

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
 Data File : VW013508.D  
 Acq On : 09 Oct 2019 17:02  
 Operator : SY/VA  
 Sample : K5292-01  
 Misc : 5.05G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20190850-COMPOSITE-B

## 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\_W\METHOD\82W100819S.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         | 4.147       | 357           | 368         | 372          | rBV      | 15338          | 46396         | 2.83%           | 0.293%        |
| 2         | 4.196       | 372           | 376         | 387          | rVB2     | 17810          | 46601         | 2.84%           | 0.294%        |
| 3         | 4.915       | 481           | 494         | 500          | rBV3     | 9373           | 38422         | 2.34%           | 0.242%        |
| 4         | 5.927       | 650           | 660         | 673          | rVB4     | 6288           | 19656         | 1.20%           | 0.124%        |
| 5         | 7.147       | 849           | 860         | 879          | rBV2     | 27468          | 97908         | 5.97%           | 0.618%        |
| 6         | 7.884       | 968           | 981         | 985          | rBV      | 190159         | 442234        | 26.96%          | 2.791%        |
| 7         | 7.945       | 985           | 991         | 1000         | rVV      | 396944         | 900716        | 54.92%          | 5.684%        |
| 8         | 8.031       | 1000          | 1005        | 1016         | rVV2     | 14291          | 33792         | 2.06%           | 0.213%        |
| 9         | 8.159       | 1016          | 1026        | 1031         | rVV      | 27420          | 64082         | 3.91%           | 0.404%        |
| 10        | 8.256       | 1032          | 1042        | 1046         | rVV      | 192011         | 501833        | 30.60%          | 3.167%        |
| 11        | 8.305       | 1046          | 1050        | 1061         | rVV      | 175729         | 378747        | 23.09%          | 2.390%        |
| 12        | 8.427       | 1061          | 1070        | 1076         | rVV3     | 17555          | 48422         | 2.95%           | 0.306%        |
| 13        | 8.500       | 1078          | 1082        | 1088         | rVV5     | 14755          | 34453         | 2.10%           | 0.217%        |
| 14        | 8.573       | 1088          | 1094        | 1104         | rVV2     | 31538          | 74877         | 4.57%           | 0.473%        |
| 15        | 8.695       | 1106          | 1114        | 1121         | rVB2     | 10926          | 21564         | 1.31%           | 0.136%        |
| 16        | 8.841       | 1129          | 1138        | 1150         | rBV      | 551576         | 1069210       | 65.19%          | 6.747%        |
| 17        | 9.329       | 1202          | 1218        | 1224         | rBV3     | 88475          | 246258        | 15.01%          | 1.554%        |
| 18        | 9.384       | 1224          | 1227        | 1235         | rVB3     | 13679          | 24676         | 1.50%           | 0.156%        |
| 19        | 9.512       | 1242          | 1248        | 1254         | rVV4     | 11402          | 20778         | 1.27%           | 0.131%        |
| 20        | 9.610       | 1254          | 1264        | 1275         | rVB      | 43719          | 89447         | 5.45%           | 0.564%        |
| 21        | 9.750       | 1280          | 1287        | 1299         | rVB3     | 48120          | 99428         | 6.06%           | 0.627%        |
| 22        | 9.896       | 1299          | 1311        | 1315         | rBV2     | 32184          | 72168         | 4.40%           | 0.455%        |
| 23        | 9.957       | 1315          | 1321        | 1325         | rBV2     | 52223          | 96324         | 5.87%           | 0.608%        |
| 24        | 10.091      | 1334          | 1343        | 1355         | rBV3     | 43776          | 118219        | 7.21%           | 0.746%        |
| 25        | 10.213      | 1356          | 1363        | 1365         | rBV4     | 11859          | 25294         | 1.54%           | 0.160%        |
| 26        | 10.244      | 1365          | 1368        | 1373         | rVB3     | 21254          | 33547         | 2.05%           | 0.212%        |
| 27        | 10.323      | 1373          | 1381        | 1395         | rBV      | 885414         | 1640097       | 100.00%         | 10.350%       |
| 28        | 10.445      | 1396          | 1401        | 1404         | rBV2     | 14040          | 24278         | 1.48%           | 0.153%        |
| 29        | 10.506      | 1404          | 1411        | 1418         | rVB5     | 57281          | 137741        | 8.40%           | 0.869%        |
| 30        | 10.616      | 1418          | 1429        | 1433         | rBV4     | 24591          | 52801         | 3.22%           | 0.333%        |
| 31        | 10.664      | 1433          | 1437        | 1440         | rVV      | 47873          | 75721         | 4.62%           | 0.478%        |
| 32        | 10.707      | 1440          | 1444        | 1447         | rVV      | 30887          | 50978         | 3.11%           | 0.322%        |
| 33        | 10.756      | 1447          | 1452        | 1458         | rVB5     | 29191          | 61536         | 3.75%           | 0.388%        |
| 34        | 10.847      | 1463          | 1467        | 1472         | rVB3     | 19904          | 32665         | 1.99%           | 0.206%        |

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 Sample : K5292-01  
 Misc : 5.05G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20190850-COMPOSITE-B

## 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\_W\METHOD\82W100819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 10.933 | 1472 | 1481 | 1487 | rBV  | 69911  | 123261  | 7.52%  | 0.778% |
| 36 | 11.036 | 1487 | 1498 | 1500 | rBV5 | 32308  | 82329   | 5.02%  | 0.520% |
| 37 | 11.061 | 1500 | 1502 | 1506 | rVB2 | 30057  | 38049   | 2.32%  | 0.240% |
| 38 | 11.103 | 1506 | 1509 | 1513 | rBV3 | 17517  | 28313   | 1.73%  | 0.179% |
| 39 | 11.176 | 1517 | 1521 | 1525 | rVV2 | 51925  | 69318   | 4.23%  | 0.437% |
| 40 | 11.231 | 1525 | 1530 | 1535 | rVB  | 125820 | 215026  | 13.11% | 1.357% |
| 41 | 11.286 | 1535 | 1539 | 1542 | rBV4 | 19267  | 24835   | 1.51%  | 0.157% |
| 42 | 11.335 | 1542 | 1547 | 1552 | rVB4 | 52234  | 90103   | 5.49%  | 0.569% |
| 43 | 11.439 | 1552 | 1564 | 1571 | rVB4 | 75624  | 230735  | 14.07% | 1.456% |
| 44 | 11.512 | 1571 | 1576 | 1581 | rBV  | 58628  | 94161   | 5.74%  | 0.594% |
| 45 | 11.628 | 1589 | 1595 | 1608 | rBV  | 674241 | 1175326 | 71.66% | 7.417% |
| 46 | 11.768 | 1614 | 1618 | 1620 | rBV2 | 23467  | 31374   | 1.91%  | 0.198% |
| 47 | 11.804 | 1620 | 1624 | 1631 | rBV6 | 24847  | 51180   | 3.12%  | 0.323% |
| 48 | 11.871 | 1631 | 1635 | 1639 | rBV  | 42224  | 70997   | 4.33%  | 0.448% |
| 49 | 11.975 | 1647 | 1652 | 1656 | rBV5 | 20651  | 41252   | 2.52%  | 0.260% |
| 50 | 12.140 | 1671 | 1679 | 1686 | rBV3 | 79775  | 198764  | 12.12% | 1.254% |
| 51 | 12.249 | 1690 | 1697 | 1702 | rVB  | 103964 | 178388  | 10.88% | 1.126% |
| 52 | 12.359 | 1702 | 1715 | 1723 | rBV6 | 103049 | 429035  | 26.16% | 2.708% |
| 53 | 12.451 | 1727 | 1730 | 1736 | rBV7 | 15034  | 34927   | 2.13%  | 0.220% |
| 54 | 12.512 | 1736 | 1740 | 1742 | rBV3 | 15334  | 25797   | 1.57%  | 0.163% |
| 55 | 12.615 | 1751 | 1757 | 1766 | rVB2 | 599615 | 1027016 | 62.62% | 6.481% |
| 56 | 12.701 | 1766 | 1771 | 1776 | rBV4 | 26556  | 53015   | 3.23%  | 0.335% |
| 57 | 12.780 | 1779 | 1784 | 1790 | rVB2 | 90983  | 165817  | 10.11% | 1.046% |
| 58 | 12.859 | 1790 | 1797 | 1801 | rBV5 | 43187  | 96749   | 5.90%  | 0.611% |
| 59 | 12.932 | 1802 | 1809 | 1818 | rBV5 | 89011  | 288821  | 17.61% | 1.823% |
| 60 | 13.079 | 1823 | 1833 | 1837 | rBV5 | 43965  | 103373  | 6.30%  | 0.652% |
| 61 | 13.127 | 1837 | 1841 | 1843 | rVV3 | 32420  | 52996   | 3.23%  | 0.334% |
| 62 | 13.164 | 1843 | 1847 | 1855 | rVV3 | 112412 | 209676  | 12.78% | 1.323% |
| 63 | 13.261 | 1859 | 1863 | 1865 | rVV3 | 29118  | 47617   | 2.90%  | 0.300% |
| 64 | 13.292 | 1865 | 1868 | 1872 | rVV  | 38351  | 60799   | 3.71%  | 0.384% |
| 65 | 13.341 | 1873 | 1876 | 1879 | rVV4 | 35516  | 56123   | 3.42%  | 0.354% |
| 66 | 13.377 | 1879 | 1882 | 1885 | rVV4 | 29702  | 49700   | 3.03%  | 0.314% |
| 67 | 13.444 | 1886 | 1893 | 1897 | rVV7 | 79974  | 206967  | 12.62% | 1.306% |
| 68 | 13.481 | 1897 | 1899 | 1903 | rVV3 | 56641  | 87310   | 5.32%  | 0.551% |
| 69 | 13.554 | 1906 | 1911 | 1919 | rVV  | 658985 | 1100722 | 67.11% | 6.946% |
| 70 | 13.621 | 1919 | 1922 | 1929 | rVB5 | 34738  | 50966   | 3.11%  | 0.322% |
| 71 | 13.700 | 1930 | 1935 | 1938 | rBV6 | 34685  | 60971   | 3.72%  | 0.385% |

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Instrument :  
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 ClientSampleId :  
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## 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\_W\METHOD\82W100819S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 13.798 | 1948 | 1951 | 1953 | rBV3 | 12663  | 19401  | 1.18%  | 0.122% |
| 73 | 13.877 | 1959 | 1964 | 1968 | rBV4 | 129396 | 221040 | 13.48% | 1.395% |
| 74 | 14.017 | 1983 | 1987 | 1988 | rBV3 | 23170  | 31999  | 1.95%  | 0.202% |
| 75 | 14.066 | 1993 | 1995 | 2003 | rVB3 | 42143  | 76115  | 4.64%  | 0.480% |
| 76 | 14.133 | 2003 | 2006 | 2011 | rVB3 | 67991  | 97838  | 5.97%  | 0.617% |
| 77 | 14.200 | 2012 | 2017 | 2023 | rBV6 | 44434  | 92612  | 5.65%  | 0.584% |
| 78 | 14.261 | 2023 | 2027 | 2033 | rVB5 | 36389  | 69502  | 4.24%  | 0.439% |
| 79 | 14.322 | 2034 | 2037 | 2038 | rBV2 | 16408  | 19753  | 1.20%  | 0.125% |
| 80 | 14.383 | 2038 | 2047 | 2051 | rBV8 | 94220  | 194946 | 11.89% | 1.230% |
| 81 | 14.426 | 2051 | 2054 | 2057 | rBV4 | 24560  | 28433  | 1.73%  | 0.179% |
| 82 | 14.499 | 2062 | 2066 | 2069 | rBV3 | 39401  | 55337  | 3.37%  | 0.349% |
| 83 | 14.548 | 2070 | 2074 | 2080 | rVB7 | 60378  | 92725  | 5.65%  | 0.585% |
| 84 | 14.725 | 2096 | 2103 | 2108 | rBV6 | 71984  | 143962 | 8.78%  | 0.908% |
| 85 | 14.792 | 2110 | 2114 | 2118 | rVV3 | 65334  | 128295 | 7.82%  | 0.810% |
| 86 | 14.840 | 2118 | 2122 | 2130 | rVB3 | 121234 | 230207 | 14.04% | 1.453% |
| 87 | 15.060 | 2155 | 2158 | 2162 | rVB6 | 36271  | 53772  | 3.28%  | 0.339% |
| 88 | 15.249 | 2185 | 2189 | 2196 | rVB9 | 60088  | 132563 | 8.08%  | 0.837% |
| 89 | 15.328 | 2197 | 2202 | 2209 | rVV2 | 108775 | 187180 | 11.41% | 1.181% |
| 90 | 15.560 | 2236 | 2240 | 2248 | rVB7 | 48948  | 117261 | 7.15%  | 0.740% |
| 91 | 15.730 | 2264 | 2268 | 2276 | rVB6 | 53721  | 91950  | 5.61%  | 0.580% |
| 92 | 16.285 | 2356 | 2359 | 2366 | rVB3 | 48629  | 88552  | 5.40%  | 0.559% |

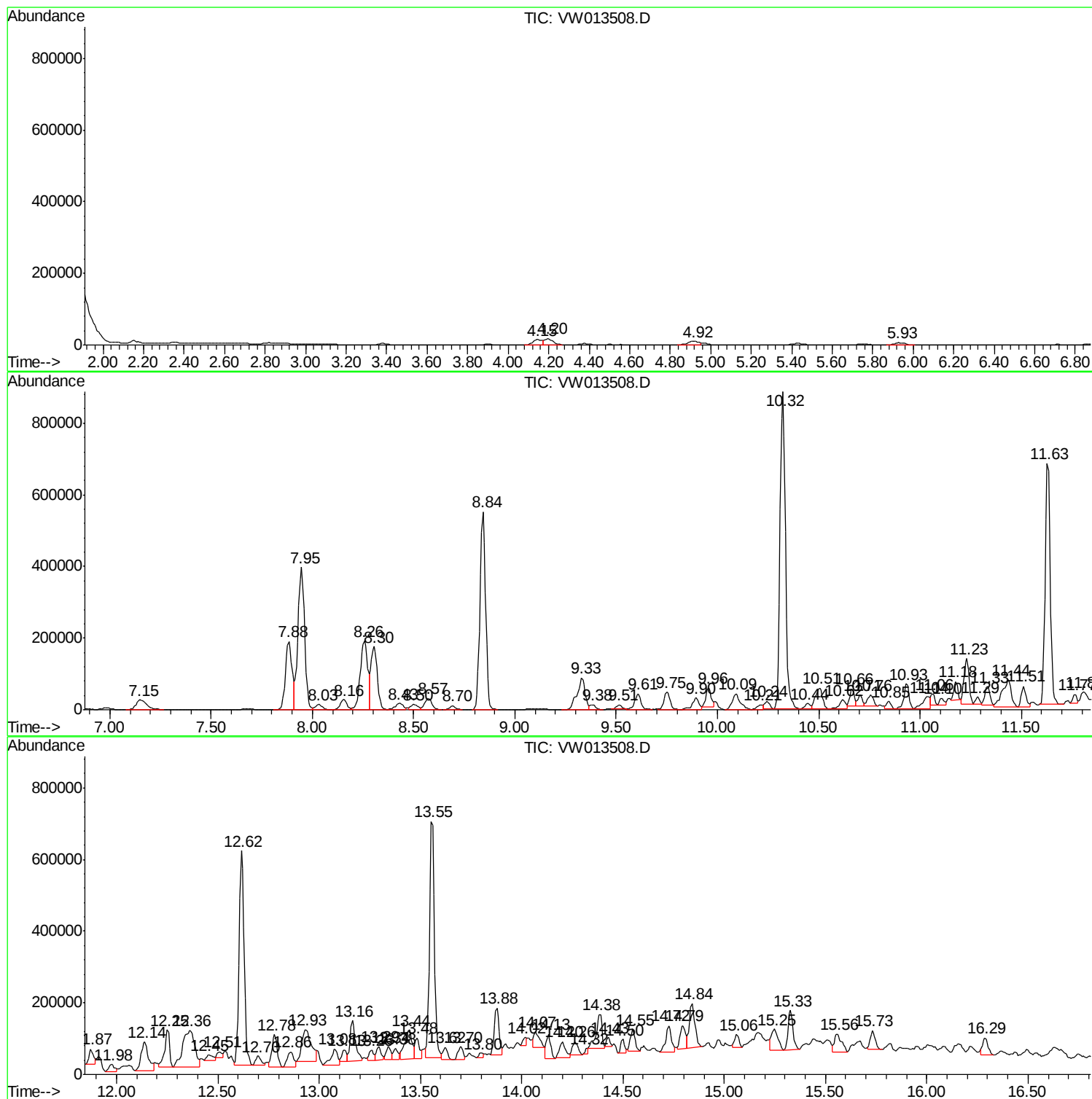
Sum of corrected areas: 15846120

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
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Sample : K5292-01  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
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Sample : K5292-01  
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ALS Vial : 15 Sample Multiplier: 1

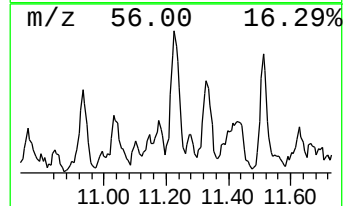
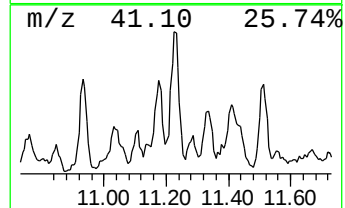
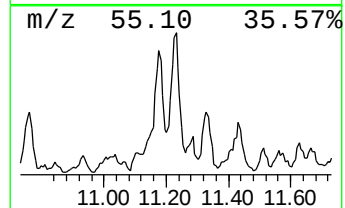
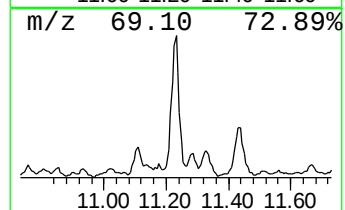
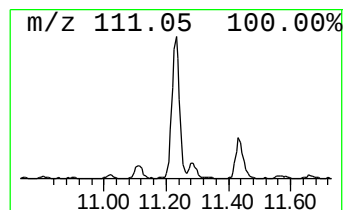
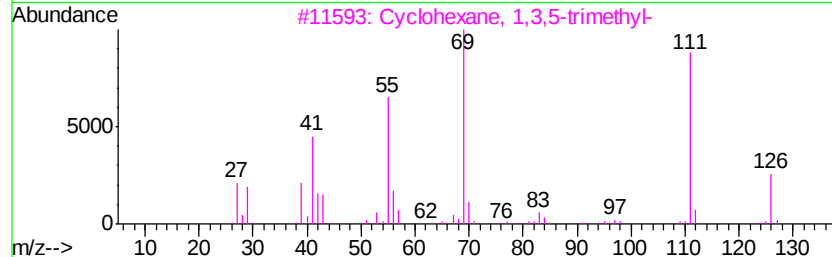
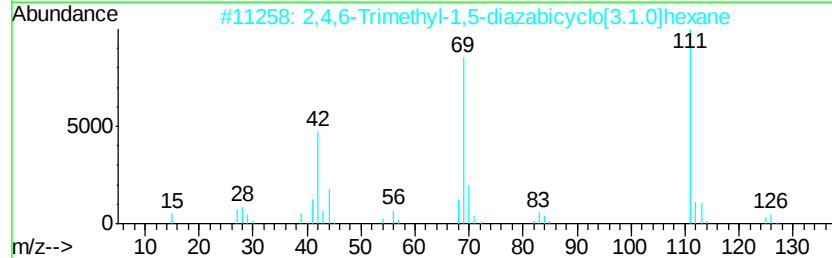
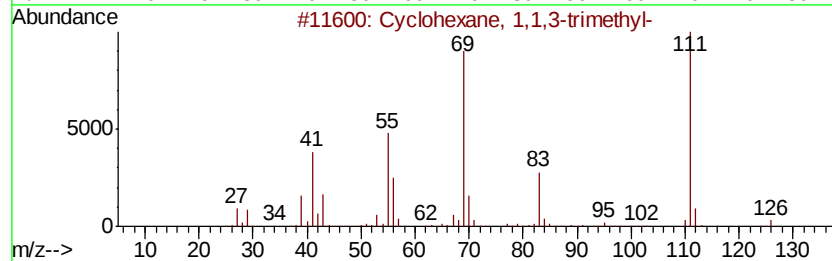
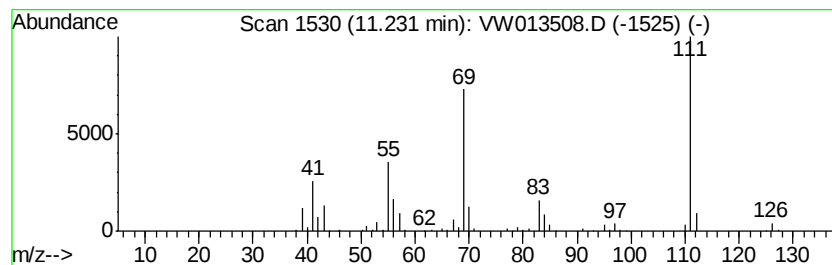
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 8

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|-----------|-------------------------------------|------------------|-----------|--------------|------|
| 11.23   | 9.15 ug/l | 215026                              | Chlorobenzene-d5 | 11.63     |              |      |
| Hit# of | 5         | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |           | Cvclohexane, 1,1,3-trimethyl-       | 126              | C9H18     | 003073-66-3  | 87   |
| 2       |           | 2,4,6-Trimethyl-1,5-diazabicyclo... | 126              | C7H14N2   | 1000283-21-2 | 72   |
| 3       |           | Cvclohexane, 1,3,5-trimethyl-       | 126              | C9H18     | 001839-63-0  | 64   |
| 4       |           | 1-Aminocvclopropanecarboxylic ac... | 156              | C7H12N2O2 | 1000375-50-8 | 59   |
| 5       |           | 4-Amino-6-hydroxypyrimidine         | 111              | C4H5N3O   | 001193-22-2  | 59   |



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Quant Title : SW846 8260

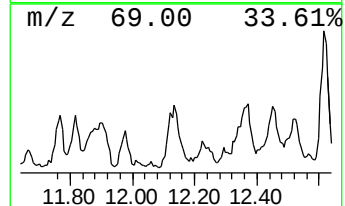
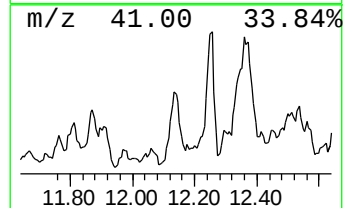
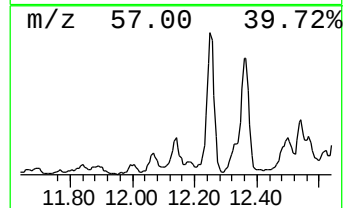
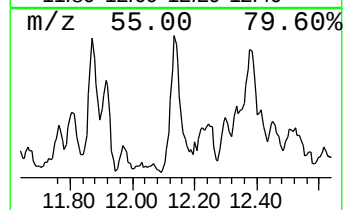
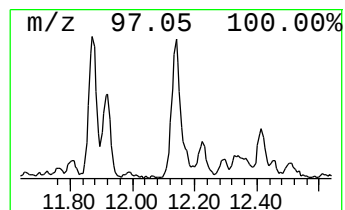
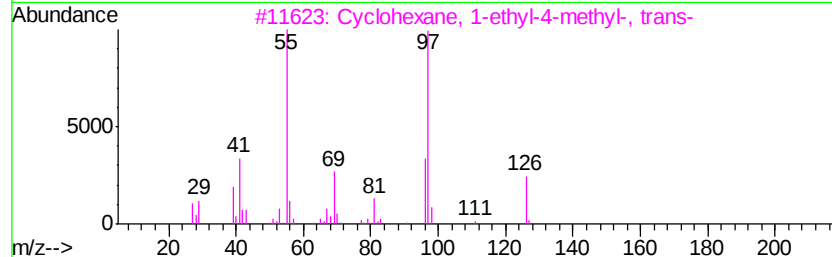
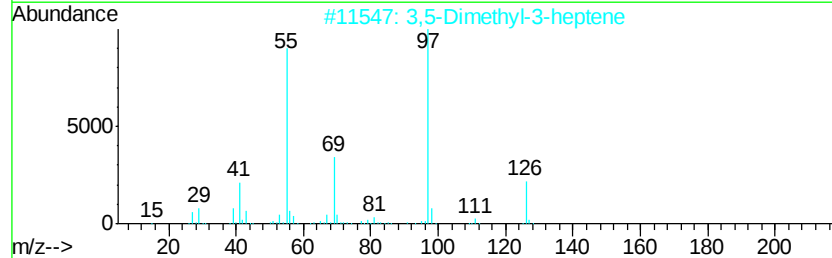
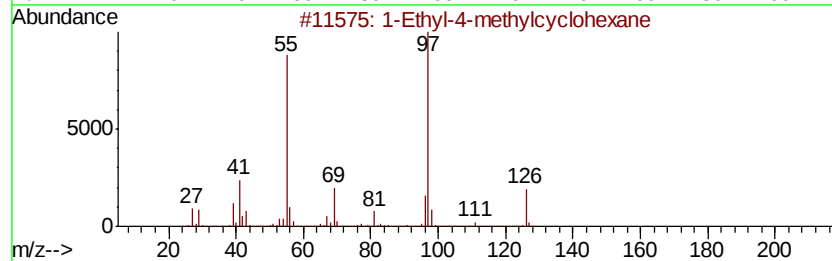
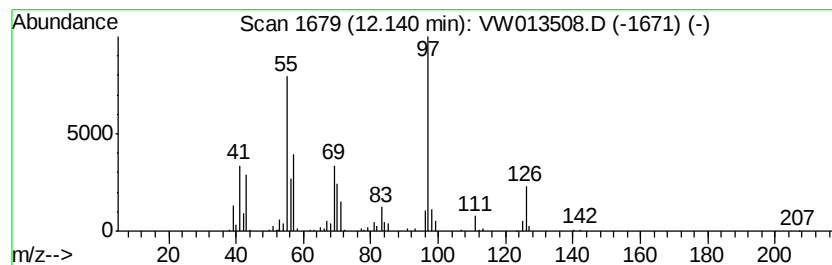
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 1-Ethyl-4-methylcyclohexane Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.14 | 8.46 ug/l | 198764 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18     | 003728-56-1  | 58   |
| 2    |    | 3,5-Dimethyl-3-heptene              | 126 | C9H18     | 059643-68-4  | 58   |
| 3    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18     | 006236-88-0  | 58   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18     | 004923-77-7  | 53   |
| 5    |    | Sulfurous acid, cyclohexylmethyl... | 402 | C23H46O3S | 1000309-22-4 | 53   |



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ClientSampleId :  
20190850-COMPOSITE-B

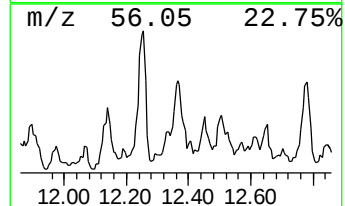
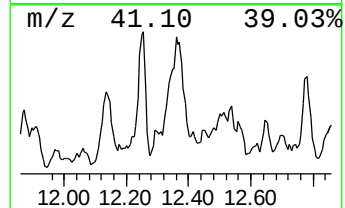
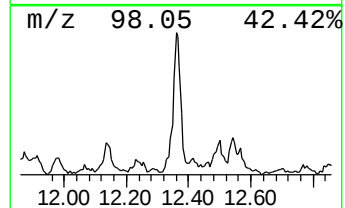
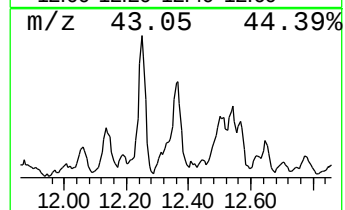
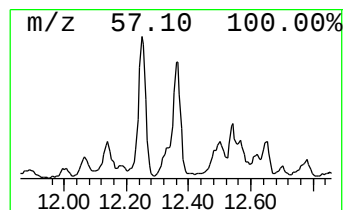
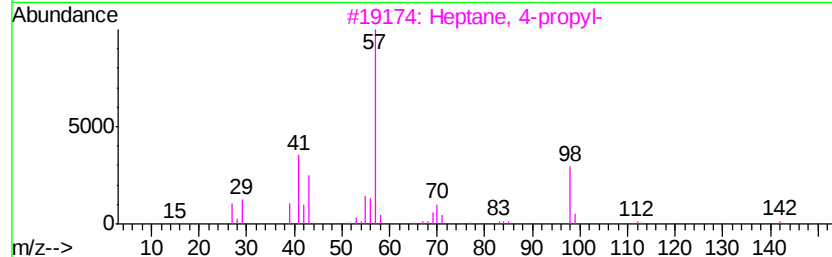
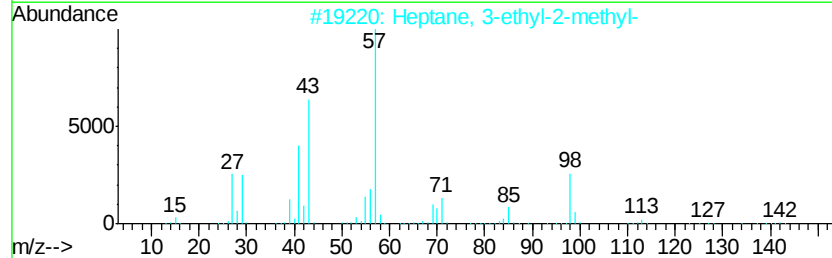
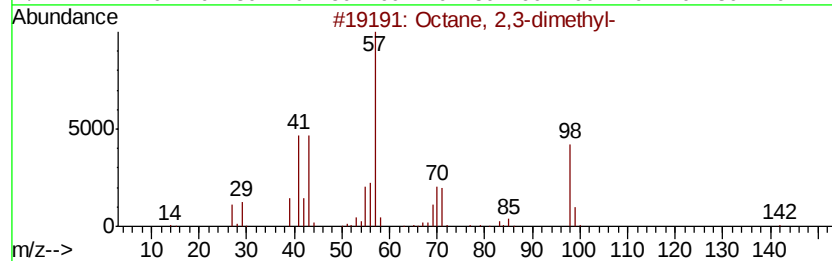
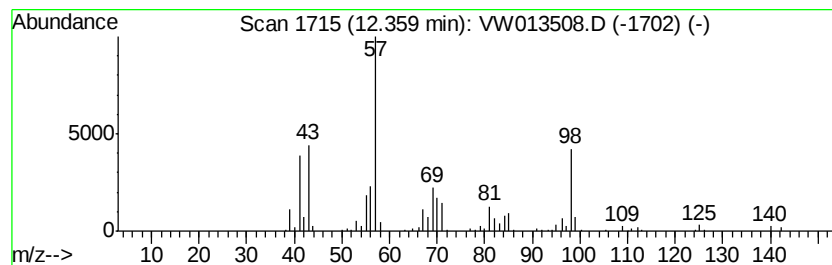
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Quant Title : SW846 8260

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

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Peak Number 4 Octane, 2,3-dimethyl- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.36 | 18.25 ug/l | 429035 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,3-dimethyl-               | 142 | C10H22  | 007146-60-3 | 64   |
| 2    |    | Heptane, 3-ethyl-2-methyl-          | 142 | C10H22  | 014676-29-0 | 59   |
| 3    |    | Heptane, 4-propyl-                  | 142 | C10H22  | 003178-29-8 | 53   |
| 4    |    | Octane, 2,5,6-trimethyl-            | 156 | C11H24  | 062016-14-2 | 43   |
| 5    |    | Ether, tert-butyl isopropylidene... | 154 | C10H18O | 024524-56-9 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

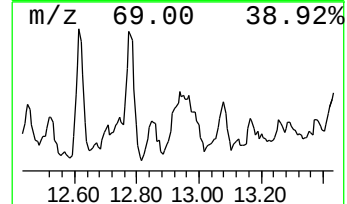
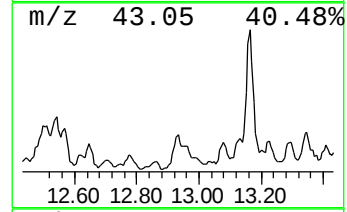
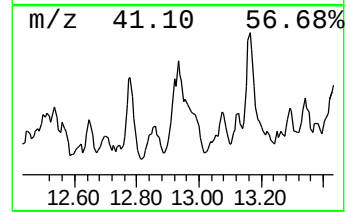
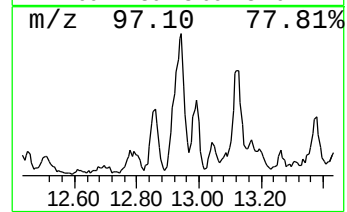
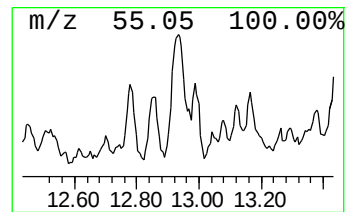
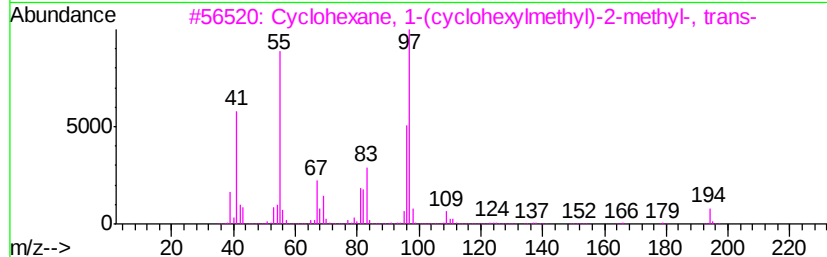
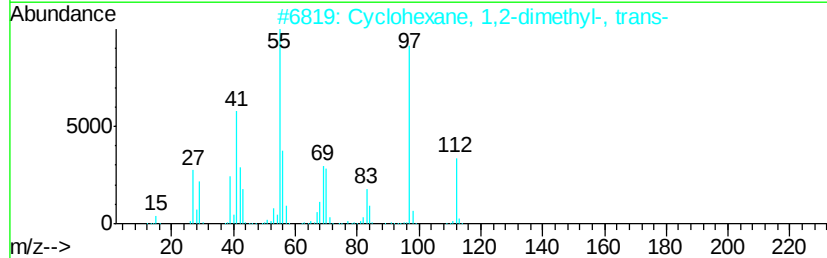
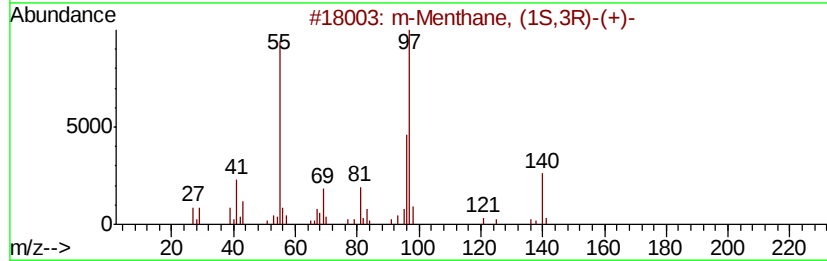
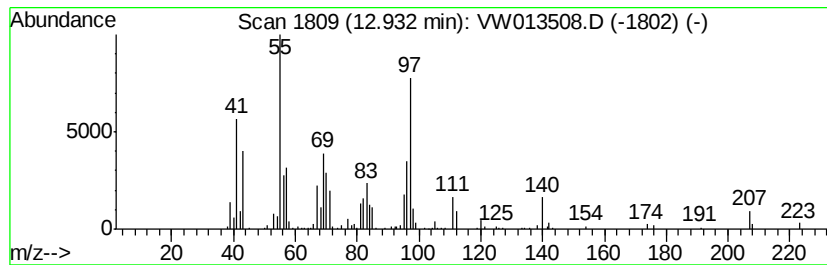
Instrument :  
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ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 m-Menthane, (1S,3R)-(+)- Concentration Rank 2

| R.T.    | EstConc                            | Area         | Relative to ISTD       | R.T.      |
|---------|------------------------------------|--------------|------------------------|-----------|
| 12.93   | 13.12 ug/l                         | 288821       | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                                  | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | m-Menthane, (1S,3R)-(+)-           | 140 C10H20   | 013837-66-6            | 58        |
| 2       | Cyclohexane, 1,2-dimethyl-, trans- | 112 C8H16    | 006876-23-9            | 53        |
| 3       | Cyclohexane, 1-(cyclohexylmethyl)- | 194 C14H26   | 054823-94-8            | 50        |
| 4       | Cyclohexane, 1,4-dimethyl-, cis-   | 112 C8H16    | 000624-29-3            | 49        |
| 5       | trans-1,3-Diethylcyclopentane      | 126 C9H18    | 1000113-87-1           | 47        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

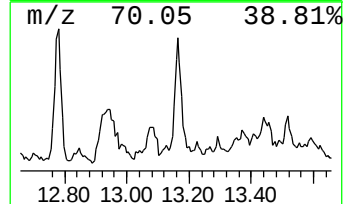
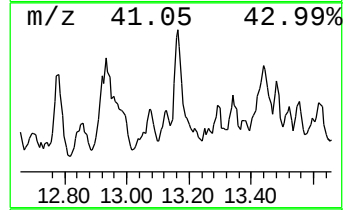
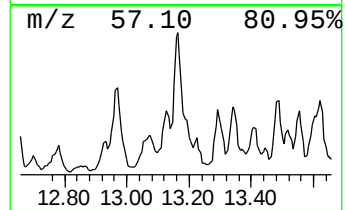
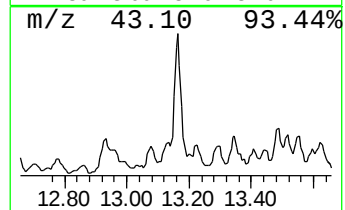
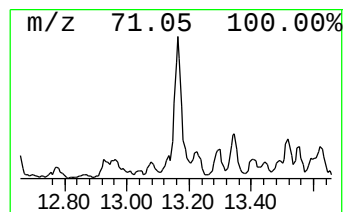
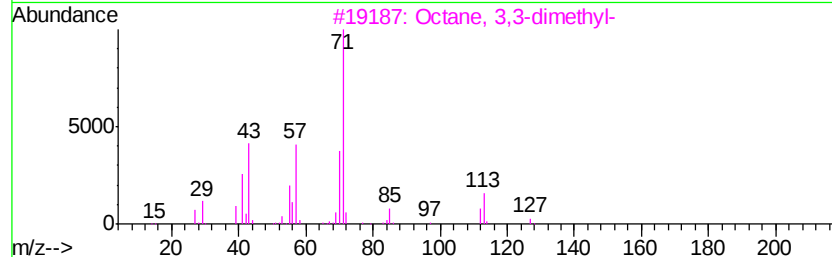
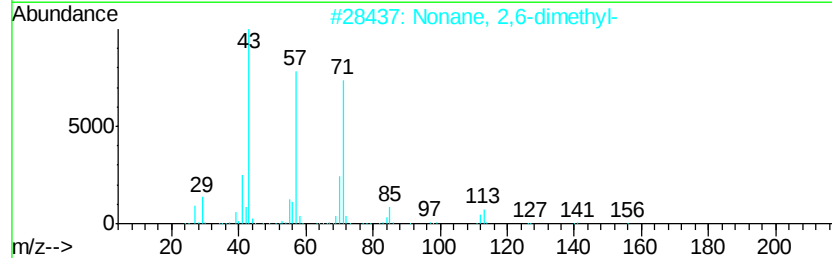
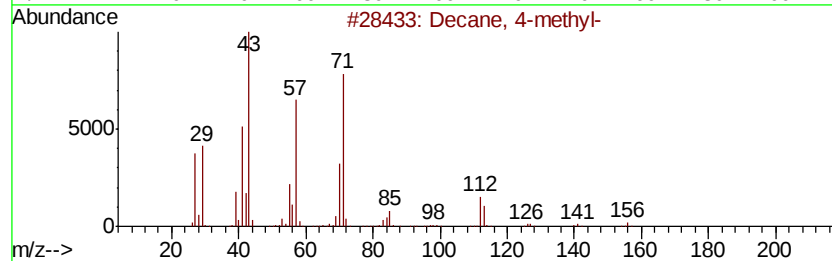
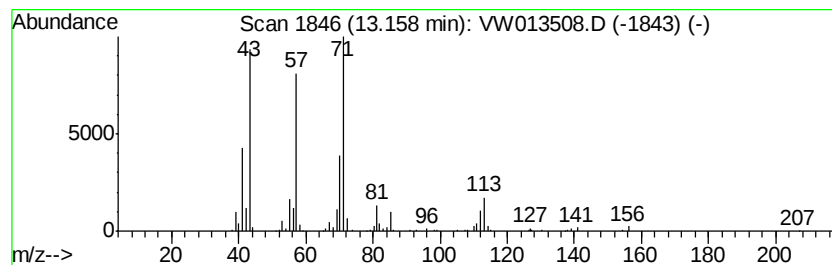
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Decane, 4-methyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.16 | 9.52 ug/l | 209676 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Decane, 4-methyl-                   | 156 | C11H24   | 002847-72-5  | 87   |
| 2    |    | Nonane, 2,6-dimethyl-               | 156 | C11H24   | 017302-28-2  | 83   |
| 3    |    | Octane, 3,3-dimethyl-               | 142 | C10H22   | 004110-44-5  | 72   |
| 4    |    | Heptane, 3,3,5-trimethyl-           | 142 | C10H22   | 007154-80-5  | 64   |
| 5    |    | Oxalic acid, 2-ethylhexyl pentyl... | 272 | C15H28O4 | 1000309-38-7 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

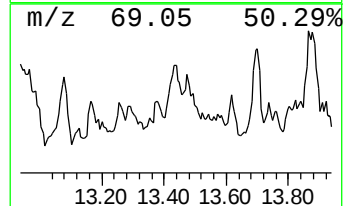
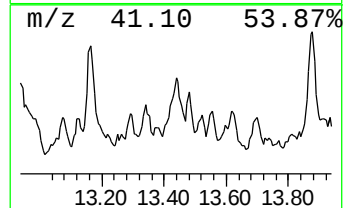
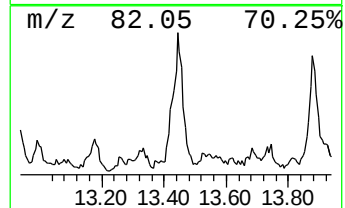
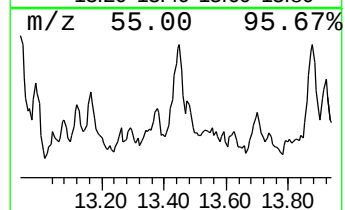
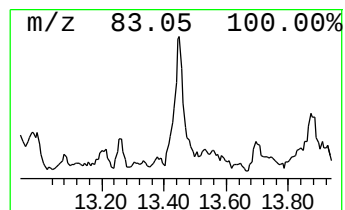
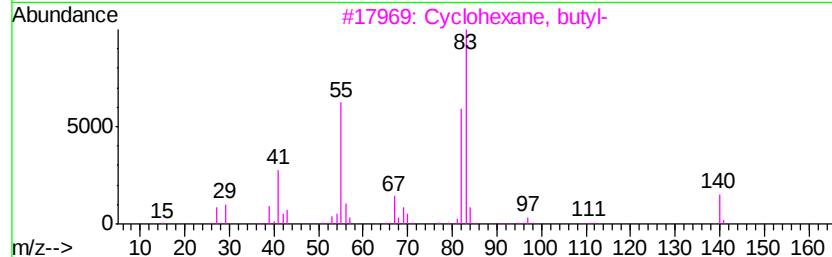
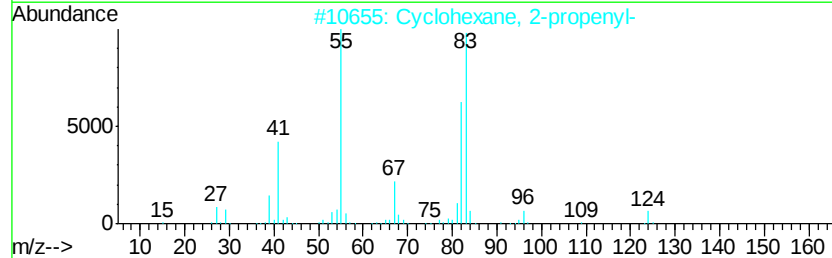
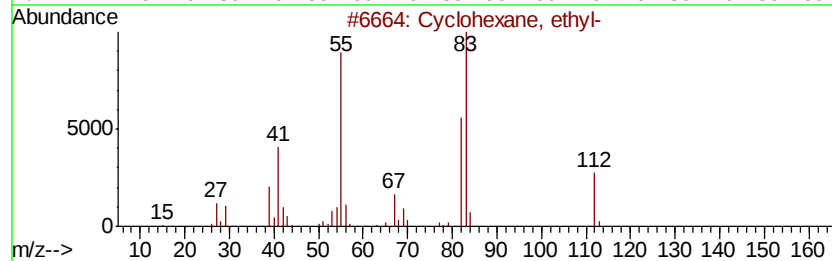
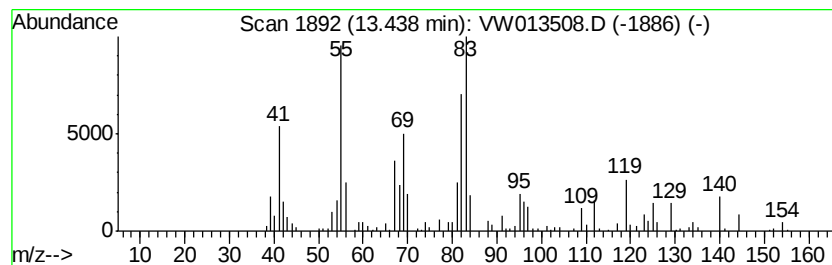
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Cyclohexane, ethyl- Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.44 | 9.40 ug/l | 206967 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, ethyl-                    | 112 | C8H16   | 001678-91-7 | 76   |
| 2    |    | Cyclohexane, 2-propenyl-               | 124 | C9H16   | 002114-42-3 | 76   |
| 3    |    | Cyclohexane, butyl-                    | 140 | C10H20  | 001678-93-9 | 76   |
| 4    |    | Cyclohexane, 1,1'-(1,4-butanediol-...) | 222 | C16H30  | 006165-44-2 | 59   |
| 5    |    | Cyclohexane, (1-methylethyl)-          | 126 | C9H18   | 000696-29-7 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

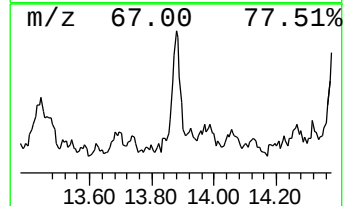
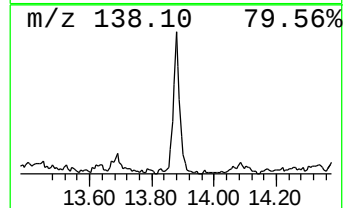
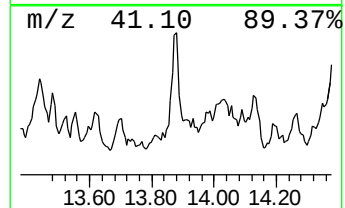
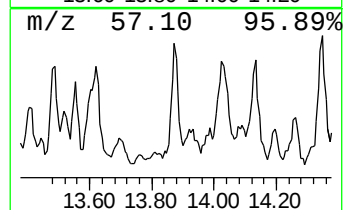
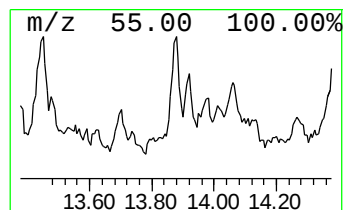
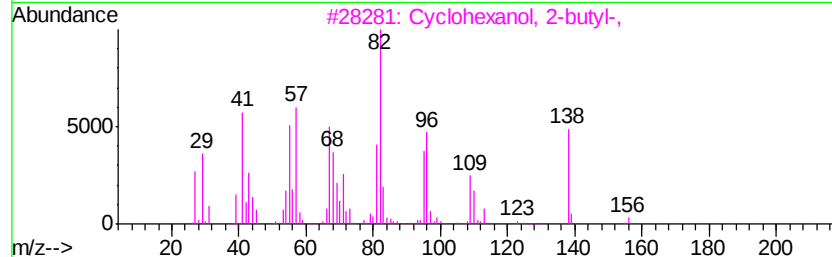
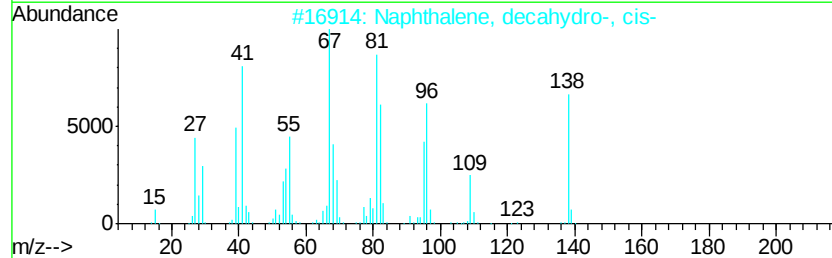
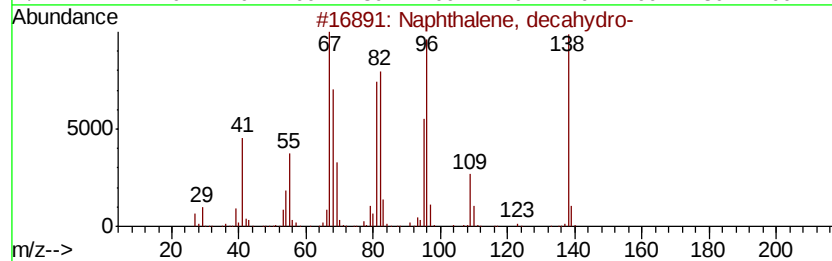
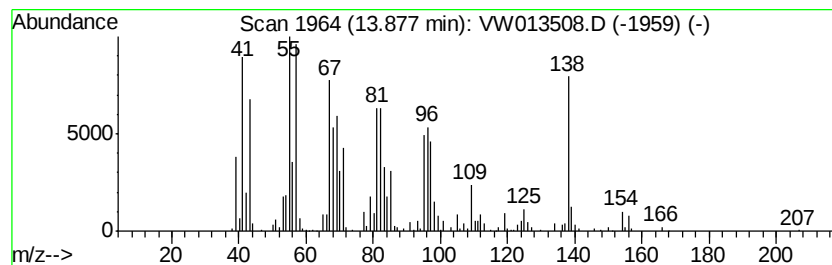
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ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 8 Naphthalene, decahydro- Concentration Rank 4

| R.T.    | EstConc    | Area                          | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------|------------------------|----------------|
| 13.88   | 10.04 ug/l | 221040                        | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                  | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, decahydro-       | 138 C10H18             | 000091-17-8 86 |
| 2       |            | Naphthalene, decahydro-, cis- | 138 C10H18             | 000493-01-6 86 |
| 3       |            | Cyclohexanol, 2-butyl-,       | 156 C10H20O            | 036159-49-6 70 |
| 4       |            | Spiro[4.5]decane              | 138 C10H18             | 000176-63-6 70 |
| 5       |            | Cyclodecene                   | 138 C10H18             | 003618-12-0 70 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

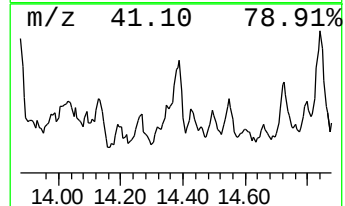
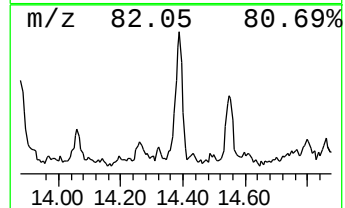
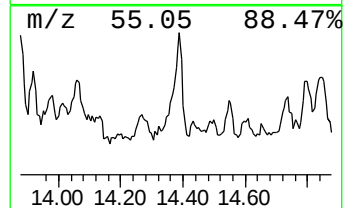
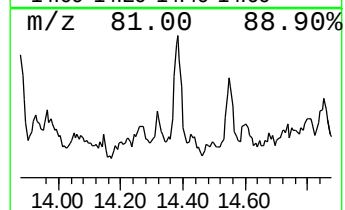
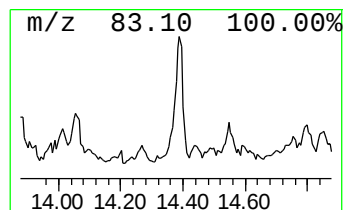
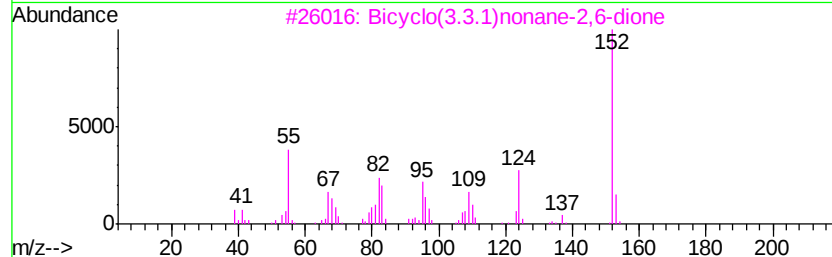
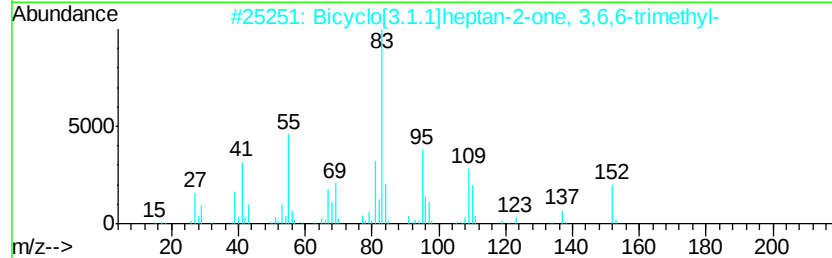
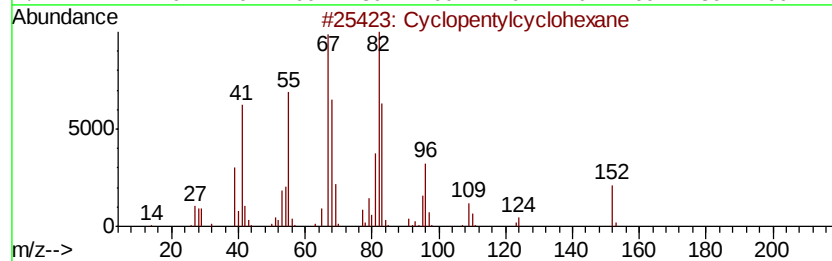
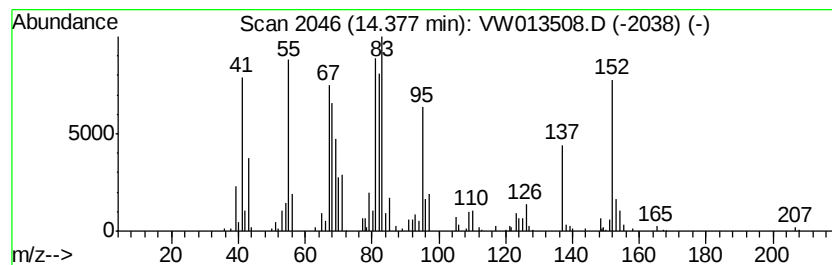
Instrument :  
MSVOA\_W  
ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Cyclopentylcyclohexane Concentration Rank 9

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.            |
|---------|-----------|-------------------------------------|------------------------|-----------------|
| 14.38   | 8.86 ug/l | 194946                              | 1,4-Dichlorobenzene-d4 | 13.56           |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |           | Cyclopentylcyclohexane              | 152 C11H20             | 001606-08-2 58  |
| 2       |           | Bicyclo[3.1.1]heptan-2-one, 3,6,... | 152 C10H16O            | 016022-08-5 53  |
| 3       |           | Bicyclo(3.3.1)nonane-2,6-dione      | 152 C9H12O2            | 016473-11-3 52  |
| 4       |           | Decalin, syn-1-methyl-, cis-        | 152 C11H20             | 1000158-89-1 50 |
| 5       |           | Cyclohexanone, 5-methyl-2-(1-met... | 152 C10H16O            | 000529-00-0 46  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100919\  
 Data File : VW013508.D  
 Acq On : 09 Oct 2019 17:02  
 Operator : SY/VA  
 Sample : K5292-01  
 Misc : 5.05G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
 Quant Title : SW846 8260

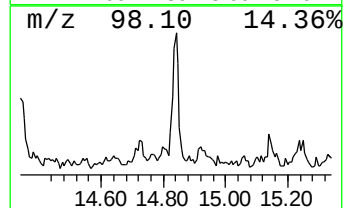
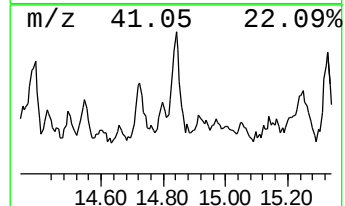
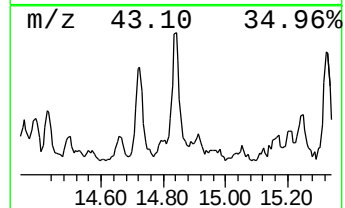
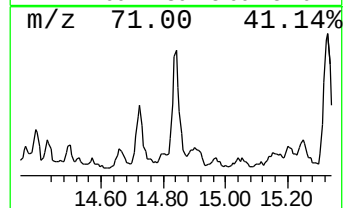
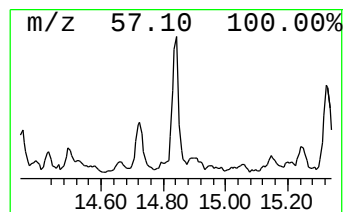
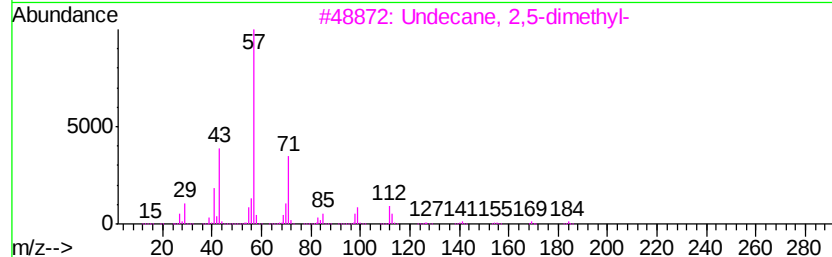
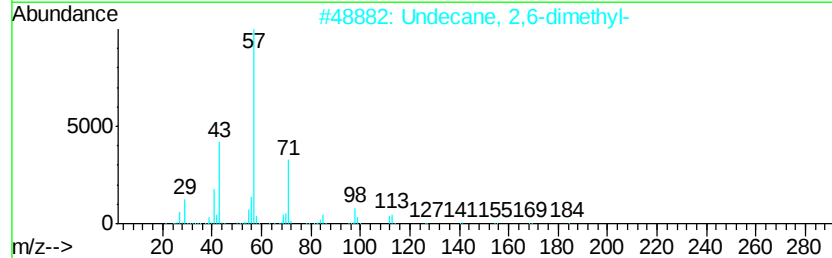
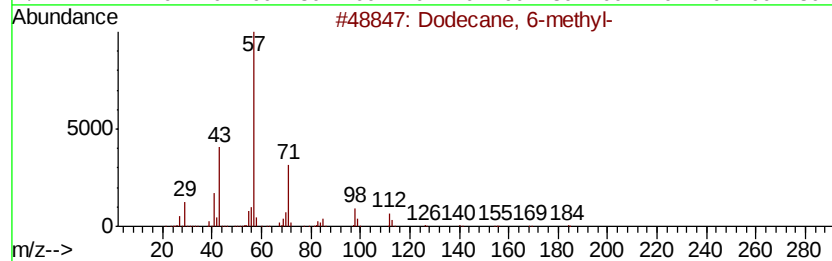
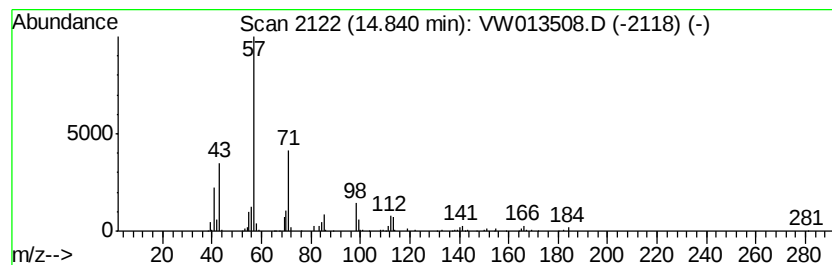
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 10 Dodecane, 6-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.84 | 10.46 ug/l | 230207 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 6-methyl-     | 184 | C13H28  | 006044-71-9 | 91   |
| 2    |    | Undecane, 2,6-dimethyl- | 184 | C13H28  | 017301-23-4 | 91   |
| 3    |    | Undecane, 2,5-dimethyl- | 184 | C13H28  | 017301-22-3 | 72   |
| 4    |    | Undecane, 3,6-dimethyl- | 184 | C13H28  | 017301-28-9 | 72   |
| 5    |    | Tridecane               | 184 | C13H28  | 000629-50-5 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW100919\  
Data File : VW013508.D  
Acq On : 09 Oct 2019 17:02  
Operator : SY/VA  
Sample : K5292-01  
Misc : 5.05G/5ML/MSVOA\_W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
20190850-COMPOSITE-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.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 |
| Cyclohexane, 1,1,... | 11.23 | 9.2     | ug/l  | 215026   | 3                     | 11.63 | 1175330 | 50.0 |
| 1-Ethyl-4-methylc... | 12.14 | 8.5     | ug/l  | 198764   | 3                     | 11.63 | 1175330 | 50.0 |
| Octane, 2,3-dimet... | 12.36 | 18.3    | ug/l  | 429035   | 3                     | 11.63 | 1175330 | 50.0 |
| m-Menthane, (1S,3... | 12.93 | 13.1    | ug/l  | 288821   | 4                     | 13.56 | 1100720 | 50.0 |
| Decane, 4-methyl-    | 13.16 | 9.5     | ug/l  | 209676   | 4                     | 13.56 | 1100720 | 50.0 |
| Cyclohexane, ethyl-  | 13.44 | 9.4     | ug/l  | 206967   | 4                     | 13.56 | 1100720 | 50.0 |
| Naphthalene, deca... | 13.88 | 10.0    | ug/l  | 221040   | 4                     | 13.56 | 1100720 | 50.0 |
| Cyclopentylcycloh... | 14.38 | 8.9     | ug/l  | 194946   | 4                     | 13.56 | 1100720 | 50.0 |
| Dodecane, 6-methyl-  | 14.84 | 10.5    | ug/l  | 230207   | 4                     | 13.56 | 1100720 | 50.0 |