

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081917\  
 Data File : BF097894.D  
 Acq On : 19 Aug 2017 22:25  
 Operator : SJ/JU  
 Sample : I4844-01 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-081617

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-BF081517.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         | 4.940       | 482           | 485         | 494          | rVB      | 65115          | 64632         | 5.35%           | 0.572%        |
| 2         | 5.357       | 552           | 556         | 561          | rBV      | 644580         | 559359        | 46.32%          | 4.948%        |
| 3         | 6.381       | 727           | 730         | 738          | rBV      | 681109         | 623394        | 51.62%          | 5.515%        |
| 4         | 6.522       | 751           | 754         | 758          | rBV      | 727055         | 606720        | 50.24%          | 5.367%        |
| 5         | 6.763       | 791           | 795         | 798          | rBV      | 1139339        | 974679        | 80.71%          | 8.622%        |
| 6         | 6.916       | 817           | 821         | 824          | rBV      | 571127         | 452975        | 37.51%          | 4.007%        |
| 7         | 7.316       | 886           | 889         | 893          | rBV      | 401182         | 342029        | 28.32%          | 3.026%        |
| 8         | 8.045       | 1009          | 1013        | 1016         | rBV      | 1490097        | 1207635       | 100.00%         | 10.683%       |
| 9         | 9.116       | 1192          | 1195        | 1199         | rBV      | 790145         | 628901        | 52.08%          | 5.563%        |
| 10        | 9.510       | 1259          | 1262        | 1267         | rBV      | 85695          | 75464         | 6.25%           | 0.668%        |
| 11        | 9.798       | 1307          | 1311        | 1314         | rBV      | 1241531        | 1108290       | 91.77%          | 9.804%        |
| 12        | 9.827       | 1314          | 1316        | 1320         | rVB      | 25003          | 20546         | 1.70%           | 0.182%        |
| 13        | 10.233      | 1382          | 1385        | 1392         | rVB3     | 15924          | 15299         | 1.27%           | 0.135%        |
| 14        | 10.339      | 1401          | 1403        | 1410         | rVB      | 19685          | 19261         | 1.59%           | 0.170%        |
| 15        | 10.574      | 1440          | 1443        | 1448         | rBV      | 269601         | 226920        | 18.79%          | 2.007%        |
| 16        | 10.704      | 1463          | 1465        | 1471         | rVB      | 23023          | 24039         | 1.99%           | 0.213%        |
| 17        | 11.151      | 1539          | 1541        | 1543         | rBV      | 19608          | 15504         | 1.28%           | 0.137%        |
| 18        | 11.174      | 1543          | 1545        | 1552         | rVB2     | 12292          | 14892         | 1.23%           | 0.132%        |
| 19        | 11.274      | 1558          | 1562        | 1565         | rBV      | 1027728        | 901532        | 74.65%          | 7.975%        |
| 20        | 11.298      | 1565          | 1566        | 1569         | rVV      | 140582         | 80768         | 6.69%           | 0.714%        |
| 21        | 11.351      | 1571          | 1575        | 1578         | rVB      | 45280          | 37993         | 3.15%           | 0.336%        |
| 22        | 11.774      | 1645          | 1647        | 1650         | rBV      | 21186          | 18865         | 1.56%           | 0.167%        |
| 23        | 11.804      | 1650          | 1652        | 1655         | rVB      | 32743          | 23253         | 1.93%           | 0.206%        |
| 24        | 11.886      | 1663          | 1666        | 1669         | rBV      | 46006          | 47096         | 3.90%           | 0.417%        |
| 25        | 12.321      | 1737          | 1740        | 1743         | rBV      | 20124          | 20786         | 1.72%           | 0.184%        |
| 26        | 12.363      | 1743          | 1747        | 1748         | rVV3     | 16168          | 17527         | 1.45%           | 0.155%        |
| 27        | 12.404      | 1752          | 1754        | 1759         | rVB5     | 12317          | 15269         | 1.26%           | 0.135%        |
| 28        | 12.486      | 1763          | 1768        | 1771         | rBV      | 215819         | 205007        | 16.98%          | 1.814%        |
| 29        | 12.710      | 1800          | 1806        | 1809         | rBV      | 209273         | 213320        | 17.66%          | 1.887%        |
| 30        | 12.857      | 1828          | 1831        | 1837         | rVB      | 471187         | 394685        | 32.68%          | 3.491%        |
| 31        | 12.933      | 1838          | 1844        | 1848         | rBV4     | 17141          | 31947         | 2.65%           | 0.283%        |
| 32        | 13.021      | 1855          | 1859        | 1860         | rBV4     | 13628          | 18585         | 1.54%           | 0.164%        |
| 33        | 13.039      | 1860          | 1862        | 1865         | rVB2     | 47949          | 38734         | 3.21%           | 0.343%        |
| 34        | 13.104      | 1870          | 1873        | 1876         | rVB2     | 42997          | 37969         | 3.14%           | 0.336%        |

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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-BF081517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.139 | 1876 | 1879 | 1882 | rBV  | 31114  | 34401  | 2.85%  | 0.304% |
| 36 | 13.233 | 1892 | 1895 | 1898 | rVB  | 15995  | 15197  | 1.26%  | 0.134% |
| 37 | 13.263 | 1898 | 1900 | 1902 | rBV  | 17919  | 14520  | 1.20%  | 0.128% |
| 38 | 13.439 | 1928 | 1930 | 1932 | rBV3 | 18617  | 16913  | 1.40%  | 0.150% |
| 39 | 13.545 | 1946 | 1948 | 1953 | rVB2 | 16233  | 21136  | 1.75%  | 0.187% |
| 40 | 13.657 | 1962 | 1967 | 1970 | rBV2 | 25109  | 42143  | 3.49%  | 0.373% |
| 41 | 13.768 | 1981 | 1986 | 1988 | rBV2 | 21933  | 31781  | 2.63%  | 0.281% |
| 42 | 13.910 | 2002 | 2010 | 2012 | rBV  | 866860 | 962930 | 79.74% | 8.518% |
| 43 | 13.933 | 2012 | 2014 | 2020 | rVB  | 121996 | 116169 | 9.62%  | 1.028% |
| 44 | 14.010 | 2025 | 2027 | 2030 | rVV3 | 20608  | 20933  | 1.73%  | 0.185% |
| 45 | 14.262 | 2067 | 2070 | 2071 | rBV2 | 18339  | 19762  | 1.64%  | 0.175% |
| 46 | 14.292 | 2073 | 2075 | 2078 | rVB  | 28377  | 25578  | 2.12%  | 0.226% |
| 47 | 14.386 | 2089 | 2091 | 2094 | rVB4 | 27311  | 22662  | 1.88%  | 0.200% |
| 48 | 14.921 | 2179 | 2182 | 2191 | rVB  | 85846  | 170845 | 14.15% | 1.511% |
| 49 | 15.209 | 2228 | 2231 | 2237 | rVB  | 59216  | 61388  | 5.08%  | 0.543% |
| 50 | 15.268 | 2238 | 2241 | 2244 | rBV2 | 66381  | 66360  | 5.50%  | 0.587% |
| 51 | 15.333 | 2247 | 2252 | 2255 | rBV  | 471982 | 577832 | 47.85% | 5.112% |

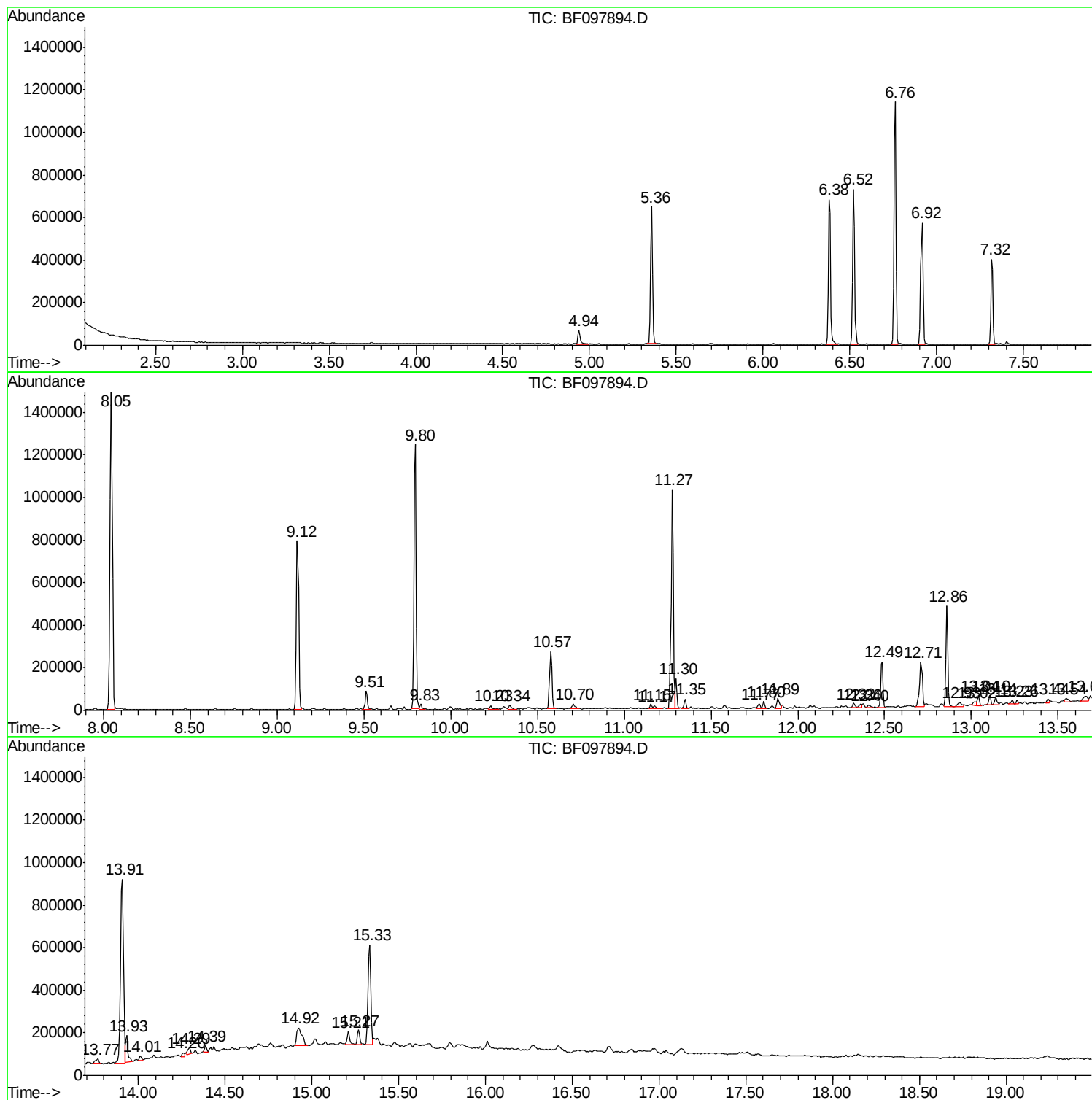
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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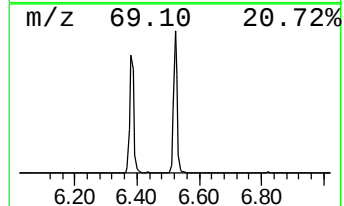
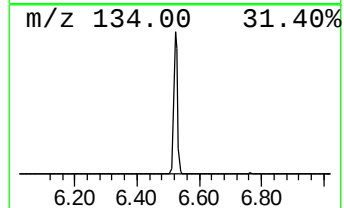
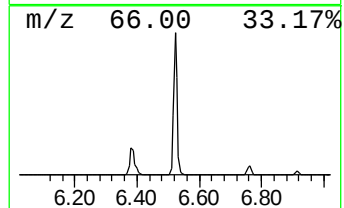
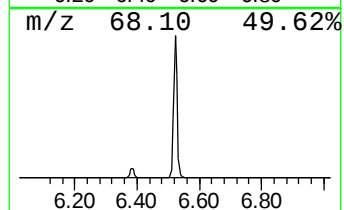
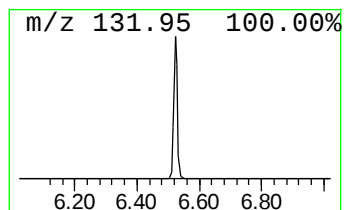
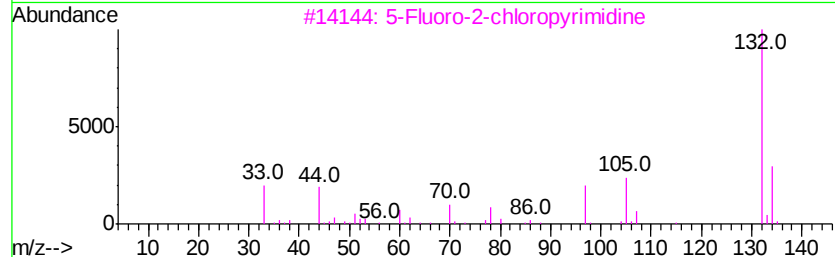
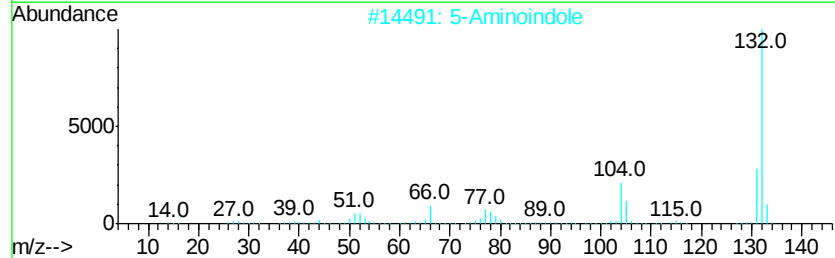
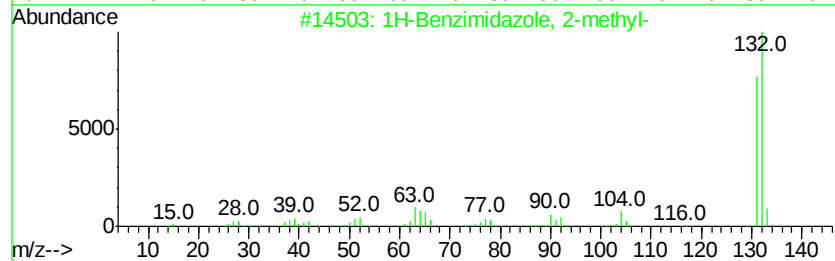
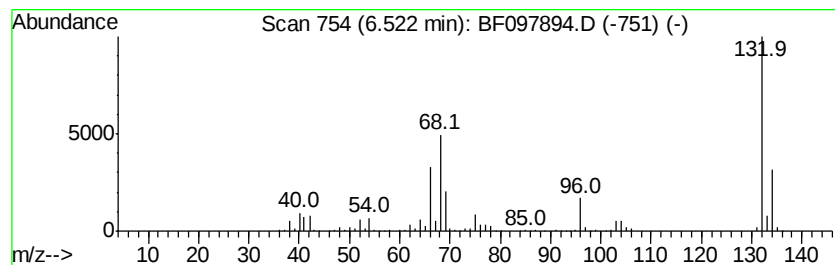
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.52 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.52 | 12.45 ng | 606720 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 22   |
| 3    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    | Cyclopropanamine, 1-phenyl-         | 133 | C9H11N    | 1000351-26-2 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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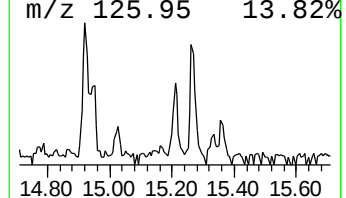
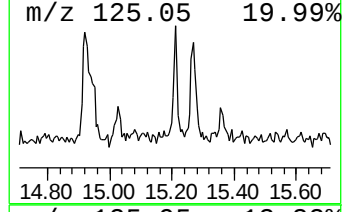
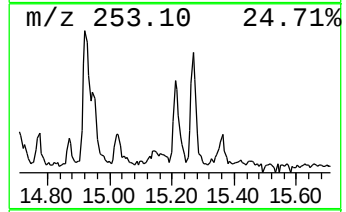
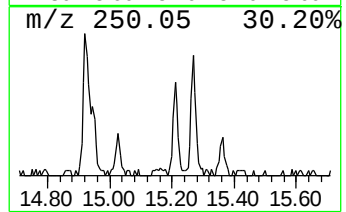
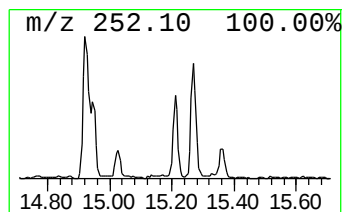
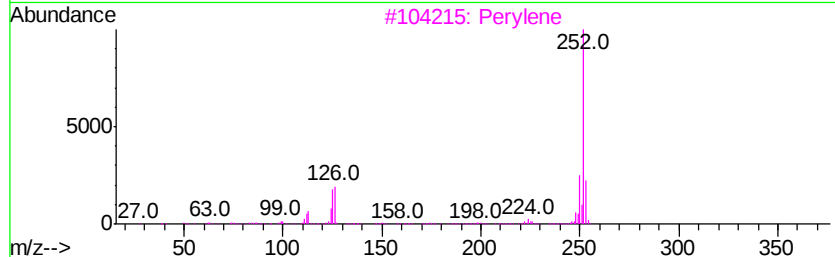
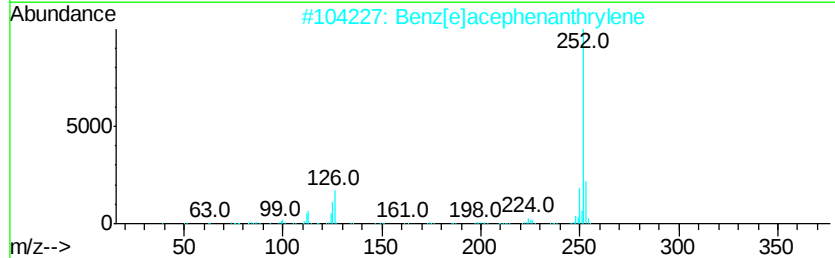
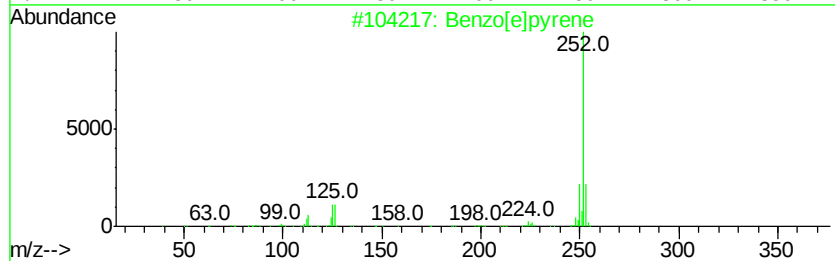
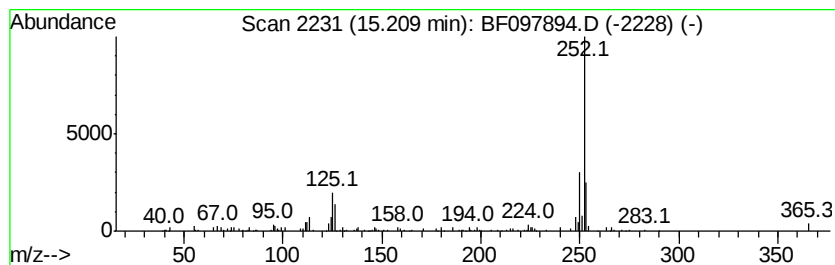
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Peak Number 3 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.21 | 2.12 ng | 61388 | Perylene-d12     | 15.33 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 96   |
| 2       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 3       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 93   |
| 4       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 89   |
| 5       |   | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 89   |



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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown6.52      | 6.52  | 12.4    | ng    | 606720   | 1                     | 6.76  | 974679 | 20.0 |
| Benzo[e]pyrene   | 15.21 | 2.1     | ng    | 61388    | 6                     | 15.33 | 577832 | 20.0 |