LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.716 | 628 | 634 | 647 | rBV | 555723 | 1086905 | 3.20% | 0.368% |
| 2 | 6.863 | 653 | 659 | 671 | rBV | 397828 | 657545 | 1.93% | 0.222% |
| 3 | 7.051 | 686 | 691 | 702 | rVB | 616514 | 994290 | 2.92% | 0.336% |
| 4 | 7.510 | 762 | 769 | 777 | rBV | 638991 | 1025857 | 3.02% | 0.347% |
| 5 | 8.240 | 887 | 893 | 902 | rBV | 715595 | 1257134 | 3.70% | 0.425% |
| 6 | 8.669 | 959 | 966 | 978 | rBV | 716947 | 1287834 | 3.79% | 0.436% |
| 7 | 9.387 | 1080 | 1088 | 1096 | rBV | 551604 | 986648 | 2.90% | 0.334% |
| 8 | 9.928 | 1174 | 1180 | 1196 | rBV | 703060 | 1431195 | 4.21% | 0.484% |
| 9 | 10.281 | 1231 | 1240 | 1246 | rBV | 926956 | 1599324 | 4.70% | 0.541% |
| 10 | 10.451 | 1260 | 1269 | 1290 | rBV | 307889 | 735230 | 2.16% | 0.249% |
| 11 | 13.486 | 1778 | 1785 | 1790 | rBV2 | 229153 | 420688 | 1.24% | 0.142% |
| 12 | 13.598 | 1798 | 1804 | 1808 | rBV | 1511598 | 2060746 | 6.06% | 0.697% |
| 13 | 13.639 | 1808 | 1811 | 1818 | rVB | 379602 | 551116 | 1.62% | 0.186% |
| 14 | 13.863 | 1837 | 1849 | 1853 | rBV | 1767776 | 2805939 | 8.25% | 0.949% |
| 15 | 13.892 | 1853 | 1854 | 1862 | rVB | 565892 | 543816 | 1.60% | 0.184% |
| 16 | 14.175 | 1893 | 1902 | 1908 | rBV2 | 1392984 | 2265018 | 6.66% | 0.766% |
| 17 | 14.239 | 1908 | 1913 | 1922 | rVB | 567626 | 898433 | 2.64% | 0.304% |
| 18 | 14.451 | 1943 | 1949 | 1960 | rBV3 | 372140 | 979868 | 2.88% | 0.331% |
| 19 | 14.580 | 1965 | 1971 | 1977 | rVV | 625382 | 943252 | 2.77% | 0.319% |
| 20 | 15.174 | 2066 | 2072 | 2077 | rBV | 2063391 | 2943930 | 8.66% | 0.996% |
| 21 | 15.233 | 2077 | 2082 | 2093 | rVB2 | 989472 | 1543876 | 4.54% | 0.522% |
| 22 | 15.357 | 2093 | 2103 | 2106 | rBV2 | 256655 | 559561 | 1.65% | 0.189% |
| 23 | 15.527 | 2127 | 2132 | 2139 | rVB | 461523 | 721093 | 2.12% | 0.244% |
| 24 | 15.674 | 2148 | 2157 | 2165 | rVV | 452979 | 996626 | 2.93% | 0.337% |
| 25 | 15.910 | 2191 | 2197 | 2205 | rVB5 | 162305 | 372639 | 1.10% | 0.126% |
| 26 | 16.245 | 2242 | 2254 | 2258 | rBV3 | 388643 | 879415 | 2.59% | 0.297% |
| 27 | 16.468 | 2284 | 2292 | 2296 | rBV5 | 322710 | 616141 | 1.81% | 0.208% |
| 28 | 16.604 | 2310 | 2315 | 2320 | rVB2 | 424575 | 662910 | 1.95% | 0.224% |
| 29 | 16.668 | 2320 | 2326 | 2328 | rBV2 | 361511 | 564078 | 1.66% | 0.191% |
| 30 | 16.757 | 2336 | 2341 | 2350 | rVB | 643490 | 1053943 | 3.10% | 0.356% |
| 31 | 16.939 | 2365 | 2372 | 2375 | rBV | 1674413 | 2577531 | 7.58% | 0.872% |
| 32 | 16.986 | 2375 | 2380 | 2385 | rVV | 14473342 | 19608543 | 57.66% | 6.632% |
| 33 | 17.039 | 2385 | 2389 | 2392 | rVV | 2430660 | 3519866 | 10.35% | 1.190% |
| 34 | 17.074 | 2392 | 2395 | 2400 | rVV | 3025689 | 3740901 | 11.00% | 1.265% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.139 | 2400 | 2406 | 2411 | rVV3 | 178170 | 380064 | 1.12% | 0.129% |
| 36 | 17.357 | 2435 | 2443 | 2454 | rBV3 | 422771 | 1183272 | 3.48% | 0.400% |
| 37 | 17.457 | 2456 | 2460 | 2467 | rVV2 | 380877 | 632903 | 1.86% | 0.214% |
| 38 | 17.521 | 2467 | 2471 | 2480 | rVB4 | 231228 | 580722 | 1.71% | 0.196% |
| 39 | 17.815 | 2512 | 2521 | 2524 | rBV | 1826982 | 2672428 | 7.86% | 0.904% |
| 40 | 17.863 | 2524 | 2529 | 2536 | rVB | 2699755 | 4015833 | 11.81% | 1.358% |
| 41 | 17.945 | 2536 | 2543 | 2548 | rBV | 923925 | 1346050 | 3.96% | 0.455% |
| 42 | 18.010 | 2548 | 2554 | 2558 | rVV2 | 2540911 | 4537703 | 13.34% | 1.535% |
| 43 | 18.045 | 2558 | 2560 | 2569 | rVB | 1244917 | 1480061 | 4.35% | 0.501% |
| 44 | 18.321 | 2602 | 2607 | 2612 | rBV | 1385971 | 1808883 | 5.32% | 0.612% |
| 45 | 18.380 | 2612 | 2617 | 2623 | rVB | 864210 | 1191843 | 3.50% | 0.403% |
| 46 | 18.568 | 2645 | 2649 | 2654 | rVB | 373618 | 509302 | 1.50% | 0.172% |
| 47 | 18.621 | 2654 | 2658 | 2661 | rVB | 408838 | 462367 | 1.36% | 0.156% |
| 48 | 18.662 | 2661 | 2665 | 2670 | rVB2 | 382305 | 526478 | 1.55% | 0.178% |
| 49 | 18.745 | 2673 | 2679 | 2683 | rBV | 955166 | 1624047 | 4.78% | 0.549% |
| 50 | 18.810 | 2683 | 2690 | 2693 | rVV3 | 592986 | 1320103 | 3.88% | 0.446% |
| 51 | 18.839 | 2693 | 2695 | 2698 | rVV | 381751 | 378795 | 1.11% | 0.128% |
| 52 | 18.898 | 2698 | 2705 | 2711 | rVB3 | 944005 | 1785351 | 5.25% | 0.604% |
| 53 | 19.027 | 2718 | 2727 | 2731 | rBV | 23981596 | 34008905 | 100.00% | 11.502% |
| 54 | 19.080 | 2732 | 2736 | 2739 | rVV | 292214 | 402357 | 1.18% | 0.136% |
| 55 | 19.115 | 2739 | 2742 | 2747 | rVV3 | 435659 | 752588 | 2.21% | 0.255% |
| 56 | 19.162 | 2748 | 2750 | 2754 | rVB | 329815 | 409802 | 1.20% | 0.139% |
| 57 | 19.251 | 2760 | 2765 | 2770 | rVB2 | 610838 | 1000939 | 2.94% | 0.339% |
| 58 | 19.357 | 2777 | 2783 | 2785 | rBV2 | 5910078 | 9427294 | 27.72% | 3.188% |
| 59 | 19.392 | 2785 | 2789 | 2795 | rVV | 19932630 | 25942701 | 76.28% | 8.774% |
| 60 | 19.451 | 2795 | 2799 | 2808 | rVB2 | 982374 | 1405074 | 4.13% | 0.475% |
| 61 | 19.562 | 2813 | 2818 | 2824 | rBV | 1204289 | 1571699 | 4.62% | 0.532% |
| 62 | 19.627 | 2824 | 2829 | 2833 | rVB | 747462 | 1133351 | 3.33% | 0.383% |
| 63 | 19.715 | 2834 | 2844 | 2850 | rBV3 | 1118016 | 3055386 | 8.98% | 1.033% |
| 64 | 19.845 | 2860 | 2866 | 2868 | rBV4 | 892683 | 1612235 | 4.74% | 0.545% |
| 65 | 19.880 | 2868 | 2872 | 2877 | rVB | 2532025 | 3552555 | 10.45% | 1.201% |
| 66 | 19.980 | 2885 | 2889 | 2893 | rBV | 1686164 | 2135103 | 6.28% | 0.722% |
| 67 | 20.039 | 2893 | 2899 | 2903 | rVV2 | 1581079 | 2808908 | 8.26% | 0.950% |
| 68 | 20.115 | 2909 | 2912 | 2916 | rVB | 370934 | 490982 | 1.44% | 0.166% |
| 69 | 20.180 | 2919 | 2923 | 2926 | rVV | 787803 | 1013555 | 2.98% | 0.343% |
| 70 | 20.227 | 2926 | 2931 | 2935 | rVB3 | 922494 | 1257338 | 3.70% | 0.425% |
| 71 | 20.439 | 2963 | 2967 | 2970 | rBV3 | 243269 | 486967 | 1.43% | 0.165% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.521 | 2976 | 2981 | 2988 | rVB3 | 801574 | 1588065 | 4.67% | 0.537% |
| 73 | 20.639 | 2997 | 3001 | 3006 | rBV | 1565918 | 1879226 | 5.53% | 0.636% |
| 74 | 20.798 | 3024 | 3028 | 3031 | rBV | 1755594 | 2161688 | 6.36% | 0.731% |
| 75 | 20.833 | 3031 | 3034 | 3037 | rVV | 1620271 | 1948736 | 5.73% | 0.659% |
| 76 | 20.874 | 3037 | 3041 | 3049 | rVV3 | 1353322 | 2942348 | 8.65% | 0.995% |
| 77 | 20.945 | 3049 | 3053 | 3057 | rVB | 1471497 | 1966912 | 5.78% | 0.665% |
| 78 | 20.992 | 3057 | 3061 | 3063 | rBV | 514386 | 560903 | 1.65% | 0.190% |
| 79 | 21.074 | 3070 | 3075 | 3079 | rVB | 17722400 | 18080985 | 53.17% | 6.115% |
| 80 | 21.151 | 3079 | 3088 | 3093 | rVV2 | 11528311 | 20933690 | 61.55% | 7.080% |
| 81 | 21.198 | 3093 | 3096 | 3105 | rVB | 9330350 | 11692898 | 34.38% | 3.954% |
| 82 | 21.309 | 3111 | 3115 | 3121 | rBV | 1151358 | 1467031 | 4.31% | 0.496% |
| 83 | 21.374 | 3122 | 3126 | 3129 | rVV4 | 504535 | 889648 | 2.62% | 0.301% |
| 84 | 21.427 | 3133 | 3135 | 3138 | rVV | 479516 | 505261 | 1.49% | 0.171% |
| 85 | 21.474 | 3138 | 3143 | 3147 | rVB2 | 705389 | 1299625 | 3.82% | 0.440% |
| 86 | 21.645 | 3169 | 3172 | 3175 | rBV2 | 558783 | 736767 | 2.17% | 0.249% |
| 87 | 21.698 | 3177 | 3181 | 3185 | rVV | 1704992 | 2423832 | 7.13% | 0.820% |
| 88 | 21.750 | 3187 | 3190 | 3195 | rVB | 862824 | 1105559 | 3.25% | 0.374% |
| 89 | 21.892 | 3210 | 3214 | 3217 | rBV | 638646 | 1024674 | 3.01% | 0.347% |
| 90 | 22.180 | 3259 | 3263 | 3266 | rBV4 | 562182 | 850510 | 2.50% | 0.288% |
| 91 | 22.445 | 3305 | 3308 | 3313 | rVB2 | 494233 | 687601 | 2.02% | 0.233% |
| 92 | 22.698 | 3344 | 3351 | 3355 | rBV | 5336157 | 11369093 | 33.43% | 3.845% |
| 93 | 22.850 | 3373 | 3377 | 3383 | rVB | 947370 | 1395074 | 4.10% | 0.472% |
| 94 | 23.156 | 3422 | 3429 | 3433 | rBV | 2568271 | 4708964 | 13.85% | 1.593% |
| 95 | 23.197 | 3433 | 3436 | 3440 | rVV2 | 1337872 | 2344651 | 6.89% | 0.793% |
| 96 | 23.250 | 3440 | 3445 | 3452 | rVB | 4408441 | 7603304 | 22.36% | 2.571% |
| 97 | 23.333 | 3455 | 3459 | 3463 | rVV | 950807 | 1667595 | 4.90% | 0.564% |
| 98 | 23.380 | 3463 | 3467 | 3475 | rVB2 | 1216814 | 2250042 | 6.62% | 0.761% |
| 99 | 25.503 | 3820 | 3828 | 3837 | rVB2 | 1790242 | 4819589 | 14.17% | 1.630% |
| 100 | 26.174 | 3935 | 3942 | 3955 | rVB | 965963 | 2987756 | 8.79% | 1.010% |

Sum of corrected areas: 295687862

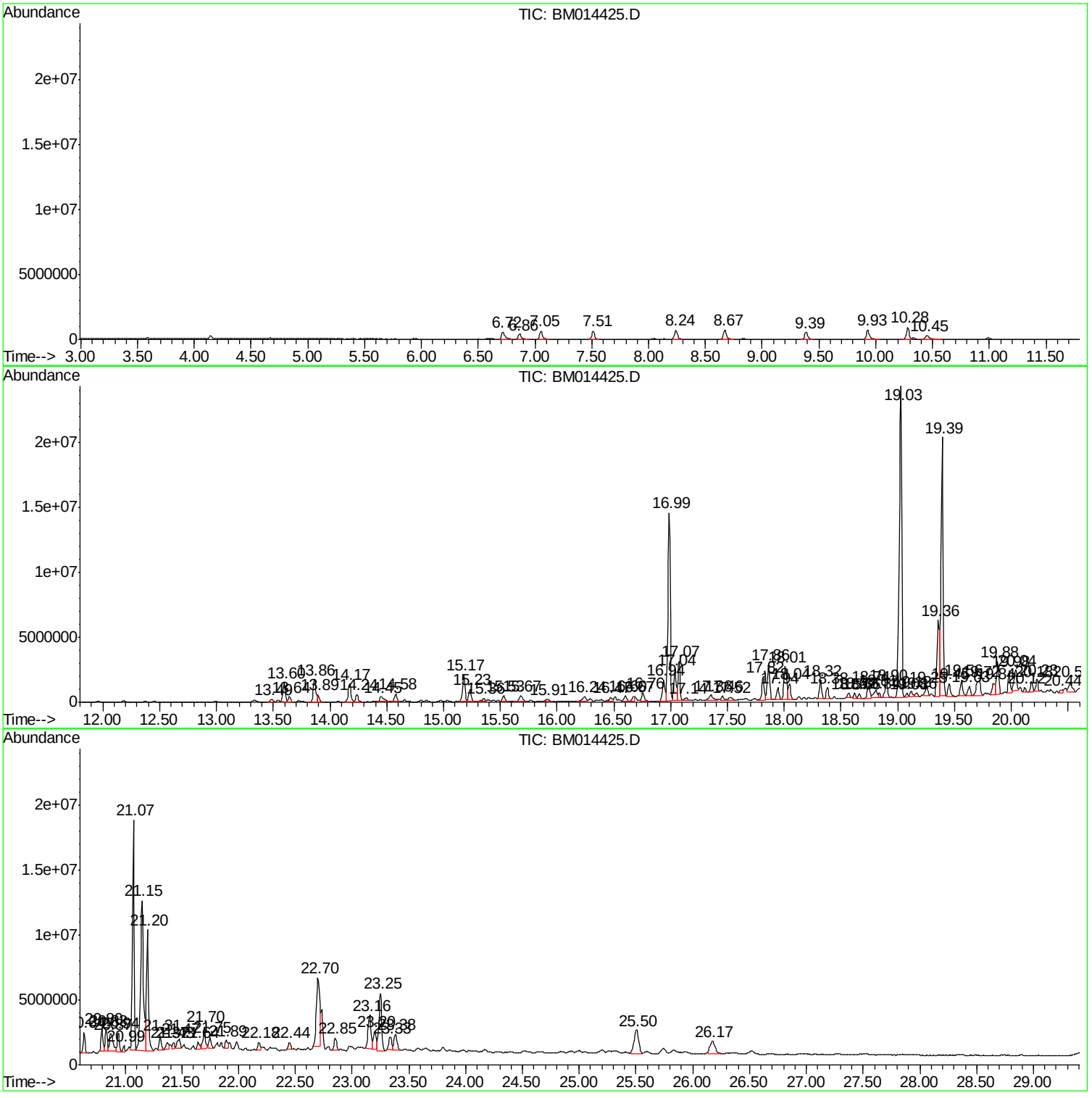
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

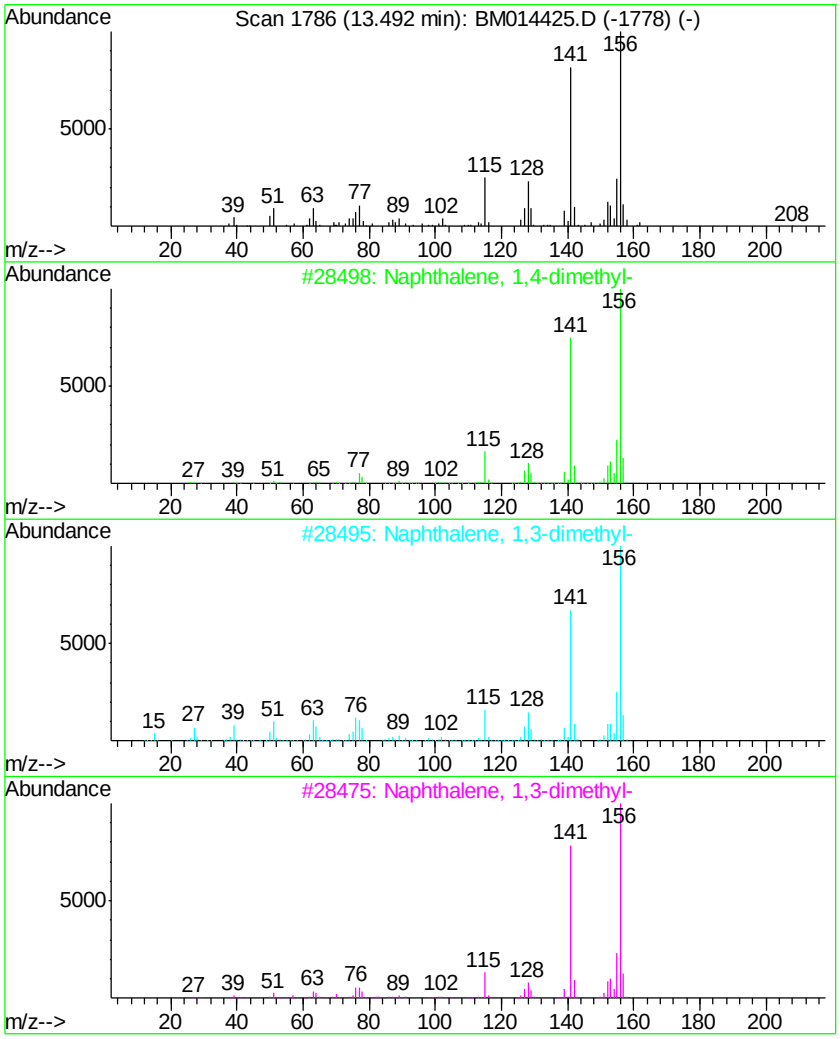
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

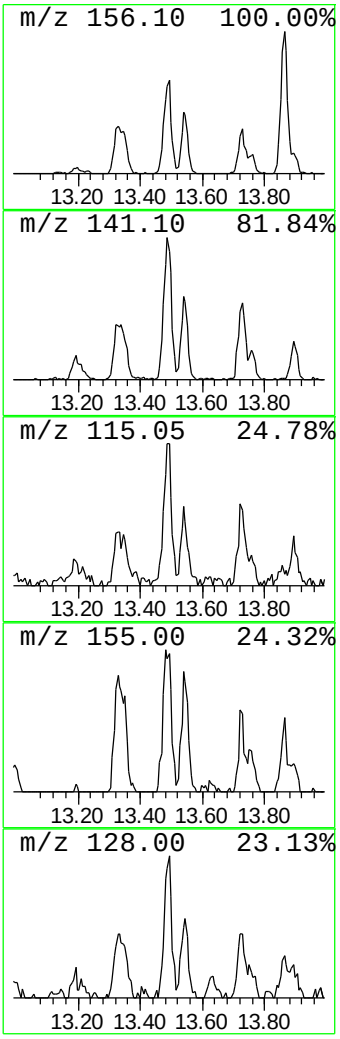
**********

Peak Number 1 Naphthalene, 1,4-dimethyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 3.71 ng/ul | 420688 | Acenaphthene-d10 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 3 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 5 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 95 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

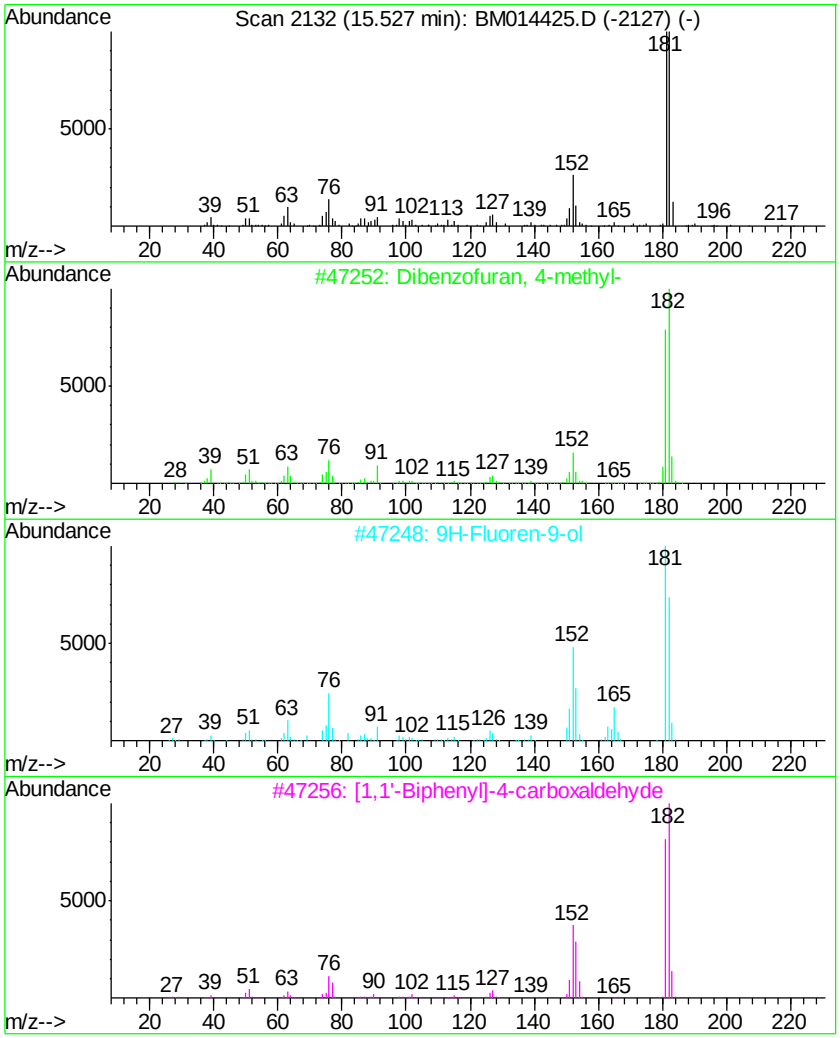
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

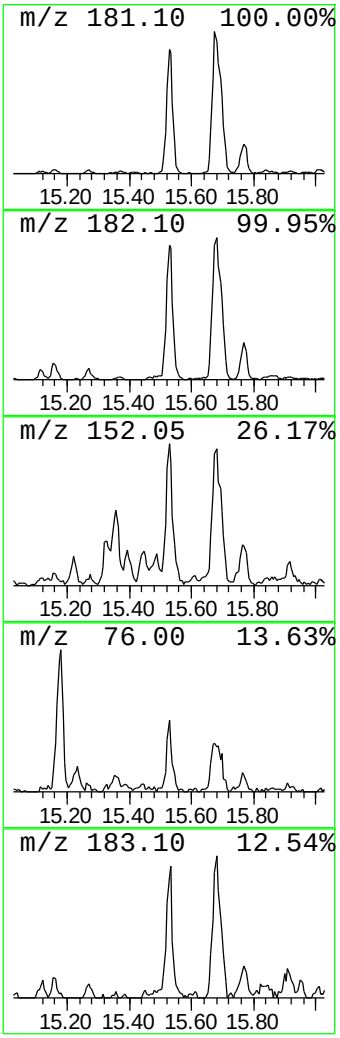
**********

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.53 | 6.37 ng/ul | 721093 | Acenaphthene-d10 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 93 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 91 |
| 3 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 87 |
| 4 | 3-(1-Naphthyl)acrylaldehyde | 182 | C13H10O | 001504-73-0 | 87 |
| 5 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

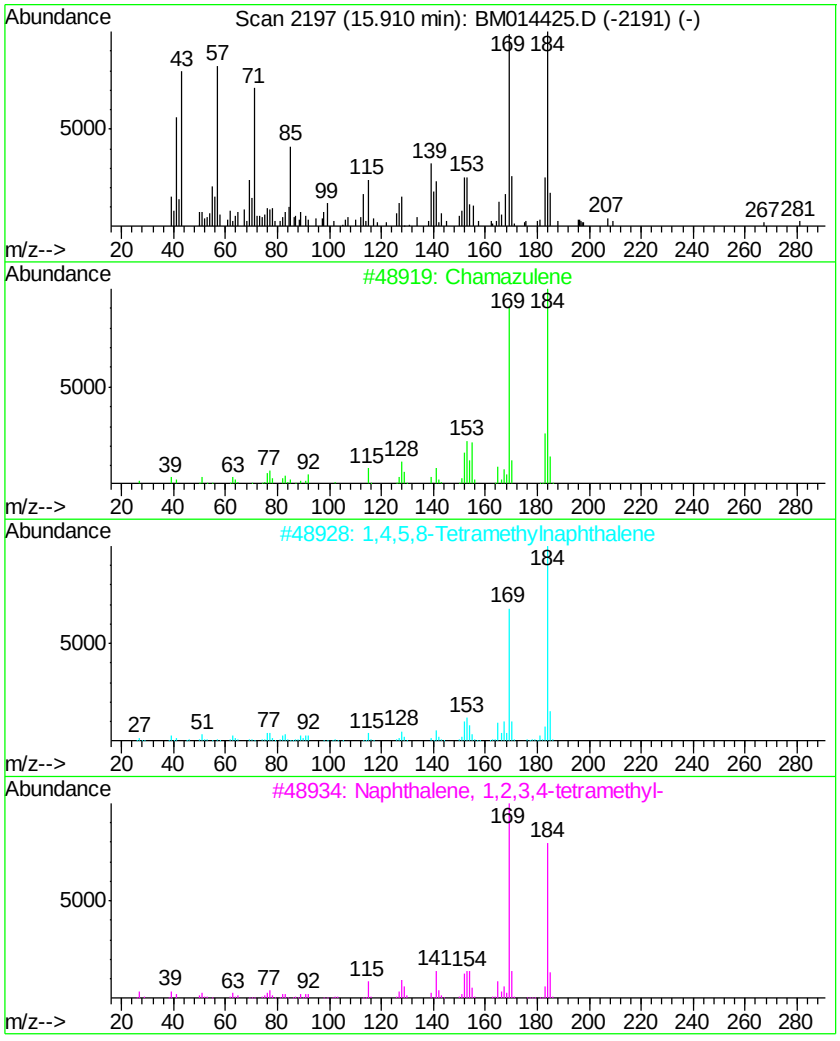
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

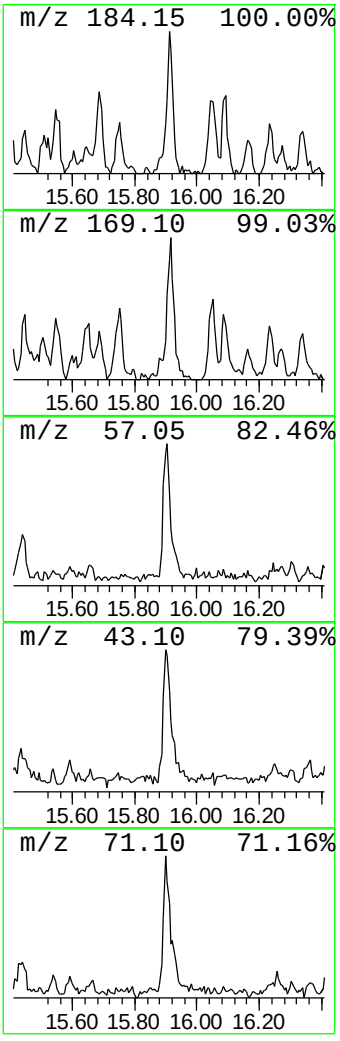
**********

Peak Number 4 Chamazulene Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.91 | 2.89 ng/ul | 372639 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chamazulene | 184 | C14H16 | 000529-05-5 | 60 |
| 2 | 1,4,5,8-Tetramethylnaphthalene | 184 | C14H16 | 002717-39-7 | 46 |
| 3 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 42 |
| 4 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 38 |
| 5 | [1,1'-Biphenyl]-4-methanol | 184 | C13H12O | 003597-91-9 | 38 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

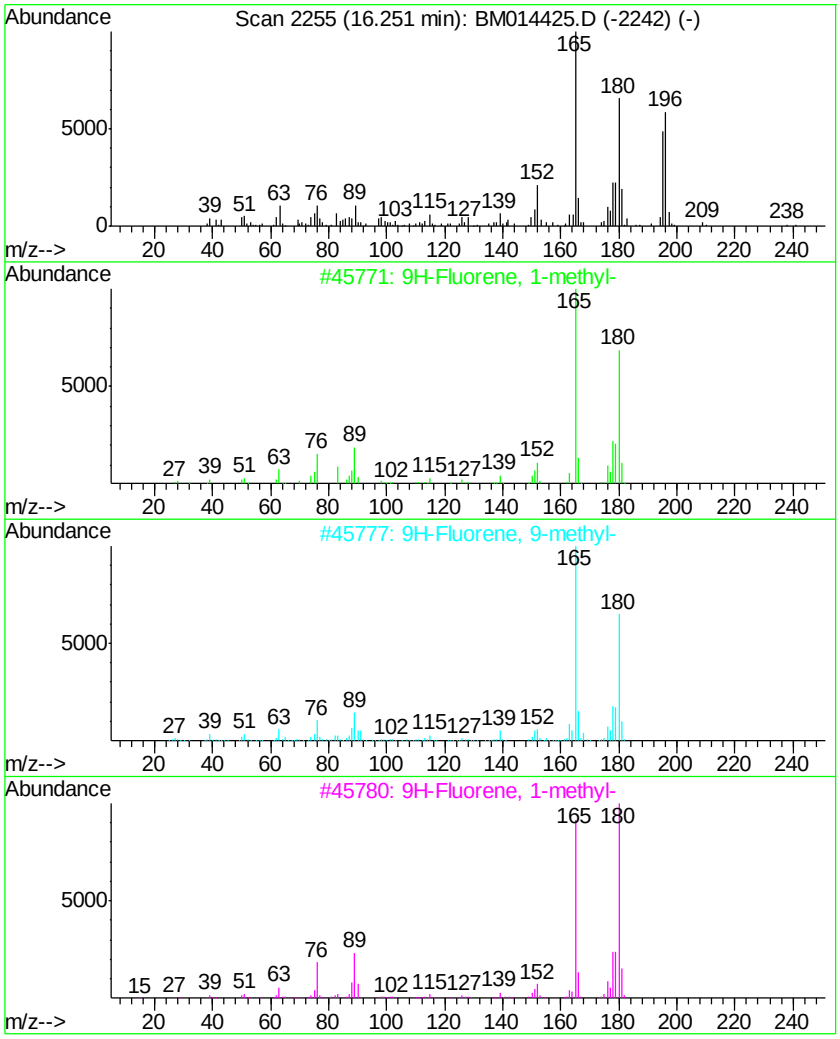
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

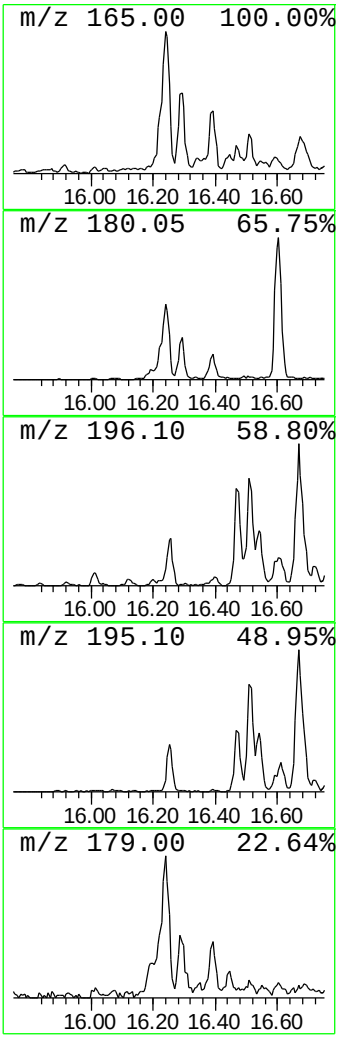
**********

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.25 | 6.82 ng/ul | 879415 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 91 |
| 2 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 83 |
| 3 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 70 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 64 |
| 5 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

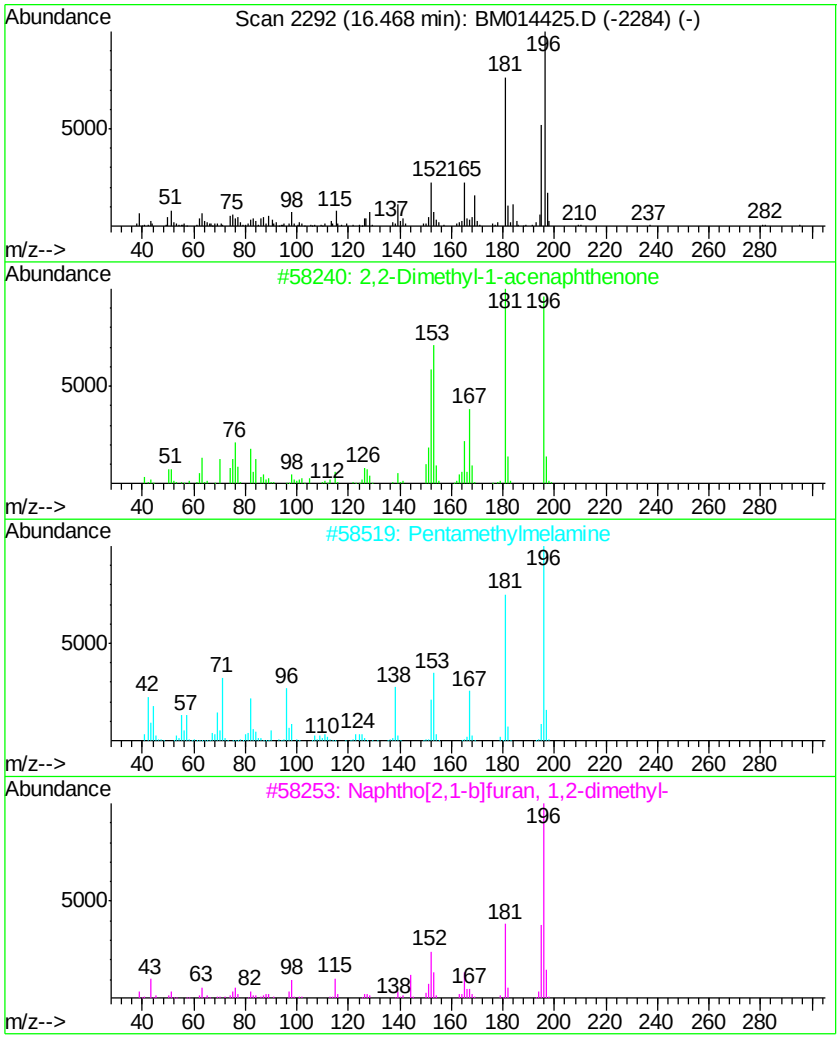
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

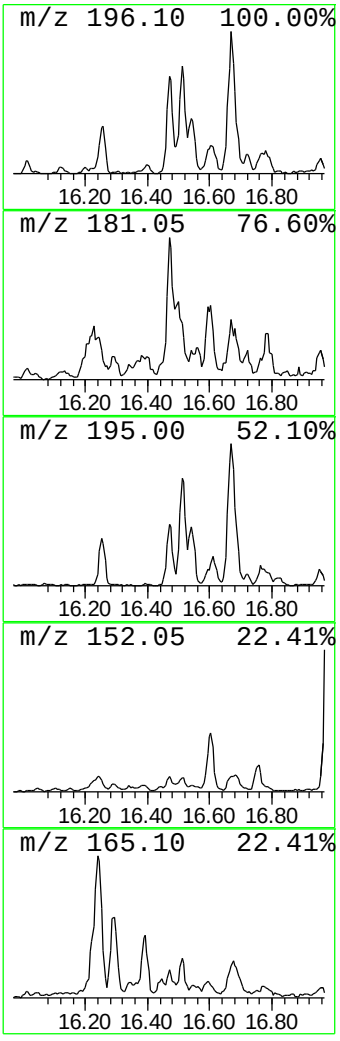
**********

Peak Number 6 2,2-Dimethyl-1-acenaphthenone Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.47 | 4.78 ng/ul | 616141 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-Dimethyl-1-acenaphthenone | 196 | C14H12O | 018086-43-6 | 64 |
| 2 | Pentamethylmelamine | 196 | C8H16N6 | 035832-09-8 | 58 |
| 3 | Naphtho[2,1-b]furan, 1,2-dimethyl- | 196 | C14H12O | 129812-23-3 | 58 |
| 4 | Benzaldehyde, 3,4,5-trimethoxy- | 196 | C10H12O4 | 000086-81-7 | 52 |
| 5 | Phenol, 4-(2-phenylethenyl)- | 196 | C14H12O | 003839-46-1 | 46 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

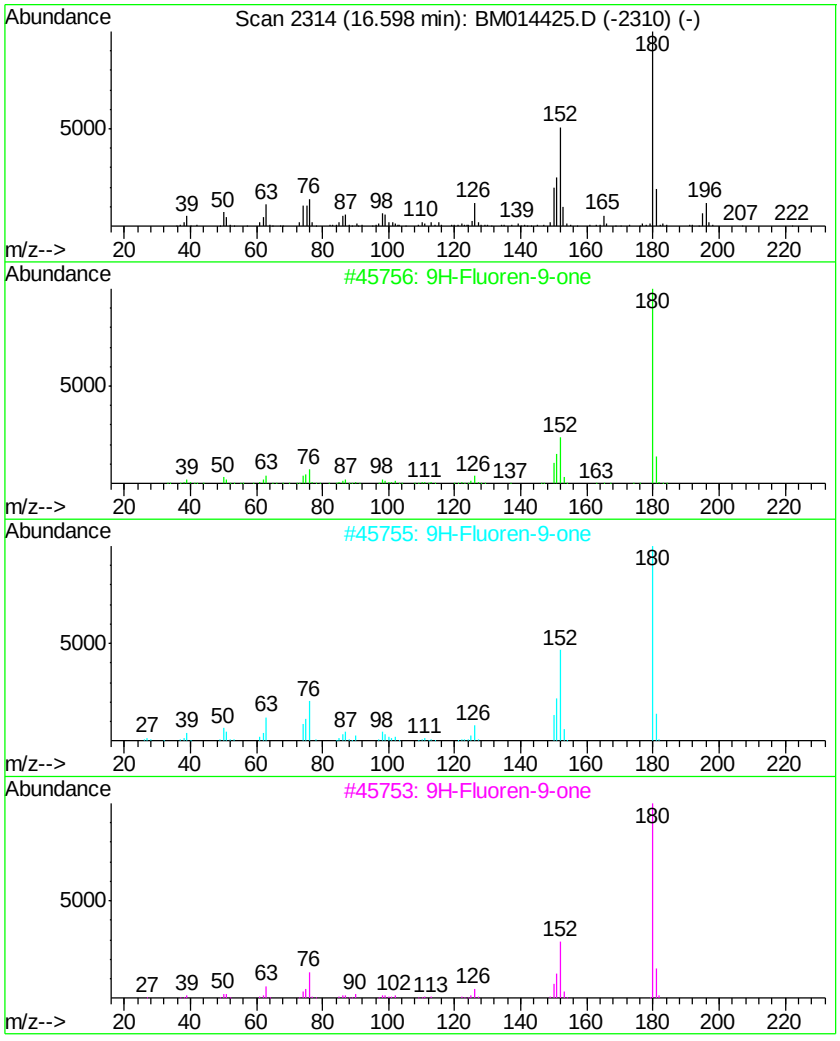
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

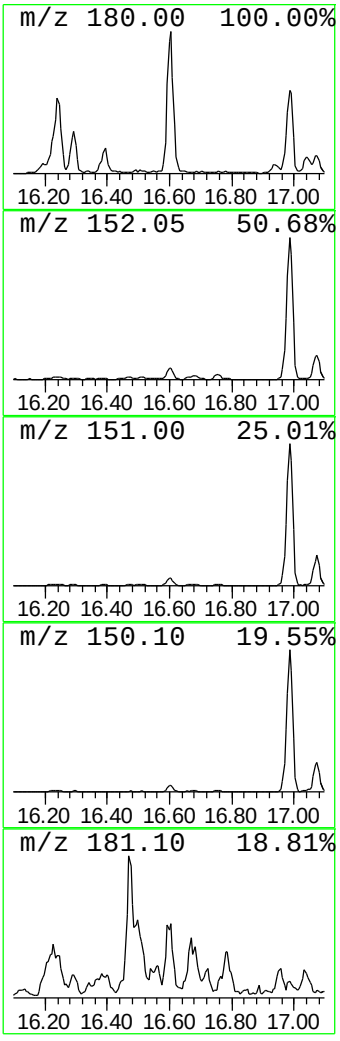
**********

Peak Number 7 9H-Fluoren-9-one Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.60 | 5.14 ng/ul | 662910 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 95 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 91 |
| 3 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 90 |
| 4 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 78 |
| 5 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 72 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

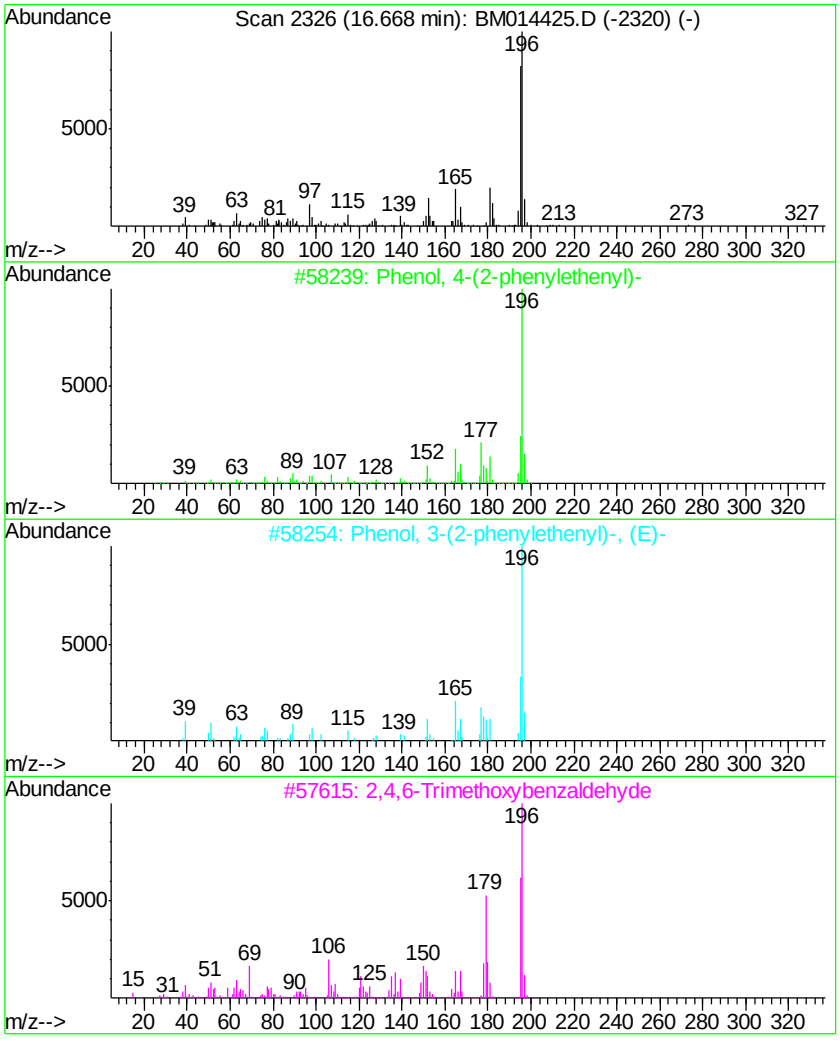
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

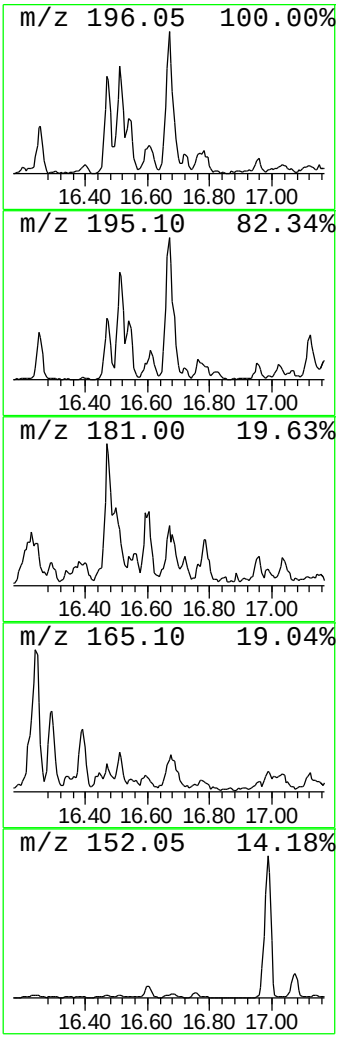
**********

Peak Number 8 Phenol, 4-(2-phenylethenyl)- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.67 | 4.38 ng/ul | 564078 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(2-phenylethenyl)- | 196 | C14H12O | 003839-46-1 | 58 |
| 2 | Phenol, 3-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 017861-18-6 | 58 |
| 3 | 2,4,6-Trimethoxybenzaldehyde | 196 | C10H12O4 | 000830-79-5 | 50 |
| 4 | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 49 |
| 5 | 5,7-Dimethylpyrimido-[3,4-a]-indole | 196 | C13H12N2 | 038349-21-2 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

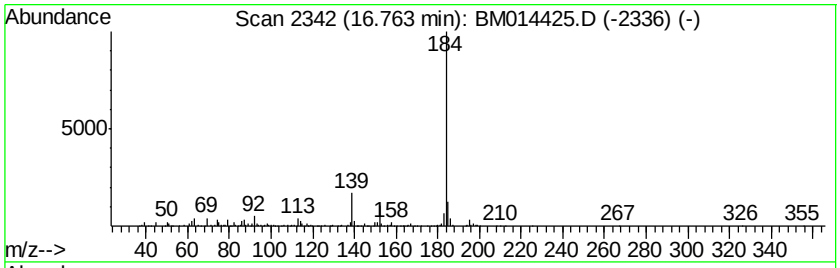
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

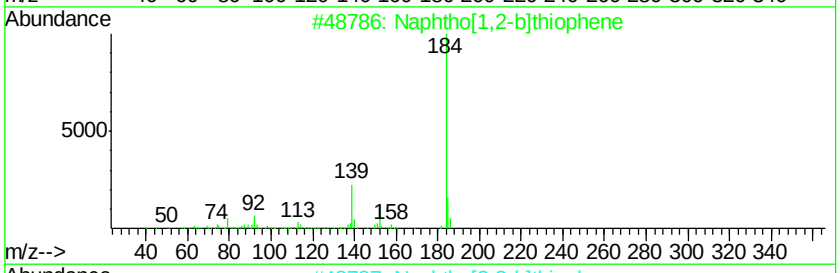
**********

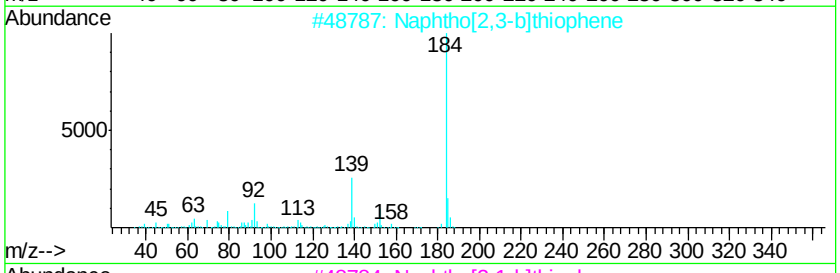
Peak Number 9 Naphtho[1,2-b]thiophene Concentration Rank 13

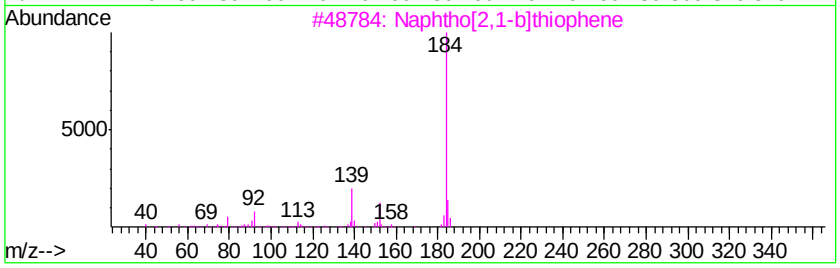
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.76 | 8.18 ng/ul | 1053940 | Phenanthrene-d10 | 16.94 |

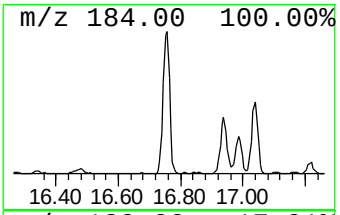
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 93 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 93 |
| 3 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 93 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 91 |
| 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 83 |

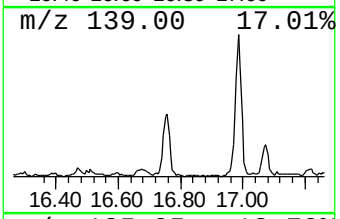


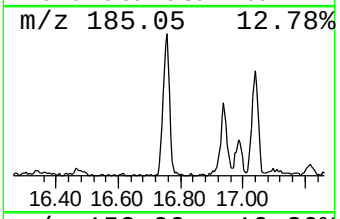



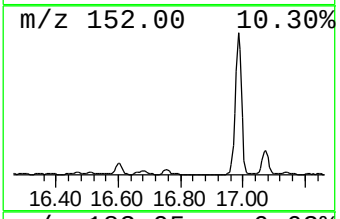



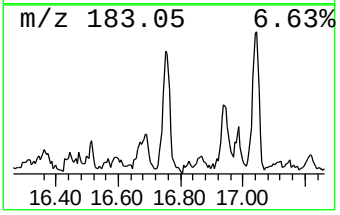



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

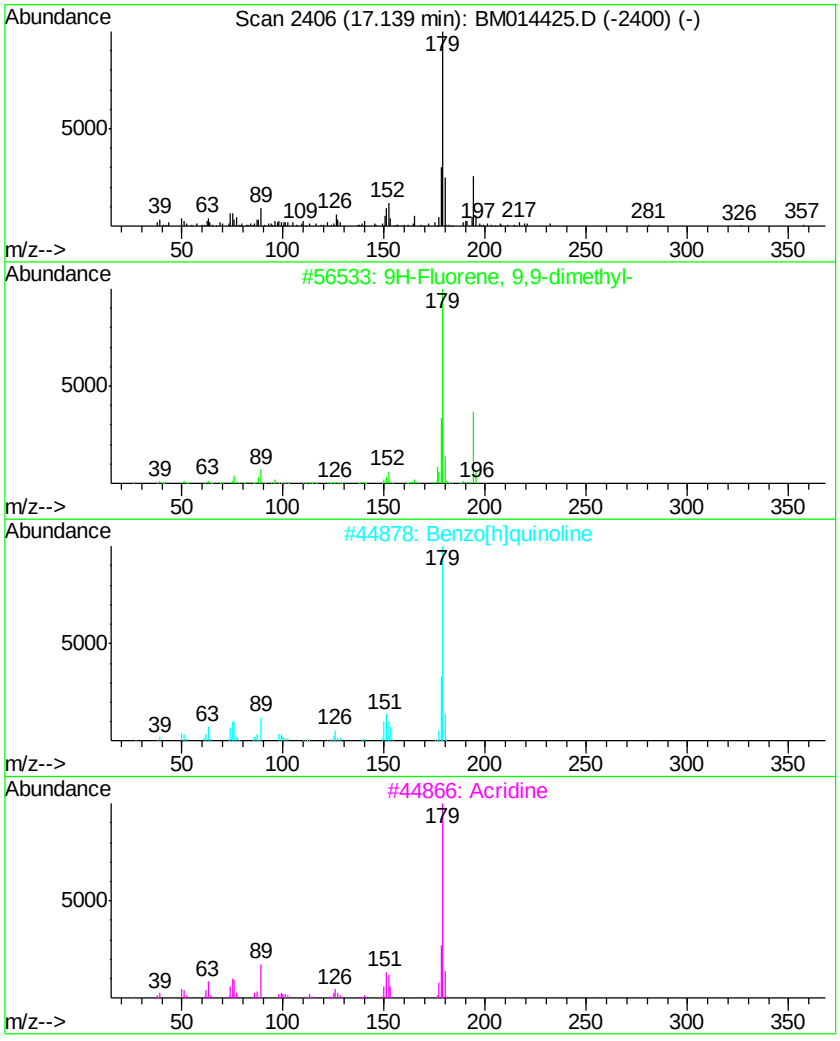
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

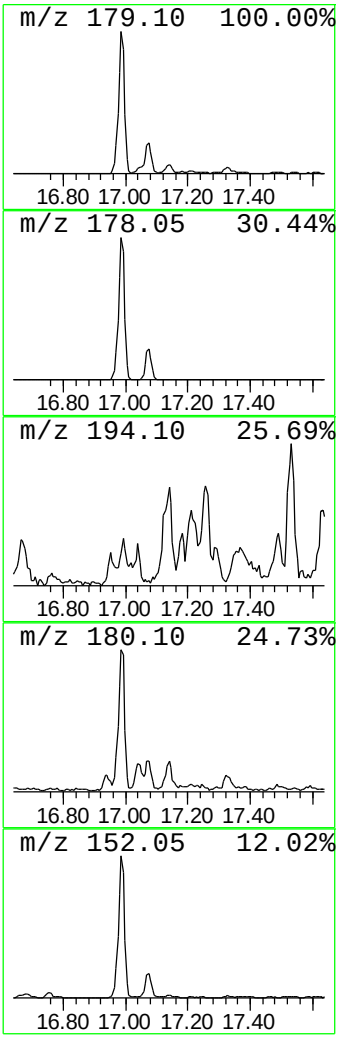
**********

Peak Number 10 9H-Fluorene, 9,9-dimethyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.14 | 2.95 ng/ul | 380064 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 9,9-dimethyl- | 194 | C15H14 | 004569-45-3 | 83 |
| 2 | Benzo[h]quinoline | 179 | C13H9N | 000230-27-3 | 68 |
| 3 | Acridine | 179 | C13H9N | 000260-94-6 | 68 |
| 4 | Acridine | 179 | C13H9N | 000260-94-6 | 62 |
| 5 | Phenanthridine | 179 | C13H9N | 000229-87-8 | 58 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

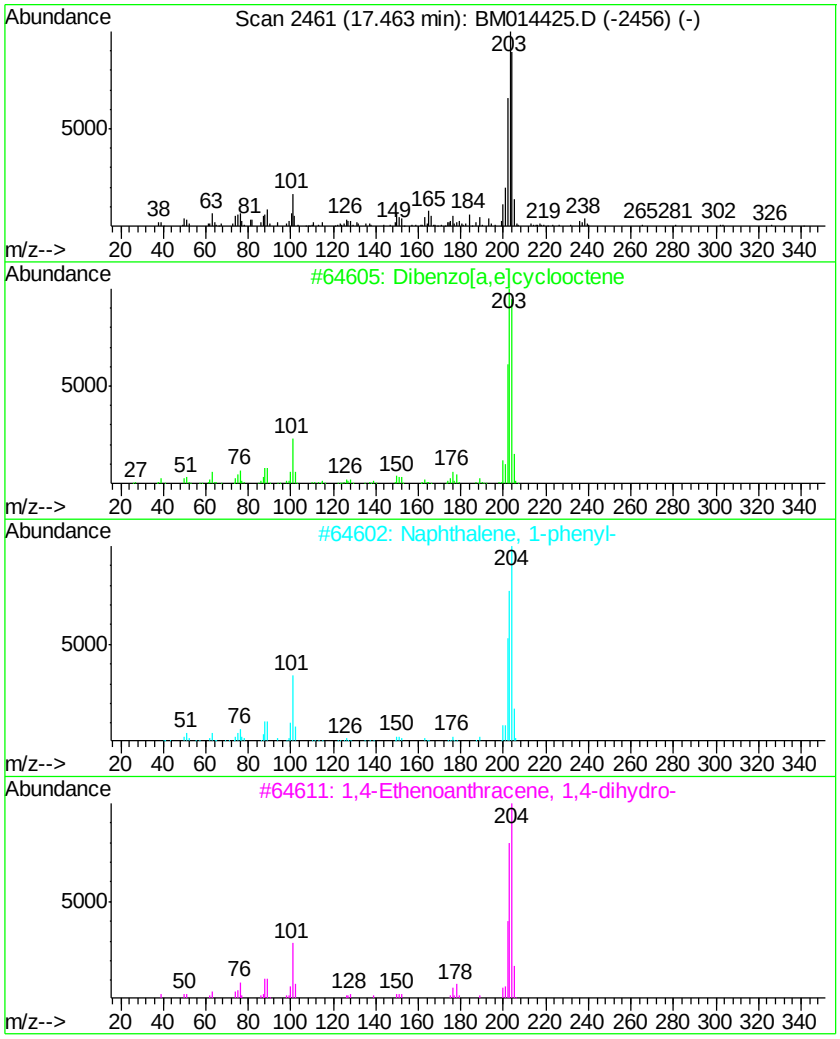
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

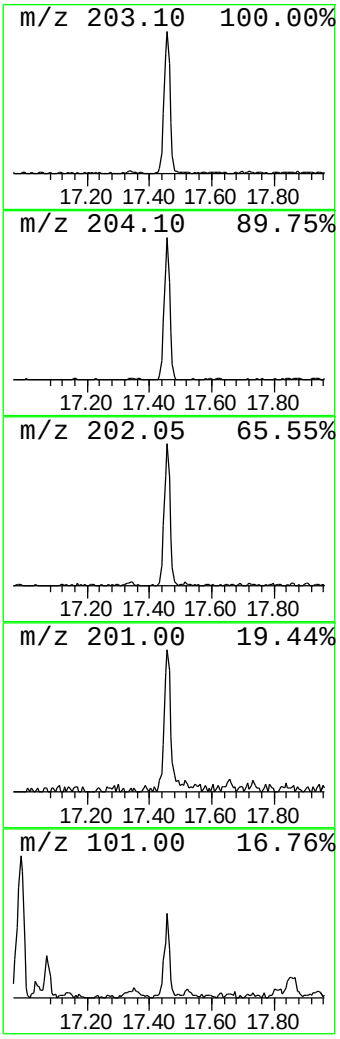
**********

Peak Number 11 Dibenzo[a,e]cyclooctene Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.46 | 4.91 ng/ul | 632903 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzo[a,e]cyclooctene | 204 | C16H12 | 000262-89-5 | 94 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 93 |
| 3 | 1,4-Ethenoanthracene, 1,4-dihydro- | 204 | C16H12 | 027765-96-4 | 89 |
| 4 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 76 |
| 5 | Cyclobuta[1'',2'':3,4:3'',4'':3'... | 204 | C16H12 | 006574-36-3 | 76 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

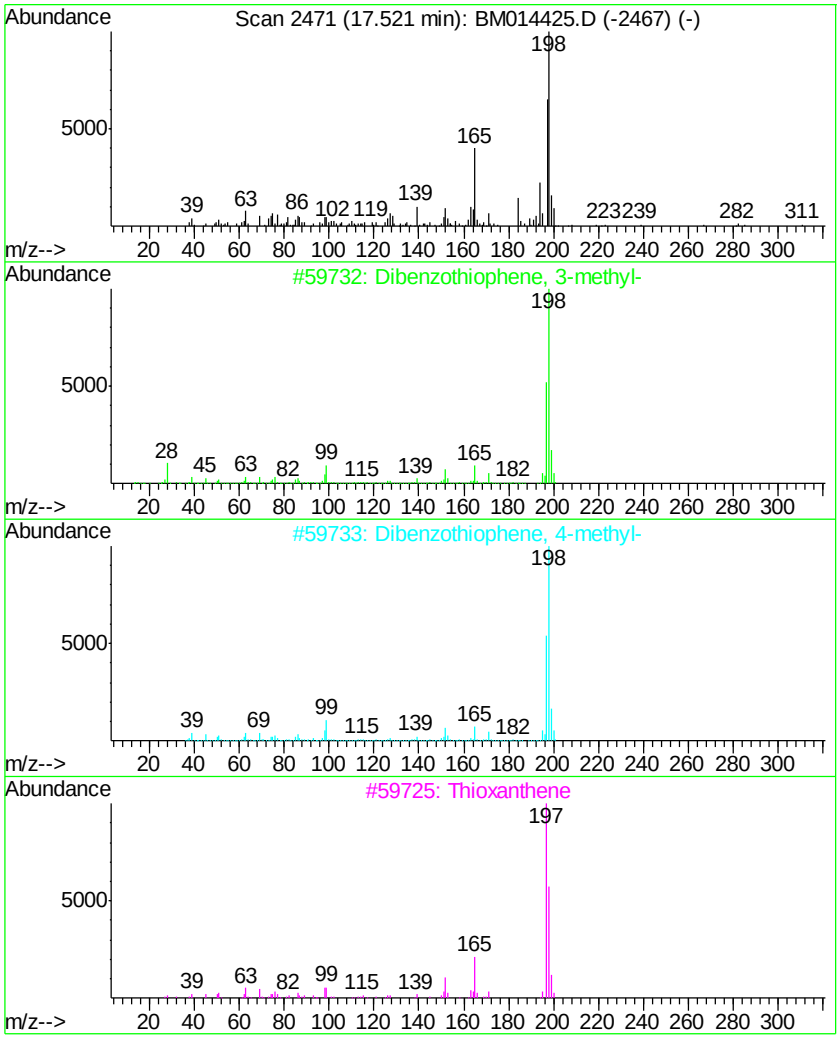
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

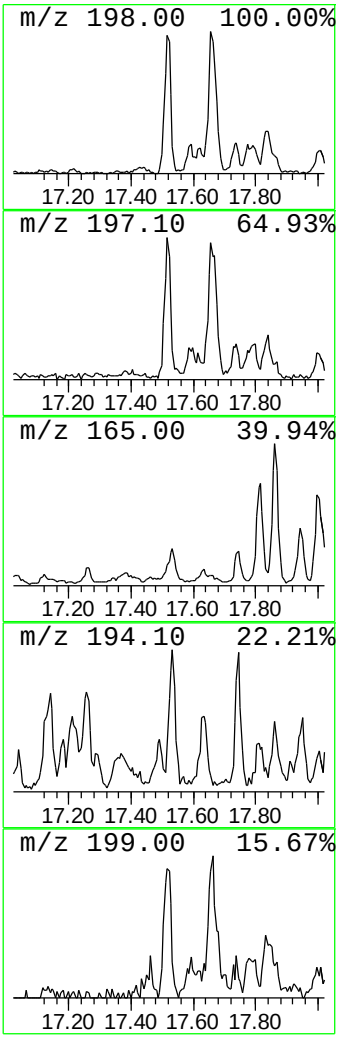
**********

Peak Number 12 Dibenzothiophene, 3-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.52 | 4.51 ng/ul | 580722 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 64 |
| 2 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 64 |
| 3 | Thioxanthene | 198 | C13H10S | 000261-31-4 | 53 |
| 4 | Methanethione, diphenyl- | 198 | C13H10S | 001450-31-3 | 50 |
| 5 | 1-Methyldibenzothiophene | 198 | C13H10S | 031317-07-4 | 47 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

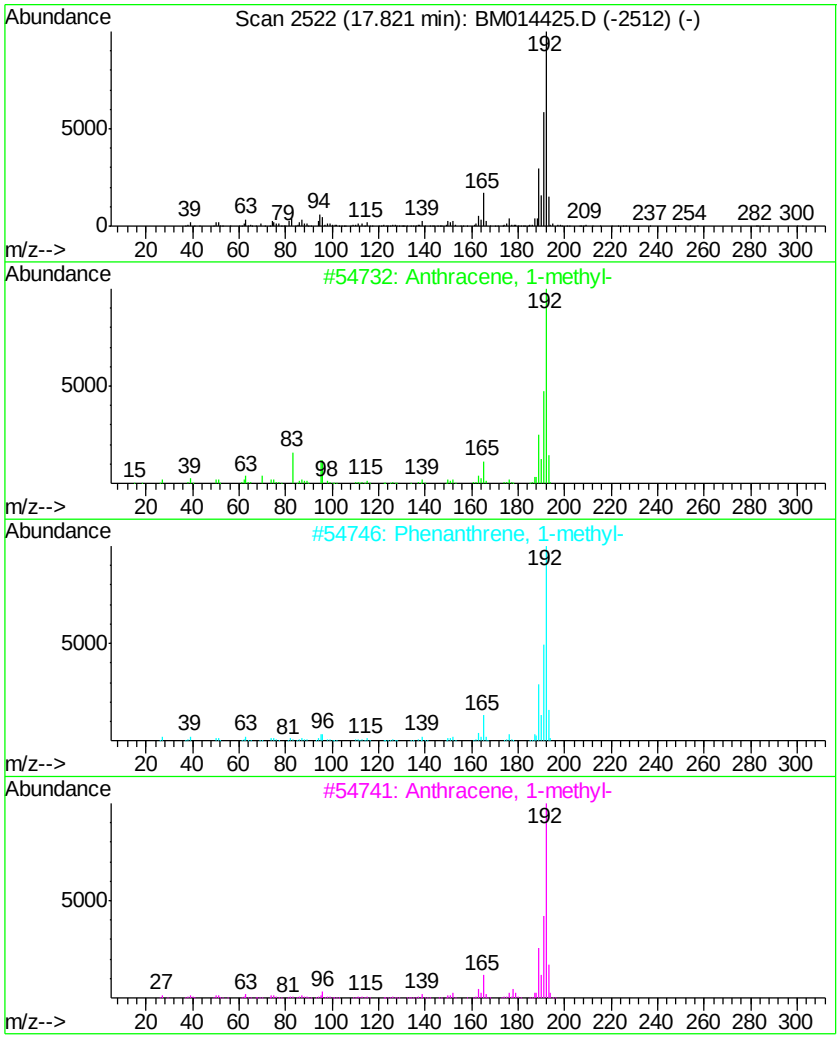
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

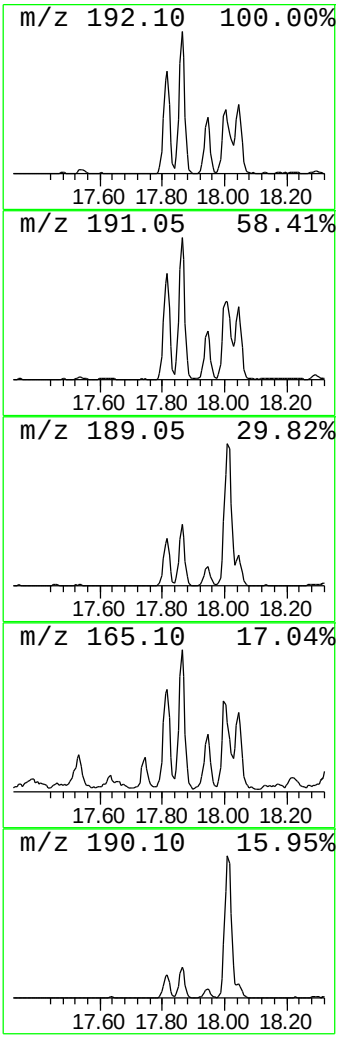
**********

Peak Number 13 Anthracene, 1-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.82 | 20.74 ng/ul | 2672430 | Phenanthrene-d10 | 16.94 |

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

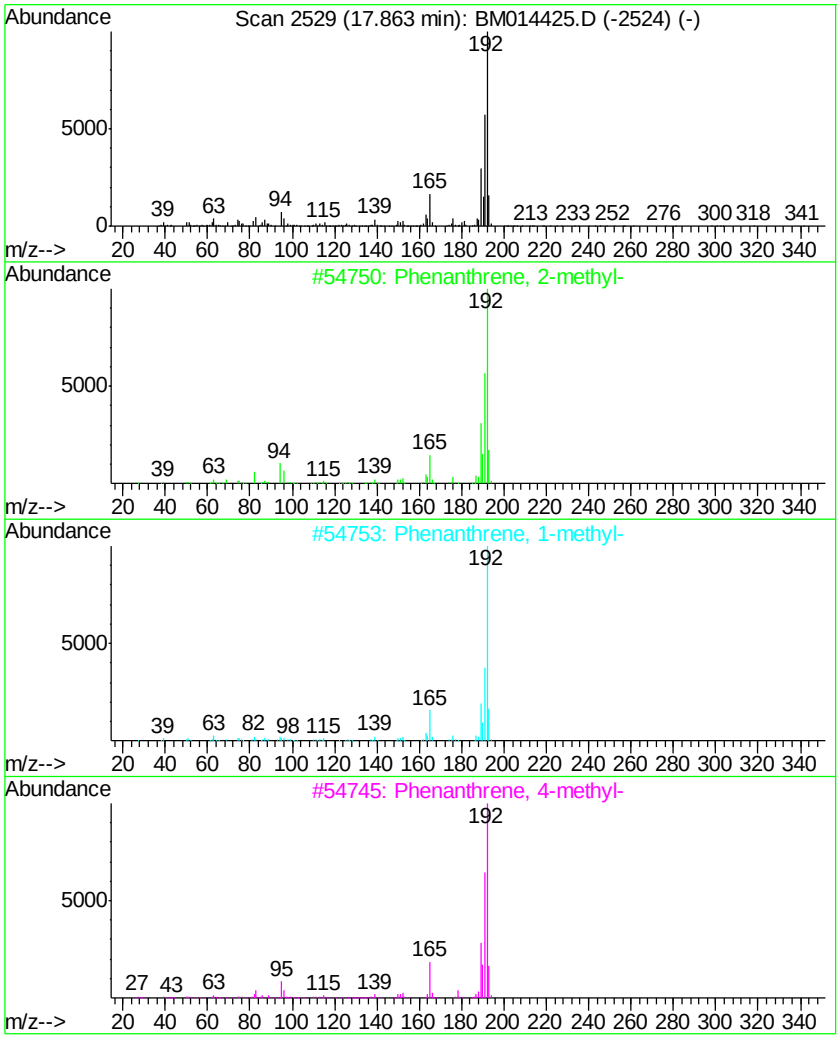
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

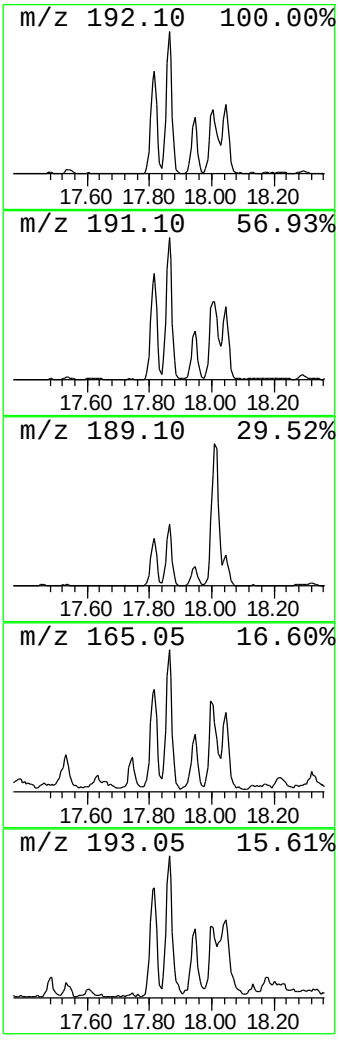
**********

Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.86 | 31.16 ng/ul | 4015830 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 95 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

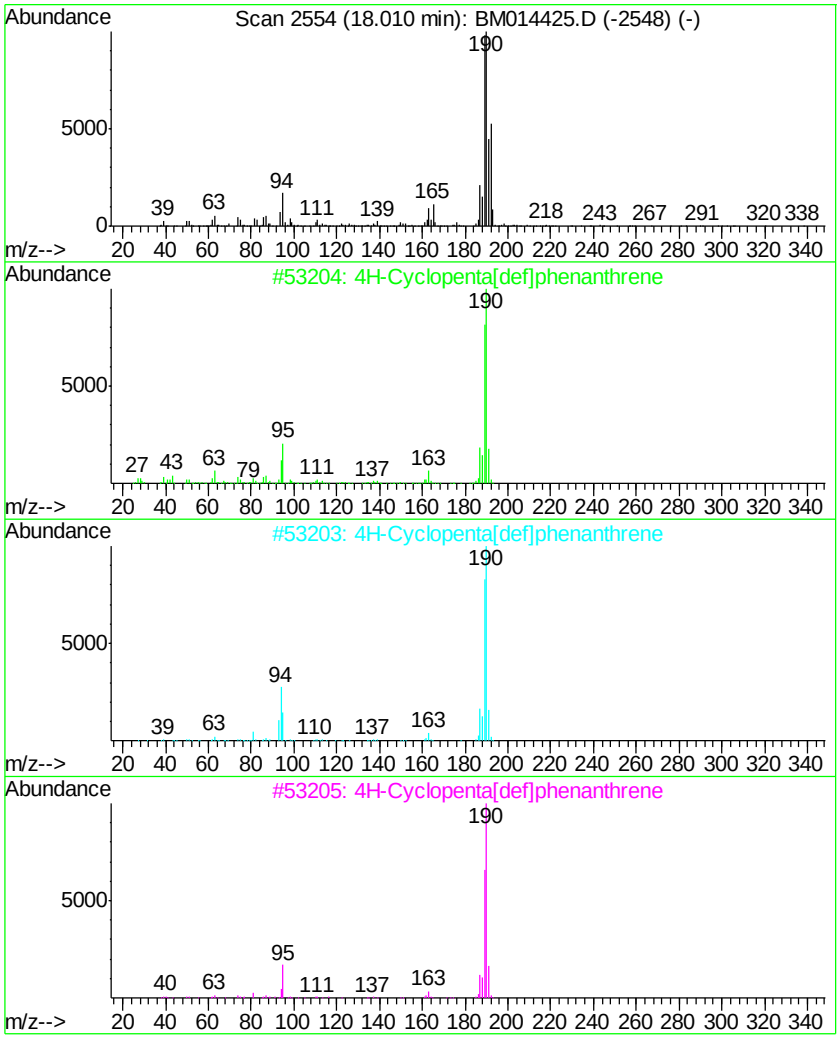
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

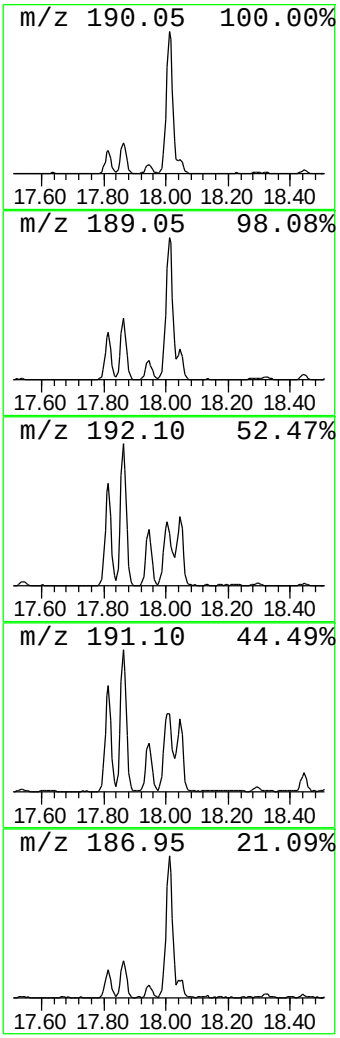
**********

Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 35.21 ng/ul | 4537700 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 52 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 50 |
| 4 | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 47 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 35 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

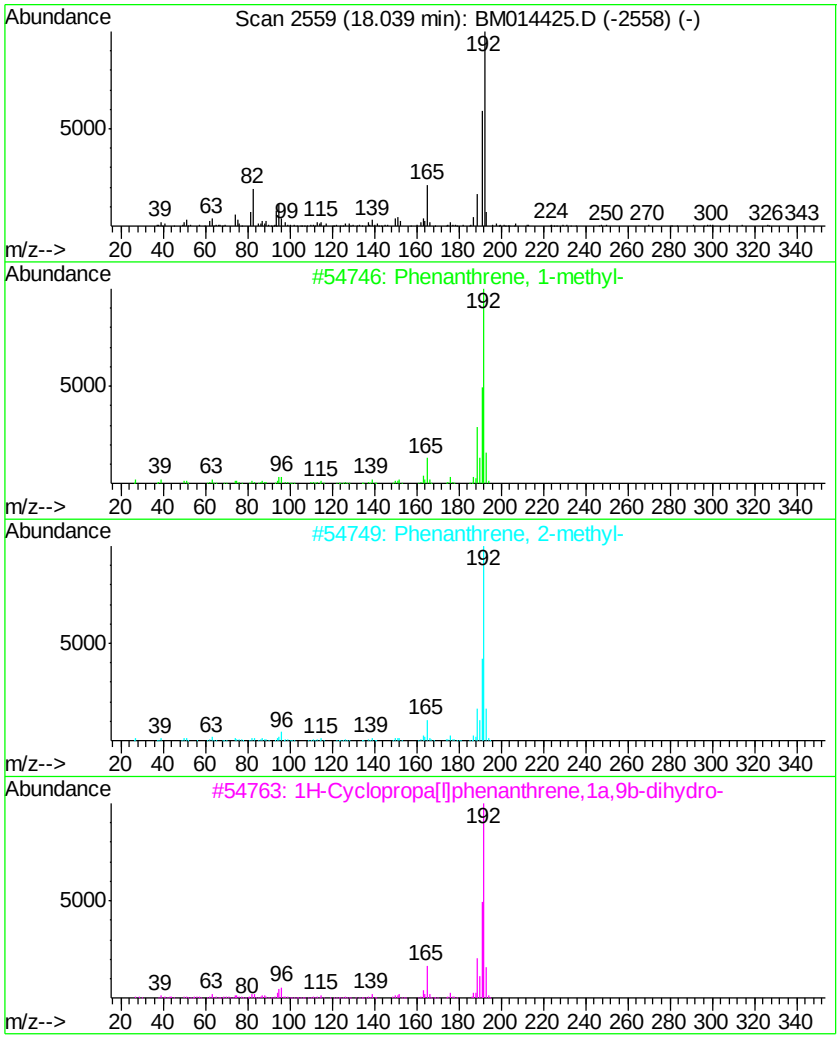
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

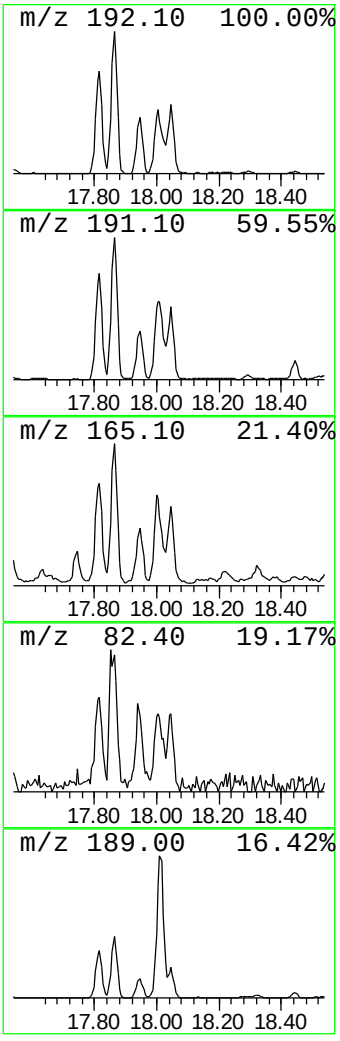
**********

Peak Number 17 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.04 | 11.48 ng/ul | 1480060 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 87 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 87 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 87 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 83 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 83 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

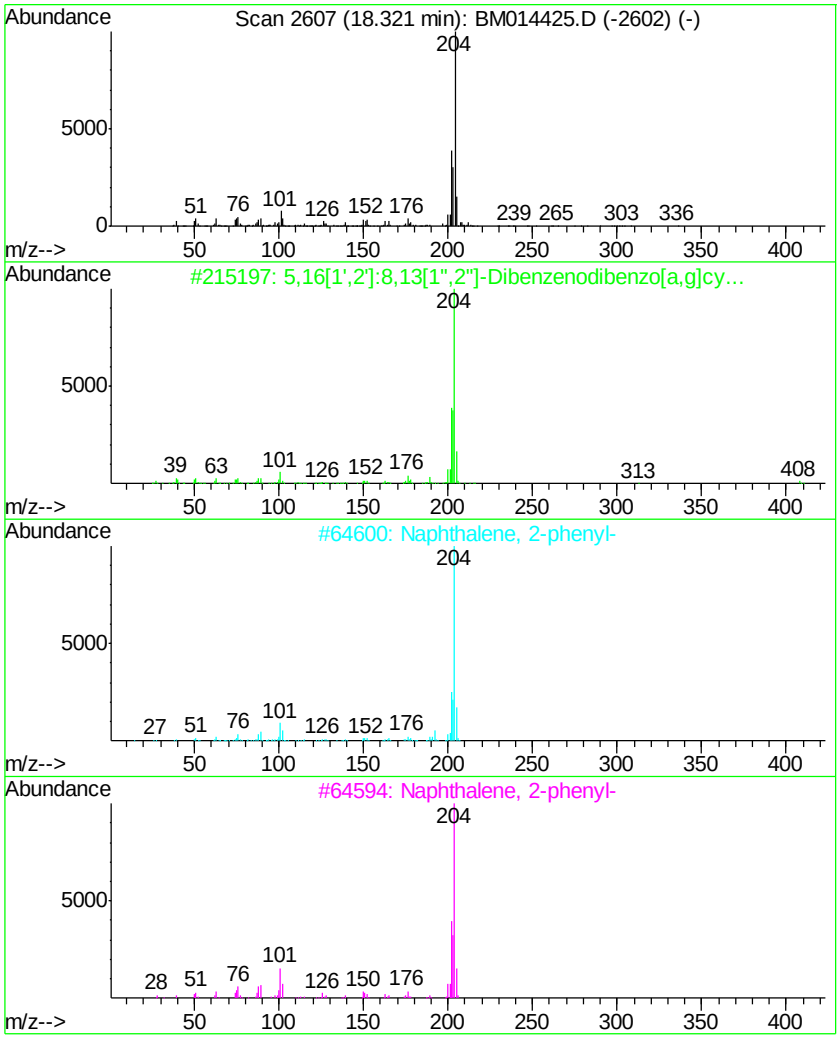
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

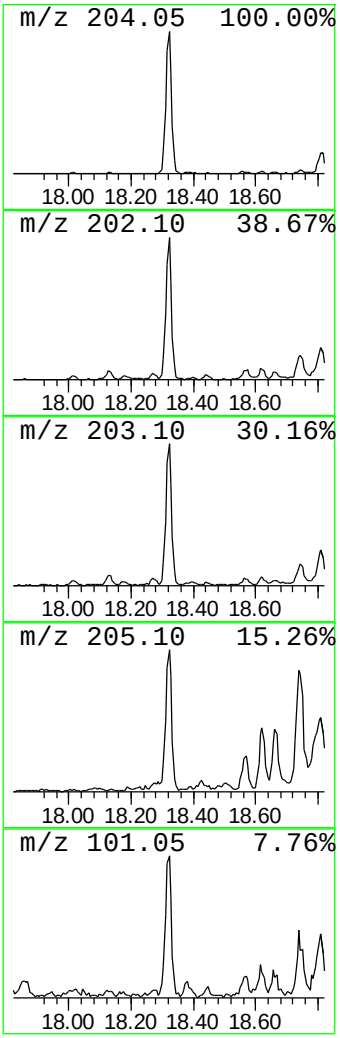
**********

Peak Number 18 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.32 | 14.04 ng/ul | 1808880 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 90 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

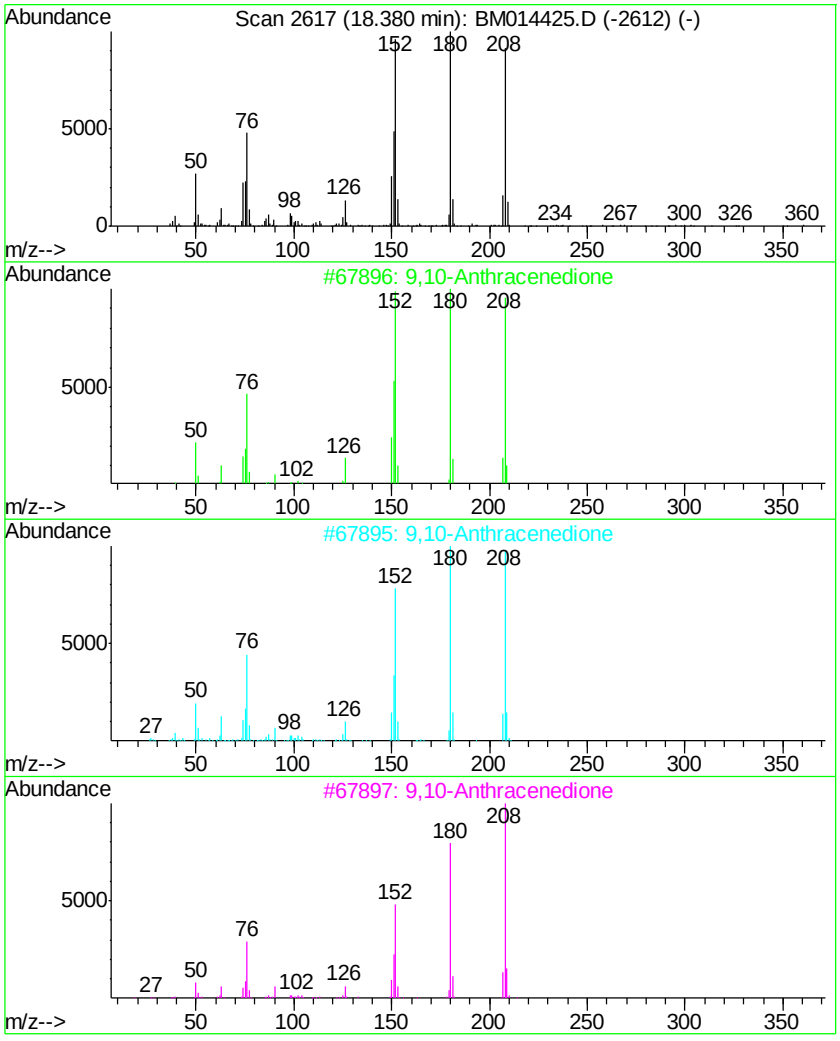
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

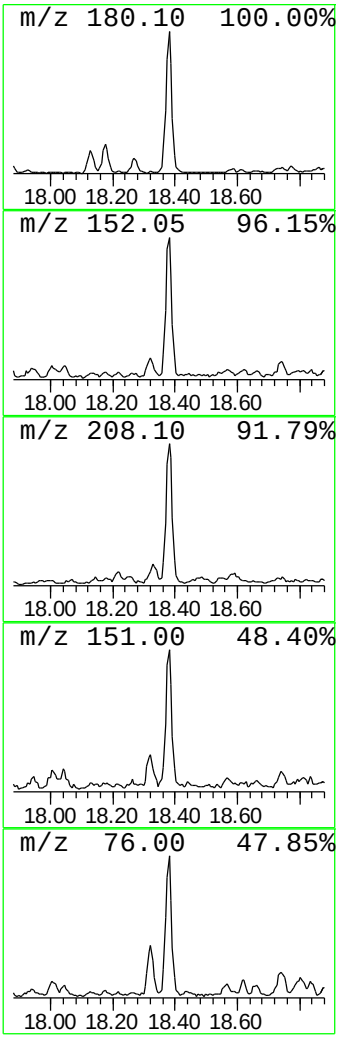
**********

Peak Number 19 9,10-Anthracenedione Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.38 | 9.25 ng/ul | 1191840 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 96 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94 |
| 4 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 83 |
| 5 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

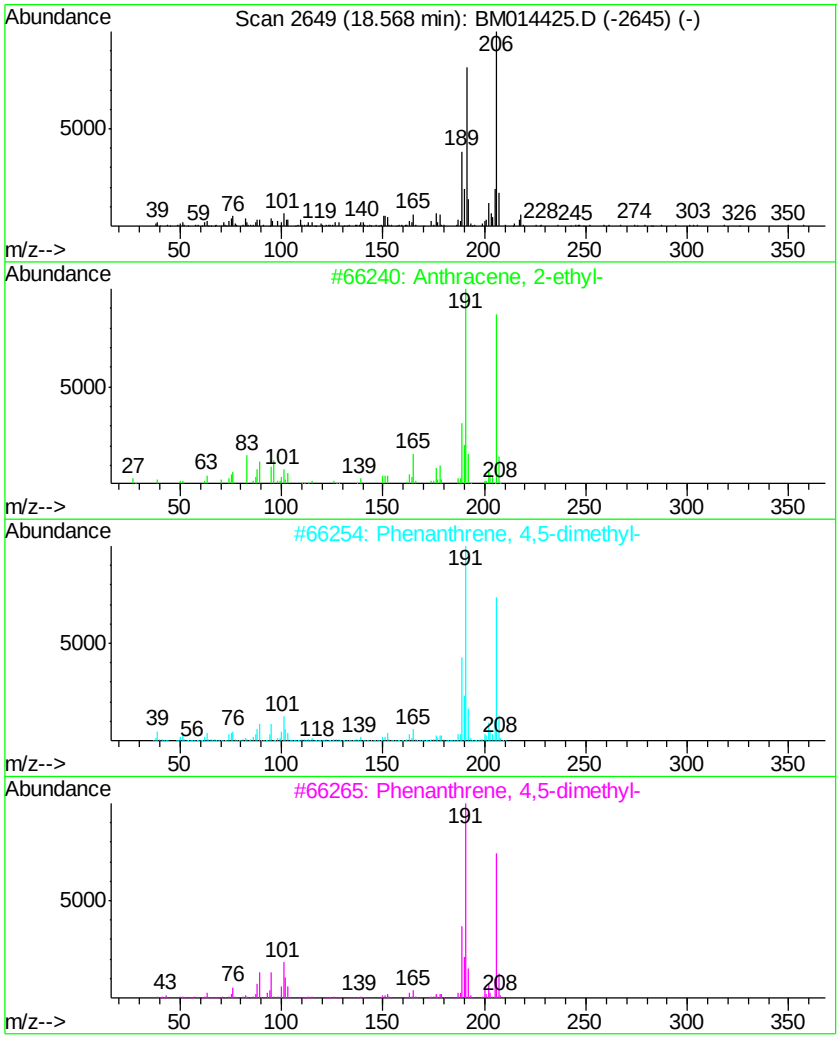
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

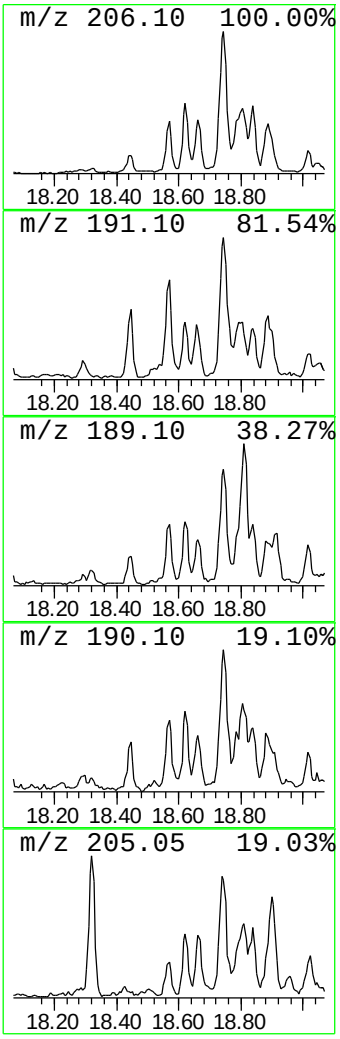
**********

Peak Number 20 Anthracene, 2-ethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.57 | 3.95 ng/ul | 509302 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 95 |
| 2 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 94 |
| 3 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 93 |
| 4 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 93 |
| 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

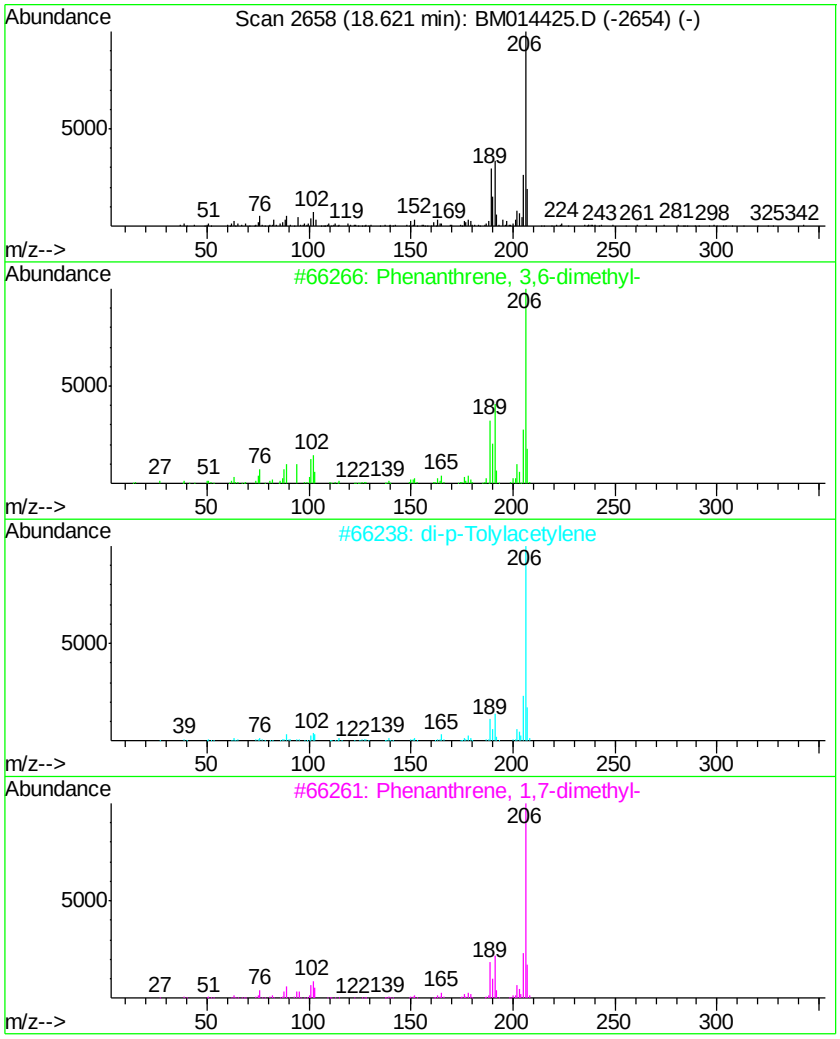
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

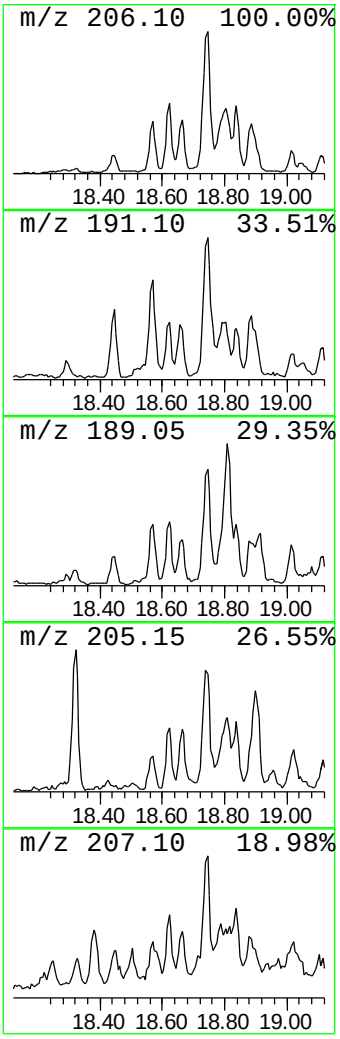
**********

Peak Number 21 Phenanthrene, 3,6-dimethyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.62 | 3.59 ng/ul | 462367 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 97 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 95 |
| 3 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 94 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

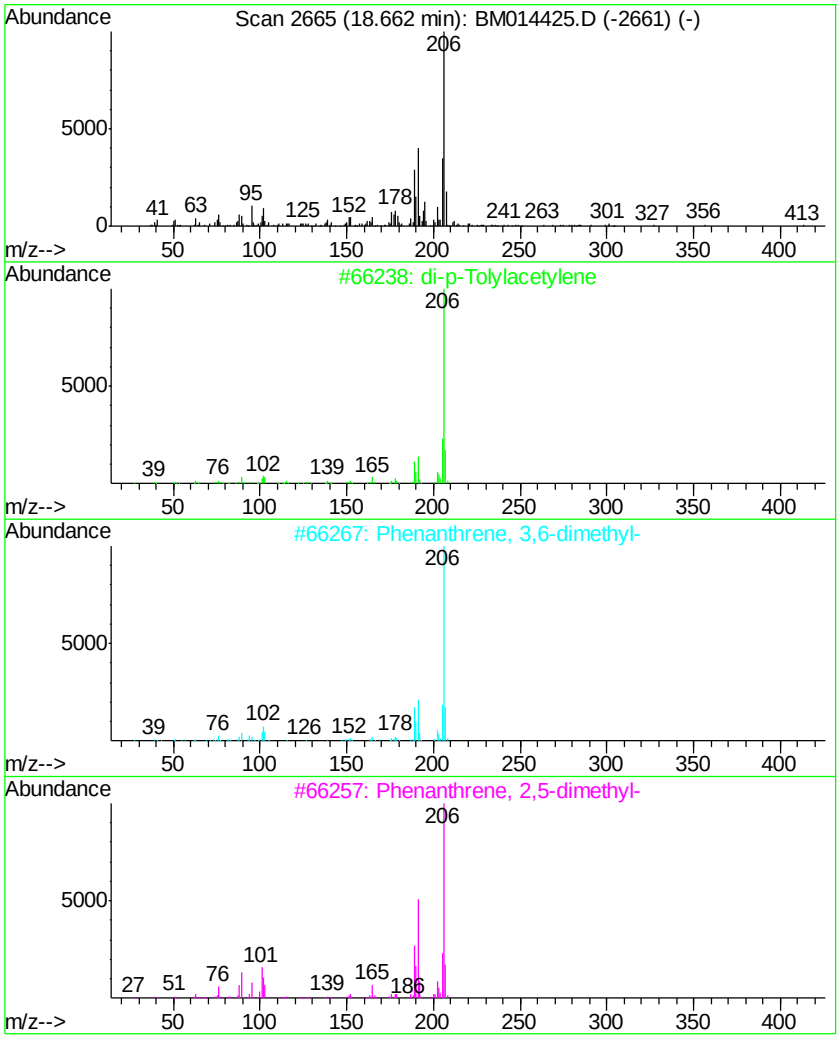
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

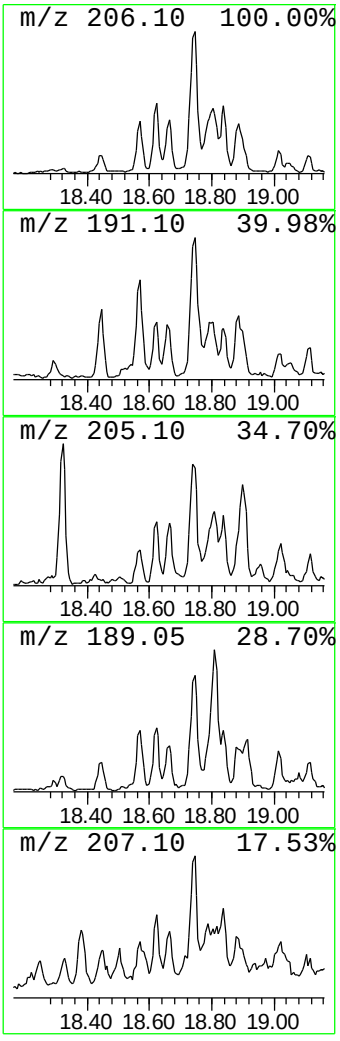
**********

Peak Number 22 di-p-Tolylacetylene Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.66 | 4.09 ng/ul | 526478 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 87 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 83 |
| 4 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 81 |
| 5 | 1,4-Diphenyl-1,3-butadiene | 206 | C16H14 | 000886-65-7 | 81 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

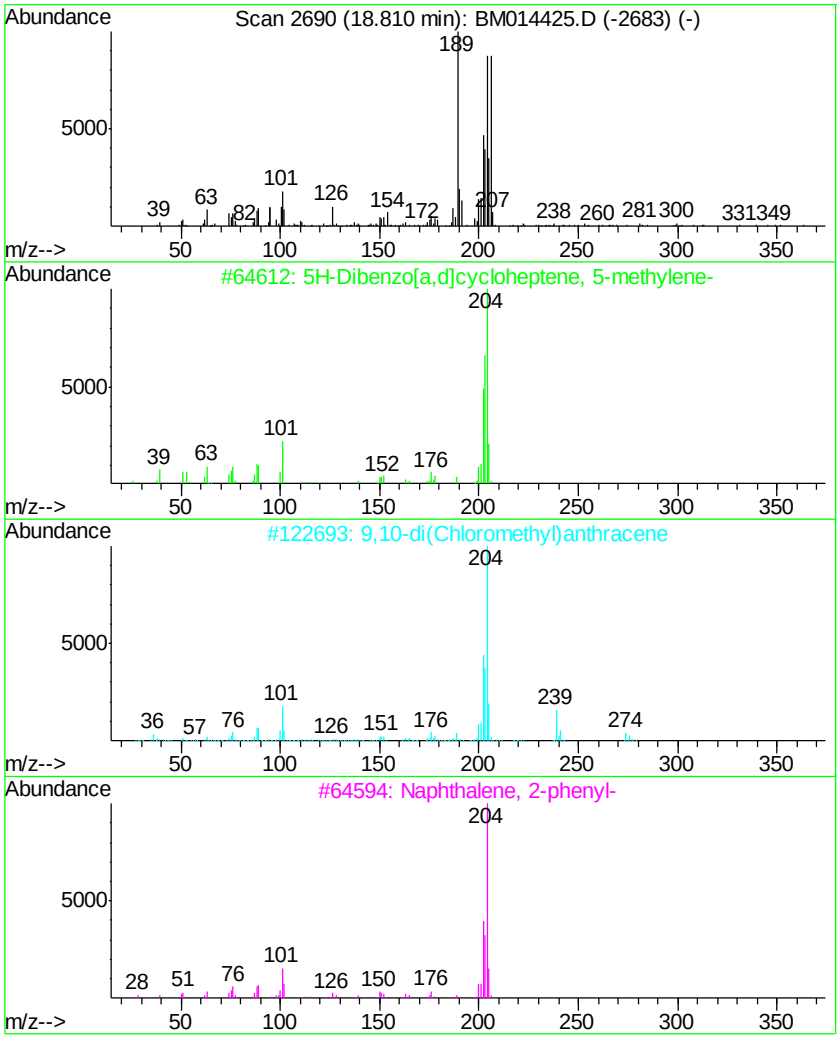
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

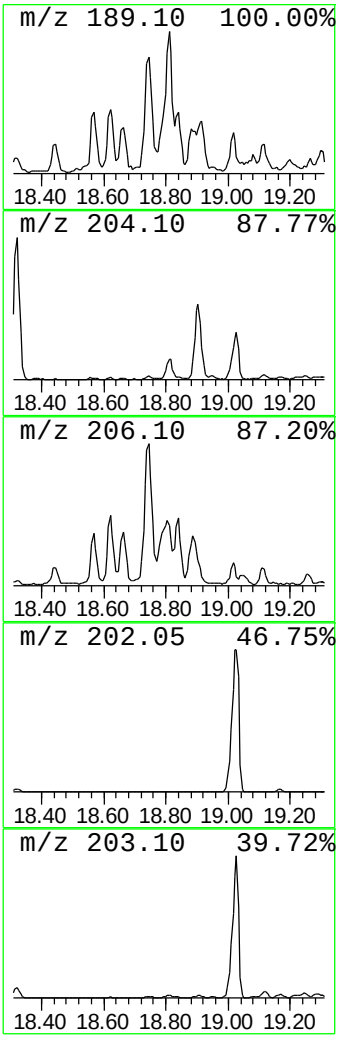
**********

Peak Number 24 5H-Dibenzo[a,d]cycloheptene... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.81 | 10.24 ng/ul | 1320100 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204 | C16H12 | 002975-79-3 | 78 |
| 2 | 9,10-di(Chloromethyl)anthracene | 274 | C16H12Cl2 | 010387-13-0 | 43 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 38 |
| 4 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 38 |
| 5 | Hydrazine, 4-bromo-2-fluorophenyl- | 204 | C6H6BrFN2 | 299440-17-8 | 27 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

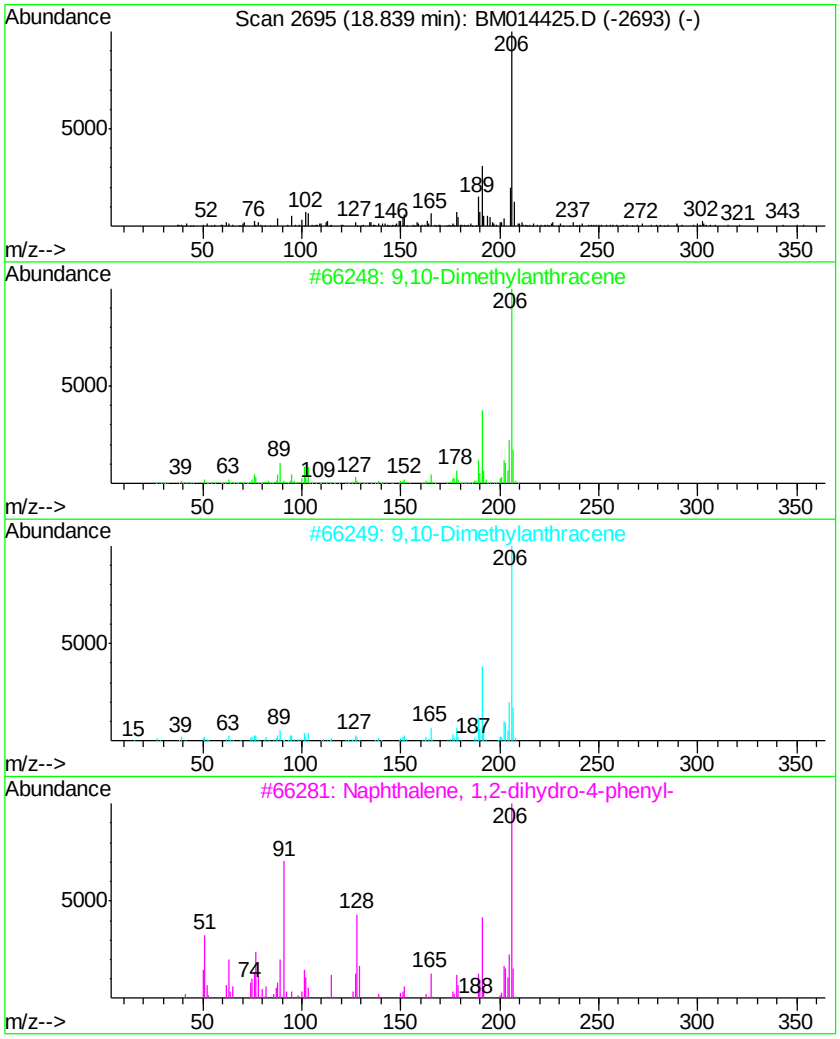
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

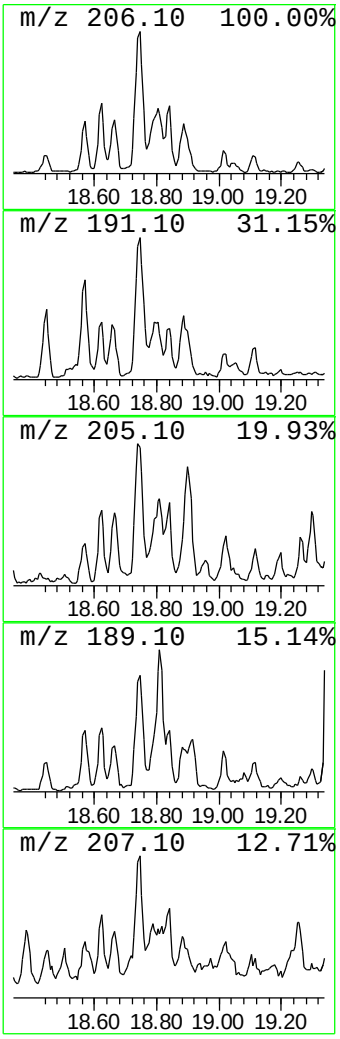
**********

Peak Number 25 9,10-Dimethylanthracene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.84 | 2.94 ng/ul | 378795 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 90 |
| 3 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 86 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 83 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 80 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

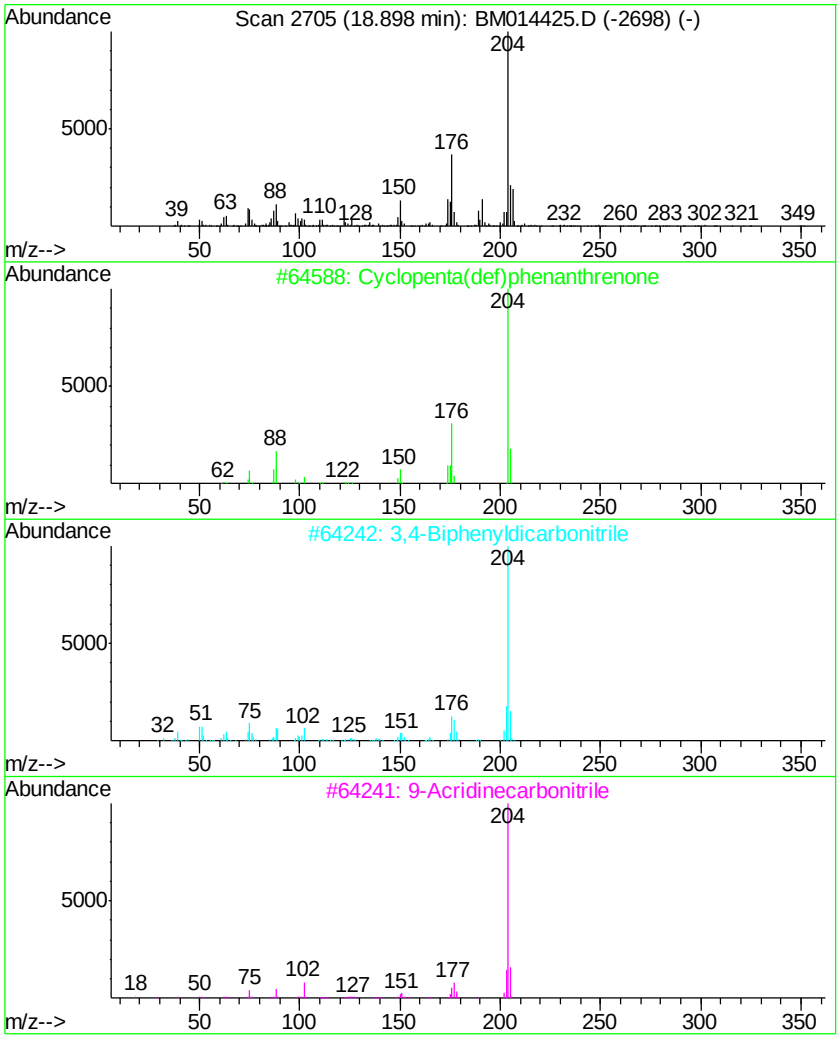
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

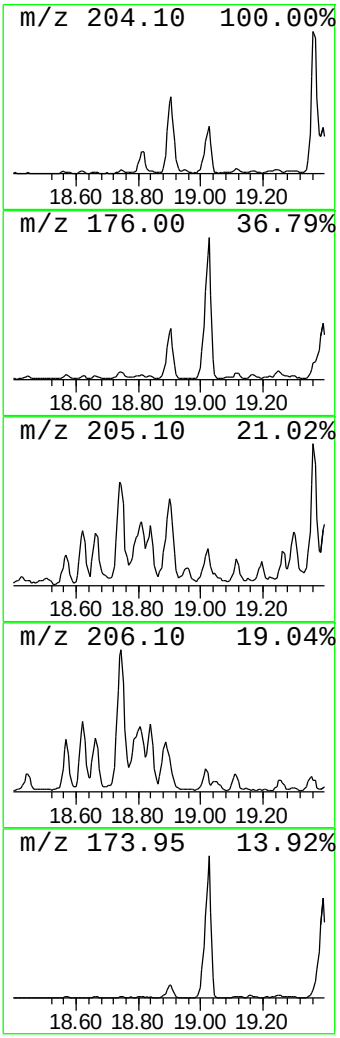
**********

Peak Number 26 Cyclopenta(def)phenanthrenone Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.90 | 13.85 ng/ul | 1785350 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 81 |
| 2 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 64 |
| 3 | 9-Acridinecarbonitrile | 204 | C14H8N2 | 005326-19-2 | 53 |
| 4 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 50 |
| 5 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

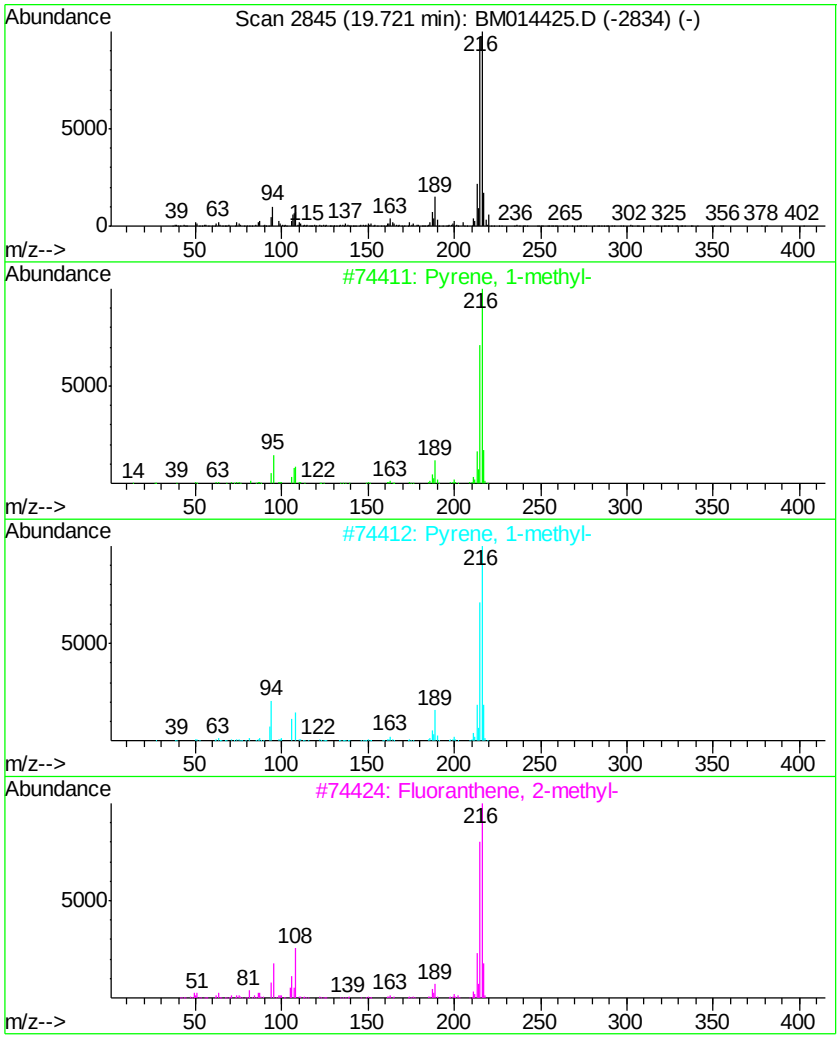
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

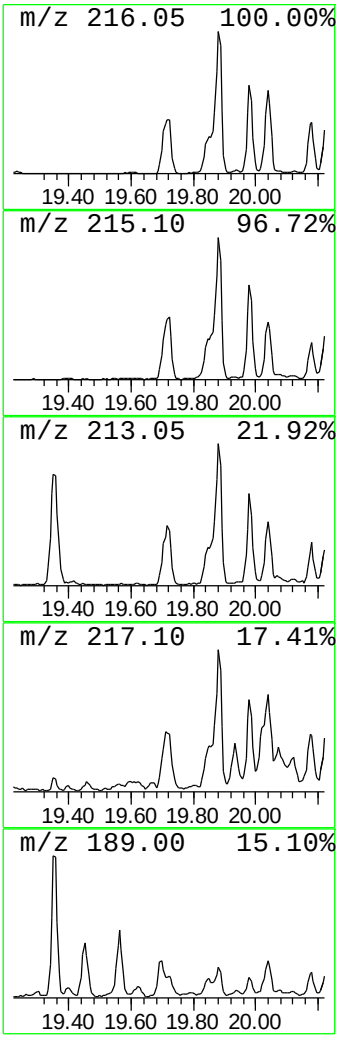
**********

Peak Number 27 Pyrene, 1-methyl- Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.72 | 2.92 ng/ul | 3055390 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 83 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

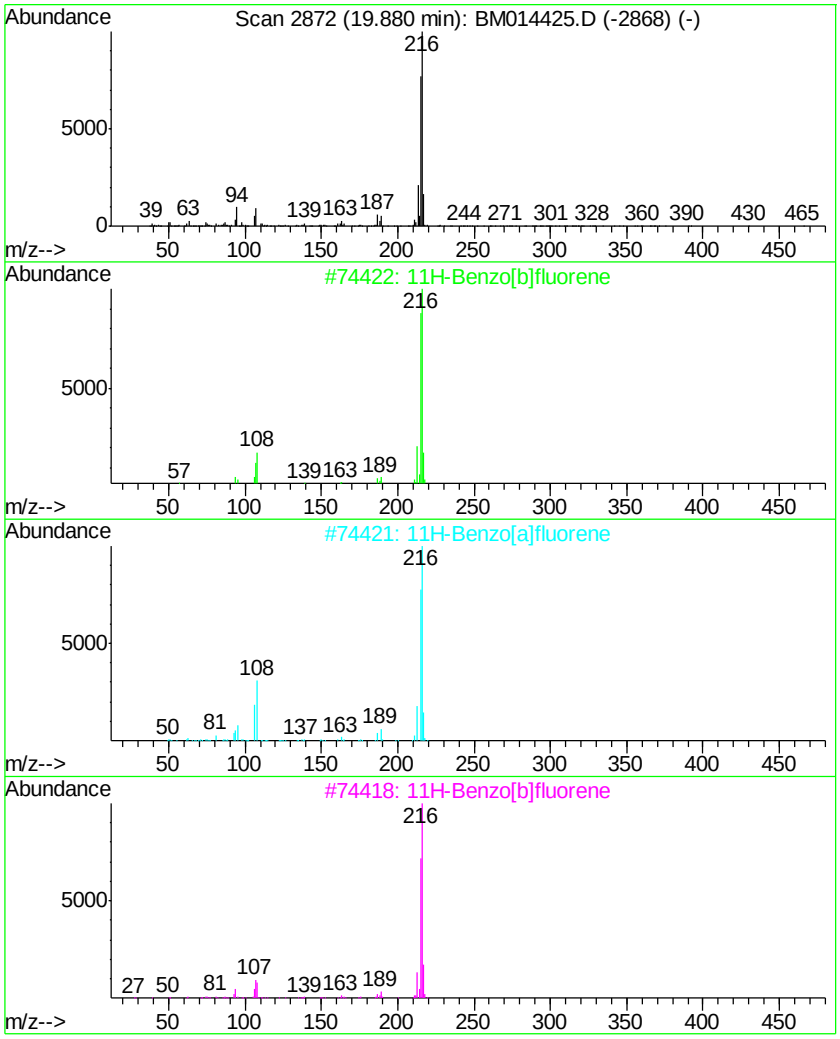
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

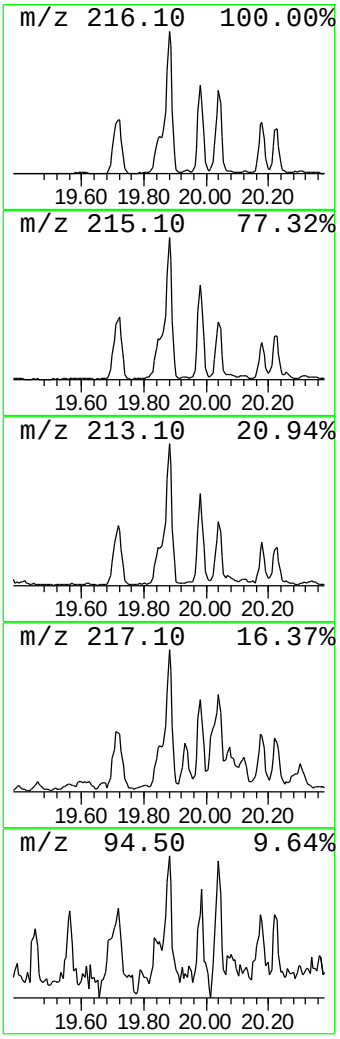
**********

Peak Number 28 11H-Benzo[b]fluorene Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.88 | 3.39 ng/ul | 3552560 | Chrysene-d12 | 21.16 |

| 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 | 90 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

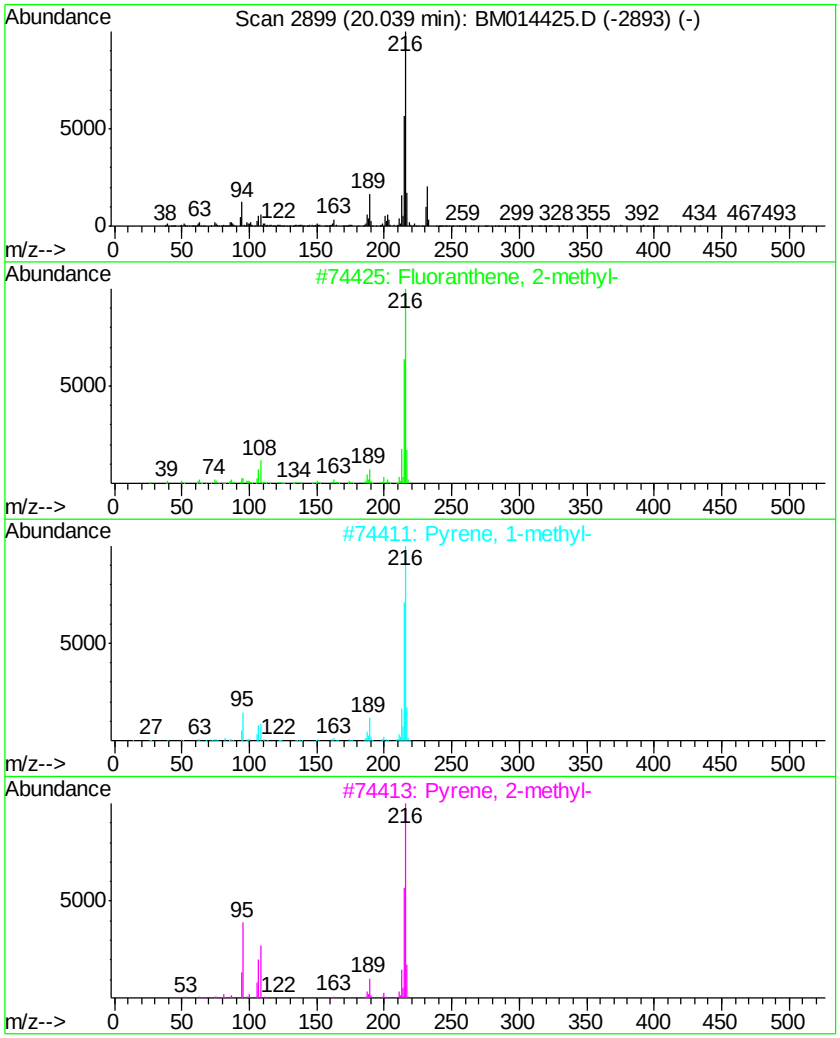
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

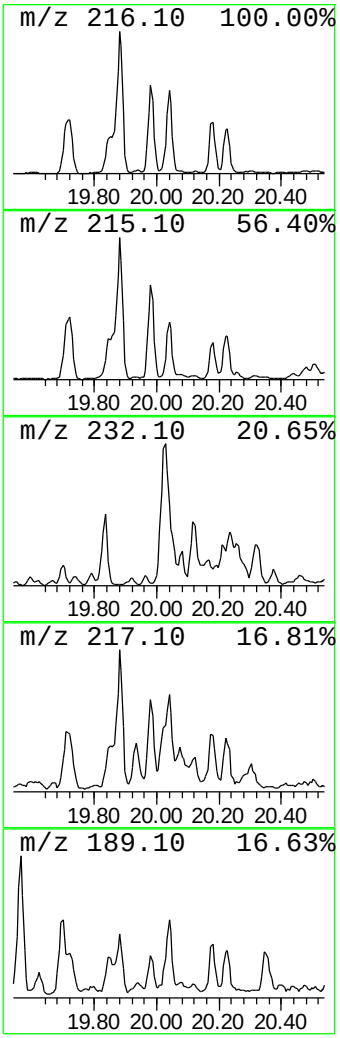
**********

Peak Number 30 Fluoranthene, 2-methyl- Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.04 | 2.68 ng/ul | 2808910 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 76 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM022818\
Data File : BM014425.D
Acq On : 01 Mar 2018 05:45
Operator : SJ/JU
Sample : J1646-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5X6

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA 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 |
| Naphthalene, 1,4-... | 13.49 | 3.7 | ng/ul | 420688 | 3 | 14.17 | 2265020 | 20.0 |
| Dibenzofuran, 4-m... | 15.53 | 6.4 | ng/ul | 721093 | 3 | 14.17 | 2265020 | 20.0 |
| Chamazulene | 15.91 | 2.9 | ng/ul | 372639 | 4 | 16.94 | 2577530 | 20.0 |
| 9H-Fluorene, 1-me... | 16.25 | 6.8 | ng/ul | 879415 | 4 | 16.94 | 2577530 | 20.0 |
| 2,2-Dimethyl-1-ac... | 16.47 | 4.8 | ng/ul | 616141 | 4 | 16.94 | 2577530 | 20.0 |
| 9H-Fluoren-9-one | 16.60 | 5.1 | ng/ul | 662910 | 4 | 16.94 | 2577530 | 20.0 |
| Phenol, 4-(2-phen... | 16.67 | 4.4 | ng/ul | 564078 | 4 | 16.94 | 2577530 | 20.0 |
| Naphtho[1,2-b]thi... | 16.76 | 8.2 | ng/ul | 1053940 | 4 | 16.94 | 2577530 | 20.0 |
| 9H-Fluorene, 9,9-... | 17.14 | 3.0 | ng/ul | 380064 | 4 | 16.94 | 2577530 | 20.0 |
| Dibenzo[a,e]cyclo... | 17.46 | 4.9 | ng/ul | 632903 | 4 | 16.94 | 2577530 | 20.0 |
| Dibenzothiophene,... | 17.52 | 4.5 | ng/ul | 580722 | 4 | 16.94 | 2577530 | 20.0 |
| Anthracene, 1-met... | 17.82 | 20.7 | ng/ul | 2672430 | 4 | 16.94 | 2577530 | 20.0 |
| Phenanthrene, 2-m... | 17.86 | 31.2 | ng/ul | 4015830 | 4 | 16.94 | 2577530 | 20.0 |
| 4H-Cyclopenta[def... | 18.01 | 35.2 | ng/ul | 4537700 | 4 | 16.94 | 2577530 | 20.0 |
| Phenanthrene, 1-m... | 18.04 | 11.5 | ng/ul | 1480060 | 4 | 16.94 | 2577530 | 20.0 |
| 5,16[1',2']:8,13[... | 18.32 | 14.0 | ng/ul | 1808880 | 4 | 16.94 | 2577530 | 20.0 |
| 9,10-Anthracenedione | 18.38 | 9.3 | ng/ul | 1191840 | 4 | 16.94 | 2577530 | 20.0 |
| Anthracene, 2-ethyl- | 18.57 | 4.0 | ng/ul | 509302 | 4 | 16.94 | 2577530 | 20.0 |
| Phenanthrene, 3,6... | 18.62 | 3.6 | ng/ul | 462367 | 4 | 16.94 | 2577530 | 20.0 |
| di-p-Tolylacetylene | 18.66 | 4.1 | ng/ul | 526478 | 4 | 16.94 | 2577530 | 20.0 |
| 5H-Dibenzo[a,d]cy... | 18.81 | 10.2 | ng/ul | 1320100 | 4 | 16.94 | 2577530 | 20.0 |
| 9,10-Dimethylanth... | 18.84 | 2.9 | ng/ul | 378795 | 4 | 16.94 | 2577530 | 20.0 |
| Cyclopenta(def)ph... | 18.90 | 13.9 | ng/ul | 1785350 | 4 | 16.94 | 2577530 | 20.0 |
| Pyrene, 1-methyl- | 19.72 | 2.9 | ng/ul | 3055390 | 5 | 21.16 | 20933700 | 20.0 |
| 11H-Benzo[b]fluorene | 19.88 | 3.4 | ng/ul | 3552560 | 5 | 21.16 | 20933700 | 20.0 |
| Fluoranthene, 2-m... | 20.04 | 2.7 | ng/ul | 2808910 | 5 | 21.16 | 20933700 | 20.0 |