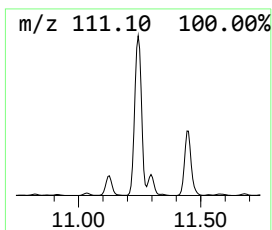
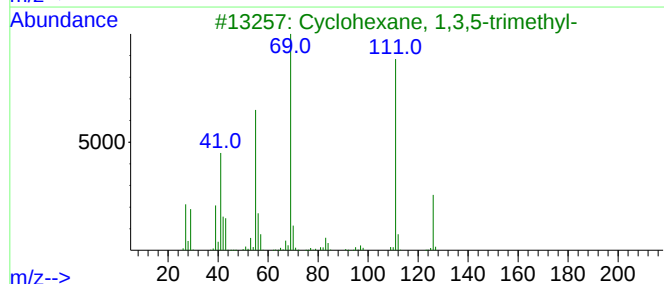
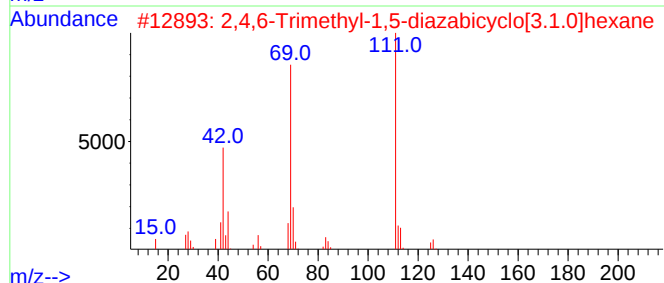
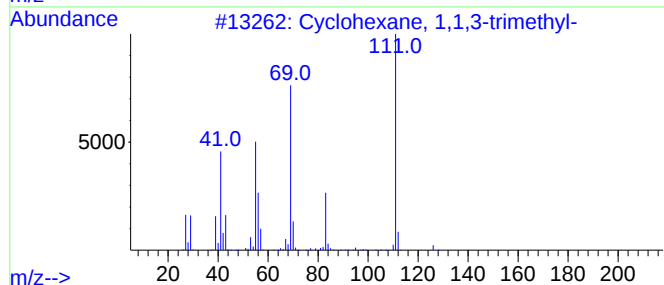
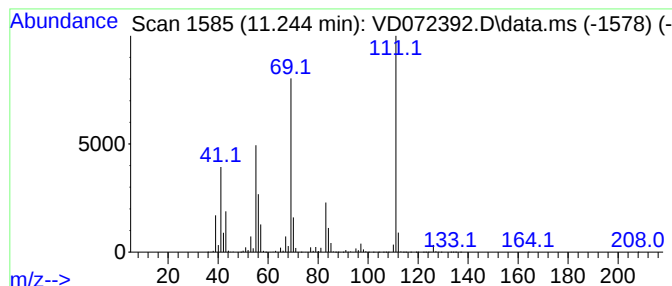
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 1

| R.T.   | EstConc      | Area     | Relative to ISTD | R.T.   |
|--------|--------------|----------|------------------|--------|
| 11.244 | 1417.34 ug/l | 59254900 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3  | 94   |
| 2    |    |   | 2,4,6-Trimethyl-1,5-diazabicyclo...  | 126 | C7H14N2 | 1000283-21-2 | 64   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-        | 126 | C9H18   | 001839-63-0  | 64   |
| 4    |    |   | 1,1,4-Trimethylcyclohexane           | 126 | C9H18   | 007094-27-1  | 62   |
| 5    |    |   | Cyclohexane, 1,2,4-trimethyl-, (...) | 126 | C9H18   | 007667-60-9  | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

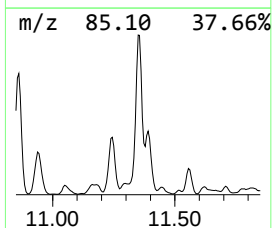
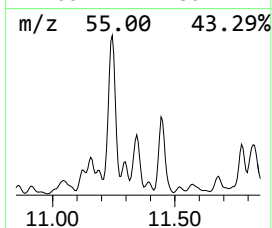
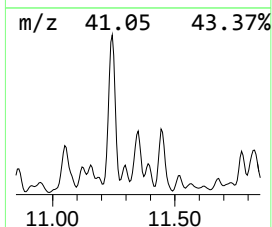
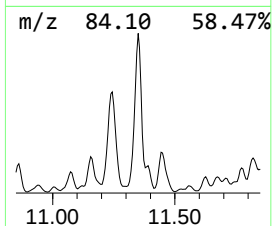
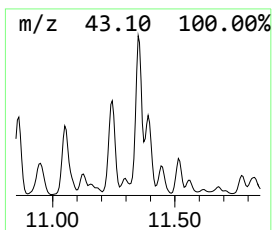
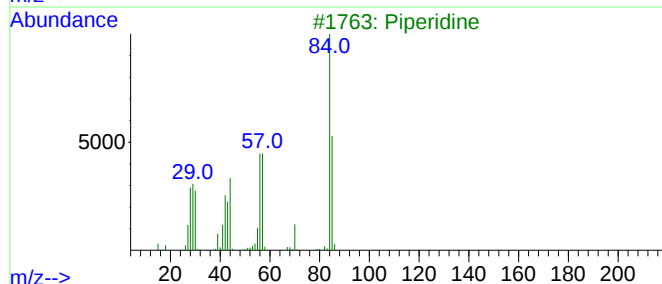
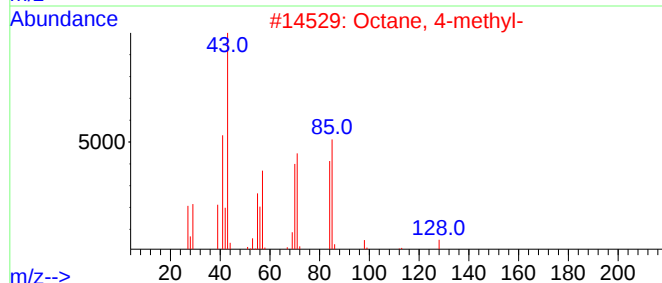
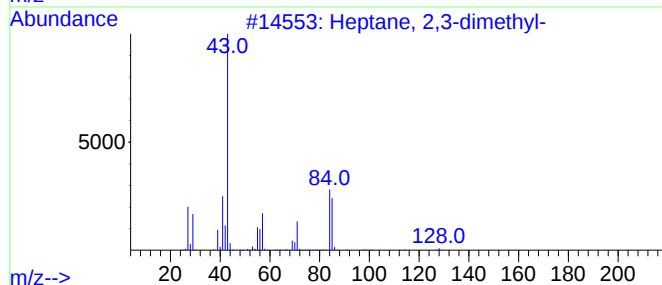
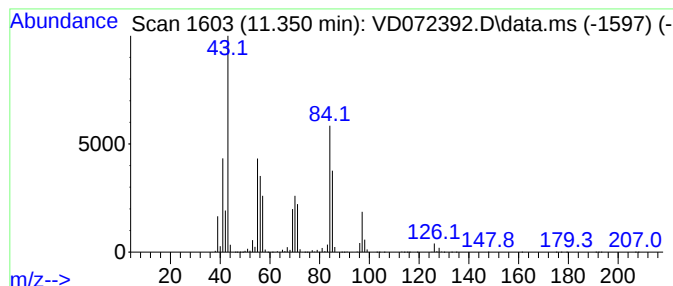
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Quant Title : SW846 8260

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

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Peak Number 7 Heptane, 2,3-dimethyl- Concentration Rank 10

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.350 | 419.59 ug/l | 17541900 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 2,3-dimethyl- | 128 | C9H20   | 003074-71-3 | 58   |
| 2    |    |   | Octane, 4-methyl-      | 128 | C9H20   | 002216-34-4 | 49   |
| 3    |    |   | Piperidine             | 85  | C5H11N  | 000110-89-4 | 49   |
| 4    |    |   | 1-Octene, 4-methyl-    | 126 | C9H18   | 013151-12-7 | 43   |
| 5    |    |   | Hexane, 3-ethyl-       | 114 | C8H18   | 000619-99-8 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

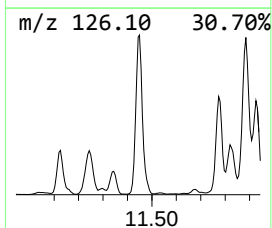
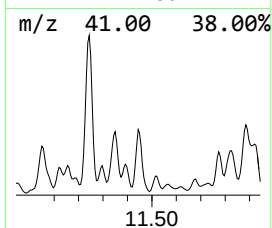
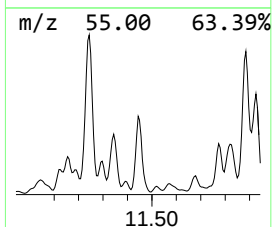
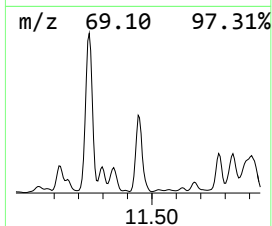
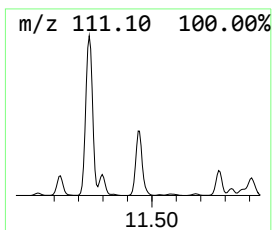
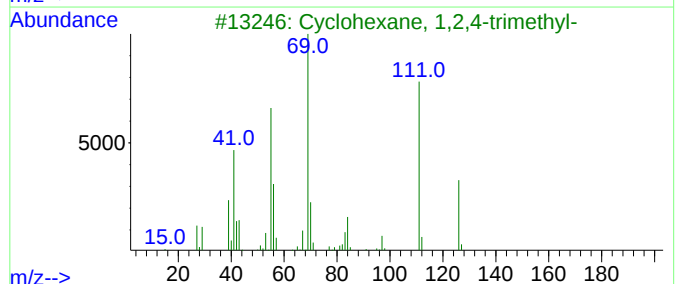
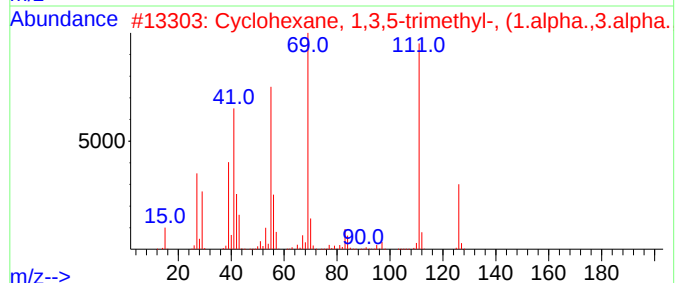
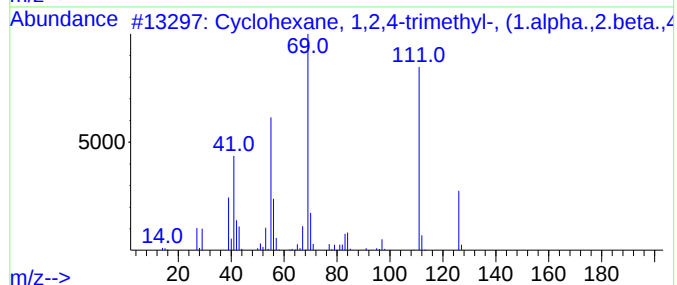
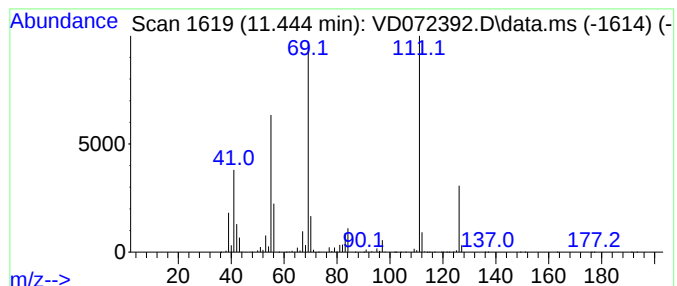
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Cyclohexane, 1,2,4-trimethyl... Concentration Rank 6

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 11.444 | 601.23 ug/l | 25135600 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 95   |
| 2    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 94   |
| 3    |    |   | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 93   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 90   |
| 5    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

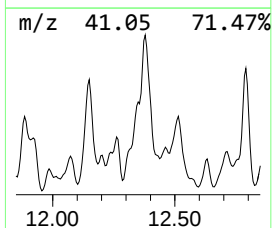
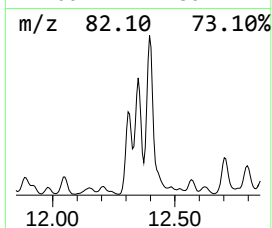
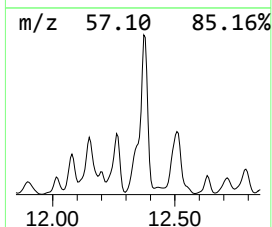
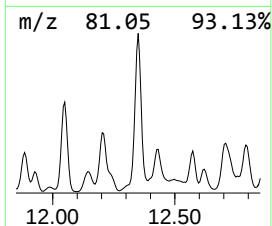
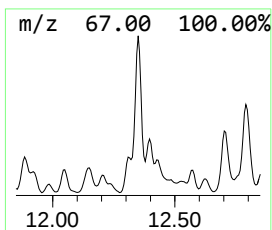
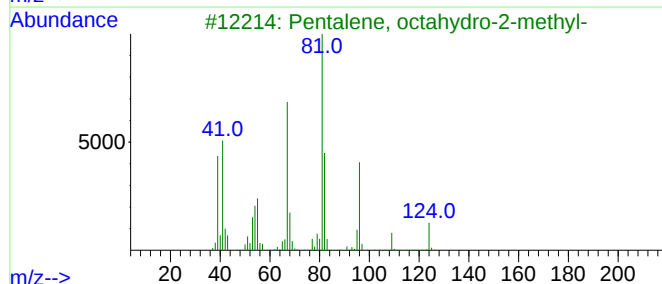
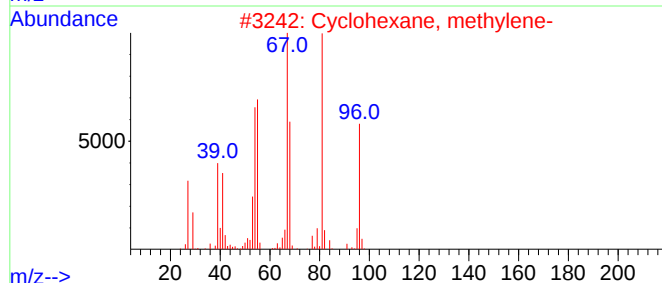
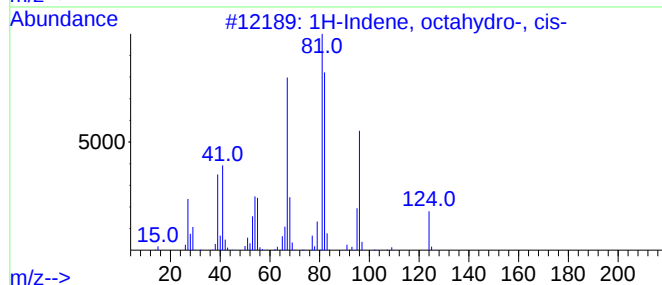
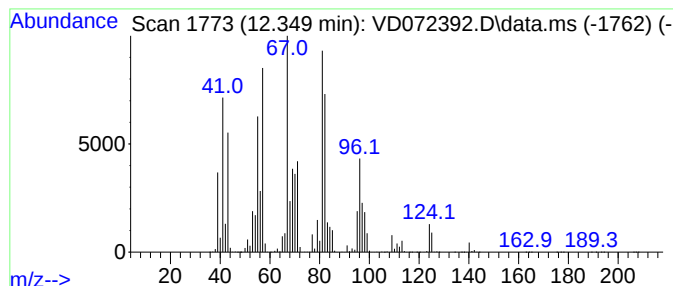
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Quant Title : SW846 8260

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

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Peak Number 9 1H-Indene, octahydro-, cis- Concentration Rank 2

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 12.350 | 932.32 ug/l | 38977700 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1H-Indene, octahydro-, cis-        | 124 | C9H16   | 004551-51-3  | 64   |
| 2    |    |   | Cyclohexane, methylene-            | 96  | C7H12   | 001192-37-6  | 60   |
| 3    |    |   | Pentalene, octahydro-2-methyl-     | 124 | C9H16   | 003868-64-2  | 55   |
| 4    |    |   | Bicyclo[3.3.1]nonane               | 124 | C9H16   | 000280-65-9  | 52   |
| 5    |    |   | 7-Methyl-8-oxabicyclo[4.3.0]nonane | 140 | C9H16O  | 1000216-87-6 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

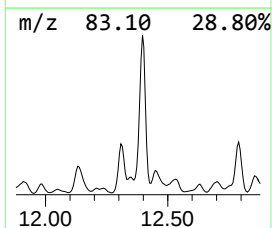
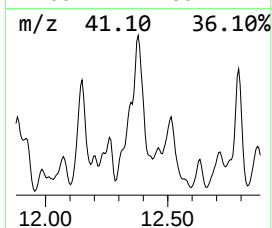
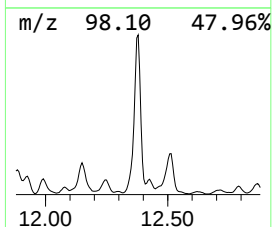
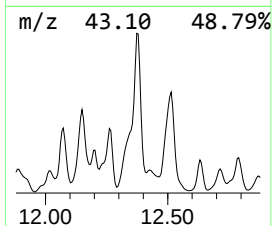
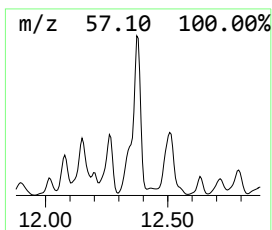
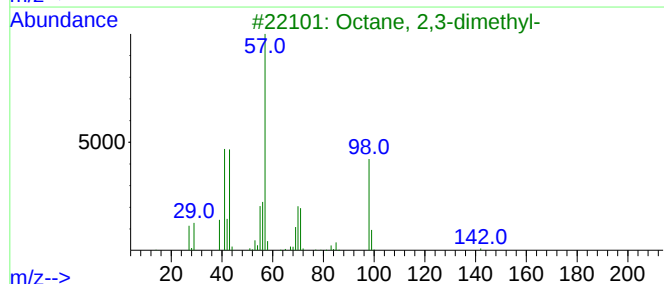
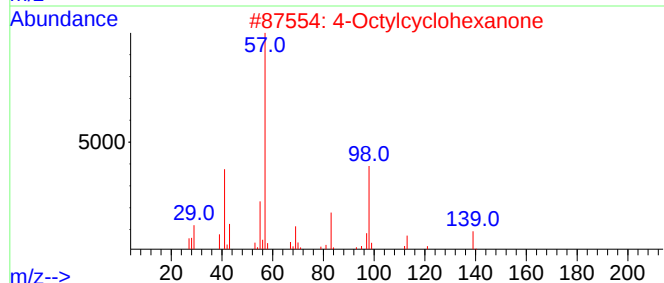
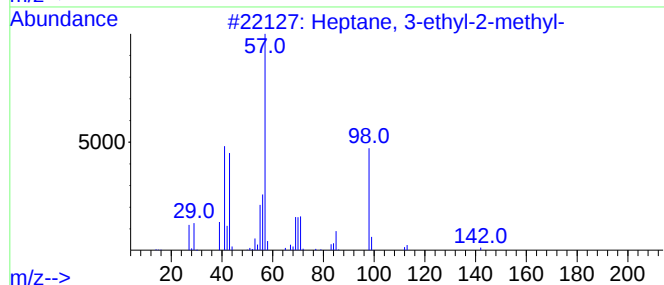
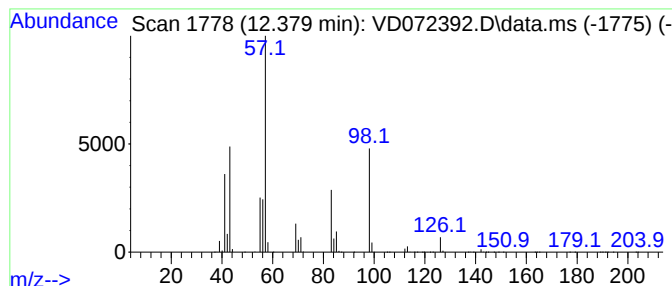
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Heptane, 3-ethyl-2-methyl- Concentration Rank 3

| R.T.   | EstConc     | Area     | Relative to ISTD | R.T.   |
|--------|-------------|----------|------------------|--------|
| 12.379 | 912.29 ug/l | 38140100 | Chlorobenzene-d5 | 11.638 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Heptane, 3-ethyl-2-methyl-        | 142 | C10H22   | 014676-29-0  | 81   |
| 2    |    |   | 4-Octylcyclohexanone              | 210 | C14H26O  | 1000428-94-1 | 59   |
| 3    |    |   | Octane, 2,3-dimethyl-             | 142 | C10H22   | 007146-60-3  | 58   |
| 4    |    |   | Carbonic acid, heptyl vinyl ester | 186 | C10H18O3 | 1010383-25-4 | 53   |
| 5    |    |   | 1-Hexanol, 2-ethyl-               | 130 | C8H18O   | 000104-76-7  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032322\  
Data File : VD072392.D  
Acq On : 23 Mar 2022 19:05  
Operator : VA/SY  
Sample : N2077-05  
Misc : 4.22G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-14A-3-1-(3.0-3.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Cyclopentane, 1... | 9.320  | 638.1   | ug/l  | 17829900 | 2                     | 8.861  | 1397050 | 50.0 |
| Cyclopentane, 1... | 9.626  | 604.5   | ug/l  | 16889800 | 2                     | 8.861  | 1397050 | 50.0 |
| Cyclohexane, 1...  | 10.503 | 450.8   | ug/l  | 18847000 | 3                     | 11.638 | 2090350 | 50.0 |
| Cyclohexane, 1...  | 10.679 | 599.4   | ug/l  | 25060100 | 3                     | 11.638 | 2090350 | 50.0 |
| Heptane, 2,5-di... | 11.050 | 464.4   | ug/l  | 19417400 | 3                     | 11.638 | 2090350 | 50.0 |
| Cyclohexane, 1...  | 11.244 | 1417.3  | ug/l  | 59254900 | 3                     | 11.638 | 2090350 | 50.0 |
| Heptane, 2,3-di... | 11.350 | 419.6   | ug/l  | 17541900 | 3                     | 11.638 | 2090350 | 50.0 |
| Cyclohexane, 1...  | 11.444 | 601.2   | ug/l  | 25135600 | 3                     | 11.638 | 2090350 | 50.0 |
| 1H-Indene, octa... | 12.350 | 932.3   | ug/l  | 38977700 | 3                     | 11.638 | 2090350 | 50.0 |
| Heptane, 3-ethy... | 12.379 | 912.3   | ug/l  | 38140100 | 3                     | 11.638 | 2090350 | 50.0 |