

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
 Data File : VW003935.D  
 Acq On : 14 Jul 2018 00:04  
 Operator : VA/AP  
 Sample : J3821-01  
 Misc : 5.76G/5ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-A

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\82W070718S.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         | 1.746       | 17            | 26          | 28           | rBV      | 9544           | 17207         | 1.60%           | 0.144%        |
| 2         | 1.801       | 28            | 35          | 56           | rVB      | 167710         | 471580        | 43.88%          | 3.952%        |
| 3         | 4.142       | 409           | 419         | 439          | rBV      | 23049          | 79590         | 7.41%           | 0.667%        |
| 4         | 4.672       | 496           | 506         | 520          | rBV      | 6894           | 22672         | 2.11%           | 0.190%        |
| 5         | 4.910       | 533           | 545         | 558          | rBV3     | 15030          | 54581         | 5.08%           | 0.457%        |
| 6         | 5.934       | 702           | 713         | 724          | rBV4     | 5869           | 17878         | 1.66%           | 0.150%        |
| 7         | 7.159       | 898           | 914         | 928          | rBV2     | 16882          | 54419         | 5.06%           | 0.456%        |
| 8         | 7.885       | 1023          | 1033        | 1038         | rBV      | 102856         | 242422        | 22.56%          | 2.031%        |
| 9         | 7.952       | 1038          | 1044        | 1053         | rVB      | 272450         | 595700        | 55.43%          | 4.992%        |
| 10        | 8.312       | 1090          | 1103        | 1112         | rBV      | 167786         | 367048        | 34.16%          | 3.076%        |
| 11        | 8.848       | 1182          | 1191        | 1202         | rBV      | 422448         | 845368        | 78.67%          | 7.084%        |
| 12        | 10.330      | 1425          | 1434        | 1441         | rBV      | 606826         | 1074592       | 100.00%         | 9.004%        |
| 13        | 10.390      | 1441          | 1444        | 1457         | rVB2     | 14991          | 26560         | 2.47%           | 0.223%        |
| 14        | 11.634      | 1641          | 1648        | 1656         | rBV      | 558365         | 934184        | 86.93%          | 7.828%        |
| 15        | 11.841      | 1676          | 1682        | 1687         | rBV2     | 12196          | 23863         | 2.22%           | 0.200%        |
| 16        | 12.171      | 1727          | 1736        | 1744         | rBV2     | 12233          | 24284         | 2.26%           | 0.203%        |
| 17        | 12.622      | 1804          | 1810        | 1820         | rBV      | 385779         | 647032        | 60.21%          | 5.422%        |
| 18        | 12.811      | 1834          | 1841        | 1845         | rBV      | 12455          | 22257         | 2.07%           | 0.186%        |
| 19        | 12.872      | 1846          | 1851        | 1855         | rBV      | 57799          | 99564         | 9.27%           | 0.834%        |
| 20        | 12.908      | 1855          | 1857        | 1859         | rVV      | 30570          | 38292         | 3.56%           | 0.321%        |
| 21        | 12.945      | 1859          | 1863        | 1869         | rVB2     | 74667          | 139394        | 12.97%          | 1.168%        |
| 22        | 13.110      | 1884          | 1890        | 1897         | rBV      | 62660          | 112148        | 10.44%          | 0.940%        |
| 23        | 13.170      | 1897          | 1900        | 1906         | rVB5     | 11860          | 18754         | 1.75%           | 0.157%        |
| 24        | 13.256      | 1908          | 1914        | 1920         | rBV      | 217332         | 342849        | 31.91%          | 2.873%        |
| 25        | 13.384      | 1932          | 1935        | 1940         | rVB2     | 14167          | 23814         | 2.22%           | 0.200%        |
| 26        | 13.451      | 1940          | 1946        | 1950         | rBV3     | 30562          | 54773         | 5.10%           | 0.459%        |
| 27        | 13.500      | 1950          | 1954        | 1959         | rVV3     | 19074          | 40317         | 3.75%           | 0.338%        |
| 28        | 13.567      | 1959          | 1965        | 1974         | rVV2     | 459408         | 922814        | 85.88%          | 7.733%        |
| 29        | 13.725      | 1986          | 1991        | 1993         | rBV2     | 28765          | 44648         | 4.15%           | 0.374%        |
| 30        | 13.762      | 1993          | 1997        | 2000         | rVV2     | 92844          | 156264        | 14.54%          | 1.309%        |
| 31        | 13.798      | 2000          | 2003        | 2012         | rVB3     | 104054         | 209082        | 19.46%          | 1.752%        |
| 32        | 13.884      | 2012          | 2017        | 2023         | rBV2     | 94353          | 149569        | 13.92%          | 1.253%        |
| 33        | 13.957      | 2024          | 2029        | 2034         | rVV      | 84535          | 128331        | 11.94%          | 1.075%        |
| 34        | 14.018      | 2035          | 2039        | 2041         | rVV      | 86133          | 127554        | 11.87%          | 1.069%        |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HR-05-071218-A

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 Sampling : 1  
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 Max Peaks: 100  
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.048 | 2041 | 2044 | 2049 | rVV  | 110264 | 170288 | 15.85% | 1.427% |
| 36 | 14.103 | 2049 | 2053 | 2058 | rVB  | 109141 | 164857 | 15.34% | 1.381% |
| 37 | 14.213 | 2066 | 2071 | 2076 | rVB2 | 88555  | 146319 | 13.62% | 1.226% |
| 38 | 14.268 | 2076 | 2080 | 2082 | rBV4 | 11650  | 18464  | 1.72%  | 0.155% |
| 39 | 14.347 | 2088 | 2093 | 2098 | rBV3 | 66424  | 118150 | 10.99% | 0.990% |
| 40 | 14.402 | 2098 | 2102 | 2103 | rVV3 | 30095  | 41612  | 3.87%  | 0.349% |
| 41 | 14.432 | 2103 | 2107 | 2109 | rVV  | 63818  | 99864  | 9.29%  | 0.837% |
| 42 | 14.469 | 2109 | 2113 | 2116 | rVB  | 114244 | 155134 | 14.44% | 1.300% |
| 43 | 14.512 | 2116 | 2120 | 2123 | rVB  | 49381  | 58735  | 5.47%  | 0.492% |
| 44 | 14.548 | 2123 | 2126 | 2134 | rVB2 | 35603  | 67202  | 6.25%  | 0.563% |
| 45 | 14.652 | 2134 | 2143 | 2146 | rBV3 | 43805  | 101050 | 9.40%  | 0.847% |
| 46 | 14.695 | 2146 | 2150 | 2153 | rBV  | 61846  | 101170 | 9.41%  | 0.848% |
| 47 | 14.737 | 2153 | 2157 | 2162 | rVB3 | 127977 | 211617 | 19.69% | 1.773% |
| 48 | 14.804 | 2162 | 2168 | 2176 | rBV3 | 236573 | 582130 | 54.17% | 4.878% |
| 49 | 14.969 | 2190 | 2195 | 2202 | rVB  | 140148 | 226331 | 21.06% | 1.897% |
| 50 | 15.036 | 2203 | 2206 | 2208 | rBV4 | 10782  | 15452  | 1.44%  | 0.129% |
| 51 | 15.079 | 2208 | 2213 | 2216 | rBV3 | 64357  | 112593 | 10.48% | 0.943% |
| 52 | 15.188 | 2225 | 2231 | 2239 | rVB4 | 72785  | 165391 | 15.39% | 1.386% |
| 53 | 15.335 | 2250 | 2255 | 2259 | rBV5 | 33262  | 68265  | 6.35%  | 0.572% |
| 54 | 15.371 | 2259 | 2261 | 2266 | rVB  | 30975  | 46371  | 4.32%  | 0.389% |
| 55 | 15.432 | 2266 | 2271 | 2276 | rBV2 | 78575  | 155181 | 14.44% | 1.300% |
| 56 | 15.487 | 2276 | 2280 | 2281 | rBV2 | 23656  | 31667  | 2.95%  | 0.265% |
| 57 | 15.566 | 2290 | 2293 | 2302 | rVB3 | 51955  | 99947  | 9.30%  | 0.837% |
| 58 | 15.670 | 2302 | 2310 | 2318 | rBV4 | 42027  | 112551 | 10.47% | 0.943% |
| 59 | 15.749 | 2319 | 2323 | 2327 | rVB6 | 10366  | 17513  | 1.63%  | 0.147% |
| 60 | 15.835 | 2335 | 2337 | 2339 | rBV3 | 10927  | 11581  | 1.08%  | 0.097% |
| 61 | 15.877 | 2339 | 2344 | 2353 | rVB3 | 114538 | 220420 | 20.51% | 1.847% |
| 62 | 15.963 | 2354 | 2358 | 2364 | rVB5 | 15422  | 26439  | 2.46%  | 0.222% |
| 63 | 16.042 | 2364 | 2371 | 2377 | rBV4 | 20411  | 50759  | 4.72%  | 0.425% |
| 64 | 16.194 | 2386 | 2396 | 2403 | rBV2 | 78862  | 189562 | 17.64% | 1.588% |
| 65 | 16.310 | 2411 | 2415 | 2419 | rVB3 | 7408   | 11105  | 1.03%  | 0.093% |
| 66 | 16.395 | 2422 | 2429 | 2434 | rVV3 | 41382  | 88961  | 8.28%  | 0.745% |
| 67 | 16.456 | 2434 | 2439 | 2445 | rBV4 | 27933  | 56665  | 5.27%  | 0.475% |
| 68 | 16.664 | 2466 | 2473 | 2478 | rBV5 | 23751  | 61340  | 5.71%  | 0.514% |

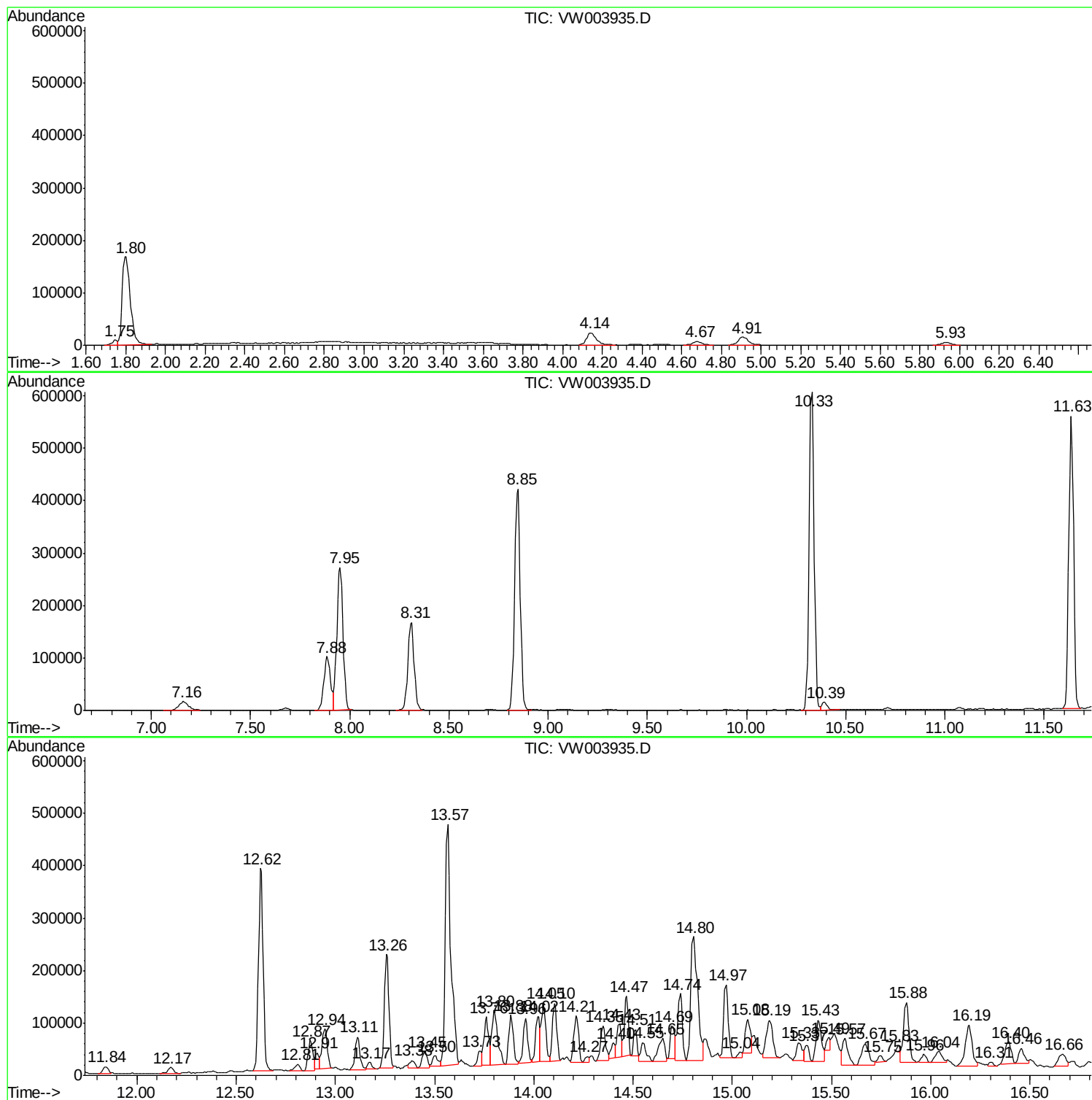
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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

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



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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

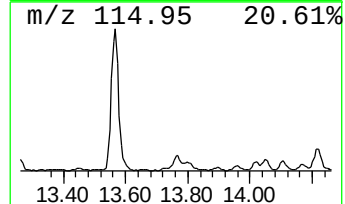
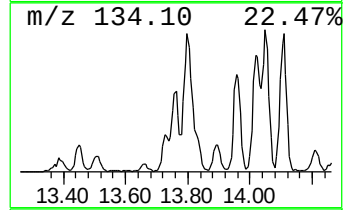
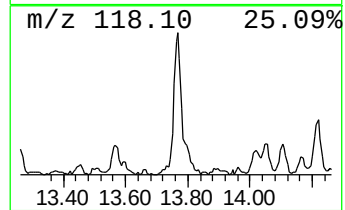
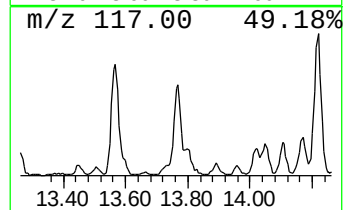
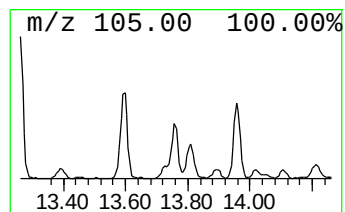
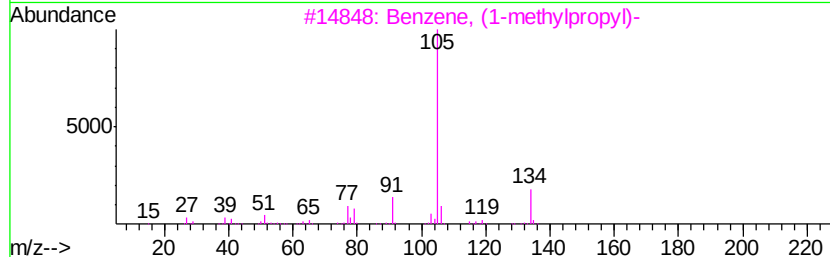
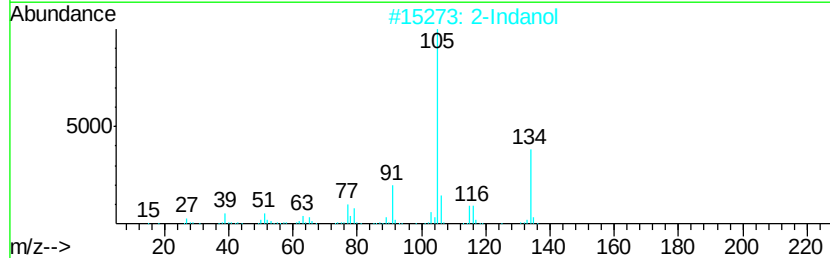
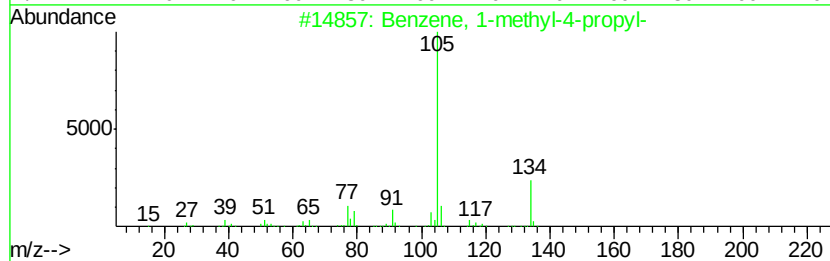
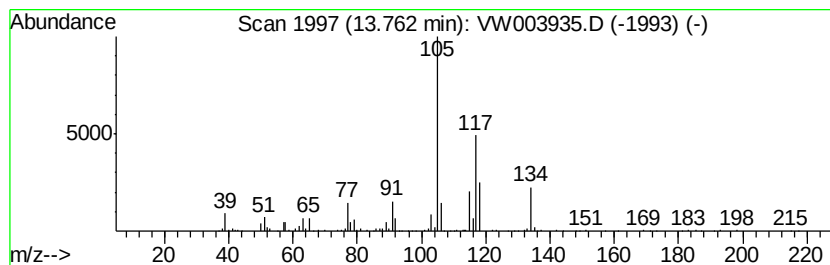
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

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

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Peak Number 2 unknown13.76 Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.76 | 8.47 ug/l | 156264 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 38   |
| 2    |    |   | 2-Indanol                   | 134 | C9H10O  | 004254-29-9 | 35   |
| 3    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 35   |
| 4    |    |   | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 30   |
| 5    |    |   | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 30   |



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Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

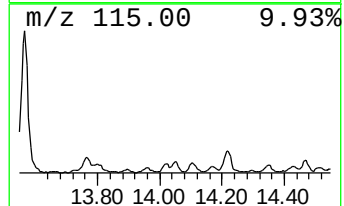
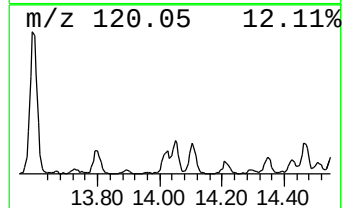
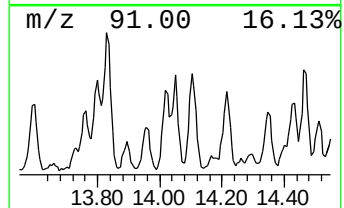
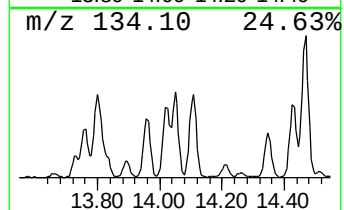
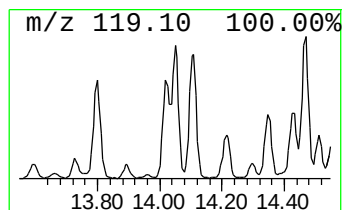
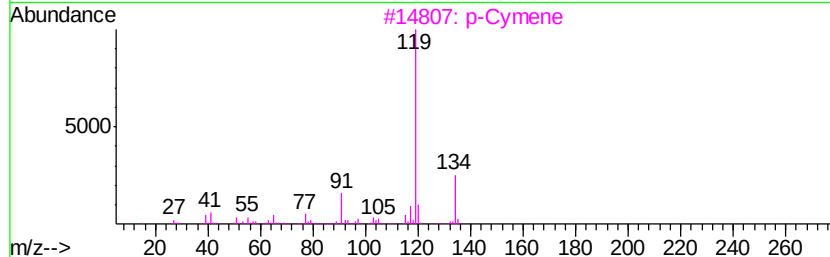
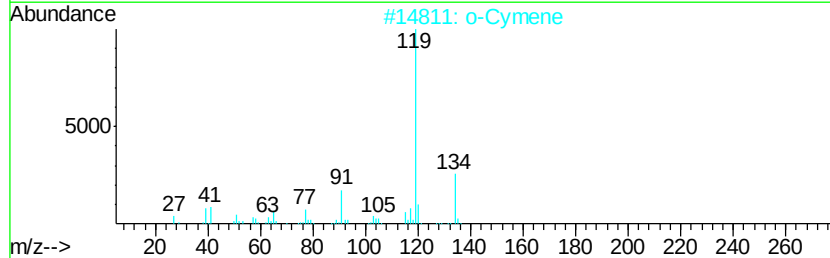
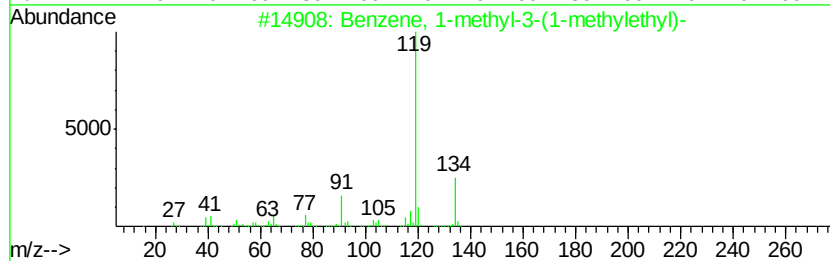
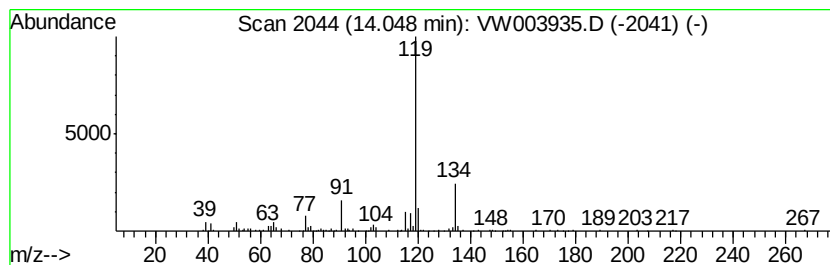
Instrument :  
MSVOA\_W  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

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

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Peak Number 3 Benzene, 1-methyl-3-(1-meth... Concentration Rank 7

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.05   | 9.23 ug/l                           | 170288       | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14   | 000535-77-3            | 91        |
| 2       | o-Cymene                            | 134 C10H14   | 000527-84-4            | 91        |
| 3       | p-Cymene                            | 134 C10H14   | 000099-87-6            | 91        |
| 4       | Benzene, 1,2,4,5-tetramethyl-       | 134 C10H14   | 000095-93-2            | 91        |
| 5       | Benzene, 1,2,3,5-tetramethyl-       | 134 C10H14   | 000527-53-7            | 91        |



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Quant Title : SW846 8260

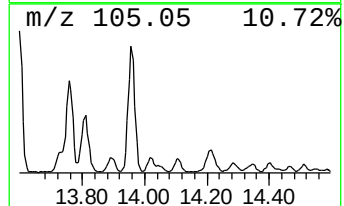
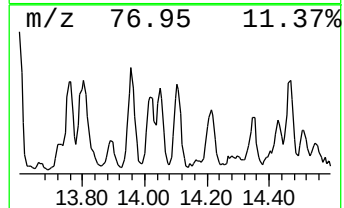
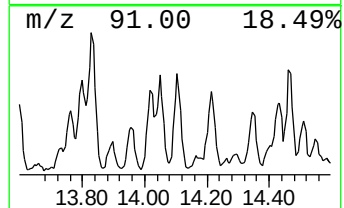
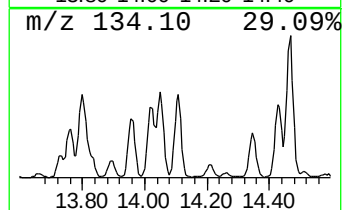
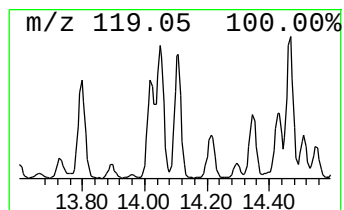
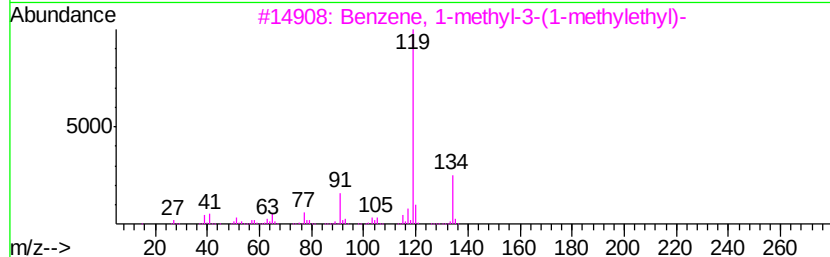
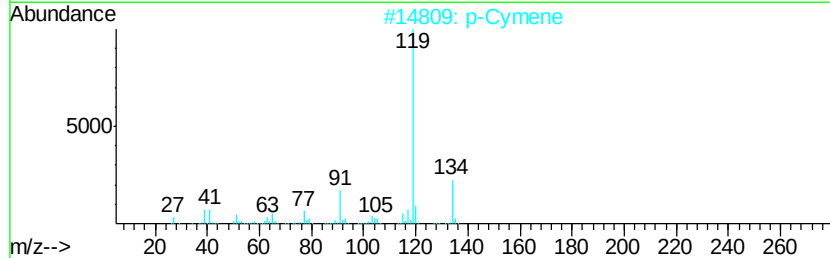
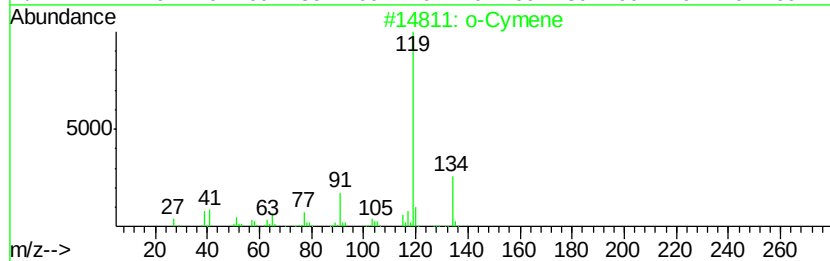
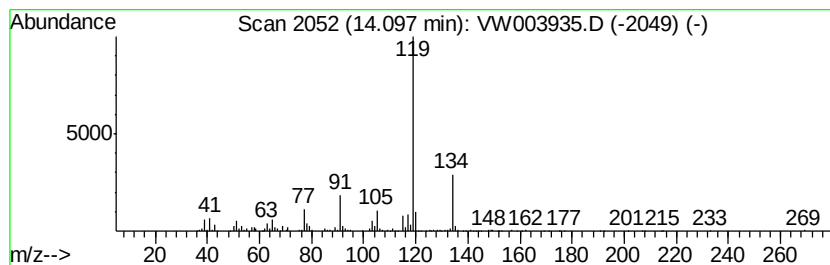
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 o-Cymene Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.10 | 8.93 ug/l | 164857 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 95   |
| 3    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 94   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 94   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-       | 134 | C10H14  | 000933-98-2 | 94   |



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Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

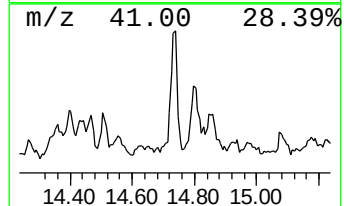
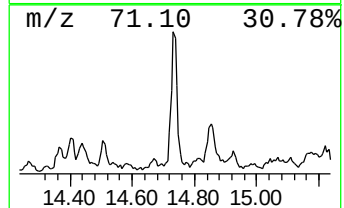
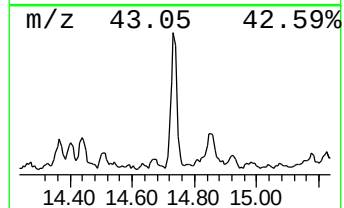
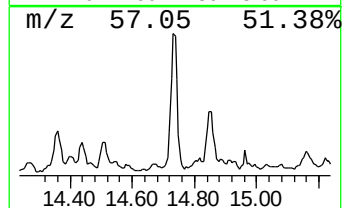
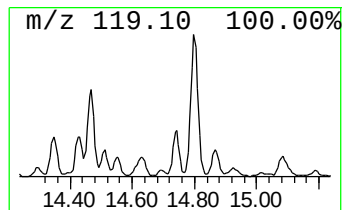
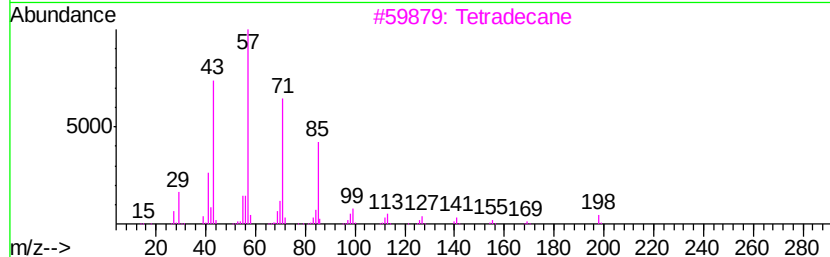
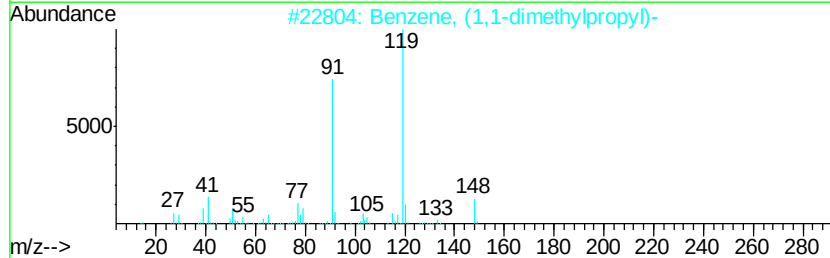
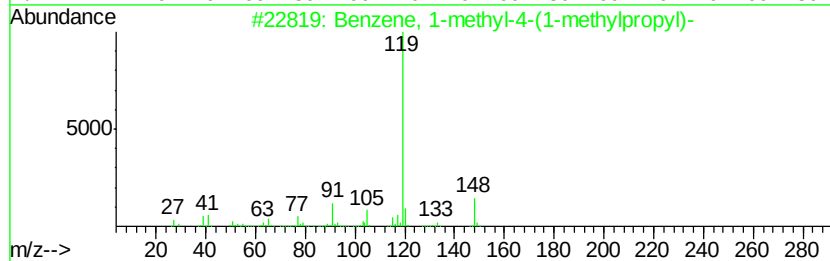
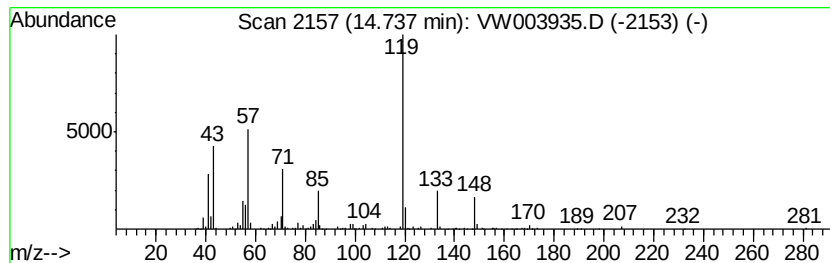
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 unknown14.74 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.74 | 11.47 ug/l | 211617 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16    | 001595-16-0  | 46   |
| 2       |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16    | 002049-95-8  | 43   |
| 3       |   | Tetradecane                         | 198 | C14H30    | 000629-59-4  | 35   |
| 4       |   | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 22   |
| 5       |   | Sulfurous acid, hexyl octyl ester   | 278 | C14H30O3S | 1000309-13-0 | 22   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

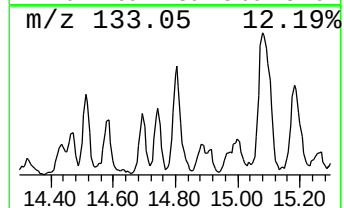
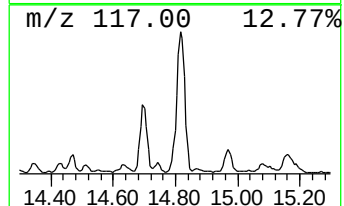
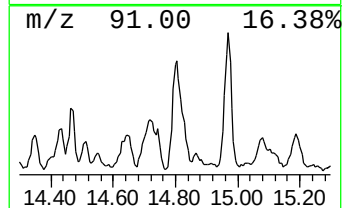
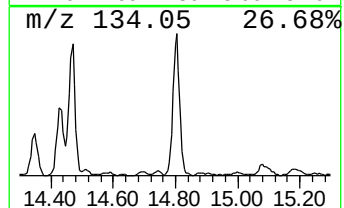
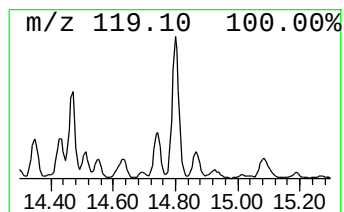
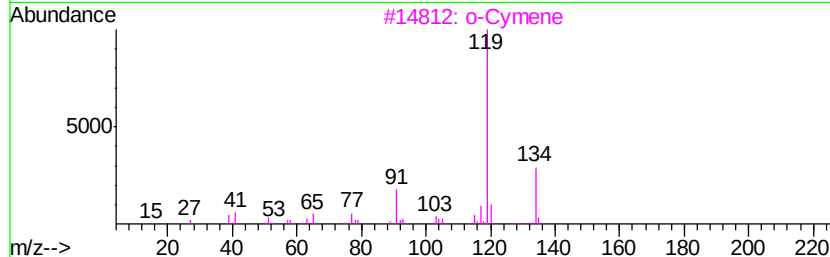
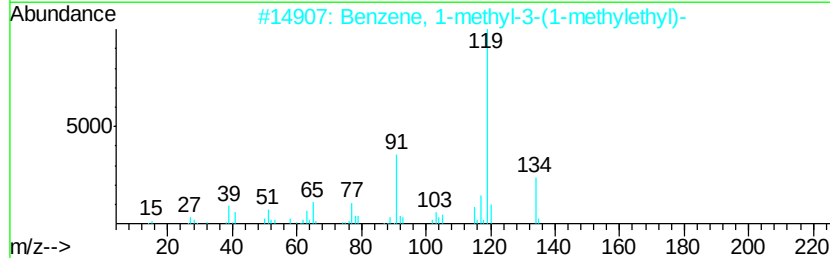
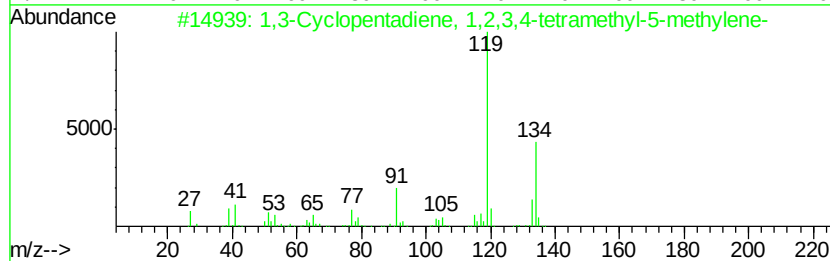
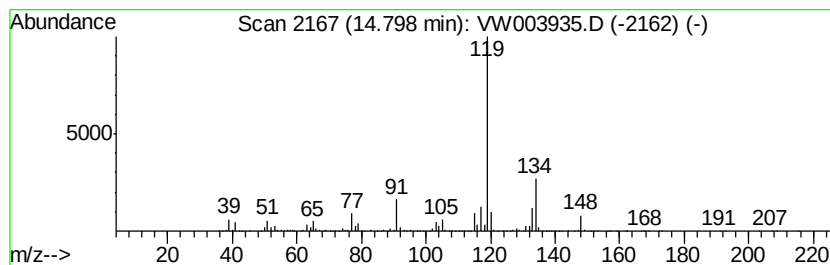
Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 2

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.80   | 31.54 ug/l                          | 582130       | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 C10H14   | 076089-59-3            | 81        |
| 2       | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14   | 000535-77-3            | 76        |
| 3       | o-Cymene                            | 134 C10H14   | 000527-84-4            | 76        |
| 4       | Benzene, 2-ethyl-1,3-dimethyl-      | 134 C10H14   | 002870-04-4            | 76        |
| 5       | Benzene, 1-ethyl-2,3-dimethyl-      | 134 C10H14   | 000933-98-2            | 76        |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

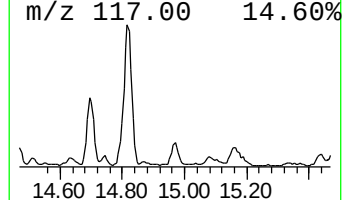
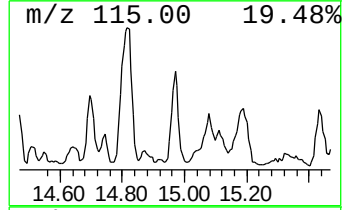
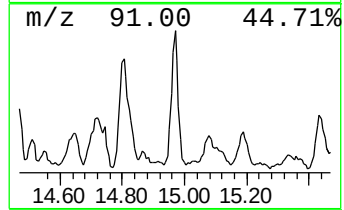
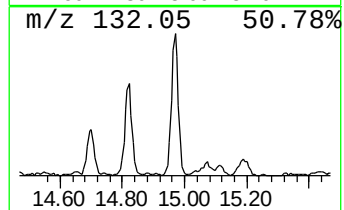
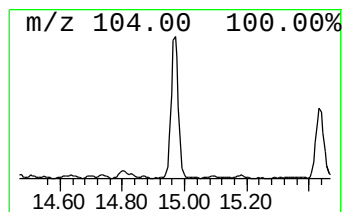
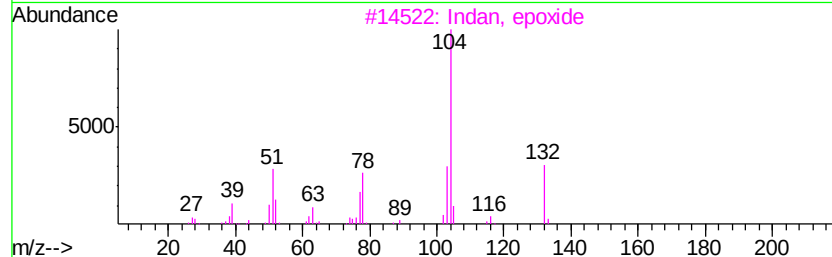
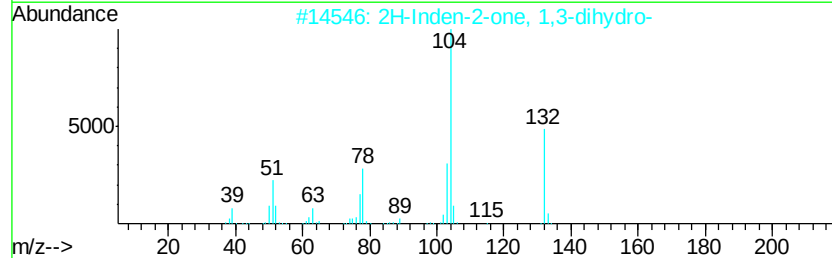
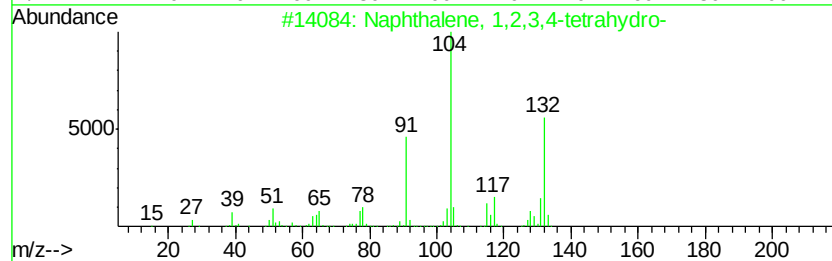
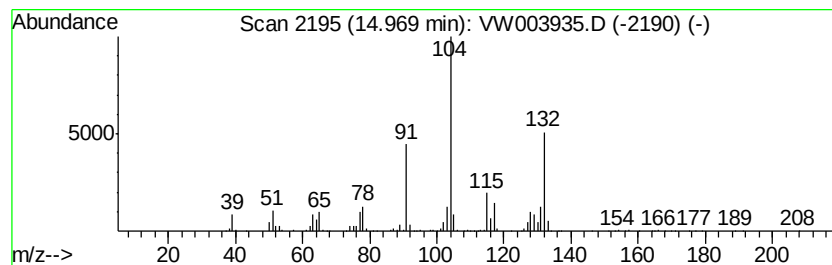
Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 3

| R.T.      | EstConc                          | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------------|--------|------------------------|-------------|------|
| 14.97     | 12.26 ug/l                       | 226331 | 1,4-Dichlorobenzene-d4 | 13.57       |      |
| Hit# of 5 | Tentative ID                     | MW     | MolForm                | CAS#        | Qual |
| 1         | Naphthalene, 1,2,3,4-tetrahydro- | 132    | C10H12                 | 000119-64-2 | 96   |
| 2         | 2H-Inden-2-one, 1,3-dihydro-     | 132    | C9H8O                  | 000615-13-4 | 58   |
| 3         | Indan, epoxide                   | 132    | C9H8O                  | 000768-22-9 | 53   |
| 4         | Phensuximide                     | 189    | C11H11NO2              | 000086-34-0 | 41   |
| 5         | Naphthalene, 1,4,5,8-tetrahydro- | 132    | C10H12                 | 000493-04-9 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

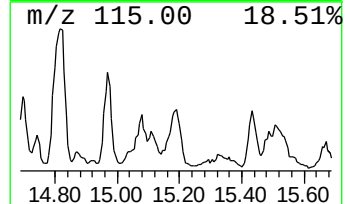
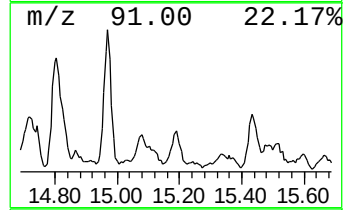
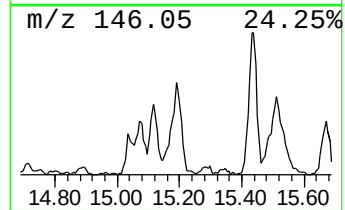
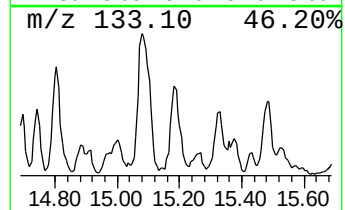
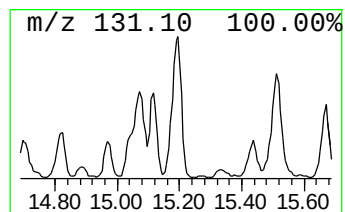
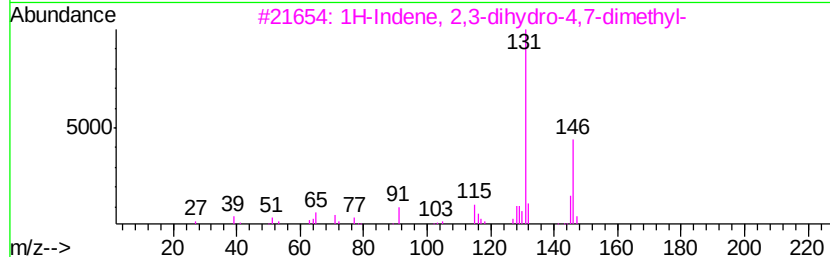
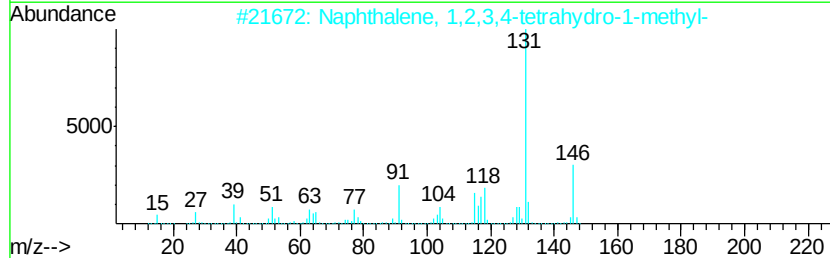
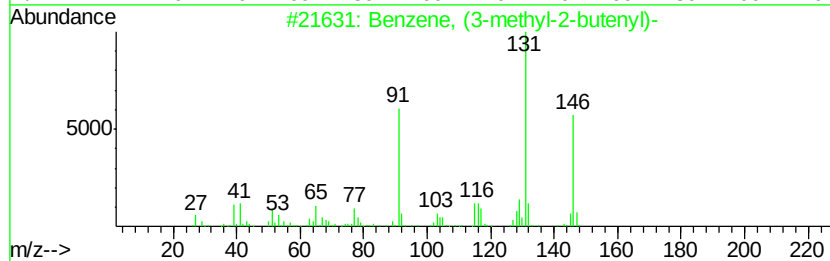
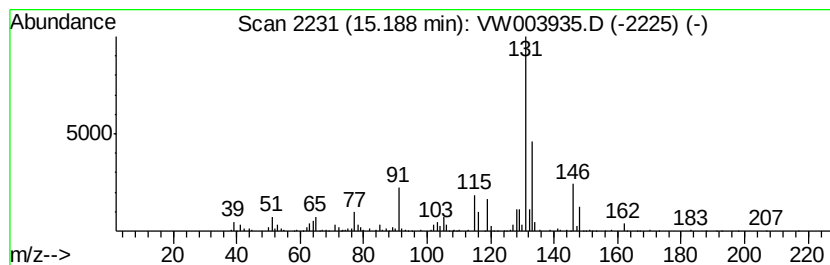
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, (3-methyl-2-butenyl)- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.19 | 8.96 ug/l | 165391 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 64   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 64   |
| 3    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 64   |
| 4    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 64   |
| 5    |    | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14  | 017059-48-2 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

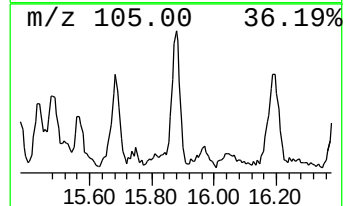
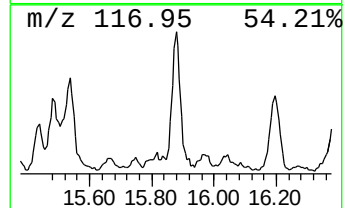
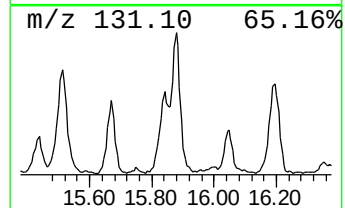
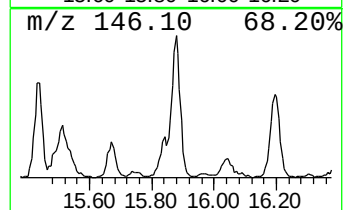
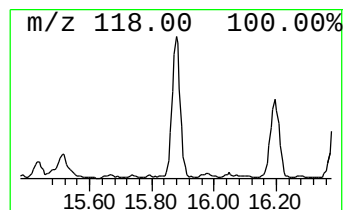
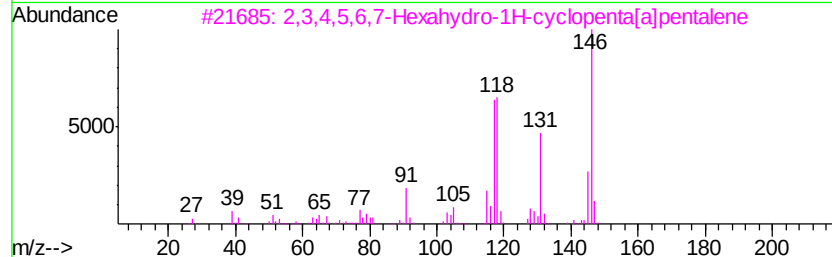
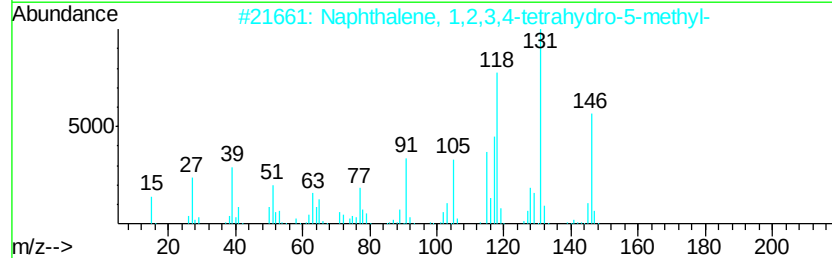
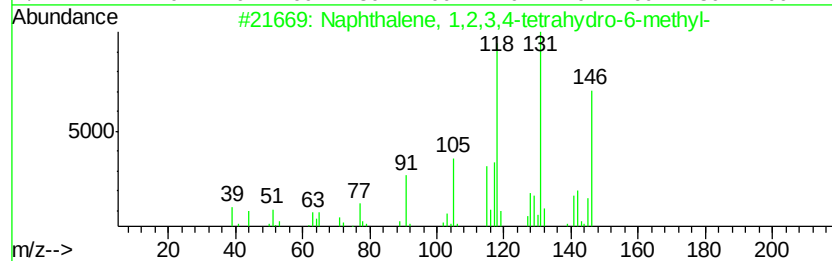
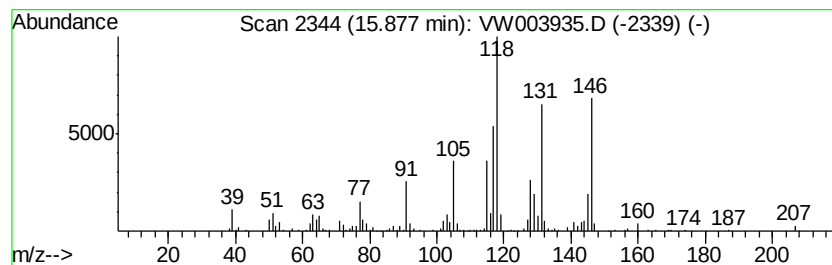
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.88 | 11.94 ug/l | 220420 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9  | 89   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5  | 74   |
| 3    |    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14  | 1000189-31-0 | 53   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2  | 43   |
| 5    |    | 1H-Tetrazole, 5-phenyl-             | 146 | C7H6N4  | 018039-42-4  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260

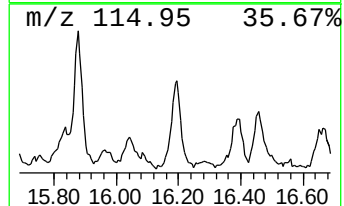
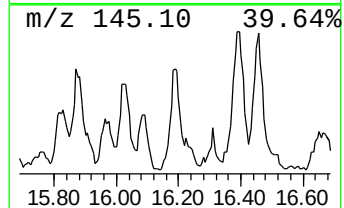
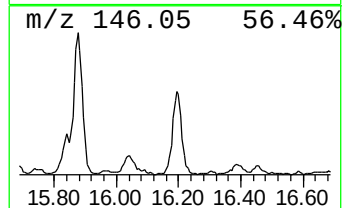
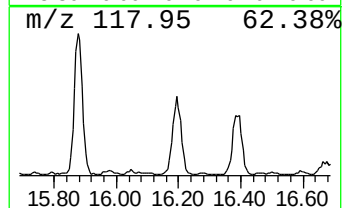
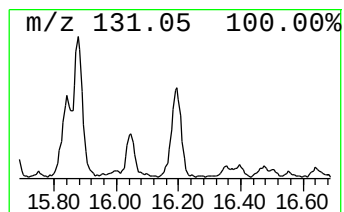
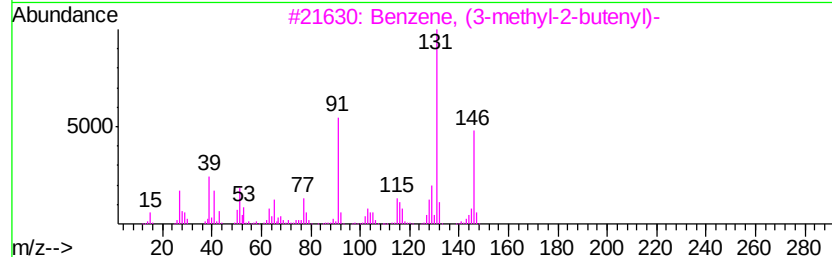
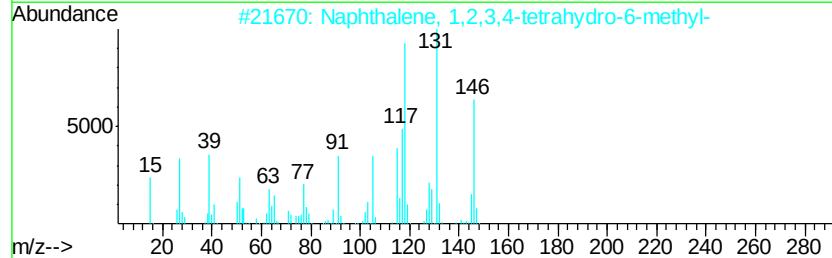
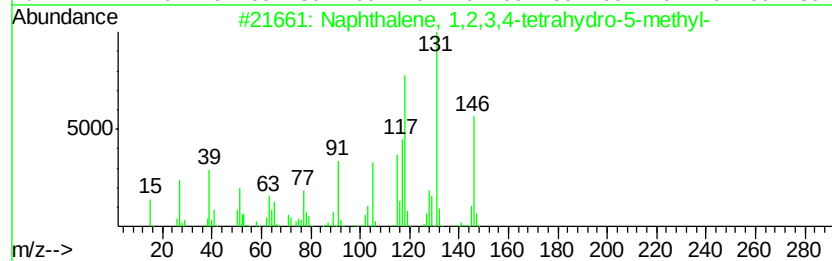
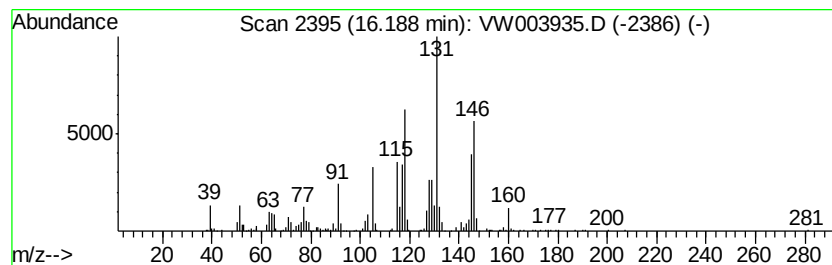
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.19 | 10.27 ug/l | 189562 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 90   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 76   |
| 3    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 64   |
| 4    |    | 2-Propyn-1-ol, 3-(4-methylphenyl)-  | 146 | C10H10O | 016017-24-6 | 64   |
| 5    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 62   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW071318\  
Data File : VW003935.D  
Acq On : 14 Jul 2018 00:04  
Operator : VA/AP  
Sample : J3821-01  
Misc : 5.76G/5ML/MSVOA\_W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
HR-05-071218-A

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.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 |
| unknown13.76         | 13.76 | 8.5     | ug/l  | 156264   | 4                     | 13.57 | 922814 | 50.0 |
| Benzene, 1-methyl... | 14.05 | 9.2     | ug/l  | 170288   | 4                     | 13.57 | 922814 | 50.0 |
| o-Cymene             | 14.10 | 8.9     | ug/l  | 164857   | 4                     | 13.57 | 922814 | 50.0 |
| unknown14.74         | 14.74 | 11.5    | ug/l  | 211617   | 4                     | 13.57 | 922814 | 50.0 |
| 1,3-Cyclopentadie... | 14.80 | 31.5    | ug/l  | 582130   | 4                     | 13.57 | 922814 | 50.0 |
| Naphthalene, 1,2,... | 14.97 | 12.3    | ug/l  | 226331   | 4                     | 13.57 | 922814 | 50.0 |
| Benzene, (3-methy... | 15.19 | 9.0     | ug/l  | 165391   | 4                     | 13.57 | 922814 | 50.0 |
| Naphthalene, 1,2,... | 15.88 | 11.9    | ug/l  | 220420   | 4                     | 13.57 | 922814 | 50.0 |
| Naphthalene, 1,2,... | 16.19 | 10.3    | ug/l  | 189562   | 4                     | 13.57 | 922814 | 50.0 |