

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
 Data File : VX011587.D  
 Acq On : 16 Aug 2019 17:35  
 Operator : JC/SP  
 Sample : K4392-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-1

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
 Title : SW846 8260

Signal : TIC

| 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         | 4.397       | 524           | 532         | 544          | rVB      | 394672         | 1162583       | 3.53%           | 0.291%        |
| 2         | 5.574       | 717           | 725         | 733          | rVV2     | 815025         | 2716485       | 8.26%           | 0.681%        |
| 3         | 5.653       | 733           | 738         | 745          | rVV      | 453268         | 1291654       | 3.93%           | 0.324%        |
| 4         | 5.927       | 772           | 783         | 796          | rBV4     | 333205         | 1103717       | 3.35%           | 0.277%        |
| 5         | 6.452       | 861           | 869         | 885          | rVB      | 495713         | 1362009       | 4.14%           | 0.341%        |
| 6         | 6.854       | 921           | 935         | 946          | rBV      | 613057         | 1512775       | 4.60%           | 0.379%        |
| 7         | 7.043       | 957           | 966         | 980          | rBV      | 406431         | 911794        | 2.77%           | 0.229%        |
| 8         | 7.464       | 1022          | 1035        | 1043         | rBV      | 5672693        | 12861510      | 39.09%          | 3.224%        |
| 9         | 7.848       | 1088          | 1098        | 1105         | rBV2     | 570267         | 1199432       | 3.65%           | 0.301%        |
| 10        | 8.025       | 1120          | 1127        | 1142         | rVB      | 539822         | 1094869       | 3.33%           | 0.274%        |
| 11        | 8.342       | 1174          | 1179        | 1182         | rBV      | 1103484        | 1754630       | 5.33%           | 0.440%        |
| 12        | 8.378       | 1182          | 1185        | 1192         | rVB3     | 603445         | 1052072       | 3.20%           | 0.264%        |
| 13        | 8.500       | 1200          | 1205        | 1209         | rVV      | 960890         | 1672452       | 5.08%           | 0.419%        |
| 14        | 8.665       | 1225          | 1232        | 1235         | rBV      | 3671092        | 6496622       | 19.75%          | 1.629%        |
| 15        | 8.701       | 1235          | 1238        | 1248         | rVB2     | 2228306        | 4202787       | 12.77%          | 1.054%        |
| 16        | 8.835       | 1255          | 1260        | 1264         | rBV      | 969343         | 1539631       | 4.68%           | 0.386%        |
| 17        | 8.969       | 1278          | 1282        | 1289         | rVV2     | 808282         | 1463468       | 4.45%           | 0.367%        |
| 18        | 9.037       | 1289          | 1293        | 1305         | rVB      | 2333039        | 4100124       | 12.46%          | 1.028%        |
| 19        | 9.165       | 1305          | 1314        | 1319         | rBV      | 1364212        | 2228187       | 6.77%           | 0.559%        |
| 20        | 9.347       | 1338          | 1344        | 1350         | rVB      | 726093         | 1141315       | 3.47%           | 0.286%        |
| 21        | 9.445       | 1350          | 1360        | 1370         | rBV      | 1776876        | 3115784       | 9.47%           | 0.781%        |
| 22        | 9.561       | 1370          | 1379        | 1385         | rVV4     | 2175524        | 5031231       | 15.29%          | 1.261%        |
| 23        | 9.622       | 1385          | 1389        | 1393         | rVV      | 3465186        | 4866436       | 14.79%          | 1.220%        |
| 24        | 9.677       | 1393          | 1398        | 1402         | rVV      | 2332328        | 3671493       | 11.16%          | 0.920%        |
| 25        | 9.890       | 1425          | 1433        | 1436         | rBV2     | 1873831        | 4342890       | 13.20%          | 1.089%        |
| 26        | 9.957       | 1440          | 1444        | 1449         | rVB      | 3023482        | 4209553       | 12.79%          | 1.055%        |
| 27        | 10.061      | 1455          | 1461        | 1465         | rBV      | 2953182        | 4099657       | 12.46%          | 1.028%        |
| 28        | 10.110      | 1465          | 1469        | 1473         | rVB      | 1226220        | 1551175       | 4.71%           | 0.389%        |
| 29        | 10.183      | 1473          | 1481        | 1485         | rBV3     | 580167         | 1127691       | 3.43%           | 0.283%        |
| 30        | 10.250      | 1485          | 1492        | 1497         | rVB2     | 1551301        | 2447076       | 7.44%           | 0.613%        |
| 31        | 10.359      | 1497          | 1510        | 1516         | rBV2     | 6213737        | 13869301      | 42.16%          | 3.477%        |
| 32        | 10.408      | 1516          | 1518        | 1526         | rVB2     | 1624148        | 2229168       | 6.78%           | 0.559%        |
| 33        | 10.640      | 1550          | 1556        | 1563         | rBV3     | 2850672        | 4828427       | 14.68%          | 1.210%        |
| 34        | 10.725      | 1567          | 1570        | 1574         | rVB3     | 1273054        | 1488680       | 4.52%           | 0.373%        |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-1

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 35 | 10.835 | 1580 | 1588 | 1592 | rBV2 | 3752871  | 5646341  | 17.16% | 1.416% |
| 36 | 10.908 | 1597 | 1600 | 1604 | rBV  | 2781012  | 3281390  | 9.97%  | 0.823% |
| 37 | 10.951 | 1604 | 1607 | 1611 | rVB  | 1471511  | 1959659  | 5.96%  | 0.491% |
| 38 | 11.012 | 1611 | 1617 | 1621 | rBV2 | 1731900  | 2819481  | 8.57%  | 0.707% |
| 39 | 11.079 | 1621 | 1628 | 1632 | rBV3 | 2291602  | 3920430  | 11.92% | 0.983% |
| 40 | 11.134 | 1632 | 1637 | 1640 | rBV2 | 3330131  | 4931183  | 14.99% | 1.236% |
| 41 | 11.243 | 1652 | 1655 | 1658 | rVV  | 2655921  | 3369530  | 10.24% | 0.845% |
| 42 | 11.274 | 1658 | 1660 | 1664 | rVB3 | 1077198  | 1163106  | 3.54%  | 0.292% |
| 43 | 11.359 | 1669 | 1674 | 1677 | rBV  | 1882182  | 2318411  | 7.05%  | 0.581% |
| 44 | 11.432 | 1682 | 1686 | 1692 | rVV  | 2904117  | 5964269  | 18.13% | 1.495% |
| 45 | 11.506 | 1692 | 1698 | 1707 | rVB2 | 6924976  | 12360311 | 37.57% | 3.099% |
| 46 | 11.664 | 1720 | 1724 | 1731 | rVV3 | 1367066  | 3157110  | 9.60%  | 0.791% |
| 47 | 11.731 | 1731 | 1735 | 1738 | rVV3 | 916110   | 1571251  | 4.78%  | 0.394% |
| 48 | 11.768 | 1738 | 1741 | 1743 | rVV  | 2316449  | 2708419  | 8.23%  | 0.679% |
| 49 | 11.804 | 1743 | 1747 | 1757 | rVB  | 15292864 | 21013274 | 63.87% | 5.268% |
| 50 | 11.890 | 1757 | 1761 | 1763 | rBV2 | 727416   | 956854   | 2.91%  | 0.240% |
| 51 | 11.945 | 1767 | 1770 | 1774 | rVV  | 1120063  | 1652345  | 5.02%  | 0.414% |
| 52 | 11.999 | 1774 | 1779 | 1781 | rVV  | 1540986  | 2280440  | 6.93%  | 0.572% |
| 53 | 12.024 | 1781 | 1783 | 1786 | rVV3 | 1293796  | 1573149  | 4.78%  | 0.394% |
| 54 | 12.091 | 1786 | 1794 | 1797 | rVV3 | 1737832  | 4217808  | 12.82% | 1.057% |
| 55 | 12.140 | 1797 | 1802 | 1808 | rVV  | 7093592  | 10825374 | 32.90% | 2.714% |
| 56 | 12.225 | 1812 | 1816 | 1823 | rVB3 | 1357799  | 1845464  | 5.61%  | 0.463% |
| 57 | 12.298 | 1823 | 1828 | 1831 | rBV  | 2258330  | 3314603  | 10.07% | 0.831% |
| 58 | 12.371 | 1835 | 1840 | 1846 | rVB2 | 2682676  | 4241271  | 12.89% | 1.063% |
| 59 | 12.475 | 1852 | 1857 | 1861 | rVV3 | 1335587  | 1949350  | 5.93%  | 0.489% |
| 60 | 12.518 | 1861 | 1864 | 1870 | rVB2 | 1110581  | 1559421  | 4.74%  | 0.391% |
| 61 | 12.585 | 1871 | 1875 | 1877 | rBV  | 1186356  | 1647113  | 5.01%  | 0.413% |
| 62 | 12.609 | 1877 | 1879 | 1882 | rVV  | 1516790  | 1918917  | 5.83%  | 0.481% |
| 63 | 12.664 | 1885 | 1888 | 1891 | rVV  | 2028087  | 2464219  | 7.49%  | 0.618% |
| 64 | 12.755 | 1897 | 1903 | 1911 | rVB5 | 1360757  | 3292902  | 10.01% | 0.826% |
| 65 | 12.944 | 1930 | 1934 | 1936 | rVV2 | 1172499  | 1858481  | 5.65%  | 0.466% |
| 66 | 12.975 | 1936 | 1939 | 1942 | rVV  | 1642245  | 2345529  | 7.13%  | 0.588% |
| 67 | 13.018 | 1942 | 1946 | 1952 | rVB  | 2432669  | 3752722  | 11.41% | 0.941% |
| 68 | 13.091 | 1953 | 1958 | 1962 | rBV3 | 746247   | 1066503  | 3.24%  | 0.267% |
| 69 | 13.219 | 1976 | 1979 | 1983 | rVB2 | 1184021  | 1516038  | 4.61%  | 0.380% |
| 70 | 13.316 | 1989 | 1995 | 1996 | rBV4 | 1058092  | 1387852  | 4.22%  | 0.348% |
| 71 | 13.347 | 1996 | 2000 | 2005 | rVV3 | 4440920  | 6443800  | 19.59% | 1.615% |

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Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-1

## 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\_X\METHOD\82X081519W.M  
 Title : SW846 8260

|     |        |      |      |      |      |          |          |         |        |
|-----|--------|------|------|------|------|----------|----------|---------|--------|
| 72  | 13.438 | 2011 | 2015 | 2018 | rVV2 | 1310654  | 1857844  | 5.65%   | 0.466% |
| 73  | 13.475 | 2018 | 2021 | 2030 | rVB3 | 2056192  | 3710737  | 11.28%  | 0.930% |
| 74  | 13.560 | 2030 | 2035 | 2038 | rBV2 | 662310   | 982899   | 2.99%   | 0.246% |
| 75  | 13.639 | 2044 | 2048 | 2053 | rBV3 | 934747   | 1638156  | 4.98%   | 0.411% |
| 76  | 13.719 | 2058 | 2061 | 2065 | rBV2 | 722326   | 1075733  | 3.27%   | 0.270% |
| 77  | 13.834 | 2075 | 2080 | 2086 | rVB  | 10199959 | 13392415 | 40.71%  | 3.357% |
| 78  | 13.895 | 2086 | 2090 | 2097 | rVB3 | 1608864  | 2973009  | 9.04%   | 0.745% |
| 79  | 13.981 | 2097 | 2104 | 2108 | rVB6 | 985116   | 1882422  | 5.72%   | 0.472% |
| 80  | 14.133 | 2125 | 2129 | 2132 | rBV2 | 1505338  | 2042966  | 6.21%   | 0.512% |
| 81  | 14.273 | 2148 | 2152 | 2162 | rVB3 | 1899251  | 3598876  | 10.94%  | 0.902% |
| 82  | 14.377 | 2165 | 2169 | 2174 | rBV2 | 933597   | 1409162  | 4.28%   | 0.353% |
| 83  | 14.426 | 2174 | 2177 | 2181 | rVB  | 1538146  | 1778104  | 5.40%   | 0.446% |
| 84  | 14.475 | 2181 | 2185 | 2190 | rVB6 | 555241   | 1119230  | 3.40%   | 0.281% |
| 85  | 14.542 | 2190 | 2196 | 2200 | rBV3 | 1076494  | 2548136  | 7.75%   | 0.639% |
| 86  | 14.694 | 2217 | 2221 | 2231 | rVB  | 22381102 | 32900299 | 100.00% | 8.248% |
| 87  | 14.786 | 2231 | 2236 | 2238 | rBV  | 1102206  | 1647998  | 5.01%   | 0.413% |
| 88  | 14.840 | 2238 | 2245 | 2252 | rVV  | 15033827 | 20383093 | 61.95%  | 5.110% |
| 89  | 15.249 | 2307 | 2312 | 2313 | rBV  | 1069954  | 1479669  | 4.50%   | 0.371% |
| 90  | 15.273 | 2313 | 2316 | 2320 | rVV  | 2117036  | 2798351  | 8.51%   | 0.702% |
| 91  | 15.444 | 2339 | 2344 | 2347 | rBV  | 2798000  | 4014059  | 12.20%  | 1.006% |
| 92  | 15.474 | 2347 | 2349 | 2355 | rVV2 | 1042231  | 1559279  | 4.74%   | 0.391% |
| 93  | 15.548 | 2355 | 2361 | 2373 | rVB  | 8422255  | 14110687 | 42.89%  | 3.538% |
| 94  | 15.688 | 2378 | 2384 | 2387 | rVV  | 8472212  | 13255021 | 40.29%  | 3.323% |
| 95  | 15.724 | 2387 | 2390 | 2399 | rVB  | 4977728  | 7350189  | 22.34%  | 1.843% |
| 96  | 15.907 | 2412 | 2420 | 2431 | rVB  | 2340371  | 6037854  | 18.35%  | 1.514% |
| 97  | 16.066 | 2440 | 2446 | 2457 | rVB  | 1434168  | 2648367  | 8.05%   | 0.664% |
| 98  | 16.438 | 2500 | 2507 | 2515 | rVB2 | 1014890  | 2126423  | 6.46%   | 0.533% |
| 99  | 16.688 | 2543 | 2548 | 2553 | rVB  | 798511   | 1440737  | 4.38%   | 0.361% |
| 100 | 16.742 | 2553 | 2557 | 2564 | rBV2 | 582359   | 1084908  | 3.30%   | 0.272% |

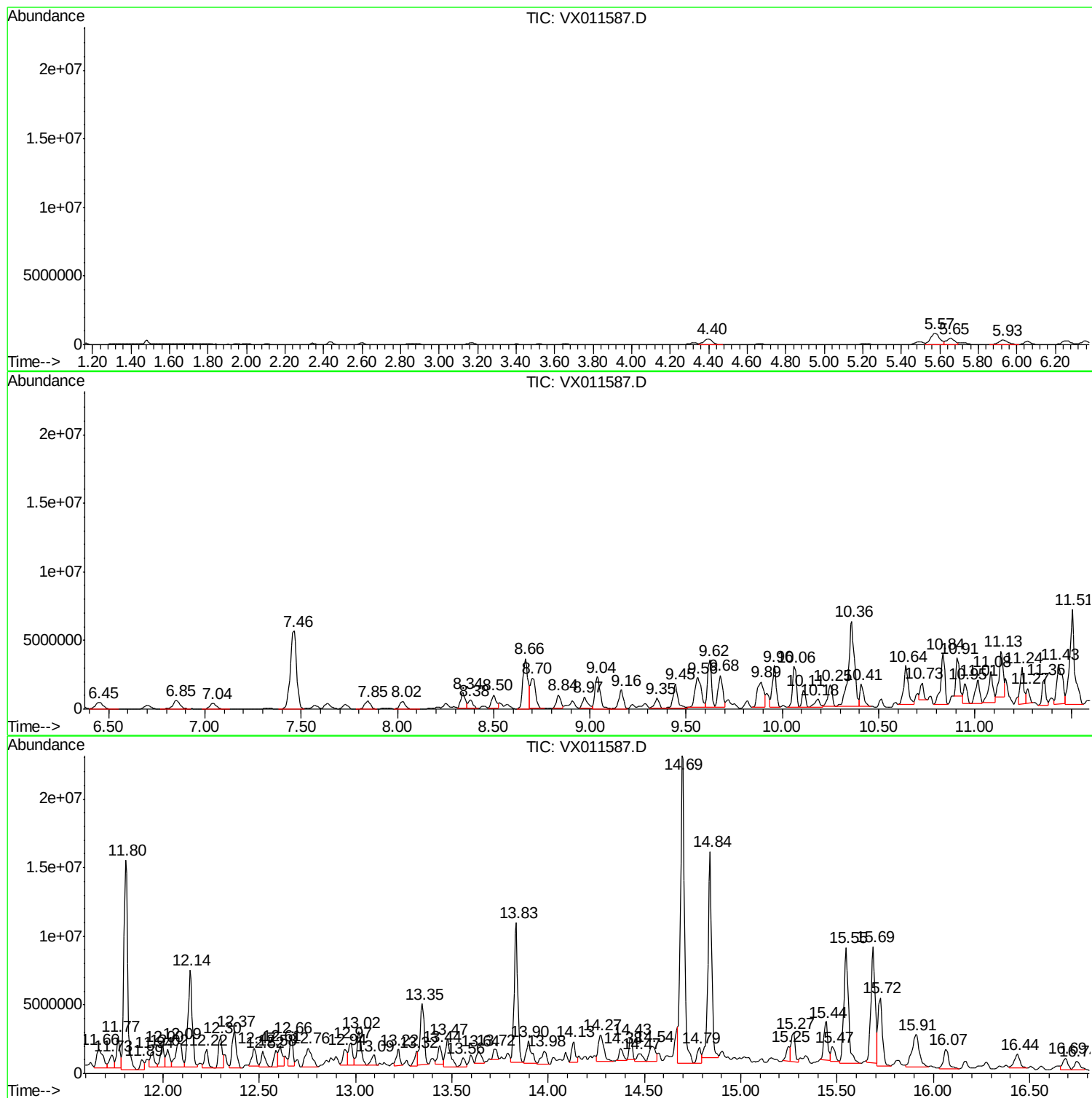
Sum of corrected areas: 398887621

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
GW-1

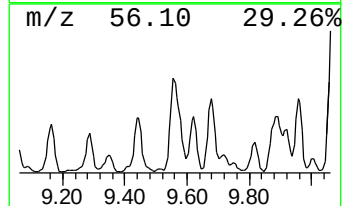
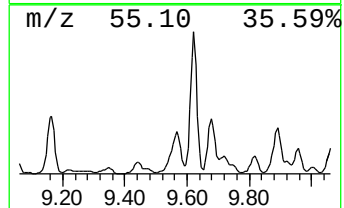
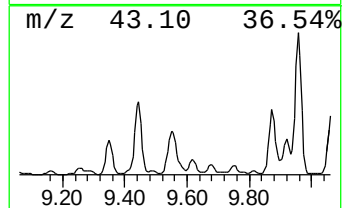
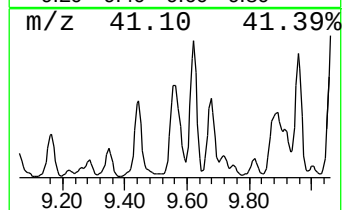
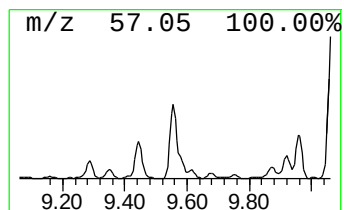
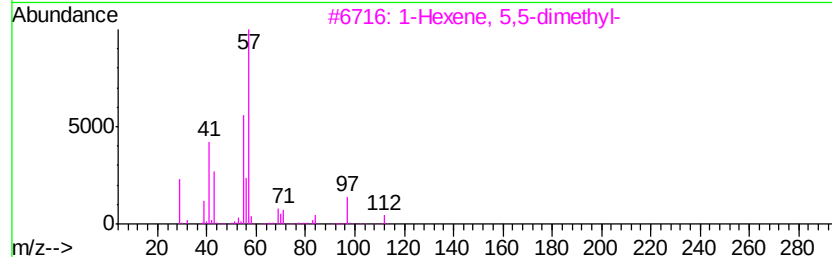
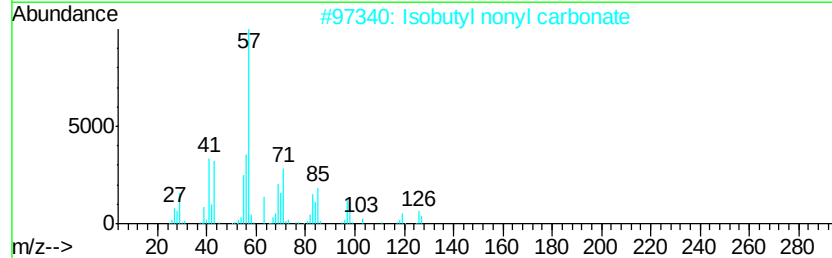
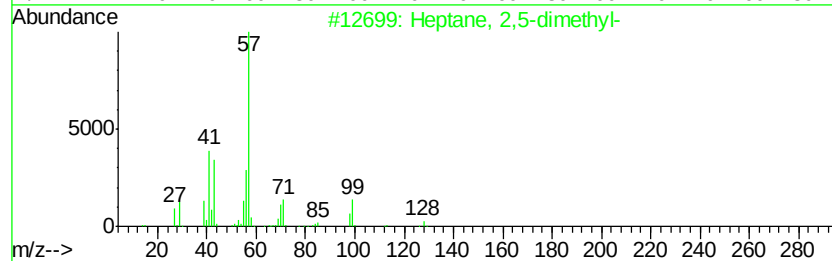
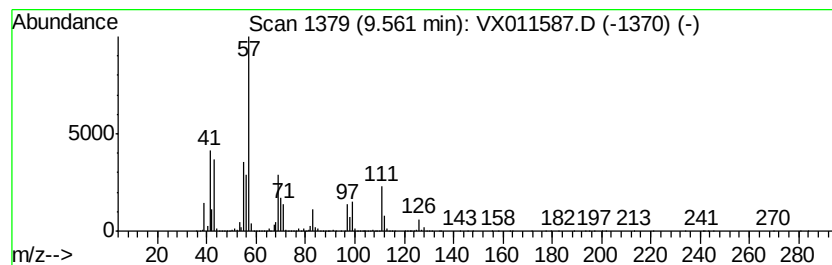
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

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

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Peak Number 1 Heptane, 2,5-dimethyl- Concentration Rank 5

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.56 | 162.18 ug/l | 5031230 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------|-----|----------|-------------|------|
| 1    | 5  | Heptane, 2,5-dimethyl-   | 128 | C9H20    | 002216-30-0 | 55   |
| 2    |    | Isobutyl nonyl carbonate | 244 | C14H28O3 | 959311-27-4 | 47   |
| 3    |    | 1-Hexene, 5,5-dimethyl-  | 112 | C8H16    | 007116-86-1 | 46   |
| 4    |    | Octane, 3-methyl-        | 128 | C9H20    | 002216-33-3 | 43   |
| 5    |    | Heptane, 3,5-dimethyl-   | 128 | C9H20    | 000926-82-9 | 38   |



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Quant Title : SW846 8260

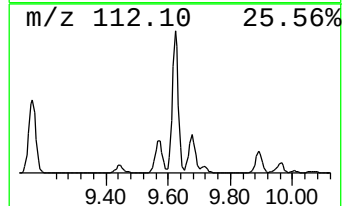
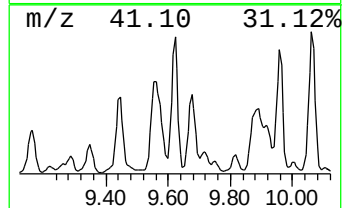
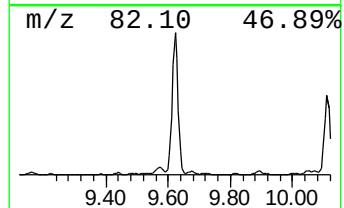
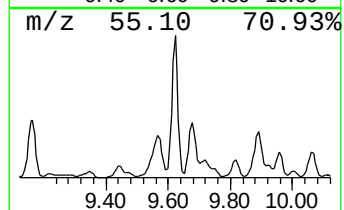
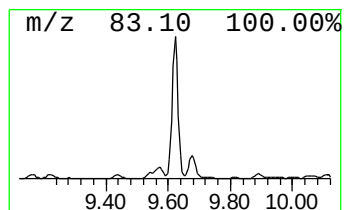
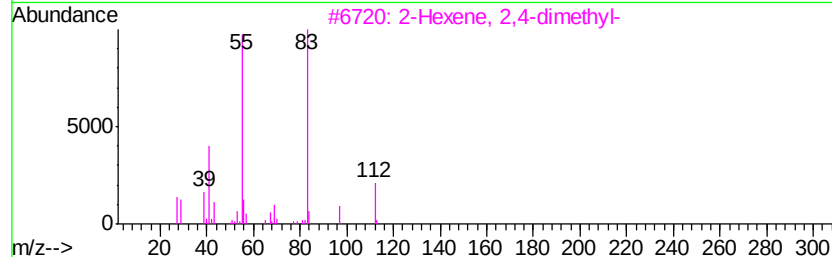
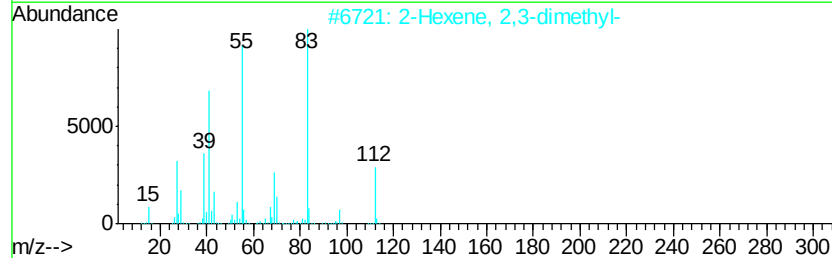
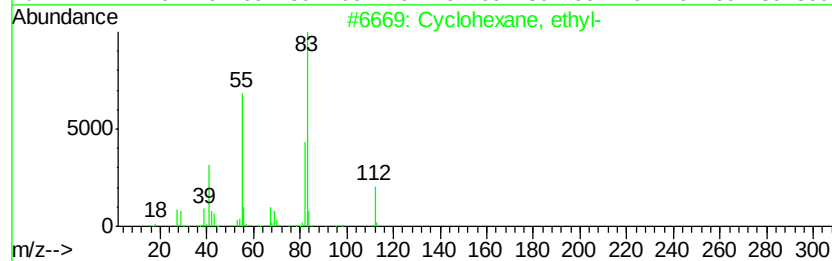
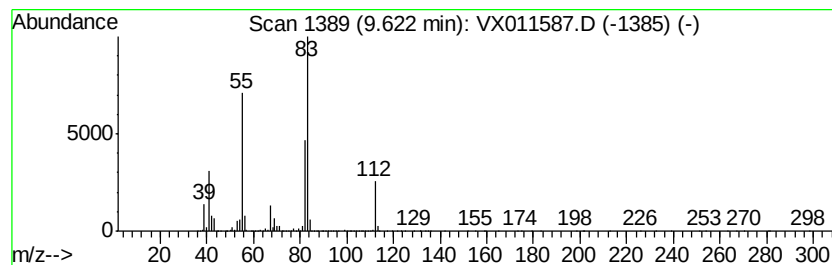
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Cyclohexane, ethyl- Concentration Rank 7

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.62 | 156.86 ug/l | 4866440 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Cyclohexane, ethyl-                 | 112 | C8H16    | 001678-91-7  | 91   |
| 2    |    | 2-Hexene, 2,3-dimethyl-             | 112 | C8H16    | 007145-20-2  | 58   |
| 3    |    | 2-Hexene, 2,4-dimethyl-             | 112 | C8H16    | 014255-23-3  | 53   |
| 4    |    | Oxalic acid, cyclohexyl dodecyl ... | 340 | C20H36O4 | 1000309-31-4 | 53   |
| 5    |    | 2-Pentene, 3-ethyl-2-methyl-        | 112 | C8H16    | 019780-67-7  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

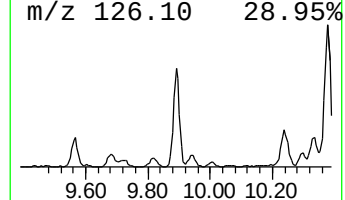
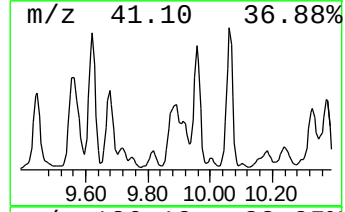
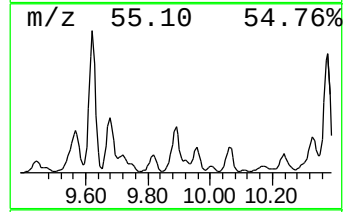
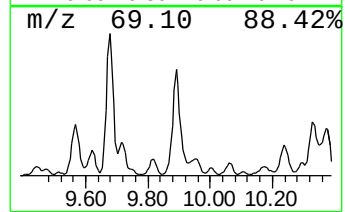
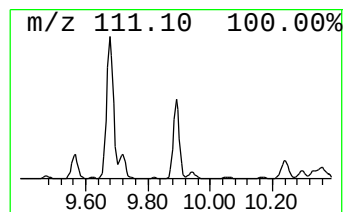
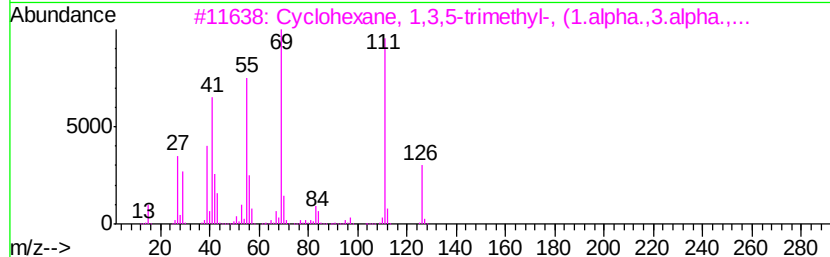
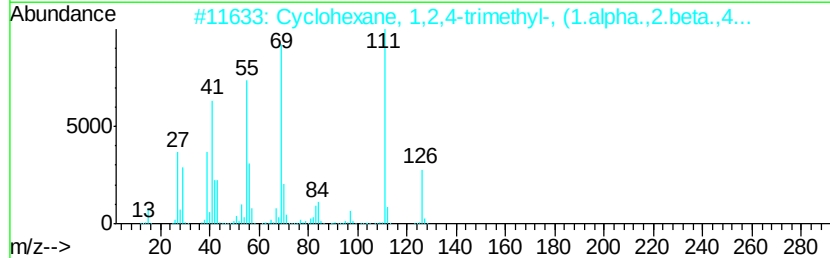
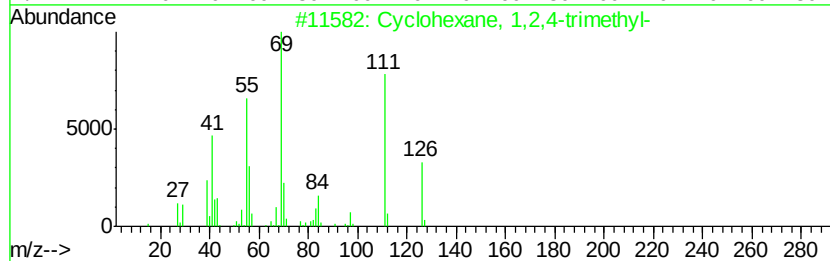
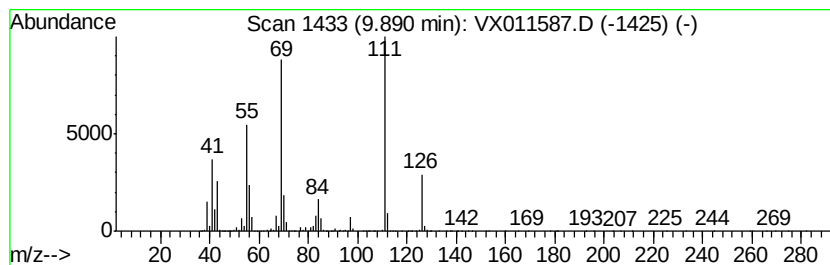
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Cyclohexane, 1,2,4-trimethyl- Concentration Rank 9

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.89 | 139.99 ug/l | 4342890 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,2,4-trimethyl-       | 126 | C9H18   | 002234-75-5 | 93   |
| 2    |    | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18   | 007667-60-9 | 93   |
| 3    |    | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 90   |
| 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 X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
GW-1

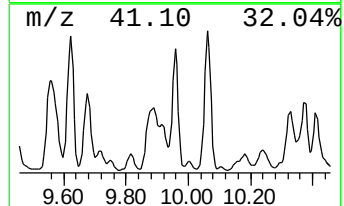
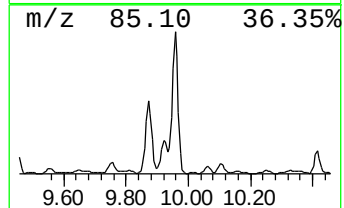
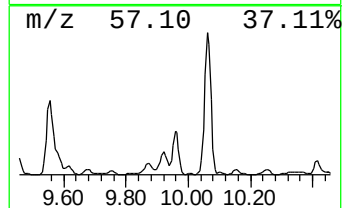
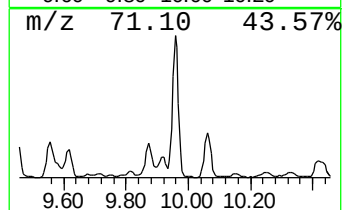
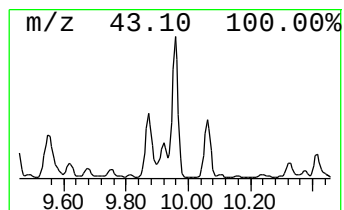
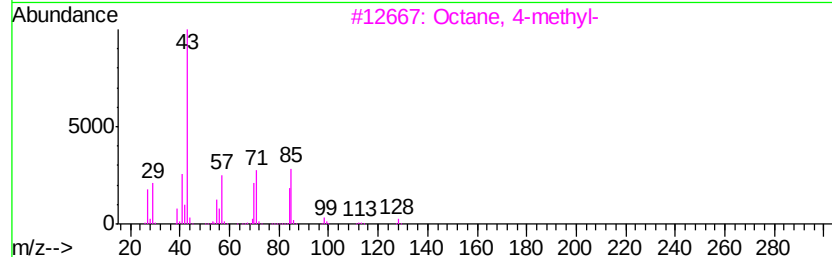
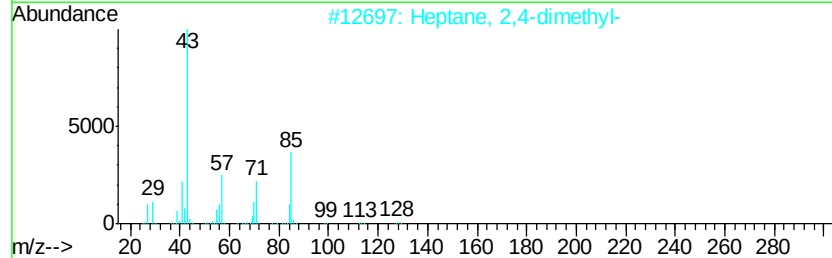
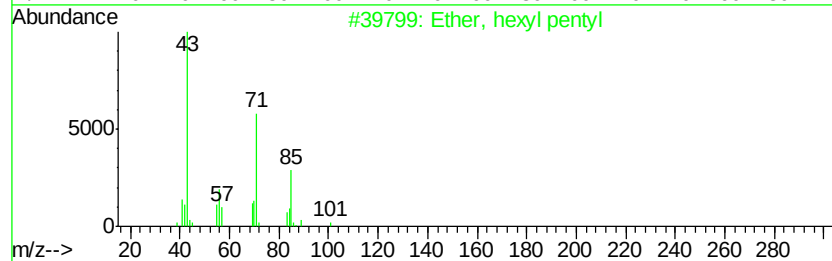
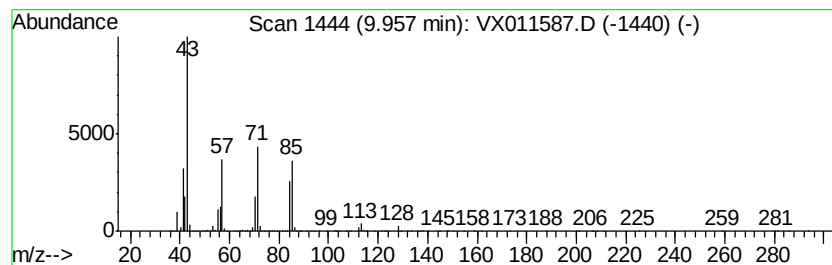
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Ether, hexyl pentyl Concentration Rank 10

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.96 | 135.69 ug/l | 4209550 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Ether, hexyl pentyl      | 172 | C11H24O | 032357-83-8 | 64   |
| 2    |    | Heptane, 2,4-dimethyl-   | 128 | C9H20   | 002213-23-2 | 64   |
| 3    |    | Octane, 4-methyl-        | 128 | C9H20   | 002216-34-4 | 58   |
| 4    |    | Hexane, 3,3-dimethyl-    | 114 | C8H18   | 000563-16-6 | 53   |
| 5    |    | Hexane, 2,3,4-trimethyl- | 128 | C9H20   | 000921-47-1 | 53   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
GW-1

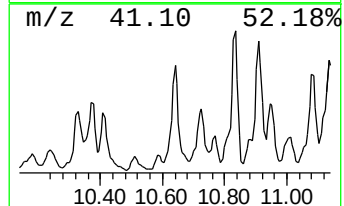
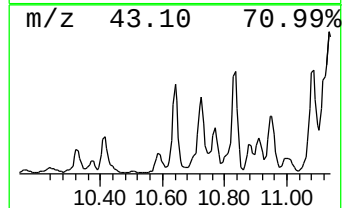
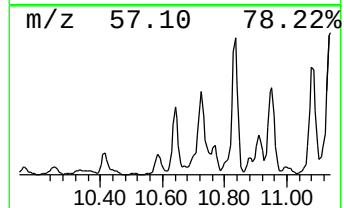
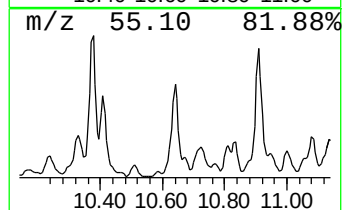
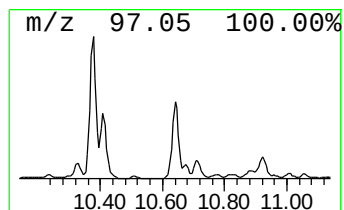
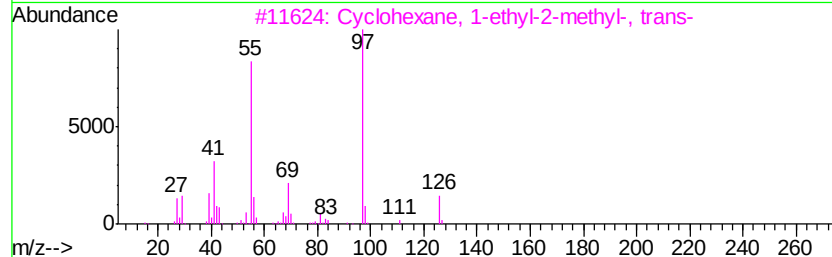
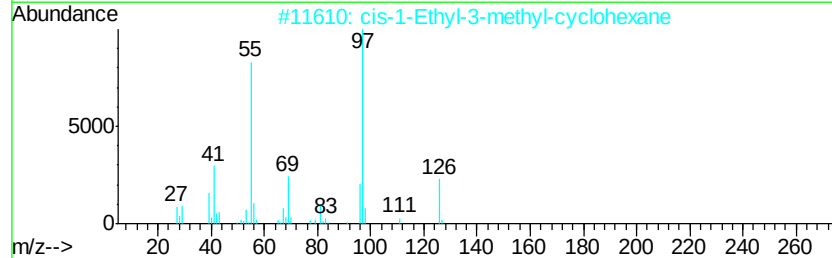
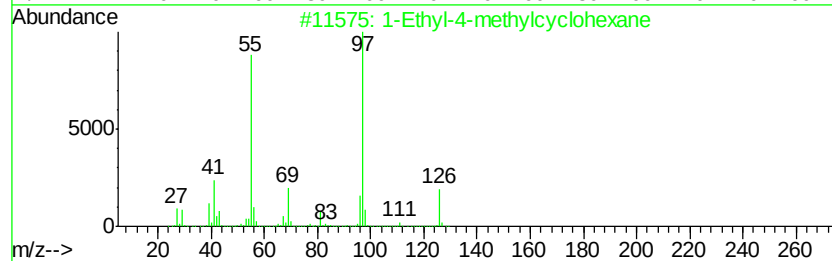
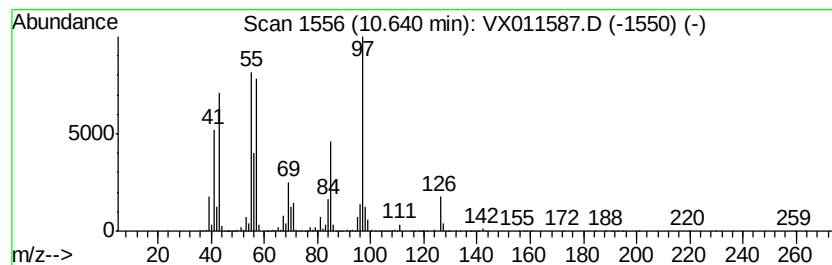
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 1-Ethyl-4-methylcyclohexane Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.64 | 155.64 ug/l | 4828430 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 55   |
| 2    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 55   |
| 3    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 55   |
| 4    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 49   |
| 5    |    | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 46   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

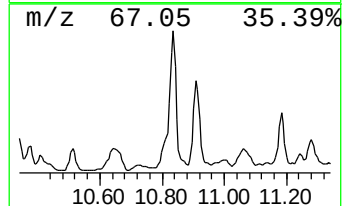
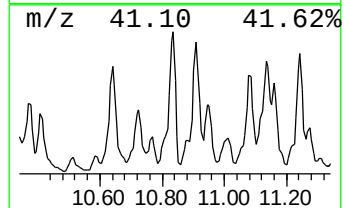
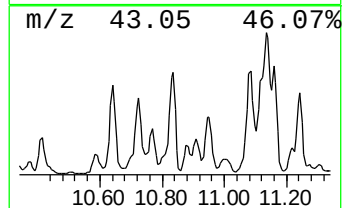
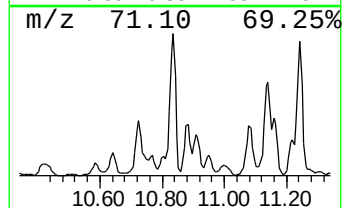
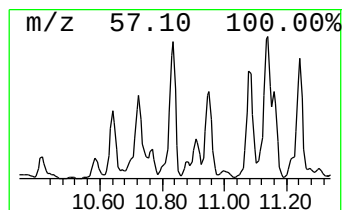
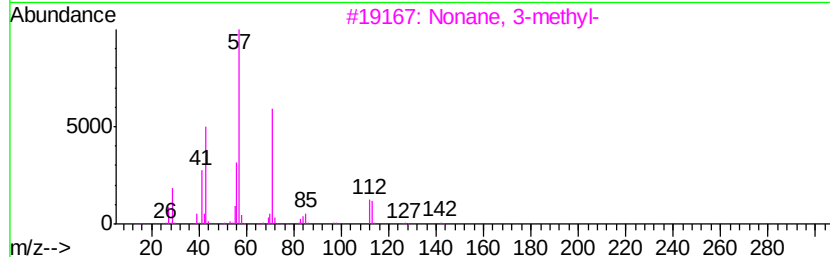
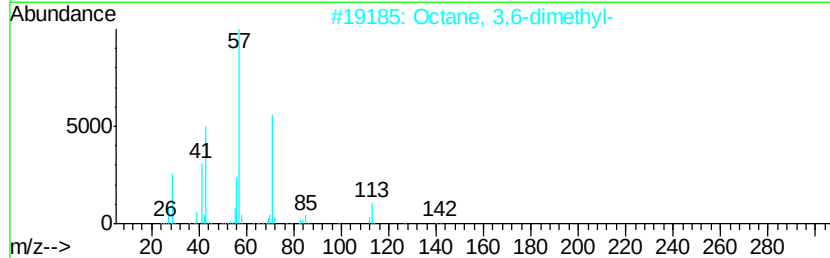
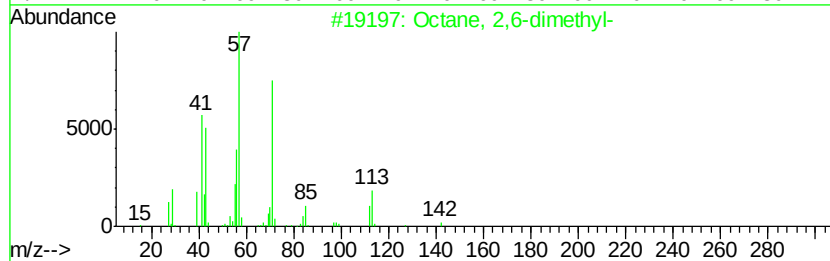
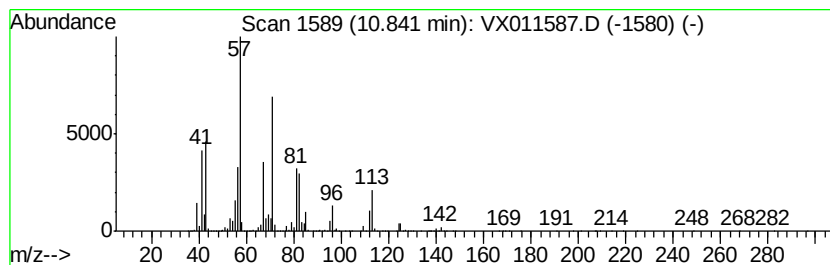
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Octane, 2,6-dimethyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.84 | 182.00 ug/l | 5646340 | Chlorobenzene-d5 | 10.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 70   |
| 2    |    | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 64   |
| 3    |    | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 60   |
| 4    |    | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 43   |
| 5    |    | Undecane, 6,6-dimethyl-             | 184 | C13H28    | 017312-76-4  | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

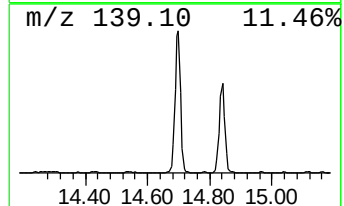
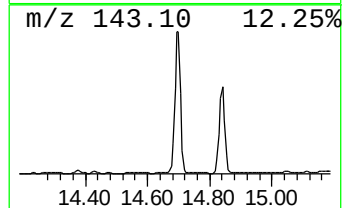
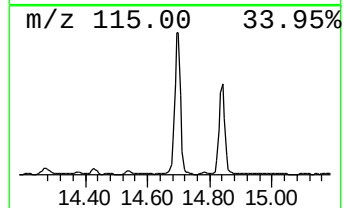
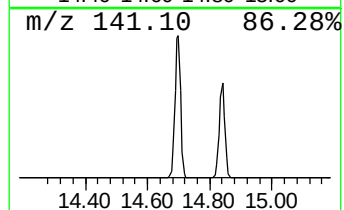
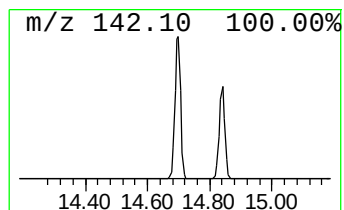
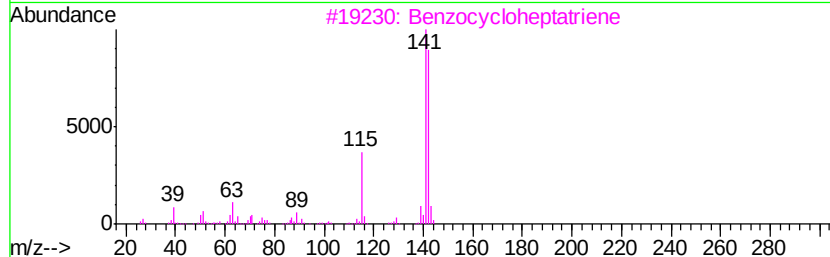
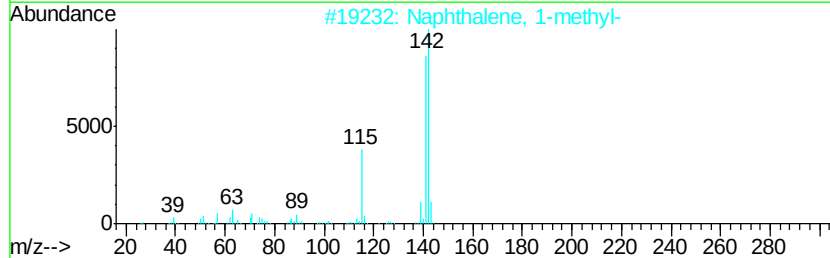
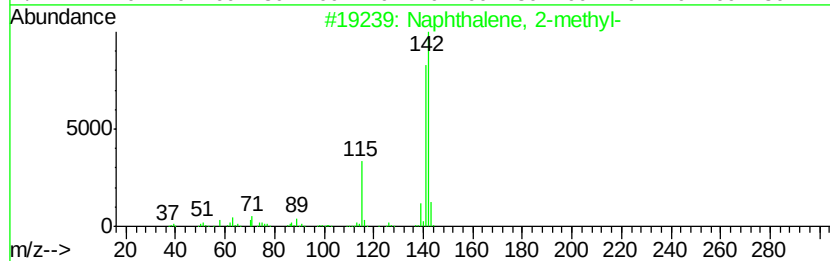
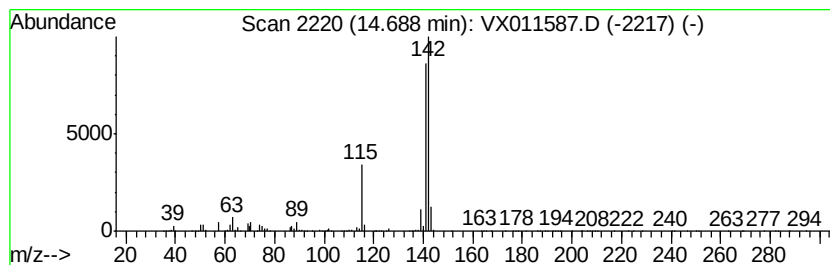
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 14.69 | 390.02 ug/l | 32900300 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 97   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 91   |
| 5    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

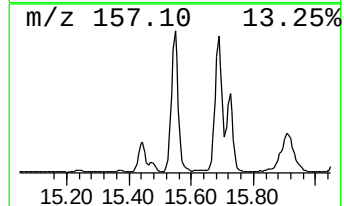
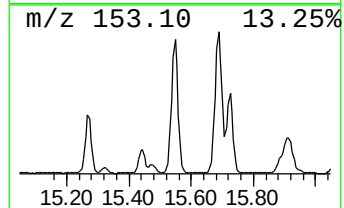
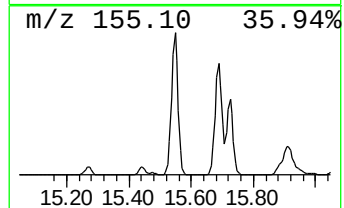
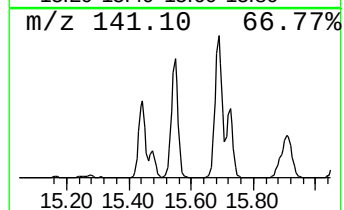
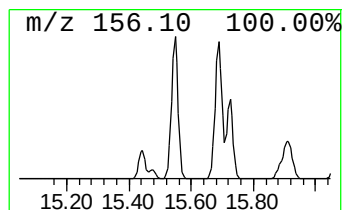
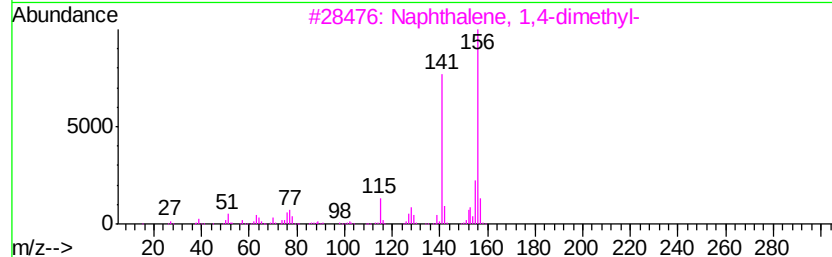
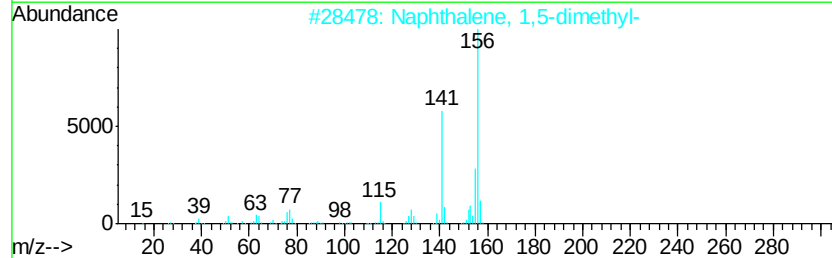
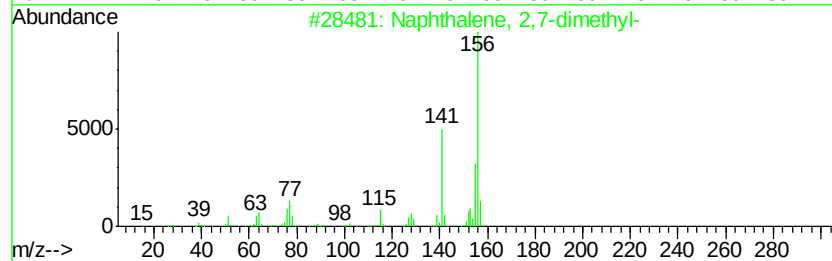
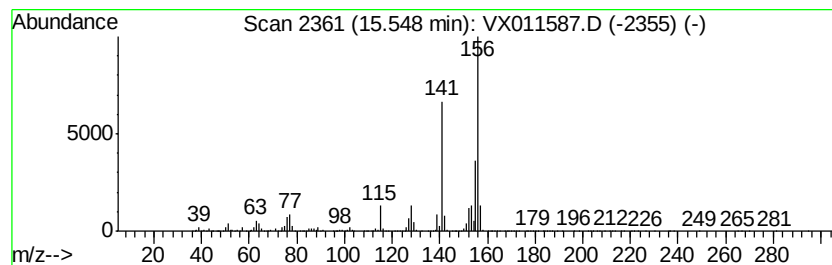
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Naphthalene, 2,7-dimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD       | R.T.  |
|-------|-------------|----------|------------------------|-------|
| 15.55 | 167.28 ug/l | 14110700 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 2    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 3    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081619\  
Data File : VX011587.D  
Acq On : 16 Aug 2019 17:35  
Operator : JC/SP  
Sample : K4392-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Heptane, 2,5-dime... | 9.56  | 162.2   | ug/l  | 5031230  | 3                     | 10.11 | 1551180 | 50.0 |
| Cyclohexane, ethyl-  | 9.62  | 156.9   | ug/l  | 4866440  | 3                     | 10.11 | 1551180 | 50.0 |
| Cyclohexane, 1,2,... | 9.89  | 140.0   | ug/l  | 4342890  | 3                     | 10.11 | 1551180 | 50.0 |
| Ether, hexyl pentyl  | 9.96  | 135.7   | ug/l  | 4209550  | 3                     | 10.11 | 1551180 | 50.0 |
| 1-Ethyl-4-methylc... | 10.64 | 155.6   | ug/l  | 4828430  | 3                     | 10.11 | 1551180 | 50.0 |
| Octane, 2,6-dimet... | 10.84 | 182.0   | ug/l  | 5646340  | 3                     | 10.11 | 1551180 | 50.0 |
| Naphthalene, 1-me... | 14.69 | 390.0   | ug/l  | 32900300 | 4                     | 12.08 | 4217810 | 50.0 |
| Naphthalene, 2,7-... | 15.55 | 167.3   | ug/l  | 14110700 | 4                     | 12.08 | 4217810 | 50.0 |