

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF092518\  
 Data File : BF109304.D  
 Acq On : 25 Sep 2018 23:27  
 Operator : JU/SJ  
 Sample : J5044-02  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID02-COMP-092018

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-BF092218.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         | 4.898       | 474           | 478         | 487          | rVB      | 43083          | 55102         | 3.04%           | 0.299%        |
| 2         | 5.316       | 545           | 549         | 553          | rBV      | 1655570        | 1518434       | 83.86%          | 8.228%        |
| 3         | 6.345       | 719           | 724         | 736          | rBV      | 1803011        | 1667637       | 92.10%          | 9.036%        |
| 4         | 6.475       | 742           | 746         | 750          | rBV      | 1825627        | 1606092       | 88.70%          | 8.703%        |
| 5         | 6.710       | 782           | 786         | 789          | rBV      | 804044         | 665066        | 36.73%          | 3.604%        |
| 6         | 6.863       | 808           | 812         | 816          | rBV      | 1567476        | 1290751       | 71.29%          | 6.994%        |
| 7         | 7.269       | 876           | 881         | 884          | rBV      | 1093849        | 980922        | 54.18%          | 5.315%        |
| 8         | 7.992       | 1000          | 1004        | 1007         | rBV      | 916914         | 836879        | 46.22%          | 4.535%        |
| 9         | 9.063       | 1182          | 1186        | 1190         | rBV      | 2014820        | 1810628       | 100.00%         | 9.811%        |
| 10        | 9.457       | 1250          | 1253        | 1259         | rBV      | 436126         | 329803        | 18.21%          | 1.787%        |
| 11        | 9.739       | 1297          | 1301        | 1305         | rBV      | 1030657        | 830263        | 45.85%          | 4.499%        |
| 12        | 10.521      | 1430          | 1434        | 1445         | rBV      | 1002606        | 825042        | 45.57%          | 4.470%        |
| 13        | 11.216      | 1548          | 1552        | 1554         | rBV      | 908809         | 732242        | 40.44%          | 3.968%        |
| 14        | 11.239      | 1554          | 1556        | 1559         | rVV      | 242626         | 179724        | 9.93%           | 0.974%        |
| 15        | 11.292      | 1559          | 1565        | 1568         | rVB      | 45509          | 43808         | 2.42%           | 0.237%        |
| 16        | 11.716      | 1633          | 1637        | 1639         | rBV      | 33617          | 25598         | 1.41%           | 0.139%        |
| 17        | 11.745      | 1639          | 1642        | 1646         | rVB      | 48641          | 44026         | 2.43%           | 0.239%        |
| 18        | 11.827      | 1652          | 1656        | 1658         | rBV      | 34465          | 36024         | 1.99%           | 0.195%        |
| 19        | 11.851      | 1658          | 1660        | 1664         | rVB      | 23926          | 20282         | 1.12%           | 0.110%        |
| 20        | 12.263      | 1724          | 1730        | 1733         | rBV      | 21273          | 23682         | 1.31%           | 0.128%        |
| 21        | 12.345      | 1742          | 1744        | 1750         | rVB2     | 27965          | 25400         | 1.40%           | 0.138%        |
| 22        | 12.421      | 1753          | 1757        | 1761         | rVB      | 382822         | 305541        | 16.87%          | 1.656%        |
| 23        | 12.651      | 1790          | 1796        | 1799         | rBV2     | 304918         | 319957        | 17.67%          | 1.734%        |
| 24        | 12.698      | 1801          | 1804        | 1811         | rVB3     | 16749          | 23756         | 1.31%           | 0.129%        |
| 25        | 12.798      | 1817          | 1821        | 1824         | rVB      | 1667675        | 1446940       | 79.91%          | 7.840%        |
| 26        | 12.874      | 1827          | 1834        | 1837         | rBV2     | 22770          | 37300         | 2.06%           | 0.202%        |
| 27        | 12.974      | 1849          | 1851        | 1854         | rVB      | 27163          | 27373         | 1.51%           | 0.148%        |
| 28        | 13.045      | 1858          | 1863        | 1865         | rBV      | 22178          | 21789         | 1.20%           | 0.118%        |
| 29        | 13.080      | 1865          | 1869        | 1874         | rVV      | 43593          | 42279         | 2.34%           | 0.229%        |
| 30        | 13.280      | 1899          | 1903        | 1910         | rVB3     | 46344          | 45567         | 2.52%           | 0.247%        |
| 31        | 13.480      | 1934          | 1937        | 1942         | rVB      | 34495          | 33209         | 1.83%           | 0.180%        |
| 32        | 13.592      | 1951          | 1956        | 1958         | rBV2     | 26745          | 30298         | 1.67%           | 0.164%        |
| 33        | 13.621      | 1958          | 1961        | 1963         | rVV      | 28554          | 27407         | 1.51%           | 0.149%        |
| 34        | 13.645      | 1963          | 1965        | 1969         | rVB2     | 19162          | 24633         | 1.36%           | 0.133%        |

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Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GRID02-COMP-092018

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-BF092218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.721 | 1974 | 1978 | 1983 | rBV6 | 24625  | 51717  | 2.86%  | 0.280% |
| 36 | 13.839 | 1994 | 1998 | 2001 | rBV2 | 809391 | 885859 | 48.93% | 4.800% |
| 37 | 13.868 | 2001 | 2003 | 2005 | rVB  | 140743 | 109046 | 6.02%  | 0.591% |
| 38 | 13.951 | 2011 | 2017 | 2020 | rBV3 | 24167  | 39230  | 2.17%  | 0.213% |
| 39 | 14.227 | 2061 | 2064 | 2067 | rVB  | 31642  | 26490  | 1.46%  | 0.144% |
| 40 | 14.262 | 2067 | 2070 | 2073 | rVB2 | 22915  | 20309  | 1.12%  | 0.110% |
| 41 | 14.321 | 2073 | 2080 | 2083 | rBV5 | 26721  | 46098  | 2.55%  | 0.250% |
| 42 | 14.604 | 2125 | 2128 | 2130 | rBV3 | 19477  | 23892  | 1.32%  | 0.129% |
| 43 | 14.621 | 2130 | 2131 | 2138 | rVB2 | 26737  | 22672  | 1.25%  | 0.123% |
| 44 | 14.692 | 2139 | 2143 | 2147 | rBV  | 120619 | 117117 | 6.47%  | 0.635% |
| 45 | 14.851 | 2165 | 2170 | 2172 | rBV  | 121184 | 177362 | 9.80%  | 0.961% |
| 46 | 14.939 | 2182 | 2185 | 2190 | rVB3 | 47452  | 61541  | 3.40%  | 0.333% |
| 47 | 15.127 | 2213 | 2217 | 2223 | rVB  | 73759  | 92670  | 5.12%  | 0.502% |
| 48 | 15.186 | 2223 | 2227 | 2232 | rBV  | 94516  | 108809 | 6.01%  | 0.590% |
| 49 | 15.245 | 2232 | 2237 | 2241 | rBV  | 462855 | 535325 | 29.57% | 2.901% |
| 50 | 15.692 | 2310 | 2313 | 2318 | rVB2 | 26769  | 33048  | 1.83%  | 0.179% |
| 51 | 16.156 | 2389 | 2392 | 2396 | rBV5 | 15019  | 20547  | 1.13%  | 0.111% |
| 52 | 16.592 | 2461 | 2466 | 2472 | rVB2 | 45079  | 90513  | 5.00%  | 0.490% |
| 53 | 16.998 | 2529 | 2535 | 2540 | rBV2 | 31120  | 59659  | 3.29%  | 0.323% |

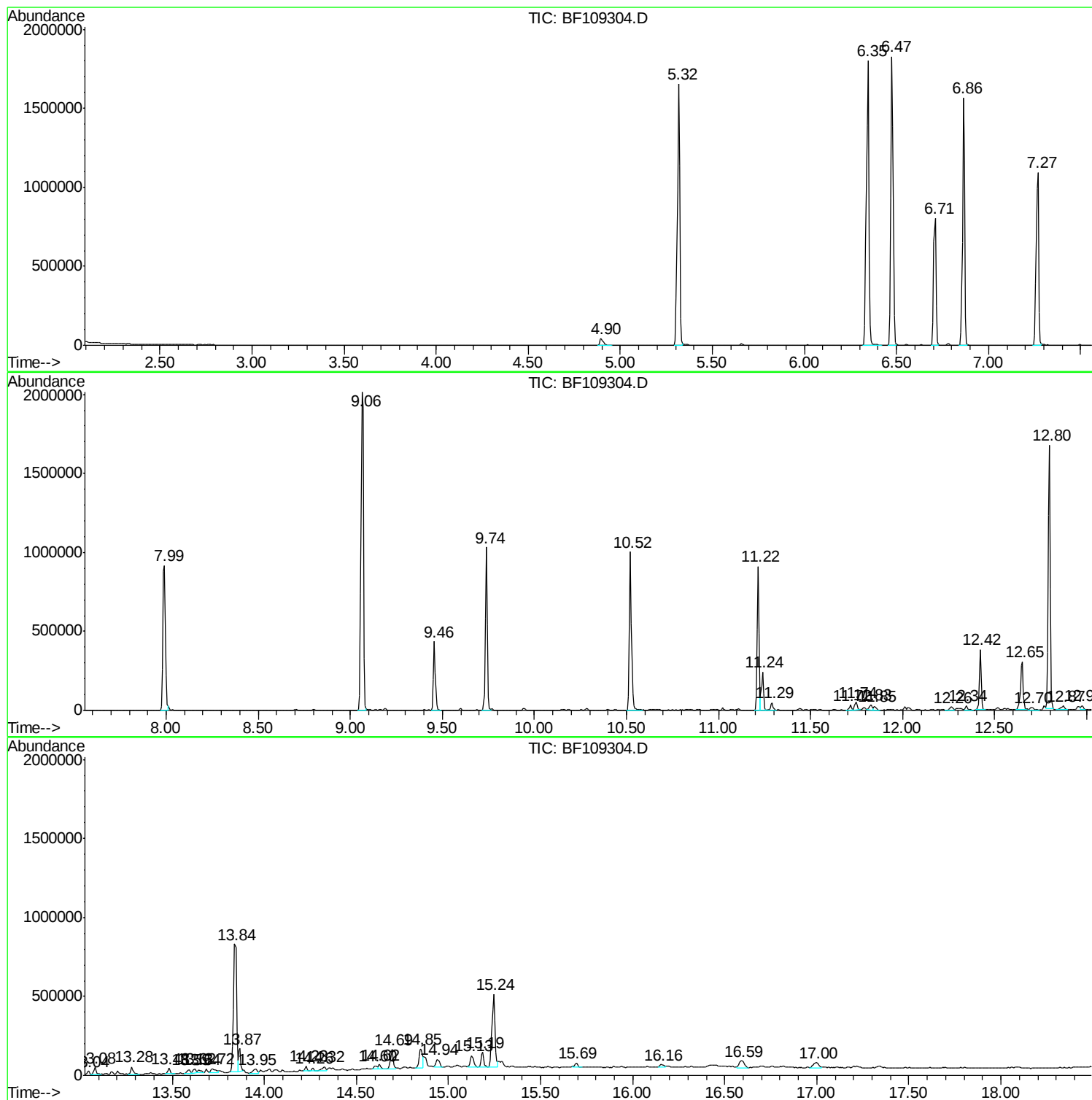
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Sample : J5044-02  
Misc :  
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Instrument :  
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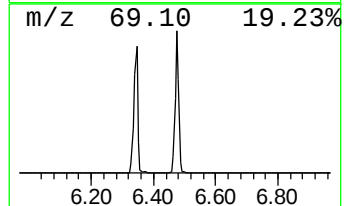
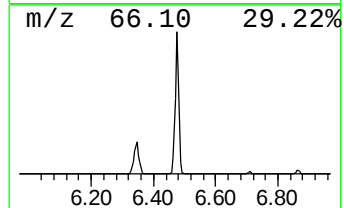
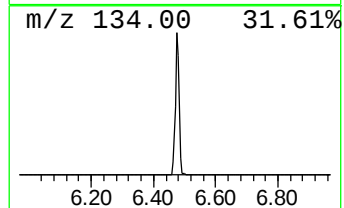
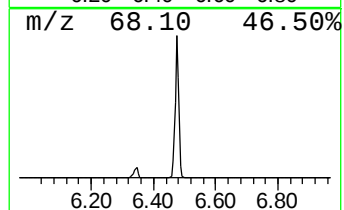
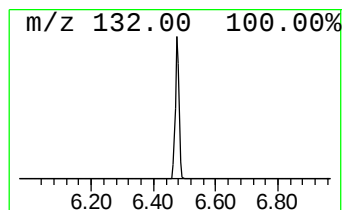
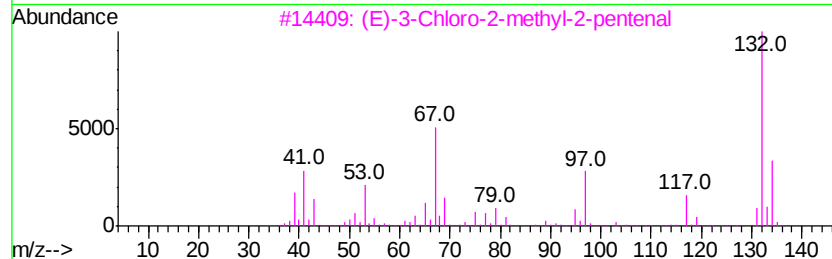
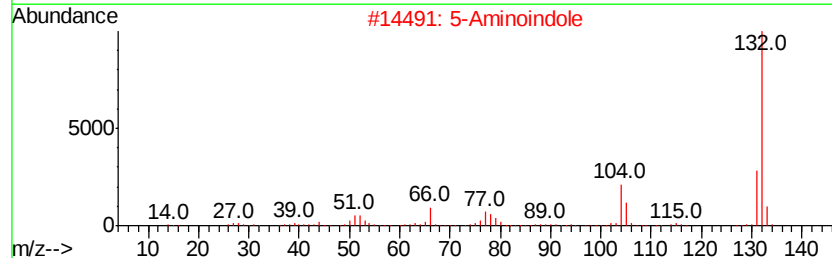
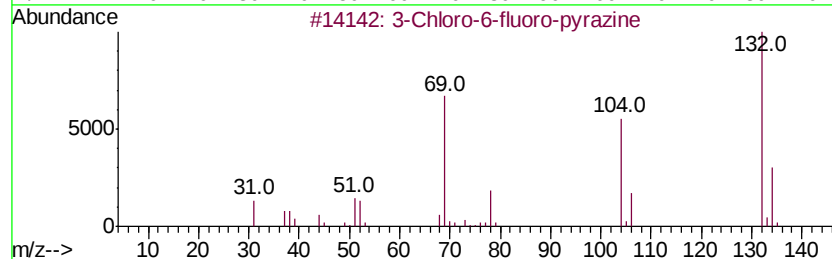
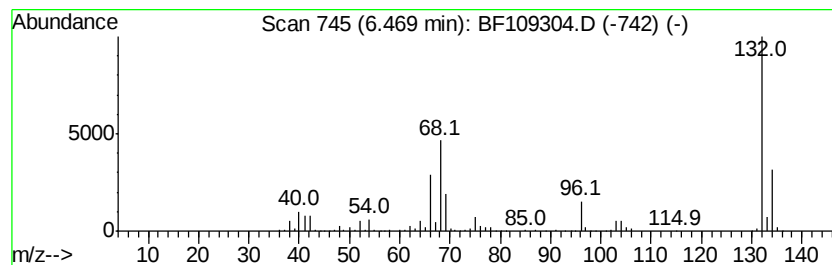
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.47 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.47 | 48.30 ng | 1606090 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    |   | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    |   | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    |   | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5  | 9    |



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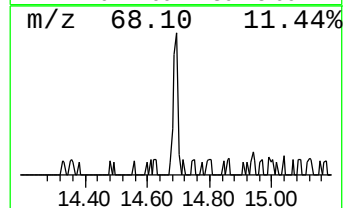
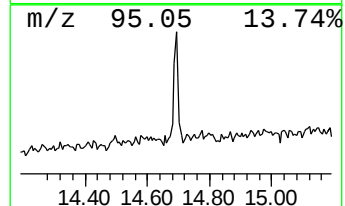
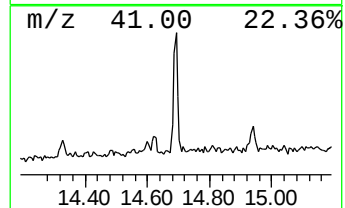
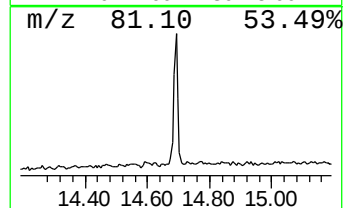
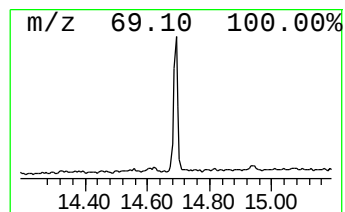
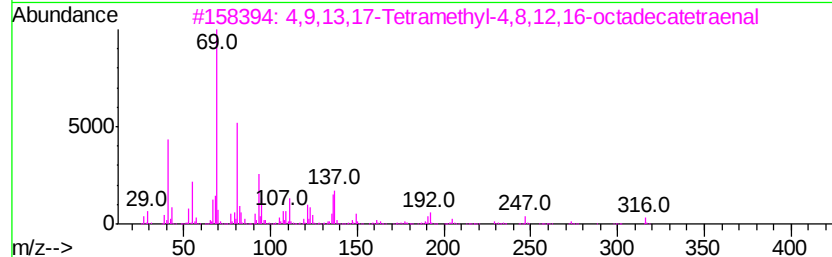
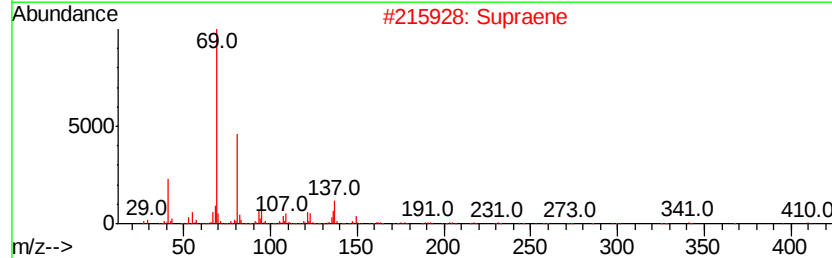
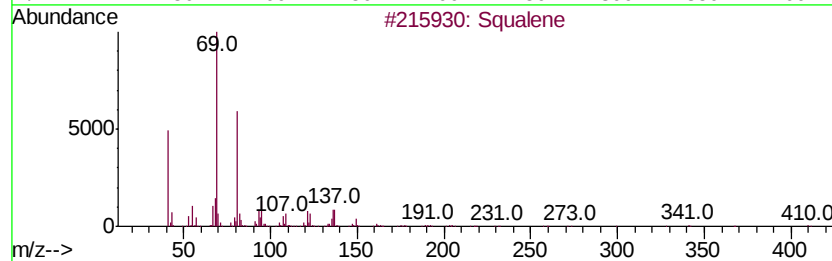
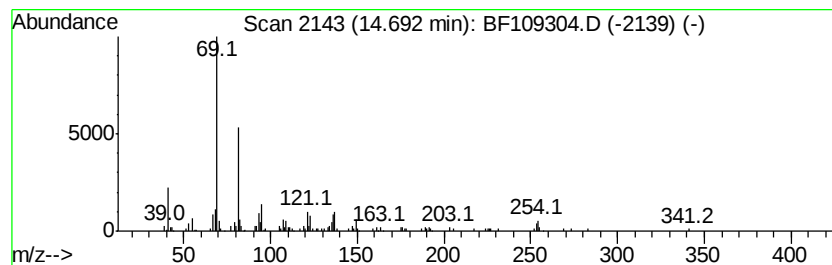
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Squalene Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 14.69   | 4.38 ng                             | 117117       | Perylene-d12     | 15.24     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Squalene                            | 410 C30H50   | 000111-02-4      | 87        |
| 2       | Supraene                            | 410 C30H50   | 007683-64-9      | 87        |
| 3       | 4,9,13,17-Tetramethyl-4,8,12,16-... | 316 C22H36O  | 056882-09-8      | 72        |
| 4       | Docosa-2,6,10,14,18-pentaen-22-a... | 384 C27H44O  | 1000163-04-7     | 72        |
| 5       | 1,5,9-Undecatriene, 2,6,10-trime... | 192 C14H24   | 062951-96-6      | 64        |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
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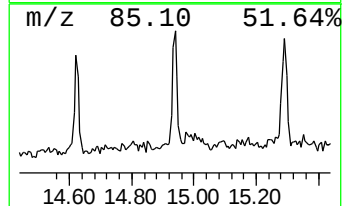
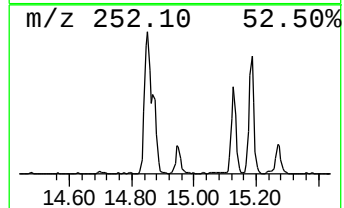
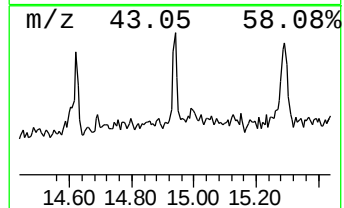
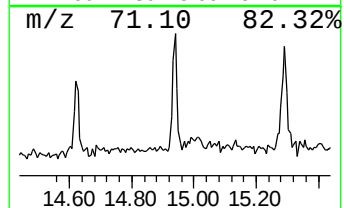
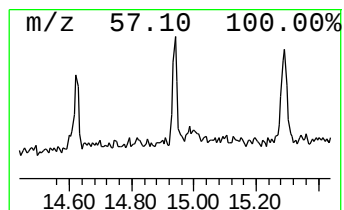
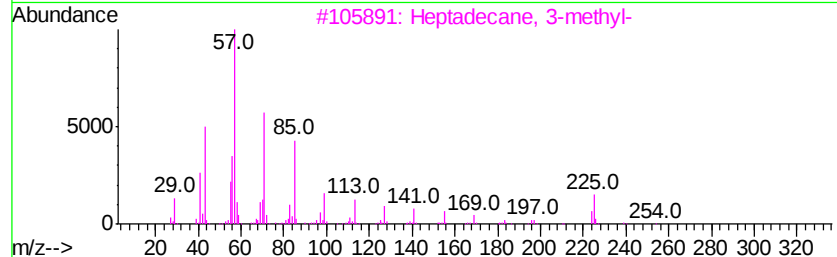
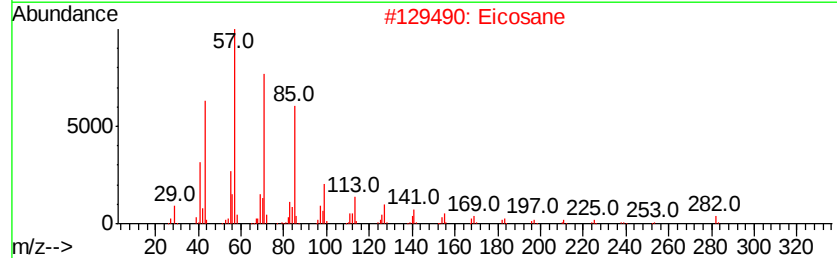
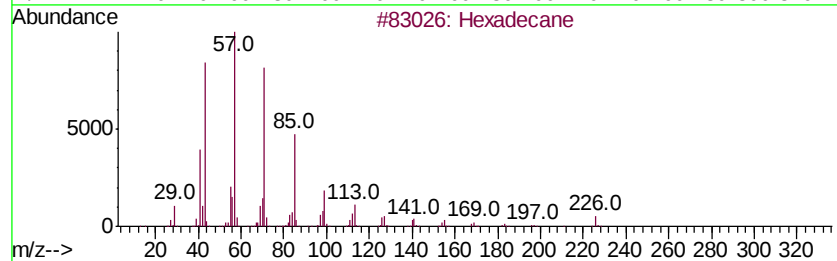
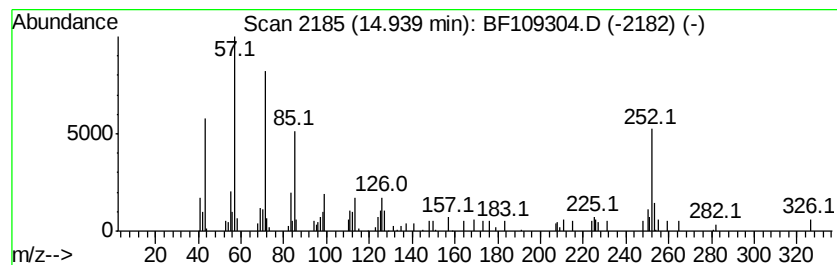
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 4 Hexadecane Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.94 | 2.30 ng | 61541 | Perylene-d12     | 15.24 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|------------------------|--------------|-----|---------|--------------|------|
| 1       | Hexadecane             |              | 226 | C16H34  | 000544-76-3  | 70   |
| 2       | Eicosane               |              | 282 | C20H42  | 000112-95-8  | 55   |
| 3       | Heptadecane, 3-methyl- |              | 254 | C18H38  | 006418-44-6  | 55   |
| 4       | 6,6-Diethylhexadecane  |              | 282 | C20H42  | 1000360-41-4 | 52   |
| 5       | Heneicosane            |              | 296 | C21H44  | 000629-94-7  | 49   |



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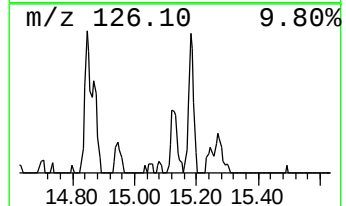
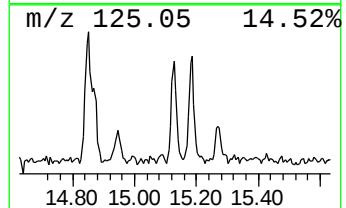
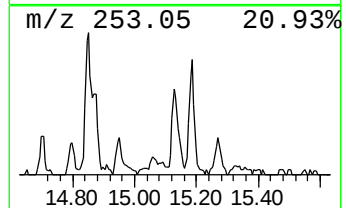
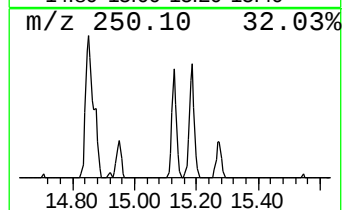
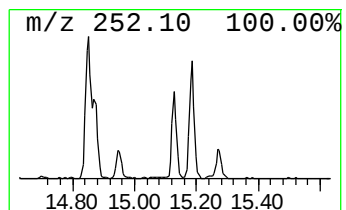
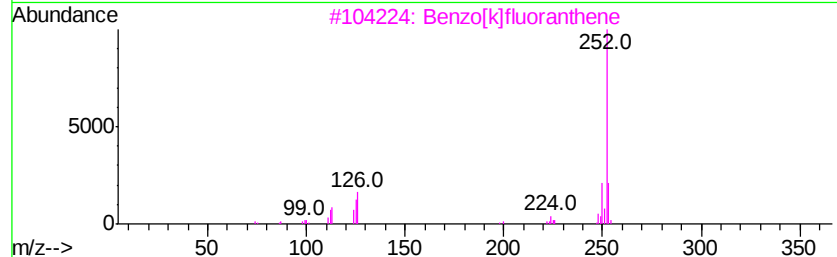
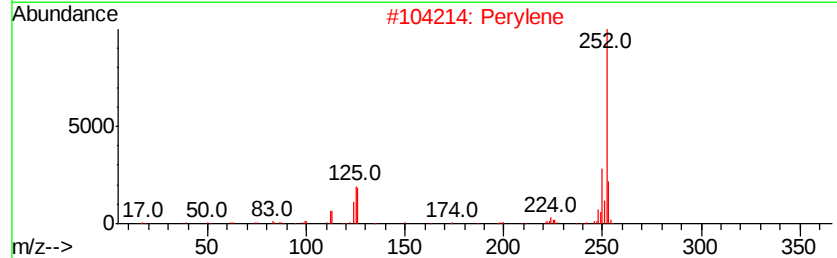
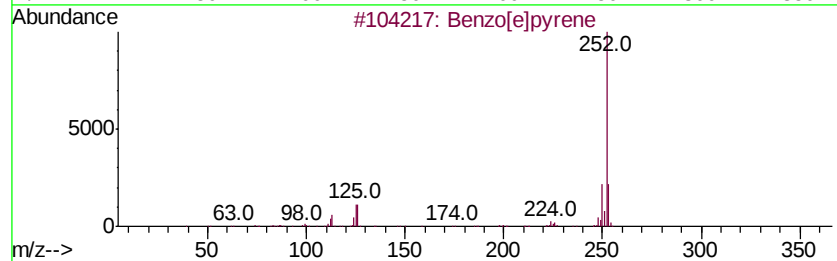
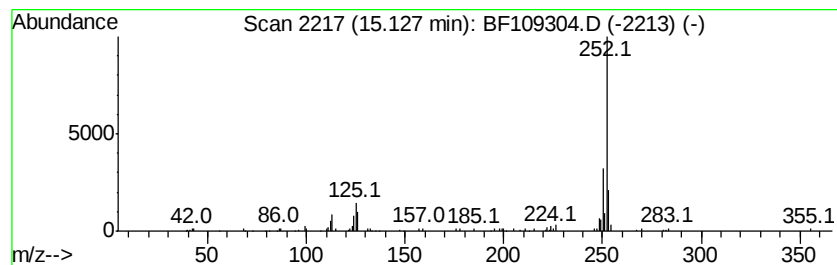
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzo[e]pyrene Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.13 | 3.46 ng | 92670 | Perylene-d12     | 15.24 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2       |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 95   |
| 3       |   | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 90   |
| 4       |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |
| 5       |   | Benzo[j]fluoranthene      | 252 | C20H12  | 000205-82-3 | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF092518\  
Data File : BF109304.D  
Acq On : 25 Sep 2018 23:27  
Operator : JU/SJ  
Sample : J5044-02  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GRID02-COMP-092018

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.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 |
| unknown6.47      | 6.47  | 48.3    | ng    | 1606090  | 1                     | 6.71  | 665066 | 20.0 |
| Squalene         | 14.69 | 4.4     | ng    | 117117   | 6                     | 15.24 | 535325 | 20.0 |
| Hexadecane       | 14.94 | 2.3     | ng    | 61541    | 6                     | 15.24 | 535325 | 20.0 |
| Benzo[e]pyrene   | 15.13 | 3.5     | ng    | 92670    | 6                     | 15.24 | 535325 | 20.0 |