

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
 Data File : VW007092.D  
 Acq On : 27 Nov 2018 17:11  
 Operator : VAY/AP  
 Sample : J5996-01  
 Misc : 6.02G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 AOC2-01R

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       | 35            | 44          | 64           | rBV      | 2712994        | 4579529       | 4.02%           | 0.187%        |
| 2         | 2.343       | 64            | 72          | 86           | rVV      | 9096925        | 20139023      | 17.67%          | 0.823%        |
| 3         | 3.013       | 174           | 182         | 202          | rBV      | 24503329       | 82822153      | 72.65%          | 3.384%        |
| 4         | 3.300       | 223           | 229         | 235          | rBV      | 2208992        | 4677940       | 4.10%           | 0.191%        |
| 5         | 3.379       | 235           | 242         | 266          | rVB2     | 14311702       | 41788208      | 36.66%          | 1.707%        |
| 6         | 3.586       | 266           | 276         | 290          | rBV      | 7735136        | 19763271      | 17.34%          | 0.808%        |
| 7         | 3.757       | 290           | 304         | 311          | rBV      | 4381038        | 11967905      | 10.50%          | 0.489%        |
| 8         | 3.842       | 311           | 318         | 348          | rVB      | 14296235       | 40554226      | 35.58%          | 1.657%        |
| 9         | 4.105       | 349           | 361         | 405          | rVB      | 1250648        | 4374250       | 3.84%           | 0.179%        |
| 10        | 4.787       | 451           | 473         | 481          | rBV5     | 3560324        | 14568478      | 12.78%          | 0.595%        |
| 11        | 4.909       | 481           | 493         | 495          | rBV      | 8195559        | 24582610      | 21.56%          | 1.004%        |
| 12        | 4.970       | 497           | 503         | 516          | rVB      | 13399403       | 46918609      | 41.16%          | 1.917%        |
| 13        | 5.446       | 557           | 581         | 597          | rBV      | 11183354       | 42010781      | 36.85%          | 1.717%        |
| 14        | 5.763       | 617           | 633         | 650          | rBV4     | 4245779        | 17642235      | 15.48%          | 0.721%        |
| 15        | 5.952       | 650           | 664         | 678          | rVB      | 8634398        | 28625681      | 25.11%          | 1.170%        |
| 16        | 6.116       | 678           | 691         | 700          | rBV      | 3755287        | 11877931      | 10.42%          | 0.485%        |
| 17        | 6.238       | 700           | 711         | 715          | rBV      | 4627302        | 15109550      | 13.25%          | 0.617%        |
| 18        | 6.299       | 715           | 721         | 733          | rVB      | 7587496        | 23400197      | 20.53%          | 0.956%        |
| 19        | 6.440       | 733           | 744         | 752          | rBV      | 4626136        | 14950953      | 13.12%          | 0.611%        |
| 20        | 6.568       | 752           | 765         | 773          | rBV3     | 2630363        | 12210221      | 10.71%          | 0.499%        |
| 21        | 6.738       | 783           | 793         | 806          | rVB      | 7399399        | 22994536      | 20.17%          | 0.940%        |
| 22        | 6.897       | 806           | 819         | 827          | rBV      | 8286564        | 29248596      | 25.66%          | 1.195%        |
| 23        | 7.000       | 827           | 836         | 843          | rVV      | 11671366       | 36895486      | 32.37%          | 1.508%        |
| 24        | 7.068       | 843           | 847         | 857          | rVB      | 2930074        | 7062393       | 6.20%           | 0.289%        |
| 25        | 7.641       | 932           | 941         | 944          | rBV2     | 1592480        | 4125249       | 3.62%           | 0.169%        |
| 26        | 7.708       | 944           | 952         | 961          | rVB      | 9003309        | 24149777      | 21.19%          | 0.987%        |
| 27        | 7.945       | 982           | 991         | 1001         | rBV4     | 10040385       | 34828448      | 30.55%          | 1.423%        |
| 28        | 8.055       | 1001          | 1009        | 1019         | rVB      | 15013090       | 44515210      | 39.05%          | 1.819%        |
| 29        | 8.177       | 1019          | 1029        | 1038         | rBV      | 9622125        | 26415526      | 23.17%          | 1.079%        |
| 30        | 8.336       | 1045          | 1055        | 1066         | rBV2     | 23878451       | 63295972      | 55.53%          | 2.586%        |
| 31        | 8.518       | 1066          | 1085        | 1094         | rBV3     | 27810460       | 113994439     | 100.00%         | 4.658%        |
| 32        | 8.598       | 1094          | 1098        | 1106         | rVB      | 4756430        | 10510458      | 9.22%           | 0.429%        |
| 33        | 8.714       | 1106          | 1117        | 1130         | rVB4     | 7567020        | 24075354      | 21.12%          | 0.984%        |
| 34        | 8.848       | 1130          | 1139        | 1145         | rBV3     | 10882663       | 29921910      | 26.25%          | 1.223%        |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 AOC2-01R

## 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

|    |        |      |      |      |      |          |           |        |        |
|----|--------|------|------|------|------|----------|-----------|--------|--------|
| 35 | 8.903  | 1145 | 1148 | 1160 | rVB2 | 6185763  | 13593494  | 11.92% | 0.555% |
| 36 | 9.006  | 1160 | 1165 | 1172 | rVB  | 3103645  | 6309577   | 5.53%  | 0.258% |
| 37 | 9.092  | 1172 | 1179 | 1180 | rBV3 | 3097916  | 5740550   | 5.04%  | 0.235% |
| 38 | 9.128  | 1182 | 1185 | 1205 | rVB  | 4409210  | 9549357   | 8.38%  | 0.390% |
| 39 | 9.348  | 1205 | 1221 | 1226 | rBV2 | 15594042 | 47596077  | 41.75% | 1.945% |
| 40 | 9.402  | 1226 | 1230 | 1238 | rVB  | 8624085  | 19097941  | 16.75% | 0.780% |
| 41 | 9.488  | 1238 | 1244 | 1248 | rBV  | 3615118  | 8330499   | 7.31%  | 0.340% |
| 42 | 9.531  | 1248 | 1251 | 1257 | rVB  | 3209032  | 5631491   | 4.94%  | 0.230% |
| 43 | 9.622  | 1257 | 1266 | 1273 | rBV2 | 2226456  | 5916689   | 5.19%  | 0.242% |
| 44 | 9.719  | 1273 | 1282 | 1284 | rBV2 | 1156926  | 3467069   | 3.04%  | 0.142% |
| 45 | 9.787  | 1284 | 1293 | 1301 | rBV  | 19969741 | 51517655  | 45.19% | 2.105% |
| 46 | 9.921  | 1301 | 1315 | 1321 | rBV2 | 29166076 | 83947875  | 73.64% | 3.430% |
| 47 | 9.982  | 1321 | 1325 | 1338 | rVB3 | 6617690  | 21668128  | 19.01% | 0.885% |
| 48 | 10.122 | 1338 | 1348 | 1359 | rBV4 | 5811978  | 20218785  | 17.74% | 0.826% |
| 49 | 10.219 | 1359 | 1364 | 1368 | rBV  | 3040405  | 6527163   | 5.73%  | 0.267% |
| 50 | 10.317 | 1369 | 1380 | 1386 | rBV  | 14794482 | 40016594  | 35.10% | 1.635% |
| 51 | 10.402 | 1386 | 1394 | 1400 | rBV3 | 29706659 | 101342751 | 88.90% | 4.141% |
| 52 | 10.524 | 1409 | 1414 | 1420 | rVB3 | 9587561  | 19394432  | 17.01% | 0.792% |
| 53 | 10.701 | 1436 | 1443 | 1447 | rBV5 | 1771589  | 4728782   | 4.15%  | 0.193% |
| 54 | 10.756 | 1447 | 1452 | 1453 | rBV  | 6077389  | 8756898   | 7.68%  | 0.358% |
| 55 | 10.780 | 1454 | 1456 | 1463 | rVB2 | 8277539  | 14195336  | 12.45% | 0.580% |
| 56 | 10.860 | 1463 | 1469 | 1475 | rVB2 | 2435507  | 5105232   | 4.48%  | 0.209% |
| 57 | 10.945 | 1475 | 1483 | 1489 | rBV2 | 2378513  | 5801927   | 5.09%  | 0.237% |
| 58 | 11.049 | 1489 | 1500 | 1507 | rBV3 | 4070508  | 13712423  | 12.03% | 0.560% |
| 59 | 11.433 | 1555 | 1563 | 1573 | rVB4 | 5087221  | 16363327  | 14.35% | 0.669% |
| 60 | 11.536 | 1573 | 1580 | 1590 | rBV  | 3637644  | 9573072   | 8.40%  | 0.391% |
| 61 | 11.646 | 1591 | 1598 | 1604 | rBV3 | 3360056  | 8850520   | 7.76%  | 0.362% |
| 62 | 11.750 | 1605 | 1615 | 1624 | rVB2 | 31864488 | 84469307  | 74.10% | 3.451% |
| 63 | 11.847 | 1624 | 1631 | 1635 | rBV3 | 33969308 | 81205923  | 71.24% | 3.318% |
| 64 | 12.091 | 1658 | 1671 | 1676 | rBV4 | 2848812  | 9005585   | 7.90%  | 0.368% |
| 65 | 12.182 | 1677 | 1686 | 1694 | rVB3 | 34341193 | 95843600  | 84.08% | 3.916% |
| 66 | 12.262 | 1694 | 1699 | 1704 | rVB  | 2431768  | 4606005   | 4.04%  | 0.188% |
| 67 | 12.347 | 1704 | 1713 | 1716 | rBV5 | 1931722  | 5269117   | 4.62%  | 0.215% |
| 68 | 12.475 | 1729 | 1734 | 1739 | rBV  | 5931721  | 10870476  | 9.54%  | 0.444% |
| 69 | 12.603 | 1749 | 1755 | 1762 | rVB  | 8375780  | 18181347  | 15.95% | 0.743% |
| 70 | 12.670 | 1762 | 1766 | 1770 | rBV  | 1918184  | 3070570   | 2.69%  | 0.125% |
| 71 | 12.816 | 1779 | 1790 | 1795 | rBV  | 17400526 | 37254835  | 32.68% | 1.522% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 AOC2-01R

## 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  | 12.890 | 1795 | 1802 | 1806 | rBV2 | 31776192 | 84962491 | 74.53% | 3.472% |
| 73  | 12.963 | 1811 | 1814 | 1821 | rVB  | 29267275 | 51132177 | 44.85% | 2.089% |
| 74  | 13.121 | 1833 | 1840 | 1848 | rBV  | 23241794 | 43789054 | 38.41% | 1.789% |
| 75  | 13.207 | 1848 | 1854 | 1858 | rBV  | 2853675  | 4474093  | 3.92%  | 0.183% |
| 76  | 13.268 | 1858 | 1864 | 1866 | rBV2 | 32560945 | 60560049 | 53.13% | 2.474% |
| 77  | 13.420 | 1876 | 1889 | 1892 | rBV4 | 4453951  | 13061150 | 11.46% | 0.534% |
| 78  | 13.457 | 1892 | 1895 | 1899 | rVV2 | 3331018  | 5163429  | 4.53%  | 0.211% |
| 79  | 13.603 | 1910 | 1919 | 1931 | rVB2 | 26285541 | 56592457 | 49.64% | 2.312% |
| 80  | 13.731 | 1934 | 1940 | 1941 | rBV  | 5904694  | 8016071  | 7.03%  | 0.328% |
| 81  | 13.768 | 1941 | 1946 | 1950 | rVV2 | 23035934 | 48735733 | 42.75% | 1.991% |
| 82  | 13.804 | 1950 | 1952 | 1962 | rVB3 | 16054107 | 27920340 | 24.49% | 1.141% |
| 83  | 13.889 | 1962 | 1966 | 1971 | rBV2 | 3797416  | 5788270  | 5.08%  | 0.237% |
| 84  | 13.957 | 1972 | 1977 | 1982 | rVB2 | 4771831  | 8025674  | 7.04%  | 0.328% |
| 85  | 14.024 | 1982 | 1988 | 1990 | rBV  | 8405994  | 13576818 | 11.91% | 0.555% |
| 86  | 14.054 | 1990 | 1993 | 1997 | rVB  | 7572109  | 11022509 | 9.67%  | 0.450% |
| 87  | 14.109 | 1997 | 2002 | 2008 | rVB  | 13277882 | 21110312 | 18.52% | 0.863% |
| 88  | 14.219 | 2015 | 2020 | 2025 | rVB2 | 8675908  | 14954093 | 13.12% | 0.611% |
| 89  | 14.347 | 2036 | 2041 | 2046 | rBV  | 3711805  | 6250246  | 5.48%  | 0.255% |
| 90  | 14.432 | 2046 | 2055 | 2058 | rBV  | 7541452  | 14293109 | 12.54% | 0.584% |
| 91  | 14.469 | 2058 | 2061 | 2065 | rVB  | 8280823  | 10816517 | 9.49%  | 0.442% |
| 92  | 14.511 | 2065 | 2068 | 2072 | rVB2 | 3461635  | 4301614  | 3.77%  | 0.176% |
| 93  | 14.548 | 2072 | 2074 | 2080 | rVB  | 2620245  | 3565640  | 3.13%  | 0.146% |
| 94  | 14.652 | 2087 | 2091 | 2094 | rBV  | 2611210  | 3474484  | 3.05%  | 0.142% |
| 95  | 14.700 | 2094 | 2099 | 2103 | rBV  | 7449028  | 13075693 | 11.47% | 0.534% |
| 96  | 14.822 | 2110 | 2119 | 2124 | rBV2 | 9964700  | 23511227 | 20.62% | 0.961% |
| 97  | 14.865 | 2124 | 2126 | 2137 | rVV3 | 1906039  | 3767539  | 3.31%  | 0.154% |
| 98  | 15.072 | 2155 | 2160 | 2164 | rBV2 | 2133472  | 3395619  | 2.98%  | 0.139% |
| 99  | 15.188 | 2172 | 2179 | 2186 | rVB3 | 2486756  | 6041420  | 5.30%  | 0.247% |
| 100 | 15.377 | 2199 | 2210 | 2217 | rBV  | 7599816  | 14709916 | 12.90% | 0.601% |

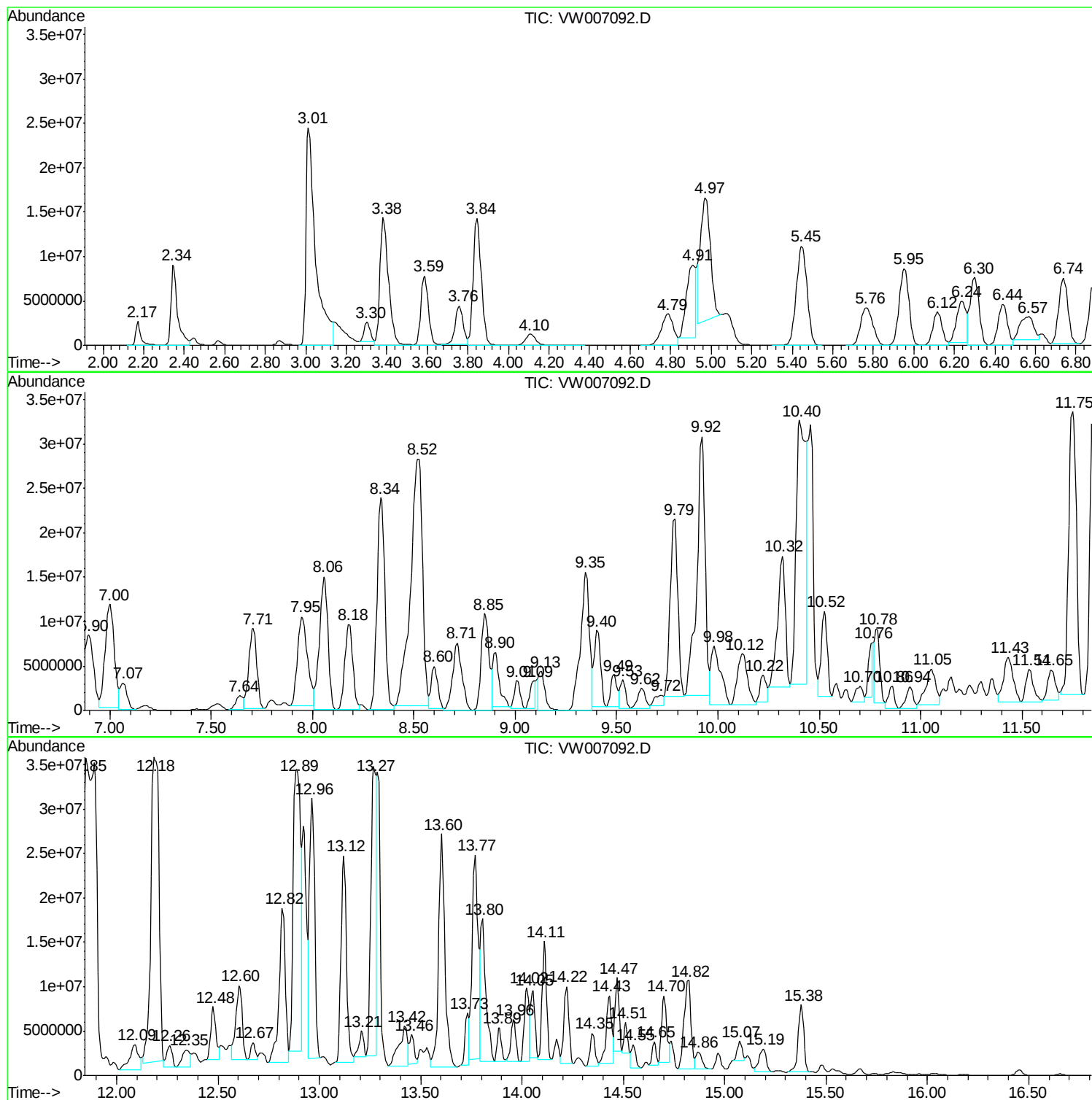
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Instrument :  
MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
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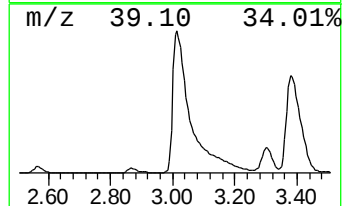
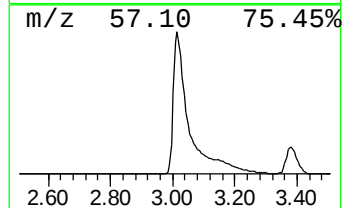
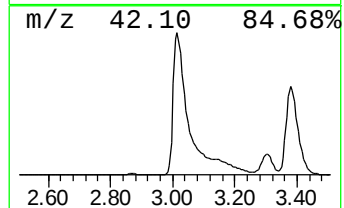
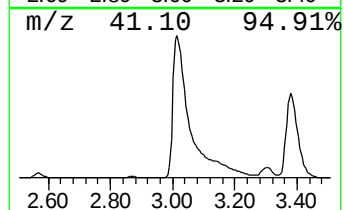
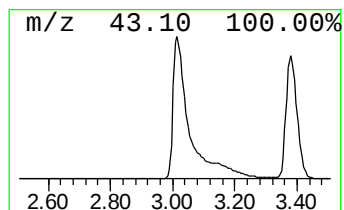
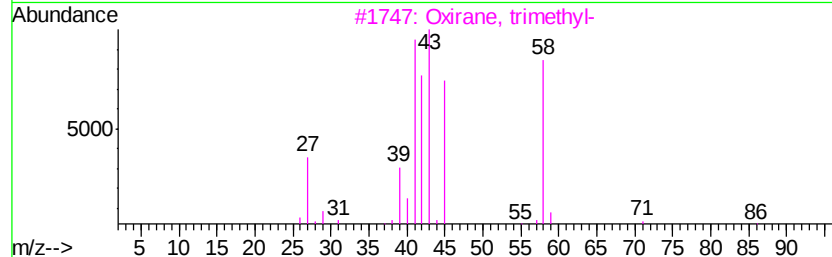
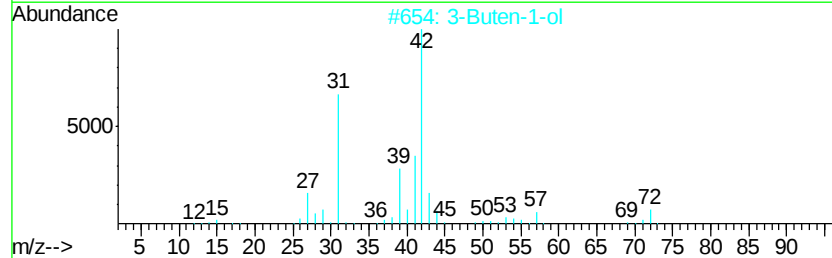
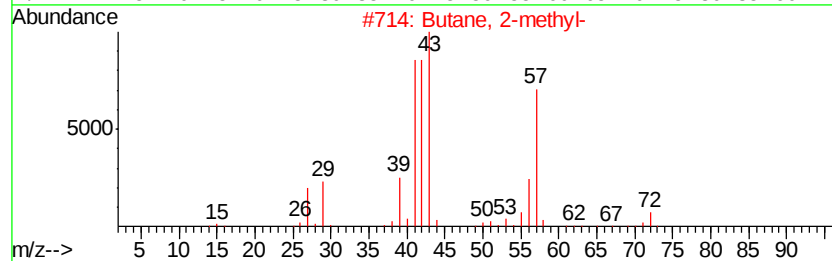
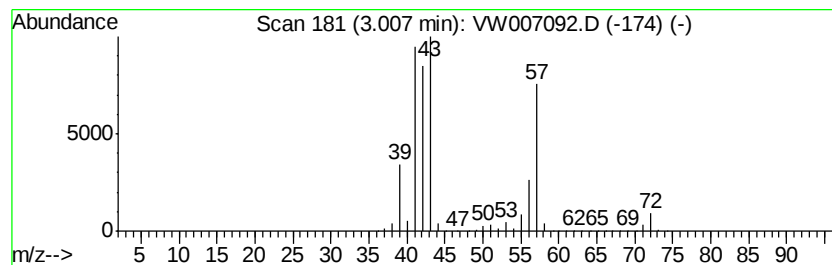
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Butane, 2-methyl- Concentration Rank 3

| R.T.    | EstConc     | Area                | Relative to ISTD   | R.T.    |             |      |
|---------|-------------|---------------------|--------------------|---------|-------------|------|
| 3.01    | 118.90 ug/l | 82822200            | Pentafluorobenzene | 7.96    |             |      |
| Hit# of | 5           | Tentative ID        | MW                 | MolForm | CAS#        | Qual |
| 1       |             | Butane, 2-methyl-   | 72                 | C5H12   | 000078-78-4 | 94   |
| 2       |             | 3-Buten-1-ol        | 72                 | C4H8O   | 000627-27-0 | 38   |
| 3       |             | Oxirane, trimethyl- | 86                 | C5H10O  | 005076-19-7 | 33   |
| 4       |             | Pentane             | 72                 | C5H12   | 000109-66-0 | 28   |
| 5       |             | 1-Butene            | 56                 | C4H8    | 000106-98-9 | 10   |



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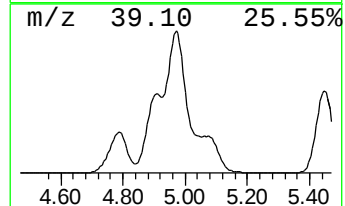
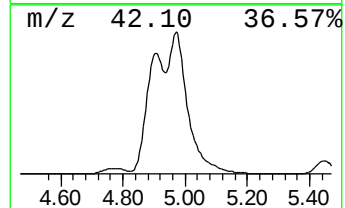
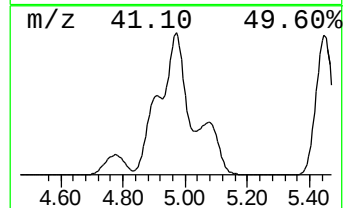
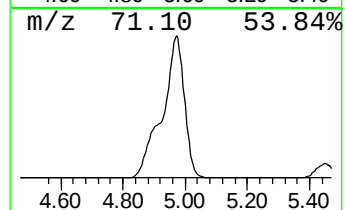
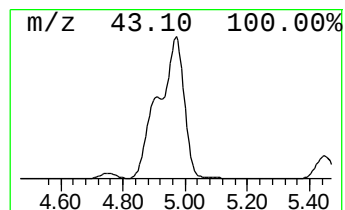
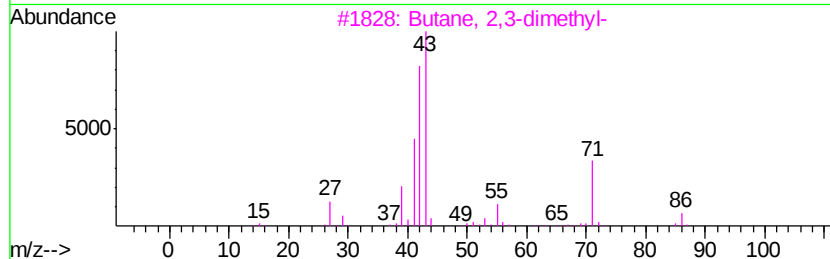
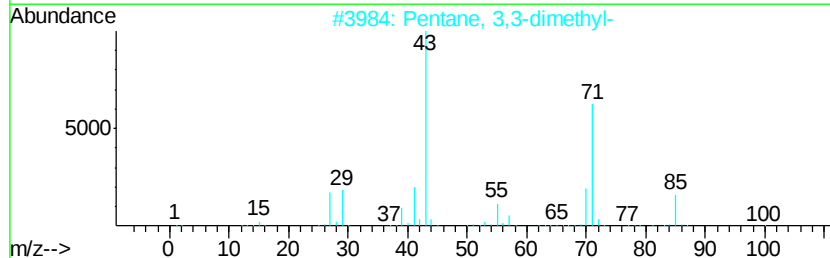
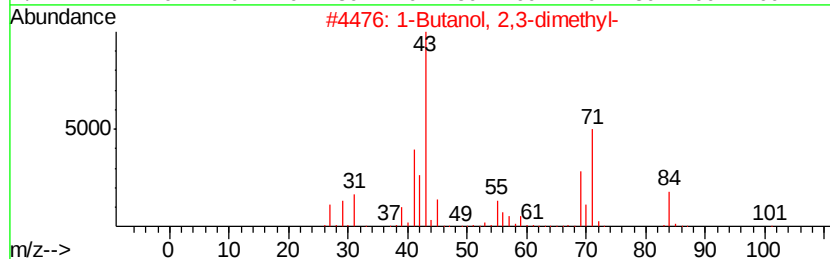
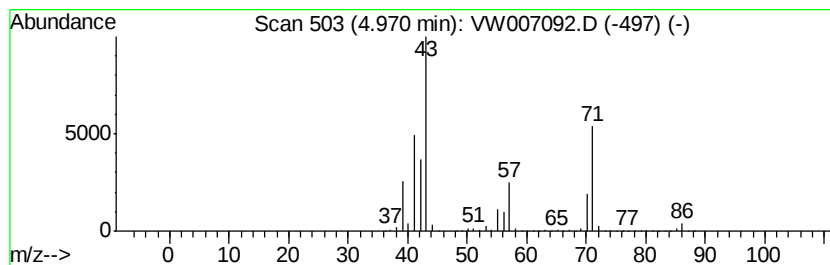
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260

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

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Peak Number 2 1-Butanol, 2,3-dimethyl- Concentration Rank 10

| R.T. | EstConc    | Area     | Relative to ISTD   | R.T. |
|------|------------|----------|--------------------|------|
| 4.97 | 67.36 ug/l | 46918600 | Pentafluorobenzene | 7.96 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Butanol, 2,3-dimethyl- | 102 | C6H14O  | 019550-30-2 | 74   |
| 2    |    | Pentane, 3,3-dimethyl-   | 100 | C7H16   | 000562-49-2 | 53   |
| 3    |    | Butane, 2,3-dimethyl-    | 86  | C6H14   | 000079-29-8 | 43   |
| 4    |    | Pentane, 2-methyl-       | 86  | C6H14   | 000107-83-5 | 43   |
| 5    |    | Heptane, 4-methyl-       | 114 | C8H18   | 000589-53-7 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-01R

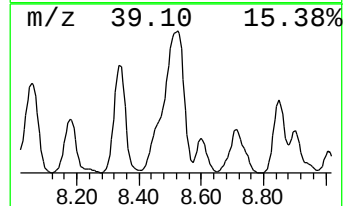
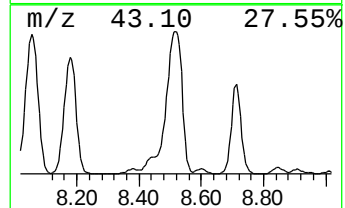
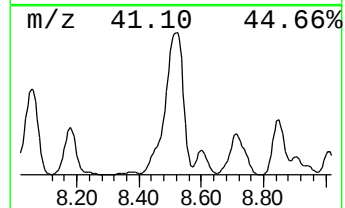
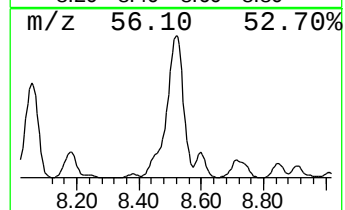
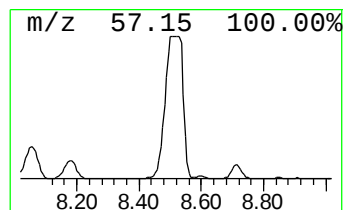
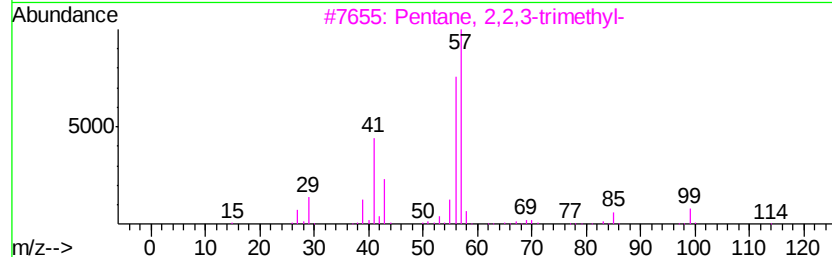
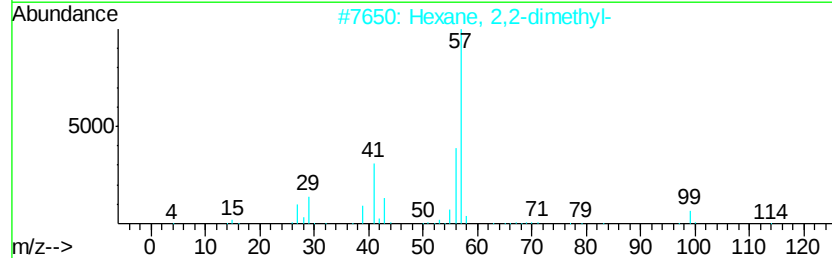
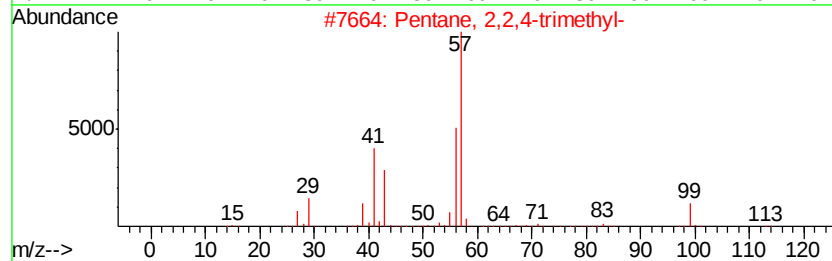
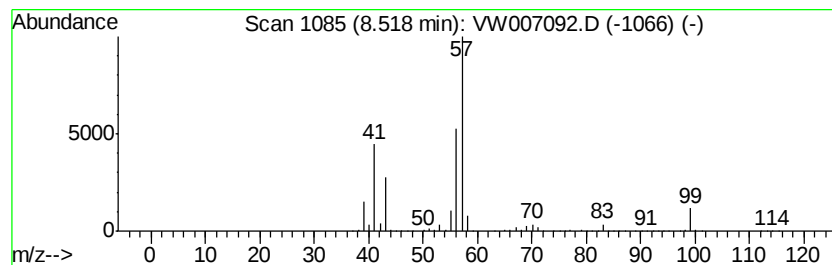
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Quant Title : SW846 8260

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

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Peak Number 3 Pentane, 2,2,4-trimethyl- Concentration Rank 1

| R.T. | EstConc     | Area      | Relative to ISTD    | R.T. |
|------|-------------|-----------|---------------------|------|
| 8.52 | 190.49 ug/l | 113994000 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,2,4-trimethyl-      | 114 | C8H18   | 000540-84-1 | 78   |
| 2    |    | Hexane, 2,2-dimethyl-          | 114 | C8H18   | 000590-73-8 | 72   |
| 3    |    | Pentane, 2,2,3-trimethyl-      | 114 | C8H18   | 000564-02-3 | 72   |
| 4    |    | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20   | 016747-32-3 | 59   |
| 5    |    | Pentane, 2,2,4,4-tetramethyl-  | 128 | C9H20   | 001070-87-7 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-01R

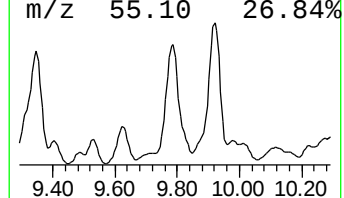
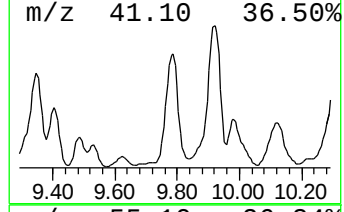
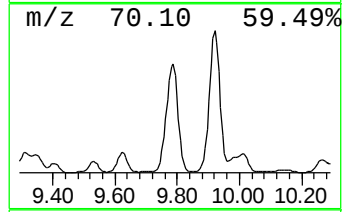
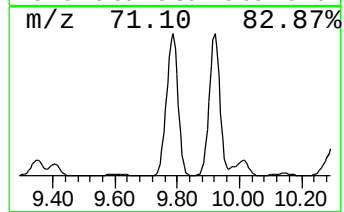
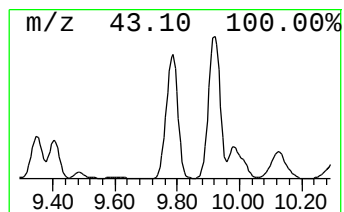
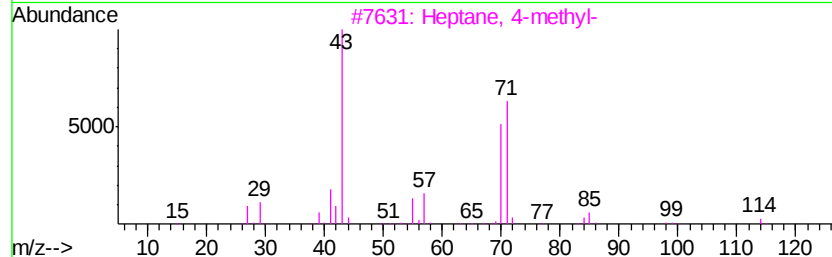
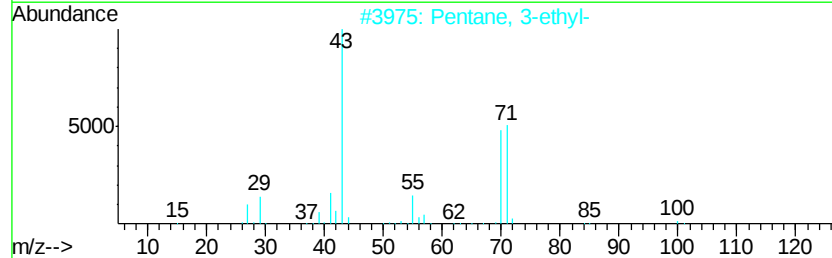
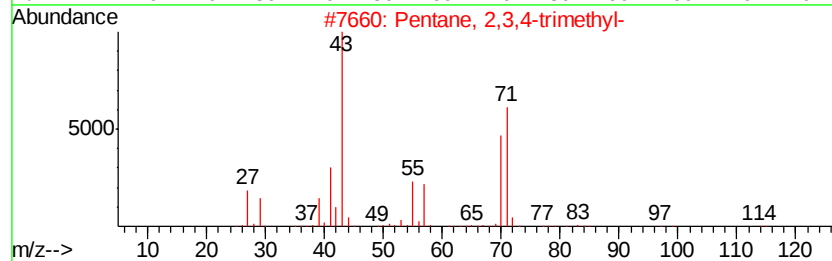
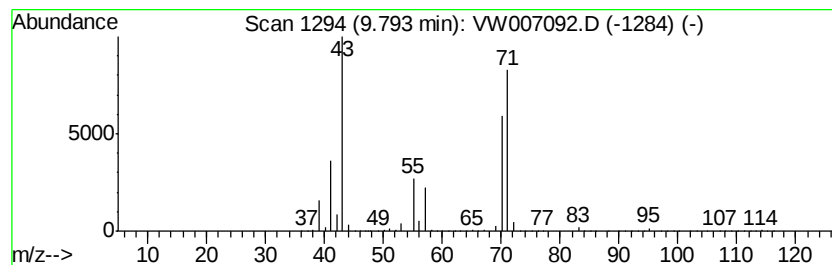
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Quant Title : SW846 8260

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

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

| R.T. | EstConc    | Area     | Relative to ISTD    | R.T. |
|------|------------|----------|---------------------|------|
| 9.79 | 86.09 ug/l | 51517700 | 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    |    | Pentane, 3-ethyl-                   | 100 | C7H16    | 000617-78-7 | 83   |
| 3    |    | Heptane, 4-methyl-                  | 114 | C8H18    | 000589-53-7 | 83   |
| 4    |    | 2,4,4-Trimethyl-1-hexene            | 126 | C9H18    | 051174-12-0 | 78   |
| 5    |    | Ethanedioic acid, bis(3-methylbu... | 230 | C12H22O4 | 002051-00-5 | 74   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleID :  
AOC2-01R

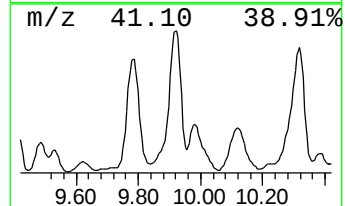
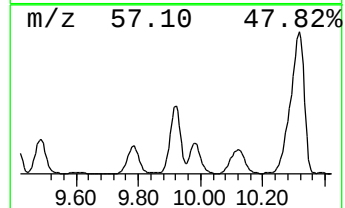
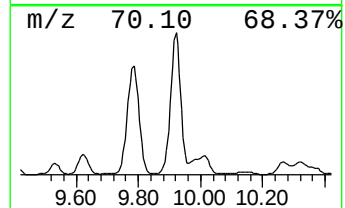
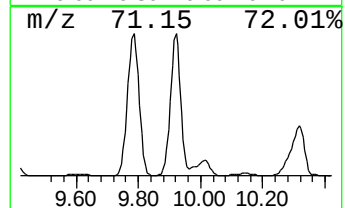
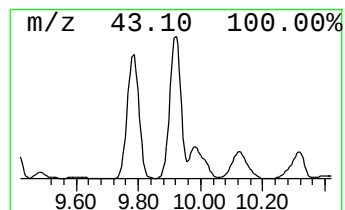
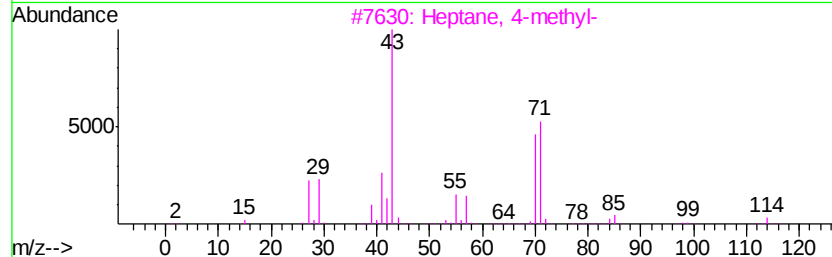
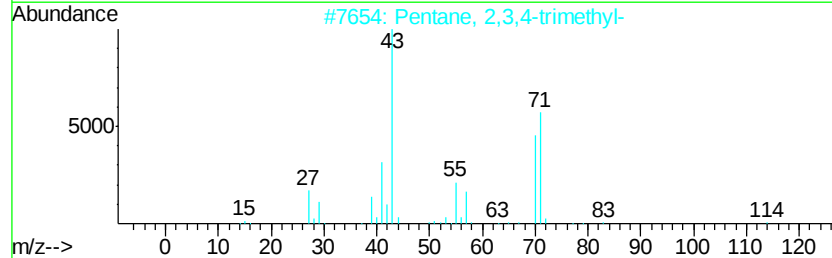
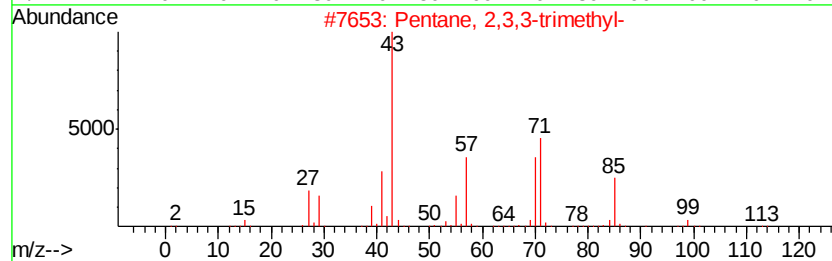
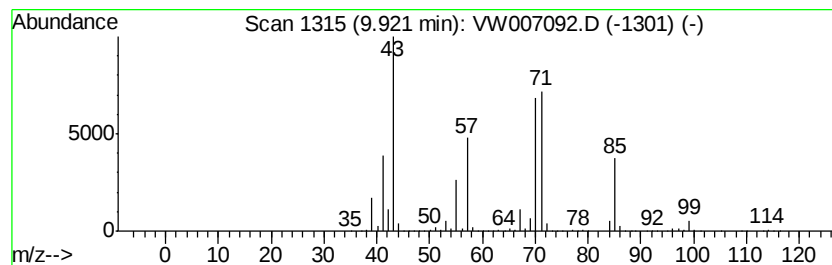
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Quant Title : SW846 8260

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

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Peak Number 5 Pentane, 2,3,3-trimethyl- Concentration Rank 2

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 9.92 | 140.28 ug/l | 83947900 | 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 | 78   |
| 2    |    | Pentane, 2,3,4-trimethyl-  | 114 | C8H18   | 000565-75-3 | 64   |
| 3    |    | Heptane, 4-methyl-         | 114 | C8H18   | 000589-53-7 | 64   |
| 4    |    | Pentane, 3-ethyl-2-methyl- | 114 | C8H18   | 000609-26-7 | 59   |
| 5    |    | Hexane, 3-methyl-          | 100 | C7H16   | 000589-34-4 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

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

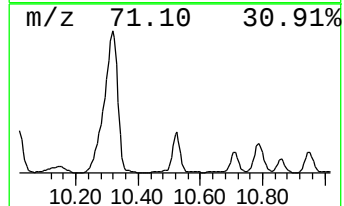
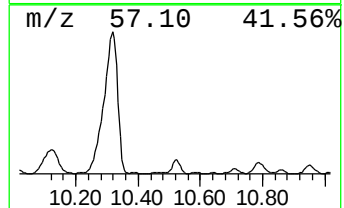
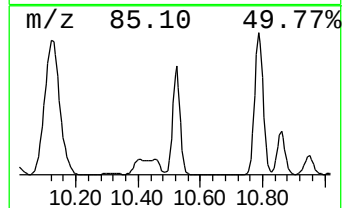
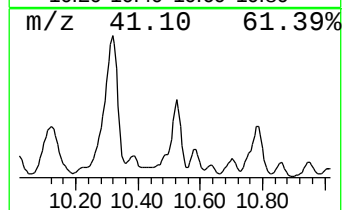
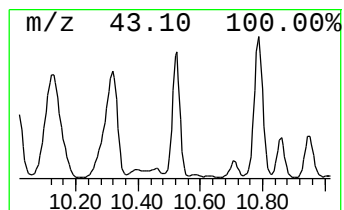
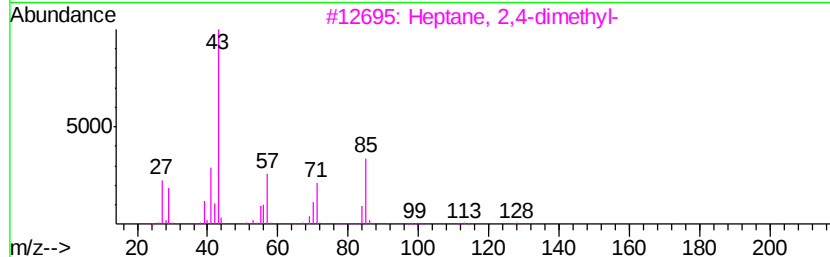
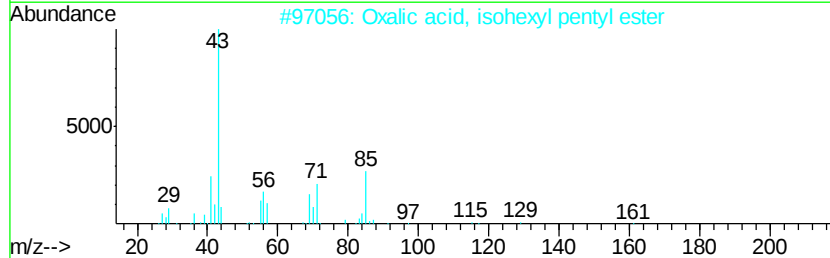
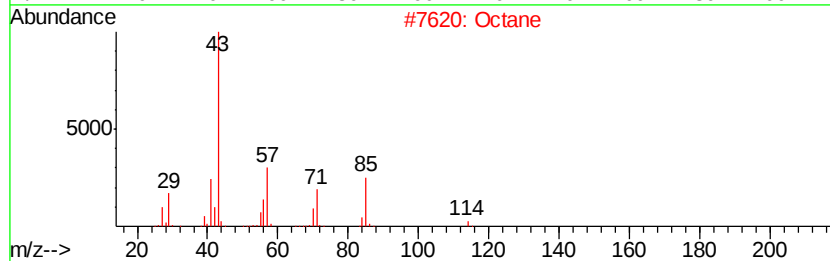
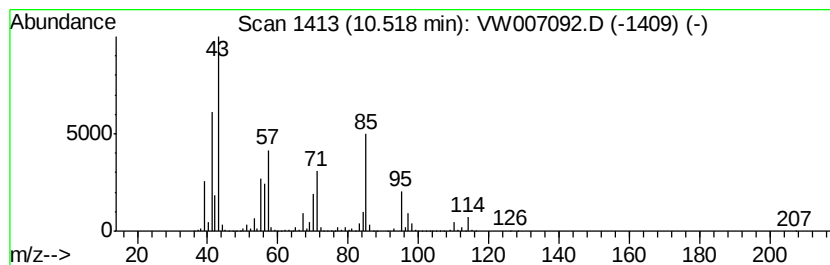
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octane Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 10.52 | 109.57 ug/l | 19394400 | Chlorobenzene-d5 | 11.64 |

| Hit# of | 5                                  | Tentative ID | MW  | MolForm     | CAS#         | Qual |
|---------|------------------------------------|--------------|-----|-------------|--------------|------|
| 1       | Octane                             |              | 114 | C8H18       | 000111-65-9  | 53   |
| 2       | Oxalic acid, isohexyl pentyl ester |              | 244 | C13H24O4    | 1000309-32-8 | 43   |
| 3       | Heptane, 2,4-dimethyl-             |              | 128 | C9H20       | 002213-23-2  | 32   |
| 4       | Silane, trichlorodocosyl-          |              | 442 | C22H45Cl3Si | 007325-84-0  | 27   |
| 5       | Hexane, 2-methyl-                  |              | 100 | C7H16       | 000591-76-4  | 27   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

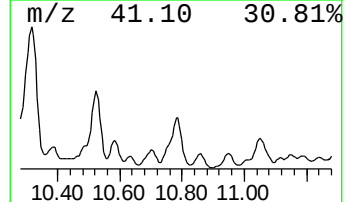
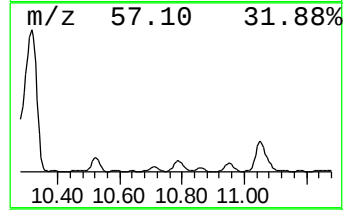
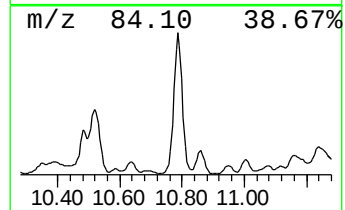
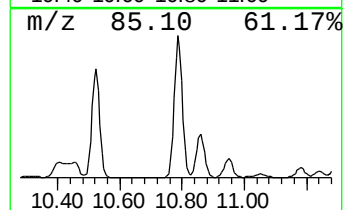
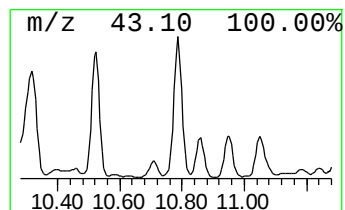
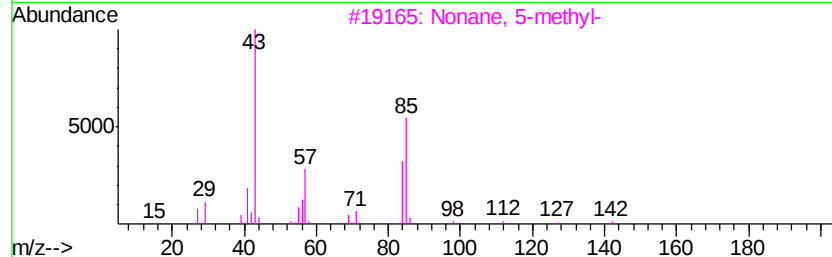
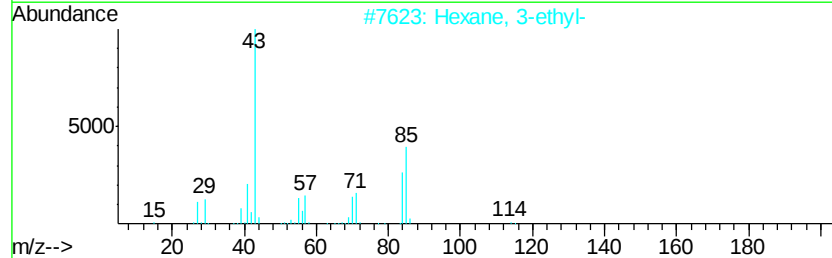
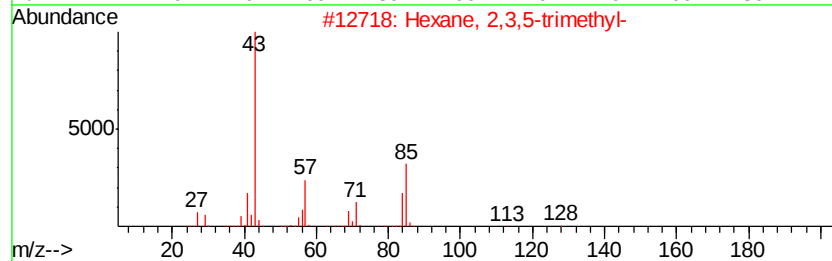
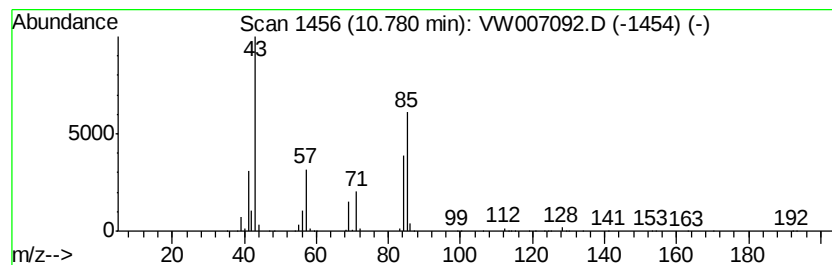
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MSVOA\_W  
ClientSampleId :  
AOC2-01R

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, 2,3,5-trimethyl- Concentration Rank 7

| R.T.    | EstConc                   | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------------|--------------|------------------|-------------|------|------|
| 10.78   | 80.19 ug/l                | 14195300     | Chlorobenzene-d5 | 11.64       |      |      |
| Hit# of | 5                         | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | Hexane, 2,3,5-trimethyl-  | 128          | C9H20            | 001069-53-0 | 83   |      |
| 2       | Hexane, 3-ethyl-          | 114          | C8H18            | 000619-99-8 | 78   |      |
| 3       | Nonane, 5-methyl-         | 142          | C10H22           | 015869-85-9 | 72   |      |
| 4       | Heptane, 2,3-dimethyl-    | 128          | C9H20            | 003074-71-3 | 72   |      |
| 5       | Heptane, 3,4,5-trimethyl- | 142          | C10H22           | 020278-89-1 | 64   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

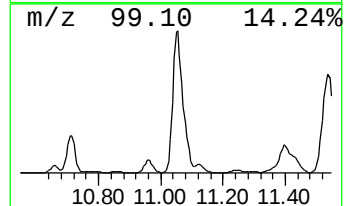
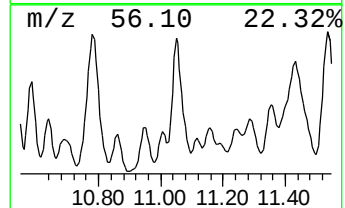
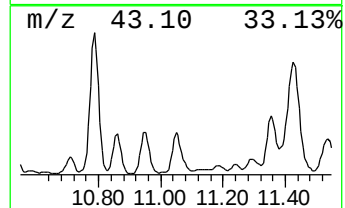
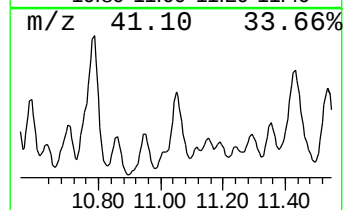
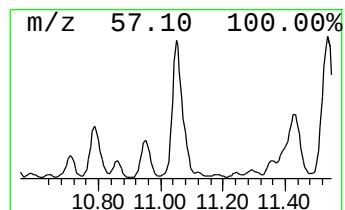
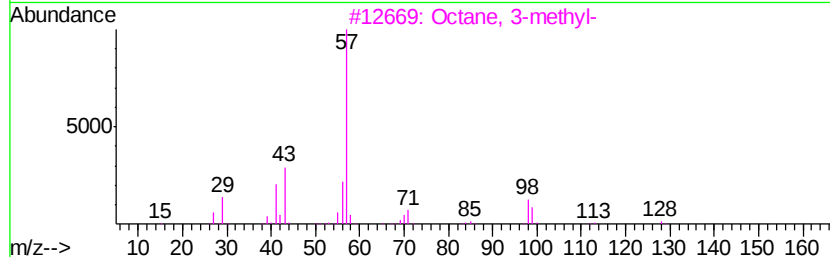
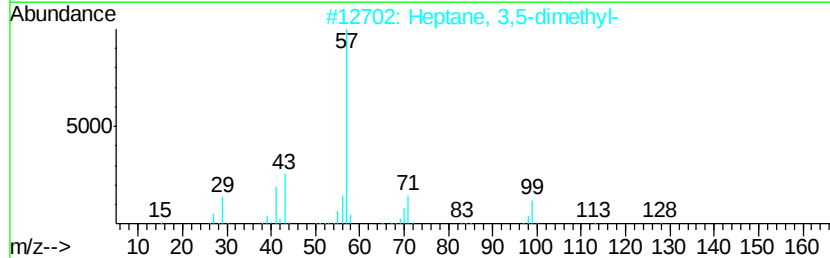
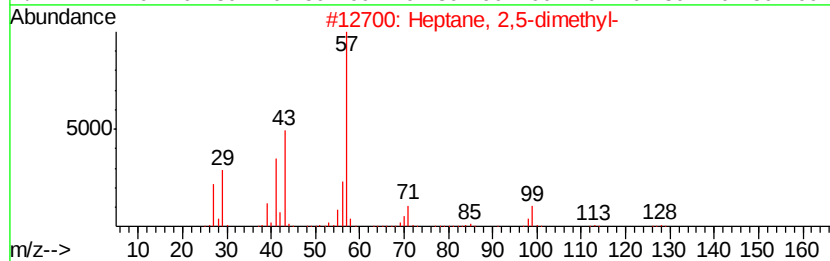
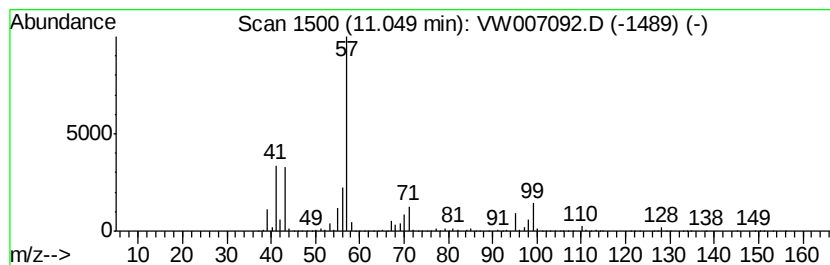
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MSVOA\_W  
ClientSampleId :  
AOC2-01R

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

| R.T.    | EstConc                   | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------------|--------------|------------------|-------------|------|------|
| 11.05   | 77.47 ug/l                | 13712400     | Chlorobenzene-d5 | 11.64       |      |      |
| Hit# of | 5                         | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | Heptane, 2,5-dimethyl-    | 128          | C9H20            | 002216-30-0 | 81   |      |
| 2       | Heptane, 3,5-dimethyl-    | 128          | C9H20            | 000926-82-9 | 81   |      |
| 3       | Octane, 3-methyl-         | 128          | C9H20            | 002216-33-3 | 70   |      |
| 4       | Decane, 2,5-dimethyl-     | 170          | C12H26           | 017312-50-4 | 43   |      |
| 5       | 2,2,4,4-Tetramethyloctane | 170          | C12H26           | 062183-79-3 | 38   |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

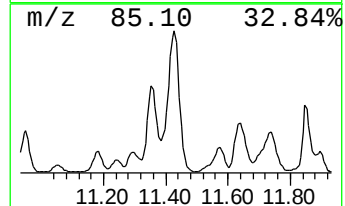
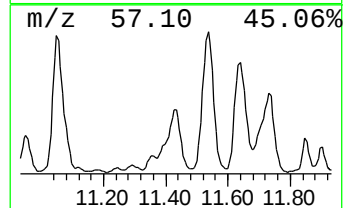
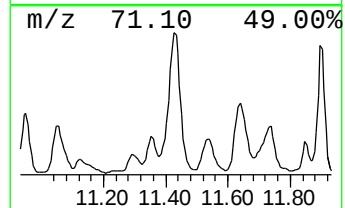
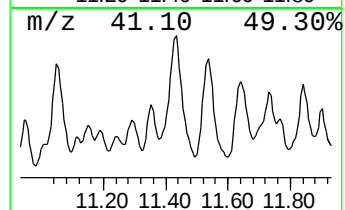
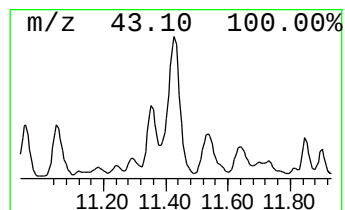
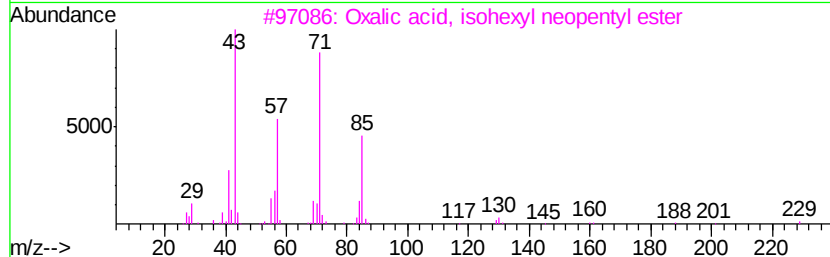
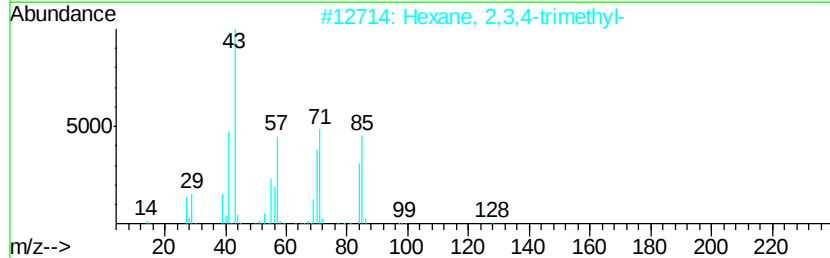
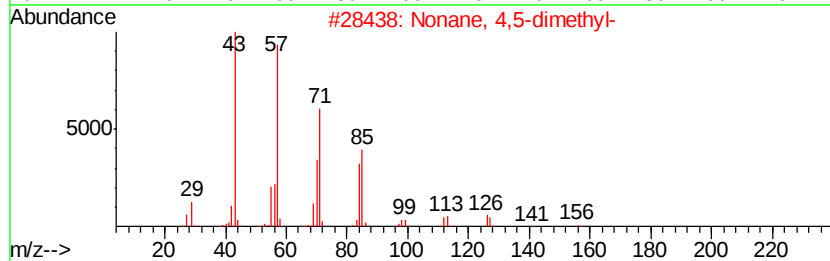
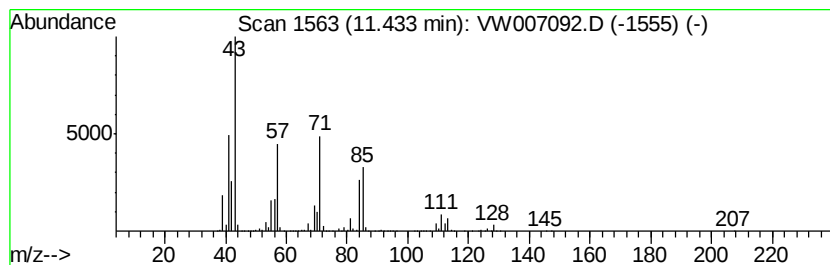
Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-01R

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 Nonane, 4,5-dimethyl- Concentration Rank 5

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|------------|-------------------------------------|------------------|----------|--------------|------|
| 11.43   | 92.44 ug/l | 16363300                            | Chlorobenzene-d5 | 11.64    |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |            | Nonane, 4,5-dimethyl-               | 156              | C11H24   | 017302-23-7  | 59   |
| 2       |            | Hexane, 2,3,4-trimethyl-            | 128              | C9H20    | 000921-47-1  | 52   |
| 3       |            | Oxalic acid, isohexyl neopentyl ... | 244              | C13H24O4 | 1000309-73-0 | 50   |
| 4       |            | Pentane, 3-ethyl-2-methyl-          | 114              | C8H18    | 000609-26-7  | 50   |
| 5       |            | Octane, 2-methyl-                   | 128              | C9H20    | 003221-61-2  | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

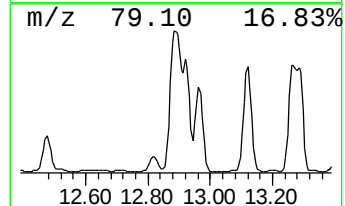
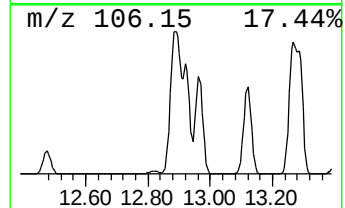
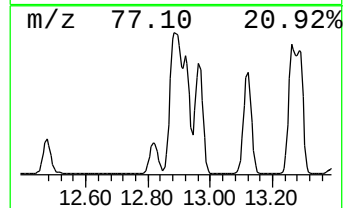
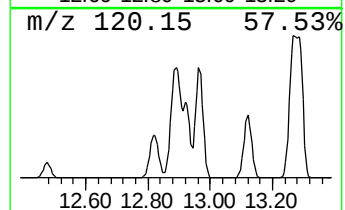
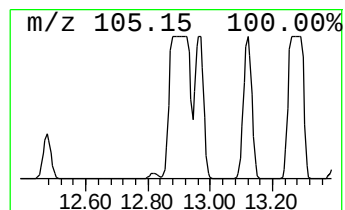
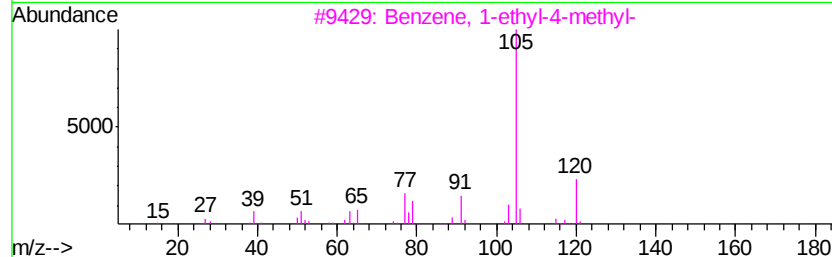
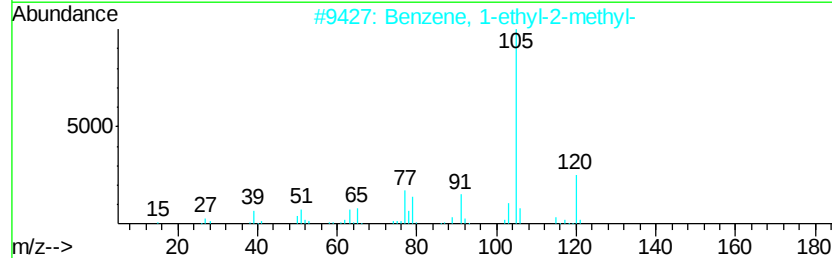
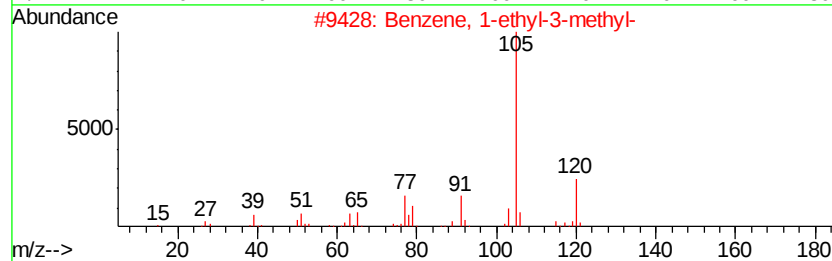
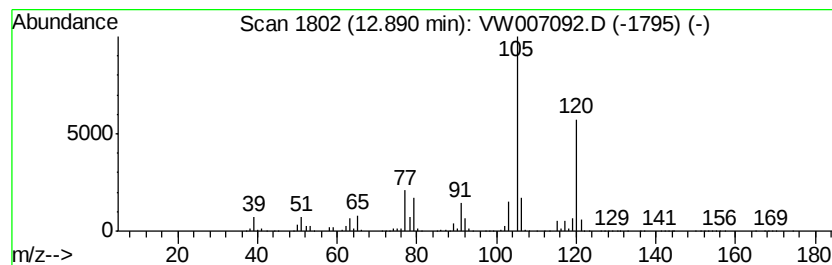
Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-01R

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-3-methyl- Concentration Rank 9

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 12.89   | 75.07 ug/l | 84962500                   | 1,4-Dichlorobenzene-d4 | 13.57          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1-ethyl-3-methyl- | 120 C9H12              | 000620-14-4 95 |
| 2       |            | Benzene, 1-ethyl-2-methyl- | 120 C9H12              | 000611-14-3 91 |
| 3       |            | Benzene, 1-ethyl-4-methyl- | 120 C9H12              | 000622-96-8 91 |
| 4       |            | Benzene, 1,2,4-trimethyl-  | 120 C9H12              | 000095-63-6 91 |
| 5       |            | Mesitylene                 | 120 C9H12              | 000108-67-8 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW112718\  
Data File : VW007092.D  
Acq On : 27 Nov 2018 17:11  
Operator : VAY/AP  
Sample : J5996-01  
Misc : 6.02G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
AOC2-01R

Quant Method : Z:\VOASRV\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-    | 3.01  | 118.9   | ug/l  | 82822200  | 1                     | 7.96  | 34828400 | 50.0 |
| 1-Butanol, 2,3-di... | 4.97  | 67.4    | ug/l  | 46918600  | 1                     | 7.96  | 34828400 | 50.0 |
| Pentane, 2,2,4-tr... | 8.52  | 190.5   | ug/l  | 113994000 | 2                     | 8.85  | 29921900 | 50.0 |
| Pentane, 2,3,4-tr... | 9.79  | 86.1    | ug/l  | 51517700  | 2                     | 8.85  | 29921900 | 50.0 |
| Pentane, 2,3,3-tr... | 9.92  | 140.3   | ug/l  | 83947900  | 2                     | 8.85  | 29921900 | 50.0 |
| Octane               | 10.52 | 109.6   | ug/l  | 19394400  | 3                     | 11.64 | 8850520  | 50.0 |
| Hexane, 2,3,5-tri... | 10.78 | 80.2    | ug/l  | 14195300  | 3                     | 11.64 | 8850520  | 50.0 |
| Heptane, 2,5-dime... | 11.05 | 77.5    | ug/l  | 13712400  | 3                     | 11.64 | 8850520  | 50.0 |
| Nonane, 4,5-dimet... | 11.43 | 92.4    | ug/l  | 16363300  | 3                     | 11.64 | 8850520  | 50.0 |
| Benzene, 1-ethyl-... | 12.89 | 75.1    | ug/l  | 84962500  | 4                     | 13.57 | 56592500 | 50.0 |