

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF083018\  
 Data File : BF108651.D  
 Acq On : 30 Aug 2018 20:17  
 Operator : JU/SJ  
 Sample : J4282-15 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-01-082918-A

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         | 6.689       | 732           | 740         | 745          | rBV2     | 21640          | 65678         | 6.66%           | 0.693%        |
| 2         | 6.795       | 753           | 758         | 785          | rVB5     | 44894          | 177902        | 18.05%          | 1.878%        |
| 3         | 7.001       | 789           | 793         | 811          | rBV      | 226711         | 480774        | 48.78%          | 5.075%        |
| 4         | 7.154       | 816           | 819         | 839          | rVB      | 78175          | 174964        | 17.75%          | 1.847%        |
| 5         | 7.589       | 887           | 893         | 897          | rBV2     | 23707          | 58109         | 5.90%           | 0.613%        |
| 6         | 8.284       | 1007          | 1011        | 1038         | rBV      | 415634         | 713822        | 72.43%          | 7.535%        |
| 7         | 9.354       | 1190          | 1193        | 1208         | rBV      | 174835         | 257325        | 26.11%          | 2.716%        |
| 8         | 9.748       | 1253          | 1260        | 1264         | rBV2     | 9022           | 12711         | 1.29%           | 0.134%        |
| 9         | 10.042      | 1306          | 1310        | 1329         | rBV      | 630714         | 786760        | 79.83%          | 8.305%        |
| 10        | 10.842      | 1439          | 1446        | 1457         | rBV      | 70963          | 128496        | 13.04%          | 1.356%        |
| 11        | 10.930      | 1457          | 1461        | 1463         | rVB3     | 8328           | 12262         | 1.24%           | 0.129%        |
| 12        | 11.536      | 1560          | 1564        | 1575         | rBV2     | 571471         | 830749        | 84.29%          | 8.769%        |
| 13        | 11.619      | 1575          | 1578        | 1590         | rVB2     | 25382          | 50948         | 5.17%           | 0.538%        |
| 14        | 11.795      | 1602          | 1608        | 1611         | rBV5     | 10748          | 17311         | 1.76%           | 0.183%        |
| 15        | 11.872      | 1617          | 1621        | 1624         | rBV      | 22100          | 26147         | 2.65%           | 0.276%        |
| 16        | 11.919      | 1626          | 1629        | 1631         | rVB      | 15409          | 11932         | 1.21%           | 0.126%        |
| 17        | 12.042      | 1647          | 1650        | 1652         | rBV      | 30963          | 37439         | 3.80%           | 0.395%        |
| 18        | 12.072      | 1652          | 1655        | 1660         | rVB2     | 47057          | 60650         | 6.15%           | 0.640%        |
| 19        | 12.154      | 1665          | 1669        | 1671         | rBV2     | 38396          | 47680         | 4.84%           | 0.503%        |
| 20        | 12.177      | 1671          | 1673        | 1676         | rVB2     | 18302          | 19158         | 1.94%           | 0.202%        |
| 21        | 12.336      | 1696          | 1700        | 1704         | rBV3     | 16888          | 23516         | 2.39%           | 0.248%        |
| 22        | 12.371      | 1704          | 1706        | 1711         | rVB2     | 14722          | 17793         | 1.81%           | 0.188%        |
| 23        | 12.483      | 1720          | 1725        | 1727         | rBV5     | 10519          | 13830         | 1.40%           | 0.146%        |
| 24        | 12.513      | 1727          | 1730        | 1733         | rBV4     | 9673           | 11684         | 1.19%           | 0.123%        |
| 25        | 12.536      | 1733          | 1734        | 1739         | rVB3     | 11365          | 13712         | 1.39%           | 0.145%        |
| 26        | 12.589      | 1739          | 1743        | 1745         | rBV      | 68032          | 69962         | 7.10%           | 0.738%        |
| 27        | 12.689      | 1755          | 1760        | 1768         | rVB5     | 24455          | 39708         | 4.03%           | 0.419%        |
| 28        | 12.760      | 1768          | 1772        | 1781         | rBV      | 297420         | 381872        | 38.75%          | 4.031%        |
| 29        | 12.913      | 1793          | 1798        | 1804         | rVB4     | 20524          | 37360         | 3.79%           | 0.394%        |
| 30        | 12.989      | 1804          | 1811        | 1816         | rBV      | 337662         | 453688        | 46.03%          | 4.789%        |
| 31        | 13.036      | 1816          | 1819        | 1823         | rVB5     | 26896          | 35510         | 3.60%           | 0.375%        |
| 32        | 13.118      | 1829          | 1833        | 1843         | rVB      | 259172         | 278394        | 28.25%          | 2.939%        |
| 33        | 13.207      | 1844          | 1848        | 1853         | rVB3     | 34699          | 61015         | 6.19%           | 0.644%        |
| 34        | 13.260      | 1854          | 1857        | 1859         | rBV4     | 13848          | 15325         | 1.55%           | 0.162%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-01-082918-A

Integration Parameters: rteint.p  
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 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

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 13.295 | 1859 | 1863 | 1864 | rBV3 | 33514  | 37375  | 3.79%   | 0.395%  |
| 36 | 13.318 | 1864 | 1867 | 1872 | rVB  | 47484  | 62377  | 6.33%   | 0.658%  |
| 37 | 13.383 | 1875 | 1878 | 1880 | rVV  | 29911  | 28883  | 2.93%   | 0.305%  |
| 38 | 13.424 | 1881 | 1885 | 1891 | rVB2 | 55094  | 83153  | 8.44%   | 0.878%  |
| 39 | 13.518 | 1898 | 1901 | 1903 | rBV2 | 44097  | 44683  | 4.53%   | 0.472%  |
| 40 | 13.548 | 1903 | 1906 | 1912 | rVB  | 38591  | 49879  | 5.06%   | 0.526%  |
| 41 | 13.830 | 1951 | 1954 | 1959 | rVB  | 36061  | 42944  | 4.36%   | 0.453%  |
| 42 | 13.942 | 1970 | 1973 | 1975 | rBV  | 71783  | 73289  | 7.44%   | 0.774%  |
| 43 | 13.966 | 1975 | 1977 | 1980 | rVV  | 39824  | 38328  | 3.89%   | 0.405%  |
| 44 | 13.995 | 1980 | 1982 | 1985 | rVV2 | 33286  | 39540  | 4.01%   | 0.417%  |
| 45 | 14.042 | 1988 | 1990 | 1993 | rVB  | 33898  | 34502  | 3.50%   | 0.364%  |
| 46 | 14.189 | 2010 | 2015 | 2018 | rBV2 | 735877 | 985545 | 100.00% | 10.403% |
| 47 | 14.218 | 2018 | 2020 | 2027 | rVV  | 259077 | 264979 | 26.89%  | 2.797%  |
| 48 | 14.301 | 2031 | 2034 | 2039 | rVV3 | 30324  | 50346  | 5.11%   | 0.531%  |
| 49 | 14.577 | 2079 | 2081 | 2085 | rVB  | 62788  | 58800  | 5.97%   | 0.621%  |
| 50 | 14.613 | 2085 | 2087 | 2091 | rVB  | 54657  | 53019  | 5.38%   | 0.560%  |
| 51 | 15.283 | 2197 | 2201 | 2213 | rBV2 | 200993 | 489641 | 49.68%  | 5.168%  |
| 52 | 15.612 | 2253 | 2257 | 2264 | rVB  | 119340 | 189384 | 19.22%  | 1.999%  |
| 53 | 15.683 | 2264 | 2269 | 2271 | rBV  | 164463 | 251312 | 25.50%  | 2.653%  |
| 54 | 15.748 | 2276 | 2280 | 2292 | rVB  | 435501 | 726756 | 73.74%  | 7.671%  |
| 55 | 16.177 | 2349 | 2353 | 2358 | rVB  | 102883 | 158104 | 16.04%  | 1.669%  |
| 56 | 16.724 | 2442 | 2446 | 2451 | rVB  | 56775  | 83840  | 8.51%   | 0.885%  |
| 57 | 17.359 | 2549 | 2554 | 2565 | rVB3 | 79309  | 202886 | 20.59%  | 2.142%  |

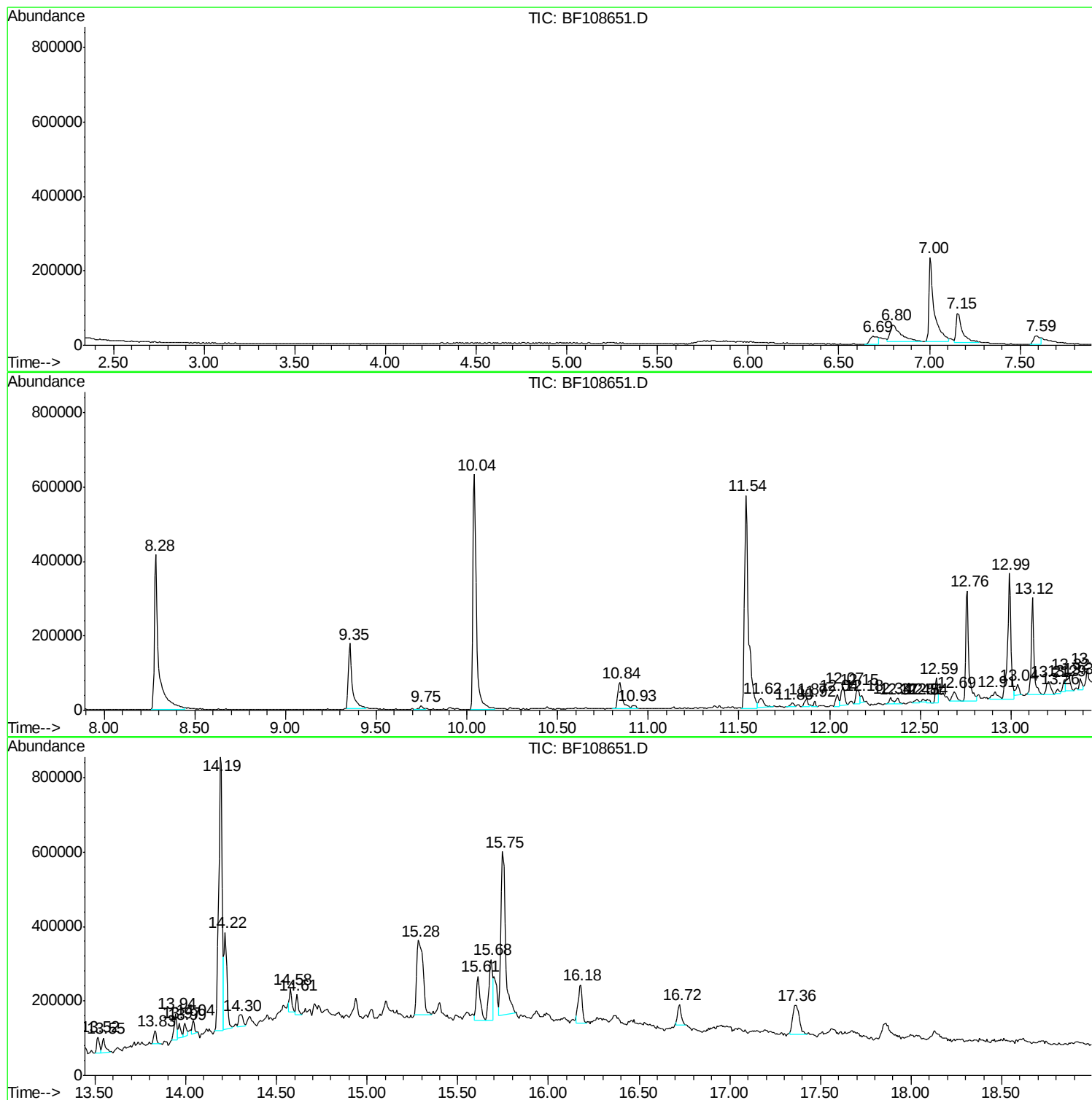
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Instrument :  
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ClientSampleId :  
SU-01-082918-A

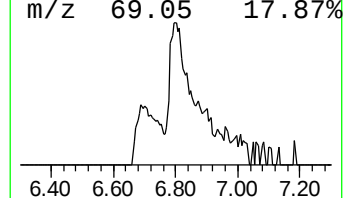
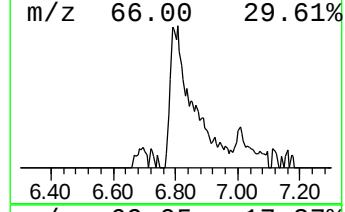
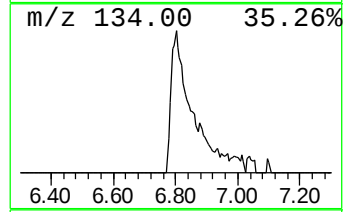
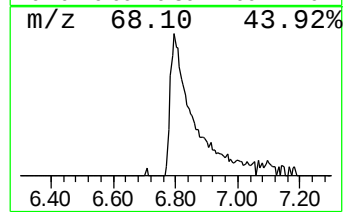
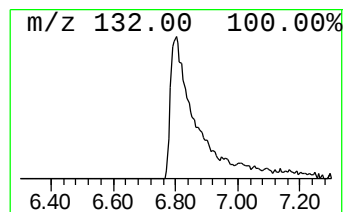
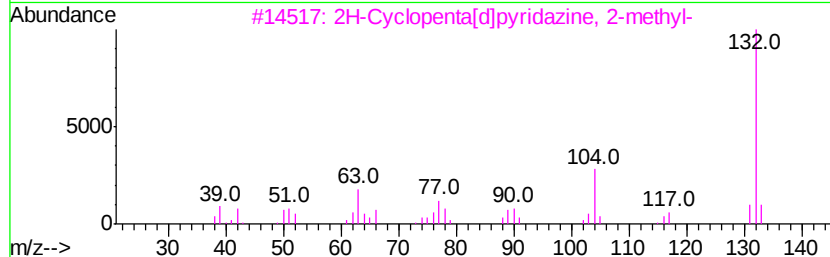
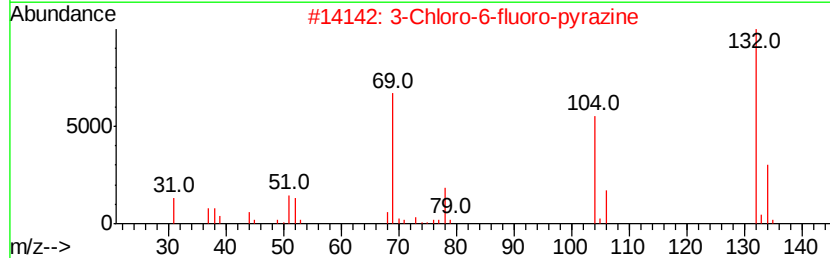
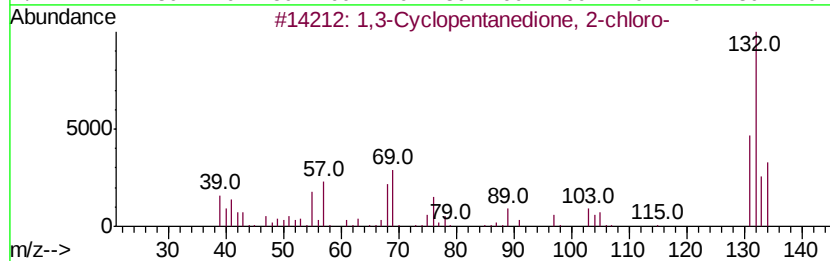
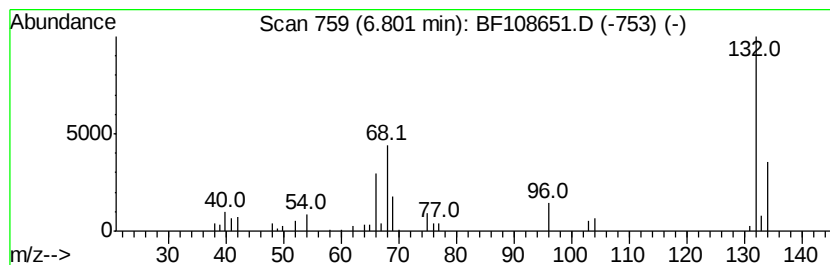
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.80 Concentration Rank 1

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.80 | 7.40 ng | 177902 | 1,4-Dichlorobenzene-d4 | 7.00 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1,3-Cyclopentanedione, 2-chloro-    | 132 | C5H5ClO2  | 014203-19-1  | 37   |
| 2    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    |   | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 16   |
| 4    |    |   | Cyclopropanamine, 1-phenyl-         | 133 | C9H11N    | 1000351-26-2 | 12   |
| 5    |    |   | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 12   |



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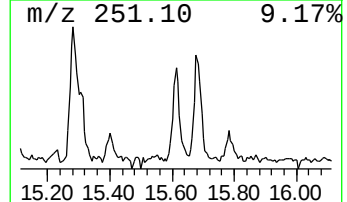
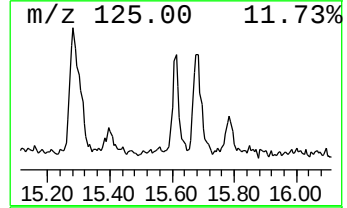
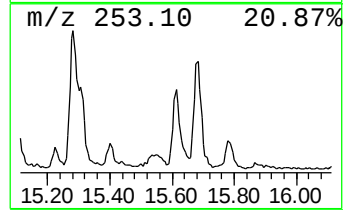
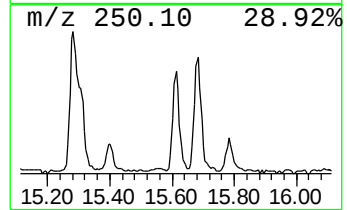
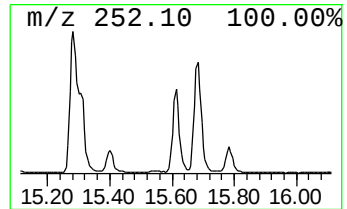
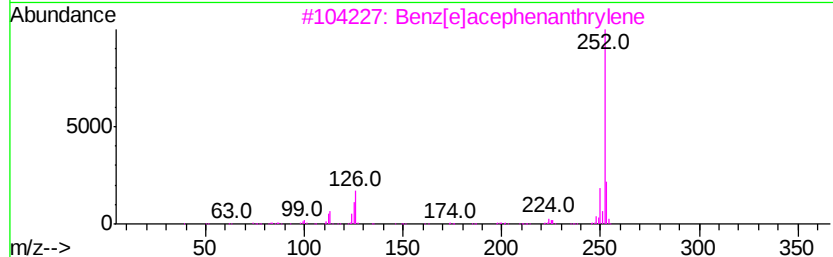
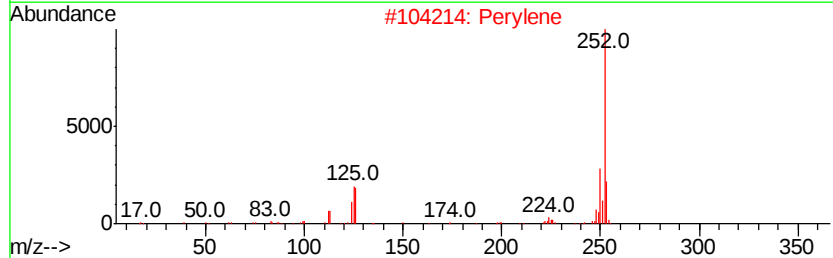
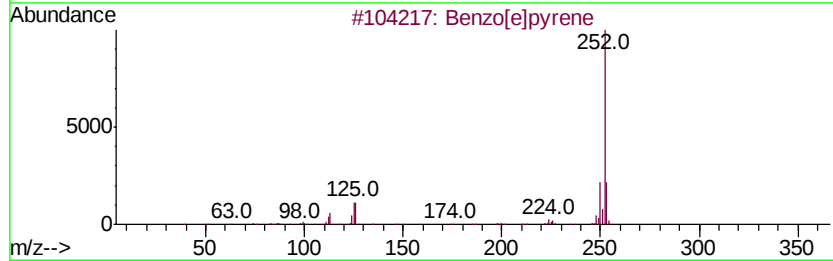
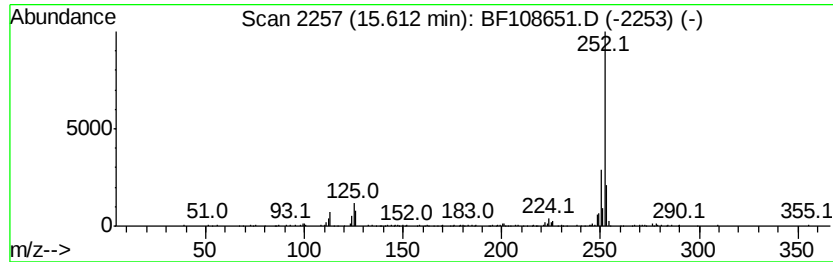
Instrument :  
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SU-01-082918-A

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 3 Benzo[e]pyrene Concentration Rank 3

| R.T.      | EstConc                   | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------|--------|------------------|-------------|------|
| 15.61     | 5.21 ng                   | 189384 | Perylene-d12     | 15.75       |      |
| Hit# of 5 | Tentative ID              | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[e]pyrene            | 252    | C20H12           | 000192-97-2 | 96   |
| 2         | Perylene                  | 252    | C20H12           | 000198-55-0 | 95   |
| 3         | Benzo[e]acephenanthrylene | 252    | C20H12           | 000205-99-2 | 93   |
| 4         | Benzo[k]fluoranthene      | 252    | C20H12           | 000207-08-9 | 93   |
| 5         | Benzo[j]fluoranthene      | 252    | C20H12           | 000205-82-3 | 90   |



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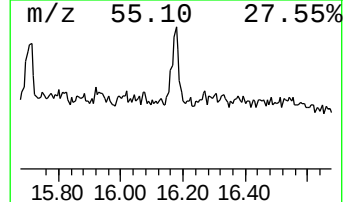
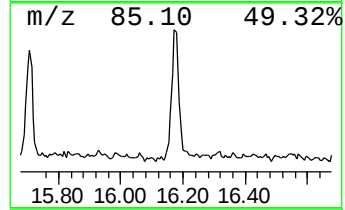
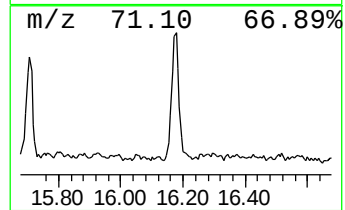
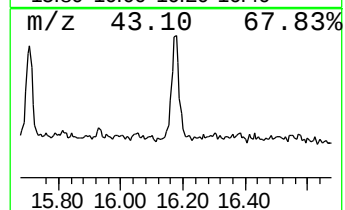
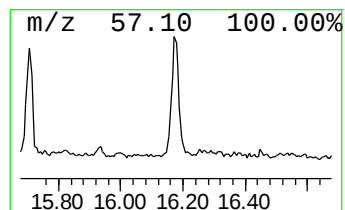
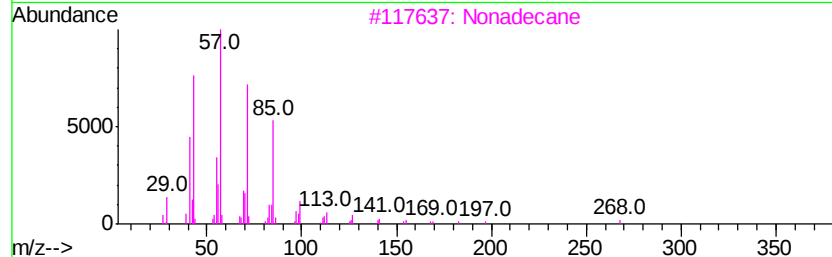
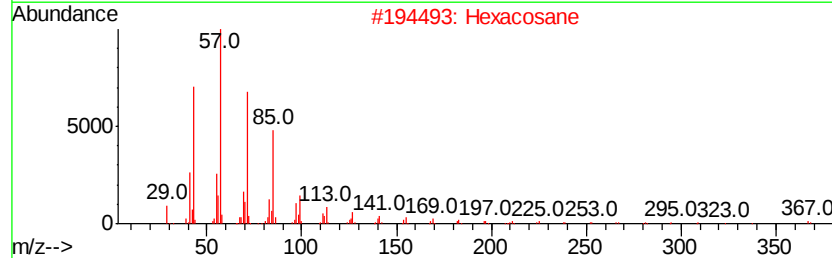
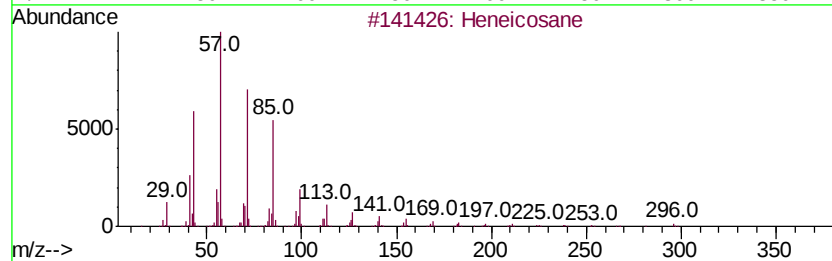
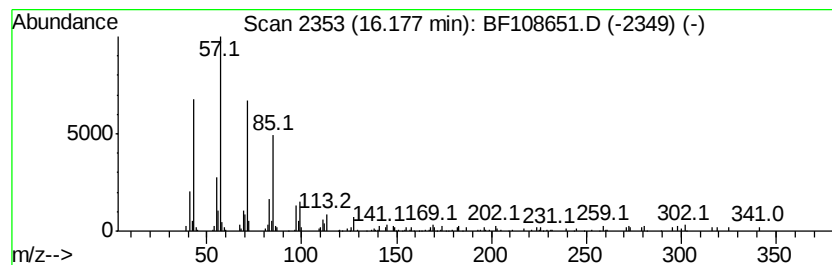
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 4 Heneicosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.18 | 4.35 ng | 158104 | Perylene-d12     | 15.75 |

| Hit# of | 5                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane       |              | 296 | C21H44  | 000629-94-7 | 87   |
| 2       | Hexacosane        |              | 366 | C26H54  | 000630-01-3 | 86   |
| 3       | Nonadecane        |              | 268 | C19H40  | 000629-92-5 | 86   |
| 4       | Tetratetracontane |              | 619 | C44H90  | 007098-22-8 | 86   |
| 5       | Heptadecane       |              | 240 | C17H36  | 000629-78-7 | 80   |



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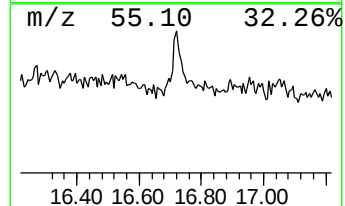
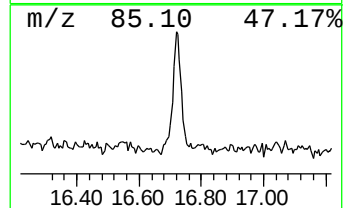
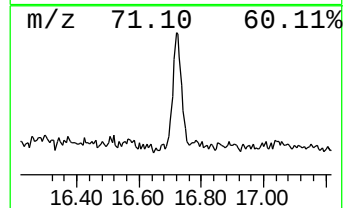
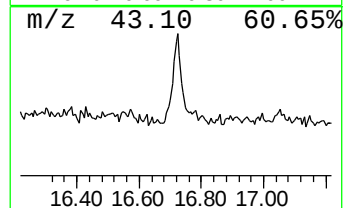
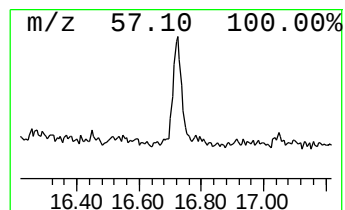
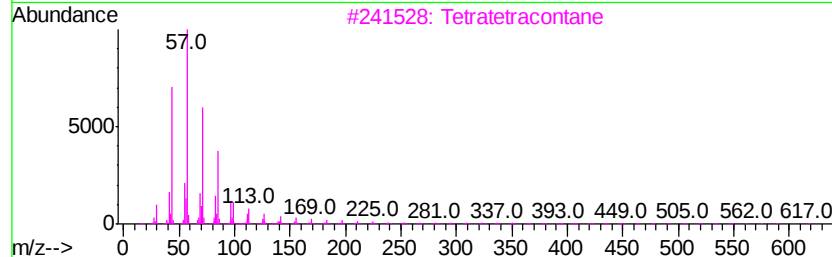
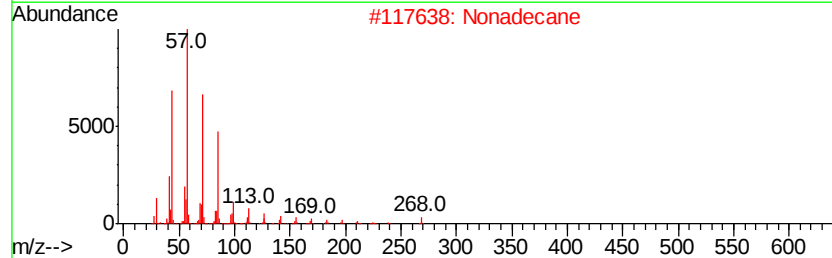
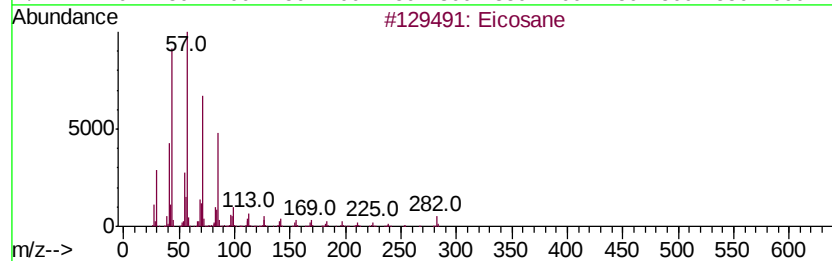
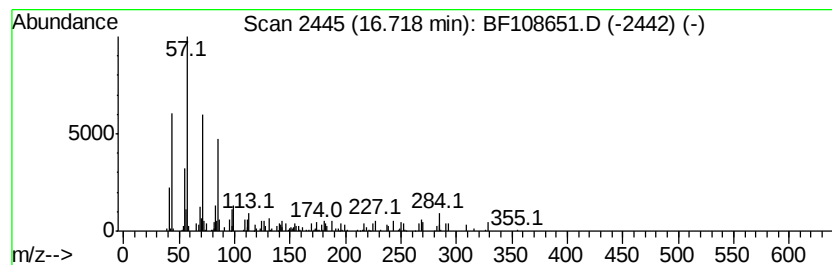
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Eicosane Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.72 | 2.31 ng | 83840 | Perylene-d12     | 15.75 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Eicosane           |              | 282 | C20H42  | 000112-95-8  | 86   |
| 2       | Nonadecane         |              | 268 | C19H40  | 000629-92-5  | 86   |
| 3       | Tetratetracontane  |              | 619 | C44H90  | 007098-22-8  | 64   |
| 4       | Tetradecane        |              | 198 | C14H30  | 000629-59-4  | 58   |
| 5       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF083018\  
Data File : BF108651.D  
Acq On : 30 Aug 2018 20:17  
Operator : JU/SJ  
Sample : J4282-15 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-01-082918-A

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 |
| unknown6.80      | 6.80  | 7.4     | ng    | 177902   | 1                     | 7.00  | 480774 | 20.0 |
| Benzo[e]pyrene   | 15.61 | 5.2     | ng    | 189384   | 6                     | 15.75 | 726756 | 20.0 |
| Heneicosane      | 16.18 | 4.3     | ng    | 158104   | 6                     | 15.75 | 726756 | 20.0 |
| Eicosane         | 16.72 | 2.3     | ng    | 83840    | 6                     | 15.75 | 726756 | 20.0 |