

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121924\  
 Data File : BF140937.D  
 Acq On : 19 Dec 2024 20:00  
 Operator : RC/JU  
 Sample : P5339-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-06-12182024

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-BF121624.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140937.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         | 5.493       | 573           | 578         | 606          | rBV      | 735881         | 1167585       | 100.00%         | 12.663%       |
| 2         | 6.504       | 744           | 750         | 775          | rBV      | 704985         | 1110008       | 95.07%          | 12.039%       |
| 3         | 6.851       | 804           | 809         | 817          | rBV      | 210747         | 265299        | 22.72%          | 2.877%        |
| 4         | 7.416       | 899           | 905         | 915          | rBV      | 430462         | 576999        | 49.42%          | 6.258%        |
| 5         | 7.669       | 944           | 948         | 958          | rBV4     | 6005           | 12265         | 1.05%           | 0.133%        |
| 6         | 8.128       | 1021          | 1026        | 1047         | rVB      | 208334         | 282193        | 24.17%          | 3.061%        |
| 7         | 9.198       | 1203          | 1208        | 1218         | rBV      | 771668         | 1015716       | 86.99%          | 11.016%       |
| 8         | 9.751       | 1297          | 1302        | 1306         | rBV      | 26940          | 36769         | 3.15%           | 0.399%        |
| 9         | 9.886       | 1319          | 1325        | 1329         | rBV      | 235636         | 308799        | 26.45%          | 3.349%        |
| 10        | 10.292      | 1389          | 1394        | 1399         | rBV6     | 5938           | 12529         | 1.07%           | 0.136%        |
| 11        | 10.433      | 1412          | 1418        | 1424         | rBV2     | 11474          | 21017         | 1.80%           | 0.228%        |
| 12        | 10.516      | 1424          | 1432        | 1435         | rBV4     | 5636           | 13614         | 1.17%           | 0.148%        |
| 13        | 10.598      | 1440          | 1446        | 1455         | rVV      | 74428          | 102977        | 8.82%           | 1.117%        |
| 14        | 10.680      | 1455          | 1460        | 1473         | rVV      | 493335         | 669080        | 57.30%          | 7.256%        |
| 15        | 10.780      | 1473          | 1477        | 1486         | rVB7     | 12556          | 28458         | 2.44%           | 0.309%        |
| 16        | 10.980      | 1506          | 1511        | 1515         | rBV5     | 10429          | 20513         | 1.76%           | 0.222%        |
| 17        | 11.374      | 1573          | 1578        | 1581         | rBV      | 234961         | 341854        | 29.28%          | 3.708%        |
| 18        | 11.457      | 1588          | 1592        | 1601         | rVB      | 29657          | 45664         | 3.91%           | 0.495%        |
| 19        | 11.616      | 1613          | 1619        | 1622         | rBV5     | 9345           | 20025         | 1.72%           | 0.217%        |
| 20        | 11.710      | 1631          | 1635        | 1640         | rBV2     | 8184           | 13764         | 1.18%           | 0.149%        |
| 21        | 11.904      | 1660          | 1668        | 1674         | rBV2     | 74172          | 191506        | 16.40%          | 2.077%        |
| 22        | 11.992      | 1679          | 1683        | 1691         | rVB      | 65367          | 124582        | 10.67%          | 1.351%        |
| 23        | 12.174      | 1710          | 1714        | 1718         | rBV      | 19288          | 25655         | 2.20%           | 0.278%        |
| 24        | 12.216      | 1718          | 1721        | 1725         | rVB2     | 14798          | 18951         | 1.62%           | 0.206%        |
| 25        | 12.427      | 1753          | 1757        | 1761         | rBV      | 38417          | 60542         | 5.19%           | 0.657%        |
| 26        | 12.527      | 1770          | 1774        | 1780         | rVB3     | 24556          | 39440         | 3.38%           | 0.428%        |
| 27        | 12.592      | 1781          | 1785        | 1790         | rBV      | 352107         | 472400        | 40.46%          | 5.123%        |
| 28        | 12.827      | 1818          | 1825        | 1830         | rBV      | 325335         | 509092        | 43.60%          | 5.521%        |
| 29        | 12.874      | 1831          | 1833        | 1837         | rVB2     | 18856          | 23291         | 1.99%           | 0.253%        |
| 30        | 12.957      | 1842          | 1847        | 1857         | rVV      | 763592         | 1029681       | 88.19%          | 11.167%       |
| 31        | 13.045      | 1858          | 1862        | 1867         | rVB2     | 30238          | 55944         | 4.79%           | 0.607%        |
| 32        | 13.221      | 1889          | 1892        | 1895         | rBV2     | 32914          | 40896         | 3.50%           | 0.444%        |
| 33        | 14.033      | 2024          | 2030        | 2033         | rBV2     | 306049         | 563321        | 48.25%          | 6.109%        |

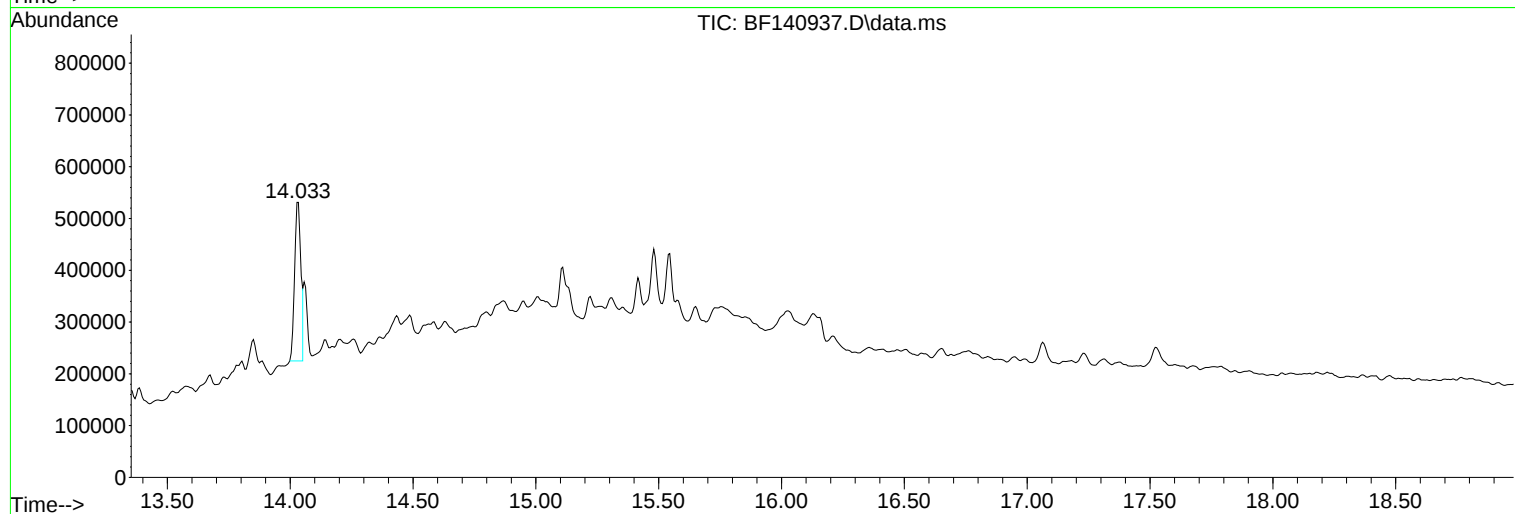
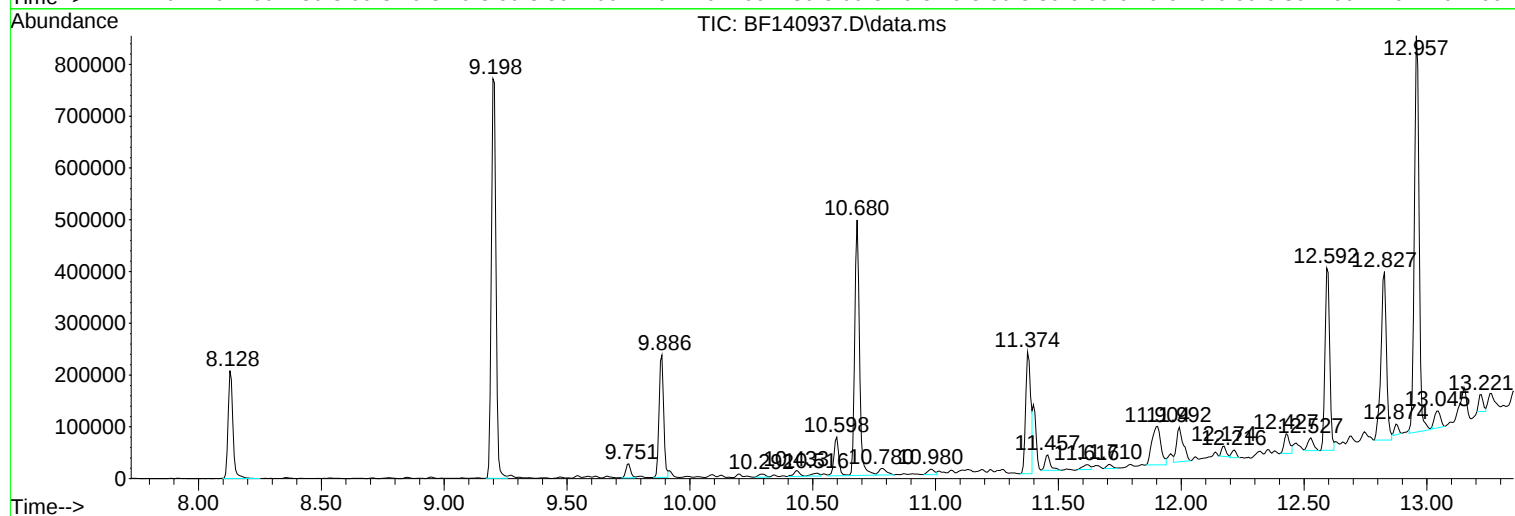
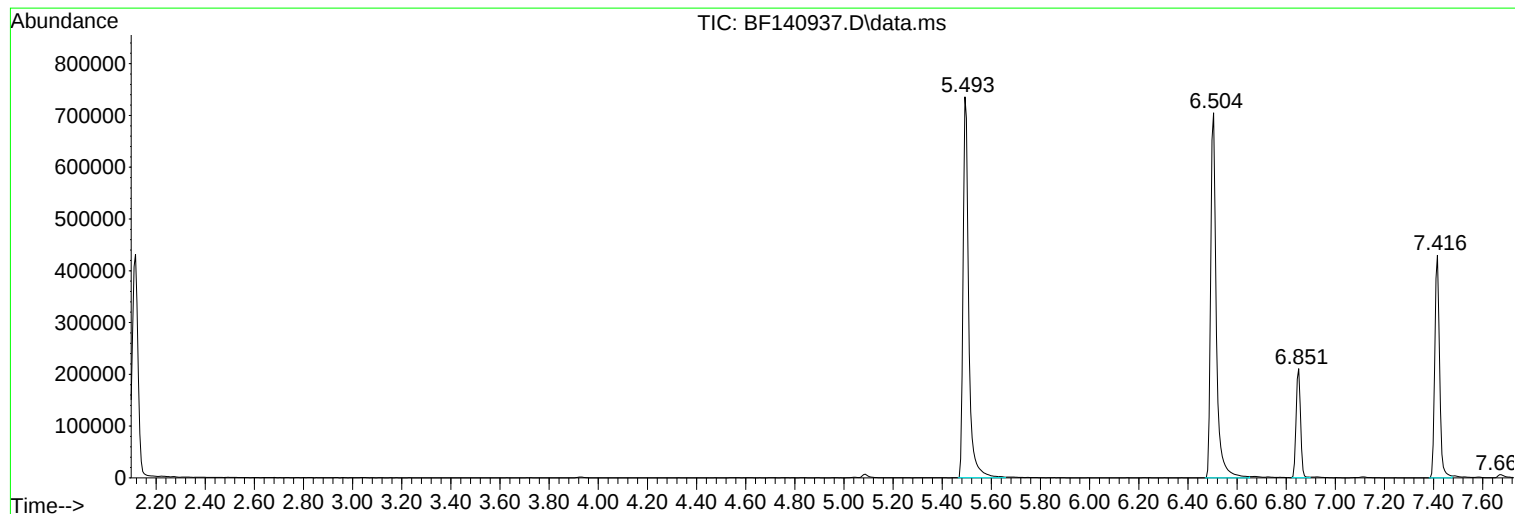
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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-12182024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121624.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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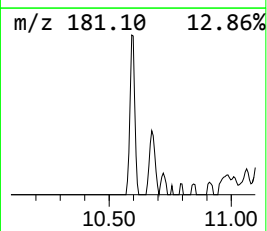
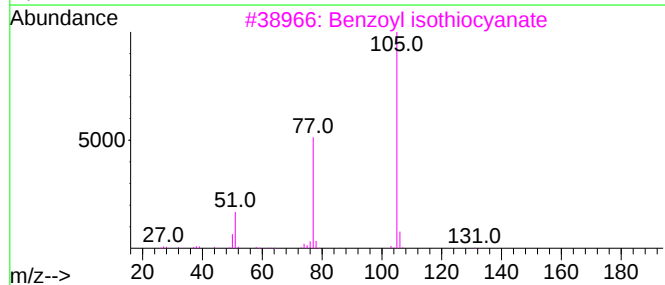
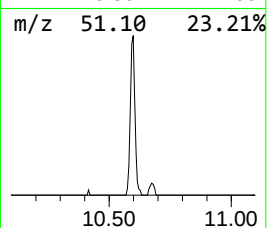
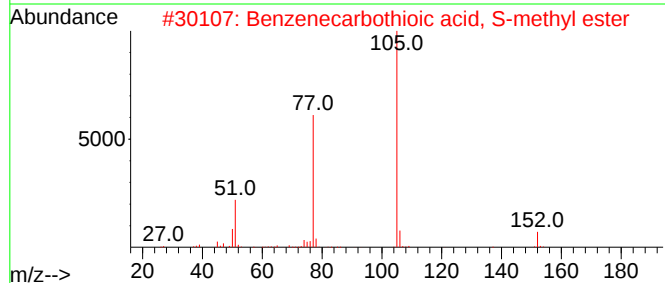
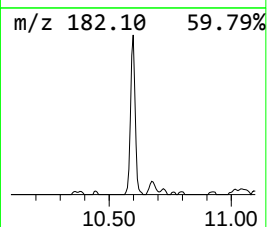
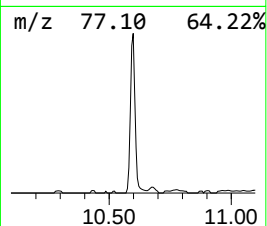
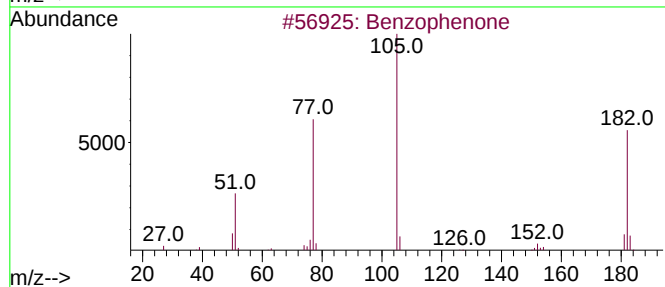
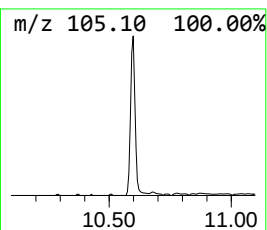
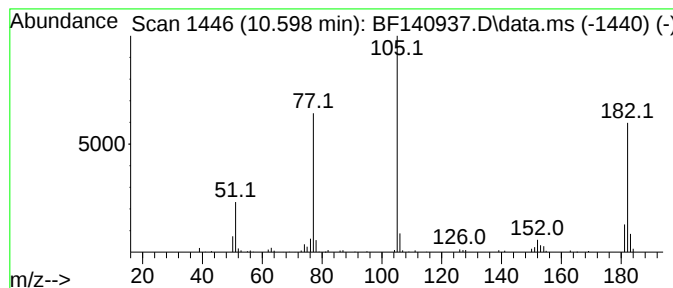
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Benzophenone Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.598 | 6.67 ng | 102977 | Acenaphthene-d10 | 9.886 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O    | 000119-61-9  | 97   |
| 2    |    |   | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS     | 005925-68-8  | 49   |
| 3    |    |   | Benzoyl isothiocyanate              | 163 | C8H5NOS    | 000532-55-8  | 47   |
| 4    |    |   | 2-(2-Oxo-2-phenyl-ethyl)-malonon... | 184 | C11H8N2O   | 1000296-76-9 | 47   |
| 5    |    |   | 2-Benzoyl-4-bromo-5-methyl-1,2-o... | 281 | C11H8BrNO3 | 1000444-92-3 | 47   |



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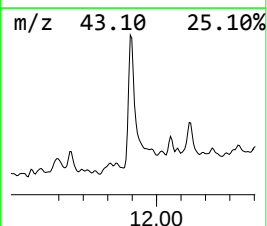
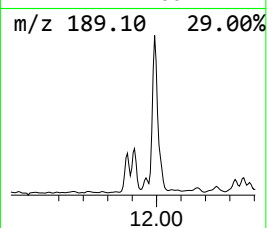
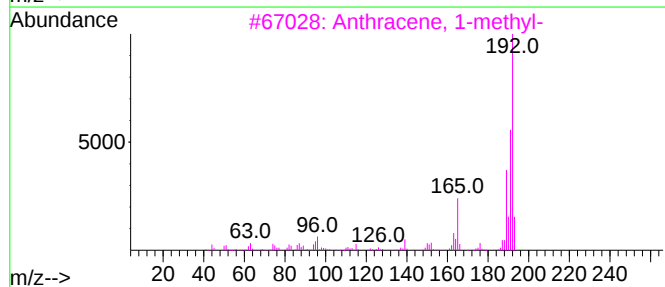
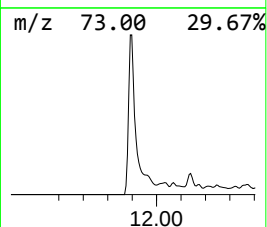
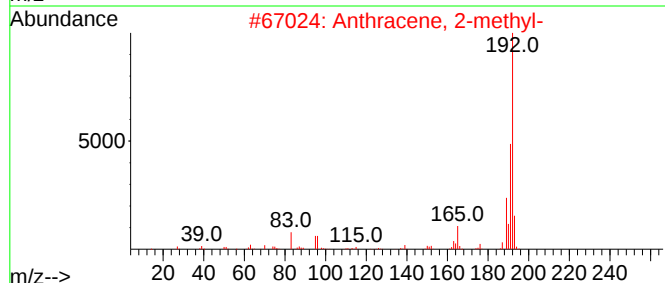
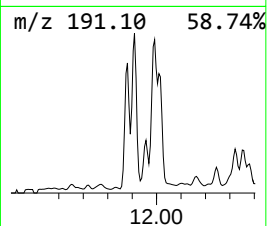
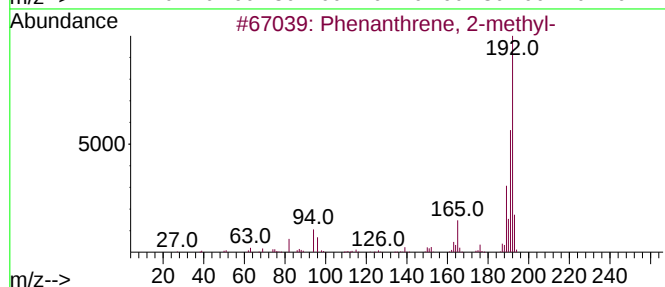
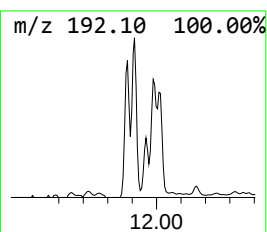
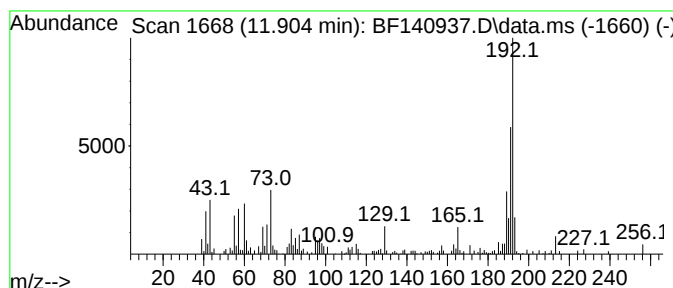
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.904 | 11.20 ng | 191506 | Phenanthrene-d10 | 11.374 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 97   |
| 2    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 96   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 92   |
| 5    |    |   | 1H-Indene, 1-phenyl-                | 192 | C15H12  | 001961-96-2 | 91   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

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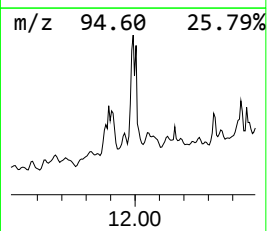
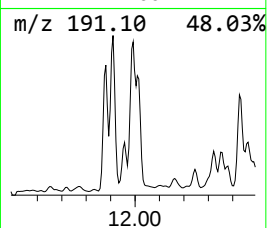
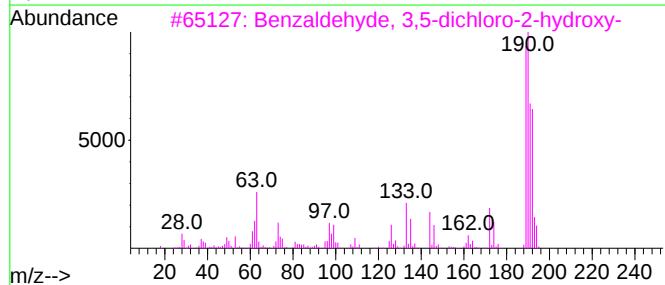
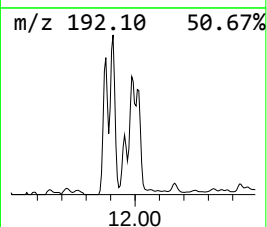
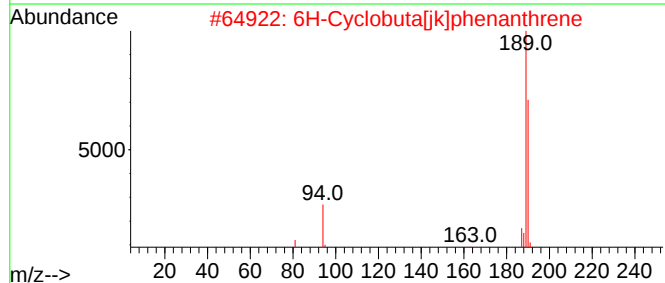
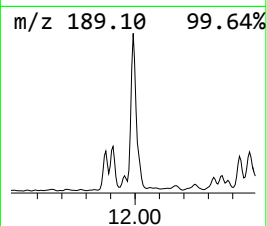
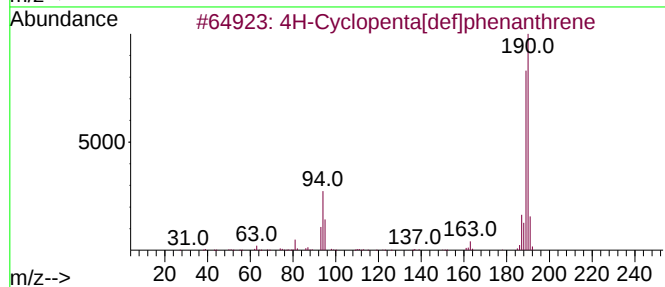
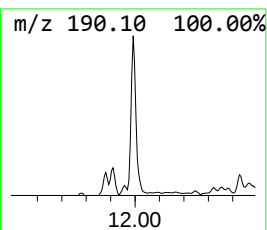
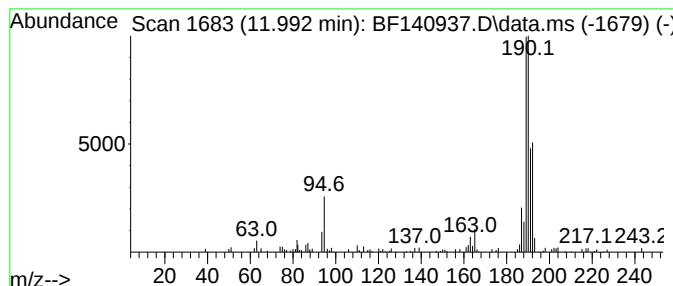
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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.992 | 7.29 ng | 124582 | Phenanthrene-d10 | 11.374 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 70   |
| 2    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10     | 083469-43-6  | 50   |
| 3    |    |   | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2  | 000090-60-8  | 40   |
| 4    |    |   | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 40   |
| 5    |    |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2  | 37   |



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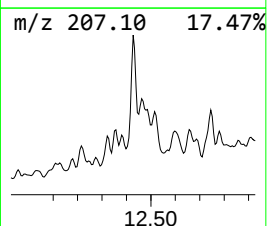
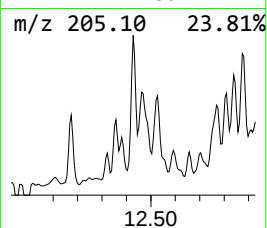
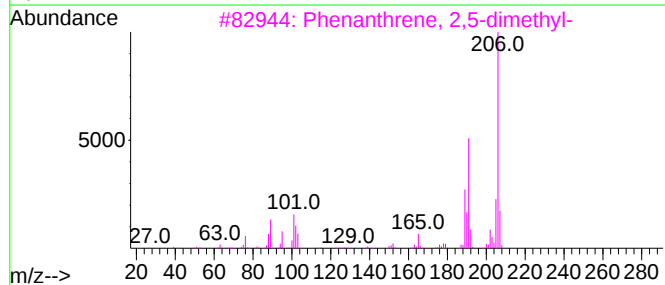
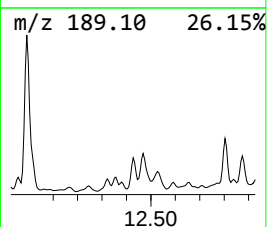
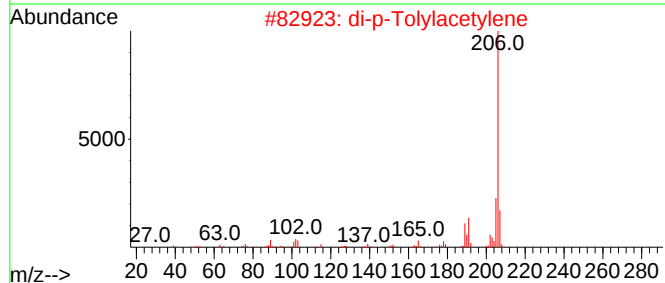
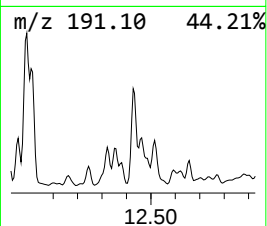
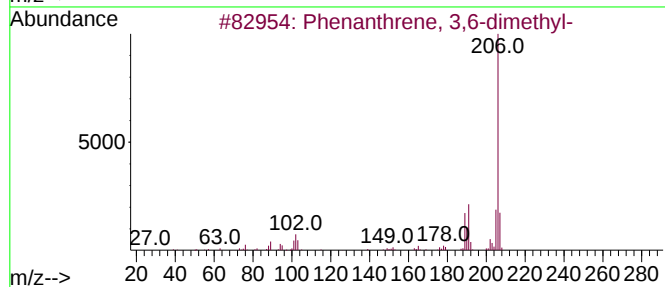
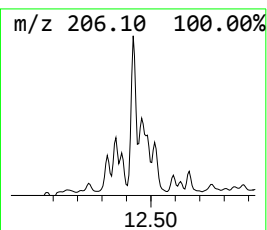
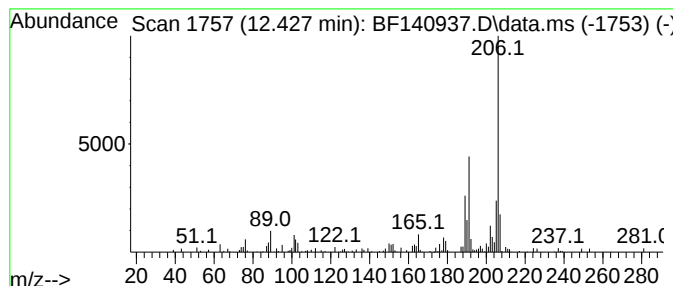
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TIC Library : C:\Database\NIST20.L  
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\*\*\*\*\*  
Peak Number 4 Phenanthrene, 3,6-dimethyl- Concentration Rank 4

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.427 | 3.54 ng | 60542 | Phenanthrene-d10 | 11.374 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 94   |
| 2    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 93   |
| 3    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 4    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 91   |
| 5    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 91   |



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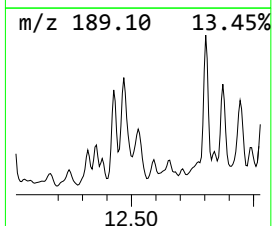
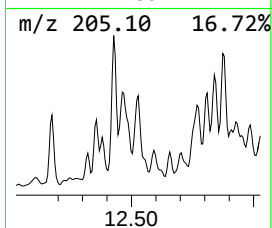
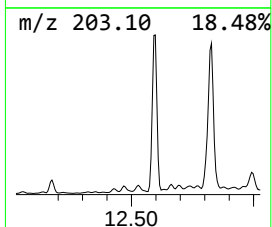
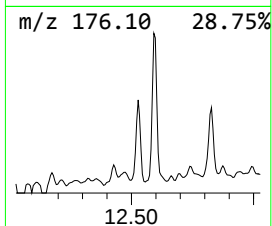
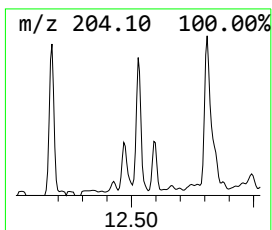
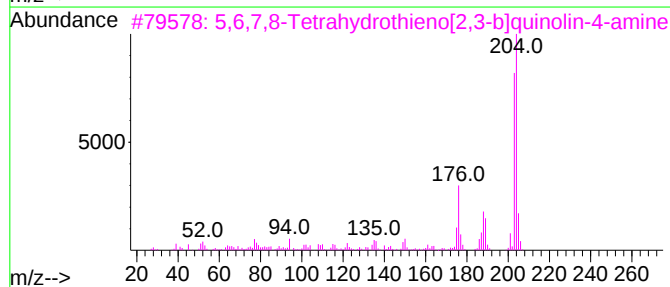
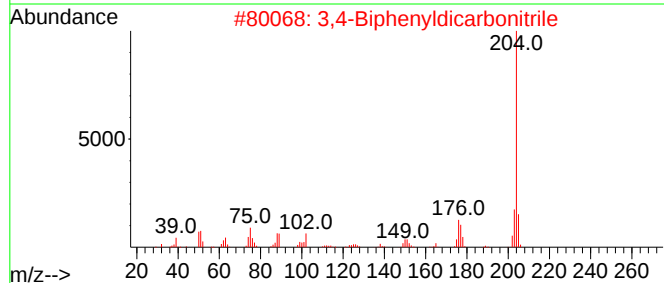
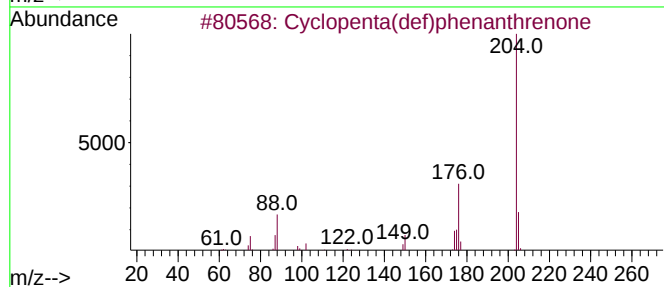
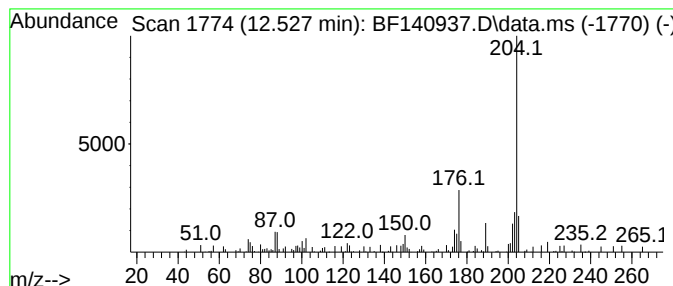
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Cyclopenta(def)phenanthrenone Concentration Rank 5

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 12.527    | 2.31 ng                             | 39440 | Phenanthrene-d10 | 11.374      |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | Cyclopenta(def)phenanthrenone       | 204   | C15H8O           | 005737-13-3 | 89   |
| 2         | 3,4-Biphenyldicarbonitrile          | 204   | C14H8N2          | 004128-63-6 | 53   |
| 3         | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204   | C11H12N2S        | 122914-50-5 | 52   |
| 4         | Naphthalene, 2-phenyl-              | 204   | C16H12           | 000612-94-2 | 52   |
| 5         | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204   | C14H8N2          | 004341-02-0 | 52   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121924\  
Data File : BF140937.D  
Acq On : 19 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5339-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-12182024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF121624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Benzophenone       | 10.598 | 6.7     | ng    | 102977   | 3                     | 9.886  | 308799 | 20.0 |
| Phenanthrene, 2... | 11.904 | 11.2    | ng    | 191506   | 4                     | 11.374 | 341854 | 20.0 |
| 4H-Cyclopenta[d... | 11.992 | 7.3     | ng    | 124582   | 4                     | 11.374 | 341854 | 20.0 |
| Phenanthrene, 3... | 12.427 | 3.5     | ng    | 60542    | 4                     | 11.374 | 341854 | 20.0 |
| Cyclopenta(def)... | 12.527 | 2.3     | ng    | 39440    | 4                     | 11.374 | 341854 | 20.0 |