

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
 Data File : VW007048.D  
 Acq On : 26 Nov 2018 15:34  
 Operator : VAY/AP  
 Sample : J6003-12  
 Misc : 6.23G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 AOC2-05

## 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\82W112118S.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         | 2.172       | 38            | 44          | 65           | rBV      | 1415598        | 2009747       | 2.44%           | 0.242%        |
| 2         | 2.355       | 65            | 74          | 86           | rVV      | 3923380        | 7218843       | 8.75%           | 0.868%        |
| 3         | 3.026       | 175           | 184         | 223          | rVV      | 10683306       | 24563694      | 29.79%          | 2.953%        |
| 4         | 3.312       | 223           | 231         | 237          | rVV      | 639890         | 1438215       | 1.74%           | 0.173%        |
| 5         | 3.391       | 237           | 244         | 264          | rVV2     | 4520191        | 12290260      | 14.90%          | 1.477%        |
| 6         | 3.592       | 267           | 277         | 289          | rVV      | 2075531        | 4834708       | 5.86%           | 0.581%        |
| 7         | 3.763       | 289           | 305         | 312          | rVV      | 1133139        | 2899680       | 3.52%           | 0.349%        |
| 8         | 3.855       | 312           | 320         | 343          | rVB      | 3919135        | 10423554      | 12.64%          | 1.253%        |
| 9         | 4.787       | 452           | 473         | 482          | rBV3     | 881595         | 3431571       | 4.16%           | 0.412%        |
| 10        | 4.909       | 482           | 493         | 496          | rBV      | 2321781        | 7332834       | 8.89%           | 0.881%        |
| 11        | 4.970       | 497           | 503         | 517          | rVB      | 4060934        | 14202159      | 17.22%          | 1.707%        |
| 12        | 5.446       | 561           | 581         | 598          | rBV      | 3108145        | 10884467      | 13.20%          | 1.308%        |
| 13        | 5.763       | 618           | 633         | 650          | rBV4     | 951211         | 3775787       | 4.58%           | 0.454%        |
| 14        | 5.952       | 650           | 664         | 679          | rVB      | 2499276        | 7628242       | 9.25%           | 0.917%        |
| 15        | 6.116       | 679           | 691         | 700          | rBV      | 828134         | 2449885       | 2.97%           | 0.294%        |
| 16        | 6.232       | 700           | 710         | 715          | rBV      | 1096895        | 3444046       | 4.18%           | 0.414%        |
| 17        | 6.299       | 715           | 721         | 733          | rVB      | 1787620        | 5237798       | 6.35%           | 0.630%        |
| 18        | 6.440       | 733           | 744         | 752          | rBV      | 1042100        | 3233545       | 3.92%           | 0.389%        |
| 19        | 6.568       | 752           | 765         | 772          | rBV3     | 569642         | 2597741       | 3.15%           | 0.312%        |
| 20        | 6.738       | 783           | 793         | 805          | rVV      | 1768029        | 5242797       | 6.36%           | 0.630%        |
| 21        | 6.885       | 805           | 817         | 826          | rVV      | 2507225        | 7880854       | 9.56%           | 0.947%        |
| 22        | 6.994       | 826           | 835         | 842          | rVV      | 3291905        | 9986317       | 12.11%          | 1.200%        |
| 23        | 7.061       | 842           | 846         | 856          | rVV      | 632385         | 1648546       | 2.00%           | 0.198%        |
| 24        | 7.702       | 944           | 951         | 960          | rVB      | 2112187        | 5189351       | 6.29%           | 0.624%        |
| 25        | 7.933       | 981           | 989         | 999          | rBV4     | 3552742        | 10880654      | 13.19%          | 1.308%        |
| 26        | 8.043       | 999           | 1007        | 1018         | rVB      | 4752700        | 12880664      | 15.62%          | 1.548%        |
| 27        | 8.165       | 1018          | 1027        | 1035         | rBV      | 3545022        | 8281031       | 10.04%          | 0.995%        |
| 28        | 8.329       | 1044          | 1054        | 1065         | rBV      | 8261385        | 20086987      | 24.36%          | 2.415%        |
| 29        | 8.494       | 1065          | 1081        | 1091         | rVV      | 11995927       | 38290035      | 46.43%          | 4.603%        |
| 30        | 8.585       | 1091          | 1096        | 1105         | rVB      | 1225811        | 3053682       | 3.70%           | 0.367%        |
| 31        | 8.701       | 1105          | 1115        | 1128         | rVB2     | 2649207        | 7339585       | 8.90%           | 0.882%        |
| 32        | 8.842       | 1128          | 1138        | 1143         | rBV3     | 3246830        | 8047848       | 9.76%           | 0.967%        |
| 33        | 8.896       | 1143          | 1147        | 1152         | rVB2     | 1371885        | 2512861       | 3.05%           | 0.302%        |
| 34        | 9.000       | 1159          | 1164        | 1171         | rVB      | 909676         | 1707719       | 2.07%           | 0.205%        |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 AOC2-05

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Sampling : 1  
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 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\82W112118S.M  
 Title : SW846 8260

|    |        |      |      |      |      |          |          |         |        |
|----|--------|------|------|------|------|----------|----------|---------|--------|
| 35 | 9.079  | 1171 | 1177 | 1180 | rBV3 | 842161   | 1862043  | 2.26%   | 0.224% |
| 36 | 9.122  | 1181 | 1184 | 1204 | rVB  | 1094197  | 2334222  | 2.83%   | 0.281% |
| 37 | 9.341  | 1204 | 1220 | 1225 | rBV2 | 5468997  | 14602828 | 17.71%  | 1.755% |
| 38 | 9.390  | 1225 | 1228 | 1236 | rVB  | 2873179  | 5375412  | 6.52%   | 0.646% |
| 39 | 9.476  | 1236 | 1242 | 1246 | rBV  | 1139048  | 2285877  | 2.77%   | 0.275% |
| 40 | 9.524  | 1246 | 1250 | 1256 | rVB  | 954791   | 1697182  | 2.06%   | 0.204% |
| 41 | 9.616  | 1256 | 1265 | 1271 | rBV2 | 757155   | 1752240  | 2.12%   | 0.211% |
| 42 | 9.768  | 1283 | 1290 | 1299 | rVB  | 7647869  | 16321731 | 19.79%  | 1.962% |
| 43 | 9.860  | 1299 | 1305 | 1307 | rBV  | 2354004  | 4064895  | 4.93%   | 0.489% |
| 44 | 9.902  | 1307 | 1312 | 1318 | rVB  | 9518606  | 19711604 | 23.90%  | 2.369% |
| 45 | 9.963  | 1318 | 1322 | 1326 | rBV  | 1635457  | 2467529  | 2.99%   | 0.297% |
| 46 | 10.104 | 1336 | 1345 | 1356 | rVB  | 2237272  | 5817335  | 7.05%   | 0.699% |
| 47 | 10.207 | 1356 | 1362 | 1366 | rBV  | 1070764  | 2089310  | 2.53%   | 0.251% |
| 48 | 10.274 | 1366 | 1373 | 1379 | rVV  | 5274100  | 12439782 | 15.08%  | 1.495% |
| 49 | 10.335 | 1379 | 1383 | 1386 | rVV3 | 1055965  | 2089454  | 2.53%   | 0.251% |
| 50 | 10.402 | 1386 | 1394 | 1406 | rVV2 | 30305130 | 82465258 | 100.00% | 9.913% |
| 51 | 10.512 | 1406 | 1412 | 1418 | rVB4 | 2763557  | 5872068  | 7.12%   | 0.706% |
| 52 | 10.750 | 1446 | 1451 | 1452 | rBV  | 1797532  | 2633178  | 3.19%   | 0.317% |
| 53 | 10.774 | 1453 | 1455 | 1462 | rVB3 | 2314802  | 3519274  | 4.27%   | 0.423% |
| 54 | 10.847 | 1462 | 1467 | 1473 | rVB2 | 646117   | 1277918  | 1.55%   | 0.154% |
| 55 | 10.939 | 1473 | 1482 | 1488 | rBV3 | 650080   | 1505138  | 1.83%   | 0.181% |
| 56 | 11.042 | 1488 | 1499 | 1506 | rBV3 | 1100485  | 3570680  | 4.33%   | 0.429% |
| 57 | 11.420 | 1553 | 1561 | 1572 | rVB3 | 1550948  | 4513720  | 5.47%   | 0.543% |
| 58 | 11.518 | 1572 | 1577 | 1588 | rBV  | 1265372  | 2646252  | 3.21%   | 0.318% |
| 59 | 11.634 | 1588 | 1596 | 1601 | rBV3 | 947193   | 2255928  | 2.74%   | 0.271% |
| 60 | 11.737 | 1601 | 1613 | 1622 | rBV  | 12666242 | 23548890 | 28.56%  | 2.831% |
| 61 | 11.847 | 1622 | 1631 | 1641 | rVB  | 27768705 | 61304204 | 74.34%  | 7.369% |
| 62 | 12.079 | 1656 | 1669 | 1674 | rBV4 | 611457   | 1810807  | 2.20%   | 0.218% |
| 63 | 12.176 | 1674 | 1685 | 1692 | rVB  | 15018178 | 27902785 | 33.84%  | 3.354% |
| 64 | 12.335 | 1702 | 1711 | 1715 | rBV6 | 500940   | 1340433  | 1.63%   | 0.161% |
| 65 | 12.469 | 1728 | 1733 | 1737 | rBV  | 1392584  | 2290060  | 2.78%   | 0.275% |
| 66 | 12.597 | 1748 | 1754 | 1761 | rVB  | 1919965  | 3746592  | 4.54%   | 0.450% |
| 67 | 12.810 | 1784 | 1789 | 1794 | rVB  | 5356382  | 8328930  | 10.10%  | 1.001% |
| 68 | 12.877 | 1794 | 1800 | 1803 | rBV  | 14883807 | 26232127 | 31.81%  | 3.153% |
| 69 | 12.908 | 1803 | 1805 | 1808 | rVV  | 8107923  | 11250642 | 13.64%  | 1.352% |
| 70 | 12.951 | 1808 | 1812 | 1819 | rVB  | 9134336  | 15779321 | 19.13%  | 1.897% |
| 71 | 13.109 | 1831 | 1838 | 1846 | rBV  | 6393874  | 10957604 | 13.29%  | 1.317% |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

## 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\82W112118S.M  
Title : SW846 8260

|     |        |      |      |      |      |          |          |        |        |
|-----|--------|------|------|------|------|----------|----------|--------|--------|
| 72  | 13.261 | 1856 | 1863 | 1869 | rBV  | 21778829 | 37533616 | 45.51% | 4.512% |
| 73  | 13.390 | 1875 | 1884 | 1885 | rBV3 | 622988   | 1433379  | 1.74%  | 0.172% |
| 74  | 13.597 | 1909 | 1918 | 1931 | rVB2 | 6784589  | 14132904 | 17.14% | 1.699% |
| 75  | 13.725 | 1934 | 1939 | 1941 | rBV  | 1866242  | 2855730  | 3.46%  | 0.343% |
| 76  | 13.761 | 1941 | 1945 | 1948 | rVV3 | 6877884  | 12383408 | 15.02% | 1.489% |
| 77  | 13.798 | 1948 | 1951 | 1961 | rVV3 | 5772215  | 11707477 | 14.20% | 1.407% |
| 78  | 13.883 | 1961 | 1965 | 1970 | rVV2 | 1199241  | 1880962  | 2.28%  | 0.226% |
| 79  | 13.956 | 1971 | 1977 | 1982 | rVV  | 1528481  | 2519983  | 3.06%  | 0.303% |
| 80  | 14.017 | 1982 | 1987 | 1990 | rVV  | 2986477  | 5196715  | 6.30%  | 0.625% |
| 81  | 14.048 | 1990 | 1992 | 1996 | rVV  | 3003064  | 3783402  | 4.59%  | 0.455% |
| 82  | 14.103 | 1996 | 2001 | 2007 | rVV  | 4893383  | 7921343  | 9.61%  | 0.952% |
| 83  | 14.164 | 2007 | 2011 | 2015 | rVV  | 803827   | 1334787  | 1.62%  | 0.160% |
| 84  | 14.213 | 2015 | 2019 | 2025 | rVV2 | 2790288  | 4573151  | 5.55%  | 0.550% |
| 85  | 14.347 | 2035 | 2041 | 2046 | rBV2 | 1205805  | 2060990  | 2.50%  | 0.248% |
| 86  | 14.426 | 2046 | 2054 | 2057 | rVV  | 2864797  | 5108529  | 6.19%  | 0.614% |
| 87  | 14.462 | 2057 | 2060 | 2064 | rVV  | 3553176  | 5540239  | 6.72%  | 0.666% |
| 88  | 14.511 | 2064 | 2068 | 2071 | rVV2 | 1719657  | 2765584  | 3.35%  | 0.332% |
| 89  | 14.548 | 2071 | 2074 | 2080 | rVB  | 1045560  | 1515364  | 1.84%  | 0.182% |
| 90  | 14.651 | 2087 | 2091 | 2094 | rVV  | 1085103  | 1529987  | 1.86%  | 0.184% |
| 91  | 14.694 | 2094 | 2098 | 2102 | rVV  | 2725888  | 4871770  | 5.91%  | 0.586% |
| 92  | 14.737 | 2102 | 2105 | 2110 | rVB2 | 1593108  | 2435237  | 2.95%  | 0.293% |
| 93  | 14.816 | 2110 | 2118 | 2123 | rBV3 | 3714554  | 8666073  | 10.51% | 1.042% |
| 94  | 14.865 | 2123 | 2126 | 2133 | rVB3 | 851874   | 1505229  | 1.83%  | 0.181% |
| 95  | 15.072 | 2155 | 2160 | 2164 | rBV2 | 1283645  | 2170861  | 2.63%  | 0.261% |
| 96  | 15.188 | 2172 | 2179 | 2187 | rVB2 | 1455822  | 3449027  | 4.18%  | 0.415% |
| 97  | 15.377 | 2198 | 2210 | 2215 | rBV  | 2220977  | 4726919  | 5.73%  | 0.568% |
| 98  | 15.663 | 2250 | 2257 | 2265 | rBV  | 824811   | 1769684  | 2.15%  | 0.213% |
| 99  | 15.834 | 2275 | 2285 | 2296 | rBV4 | 405652   | 1507021  | 1.83%  | 0.181% |
| 100 | 16.450 | 2380 | 2386 | 2394 | rBV  | 1184638  | 2438736  | 2.96%  | 0.293% |

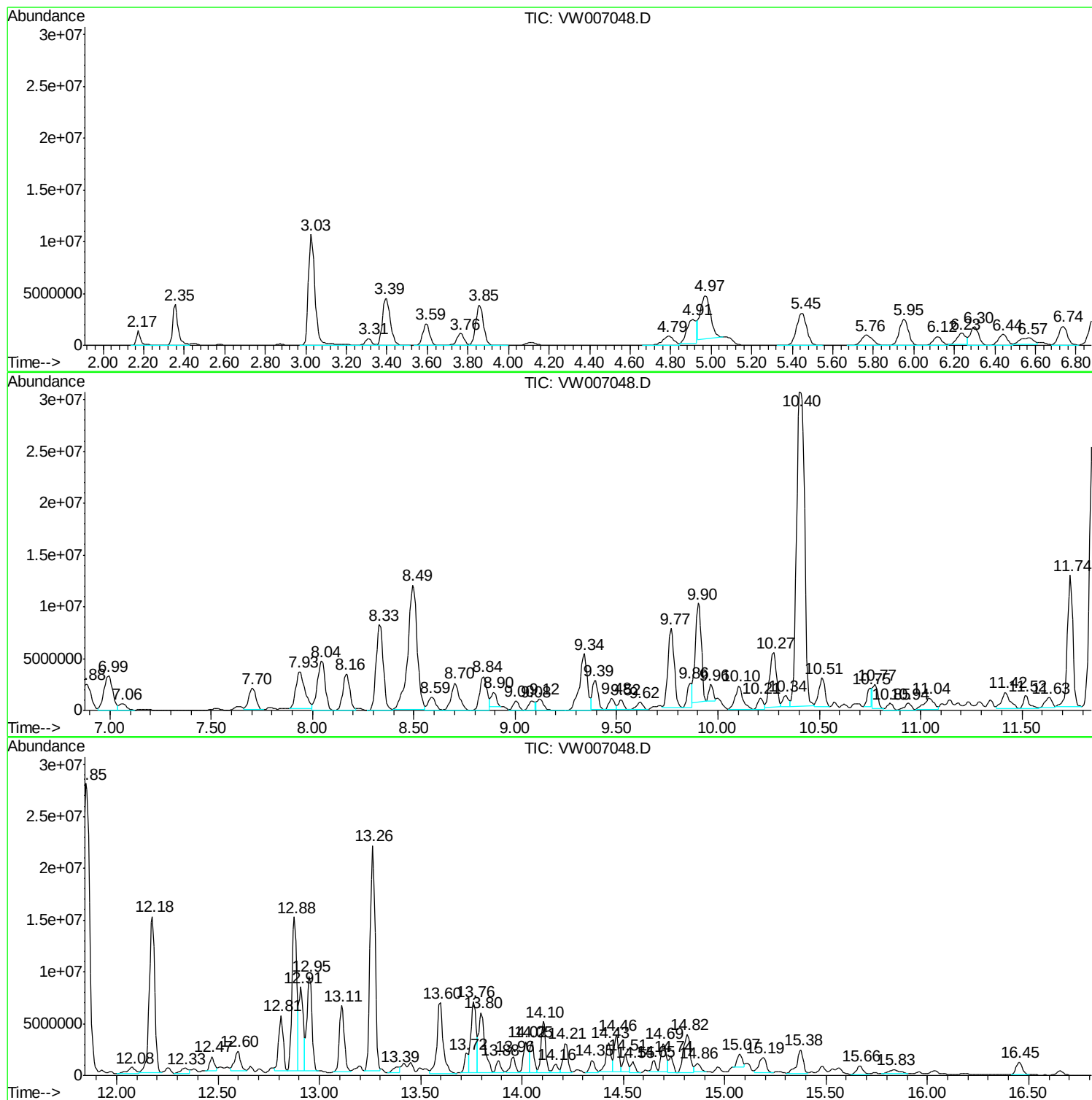
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Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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



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Instrument :  
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ClientSampleId :  
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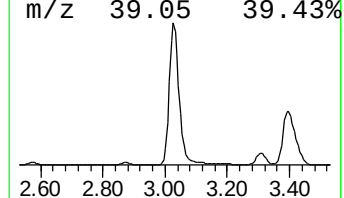
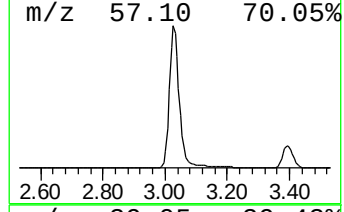
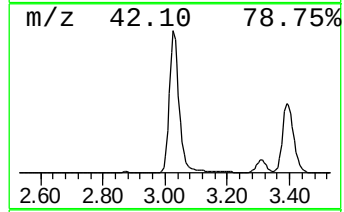
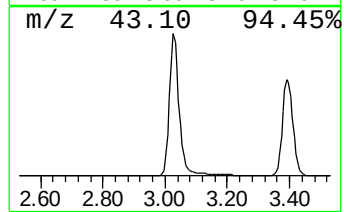
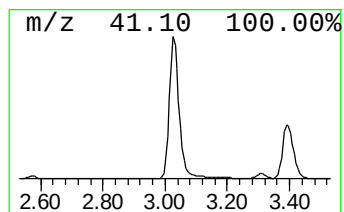
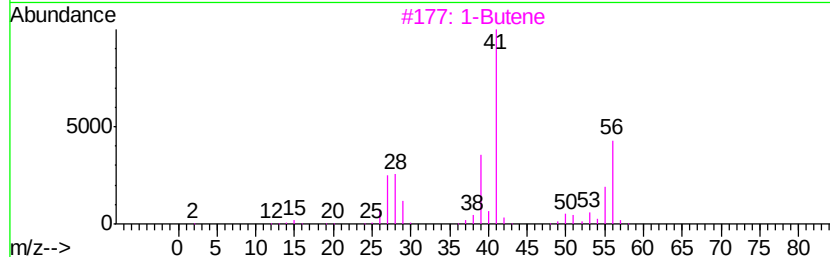
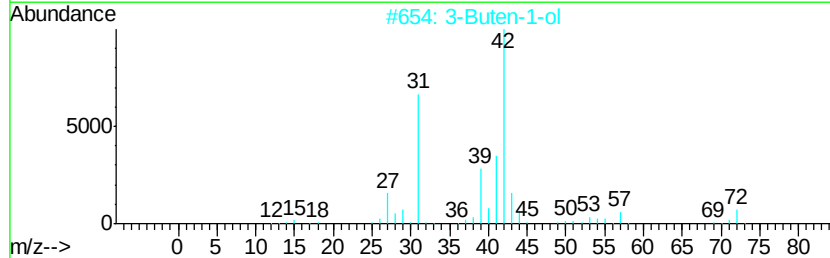
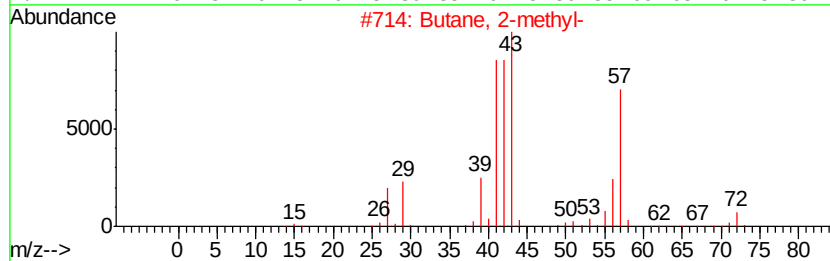
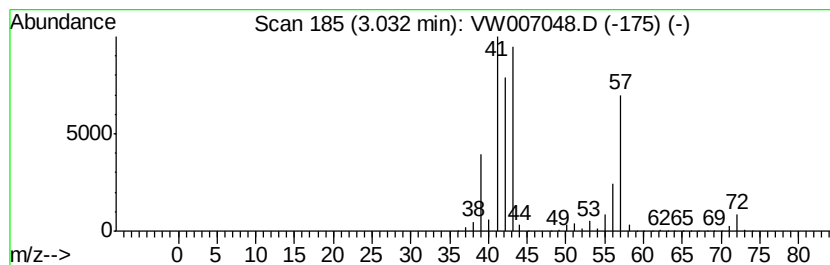
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Butane, 2-methyl- Concentration Rank 5

| R.T. | EstConc     | Area     | Relative to ISTD   | R.T. |
|------|-------------|----------|--------------------|------|
| 3.03 | 112.88 ug/l | 24563700 | Pentafluorobenzene | 7.96 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methyl-          | 72  | C5H12   | 000078-78-4 | 81   |
| 2    |    | 3-Buten-1-ol               | 72  | C4H8O   | 000627-27-0 | 38   |
| 3    |    | 1-Butene                   | 56  | C4H8    | 000106-98-9 | 27   |
| 4    |    | Butane, 2-chloro-3-methyl- | 106 | C5H11Cl | 000631-65-2 | 17   |
| 5    |    | Butane, 1-chloro-2-methyl- | 106 | C5H11Cl | 000616-13-7 | 10   |



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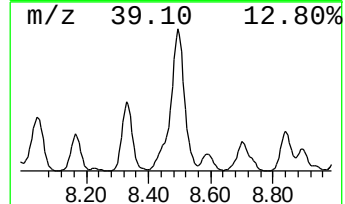
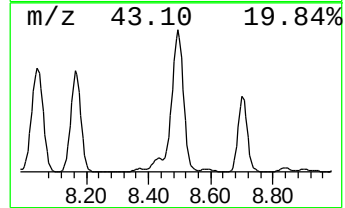
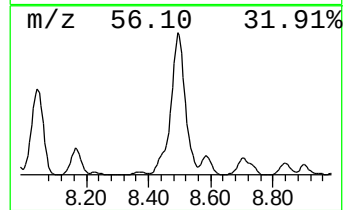
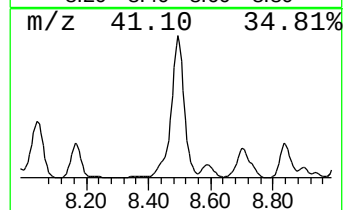
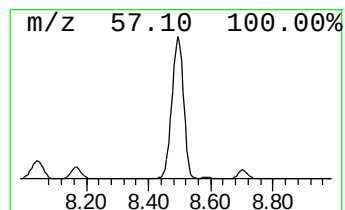
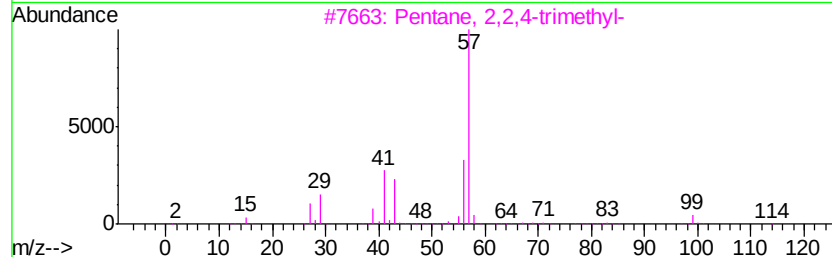
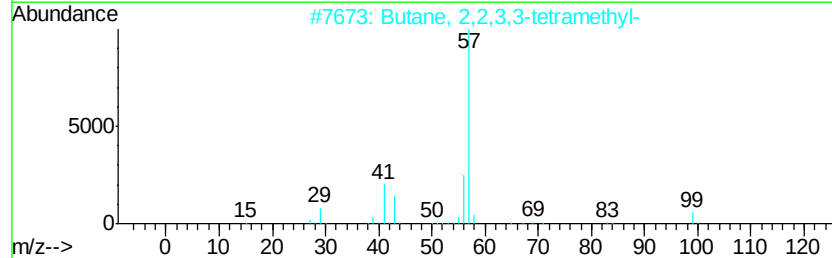
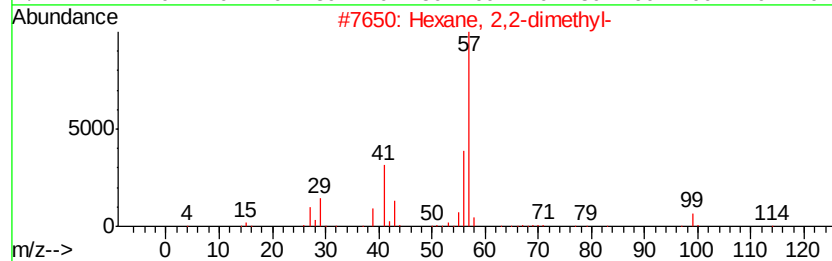
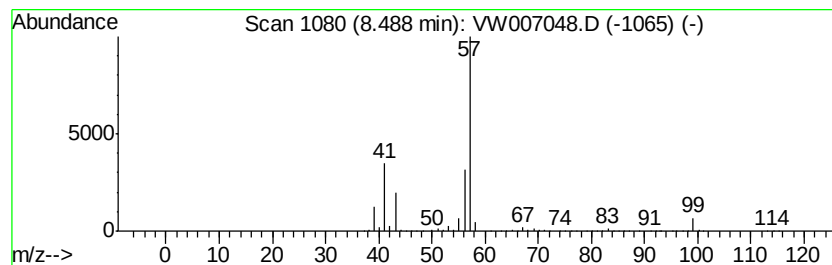
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Hexane, 2,2-dimethyl- Concentration Rank 2

| R.T.    | EstConc                       | Area         | Relative to ISTD    | R.T.        |      |      |
|---------|-------------------------------|--------------|---------------------|-------------|------|------|
| 8.49    | 237.89 ug/l                   | 38290000     | 1,4-Difluorobenzene | 8.85        |      |      |
| Hit# of | 5                             | Tentative ID | MW                  | MolForm     | CAS# | Qual |
| 1       | Hexane, 2,2-dimethyl-         | 114          | C8H18               | 000590-73-8 | 72   |      |
| 2       | Butane, 2,2,3,3-tetramethyl-  | 114          | C8H18               | 000594-82-1 | 72   |      |
| 3       | Pentane, 2,2,4-trimethyl-     | 114          | C8H18               | 000540-84-1 | 72   |      |
| 4       | Hexane, 2,2,4-trimethyl-      | 128          | C9H20               | 016747-26-5 | 59   |      |
| 5       | Pentane, 2,2,4,4-tetramethyl- | 128          | C9H20               | 001070-87-7 | 53   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

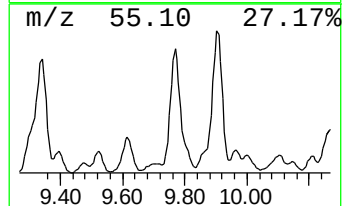
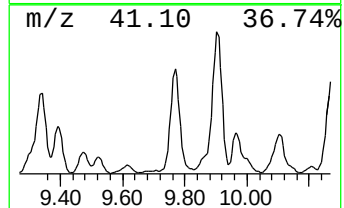
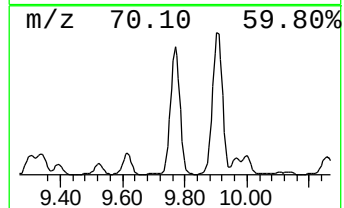
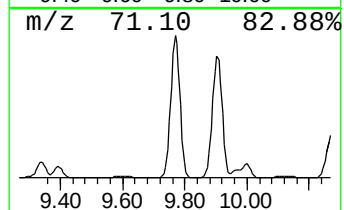
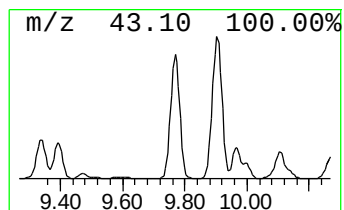
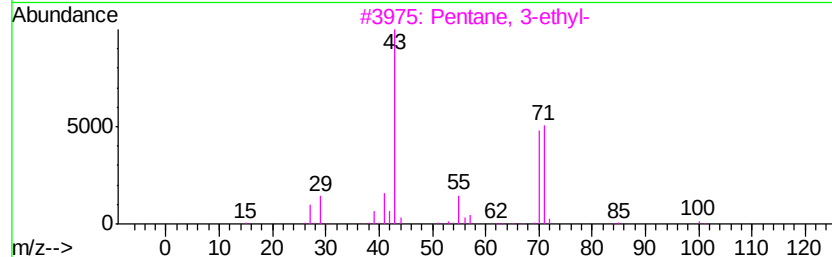
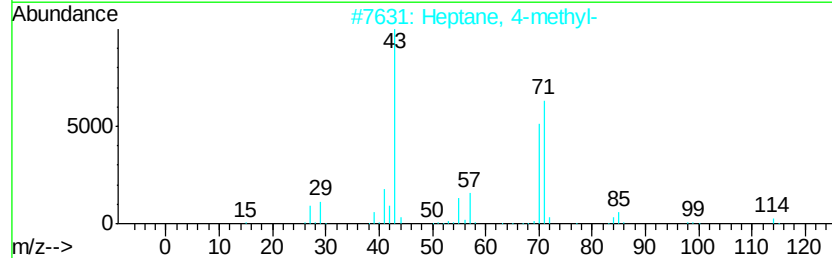
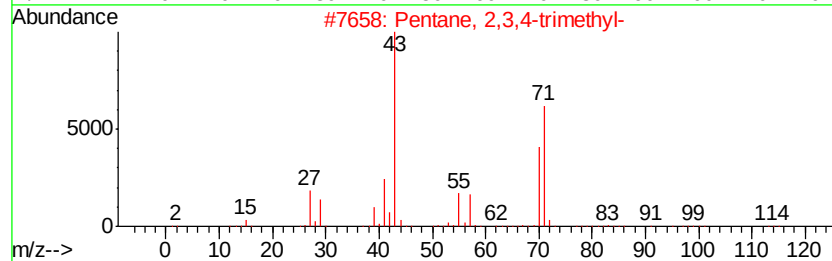
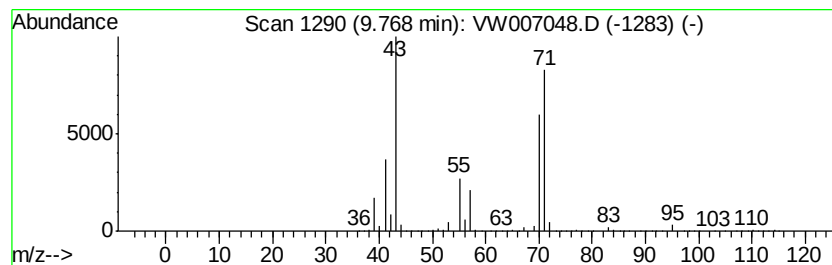
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Quant Title : SW846 8260

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

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Peak Number 3 Pentane, 2,3,4-trimethyl- Concentration Rank 6

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.77 | 101.40 ug/l | 16321700 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentane, 2,3,4-trimethyl-           | 114 | C8H18    | 000565-75-3 | 91   |
| 2    |    | Heptane, 4-methyl-                  | 114 | C8H18    | 000589-53-7 | 83   |
| 3    |    | Pentane, 3-ethyl-                   | 100 | C7H16    | 000617-78-7 | 83   |
| 4    |    | Hexane, 3,3,4-trimethyl-            | 128 | C9H20    | 016747-31-2 | 74   |
| 5    |    | Ethanedioic acid, bis(3-methylbu... | 230 | C12H22O4 | 002051-00-5 | 74   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

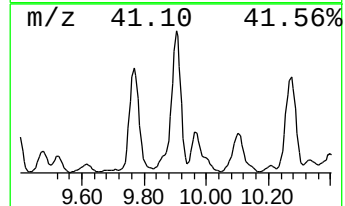
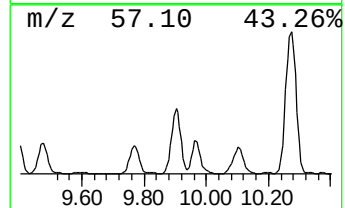
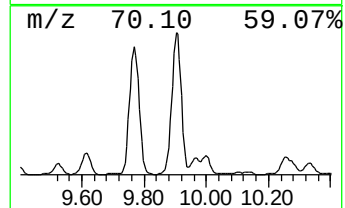
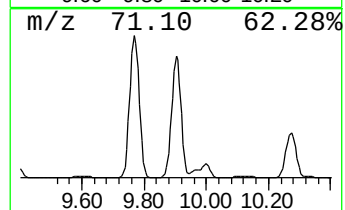
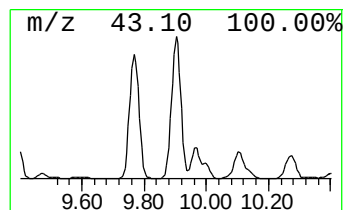
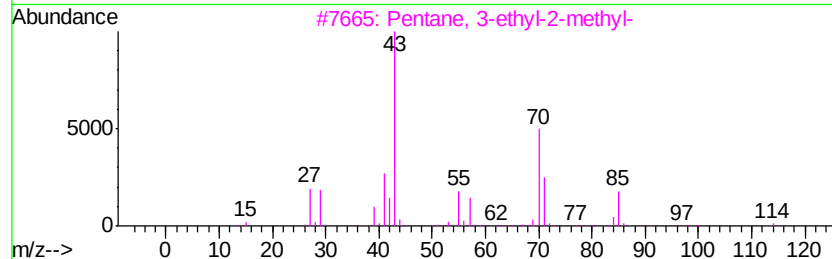
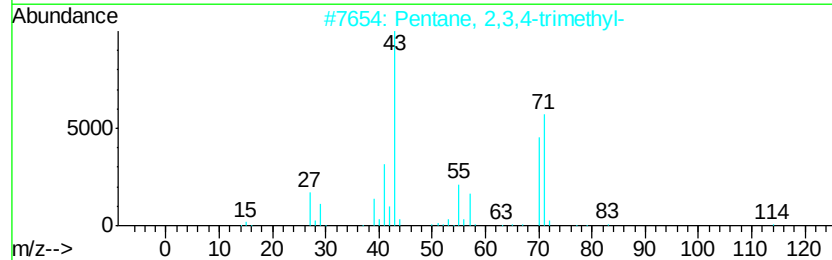
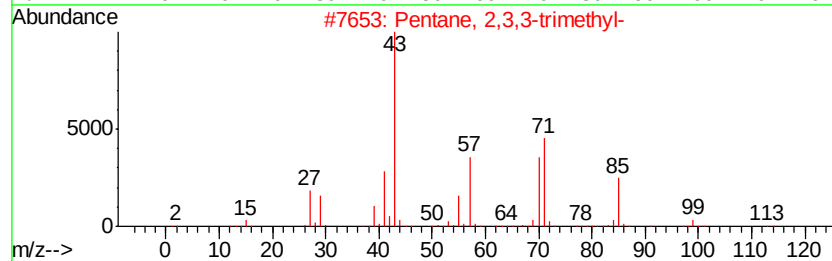
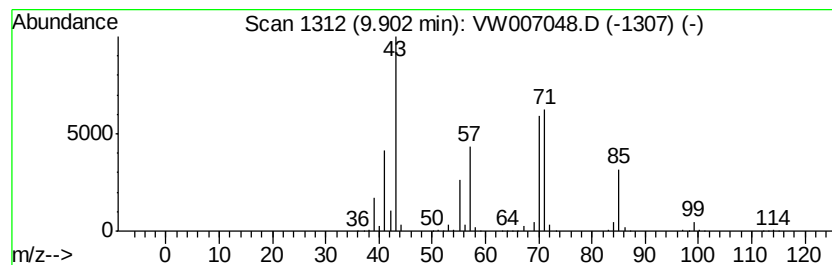
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Quant Title : SW846 8260

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

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Peak Number 4 Pentane, 2,3,3-trimethyl- Concentration Rank 4

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.90 | 122.47 ug/l | 19711600 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,3-trimethyl-  | 114 | C8H18   | 000560-21-4 | 83   |
| 2    |    | Pentane, 2,3,4-trimethyl-  | 114 | C8H18   | 000565-75-3 | 74   |
| 3    |    | Pentane, 3-ethyl-2-methyl- | 114 | C8H18   | 000609-26-7 | 64   |
| 4    |    | Decane, 3,3,4-trimethyl-   | 184 | C13H28  | 049622-18-6 | 64   |
| 5    |    | Heptane, 4-methyl-         | 114 | C8H18   | 000589-53-7 | 64   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

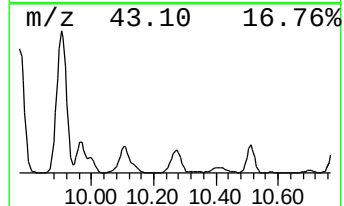
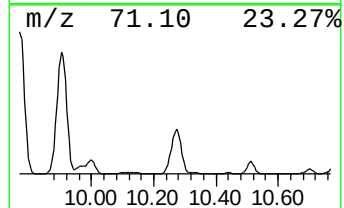
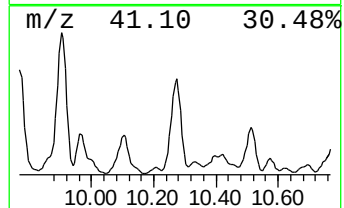
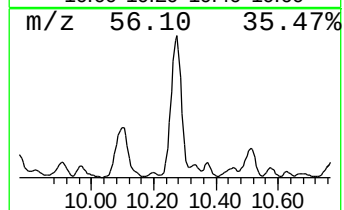
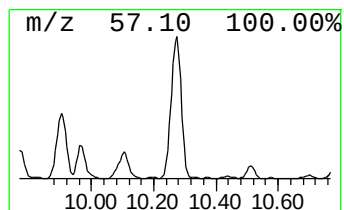
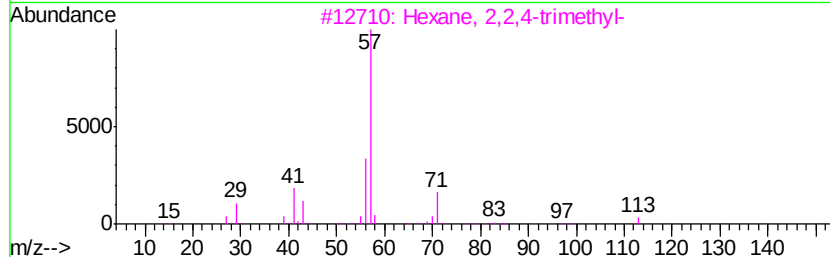
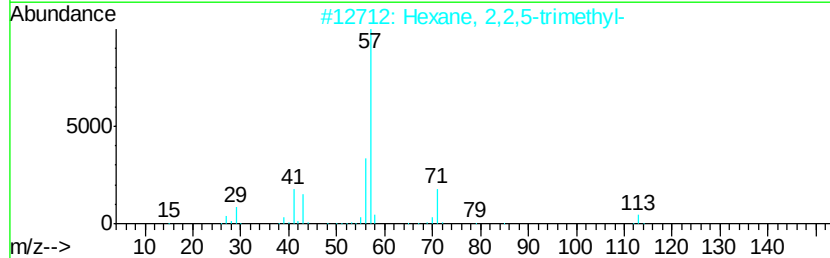
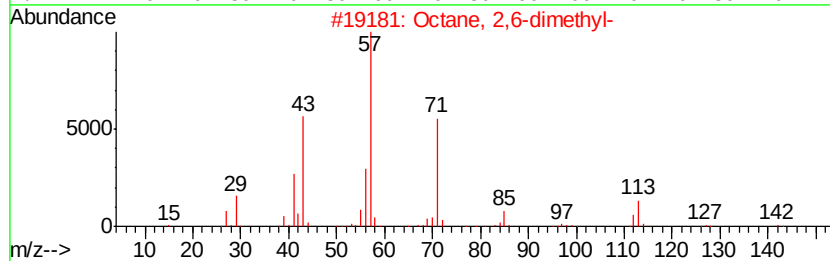
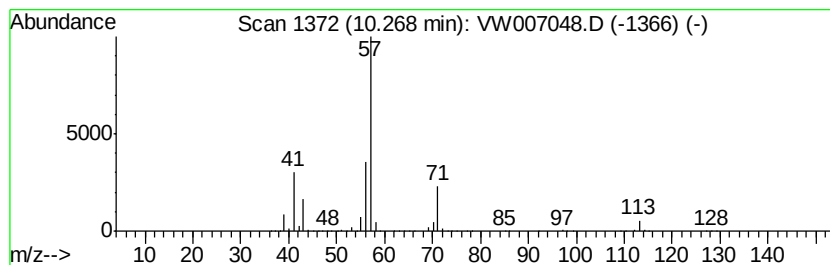
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Octane, 2,6-dimethyl- Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 10.27 | 275.71 ug/l | 12439800 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-        | 142 | C10H22  | 002051-30-1 | 83   |
| 2    |    | Hexane, 2,2,5-trimethyl-     | 128 | C9H20   | 003522-94-9 | 83   |
| 3    |    | Hexane, 2,2,4-trimethyl-     | 128 | C9H20   | 016747-26-5 | 72   |
| 4    |    | Heptane, 2,2-dimethyl-       | 128 | C9H20   | 001071-26-7 | 64   |
| 5    |    | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22  | 001071-81-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

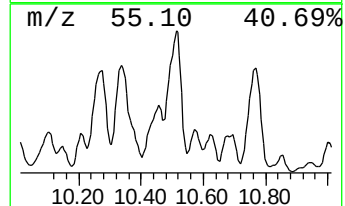
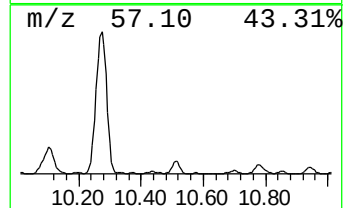
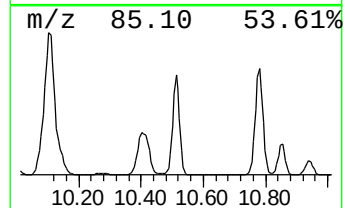
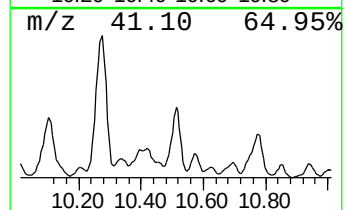
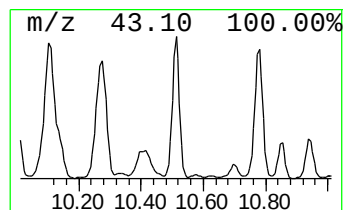
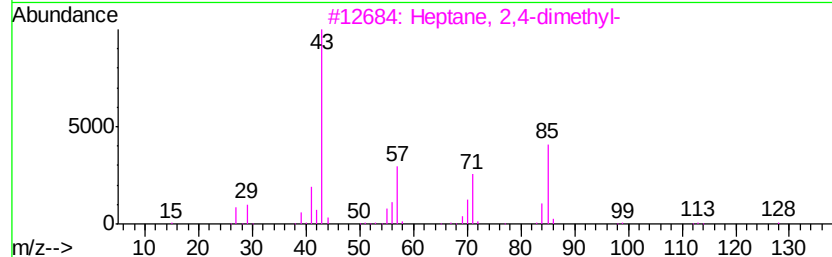
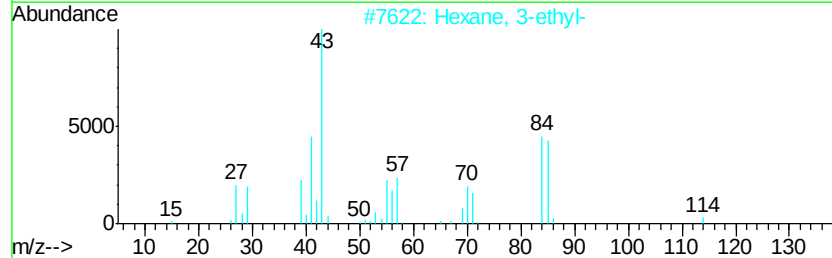
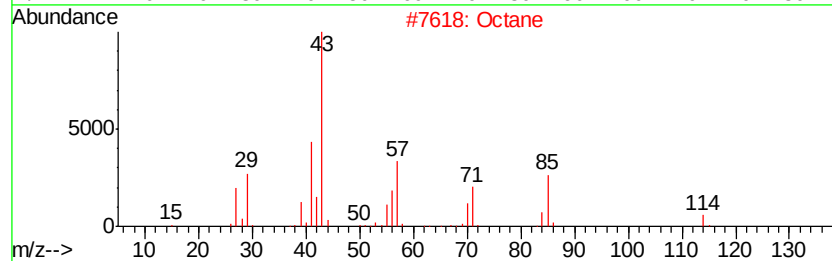
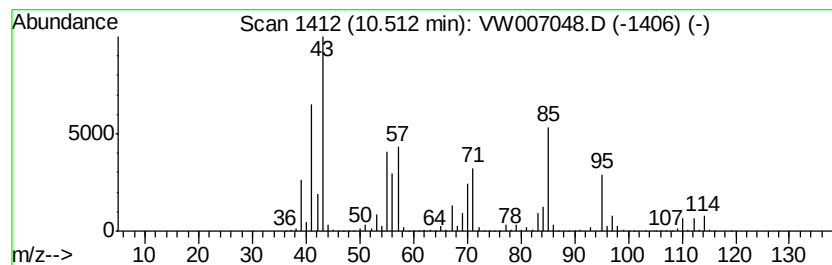
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MSVOA\_W  
ClientSampleId :  
AOC2-05

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 6 Octane Concentration Rank 3

| R.T.    | EstConc                            | Area         | Relative to ISTD | R.T.           |
|---------|------------------------------------|--------------|------------------|----------------|
| 10.51   | 130.15 ug/l                        | 5872070      | Chlorobenzene-d5 | 11.63          |
| Hit# of | 5                                  | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Octane                             |              | 114 C8H18        | 000111-65-9 81 |
| 2       | Hexane, 3-ethyl-                   |              | 114 C8H18        | 000619-99-8 76 |
| 3       | Heptane, 2,4-dimethyl-             |              | 128 C9H20        | 002213-23-2 49 |
| 4       | 1-Pentanol, 2-methyl-              |              | 102 C6H14O       | 000105-30-6 35 |
| 5       | 1-Trifluoroacetoxy-2-methylpentane |              | 198 C8H13F3O2    | 155089-96-6 35 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

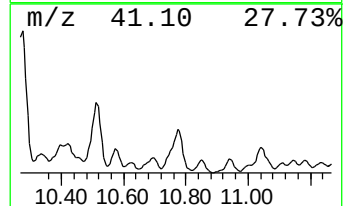
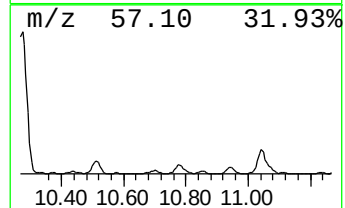
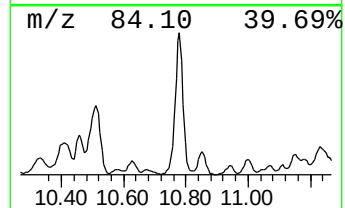
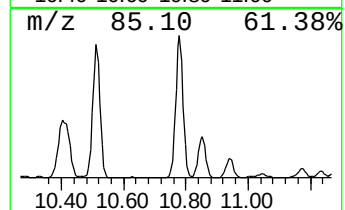
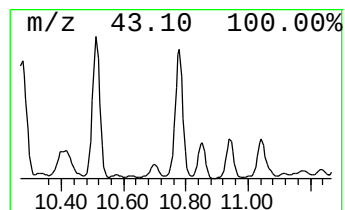
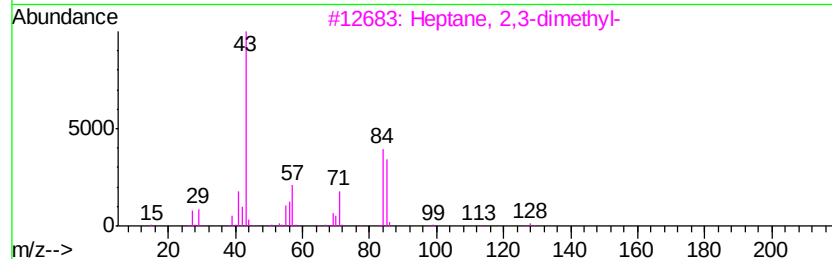
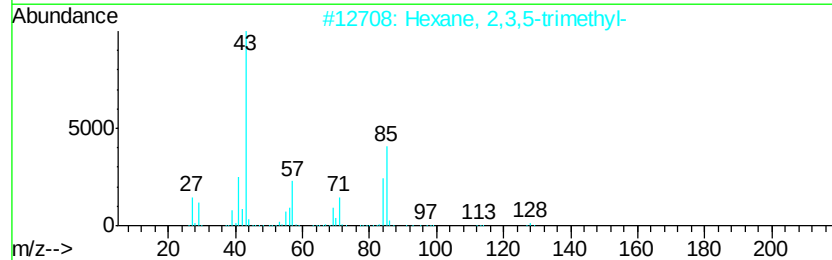
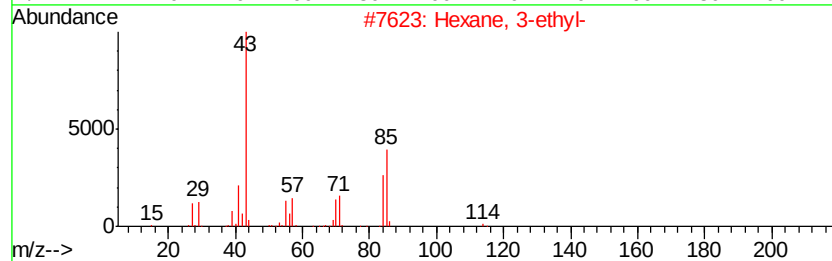
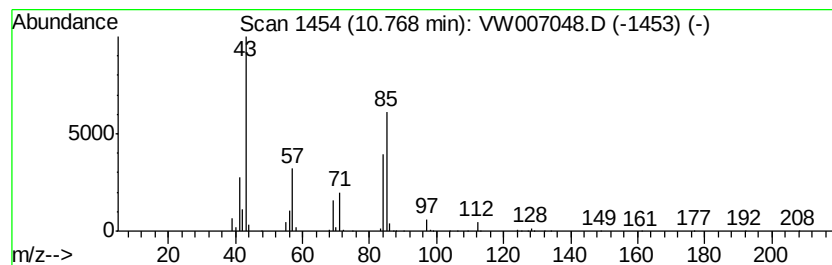
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ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 7 Hexane, 3-ethyl- Concentration Rank 10

| R.T.    | EstConc                        | Area         | Relative to ISTD | R.T.    |             |      |
|---------|--------------------------------|--------------|------------------|---------|-------------|------|
| 10.77   | 78.00 ug/l                     | 3519270      | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5                              | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Hexane, 3-ethyl-               |              | 114              | C8H18   | 000619-99-8 | 83   |
| 2       | Hexane, 2,3,5-trimethyl-       |              | 128              | C9H20   | 001069-53-0 | 64   |
| 3       | Heptane, 2,3-dimethyl-         |              | 128              | C9H20   | 003074-71-3 | 64   |
| 4       | Nonane, 5-methyl-              |              | 142              | C10H22  | 015869-85-9 | 64   |
| 5       | Pentane, 3-ethyl-2,4-dimethyl- |              | 128              | C9H20   | 001068-87-7 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Quant Title : SW846 8260

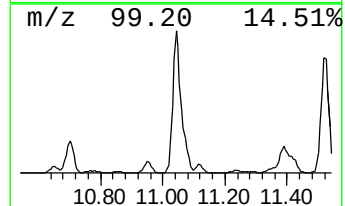
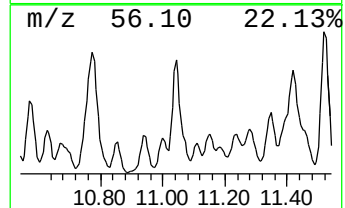
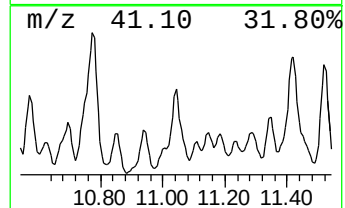
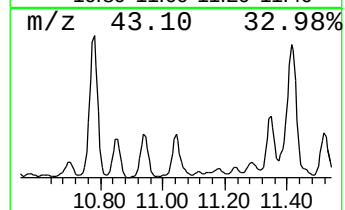
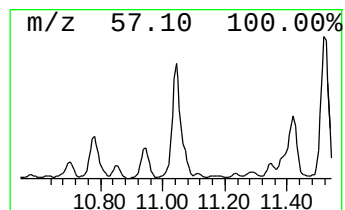
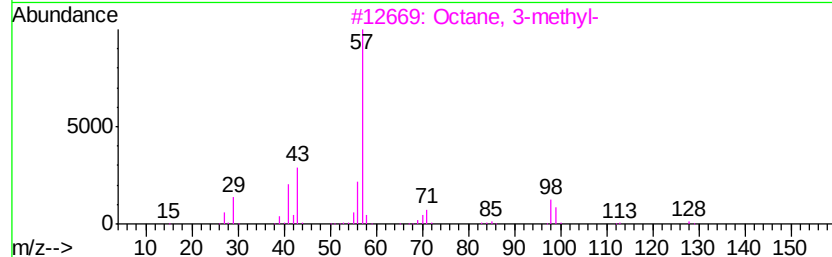
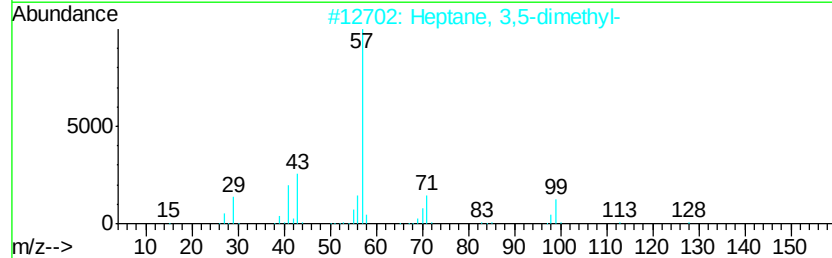
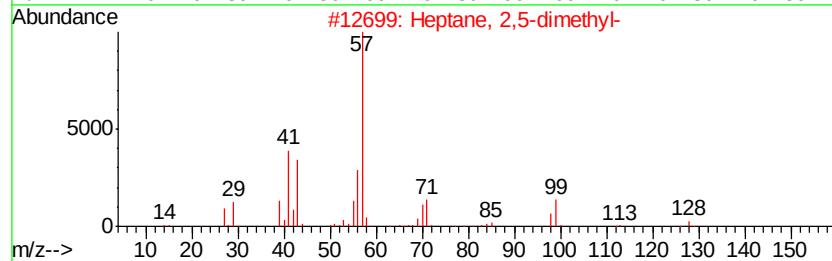
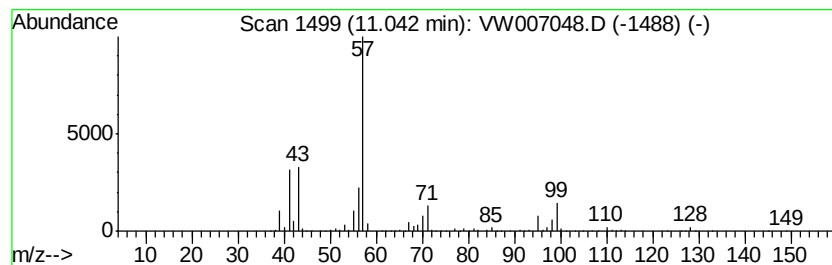
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heptane, 2,5-dimethyl- Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.04 | 79.14 ug/l | 3570680 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Heptane, 2,5-dimethyl-             | 128 | C9H20    | 002216-30-0  | 87   |
| 2    |    | Heptane, 3,5-dimethyl-             | 128 | C9H20    | 000926-82-9  | 87   |
| 3    |    | Octane, 3-methyl-                  | 128 | C9H20    | 002216-33-3  | 76   |
| 4    |    | Oxalic acid, isobutyl heptyl ester | 244 | C13H24O4 | 1000309-37-2 | 47   |
| 5    |    | 2,2,4,4-Tetramethyloctane          | 170 | C12H26   | 062183-79-3  | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

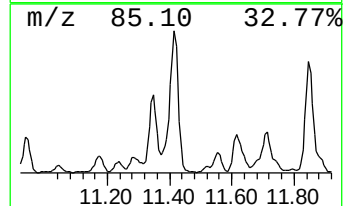
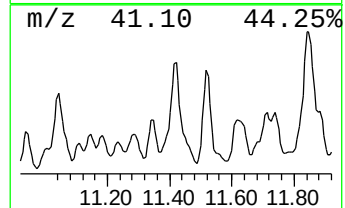
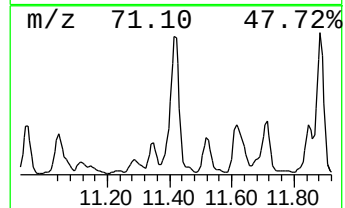
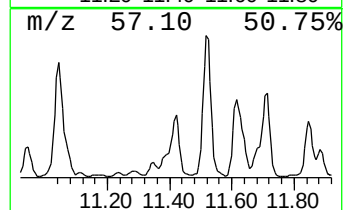
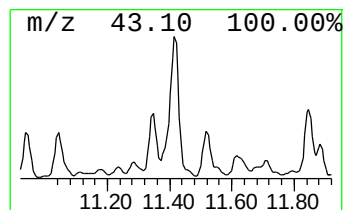
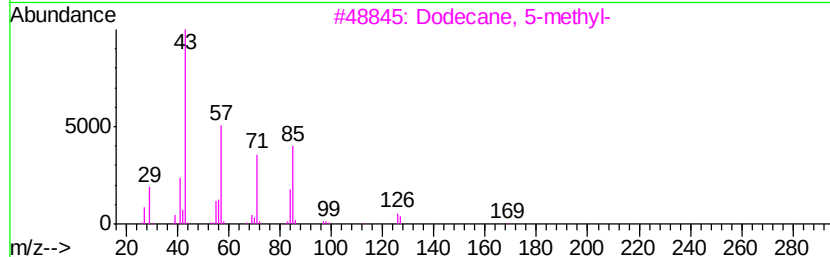
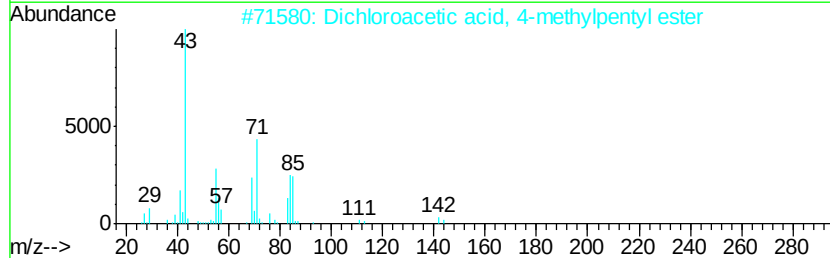
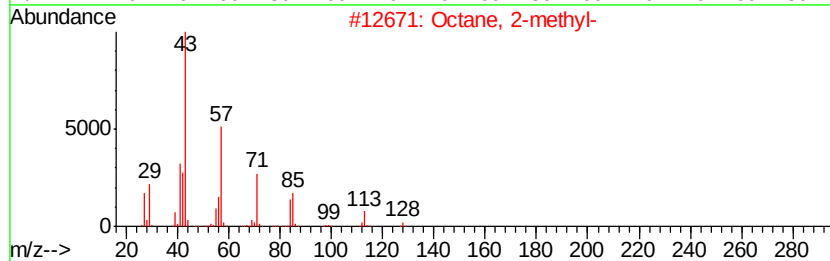
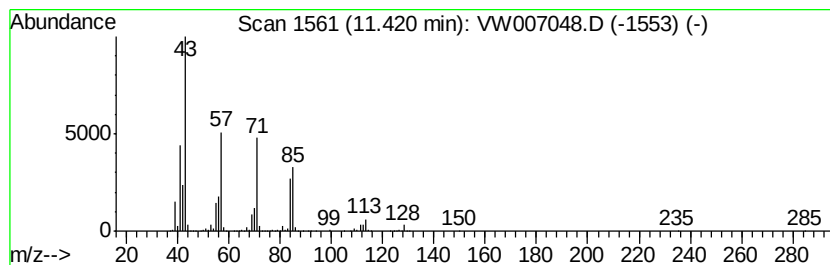
Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Octane, 2-methyl- Concentration Rank 7

| R.T.    | EstConc                             | Area           | Relative to ISTD | R.T.      |
|---------|-------------------------------------|----------------|------------------|-----------|
| 11.42   | 100.04 ug/l                         | 4513720        | Chlorobenzene-d5 | 11.63     |
| Hit# of | 5                                   | Tentative ID   | MW MolForm       | CAS# Qual |
| 1       | Octane, 2-methyl-                   | 128 C9H20      | 003221-61-2      | 87        |
| 2       | Dichloroacetic acid, 4-methylpen... | 212 C8H14Cl2O2 | 1000282-43-7     | 64        |
| 3       | Dodecane, 5-methyl-                 | 184 C13H28     | 017453-93-9      | 59        |
| 4       | Ether, hexyl pentyl                 | 172 C11H24O    | 032357-83-8      | 53        |
| 5       | Hexane, 2,3,4-trimethyl-            | 128 C9H20      | 000921-47-1      | 53        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

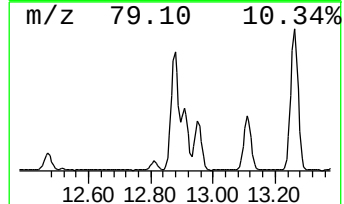
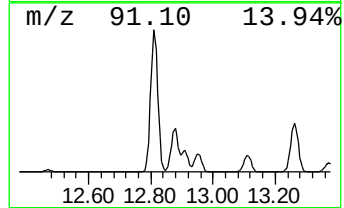
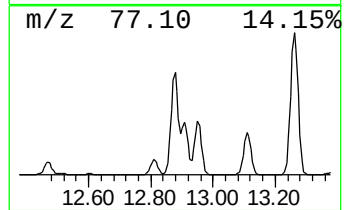
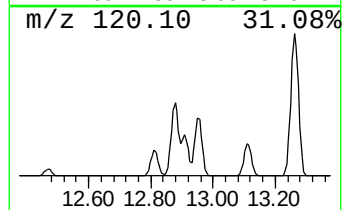
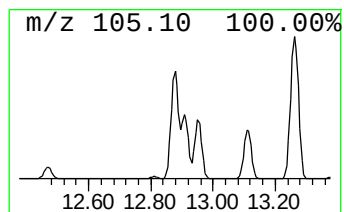
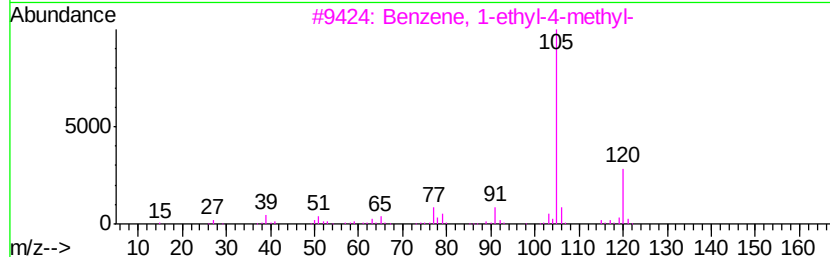
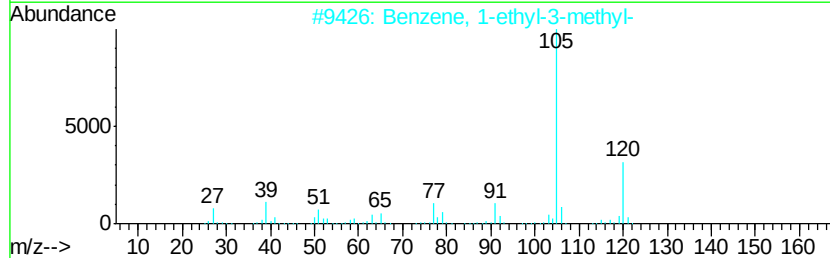
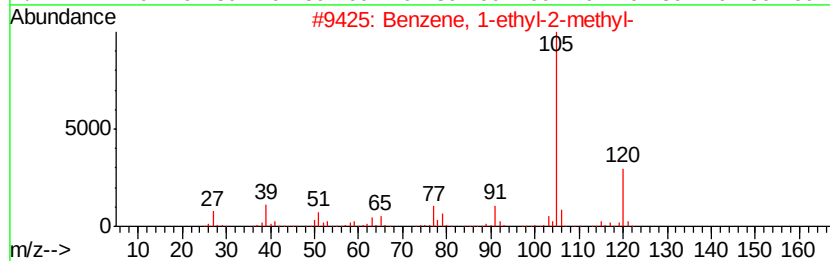
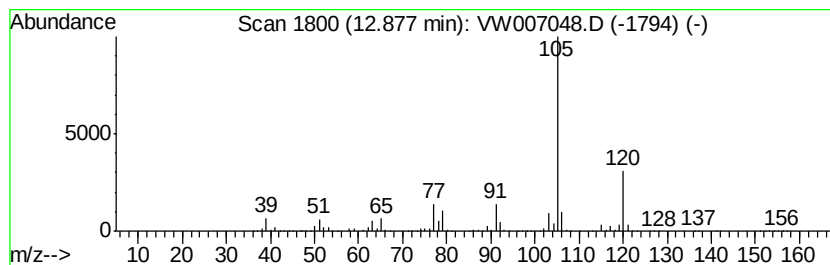
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 8

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 12.88 | 92.81 ug/l | 26232100 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
Data File : VW007048.D  
Acq On : 26 Nov 2018 15:34  
Operator : VAY/AP  
Sample : J6003-12  
Misc : 6.23G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-05

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.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 |
| Butane, 2-methyl-    | 3.03  | 112.9   | ug/l  | 24563700 | 1                     | 7.96  | 10880700 | 50.0 |
| Hexane, 2,2-dimet... | 8.49  | 237.9   | ug/l  | 38290000 | 2                     | 8.85  | 8047850  | 50.0 |
| Pentane, 2,3,4-tr... | 9.77  | 101.4   | ug/l  | 16321700 | 2                     | 8.85  | 8047850  | 50.0 |
| Pentane, 2,3,3-tr... | 9.90  | 122.5   | ug/l  | 19711600 | 2                     | 8.85  | 8047850  | 50.0 |
| Octane, 2,6-dimet... | 10.27 | 275.7   | ug/l  | 12439800 | 3                     | 11.63 | 2255930  | 50.0 |
| Octane               | 10.51 | 130.2   | ug/l  | 5872070  | 3                     | 11.63 | 2255930  | 50.0 |
| Hexane, 3-ethyl-     | 10.77 | 78.0    | ug/l  | 3519270  | 3                     | 11.63 | 2255930  | 50.0 |
| Heptane, 2,5-dime... | 11.04 | 79.1    | ug/l  | 3570680  | 3                     | 11.63 | 2255930  | 50.0 |
| Octane, 2-methyl-    | 11.42 | 100.0   | ug/l  | 4513720  | 3                     | 11.63 | 2255930  | 50.0 |
| Benzene, 1-ethyl-... | 12.88 | 92.8    | ug/l  | 26232100 | 4                     | 13.57 | 14132900 | 50.0 |