LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

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-BG051816.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 | 7.315 | 756 | 762 | 770 | rBV3 | 6952 | 15573 | 1.20% | 0.120% |
| 2 | 7.486 | 786 | 791 | 798 | rBV2 | 5999 | 12569 | 0.97% | 0.097% |
| 3 | 7.691 | 820 | 826 | 834 | rBV5 | 10039 | 21034 | 1.62% | 0.162% |
| 4 | 8.161 | 899 | 906 | 915 | rBV | 72783 | 145748 | 11.20% | 1.125% |
| 5 | 8.866 | 1019 | 1026 | 1033 | rBV6 | 7093 | 14660 | 1.13% | 0.113% |
| 6 | 9.331 | 1098 | 1105 | 1111 | rBV3 | 7344 | 15264 | 1.17% | 0.118% |
| 7 | 10.059 | 1222 | 1229 | 1238 | rVB4 | 5561 | 13261 | 1.02% | 0.102% |
| 8 | 10.600 | 1314 | 1321 | 1328 | rBV3 | 10704 | 22897 | 1.76% | 0.177% |
| 9 | 10.982 | 1377 | 1386 | 1392 | rBV | 137795 | 292635 | 22.48% | 2.260% |
| 10 | 11.023 | 1392 | 1393 | 1401 | rVB | 18996 | 28602 | 2.20% | 0.221% |
| 11 | 12.621 | 1661 | 1665 | 1673 | rBV4 | 4258 | 8278 | 0.64% | 0.064% |
| 12 | 12.844 | 1696 | 1703 | 1707 | rBV | 4483 | 7922 | 0.61% | 0.061% |
| 13 | 14.107 | 1909 | 1918 | 1922 | rBV3 | 3484 | 6161 | 0.47% | 0.048% |
| 14 | 14.178 | 1922 | 1930 | 1935 | rVV | 34525 | 59093 | 4.54% | 0.456% |
| 15 | 14.225 | 1935 | 1938 | 1946 | rVB | 11642 | 21781 | 1.67% | 0.168% |
| 16 | 14.477 | 1973 | 1981 | 1993 | rVB | 46564 | 82261 | 6.32% | 0.635% |
| 17 | 14.660 | 2005 | 2012 | 2015 | rBV5 | 3336 | 5160 | 0.40% | 0.040% |
| 18 | 14.783 | 2026 | 2033 | 2039 | rBV2 | 243511 | 432193 | 33.20% | 3.337% |
| 19 | 14.848 | 2039 | 2044 | 2051 | rVV2 | 51061 | 83952 | 6.45% | 0.648% |
| 20 | 15.183 | 2092 | 2101 | 2108 | rBV | 13379 | 26764 | 2.06% | 0.207% |
| 21 | 15.606 | 2168 | 2173 | 2177 | rVB3 | 6041 | 8843 | 0.68% | 0.068% |
| 22 | 15.770 | 2194 | 2201 | 2206 | rBV2 | 54862 | 93458 | 7.18% | 0.722% |
| 23 | 15.829 | 2206 | 2211 | 2217 | rVV | 24136 | 43125 | 3.31% | 0.333% |
| 24 | 15.893 | 2217 | 2222 | 2228 | rVV5 | 4586 | 9476 | 0.73% | 0.073% |
| 25 | 15.952 | 2228 | 2232 | 2235 | rVV4 | 3816 | 6353 | 0.49% | 0.049% |
| 26 | 15.993 | 2235 | 2239 | 2245 | rVV5 | 5482 | 11370 | 0.87% | 0.088% |
| 27 | 16.117 | 2257 | 2260 | 2265 | rVB2 | 4920 | 7228 | 0.56% | 0.056% |
| 28 | 16.264 | 2281 | 2285 | 2292 | rVV3 | 5115 | 11086 | 0.85% | 0.086% |
| 29 | 16.463 | 2315 | 2319 | 2320 | rBV2 | 7313 | 8609 | 0.66% | 0.066% |
| 30 | 16.487 | 2320 | 2323 | 2331 | rVB5 | 12410 | 24610 | 1.89% | 0.190% |
| 31 | 16.798 | 2368 | 2376 | 2377 | rBV | 4043 | 6340 | 0.49% | 0.049% |
| 32 | 17.180 | 2435 | 2441 | 2448 | rBV | 22252 | 39954 | 3.07% | 0.309% |
| 33 | 17.251 | 2448 | 2453 | 2460 | rBV7 | 9590 | 21953 | 1.69% | 0.170% |
| 34 | 17.345 | 2465 | 2469 | 2479 | rVV2 | 17415 | 30720 | 2.36% | 0.237% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

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-BG051816.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.527 | 2493 | 2500 | 2503 | rBV | 284414 | 478167 | 36.73% | 3.692% |
| 36 | 17.568 | 2503 | 2507 | 2513 | rVV | 436470 | 710352 | 54.57% | 5.485% |
| 37 | 17.627 | 2513 | 2517 | 2519 | rVV | 65444 | 109319 | 8.40% | 0.844% |
| 38 | 17.656 | 2519 | 2522 | 2528 | rVV | 70939 | 125224 | 9.62% | 0.967% |
| 39 | 17.721 | 2528 | 2533 | 2542 | rVV2 | 11176 | 26308 | 2.02% | 0.203% |
| 40 | 17.926 | 2560 | 2568 | 2575 | rBV | 54723 | 115586 | 8.88% | 0.892% |
| 41 | 17.991 | 2577 | 2579 | 2583 | rVV4 | 8276 | 10944 | 0.84% | 0.085% |
| 42 | 18.038 | 2585 | 2587 | 2591 | rVV2 | 5777 | 7641 | 0.59% | 0.059% |
| 43 | 18.109 | 2594 | 2599 | 2606 | rVB9 | 4991 | 11397 | 0.88% | 0.088% |
| 44 | 18.244 | 2618 | 2622 | 2631 | rVB5 | 3740 | 7568 | 0.58% | 0.058% |
| 45 | 18.396 | 2643 | 2648 | 2652 | rBV | 29380 | 48967 | 3.76% | 0.378% |
| 46 | 18.443 | 2652 | 2656 | 2665 | rVB | 42965 | 74079 | 5.69% | 0.572% |
| 47 | 18.532 | 2665 | 2671 | 2675 | rBV2 | 11321 | 18330 | 1.41% | 0.142% |
| 48 | 18.596 | 2675 | 2682 | 2693 | rBV3 | 51521 | 133384 | 10.25% | 1.030% |
| 49 | 18.690 | 2693 | 2698 | 2704 | rBV7 | 5107 | 11540 | 0.89% | 0.089% |
| 50 | 18.737 | 2704 | 2706 | 2712 | rVB4 | 4274 | 6277 | 0.48% | 0.048% |
| 51 | 18.831 | 2719 | 2722 | 2727 | rVB3 | 4250 | 6006 | 0.46% | 0.046% |
| 52 | 18.890 | 2727 | 2732 | 2736 | rBV | 24889 | 42079 | 3.23% | 0.325% |
| 53 | 18.937 | 2736 | 2740 | 2748 | rVB | 28305 | 47234 | 3.63% | 0.365% |
| 54 | 19.137 | 2769 | 2774 | 2778 | rVV6 | 8801 | 13891 | 1.07% | 0.107% |
| 55 | 19.184 | 2778 | 2782 | 2784 | rVV3 | 6552 | 6043 | 0.46% | 0.047% |
| 56 | 19.225 | 2784 | 2789 | 2794 | rVB7 | 6967 | 13044 | 1.00% | 0.101% |
| 57 | 19.307 | 2797 | 2803 | 2808 | rBV4 | 24428 | 49412 | 3.80% | 0.382% |
| 58 | 19.366 | 2808 | 2813 | 2816 | rBV6 | 6007 | 11096 | 0.85% | 0.086% |
| 59 | 19.448 | 2822 | 2827 | 2834 | rVB3 | 28941 | 51861 | 3.98% | 0.400% |
| 60 | 19.507 | 2834 | 2837 | 2839 | rBV4 | 4949 | 6899 | 0.53% | 0.053% |
| 61 | 19.572 | 2841 | 2848 | 2855 | rVV | 742014 | 1153846 | 88.64% | 8.909% |
| 62 | 19.624 | 2855 | 2857 | 2860 | rVV3 | 7254 | 8731 | 0.67% | 0.067% |
| 63 | 19.660 | 2860 | 2863 | 2868 | rVB2 | 16484 | 26079 | 2.00% | 0.201% |
| 64 | 19.754 | 2876 | 2879 | 2882 | rBV5 | 6173 | 7814 | 0.60% | 0.060% |
| 65 | 19.812 | 2882 | 2889 | 2896 | rVB3 | 22362 | 47395 | 3.64% | 0.366% |
| 66 | 19.930 | 2897 | 2909 | 2916 | rBV | 586831 | 1210063 | 92.96% | 9.343% |
| 67 | 19.995 | 2916 | 2920 | 2926 | rVB3 | 23332 | 40601 | 3.12% | 0.313% |
| 68 | 20.100 | 2932 | 2938 | 2943 | rBV2 | 21322 | 36864 | 2.83% | 0.285% |
| 69 | 20.165 | 2944 | 2949 | 2957 | rVB | 34101 | 53350 | 4.10% | 0.412% |
| 70 | 20.247 | 2957 | 2963 | 2969 | rBV3 | 35126 | 81003 | 6.22% | 0.625% |
| 71 | 20.306 | 2969 | 2973 | 2978 | rBV | 19175 | 28524 | 2.19% | 0.220% |

LSC Area Percent Report

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Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

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-BG051816.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.382 | 2980 | 2986 | 2987 | rBV4 | 24283 | 39578 | 3.04% | 0.306% |
| 73 | 20.412 | 2987 | 2991 | 2996 | rVB | 57288 | 97544 | 7.49% | 0.753% |
| 74 | 20.517 | 3004 | 3009 | 3012 | rBV2 | 29037 | 45392 | 3.49% | 0.350% |
| 75 | 20.576 | 3012 | 3019 | 3022 | rVV3 | 36887 | 69847 | 5.37% | 0.539% |
| 76 | 20.611 | 3022 | 3025 | 3029 | rVB | 27415 | 31795 | 2.44% | 0.246% |
| 77 | 20.717 | 3038 | 3043 | 3046 | rBV3 | 24897 | 38909 | 2.99% | 0.300% |
| 78 | 20.758 | 3047 | 3050 | 3060 | rVB3 | 30510 | 54275 | 4.17% | 0.419% |
| 79 | 21.140 | 3112 | 3115 | 3116 | rBV3 | 7696 | 7485 | 0.58% | 0.058% |
| 80 | 21.187 | 3118 | 3123 | 3129 | rVB | 58074 | 98989 | 7.60% | 0.764% |
| 81 | 21.375 | 3146 | 3155 | 3159 | rBV3 | 69210 | 162575 | 12.49% | 1.255% |
| 82 | 21.416 | 3159 | 3162 | 3167 | rVV | 55716 | 94594 | 7.27% | 0.730% |
| 83 | 21.475 | 3167 | 3172 | 3176 | rVV3 | 56038 | 120970 | 9.29% | 0.934% |
| 84 | 21.528 | 3176 | 3181 | 3188 | rVB2 | 58162 | 116043 | 8.91% | 0.896% |
| 85 | 21.663 | 3202 | 3204 | 3210 | rVB3 | 19912 | 28872 | 2.22% | 0.223% |
| 86 | 21.798 | 3214 | 3227 | 3233 | rVV3 | 444686 | 1301688 | 100.00% | 10.051% |
| 87 | 21.857 | 3233 | 3237 | 3249 | rVB | 262135 | 520070 | 39.95% | 4.016% |
| 88 | 22.010 | 3258 | 3263 | 3270 | rVB3 | 43651 | 82178 | 6.31% | 0.635% |
| 89 | 22.157 | 3286 | 3288 | 3294 | rVB2 | 20340 | 33340 | 2.56% | 0.257% |
| 90 | 22.227 | 3294 | 3300 | 3307 | rBV2 | 45644 | 102719 | 7.89% | 0.793% |
| 91 | 22.556 | 3348 | 3356 | 3361 | rBV2 | 30979 | 70005 | 5.38% | 0.541% |
| 92 | 22.973 | 3423 | 3427 | 3441 | rVB9 | 24217 | 80020 | 6.15% | 0.618% |
| 93 | 24.072 | 3604 | 3614 | 3622 | rBV2 | 251989 | 881731 | 67.74% | 6.808% |
| 94 | 24.342 | 3653 | 3660 | 3667 | rVB3 | 34081 | 89691 | 6.89% | 0.693% |
| 95 | 24.830 | 3731 | 3743 | 3751 | rBV2 | 131738 | 434782 | 33.40% | 3.357% |
| 96 | 24.977 | 3759 | 3768 | 3781 | rVB | 177950 | 573036 | 44.02% | 4.425% |
| 97 | 25.130 | 3784 | 3794 | 3803 | rBV2 | 152507 | 518634 | 39.84% | 4.005% |
| 98 | 28.943 | 4430 | 4443 | 4461 | rVB4 | 93391 | 458581 | 35.23% | 3.541% |
| 99 | 30.136 | 4632 | 4646 | 4660 | rVB4 | 64800 | 314534 | 24.16% | 2.429% |
| 100 | 31.058 | 4800 | 4803 | 4806 | rBV5 | 4433 | 7194 | 0.55% | 0.056% |

Sum of corrected areas: 12950922

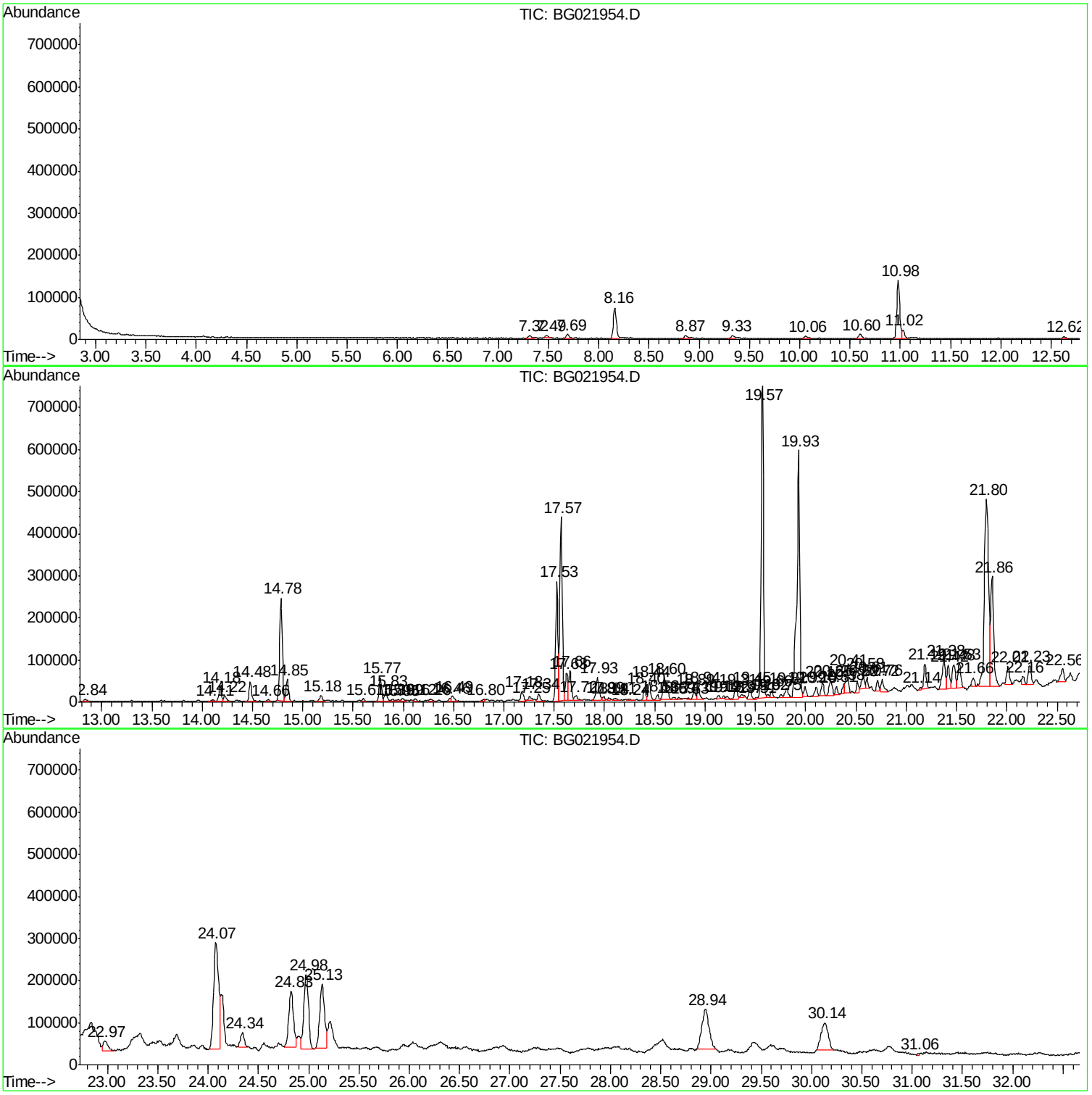
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

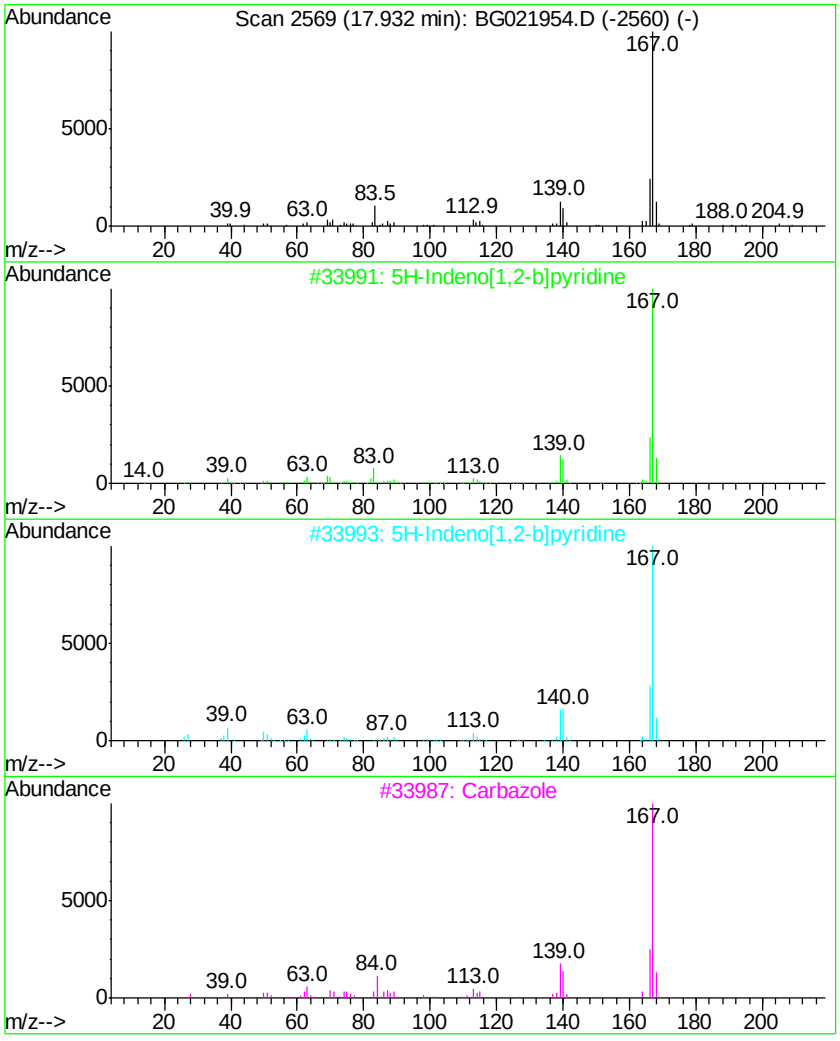
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

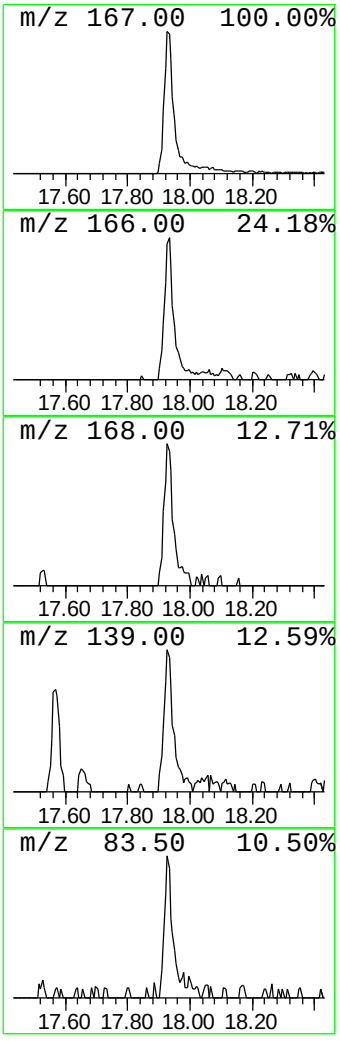
**********

Peak Number 1 5H-Indeno[1,2-b]pyridine Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.93 | 4.83 ng/ul | 115586 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 91 |
| 2 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 90 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 90 |
| 4 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 87 |
| 5 | Carbazole | 167 | C12H9N | 000086-74-8 | 87 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

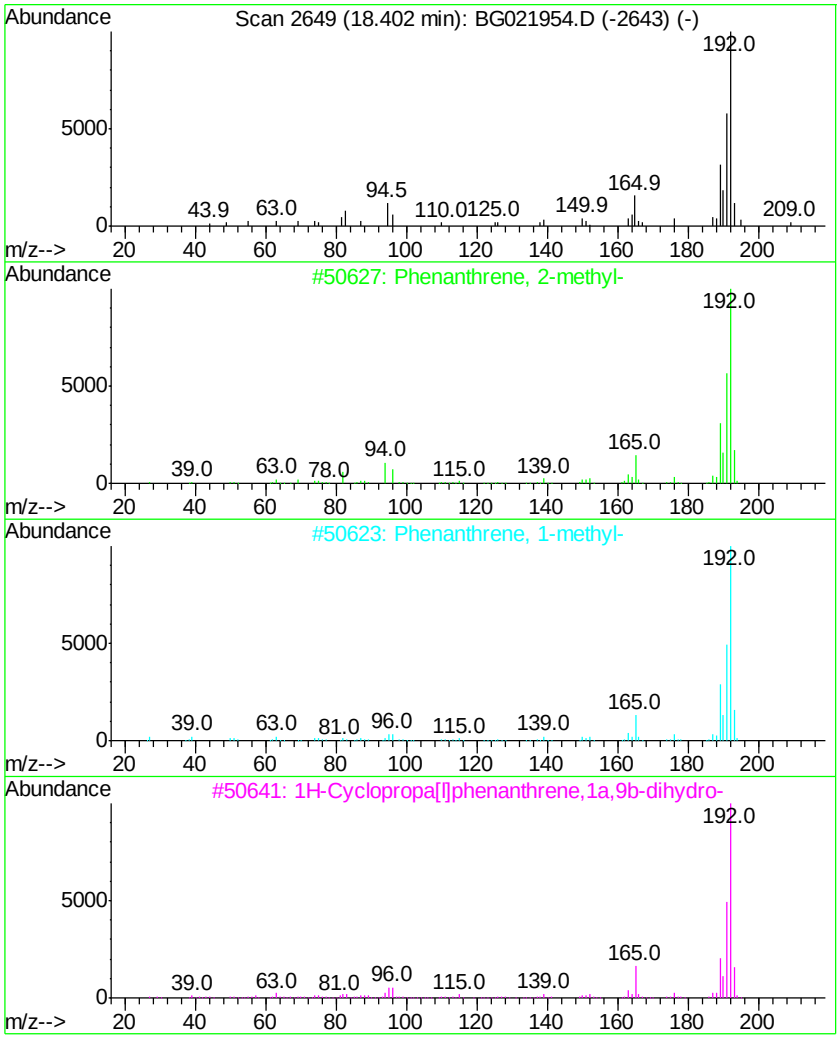
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

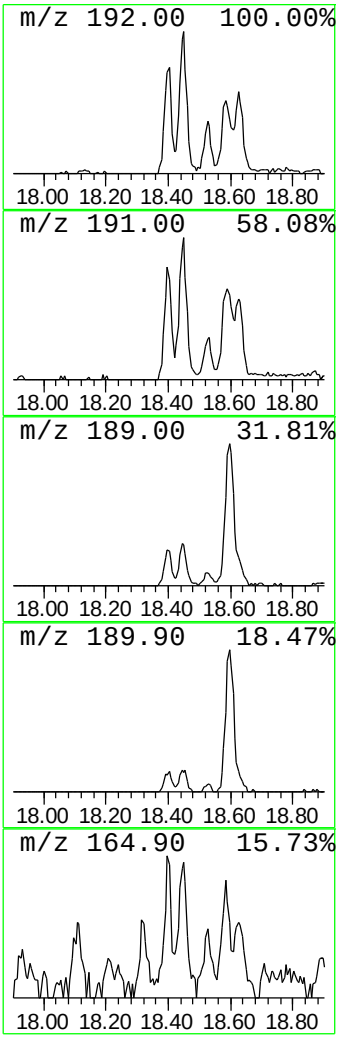
**********

Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.40 | 2.05 ng/ul | 48967 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 93 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 92 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

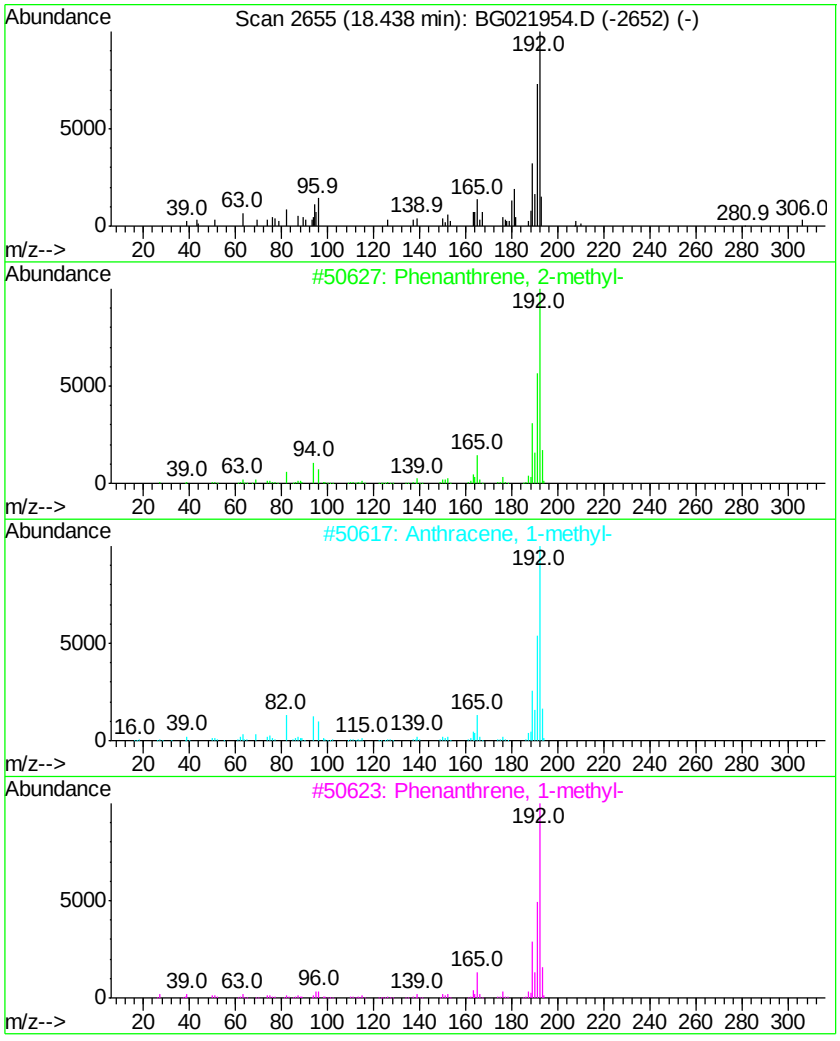
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

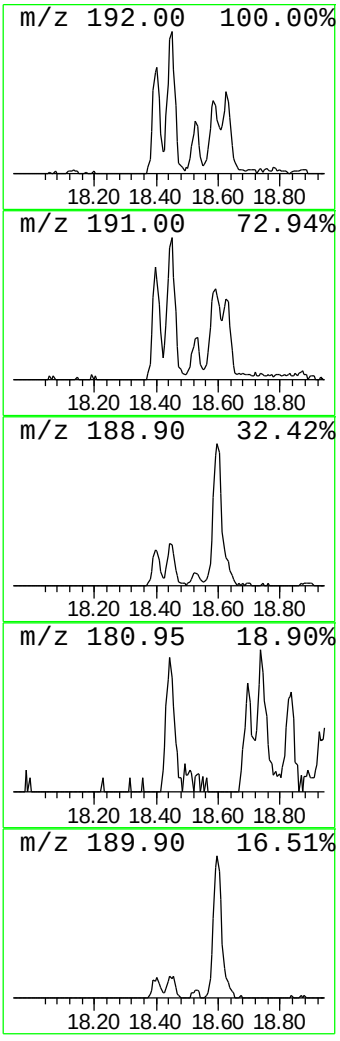
**********

Peak Number 3 Anthracene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.44 | 3.10 ng/ul | 74079 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 89 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

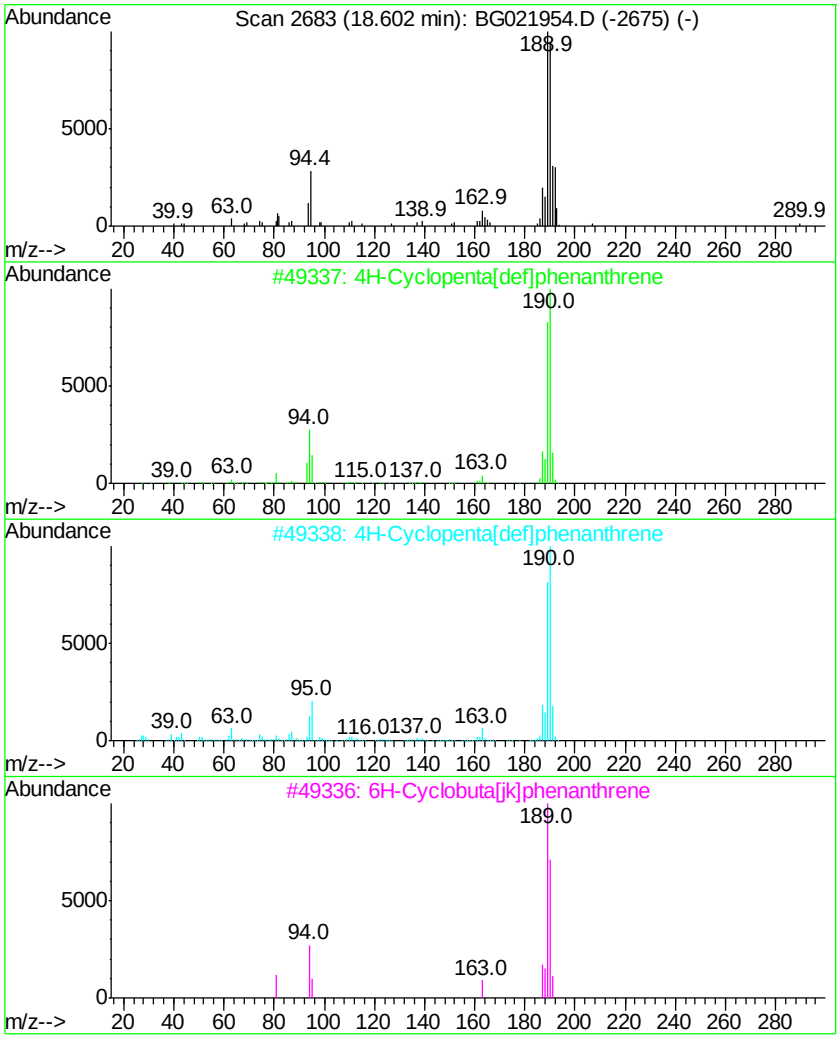
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

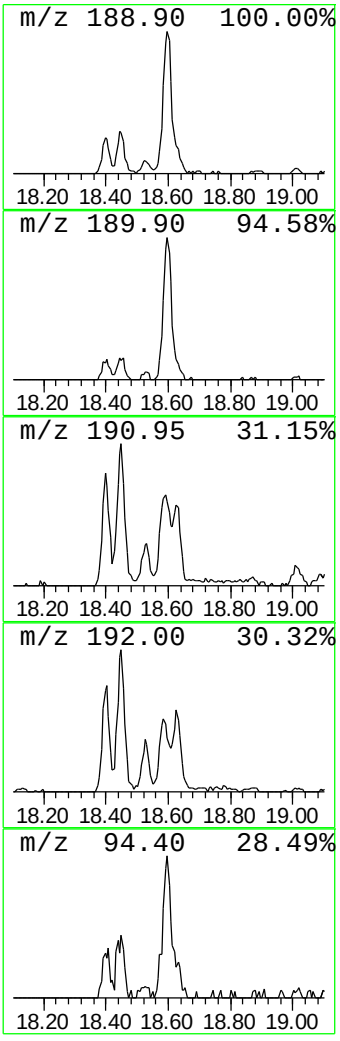
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.60 | 5.58 ng/ul | 133384 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 91 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 68 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 59 |
| 5 | 2,2'-Difluorobiphenyl | 190 | C12H8F2 | 000388-82-9 | 17 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

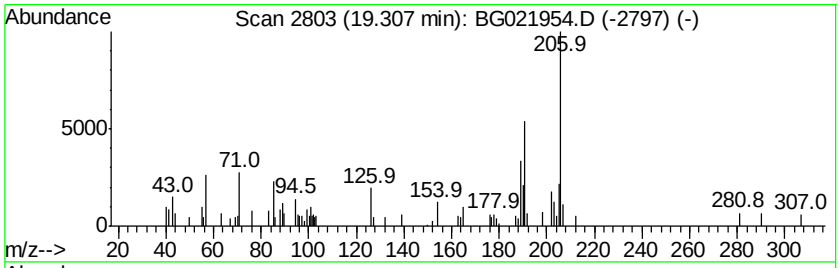
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

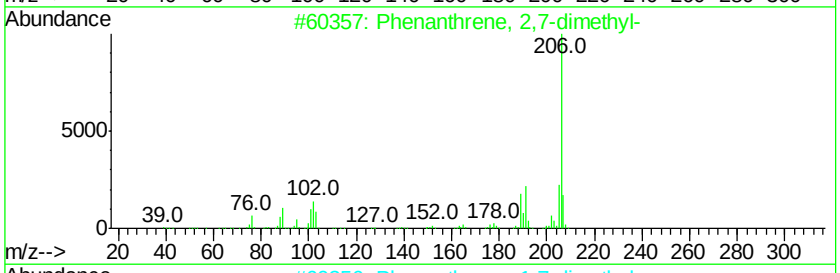
**********

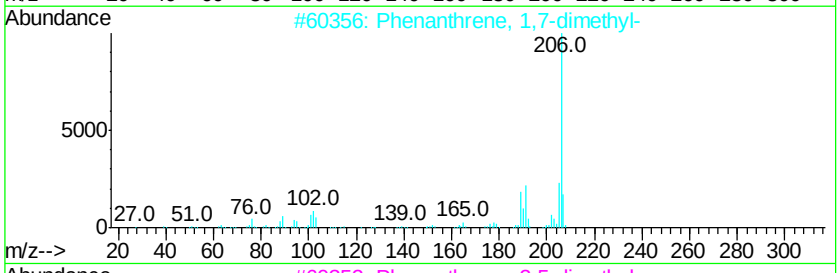
Peak Number 5 Phenanthrene, 2,7-dimethyl- Concentration Rank 8

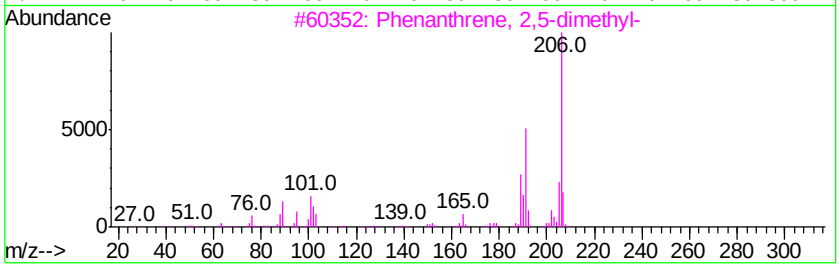
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.31 | 2.07 ng/ul | 49412 | Phenanthrene-d10 | 17.53 |

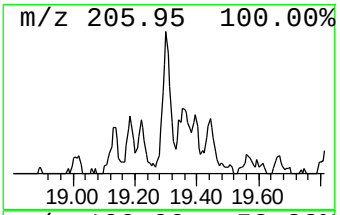
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 76 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 68 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 68 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 64 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 64 |

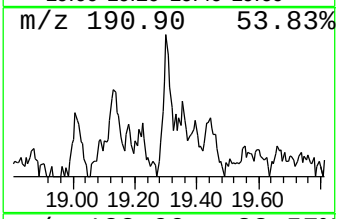


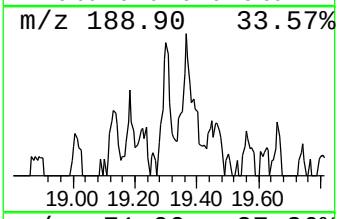



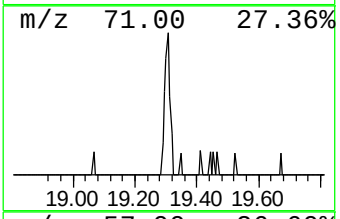



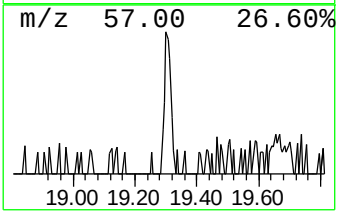



Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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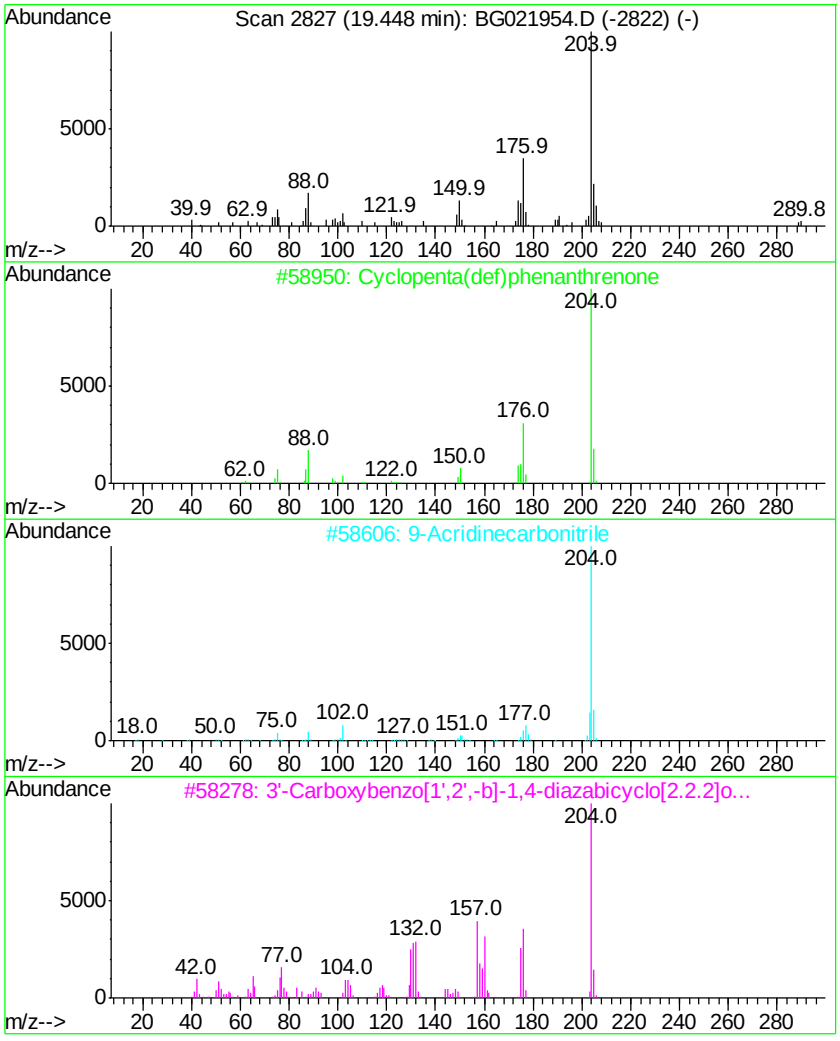
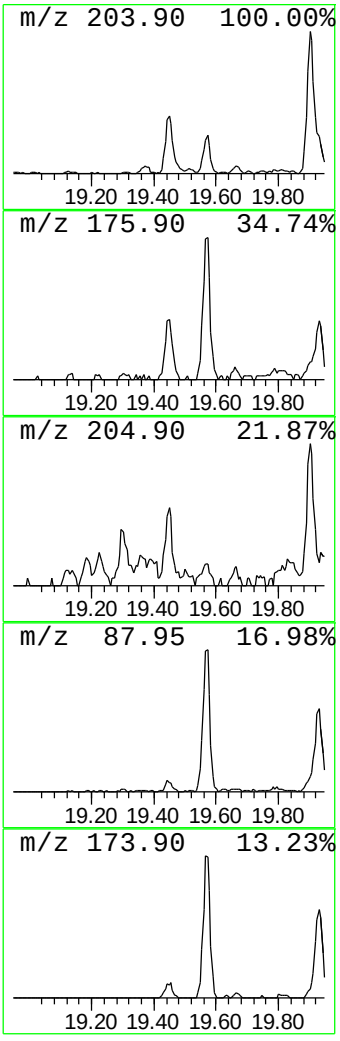
Peak Number 6 Cyclopenta(def)phenanthrenone Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.45 | 2.17 ng/ul | 51861 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 97 |
| 2 | 9-Acridinecarbonitrile | 204 | C14H8N2 | 005326-19-2 | 53 |
| 3 | 3'-Carboxybenzo[1',2',-b]-1,4-di... | 204 | C11H12N2O2 | 138023-41-3 | 52 |
| 4 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 50 |
| 5 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 50 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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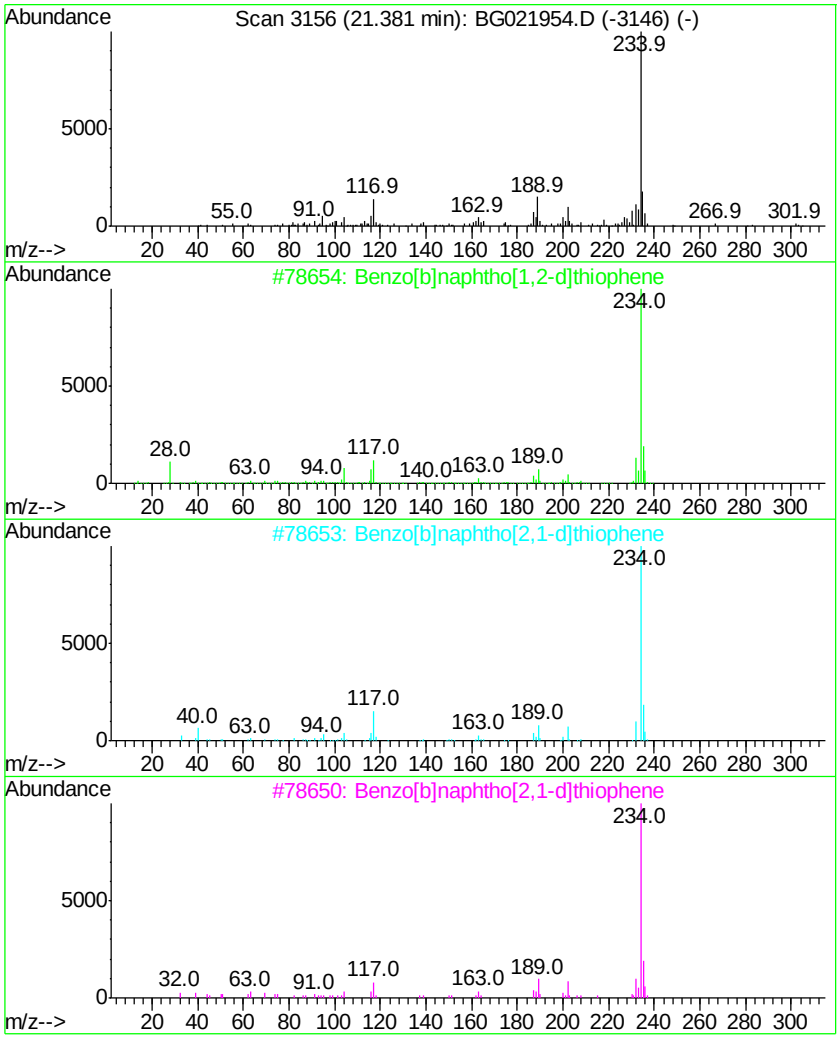
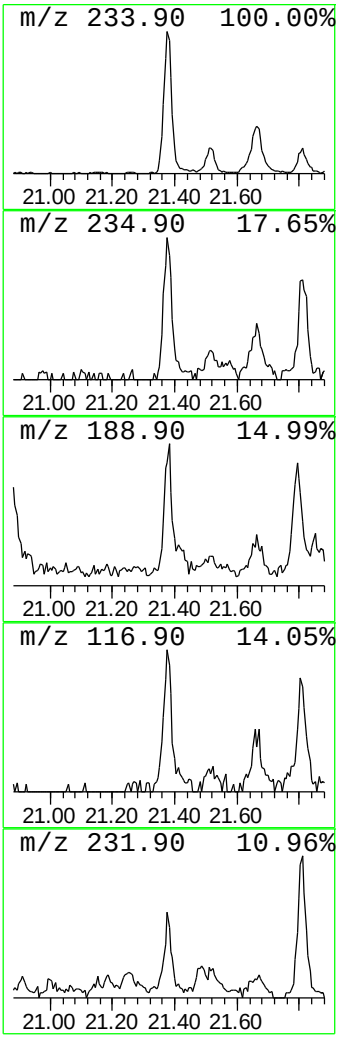
Peak Number 7 Benzo[b]naphtho[1,2-d]thiop... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.38 | 2.50 ng/ul | 162575 | Chrysene-d12 | 21.81 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 95 |
| 2 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |
| 3 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 93 |
| 4 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 93 |
| 5 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 93 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051816\
Data File : BG021954.D
Acq On : 19 May 2016 5:18
Operator : UM/SJ
Sample : H3095-22DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9XF8DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 5H-Indeno[1,2-b]p... | 17.93 | 4.8 | ng/ul | 115586 | 4 | 17.53 | 478167 | 20.0 |
| Phenanthrene, 2-m... | 18.40 | 2.0 | ng/ul | 48967 | 4 | 17.53 | 478167 | 20.0 |
| Anthracene, 1-met... | 18.44 | 3.1 | ng/ul | 74079 | 4 | 17.53 | 478167 | 20.0 |
| 4H-Cyclopenta[def... | 18.60 | 5.6 | ng/ul | 133384 | 4 | 17.53 | 478167 | 20.0 |
| Phenanthrene, 2,7... | 19.31 | 2.1 | ng/ul | 49412 | 4 | 17.53 | 478167 | 20.0 |
| Cyclopenta(def)ph... | 19.45 | 2.2 | ng/ul | 51861 | 4 | 17.53 | 478167 | 20.0 |
| Benzo[b]naphtho[1... | 21.38 | 2.5 | ng/ul | 162575 | 5 | 21.81 | 1301690 | 20.0 |