

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF090418\  
 Data File : BF108746.D  
 Acq On : 4 Sep 2018 17:40  
 Operator : JU/SJ  
 Sample : J4712-12 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DW-08

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083018.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         | 5.672       | 558           | 567         | 571          | rBV6     | 7718           | 25712         | 2.42%           | 0.252%        |
| 2         | 6.666       | 728           | 736         | 738          | rBV3     | 21135          | 47694         | 4.48%           | 0.467%        |
| 3         | 6.772       | 750           | 754         | 771          | rBV      | 53479          | 155903        | 14.65%          | 1.525%        |
| 4         | 6.995       | 788           | 792         | 814          | rBV      | 174100         | 408028        | 38.35%          | 3.992%        |
| 5         | 7.148       | 814           | 818         | 829          | rVV      | 99639          | 164587        | 15.47%          | 1.610%        |
| 6         | 7.595       | 886           | 894         | 896          | rBV4     | 16809          | 40834         | 3.84%           | 0.400%        |
| 7         | 8.272       | 1006          | 1009        | 1031         | rBV      | 298917         | 525111        | 49.35%          | 5.138%        |
| 8         | 9.342       | 1188          | 1191        | 1214         | rBV      | 154638         | 262228        | 24.64%          | 2.566%        |
| 9         | 9.736       | 1255          | 1258        | 1263         | rBV      | 41991          | 43573         | 4.09%           | 0.426%        |
| 10        | 10.030      | 1304          | 1308        | 1322         | rBV      | 519559         | 598903        | 56.28%          | 5.860%        |
| 11        | 10.830      | 1441          | 1444        | 1455         | rBV      | 80833          | 146991        | 13.81%          | 1.438%        |
| 12        | 11.530      | 1559          | 1563        | 1575         | rBV2     | 470153         | 808815        | 76.01%          | 7.914%        |
| 13        | 11.613      | 1575          | 1577        | 1583         | rVB      | 23772          | 36194         | 3.40%           | 0.354%        |
| 14        | 11.789      | 1602          | 1607        | 1611         | rBV2     | 14627          | 27484         | 2.58%           | 0.269%        |
| 15        | 12.036      | 1645          | 1649        | 1652         | rBV2     | 11650          | 17382         | 1.63%           | 0.170%        |
| 16        | 12.065      | 1652          | 1654        | 1659         | rVB3     | 11693          | 15356         | 1.44%           | 0.150%        |
| 17        | 12.148      | 1664          | 1668        | 1678         | rVV3     | 28574          | 56015         | 5.26%           | 0.548%        |
| 18        | 12.330      | 1696          | 1699        | 1702         | rBV2     | 7803           | 11792         | 1.11%           | 0.115%        |
| 19        | 12.365      | 1702          | 1705        | 1714         | rVB5     | 16257          | 34427         | 3.24%           | 0.337%        |
| 20        | 12.583      | 1738          | 1742        | 1745         | rBV3     | 21171          | 34878         | 3.28%           | 0.341%        |
| 21        | 12.677      | 1755          | 1758        | 1767         | rBV3     | 12465          | 25608         | 2.41%           | 0.251%        |
| 22        | 12.754      | 1767          | 1771        | 1786         | rBV      | 549972         | 764927        | 71.89%          | 7.484%        |
| 23        | 12.907      | 1794          | 1797        | 1803         | rVB      | 18862          | 26581         | 2.50%           | 0.260%        |
| 24        | 12.983      | 1803          | 1810        | 1823         | rBV      | 514795         | 799277        | 75.12%          | 7.820%        |
| 25        | 13.112      | 1828          | 1832        | 1838         | rBV      | 328552         | 405238        | 38.08%          | 3.965%        |
| 26        | 13.195      | 1843          | 1846        | 1852         | rVB3     | 30054          | 55968         | 5.26%           | 0.548%        |
| 27        | 13.289      | 1859          | 1862        | 1863         | rBV2     | 24890          | 25792         | 2.42%           | 0.252%        |
| 28        | 13.312      | 1863          | 1866        | 1870         | rVV      | 70857          | 80776         | 7.59%           | 0.790%        |
| 29        | 13.377      | 1874          | 1877        | 1880         | rBV      | 51369          | 55668         | 5.23%           | 0.545%        |
| 30        | 13.436      | 1885          | 1887        | 1891         | rVB2     | 30793          | 33771         | 3.17%           | 0.330%        |
| 31        | 13.512      | 1897          | 1900        | 1902         | rBV      | 23422          | 26961         | 2.53%           | 0.264%        |
| 32        | 13.542      | 1902          | 1905        | 1913         | rVB4     | 39636          | 55528         | 5.22%           | 0.543%        |
| 33        | 13.830      | 1951          | 1954        | 1958         | rBV      | 29470          | 42862         | 4.03%           | 0.419%        |
| 34        | 13.936      | 1969          | 1972        | 1975         | rBV      | 74631          | 106042        | 9.97%           | 1.038%        |

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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DW-08

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083018.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 13.989 | 1979 | 1981 | 1986 | rVV2 | 37068  | 62210   | 5.85%   | 0.609%  |
| 36 | 14.189 | 2010 | 2015 | 2018 | rBV2 | 690648 | 1064062 | 100.00% | 10.411% |
| 37 | 14.212 | 2018 | 2019 | 2030 | rVB  | 428036 | 438673  | 41.23%  | 4.292%  |
| 38 | 14.295 | 2030 | 2033 | 2039 | rBV2 | 86921  | 117815  | 11.07%  | 1.153%  |
| 39 | 15.277 | 2196 | 2200 | 2212 | rVB  | 378820 | 863432  | 81.14%  | 8.448%  |
| 40 | 15.606 | 2252 | 2256 | 2264 | rBV  | 192124 | 308954  | 29.04%  | 3.023%  |
| 41 | 15.677 | 2264 | 2268 | 2275 | rBV  | 206864 | 404006  | 37.97%  | 3.953%  |
| 42 | 15.748 | 2276 | 2280 | 2283 | rBV  | 225271 | 326487  | 30.68%  | 3.194%  |
| 43 | 17.359 | 2549 | 2554 | 2565 | rVB2 | 147050 | 353320  | 33.20%  | 3.457%  |
| 44 | 17.859 | 2634 | 2639 | 2653 | rVB  | 105801 | 314576  | 29.56%  | 3.078%  |

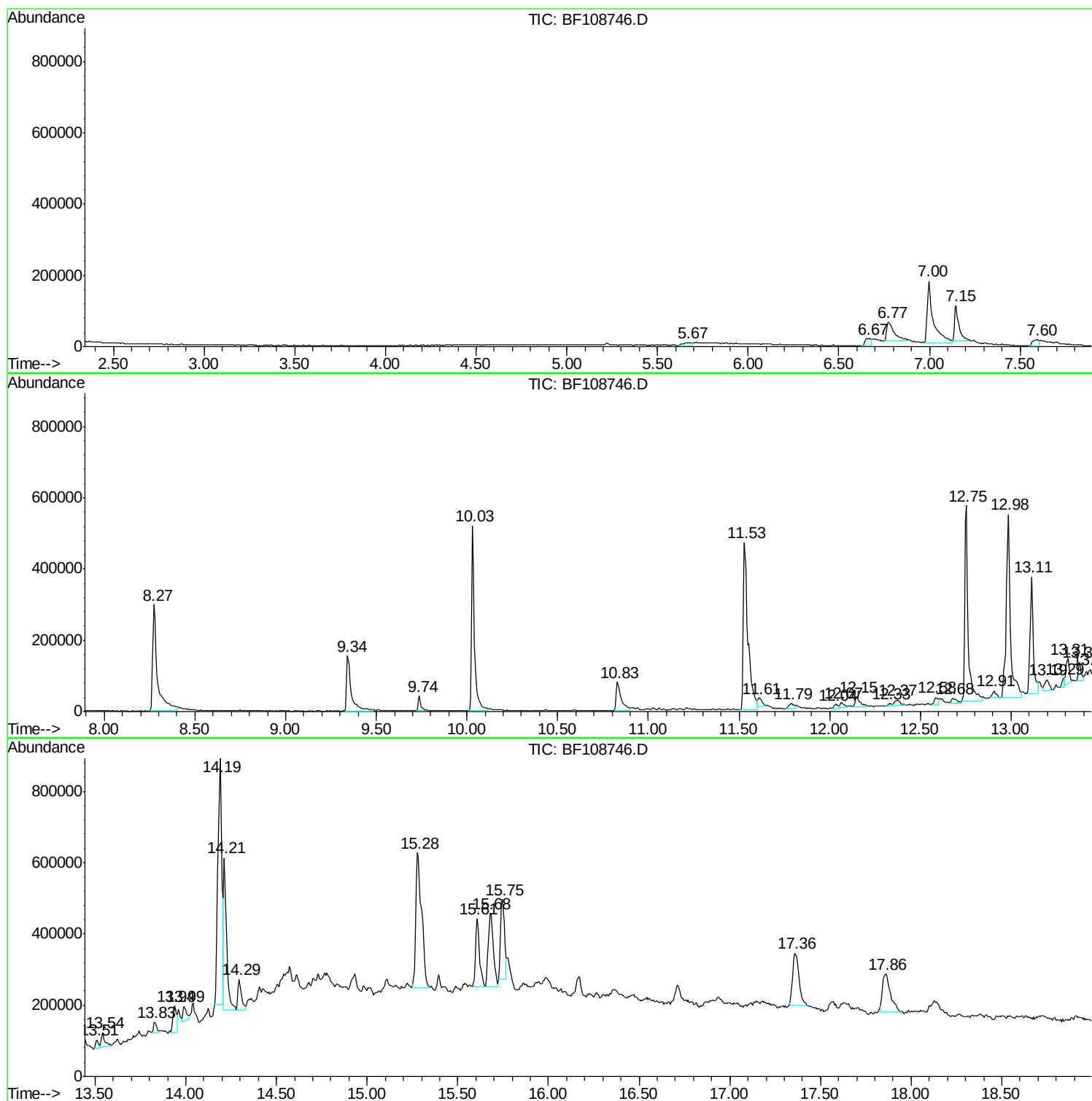
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Operator : JU/SJ  
Sample : J4712-12 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

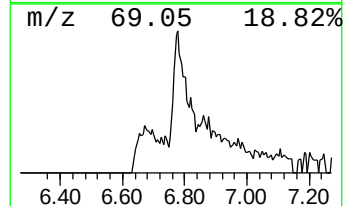
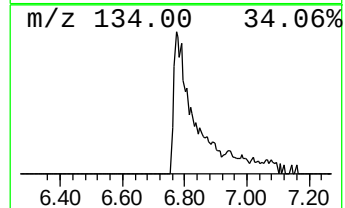
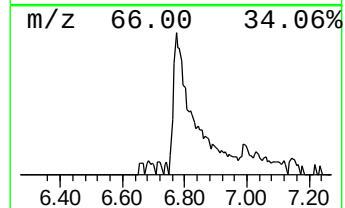
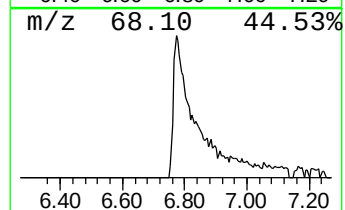
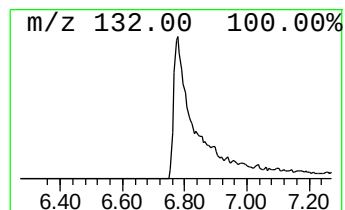
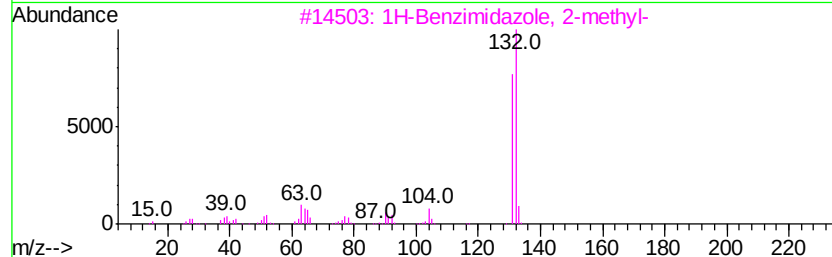
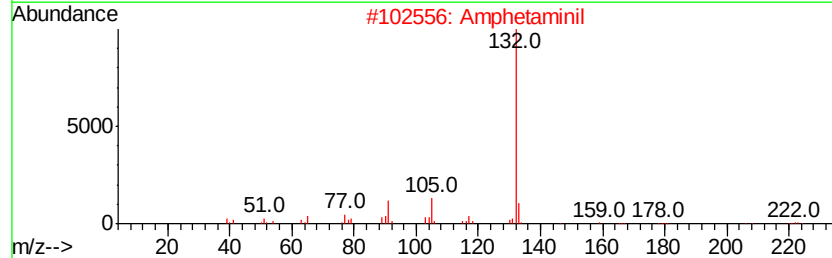
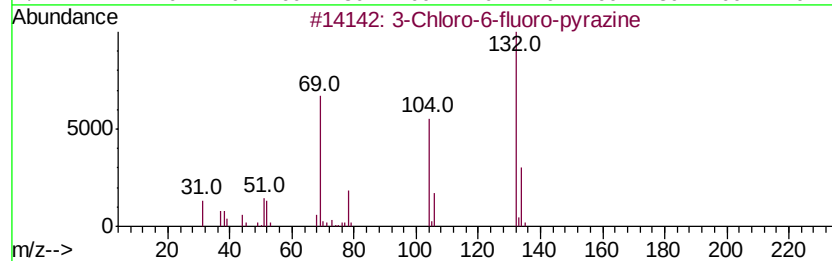
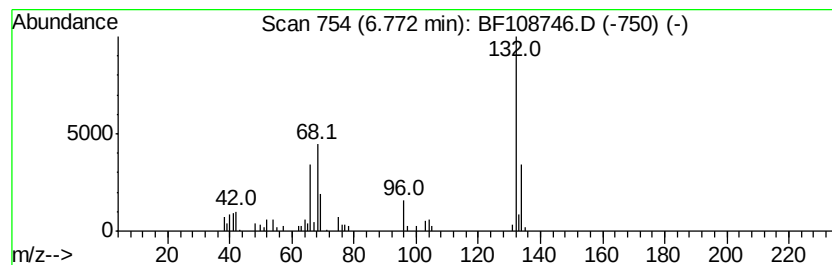
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.77 Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.77 | 7.64 ng | 155903 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |
| 3    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 10   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 9    |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



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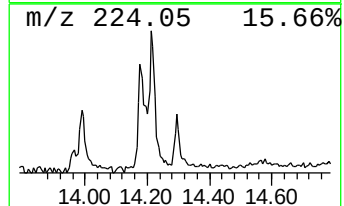
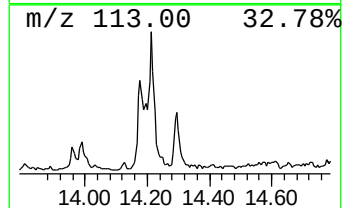
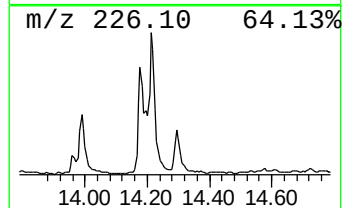
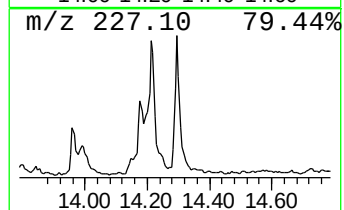
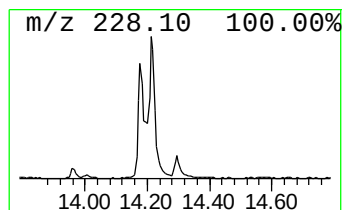
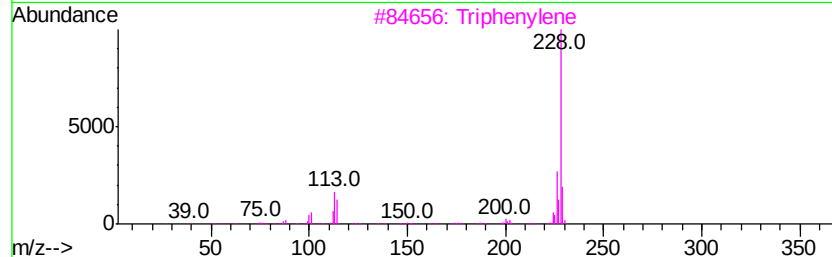
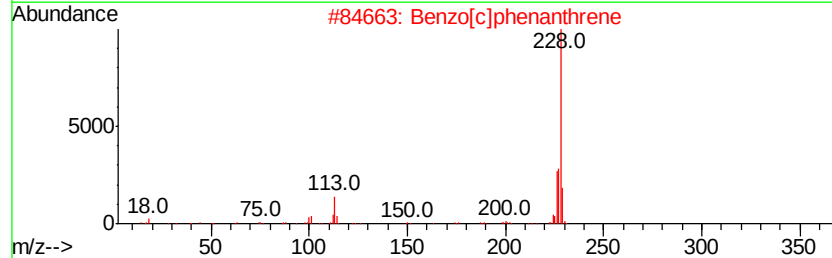
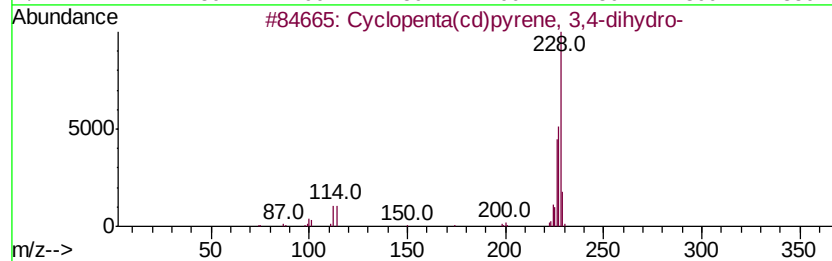
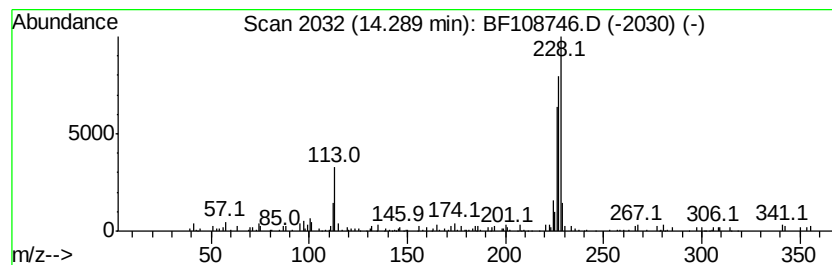
Instrument :  
BNA\_F  
ClientSampleId :  
DW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 14.29     | 2.21 ng                             | 117815 | Chrysene-d12     | 14.19        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cvclopenta(cd)pvrene, 3,4-dihydro-  | 228    | C18H12           | 025732-74-5  | 55   |
| 2         | Benzo[c]phenanthrene                | 228    | C18H12           | 000195-19-7  | 49   |
| 3         | Triphenylene                        | 228    | C18H12           | 000217-59-4  | 38   |
| 4         | Isothiazol-5-amine, 4-bromo-3-ch... | 226    | C4H4BrClN2S      | 1000272-59-9 | 38   |
| 5         | Chrysene                            | 228    | C18H12           | 000218-01-9  | 35   |



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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

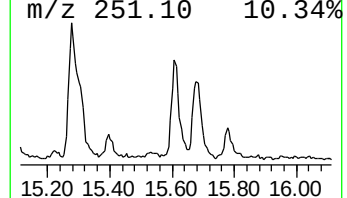
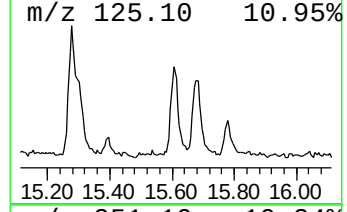
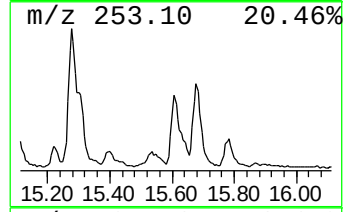
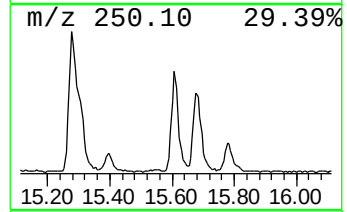
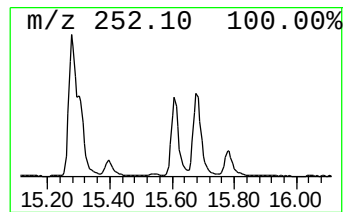
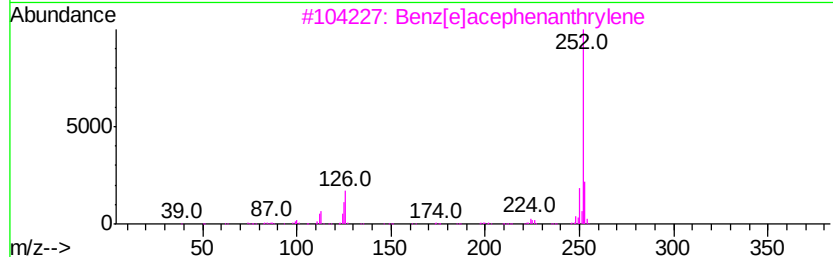
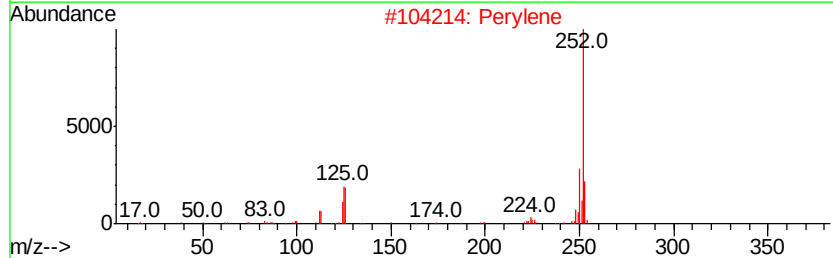
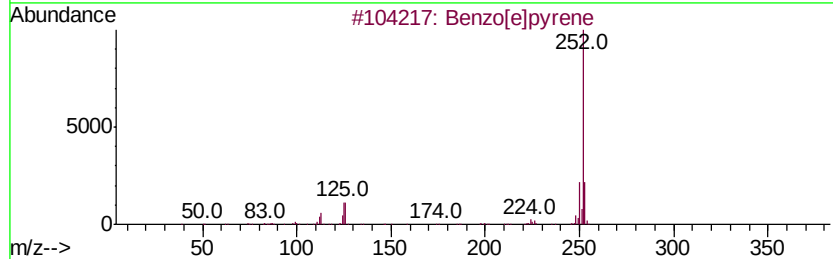
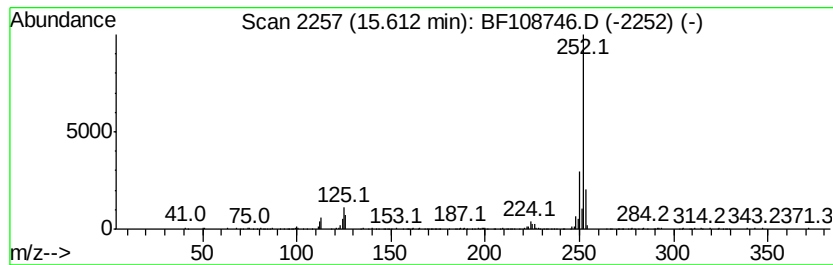
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzo[e]pyrene Concentration Rank 1

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.61 | 18.93 ng | 308954 | Perylene-d12     | 15.75 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 95   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 94   |
| 5    |    | Benzo[j]fluoranthene      | 252 | C20H12  | 000205-82-3 | 94   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.77          | 6.77  | 7.6     | ng    | 155903   | 1                     | 7.00  | 408028  | 20.0 |
| Cyclopenta(cd)pyr... | 14.29 | 2.2     | ng    | 117815   | 5                     | 14.19 | 1064060 | 20.0 |
| Benzo[e]pyrene       | 15.61 | 18.9    | ng    | 308954   | 6                     | 15.75 | 326487  | 20.0 |