

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100522\  
 Data File : BF130534.D  
 Acq On : 05 Oct 2022 17:35  
 Operator : CG\JU  
 Sample : N4960-05 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PAT-03-100322

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-BF091422.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF130534.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         | 4.792       | 454           | 460         | 472          | rBV      | 50269          | 63137         | 5.91%           | 0.644%        |
| 2         | 5.234       | 532           | 535         | 549          | rBV      | 221134         | 272898        | 25.53%          | 2.783%        |
| 3         | 6.275       | 709           | 712         | 727          | rBV      | 228740         | 261143        | 24.43%          | 2.663%        |
| 4         | 6.634       | 769           | 773         | 780          | rBV      | 514192         | 431597        | 40.37%          | 4.402%        |
| 5         | 7.198       | 865           | 869         | 880          | rBV      | 163659         | 164231        | 15.36%          | 1.675%        |
| 6         | 7.916       | 987           | 991         | 1001         | rBV      | 571937         | 516197        | 48.28%          | 5.265%        |
| 7         | 8.986       | 1170          | 1173        | 1183         | rVB      | 339782         | 296339        | 27.72%          | 3.022%        |
| 8         | 9.527       | 1262          | 1265        | 1270         | rVB      | 10696          | 10912         | 1.02%           | 0.111%        |
| 9         | 9.663       | 1285          | 1288        | 1291         | rBV      | 623240         | 476649        | 44.58%          | 4.861%        |
| 10        | 9.692       | 1291          | 1293        | 1299         | rVB      | 26338          | 25851         | 2.42%           | 0.264%        |
| 11        | 9.869       | 1320          | 1323        | 1325         | rBV2     | 14928          | 13825         | 1.29%           | 0.141%        |
| 12        | 10.016      | 1346          | 1348        | 1353         | rVB4     | 9918           | 10708         | 1.00%           | 0.109%        |
| 13        | 10.210      | 1378          | 1381        | 1388         | rBV      | 31276          | 29228         | 2.73%           | 0.298%        |
| 14        | 10.451      | 1416          | 1422        | 1427         | rBV      | 156569         | 153320        | 14.34%          | 1.564%        |
| 15        | 10.574      | 1440          | 1443        | 1448         | rBV3     | 24215          | 30140         | 2.82%           | 0.307%        |
| 16        | 10.951      | 1505          | 1507        | 1511         | rVB      | 11505          | 11681         | 1.09%           | 0.119%        |
| 17        | 10.998      | 1511          | 1515        | 1517         | rBV3     | 8520           | 12702         | 1.19%           | 0.130%        |
| 18        | 11.021      | 1517          | 1519        | 1521         | rVV2     | 19997          | 18962         | 1.77%           | 0.193%        |
| 19        | 11.045      | 1521          | 1523        | 1528         | rVB2     | 22209          | 22894         | 2.14%           | 0.233%        |
| 20        | 11.145      | 1536          | 1540        | 1542         | rBV      | 572522         | 471130        | 44.07%          | 4.805%        |
| 21        | 11.169      | 1542          | 1544        | 1548         | rVV      | 320457         | 248943        | 23.28%          | 2.539%        |
| 22        | 11.221      | 1548          | 1553        | 1556         | rVV      | 76445          | 77697         | 7.27%           | 0.792%        |
| 23        | 11.257      | 1556          | 1559        | 1563         | rVB3     | 10564          | 11067         | 1.04%           | 0.113%        |
| 24        | 11.380      | 1575          | 1580        | 1588         | rBV2     | 29754          | 44296         | 4.14%           | 0.452%        |
| 25        | 11.445      | 1588          | 1591        | 1594         | rBV      | 23792          | 19330         | 1.81%           | 0.197%        |
| 26        | 11.510      | 1598          | 1602        | 1605         | rVV      | 55735          | 57109         | 5.34%           | 0.582%        |
| 27        | 11.645      | 1622          | 1625        | 1627         | rBV      | 42421          | 35675         | 3.34%           | 0.364%        |
| 28        | 11.674      | 1627          | 1630        | 1633         | rVB      | 52277          | 44608         | 4.17%           | 0.455%        |
| 29        | 11.716      | 1633          | 1637        | 1641         | rBV2     | 61955          | 67931         | 6.35%           | 0.693%        |
| 30        | 11.757      | 1641          | 1644        | 1646         | rBV      | 92497          | 87216         | 8.16%           | 0.890%        |
| 31        | 11.851      | 1658          | 1660        | 1663         | rVB2     | 19853          | 15801         | 1.48%           | 0.161%        |
| 32        | 11.945      | 1673          | 1676        | 1678         | rBV      | 33199          | 31719         | 2.97%           | 0.323%        |
| 33        | 11.968      | 1678          | 1680        | 1683         | rVB      | 28245          | 24156         | 2.26%           | 0.246%        |
| 34        | 12.086      | 1697          | 1700        | 1703         | rVB4     | 13316          | 13105         | 1.23%           | 0.134%        |
| 35        | 12.121      | 1703          | 1706        | 1708         | rBV3     | 12276          | 11092         | 1.04%           | 0.113%        |
| 36        | 12.192      | 1714          | 1718        | 1721         | rBV2     | 39275          | 47143         | 4.41%           | 0.481%        |

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 ClientSampleId :  
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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-BF091422.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 37 | 12.233 | 1721 | 1725 | 1727 | rVV2 | 24932  | 34731   | 3.25%   | 0.354%  |
| 38 | 12.280 | 1730 | 1733 | 1737 | rBV  | 31090  | 33416   | 3.13%   | 0.341%  |
| 39 | 12.351 | 1742 | 1745 | 1749 | rBV  | 630234 | 585208  | 54.74%  | 5.968%  |
| 40 | 12.504 | 1764 | 1771 | 1775 | rBV2 | 29342  | 54245   | 5.07%   | 0.553%  |
| 41 | 12.580 | 1778 | 1784 | 1787 | rBV  | 712670 | 701534  | 65.62%  | 7.155%  |
| 42 | 12.704 | 1801 | 1805 | 1806 | rBV  | 44289  | 45305   | 4.24%   | 0.462%  |
| 43 | 12.727 | 1806 | 1809 | 1816 | rVB  | 394112 | 375843  | 35.15%  | 3.833%  |
| 44 | 12.798 | 1816 | 1821 | 1825 | rBV3 | 45390  | 78857   | 7.38%   | 0.804%  |
| 45 | 12.886 | 1833 | 1836 | 1838 | rBV4 | 38305  | 54632   | 5.11%   | 0.557%  |
| 46 | 12.910 | 1838 | 1840 | 1843 | rVB  | 113891 | 95750   | 8.96%   | 0.977%  |
| 47 | 12.945 | 1843 | 1846 | 1847 | rBV2 | 15558  | 16679   | 1.56%   | 0.170%  |
| 48 | 12.974 | 1847 | 1851 | 1854 | rBV  | 91320  | 83702   | 7.83%   | 0.854%  |
| 49 | 13.010 | 1854 | 1857 | 1860 | rBV  | 74705  | 81413   | 7.61%   | 0.830%  |
| 50 | 13.104 | 1870 | 1873 | 1875 | rVB  | 34325  | 28902   | 2.70%   | 0.295%  |
| 51 | 13.133 | 1875 | 1878 | 1881 | rBV  | 40696  | 43691   | 4.09%   | 0.446%  |
| 52 | 13.333 | 1910 | 1912 | 1915 | rVB3 | 20253  | 19212   | 1.80%   | 0.196%  |
| 53 | 13.392 | 1920 | 1922 | 1924 | rBV3 | 14928  | 18937   | 1.77%   | 0.193%  |
| 54 | 13.415 | 1924 | 1926 | 1930 | rVB  | 46047  | 44983   | 4.21%   | 0.459%  |
| 55 | 13.527 | 1941 | 1945 | 1947 | rBV  | 66168  | 68969   | 6.45%   | 0.703%  |
| 56 | 13.557 | 1947 | 1950 | 1951 | rBV  | 49802  | 44284   | 4.14%   | 0.452%  |
| 57 | 13.574 | 1951 | 1953 | 1955 | rVV  | 26176  | 19560   | 1.83%   | 0.199%  |
| 58 | 13.627 | 1960 | 1962 | 1965 | rVB  | 51287  | 47507   | 4.44%   | 0.485%  |
| 59 | 13.774 | 1980 | 1987 | 1990 | rBV2 | 720399 | 1069127 | 100.00% | 10.904% |
| 60 | 13.804 | 1990 | 1992 | 1995 | rVB  | 352797 | 267929  | 25.06%  | 2.733%  |
| 61 | 13.880 | 2002 | 2005 | 2008 | rVB  | 88278  | 71739   | 6.71%   | 0.732%  |
| 62 | 14.009 | 2025 | 2027 | 2029 | rVB  | 36146  | 25017   | 2.34%   | 0.255%  |
| 63 | 14.162 | 2051 | 2053 | 2057 | rVB  | 61094  | 51990   | 4.86%   | 0.530%  |
| 64 | 14.198 | 2057 | 2059 | 2063 | rVB2 | 33457  | 31854   | 2.98%   | 0.325%  |
| 65 | 14.257 | 2066 | 2069 | 2071 | rBV3 | 50286  | 45158   | 4.22%   | 0.461%  |
| 66 | 14.286 | 2072 | 2074 | 2076 | rBV  | 38299  | 32175   | 3.01%   | 0.328%  |
| 67 | 14.780 | 2154 | 2158 | 2161 | rBV  | 308315 | 442003  | 41.34%  | 4.508%  |
| 68 | 15.051 | 2201 | 2204 | 2210 | rVB  | 161761 | 189988  | 17.77%  | 1.938%  |
| 69 | 15.109 | 2210 | 2214 | 2219 | rBV  | 229045 | 255618  | 23.91%  | 2.607%  |
| 70 | 15.168 | 2220 | 2224 | 2227 | rBV  | 318345 | 387878  | 36.28%  | 3.956%  |
| 71 | 16.480 | 2443 | 2447 | 2454 | rVB2 | 75281  | 131138  | 12.27%  | 1.337%  |
| 72 | 16.874 | 2510 | 2514 | 2522 | rVB  | 54414  | 95584   | 8.94%   | 0.975%  |

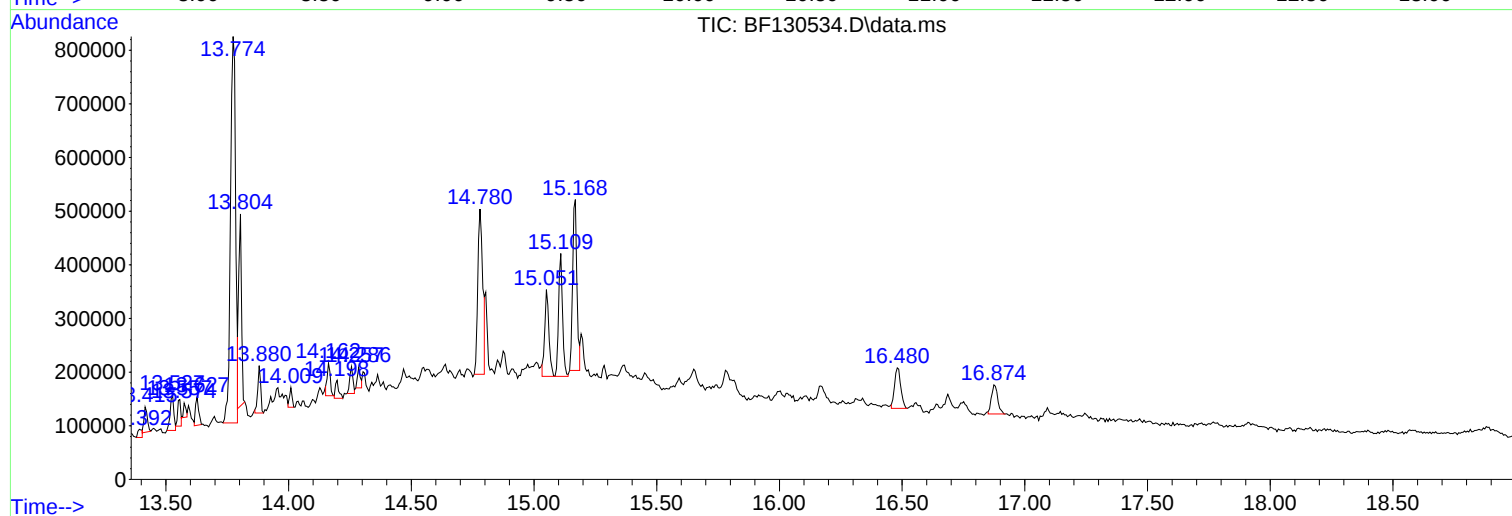
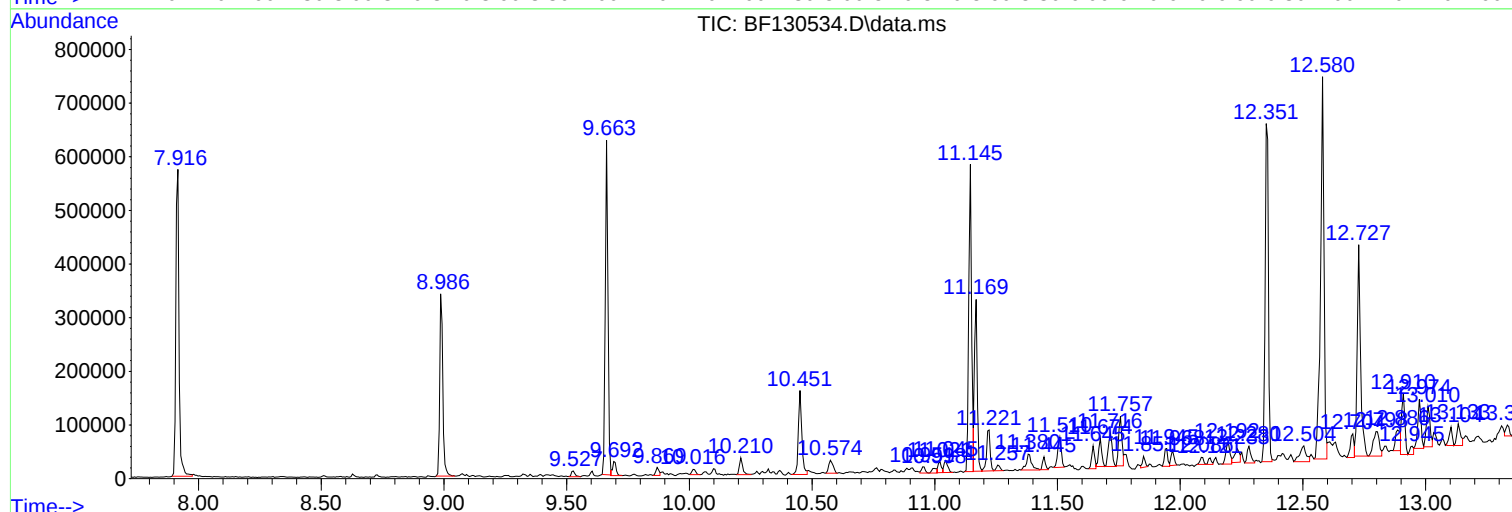
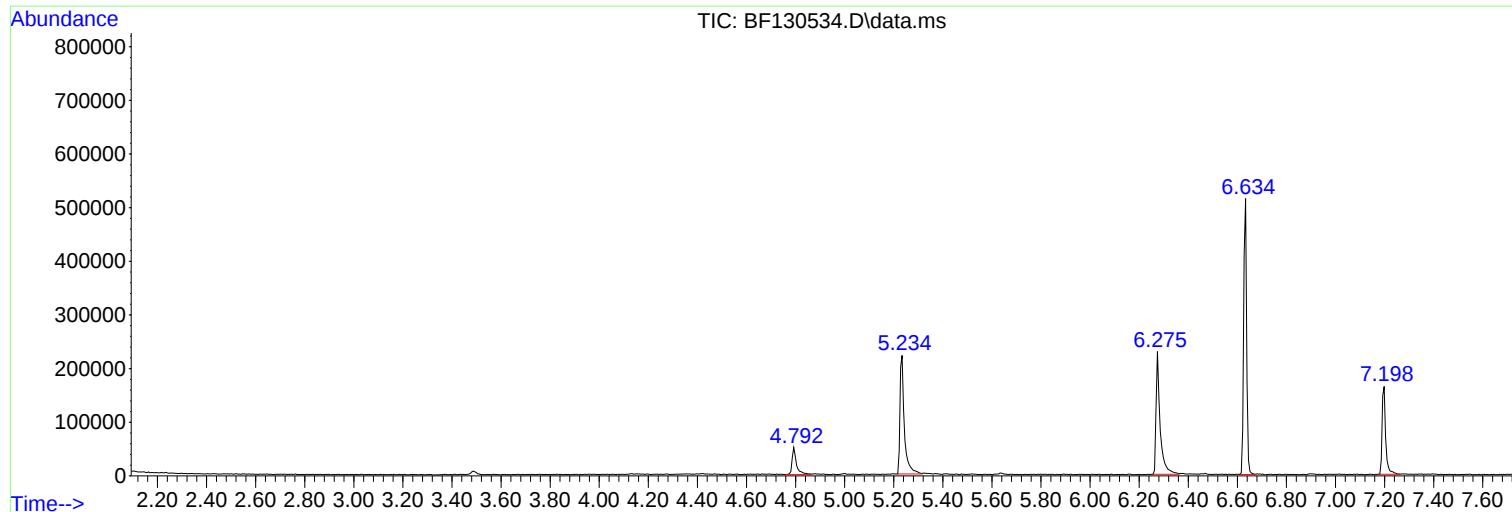
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Data File : BF130534.D  
Acq On : 05 Oct 2022 17:35  
Operator : CG\JU  
Sample : N4960-05 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PAT-03-100322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.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\BF100522\  
Data File : BF130534.D  
Acq On : 05 Oct 2022 17:35  
Operator : CG\JU  
Sample : N4960-05 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PAT-03-100322

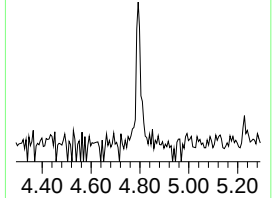
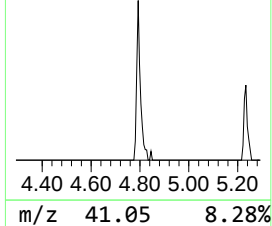
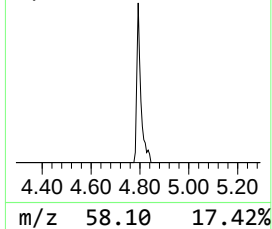
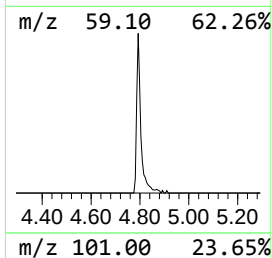
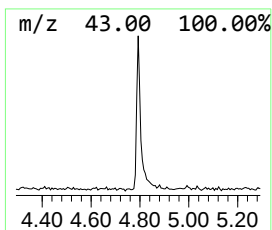
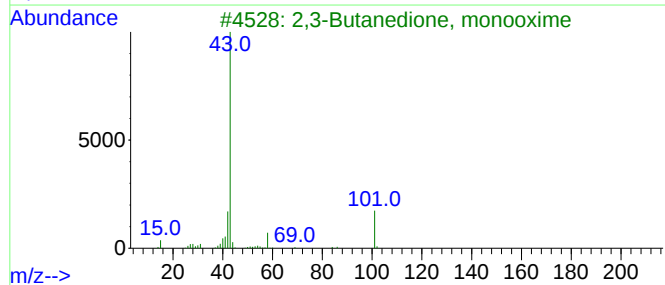
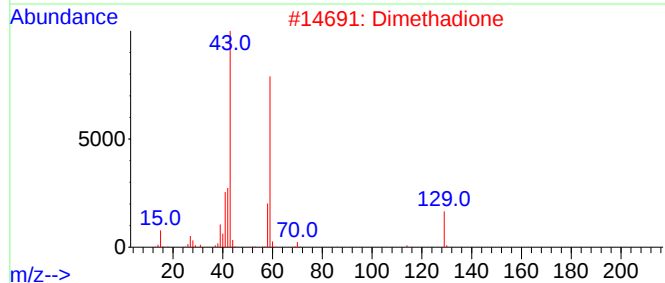
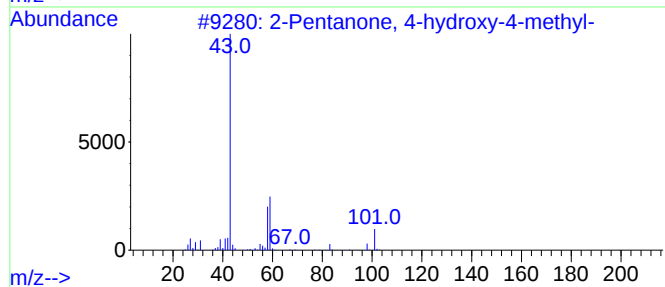
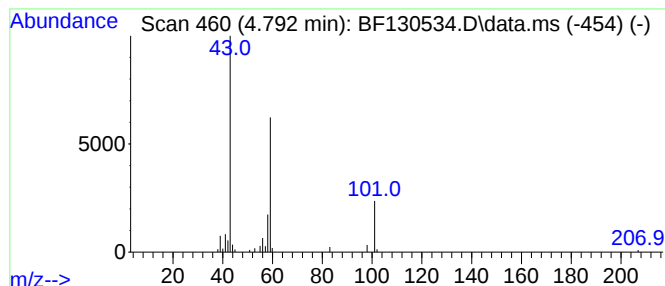
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.  | EstConc | Area  | Relative to ISTD       | R.T.  |
|-------|---------|-------|------------------------|-------|
| 4.792 | 2.93 ng | 63137 | 1,4-Dichlorobenzene-d4 | 6.633 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2      | 000123-42-2  | 56      |      |      |
| 2    | Dimethadione                        | 129 | C5H7NO3      | 000695-53-4  | 40      |      |      |
| 3    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2      | 000057-71-6  | 32      |      |      |
| 4    | Succinic acid, heptyl 2-methoxye... | 274 | C14H26O5     | 1000325-80-7 | 28      |      |      |
| 5    | 1-Propen-2-ol, acetate              | 100 | C5H8O2       | 000108-22-5  | 12      |      |      |



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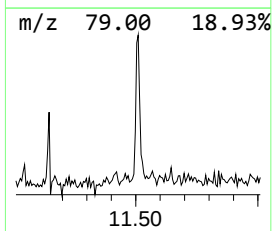
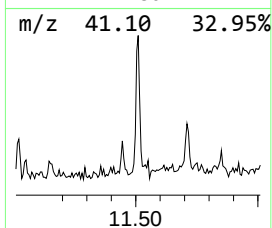
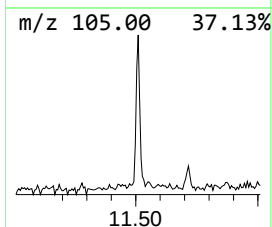
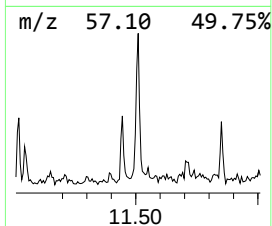
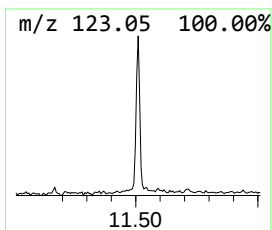
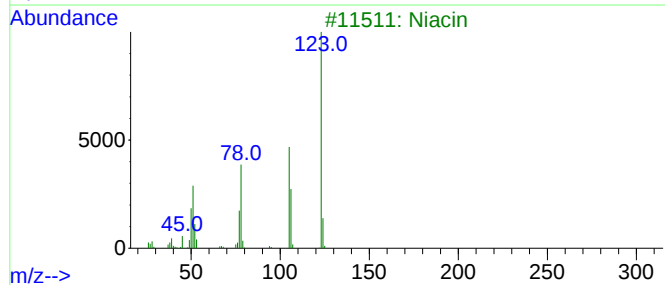
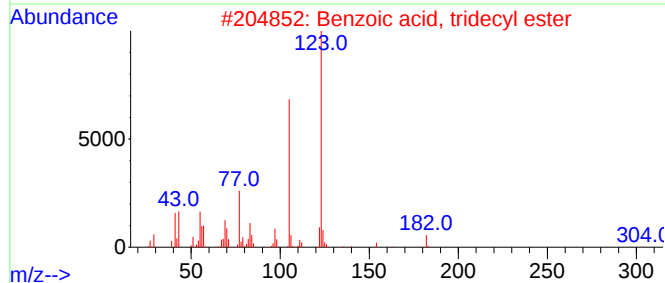
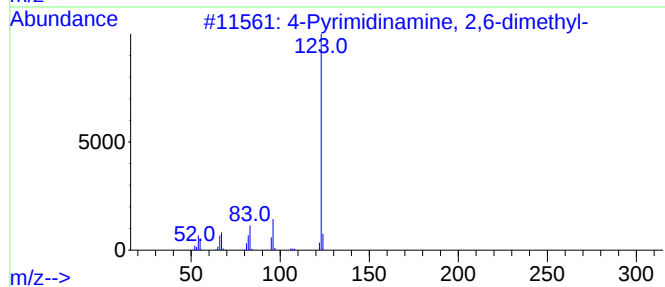
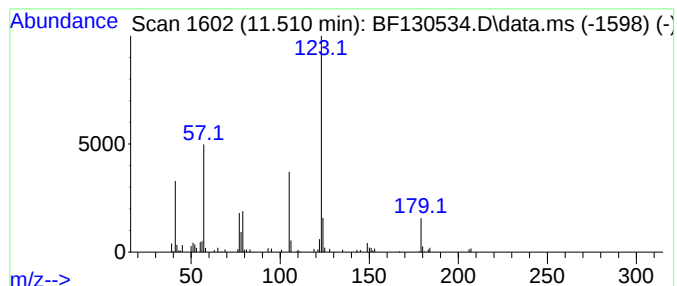
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown11.510 Concentration Rank 3

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 11.510 | 2.42 ng | 57109 | Phenanthrene-d10 | 11.145 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4-Pyrimidinamine, 2,6-dimethyl-     | 123 | C6H9N3   | 000461-98-3  | 47   |
| 2    |    |   | Benzoic acid, tridecyl ester        | 304 | C20H32O2 | 1010340-22-6 | 45   |
| 3    |    |   | Niacin                              | 123 | C6H5NO2  | 000059-67-6  | 45   |
| 4    |    |   | Cyclopropanecarboxylic acid, 2,2... | 300 | C19H24O3 | 023031-36-9  | 42   |
| 5    |    |   | Dihydroxyphenylalanine              | 197 | C9H11NO4 | 000063-84-3  | 40   |



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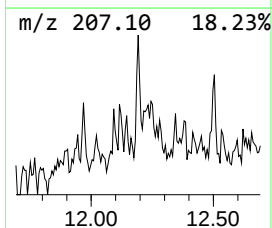
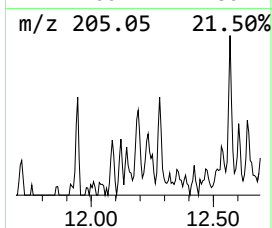
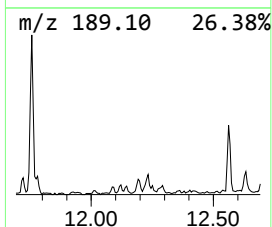
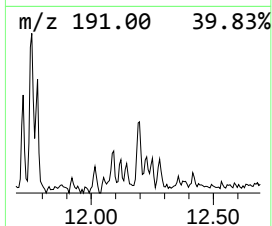
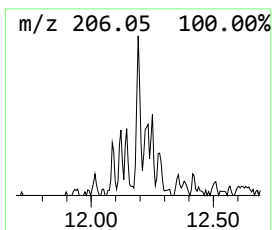
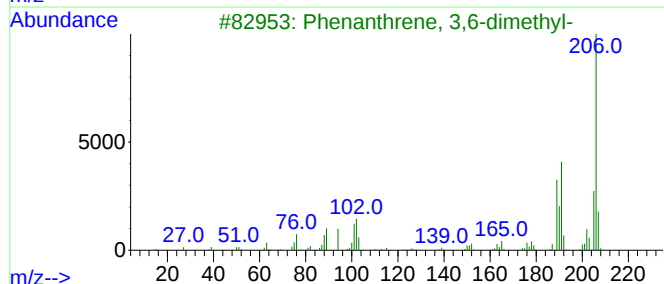
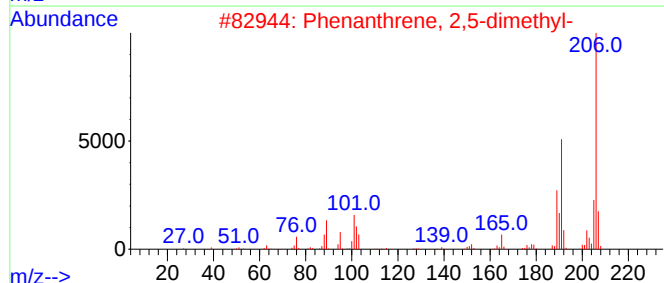
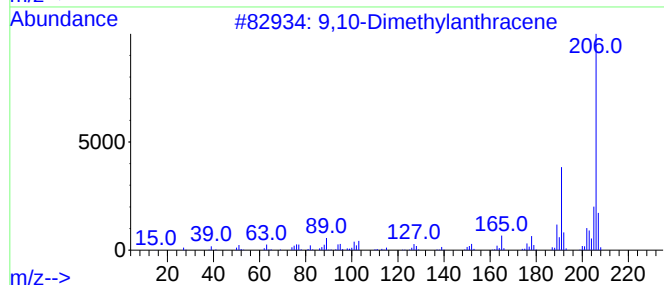
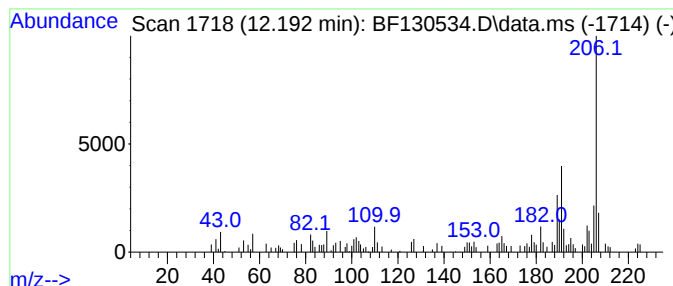
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 9,10-Dimethylantracene Concentration Rank 4

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.192 | 2.00 ng | 47143 | Phenanthrene-d10 | 11.145 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1  | 94   |
| 2    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6  | 93   |
| 3    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6  | 91   |
| 4    |    |   | 3,4-Dimethylphenanthrene    | 206 | C16H14  | 1000452-24-5 | 90   |
| 5    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0  | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100522\  
Data File : BF130534.D  
Acq On : 05 Oct 2022 17:35  
Operator : CG\JU  
Sample : N4960-05 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PAT-03-100322

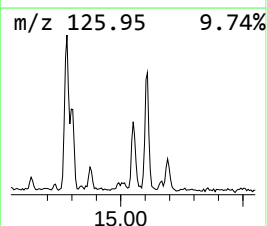
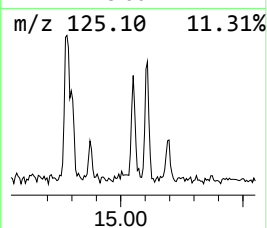
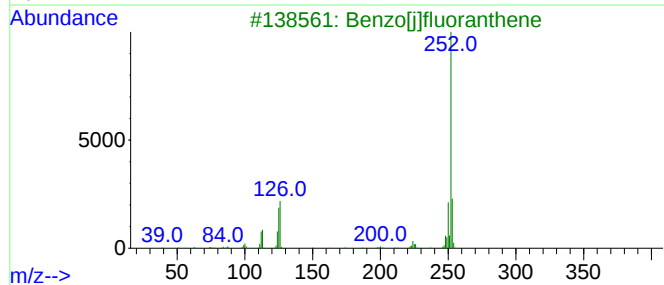
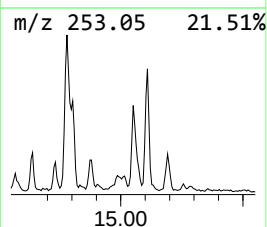
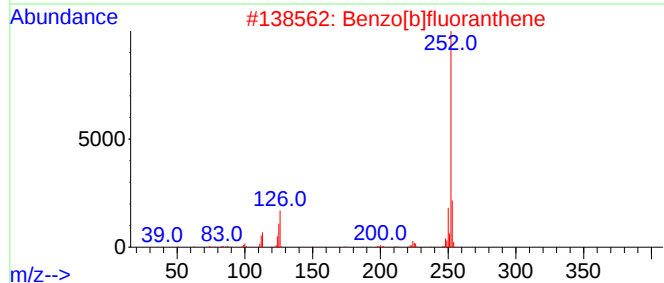
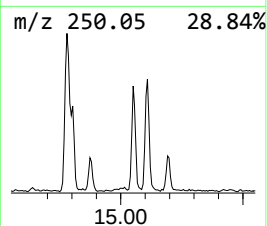
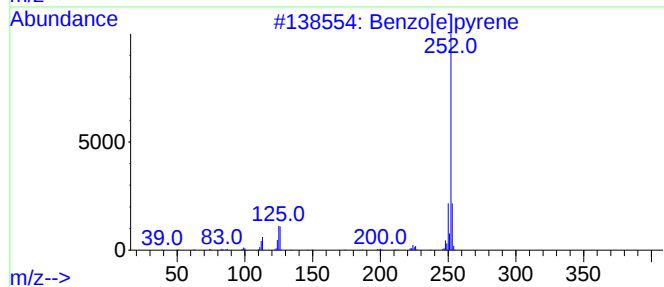
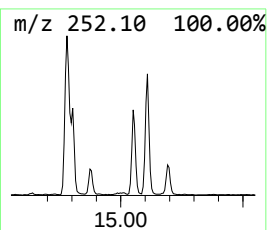
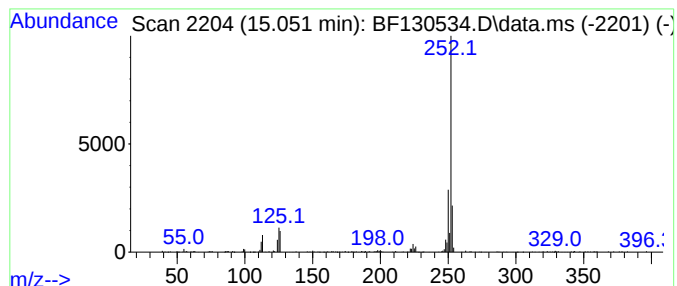
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Benzo[e]pyrene Concentration Rank 1

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.051 | 9.80 ng | 189988 | Perylene-d12     | 15.168 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 94   |
| 3    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 93   |
| 4    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100522\  
Data File : BF130534.D  
Acq On : 05 Oct 2022 17:35  
Operator : CG\JU  
Sample : N4960-05 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PAT-03-100322

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091422.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 |
| 2-Pentanone, 4-... | 4.792  | 2.9     | ng    | 63137    | 1                     | 6.633  | 431597 | 20.0 |
| unknown11.510      | 11.510 | 2.4     | ng    | 57109    | 4                     | 11.145 | 471130 | 20.0 |
| 9,10-Dimethylan... | 12.192 | 2.0     | ng    | 47143    | 4                     | 11.145 | 471130 | 20.0 |
| Benzo[e]pyrene     | 15.051 | 9.8     | ng    | 189988   | 6                     | 15.168 | 387878 | 20.0 |