LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-071621

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-BF070721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF124656.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.504 | 578 | 581 | 584 | rBB | 23891 | 20506 | 12.12% | 1.747% |
| 2 | 6.516 | 750 | 753 | 755 | rBB | 27568 | 20380 | 12.04% | 1.737% |
| 3 | 6.904 | 816 | 819 | 822 | rBB | 48799 | 35743 | 21.12% | 3.046% |
| 4 | 7.457 | 911 | 913 | 916 | rBB | 14768 | 12344 | 7.29% | 1.052% |
| 5 | 8.186 | 1034 | 1037 | 1040 | rBV | 54266 | 44583 | 26.34% | 3.799% |
| 6 | 9.263 | 1217 | 1220 | 1223 | rBB | 30906 | 21387 | 12.64% | 1.822% |
| 7 | 9.804 | 1310 | 1312 | 1315 | rBB | 2432 | 1808 | 1.07% | 0.154% |
| 8 | 9.945 | 1333 | 1336 | 1339 | rBB | 53510 | 39854 | 23.55% | 3.396% |
| 9 | 9.980 | 1339 | 1342 | 1344 | rBB | 9228 | 7697 | 4.55% | 0.656% |
| 10 | 10.145 | 1368 | 1370 | 1373 | rBB | 4230 | 3489 | 2.06% | 0.297% |
| 11 | 10.492 | 1426 | 1429 | 1432 | rBB | 12245 | 8852 | 5.23% | 0.754% |
| 12 | 10.727 | 1467 | 1469 | 1473 | rBB | 13147 | 9529 | 5.63% | 0.812% |
| 13 | 11.327 | 1569 | 1571 | 1574 | rBB | 2765 | 1929 | 1.14% | 0.164% |
| 14 | 11.433 | 1586 | 1589 | 1591 | rBV | 42529 | 34317 | 20.28% | 2.924% |
| 15 | 11.457 | 1591 | 1593 | 1597 | rVB | 90510 | 76619 | 45.28% | 6.528% |
| 16 | 11.510 | 1599 | 1602 | 1605 | rBB | 32525 | 24097 | 14.24% | 2.053% |
| 17 | 11.933 | 1672 | 1674 | 1677 | rBV | 8159 | 6990 | 4.13% | 0.596% |
| 18 | 11.963 | 1677 | 1679 | 1682 | rVB | 12739 | 8821 | 5.21% | 0.752% |
| 19 | 12.010 | 1685 | 1687 | 1690 | rBB | 6309 | 4094 | 2.42% | 0.349% |
| 20 | 12.051 | 1690 | 1694 | 1696 | rBV2 | 18546 | 18459 | 10.91% | 1.573% |
| 21 | 12.227 | 1722 | 1724 | 1727 | rBV | 5167 | 3987 | 2.36% | 0.340% |
| 22 | 12.486 | 1765 | 1768 | 1770 | rBB | 3272 | 2801 | 1.66% | 0.239% |
| 23 | 12.527 | 1770 | 1775 | 1777 | rBV | 1948 | 2548 | 1.51% | 0.217% |
| 24 | 12.568 | 1780 | 1782 | 1785 | rBB | 3312 | 2421 | 1.43% | 0.206% |
| 25 | 12.651 | 1792 | 1796 | 1799 | rBV | 136606 | 130212 | 76.94% | 11.095% |
| 26 | 12.798 | 1818 | 1821 | 1826 | rBB | 1882 | 2469 | 1.46% | 0.210% |
| 27 | 12.886 | 1827 | 1836 | 1841 | rBV3 | 127513 | 169228 | 100.00% | 14.419% |
| 28 | 12.927 | 1841 | 1843 | 1847 | rVB | 3129 | 3480 | 2.06% | 0.297% |
| 29 | 12.998 | 1852 | 1855 | 1856 | rBV | 4891 | 4348 | 2.57% | 0.370% |
| 30 | 13.015 | 1856 | 1858 | 1861 | rVB | 21108 | 13183 | 7.79% | 1.123% |
| 31 | 13.098 | 1867 | 1872 | 1875 | rBB2 | 5517 | 7784 | 4.60% | 0.663% |
| 32 | 13.180 | 1884 | 1886 | 1887 | rBV | 3581 | 3511 | 2.07% | 0.299% |
| 33 | 13.204 | 1887 | 1890 | 1895 | rVB | 15681 | 14970 | 8.85% | 1.276% |
| 34 | 13.274 | 1899 | 1902 | 1904 | rBB | 10218 | 8770 | 5.18% | 0.747% |
| 35 | 13.310 | 1904 | 1908 | 1911 | rBV2 | 8457 | 8775 | 5.19% | 0.748% |
| 36 | 13.404 | 1921 | 1924 | 1926 | rBB | 4519 | 4046 | 2.39% | 0.345% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-071621

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-BF070721.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.433 | 1926 | 1929 | 1935 | rBB2 | 4339 | 5297 | 3.13% | 0.451% |
| 38 | 13.586 | 1952 | 1955 | 1957 | rBV | 1555 | 1891 | 1.12% | 0.161% |
| 39 | 13.710 | 1968 | 1976 | 1982 | rBV2 | 6004 | 8314 | 4.91% | 0.708% |
| 40 | 13.827 | 1988 | 1996 | 1998 | rBV3 | 4101 | 5680 | 3.36% | 0.484% |
| 41 | 13.851 | 1998 | 2000 | 2002 | rVV | 6642 | 5654 | 3.34% | 0.482% |
| 42 | 13.874 | 2002 | 2004 | 2008 | rVV2 | 6987 | 8168 | 4.83% | 0.696% |
| 43 | 13.915 | 2008 | 2011 | 2017 | rVB5 | 4878 | 6238 | 3.69% | 0.532% |
| 44 | 14.068 | 2033 | 2037 | 2041 | rBV2 | 57048 | 77286 | 45.67% | 6.585% |
| 45 | 14.104 | 2041 | 2043 | 2048 | rVB | 40888 | 31890 | 18.84% | 2.717% |
| 46 | 14.180 | 2054 | 2056 | 2060 | rVB2 | 11070 | 9650 | 5.70% | 0.822% |
| 47 | 14.262 | 2066 | 2070 | 2072 | rVV | 2530 | 2282 | 1.35% | 0.194% |
| 48 | 14.292 | 2072 | 2075 | 2079 | rVB3 | 3166 | 4105 | 2.43% | 0.350% |
| 49 | 14.327 | 2079 | 2081 | 2083 | rBV2 | 2280 | 1969 | 1.16% | 0.168% |
| 50 | 14.457 | 2100 | 2103 | 2107 | rVB2 | 6596 | 8047 | 4.76% | 0.686% |
| 51 | 14.492 | 2107 | 2109 | 2111 | rBV | 3518 | 2918 | 1.72% | 0.249% |
| 52 | 14.539 | 2114 | 2117 | 2119 | rBV3 | 2011 | 2221 | 1.31% | 0.189% |
| 53 | 14.557 | 2119 | 2120 | 2122 | rVB2 | 3885 | 1993 | 1.18% | 0.170% |
| 54 | 14.586 | 2122 | 2125 | 2127 | rBV | 3652 | 3538 | 2.09% | 0.301% |
| 55 | 14.604 | 2127 | 2128 | 2133 | rVB2 | 4070 | 4147 | 2.45% | 0.353% |
| 56 | 14.851 | 2167 | 2170 | 2173 | rBV2 | 2048 | 1948 | 1.15% | 0.166% |
| 57 | 14.968 | 2185 | 2190 | 2191 | rBV2 | 1956 | 2008 | 1.19% | 0.171% |
| 58 | 15.068 | 2205 | 2207 | 2210 | rVB3 | 1749 | 1863 | 1.10% | 0.159% |
| 59 | 15.127 | 2213 | 2217 | 2220 | rVV | 26740 | 40899 | 24.17% | 3.485% |
| 60 | 15.151 | 2220 | 2221 | 2225 | rVB | 14522 | 12736 | 7.53% | 1.085% |
| 61 | 15.239 | 2232 | 2236 | 2240 | rVB | 5503 | 7296 | 4.31% | 0.622% |
| 62 | 15.392 | 2257 | 2262 | 2263 | rBV2 | 2452 | 3116 | 1.84% | 0.266% |
| 63 | 15.439 | 2265 | 2270 | 2277 | rVV | 17656 | 22201 | 13.12% | 1.892% |
| 64 | 15.504 | 2277 | 2281 | 2286 | rVV | 25656 | 32601 | 19.26% | 2.778% |
| 65 | 15.568 | 2286 | 2292 | 2294 | rVV | 16326 | 20367 | 12.04% | 1.735% |
| 66 | 15.598 | 2294 | 2297 | 2303 | rVB2 | 8036 | 10716 | 6.33% | 0.913% |
| 67 | 15.733 | 2315 | 2320 | 2323 | rBV4 | 1543 | 2552 | 1.51% | 0.217% |
| 68 | 16.292 | 2412 | 2415 | 2419 | rBV3 | 1835 | 2489 | 1.47% | 0.212% |
| 69 | 16.733 | 2489 | 2490 | 2495 | rVB3 | 1262 | 1735 | 1.03% | 0.148% |
| 70 | 16.868 | 2511 | 2513 | 2515 | rBV2 | 1797 | 2126 | 1.26% | 0.181% |
| 71 | 17.062 | 2540 | 2546 | 2552 | rVB2 | 9683 | 17557 | 10.37% | 1.496% |
| 72 | 17.121 | 2552 | 2556 | 2559 | rBV2 | 1309 | 1757 | 1.04% | 0.150% |
| 73 | 17.156 | 2559 | 2562 | 2564 | rBV3 | 1274 | 1773 | 1.05% | 0.151% |
| 74 | 17.521 | 2618 | 2624 | 2630 | rBV2 | 6236 | 12556 | 7.42% | 1.070% |

Sum of corrected areas: 1173615

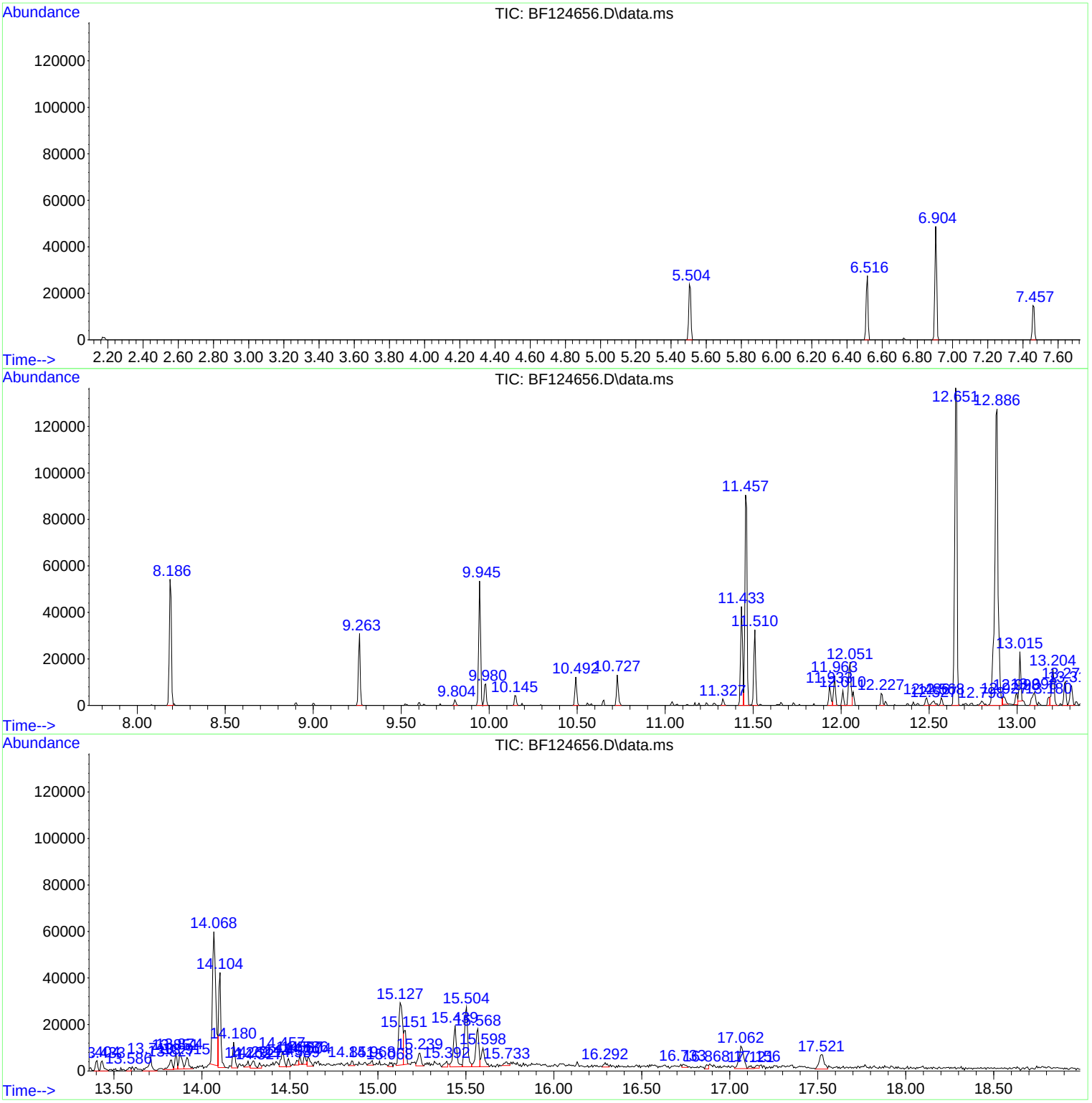
**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

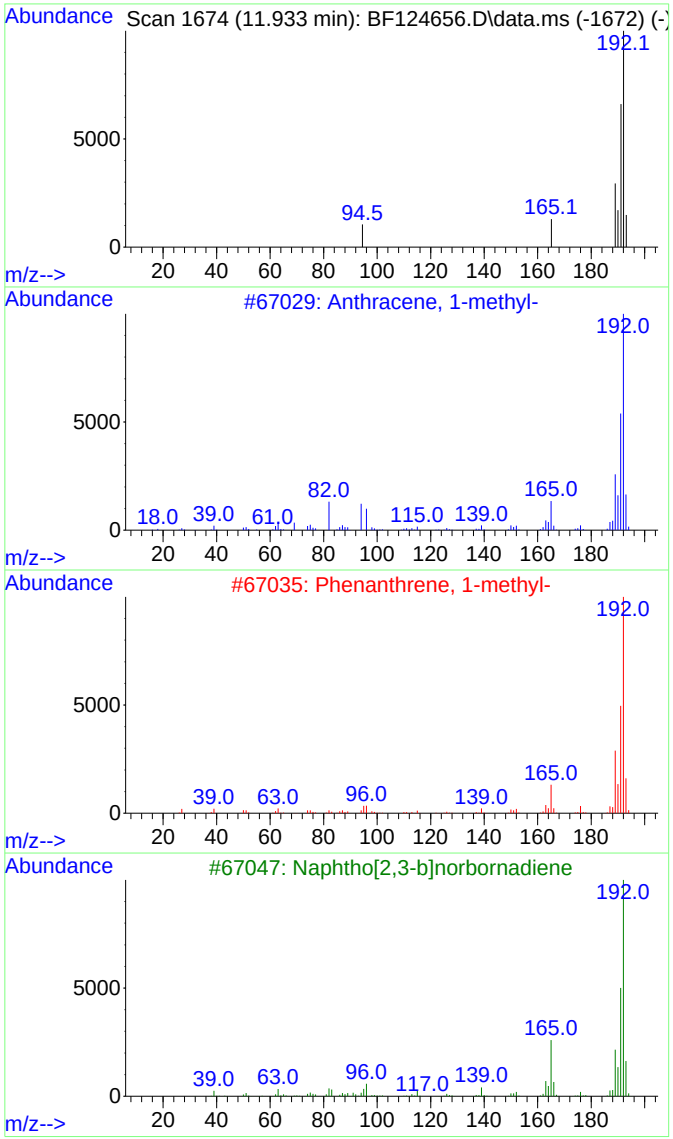
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

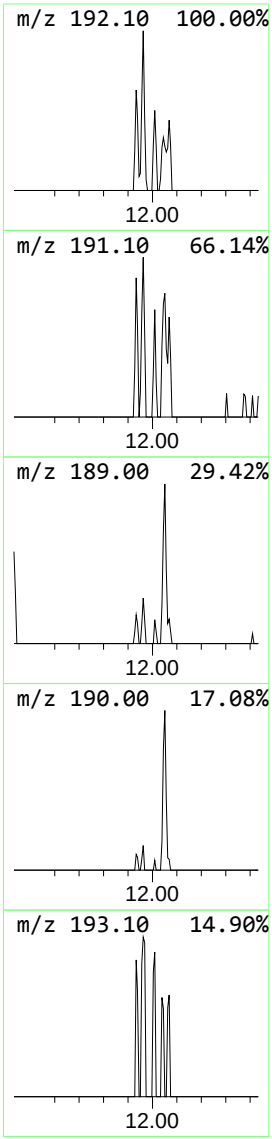
**********

Peak Number 1 Anthracene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.933 | 4.07 ng | 6990 | Phenanthrene-d10 | 11.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 80 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 80 |
| 3 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 80 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 80 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

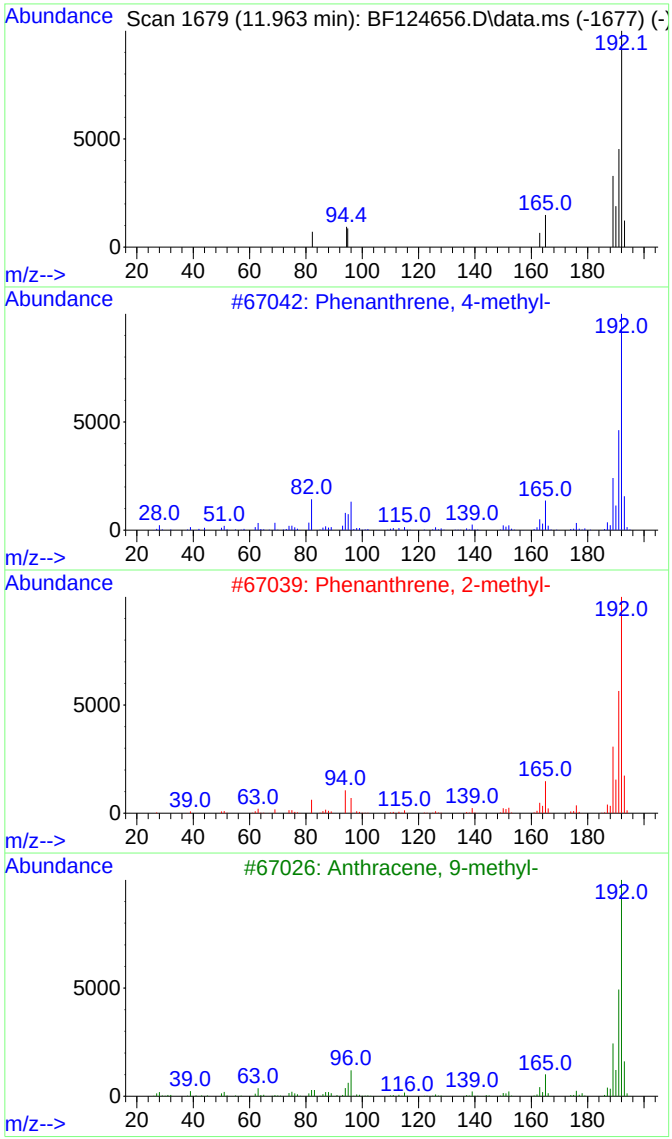
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

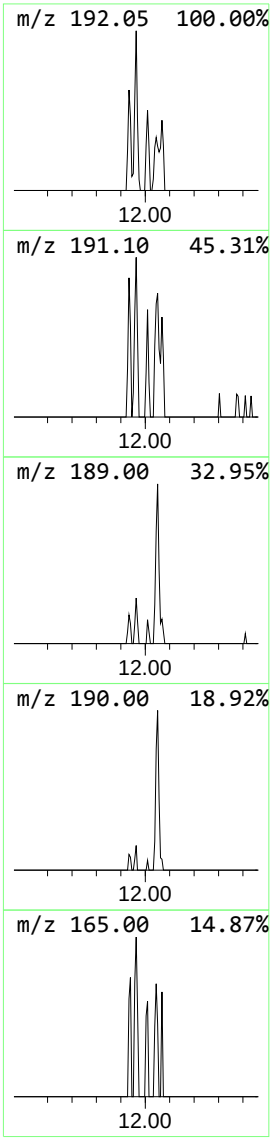
**********

Peak Number 2 Phenanthrene, 4-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.963 | 5.14 ng | 8821 | Phenanthrene-d10 | 11.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 83 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 80 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 80 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 80 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

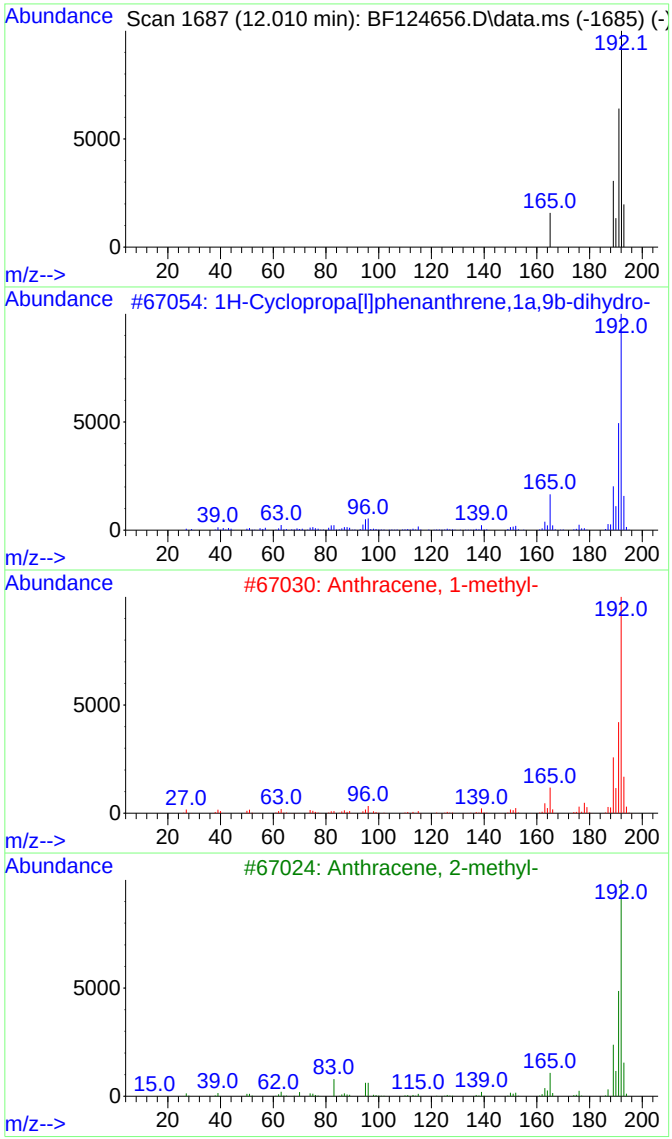
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

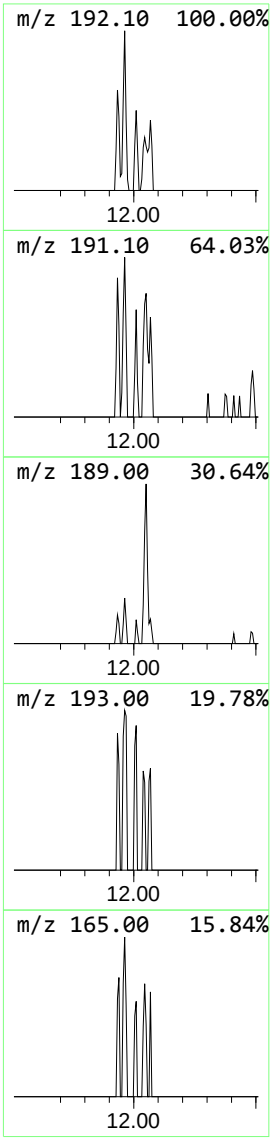
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.010 | 2.39 ng | 4094 | Phenanthrene-d10 | 11.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 80 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 80 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 80 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 80 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

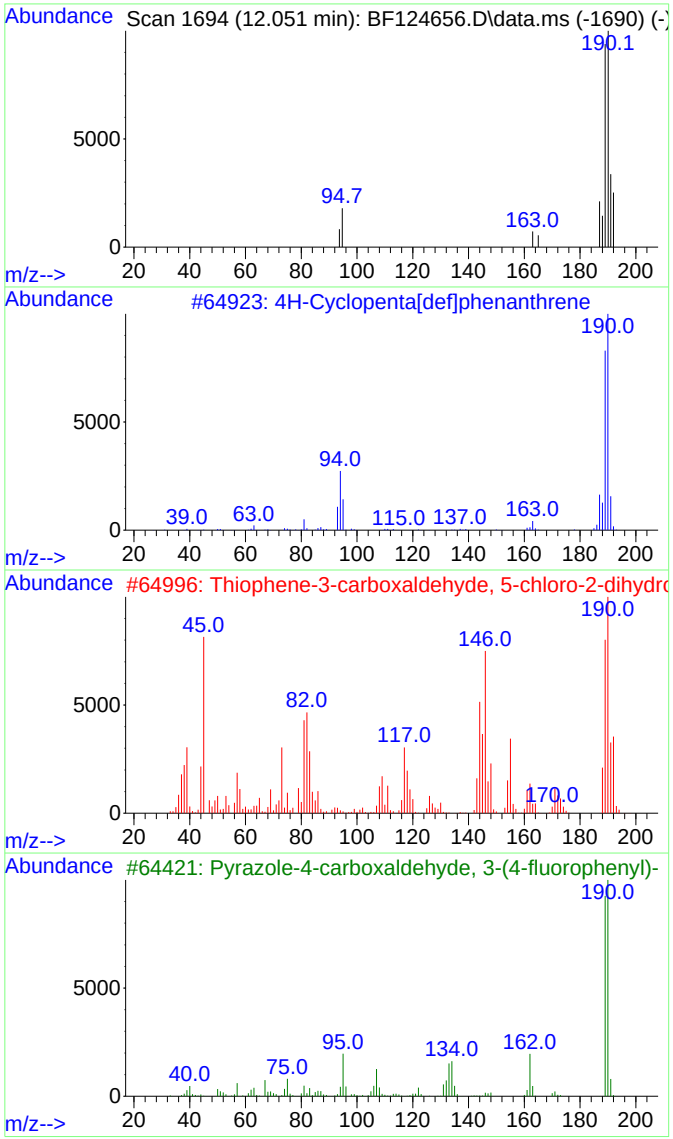
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

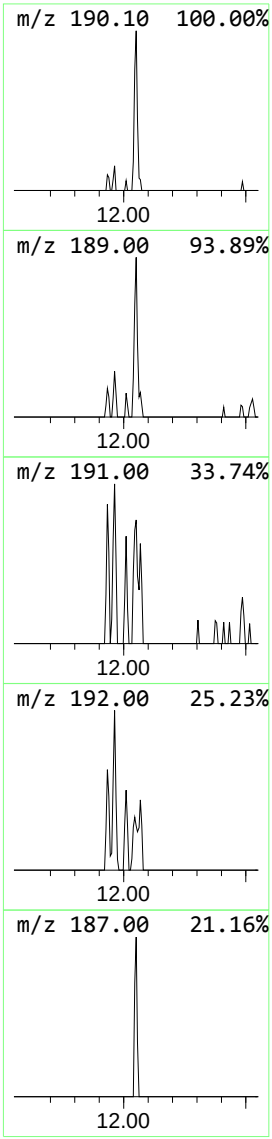
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.051 | 10.76 ng | 18459 | Phenanthrene-d10 | 11.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 80 |
| 2 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 58 |
| 3 | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O | 306936-57-2 | 53 |
| 4 | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4 | 004923-55-1 | 32 |
| 5 | 4-Ethylthio-5-chloro-pyrimidin-2... | 190 | C6H7ClN2OS | 106146-84-3 | 27 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

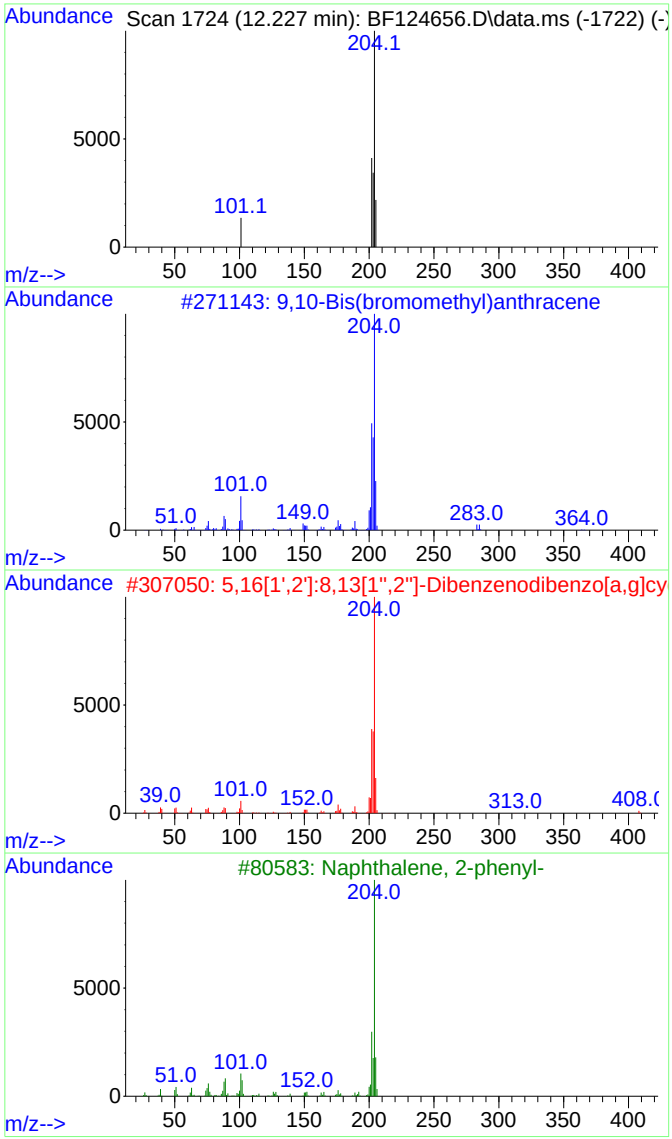
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

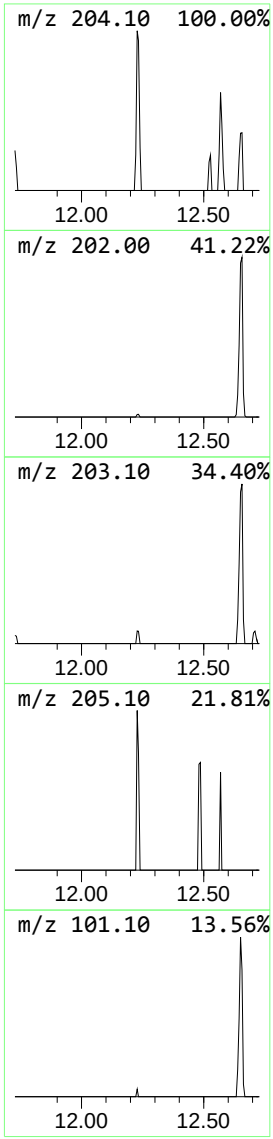
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 9,10-Bis(bromomethyl)anthra... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.227 | 2.32 ng | 3987 | Phenanthrene-d10 | 11.433 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 83 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 64 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 9 |
| 4 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 9 |
| 5 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

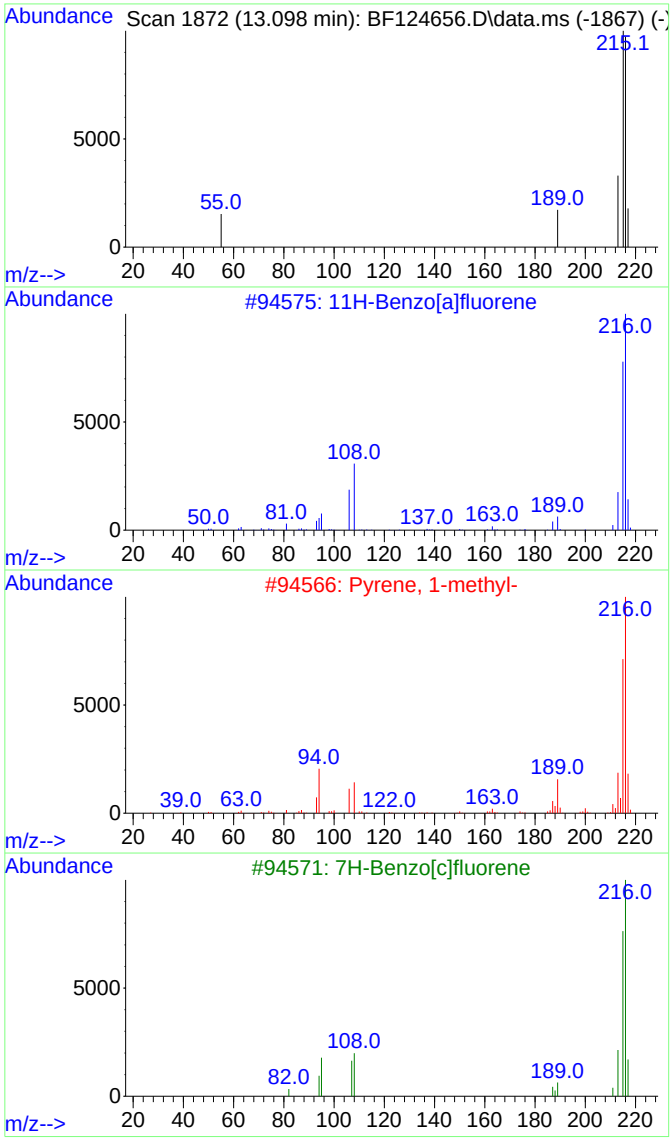
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

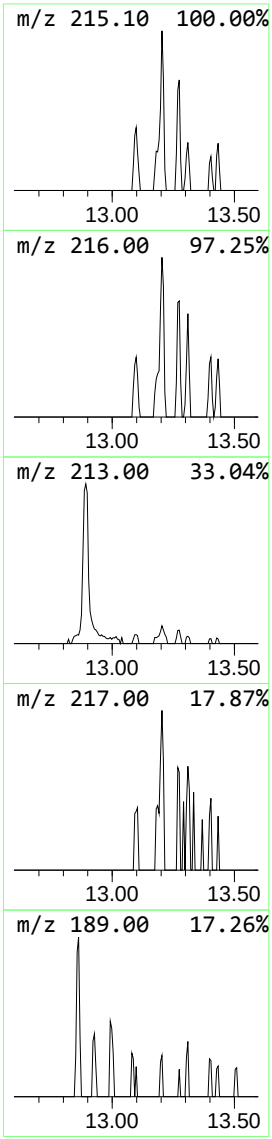
**********

Peak Number 6 11H-Benzo[a]fluorene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.098 | 2.01 ng | 7784 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 78 |
| 3 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 64 |
| 4 | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 64 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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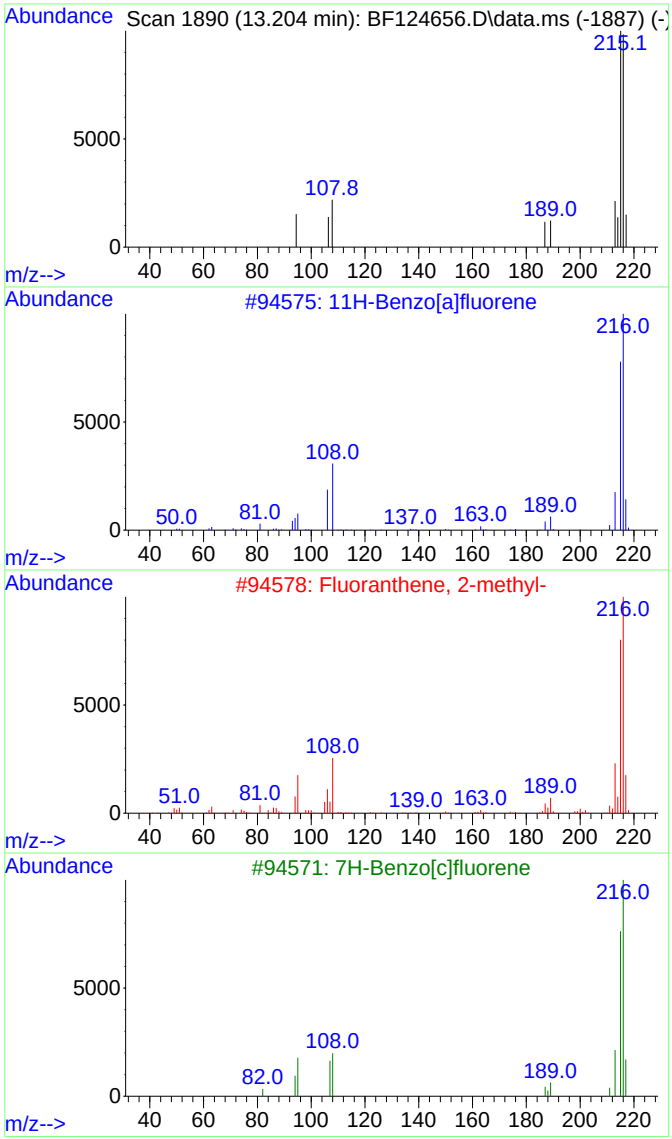
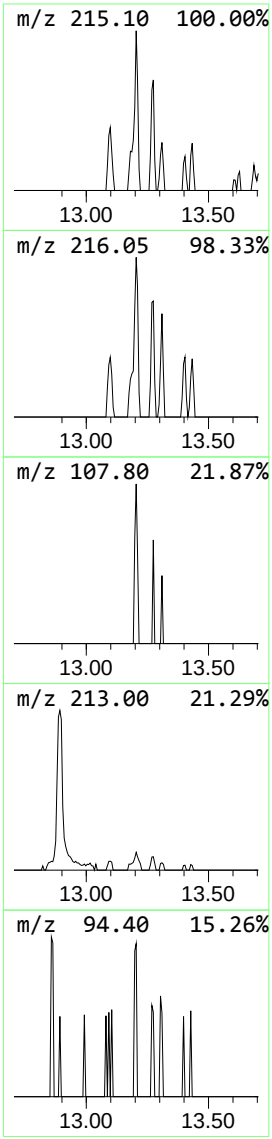
Peak Number 7 Fluoranthene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.204 | 3.87 ng | 14970 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 3 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 80 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 72 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |



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Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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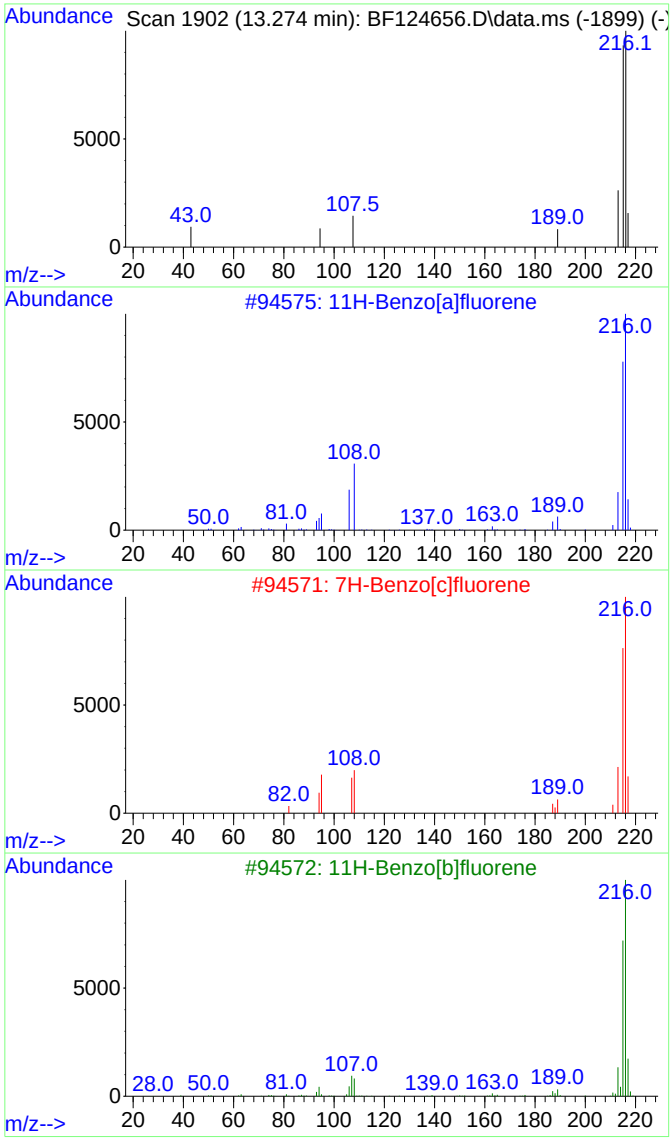
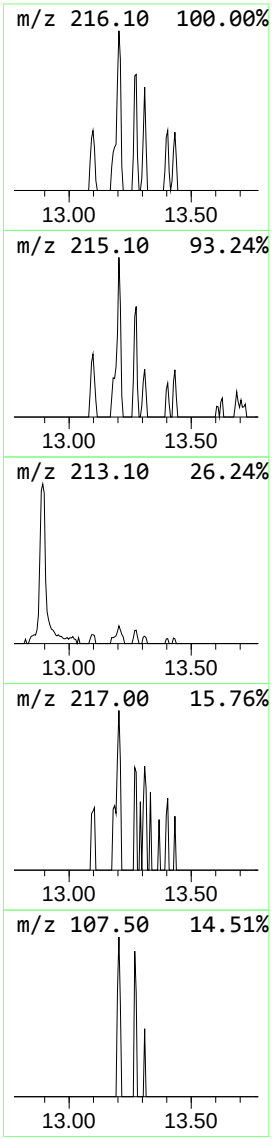
Peak Number 8 7H-Benzo[c]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.274 | 2.27 ng | 8770 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 2 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 86 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 83 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 74 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 72 |



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Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

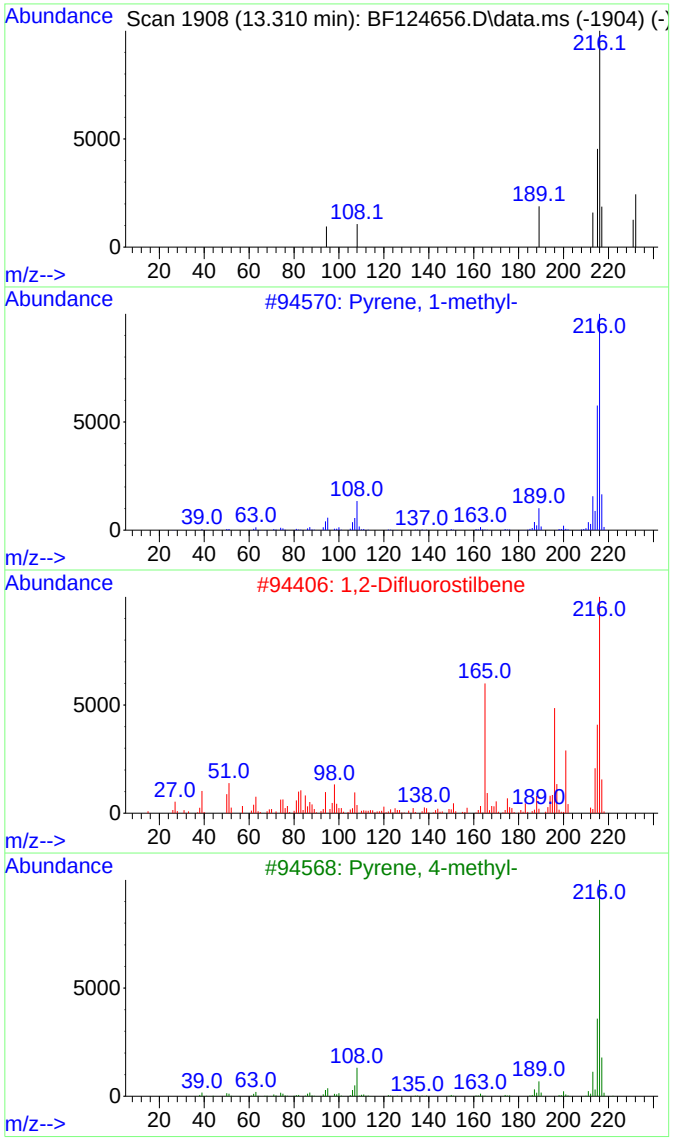
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

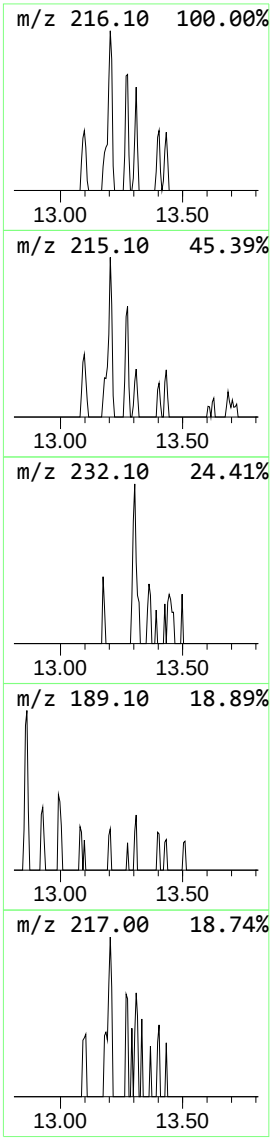
**********

Peak Number 9 Pyrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.310 | 2.27 ng | 8775 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 72 |
| 2 | 1,2-Difluorostilbene | 216 | C14H10F2 | 000643-76-5 | 64 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 64 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 64 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |



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Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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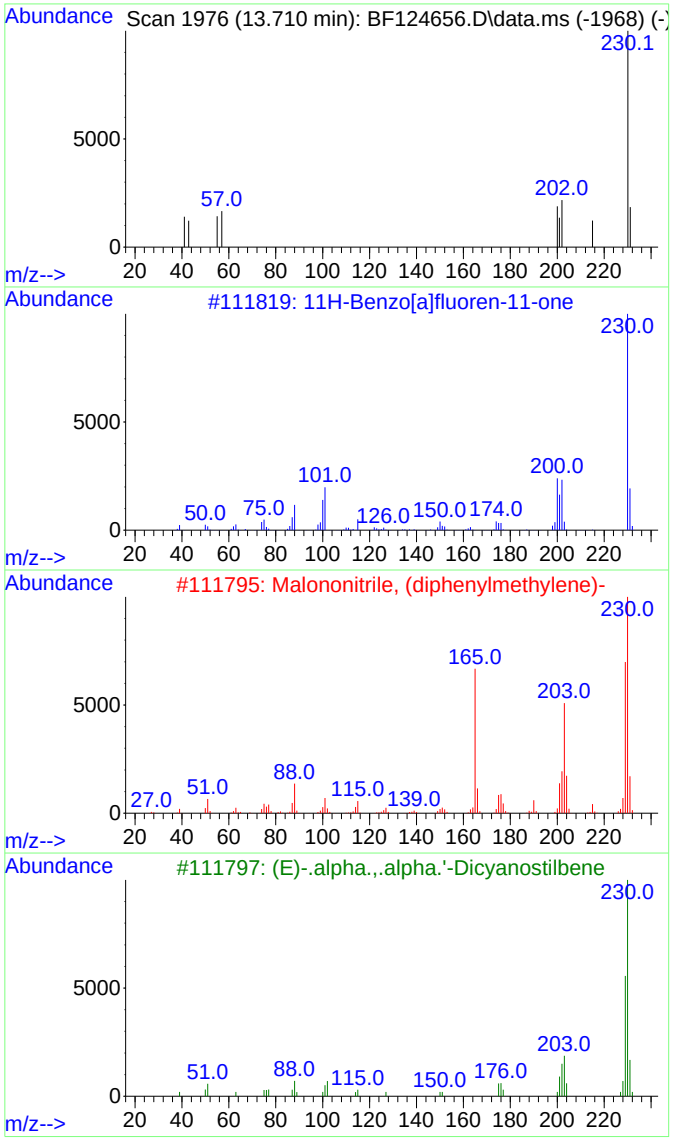
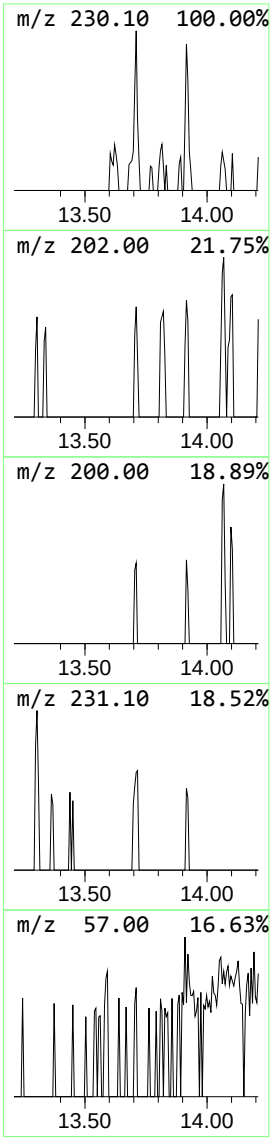
Peak Number 10 11H-Benzo[a]fluoren-11-one Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.710 | 2.15 ng | 8314 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 86 |
| 2 | Malononitrile, (diphenylmethylene)- | 230 | C16H10N2 | 010394-96-4 | 78 |
| 3 | (E)-.alpha.,.alpha.'-Dicyanostil... | 230 | C16H10N2 | 002450-55-7 | 72 |
| 4 | 4,4'-Stilbenedicarbonitrile | 230 | C16H10N2 | 006292-62-2 | 56 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 45 |



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Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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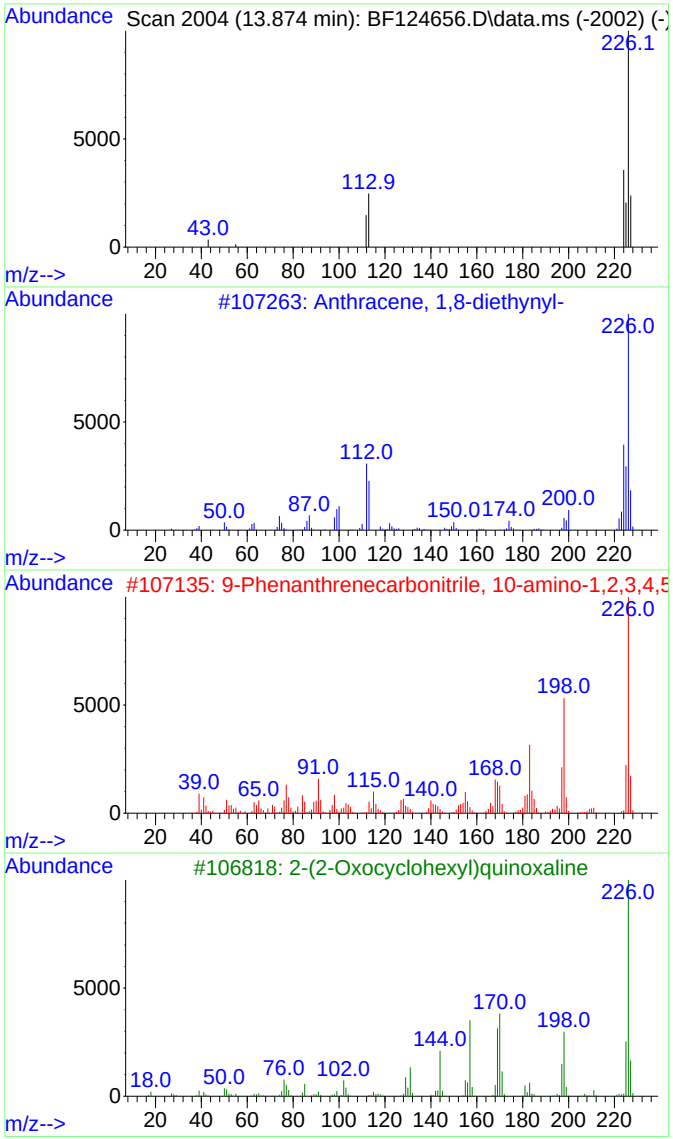
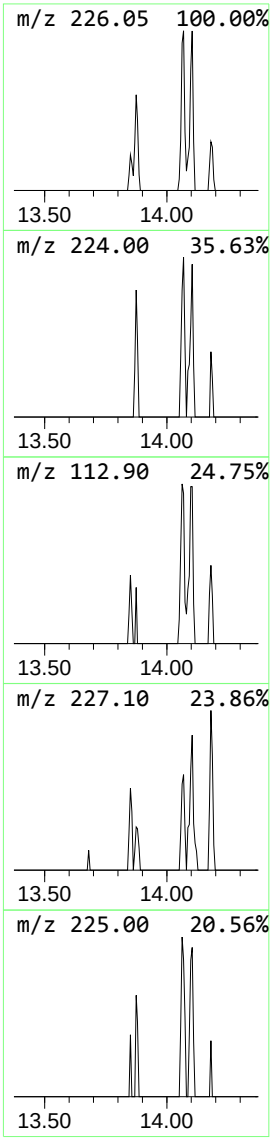
Peak Number 11 unknown13.874 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.874 | 2.11 ng | 8168 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1,8-diethynyl- | 226 | C18H10 | 078053-58-4 | 9 |
| 2 | 9-Phenanthrenecarbonitrile, 10-a... | 226 | C15H18N2 | 1010338-20-4 | 9 |
| 3 | 2-(2-Oxocyclohexyl)quinoxaline | 226 | C14H14N2O | 019836-17-0 | 5 |
| 4 | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 5 |
| 5 | 2,4-Dimethyl-pyrrolo[3,4-c]quino... | 226 | C13H10N2O2 | 1000300-02-0 | 5 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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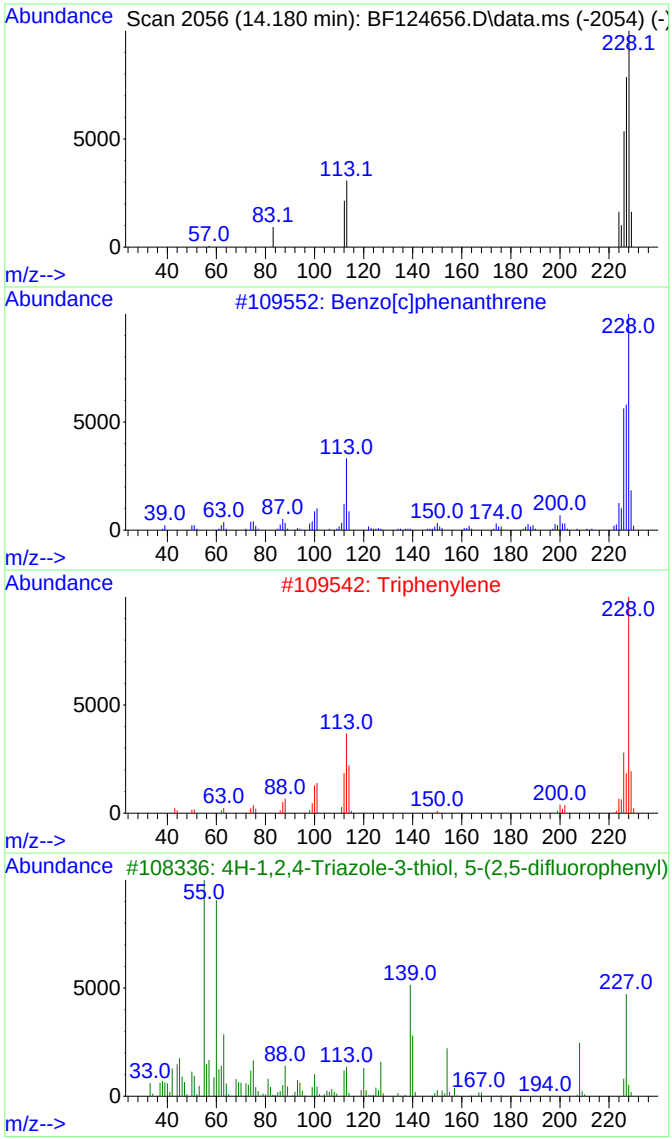
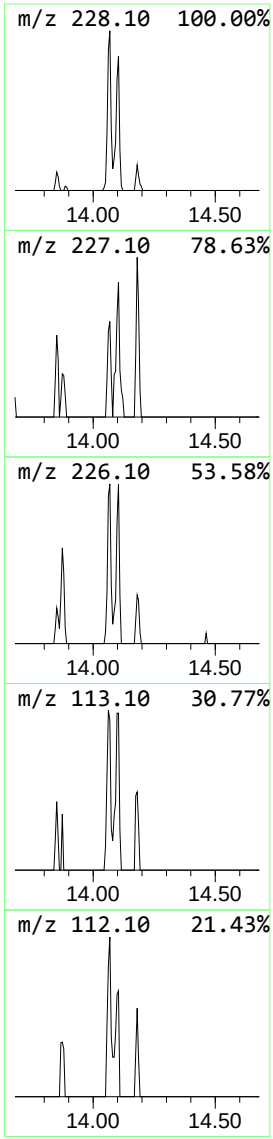
Peak Number 12 unknown14.180 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.180 | 2.50 ng | 9650 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 46 |
| 2 | Triphenylene | 228 | C18H12 | 000217-59-4 | 38 |
| 3 | 4H-1,2,4-Triazole-3-thiol, 5-(2,... | 227 | C9H7F2N3S | 1000362-73-2 | 9 |
| 4 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 9 |
| 5 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 9 |



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Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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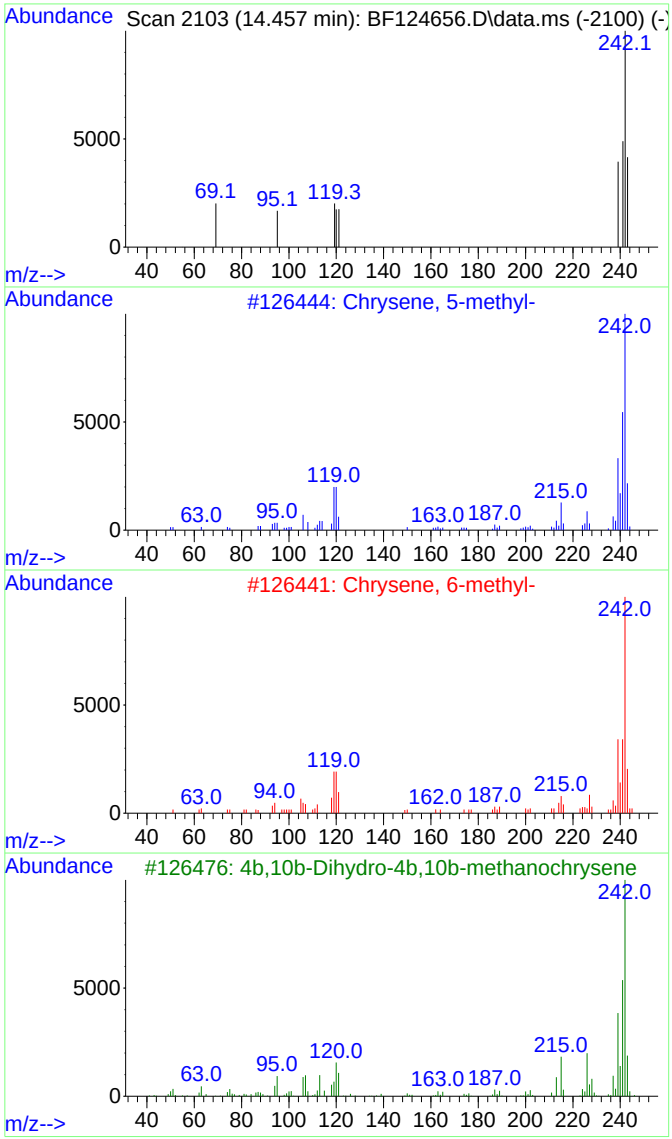
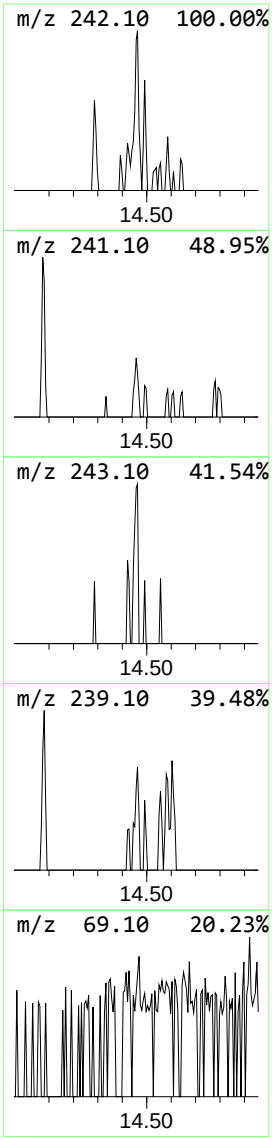
Peak Number 13 Chrysene, 5-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.457 | 2.08 ng | 8047 | Chrysene-d12 | 14.074 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 58 |
| 2 | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 47 |
| 3 | 4b,10b-Dihydro-4b,10b-methanochr... | 242 | C19H14 | 071949-03-6 | 47 |
| 4 | Chrysene, 4-methyl- | 242 | C19H14 | 003351-30-2 | 9 |
| 5 | 4-([(E)-(2-Nitrophenyl)methylide... | 242 | C13H10N2O3 | 005348-28-7 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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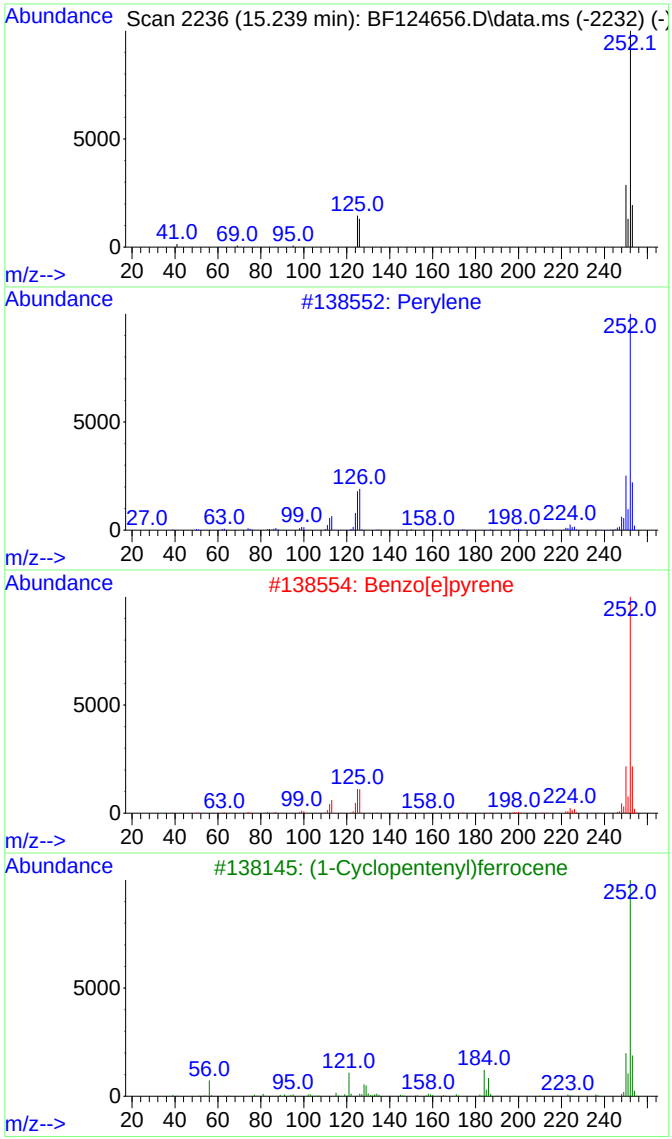
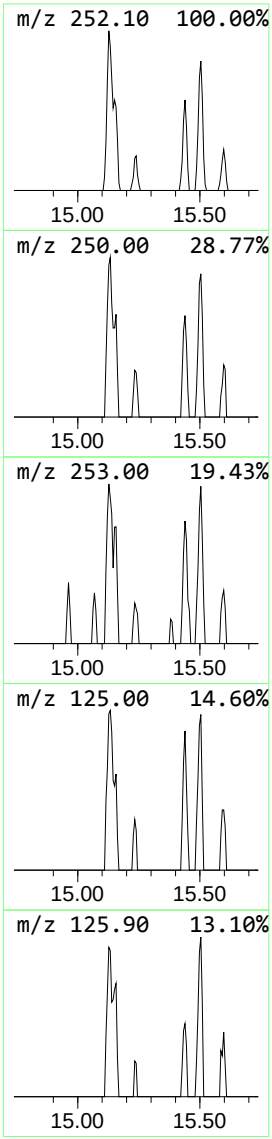
Peak Number 14 Perylene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.239 | 7.16 ng | 7296 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 80 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 72 |
| 3 | (1-Cyclopentenyl)ferrocene | 252 | C15H16Fe | 012260-67-2 | 72 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 72 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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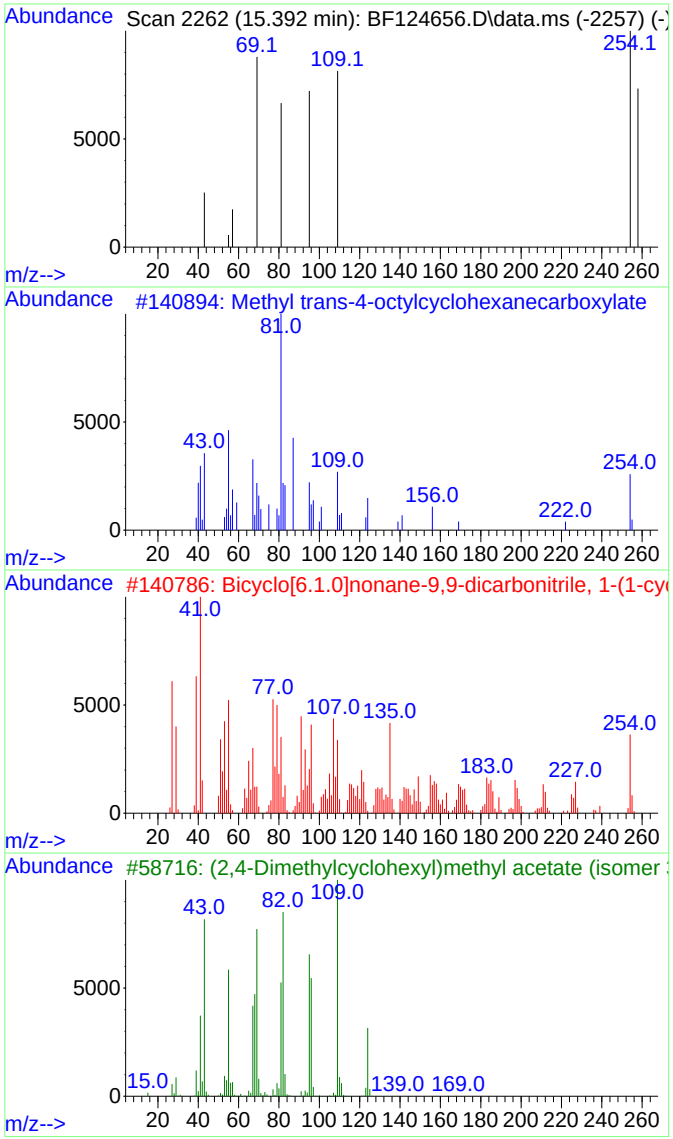
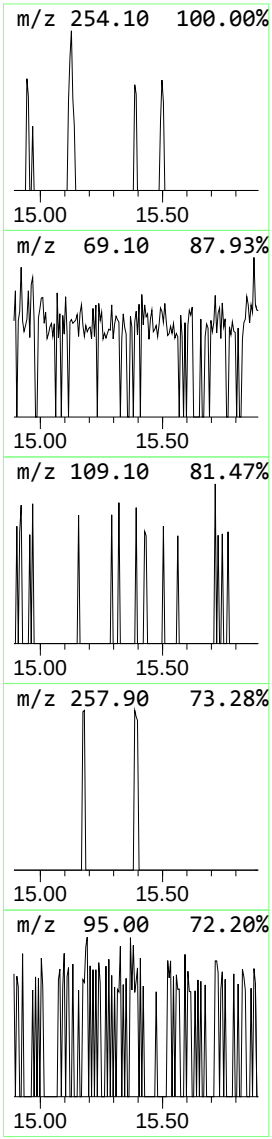
Peak Number 15 unknown15.392 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.392 | 3.06 ng | 3116 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl trans-4-octylcyclohexanec... | 254 | C16H30O2 | 080361-87-1 | 9 |
| 2 | Bicyclo[6.1.0]nonane-9,9-dicarbo... | 254 | C16H18N2O | 1000163-43-4 | 9 |
| 3 | (2,4-Dimethylcyclohexyl)methyl a... | 184 | C11H20O2 | 1000497-97-0 | 9 |
| 4 | (2Z,4E)-3,7,11-Trimethyl-2,4,10-... | 206 | C15H26 | 172549-29-0 | 9 |
| 5 | (-)-Isolongifolol, methyl ether | 236 | C16H28O | 1000333-80-8 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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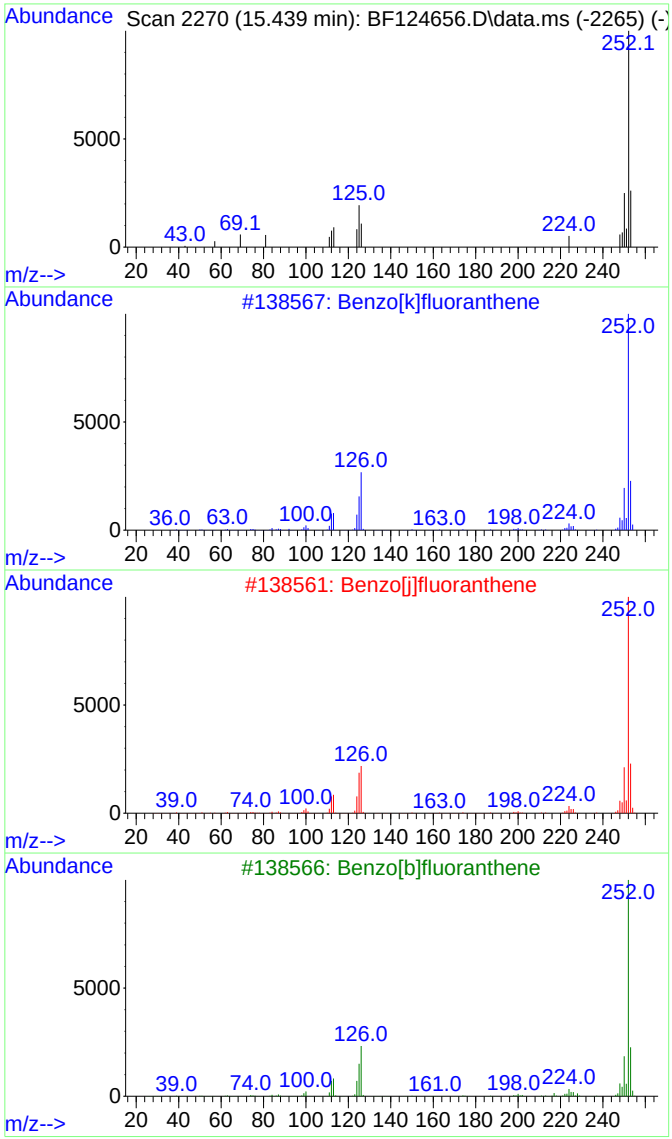
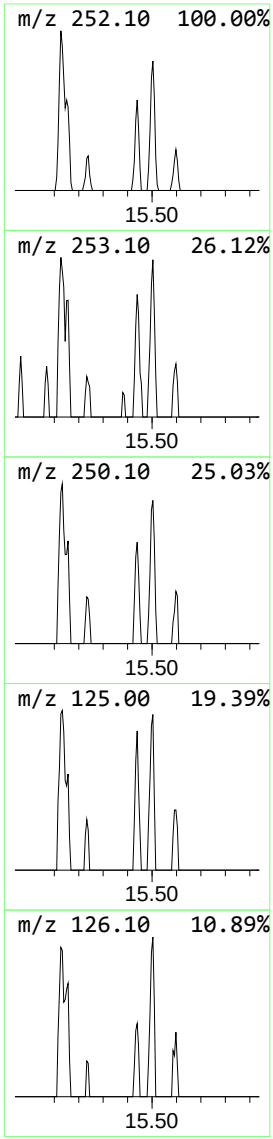
Peak Number 16 Benzo[j]fluoranthene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.439 | 21.80 ng | 22201 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 81 |
| 2 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 81 |
| 3 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 81 |
| 4 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 81 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 74 |



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Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.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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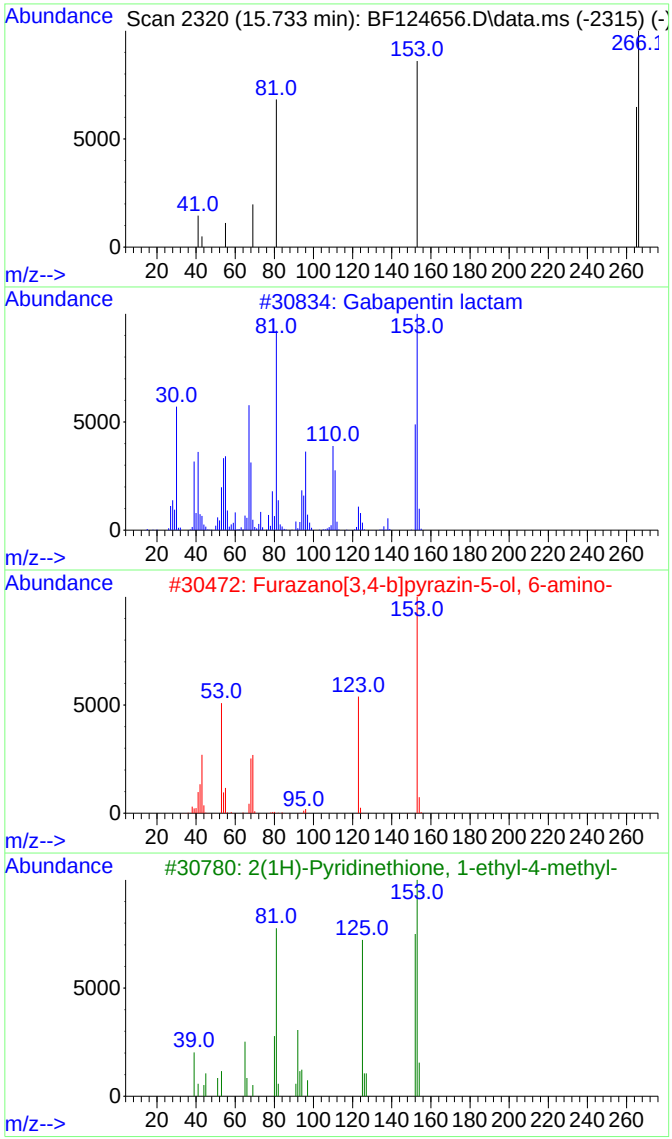
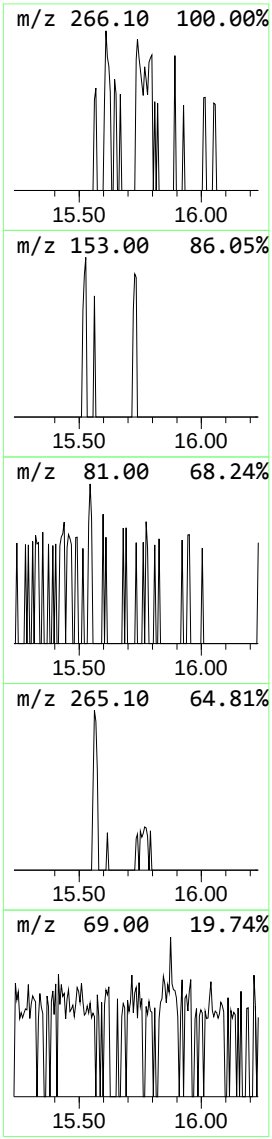
Peak Number 17 unknown15.733 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.733 | 2.51 ng | 2552 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Gabapentin lactam | 153 | C9H15NO | 064744-50-9 | 5 |
| 2 | Furazano[3,4-b]pyrazin-5-ol, 6-a... | 153 | C4H3N5O2 | 211919-08-3 | 5 |
| 3 | 2(1H)-Pyridinethione, 1-ethyl-4-... | 153 | C8H11NS | 019006-72-5 | 5 |
| 4 | 4-Picoline, 2-(ethylthio)- | 153 | C8H11NS | 019006-78-1 | 5 |
| 5 | 3-Formyl-1-methyl-2(1H)-pyridine... | 153 | C7H7NOS | 1000306-47-3 | 4 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

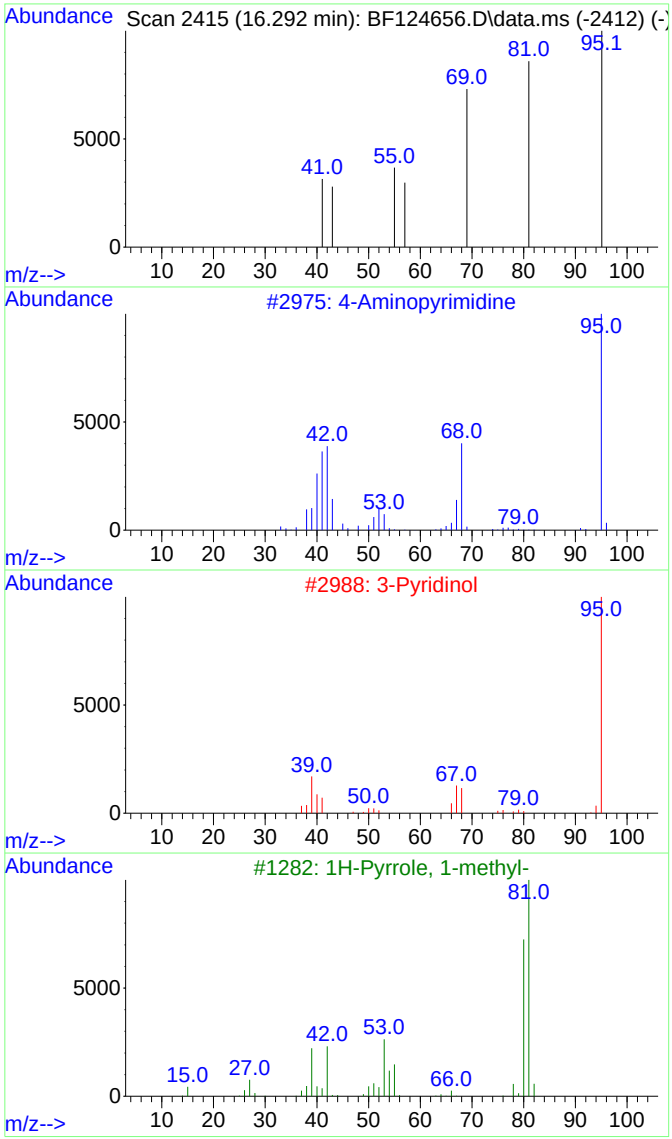
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

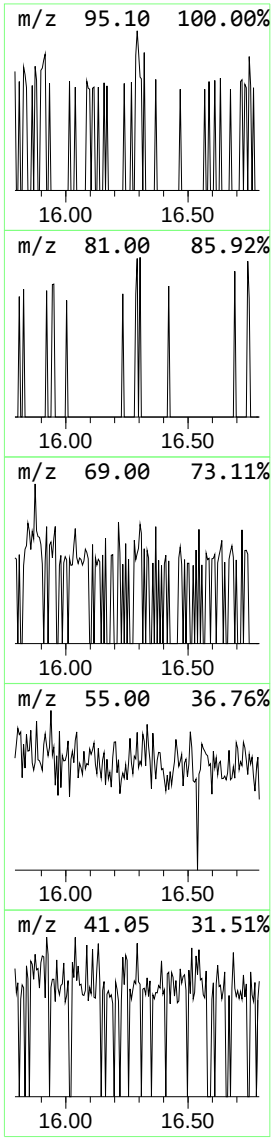
**********

Peak Number 18 unknown16.292 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.292 | 2.44 ng | 2489 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Aminopyrimidine | 95 | C4H5N3 | 000591-54-8 | 2 |
| 2 | 3-Pyridinol | 95 | C5H5NO | 000109-00-2 | 2 |
| 3 | 1H-Pyrrole, 1-methyl- | 81 | C5H7N | 000096-54-8 | 2 |
| 4 | 1-Hexyne, 5-methyl- | 96 | C7H12 | 002203-80-7 | 1 |
| 5 | 1-Heptyne | 96 | C7H12 | 000628-71-7 | 1 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

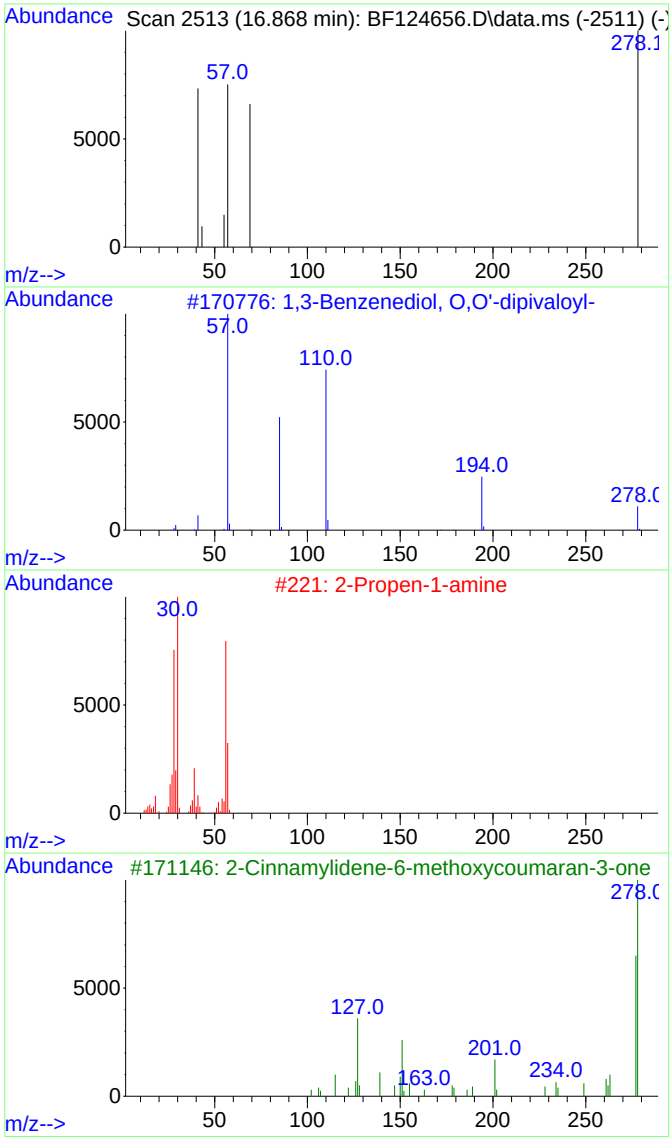
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

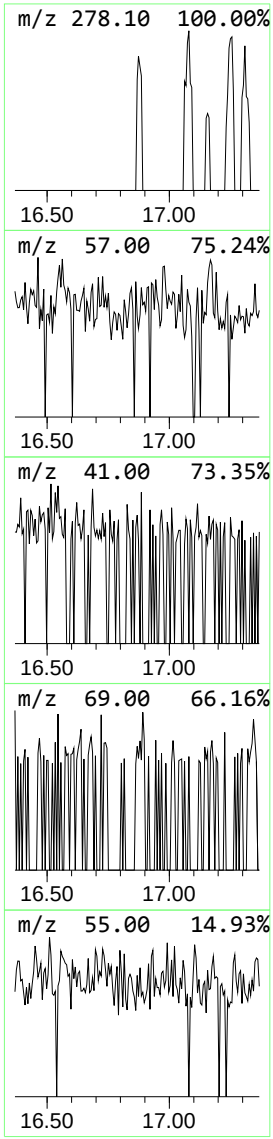
**********

Peak Number 19 unknown16.868 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.868 | 2.09 ng | 2126 | Perylene-d12 | 15.568 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Benzenediol, O,O'-dipivaloyl- | 278 | C16H22O4 | 1000330-67-7 | 3 |
| 2 | 2-Propen-1-amine | 57 | C3H7N | 000107-11-9 | 3 |
| 3 | 2-Cinnamylidene-6-methoxycoumara... | 278 | C18H14O3 | 077765-15-2 | 3 |
| 4 | Methylenetanshinquinone | 278 | C18H14O3 | 067656-29-5 | 3 |
| 5 | Phenanthro[3,2-b]furan-7,11-dion... | 278 | C18H14O3 | 020958-18-3 | 3 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072021\
Data File : BF124656.D
Acq On : 21 Jul 2021 6:57
Operator : JU/CG
Sample : M3069-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** CL-01-071621

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Anthracene, 1-m... | 11.933 | 4.1 | ng | 6990 | 4 | 11.433 | 34317 | 20.0 |
| Phenanthrene, 4... | 11.963 | 5.1 | ng | 8821 | 4 | 11.433 | 34317 | 20.0 |
| 1H-Cyclopropa[l... | 12.010 | 2.4 | ng | 4094 | 4 | 11.433 | 34317 | 20.0 |
| 4H-Cyclopenta[d... | 12.051 | 10.8 | ng | 18459 | 4 | 11.433 | 34317 | 20.0 |
| 9,10-Bis(bromom... | 12.227 | 2.3 | ng | 3987 | 4 | 11.433 | 34317 | 20.0 |
| 11H-Benzo[a]flu... | 13.098 | 2.0 | ng | 7784 | 5 | 14.074 | 77286 | 20.0 |
| Fluoranthene, 2... | 13.204 | 3.9 | ng | 14970 | 5 | 14.074 | 77286 | 20.0 |
| 7H-Benzo[c]fluo... | 13.274 | 2.3 | ng | 8770 | 5 | 14.074 | 77286 | 20.0 |
| Pyrene, 1-methyl- | 13.310 | 2.3 | ng | 8775 | 5 | 14.074 | 77286 | 20.0 |
| 11H-Benzo[a]flu... | 13.710 | 2.1 | ng | 8314 | 5 | 14.074 | 77286 | 20.0 |
| unknown13.874 | 13.874 | 2.1 | ng | 8168 | 5 | 14.074 | 77286 | 20.0 |
| unknown14.180 | 14.180 | 2.5 | ng | 9650 | 5 | 14.074 | 77286 | 20.0 |
| Chrysene, 5-met... | 14.457 | 2.1 | ng | 8047 | 5 | 14.074 | 77286 | 20.0 |
| Perylene | 15.239 | 7.2 | ng | 7296 | 6 | 15.568 | 20367 | 20.0 |
| unknown15.392 | 15.392 | 3.1 | ng | 3116 | 6 | 15.568 | 20367 | 20.0 |
| Benzo[j]fluoran... | 15.439 | 21.8 | ng | 22201 | 6 | 15.568 | 20367 | 20.0 |
| unknown15.733 | 15.733 | 2.5 | ng | 2552 | 6 | 15.568 | 20367 | 20.0 |
| unknown16.292 | 16.292 | 2.4 | ng | 2489 | 6 | 15.568 | 20367 | 20.0 |
| unknown16.868 | 16.868 | 2.1 | ng | 2126 | 6 | 15.568 | 20367 | 20.0 |