LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG080416.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 | 3.117 | 45 | 47 | 51 | rBV5 | 8468 | 8623 | 0.17% | 0.020% |
| 2 | 3.153 | 51 | 53 | 55 | rBV2 | 5717 | 6629 | 0.13% | 0.016% |
| 3 | 3.370 | 87 | 90 | 92 | rVB4 | 8030 | 7056 | 0.14% | 0.017% |
| 4 | 3.499 | 111 | 112 | 117 | rVB5 | 6670 | 6170 | 0.12% | 0.015% |
| 5 | 3.722 | 148 | 150 | 154 | rVB4 | 4672 | 6078 | 0.12% | 0.014% |
| 6 | 4.010 | 197 | 199 | 205 | rVB6 | 5627 | 6904 | 0.14% | 0.016% |
| 7 | 4.980 | 361 | 364 | 366 | rBV4 | 6162 | 7661 | 0.15% | 0.018% |
| 8 | 5.074 | 376 | 380 | 381 | rVB3 | 5151 | 6306 | 0.13% | 0.015% |
| 9 | 5.502 | 449 | 453 | 455 | rBV4 | 4300 | 6309 | 0.13% | 0.015% |
| 10 | 5.861 | 513 | 514 | 517 | rBV3 | 5837 | 6641 | 0.13% | 0.016% |
| 11 | 6.002 | 536 | 538 | 540 | rVB3 | 6066 | 5791 | 0.12% | 0.014% |
| 12 | 6.084 | 549 | 552 | 555 | rVB4 | 5588 | 6321 | 0.13% | 0.015% |
| 13 | 6.313 | 590 | 591 | 595 | rVB3 | 7184 | 6437 | 0.13% | 0.015% |
| 14 | 6.425 | 606 | 610 | 613 | rBV5 | 5051 | 8799 | 0.17% | 0.021% |
| 15 | 6.607 | 639 | 641 | 646 | rVB4 | 6192 | 9845 | 0.20% | 0.023% |
| 16 | 6.871 | 682 | 686 | 689 | rBV5 | 5139 | 8254 | 0.16% | 0.019% |
| 17 | 7.271 | 749 | 754 | 760 | rBV4 | 19333 | 40871 | 0.81% | 0.096% |
| 18 | 7.429 | 775 | 781 | 784 | rBV4 | 21087 | 36797 | 0.73% | 0.087% |
| 19 | 7.641 | 811 | 817 | 823 | rBV3 | 23165 | 45772 | 0.91% | 0.108% |
| 20 | 7.840 | 848 | 851 | 853 | rBV4 | 4711 | 6200 | 0.12% | 0.015% |
| 21 | 7.946 | 864 | 869 | 870 | rBV3 | 6346 | 6348 | 0.13% | 0.015% |
| 22 | 8.111 | 887 | 897 | 908 | rBV | 601780 | 1018655 | 20.24% | 2.402% |
| 23 | 8.833 | 1014 | 1020 | 1027 | rBV7 | 22269 | 53252 | 1.06% | 0.126% |
| 24 | 9.297 | 1093 | 1099 | 1105 | rVB3 | 23516 | 44408 | 0.88% | 0.105% |
| 25 | 9.421 | 1118 | 1120 | 1125 | rVB5 | 5974 | 7539 | 0.15% | 0.018% |
| 26 | 9.538 | 1137 | 1140 | 1143 | rBV4 | 5050 | 7401 | 0.15% | 0.017% |
| 27 | 10.020 | 1215 | 1222 | 1229 | rBV9 | 24901 | 54552 | 1.08% | 0.129% |
| 28 | 10.366 | 1279 | 1281 | 1284 | rBV4 | 5088 | 6619 | 0.13% | 0.016% |
| 29 | 10.590 | 1313 | 1319 | 1324 | rBV4 | 26124 | 55063 | 1.09% | 0.130% |
| 30 | 10.948 | 1372 | 1380 | 1385 | rBV | 867913 | 1597144 | 31.74% | 3.767% |
| 31 | 10.995 | 1385 | 1388 | 1396 | rVB | 252566 | 425492 | 8.45% | 1.003% |
| 32 | 11.118 | 1407 | 1409 | 1411 | rBV3 | 5477 | 5940 | 0.12% | 0.014% |
| 33 | 11.800 | 1521 | 1525 | 1527 | rBV5 | 13086 | 15849 | 0.31% | 0.037% |
| 34 | 11.917 | 1540 | 1545 | 1547 | rBV6 | 4750 | 6385 | 0.13% | 0.015% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG080416.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.029 | 1561 | 1564 | 1569 | rBV6 | 7246 | 15198 | 0.30% | 0.036% |
| 36 | 12.605 | 1654 | 1662 | 1671 | rBV | 114401 | 203206 | 4.04% | 0.479% |
| 37 | 12.681 | 1671 | 1675 | 1678 | rVB5 | 4275 | 6097 | 0.12% | 0.014% |
| 38 | 12.728 | 1678 | 1683 | 1685 | rBV5 | 10373 | 11838 | 0.24% | 0.028% |
| 39 | 12.828 | 1694 | 1700 | 1706 | rBV2 | 66079 | 120276 | 2.39% | 0.284% |
| 40 | 13.615 | 1829 | 1834 | 1838 | rVB2 | 31696 | 46944 | 0.93% | 0.111% |
| 41 | 13.650 | 1838 | 1840 | 1842 | rBV3 | 5037 | 5611 | 0.11% | 0.013% |
| 42 | 13.803 | 1862 | 1866 | 1873 | rVB4 | 18886 | 40649 | 0.81% | 0.096% |
| 43 | 13.950 | 1884 | 1891 | 1899 | rVB6 | 30496 | 90386 | 1.80% | 0.213% |
| 44 | 14.097 | 1911 | 1916 | 1922 | rBV2 | 53717 | 113256 | 2.25% | 0.267% |
| 45 | 14.150 | 1922 | 1925 | 1926 | rBV2 | 34564 | 29519 | 0.59% | 0.070% |
| 46 | 14.226 | 1935 | 1938 | 1941 | rVB3 | 29306 | 35057 | 0.70% | 0.083% |
| 47 | 14.338 | 1945 | 1957 | 1960 | rBV6 | 34527 | 77897 | 1.55% | 0.184% |
| 48 | 14.478 | 1975 | 1981 | 1984 | rBV2 | 74313 | 144568 | 2.87% | 0.341% |
| 49 | 14.784 | 2022 | 2033 | 2039 | rBV2 | 1439370 | 2393724 | 47.56% | 5.645% |
| 50 | 14.843 | 2039 | 2043 | 2050 | rVB | 295242 | 463030 | 9.20% | 1.092% |
| 51 | 14.990 | 2062 | 2068 | 2072 | rBV9 | 14722 | 32357 | 0.64% | 0.076% |
| 52 | 15.089 | 2083 | 2085 | 2090 | rVB6 | 17602 | 19157 | 0.38% | 0.045% |
| 53 | 15.183 | 2094 | 2101 | 2108 | rBV | 199779 | 350806 | 6.97% | 0.827% |
| 54 | 15.254 | 2108 | 2113 | 2118 | rVB5 | 30632 | 47232 | 0.94% | 0.111% |
| 55 | 15.395 | 2132 | 2137 | 2141 | rBV4 | 29253 | 59340 | 1.18% | 0.140% |
| 56 | 15.448 | 2143 | 2146 | 2151 | rVB5 | 23395 | 34158 | 0.68% | 0.081% |
| 57 | 15.659 | 2179 | 2182 | 2187 | rBV6 | 13069 | 16036 | 0.32% | 0.038% |
| 58 | 15.706 | 2187 | 2190 | 2191 | rBV3 | 11420 | 11424 | 0.23% | 0.027% |
| 59 | 15.777 | 2198 | 2202 | 2206 | rBV3 | 94935 | 138679 | 2.76% | 0.327% |
| 60 | 15.835 | 2206 | 2212 | 2220 | rVB2 | 298412 | 492595 | 9.79% | 1.162% |
| 61 | 15.929 | 2224 | 2228 | 2231 | rBV6 | 19434 | 31424 | 0.62% | 0.074% |
| 62 | 15.959 | 2231 | 2233 | 2236 | rVV4 | 26148 | 30911 | 0.61% | 0.073% |
| 63 | 15.994 | 2236 | 2239 | 2243 | rVB5 | 36545 | 56268 | 1.12% | 0.133% |
| 64 | 16.082 | 2253 | 2254 | 2258 | rBV4 | 18419 | 21540 | 0.43% | 0.051% |
| 65 | 16.129 | 2258 | 2262 | 2268 | rVB2 | 63396 | 103356 | 2.05% | 0.244% |
| 66 | 16.276 | 2283 | 2287 | 2296 | rVB2 | 73751 | 140374 | 2.79% | 0.331% |
| 67 | 16.893 | 2389 | 2392 | 2397 | rVB5 | 37821 | 57099 | 1.13% | 0.135% |
| 68 | 17.198 | 2439 | 2444 | 2451 | rVB2 | 146140 | 240928 | 4.79% | 0.568% |
| 69 | 17.263 | 2452 | 2455 | 2462 | rVB7 | 44094 | 84430 | 1.68% | 0.199% |
| 70 | 17.363 | 2468 | 2472 | 2480 | rVB | 134196 | 219621 | 4.36% | 0.518% |
| 71 | 17.545 | 2497 | 2503 | 2507 | rBV2 | 1832636 | 2907978 | 57.78% | 6.858% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG080416.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.592 | 2507 | 2511 | 2517 | rVV | 2341409 | 3572855 | 70.99% | 8.426% |
| 73 | 17.645 | 2517 | 2520 | 2522 | rVV | 131937 | 187633 | 3.73% | 0.442% |
| 74 | 17.680 | 2522 | 2526 | 2531 | rVB | 380826 | 566908 | 11.26% | 1.337% |
| 75 | 17.956 | 2566 | 2573 | 2580 | rVB3 | 250157 | 419476 | 8.34% | 0.989% |
| 76 | 18.068 | 2588 | 2592 | 2597 | rBV3 | 51317 | 73437 | 1.46% | 0.173% |
| 77 | 18.138 | 2599 | 2604 | 2611 | rVB4 | 83909 | 159939 | 3.18% | 0.377% |
| 78 | 18.426 | 2648 | 2653 | 2657 | rBV | 400553 | 580640 | 11.54% | 1.369% |
| 79 | 18.473 | 2657 | 2661 | 2668 | rVB | 497489 | 744652 | 14.80% | 1.756% |
| 80 | 18.555 | 2672 | 2675 | 2680 | rVB | 96415 | 132851 | 2.64% | 0.313% |
| 81 | 18.620 | 2680 | 2686 | 2690 | rBV3 | 420446 | 873196 | 17.35% | 2.059% |
| 82 | 18.655 | 2690 | 2692 | 2697 | rVB | 277574 | 332155 | 6.60% | 0.783% |
| 83 | 18.920 | 2733 | 2737 | 2741 | rBV | 220477 | 307027 | 6.10% | 0.724% |
| 84 | 18.967 | 2741 | 2745 | 2753 | rVB | 366377 | 553056 | 10.99% | 1.304% |
| 85 | 19.213 | 2785 | 2787 | 2791 | rVB | 117286 | 120113 | 2.39% | 0.283% |
| 86 | 19.254 | 2791 | 2794 | 2798 | rVB2 | 81396 | 103581 | 2.06% | 0.244% |
| 87 | 19.337 | 2804 | 2808 | 2812 | rBV | 279893 | 408783 | 8.12% | 0.964% |
| 88 | 19.483 | 2829 | 2833 | 2837 | rVB3 | 136582 | 216170 | 4.30% | 0.510% |
| 89 | 19.607 | 2848 | 2854 | 2859 | rVB | 2639885 | 3880718 | 77.11% | 9.152% |
| 90 | 19.695 | 2865 | 2869 | 2874 | rVB4 | 179846 | 287890 | 5.72% | 0.679% |
| 91 | 19.936 | 2905 | 2910 | 2911 | rBV2 | 532820 | 713522 | 14.18% | 1.683% |
| 92 | 19.965 | 2911 | 2915 | 2922 | rVV | 2205460 | 3412885 | 67.81% | 8.049% |
| 93 | 20.030 | 2924 | 2926 | 2934 | rVB2 | 188690 | 270492 | 5.37% | 0.638% |
| 94 | 20.453 | 2996 | 2998 | 3003 | rVB | 435327 | 528324 | 10.50% | 1.246% |
| 95 | 20.558 | 3012 | 3016 | 3019 | rBV | 263332 | 346715 | 6.89% | 0.818% |
| 96 | 20.758 | 3047 | 3050 | 3054 | rBV | 202782 | 225498 | 4.48% | 0.532% |
| 97 | 21.569 | 3184 | 3188 | 3198 | rVB2 | 934033 | 1766539 | 35.10% | 4.166% |
| 98 | 21.863 | 3231 | 3238 | 3244 | rBV2 | 2056053 | 5032684 | 100.00% | 11.869% |
| 99 | 21.915 | 3244 | 3247 | 3255 | rVB | 968603 | 1644973 | 32.69% | 3.879% |
| 100 | 25.264 | 3811 | 3817 | 3826 | rVB3 | 982999 | 2499356 | 49.66% | 5.894% |

Sum of corrected areas: 42403148

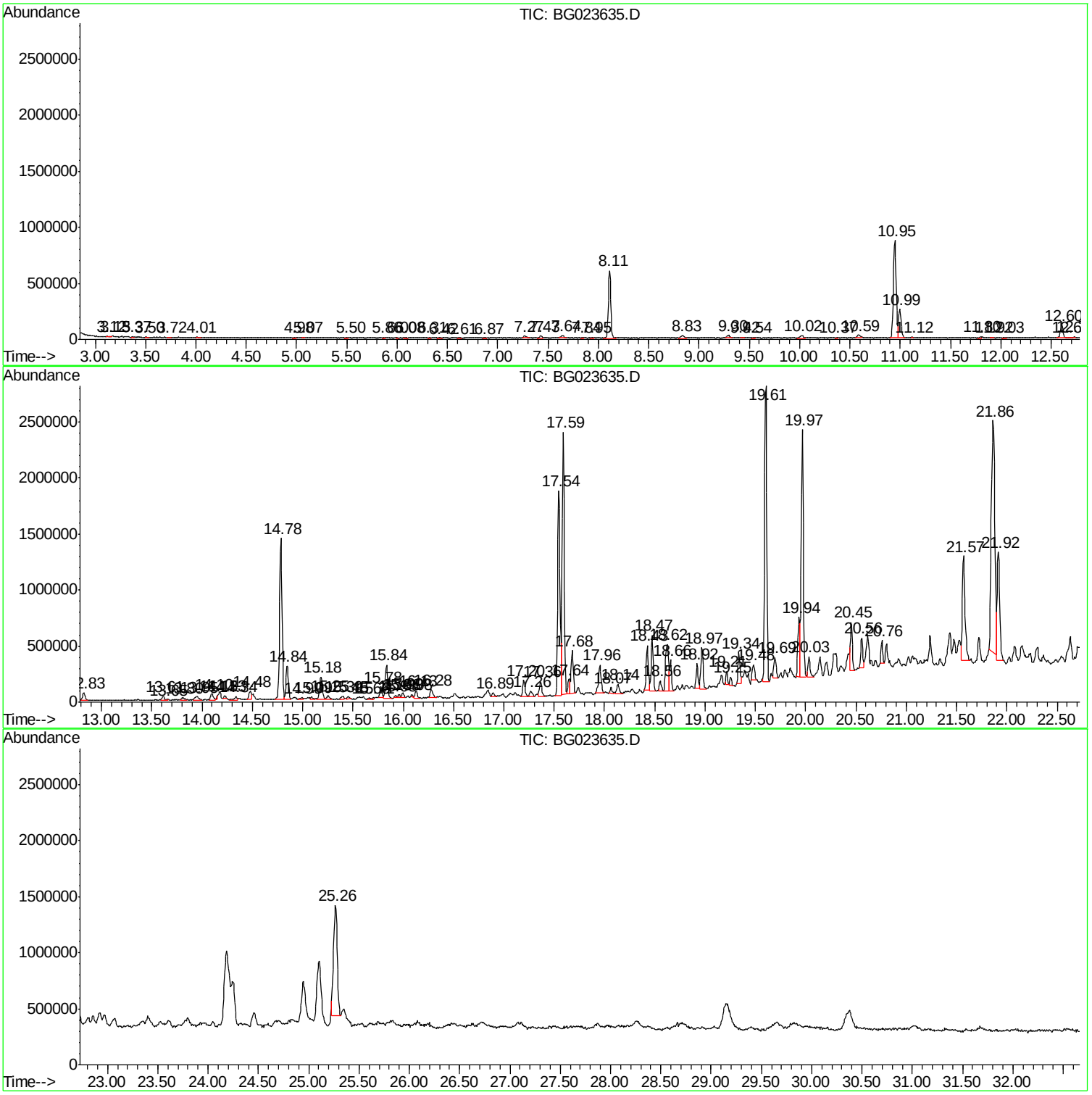
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

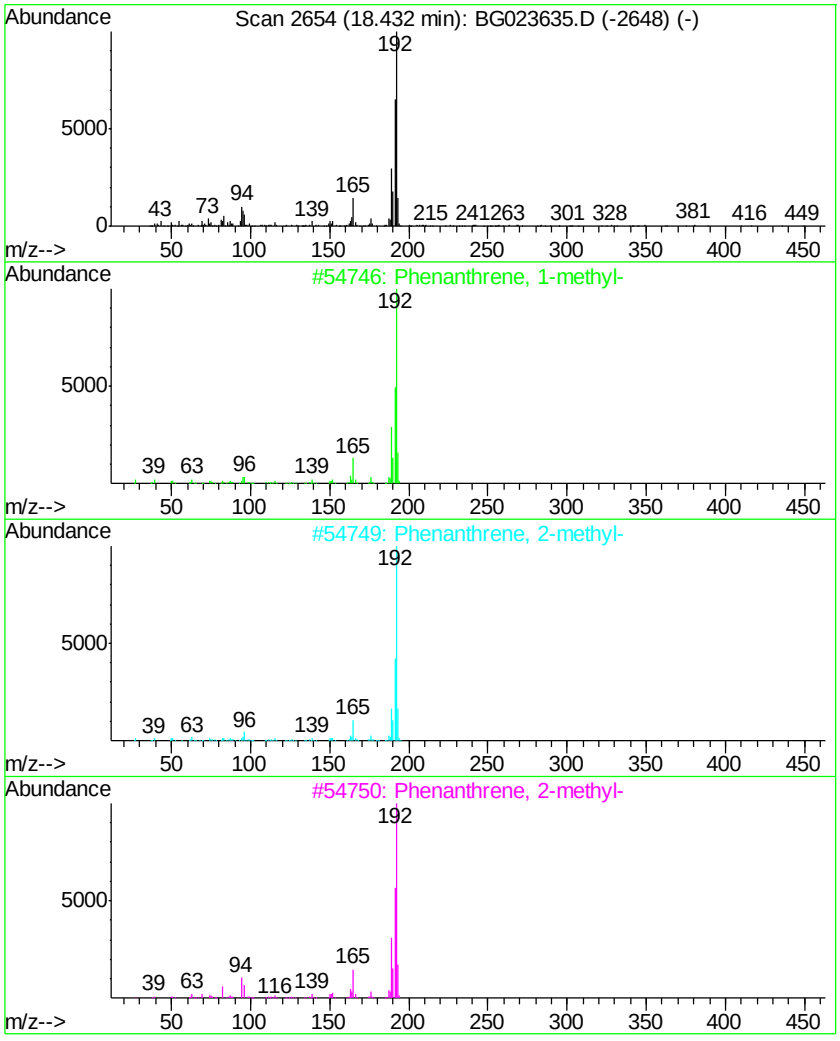
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

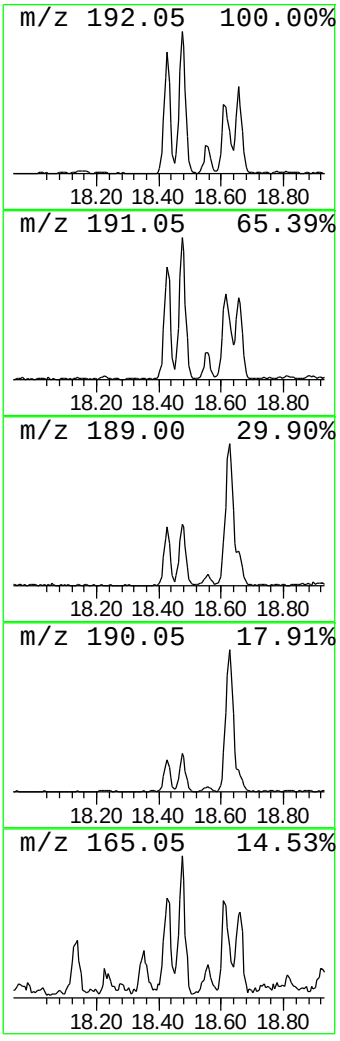
**********

Peak Number 1 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.43 | 3.99 ng/ul | 580640 | Phenanthrene-d10 | 17.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 91 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

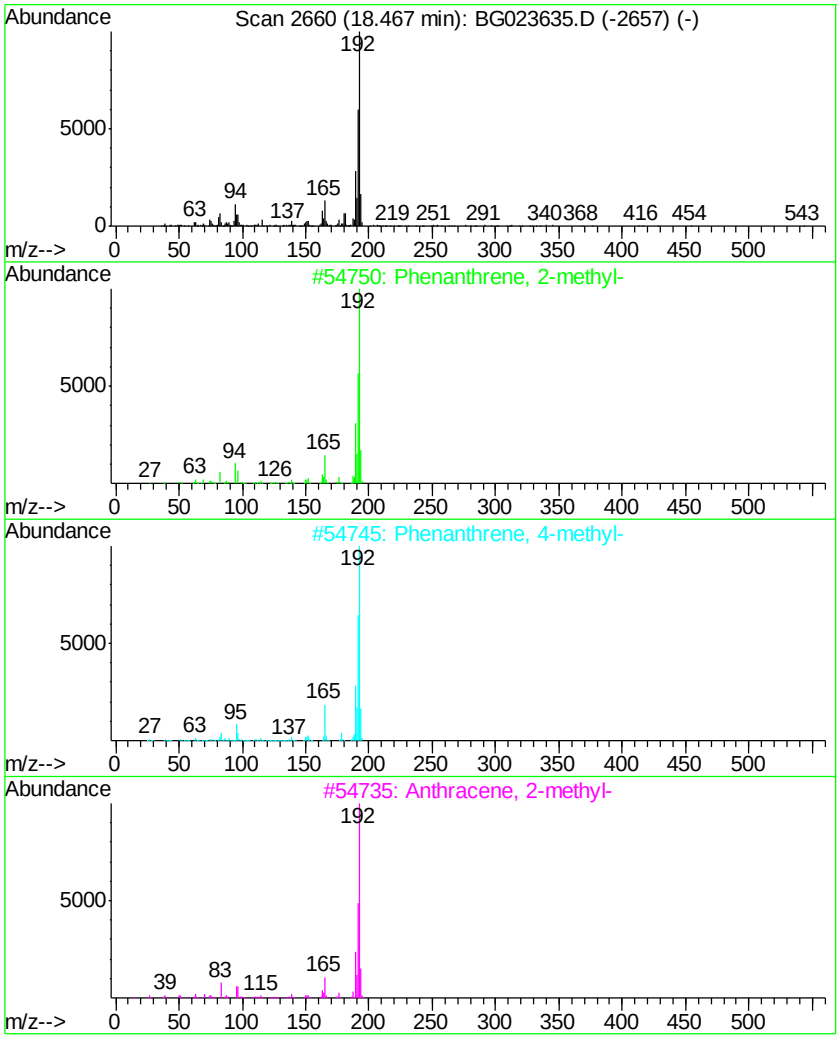
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

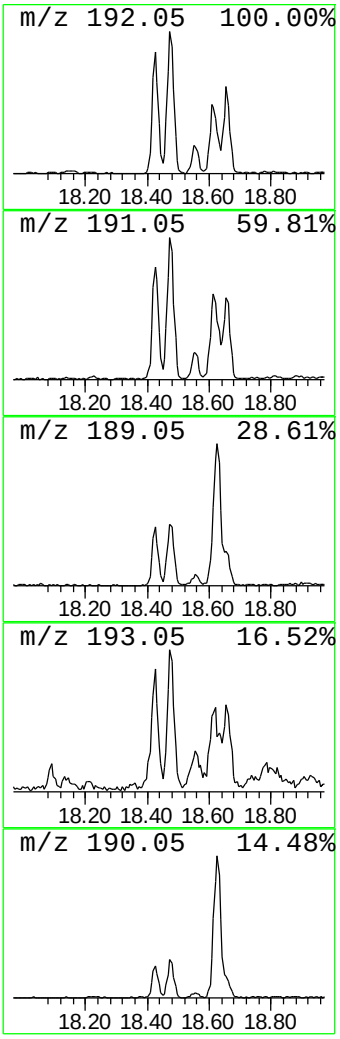
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.47 | 5.12 ng/ul | 744652 | Phenanthrene-d10 | 17.54 |

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

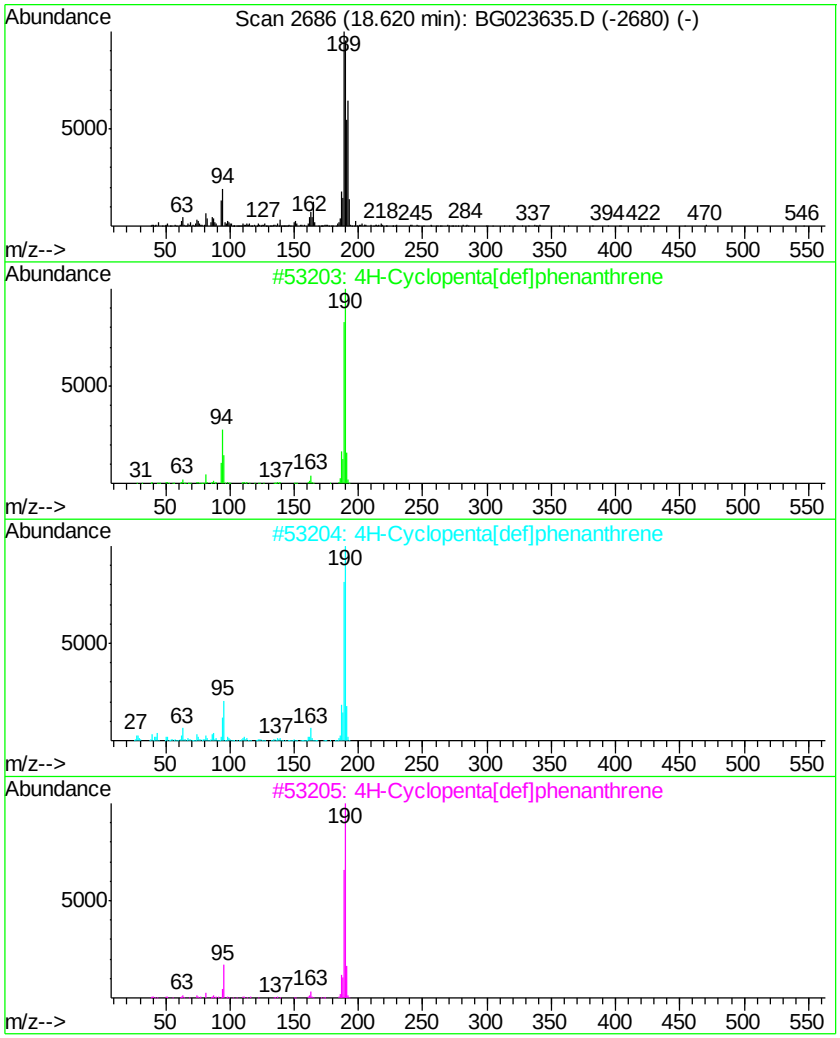
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

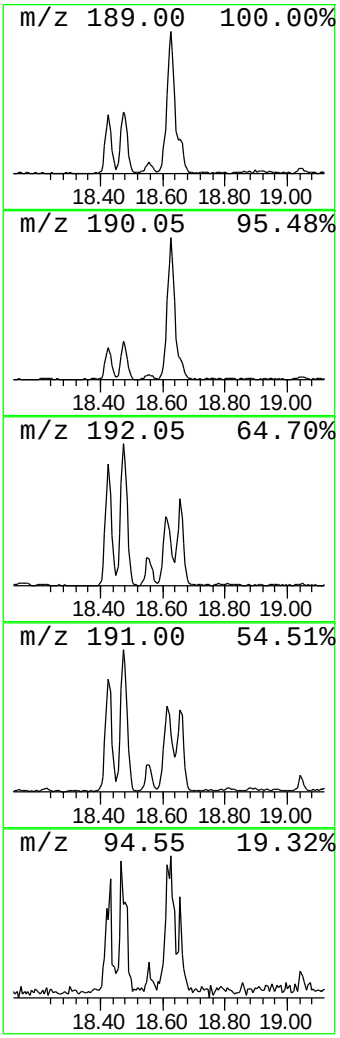
**********

Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.62 | 6.01 ng/ul | 873196 | Phenanthrene-d10 | 17.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 43 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 38 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

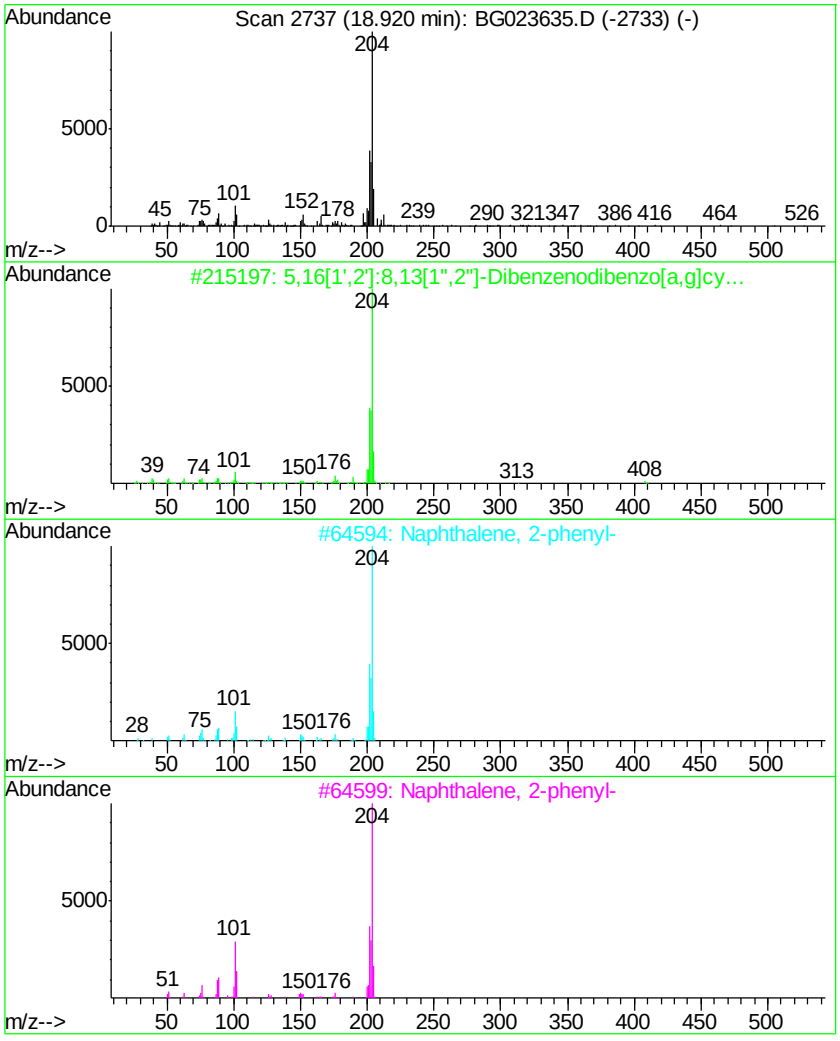
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

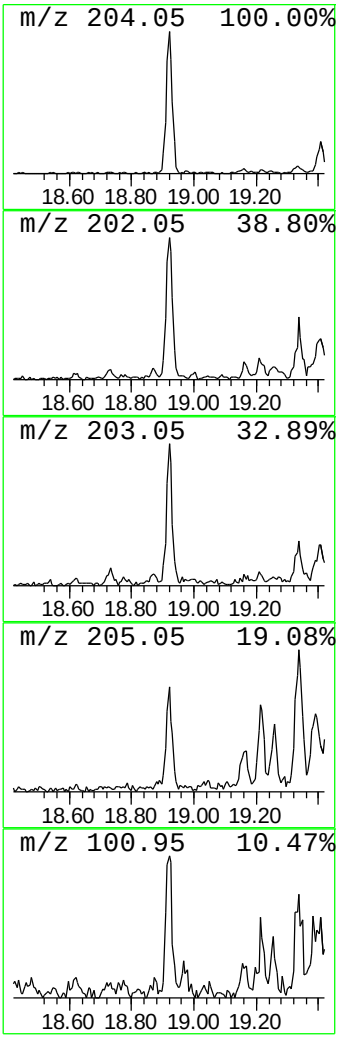
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.92 | 2.11 ng/ul | 307027 | Phenanthrene-d10 | 17.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 64 |
| 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 | 62 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 58 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

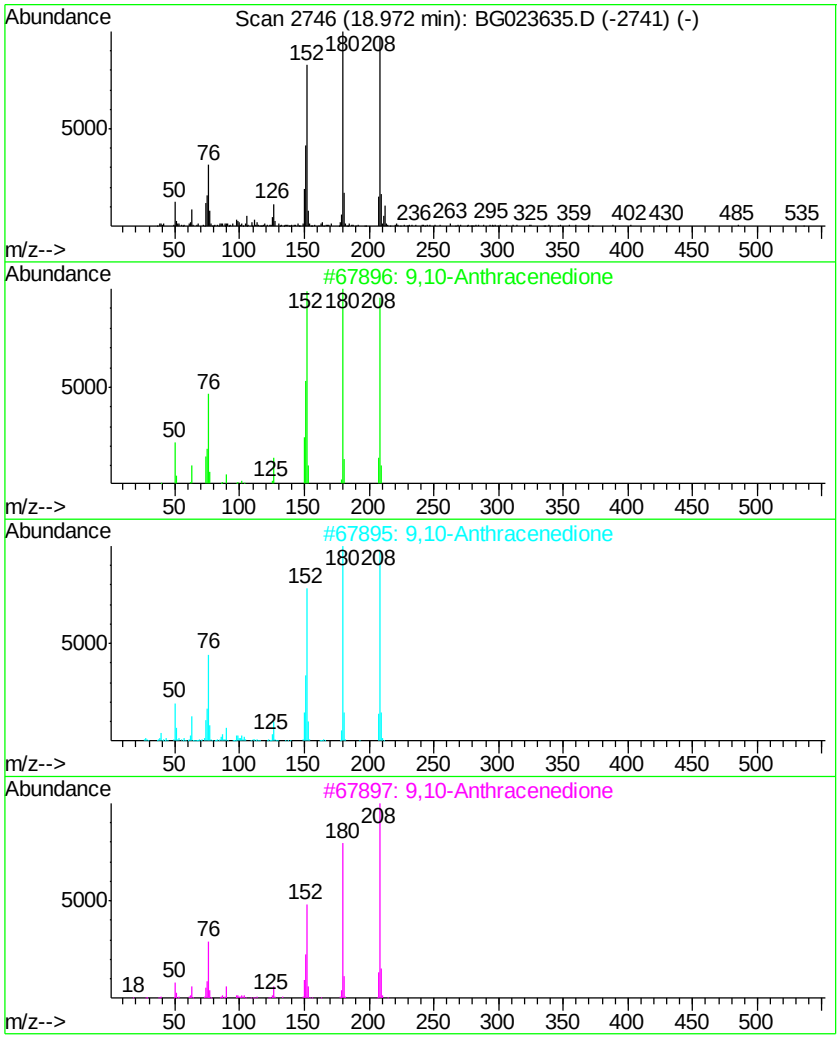
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

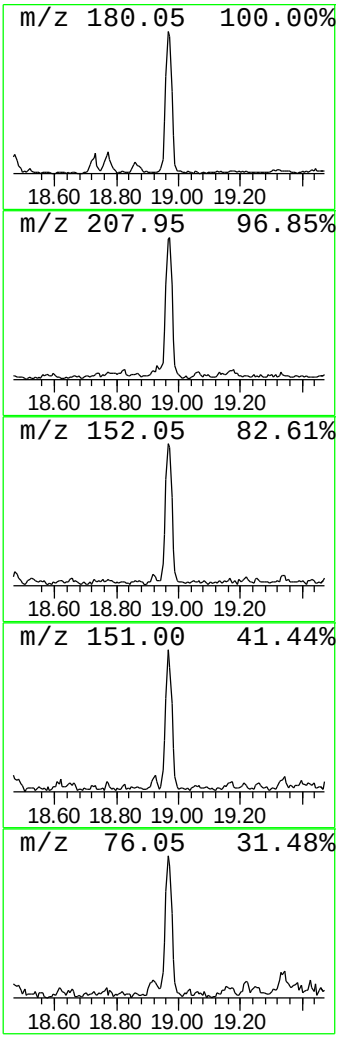
**********

Peak Number 6 9,10-Anthracenedione Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.97 | 3.80 ng/ul | 553056 | Phenanthrene-d10 | 17.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93 |
| 4 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 60 |
| 5 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 55 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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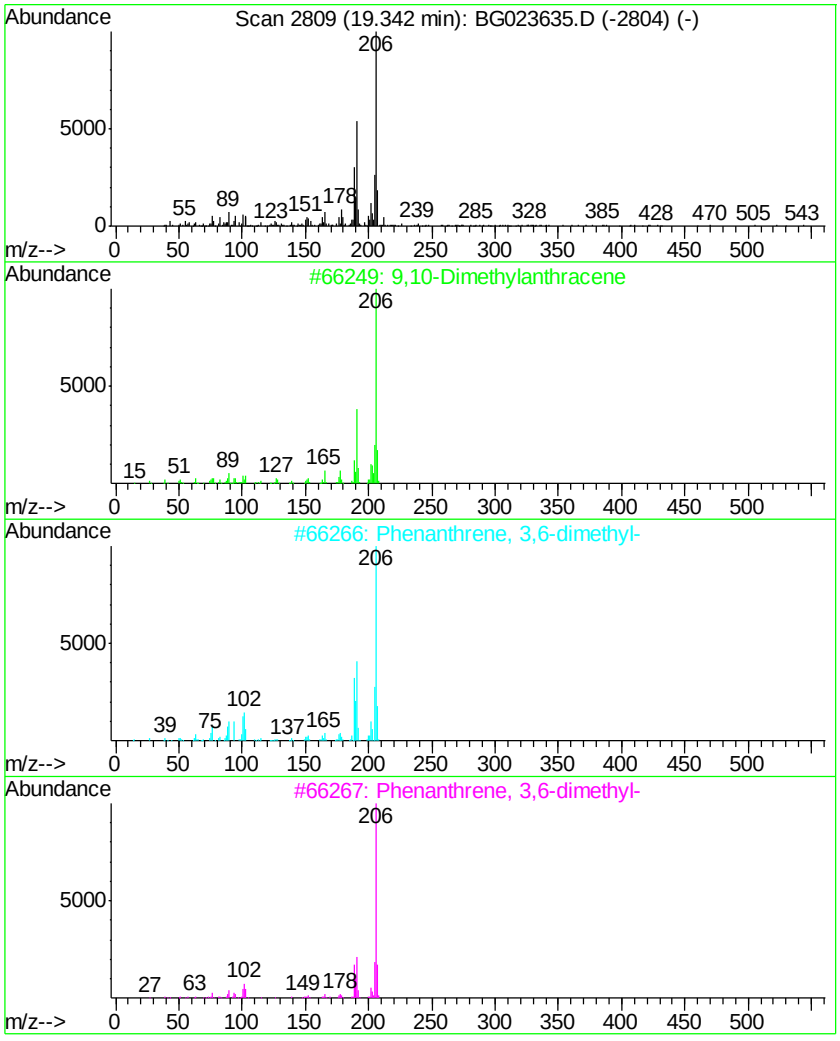
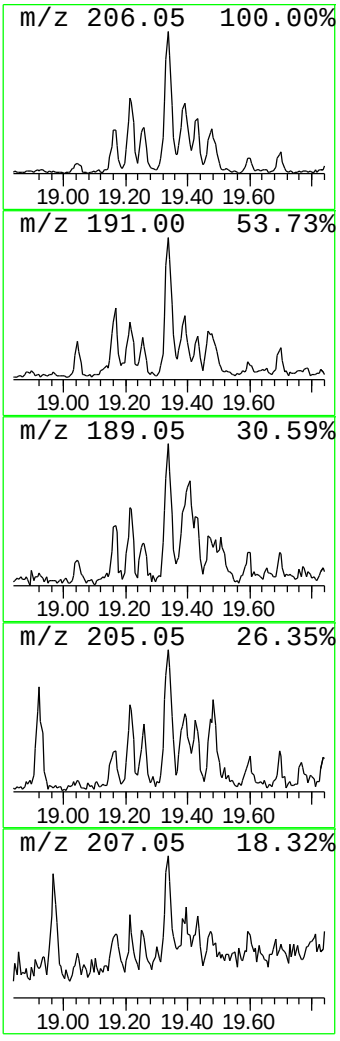
Peak Number 7 9,10-Dimethylanthracene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.34 | 2.81 ng/ul | 408783 | Phenanthrene-d10 | 17.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 4 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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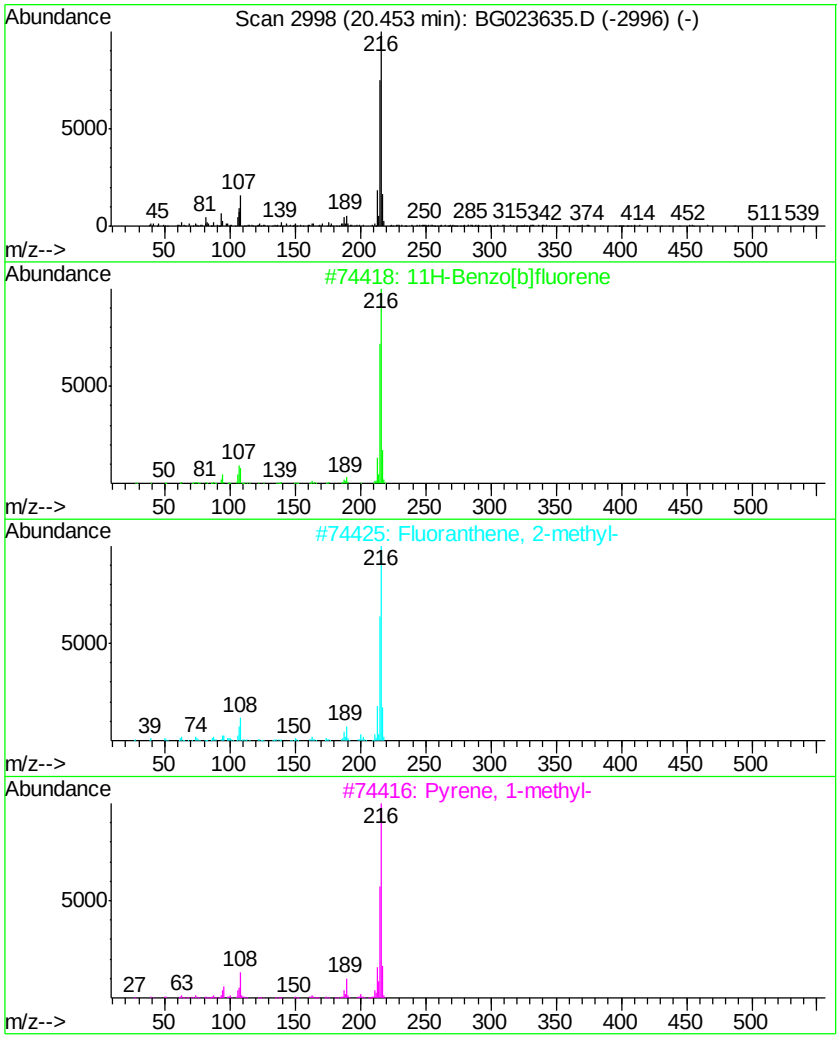
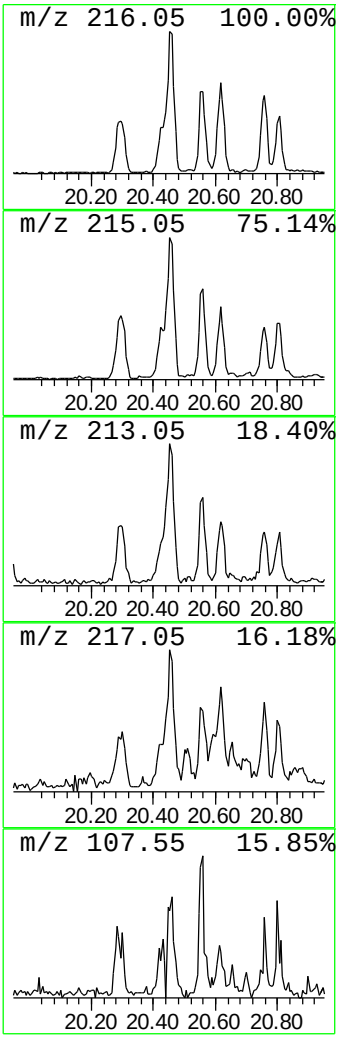
Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.45 | 2.10 ng/ul | 528324 | Chrysene-d12 | 21.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 80 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 74 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 72 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION

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

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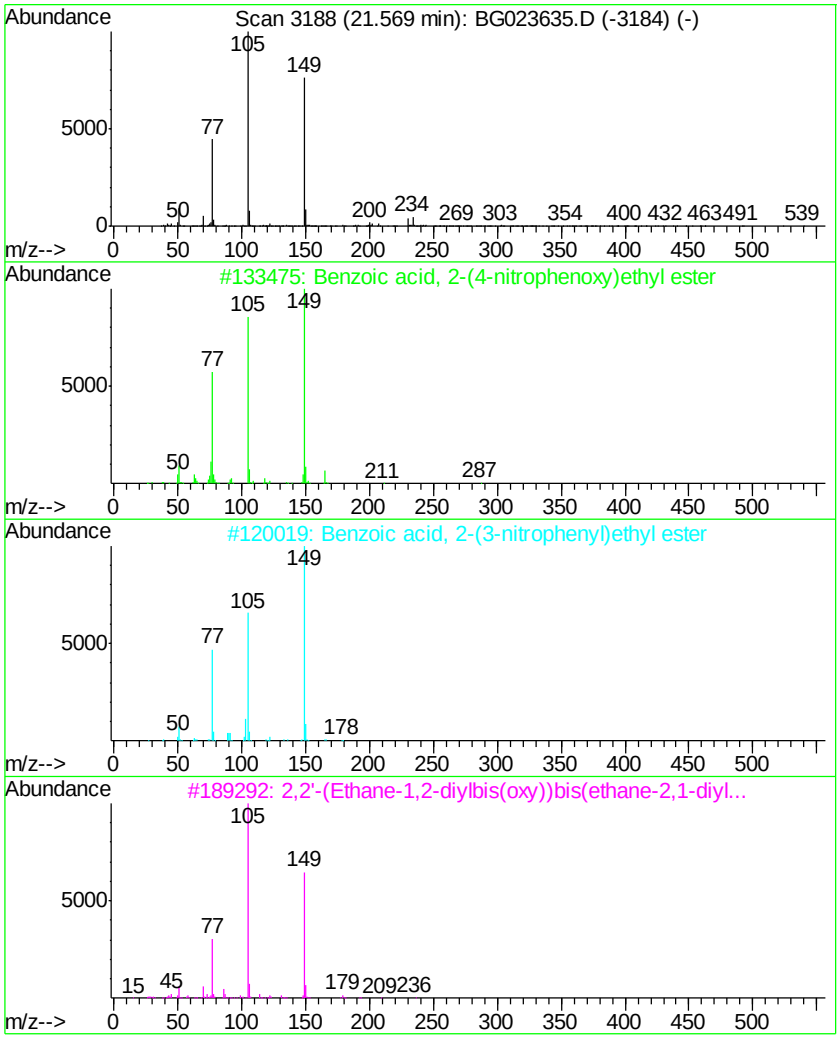
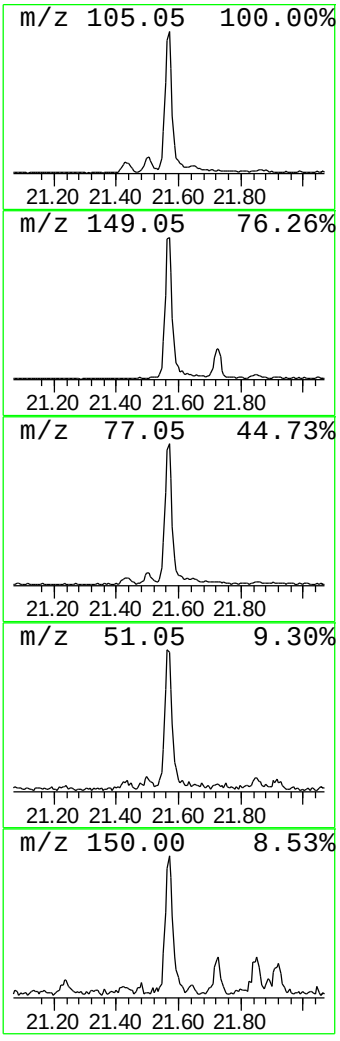
Peak Number 9 Benzoic acid, 2-(4-nitrophe... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.57 | 7.02 ng/ul | 1766540 | Chrysene-d12 | 21.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 2-(4-nitrophenoxy)... | 287 | C15H13NO5 | 1000368-92-7 | 72 |
| 2 | Benzoic acid, 2-(3-nitrophenyl)e... | 271 | C15H13NO4 | 1000368-22-4 | 72 |
| 3 | 2,2'-(Ethane-1,2-diylbis(oxy))bi... | 358 | C20H22O6 | 1000366-99-4 | 64 |
| 4 | Diethylene glycol dibenzoate | 314 | C18H18O5 | 000120-55-8 | 64 |
| 5 | 2-(2-(2-Methoxyethoxy)ethoxy)eth... | 268 | C14H20O5 | 1000366-99-1 | 64 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081116\
Data File : BG023635.D
Acq On : 11 Aug 2016 23:27
Operator : UM/SJ
Sample : H4360-16 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PR001-SS003-1218-01

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.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 |
| Phenanthrene, 1-m... | 18.43 | 4.0 | ng/ul | 580640 | 4 | 17.54 | 2907980 | 20.0 |
| Phenanthrene, 2-m... | 18.47 | 5.1 | ng/ul | 744652 | 4 | 17.54 | 2907980 | 20.0 |
| 4H-Cyclopenta[def... | 18.62 | 6.0 | ng/ul | 873196 | 4 | 17.54 | 2907980 | 20.0 |
| 5,16[1',2']:8,13[... | 18.92 | 2.1 | ng/ul | 307027 | 4 | 17.54 | 2907980 | 20.0 |
| 9,10-Anthracenedione | 18.97 | 3.8 | ng/ul | 553056 | 4 | 17.54 | 2907980 | 20.0 |
| 9,10-Dimethylanth... | 19.34 | 2.8 | ng/ul | 408783 | 4 | 17.54 | 2907980 | 20.0 |
| 11H-Benzo[b]fluorene | 20.45 | 2.1 | ng/ul | 528324 | 5 | 21.87 | 5032680 | 20.0 |
| Benzoic acid, 2-(... | 21.57 | 7.0 | ng/ul | 1766540 | 5 | 21.87 | 5032680 | 20.0 |