

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081917\  
 Data File : BF097893.D  
 Acq On : 19 Aug 2017 21:56  
 Operator : SJ/JU  
 Sample : I4852-04 10X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-242

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         | 4.939       | 482           | 485         | 491          | rVB      | 75442          | 73047         | 6.22%           | 1.039%        |
| 2         | 6.763       | 791           | 795         | 798          | rBV      | 1122336        | 924853        | 78.69%          | 13.154%       |
| 3         | 8.045       | 1009          | 1013        | 1016         | rBV      | 1486990        | 1175250       | 100.00%         | 16.716%       |
| 4         | 9.510       | 1260          | 1262        | 1266         | rBV      | 57497          | 47415         | 4.03%           | 0.674%        |
| 5         | 9.798       | 1307          | 1311        | 1314         | rBV      | 1206241        | 1092923       | 92.99%          | 15.545%       |
| 6         | 10.704      | 1462          | 1465        | 1471         | rBV3     | 12186          | 14847         | 1.26%           | 0.211%        |
| 7         | 11.274      | 1558          | 1562        | 1565         | rBV      | 1013030        | 871987        | 74.20%          | 12.402%       |
| 8         | 11.298      | 1565          | 1566        | 1570         | rVV      | 85127          | 48635         | 4.14%           | 0.692%        |
| 9         | 11.351      | 1572          | 1575        | 1579         | rVB      | 21144          | 17769         | 1.51%           | 0.253%        |
| 10        | 11.651      | 1622          | 1626        | 1629         | rBV      | 594324         | 455825        | 38.79%          | 6.483%        |
| 11        | 11.892      | 1663          | 1667        | 1669         | rBV2     | 13890          | 16093         | 1.37%           | 0.229%        |
| 12        | 12.351      | 1741          | 1745        | 1748         | rVB      | 595679         | 461102        | 39.23%          | 6.558%        |
| 13        | 12.486      | 1764          | 1768        | 1771         | rBV      | 112739         | 104187        | 8.87%           | 1.482%        |
| 14        | 12.709      | 1800          | 1806        | 1809         | rBV      | 106206         | 103182        | 8.78%           | 1.468%        |
| 15        | 13.039      | 1859          | 1862        | 1865         | rVB2     | 20455          | 17692         | 1.51%           | 0.252%        |
| 16        | 13.104      | 1870          | 1873        | 1876         | rVV2     | 16704          | 14872         | 1.27%           | 0.212%        |
| 17        | 13.656      | 1963          | 1967        | 1970         | rBV5     | 11741          | 18769         | 1.60%           | 0.267%        |
| 18        | 13.909      | 2005          | 2010        | 2012         | rBV      | 773604         | 811470        | 69.05%          | 11.542%       |
| 19        | 13.933      | 2012          | 2014        | 2020         | rVB      | 54834          | 50642         | 4.31%           | 0.720%        |
| 20        | 14.921      | 2179          | 2182        | 2185         | rBV      | 48630          | 67003         | 5.70%           | 0.953%        |
| 21        | 15.268      | 2238          | 2241        | 2245         | rVB      | 36976          | 34580         | 2.94%           | 0.492%        |
| 22        | 15.333      | 2247          | 2252        | 2256         | rBV      | 500333         | 608634        | 51.79%          | 8.657%        |

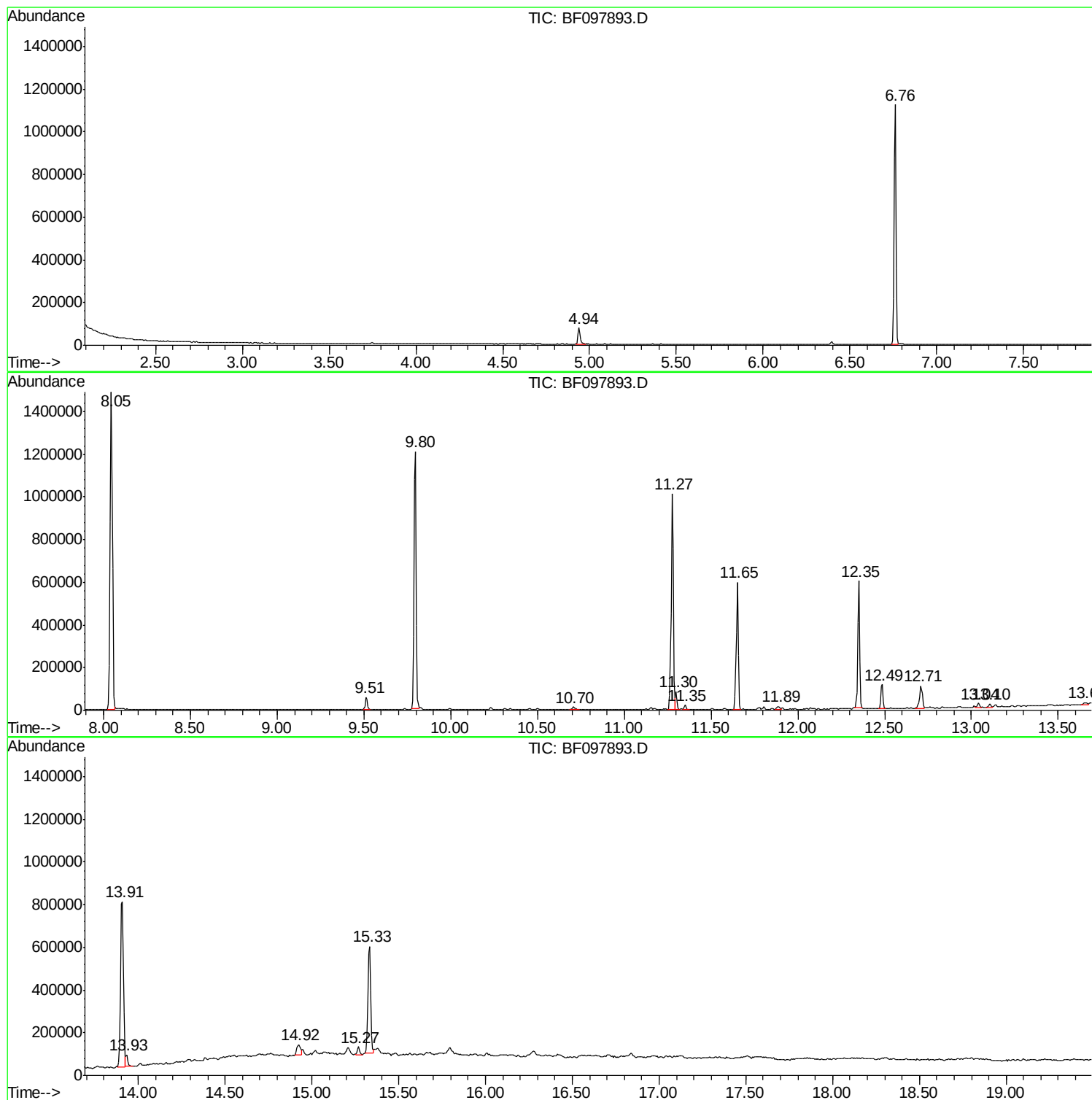
Sum of corrected areas: 7030777

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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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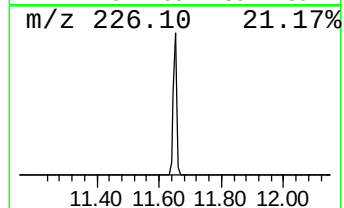
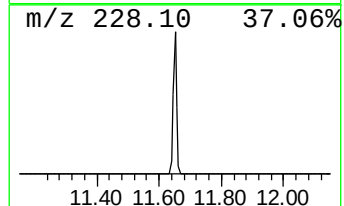
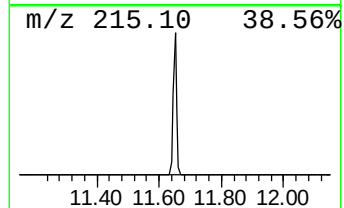
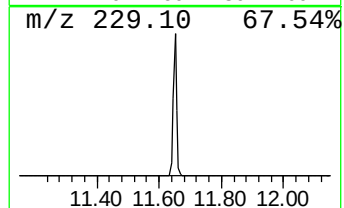
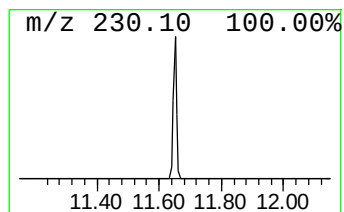
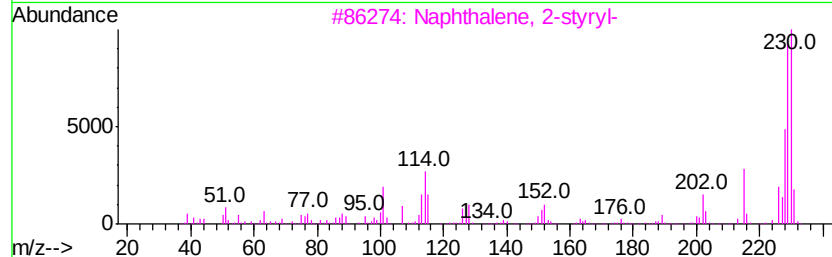
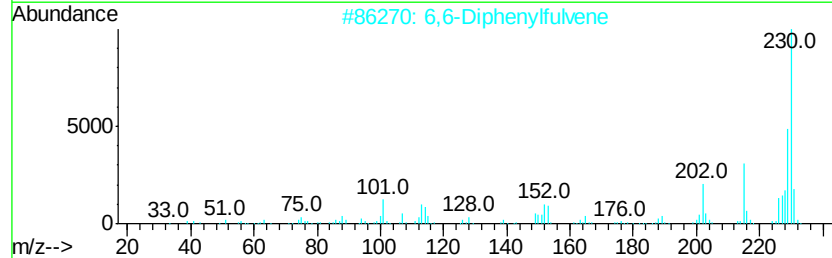
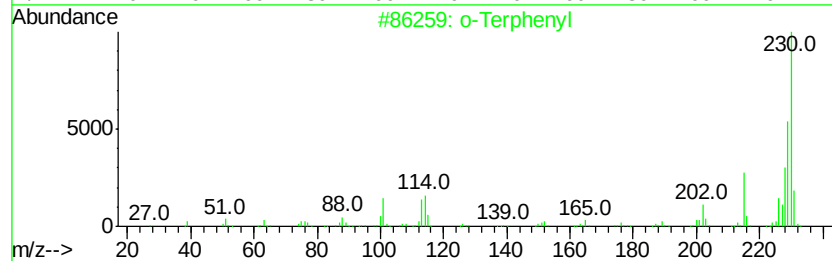
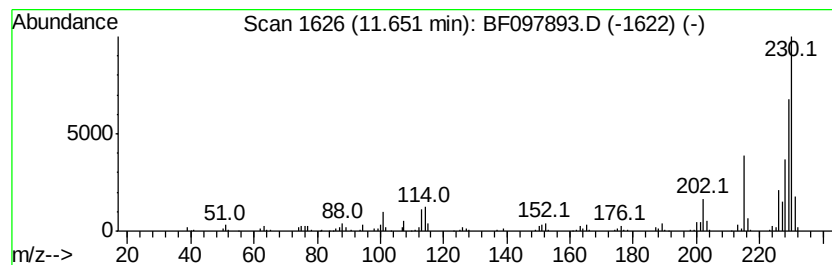
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 1 o-Terphenyl Concentration Rank 2

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 11.65     | 10.45 ng               | 455825 | Phenanthrene-d10 | 11.27       |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | o-Terphenyl            | 230    | C18H14           | 000084-15-1 | 98   |
| 2         | 6,6-Diphenylfulvene    | 230    | C18H14           | 002175-90-8 | 93   |
| 3         | Naphthalene, 2-styryl- | 230    | C18H14           | 002039-70-5 | 89   |
| 4         | Pyrene, 1,3-dimethyl-  | 230    | C18H14           | 064401-21-4 | 83   |
| 5         | 5,6-Dihydrochrysene    | 230    | C18H14           | 002091-92-1 | 76   |



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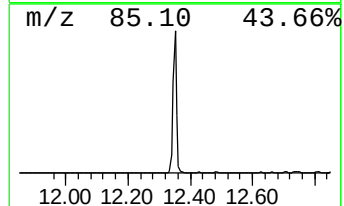
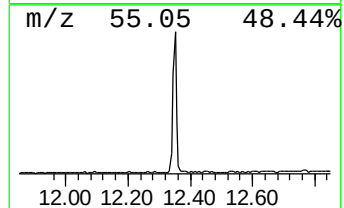
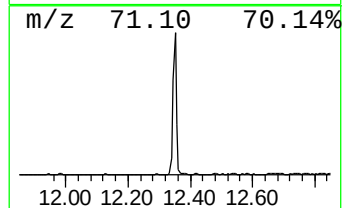
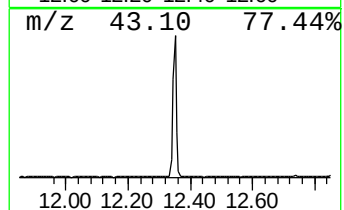
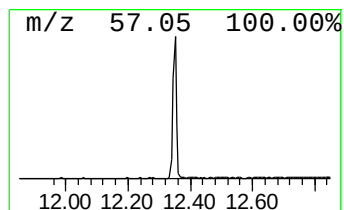
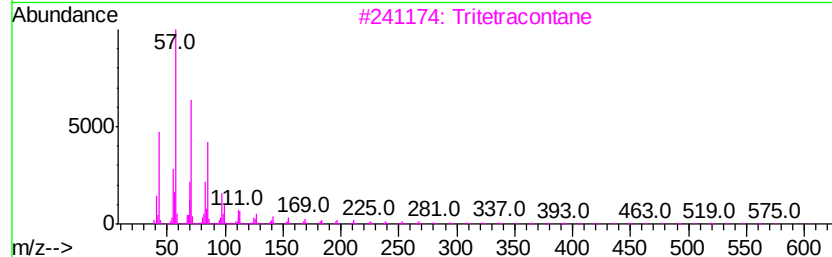
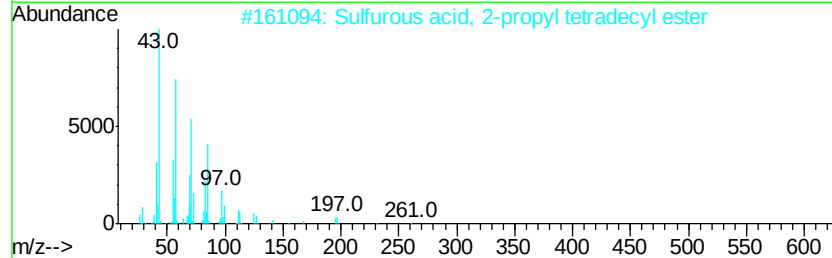
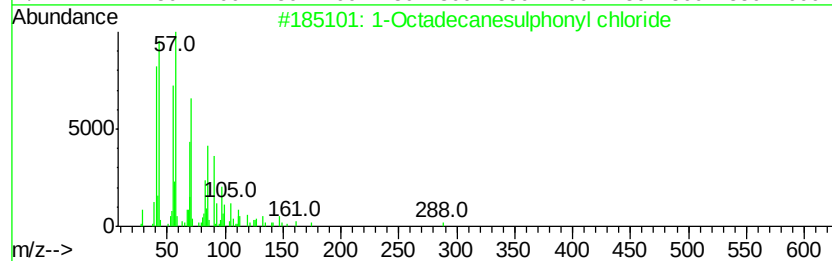
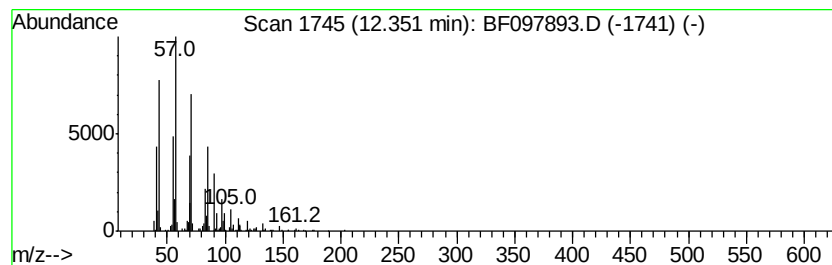
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Peak Number 2 1-Octadecanesulphonyl chloride Concentration Rank 1

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.35 | 10.58 ng | 461102 | Phenanthrene-d10 | 11.27 |

| Hit# | of | Tentative ID                           | MW  | MolForm     | CAS#         | Qual |
|------|----|----------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 1-Octadecanesulphonyl chloride         | 352 | C18H37ClO2S | 1000342-70-4 | 90   |
| 2    |    | Sulfurous acid, 2-propyl tetradecyl... | 320 | C17H36O3S   | 1000309-12-5 | 80   |
| 3    |    | Tritetracontane                        | 605 | C43H88      | 007098-21-7  | 80   |
| 4    |    | Sulfurous acid, dodecyl 2-propyl...    | 292 | C15H32O3S   | 1000309-12-3 | 80   |
| 5    |    | Tetratetracontane                      | 619 | C44H90      | 007098-22-8  | 80   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| o-Terphenyl          | 11.65 | 10.4    | ng    | 455825   | 4                     | 11.27 | 871987 | 20.0 |
| 1-Octadecanesulph... | 12.35 | 10.6    | ng    | 461102   | 4                     | 11.27 | 871987 | 20.0 |