

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
 Data File : BG019350.D  
 Acq On : 25 Oct 2015 00:10  
 Operator : UM/NP  
 Sample : G4075-06  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JG9K6

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG102315.M  
 Title : SVOA CALIBRATION

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         | 3.209       | 59            | 63          | 71           | rVV2     | 31311          | 60628         | 1.41%           | 0.169%        |
| 2         | 3.291       | 71            | 77          | 84           | rVV      | 114570         | 169919        | 3.97%           | 0.473%        |
| 3         | 3.567       | 120           | 124         | 128          | rBV2     | 9680           | 13691         | 0.32%           | 0.038%        |
| 4         | 3.849       | 169           | 172         | 177          | rBV4     | 3967           | 5716          | 0.13%           | 0.016%        |
| 5         | 5.301       | 414           | 419         | 420          | rBV3     | 4022           | 5425          | 0.13%           | 0.015%        |
| 6         | 5.524       | 451           | 457         | 464          | rVV3     | 3475           | 7771          | 0.18%           | 0.022%        |
| 7         | 5.624       | 466           | 474         | 477          | rVV5     | 2716           | 5036          | 0.12%           | 0.014%        |
| 8         | 7.198       | 737           | 742         | 750          | rVV4     | 5248           | 12013         | 0.28%           | 0.033%        |
| 9         | 7.380       | 766           | 773         | 784          | rVB      | 283803         | 500201        | 11.67%          | 1.392%        |
| 10        | 7.557       | 795           | 803         | 813          | rVB      | 194929         | 314665        | 7.34%           | 0.876%        |
| 11        | 7.768       | 829           | 839         | 846          | rVV      | 269022         | 459060        | 10.71%          | 1.277%        |
| 12        | 8.244       | 913           | 920         | 927          | rBV      | 368635         | 630327        | 14.71%          | 1.754%        |
| 13        | 8.473       | 955           | 959         | 964          | rVB3     | 3154           | 4883          | 0.11%           | 0.014%        |
| 14        | 8.785       | 1008          | 1012        | 1017         | rBV2     | 2789           | 5690          | 0.13%           | 0.016%        |
| 15        | 8.943       | 1032          | 1039        | 1047         | rVB      | 353207         | 613115        | 14.31%          | 1.706%        |
| 16        | 9.413       | 1111          | 1119        | 1127         | rBV      | 272211         | 482714        | 11.27%          | 1.343%        |
| 17        | 9.507       | 1130          | 1135        | 1139         | rVV4     | 15941          | 23318         | 0.54%           | 0.065%        |
| 18        | 9.819       | 1181          | 1188        | 1192         | rVB4     | 4933           | 8654          | 0.20%           | 0.024%        |
| 19        | 10.136      | 1234          | 1242        | 1251         | rVB2     | 247792         | 460624        | 10.75%          | 1.282%        |
| 20        | 10.353      | 1277          | 1279        | 1285         | rVB2     | 4362           | 7282          | 0.17%           | 0.020%        |
| 21        | 10.682      | 1327          | 1335        | 1344         | rVB      | 388837         | 696876        | 16.26%          | 1.939%        |
| 22        | 10.829      | 1355          | 1360        | 1368         | rBV4     | 4925           | 11203         | 0.26%           | 0.031%        |
| 23        | 11.070      | 1391          | 1401        | 1411         | rBV      | 513916         | 929913        | 21.70%          | 2.587%        |
| 24        | 11.194      | 1415          | 1422        | 1431         | rBV      | 231688         | 426647        | 9.96%           | 1.187%        |
| 25        | 11.699      | 1504          | 1508        | 1510         | rBV3     | 3997           | 4555          | 0.11%           | 0.013%        |
| 26        | 11.828      | 1523          | 1530        | 1533         | rBV4     | 6401           | 12536         | 0.29%           | 0.035%        |
| 27        | 12.298      | 1606          | 1610        | 1613         | rBV4     | 3655           | 4821          | 0.11%           | 0.013%        |
| 28        | 12.527      | 1646          | 1649        | 1653         | rBV6     | 3848           | 5036          | 0.12%           | 0.014%        |
| 29        | 12.633      | 1660          | 1667        | 1670         | rBV6     | 7991           | 14044         | 0.33%           | 0.039%        |
| 30        | 13.103      | 1744          | 1747        | 1748         | rBV2     | 4273           | 5405          | 0.13%           | 0.015%        |
| 31        | 13.121      | 1748          | 1750        | 1755         | rVB5     | 5571           | 6533          | 0.15%           | 0.018%        |
| 32        | 13.162      | 1755          | 1757        | 1759         | rBV3     | 4754           | 4457          | 0.10%           | 0.012%        |
| 33        | 13.227      | 1763          | 1768        | 1774         | rVV3     | 11941          | 20361         | 0.48%           | 0.057%        |
| 34        | 13.473      | 1806          | 1810        | 1814         | rBV3     | 12613          | 19905         | 0.46%           | 0.055%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.673 | 1841 | 1844 | 1849 | rVB6 | 3671    | 5904    | 0.14%  | 0.016% |
| 36 | 13.938 | 1885 | 1889 | 1890 | rBV3 | 3804    | 4703    | 0.11%  | 0.013% |
| 37 | 14.043 | 1900 | 1907 | 1908 | rBV6 | 5148    | 8219    | 0.19%  | 0.023% |
| 38 | 14.261 | 1936 | 1944 | 1948 | rBV  | 679797  | 997234  | 23.27% | 2.775% |
| 39 | 14.302 | 1948 | 1951 | 1961 | rVB  | 246709  | 361843  | 8.44%  | 1.007% |
| 40 | 14.378 | 1961 | 1964 | 1967 | rBV5 | 4537    | 5481    | 0.13%  | 0.015% |
| 41 | 14.490 | 1979 | 1983 | 1985 | rVB5 | 4504    | 5864    | 0.14%  | 0.016% |
| 42 | 14.560 | 1988 | 1995 | 2003 | rBV  | 705686  | 1111501 | 25.94% | 3.093% |
| 43 | 14.737 | 2022 | 2025 | 2032 | rVB7 | 12564   | 22067   | 0.51%  | 0.061% |
| 44 | 14.866 | 2039 | 2047 | 2053 | rBV2 | 844745  | 1398621 | 32.64% | 3.892% |
| 45 | 14.930 | 2055 | 2058 | 2062 | rVB6 | 9664    | 13976   | 0.33%  | 0.039% |
| 46 | 15.036 | 2068 | 2076 | 2084 | rBV  | 332034  | 527714  | 12.32% | 1.468% |
| 47 | 15.189 | 2098 | 2102 | 2107 | rVV5 | 16902   | 25708   | 0.60%  | 0.072% |
| 48 | 15.236 | 2107 | 2110 | 2116 | rVV5 | 11175   | 21440   | 0.50%  | 0.060% |
| 49 | 15.359 | 2125 | 2131 | 2132 | rVB6 | 7758    | 10867   | 0.25%  | 0.030% |
| 50 | 15.371 | 2132 | 2133 | 2137 | rBV4 | 4334    | 4293    | 0.10%  | 0.012% |
| 51 | 15.483 | 2149 | 2152 | 2154 | rBV4 | 5131    | 5999    | 0.14%  | 0.017% |
| 52 | 15.641 | 2174 | 2179 | 2182 | rBV3 | 15699   | 25805   | 0.60%  | 0.072% |
| 53 | 15.683 | 2182 | 2186 | 2190 | rVB2 | 24242   | 35018   | 0.82%  | 0.097% |
| 54 | 15.847 | 2208 | 2214 | 2222 | rBV  | 969427  | 1452015 | 33.89% | 4.040% |
| 55 | 15.947 | 2225 | 2231 | 2242 | rVB  | 321018  | 493636  | 11.52% | 1.374% |
| 56 | 16.088 | 2249 | 2255 | 2260 | rBV9 | 21097   | 38594   | 0.90%  | 0.107% |
| 57 | 16.540 | 2328 | 2332 | 2336 | rBV2 | 40266   | 63608   | 1.48%  | 0.177% |
| 58 | 16.717 | 2360 | 2362 | 2366 | rBV5 | 10032   | 12430   | 0.29%  | 0.035% |
| 59 | 16.969 | 2402 | 2405 | 2410 | rVB3 | 37704   | 44454   | 1.04%  | 0.124% |
| 60 | 17.104 | 2426 | 2428 | 2429 | rBV2 | 6080    | 4898    | 0.11%  | 0.014% |
| 61 | 17.334 | 2463 | 2467 | 2471 | rVB2 | 45260   | 57021   | 1.33%  | 0.159% |
| 62 | 17.386 | 2471 | 2476 | 2481 | rBV9 | 25492   | 48579   | 1.13%  | 0.135% |
| 63 | 17.463 | 2487 | 2489 | 2493 | rBV4 | 10498   | 10156   | 0.24%  | 0.028% |
| 64 | 17.604 | 2506 | 2513 | 2518 | rBV  | 1137694 | 1781213 | 41.57% | 4.956% |
| 65 | 17.645 | 2518 | 2520 | 2524 | rVV  | 60405   | 78414   | 1.83%  | 0.218% |
| 66 | 17.698 | 2524 | 2529 | 2536 | rVB  | 967036  | 1492861 | 34.84% | 4.154% |
| 67 | 17.950 | 2570 | 2572 | 2576 | rVB4 | 11977   | 14127   | 0.33%  | 0.039% |
| 68 | 18.074 | 2590 | 2593 | 2596 | rVB2 | 29804   | 30879   | 0.72%  | 0.086% |
| 69 | 18.168 | 2606 | 2609 | 2612 | rBV5 | 17121   | 25234   | 0.59%  | 0.070% |
| 70 | 18.356 | 2637 | 2641 | 2643 | rBV5 | 28945   | 43425   | 1.01%  | 0.121% |
| 71 | 18.415 | 2646 | 2651 | 2656 | rVV  | 758440  | 1073741 | 25.06% | 2.988% |

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Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 72 | 18.473 | 2656 | 2661 | 2667 | rVB  | 696254  | 902277  | 21.06%  | 2.511%  |
| 73 | 19.032 | 2749 | 2756 | 2757 | rBV7 | 85381   | 159230  | 3.72%   | 0.443%  |
| 74 | 19.067 | 2757 | 2762 | 2763 | rBV4 | 143263  | 239112  | 5.58%   | 0.665%  |
| 75 | 19.120 | 2768 | 2771 | 2772 | rBV3 | 123033  | 130145  | 3.04%   | 0.362%  |
| 76 | 19.131 | 2772 | 2773 | 2776 | rVV3 | 120822  | 154143  | 3.60%   | 0.429%  |
| 77 | 19.184 | 2780 | 2782 | 2787 | rVB5 | 243028  | 427007  | 9.97%   | 1.188%  |
| 78 | 19.607 | 2852 | 2854 | 2856 | rBV2 | 53779   | 61303   | 1.43%   | 0.171%  |
| 79 | 19.637 | 2856 | 2859 | 2864 | rVB  | 187054  | 242825  | 5.67%   | 0.676%  |
| 80 | 19.725 | 2870 | 2874 | 2879 | rBV2 | 153806  | 204061  | 4.76%   | 0.568%  |
| 81 | 19.860 | 2894 | 2897 | 2898 | rBV2 | 107614  | 112372  | 2.62%   | 0.313%  |
| 82 | 19.972 | 2900 | 2916 | 2924 | rVB  | 1565555 | 4284925 | 100.00% | 11.923% |
| 83 | 20.442 | 2980 | 2996 | 3012 | rVB9 | 513208  | 2661704 | 62.12%  | 7.406%  |
| 84 | 21.499 | 3172 | 3176 | 3181 | rBV2 | 409518  | 650778  | 15.19%  | 1.811%  |
| 85 | 21.893 | 3237 | 3243 | 3249 | rVB  | 1263930 | 2042898 | 47.68%  | 5.684%  |
| 86 | 22.733 | 3381 | 3386 | 3392 | rBV3 | 249839  | 504479  | 11.77%  | 1.404%  |
| 87 | 24.325 | 3653 | 3657 | 3662 | rBV2 | 165009  | 285741  | 6.67%   | 0.795%  |
| 88 | 25.060 | 3775 | 3782 | 3791 | rVB  | 581397  | 1373561 | 32.06%  | 3.822%  |
| 89 | 25.301 | 3815 | 3823 | 3836 | rVB2 | 667876  | 2112097 | 49.29%  | 5.877%  |
| 90 | 26.687 | 4054 | 4059 | 4072 | rVB6 | 215779  | 640129  | 14.94%  | 1.781%  |
| 91 | 31.006 | 4788 | 4794 | 4812 | rVB6 | 338256  | 1439992 | 33.61%  | 4.007%  |

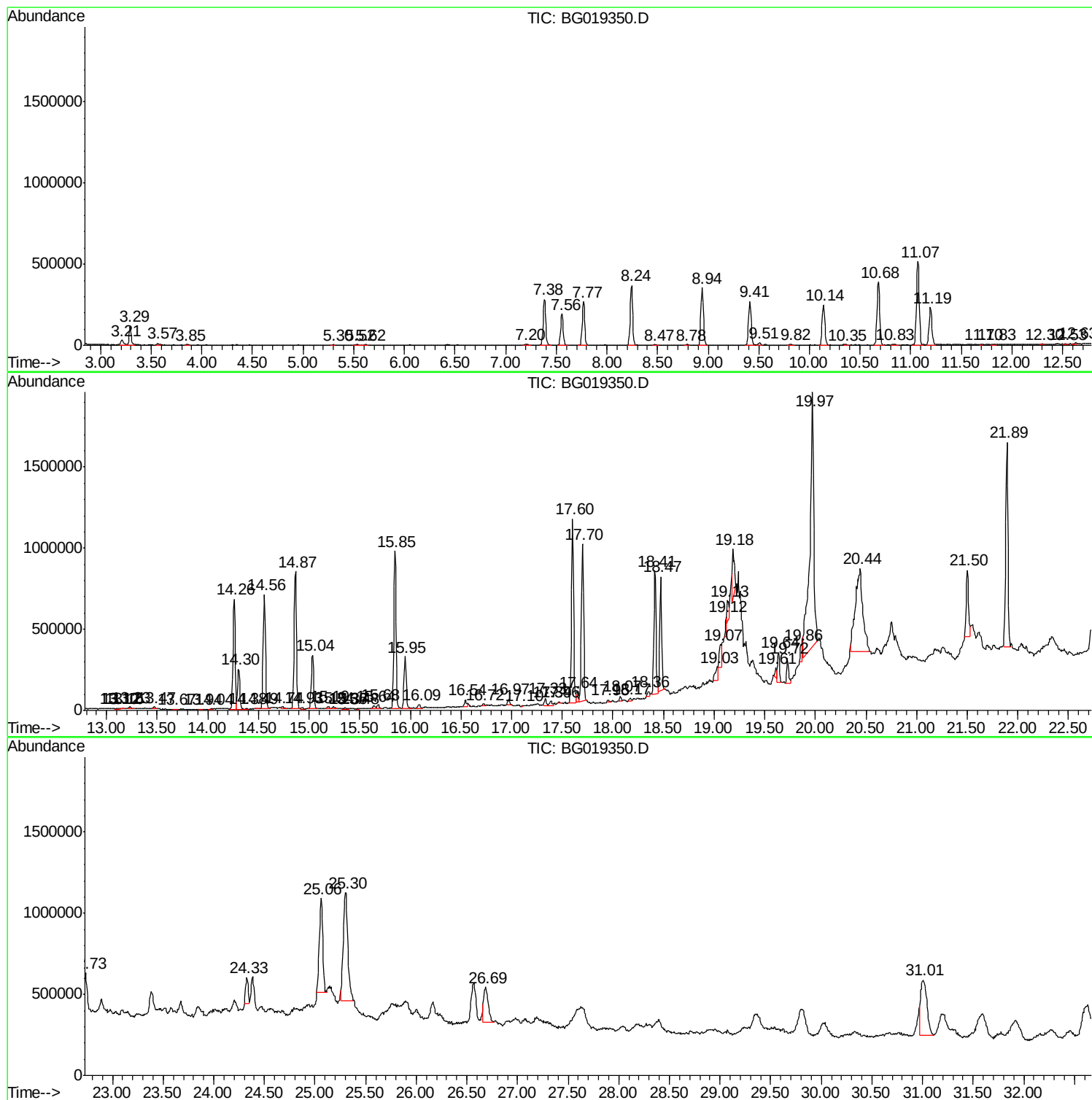
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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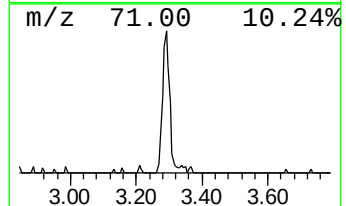
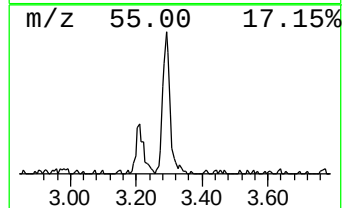
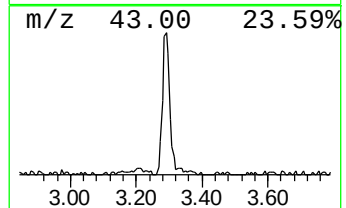
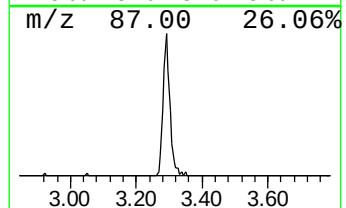
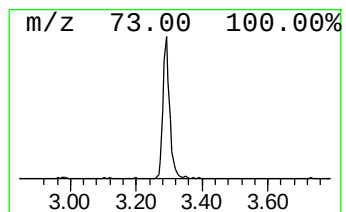
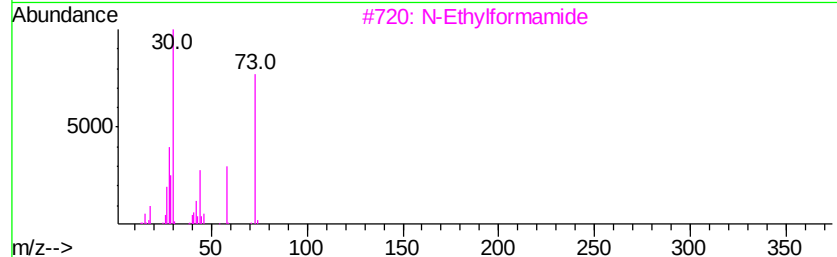
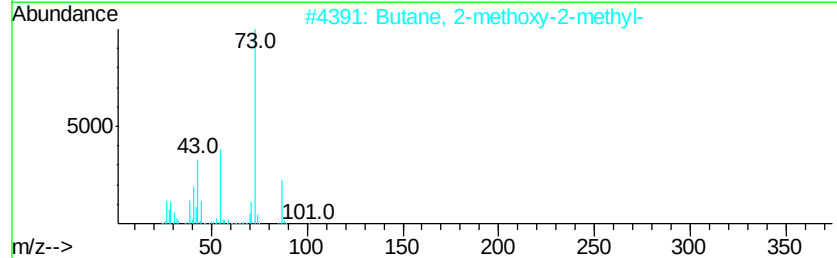
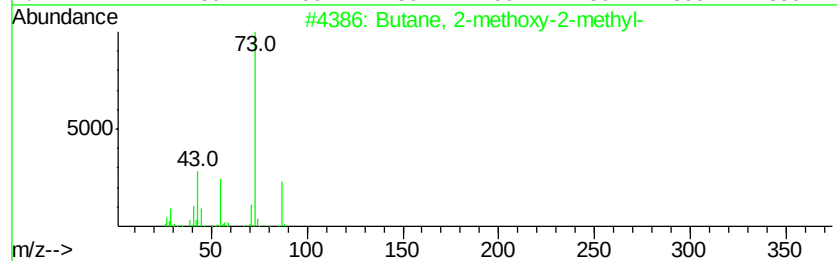
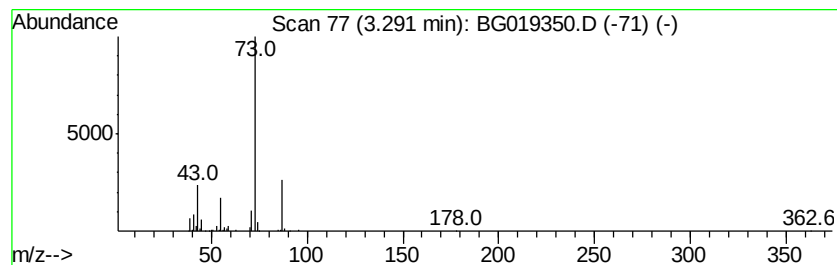
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.29 | 5.39 ng/ul | 169919 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 59   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 39   |
| 3    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |
| 4    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 9    |
| 5    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 9    |



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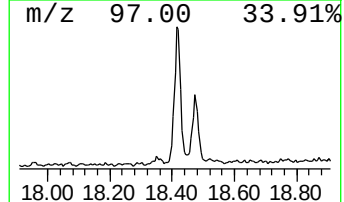
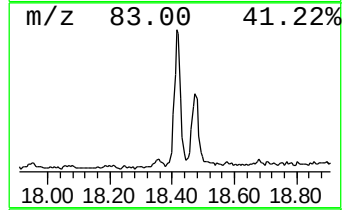
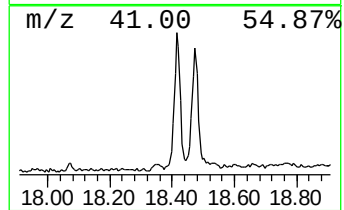
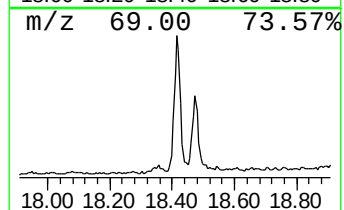
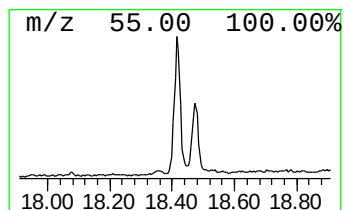
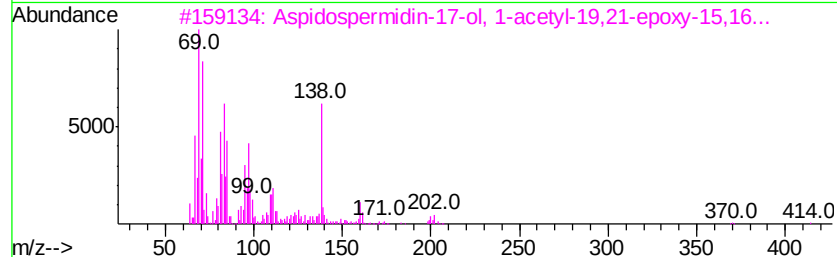
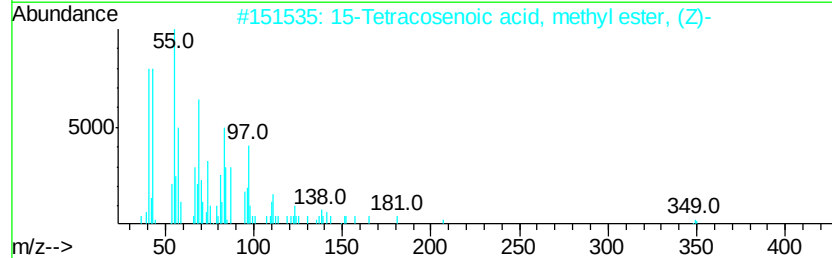
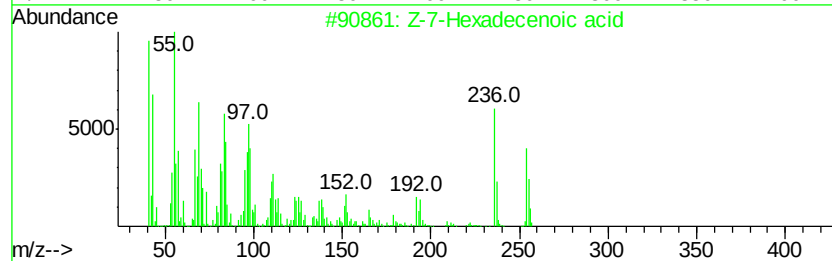
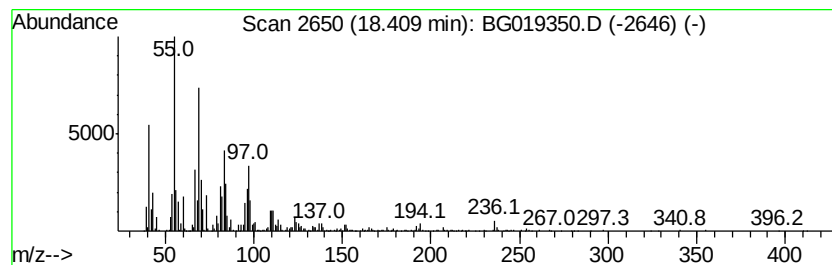
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Z-7-Hexadecenoic acid Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.41 | 12.06 ng/ul | 1073740 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Z-7-Hexadecenoic acid               | 254 | C16H30O2   | 1000130-90-8 | 89   |
| 2    |    | 15-Tetracosenoic acid, methyl es... | 380 | C25H48O2   | 002733-88-2  | 74   |
| 3    |    | Aspidospermidin-17-ol, 1-acetyl-... | 414 | C23H30N2O5 | 002122-26-1  | 72   |
| 4    |    | Hexadecenoic acid, Z-11-            | 254 | C16H30O2   | 002416-20-8  | 72   |
| 5    |    | 9-Tetradecenal, (Z)-                | 210 | C14H26O    | 053939-27-8  | 62   |



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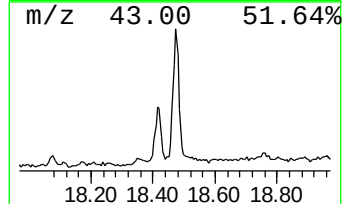
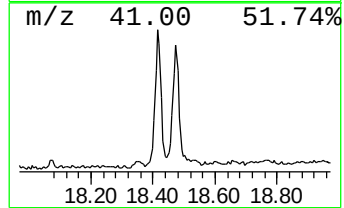
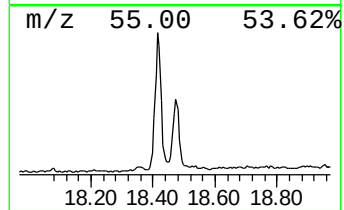
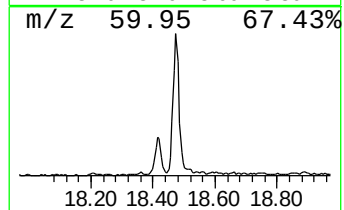
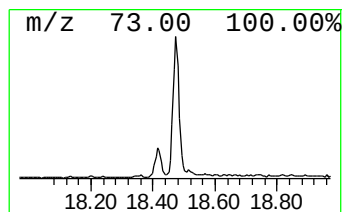
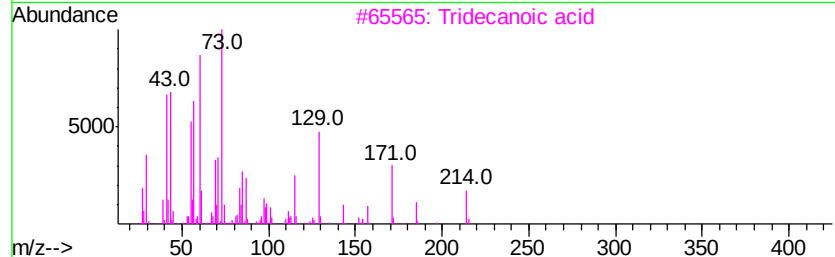
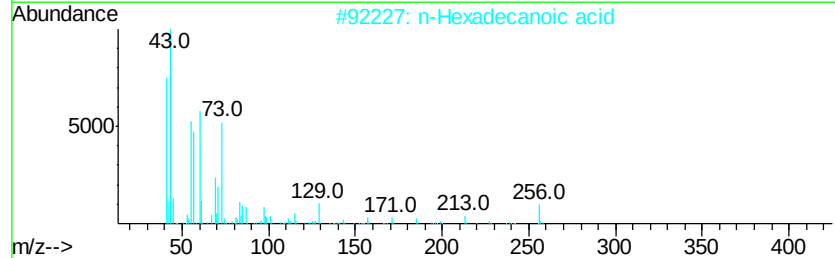
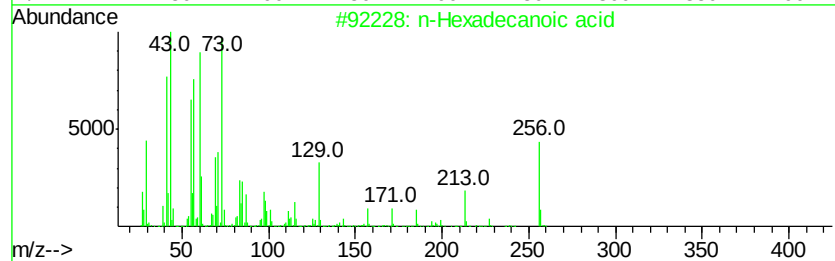
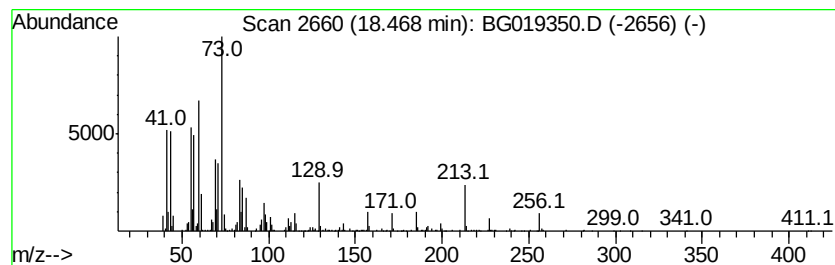
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 18.47 | 10.13 ng/ul | 902277 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 83   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |
| 4    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 70   |
| 5    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 68   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

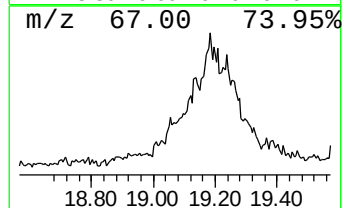
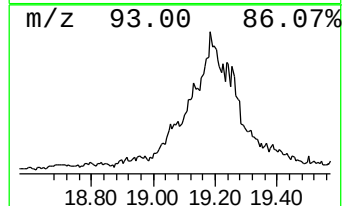
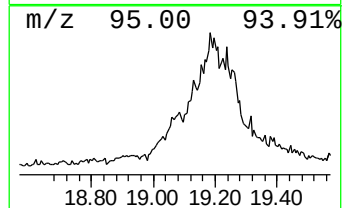
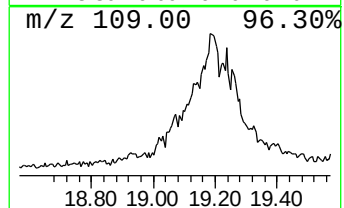
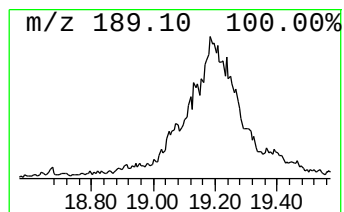
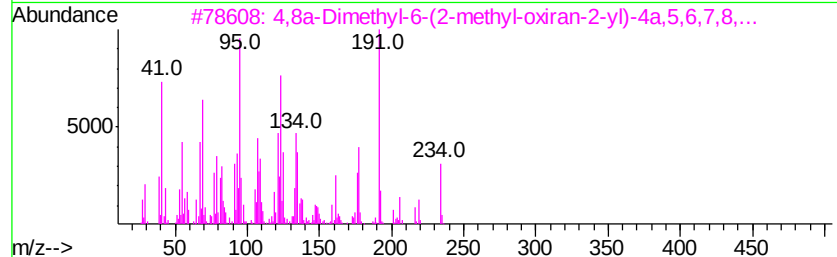
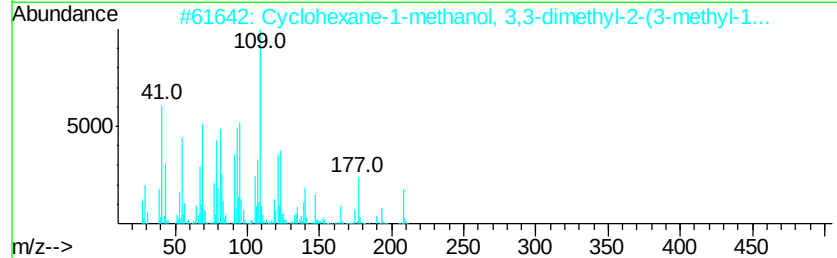
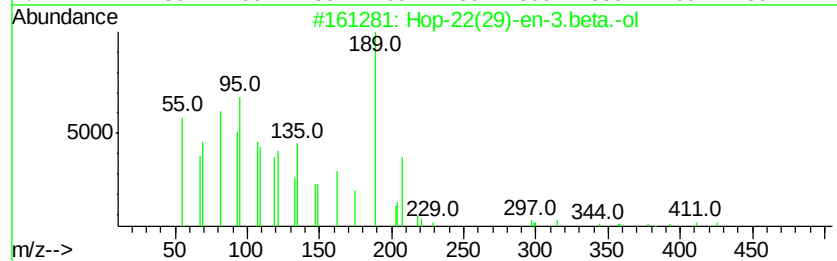
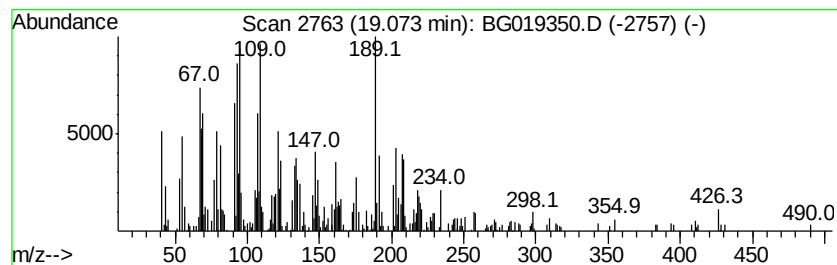
Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hop-22(29)-en-3.beta.-ol Concentration Rank 11

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 19.07   | 2.68 ng/ul | 239112                              | Phenanthrene-d10 | 17.60           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Hop-22(29)-en-3.beta.-ol            | 426 C30H50O      | 058801-23-3 64  |
| 2       |            | Cyclohexane-1-methanol, 3,3-dime... | 208 C14H24O      | 1000196-01-5 25 |
| 3       |            | 4,8a-Dimethyl-6-(2-methyl-oxiran... | 234 C15H22O2     | 1000189-11-4 25 |
| 4       |            | 3,5-Dimethylcyclohex-1-ene-4-car... | 138 C9H14O       | 006975-94-6 15  |
| 5       |            | 5-Bromo-4-oxo-4,5,6,7-tetrahydro... | 216 C6H5BrN2O2   | 300574-36-1 14  |





Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

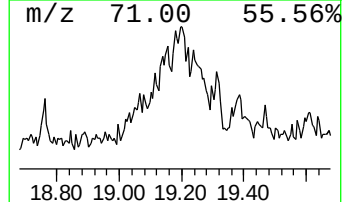
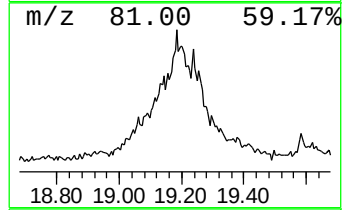
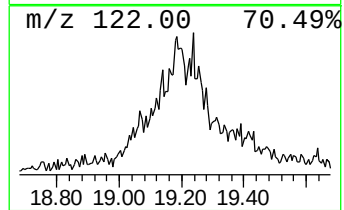
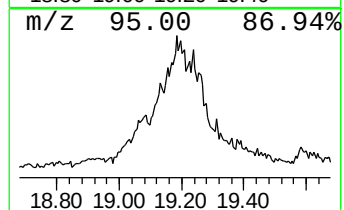
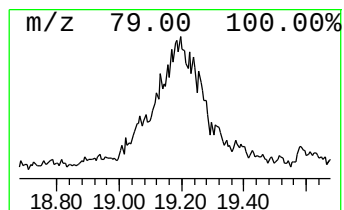
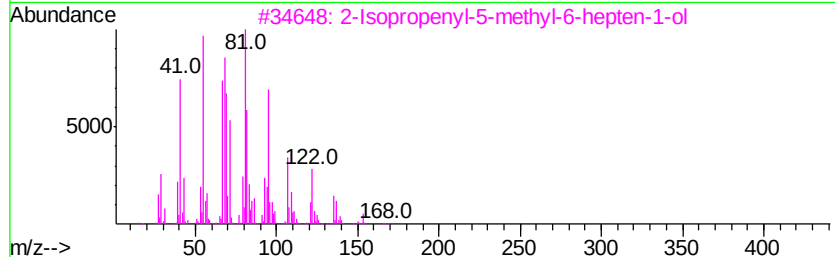
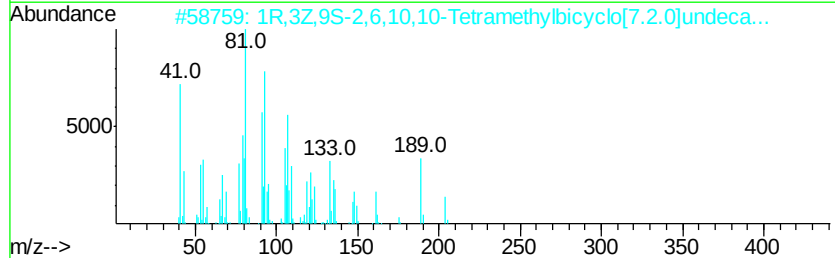
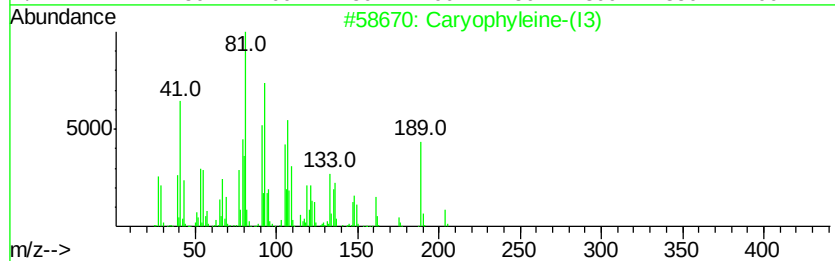
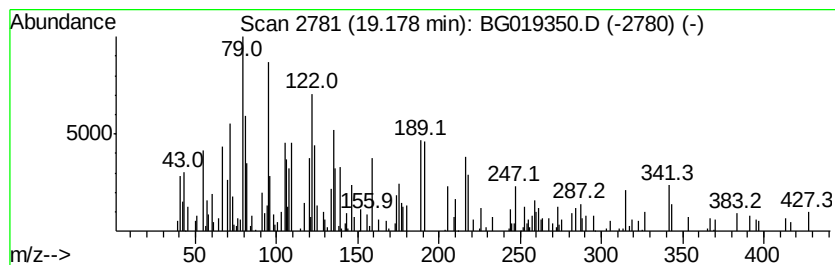
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Caryophyllene-(I3) Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.18 | 4.79 ng/ul | 427007 | Phenanthrene-d10 | 17.60 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|---------|---|-------------------------------------|-----|---------|--------------|------|
| 1       |   | Caryophyllene-(I3)                  | 204 | C15H24  | 136296-37-2  | 59   |
| 2       |   | 1R,3Z,9S-2,6,10,10-Tetramethylbi... | 204 | C15H24  | 1000140-07-4 | 56   |
| 3       |   | 2-Isopropenyl-5-methyl-6-hepten-... | 168 | C11H20O | 013066-55-2  | 46   |
| 4       |   | 1,3,3-Trimethyl-2-hydroxymethyl-... | 222 | C15H26O | 1000144-10-7 | 43   |
| 5       |   | 1,5,9-Cyclododecatriene, 1,5,9-t... | 204 | C15H24  | 021064-19-7  | 42   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

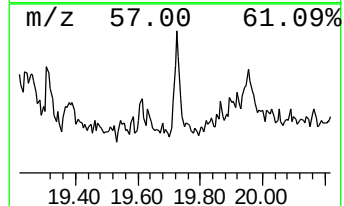
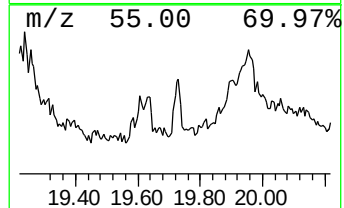
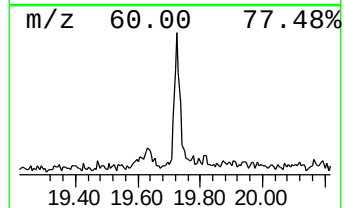
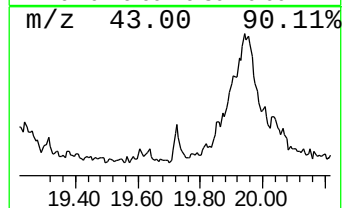
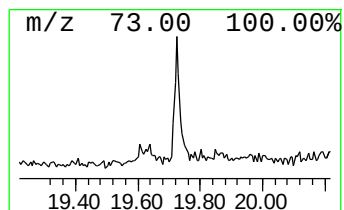
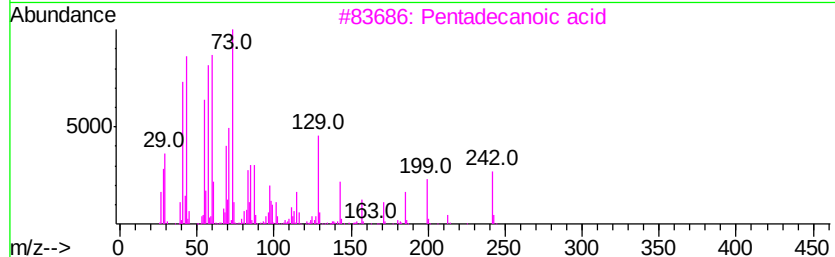
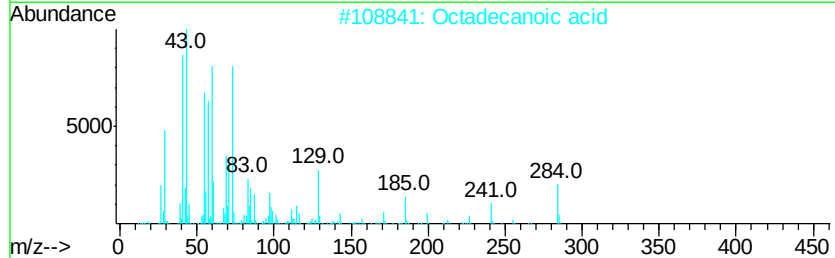
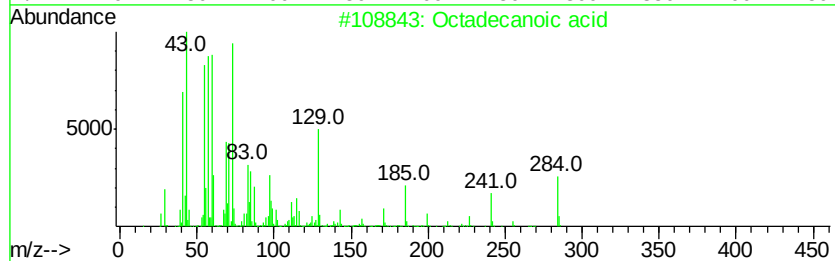
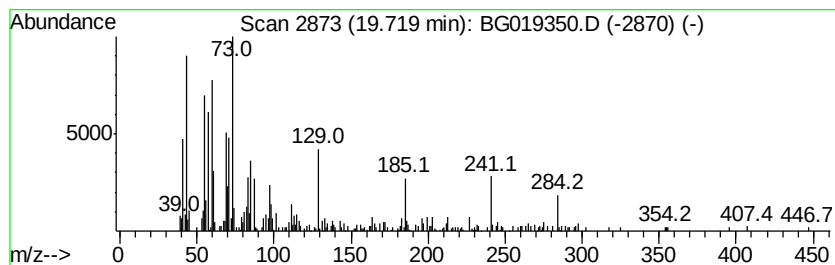
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octadecanoic acid Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.72 | 2.29 ng/ul | 204061 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 97   |
| 2    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 86   |
| 3    |    | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83   |
| 4    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 64   |
| 5    |    | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 58   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

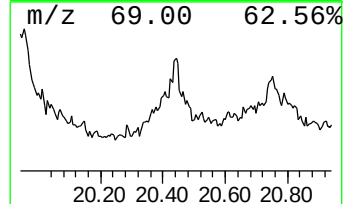
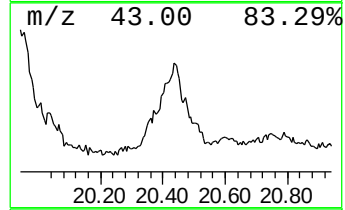
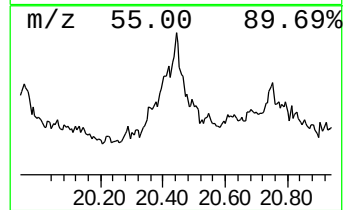
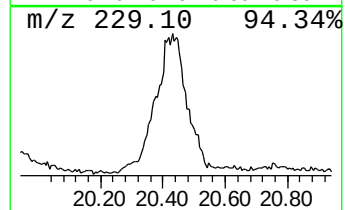
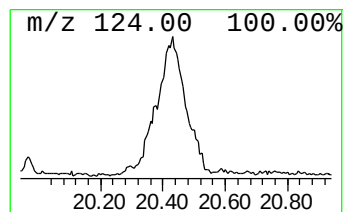
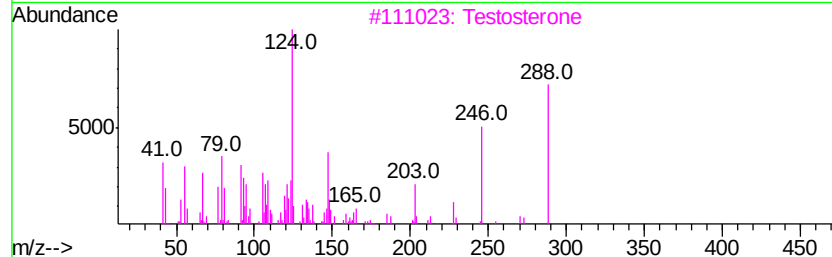
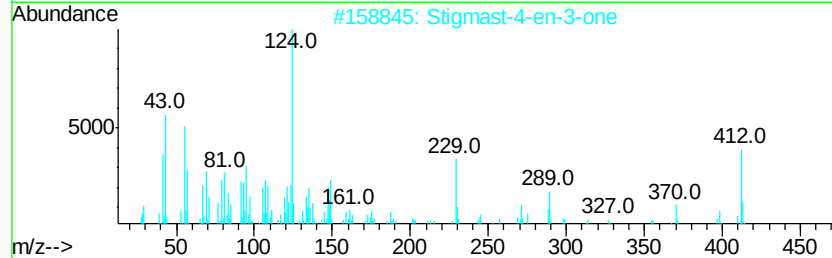
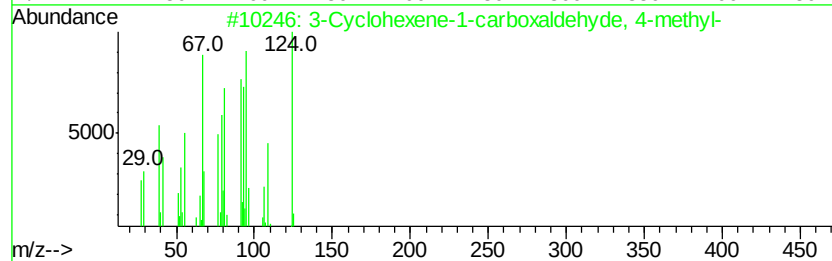
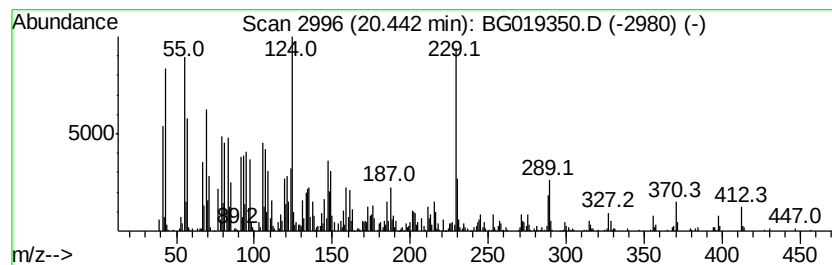
Instrument :  
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ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 3-Cyclohexene-1-carboxaldeh... Concentration Rank 1

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.           |
|---------|-------------|-------------------------------------|------------------|----------------|
| 20.44   | 26.06 ng/ul | 2661700                             | Chrysene-d12     | 21.89          |
| Hit# of | 5           | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |             | 3-Cyclohexene-1-carboxaldehde, ...  | 124 C8H12O       | 007560-64-7 92 |
| 2       |             | Stigmast-4-en-3-one                 | 412 C29H48O      | 001058-61-3 64 |
| 3       |             | Testosterone                        | 288 C19H28O2     | 000058-22-0 52 |
| 4       |             | (Z,Z)-3-Methyl-3H-cyclonona(def)... | 230 C18H14       | 110823-80-8 38 |
| 5       |             | 1,4-Benzenediol, 2-methyl-          | 124 C7H8O2       | 000095-71-6 38 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

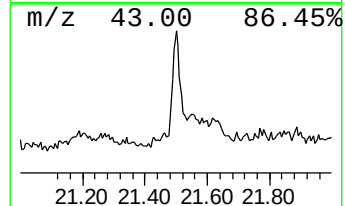
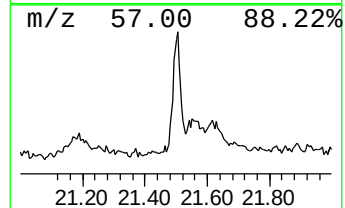
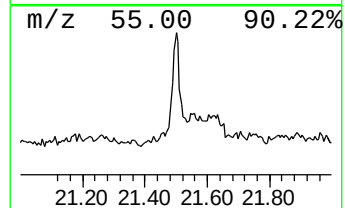
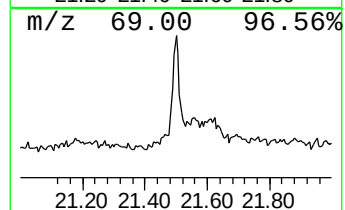
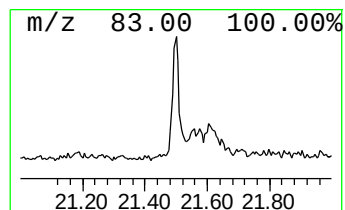
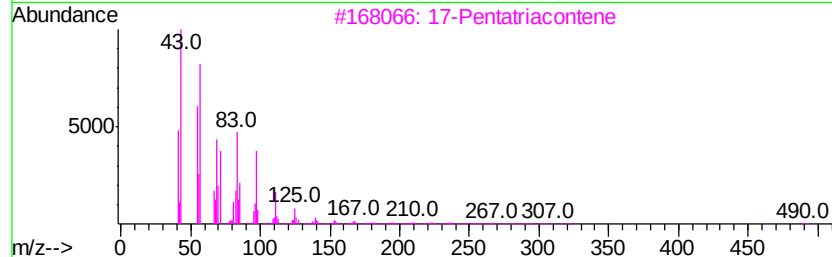
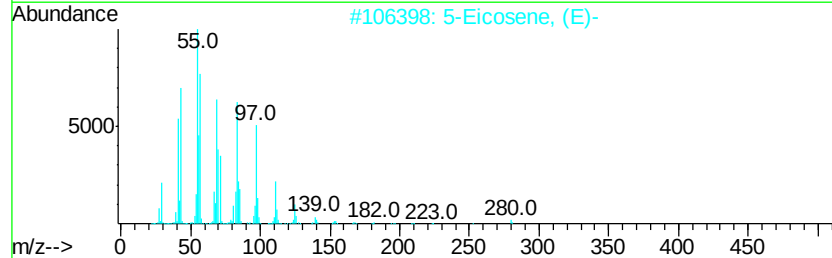
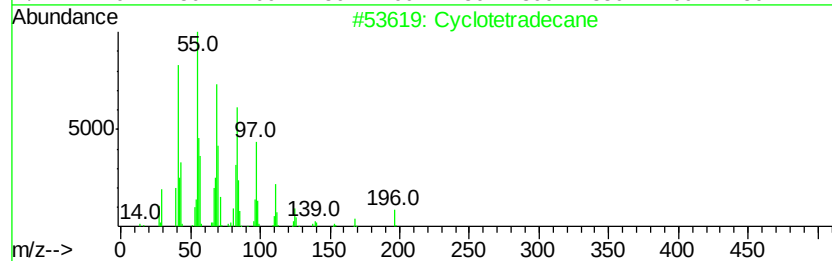
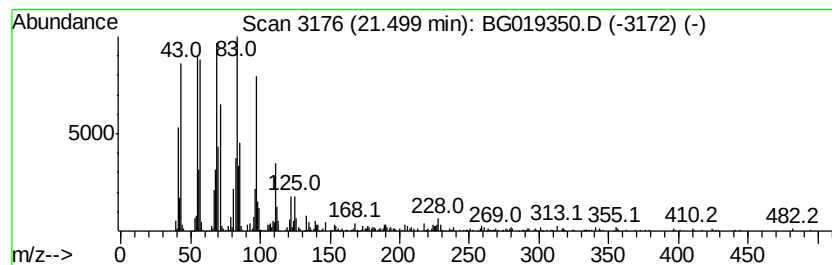
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Cyclic21.50 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.50 | 6.37 ng/ul | 650778 | Chrysene-d12     | 21.89 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclotetradecane    | 196 | C14H28  | 000295-17-0 | 92   |
| 2    |    | 5-Eicosene, (E)-    | 280 | C20H40  | 074685-30-6 | 92   |
| 3    |    | 17-Pentatriacontene | 491 | C35H70  | 006971-40-0 | 91   |
| 4    |    | Cyclotetracosane    | 336 | C24H48  | 000297-03-0 | 91   |
| 5    |    | 3-Eicosene, (E)-    | 280 | C20H40  | 074685-33-9 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

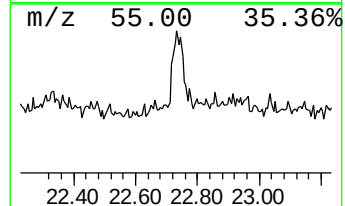
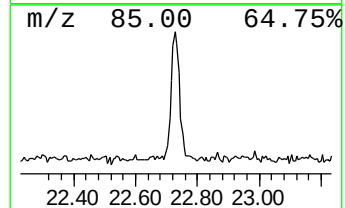
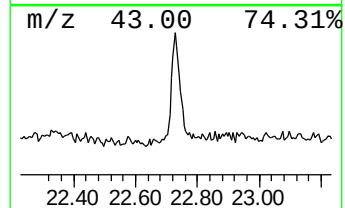
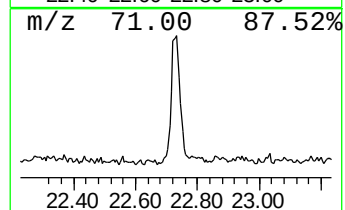
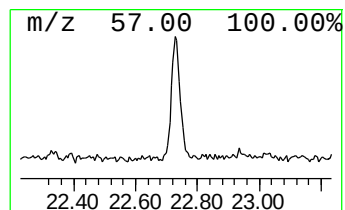
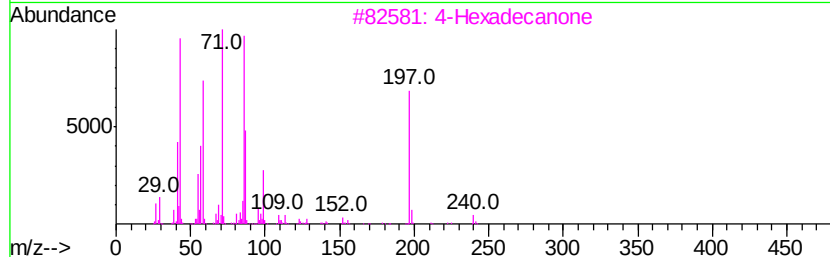
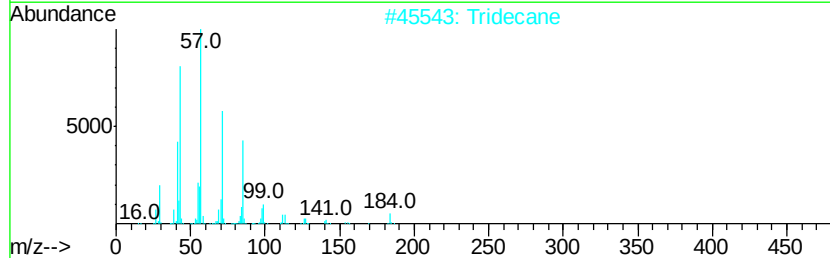
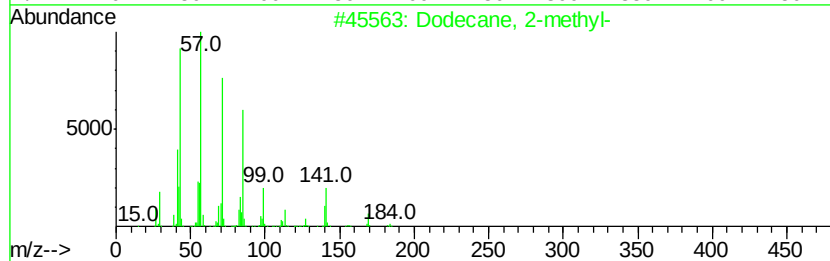
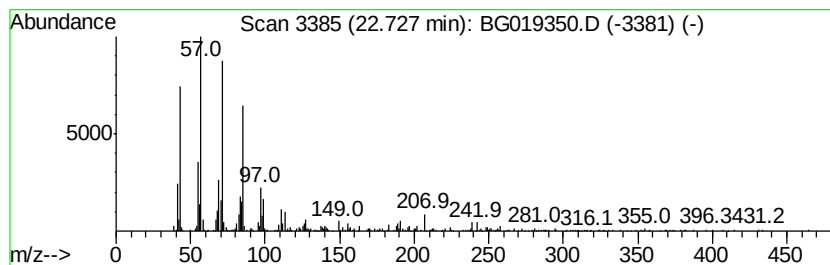
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.73 | 4.94 ng/ul | 504479 | Chrysene-d12     | 21.89 |

| Hit# | of | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------|-----|------------|--------------|------|
| 1    | 5  | Dodecane, 2-methyl-              | 184 | C13H28     | 001560-97-0  | 81   |
| 2    |    | Tridecane                        | 184 | C13H28     | 000629-50-5  | 55   |
| 3    |    | 4-Hexadecanone                   | 240 | C16H32O    | 018787-65-0  | 46   |
| 4    |    | Tetrapentacontane, 1,54-dibromo- | 915 | C54H108Br2 | 1000156-09-4 | 43   |
| 5    |    | Borane, diethyl(decyloxy)-       | 226 | C14H31BO   | 1000152-34-3 | 43   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

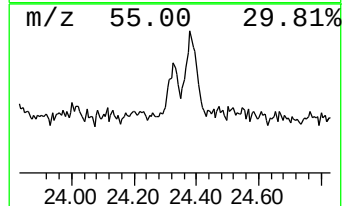
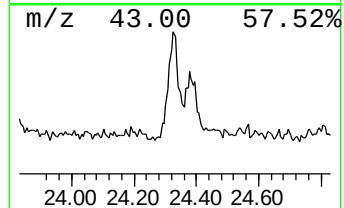
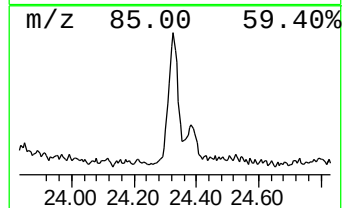
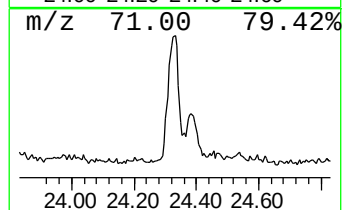
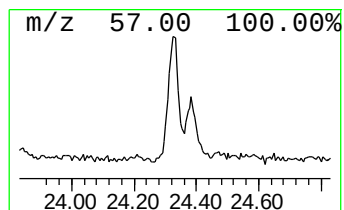
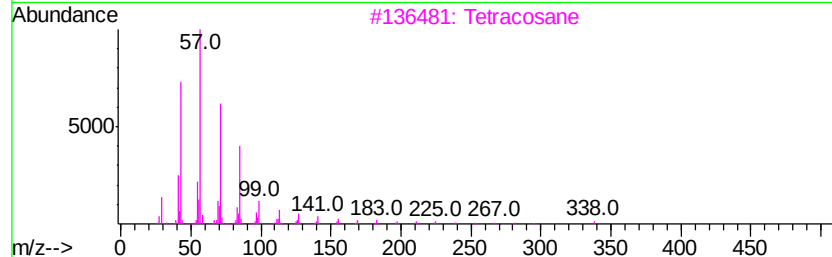
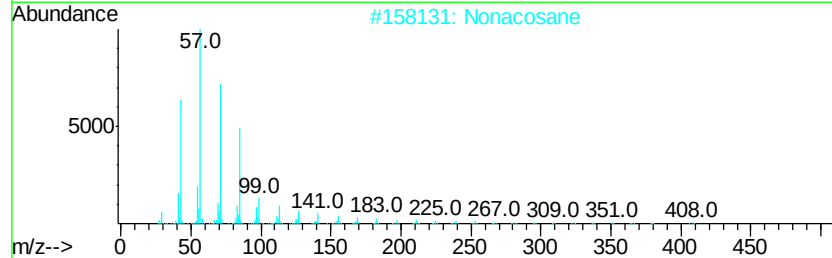
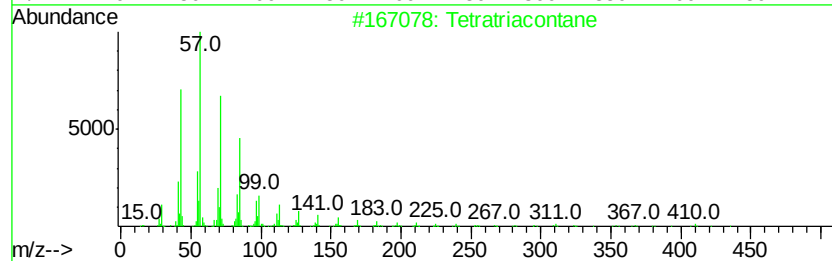
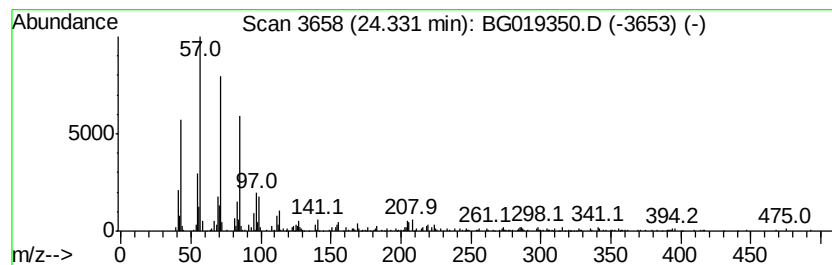
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.33 | 2.71 ng/ul | 285741 | Perylene-d12     | 25.30 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Tetratriacontane     | 479 | C34H70  | 014167-59-0 | 91   |
| 2    |    | Nonacosane           | 408 | C29H60  | 000630-03-5 | 91   |
| 3    |    | Tetracosane          | 338 | C24H50  | 000646-31-1 | 90   |
| 4    |    | Heptacosane          | 380 | C27H56  | 000593-49-7 | 90   |
| 5    |    | Hexacosane, 9-octyl- | 479 | C34H70  | 055429-83-9 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

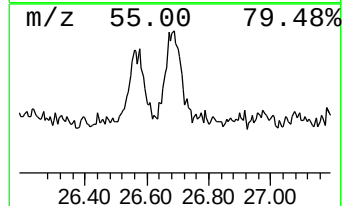
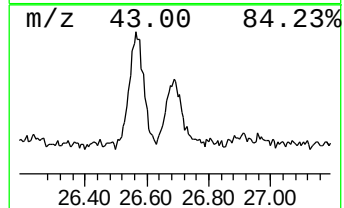
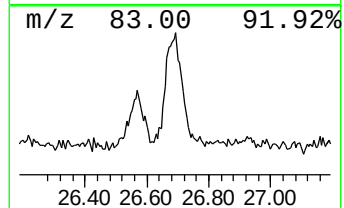
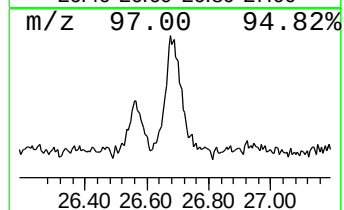
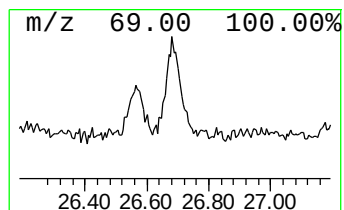
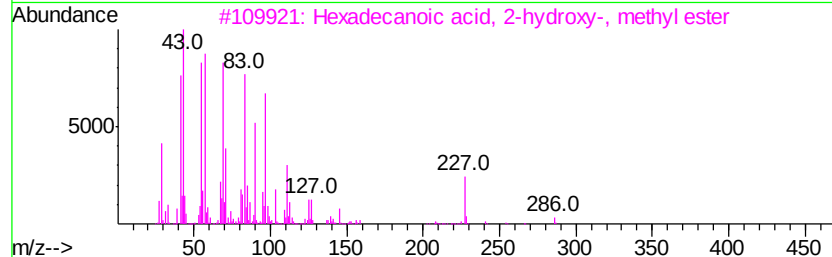
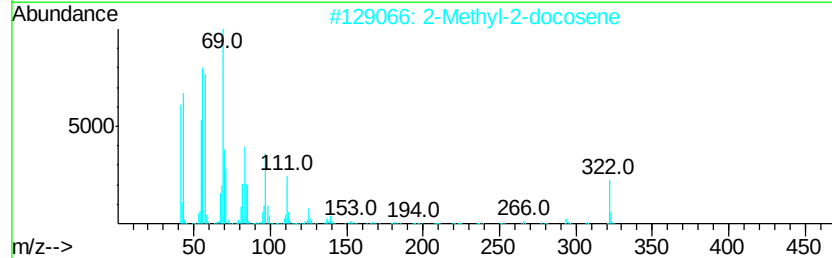
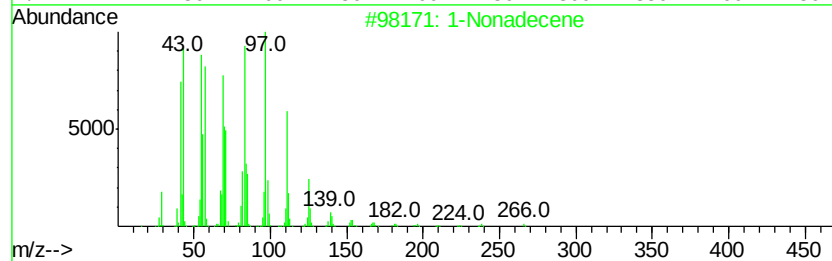
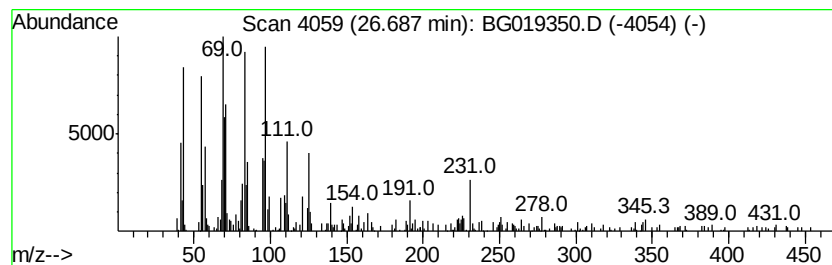
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Cyclic26.69 Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.69 | 6.06 ng/ul | 640129 | Perylene-d12     | 25.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1-Nonadecene                        | 266 | C19H38   | 018435-45-5  | 70   |
| 2    |    | 2-Methyl-2-docosene                 | 322 | C23H46   | 1000131-16-9 | 70   |
| 3    |    | Hexadecanoic acid, 2-hydroxy-, m... | 286 | C17H34O3 | 016742-51-1  | 64   |
| 4    |    | 8-Heptadecene                       | 238 | C17H34   | 002579-04-6  | 64   |
| 5    |    | 3-Heptadecene, (Z)-                 | 238 | C17H34   | 1000141-67-3 | 62   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

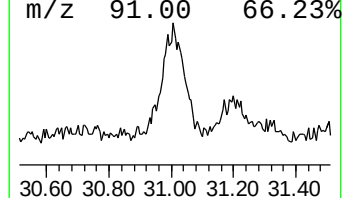
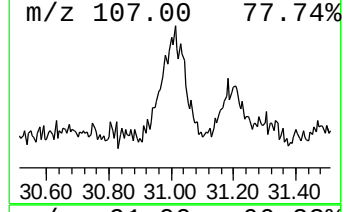
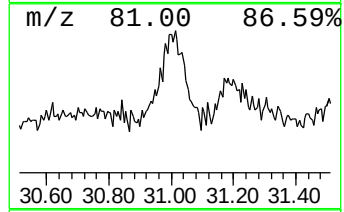
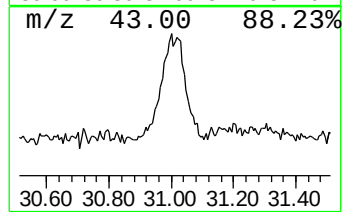
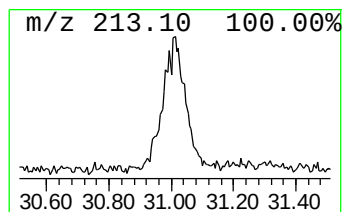
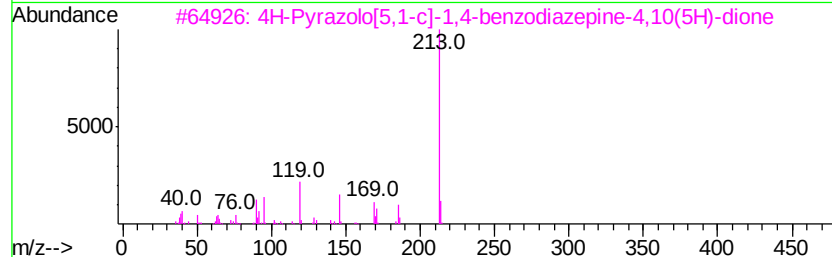
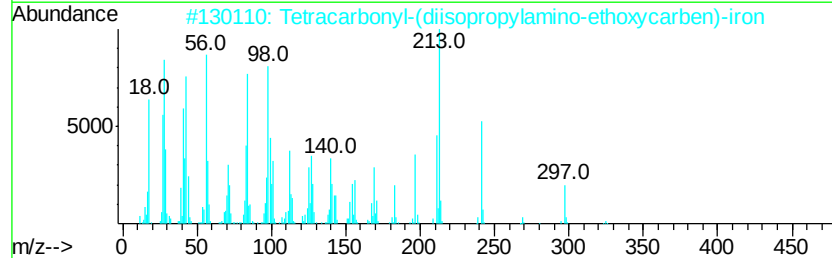
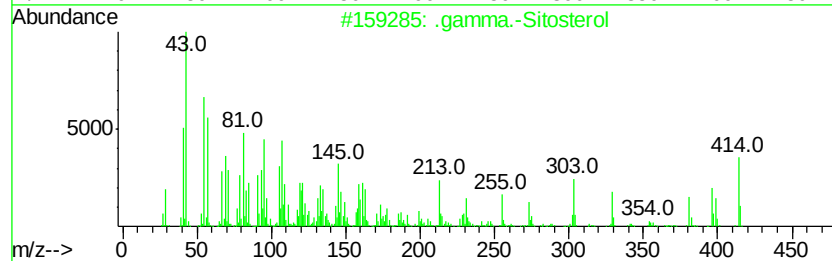
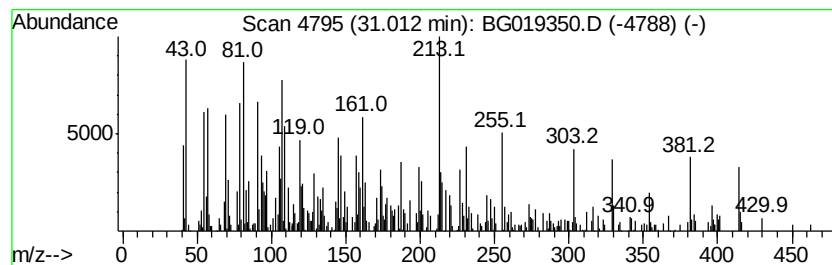
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown-01 Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 31.01 | 13.64 ng/ul | 1439990 | Perylene-d12     | 25.30 |

| Hit# | of | Tentative ID                         | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | .gamma.-Sitosterol                   | 414 | C29H50O     | 000083-47-6  | 45   |
| 2    |    | Tetracarbonyl-(diisopropylamino)-... | 325 | C13H19FeN05 | 1000287-87-1 | 25   |
| 3    |    | 4H-Pyrazolo[5,1-c]-1,4-benzodiaz...  | 213 | C11H7N3O2   | 1000277-20-1 | 15   |
| 4    |    | Benzenemethanol, 4-methoxy-.alph...  | 290 | C20H18O2    | 000847-83-6  | 14   |
| 5    |    | 3,5,6-Tris(trifluoromethyl)-1-ni...  | 329 | C9H4F9N02   | 199939-12-3  | 10   |





Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG102315\  
Data File : BG019350.D  
Acq On : 25 Oct 2015 00:10  
Operator : UM/NP  
Sample : G4075-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JG9K6

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG102315.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.29  | 5.4     | ng/ul | 169919   | 1                     | 8.24  | 630327  | 20.0 |
| Z-7-Hexadecenoic ... | 18.41 | 12.1    | ng/ul | 1073740  | 4                     | 17.60 | 1781210 | 20.0 |
| n-Hexadecanoic acid  | 18.47 | 10.1    | ng/ul | 902277   | 4                     | 17.60 | 1781210 | 20.0 |
| Hop-22(29)-en-3.b... | 19.07 | 2.7     | ng/ul | 239112   | 4                     | 17.60 | 1781210 | 20.0 |
| Caryophyllene-(I3)   | 19.18 | 4.8     | ng/ul | 427007   | 4                     | 17.60 | 1781210 | 20.0 |
| Octadecanoic acid    | 19.72 | 2.3     | ng/ul | 204061   | 4                     | 17.60 | 1781210 | 20.0 |
| 3-Cyclohexene-1-c... | 20.44 | 26.1    | ng/ul | 2661700  | 5                     | 21.89 | 2042900 | 20.0 |
| (DEL) Alkane: Cyc... | 21.50 | 6.4     | ng/ul | 650778   | 5                     | 21.89 | 2042900 | 20.0 |
| (DEL) Alkane: Str... | 22.73 | 4.9     | ng/ul | 504479   | 5                     | 21.89 | 2042900 | 20.0 |
| (DEL) Alkane: Str... | 24.33 | 2.7     | ng/ul | 285741   | 6                     | 25.30 | 2112100 | 20.0 |
| (DEL) Alkane: Cyc... | 26.69 | 6.1     | ng/ul | 640129   | 6                     | 25.30 | 2112100 | 20.0 |
| unknown-01           | 31.01 | 13.6    | ng/ul | 1439990  | 6                     | 25.30 | 2112100 | 20.0 |