

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
 Data File : BF133705.D  
 Acq On : 12 Jun 2023 15:48  
 Operator : CG\JU  
 Sample : 03047-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB32A

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-BF060923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF133705.D\data.ms

| 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         | 5.034       | 497           | 501         | 507          | rBV      | 19697          | 25903         | 1.09%           | 0.090%        |
| 2         | 5.445       | 566           | 571         | 574          | rBV      | 1466286        | 1322362       | 55.52%          | 4.608%        |
| 3         | 6.457       | 739           | 743         | 746          | rBV      | 1362215        | 1330674       | 55.87%          | 4.637%        |
| 4         | 6.834       | 803           | 807         | 810          | rBV      | 537185         | 451494        | 18.96%          | 1.573%        |
| 5         | 7.392       | 898           | 902         | 905          | rBV      | 1092729        | 881902        | 37.03%          | 3.073%        |
| 6         | 8.116       | 1021          | 1025        | 1028         | rBV      | 721462         | 564942        | 23.72%          | 1.968%        |
| 7         | 9.192       | 1204          | 1208        | 1211         | rBV      | 2046609        | 1572899       | 66.04%          | 5.481%        |
| 8         | 9.728       | 1295          | 1299        | 1302         | rBV      | 28560          | 26978         | 1.13%           | 0.094%        |
| 9         | 9.869       | 1320          | 1323        | 1327         | rBV      | 669408         | 565576        | 23.75%          | 1.971%        |
| 10        | 10.022      | 1337          | 1349        | 1350         | rBV4     | 29595          | 77546         | 3.26%           | 0.270%        |
| 11        | 10.075      | 1354          | 1358        | 1360         | rBV5     | 21004          | 30064         | 1.26%           | 0.105%        |
| 12        | 10.586      | 1440          | 1445        | 1448         | rBV      | 113023         | 102712        | 4.31%           | 0.358%        |
| 13        | 10.657      | 1453          | 1457        | 1461         | rBV      | 955795         | 840232        | 35.28%          | 2.928%        |
| 14        | 11.004      | 1512          | 1516        | 1522         | rVB8     | 26420          | 44607         | 1.87%           | 0.155%        |
| 15        | 11.357      | 1573          | 1576        | 1579         | rBV      | 556155         | 495812        | 20.82%          | 1.728%        |
| 16        | 11.380      | 1579          | 1580        | 1584         | rVB      | 53745          | 34101         | 1.43%           | 0.119%        |
| 17        | 11.886      | 1657          | 1666        | 1670         | rBV2     | 376143         | 415626        | 17.45%          | 1.448%        |
| 18        | 11.974      | 1678          | 1681        | 1683         | rBV2     | 27529          | 26729         | 1.12%           | 0.093%        |
| 19        | 12.033      | 1687          | 1691        | 1694         | rVV2     | 93733          | 140569        | 5.90%           | 0.490%        |
| 20        | 12.063      | 1694          | 1696        | 1706         | rVB2     | 96037          | 127266        | 5.34%           | 0.443%        |
| 21        | 12.445      | 1750          | 1761        | 1768         | rBV2     | 469439         | 1264222       | 53.08%          | 4.405%        |
| 22        | 12.574      | 1779          | 1783        | 1787         | rBV      | 287374         | 240727        | 10.11%          | 0.839%        |
| 23        | 12.674      | 1795          | 1800        | 1803         | rBV2     | 190317         | 207617        | 8.72%           | 0.723%        |
| 24        | 12.804      | 1816          | 1822        | 1827         | rBV      | 260035         | 243172        | 10.21%          | 0.847%        |
| 25        | 12.898      | 1827          | 1838        | 1843         | rVV      | 1128489        | 2363309       | 99.22%          | 8.235%        |
| 26        | 12.951      | 1843          | 1847        | 1850         | rVB      | 1145900        | 1018504       | 42.76%          | 3.549%        |
| 27        | 13.027      | 1855          | 1860        | 1862         | rBV3     | 19458          | 32877         | 1.38%           | 0.115%        |
| 28        | 13.057      | 1862          | 1865        | 1871         | rVB5     | 21676          | 34685         | 1.46%           | 0.121%        |
| 29        | 13.133      | 1875          | 1878        | 1882         | rVB2     | 34560          | 28974         | 1.22%           | 0.101%        |
| 30        | 13.363      | 1908          | 1917        | 1927         | rBV      | 816054         | 1421189       | 59.67%          | 4.952%        |
| 31        | 13.486      | 1934          | 1938        | 1948         | rBV3     | 51982          | 111625        | 4.69%           | 0.389%        |
| 32        | 13.639      | 1961          | 1964        | 1971         | rVB2     | 27040          | 36831         | 1.55%           | 0.128%        |
| 33        | 13.751      | 1979          | 1983        | 1985         | rBV3     | 24061          | 35579         | 1.49%           | 0.124%        |
| 34        | 13.780      | 1986          | 1988        | 1991         | rVV      | 31011          | 31353         | 1.32%           | 0.109%        |
| 35        | 13.851      | 1996          | 2000        | 2007         | rVB2     | 147892         | 181836        | 7.63%           | 0.634%        |
| 36        | 14.010      | 2018          | 2027        | 2036         | rBV3     | 1319811        | 2381790       | 100.00%         | 8.299%        |

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 Sample : 03047-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB32A

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-BF060923.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 14.168 | 2052 | 2054 | 2058 | rBV3 | 21399   | 24964   | 1.05%  | 0.087% |
| 38 | 14.357 | 2083 | 2086 | 2088 | rBV  | 42665   | 45788   | 1.92%  | 0.160% |
| 39 | 14.486 | 2104 | 2108 | 2111 | rVB3 | 43221   | 54375   | 2.28%  | 0.189% |
| 40 | 14.545 | 2111 | 2118 | 2124 | rBV  | 1143555 | 1580353 | 66.35% | 5.506% |
| 41 | 14.786 | 2156 | 2159 | 2162 | rVB2 | 43188   | 48680   | 2.04%  | 0.170% |
| 42 | 14.862 | 2169 | 2172 | 2178 | rVB4 | 49169   | 71602   | 3.01%  | 0.249% |
| 43 | 15.062 | 2198 | 2206 | 2213 | rBV2 | 1037053 | 2063080 | 86.62% | 7.188% |
| 44 | 15.121 | 2213 | 2216 | 2218 | rBV  | 37651   | 35266   | 1.48%  | 0.123% |
| 45 | 15.151 | 2218 | 2221 | 2224 | rBV  | 52810   | 59849   | 2.51%  | 0.209% |
| 46 | 15.345 | 2250 | 2254 | 2259 | rVB  | 116917  | 156023  | 6.55%  | 0.544% |
| 47 | 15.404 | 2260 | 2264 | 2271 | rBV  | 169352  | 248673  | 10.44% | 0.866% |
| 48 | 15.468 | 2271 | 2275 | 2279 | rVV  | 353230  | 420167  | 17.64% | 1.464% |
| 49 | 15.633 | 2295 | 2303 | 2313 | rBV  | 625776  | 1425670 | 59.86% | 4.968% |
| 50 | 16.286 | 2406 | 2414 | 2421 | rBV  | 594652  | 1191620 | 50.03% | 4.152% |
| 51 | 16.927 | 2517 | 2523 | 2531 | rBV2 | 78062   | 167668  | 7.04%  | 0.584% |
| 52 | 17.039 | 2533 | 2542 | 2549 | rVV  | 408116  | 984455  | 41.33% | 3.430% |
| 53 | 17.374 | 2592 | 2599 | 2609 | rBV4 | 105093  | 274134  | 11.51% | 0.955% |
| 54 | 17.921 | 2682 | 2692 | 2703 | rVB  | 275142  | 785885  | 33.00% | 2.738% |
| 55 | 18.956 | 2859 | 2868 | 2870 | rBV2 | 153925  | 349358  | 14.67% | 1.217% |

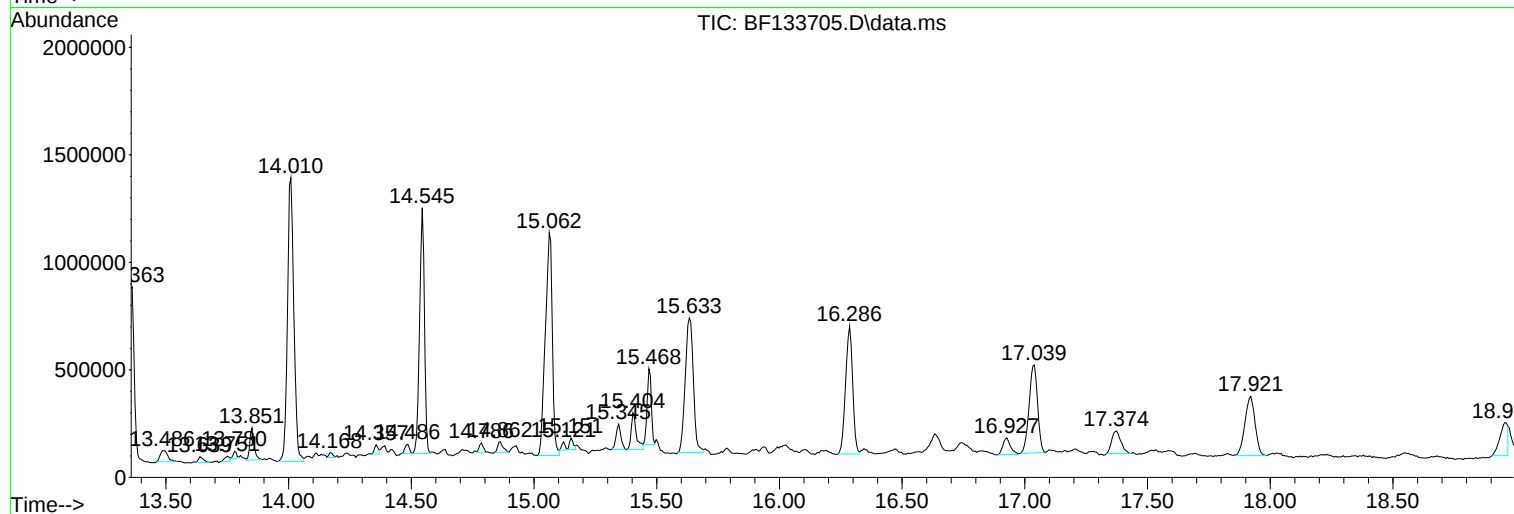
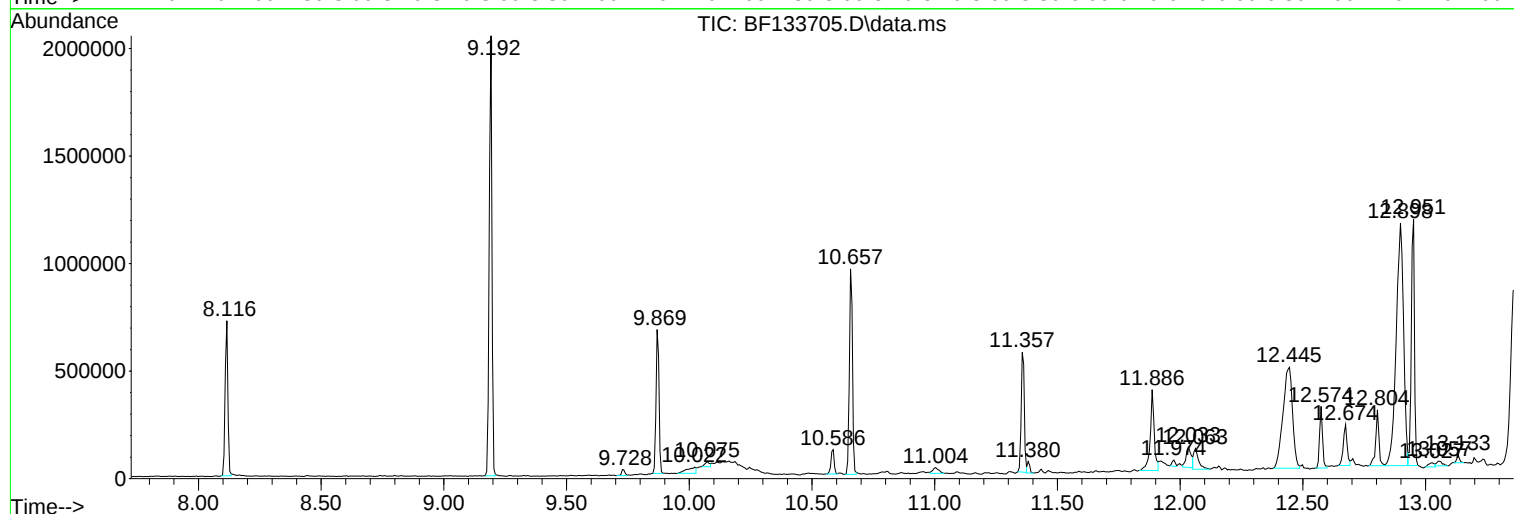
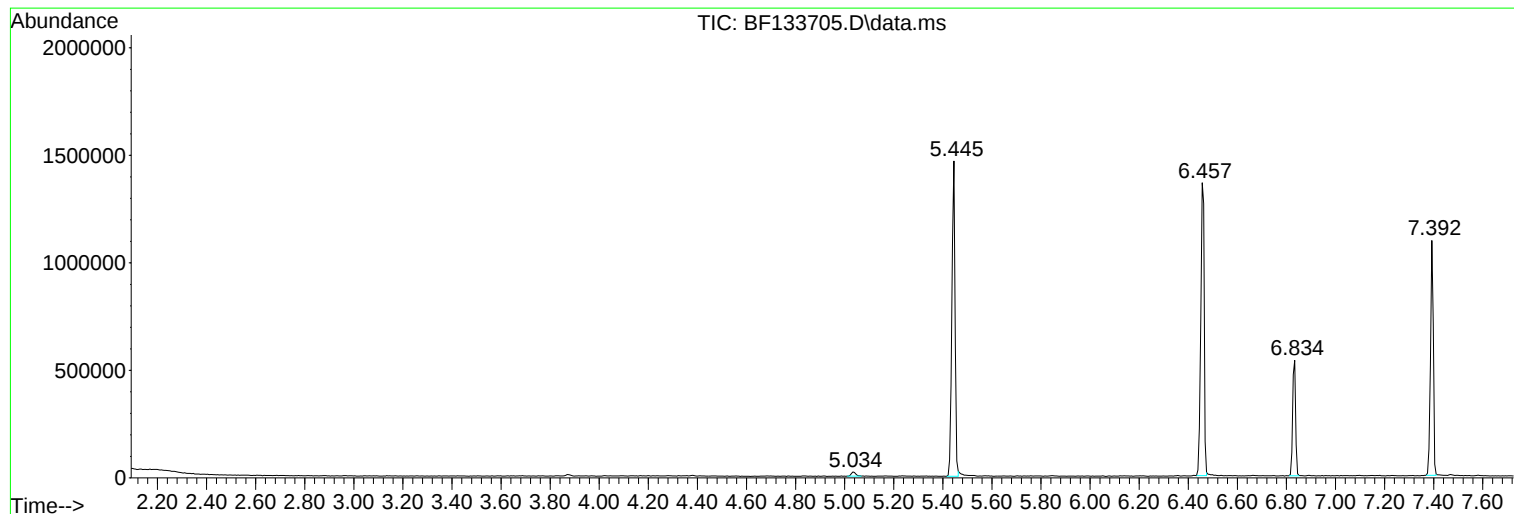
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
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Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

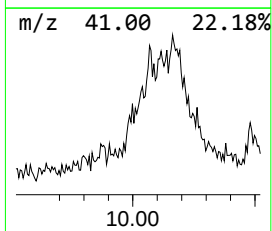
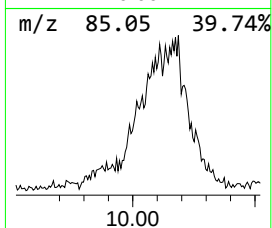
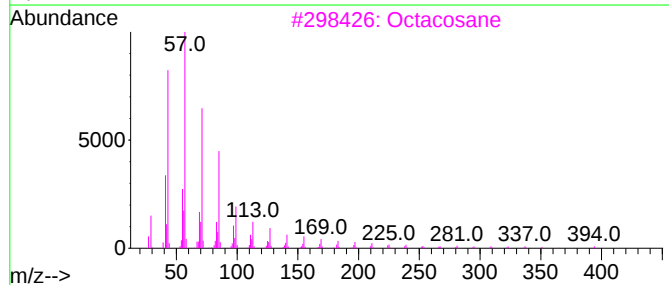
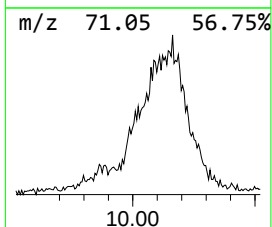
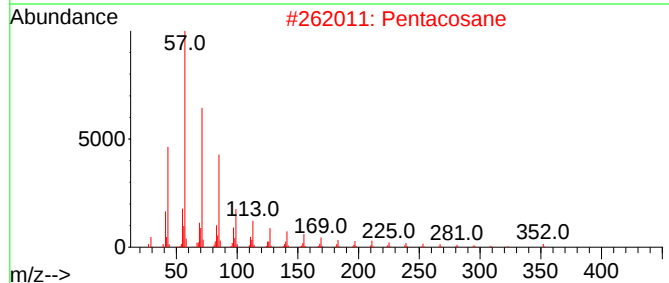
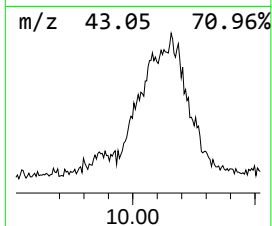
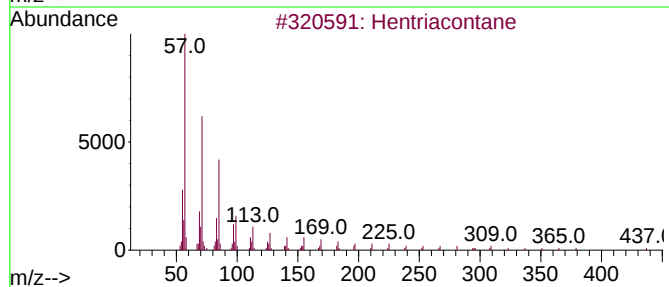
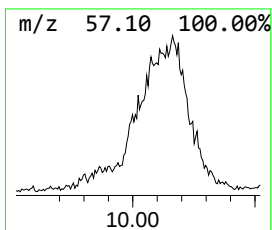
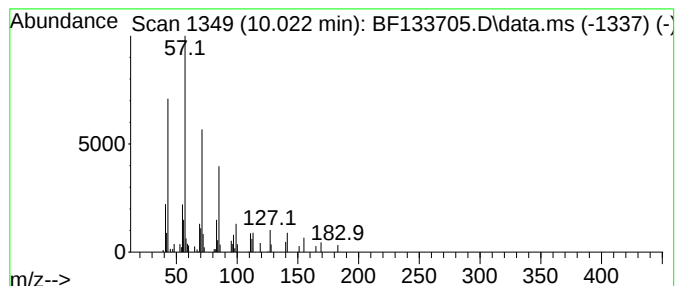
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Hentriacontane Concentration Rank 18

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.  |
|--------|---------|-------|------------------|-------|
| 10.022 | 2.74 ng | 77546 | Acenaphthene-d10 | 9.869 |

| Hit# | of | 5 | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------|-----|---------|-------------|------|
| 1    |    |   | Hentriacontane | 437 | C31H64  | 000630-04-6 | 91   |
| 2    |    |   | Pentacosane    | 352 | C25H52  | 000629-99-2 | 87   |
| 3    |    |   | Octacosane     | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    |   | Hexacosane     | 366 | C26H54  | 000630-01-3 | 87   |
| 5    |    |   | Heptacosane    | 380 | C27H56  | 000593-49-7 | 86   |



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Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

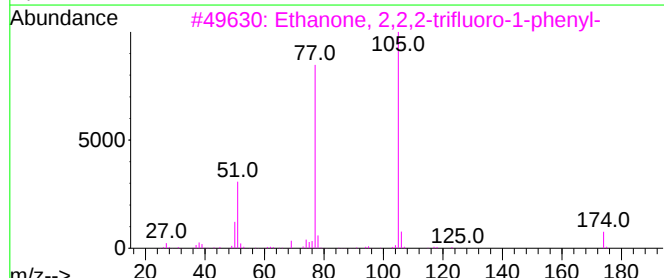
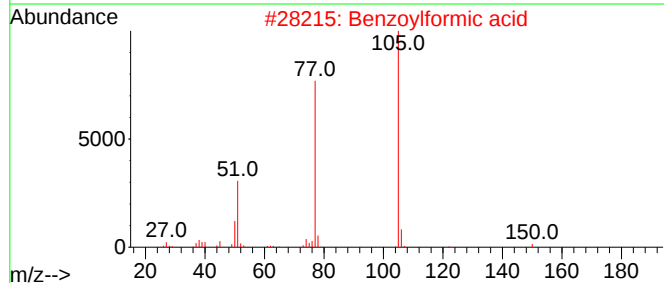
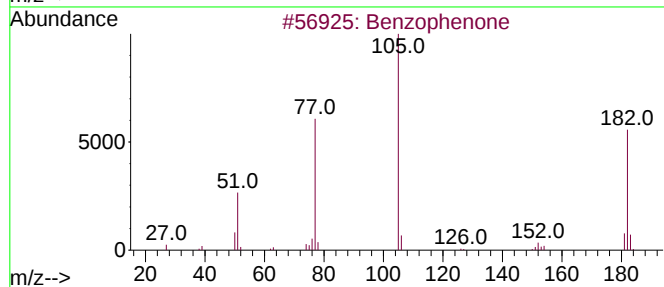
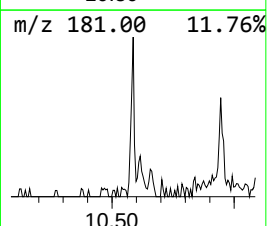
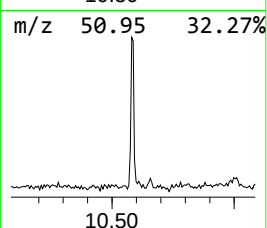
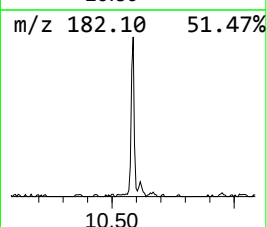
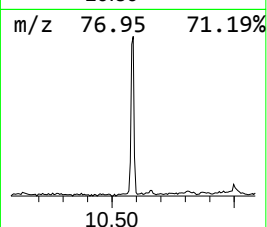
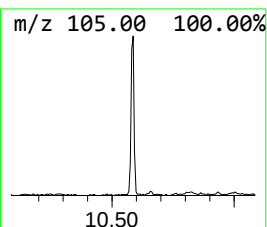
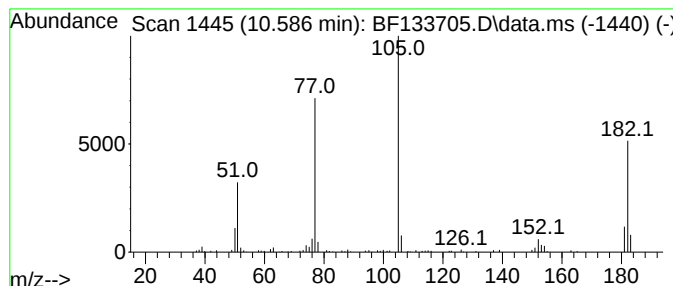
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzophenone Concentration Rank 15

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.586 | 3.63 ng | 102712 | Acenaphthene-d10 | 9.869 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O | 000119-61-9 | 97   |
| 2    |    |   | Benzoylformic acid                  | 150 | C8H6O3  | 000611-73-4 | 49   |
| 3    |    |   | Ethanone, 2,2,2-trifluoro-1-phenyl- | 174 | C8H5F3O | 000434-45-7 | 47   |
| 4    |    |   | Benzenepropanenitrile, .beta.-oxo-  | 145 | C9H7NO  | 000614-16-4 | 47   |
| 5    |    |   | Acetophenone, 2-chloro-             | 154 | C8H7ClO | 000532-27-4 | 47   |



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Instrument :  
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ClientSampleId :  
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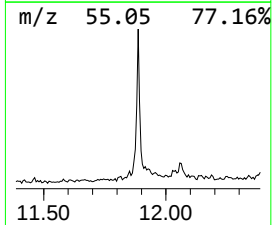
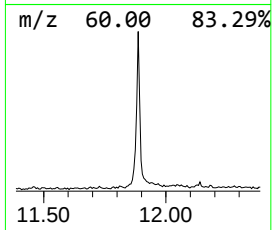
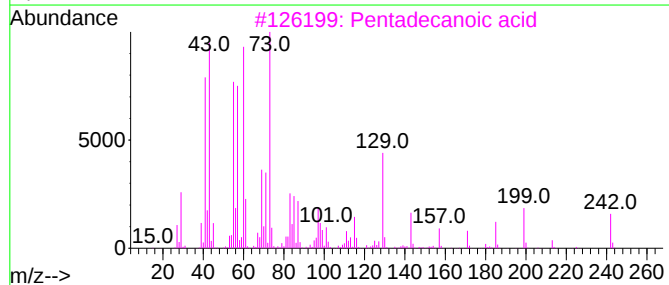
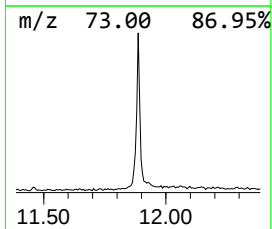
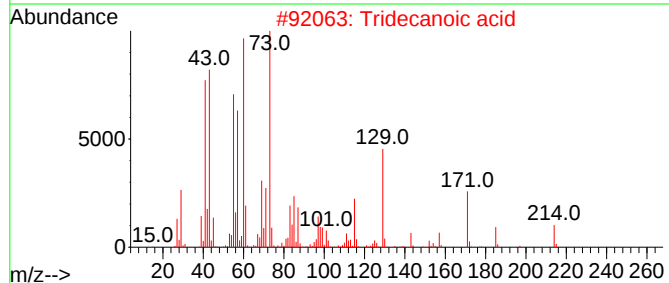
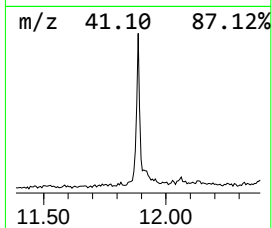
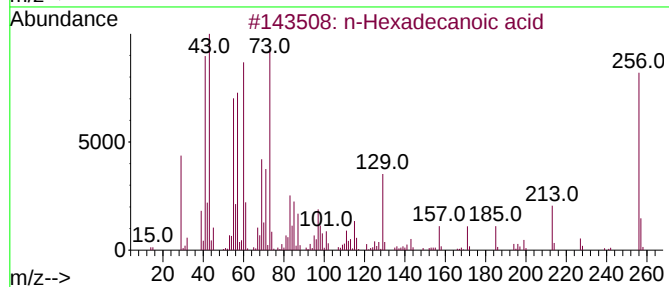
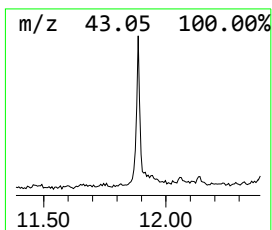
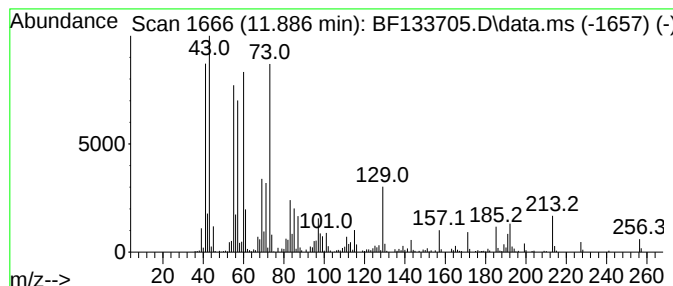
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.886 | 16.77 ng | 415626 | Phenanthrene-d10 | 11.357 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |
| 3    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 80   |
| 5    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 60   |



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Instrument :  
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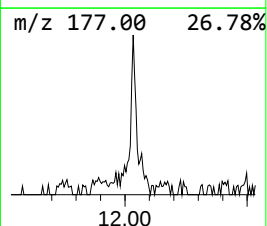
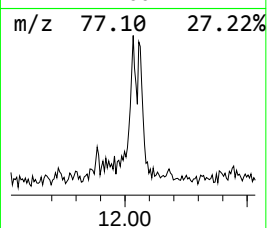
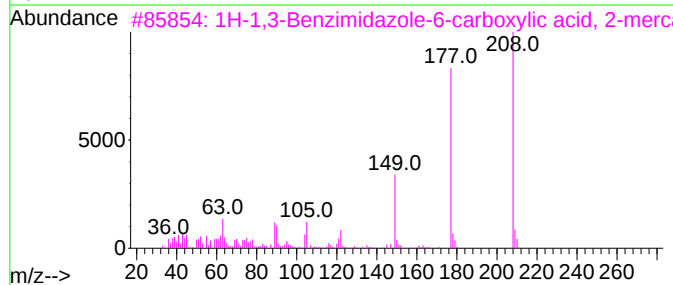
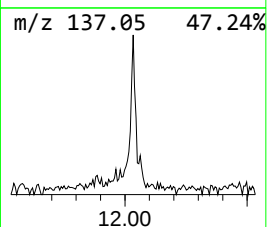
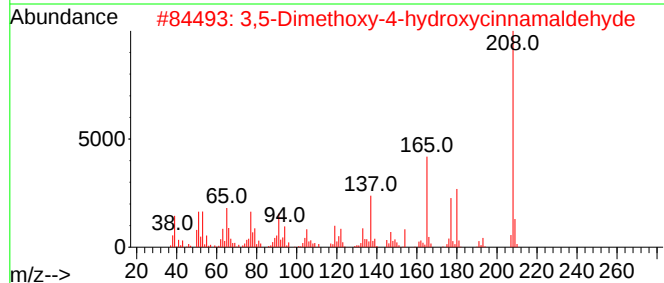
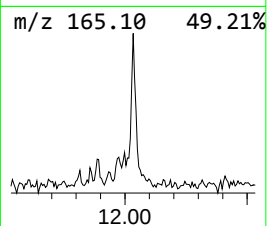
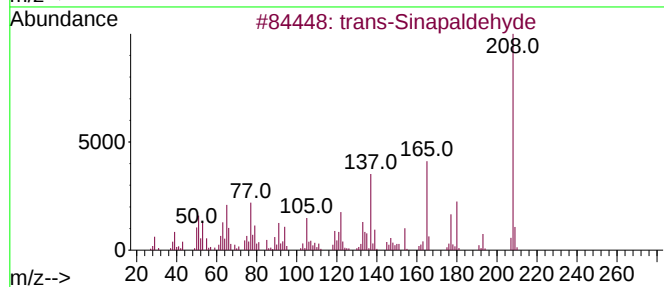
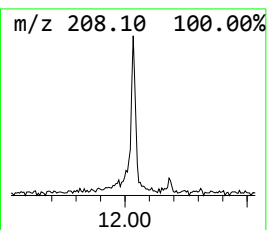
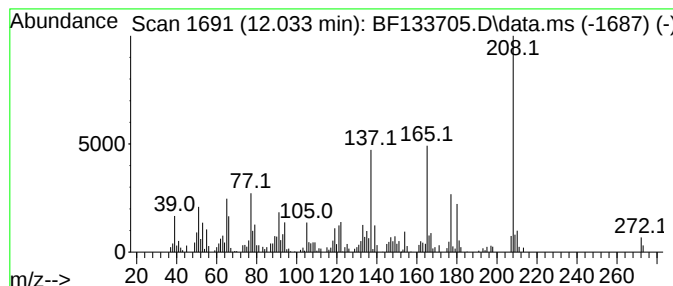
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 trans-Sinapaldehyde Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.033 | 5.67 ng | 140569 | Phenanthrene-d10 | 11.357 |

| Hit# | of | 5 | Tentative ID                           | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | trans-Sinapaldehyde                    | 208 | C11H12O4  | 004206-58-0  | 93   |
| 2    |    |   | 3,5-Dimethoxy-4-hydroxycinnamaldehyde  | 208 | C11H12O4  | 087345-53-7  | 90   |
| 3    |    |   | 1H-1,3-Benzimidazole-6-carboxylic acid | 208 | C9H8N2O2S | 1000337-18-1 | 38   |
| 4    |    |   | 2,4,7-Pteridinetriol, 6-ethyl-         | 208 | C8H8N4O3  | 031053-47-1  | 38   |
| 5    |    |   | Anthracene, 1-methoxy-                 | 208 | C15H12O   | 054458-84-3  | 38   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

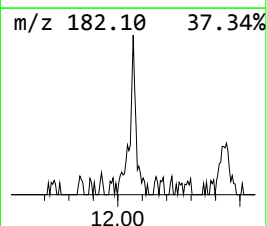
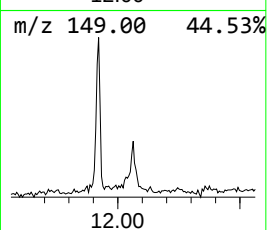
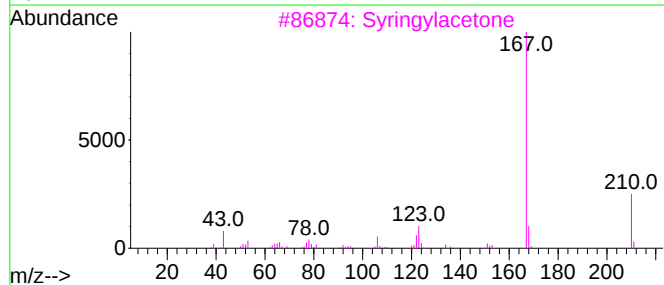
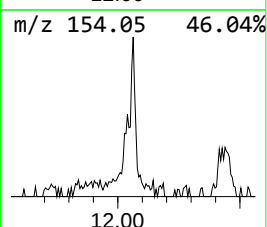
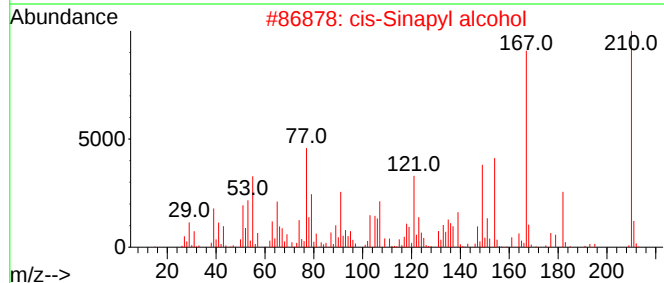
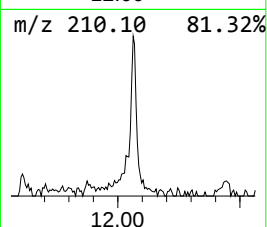
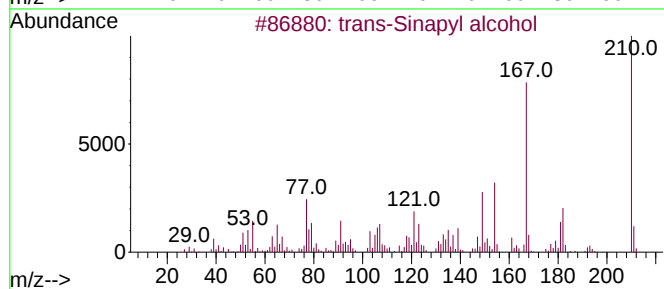
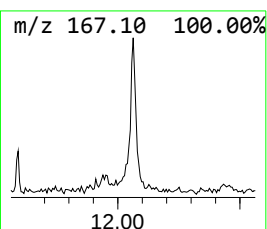
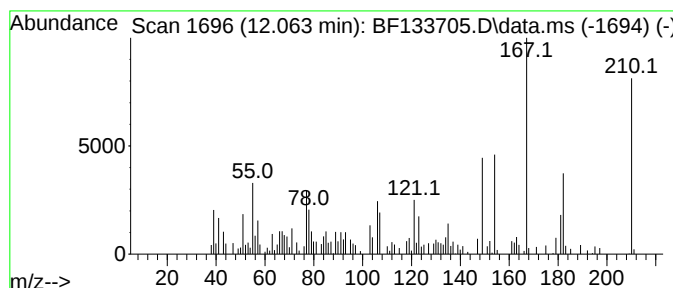
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 trans-Sinapyl alcohol Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 12.063    | 5.13 ng                             | 127266 | Phenanthrene-d10 | 11.357      |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | trans-Sinapyl alcohol               | 210    | C11H14O4         | 020675-96-1 | 94   |
| 2         | cis-Sinapyl alcohol                 | 210    | C11H14O4         | 104330-63-4 | 90   |
| 3         | Syringylacetone                     | 210    | C11H14O4         | 019037-58-2 | 43   |
| 4         | Phenol, 2-(2-imidazo[1,2-a]pyrid... | 210    | C13H10N2O        | 057636-32-5 | 25   |
| 5         | 4-Ethyl-2,6-dimethoxyphenol         | 182    | C10H14O3         | 014059-92-8 | 25   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

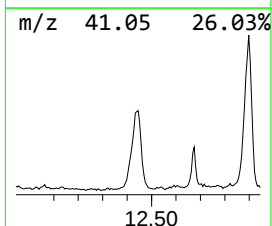
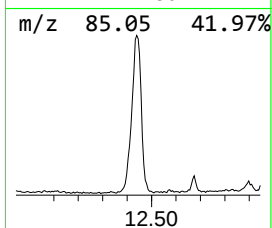
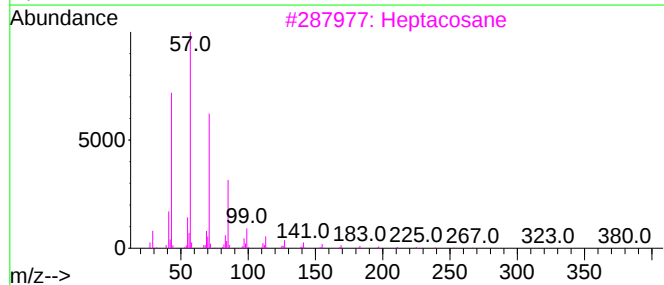
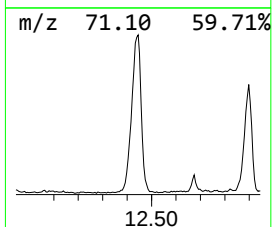
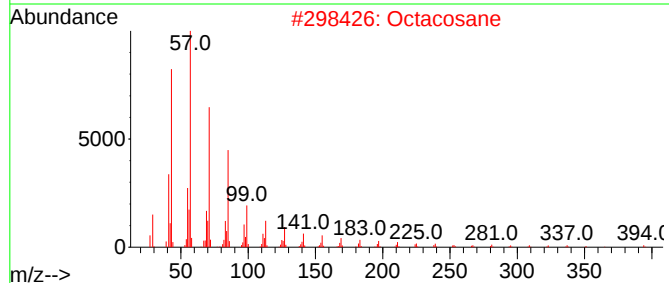
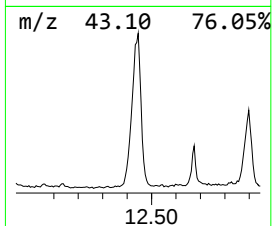
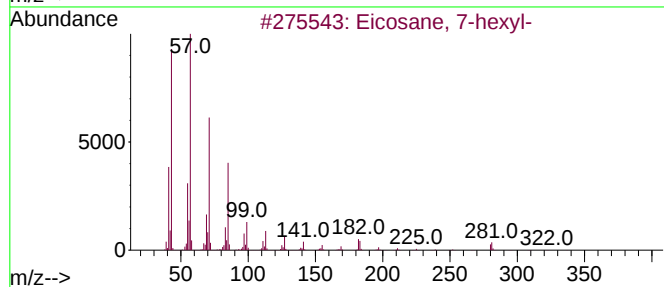
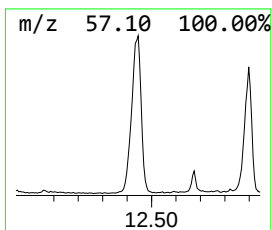
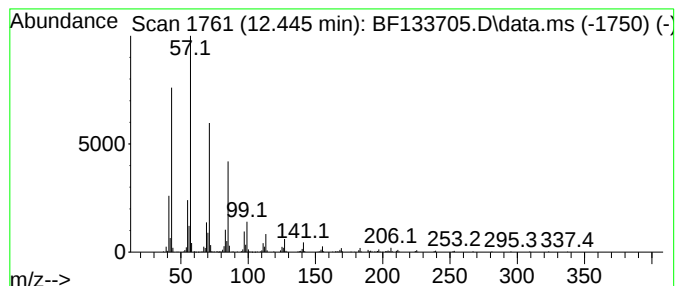
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Eicosane, 7-hexyl- Concentration Rank 3

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.445 | 51.00 ng | 1264220 | Phenanthrene-d10 | 11.357 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane, 7-hexyl- | 366 | C26H54  | 055333-99-8 | 91   |
| 2    |    |   | Octacosane         | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    |   | Heptacosane        | 380 | C27H56  | 000593-49-7 | 91   |
| 4    |    |   | Tetracosane        | 338 | C24H50  | 000646-31-1 | 91   |
| 5    |    |   | Hexacosane         | 366 | C26H54  | 000630-01-3 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

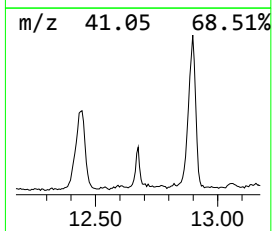
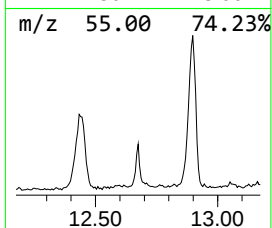
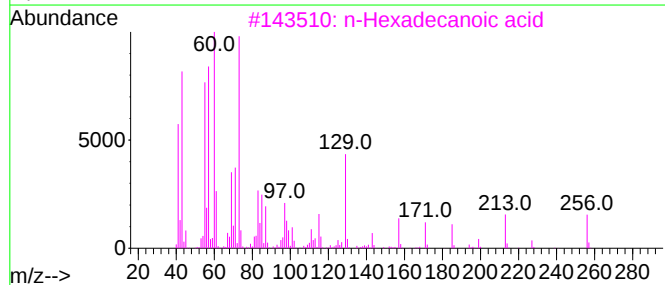
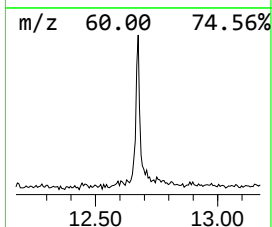
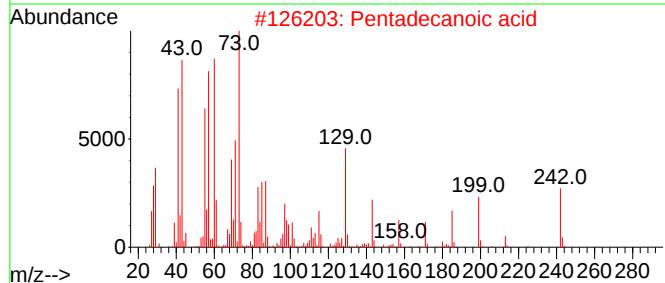
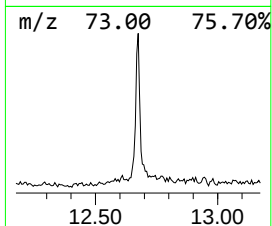
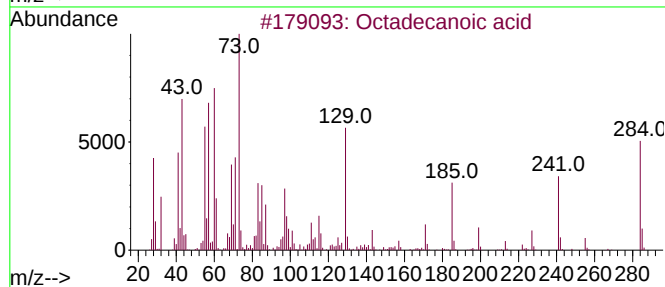
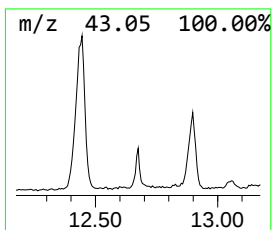
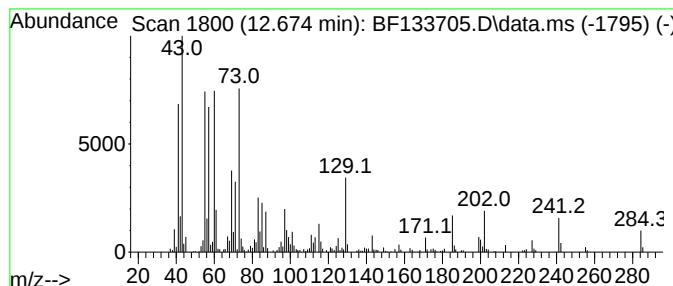
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Octadecanoic acid Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.674 | 8.37 ng | 207617 | Phenanthrene-d10 | 11.357 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid                   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3    |    |   | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3 | 93   |
| 4    |    |   | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 83   |
| 5    |    |   | Dodecanoic acid                     | 200 | C12H24O2 | 000143-07-7 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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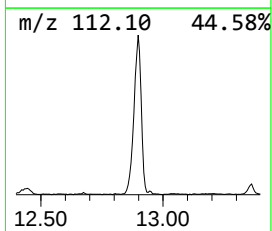
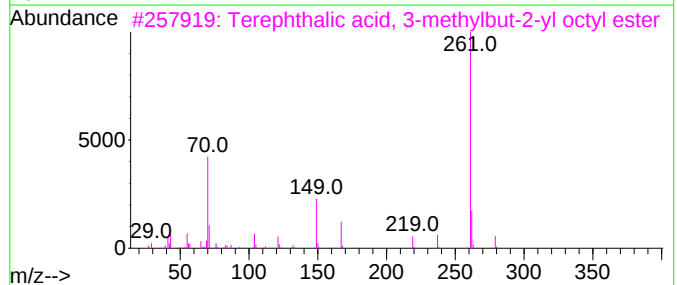
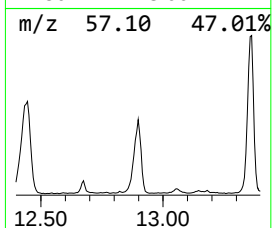
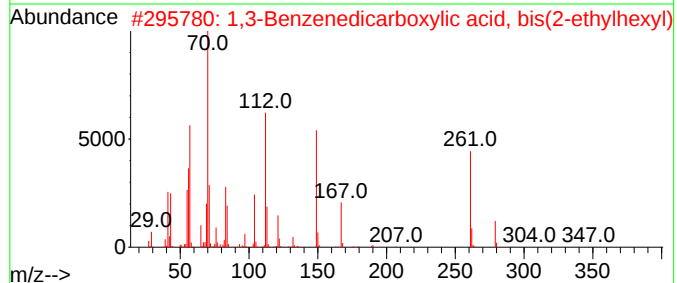
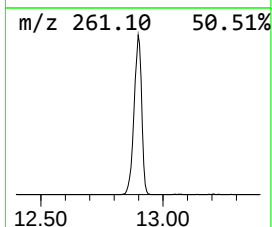
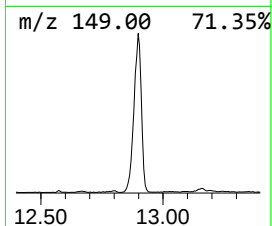
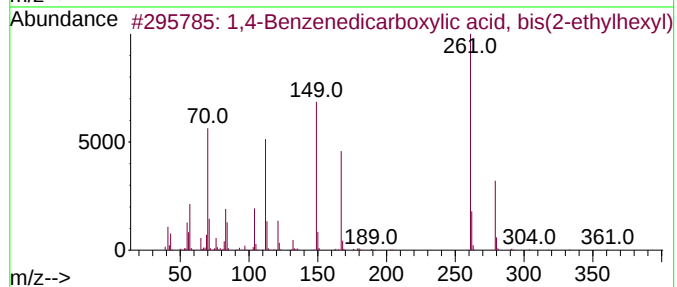
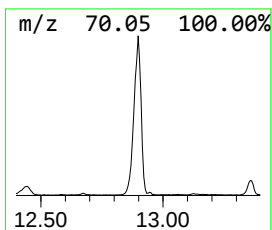
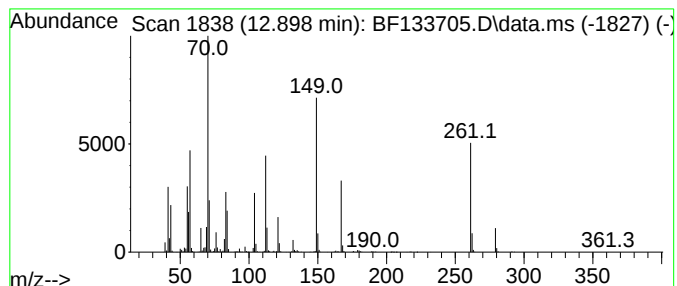
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 1,4-Benzenedicarboxylic aci... Concentration Rank 6

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.898 | 19.84 ng | 2363310 | Chrysene-d12     | 14.004 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 1,4-Benzenedicarboxylic acid, bi... | 390 | C24H38O4 | 006422-86-2  | 68   |
| 2    |    |   | 1,3-Benzenedicarboxylic acid, bi... | 390 | C24H38O4 | 000137-89-3  | 64   |
| 3    |    |   | Terephthalic acid, 3-methylbut-2... | 348 | C21H32O4 | 1000356-27-6 | 53   |
| 4    |    |   | Terephthalic acid, di(4-octyl) e... | 390 | C24H38O4 | 1000323-74-2 | 27   |
| 5    |    |   | Terephthalic acid, 3-hexyl octyl... | 362 | C22H34O4 | 1000356-23-1 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
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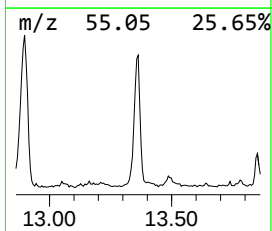
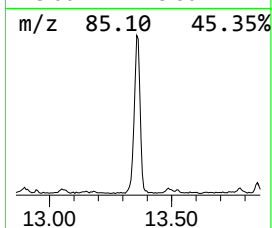
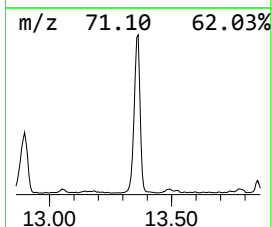
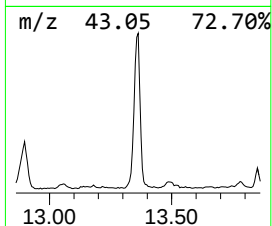
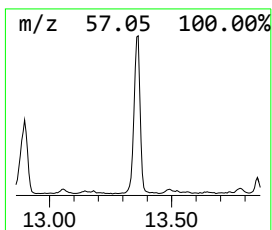
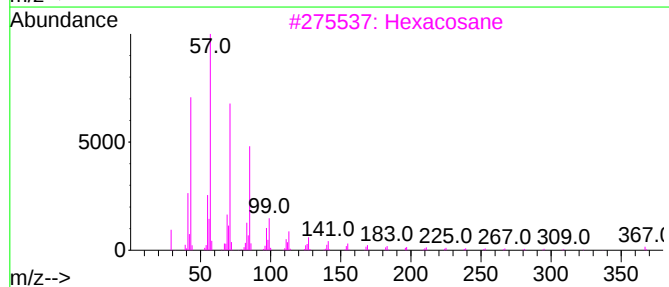
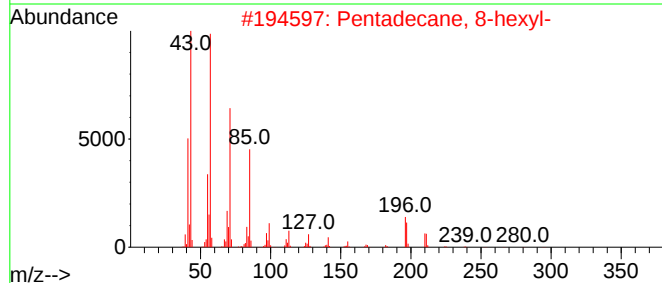
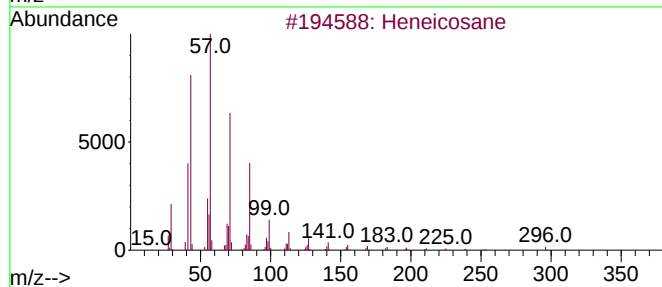
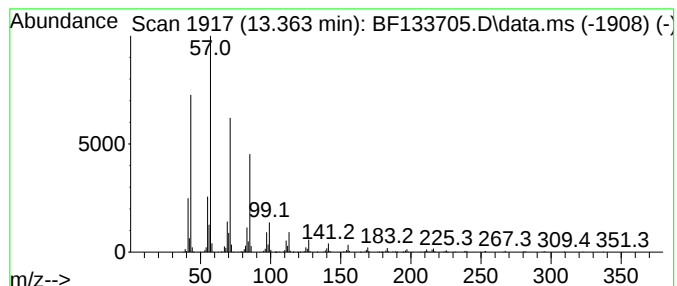
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heneicosane Concentration Rank 10

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 13.363 | 11.93 ng | 1421190 | Chrysene-d12     | 14.004 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------|-----|---------|-------------|------|
| 1    |      | Heneicosane           | 296 | C21H44  | 000629-94-7 | 97   |
| 2    |      | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 3    |      | Hexacosane            | 366 | C26H54  | 000630-01-3 | 94   |
| 4    |      | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 93   |
| 5    |      | Octacosane, 2-methyl- | 408 | C29H60  | 001560-98-1 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

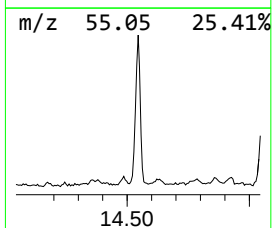
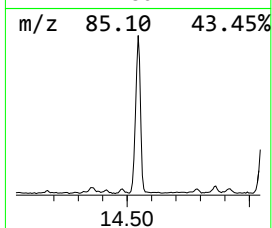
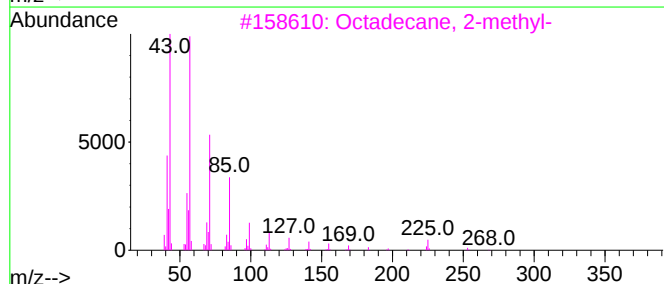
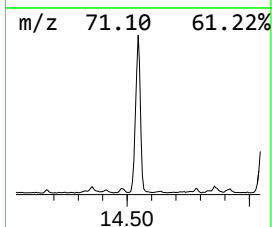
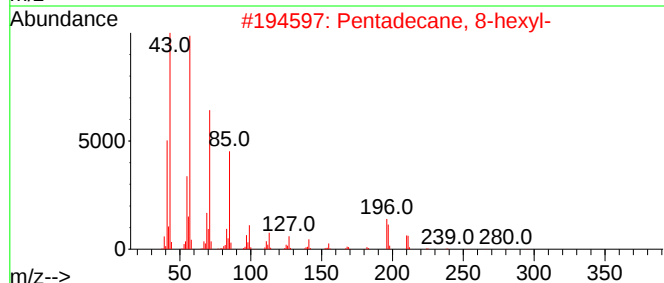
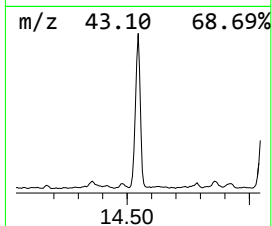
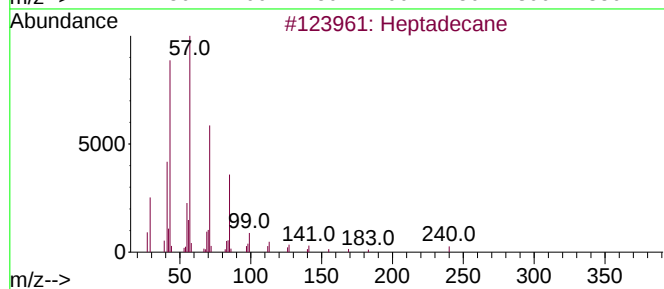
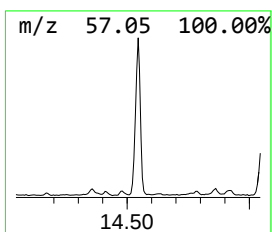
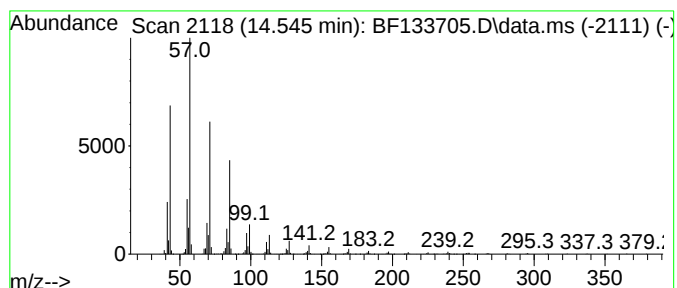
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Heptadecane Concentration Rank 9

| R.T.      | EstConc               | Area    | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------|---------|------------------|---------|-------------|------|
| 14.545    | 13.27 ng              | 1580350 | Chrysene-d12     |         | 14.004      |      |
| Hit# of 5 | Tentative ID          |         | MW               | MolForm | CAS#        | Qual |
| 1         | Heptadecane           |         | 240              | C17H36  | 000629-78-7 | 94   |
| 2         | Pentadecane, 8-hexyl- |         | 296              | C21H44  | 013475-75-7 | 94   |
| 3         | Octadecane, 2-methyl- |         | 268              | C19H40  | 001560-88-9 | 93   |
| 4         | Eicosane, 10-methyl-  |         | 296              | C21H44  | 054833-23-7 | 93   |
| 5         | Hexacosane            |         | 366              | C26H54  | 000630-01-3 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

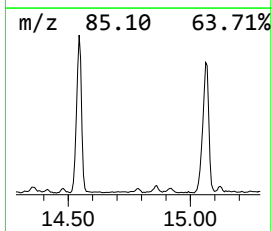
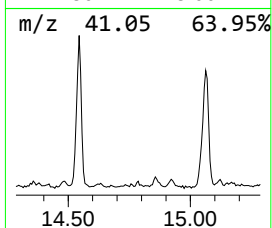
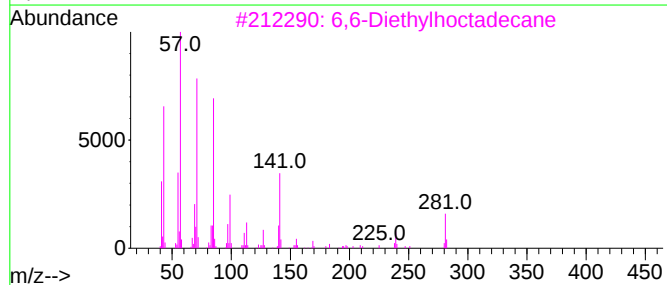
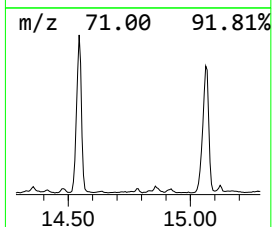
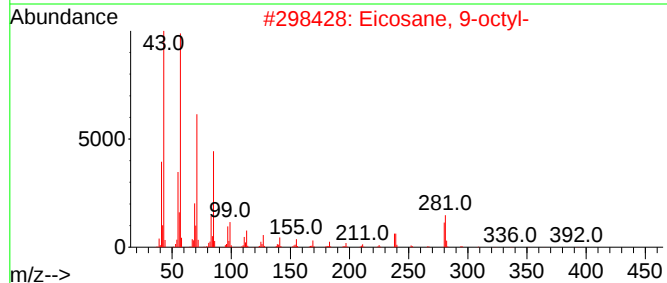
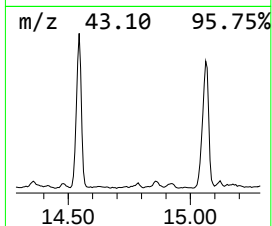
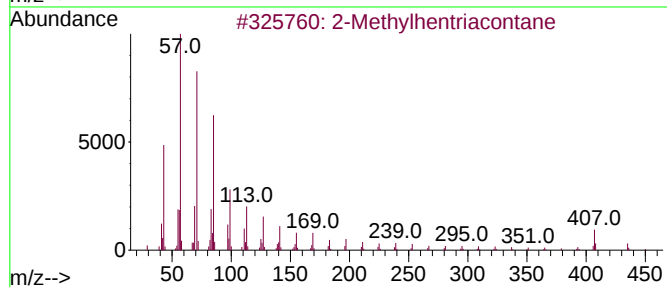
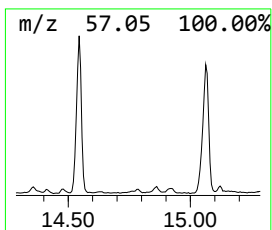
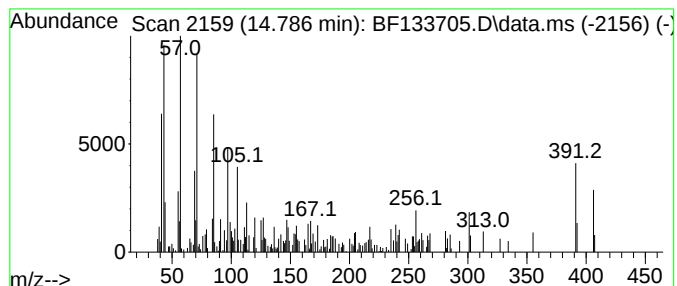
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown14.786 Concentration Rank 19

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 14.786 | 2.32 ng | 48680 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------|-----|---------|--------------|------|
| 1    |    |   | 2-Methylhentriacontane        | 451 | C32H66  | 001720-12-3  | 38   |
| 2    |    |   | Eicosane, 9-octyl-            | 394 | C28H58  | 013475-77-9  | 32   |
| 3    |    |   | 6,6-Diethylhooctadecane       | 310 | C22H46  | 1000360-41-8 | 32   |
| 4    |    |   | 13-Methylhentriacontane       | 451 | C32H66  | 1000131-19-4 | 23   |
| 5    |    |   | Hexadecane, 8-hexyl-8-pentyl- | 380 | C27H56  | 055282-29-6  | 23   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

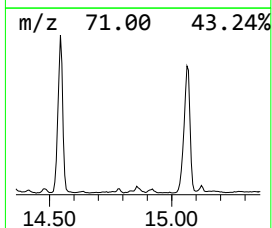
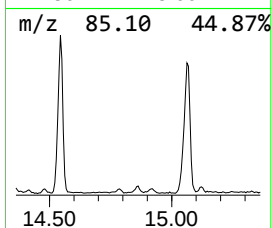
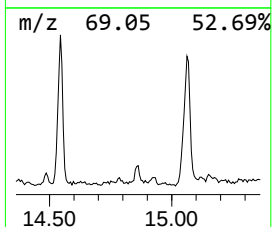
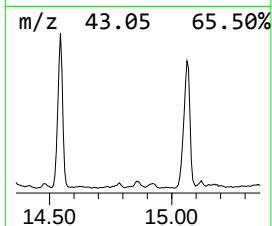
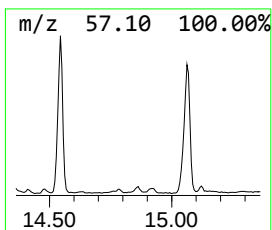
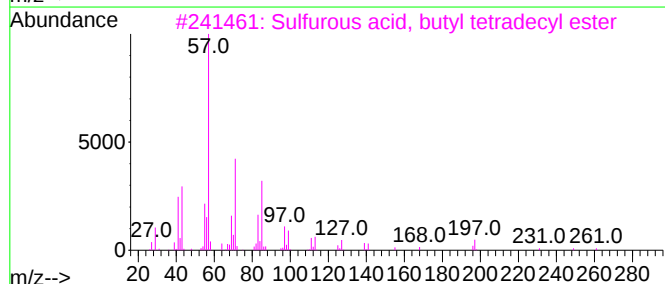
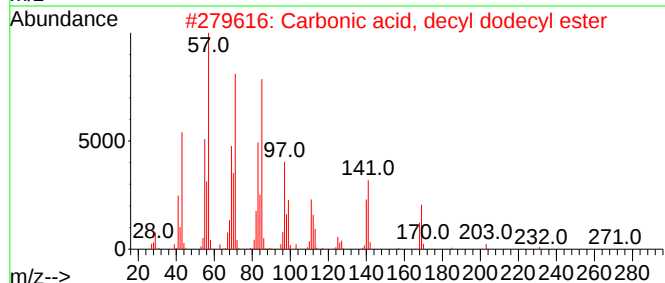
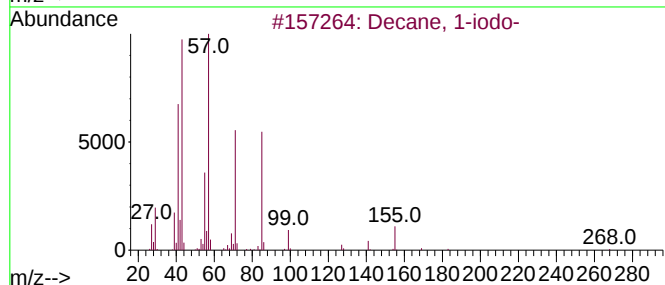
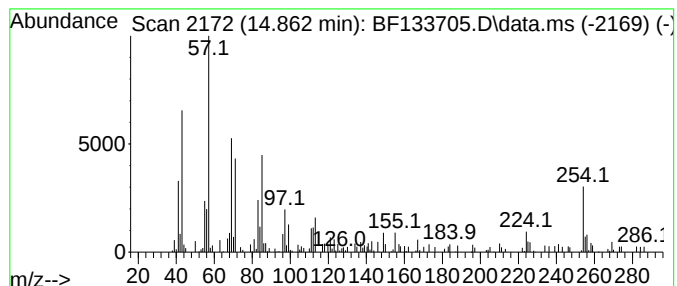
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Decane, 1-iodo- Concentration Rank 16

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 14.863 | 3.41 ng | 71602 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 1-iodo-                     | 268 | C10H21I   | 002050-77-3  | 55   |
| 2    |    |   | Carbonic acid, decyl dodecyl ester  | 370 | C23H46O3  | 1000383-16-1 | 49   |
| 3    |    |   | Sulfurous acid, butyl tetradecyl... | 334 | C18H38O3S | 1010309-18-1 | 47   |
| 4    |    |   | Isobutyl tetradecyl ether           | 270 | C18H38O   | 1000406-32-7 | 47   |
| 5    |    |   | Eicosane                            | 282 | C20H42    | 000112-95-8  | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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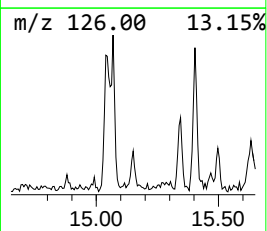
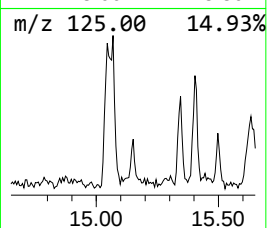
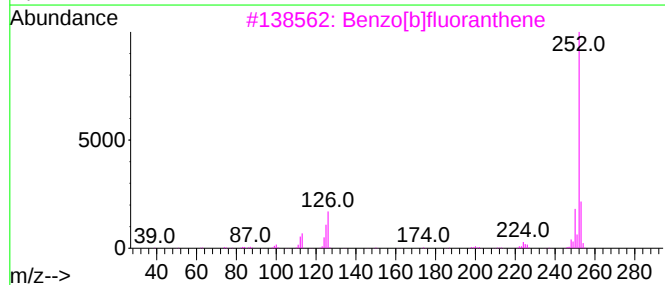
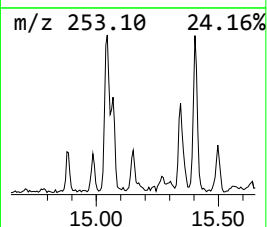
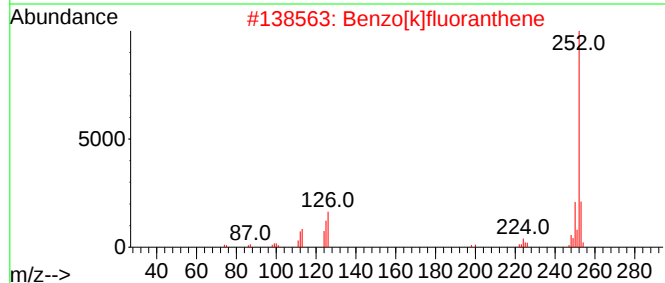
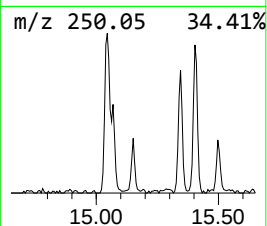
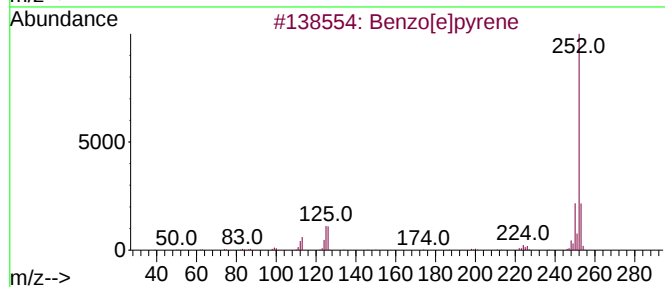
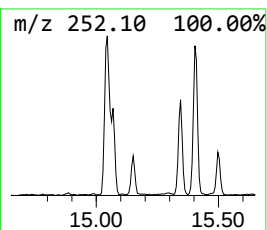
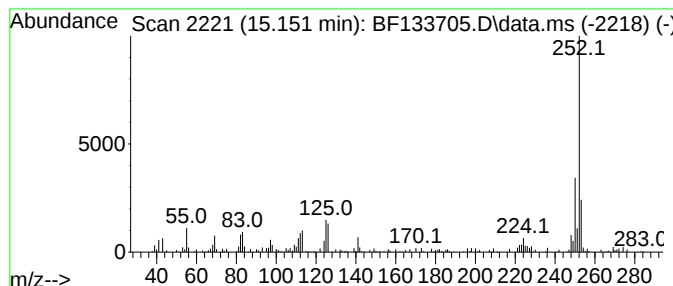
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Benzo[e]pyrene Concentration Rank 17

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 15.151 | 2.85 ng | 59849 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 95   |
| 2    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 93   |
| 3    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 89   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
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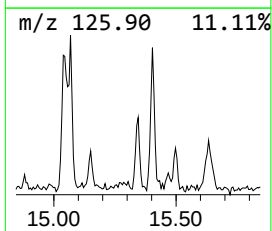
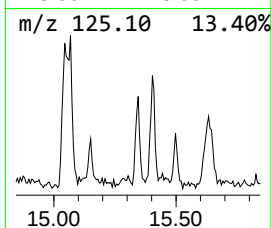
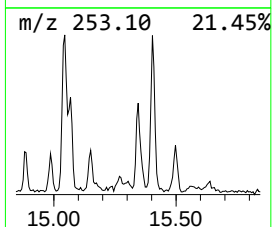
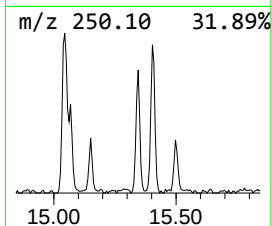
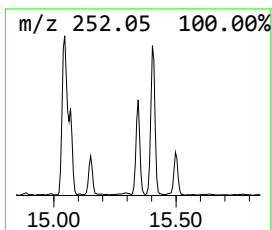
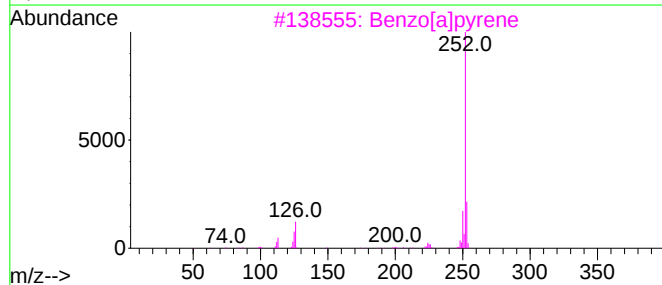
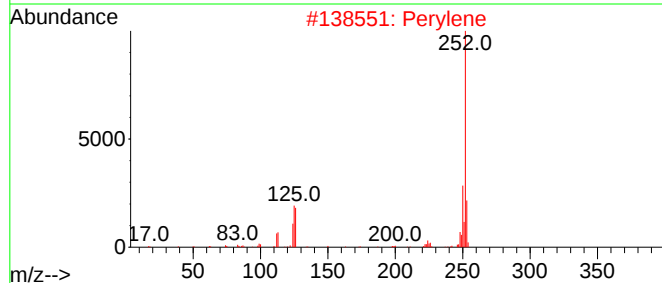
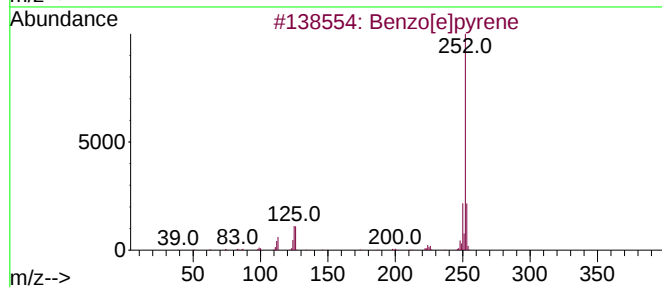
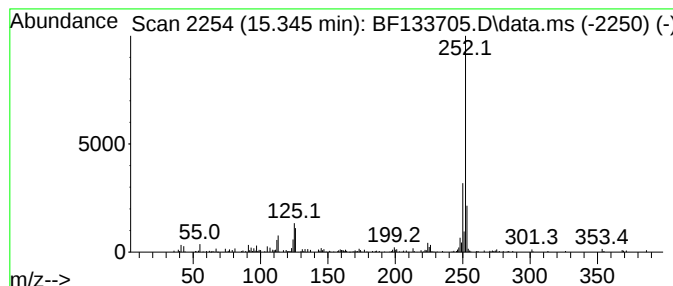
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Peak Number 14 Perylene Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.345 | 7.43 ng | 156023 | Perylene-d12     | 15.468 |

| 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 | 93   |
| 3    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 93   |
| 4    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 90   |
| 5    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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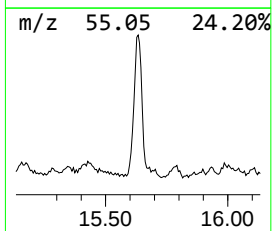
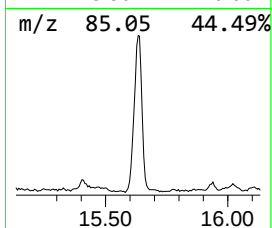
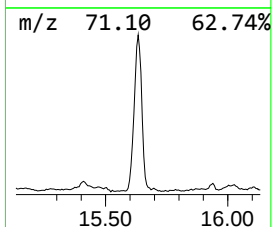
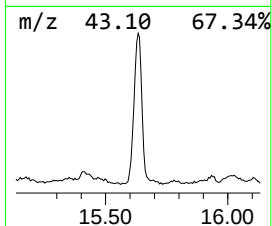
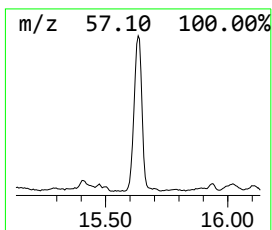
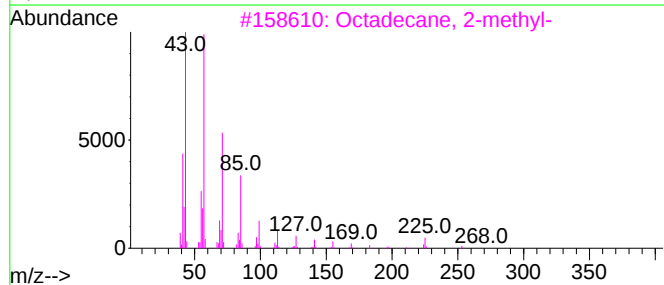
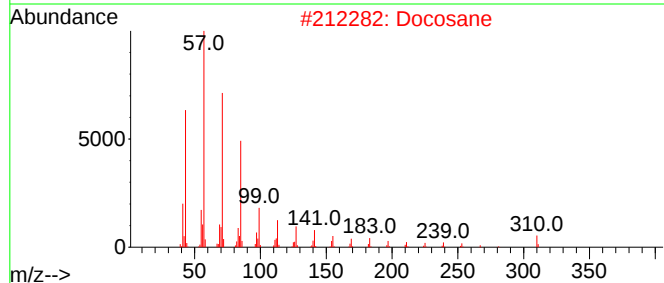
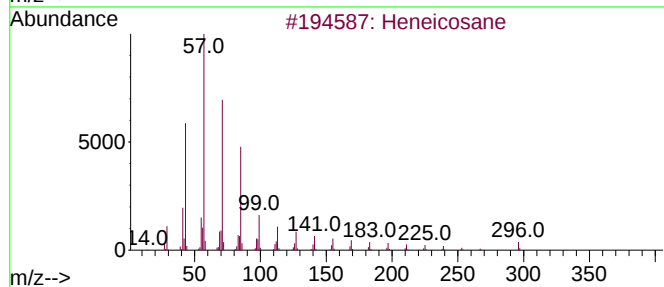
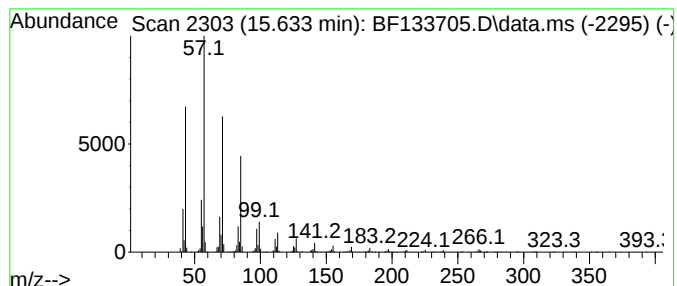
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Docosane Concentration Rank 1

| R.T.      | EstConc               | Area    | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|---------|------------------|-------------|------|
| 15.633    | 67.86 ng              | 1425670 | Perylene-d12     | 15.468      |      |
| Hit# of 5 | Tentative ID          | MW      | MolForm          | CAS#        | Qual |
| 1         | Heneicosane           | 296     | C21H44           | 000629-94-7 | 97   |
| 2         | Docosane              | 310     | C22H46           | 000629-97-0 | 95   |
| 3         | Octadecane, 2-methyl- | 268     | C19H40           | 001560-88-9 | 94   |
| 4         | Hexatriacontane       | 507     | C36H74           | 000630-06-8 | 91   |
| 5         | Tetracosane           | 338     | C24H50           | 000646-31-1 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

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SB32A

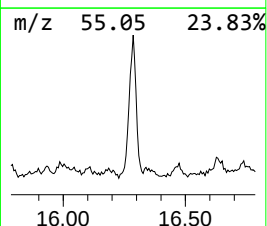
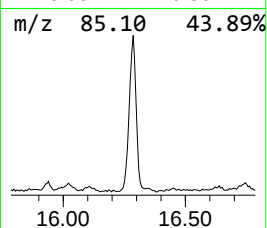
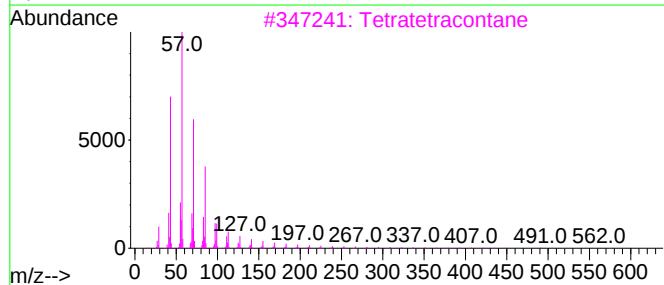
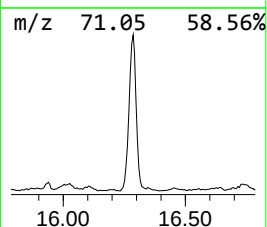
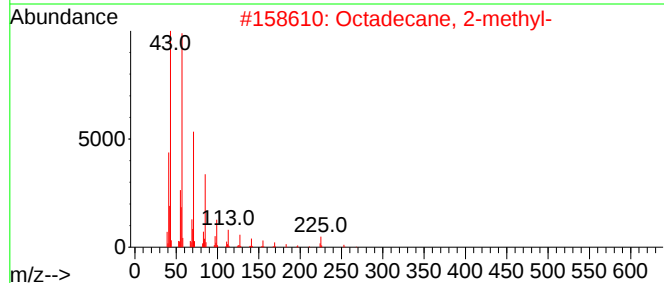
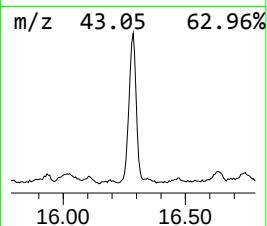
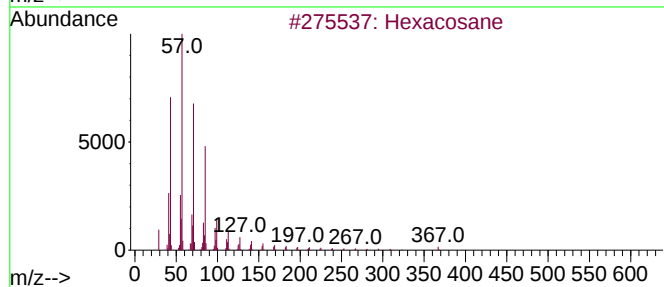
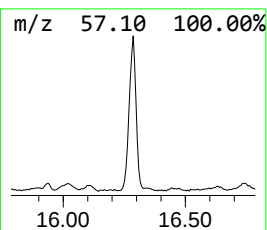
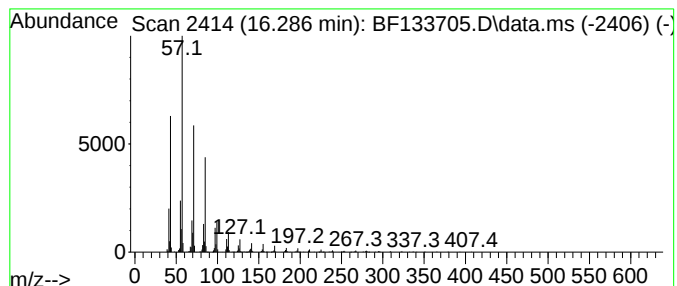
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Hexacosane Concentration Rank 2

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 16.286 | 56.72 ng | 1191620 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Hexacosane            | 366 | C26H54  | 000630-01-3 | 94   |
| 2    |    |   | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 94   |
| 3    |    |   | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 91   |
| 4    |    |   | Pentacosane           | 352 | C25H52  | 000629-99-2 | 91   |
| 5    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

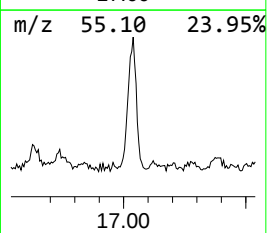
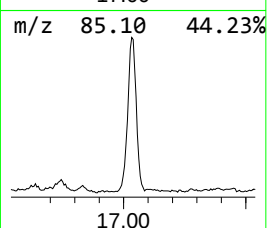
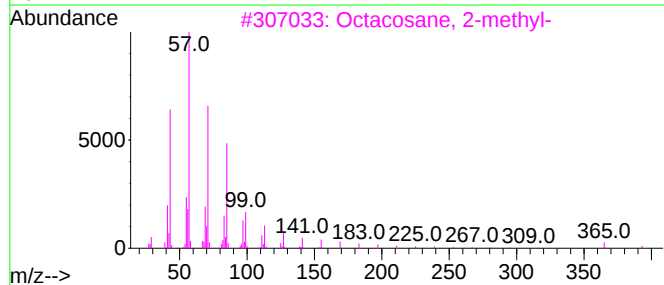
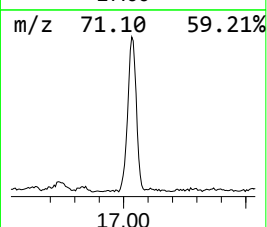
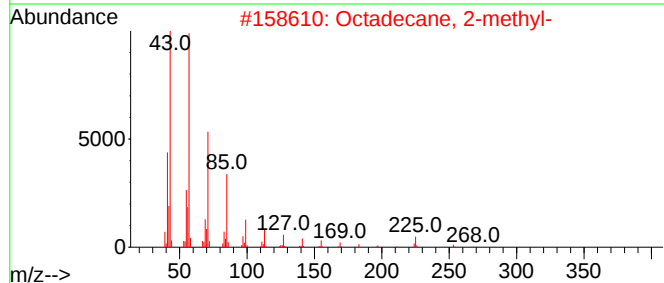
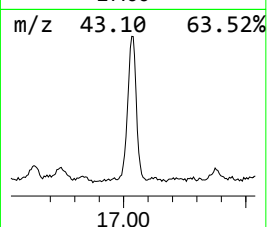
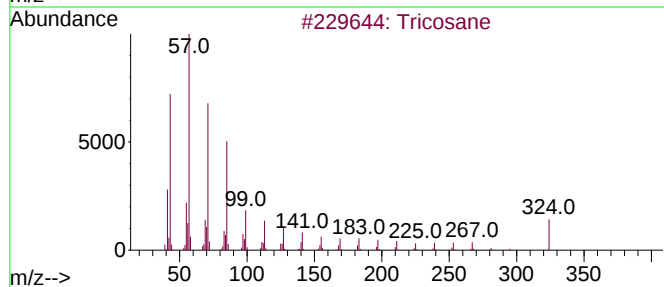
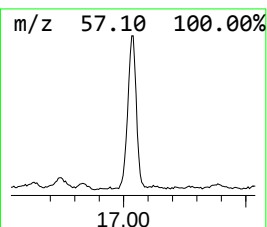
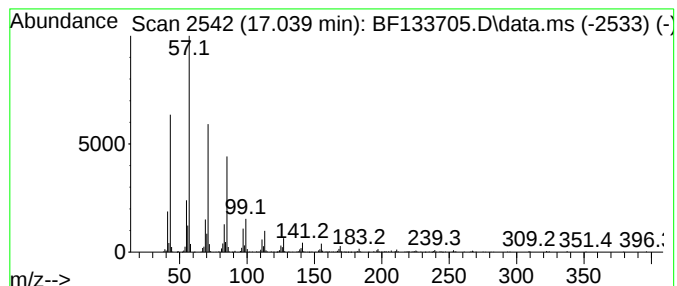
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Tricosane Concentration Rank 4

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 17.039 | 46.86 ng | 984455 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Tricosane             | 324 | C23H48  | 000638-67-5 | 94   |
| 2    |    |   | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 94   |
| 3    |    |   | Octacosane, 2-methyl- | 408 | C29H60  | 001560-98-1 | 91   |
| 4    |    |   | Pentacosane           | 352 | C25H52  | 000629-99-2 | 91   |
| 5    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

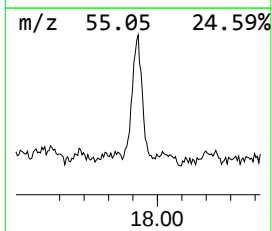
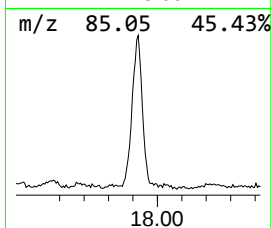
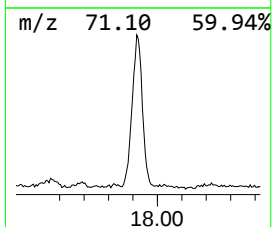
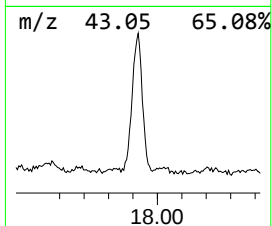
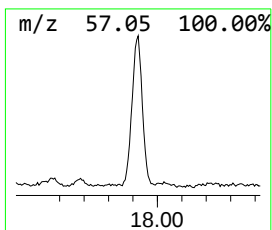
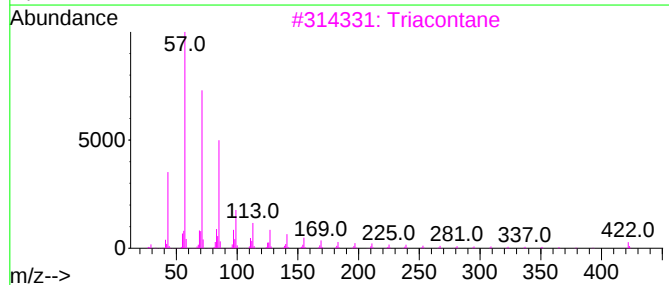
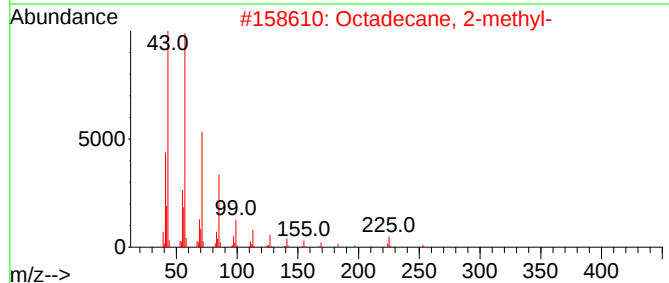
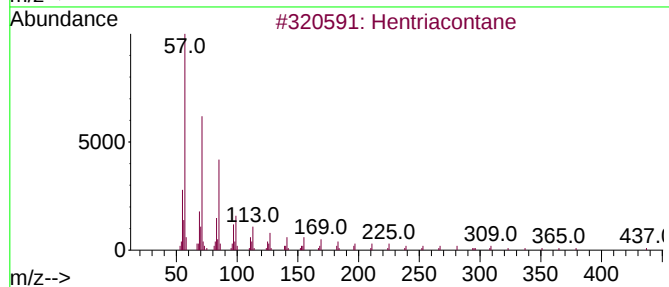
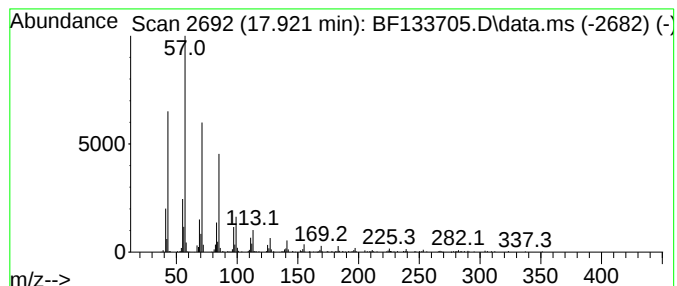
Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Octadecane, 2-methyl- Concentration Rank 5

| R.T.      | EstConc               | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------|--------|------------------|---------|-------------|------|
| 17.921    | 37.41 ng              | 785885 | Perylene-d12     |         | 15.468      |      |
| Hit# of 5 | Tentative ID          |        | MW               | MolForm | CAS#        | Qual |
| 1         | Hentriacontane        |        | 437              | C31H64  | 000630-04-6 | 94   |
| 2         | Octadecane, 2-methyl- |        | 268              | C19H40  | 001560-88-9 | 93   |
| 3         | Triacontane           |        | 422              | C30H62  | 000638-68-6 | 91   |
| 4         | Heptadecane, 9-octyl- |        | 352              | C25H52  | 007225-64-1 | 91   |
| 5         | Octacosane            |        | 394              | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133705.D  
Acq On : 12 Jun 2023 15:48  
Operator : CG\JU  
Sample : 03047-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

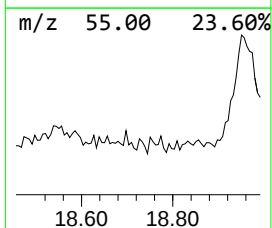
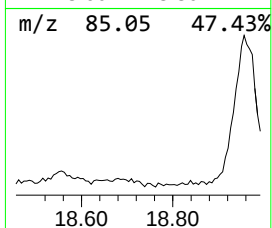
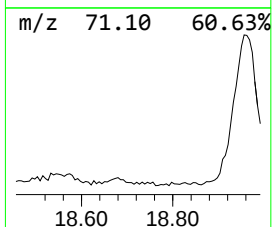
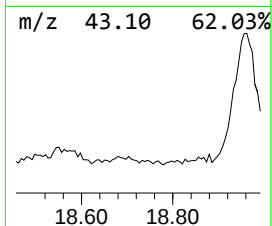
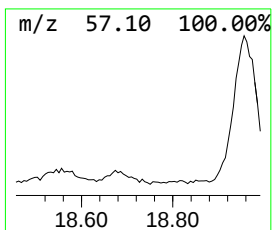
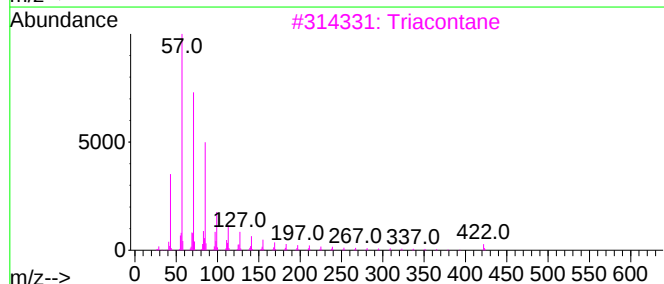
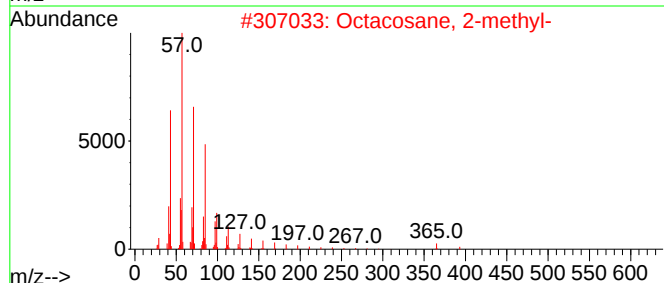
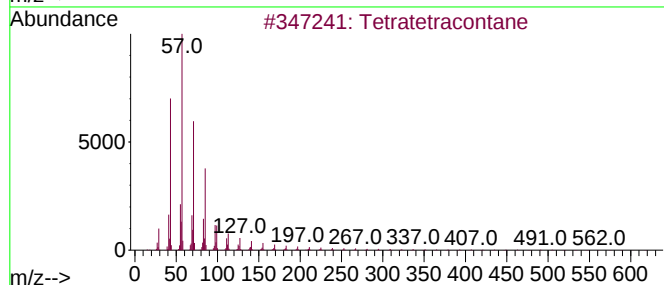
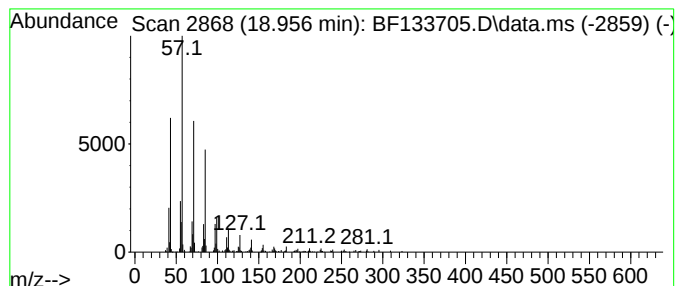
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Tetratetracontane Concentration Rank 8

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 18.956 | 16.63 ng | 349358 | Perylene-d12     | 15.468 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------|-----|---------|-------------|------|
| 1    |      | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 91   |
| 2    |      | Octacosane, 2-methyl- | 408 | C29H60  | 001560-98-1 | 91   |
| 3    |      | Triacontane           | 422 | C30H62  | 000638-68-6 | 87   |
| 4    |      | Eicosane              | 282 | C20H42  | 000112-95-8 | 87   |
| 5    |      | Heptacosane           | 380 | C27H56  | 000593-49-7 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
 Data File : BF133705.D  
 Acq On : 12 Jun 2023 15:48  
 Operator : CG\JU  
 Sample : 03047-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB32A

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Hentriacontane     | 10.022 | 2.7     | ng    | 77546    | 3                     | 9.869  | 565576  | 20.0 |
| Benzophenone       | 10.586 | 3.6     | ng    | 102712   | 3                     | 9.869  | 565576  | 20.0 |
| n-Hexadecanoic ... | 11.886 | 16.8    | ng    | 415626   | 4                     | 11.357 | 495812  | 20.0 |
| trans-Sinapalde... | 12.033 | 5.7     | ng    | 140569   | 4                     | 11.357 | 495812  | 20.0 |
| trans-Sinapyl a... | 12.063 | 5.1     | ng    | 127266   | 4                     | 11.357 | 495812  | 20.0 |
| Eicosane, 7-hexyl- | 12.445 | 51.0    | ng    | 1264220  | 4                     | 11.357 | 495812  | 20.0 |
| Octadecanoic acid  | 12.674 | 8.4     | ng    | 207617   | 4                     | 11.357 | 495812  | 20.0 |
| 1,4-Benzenedica... | 12.898 | 19.8    | ng    | 2363310  | 5                     | 14.004 | 2381790 | 20.0 |
| Heneicosane        | 13.363 | 11.9    | ng    | 1421190  | 5                     | 14.004 | 2381790 | 20.0 |
| Heptadecane        | 14.545 | 13.3    | ng    | 1580350  | 5                     | 14.004 | 2381790 | 20.0 |
| unknown14.786      | 14.786 | 2.3     | ng    | 48680    | 6                     | 15.468 | 420167  | 20.0 |
| Decane, 1-iodo-    | 14.863 | 3.4     | ng    | 71602    | 6                     | 15.468 | 420167  | 20.0 |
| Benzo[e]pyrene     | 15.151 | 2.9     | ng    | 59849    | 6                     | 15.468 | 420167  | 20.0 |
| Perylene           | 15.345 | 7.4     | ng    | 156023   | 6                     | 15.468 | 420167  | 20.0 |
| Docosane           | 15.633 | 67.9    | ng    | 1425670  | 6                     | 15.468 | 420167  | 20.0 |
| Hexacosane         | 16.286 | 56.7    | ng    | 1191620  | 6                     | 15.468 | 420167  | 20.0 |
| Tricosane          | 17.039 | 46.9    | ng    | 984455   | 6                     | 15.468 | 420167  | 20.0 |
| Octadecane, 2-m... | 17.921 | 37.4    | ng    | 785885   | 6                     | 15.468 | 420167  | 20.0 |
| Tetratetracontane  | 18.956 | 16.6    | ng    | 349358   | 6                     | 15.468 | 420167  | 20.0 |