LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

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_M\Methods\8270-BM031522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM034322.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.490 | 377 | 383 | 392 | rBV | 1878460 | 2769437 | 36.74% | 2.965% |
| 2 | 7.096 | 649 | 656 | 665 | rBV | 1817515 | 2871864 | 38.10% | 3.074% |
| 3 | 7.937 | 792 | 799 | 807 | rBV | 639325 | 1019429 | 13.52% | 1.091% |
| 4 | 8.319 | 858 | 864 | 870 | rBV | 52214 | 86325 | 1.15% | 0.092% |
| 5 | 9.101 | 984 | 997 | 1009 | rBV | 1024481 | 1798155 | 23.85% | 1.925% |
| 6 | 10.748 | 1267 | 1277 | 1282 | rBV | 822906 | 1437305 | 19.07% | 1.539% |
| 7 | 10.801 | 1282 | 1286 | 1296 | rVB | 526246 | 855742 | 11.35% | 0.916% |
| 8 | 12.413 | 1552 | 1560 | 1567 | rBV | 256190 | 418974 | 5.56% | 0.449% |
| 9 | 12.631 | 1586 | 1597 | 1604 | rBV | 272546 | 434270 | 5.76% | 0.465% |
| 10 | 13.207 | 1688 | 1695 | 1704 | rBV | 2621899 | 3730255 | 49.48% | 3.993% |
| 11 | 13.419 | 1724 | 1731 | 1738 | rVB | 68752 | 108687 | 1.44% | 0.116% |
| 12 | 13.613 | 1757 | 1764 | 1773 | rVB | 54625 | 113078 | 1.50% | 0.121% |
| 13 | 13.901 | 1806 | 1813 | 1818 | rBV | 184747 | 322570 | 4.28% | 0.345% |
| 14 | 13.954 | 1818 | 1822 | 1829 | rVB | 96910 | 154458 | 2.05% | 0.165% |
| 15 | 14.136 | 1845 | 1853 | 1857 | rBV | 99319 | 164586 | 2.18% | 0.176% |
| 16 | 14.301 | 1871 | 1881 | 1891 | rBV | 207001 | 339428 | 4.50% | 0.363% |
| 17 | 14.578 | 1918 | 1928 | 1934 | rBV | 1222794 | 1871862 | 24.83% | 2.004% |
| 18 | 14.642 | 1934 | 1939 | 1946 | rVV | 541530 | 830516 | 11.02% | 0.889% |
| 19 | 14.789 | 1957 | 1964 | 1973 | rBV2 | 36443 | 102821 | 1.36% | 0.110% |
| 20 | 14.889 | 1974 | 1981 | 1985 | rVB2 | 63454 | 106764 | 1.42% | 0.114% |
| 21 | 14.972 | 1990 | 1995 | 2003 | rVB | 421206 | 657624 | 8.72% | 0.704% |
| 22 | 15.054 | 2003 | 2009 | 2016 | rBV | 62567 | 94817 | 1.26% | 0.102% |
| 23 | 15.195 | 2027 | 2033 | 2038 | rBV3 | 56471 | 101930 | 1.35% | 0.109% |
| 24 | 15.366 | 2054 | 2062 | 2065 | rBV2 | 48450 | 110161 | 1.46% | 0.118% |
| 25 | 15.625 | 2099 | 2106 | 2117 | rBV | 944581 | 1396395 | 18.52% | 1.495% |
| 26 | 15.719 | 2117 | 2122 | 2124 | rBV3 | 61956 | 94950 | 1.26% | 0.102% |
| 27 | 15.748 | 2124 | 2127 | 2130 | rVV2 | 88493 | 120033 | 1.59% | 0.128% |
| 28 | 15.783 | 2130 | 2133 | 2138 | rVB2 | 120560 | 167418 | 2.22% | 0.179% |
| 29 | 15.836 | 2138 | 2142 | 2145 | rBV2 | 57260 | 77454 | 1.03% | 0.083% |
| 30 | 15.919 | 2151 | 2156 | 2165 | rVB | 164121 | 280956 | 3.73% | 0.301% |
| 31 | 16.060 | 2173 | 2180 | 2188 | rBV | 2317562 | 3287719 | 43.61% | 3.520% |
| 32 | 16.148 | 2188 | 2195 | 2205 | rVB4 | 45106 | 129349 | 1.72% | 0.138% |
| 33 | 16.295 | 2211 | 2220 | 2227 | rVB7 | 46507 | 111867 | 1.48% | 0.120% |
| 34 | 16.624 | 2264 | 2276 | 2281 | rBV3 | 191824 | 442626 | 5.87% | 0.474% |
| 35 | 16.672 | 2281 | 2284 | 2290 | rVV2 | 104025 | 154745 | 2.05% | 0.166% |
| 36 | 16.777 | 2297 | 2302 | 2307 | rVB | 109015 | 170659 | 2.26% | 0.183% |

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

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_M\Methods\8270-BM031522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 16.854 | 2307 | 2315 | 2318 | rBV3 | 73356 | 170830 | 2.27% | 0.183% |
| 38 | 16.895 | 2318 | 2322 | 2325 | rVB2 | 67610 | 97714 | 1.30% | 0.105% |
| 39 | 16.972 | 2330 | 2335 | 2342 | rVB3 | 67562 | 130368 | 1.73% | 0.140% |
| 40 | 17.048 | 2342 | 2348 | 2350 | rBV2 | 83848 | 128098 | 1.70% | 0.137% |
| 41 | 17.136 | 2358 | 2363 | 2372 | rVB | 342255 | 513441 | 6.81% | 0.550% |
| 42 | 17.319 | 2388 | 2394 | 2397 | rBV | 1367738 | 1993046 | 26.44% | 2.134% |
| 43 | 17.366 | 2397 | 2402 | 2408 | rVV | 5286081 | 7538415 | 100.00% | 8.070% |
| 44 | 17.448 | 2408 | 2416 | 2422 | rVV | 1162674 | 1785897 | 23.69% | 1.912% |
| 45 | 17.507 | 2422 | 2426 | 2432 | rVB3 | 106739 | 183551 | 2.43% | 0.196% |
| 46 | 17.719 | 2452 | 2462 | 2467 | rBV | 459909 | 784955 | 10.41% | 0.840% |
| 47 | 17.836 | 2479 | 2482 | 2486 | rVB | 73954 | 94669 | 1.26% | 0.101% |
| 48 | 17.901 | 2489 | 2493 | 2500 | rVB2 | 101732 | 141788 | 1.88% | 0.152% |
| 49 | 18.042 | 2513 | 2517 | 2525 | rVB | 75069 | 146631 | 1.95% | 0.157% |
| 50 | 18.195 | 2538 | 2543 | 2548 | rBV | 644048 | 1265891 | 16.79% | 1.355% |
| 51 | 18.242 | 2548 | 2551 | 2558 | rVB | 860026 | 1213449 | 16.10% | 1.299% |
| 52 | 18.324 | 2559 | 2565 | 2570 | rBV | 310813 | 475327 | 6.31% | 0.509% |
| 53 | 18.389 | 2570 | 2576 | 2580 | rVV2 | 983180 | 1791814 | 23.77% | 1.918% |
| 54 | 18.424 | 2580 | 2582 | 2589 | rVB | 431703 | 546161 | 7.25% | 0.585% |
| 55 | 18.695 | 2623 | 2628 | 2631 | rBV | 398488 | 524904 | 6.96% | 0.562% |
| 56 | 18.730 | 2631 | 2634 | 2640 | rVB2 | 123836 | 164799 | 2.19% | 0.176% |
| 57 | 18.942 | 2666 | 2670 | 2673 | rVB | 144348 | 163123 | 2.16% | 0.175% |
| 58 | 18.989 | 2675 | 2678 | 2681 | rVV | 121034 | 157848 | 2.09% | 0.169% |
| 59 | 19.030 | 2681 | 2685 | 2689 | rVB2 | 111147 | 160188 | 2.12% | 0.171% |
| 60 | 19.113 | 2694 | 2699 | 2703 | rBV | 305073 | 501495 | 6.65% | 0.537% |
| 61 | 19.248 | 2718 | 2722 | 2731 | rBV2 | 133805 | 287880 | 3.82% | 0.308% |
| 62 | 19.377 | 2738 | 2744 | 2749 | rBV | 5101540 | 6945162 | 92.13% | 7.435% |
| 63 | 19.436 | 2750 | 2754 | 2757 | rBV2 | 181464 | 227057 | 3.01% | 0.243% |
| 64 | 19.483 | 2757 | 2762 | 2766 | rBV5 | 130178 | 266373 | 3.53% | 0.285% |
| 65 | 19.613 | 2781 | 2784 | 2788 | rBV | 152238 | 187803 | 2.49% | 0.201% |
| 66 | 19.736 | 2800 | 2805 | 2813 | rVB | 4332739 | 6274939 | 83.24% | 6.717% |
| 67 | 19.807 | 2813 | 2817 | 2824 | rVB2 | 234501 | 383348 | 5.09% | 0.410% |
| 68 | 19.936 | 2831 | 2839 | 2843 | rBV | 3724645 | 4766331 | 63.23% | 5.102% |
| 69 | 19.971 | 2843 | 2845 | 2850 | rVB | 185992 | 227219 | 3.01% | 0.243% |
| 70 | 20.054 | 2854 | 2859 | 2861 | rBV2 | 300287 | 476808 | 6.33% | 0.510% |
| 71 | 20.195 | 2879 | 2883 | 2884 | rBV2 | 148764 | 209417 | 2.78% | 0.224% |
| 72 | 20.224 | 2885 | 2888 | 2894 | rVB | 788508 | 1081320 | 14.34% | 1.158% |
| 73 | 20.324 | 2901 | 2905 | 2910 | rBV | 739167 | 986779 | 13.09% | 1.056% |
| 74 | 20.383 | 2910 | 2915 | 2920 | rVB2 | 390994 | 600484 | 7.97% | 0.643% |
| 75 | 20.524 | 2936 | 2939 | 2942 | rBV | 249050 | 269710 | 3.58% | 0.289% |
| 76 | 20.571 | 2943 | 2947 | 2951 | rVB | 295000 | 419704 | 5.57% | 0.449% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

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_M\Methods\8270-BM031522.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 21.136 | 3040 | 3043 | 3046 | rBV | 269788 | 314846 | 4.18% | 0.337% |
| 78 | 21.177 | 3047 | 3050 | 3051 | rVV | 327462 | 347007 | 4.60% | 0.371% |
| 79 | 21.201 | 3051 | 3054 | 3061 | rVB3 | 542052 | 991108 | 13.15% | 1.061% |
| 80 | 21.477 | 3096 | 3101 | 3107 | rBV3 | 2817864 | 5746395 | 76.23% | 6.152% |
| 81 | 21.530 | 3107 | 3110 | 3119 | rVB | 1985733 | 2559249 | 33.95% | 2.740% |
| 82 | 21.654 | 3127 | 3131 | 3136 | rBV | 311036 | 442436 | 5.87% | 0.474% |
| 83 | 21.812 | 3155 | 3158 | 3164 | rVB2 | 276561 | 395101 | 5.24% | 0.423% |
| 84 | 23.171 | 3383 | 3389 | 3394 | rBV | 1309803 | 3188158 | 42.29% | 3.413% |
| 85 | 23.695 | 3472 | 3478 | 3487 | rVB | 832108 | 1725699 | 22.89% | 1.847% |
| 86 | 23.795 | 3489 | 3495 | 3504 | rBV | 1275491 | 2611520 | 34.64% | 2.796% |
| 87 | 23.906 | 3507 | 3514 | 3519 | rBV2 | 1030760 | 2132200 | 28.28% | 2.283% |
| 88 | 26.412 | 3933 | 3940 | 3953 | rVB2 | 565791 | 1739952 | 23.08% | 1.863% |

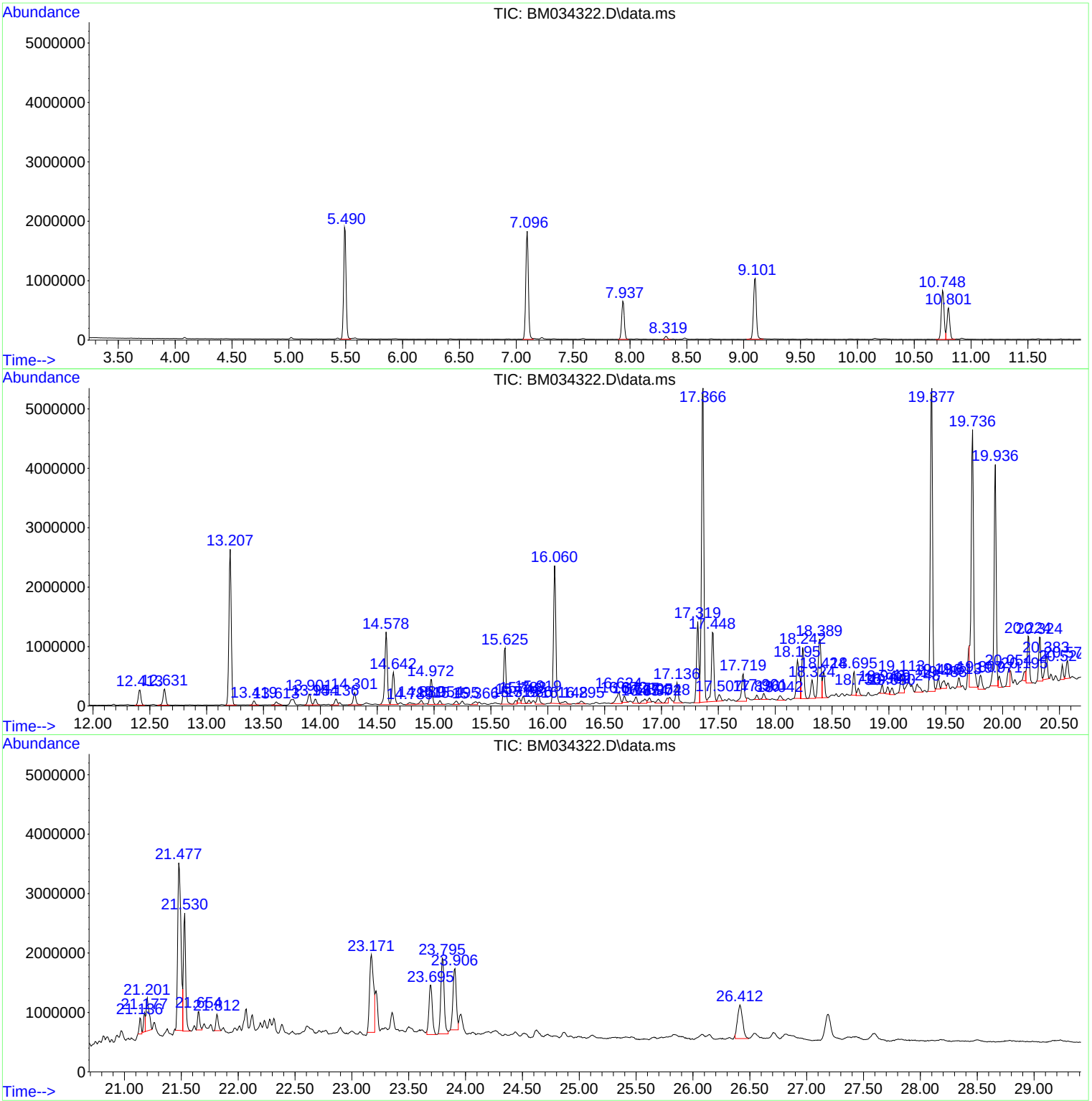
Sum of corrected areas: 93413636

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.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_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

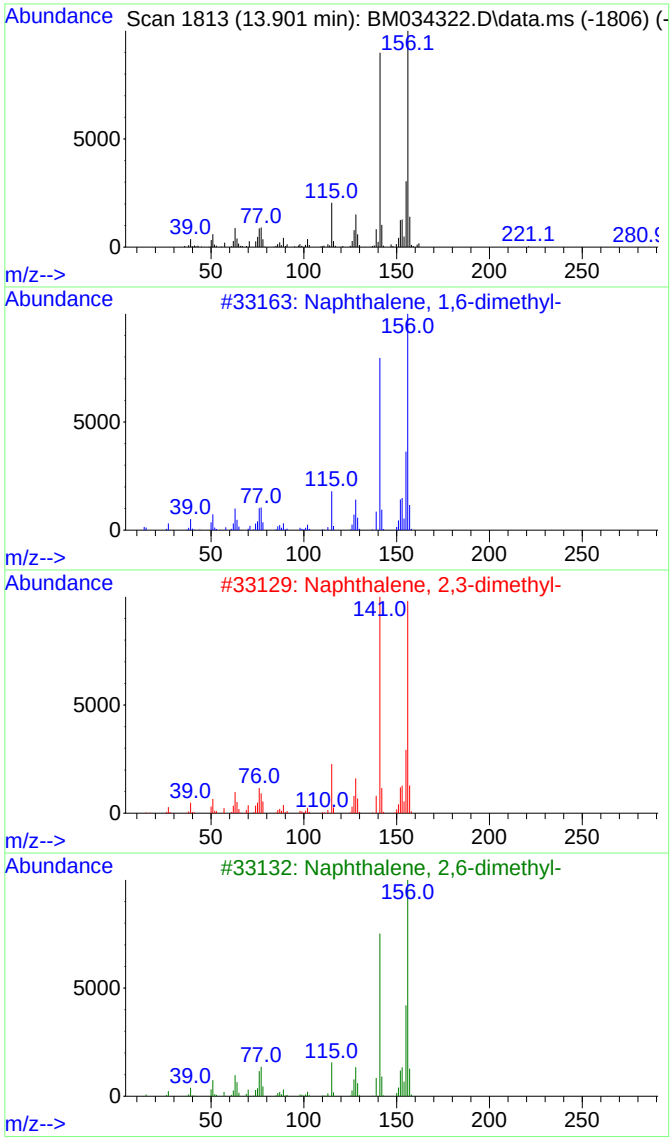
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

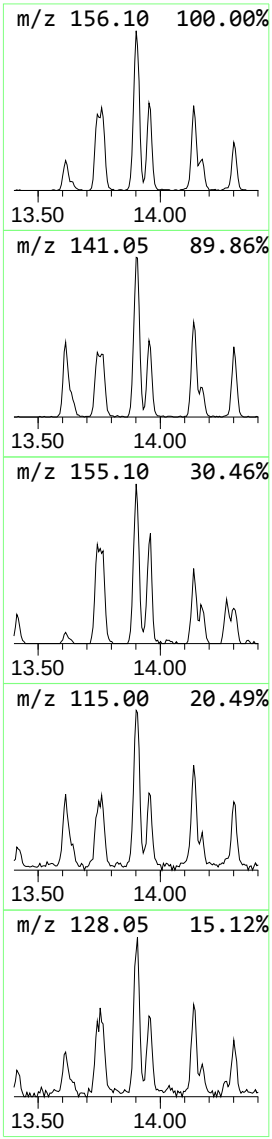
**********

Peak Number 1 Naphthalene, 1,6-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.901 | 3.45 ng | 322570 | Acenaphthene-d10 | 14.578 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

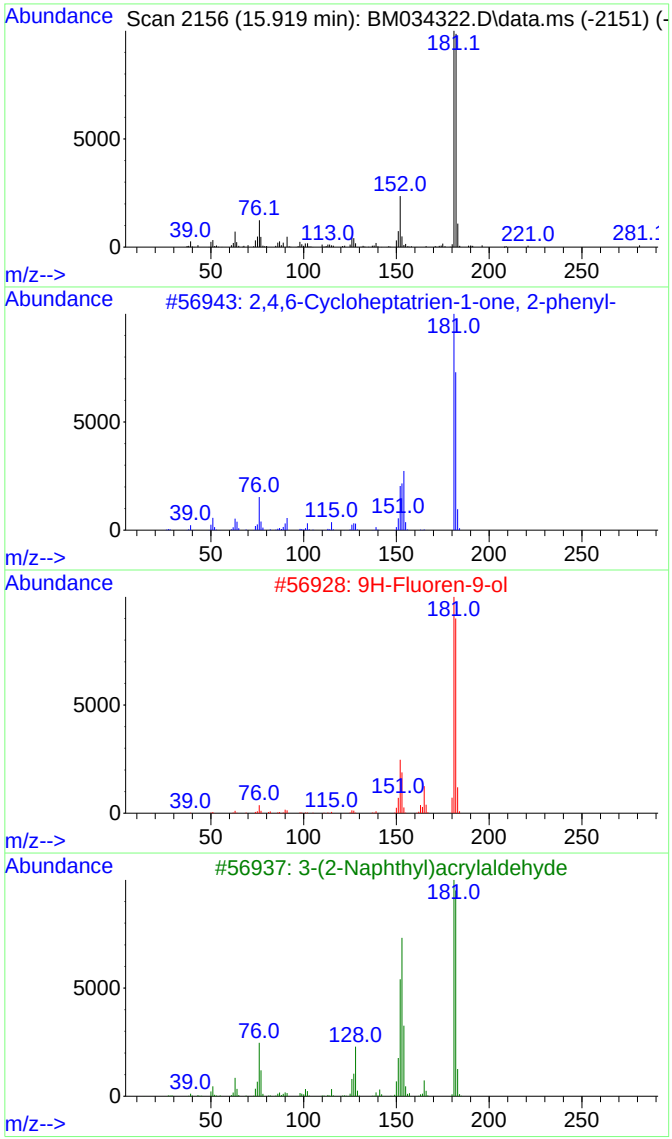
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

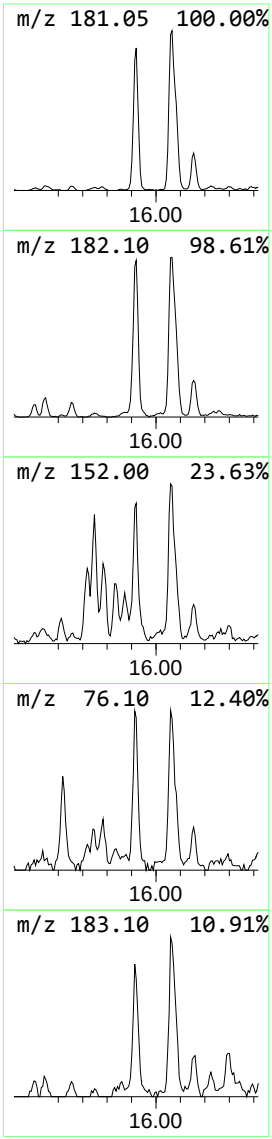
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 2,4,6-Cycloheptatrien-1-one... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.919 | 3.00 ng | 280956 | Acenaphthene-d10 | 14.578 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 86 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 3 | 3-(2-Naphthyl)acrylaldehyde | 182 | C13H10O | 020884-05-3 | 72 |
| 4 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 72 |
| 5 | 9H-Xanthene | 182 | C13H10O | 000092-83-1 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

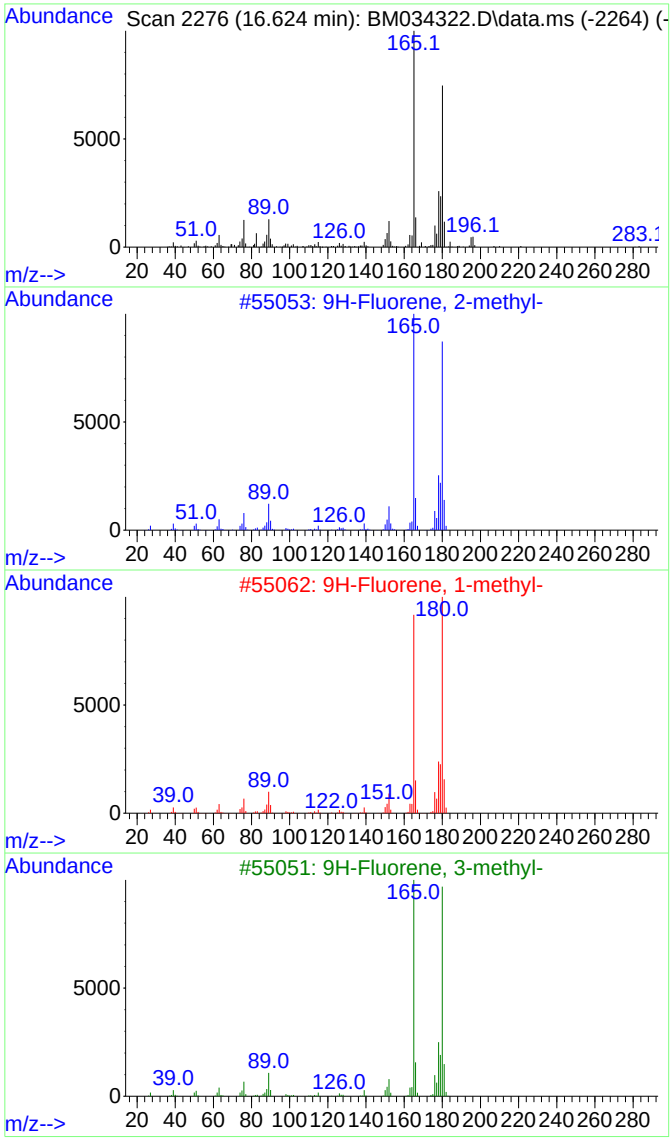
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

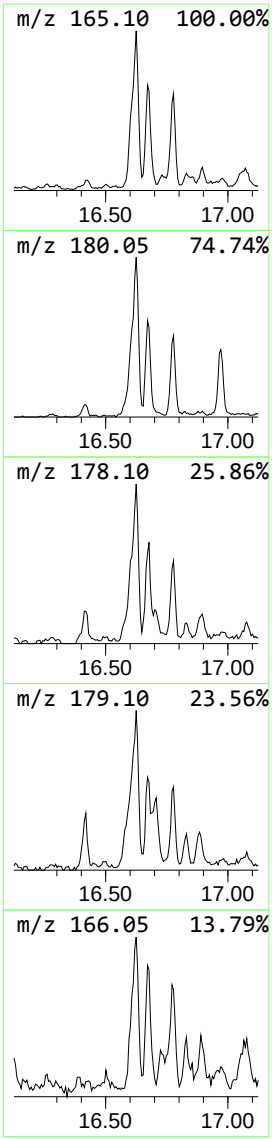
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.625 | 4.44 ng | 442626 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 97 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 96 |
| 3 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 93 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 93 |
| 5 | 9H-Fluorene, 4-methyl- | 180 | C14H12 | 001556-99-6 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

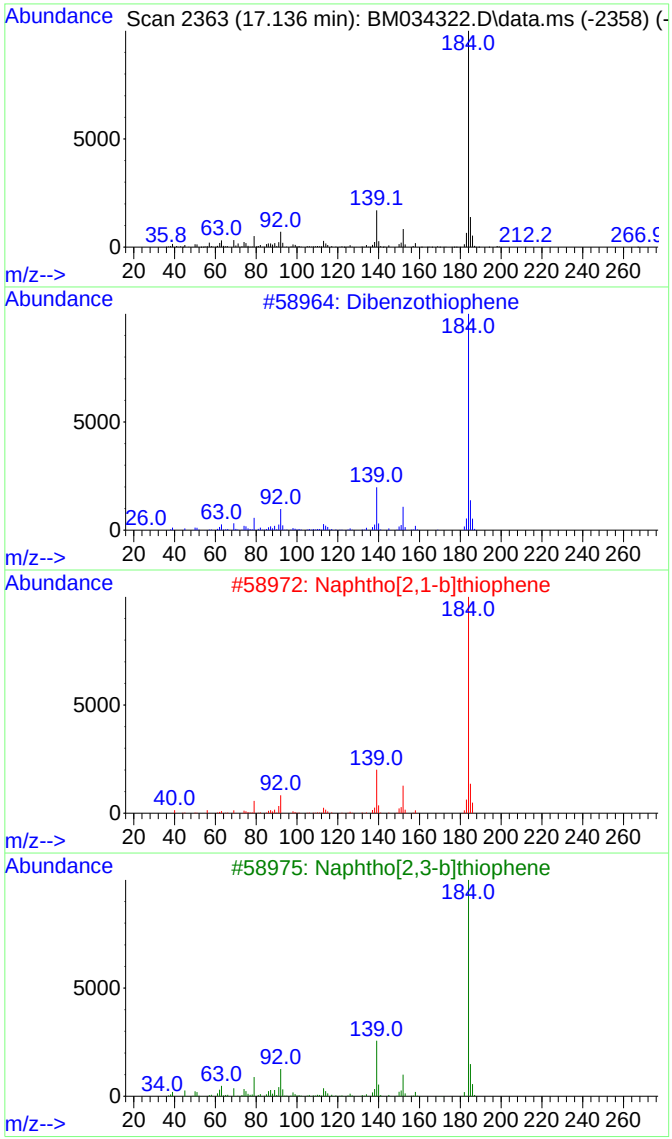
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

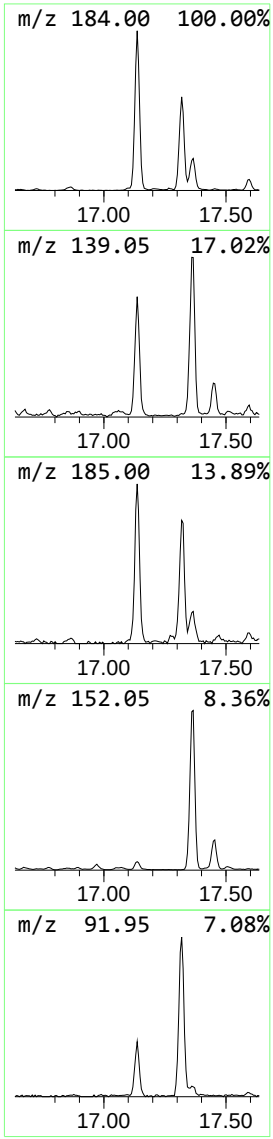
**********

Peak Number 4 Dibenzothiophene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.136 | 5.15 ng | 513441 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 3 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 4 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

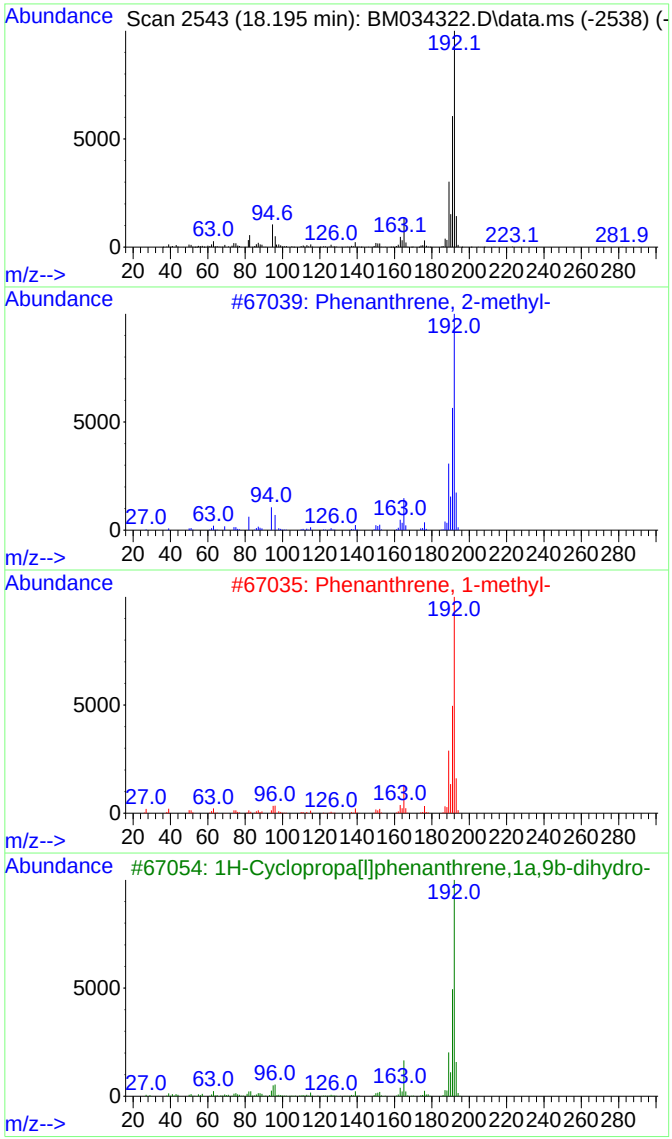
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

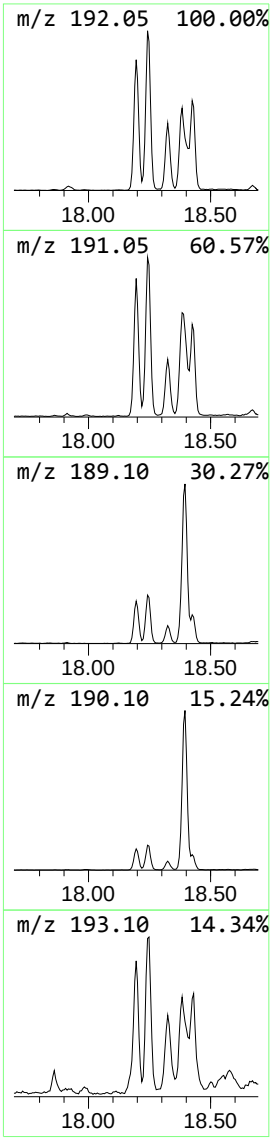
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.195 | 12.70 ng | 1265890 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 92 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

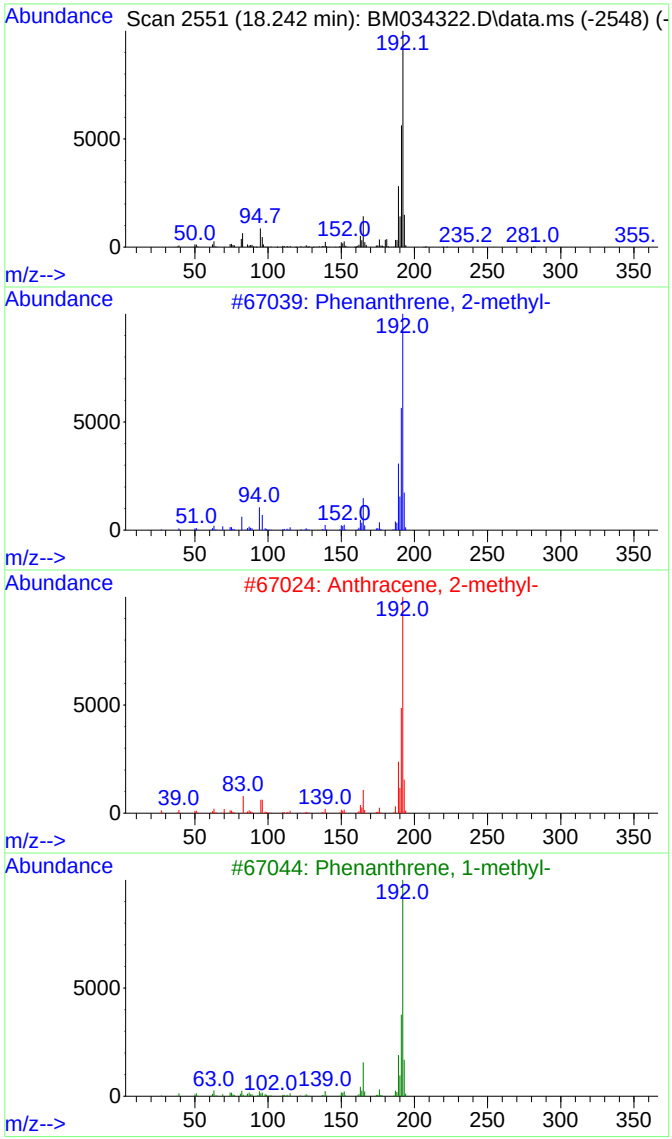
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

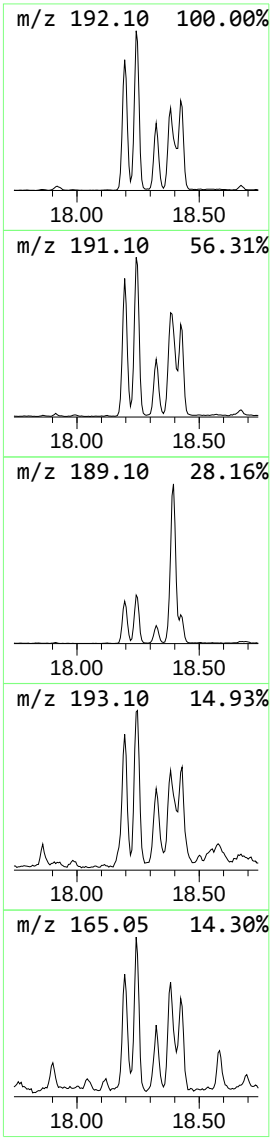
**********

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.242 | 12.18 ng | 1213450 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |



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Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

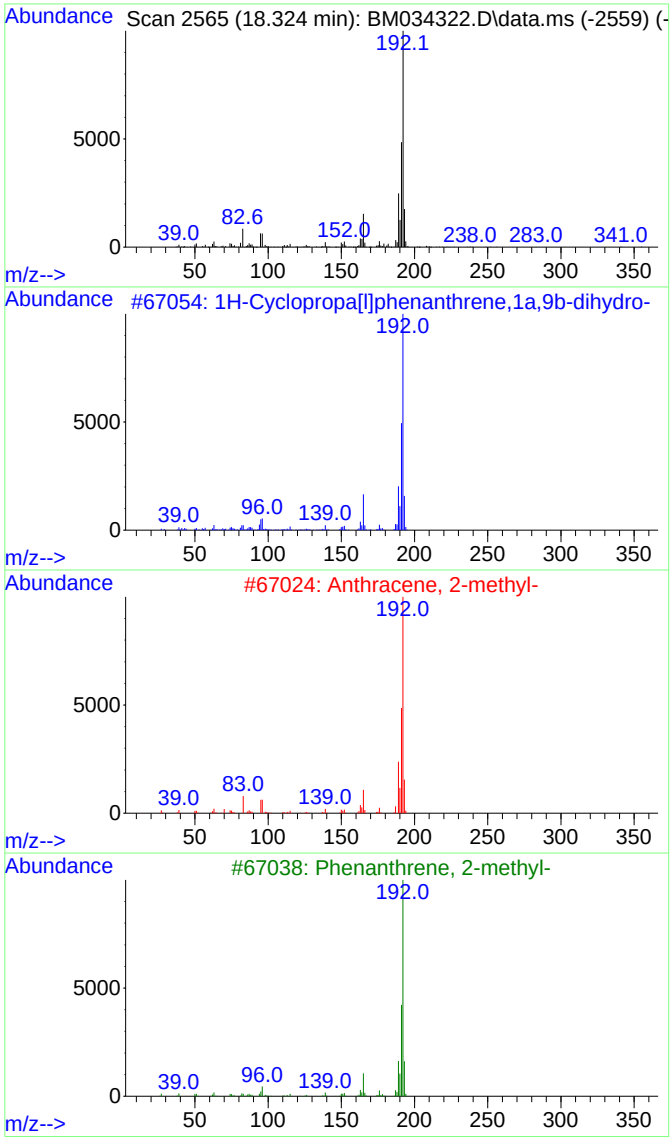
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

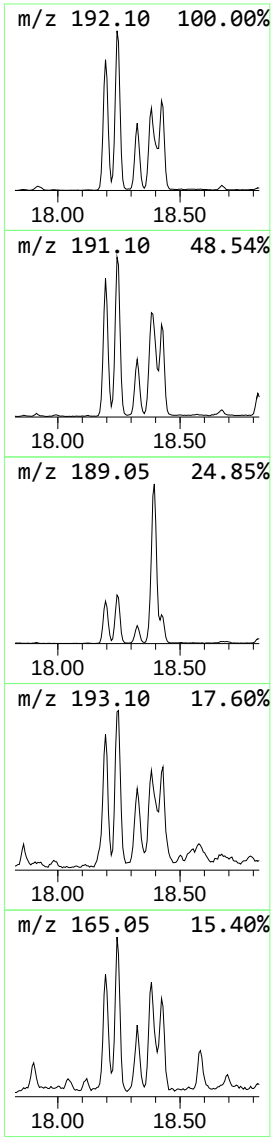
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.324 | 4.77 ng | 475327 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 93 |



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Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

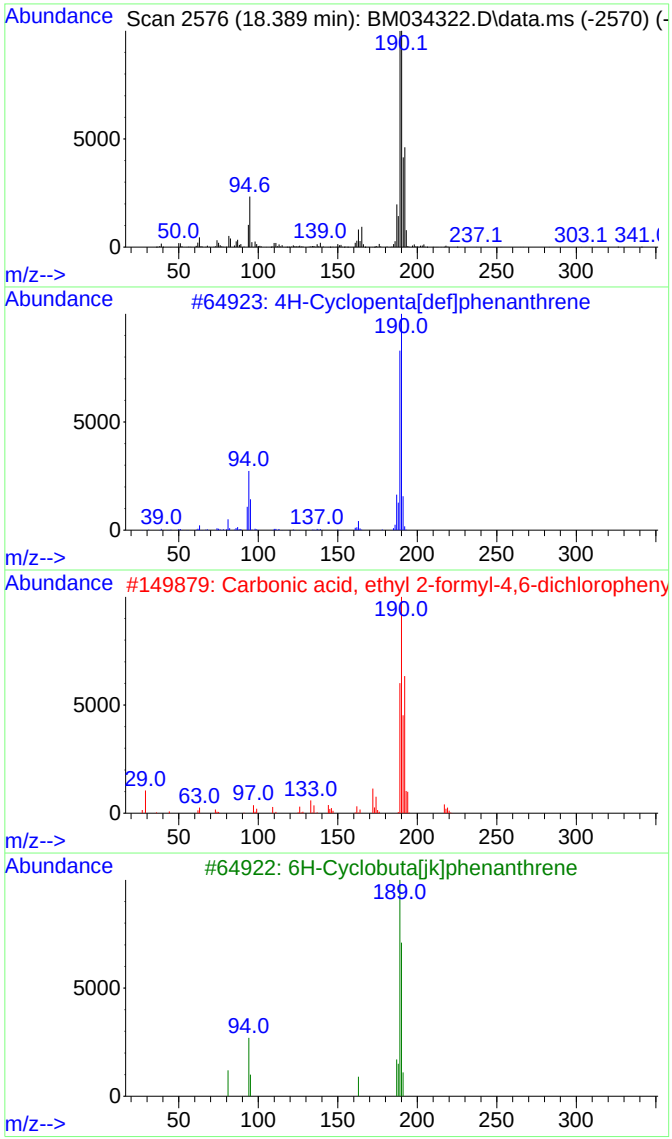
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

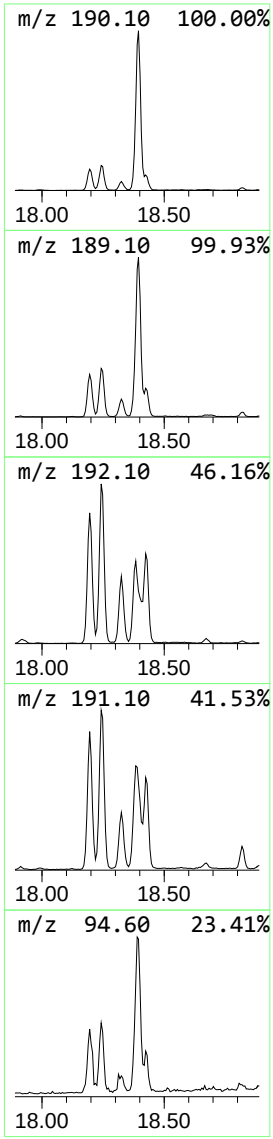
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.389 | 17.98 ng | 1791810 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 50 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 42 |
| 4 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 41 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

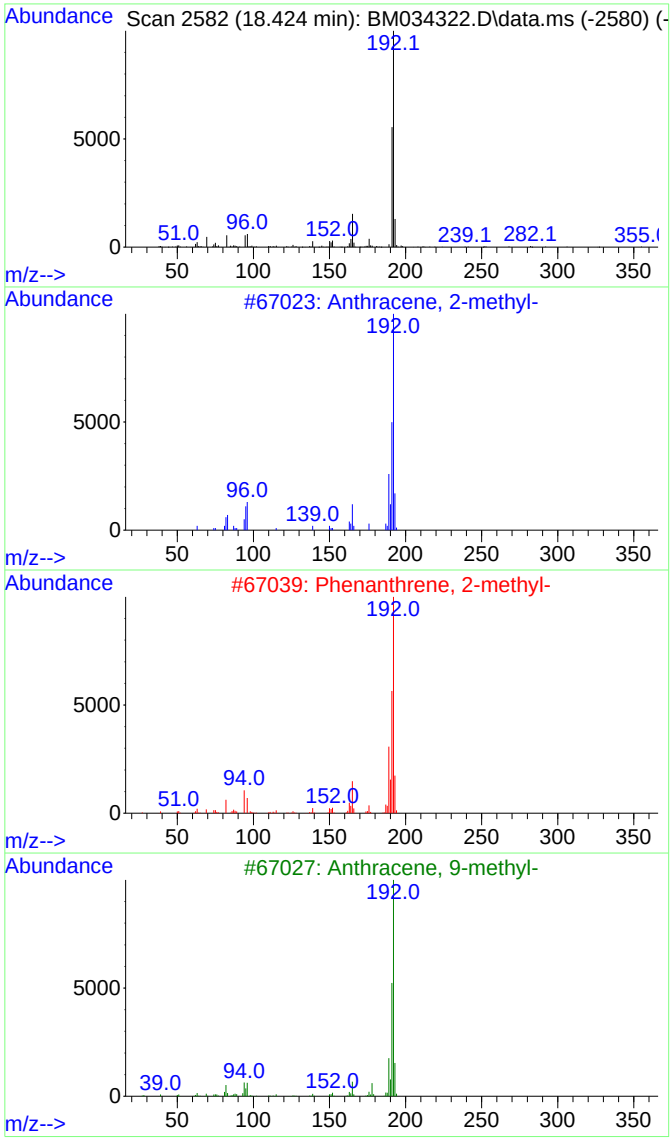
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

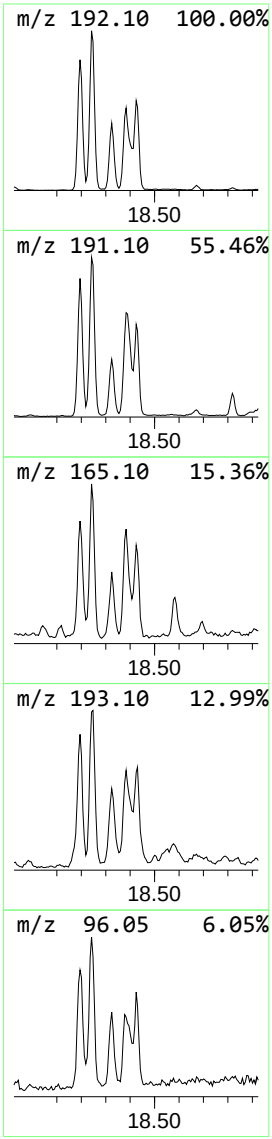
**********

Peak Number 9 Anthracene, 9-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.424 | 5.48 ng | 546161 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 90 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 90 |



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Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.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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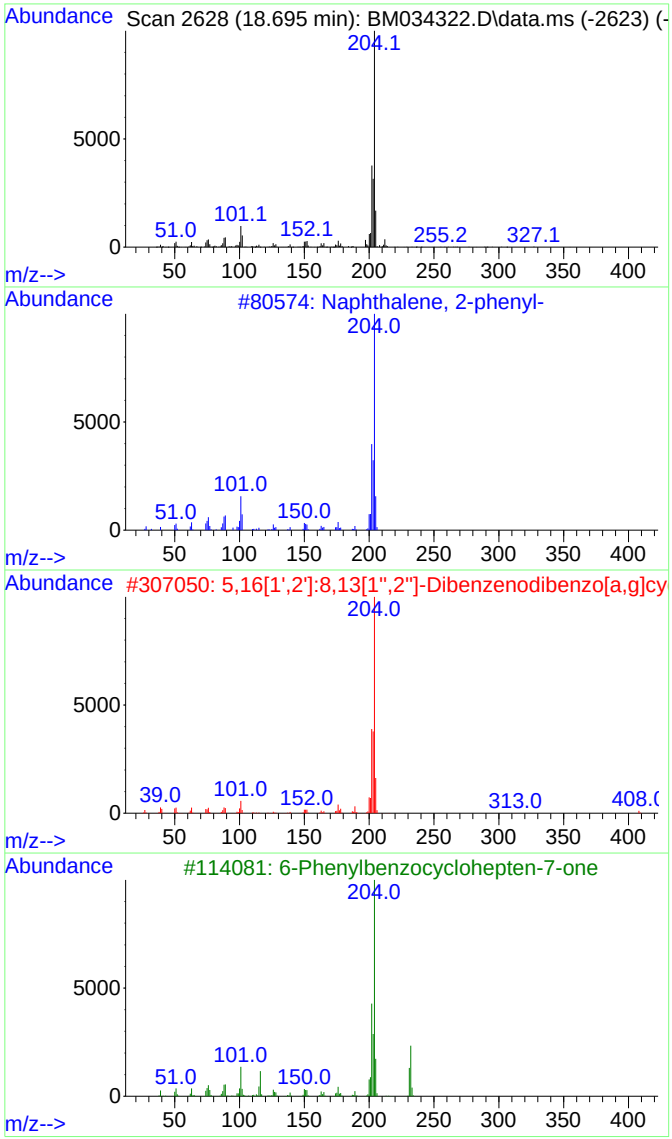
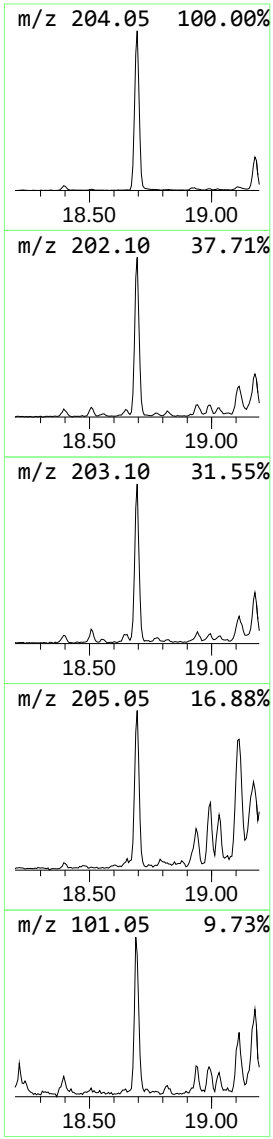
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.695 | 5.27 ng | 524904 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 90 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 87 |
| 3 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 86 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 74 |
| 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 62 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.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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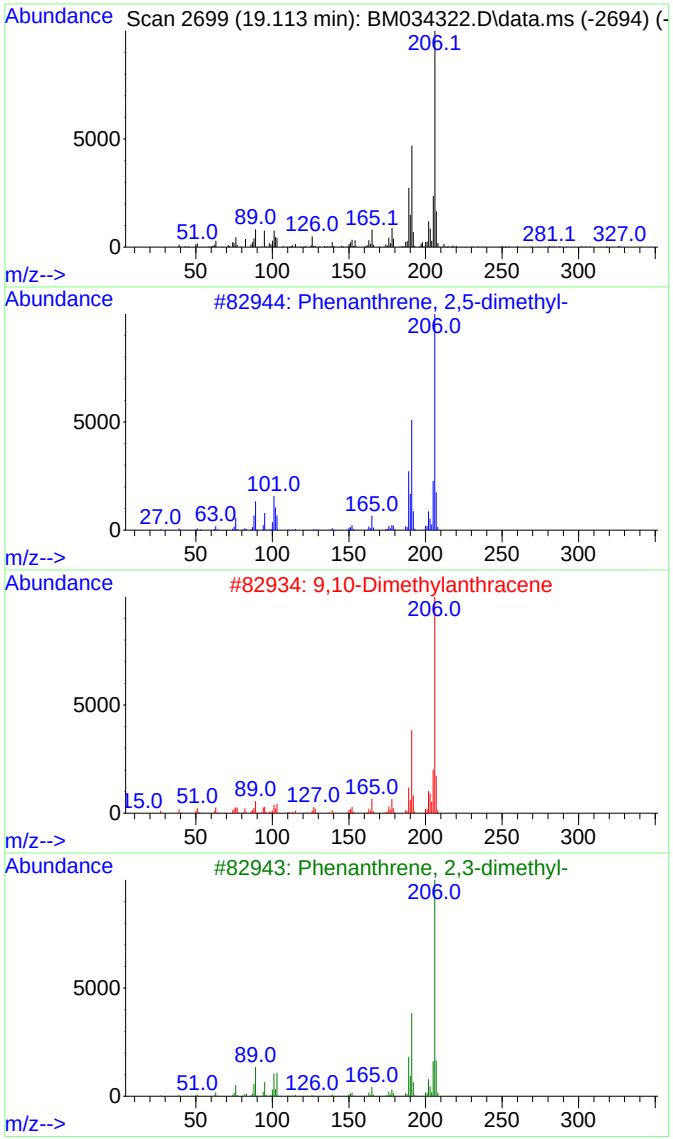
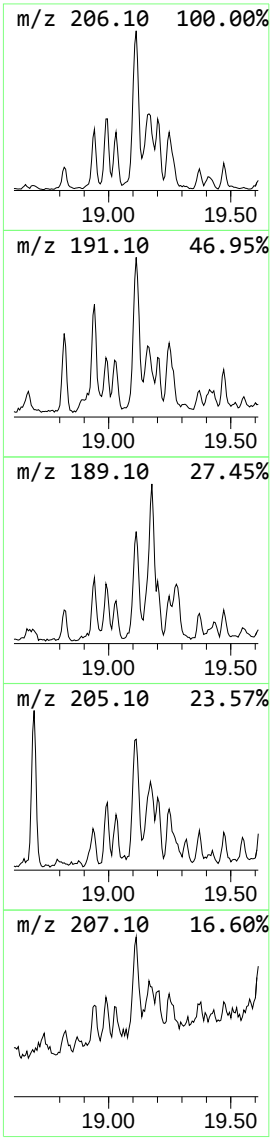
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.113 | 5.03 ng | 501495 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 96 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 91 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 87 |
| 5 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.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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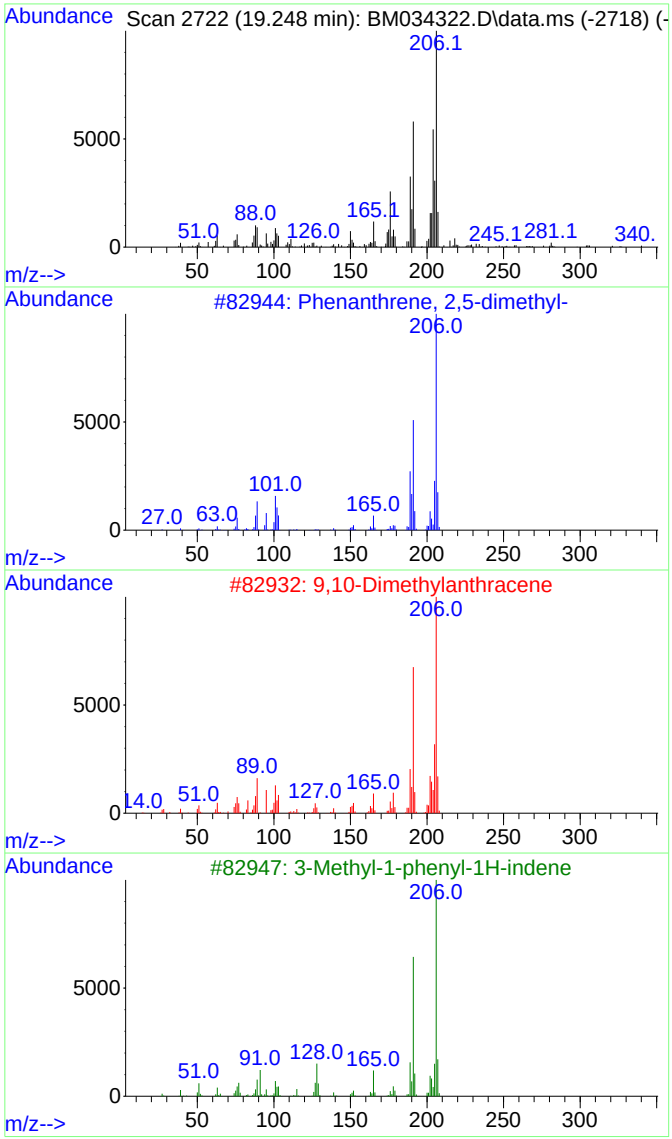
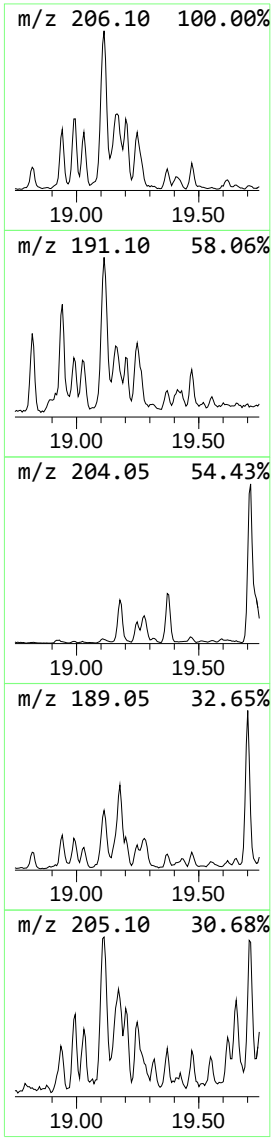
Peak Number 12 9,10-Dimethylanthracene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.248 | 2.89 ng | 287880 | Phenanthrene-d10 | 17.319 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 83 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 83 |
| 3 | 3-Methyl-1-phenyl-1H-indene | 206 | C16H14 | 022360-63-0 | 64 |
| 4 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 64 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 60 |



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Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

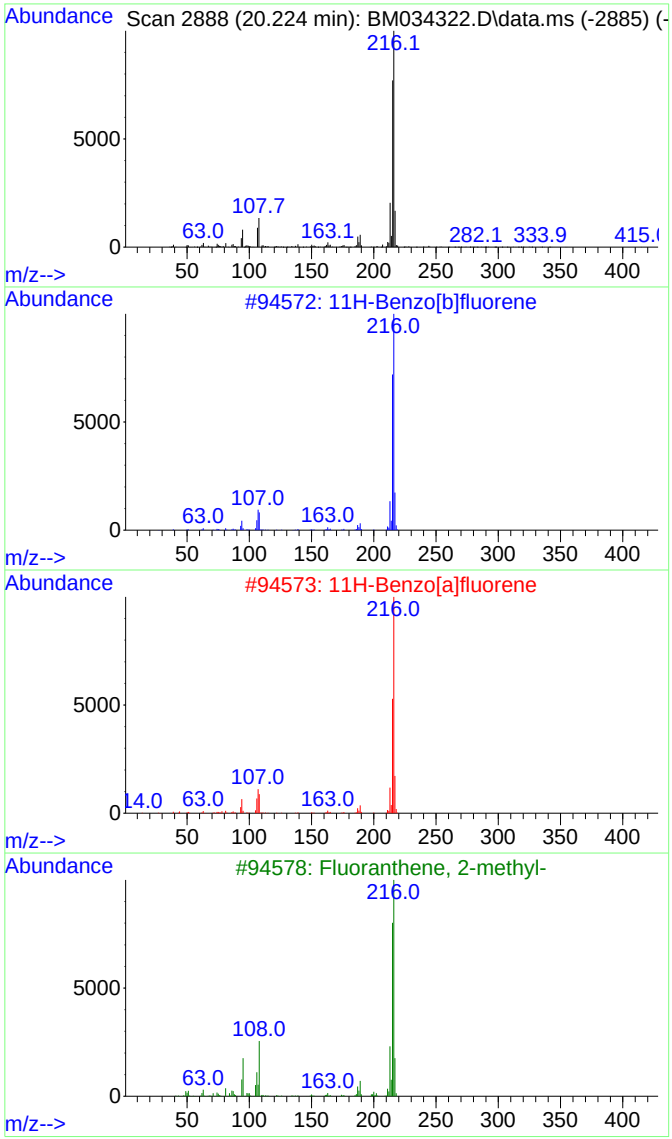
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

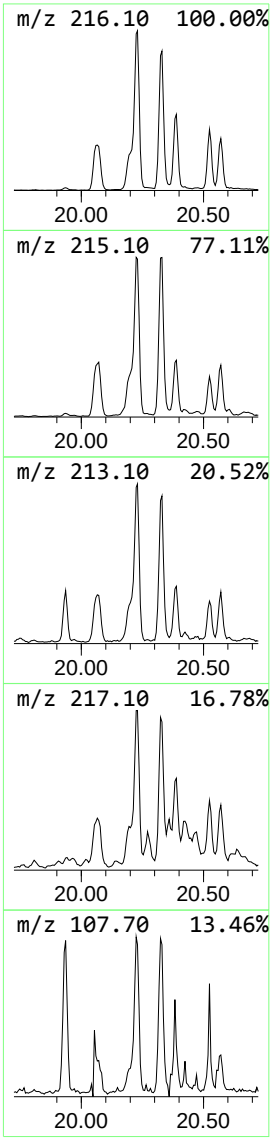
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.224 | 3.76 ng | 1081320 | Chrysene-d12 | 21.495 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 96 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 94 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 86 |
| 5 | 6H-Thiazolo[5,4-e]indole, 2,7,8-... | 216 | C12H12N2S | 1000338-32-0 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

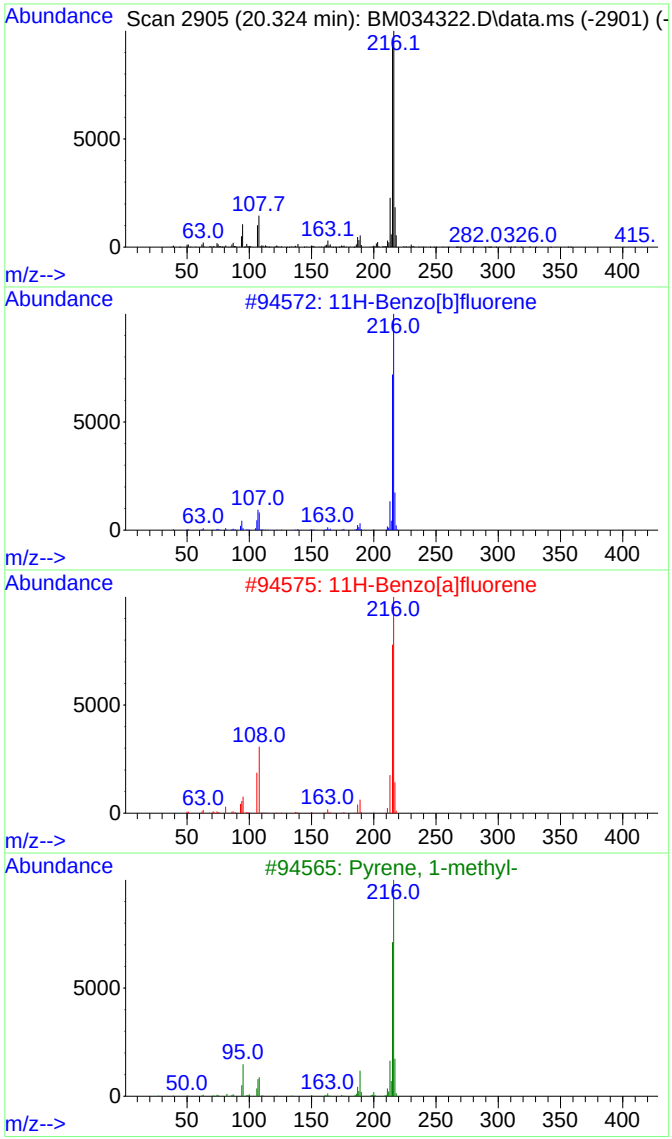
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

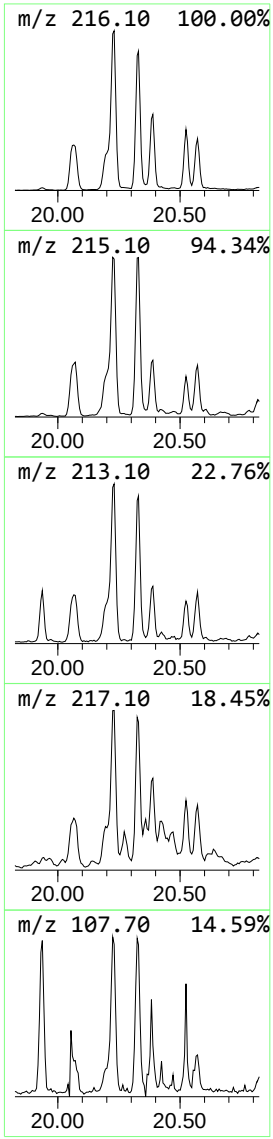
**********

Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.324 | 3.43 ng | 986779 | Chrysene-d12 | 21.495 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 4 | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 53 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

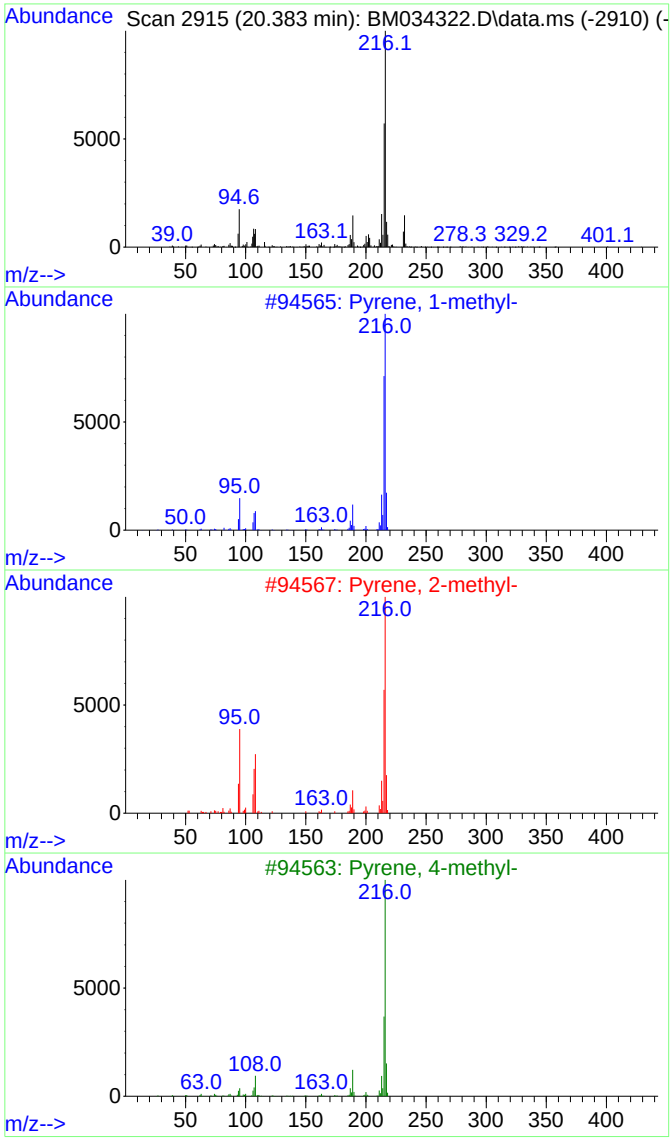
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

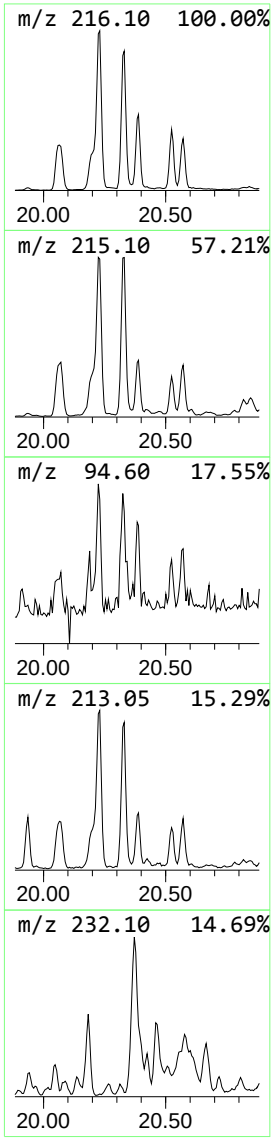
**********

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.383 | 2.09 ng | 600484 | Chrysene-d12 | 21.495 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 91 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 86 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 83 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

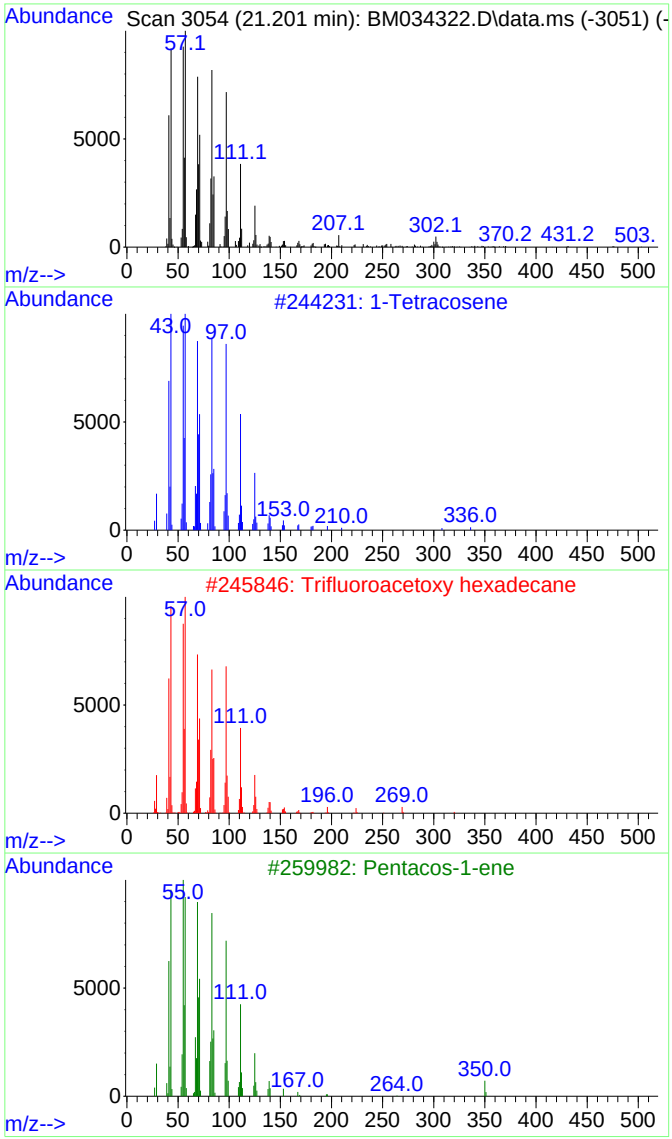
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

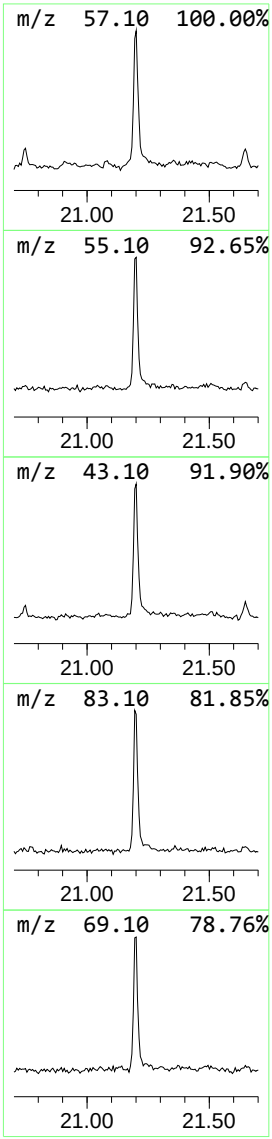
**********

Peak Number 16 1-Tetracosene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.201 | 3.45 ng | 991108 | Chrysene-d12 | 21.495 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Tetracosene | 336 | C24H48 | 010192-32-2 | 94 |
| 2 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 94 |
| 3 | Pentacos-1-ene | 350 | C25H50 | 016980-85-1 | 94 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 94 |
| 5 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

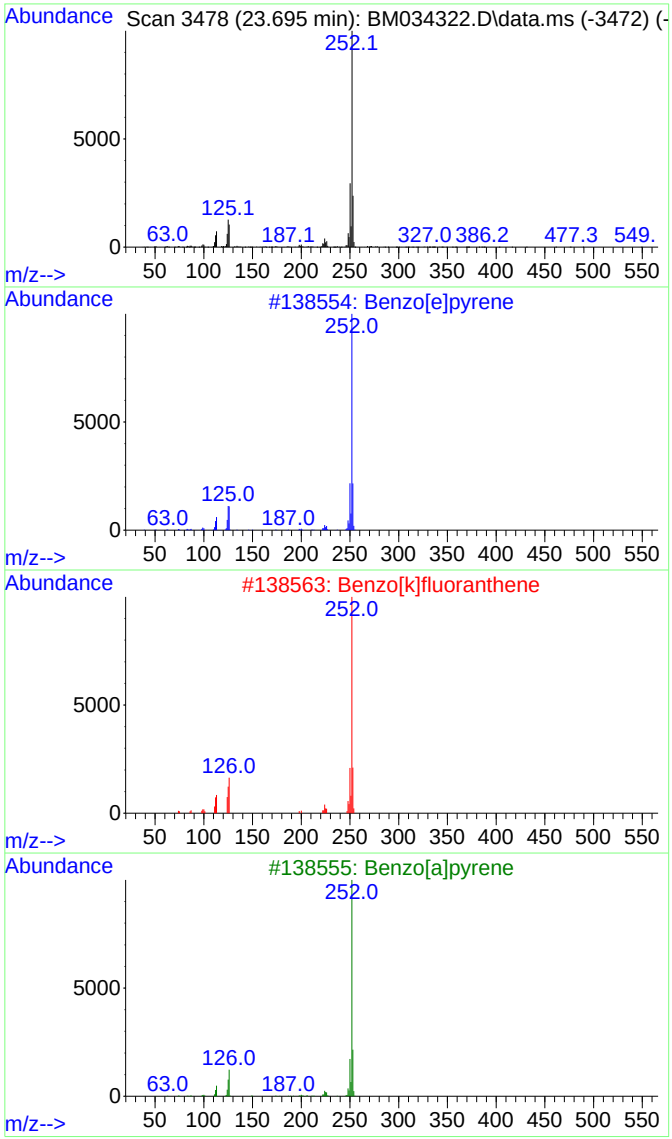
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

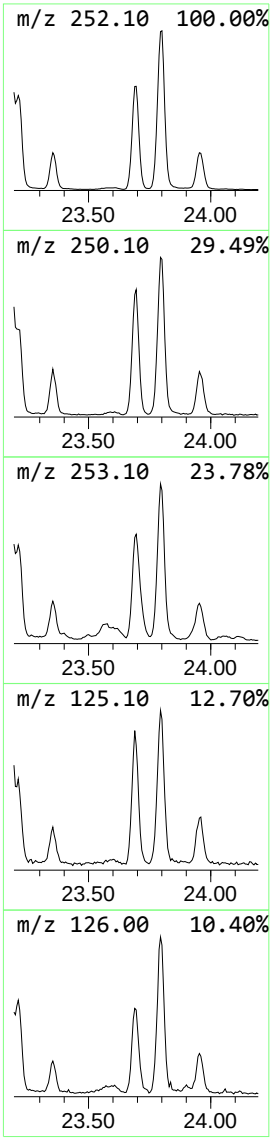
**********

Peak Number 17 Benzo[e]pyrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.695 | 16.19 ng | 1725700 | Perylene-d12 | 23.901 |

| 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[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 5 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
Acq On : 22 Mar 2022 22:28
Operator : CG/JU
Sample : N1958-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C-14-13-14

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.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 |
| Naphthalene, 1,... | 13.901 | 3.5 | ng | 322570 | 3 | 14.578 | 1871860 | 20.0 |
| 2,4,6-Cyclohept... | 15.919 | 3.0 | ng | 280956 | 3 | 14.578 | 1871860 | 20.0 |
| 9H-Fluorene, 2-... | 16.625 | 4.4 | ng | 442626 | 4 | 17.319 | 1993050 | 20.0 |
| Dibenzothiophene | 17.136 | 5.2 | ng | 513441 | 4 | 17.319 | 1993050 | 20.0 |
| Phenanthrene, 2... | 18.195 | 12.7 | ng | 1265890 | 4 | 17.319 | 1993050 | 20.0 |
| Anthracene, 2-m... | 18.242 | 12.2 | ng | 1213450 | 4 | 17.319 | 1993050 | 20.0 |
| 1H-Cyclopropa[l... | 18.324 | 4.8 | ng | 475327 | 4 | 17.319 | 1993050 | 20.0 |
| 4H-Cyclopenta[d... | 18.389 | 18.0 | ng | 1791810 | 4 | 17.319 | 1993050 | 20.0 |
| Anthracene, 9-m... | 18.424 | 5.5 | ng | 546161 | 4 | 17.319 | 1993050 | 20.0 |
| Naphthalene, 2-... | 18.695 | 5.3 | ng | 524904 | 4 | 17.319 | 1993050 | 20.0 |
| Phenanthrene, 2... | 19.113 | 5.0 | ng | 501495 | 4 | 17.319 | 1993050 | 20.0 |
| 9,10-Dimethylan... | 19.248 | 2.9 | ng | 287880 | 4 | 17.319 | 1993050 | 20.0 |
| 11H-Benzo[b]flu... | 20.224 | 3.8 | ng | 1081320 | 5 | 21.495 | 5746400 | 20.0 |
| 11H-Benzo[a]flu... | 20.324 | 3.4 | ng | 986779 | 5 | 21.495 | 5746400 | 20.0 |
| Pyrene, 1-methyl- | 20.383 | 2.1 | ng | 600484 | 5 | 21.495 | 5746400 | 20.0 |
| 1-Tetracosene | 21.201 | 3.5 | ng | 991108 | 5 | 21.495 | 5746400 | 20.0 |
| Benzo[e]pyrene | 23.695 | 16.2 | ng | 1725700 | 6 | 23.901 | 2132200 | 20.0 |