

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
 Data File : BF141519.D  
 Acq On : 07 Feb 2025 20:21  
 Operator : RC/JU  
 Sample : Q1232-15  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-42.2-012925

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-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141519.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         | 4.987       | 487           | 492         | 507          | rVB      | 45183          | 70775         | 1.92%           | 0.202%        |
| 2         | 5.410       | 559           | 564         | 584          | rVB      | 845456         | 1161011       | 31.43%          | 3.320%        |
| 3         | 6.428       | 732           | 737         | 755          | rBV      | 1011085        | 1391814       | 37.68%          | 3.980%        |
| 4         | 6.792       | 794           | 799         | 805          | rBV      | 341550         | 432810        | 11.72%          | 1.238%        |
| 5         | 7.351       | 886           | 894         | 905          | rBV      | 676219         | 881147        | 23.85%          | 2.520%        |
| 6         | 8.075       | 1009          | 1017        | 1025         | rBV      | 411572         | 613133        | 16.60%          | 1.753%        |
| 7         | 9.145       | 1194          | 1199        | 1208         | rBV      | 1199628        | 1544690       | 41.82%          | 4.417%        |
| 8         | 9.228       | 1209          | 1213        | 1221         | rVB2     | 26783          | 46070         | 1.25%           | 0.132%        |
| 9         | 9.486       | 1251          | 1257        | 1260         | rBV      | 62936          | 91365         | 2.47%           | 0.261%        |
| 10        | 9.686       | 1286          | 1291        | 1296         | rVB      | 34102          | 46899         | 1.27%           | 0.134%        |
| 11        | 9.827       | 1310          | 1315        | 1318         | rBV      | 433932         | 547348        | 14.82%          | 1.565%        |
| 12        | 9.857       | 1318          | 1320        | 1325         | rVB      | 121094         | 139037        | 3.76%           | 0.398%        |
| 13        | 10.033      | 1345          | 1350        | 1353         | rVV      | 68809          | 93514         | 2.53%           | 0.267%        |
| 14        | 10.069      | 1353          | 1356        | 1364         | rVB      | 26708          | 39562         | 1.07%           | 0.113%        |
| 15        | 10.233      | 1380          | 1384        | 1386         | rBV2     | 24686          | 36993         | 1.00%           | 0.106%        |
| 16        | 10.375      | 1403          | 1408        | 1413         | rVB      | 120206         | 156649        | 4.24%           | 0.448%        |
| 17        | 10.439      | 1413          | 1419        | 1421         | rBV2     | 33352          | 60401         | 1.64%           | 0.173%        |
| 18        | 10.539      | 1431          | 1436        | 1442         | rVB2     | 178193         | 247077        | 6.69%           | 0.707%        |
| 19        | 10.616      | 1444          | 1449        | 1454         | rBV      | 306931         | 407404        | 11.03%          | 1.165%        |
| 20        | 10.739      | 1465          | 1470        | 1476         | rVB4     | 57283          | 96306         | 2.61%           | 0.275%        |
| 21        | 10.922      | 1495          | 1501        | 1504         | rBV3     | 53733          | 95863         | 2.60%           | 0.274%        |
| 22        | 11.051      | 1518          | 1523        | 1525         | rBV2     | 44648          | 71845         | 1.94%           | 0.205%        |
| 23        | 11.122      | 1531          | 1535        | 1539         | rVB      | 41100          | 48682         | 1.32%           | 0.139%        |
| 24        | 11.169      | 1539          | 1543        | 1547         | rBV3     | 50815          | 96804         | 2.62%           | 0.277%        |
| 25        | 11.210      | 1547          | 1550        | 1556         | rVB      | 88605          | 126218        | 3.42%           | 0.361%        |
| 26        | 11.274      | 1557          | 1561        | 1564         | rBV      | 39767          | 51408         | 1.39%           | 0.147%        |
| 27        | 11.339      | 1564          | 1572        | 1577         | rBV2     | 1274899        | 2133013       | 57.74%          | 6.100%        |
| 28        | 11.392      | 1577          | 1581        | 1585         | rVV      | 402771         | 505512        | 13.68%          | 1.446%        |
| 29        | 11.551      | 1604          | 1608        | 1615         | rBV3     | 51576          | 117139        | 3.17%           | 0.335%        |
| 30        | 11.610      | 1615          | 1618        | 1621         | rVV      | 63528          | 80384         | 2.18%           | 0.230%        |
| 31        | 11.645      | 1621          | 1624        | 1629         | rVB2     | 36645          | 53803         | 1.46%           | 0.154%        |
| 32        | 11.816      | 1649          | 1653        | 1655         | rBV      | 184009         | 237613        | 6.43%           | 0.680%        |
| 33        | 11.845      | 1655          | 1658        | 1662         | rVV      | 310714         | 396101        | 10.72%          | 1.133%        |
| 34        | 11.892      | 1662          | 1666        | 1669         | rVV      | 138818         | 188699        | 5.11%           | 0.540%        |
| 35        | 11.933      | 1669          | 1673        | 1681         | rVB      | 405309         | 736317        | 19.93%          | 2.106%        |
| 36        | 12.016      | 1682          | 1687        | 1691         | rBV5     | 41007          | 80333         | 2.17%           | 0.230%        |

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 Operator : RC/JU  
 Sample : Q1232-15  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-42.2-012925

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-BF020625.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 12.116 | 1698 | 1704 | 1707 | rBV  | 166840  | 264124  | 7.15%   | 0.755%  |
| 38 | 12.263 | 1725 | 1729 | 1732 | rBV  | 98041   | 126723  | 3.43%   | 0.362%  |
| 39 | 12.292 | 1732 | 1734 | 1737 | rBV2 | 32319   | 38156   | 1.03%   | 0.109%  |
| 40 | 12.369 | 1743 | 1747 | 1750 | rBV  | 150139  | 219763  | 5.95%   | 0.628%  |
| 41 | 12.404 | 1750 | 1753 | 1759 | rVV2 | 122722  | 227342  | 6.15%   | 0.650%  |
| 42 | 12.457 | 1759 | 1762 | 1767 | rVB2 | 152285  | 204955  | 5.55%   | 0.586%  |
| 43 | 12.539 | 1770 | 1776 | 1780 | rBV  | 2393224 | 3270647 | 88.54%  | 9.353%  |
| 44 | 12.574 | 1780 | 1782 | 1789 | rVB3 | 85318   | 142462  | 3.86%   | 0.407%  |
| 45 | 12.680 | 1797 | 1800 | 1807 | rVB2 | 85974   | 132716  | 3.59%   | 0.380%  |
| 46 | 12.768 | 1807 | 1815 | 1820 | rBV  | 2248177 | 3693974 | 100.00% | 10.564% |
| 47 | 12.810 | 1820 | 1822 | 1828 | rVB2 | 116497  | 158452  | 4.29%   | 0.453%  |
| 48 | 12.904 | 1830 | 1838 | 1845 | rVB2 | 1068992 | 1631549 | 44.17%  | 4.666%  |
| 49 | 12.980 | 1845 | 1851 | 1858 | rBV4 | 198922  | 428191  | 11.59%  | 1.225%  |
| 50 | 13.039 | 1858 | 1861 | 1863 | rBV3 | 76128   | 101653  | 2.75%   | 0.291%  |
| 51 | 13.086 | 1863 | 1869 | 1873 | rVB  | 312299  | 565350  | 15.30%  | 1.617%  |
| 52 | 13.157 | 1877 | 1881 | 1884 | rBV  | 229512  | 288183  | 7.80%   | 0.824%  |
| 53 | 13.192 | 1884 | 1887 | 1894 | rVB3 | 239708  | 370505  | 10.03%  | 1.060%  |
| 54 | 13.286 | 1900 | 1903 | 1906 | rBV  | 106339  | 132136  | 3.58%   | 0.378%  |
| 55 | 13.315 | 1906 | 1908 | 1917 | rVB2 | 128784  | 179309  | 4.85%   | 0.513%  |
| 56 | 13.598 | 1954 | 1956 | 1961 | rVB  | 119156  | 152788  | 4.14%   | 0.437%  |
| 57 | 13.710 | 1971 | 1975 | 1977 | rBV2 | 166558  | 230615  | 6.24%   | 0.660%  |
| 58 | 13.810 | 1989 | 1992 | 1999 | rVB  | 124531  | 165742  | 4.49%   | 0.474%  |
| 59 | 13.957 | 2011 | 2017 | 2020 | rBV2 | 1229051 | 2090958 | 56.60%  | 5.980%  |
| 60 | 13.992 | 2020 | 2023 | 2029 | rVB  | 938240  | 1272732 | 34.45%  | 3.640%  |
| 61 | 14.068 | 2033 | 2036 | 2040 | rVB  | 197572  | 227807  | 6.17%   | 0.651%  |
| 62 | 14.345 | 2081 | 2083 | 2087 | rVB  | 135827  | 153855  | 4.17%   | 0.440%  |
| 63 | 15.004 | 2189 | 2195 | 2203 | rBV  | 863834  | 1923165 | 52.06%  | 5.500%  |
| 64 | 15.104 | 2209 | 2212 | 2216 | rVB  | 149445  | 183312  | 4.96%   | 0.524%  |
| 65 | 15.298 | 2241 | 2245 | 2250 | rVB  | 478970  | 733310  | 19.85%  | 2.097%  |
| 66 | 15.362 | 2251 | 2256 | 2261 | rVB  | 702980  | 1068495 | 28.93%  | 3.056%  |
| 67 | 15.421 | 2262 | 2266 | 2268 | rBV  | 159770  | 250793  | 6.79%   | 0.717%  |
| 68 | 16.868 | 2506 | 2512 | 2520 | rVB2 | 315193  | 656238  | 17.77%  | 1.877%  |
| 69 | 17.303 | 2581 | 2586 | 2599 | rVB  | 233404  | 557944  | 15.10%  | 1.596%  |

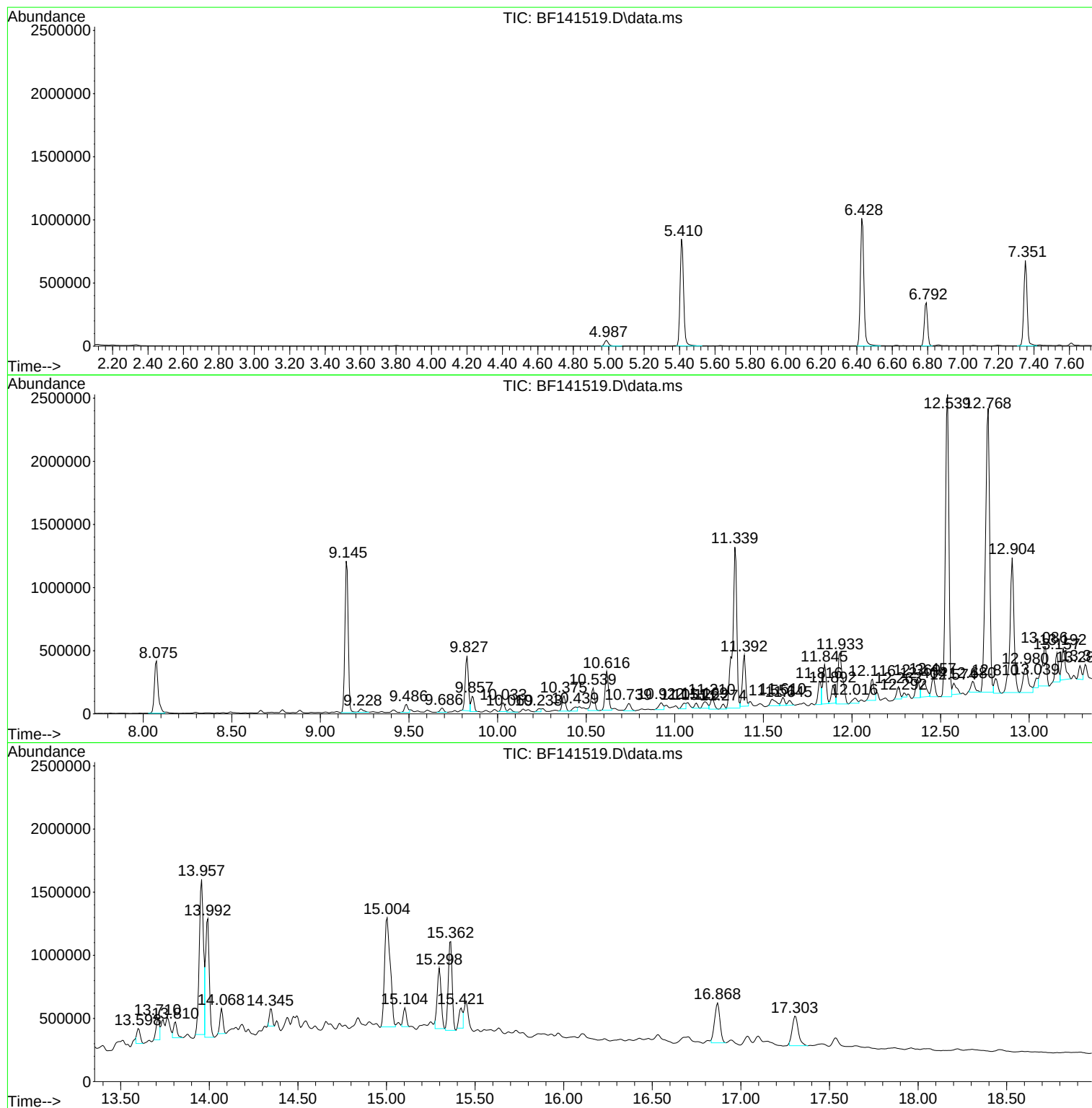
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Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.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\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
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Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

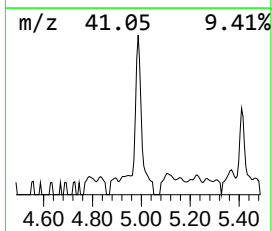
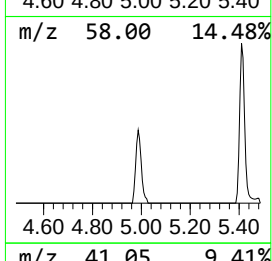
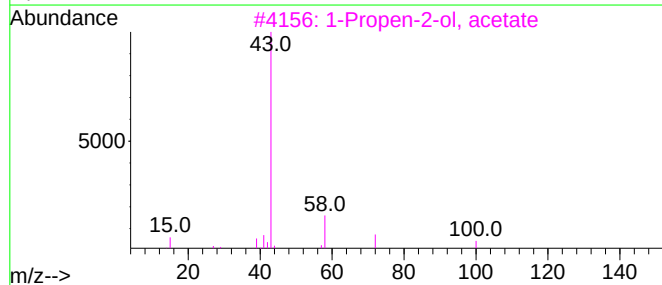
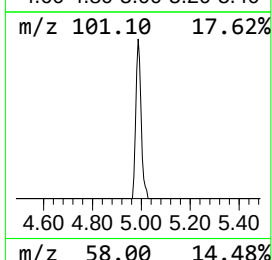
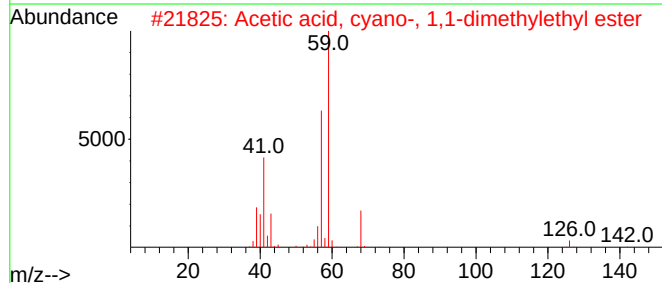
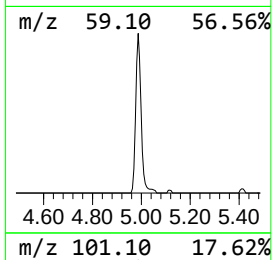
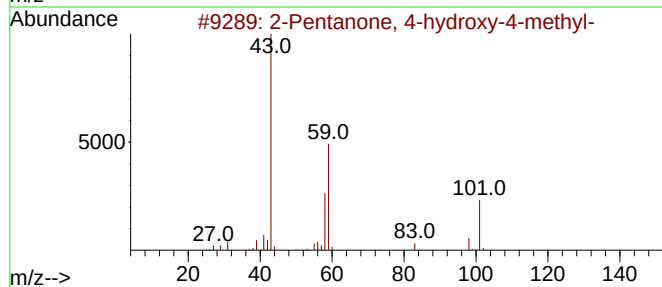
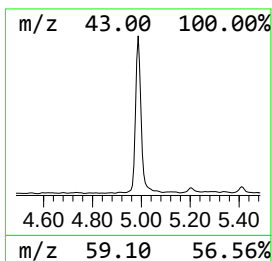
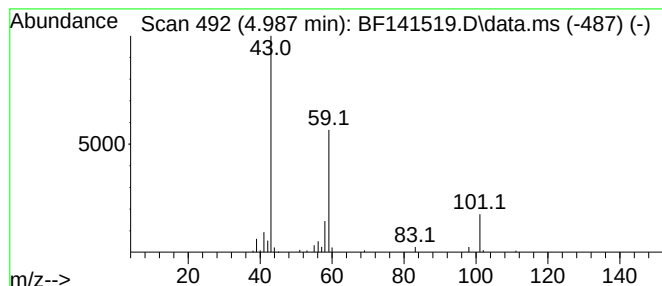
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD       | R.T.  |
|-------|---------|-------|------------------------|-------|
| 4.987 | 3.27 ng | 70775 | 1,4-Dichlorobenzene-d4 | 6.792 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|------|-------------------------------------|-----|----------|-------------|------|
| 1    |      | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 72   |
| 2    |      | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |      | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 12   |
| 4    |      | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |      | 4-Penten-2-one, 4-methyl-           | 98  | C6H10O   | 003744-02-3 | 9    |



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Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

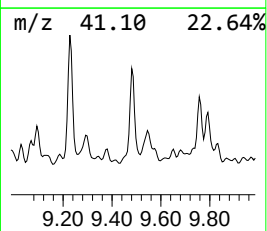
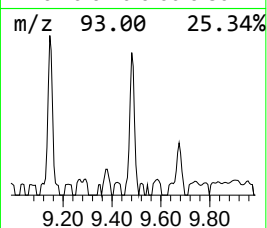
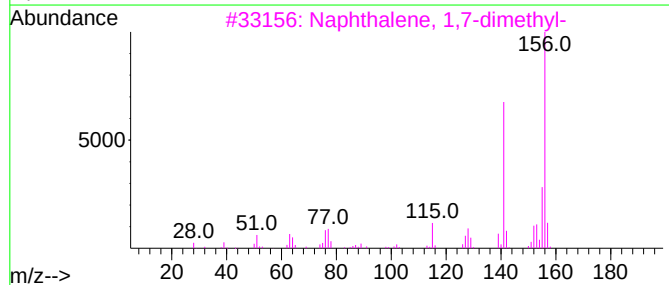
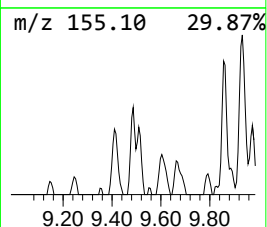
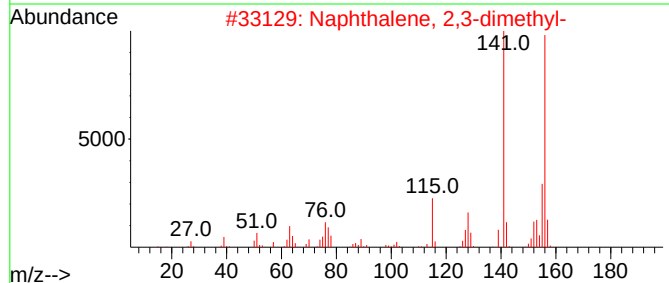
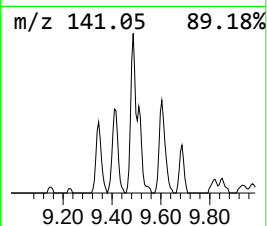
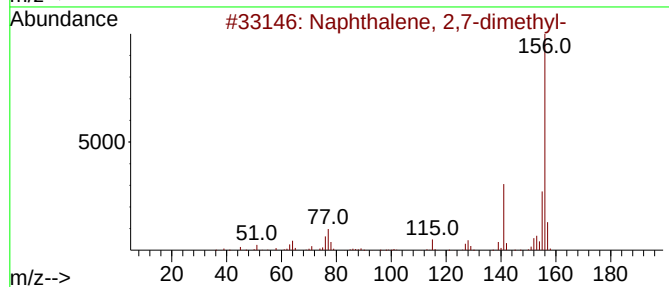
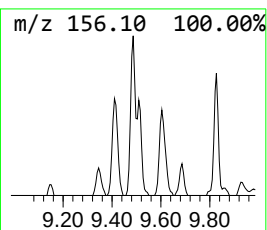
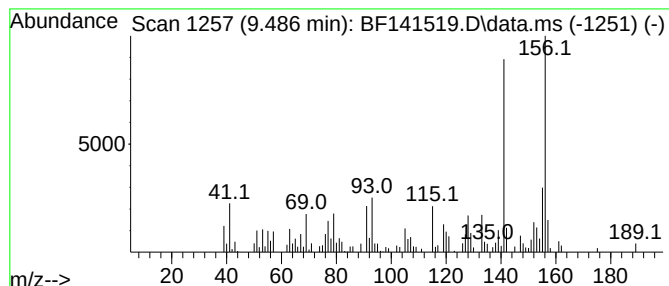
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Naphthalene, 2,7-dimethyl- Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 9.486 | 3.34 ng | 91365 | Acenaphthene-d10 | 9.827 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 5    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

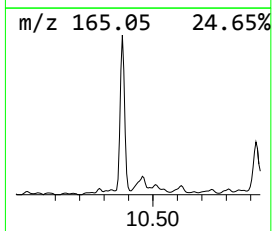
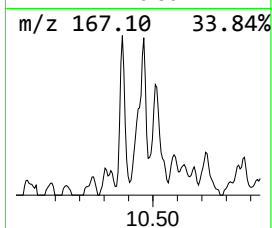
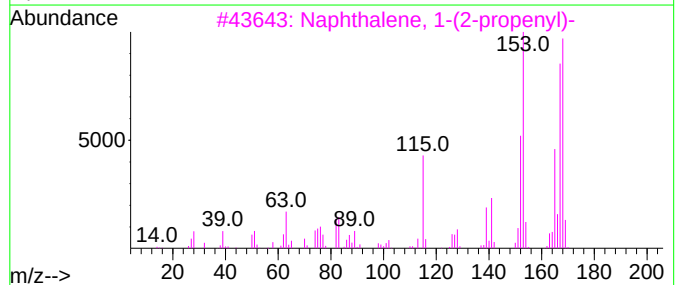
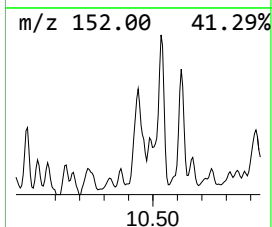
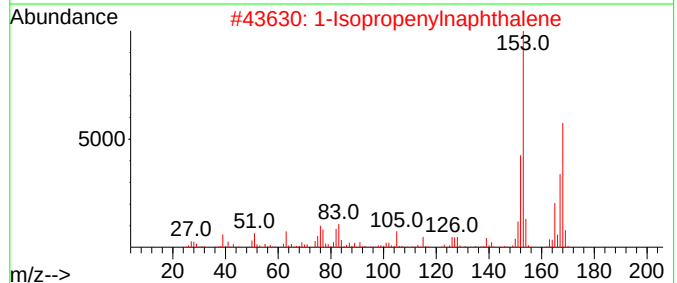
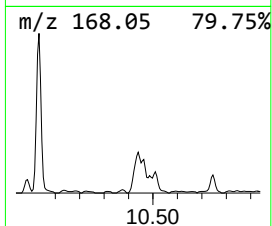
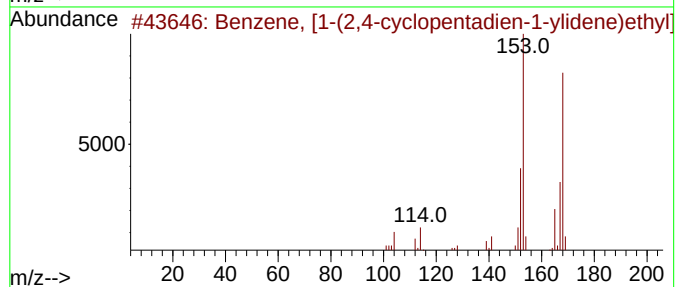
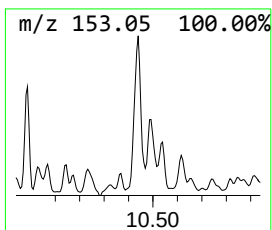
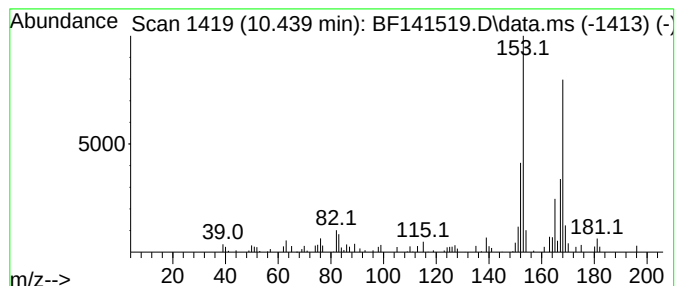
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Benzene, [1-(2,4-cyclopenta... Concentration Rank 14

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.  |
|--------|---------|-------|------------------|-------|
| 10.439 | 2.21 ng | 60401 | Acenaphthene-d10 | 9.827 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 90   |
| 2    |    |   | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 74   |
| 3    |    |   | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 64   |
| 4    |    |   | Naphthalene, 2-(1-methylethenyl)-   | 168 | C13H12  | 003710-23-4 | 59   |
| 5    |    |   | 4-Methylthio-2,6-xlenol             | 168 | C9H12OS | 007379-49-9 | 50   |



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Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

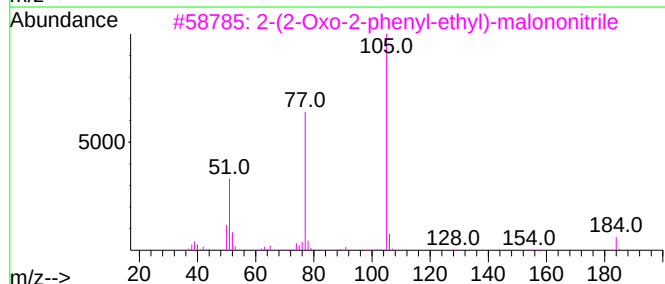
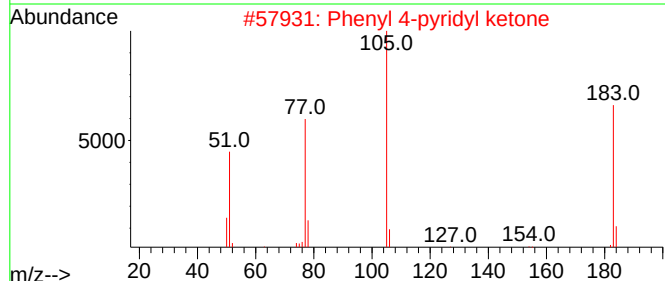
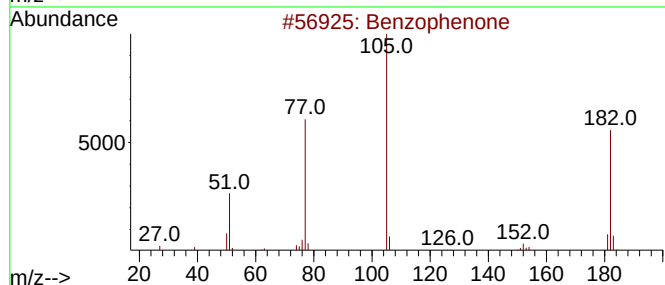
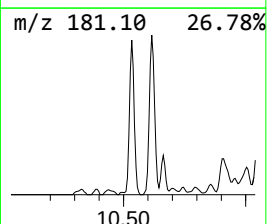
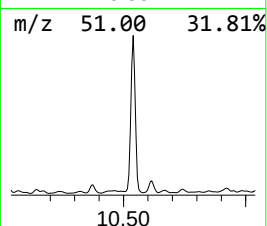
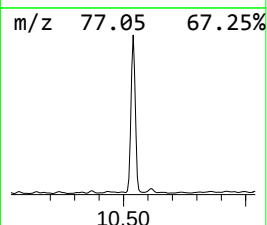
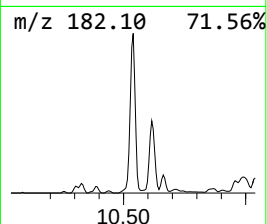
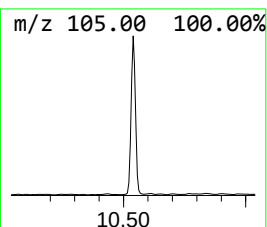
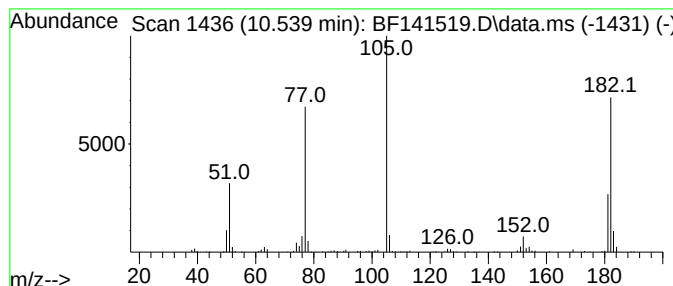
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Benzophenone Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.539 | 9.03 ng | 247077 | Acenaphthene-d10 | 9.827 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O   | 000119-61-9  | 95   |
| 2    |    |   | Phenyl 4-pyridyl ketone             | 183 | C12H9NO   | 014548-46-0  | 53   |
| 3    |    |   | 2-(2-Oxo-2-phenyl-ethyl)-malonon... | 184 | C11H8N2O  | 1000296-76-9 | 49   |
| 4    |    |   | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS    | 005925-68-8  | 46   |
| 5    |    |   | Glyoxylohydroximoyl chloride, 2-... | 183 | C8H6ClNO2 | 004937-87-5  | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

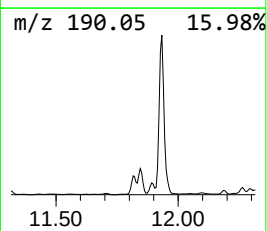
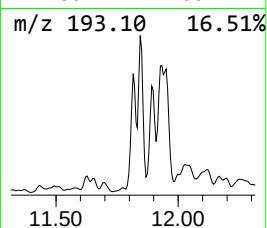
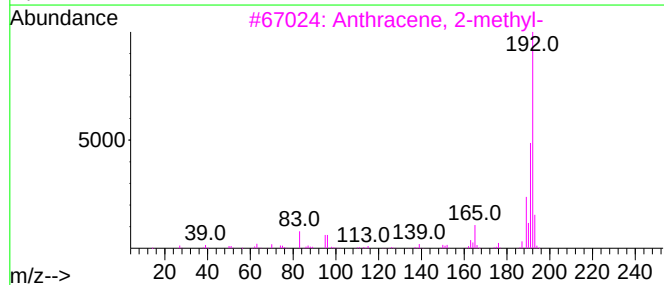
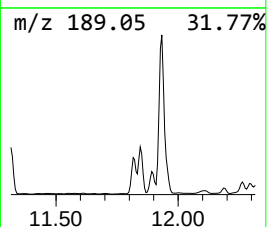
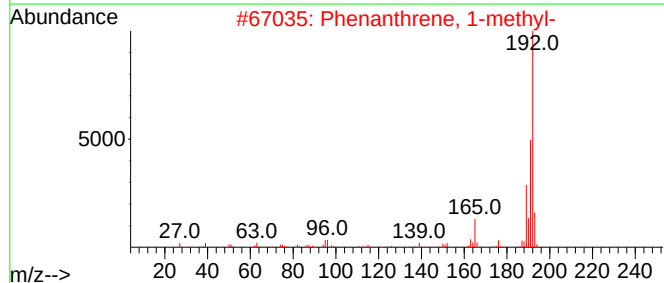
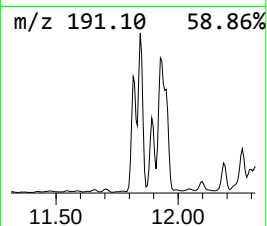
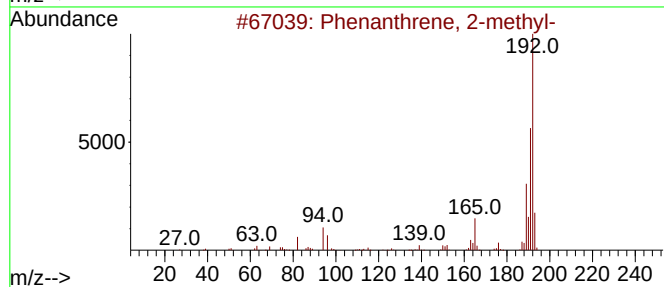
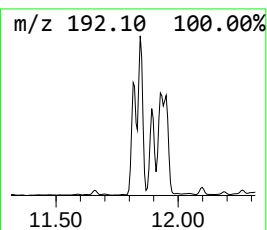
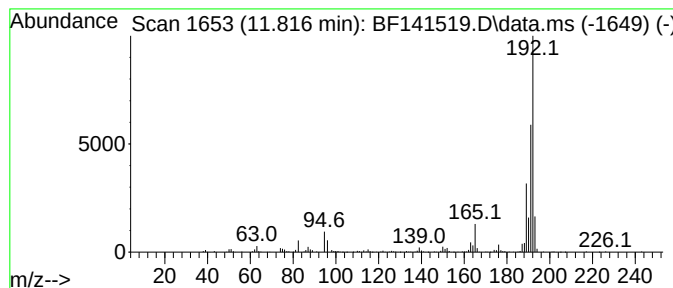
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.816 | 2.23 ng | 237613 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 4    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 95   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

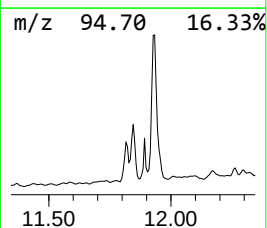
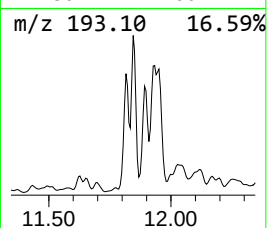
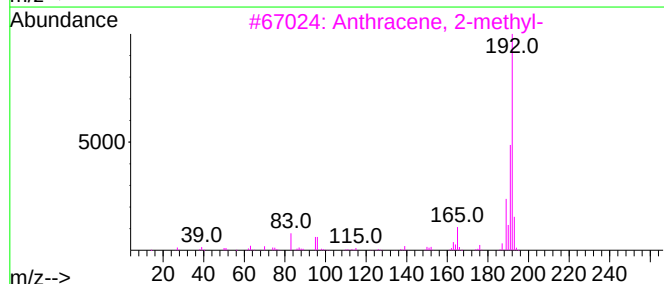
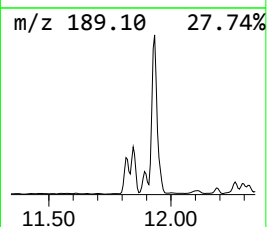
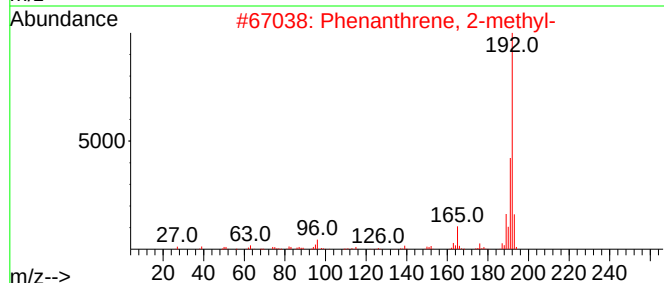
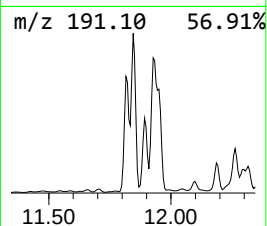
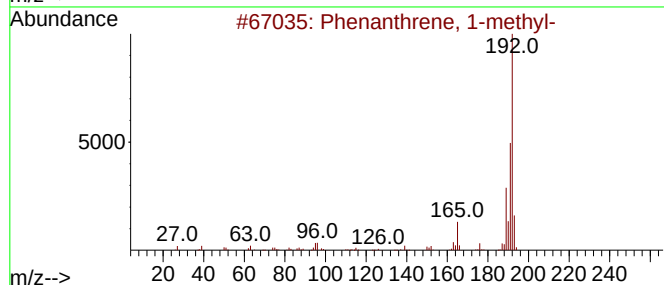
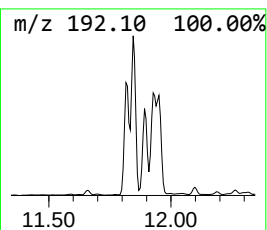
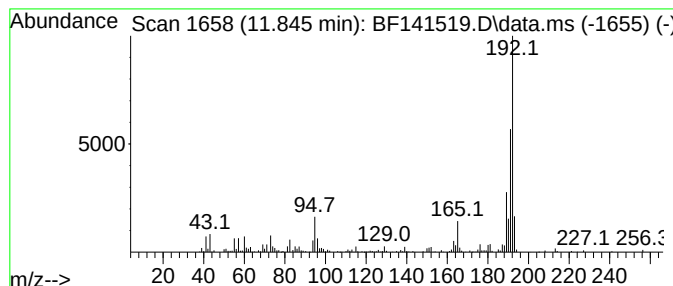
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.845 | 3.71 ng | 396101 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 97   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 5    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

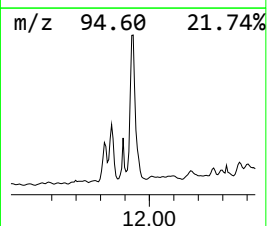
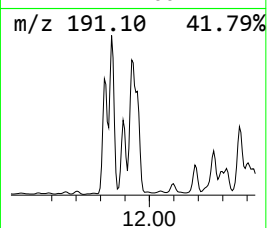
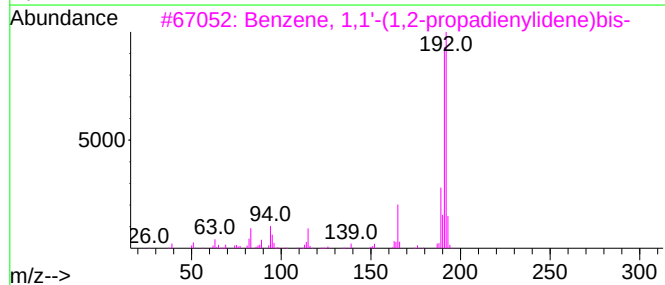
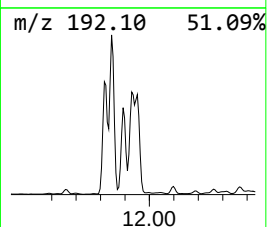
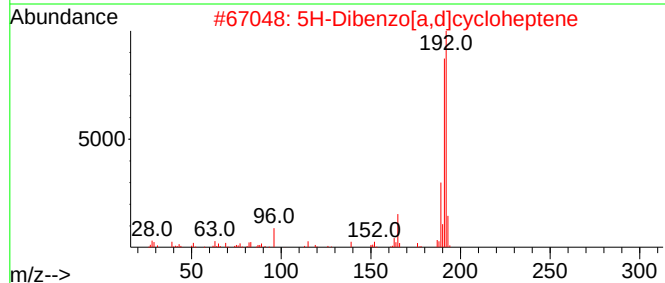
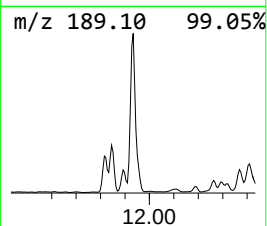
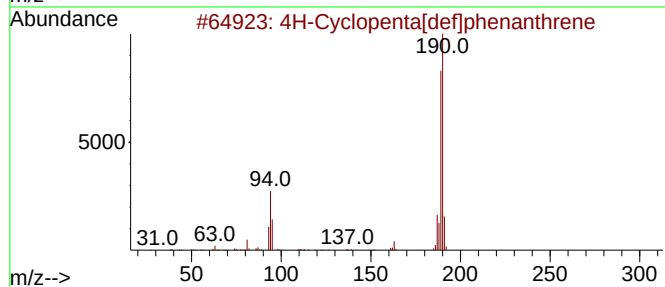
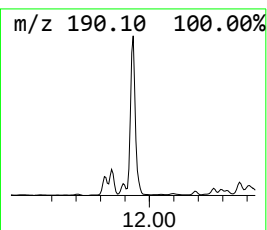
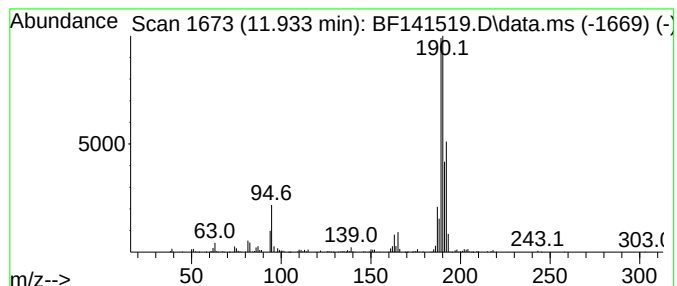
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.      | EstConc                            | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|--------|------------------|-------------|------|
| 11.933    | 6.90 ng                            | 736317 | Phenanthrene-d10 | 11.316      |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene     | 190    | C15H10           | 000203-64-5 | 93   |
| 2         | 5H-Dibenzo[a,d]cycloheptene        | 192    | C15H12           | 000256-81-5 | 22   |
| 3         | Benzene, 1,1'-(1,2-propadienyli... | 192    | C15H12           | 014251-57-1 | 22   |
| 4         | 1H-Indene, 2-phenyl-               | 192    | C15H12           | 004505-48-0 | 20   |
| 5         | Phenanthrene, 4-methyl-            | 192    | C15H12           | 000832-64-4 | 18   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

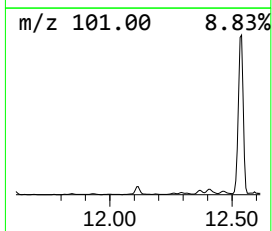
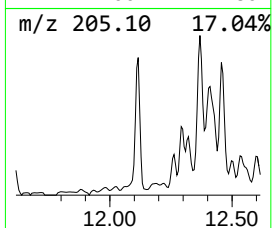
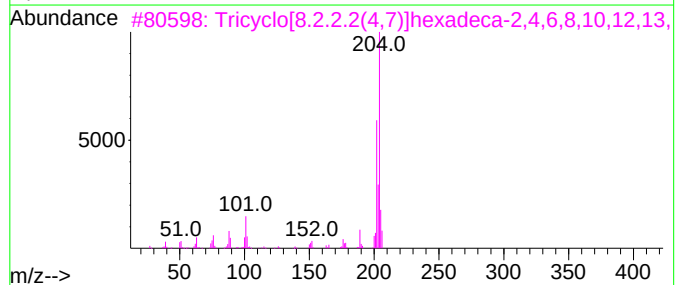
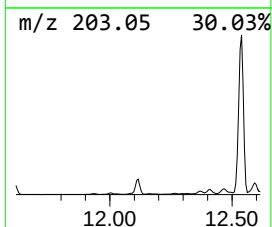
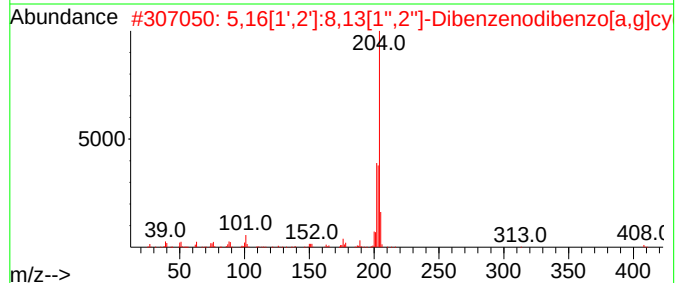
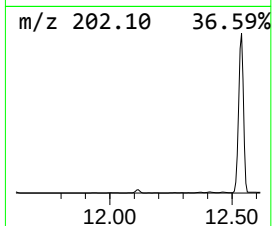
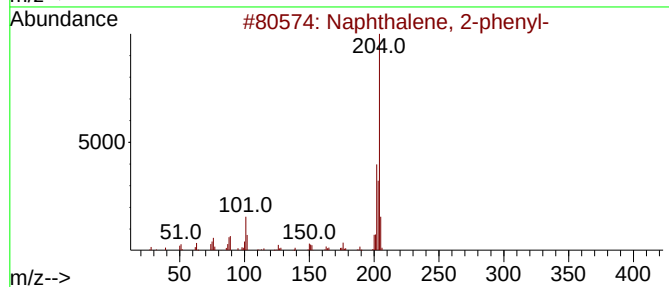
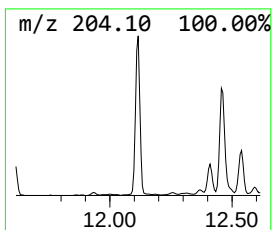
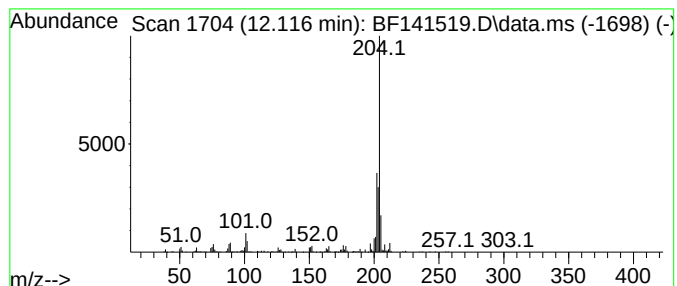
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.116 | 2.48 ng | 264124 | Phenanthrene-d10 | 11.316 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 93   |
| 2    |    |   | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 87   |
| 3    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 68   |
| 4    |    |   | 6-Cyanophenanthridine               | 204 | C14H8N2 | 002176-28-5 | 60   |
| 5    |    |   | Naphthalene, 1-phenyl-              | 204 | C16H12  | 000605-02-7 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
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Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

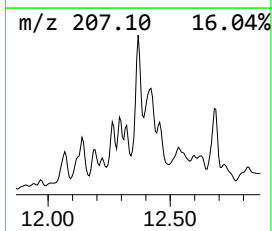
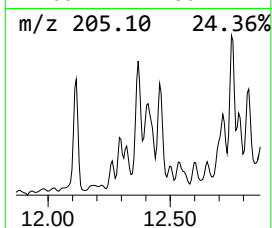
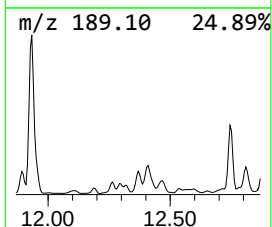
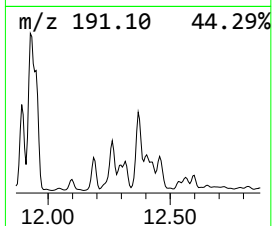
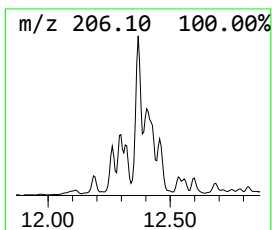
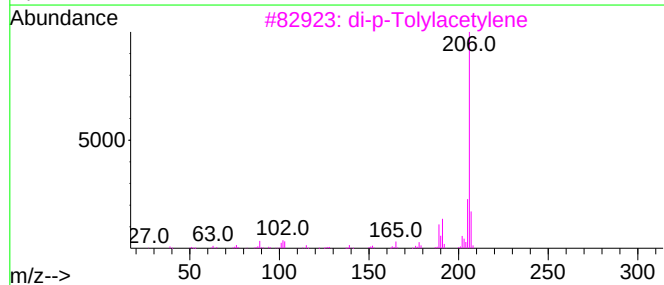
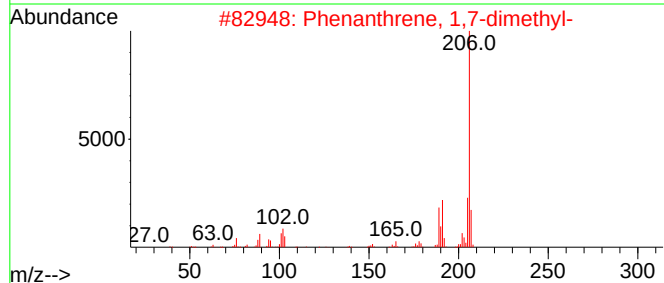
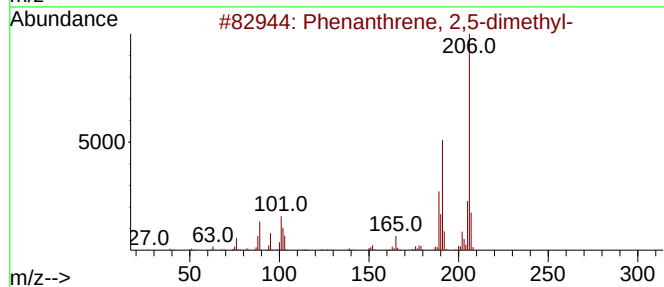
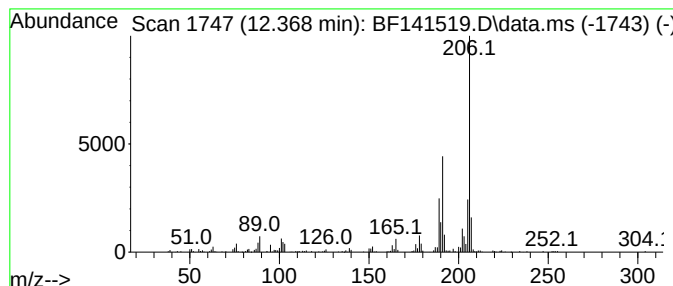
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ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.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 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

| R.T.      | EstConc                     | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------------------|--------|------------------|---------|-------------|------|
| 12.368    | 2.06 ng                     | 219763 | Phenanthrene-d10 |         | 11.316      |      |
| Hit# of 5 | Tentative ID                |        | MW               | MolForm | CAS#        | Qual |
| 1         | Phenanthrene, 2,5-dimethyl- |        | 206              | C16H14  | 003674-66-6 | 97   |
| 2         | Phenanthrene, 1,7-dimethyl- |        | 206              | C16H14  | 000483-87-4 | 93   |
| 3         | di-p-Tolylacetylene         |        | 206              | C16H14  | 002789-88-0 | 93   |
| 4         | 9,10-Dimethylantracene      |        | 206              | C16H14  | 000781-43-1 | 91   |
| 5         | Phenanthrene, 2,3-dimethyl- |        | 206              | C16H14  | 003674-65-5 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

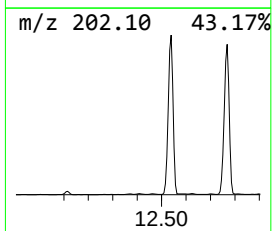
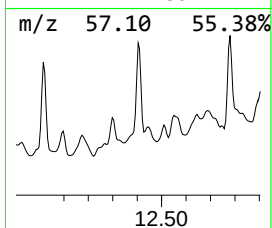
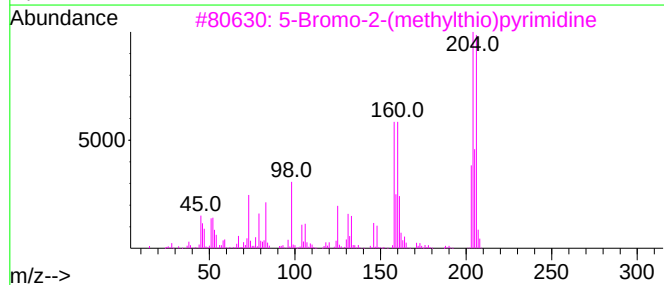
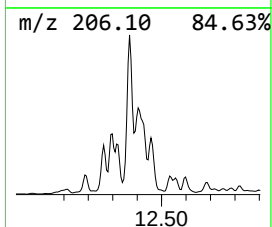
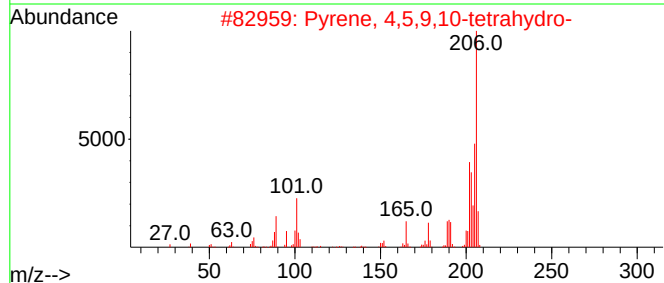
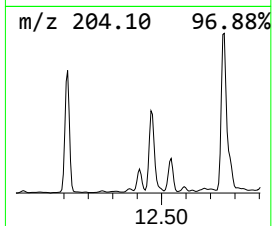
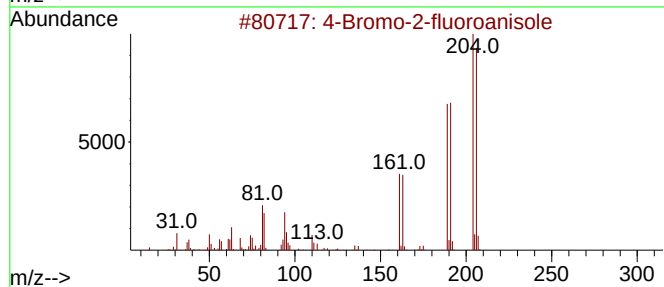
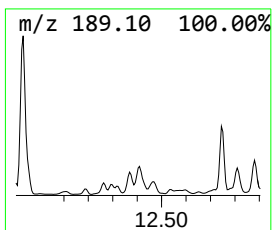
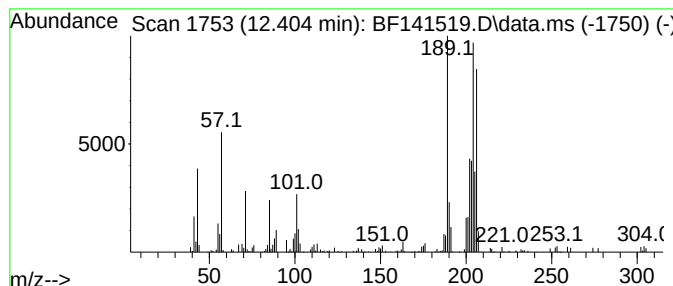
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 unknown12.404 Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.404 | 2.13 ng | 227342 | Phenanthrene-d10 | 11.316 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|------|-------------------------------------|-----|------------|--------------|------|
| 1    |      | 4-Bromo-2-fluoroanisole             | 204 | C7H6BrFO   | 002357-52-0  | 38   |
| 2    |      | Pyrene, 4,5,9,10-tetrahydro-        | 206 | C16H14     | 000781-17-9  | 38   |
| 3    |      | 5-Bromo-2-(methylthio)pyrimidine    | 204 | C5H5BrN2S  | 014001-67-3  | 38   |
| 4    |      | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2  | 034373-96-1  | 35   |
| 5    |      | 3-Methoxy-2,4,5-trifluorobenzoic... | 248 | C11H11F3O3 | 1000338-75-8 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

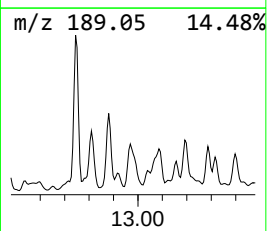
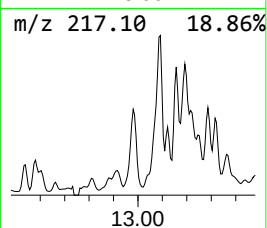
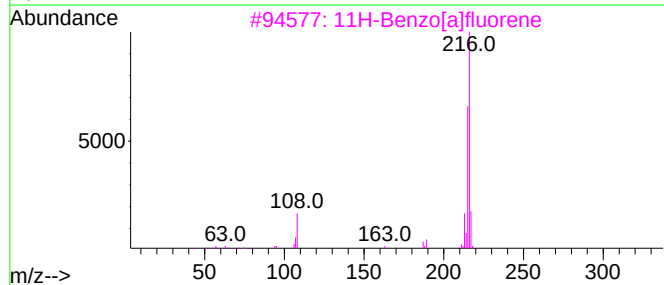
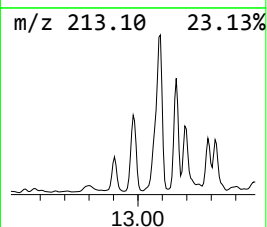
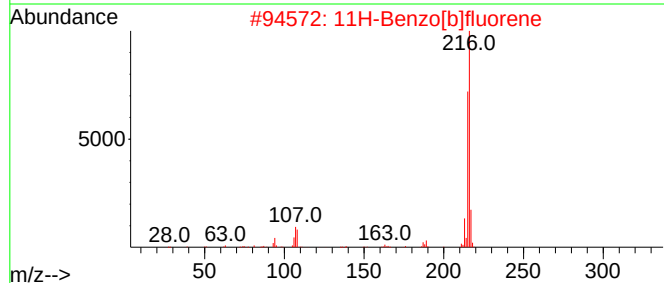
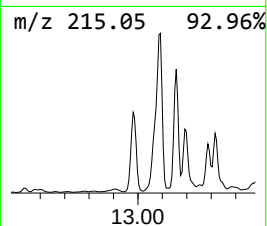
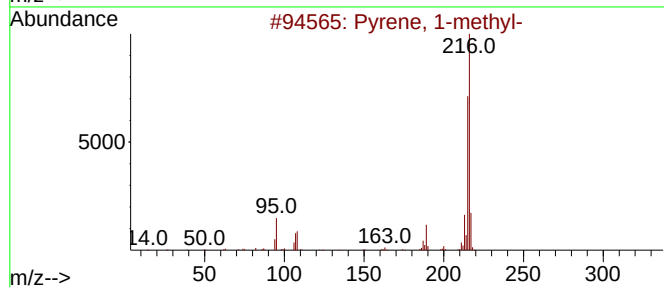
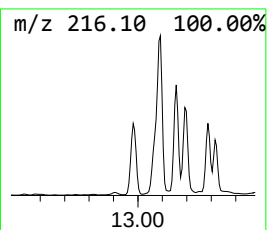
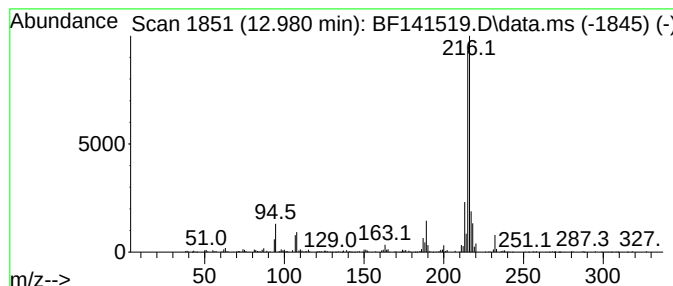
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JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.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 11 Pyrene, 1-methyl- Concentration Rank 6

| R.T.      | EstConc                 | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------|--------|------------------|---------|-------------|------|
| 12.980    | 4.10 ng                 | 428191 | Chrysene-d12     |         | 13.963      |      |
| Hit# of 5 | Tentative ID            |        | MW               | MolForm | CAS#        | Qual |
| 1         | Pyrene, 1-methyl-       |        | 216              | C17H12  | 002381-21-7 | 96   |
| 2         | 11H-Benzo[b]fluorene    |        | 216              | C17H12  | 000243-17-4 | 81   |
| 3         | 11H-Benzo[a]fluorene    |        | 216              | C17H12  | 000238-84-6 | 76   |
| 4         | Fluoranthene, 2-methyl- |        | 216              | C17H12  | 033543-31-6 | 76   |
| 5         | Pyrene, 2-methyl-       |        | 216              | C17H12  | 003442-78-2 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

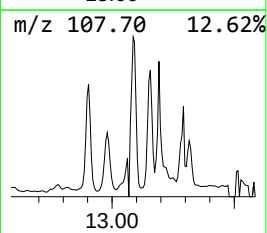
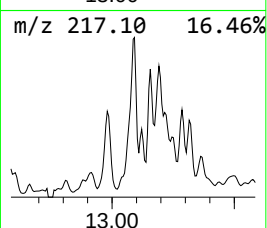
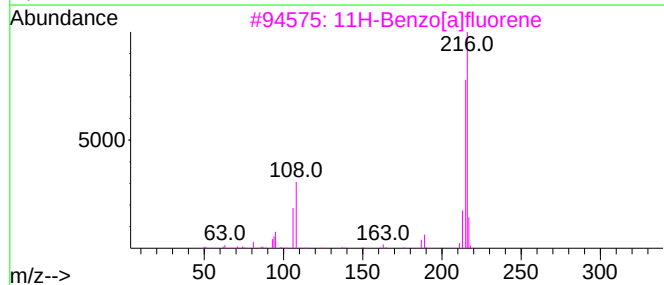
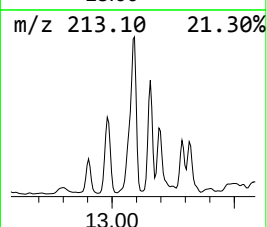
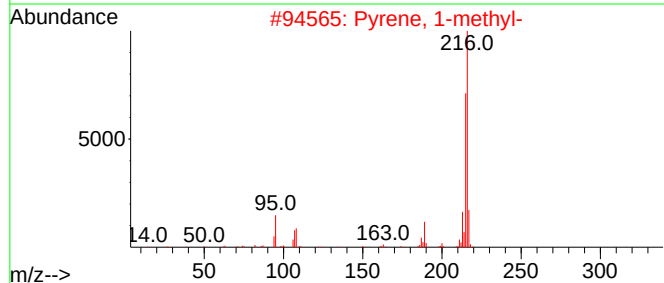
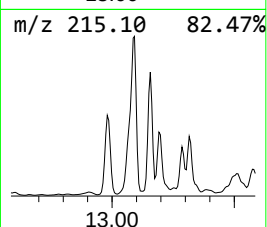
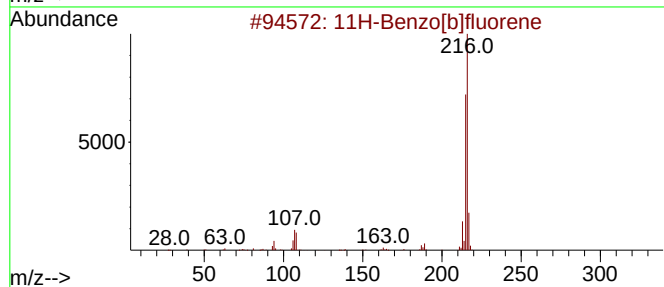
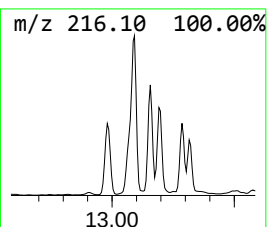
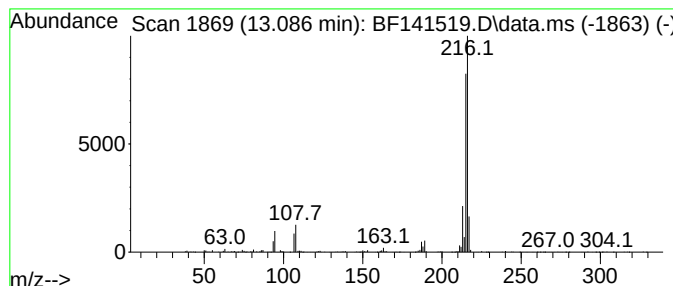
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.086 | 5.41 ng | 565350 | Chrysene-d12     | 13.963 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 95   |
| 2    |      | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 94   |
| 3    |      | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 4    |      | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 91   |
| 5    |      | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
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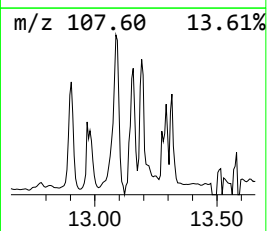
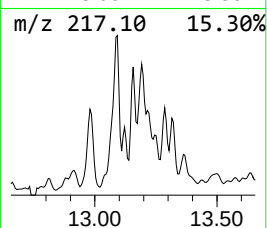
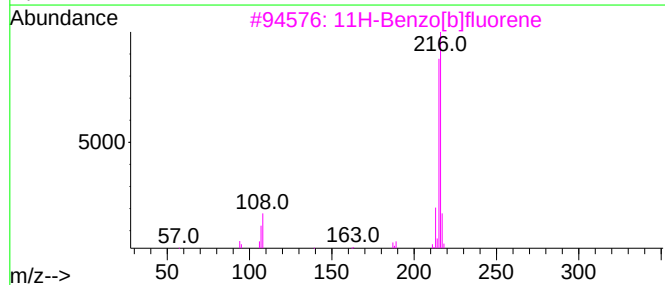
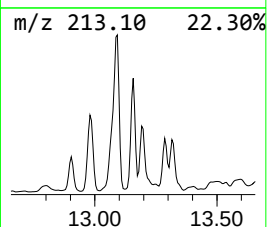
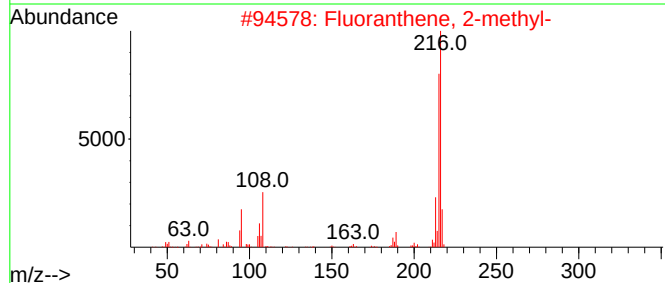
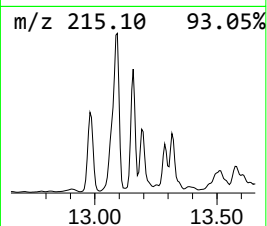
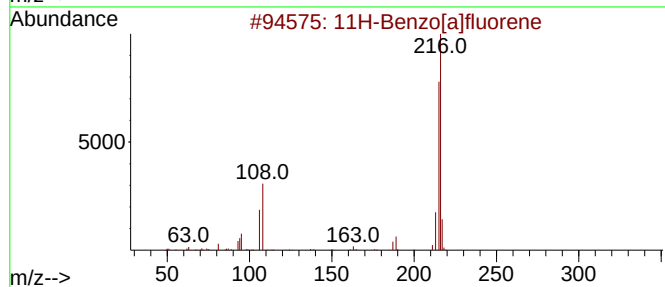
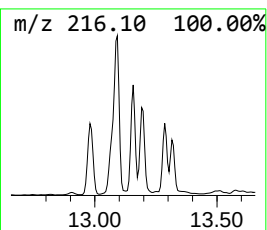
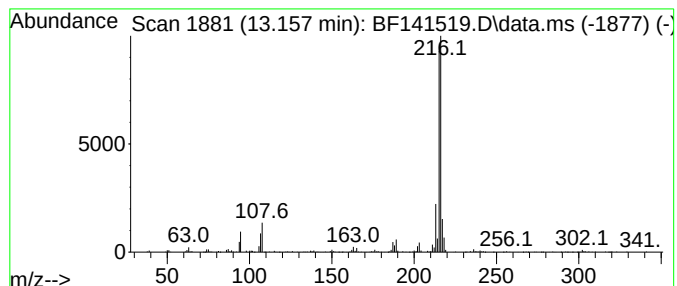
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 11H-Benzo[a]fluorene Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.157 | 2.76 ng | 288183 | Chrysene-d12     | 13.963 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 87   |
| 2    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 81   |
| 3    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 81   |
| 4    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 76   |
| 5    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 74   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

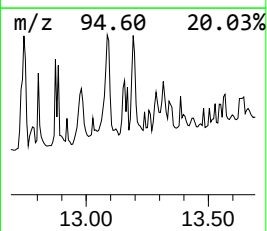
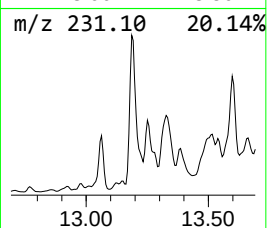
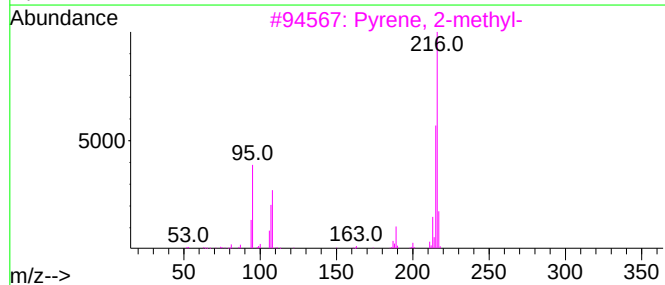
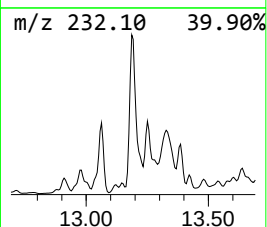
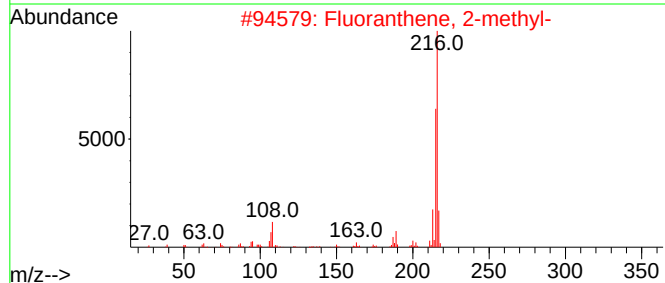
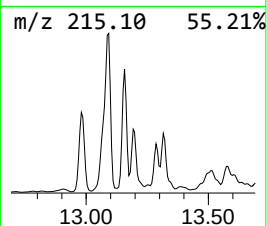
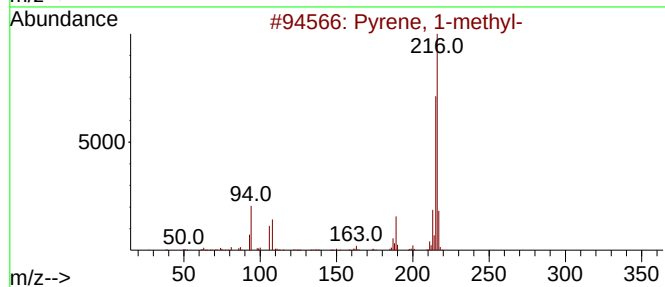
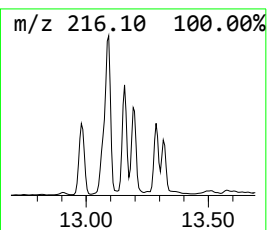
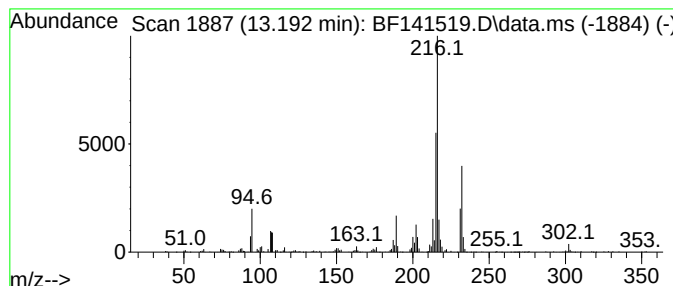
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.192 | 3.54 ng | 370505 | Chrysene-d12     | 13.963 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 91   |
| 2    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |
| 3    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 83   |
| 4    |    |   | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 50   |
| 5    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 49   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

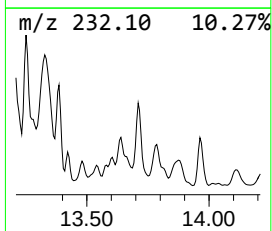
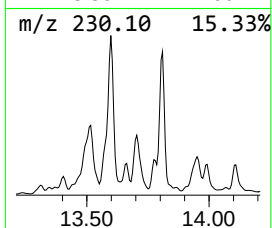
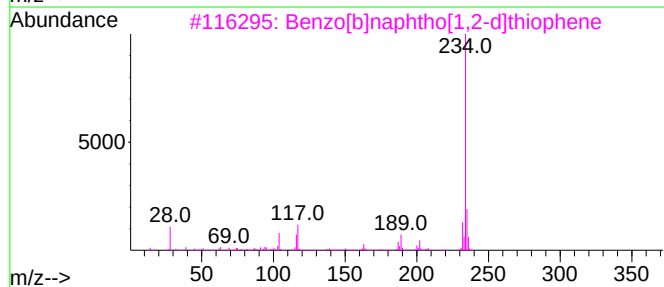
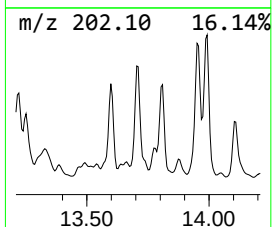
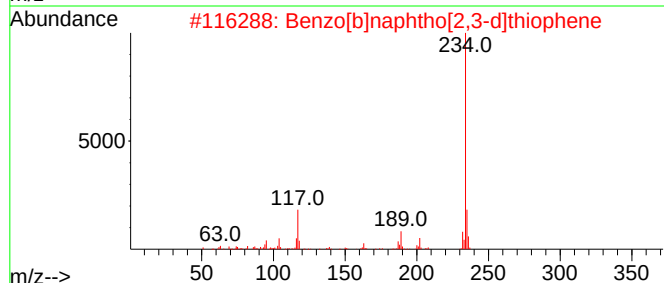
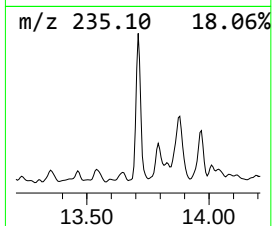
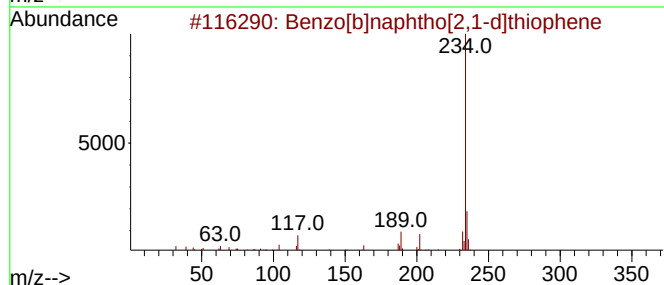
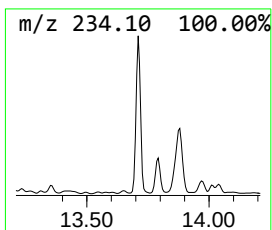
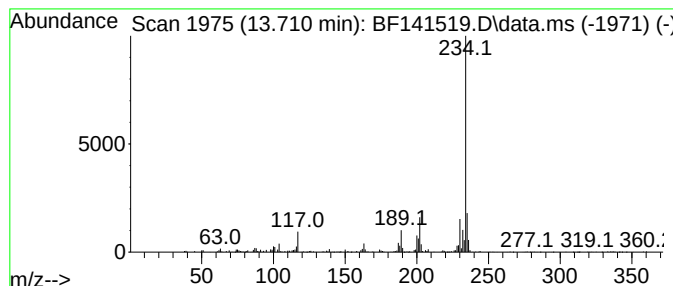
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 15

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.710    | 2.21 ng                             | 230615 | Chrysene-d12     | 13.963       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Benzo[b]naphtho[2,1-d]thiophene     | 234    | C16H10S          | 000239-35-0  | 95   |
| 2         | Benzo[b]naphtho[2,3-d]thiophene     | 234    | C16H10S          | 000243-46-9  | 90   |
| 3         | Benzo[b]naphtho[1,2-d]thiophene     | 234    | C16H10S          | 000205-43-6  | 76   |
| 4         | Quinoxalino[2,3-b]quinoxaline, 5... | 234    | C14H10N4         | 000531-46-4  | 59   |
| 5         | pyrido[1',2':1,2]imidazo[4,5-b]q... | 234    | C14H10N4         | 1000401-06-3 | 58   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
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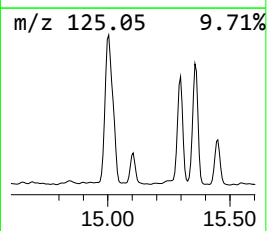
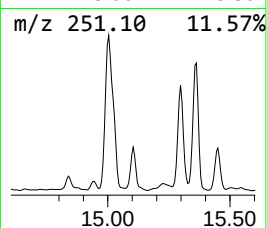
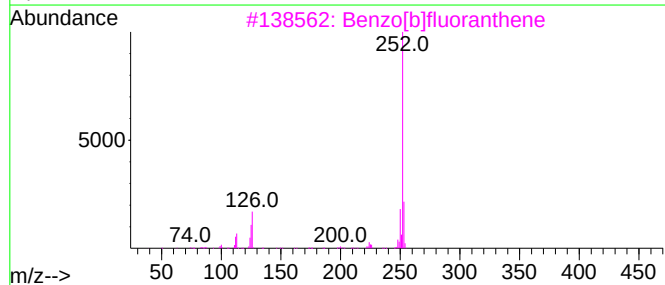
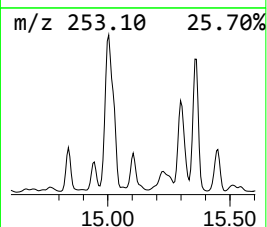
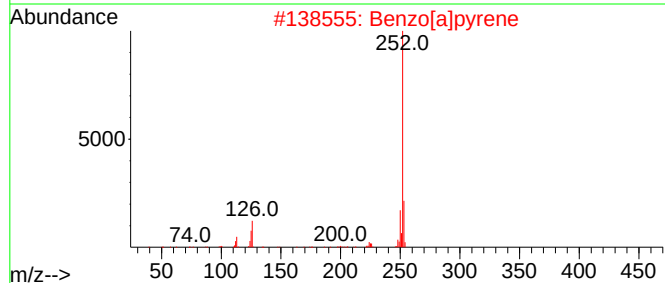
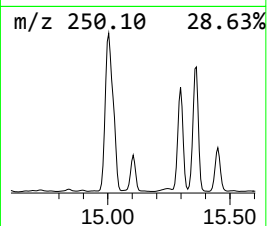
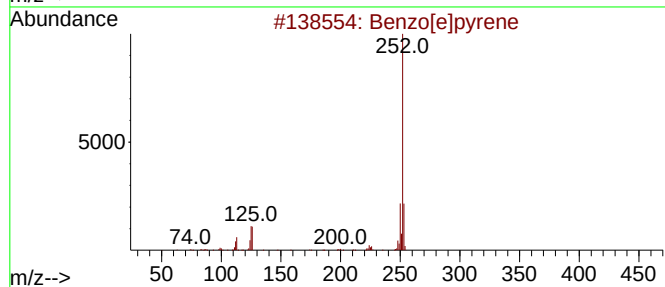
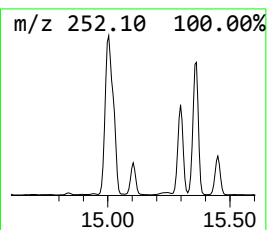
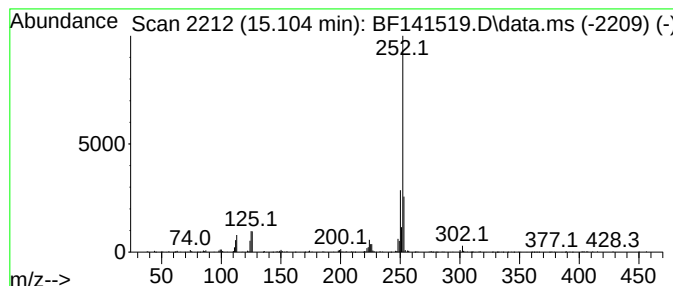
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Benzo[e]pyrene Concentration Rank 2

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.104 | 14.62 ng | 183312 | Perylene-d12     | 15.421 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 91   |
| 2    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |
| 3    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 90   |
| 4    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 89   |
| 5    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

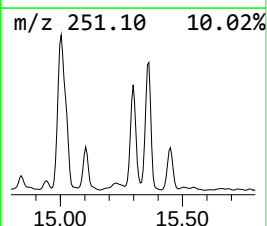
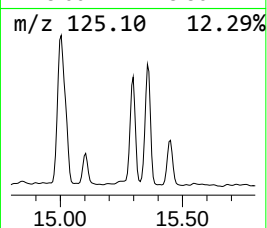
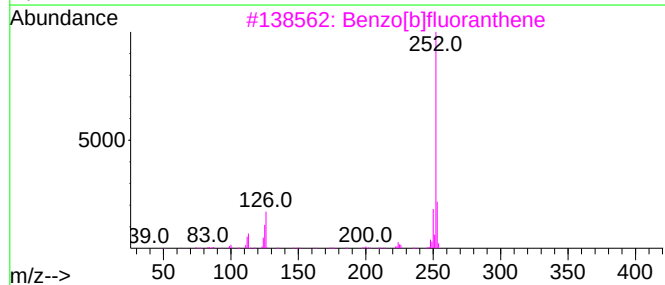
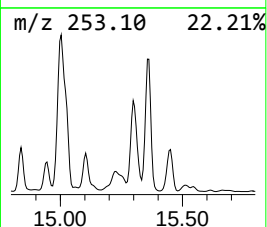
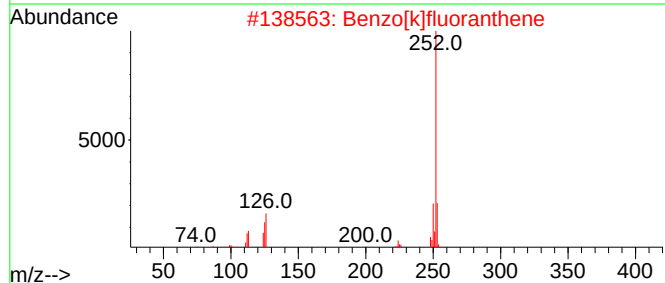
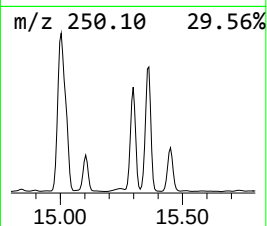
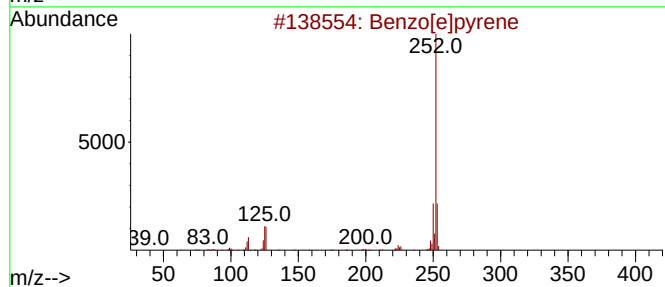
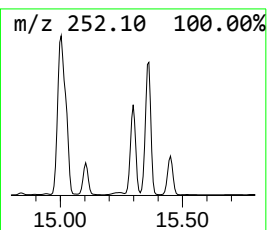
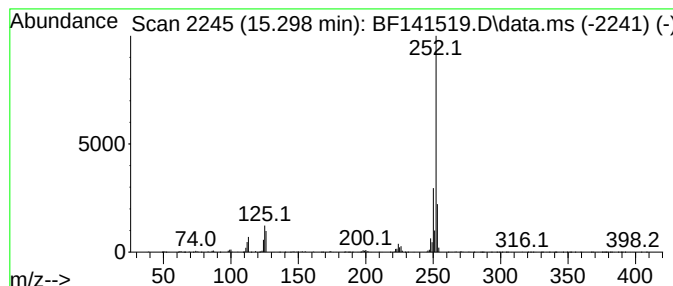
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 Perylene Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.298 | 58.48 ng | 733310 | Perylene-d12     | 15.421 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 97   |
| 3    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 94   |
| 4    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 94   |
| 5    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020725\  
Data File : BF141519.D  
Acq On : 07 Feb 2025 20:21  
Operator : RC/JU  
Sample : Q1232-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JPP-42.2-012925

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF020625.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 |
| 2-Pentanone, 4-... | 4.987  | 3.3     | ng    | 70775    | 1                     | 6.792  | 432810  | 20.0 |
| Naphthalene, 2,... | 9.486  | 3.3     | ng    | 91365    | 3                     | 9.827  | 547348  | 20.0 |
| Benzene, [1-(2,... | 10.439 | 2.2     | ng    | 60401    | 3                     | 9.827  | 547348  | 20.0 |
| Benzophenone       | 10.539 | 9.0     | ng    | 247077   | 3                     | 9.827  | 547348  | 20.0 |
| Phenanthrene, 2... | 11.816 | 2.2     | ng    | 237613   | 4                     | 11.316 | 2133010 | 20.0 |
| Phenanthrene, 1... | 11.845 | 3.7     | ng    | 396101   | 4                     | 11.316 | 2133010 | 20.0 |
| 4H-Cyclopenta[d... | 11.933 | 6.9     | ng    | 736317   | 4                     | 11.316 | 2133010 | 20.0 |
| Naphthalene, 2-... | 12.116 | 2.5     | ng    | 264124   | 4                     | 11.316 | 2133010 | 20.0 |
| Phenanthrene, 2... | 12.368 | 2.1     | ng    | 219763   | 4                     | 11.316 | 2133010 | 20.0 |
| unknown12.404      | 12.404 | 2.1     | ng    | 227342   | 4                     | 11.316 | 2133010 | 20.0 |
| Pyrene, 1-methyl-  | 12.980 | 4.1     | ng    | 428191   | 5                     | 13.963 | 2090960 | 20.0 |
| 11H-Benzo[b]flu... | 13.086 | 5.4     | ng    | 565350   | 5                     | 13.963 | 2090960 | 20.0 |
| 11H-Benzo[a]flu... | 13.157 | 2.8     | ng    | 288183   | 5                     | 13.963 | 2090960 | 20.0 |
| Fluoranthene, 2... | 13.192 | 3.5     | ng    | 370505   | 5                     | 13.963 | 2090960 | 20.0 |
| Benzo[b]naphtho... | 13.710 | 2.2     | ng    | 230615   | 5                     | 13.963 | 2090960 | 20.0 |
| Cyclopenta(cd)p... | 14.068 | 2.2     | ng    | 227807   | 5                     | 13.963 | 2090960 | 20.0 |
| Benzo[e]pyrene     | 15.104 | 14.6    | ng    | 183312   | 6                     | 15.421 | 250793  | 20.0 |
| Perylene           | 15.298 | 58.5    | ng    | 733310   | 6                     | 15.421 | 250793  | 20.0 |