

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
 Data File : BF128809.D  
 Acq On : 14 Jun 2022 19:44  
 Operator : CG\JU  
 Sample : N3336-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-061322

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-BF060222.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF128809.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         | 5.416       | 529           | 532         | 547          | rBV      | 2197330        | 1961411       | 34.65%          | 6.805%        |
| 2         | 6.051       | 636           | 640         | 643          | rVB      | 86260          | 75971         | 1.34%           | 0.264%        |
| 3         | 6.433       | 701           | 705         | 710          | rBV      | 2232003        | 1969847       | 34.80%          | 6.835%        |
| 4         | 6.774       | 760           | 763         | 767          | rVB      | 576796         | 506860        | 8.95%           | 1.759%        |
| 5         | 7.345       | 855           | 860         | 863          | rBV      | 1500364        | 1326654       | 23.44%          | 4.603%        |
| 6         | 8.063       | 975           | 982         | 985          | rBV      | 750659         | 611605        | 10.80%          | 2.122%        |
| 7         | 9.139       | 1160          | 1165        | 1168         | rBV      | 2733160        | 2195792       | 38.79%          | 7.619%        |
| 8         | 9.662       | 1251          | 1254        | 1260         | rBV2     | 63668          | 78726         | 1.39%           | 0.273%        |
| 9         | 9.815       | 1277          | 1280        | 1283         | rVB      | 763492         | 597376        | 10.55%          | 2.073%        |
| 10        | 10.609      | 1411          | 1415        | 1418         | rBV      | 1190961        | 961440        | 16.98%          | 3.336%        |
| 11        | 11.304      | 1530          | 1533        | 1535         | rBV      | 626552         | 505104        | 8.92%           | 1.753%        |
| 12        | 11.327      | 1535          | 1537        | 1541         | rVV      | 196705         | 151234        | 2.67%           | 0.525%        |
| 13        | 11.380      | 1541          | 1546        | 1549         | rVB      | 63327          | 58327         | 1.03%           | 0.202%        |
| 14        | 11.704      | 1597          | 1601        | 1604         | rBV      | 1459098        | 1258903       | 22.24%          | 4.368%        |
| 15        | 11.839      | 1621          | 1624        | 1629         | rBV2     | 118246         | 137706        | 2.43%           | 0.478%        |
| 16        | 11.915      | 1634          | 1637        | 1640         | rBV2     | 81665          | 91859         | 1.62%           | 0.319%        |
| 17        | 12.356      | 1707          | 1712        | 1714         | rBV2     | 65604          | 83195         | 1.47%           | 0.289%        |
| 18        | 12.398      | 1714          | 1719        | 1720         | rVV      | 5723921        | 5660909       | 100.00%         | 19.641%       |
| 19        | 12.415      | 1720          | 1722        | 1728         | rVV2     | 4050769        | 3392662       | 59.93%          | 11.771%       |
| 20        | 12.498      | 1732          | 1736        | 1738         | rBV      | 612291         | 575468        | 10.17%          | 1.997%        |
| 21        | 12.521      | 1738          | 1740        | 1743         | rVB      | 499690         | 381478        | 6.74%           | 1.324%        |
| 22        | 12.621      | 1753          | 1757        | 1761         | rBV3     | 58320          | 91168         | 1.61%           | 0.316%        |
| 23        | 12.751      | 1773          | 1779        | 1782         | rBV      | 542259         | 536369        | 9.47%           | 1.861%        |
| 24        | 12.898      | 1800          | 1804        | 1807         | rVB      | 1710450        | 1465404       | 25.89%          | 5.084%        |
| 25        | 12.974      | 1812          | 1817        | 1820         | rBV2     | 41550          | 72826         | 1.29%           | 0.253%        |
| 26        | 13.080      | 1832          | 1835        | 1839         | rVB      | 103192         | 114112        | 2.02%           | 0.396%        |
| 27        | 13.145      | 1844          | 1846        | 1849         | rVB      | 79040          | 65496         | 1.16%           | 0.227%        |
| 28        | 13.180      | 1849          | 1852        | 1857         | rBV2     | 65761          | 89576         | 1.58%           | 0.311%        |
| 29        | 13.274      | 1866          | 1868        | 1871         | rBV2     | 71084          | 86671         | 1.53%           | 0.301%        |
| 30        | 13.398      | 1884          | 1889        | 1893         | rVB2     | 55983          | 79450         | 1.40%           | 0.276%        |
| 31        | 13.797      | 1954          | 1957        | 1962         | rVB      | 101967         | 83863         | 1.48%           | 0.291%        |
| 32        | 13.892      | 1971          | 1973        | 1976         | rVB2     | 70354          | 61894         | 1.09%           | 0.215%        |
| 33        | 13.950      | 1978          | 1983        | 1985         | rVV2     | 688706         | 859864        | 15.19%          | 2.983%        |
| 34        | 13.974      | 1985          | 1987        | 1993         | rVB      | 305301         | 283119        | 5.00%           | 0.982%        |
| 35        | 14.050      | 1995          | 2000        | 2004         | rBV2     | 342172         | 401942        | 7.10%           | 1.395%        |
| 36        | 14.421      | 2060          | 2063        | 2067         | rBV2     | 74847          | 83298         | 1.47%           | 0.289%        |

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Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

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-BF060222.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 37 | 14.868 | 2136 | 2139 | 2143 | rVB2 | 71096  | 69536  | 1.23% | 0.241% |
| 38 | 14.986 | 2155 | 2159 | 2162 | rBV  | 284680 | 434914 | 7.68% | 1.509% |
| 39 | 15.056 | 2168 | 2171 | 2174 | rVB  | 88845  | 87240  | 1.54% | 0.303% |
| 40 | 15.280 | 2206 | 2209 | 2215 | rVB  | 175284 | 197460 | 3.49% | 0.685% |
| 41 | 15.344 | 2216 | 2220 | 2224 | rVB  | 271555 | 321670 | 5.68% | 1.116% |
| 42 | 15.403 | 2226 | 2230 | 2234 | rBV  | 353956 | 452612 | 8.00% | 1.570% |
| 43 | 16.838 | 2470 | 2474 | 2483 | rVB  | 80846  | 180668 | 3.19% | 0.627% |
| 44 | 17.274 | 2544 | 2548 | 2556 | rVB2 | 66752  | 119768 | 2.12% | 0.416% |

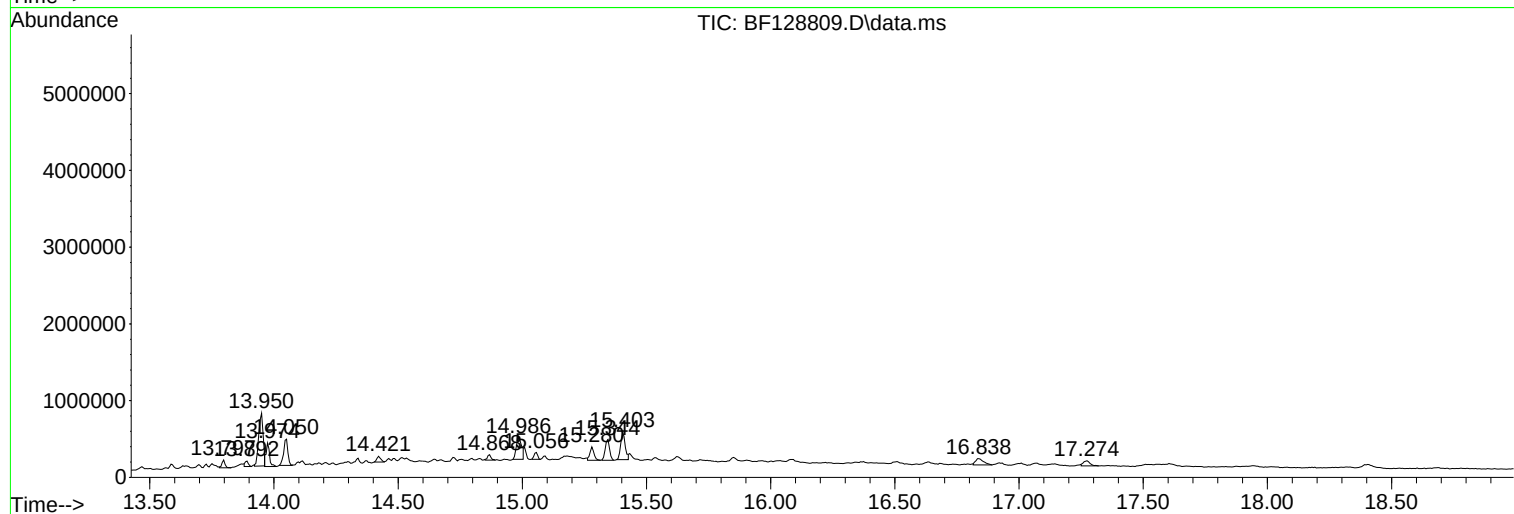
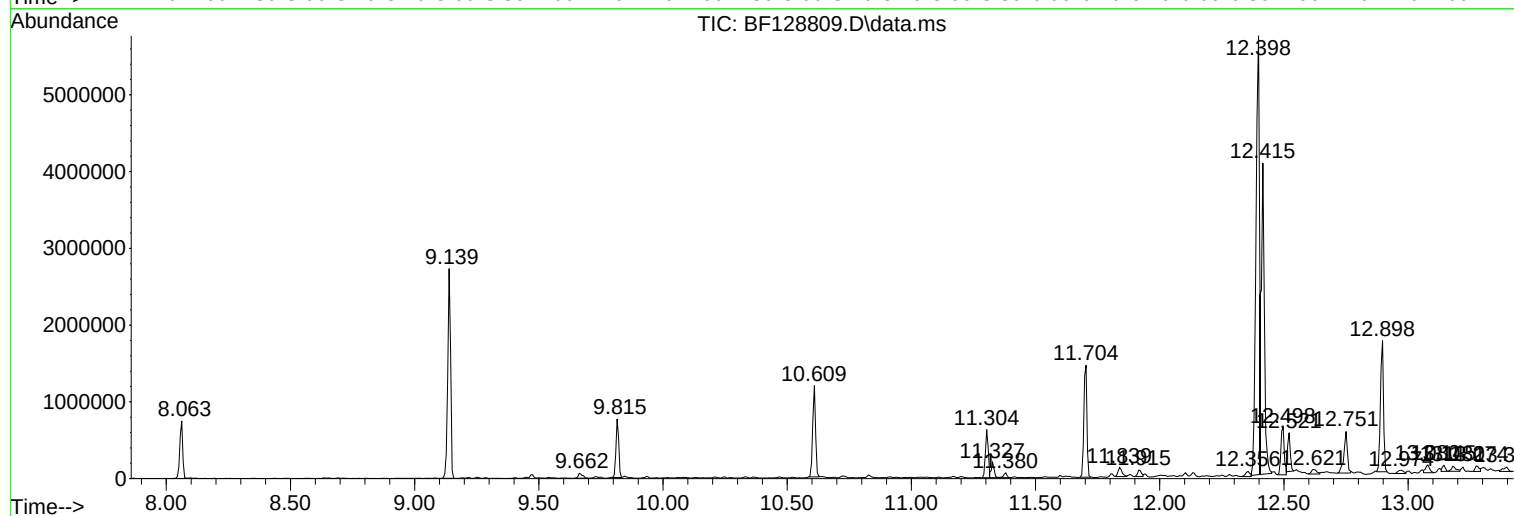
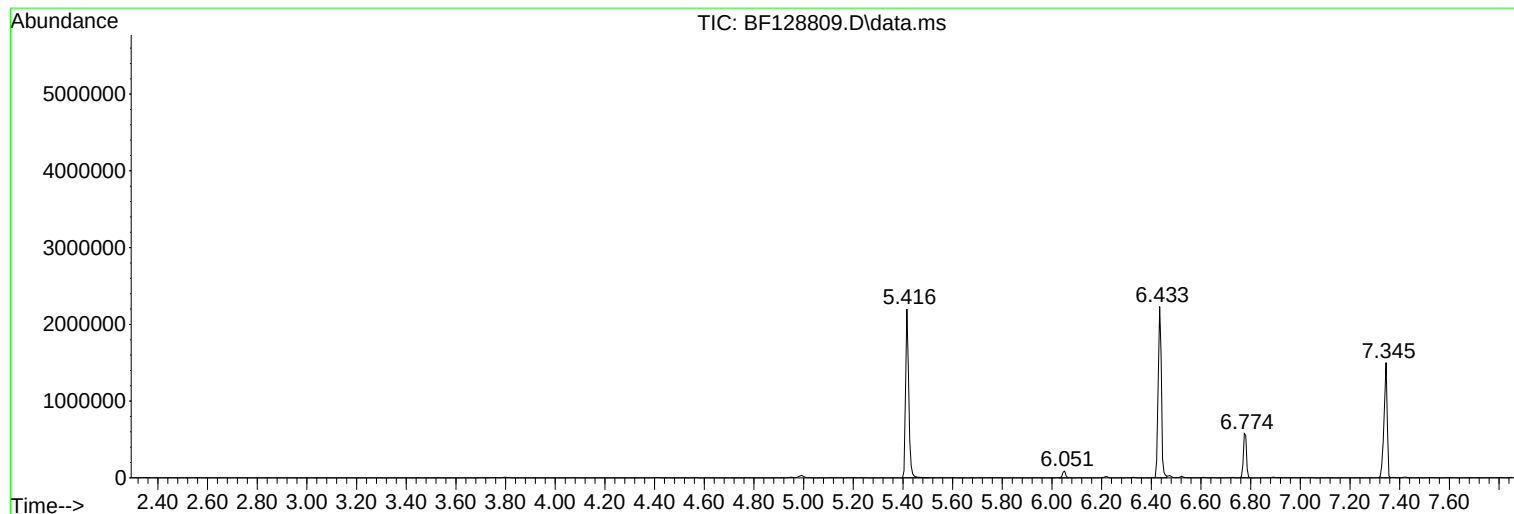
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
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BNA\_F  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : 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\BF061422\  
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Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

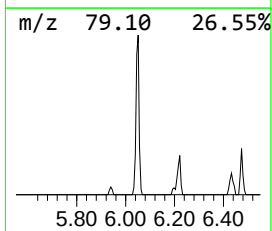
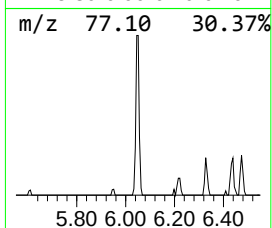
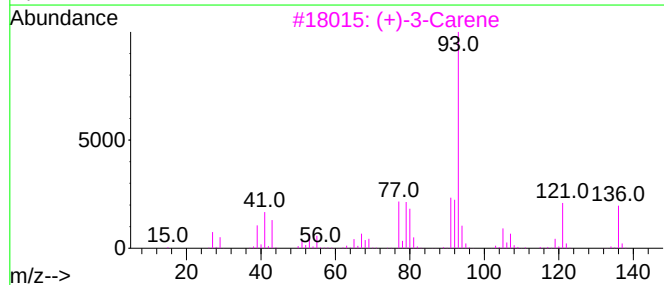
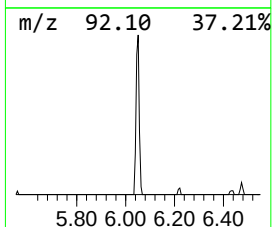
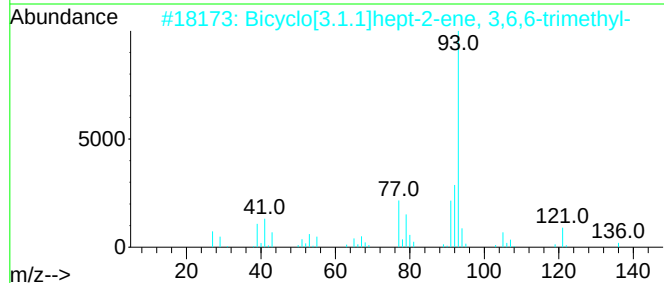
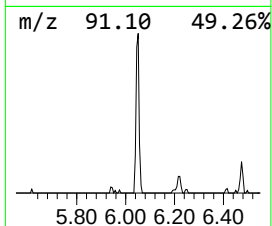
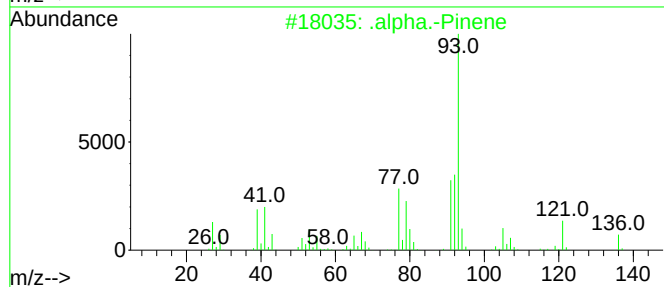
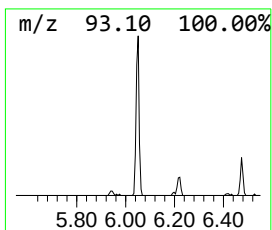
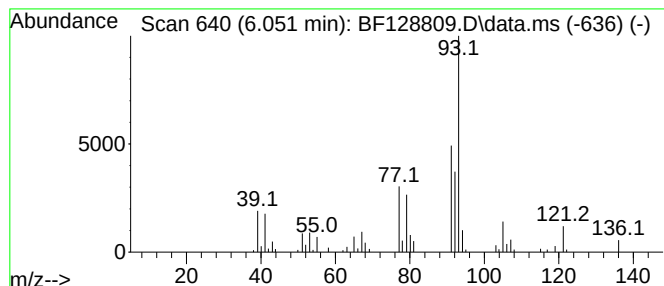
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 .alpha.-Pinene Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD       | R.T.  |
|-------|---------|-------|------------------------|-------|
| 6.051 | 3.00 ng | 75971 | 1,4-Dichlorobenzene-d4 | 6.780 |

| Hit# | of                                  | 5 | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------------|---|----------------|-----|---------|-------------|------|
| 1    | .                                   |   | .alpha.-Pinene | 136 | C10H16  | 000080-56-8 | 94   |
| 2    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... |   |                | 136 | C10H16  | 004889-83-2 | 91   |
| 3    | (+)-3-Carene                        |   |                | 136 | C10H16  | 000498-15-7 | 91   |
| 4    | Tricyclo[2.2.1.0(2,6)]heptane, 1... |   |                | 136 | C10H16  | 000508-32-7 | 91   |
| 5    | 3-Carene                            |   |                | 136 | C10H16  | 013466-78-9 | 91   |



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ClientSampleId :  
HD-02-061322

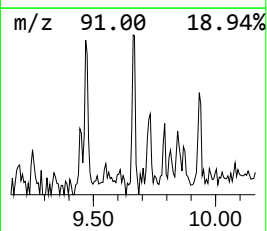
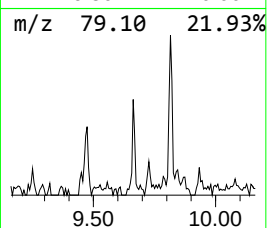
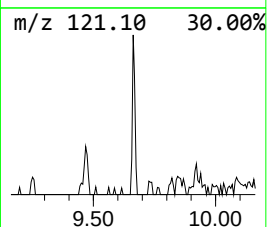
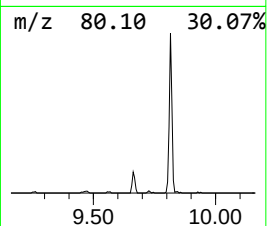
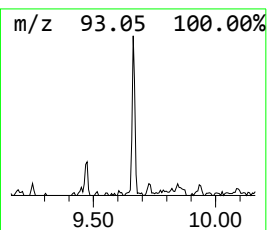
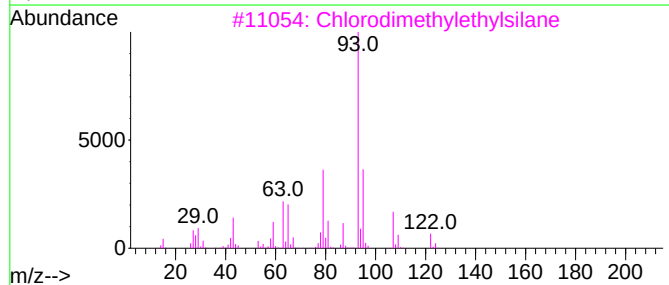
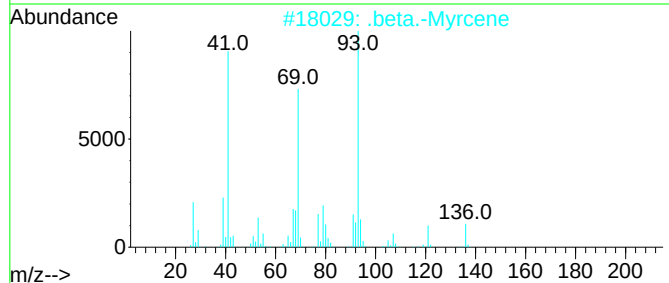
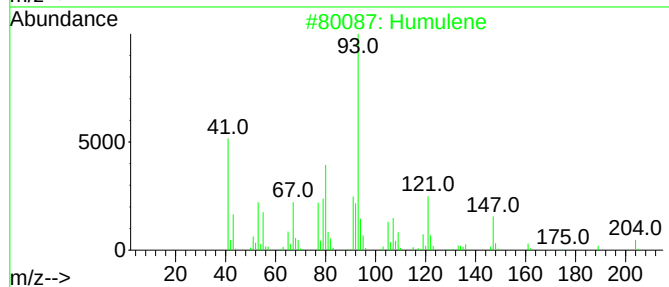
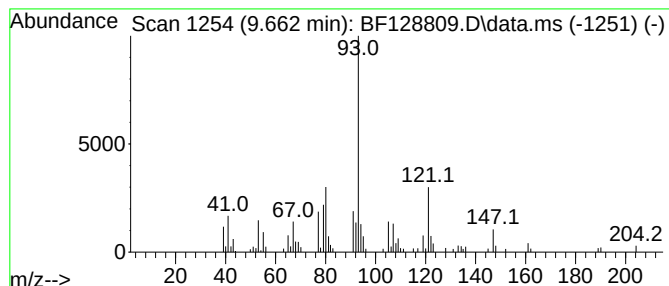
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Humulene Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 9.662 | 2.64 ng | 78726 | Acenaphthene-d10 | 9.815 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Humulene                            | 204 | C15H24    | 006753-98-6 | 98   |
| 2    |    |   | .beta.-Myrcene                      | 136 | C10H16    | 000123-35-3 | 64   |
| 3    |    |   | Chlorodimethylethylsilane           | 122 | C4H11ClSi | 006917-76-6 | 53   |
| 4    |    |   | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16    | 000488-97-1 | 53   |
| 5    |    |   | 1,3,7-Octatriene, 3,7-dimethyl-     | 136 | C10H16    | 000502-99-8 | 46   |



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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

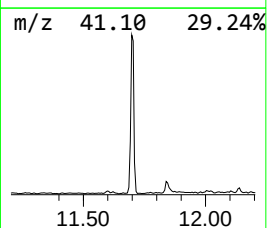
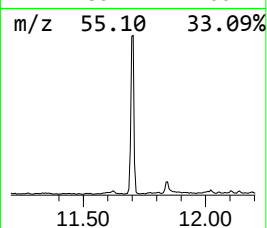
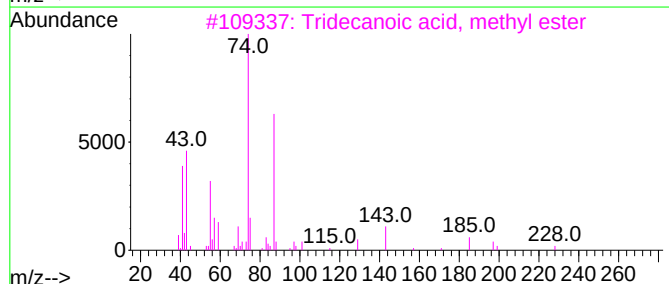
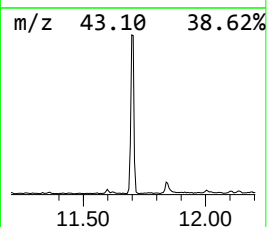
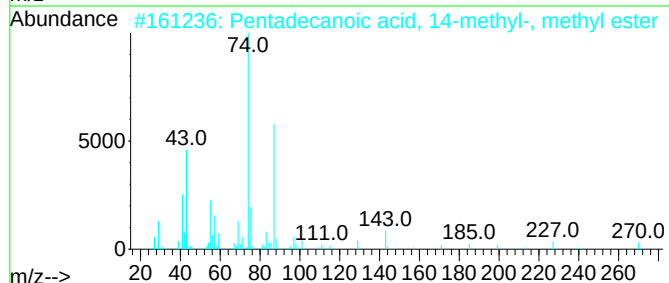
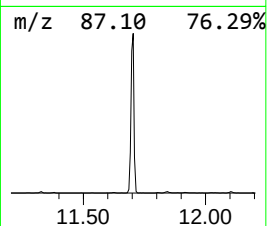
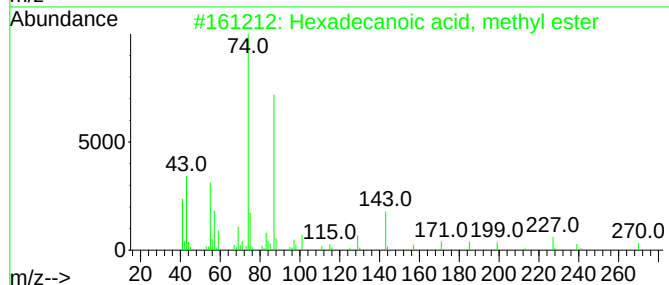
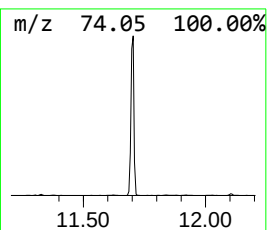
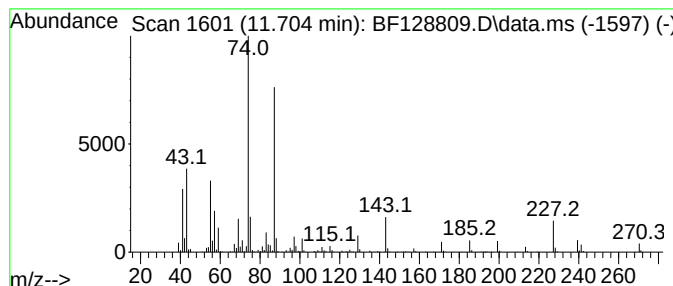
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Peak Number 3 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.704 | 49.85 ng | 1258900 | Phenanthrene-d10 | 11.304 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|------|-------------------------------------|-----|----------|-------------|------|
| 1    |      | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |      | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 93   |
| 3    |      | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 91   |
| 4    |      | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 87   |
| 5    |      | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 81   |



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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

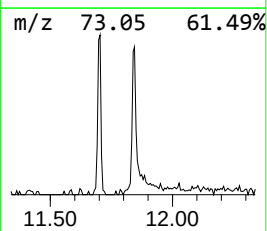
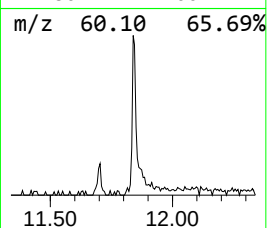
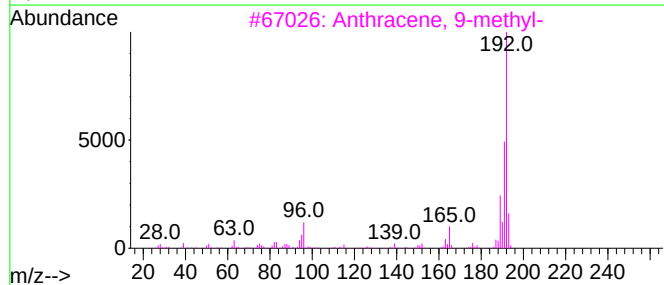
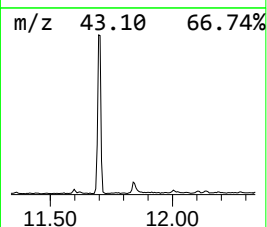
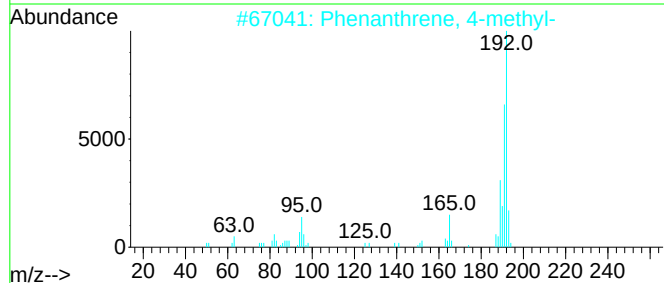
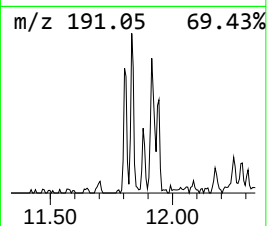
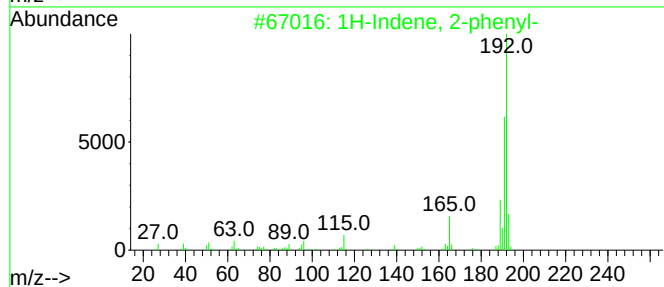
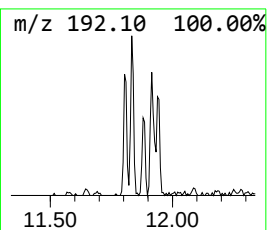
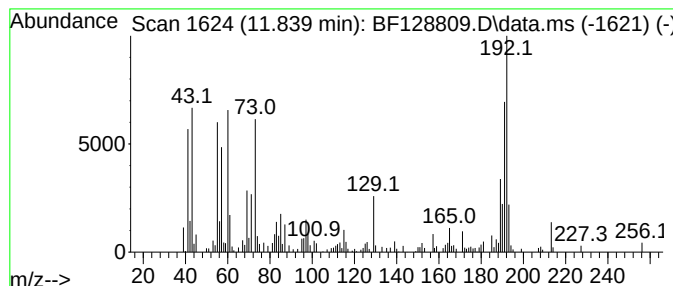
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 1H-Indene, 2-phenyl- Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.839 | 5.45 ng | 137706 | Phenanthrene-d10 | 11.304 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 70   |
| 2    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 70   |
| 3    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 55   |
| 4    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 55   |
| 5    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 55   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

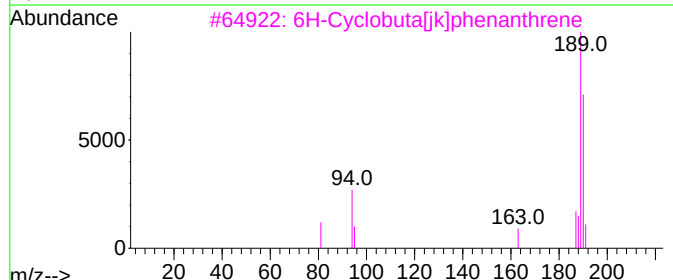
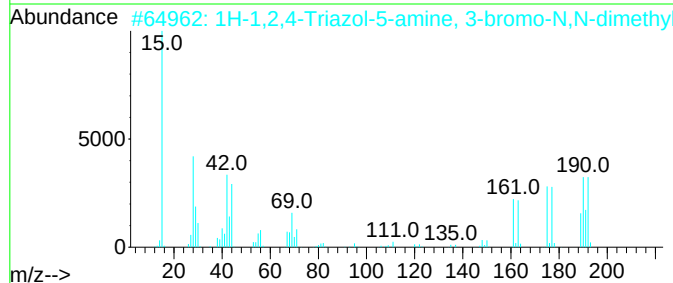
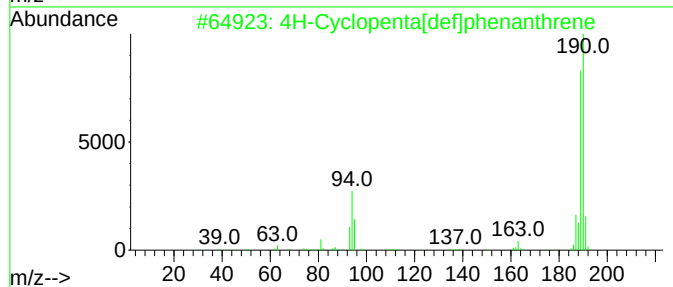
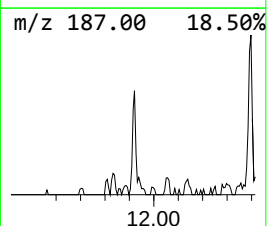
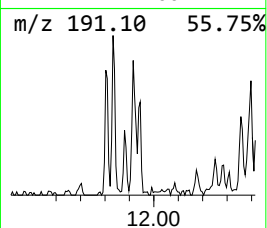
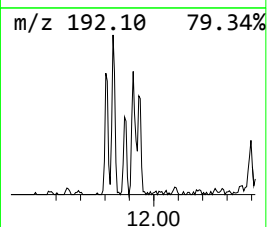
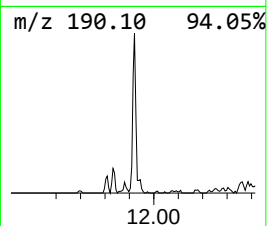
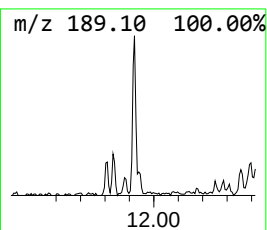
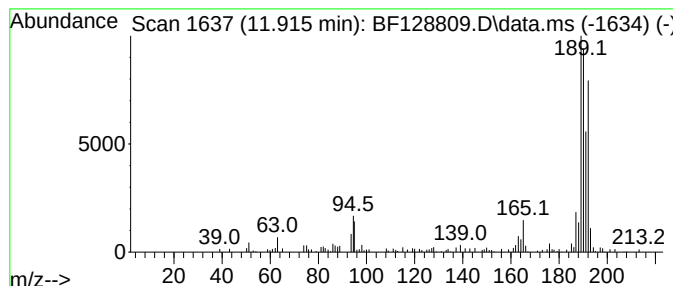
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.915 | 3.64 ng | 91859 | Phenanthrene-d10 | 11.304 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5  | 53   |
| 2    |    |   | 1H-1,2,4-Triazol-5-amine, 3-brom... | 190 | C4H7BrN4 | 1000460-85-7 | 53   |
| 3    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10   | 083469-43-6  | 47   |
| 4    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12   | 000832-69-9  | 46   |
| 5    |    |   | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12   | 027410-55-5  | 44   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

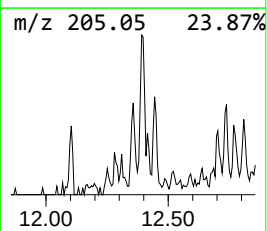
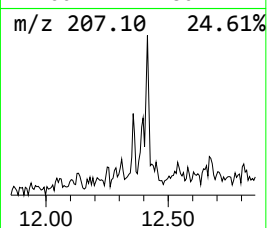
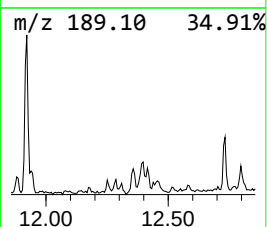
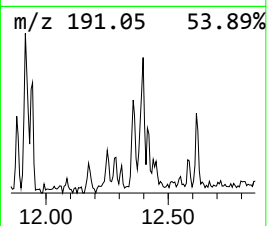
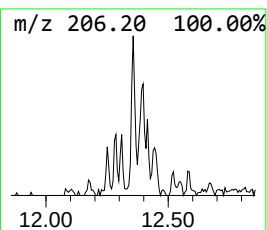
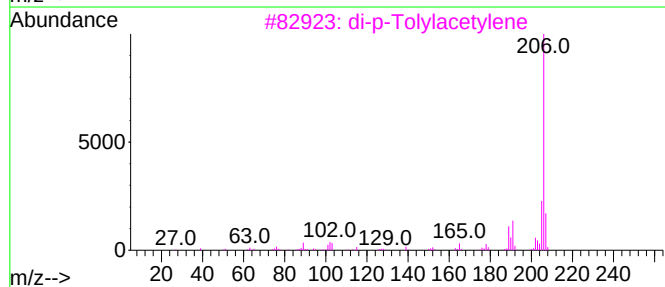
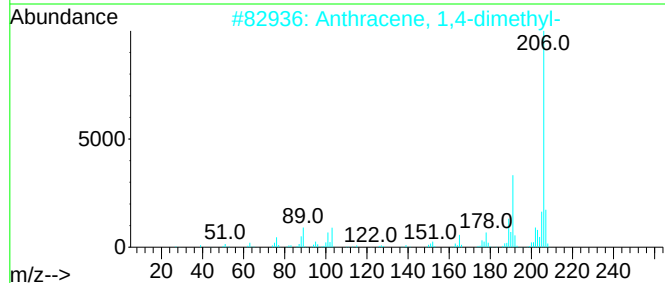
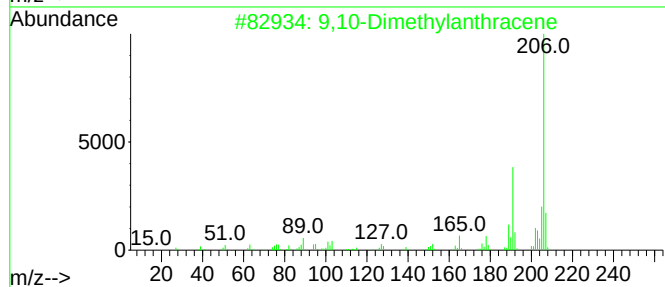
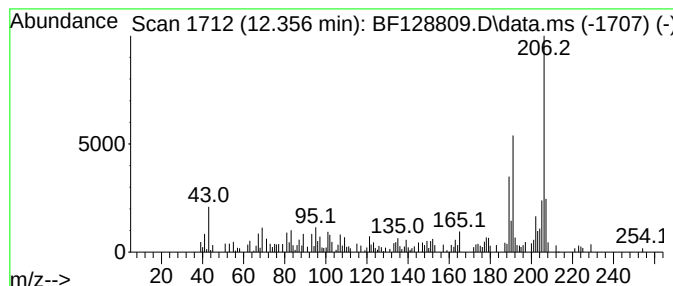
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 9,10-Dimethylantracene Concentration Rank 9

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.356 | 3.29 ng | 83195 | Phenanthrene-d10 | 11.304 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1  | 91   |
| 2    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0  | 90   |
| 3    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0  | 90   |
| 4    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6  | 81   |
| 5    |    |   | 3,4-Dimethylphenanthrene    | 206 | C16H14  | 1000452-24-5 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
HD-02-061322

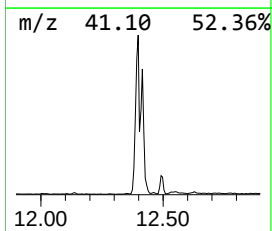
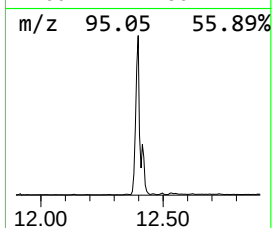
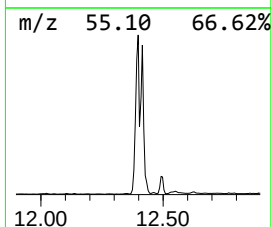
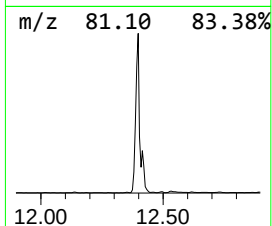
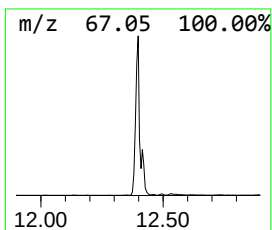
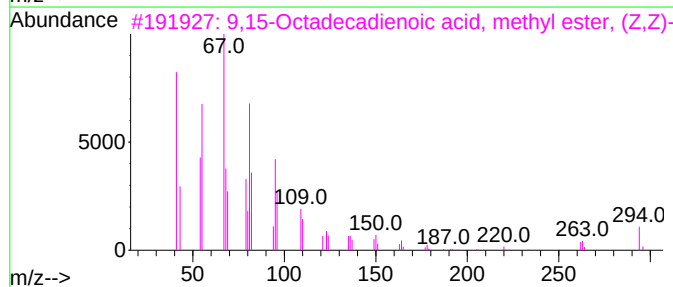
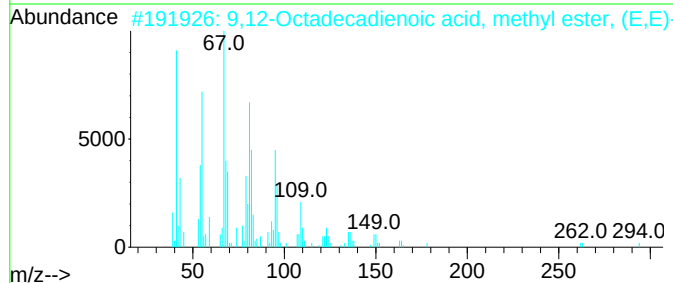
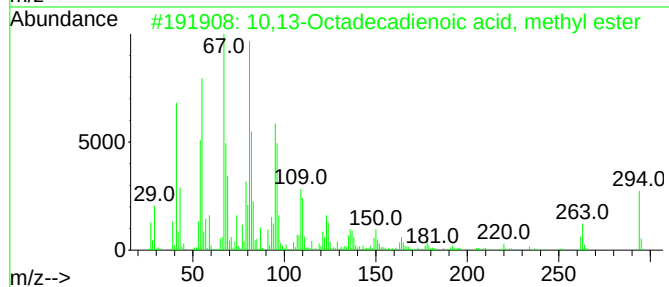
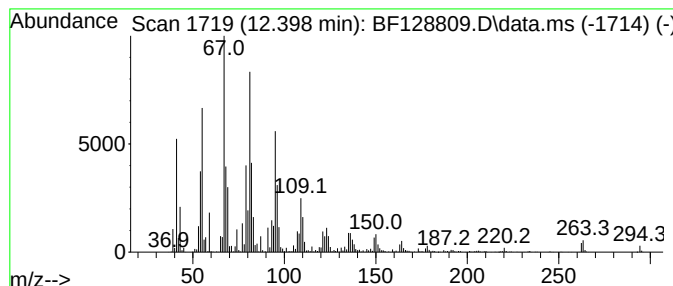
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 10,13-Octadecadienoic acid,... Concentration Rank 1

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 12.398    | 224.15 ng                           | 5660910 | Phenanthrene-d10 | 11.304      |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | 10,13-Octadecadienoic acid, meth... | 294     | C19H34O2         | 056554-62-2 | 99   |
| 2         | 9,12-Octadecadienoic acid, methy... | 294     | C19H34O2         | 002566-97-4 | 99   |
| 3         | 9,15-Octadecadienoic acid, methy... | 294     | C19H34O2         | 017309-05-6 | 99   |
| 4         | Methyl 9-cis,11-trans-octadecadi... | 294     | C19H34O2         | 013058-52-1 | 99   |
| 5         | 9,12-Octadecadienoic acid (Z,Z)-... | 294     | C19H34O2         | 000112-63-0 | 99   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
HD-02-061322

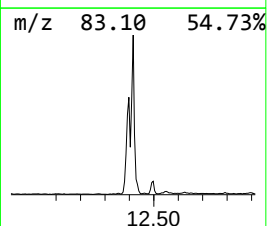
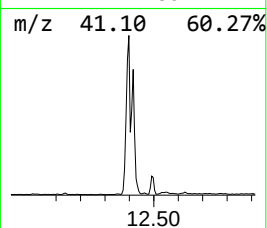
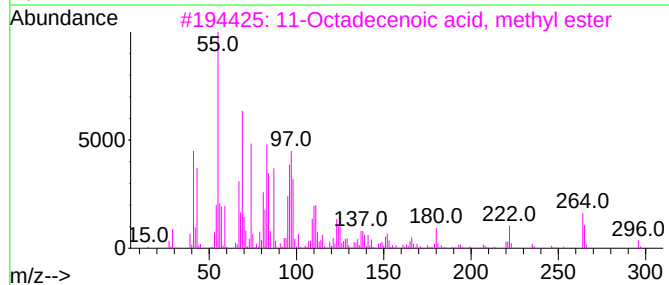
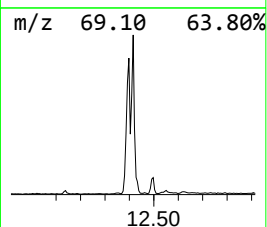
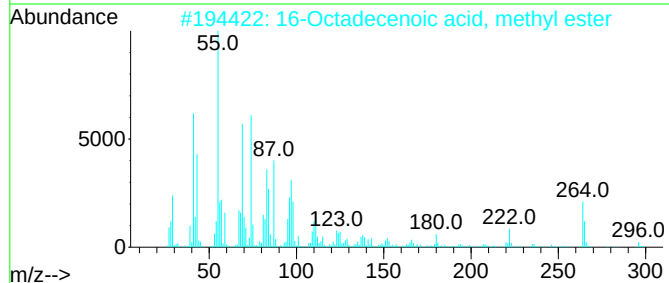
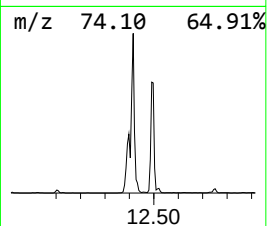
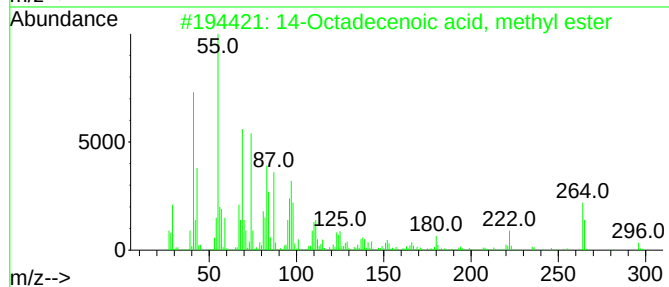
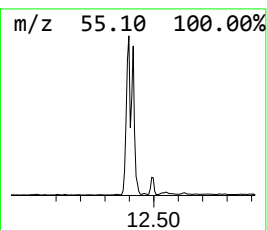
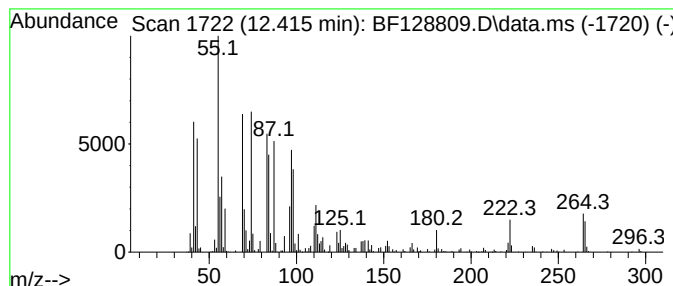
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 14-Octadecenoic acid, methyl... Concentration Rank 2

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 12.415    | 134.34 ng                           | 3392660 | Phenanthrene-d10 | 11.304       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | 14-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-48-4  | 91   |
| 2         | 16-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-49-5  | 91   |
| 3         | 11-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 052380-33-3  | 87   |
| 4         | 13-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-47-3  | 87   |
| 5         | trans-13-Octadecenoic acid, meth... | 296     | C19H36O2         | 1000333-61-3 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

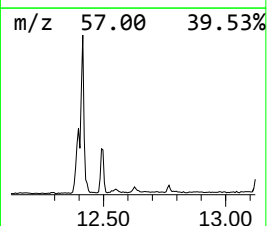
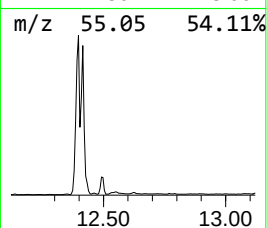
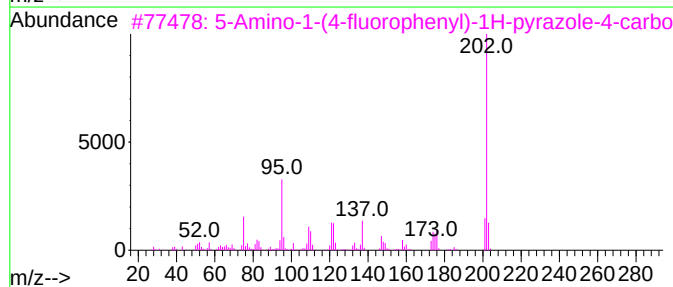
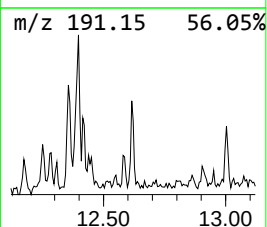
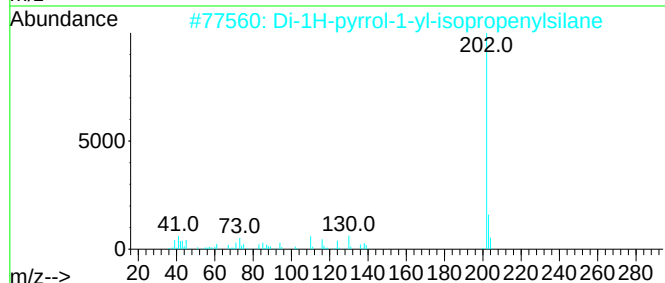
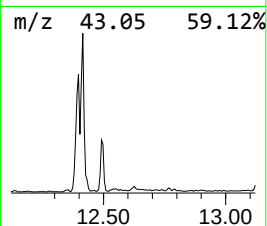
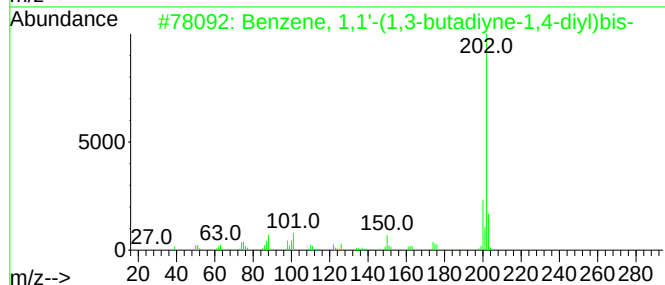
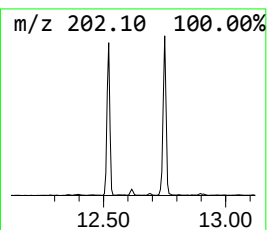
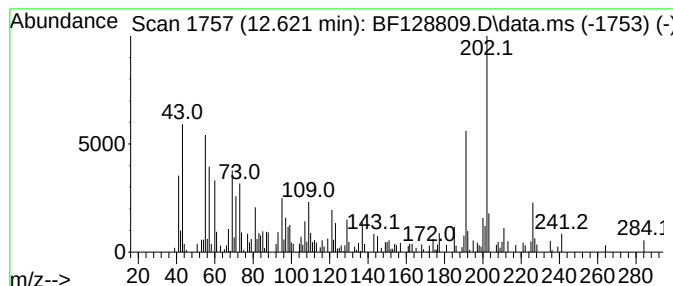
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 unknown12.621 Concentration Rank 8

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.621 | 3.61 ng | 91168 | Phenanthrene-d10 | 11.304 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Benzene, 1,1'-(1,3-butadiyne-1,4... | 202 | C16H10     | 000886-66-8  | 35   |
| 2    |    |   | Di-1H-pyrrol-1-yl-isopropenylsilane | 202 | C11H14N2Si | 1000306-57-7 | 30   |
| 3    |    |   | 5-Amino-1-(4-fluorophenyl)-1H-py... | 202 | C10H7FN4   | 051516-70-2  | 27   |
| 4    |    |   | Phenol, 4,4'-oxybis-                | 202 | C12H10O3   | 001965-09-9  | 22   |
| 5    |    |   | Fluoranthene                        | 202 | C16H10     | 000206-44-0  | 18   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
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Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId :  
HD-02-061322

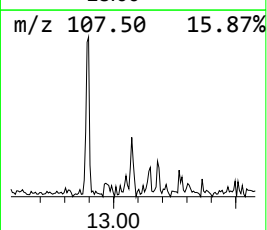
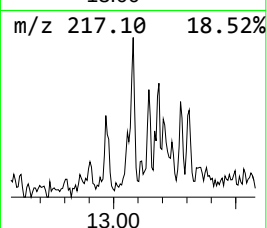
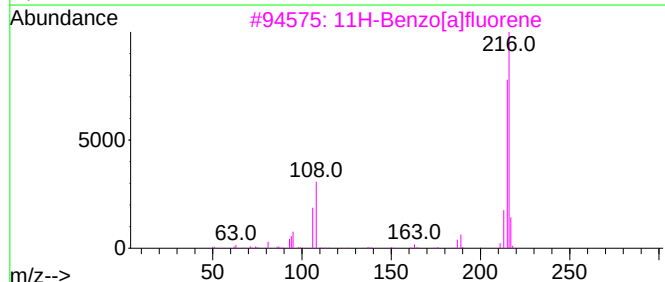
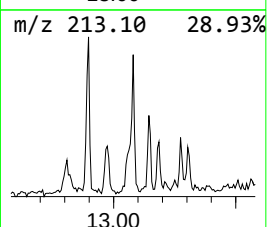
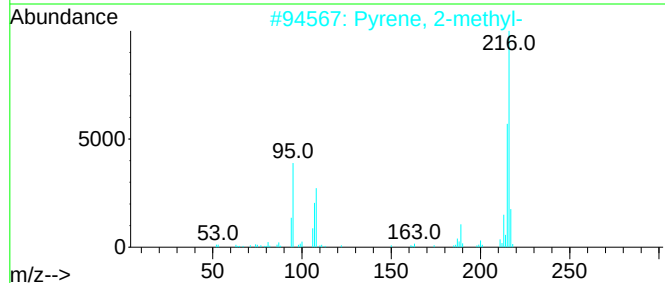
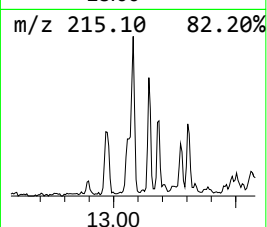
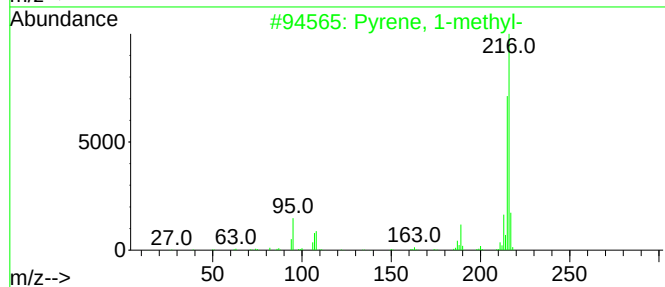
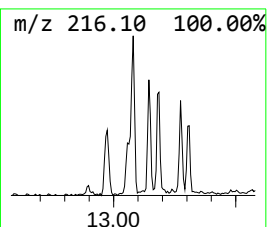
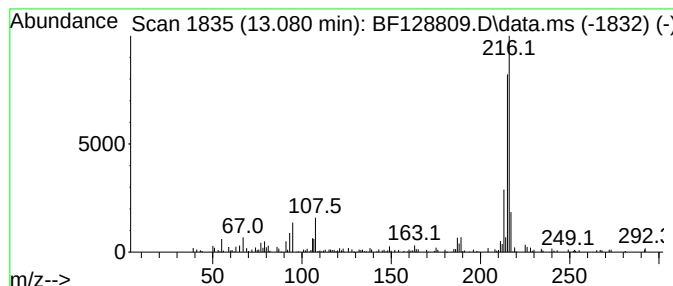
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Pyrene, 1-methyl- Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.080 | 2.65 ng | 114112 | Chrysene-d12     | 13.950 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Pyrene, 1-methyl-    | 216 | C17H12  | 002381-21-7 | 91   |
| 2    |      | Pyrene, 2-methyl-    | 216 | C17H12  | 003442-78-2 | 90   |
| 3    |      | 11H-Benzo[a]fluorene | 216 | C17H12  | 000238-84-6 | 81   |
| 4    |      | 11H-Benzo[b]fluorene | 216 | C17H12  | 000243-17-4 | 81   |
| 5    |      | 7H-Benzo[c]fluorene  | 216 | C17H12  | 000205-12-9 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

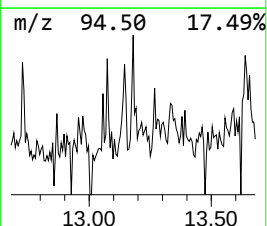
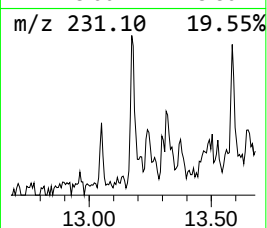
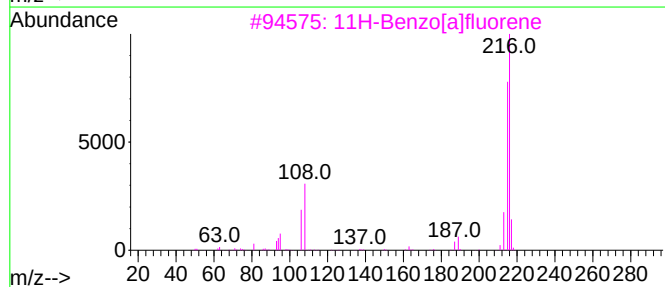
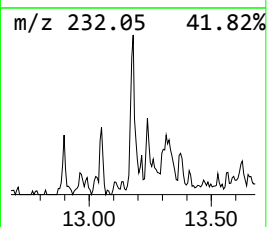
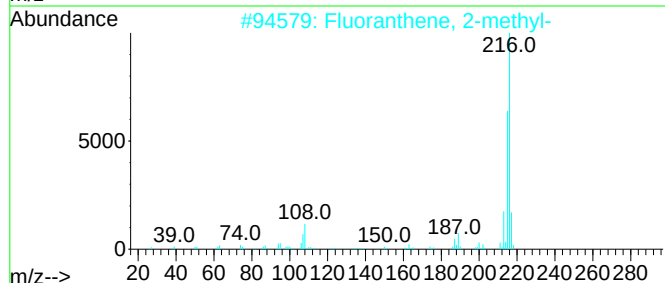
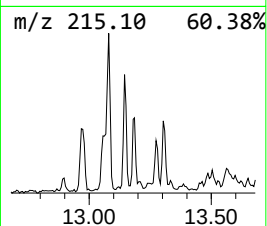
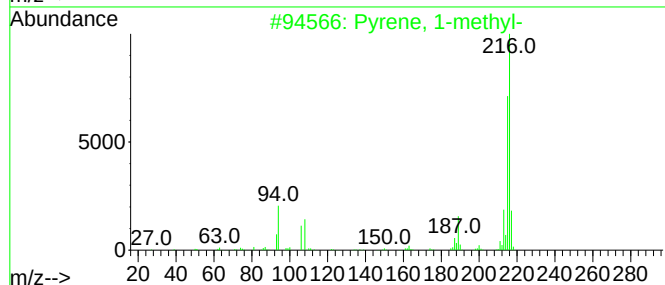
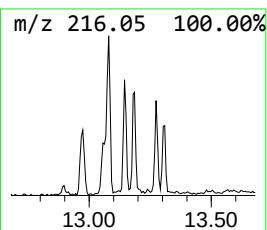
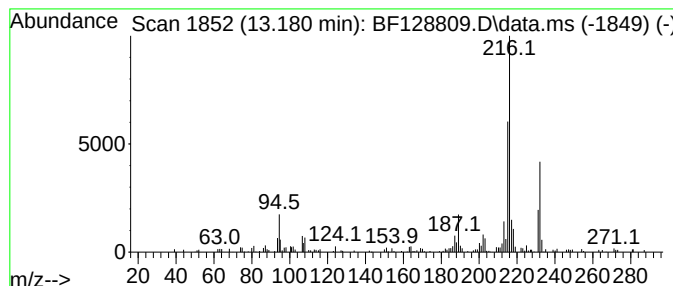
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 14

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 13.180 | 2.08 ng | 89576 | Chrysene-d12     | 13.950 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 78   |
| 2    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 78   |
| 3    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 60   |
| 4    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 58   |
| 5    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 49   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

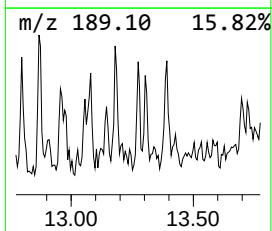
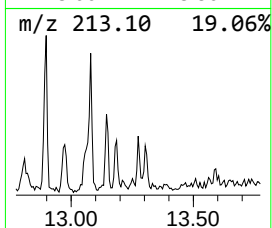
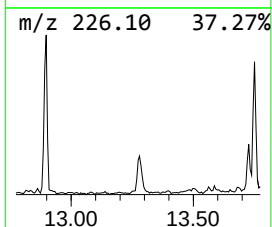
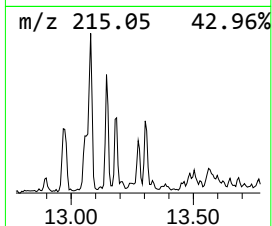
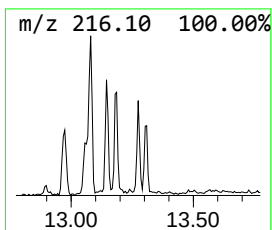
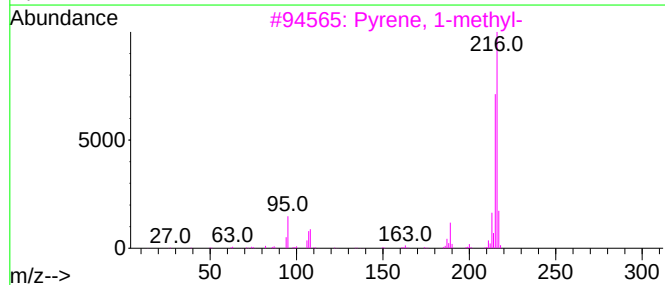
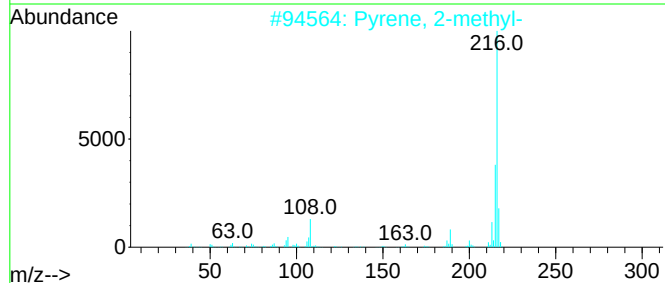
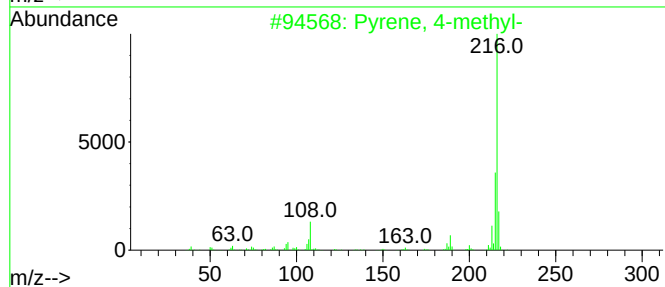
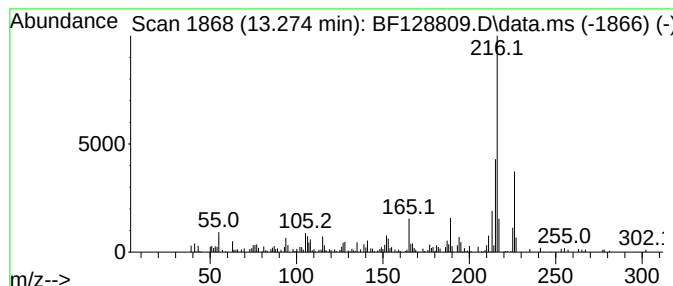
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ClientSampleId :  
HD-02-061322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.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 12 Pyrene, 4-methyl- Concentration Rank 15

| R.T.      | EstConc              | Area  | Relative to ISTD | R.T.        |      |
|-----------|----------------------|-------|------------------|-------------|------|
| 13.274    | 2.02 ng              | 86671 | Chrysene-d12     | 13.950      |      |
| Hit# of 5 | Tentative ID         | MW    | MolForm          | CAS#        | Qual |
| 1         | Pyrene, 4-methyl-    | 216   | C17H12           | 003353-12-6 | 62   |
| 2         | Pyrene, 2-methyl-    | 216   | C17H12           | 003442-78-2 | 62   |
| 3         | Pyrene, 1-methyl-    | 216   | C17H12           | 002381-21-7 | 53   |
| 4         | 11H-Benzo[a]fluorene | 216   | C17H12           | 000238-84-6 | 52   |
| 5         | 1,2-Difluorostilbene | 216   | C14H10F2         | 000643-76-5 | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

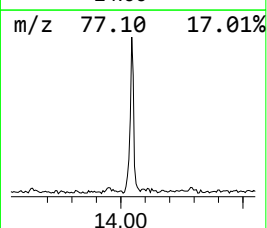
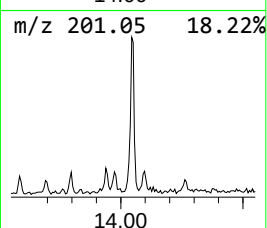
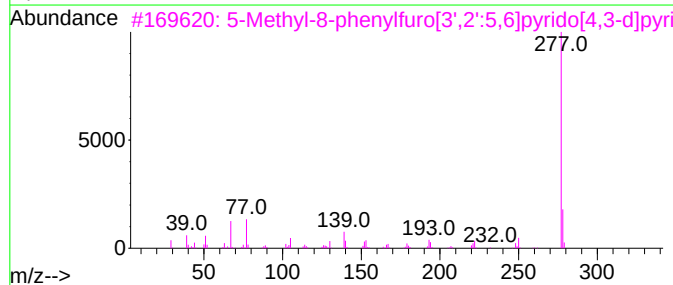
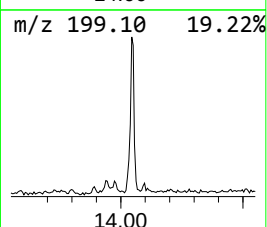
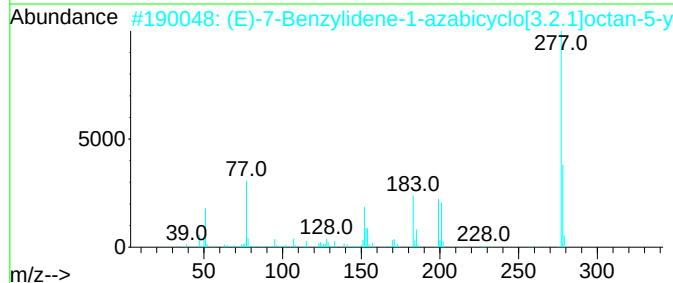
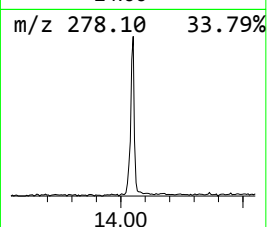
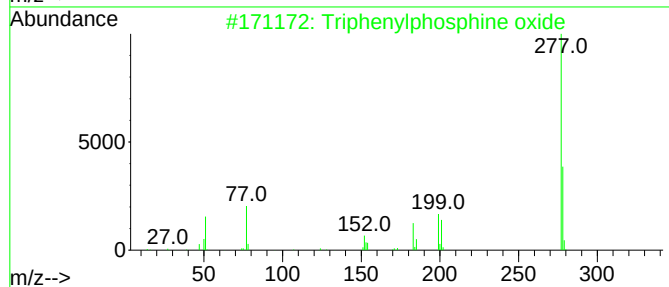
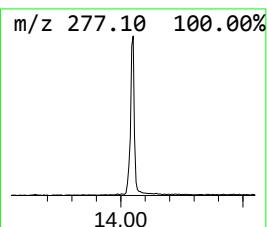
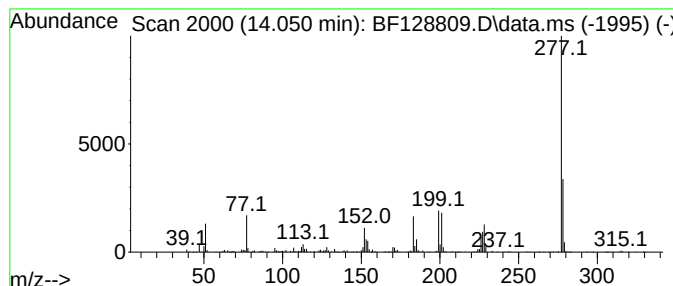
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Triphenylphosphine oxide Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.050 | 9.35 ng | 401942 | Chrysene-d12     | 13.950 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Triphenylphosphine oxide             | 278 | C18H15OP   | 000791-28-6  | 95   |
| 2    |    |   | (E)-7-Benzylidene-1-azabicyclo[3...] | 293 | C15H19N03S | 1000483-83-4 | 46   |
| 3    |    |   | 5-Methyl-8-phenylfuro[3',2':5,6]...  | 277 | C16H11N3O2 | 1000460-07-9 | 43   |
| 4    |    |   | 2-Phenyl-6-(trifluoromethyl)-1H-...  | 277 | C15H10F3NO | 1000387-59-3 | 38   |
| 5    |    |   | Cobalt,(.eta.<5>-2,4-cyclopentad...  | 277 | C16H15BCo  | 036682-12-9  | 37   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

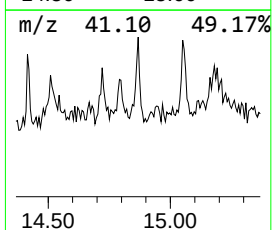
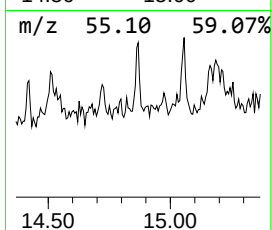
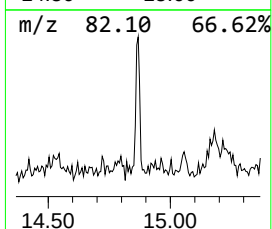
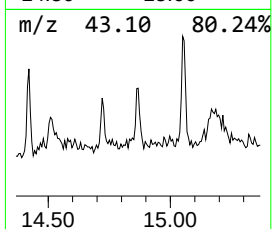
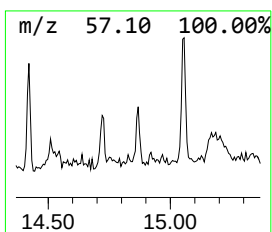
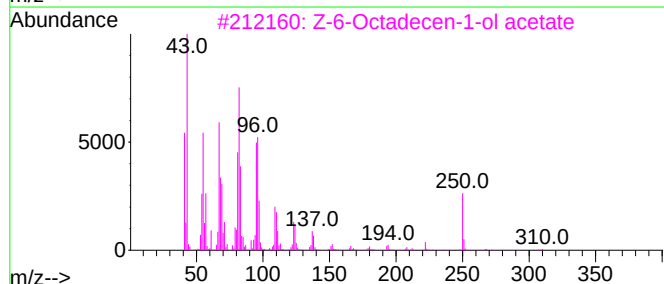
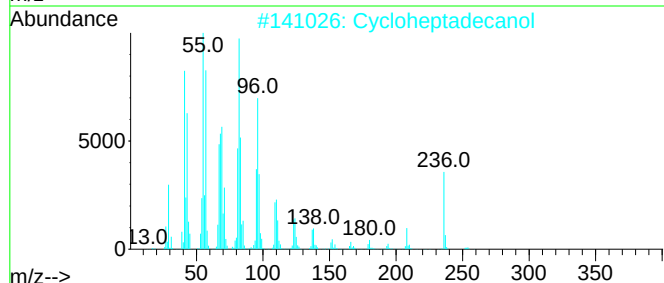
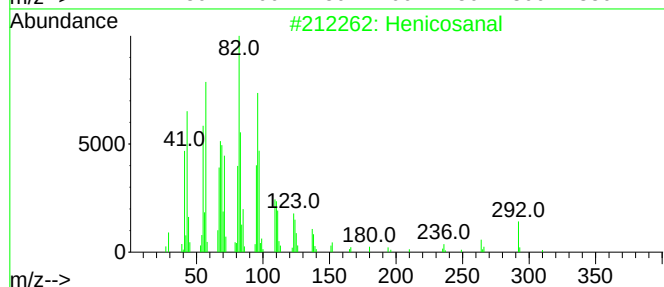
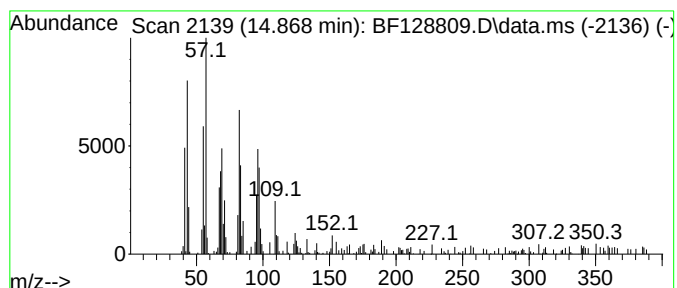
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Henicosanal Concentration Rank 10

| R.T.      | EstConc                     | Area  | Relative to ISTD | R.T.         |      |
|-----------|-----------------------------|-------|------------------|--------------|------|
| 14.868    | 3.07 ng                     | 69536 | Perylene-d12     | 15.403       |      |
| Hit# of 5 | Tentative ID                | MW    | MolForm          | CAS#         | Qual |
| 1         | Henicosanal                 | 310   | C21H42O          | 051227-32-8  | 93   |
| 2         | Cycloheptadecanol           | 254   | C17H34O          | 004429-77-0  | 72   |
| 3         | Z-6-Octadecen-1-ol acetate  | 310   | C20H38O2         | 1000131-09-9 | 72   |
| 4         | Pentadecanal-               | 226   | C15H30O          | 002765-11-9  | 70   |
| 5         | Z-14-Octadecen-1-ol acetate | 310   | C20H38O2         | 1010131-07-6 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
Data File : BF128809.D  
Acq On : 14 Jun 2022 19:44  
Operator : CG\JU  
Sample : N3336-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-061322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

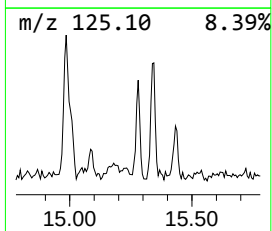
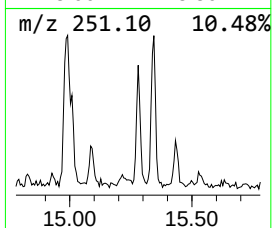
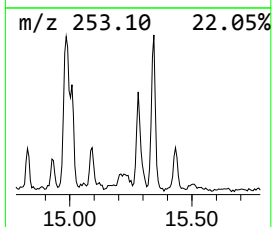
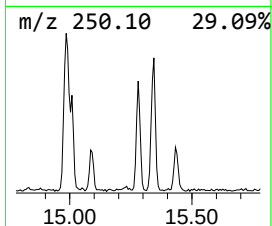
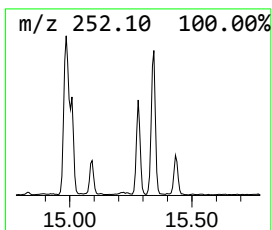
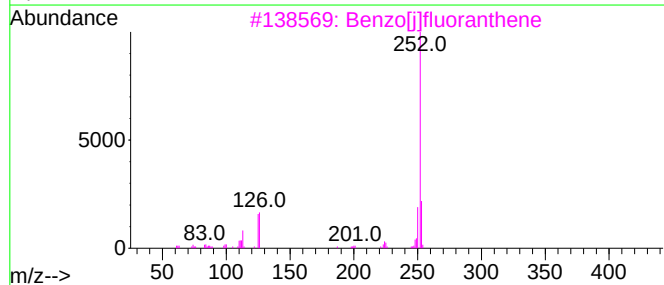
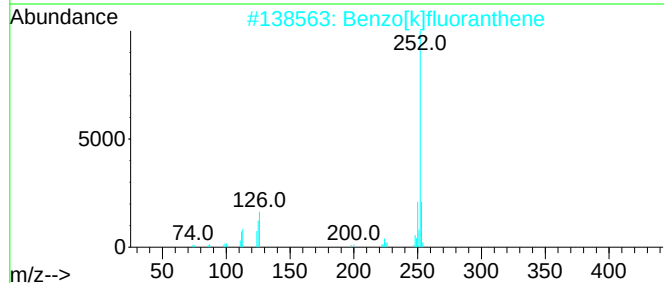
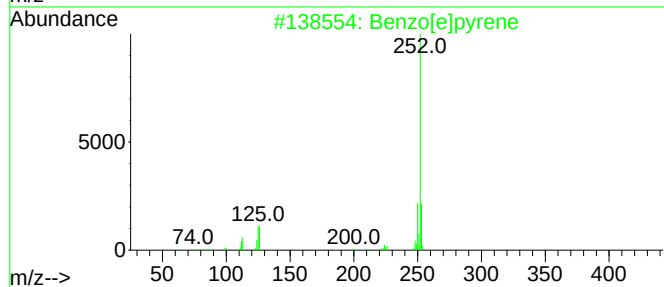
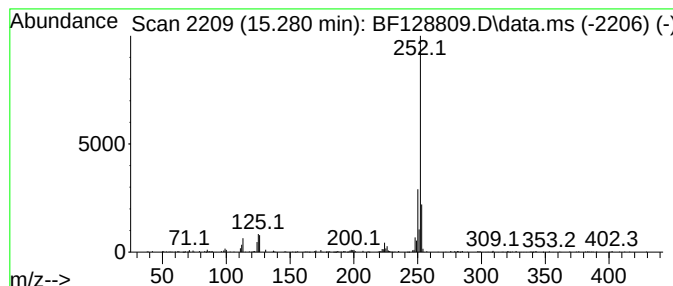
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzo[e]pyrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.280 | 8.73 ng | 197460 | Perylene-d12     | 15.403 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 96   |
| 3    |      | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 94   |
| 4    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 90   |
| 5    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061422\  
 Data File : BF128809.D  
 Acq On : 14 Jun 2022 19:44  
 Operator : CG\JU  
 Sample : N3336-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-061322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.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 |
| .alpha.-Pinene     | 6.051  | 3.0     | ng    | 75971    | 1                     | 6.780  | 506860 | 20.0 |
| Humulene           | 9.662  | 2.6     | ng    | 78726    | 3                     | 9.815  | 597376 | 20.0 |
| Hexadecanoic ac... | 11.704 | 49.9    | ng    | 1258900  | 4                     | 11.304 | 505104 | 20.0 |
| 1H-Indene, 2-ph... | 11.839 | 5.5     | ng    | 137706   | 4                     | 11.304 | 505104 | 20.0 |
| 4H-Cyclopenta[d... | 11.915 | 3.6     | ng    | 91859    | 4                     | 11.304 | 505104 | 20.0 |
| 9,10-Dimethylan... | 12.356 | 3.3     | ng    | 83195    | 4                     | 11.304 | 505104 | 20.0 |
| 10,13-Octadecad... | 12.398 | 224.2   | ng    | 5660910  | 4                     | 11.304 | 505104 | 20.0 |
| 14-Octadecenoic... | 12.415 | 134.3   | ng    | 3392660  | 4                     | 11.304 | 505104 | 20.0 |
| unknown12.621      | 12.621 | 3.6     | ng    | 91168    | 4                     | 11.304 | 505104 | 20.0 |
| Pyrene, 1-methyl-  | 13.080 | 2.6     | ng    | 114112   | 5                     | 13.950 | 859864 | 20.0 |
| Fluoranthene, 2... | 13.180 | 2.1     | ng    | 89576    | 5                     | 13.950 | 859864 | 20.0 |
| Pyrene, 4-methyl-  | 13.274 | 2.0     | ng    | 86671    | 5                     | 13.950 | 859864 | 20.0 |
| Triphenylphosph... | 14.050 | 9.3     | ng    | 401942   | 5                     | 13.950 | 859864 | 20.0 |
| Henicosanal        | 14.868 | 3.1     | ng    | 69536    | 6                     | 15.403 | 452612 | 20.0 |
| Benzo[e]pyrene     | 15.280 | 8.7     | ng    | 197460   | 6                     | 15.403 | 452612 | 20.0 |