LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

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:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.592 | 507 | 511 | 536 | rBV2 | 53974 | 159012 | 8.06% | 0.669% |
| 2 | 5.275 | 623 | 627 | 658 | rBV | 1039276 | 1782970 | 90.36% | 7.505% |
| 3 | 6.945 | 906 | 911 | 923 | rBV | 1112152 | 1710642 | 86.70% | 7.200% |
| 4 | 7.039 | 923 | 927 | 943 | rVB | 1343646 | 1960562 | 99.37% | 8.252% |
| 5 | 7.386 | 981 | 986 | 1002 | rBV | 309635 | 407172 | 20.64% | 1.714% |
| 6 | 7.622 | 1021 | 1026 | 1040 | rBV | 1122094 | 1436161 | 72.79% | 6.045% |
| 7 | 8.304 | 1136 | 1142 | 1160 | rBV | 730961 | 1046138 | 53.02% | 4.403% |
| 8 | 9.416 | 1326 | 1331 | 1345 | rBV | 425269 | 532240 | 26.97% | 2.240% |
| 9 | 11.198 | 1628 | 1634 | 1652 | rVB | 1577534 | 1973089 | 100.00% | 8.305% |
| 10 | 11.886 | 1746 | 1751 | 1759 | rBV | 202411 | 242640 | 12.30% | 1.021% |
| 11 | 12.239 | 1805 | 1811 | 1816 | rBV2 | 434414 | 521461 | 26.43% | 2.195% |
| 12 | 12.286 | 1816 | 1819 | 1825 | rVB2 | 108976 | 140961 | 7.14% | 0.593% |
| 13 | 12.586 | 1863 | 1870 | 1873 | rBV2 | 16338 | 23336 | 1.18% | 0.098% |
| 14 | 13.098 | 1950 | 1957 | 1960 | rBV | 41123 | 50166 | 2.54% | 0.211% |
| 15 | 13.133 | 1960 | 1963 | 1974 | rVB2 | 73232 | 93322 | 4.73% | 0.393% |
| 16 | 13.268 | 1983 | 1986 | 1991 | rVB3 | 17141 | 22081 | 1.12% | 0.093% |
| 17 | 13.457 | 2012 | 2018 | 2022 | rVV3 | 15483 | 28866 | 1.46% | 0.121% |
| 18 | 13.533 | 2026 | 2031 | 2039 | rVV | 661871 | 870962 | 44.14% | 3.666% |
| 19 | 13.868 | 2084 | 2088 | 2090 | rBV2 | 40587 | 49612 | 2.51% | 0.209% |
| 20 | 14.033 | 2110 | 2116 | 2119 | rBV2 | 14959 | 22418 | 1.14% | 0.094% |
| 21 | 14.421 | 2178 | 2182 | 2186 | rBV5 | 11372 | 23709 | 1.20% | 0.100% |
| 22 | 14.462 | 2186 | 2189 | 2195 | rVB | 30079 | 40720 | 2.06% | 0.171% |
| 23 | 14.598 | 2207 | 2212 | 2214 | rBV | 26244 | 30924 | 1.57% | 0.130% |
| 24 | 14.633 | 2214 | 2218 | 2221 | rVV | 356706 | 451982 | 22.91% | 1.902% |
| 25 | 14.668 | 2221 | 2224 | 2232 | rVB | 594726 | 717249 | 36.35% | 3.019% |
| 26 | 14.756 | 2232 | 2239 | 2246 | rVB | 198745 | 255157 | 12.93% | 1.074% |
| 27 | 14.856 | 2250 | 2256 | 2260 | rBV4 | 9953 | 20107 | 1.02% | 0.085% |
| 28 | 15.280 | 2323 | 2328 | 2331 | rBV2 | 13698 | 23267 | 1.18% | 0.098% |
| 29 | 15.433 | 2349 | 2354 | 2358 | rBV | 73695 | 87019 | 4.41% | 0.366% |
| 30 | 15.474 | 2358 | 2361 | 2366 | rVV | 86650 | 105612 | 5.35% | 0.445% |
| 31 | 15.551 | 2370 | 2374 | 2376 | rVV2 | 51394 | 56384 | 2.86% | 0.237% |
| 32 | 15.586 | 2376 | 2380 | 2385 | rVV3 | 125858 | 186768 | 9.47% | 0.786% |
| 33 | 15.627 | 2385 | 2387 | 2389 | rVV2 | 51602 | 65902 | 3.34% | 0.277% |
| 34 | 15.651 | 2389 | 2391 | 2400 | rVB | 95175 | 105102 | 5.33% | 0.442% |

LSC Area Percent Report

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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

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:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.886 | 2427 | 2431 | 2437 | rVB | 65360 | 71239 | 3.61% | 0.300% |
| 36 | 16.098 | 2463 | 2467 | 2471 | rBV4 | 13944 | 20846 | 1.06% | 0.088% |
| 37 | 16.151 | 2471 | 2476 | 2479 | rBV3 | 14092 | 21953 | 1.11% | 0.092% |
| 38 | 16.245 | 2488 | 2492 | 2496 | rBV | 47858 | 59507 | 3.02% | 0.250% |
| 39 | 16.286 | 2496 | 2499 | 2503 | rVV5 | 27108 | 36496 | 1.85% | 0.154% |
| 40 | 16.368 | 2509 | 2513 | 2520 | rVB4 | 31202 | 46551 | 2.36% | 0.196% |
| 41 | 16.450 | 2520 | 2527 | 2532 | rBV | 823033 | 984532 | 49.90% | 4.144% |
| 42 | 16.498 | 2532 | 2535 | 2541 | rVB4 | 19584 | 24733 | 1.25% | 0.104% |
| 43 | 16.550 | 2541 | 2544 | 2548 | rBV4 | 27550 | 38362 | 1.94% | 0.161% |
| 44 | 16.645 | 2556 | 2560 | 2569 | rBV2 | 28786 | 56475 | 2.86% | 0.238% |
| 45 | 16.750 | 2572 | 2578 | 2583 | rVV | 921181 | 1041409 | 52.78% | 4.383% |
| 46 | 16.798 | 2583 | 2586 | 2589 | rVV | 47146 | 53354 | 2.70% | 0.225% |
| 47 | 16.839 | 2589 | 2593 | 2596 | rVV3 | 27163 | 47609 | 2.41% | 0.200% |
| 48 | 16.868 | 2596 | 2598 | 2606 | rVB5 | 59731 | 72502 | 3.67% | 0.305% |
| 49 | 16.945 | 2607 | 2611 | 2614 | rBV | 59729 | 64835 | 3.29% | 0.273% |
| 50 | 17.003 | 2614 | 2621 | 2625 | rVV | 1106992 | 1363508 | 69.11% | 5.739% |
| 51 | 17.080 | 2631 | 2634 | 2638 | rVV2 | 40427 | 56414 | 2.86% | 0.237% |
| 52 | 17.127 | 2639 | 2642 | 2646 | rVB3 | 19343 | 22509 | 1.14% | 0.095% |
| 53 | 17.192 | 2646 | 2653 | 2655 | rBV7 | 46178 | 88064 | 4.46% | 0.371% |
| 54 | 17.221 | 2655 | 2658 | 2662 | rVB | 147239 | 169133 | 8.57% | 0.712% |
| 55 | 17.274 | 2663 | 2667 | 2669 | rBV4 | 19711 | 25142 | 1.27% | 0.106% |
| 56 | 17.309 | 2669 | 2673 | 2677 | rVV | 149996 | 175889 | 8.91% | 0.740% |
| 57 | 17.350 | 2677 | 2680 | 2686 | rVV5 | 77677 | 157226 | 7.97% | 0.662% |
| 58 | 17.415 | 2688 | 2691 | 2695 | rVV3 | 39470 | 59801 | 3.03% | 0.252% |
| 59 | 17.468 | 2697 | 2700 | 2703 | rVV | 42546 | 49747 | 2.52% | 0.209% |
| 60 | 17.509 | 2703 | 2707 | 2713 | rVV | 36706 | 59603 | 3.02% | 0.251% |
| 61 | 17.568 | 2713 | 2717 | 2720 | rVV5 | 18267 | 28036 | 1.42% | 0.118% |
| 62 | 17.797 | 2753 | 2756 | 2760 | rVB3 | 54425 | 62493 | 3.17% | 0.263% |
| 63 | 17.862 | 2763 | 2767 | 2772 | rBV4 | 51724 | 71143 | 3.61% | 0.299% |
| 64 | 18.021 | 2791 | 2794 | 2797 | rBV | 56320 | 66131 | 3.35% | 0.278% |
| 65 | 18.056 | 2797 | 2800 | 2802 | rVV | 60524 | 60395 | 3.06% | 0.254% |
| 66 | 18.086 | 2802 | 2805 | 2809 | rVV | 43981 | 54671 | 2.77% | 0.230% |
| 67 | 18.121 | 2809 | 2811 | 2815 | rVB2 | 50799 | 58546 | 2.97% | 0.246% |
| 68 | 18.262 | 2829 | 2835 | 2843 | rBV5 | 96172 | 237058 | 12.01% | 0.998% |
| 69 | 18.344 | 2843 | 2849 | 2852 | rVV2 | 519180 | 834990 | 42.32% | 3.515% |
| 70 | 18.380 | 2852 | 2855 | 2861 | rVB | 370654 | 414800 | 21.02% | 1.746% |
| 71 | 18.474 | 2867 | 2871 | 2875 | rVB | 98611 | 106281 | 5.39% | 0.447% |

LSC Area Percent Report

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Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

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:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 18.627 | 2894 | 2897 | 2902 | rBV2 | 46519 | 49385 | 2.50% | 0.208% |
| 73 | 18.680 | 2902 | 2906 | 2911 | rVB3 | 65340 | 94420 | 4.79% | 0.397% |
| 74 | 18.856 | 2933 | 2936 | 2939 | rVV | 55607 | 58501 | 2.96% | 0.246% |
| 75 | 18.892 | 2940 | 2942 | 2947 | rVB2 | 41756 | 48913 | 2.48% | 0.206% |
| 76 | 18.968 | 2952 | 2955 | 2958 | rVB2 | 41931 | 46617 | 2.36% | 0.196% |
| 77 | 19.003 | 2958 | 2961 | 2963 | rBV3 | 31442 | 42317 | 2.14% | 0.178% |
| 78 | 19.062 | 2969 | 2971 | 2975 | rBV2 | 45643 | 49909 | 2.53% | 0.210% |
| 79 | 19.615 | 3061 | 3065 | 3068 | rBV | 254266 | 361775 | 18.34% | 1.523% |
| 80 | 19.727 | 3081 | 3084 | 3087 | rVB | 51743 | 46314 | 2.35% | 0.195% |
| 81 | 19.903 | 3111 | 3114 | 3118 | rVB | 139591 | 145644 | 7.38% | 0.613% |
| 82 | 19.962 | 3121 | 3124 | 3128 | rVB | 219031 | 225987 | 11.45% | 0.951% |
| 83 | 20.015 | 3130 | 3133 | 3136 | rBV | 226538 | 247658 | 12.55% | 1.042% |
| 84 | 21.197 | 3331 | 3334 | 3341 | rVB | 85980 | 136948 | 6.94% | 0.576% |
| 85 | 21.538 | 3389 | 3392 | 3398 | rVB2 | 64497 | 98289 | 4.98% | 0.414% |

Sum of corrected areas: 23758373

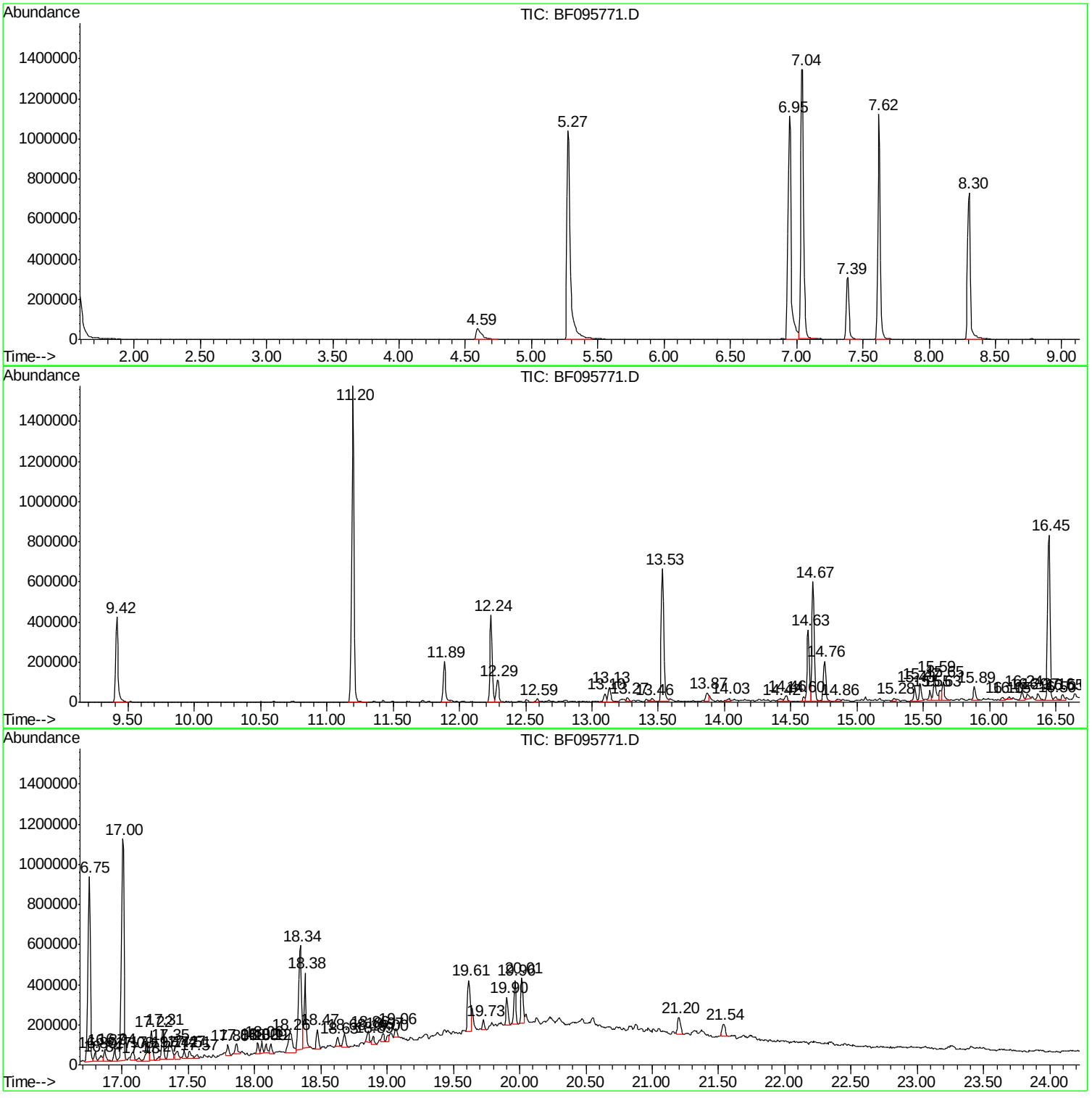
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

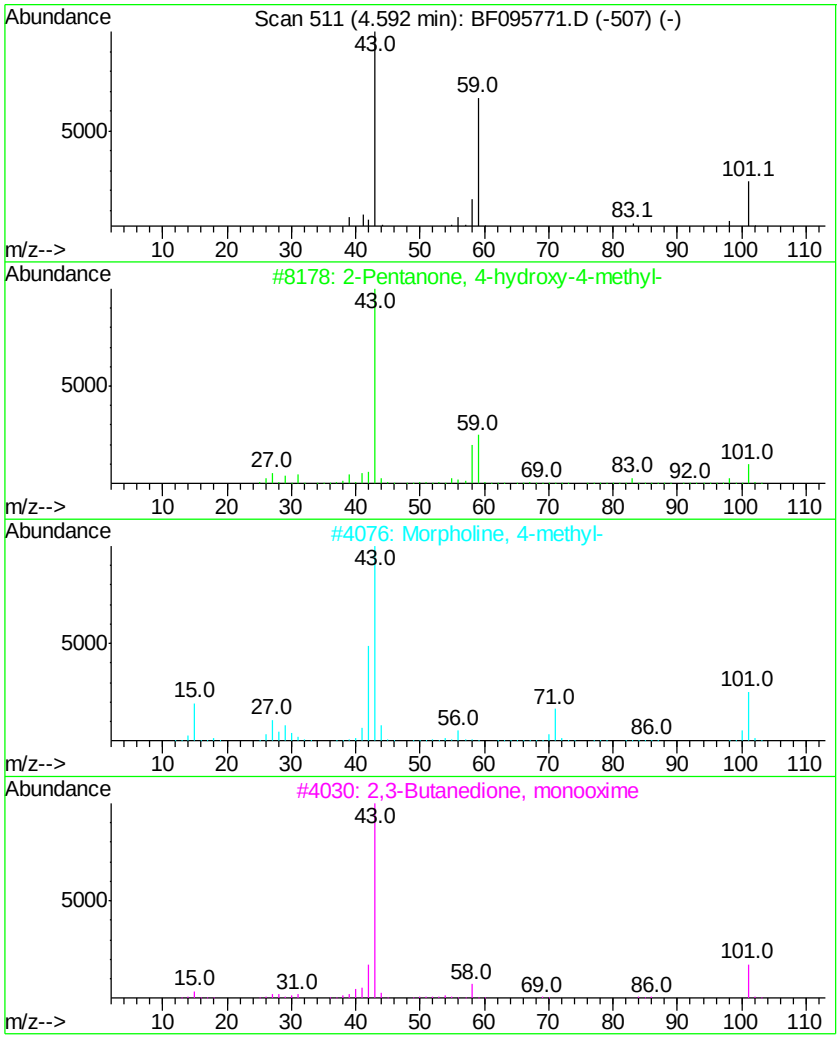
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

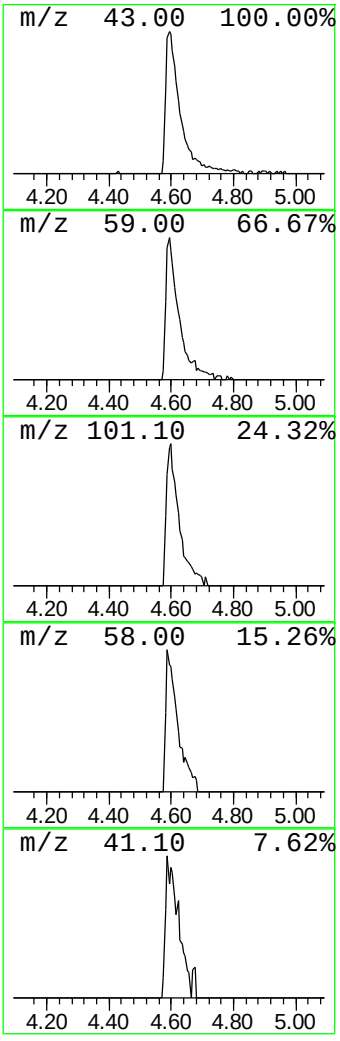
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.59 | 7.81 ng | 159012 | 1,4-Dichlorobenzene-d4 | 7.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Propane, 1-ethoxy-2-methyl- | 102 | C6H14O | 000627-02-1 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

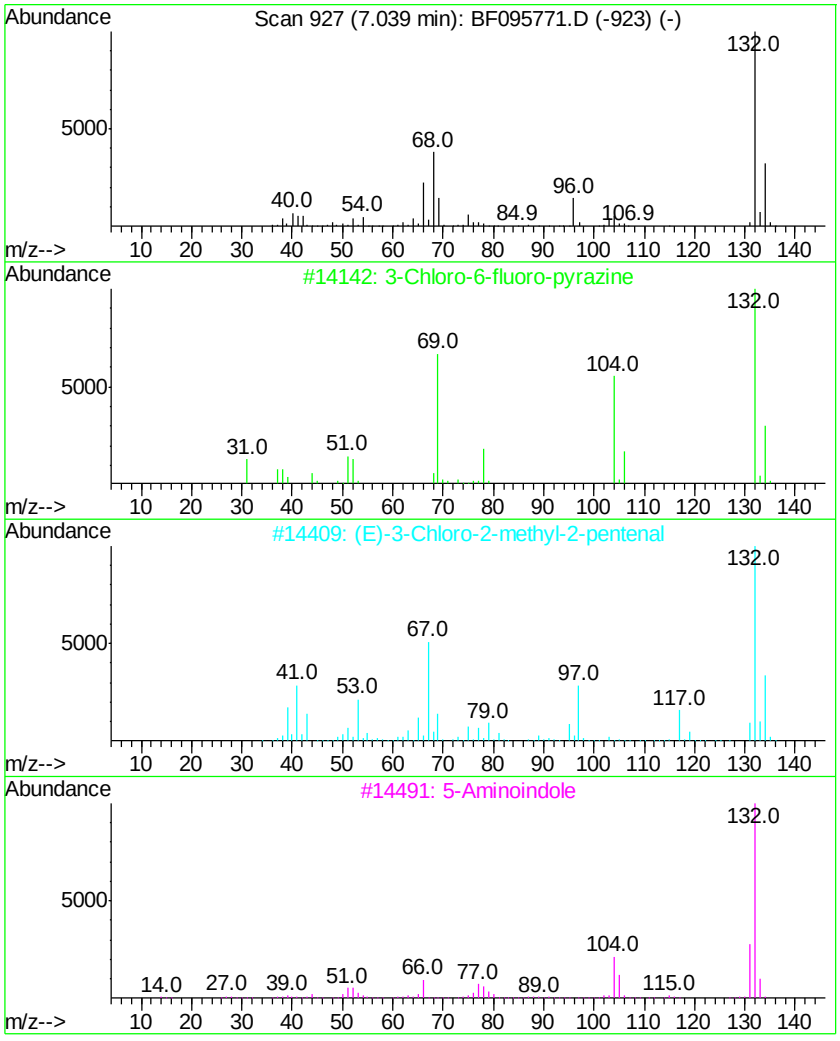
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

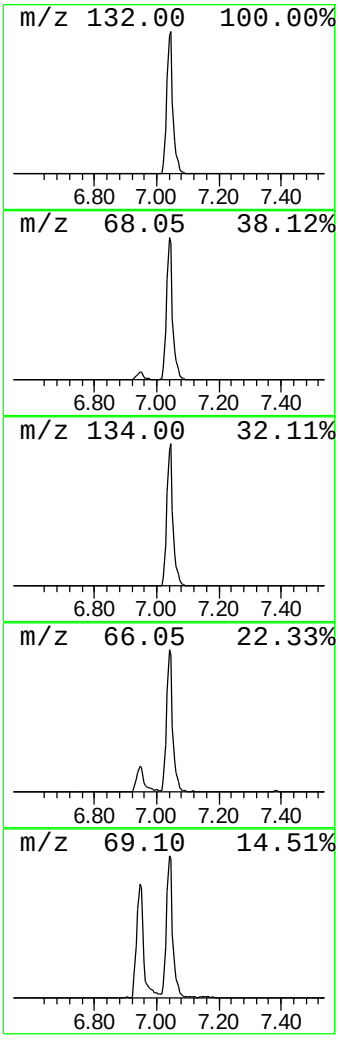
**********

Peak Number 2 unknown7.04 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.04 | 96.30 ng | 1960560 | 1,4-Dichlorobenzene-d4 | 7.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



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Sample : I3469-12
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ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

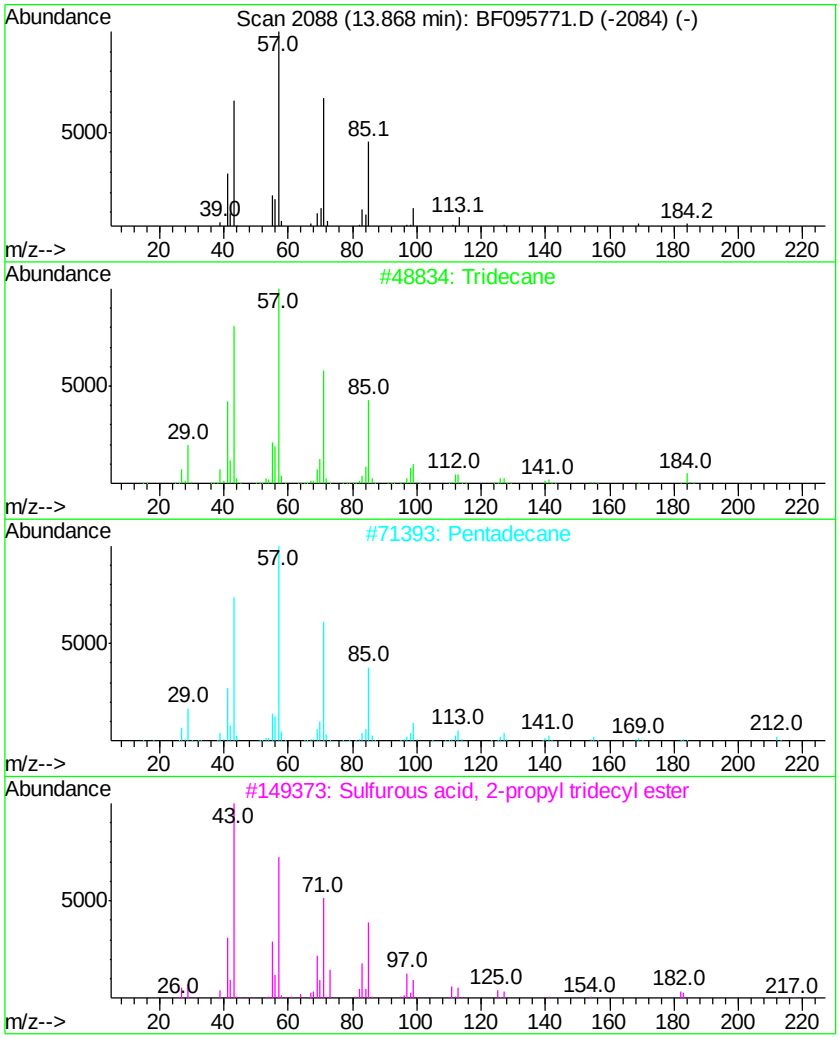
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

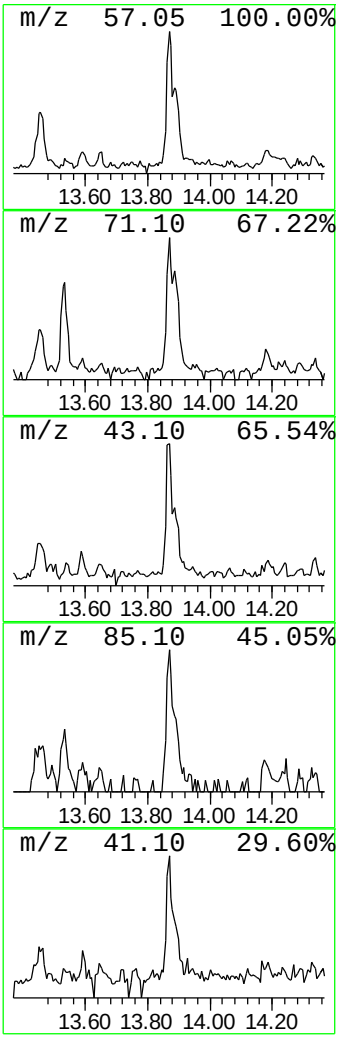
**********

Peak Number 4 Tridecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.87 | 2.20 ng | 49612 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 93 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 3 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 86 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 86 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |



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Sample : I3469-12
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ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

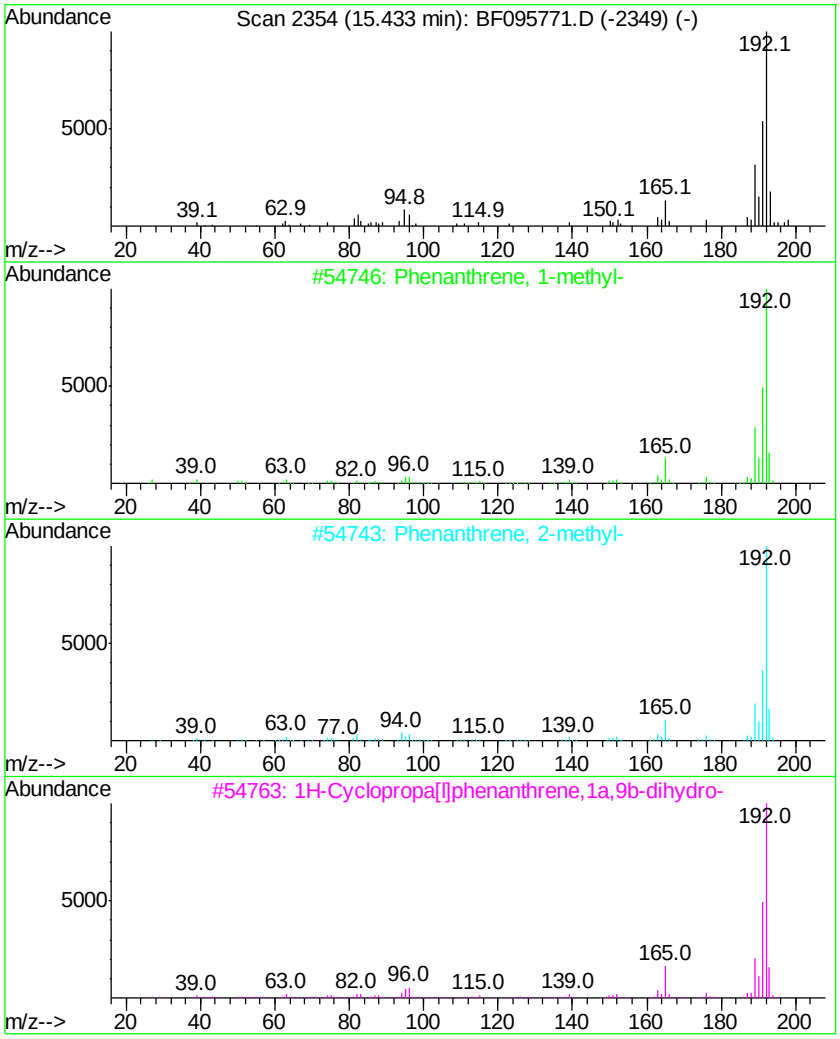
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

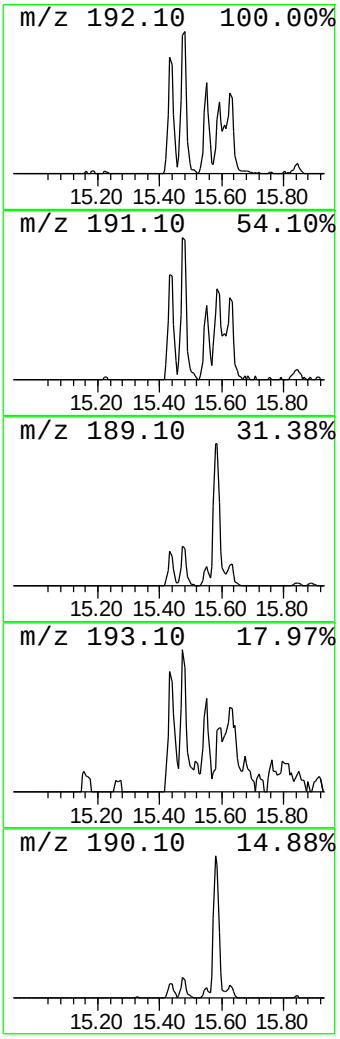
**********

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.43 | 3.85 ng | 87019 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 95 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

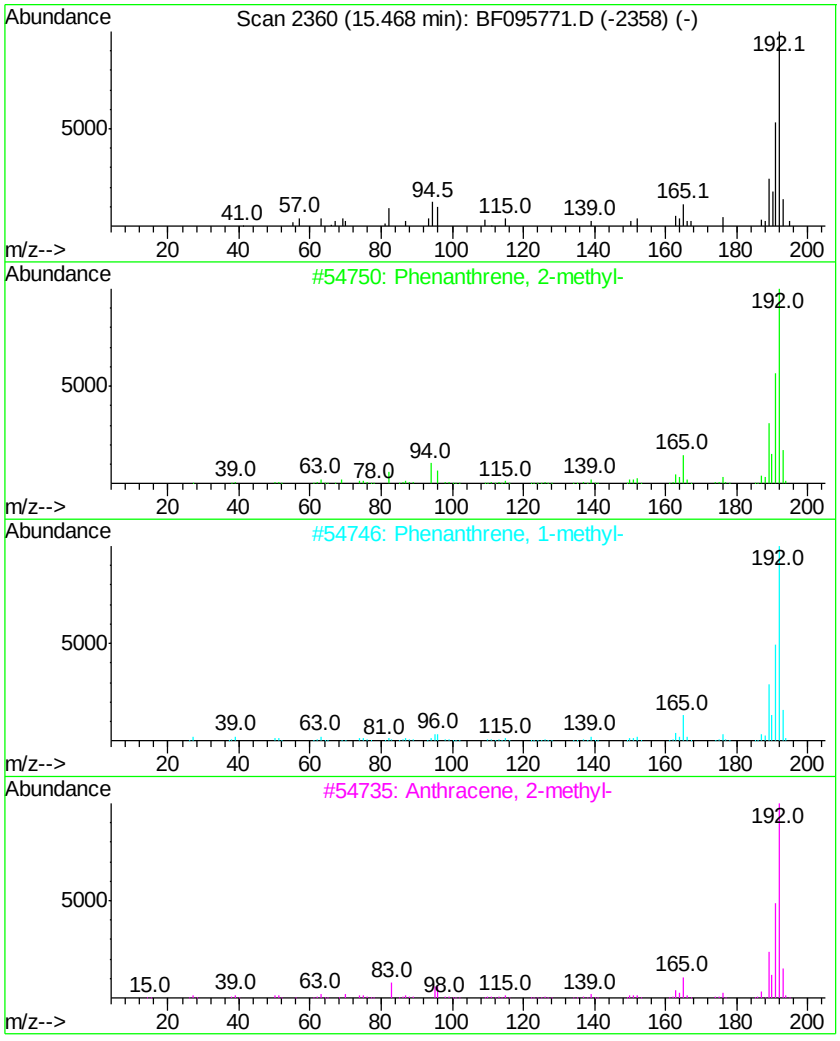
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

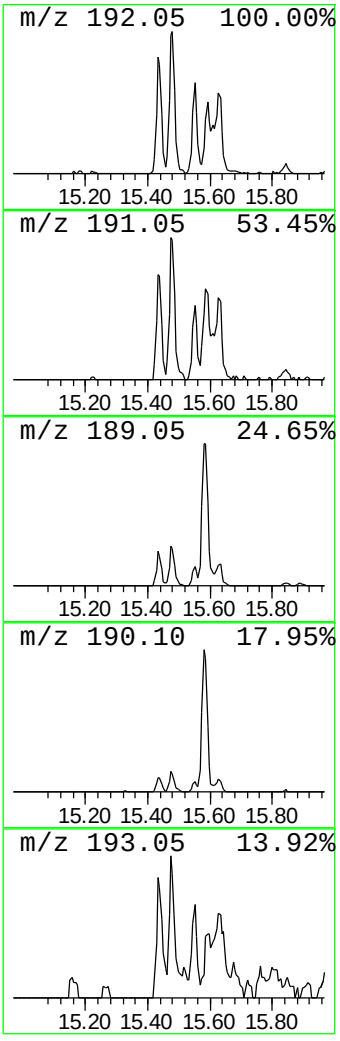
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.47 | 4.67 ng | 105612 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

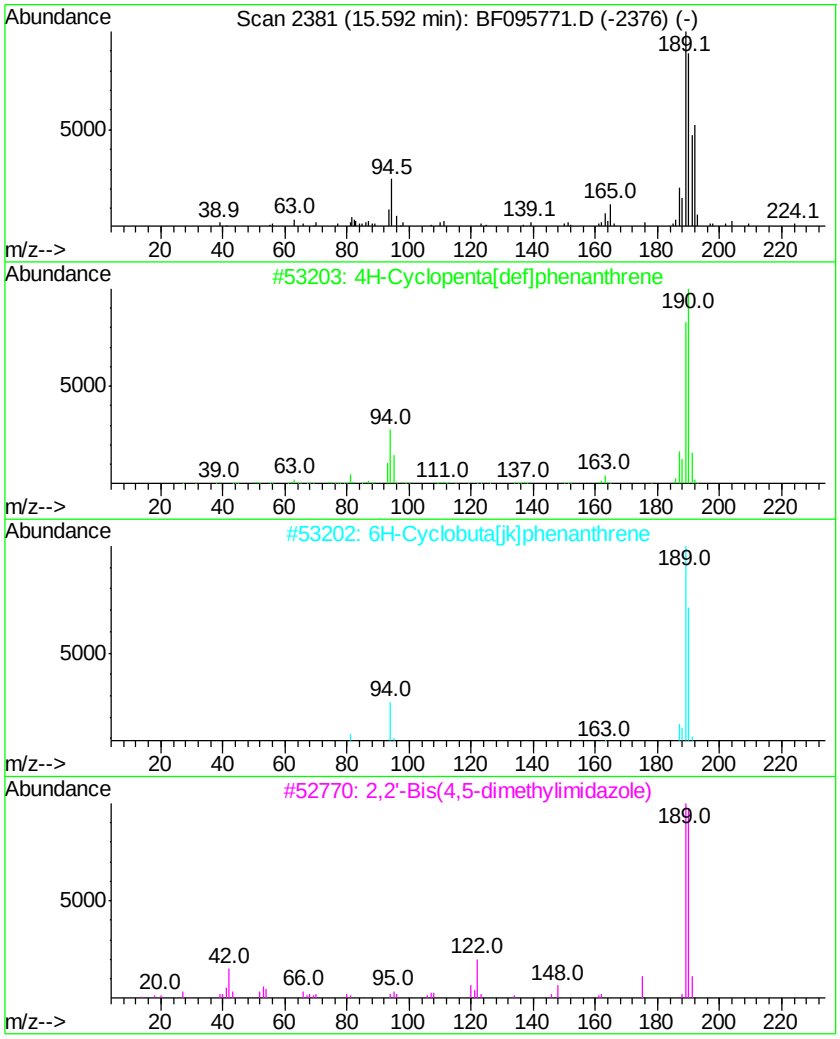
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

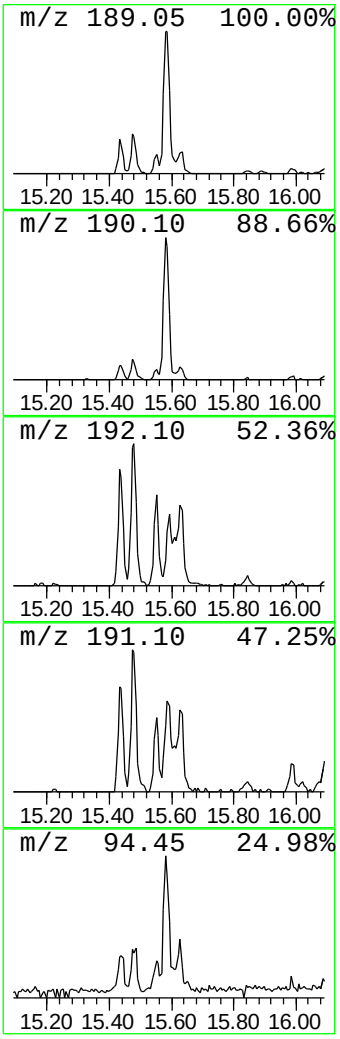
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.59 | 8.26 ng | 186768 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 91 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 40 |
| 4 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 38 |
| 5 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

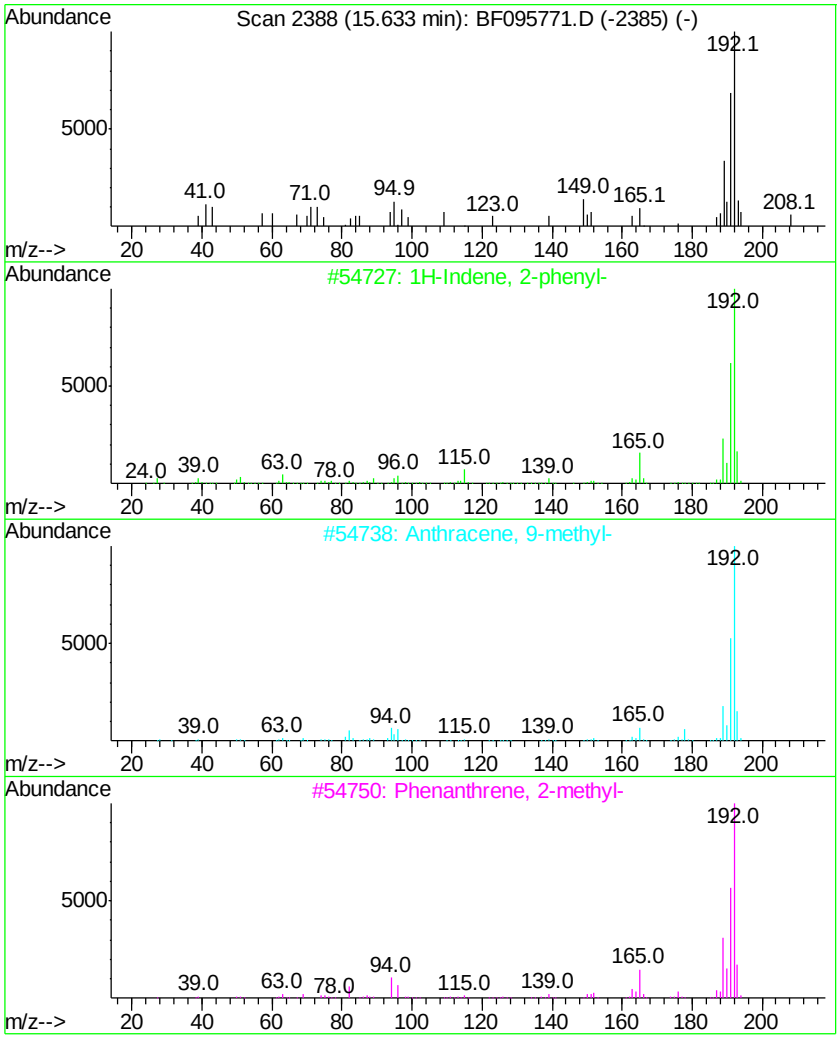
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

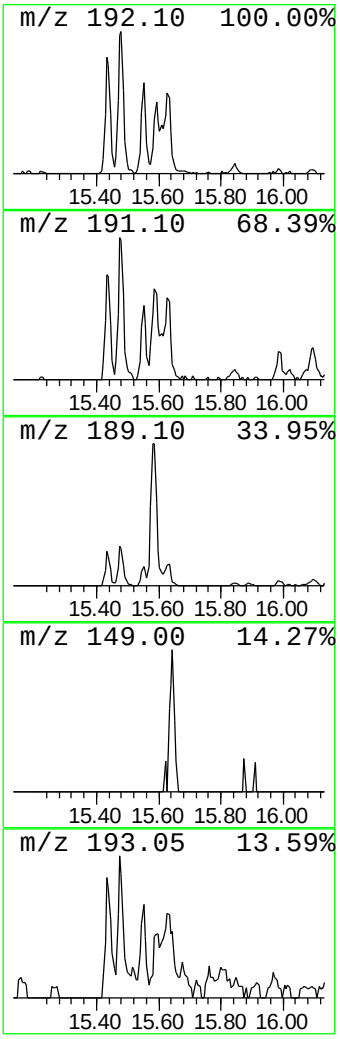
**********

Peak Number 9 1H-Indene, 2-phenyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.63 | 2.92 ng | 65902 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 70 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 68 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 64 |
| 4 | Propyne, 1,3-diphenyl- | 192 | C15H12 | 004980-70-5 | 62 |
| 5 | 2-Hydroxy-4-methyl-6-(2-thienyl)... | 192 | C9H8N2OS | 026963-45-1 | 58 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

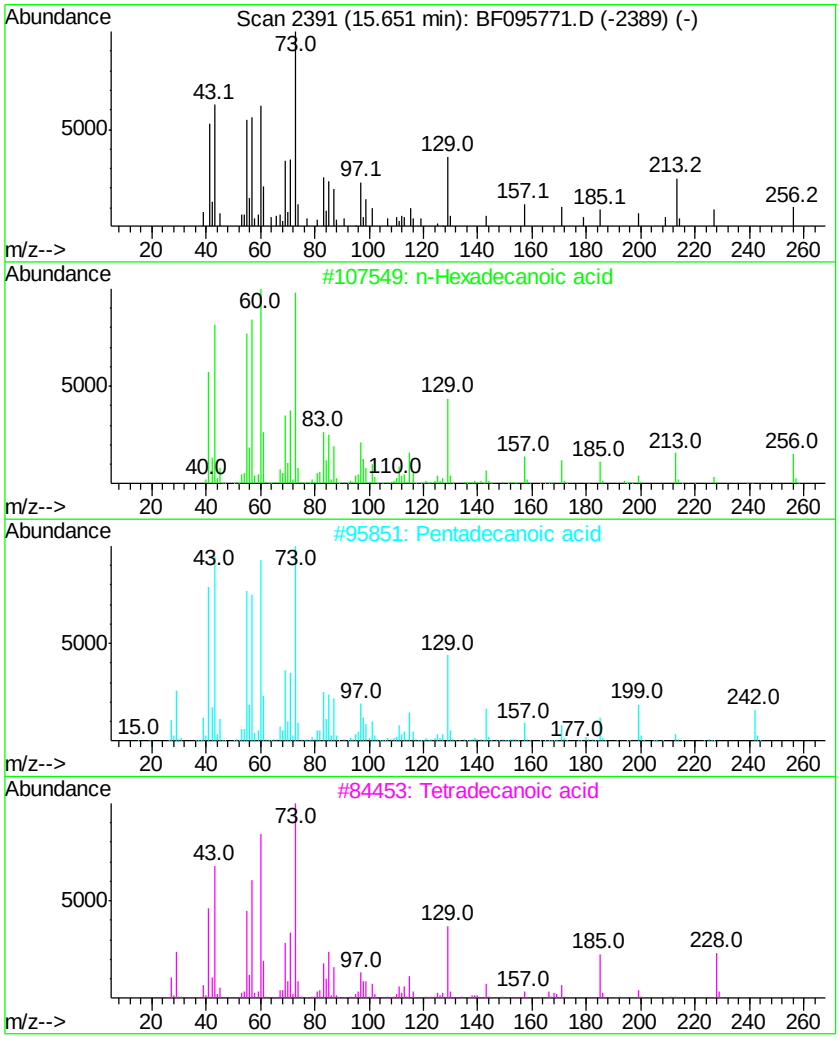
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

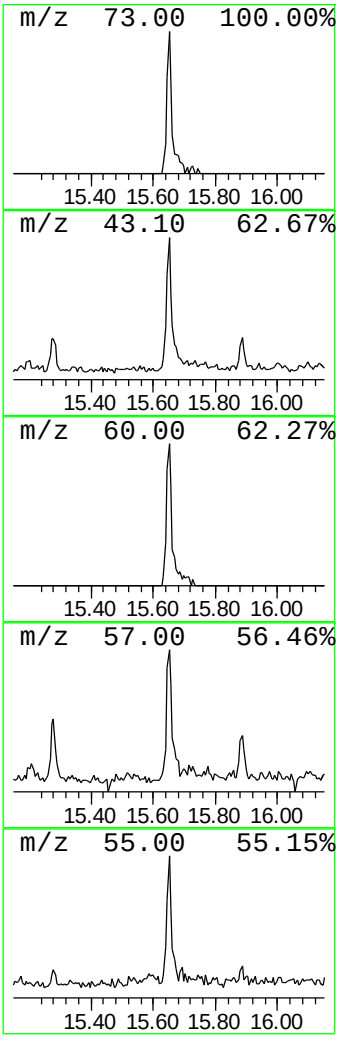
**********

Peak Number 10 n-Hexadecanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.65 | 4.65 ng | 105102 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 64 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 53 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 43 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 38 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

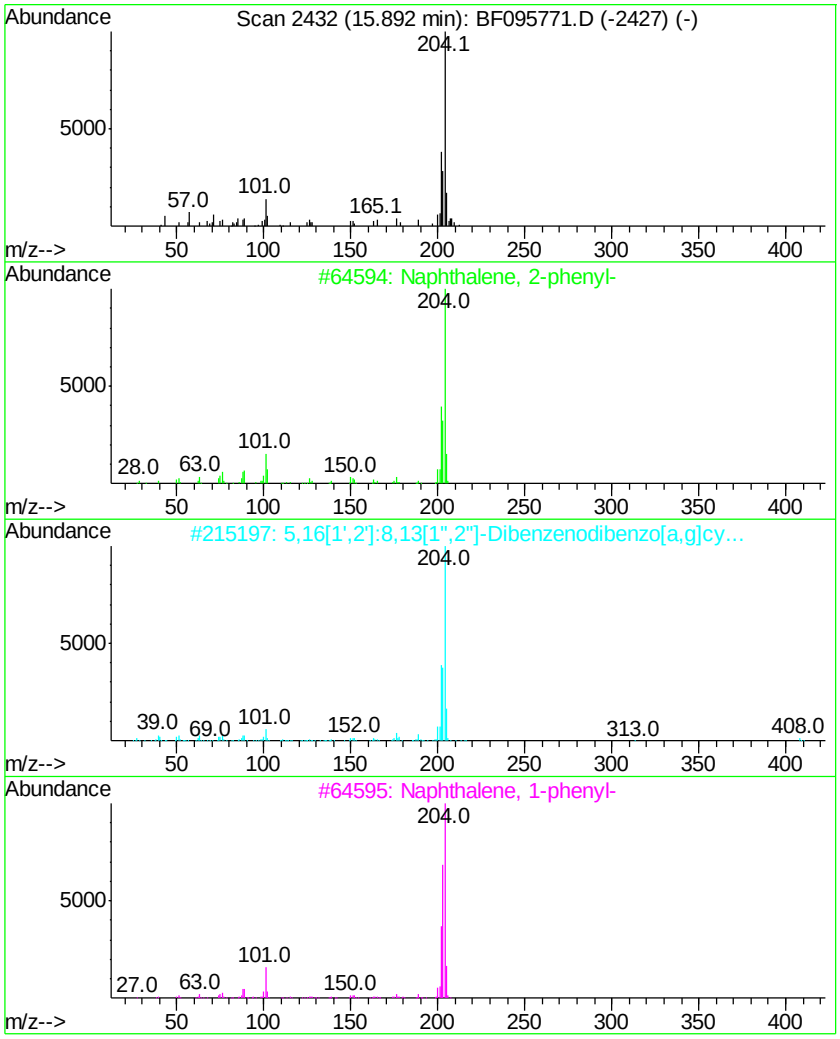
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

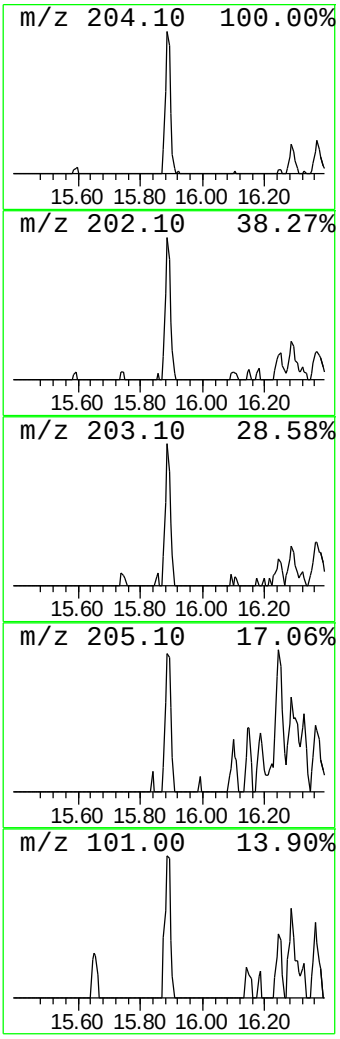
**********

Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.89 | 3.15 ng | 71239 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 87 |
| 3 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 78 |
| 4 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 62 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 62 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

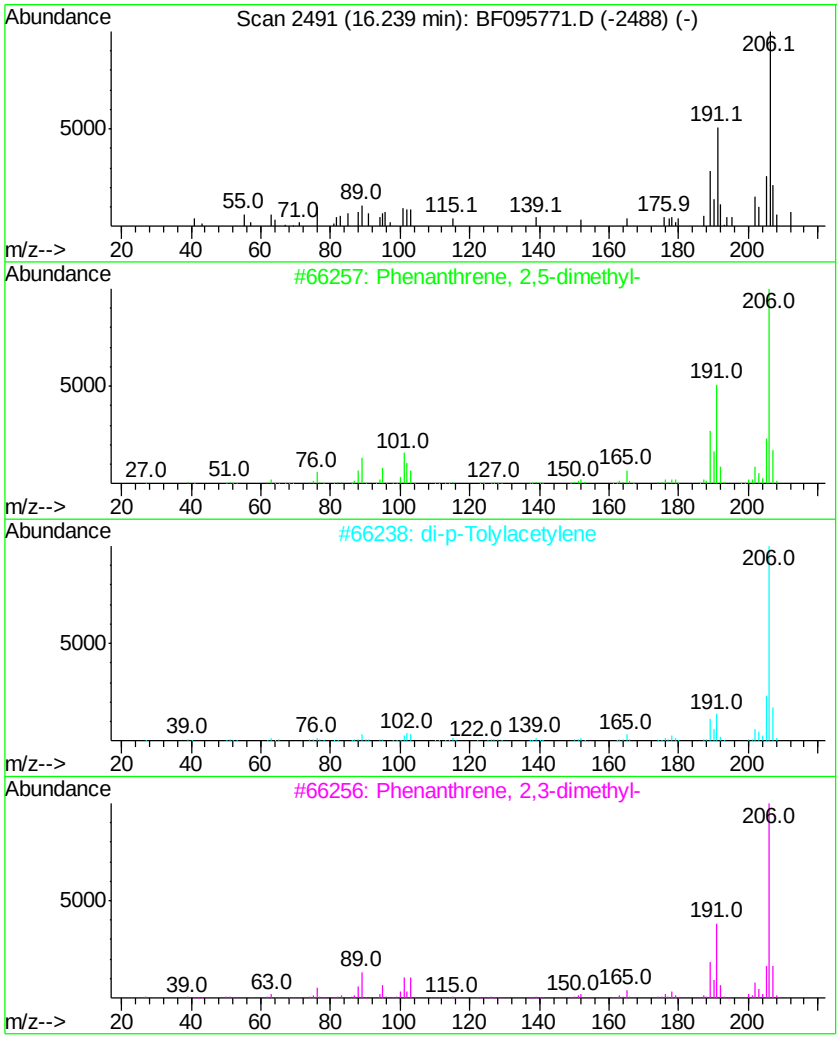
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

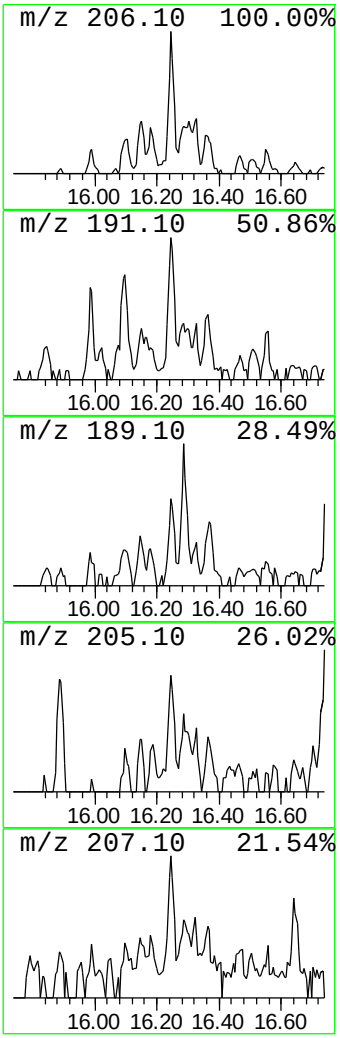
**********

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.24 | 2.63 ng | 59507 | Phenanthrene-d10 | 14.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 5 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

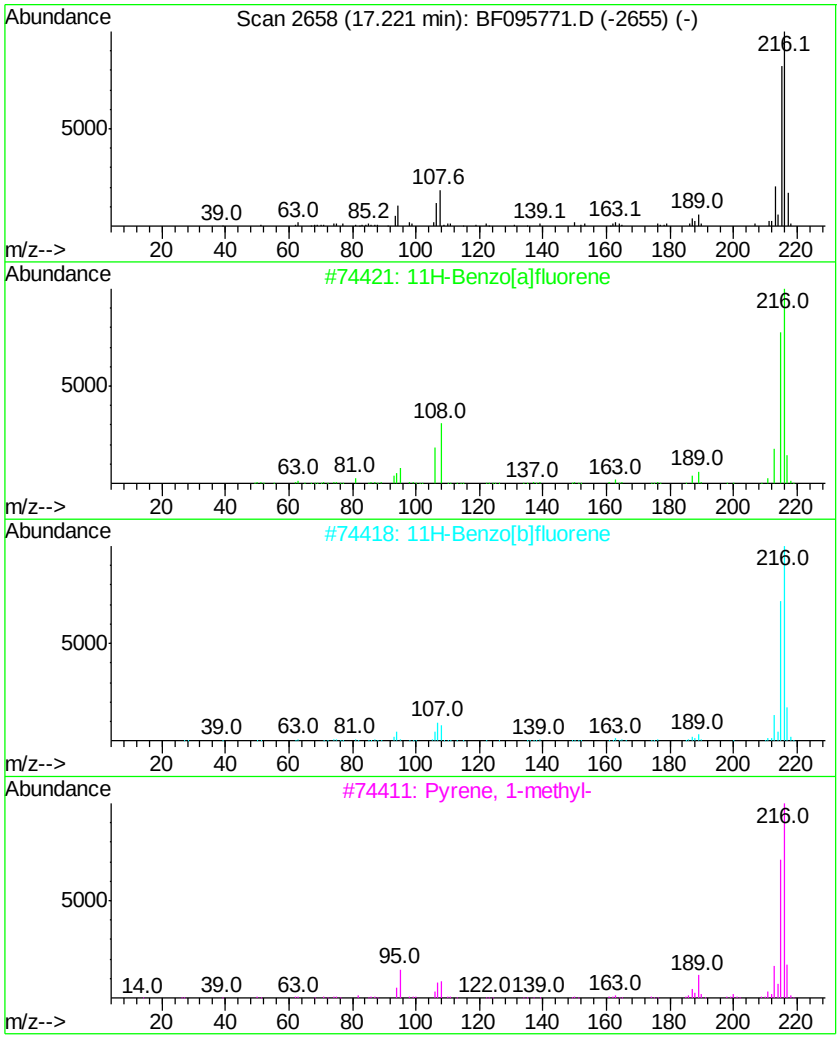
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

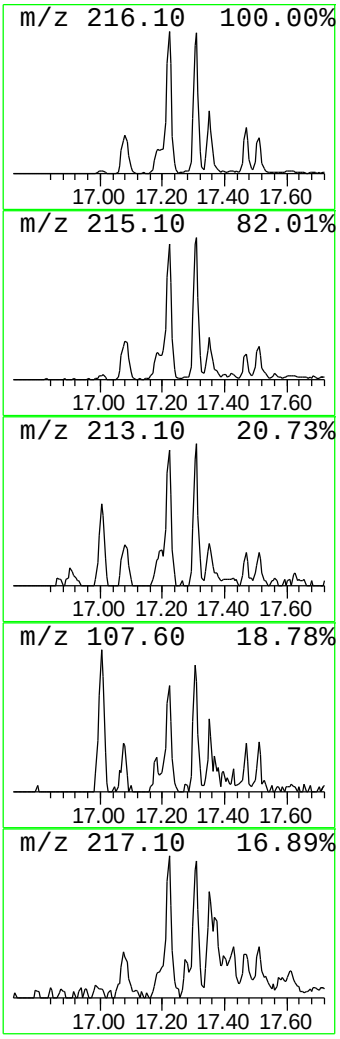
**********

Peak Number 13 11H-Benzo[a]fluorene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.22 | 4.05 ng | 169133 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 74 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 70 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

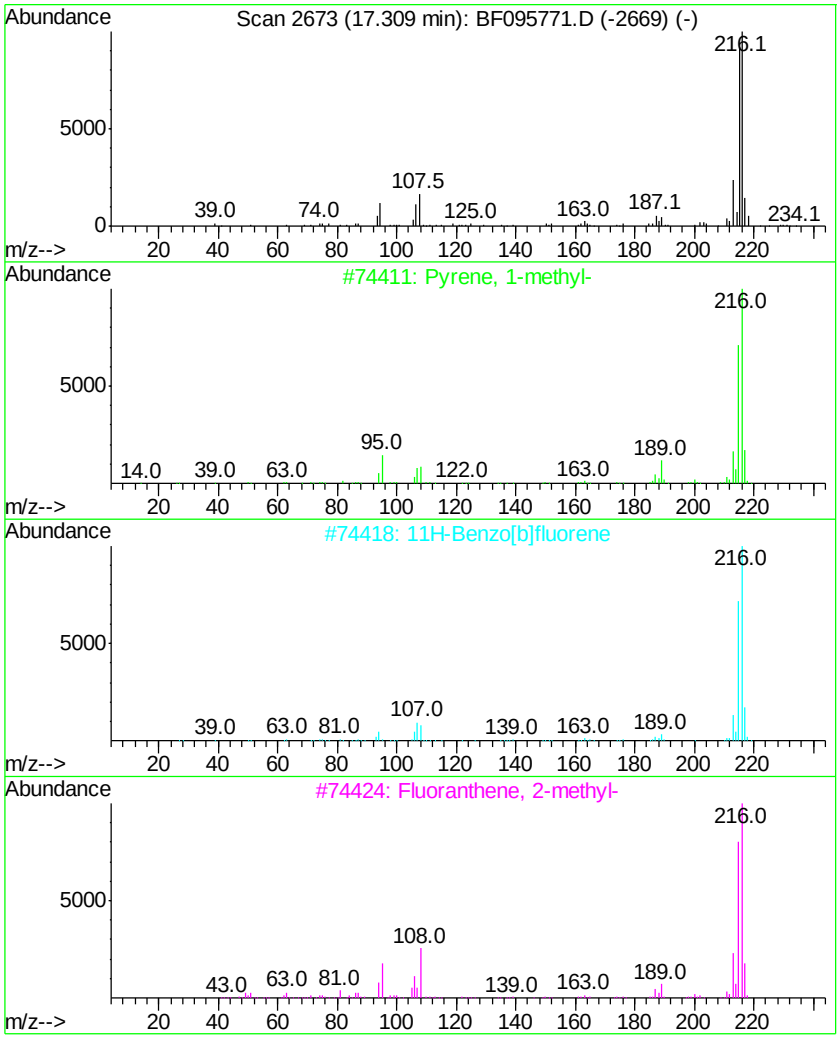
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

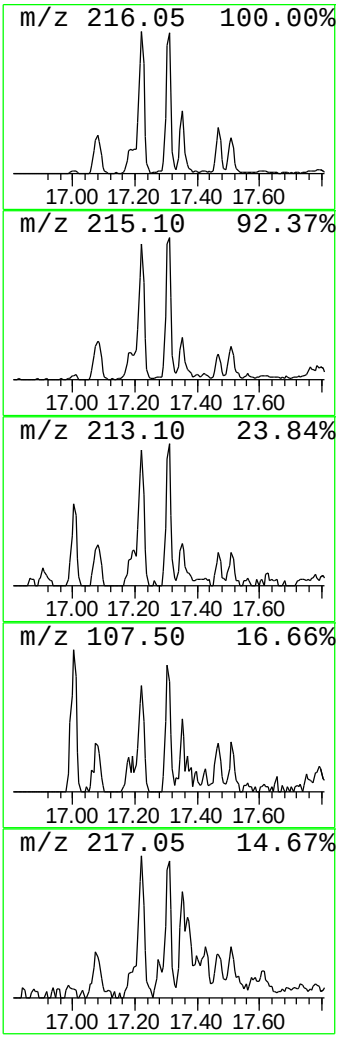
**********

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.31 | 4.21 ng | 175889 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 80 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 76 |



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Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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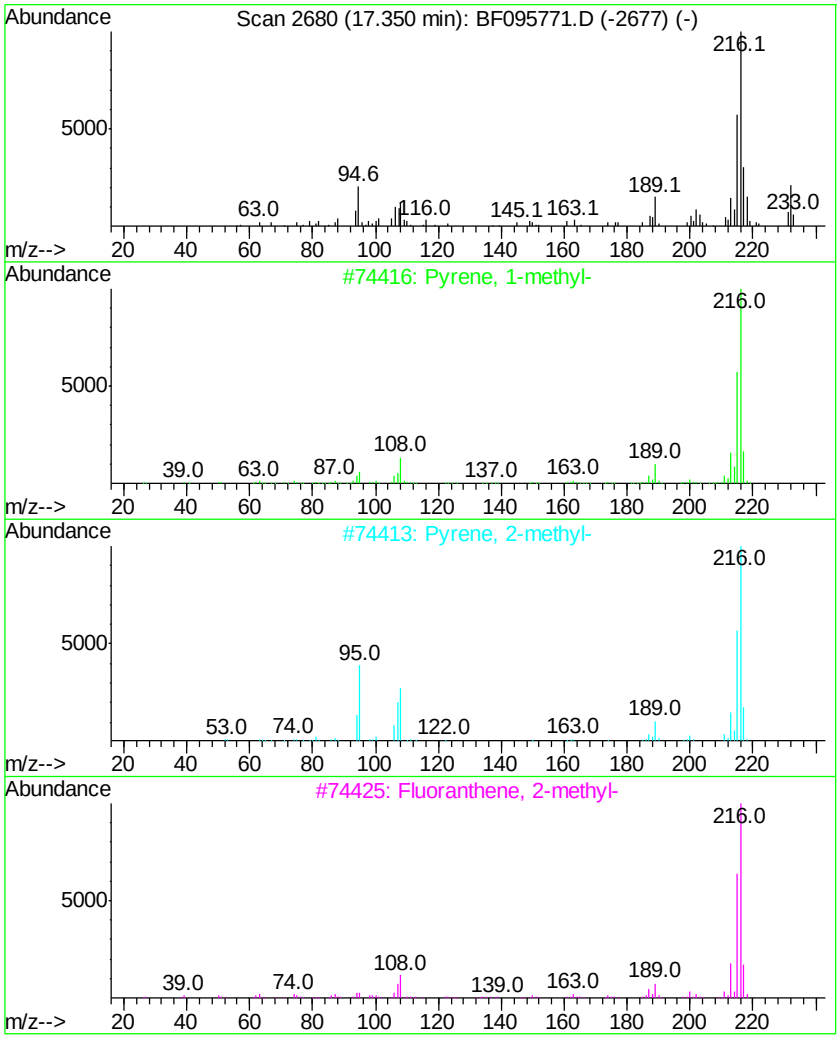
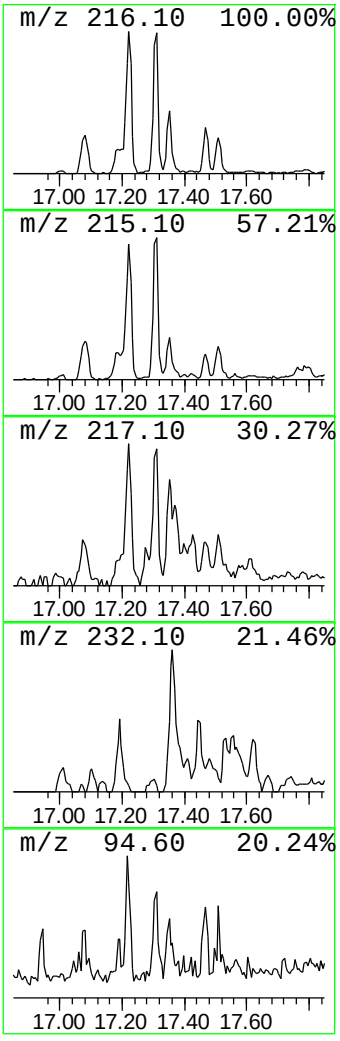
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.35 | 3.77 ng | 157226 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 90 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 60 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 58 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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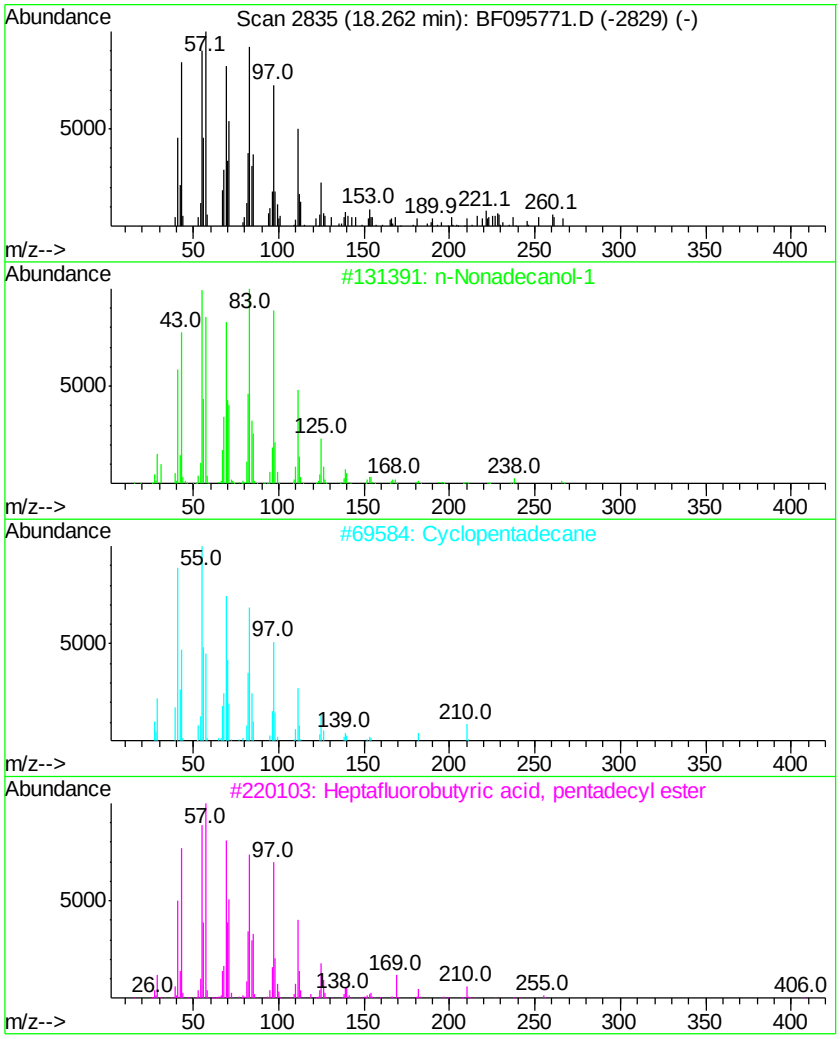
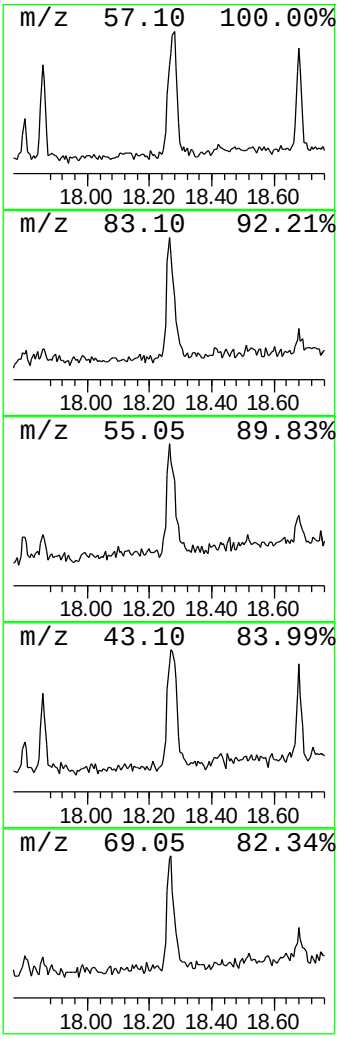
Peak Number 16 n-Nonadecanol-1 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.26 | 5.68 ng | 237058 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 95 |
| 2 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 94 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 4 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 5 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91 |



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Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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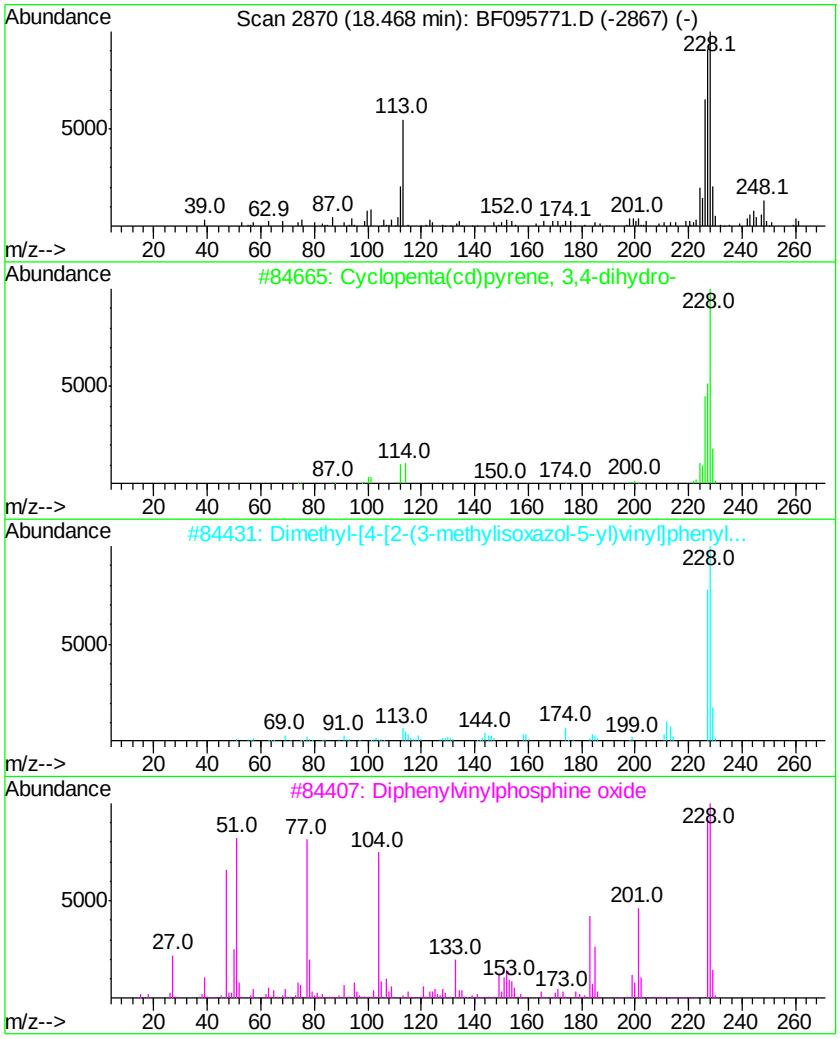
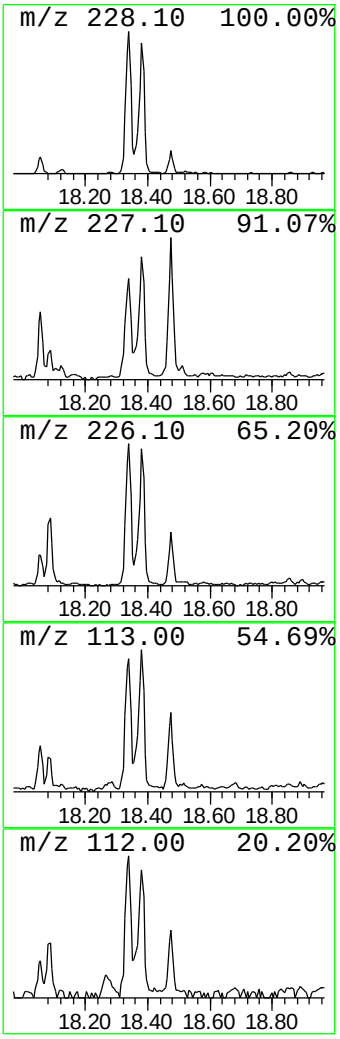
Peak Number 17 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.47 | 2.55 ng | 106281 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 50 |
| 2 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 49 |
| 3 | Diphenylvinylphosphine oxide | 228 | C14H13OP | 002096-78-8 | 46 |
| 4 | 1,3,5-Triazine-2(1H)-thione, 4-(... | 227 | C9H17N5S | 023613-02-7 | 46 |
| 5 | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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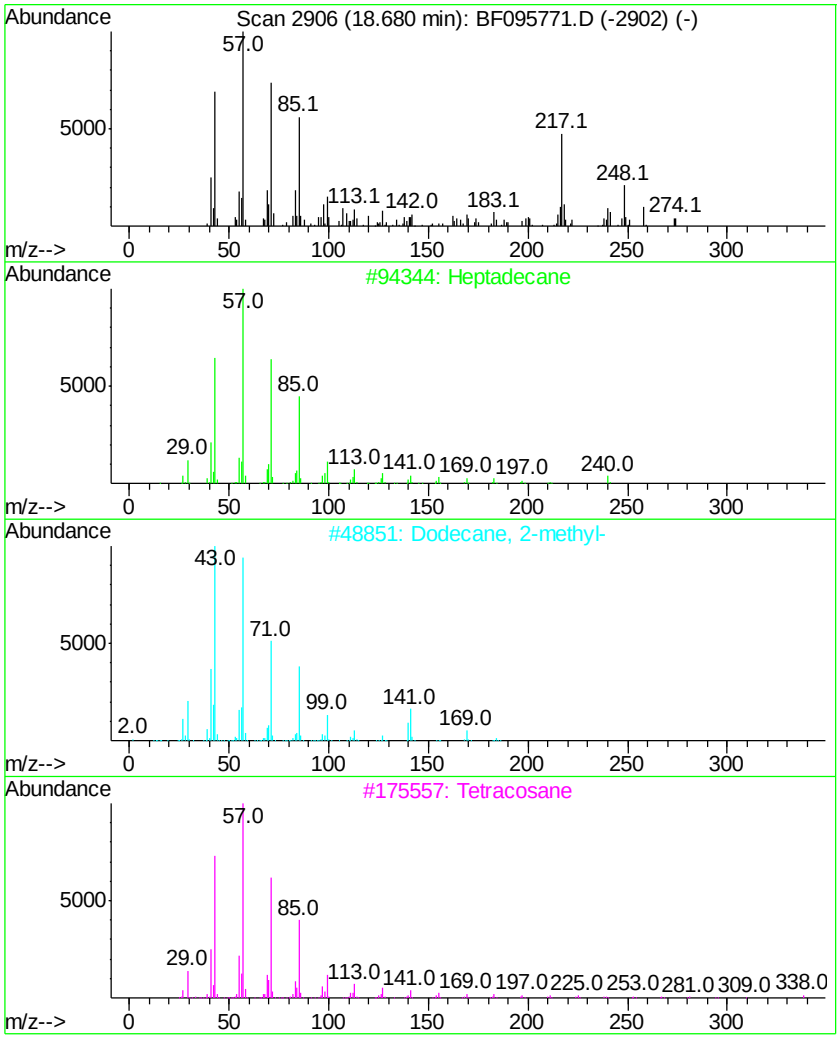
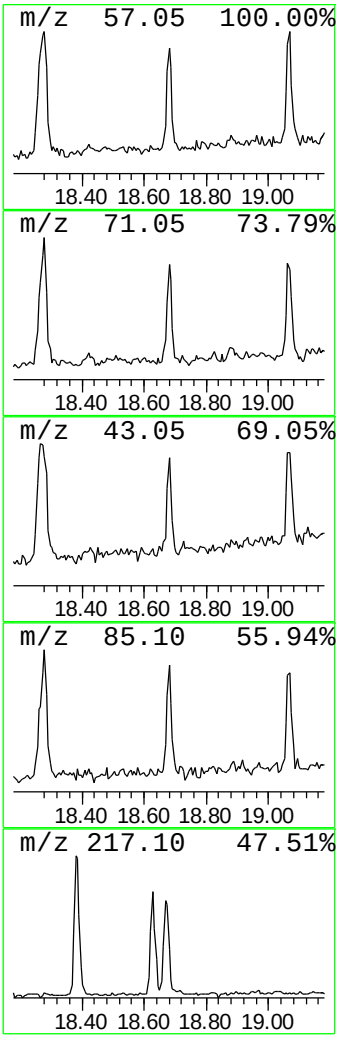
Peak Number 18 Heptadecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.68 | 2.26 ng | 94420 | Chrysene-d12 | 18.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 49 |
| 2 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 45 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 45 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 45 |
| 5 | Nonadecane | 268 | C19H40 | 000629-92-5 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060717\
Data File : BF095771.D
Acq On : 8 Jun 2017 5:23
Operator : SJ/MA
Sample : I3469-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3(0-2)20170603

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.59 | 7.8 | ng | 159012 | 1 | 7.39 | 407172 | 20.0 |
| unknown7.04 | 7.04 | 96.3 | ng | 1960560 | 1 | 7.39 | 407172 | 20.0 |
| Tridecane | 13.87 | 2.2 | ng | 49612 | 4 | 14.63 | 451982 | 20.0 |
| Phenanthrene, 1-m... | 15.43 | 3.9 | ng | 87019 | 4 | 14.63 | 451982 | 20.0 |
| Phenanthrene, 2-m... | 15.47 | 4.7 | ng | 105612 | 4 | 14.63 | 451982 | 20.0 |
| 4H-Cyclopenta[def... | 15.59 | 8.3 | ng | 186768 | 4 | 14.63 | 451982 | 20.0 |
| 1H-Indene, 2-phenyl- | 15.63 | 2.9 | ng | 65902 | 4 | 14.63 | 451982 | 20.0 |
| n-Hexadecanoic acid | 15.65 | 4.7 | ng | 105102 | 4 | 14.63 | 451982 | 20.0 |
| Naphthalene, 2-ph... | 15.89 | 3.1 | ng | 71239 | 4 | 14.63 | 451982 | 20.0 |
| Phenanthrene, 2,5... | 16.24 | 2.6 | ng | 59507 | 4 | 14.63 | 451982 | 20.0 |
| 11H-Benzo[a]fluorene | 17.22 | 4.0 | ng | 169133 | 5 | 18.35 | 834990 | 20.0 |
| Pyrene, 1-methyl- | 17.31 | 4.2 | ng | 175889 | 5 | 18.35 | 834990 | 20.0 |
| 11H-Benzo[b]fluorene | 17.35 | 3.8 | ng | 157226 | 5 | 18.35 | 834990 | 20.0 |
| n-Nonadecanol-1 | 18.26 | 5.7 | ng | 237058 | 5 | 18.35 | 834990 | 20.0 |
| Cyclopenta(cd)pyr... | 18.47 | 2.5 | ng | 106281 | 5 | 18.35 | 834990 | 20.0 |
| Heptadecane | 18.68 | 2.3 | ng | 94420 | 5 | 18.35 | 834990 | 20.0 |