LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

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-BM103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM042581.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.452 | 379 | 385 | 397 | rVB | 70139 | 111778 | 5.39% | 0.607% |
| 2 | 7.081 | 656 | 662 | 676 | rBV | 63654 | 108220 | 5.22% | 0.587% |
| 3 | 7.916 | 797 | 804 | 814 | rBV | 213440 | 335598 | 16.20% | 1.821% |
| 4 | 9.116 | 1002 | 1008 | 1018 | rVB | 34769 | 65766 | 3.17% | 0.357% |
| 5 | 10.734 | 1276 | 1283 | 1288 | rBV | 259597 | 429924 | 20.75% | 2.333% |
| 6 | 10.786 | 1288 | 1292 | 1302 | rVB | 64585 | 107329 | 5.18% | 0.582% |
| 7 | 12.392 | 1560 | 1565 | 1571 | rVB | 28991 | 43746 | 2.11% | 0.237% |
| 8 | 12.610 | 1596 | 1602 | 1610 | rBV | 23915 | 39425 | 1.90% | 0.214% |
| 9 | 13.186 | 1694 | 1700 | 1710 | rVB | 108804 | 151946 | 7.33% | 0.825% |
| 10 | 13.880 | 1811 | 1818 | 1823 | rBV4 | 12766 | 24157 | 1.17% | 0.131% |
| 11 | 14.569 | 1925 | 1935 | 1940 | rBV | 382972 | 551103 | 26.60% | 2.991% |
| 12 | 14.633 | 1940 | 1946 | 1954 | rVB | 246784 | 357802 | 17.27% | 1.942% |
| 13 | 14.869 | 1979 | 1986 | 1991 | rBV | 15905 | 23633 | 1.14% | 0.128% |
| 14 | 14.969 | 1995 | 2003 | 2008 | rBV | 58989 | 90672 | 4.38% | 0.492% |
| 15 | 15.616 | 2106 | 2113 | 2119 | rBV | 133359 | 191319 | 9.23% | 1.038% |
| 16 | 15.774 | 2136 | 2140 | 2144 | rVB | 20331 | 27441 | 1.32% | 0.149% |
| 17 | 15.898 | 2158 | 2161 | 2168 | rVB | 19155 | 25971 | 1.25% | 0.141% |
| 18 | 16.063 | 2179 | 2189 | 2199 | rBV3 | 90699 | 155851 | 7.52% | 0.846% |
| 19 | 16.610 | 2271 | 2282 | 2287 | rBV3 | 18262 | 44892 | 2.17% | 0.244% |
| 20 | 16.980 | 2338 | 2345 | 2351 | rBV | 22315 | 36976 | 1.78% | 0.201% |
| 21 | 17.063 | 2355 | 2359 | 2364 | rVB2 | 15119 | 23669 | 1.14% | 0.128% |
| 22 | 17.139 | 2367 | 2372 | 2378 | rBV | 65796 | 88357 | 4.26% | 0.479% |
| 23 | 17.321 | 2397 | 2403 | 2406 | rBV | 454148 | 648368 | 31.29% | 3.518% |
| 24 | 17.363 | 2406 | 2410 | 2418 | rVV | 1335269 | 1763780 | 85.12% | 9.571% |
| 25 | 17.457 | 2418 | 2426 | 2432 | rVV | 262708 | 409900 | 19.78% | 2.224% |
| 26 | 17.521 | 2434 | 2437 | 2443 | rVB2 | 16565 | 27949 | 1.35% | 0.152% |
| 27 | 17.715 | 2464 | 2470 | 2471 | rBV | 27048 | 36226 | 1.75% | 0.197% |
| 28 | 17.745 | 2471 | 2475 | 2485 | rVV | 102473 | 161165 | 7.78% | 0.875% |
| 29 | 17.833 | 2485 | 2490 | 2497 | rVV3 | 15464 | 33045 | 1.59% | 0.179% |
| 30 | 17.898 | 2497 | 2501 | 2510 | rVB3 | 19555 | 34526 | 1.67% | 0.187% |
| 31 | 18.045 | 2521 | 2526 | 2530 | rVB2 | 11413 | 21197 | 1.02% | 0.115% |
| 32 | 18.186 | 2542 | 2550 | 2555 | rBV2 | 109870 | 263548 | 12.72% | 1.430% |
| 33 | 18.239 | 2555 | 2559 | 2567 | rVV | 126559 | 188868 | 9.12% | 1.025% |
| 34 | 18.321 | 2568 | 2573 | 2577 | rVV2 | 43842 | 63852 | 3.08% | 0.347% |
| 35 | 18.392 | 2578 | 2585 | 2588 | rVV2 | 178812 | 301295 | 14.54% | 1.635% |
| 36 | 18.421 | 2588 | 2590 | 2600 | rVB | 60801 | 83570 | 4.03% | 0.454% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

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-BM103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 18.692 | 2631 | 2636 | 2641 | rBV | 75712 | 106463 | 5.14% | 0.578% |
| 38 | 18.757 | 2641 | 2647 | 2651 | rVV | 73607 | 105372 | 5.09% | 0.572% |
| 39 | 18.933 | 2673 | 2677 | 2681 | rVB | 18967 | 25328 | 1.22% | 0.137% |
| 40 | 19.021 | 2688 | 2692 | 2695 | rVB3 | 18034 | 22354 | 1.08% | 0.121% |
| 41 | 19.098 | 2701 | 2705 | 2709 | rBV3 | 34337 | 50463 | 2.44% | 0.274% |
| 42 | 19.262 | 2730 | 2733 | 2738 | rVB2 | 31207 | 43501 | 2.10% | 0.236% |
| 43 | 19.380 | 2747 | 2753 | 2759 | rBV | 1612915 | 2071993 | 100.00% | 11.244% |
| 44 | 19.445 | 2760 | 2764 | 2769 | rBV4 | 36201 | 72818 | 3.51% | 0.395% |
| 45 | 19.621 | 2791 | 2794 | 2797 | rBV | 26293 | 33727 | 1.63% | 0.183% |
| 46 | 19.709 | 2803 | 2809 | 2811 | rBV2 | 242313 | 386374 | 18.65% | 2.097% |
| 47 | 19.745 | 2811 | 2815 | 2821 | rVV | 1378964 | 1742551 | 84.10% | 9.456% |
| 48 | 19.804 | 2822 | 2825 | 2830 | rVB2 | 43203 | 59018 | 2.85% | 0.320% |
| 49 | 19.933 | 2840 | 2847 | 2853 | rBV2 | 208805 | 337117 | 16.27% | 1.829% |
| 50 | 19.992 | 2854 | 2857 | 2862 | rVV | 46035 | 62985 | 3.04% | 0.342% |
| 51 | 20.056 | 2863 | 2868 | 2875 | rVV4 | 59846 | 139736 | 6.74% | 0.758% |
| 52 | 20.233 | 2894 | 2898 | 2903 | rVB2 | 160047 | 214166 | 10.34% | 1.162% |
| 53 | 20.333 | 2911 | 2915 | 2918 | rBV | 134623 | 171533 | 8.28% | 0.931% |
| 54 | 20.392 | 2922 | 2925 | 2927 | rVV | 59074 | 69838 | 3.37% | 0.379% |
| 55 | 20.421 | 2927 | 2930 | 2934 | rVB | 69833 | 81053 | 3.91% | 0.440% |
| 56 | 20.527 | 2945 | 2948 | 2952 | rBV | 44223 | 62906 | 3.04% | 0.341% |
| 57 | 20.574 | 2954 | 2956 | 2960 | rVB | 50234 | 56747 | 2.74% | 0.308% |
| 58 | 21.145 | 3050 | 3053 | 3056 | rBV2 | 109207 | 146323 | 7.06% | 0.794% |
| 59 | 21.221 | 3064 | 3066 | 3071 | rBV2 | 66905 | 98382 | 4.75% | 0.534% |
| 60 | 21.498 | 3107 | 3113 | 3117 | rBV2 | 807742 | 1687311 | 81.43% | 9.156% |
| 61 | 21.539 | 3117 | 3120 | 3125 | rVB | 615951 | 766586 | 37.00% | 4.160% |
| 62 | 21.656 | 3137 | 3140 | 3144 | rBV | 155538 | 197937 | 9.55% | 1.074% |
| 63 | 23.180 | 3393 | 3399 | 3404 | rBV | 368174 | 902431 | 43.55% | 4.897% |
| 64 | 23.703 | 3484 | 3488 | 3494 | rBV | 185820 | 328665 | 15.86% | 1.784% |
| 65 | 23.815 | 3502 | 3507 | 3514 | rVB | 351930 | 646632 | 31.21% | 3.509% |
| 66 | 23.921 | 3520 | 3525 | 3531 | rBV | 350878 | 664425 | 32.07% | 3.606% |

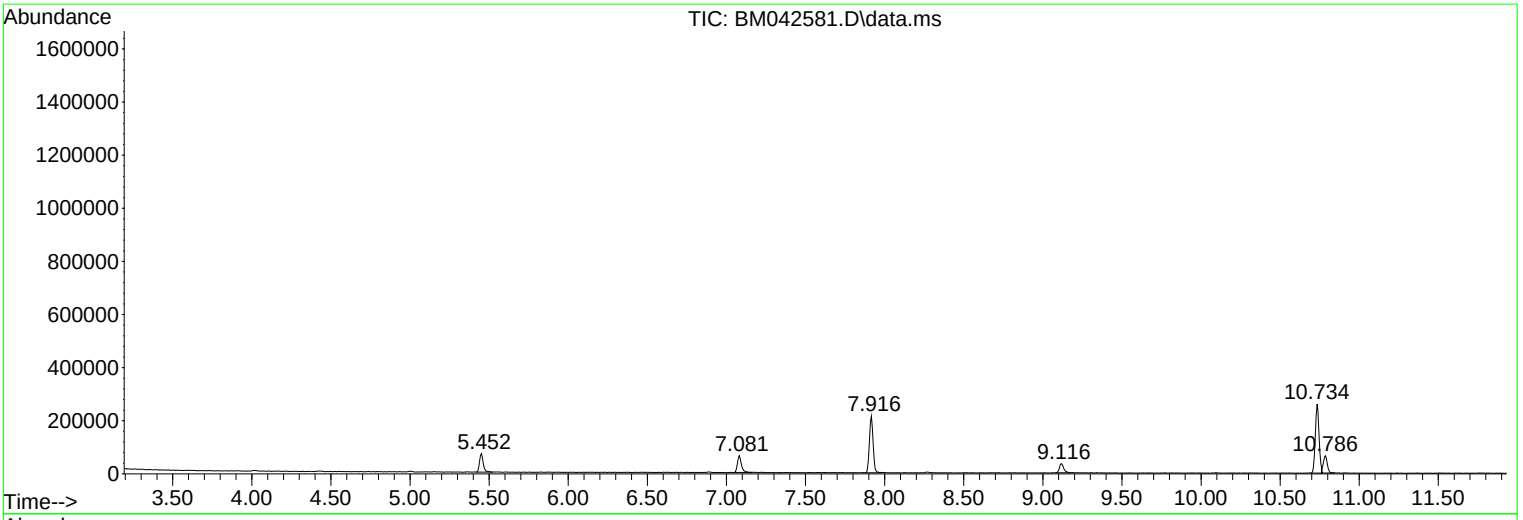
Sum of corrected areas: 18427599

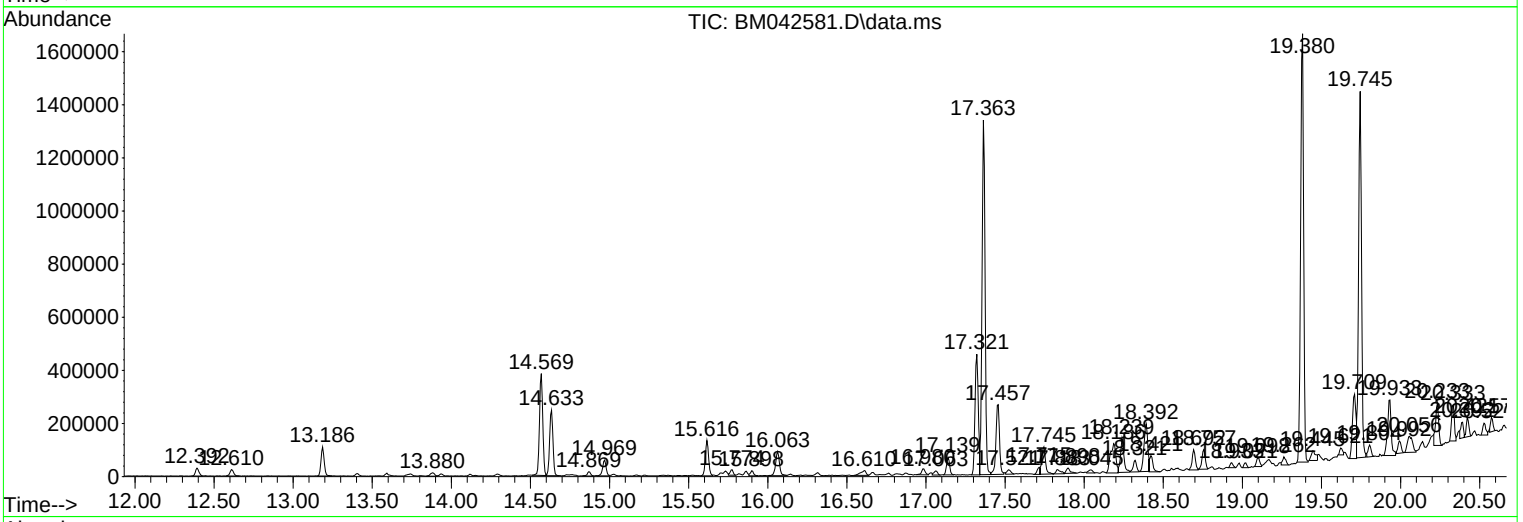
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

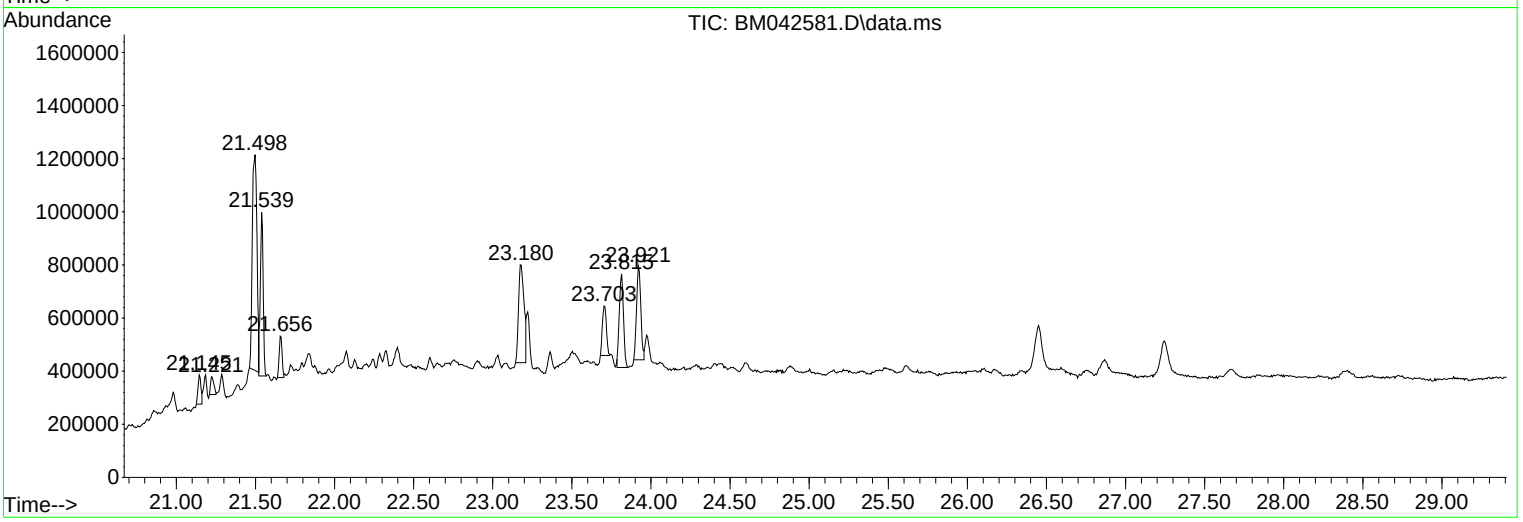
**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.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\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

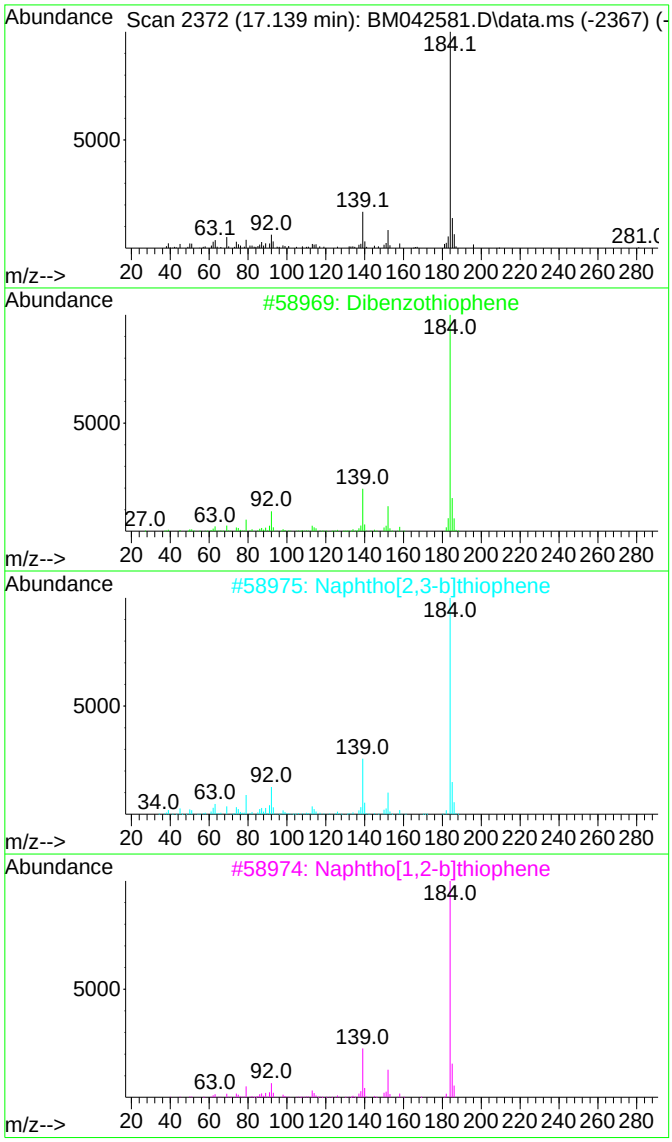
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

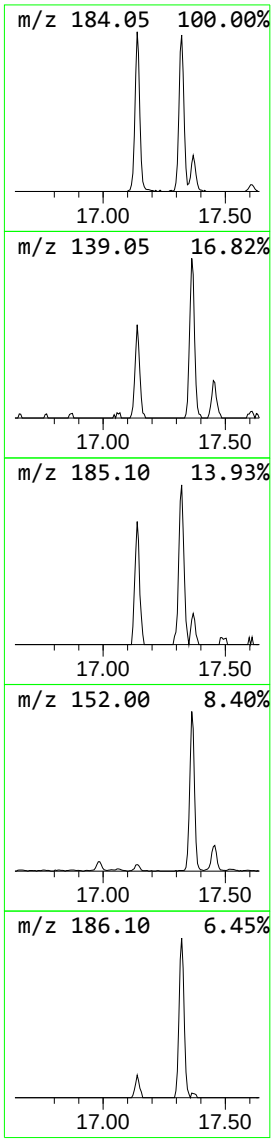
**********

Peak Number 2 Dibenzothiophene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.139 | 2.73 ng | 88357 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 3 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 94 |
| 4 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 94 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

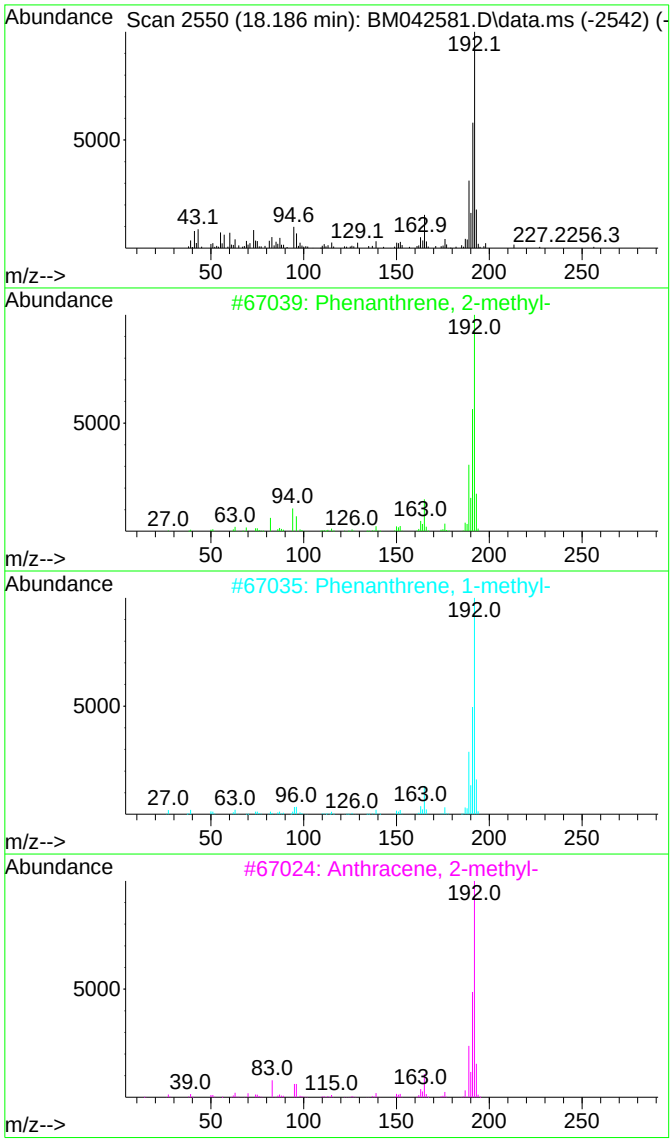
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

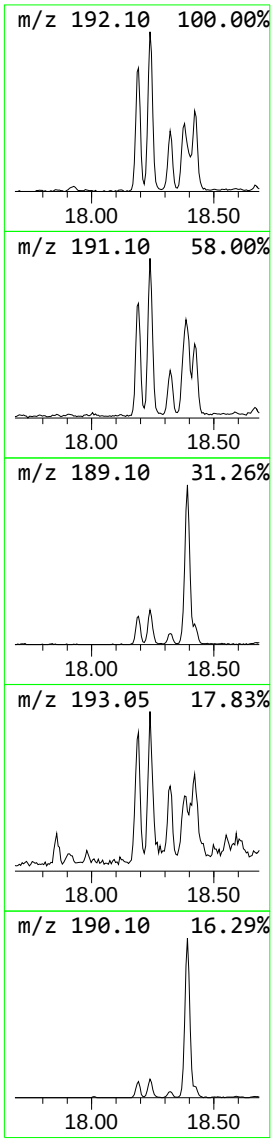
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.186 | 8.13 ng | 263548 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

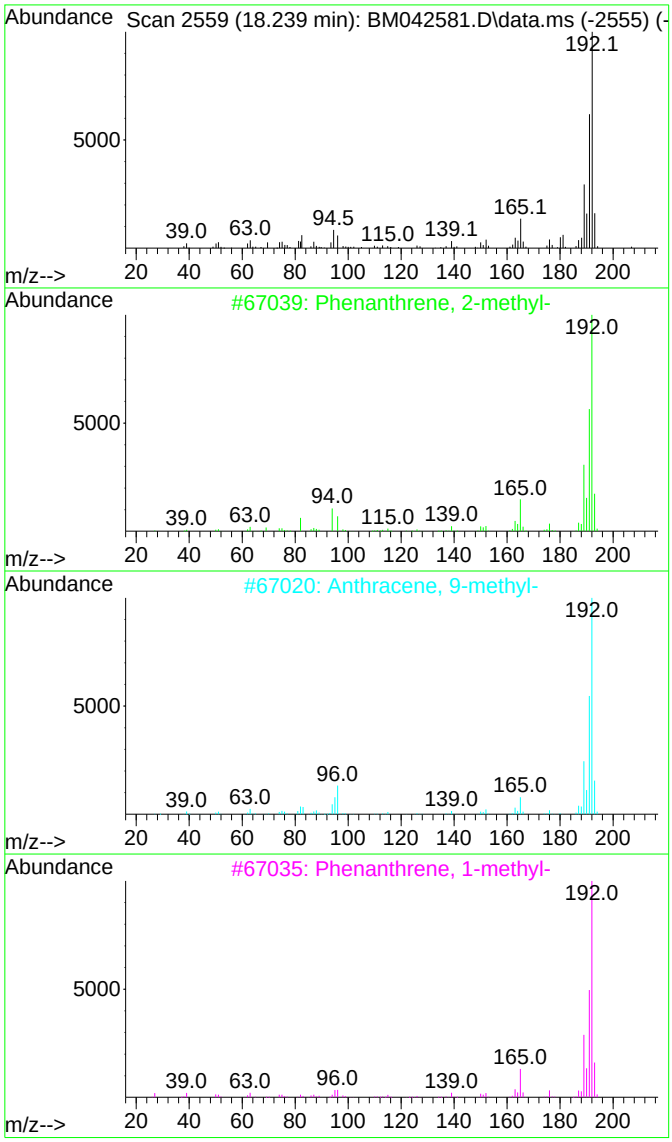
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

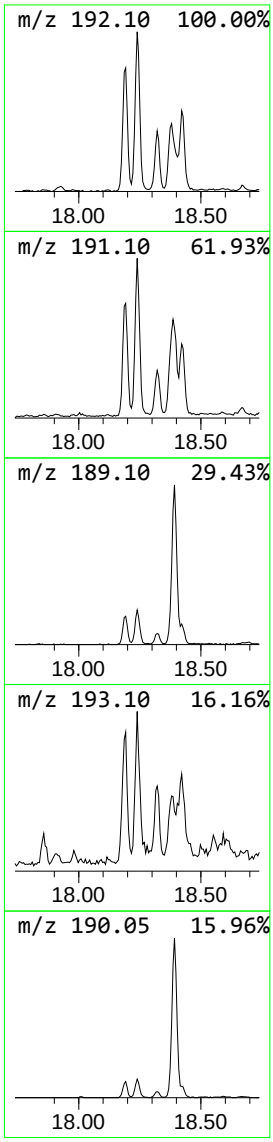
**********

Peak Number 4 Anthracene, 9-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.239 | 5.83 ng | 188868 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 93 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

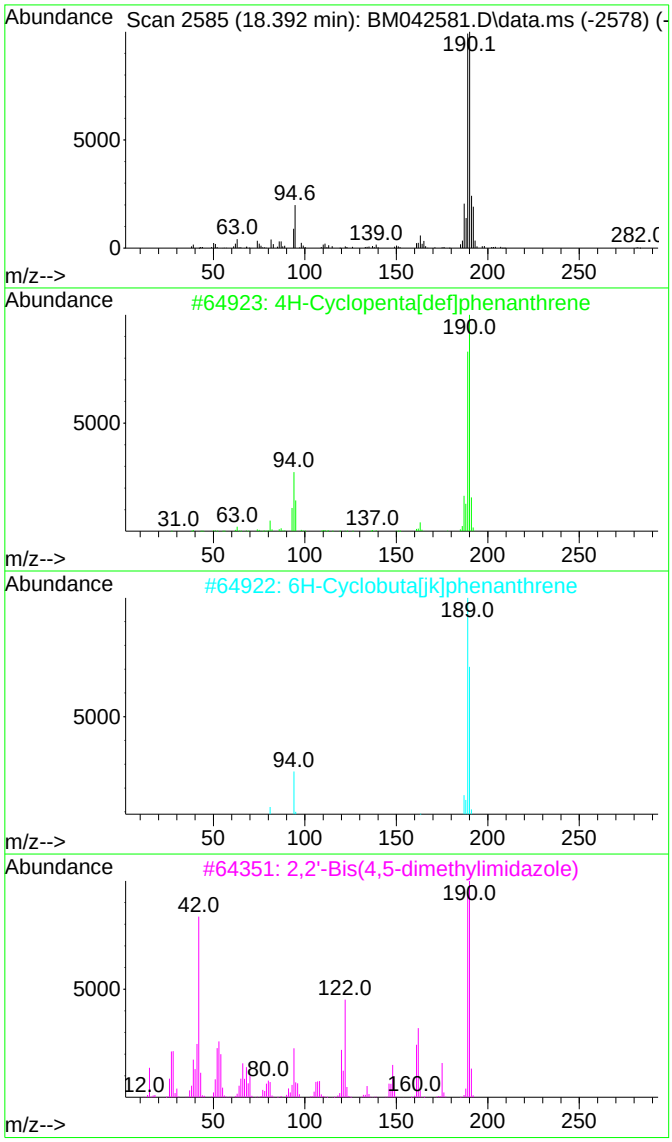
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

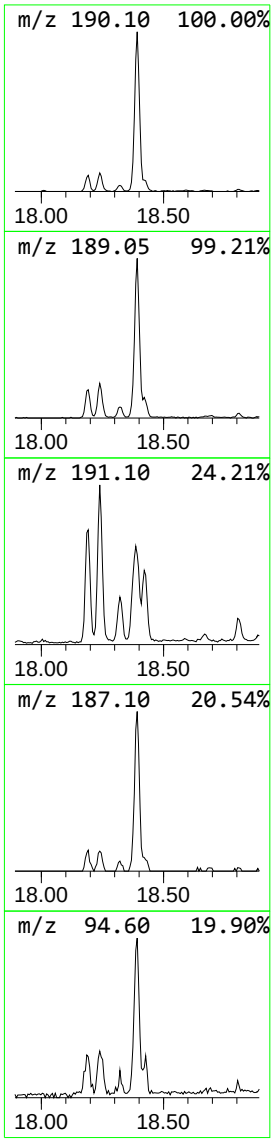
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.392 | 9.29 ng | 301295 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 42 |
| 4 | Cyclohexanone, 2-(2-furanylmethy... | 190 | C12H14O2 | 056053-07-7 | 27 |
| 5 | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4 | 004923-55-1 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

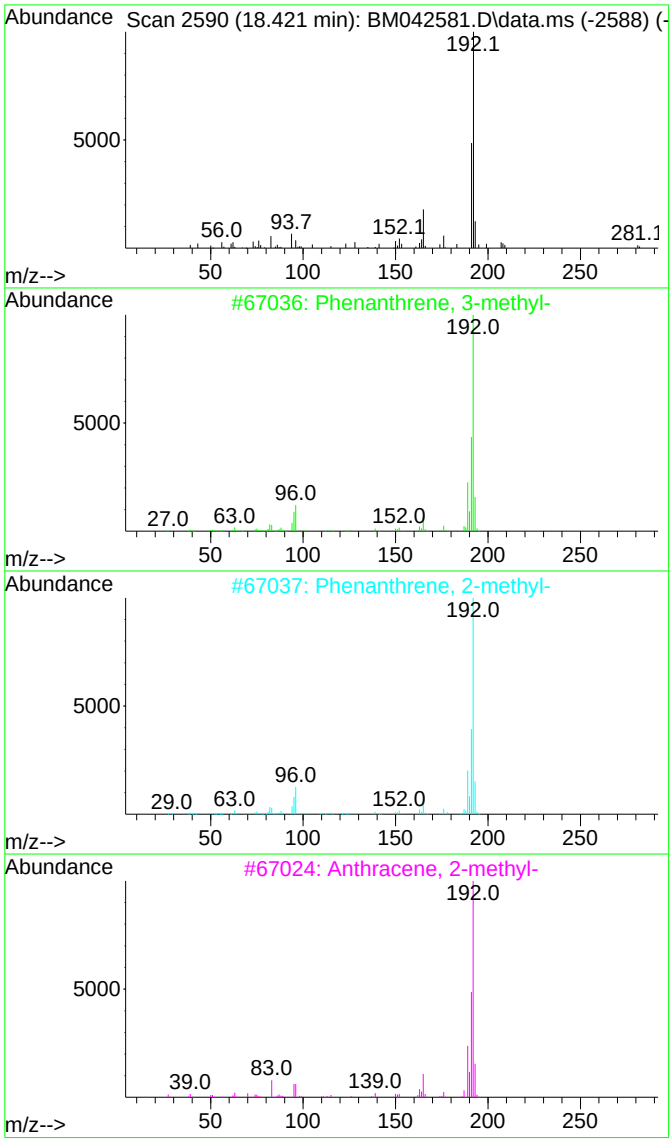
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

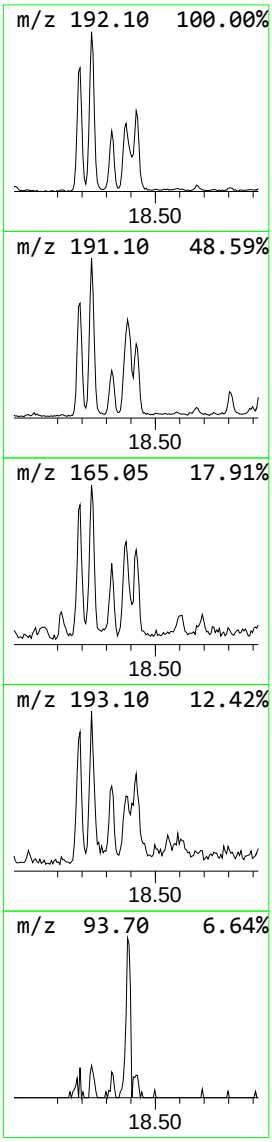
**********

Peak Number 6 Phenanthrene, 3-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.421 | 2.58 ng | 83570 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 91 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 86 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 86 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

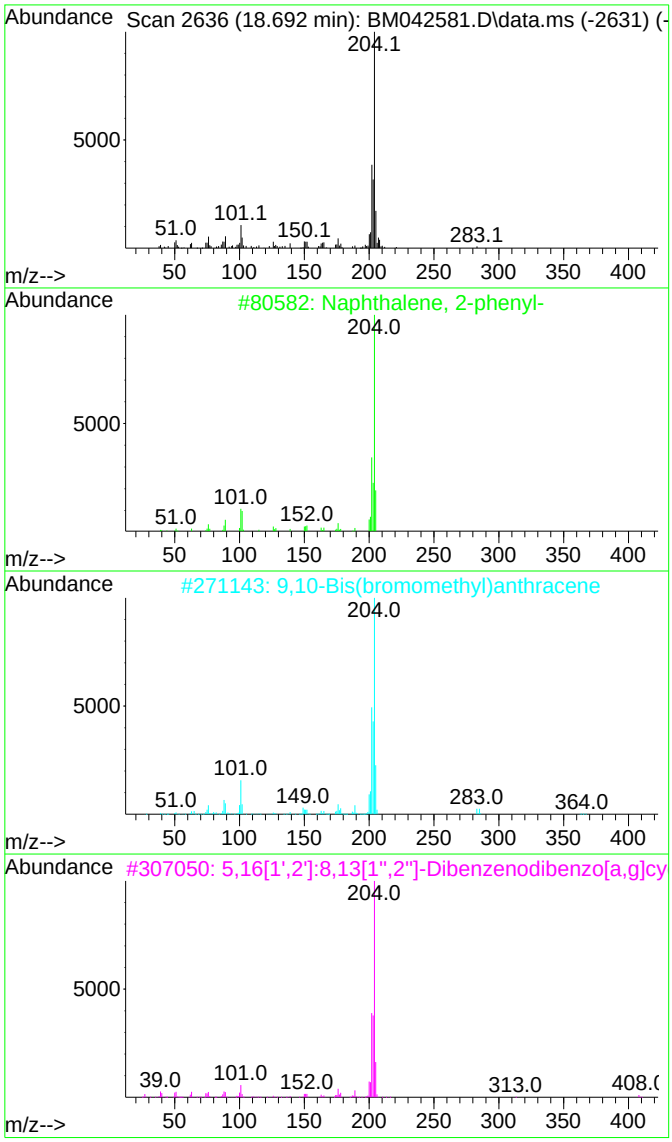
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

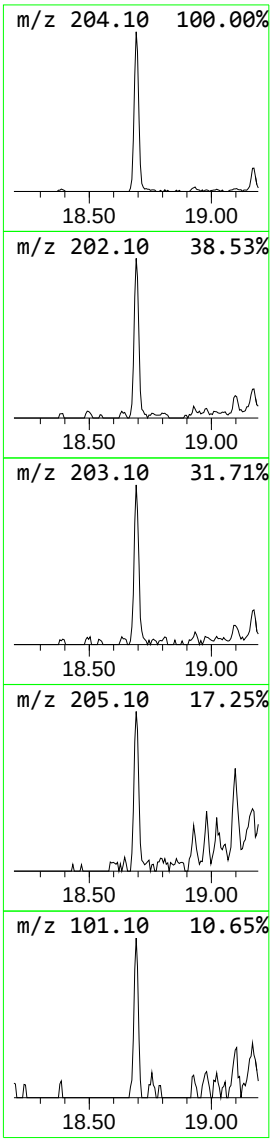
**********

Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.692 | 3.28 ng | 106463 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 2 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 86 |
| 3 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 70 |
| 5 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 55 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

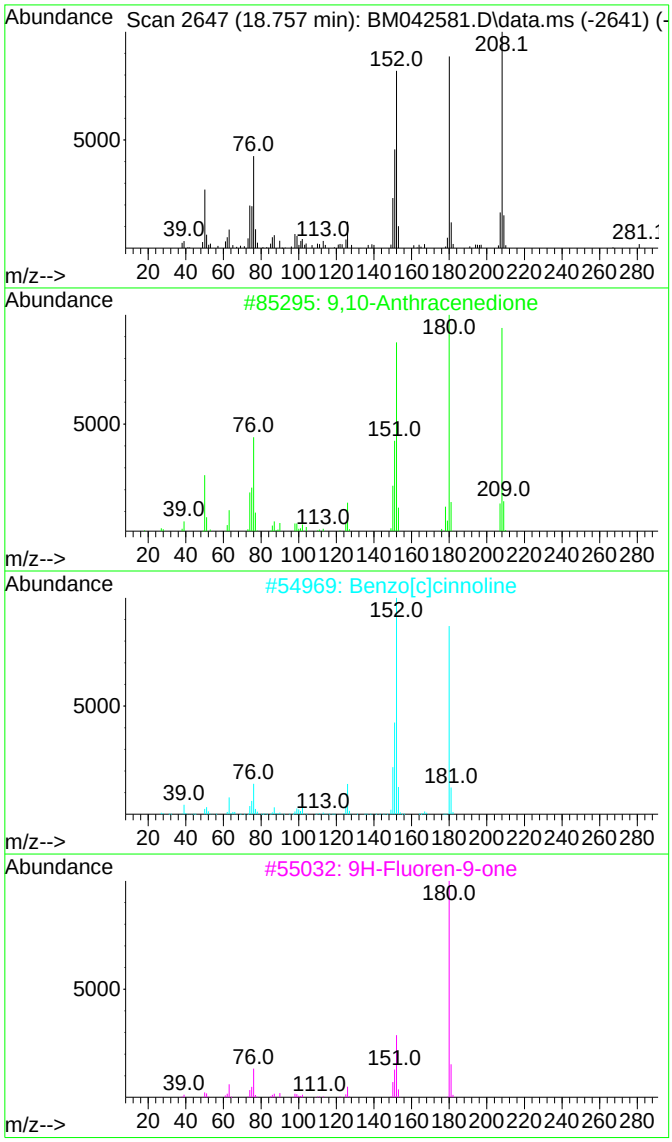
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

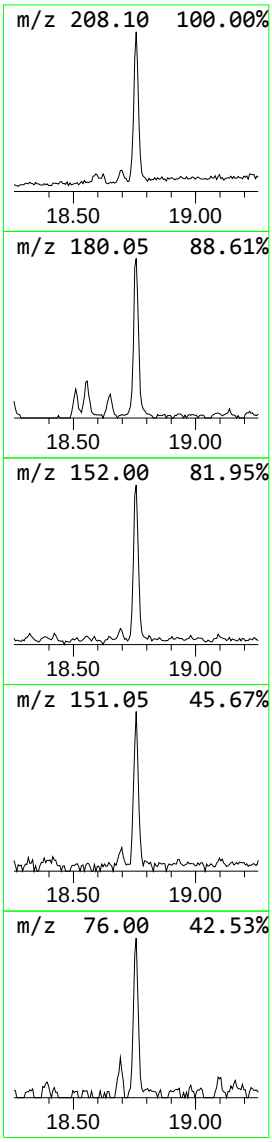
**********

Peak Number 8 9,10-Anthracenedione Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.756 | 3.25 ng | 105372 | Phenanthrene-d10 | 17.321 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99 |
| 2 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 91 |
| 3 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 83 |
| 4 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 60 |
| 5 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 55 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

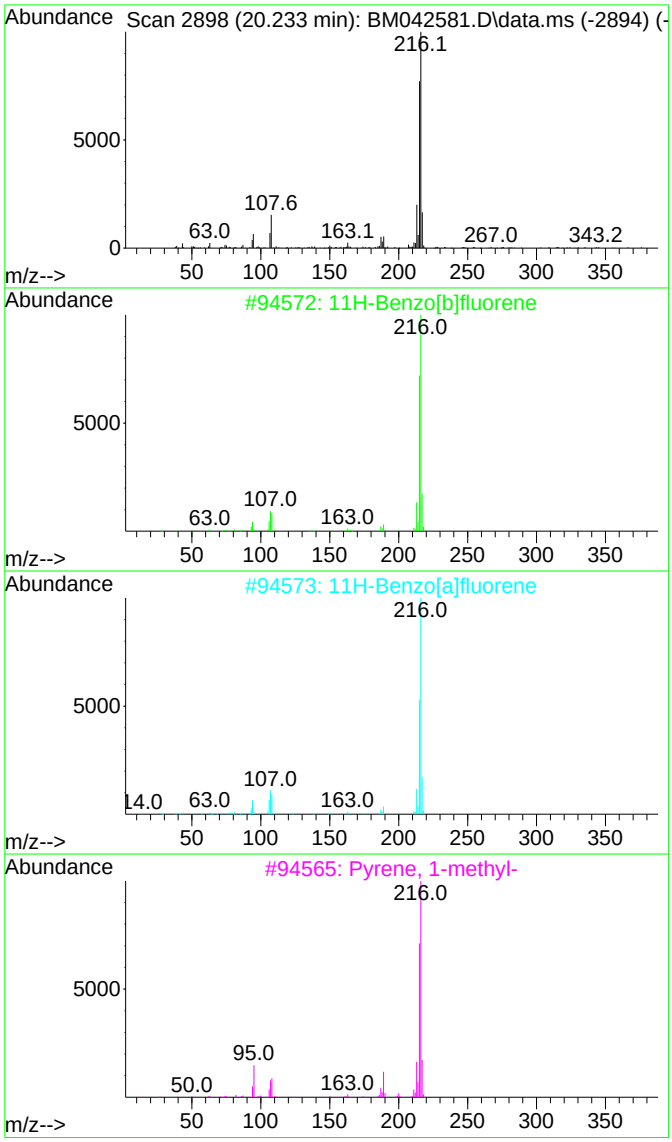
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

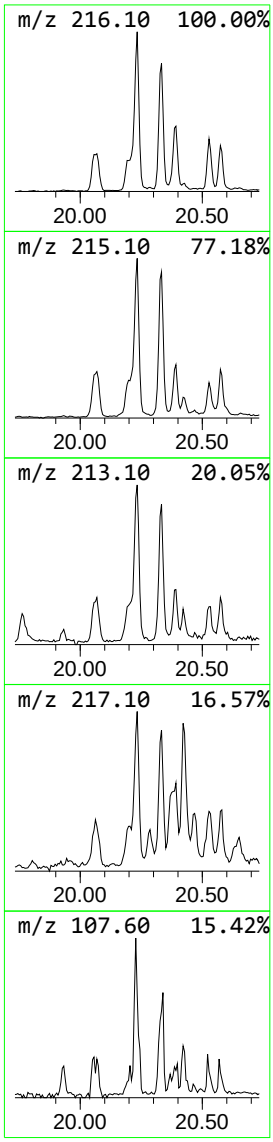
**********

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.233 | 2.54 ng | 214166 | Chrysene-d12 | 21.503 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 83 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

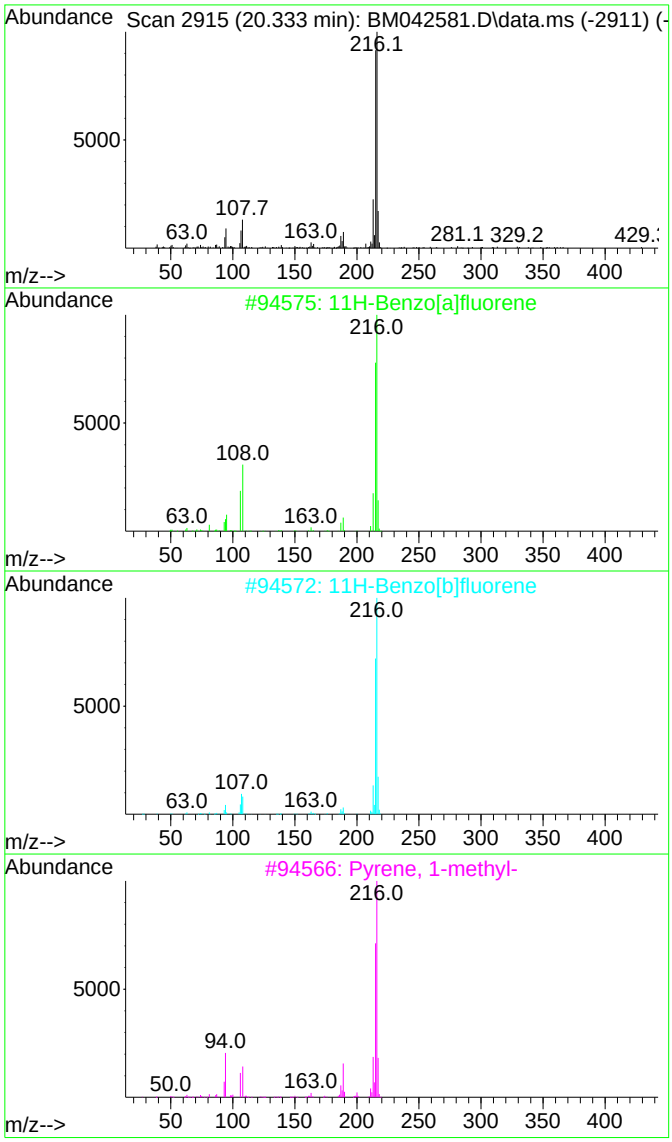
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

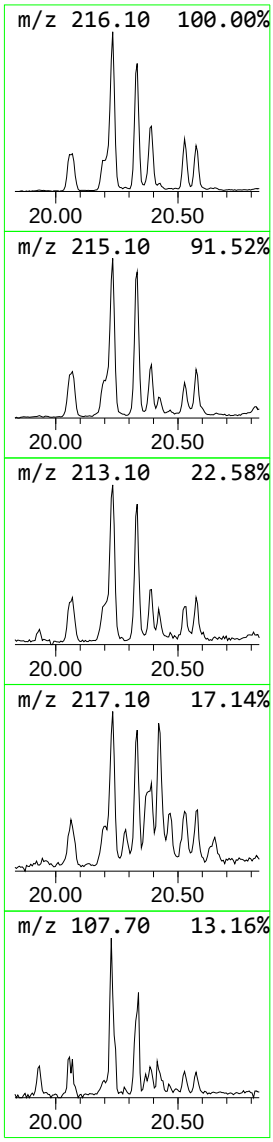
**********

Peak Number 10 11H-Benzo[a]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.333 | 2.03 ng | 171533 | Chrysene-d12 | 21.503 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

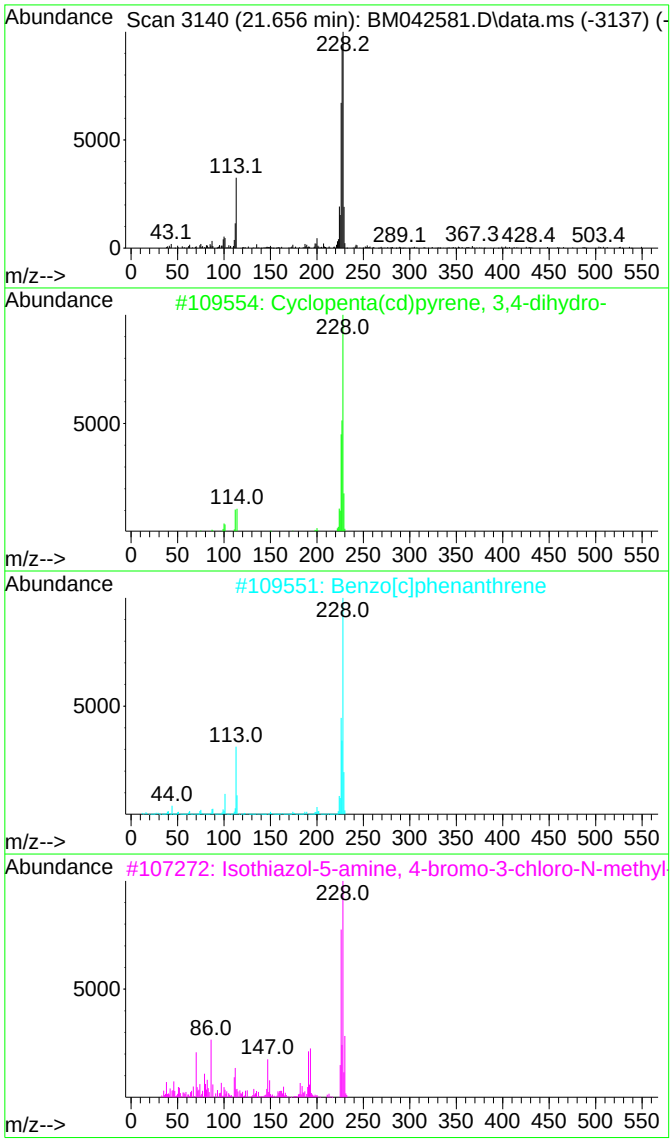
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

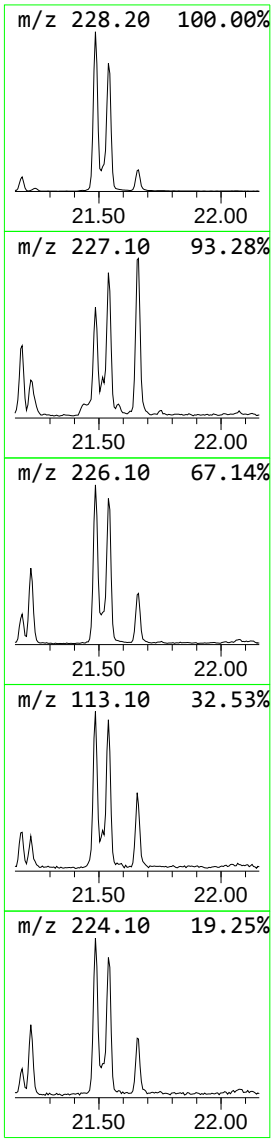
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.656 | 2.35 ng | 197937 | Chrysene-d12 | 21.503 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 50 |
| 2 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 50 |
| 3 | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 43 |
| 4 | Triphenylene | 228 | C18H12 | 000217-59-4 | 41 |
| 5 | Chrysene | 228 | C18H12 | 000218-01-9 | 41 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

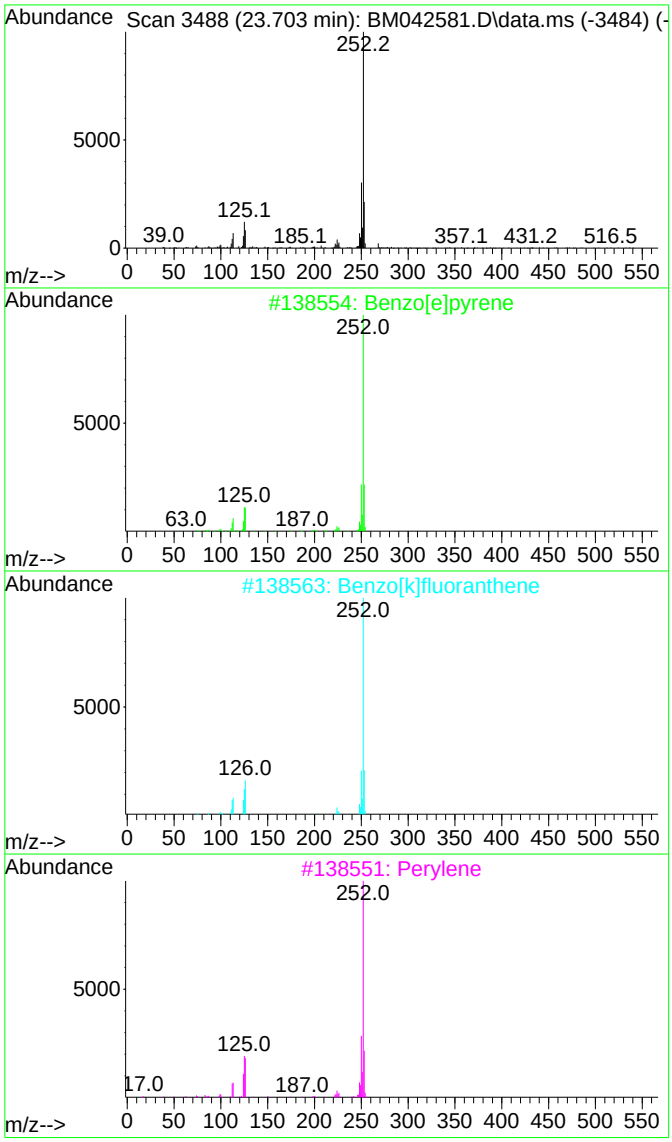
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

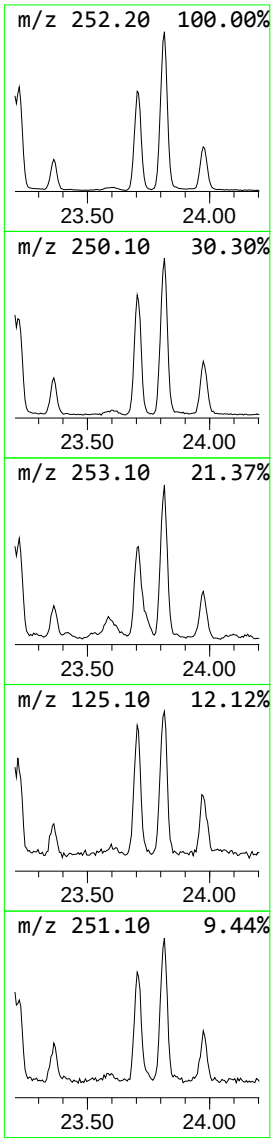
**********

Peak Number 12 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.703 | 9.89 ng | 328665 | Perylene-d12 | 23.921 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042581.D
Acq On : 03 Nov 2023 21:35
Operator : MA/JU
Sample : 05141-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PE-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.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 |
| Dibenzothiophene | 17.139 | 2.7 | ng | 88357 | 4 | 17.321 | 648368 | 20.0 |
| Phenanthrene, 2... | 18.186 | 8.1 | ng | 263548 | 4 | 17.321 | 648368 | 20.0 |
| Anthracene, 9-m... | 18.239 | 5.8 | ng | 188868 | 4 | 17.321 | 648368 | 20.0 |
| 4H-Cyclopenta[d... | 18.392 | 9.3 | ng | 301295 | 4 | 17.321 | 648368 | 20.0 |
| Phenanthrene, 3... | 18.421 | 2.6 | ng | 83570 | 4 | 17.321 | 648368 | 20.0 |
| Naphthalene, 2-... | 18.692 | 3.3 | ng | 106463 | 4 | 17.321 | 648368 | 20.0 |
| 9,10-Anthracene... | 18.756 | 3.3 | ng | 105372 | 4 | 17.321 | 648368 | 20.0 |
| 11H-Benzo[b]flu... | 20.233 | 2.5 | ng | 214166 | 5 | 21.503 | 1687310 | 20.0 |
| 11H-Benzo[a]flu... | 20.333 | 2.0 | ng | 171533 | 5 | 21.503 | 1687310 | 20.0 |
| Cyclopenta(cd)p... | 21.656 | 2.4 | ng | 197937 | 5 | 21.503 | 1687310 | 20.0 |
| Benzo[e]pyrene | 23.703 | 9.9 | ng | 328665 | 6 | 23.921 | 664425 | 20.0 |