

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102816\  
 Data File : BF090906.D  
 Acq On : 28 Oct 2016 13:27  
 Operator : UM/SJ  
 Sample : H5423-07 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

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:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 4.224       | 185           | 187         | 195          | rBV      | 36396          | 61722         | 3.06%           | 0.255%        |
| 2         | 4.898       | 244           | 246         | 257          | rBV      | 496264         | 690240        | 34.20%          | 2.852%        |
| 3         | 5.344       | 283           | 285         | 288          | rBV      | 1548677        | 1490934       | 73.87%          | 6.159%        |
| 4         | 6.019       | 342           | 344         | 346          | rVB2     | 25462          | 22737         | 1.13%           | 0.094%        |
| 5         | 6.396       | 375           | 377         | 386          | rBV      | 1935383        | 1887827       | 93.53%          | 7.799%        |
| 6         | 6.521       | 386           | 388         | 391          | rBV      | 1876060        | 1827467       | 90.54%          | 7.550%        |
| 7         | 6.762       | 407           | 409         | 411          | rBV      | 964315         | 959891        | 47.56%          | 3.965%        |
| 8         | 6.910       | 420           | 422         | 425          | rBV      | 1261093        | 1352389       | 67.00%          | 5.587%        |
| 9         | 7.322       | 456           | 458         | 465          | rBV      | 1108734        | 1139787       | 56.47%          | 4.709%        |
| 10        | 8.042       | 519           | 521         | 524          | rBV      | 923953         | 1319305       | 65.37%          | 5.450%        |
| 11        | 9.127       | 613           | 616         | 618          | rBV      | 2262498        | 2018353       | 100.00%         | 8.338%        |
| 12        | 9.527       | 648           | 651         | 653          | rBV      | 362981         | 485042        | 24.03%          | 2.004%        |
| 13        | 9.710       | 665           | 667         | 669          | rBV2     | 16579          | 23723         | 1.18%           | 0.098%        |
| 14        | 9.802       | 672           | 675         | 677          | rBV      | 1865551        | 1599002       | 79.22%          | 6.606%        |
| 15        | 10.236      | 709           | 713         | 716          | rBV3     | 18609          | 48194         | 2.39%           | 0.199%        |
| 16        | 10.590      | 741           | 744         | 746          | rBV      | 549970         | 691168        | 34.24%          | 2.855%        |
| 17        | 10.716      | 753           | 755         | 759          | rVB      | 49207          | 59006         | 2.92%           | 0.244%        |
| 18        | 11.162      | 792           | 794         | 795          | rBV      | 36445          | 27013         | 1.34%           | 0.112%        |
| 19        | 11.288      | 802           | 805         | 807          | rBV      | 1092752        | 1345116       | 66.64%          | 5.557%        |
| 20        | 11.356      | 809           | 811         | 814          | rVB      | 24142          | 31915         | 1.58%           | 0.132%        |
| 21        | 11.539      | 822           | 827         | 829          | rBV6     | 8340           | 25566         | 1.27%           | 0.106%        |
| 22        | 11.585      | 829           | 831         | 835          | rVB      | 24603          | 31156         | 1.54%           | 0.129%        |
| 23        | 11.791      | 847           | 849         | 850          | rBV      | 16648          | 23767         | 1.18%           | 0.098%        |
| 24        | 11.813      | 850           | 851         | 853          | rVV      | 27189          | 25885         | 1.28%           | 0.107%        |
| 25        | 11.893      | 856           | 858         | 863          | rVB      | 45874          | 77034         | 3.82%           | 0.318%        |
| 26        | 12.111      | 872           | 877         | 880          | rBV4     | 14758          | 53990         | 2.67%           | 0.223%        |
| 27        | 12.236      | 883           | 888         | 891          | rBV6     | 19322          | 62957         | 3.12%           | 0.260%        |
| 28        | 12.339      | 895           | 897         | 898          | rBV      | 23056          | 31966         | 1.58%           | 0.132%        |
| 29        | 12.362      | 898           | 899         | 900          | rBV      | 17417          | 23609         | 1.17%           | 0.098%        |
| 30        | 12.465      | 906           | 908         | 909          | rBV2     | 21907          | 38650         | 1.91%           | 0.160%        |
| 31        | 12.488      | 909           | 910         | 913          | rVV      | 155910         | 193959        | 9.61%           | 0.801%        |
| 32        | 12.556      | 913           | 916         | 918          | rVB3     | 20714          | 32528         | 1.61%           | 0.134%        |
| 33        | 12.716      | 928           | 930         | 932          | rBV      | 208021         | 256416        | 12.70%          | 1.059%        |
| 34        | 12.865      | 941           | 943         | 946          | rBV      | 1094789        | 1437836       | 71.24%          | 5.940%        |

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BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 12.945 | 947  | 950  | 951  | rBV2 | 22640  | 35946   | 1.78%  | 0.148% |
| 36 | 13.048 | 957  | 959  | 961  | rVB  | 47072  | 52364   | 2.59%  | 0.216% |
| 37 | 13.116 | 963  | 965  | 967  | rBV2 | 22232  | 28329   | 1.40%  | 0.117% |
| 38 | 13.151 | 967  | 968  | 973  | rBV3 | 28854  | 64718   | 3.21%  | 0.267% |
| 39 | 13.276 | 978  | 979  | 981  | rVV  | 32200  | 37380   | 1.85%  | 0.154% |
| 40 | 13.311 | 981  | 982  | 985  | rVB3 | 28842  | 33383   | 1.65%  | 0.138% |
| 41 | 13.779 | 1021 | 1023 | 1027 | rVB3 | 64714  | 110752  | 5.49%  | 0.458% |
| 42 | 13.917 | 1033 | 1035 | 1041 | rBV2 | 970184 | 1402376 | 69.48% | 5.793% |
| 43 | 14.934 | 1122 | 1124 | 1128 | rBV  | 152309 | 294053  | 14.57% | 1.215% |
| 44 | 15.208 | 1146 | 1148 | 1152 | rVB2 | 111572 | 166175  | 8.23%  | 0.687% |
| 45 | 15.277 | 1152 | 1154 | 1156 | rBV  | 128158 | 242919  | 12.04% | 1.004% |
| 46 | 15.334 | 1156 | 1159 | 1164 | rVV  | 945980 | 1377316 | 68.24% | 5.690% |
| 47 | 15.471 | 1168 | 1171 | 1174 | rVB2 | 139028 | 230362  | 11.41% | 0.952% |
| 48 | 15.985 | 1213 | 1216 | 1221 | rVB2 | 179275 | 408289  | 20.23% | 1.687% |
| 49 | 16.385 | 1248 | 1251 | 1257 | rVB  | 148552 | 325598  | 16.13% | 1.345% |

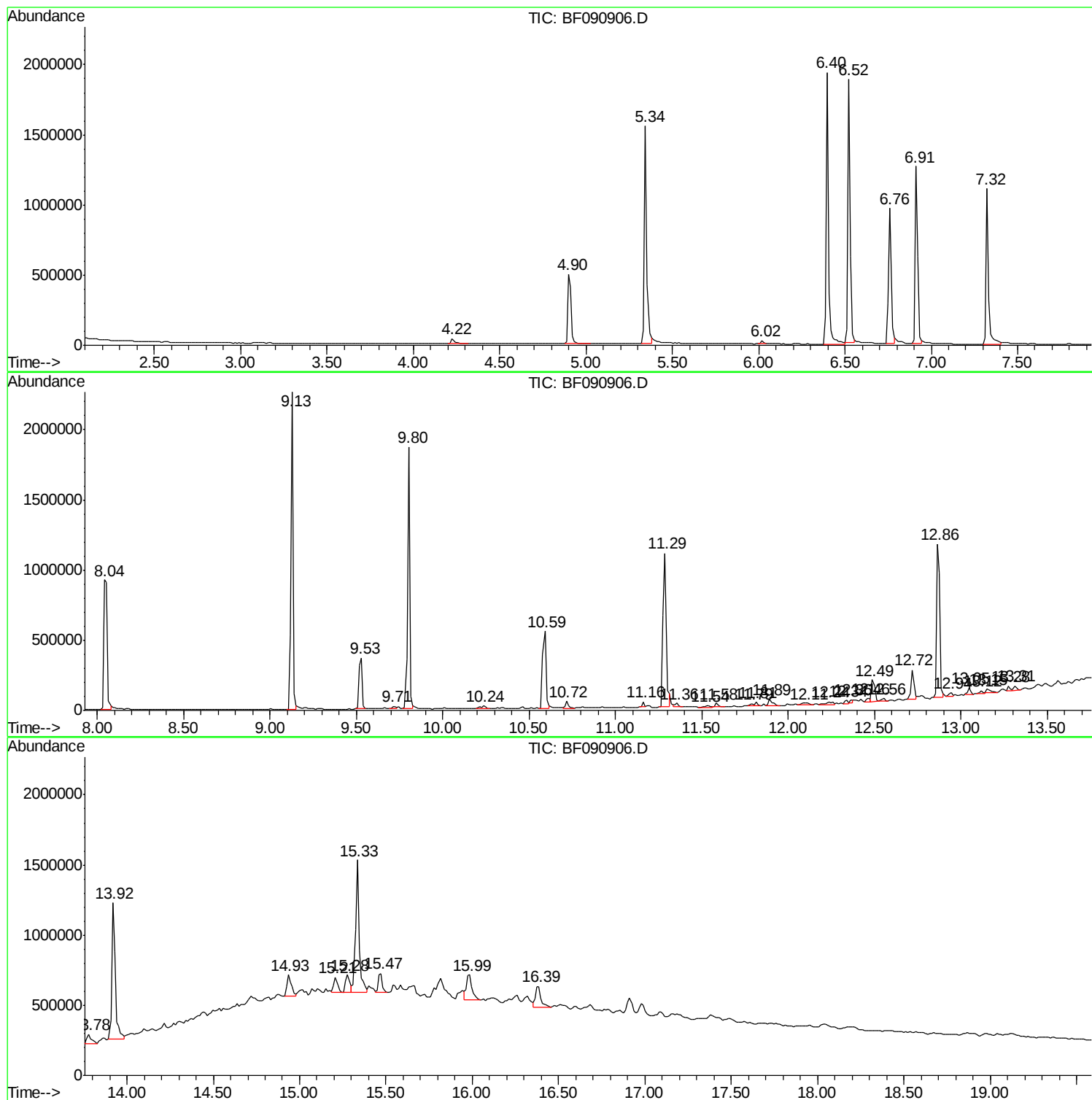
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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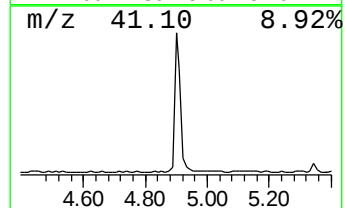
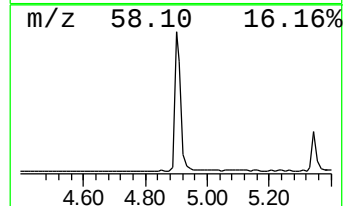
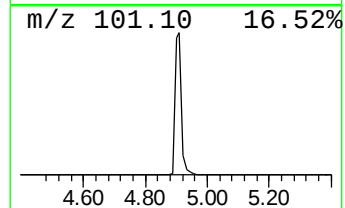
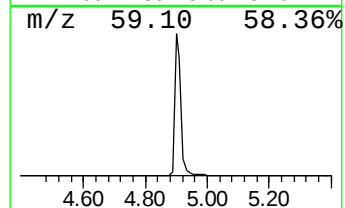
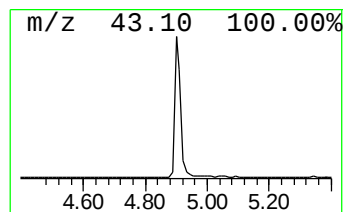
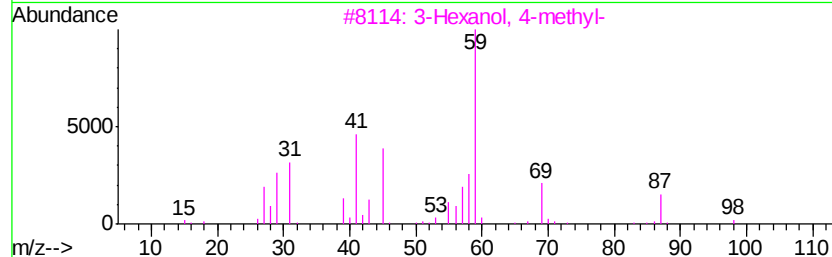
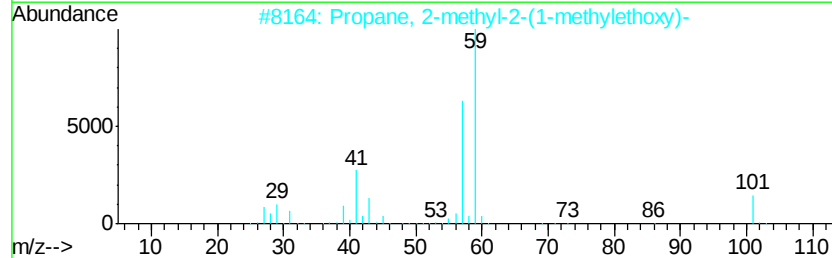
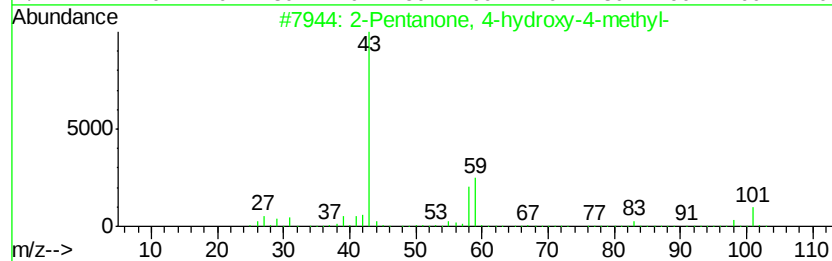
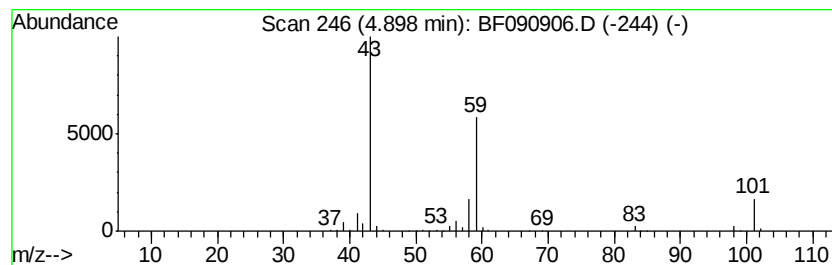
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.90 | 14.38 ng | 690240 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 42   |
| 3    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 28   |
| 5    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |



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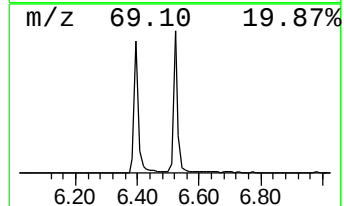
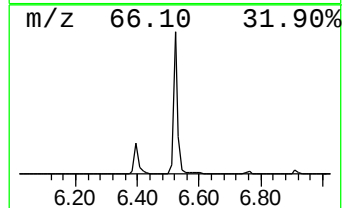
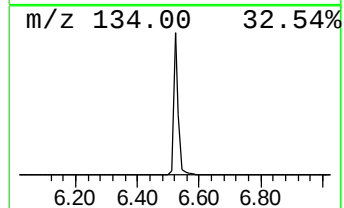
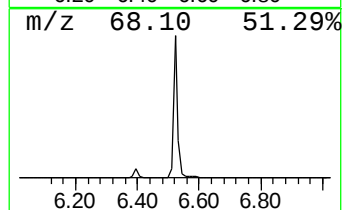
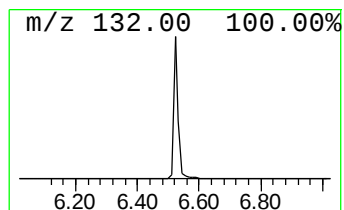
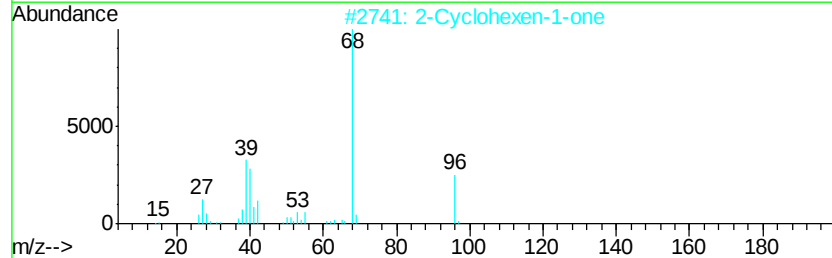
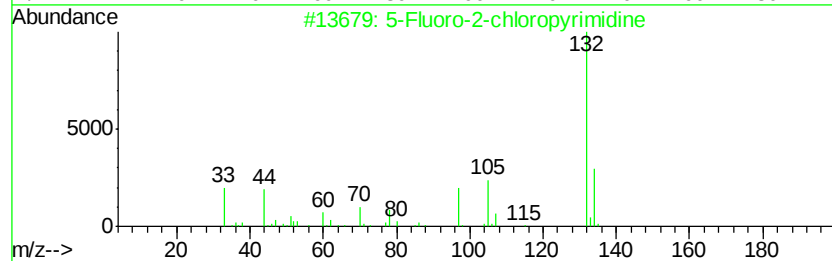
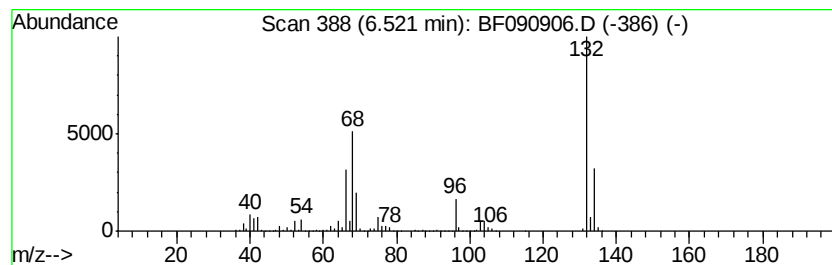
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.52 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.52 | 38.08 ng | 1827470 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 2    |    | 2-Cyclohexen-1-one               | 96  | C6H8O     | 000930-68-7  | 10   |
| 3    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 10   |
| 5    |    | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12    | 005379-20-4  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

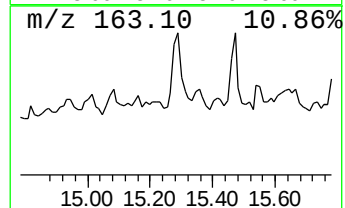
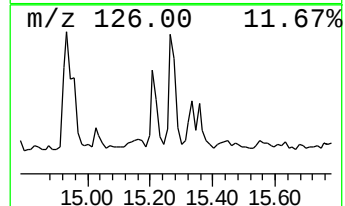
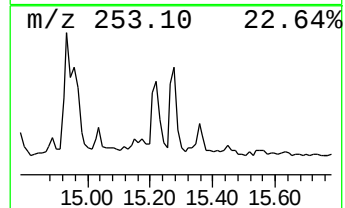
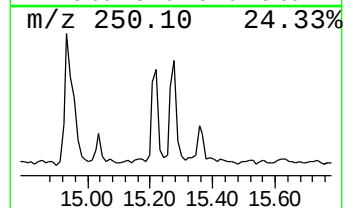
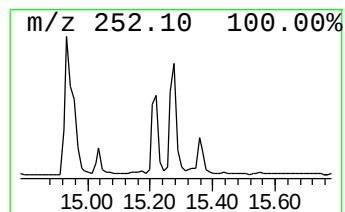
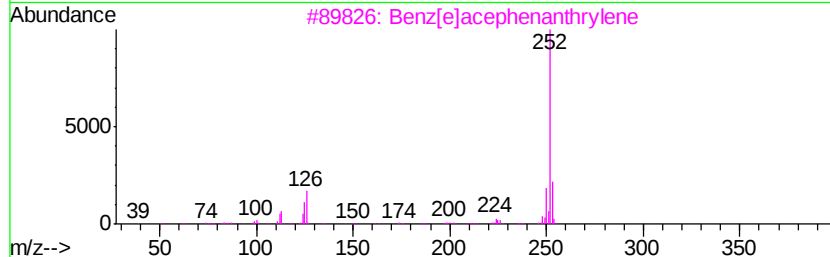
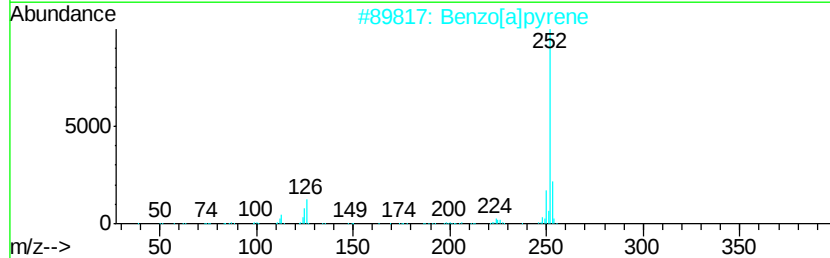
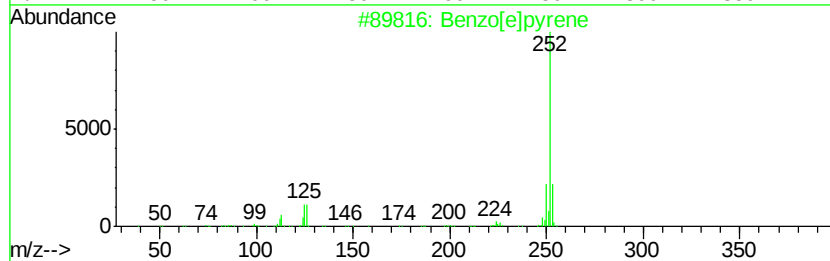
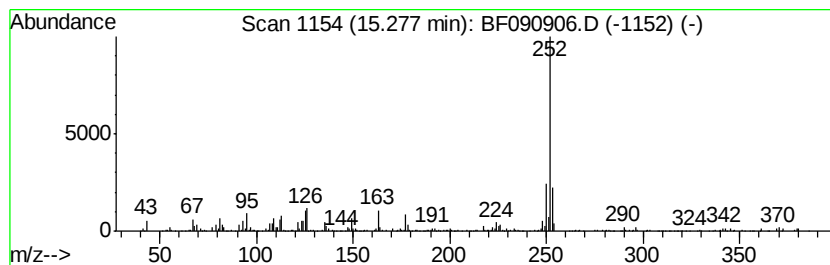
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzo[e]pyrene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.28 | 3.53 ng | 242919 | Perylene-d12     | 15.33 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Benzo[e]pyrene           |              | 252 | C20H12  | 000192-97-2 | 98   |
| 2       | Benzo[a]pyrene           |              | 252 | C20H12  | 000050-32-8 | 97   |
| 3       | Benz[e]acephenanthrylene |              | 252 | C20H12  | 000205-99-2 | 93   |
| 4       | Benzo[k]fluoranthene     |              | 252 | C20H12  | 000207-08-9 | 93   |
| 5       | Perylene                 |              | 252 | C20H12  | 000198-55-0 | 76   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

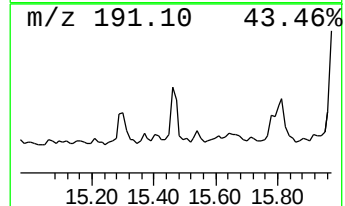
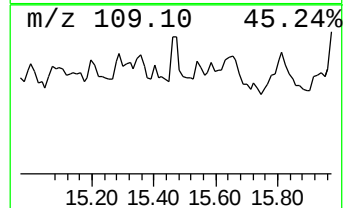
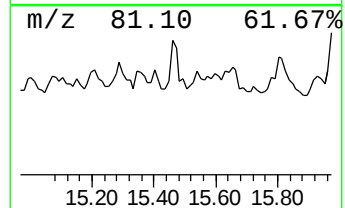
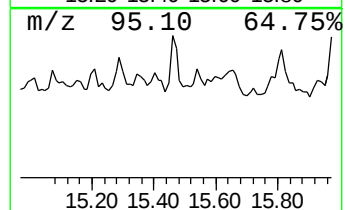
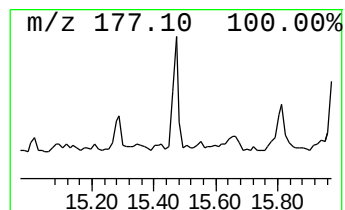
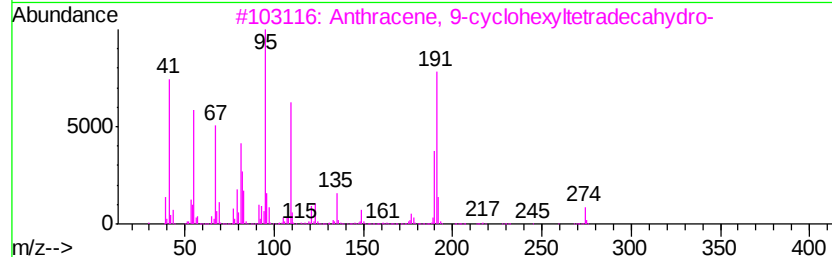
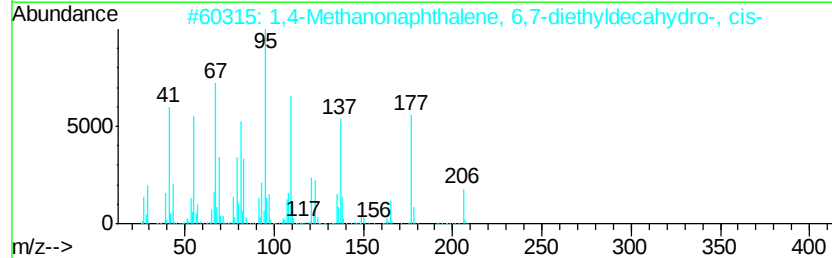
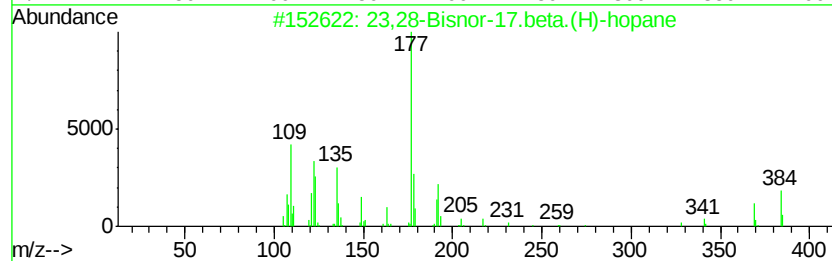
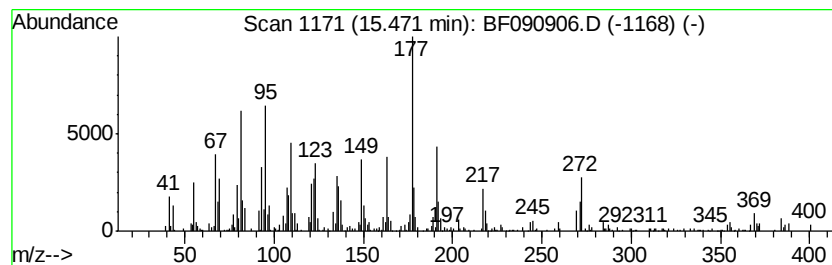
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 23,28-Bisnor-17.beta.(H)-ho... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.47 | 3.35 ng | 230362 | Perylene-d12     | 15.33 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 23,28-Bisnor-17.beta.(H)-hopane     | 384 | C28H48   | 1000101-35-0 | 91   |
| 2    |    | 1,4-Methanonaphthalene, 6,7-diet... | 206 | C15H26   | 016539-02-9  | 32   |
| 3    |    | Anthracene, 9-cyclohexyltetradec... | 274 | C20H34   | 055255-70-4  | 27   |
| 4    |    | Octamethyl-1,4-cyclohexadiene       | 192 | C14H24   | 172684-93-4  | 25   |
| 5    |    | 3,4-Dihydroxy-1,6-bis-(3-methoxy... | 354 | C20H18O6 | 1000297-24-6 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102816\  
Data File : BF090906.D  
Acq On : 28 Oct 2016 13:27  
Operator : UM/SJ  
Sample : H5423-07 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

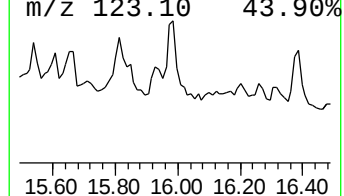
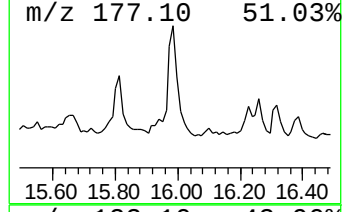
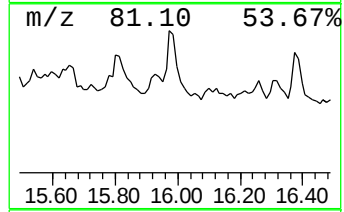
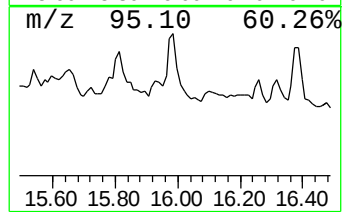
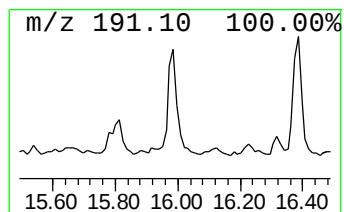
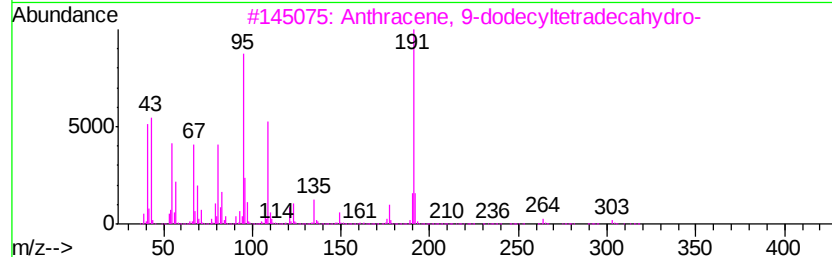
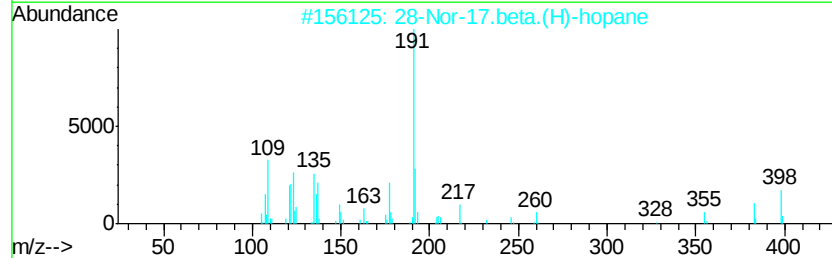
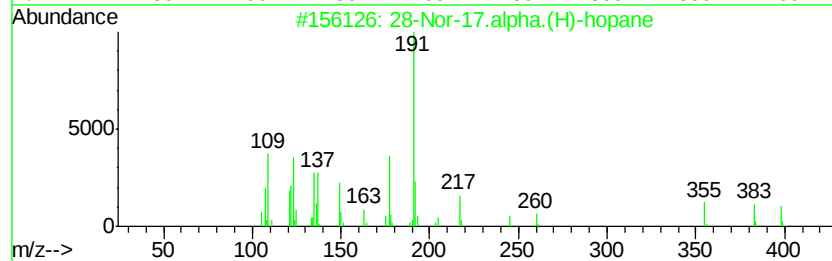
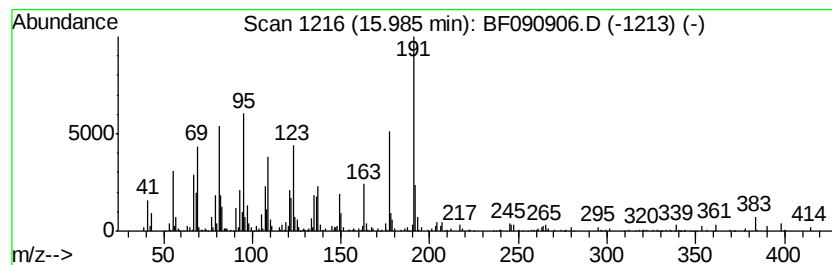
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SB-4COMP(0-16FEET)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 28-Nor-17.alpha.(H)-hopane Concentration Rank 4

| R.T.    | EstConc                              | Area         | Relative to ISTD | R.T.         |      |      |
|---------|--------------------------------------|--------------|------------------|--------------|------|------|
| 15.99   | 5.93 ng                              | 408289       | Perylene-d12     | 15.33        |      |      |
| Hit# of | 5                                    | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 28-Nor-17.alpha.(H)-hopane           | 398          | C29H50           | 053584-60-4  | 91   |      |
| 2       | 28-Nor-17.beta.(H)-hopane            | 398          | C29H50           | 036728-72-0  | 45   |      |
| 3       | Anthracene, 9-dodecyltetradeca-hy... | 360          | C26H48           | 055401-75-7  | 43   |      |
| 4       | 4,5-Dihydrothiazol-4-one, 2-(2-m...  | 222          | C10H10N2O2S      | 022476-61-5  | 22   |      |
| 5       | Vinyltris(cyclopropyl)silane         | 178          | C11H18Si         | 1000109-97-3 | 22   |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102816\  
Data File : BF090906.D  
Acq On : 28 Oct 2016 13:27  
Operator : UM/SJ  
Sample : H5423-07 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

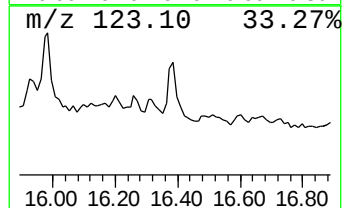
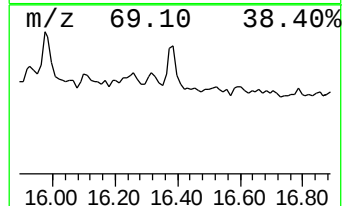
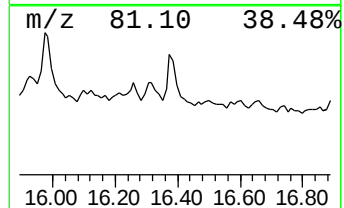
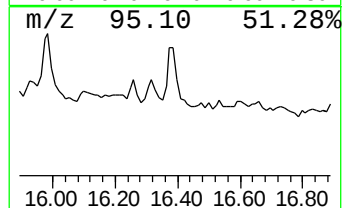
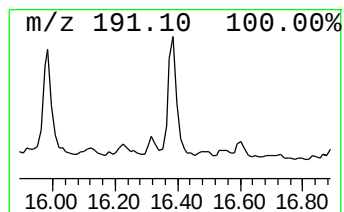
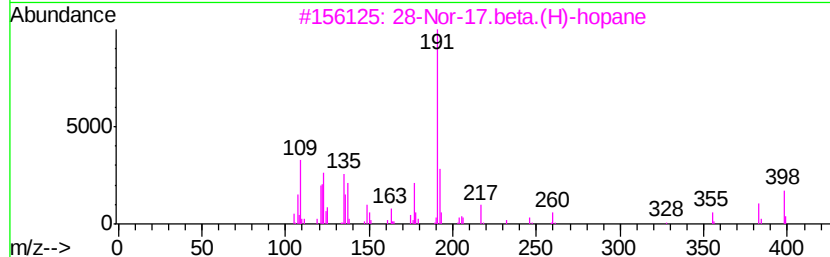
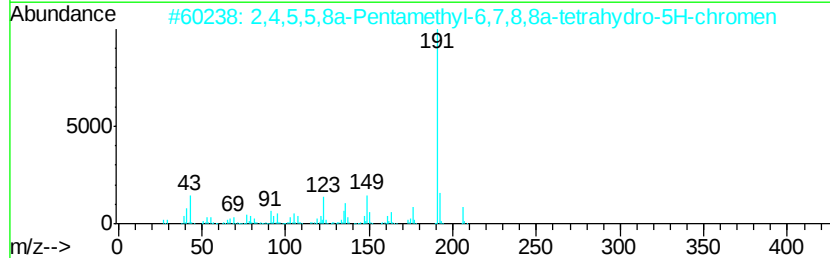
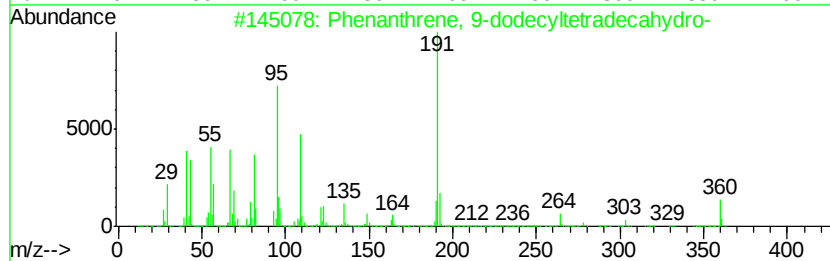
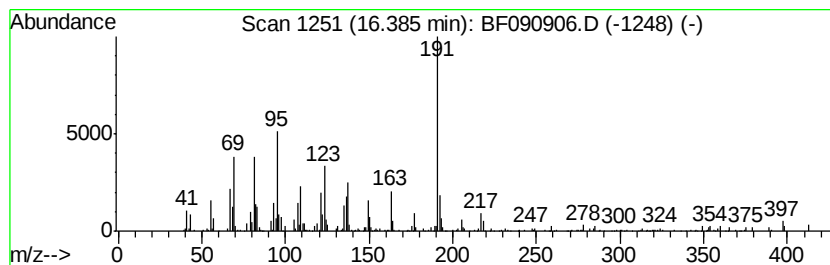
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 unknown16.39 Concentration Rank 5

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 16.39   | 4.73 ng                             | 325598       | Perylene-d12     | 15.33     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Phenanthrene, 9-dodecyltetradeca... | 360 C26H48   | 055334-01-5      | 47        |
| 2       | 2,4,5,5,8a-Pentamethyl-6,7,8,8a-... | 206 C14H22O  | 1000195-40-9     | 47        |
| 3       | 28-Nor-17.beta.(H)-hopane           | 398 C29H50   | 036728-72-0      | 45        |
| 4       | Anthracene, 9-cyclohexyltetradec... | 274 C20H34   | 055255-70-4      | 38        |
| 5       | 5H-Benzo[def]carbazole              | 191 C14H9N   | 000203-65-6      | 35        |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| 2-Pentanone, 4-hy... | 4.90  | 14.4    | ng    | 690240   | 1                     | 6.76  | 959891  | 20.0 |
| unknown6.52          | 6.52  | 38.1    | ng    | 1827470  | 1                     | 6.76  | 959891  | 20.0 |
| Benzo[e]pyrene       | 15.28 | 3.5     | ng    | 242919   | 6                     | 15.33 | 1377320 | 20.0 |
| 23,28-Bisnor-17.b... | 15.47 | 3.4     | ng    | 230362   | 6                     | 15.33 | 1377320 | 20.0 |
| 28-Nor-17.alpha.(... | 15.99 | 5.9     | ng    | 408289   | 6                     | 15.33 | 1377320 | 20.0 |
| unknown16.39         | 16.39 | 4.7     | ng    | 325598   | 6                     | 15.33 | 1377320 | 20.0 |