LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

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-BG011216.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 | 3.050 | 31 | 36 | 40 | rBV | 12628 | 21523 | 1.68% | 0.122% |
| 2 | 8.044 | 880 | 886 | 897 | rVB | 56395 | 96760 | 7.54% | 0.550% |
| 3 | 10.858 | 1357 | 1365 | 1371 | rBV | 83088 | 147425 | 11.49% | 0.839% |
| 4 | 14.078 | 1905 | 1913 | 1918 | rVV2 | 12720 | 23688 | 1.85% | 0.135% |
| 5 | 14.372 | 1958 | 1963 | 1976 | rBV3 | 14049 | 25804 | 2.01% | 0.147% |
| 6 | 14.683 | 2006 | 2016 | 2022 | rBV2 | 148111 | 241586 | 18.83% | 1.374% |
| 7 | 14.742 | 2022 | 2026 | 2032 | rVB | 22824 | 33246 | 2.59% | 0.189% |
| 8 | 15.077 | 2076 | 2083 | 2090 | rVV2 | 12226 | 21118 | 1.65% | 0.120% |
| 9 | 15.670 | 2180 | 2184 | 2188 | rVV | 21929 | 32077 | 2.50% | 0.182% |
| 10 | 15.723 | 2188 | 2193 | 2204 | rVB | 27838 | 46538 | 3.63% | 0.265% |
| 11 | 16.017 | 2234 | 2243 | 2250 | rVB4 | 10086 | 22467 | 1.75% | 0.128% |
| 12 | 16.393 | 2304 | 2307 | 2316 | rVB5 | 14546 | 25076 | 1.96% | 0.143% |
| 13 | 16.728 | 2354 | 2364 | 2369 | rBV5 | 15340 | 40033 | 3.12% | 0.228% |
| 14 | 16.957 | 2394 | 2403 | 2406 | rBV6 | 11079 | 26041 | 2.03% | 0.148% |
| 15 | 17.080 | 2417 | 2424 | 2431 | rVB2 | 21486 | 35231 | 2.75% | 0.200% |
| 16 | 17.157 | 2431 | 2437 | 2443 | rBV6 | 16507 | 30049 | 2.34% | 0.171% |
| 17 | 17.245 | 2448 | 2452 | 2461 | rVB | 22948 | 38904 | 3.03% | 0.221% |
| 18 | 17.427 | 2477 | 2483 | 2486 | rBV | 210269 | 311358 | 24.27% | 1.771% |
| 19 | 17.468 | 2486 | 2490 | 2496 | rVB | 403607 | 613830 | 47.86% | 3.492% |
| 20 | 17.527 | 2496 | 2500 | 2502 | rBV | 27144 | 36178 | 2.82% | 0.206% |
| 21 | 17.562 | 2502 | 2506 | 2511 | rVB | 65658 | 91731 | 7.15% | 0.522% |
| 22 | 17.621 | 2511 | 2516 | 2521 | rVB3 | 14491 | 25211 | 1.97% | 0.143% |
| 23 | 17.832 | 2544 | 2552 | 2559 | rVV2 | 40884 | 85684 | 6.68% | 0.487% |
| 24 | 17.944 | 2567 | 2571 | 2574 | rVV | 17567 | 21186 | 1.65% | 0.121% |
| 25 | 18.009 | 2574 | 2582 | 2589 | rVB2 | 30897 | 57184 | 4.46% | 0.325% |
| 26 | 18.156 | 2602 | 2607 | 2614 | rVB | 17764 | 35915 | 2.80% | 0.204% |
| 27 | 18.302 | 2627 | 2632 | 2636 | rVV | 113255 | 168426 | 13.13% | 0.958% |
| 28 | 18.349 | 2636 | 2640 | 2647 | rVB | 152387 | 226350 | 17.65% | 1.288% |
| 29 | 18.432 | 2647 | 2654 | 2659 | rBV | 31184 | 55043 | 4.29% | 0.313% |
| 30 | 18.496 | 2659 | 2665 | 2669 | rBV3 | 137589 | 272103 | 21.21% | 1.548% |
| 31 | 18.532 | 2669 | 2671 | 2677 | rVB | 87970 | 108266 | 8.44% | 0.616% |
| 32 | 18.696 | 2695 | 2699 | 2703 | rBV2 | 18669 | 23503 | 1.83% | 0.134% |
| 33 | 18.796 | 2711 | 2716 | 2720 | rBV2 | 74867 | 111124 | 8.66% | 0.632% |
| 34 | 18.849 | 2720 | 2725 | 2733 | rVB2 | 116001 | 185284 | 14.45% | 1.054% |

LSC Area Percent Report

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Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

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-BG011216.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.043 | 2750 | 2758 | 2762 | rBV3 | 43312 | 90122 | 7.03% | 0.513% |
| 36 | 19.090 | 2762 | 2766 | 2770 | rBV | 47937 | 63003 | 4.91% | 0.358% |
| 37 | 19.131 | 2770 | 2773 | 2781 | rVB2 | 42749 | 55151 | 4.30% | 0.314% |
| 38 | 19.213 | 2781 | 2787 | 2791 | rBV | 129250 | 206651 | 16.11% | 1.176% |
| 39 | 19.272 | 2791 | 2797 | 2801 | rBV5 | 34244 | 67694 | 5.28% | 0.385% |
| 40 | 19.360 | 2806 | 2812 | 2819 | rBV3 | 52701 | 110318 | 8.60% | 0.628% |
| 41 | 19.483 | 2826 | 2833 | 2838 | rBV | 799777 | 1167068 | 90.99% | 6.640% |
| 42 | 19.536 | 2838 | 2842 | 2845 | rVV | 34749 | 47253 | 3.68% | 0.269% |
| 43 | 19.572 | 2845 | 2848 | 2852 | rVB | 32128 | 43106 | 3.36% | 0.245% |
| 44 | 19.677 | 2861 | 2866 | 2869 | rBV2 | 28865 | 44368 | 3.46% | 0.252% |
| 45 | 19.718 | 2869 | 2873 | 2876 | rBV2 | 31719 | 43727 | 3.41% | 0.249% |
| 46 | 19.812 | 2883 | 2889 | 2890 | rBV2 | 161451 | 233197 | 18.18% | 1.327% |
| 47 | 19.848 | 2890 | 2895 | 2901 | rVV | 766757 | 1161296 | 90.54% | 6.607% |
| 48 | 19.906 | 2901 | 2905 | 2908 | rVV | 81697 | 123199 | 9.60% | 0.701% |
| 49 | 19.936 | 2908 | 2910 | 2914 | rVV | 54215 | 55082 | 4.29% | 0.313% |
| 50 | 20.024 | 2915 | 2925 | 2930 | rVV3 | 52834 | 141363 | 11.02% | 0.804% |
| 51 | 20.077 | 2930 | 2934 | 2940 | rVB2 | 48732 | 96498 | 7.52% | 0.549% |
| 52 | 20.171 | 2941 | 2950 | 2956 | rBV4 | 98864 | 268624 | 20.94% | 1.528% |
| 53 | 20.218 | 2956 | 2958 | 2966 | rVV5 | 20769 | 59344 | 4.63% | 0.338% |
| 54 | 20.329 | 2966 | 2977 | 2982 | rVB | 177182 | 435082 | 33.92% | 2.475% |
| 55 | 20.429 | 2987 | 2994 | 2999 | rBV2 | 130311 | 228008 | 17.78% | 1.297% |
| 56 | 20.494 | 2999 | 3005 | 3008 | rVV2 | 206327 | 318840 | 24.86% | 1.814% |
| 57 | 20.523 | 3008 | 3010 | 3014 | rVB | 40341 | 48334 | 3.77% | 0.275% |
| 58 | 20.588 | 3014 | 3021 | 3024 | rBV4 | 37694 | 70118 | 5.47% | 0.399% |
| 59 | 20.629 | 3024 | 3028 | 3032 | rBV | 101818 | 141264 | 11.01% | 0.804% |
| 60 | 20.676 | 3032 | 3036 | 3044 | rVB2 | 89882 | 155482 | 12.12% | 0.885% |
| 61 | 20.758 | 3046 | 3050 | 3053 | rBV5 | 12354 | 23105 | 1.80% | 0.131% |
| 62 | 20.882 | 3066 | 3071 | 3075 | rBV | 378937 | 503657 | 39.27% | 2.865% |
| 63 | 21.064 | 3096 | 3102 | 3104 | rBV6 | 25993 | 51677 | 4.03% | 0.294% |
| 64 | 21.099 | 3104 | 3108 | 3113 | rVB | 85172 | 132302 | 10.31% | 0.753% |
| 65 | 21.193 | 3120 | 3124 | 3128 | rVB | 27257 | 43678 | 3.41% | 0.248% |
| 66 | 21.281 | 3130 | 3139 | 3143 | rVV3 | 111952 | 251211 | 19.59% | 1.429% |
| 67 | 21.322 | 3143 | 3146 | 3150 | rVV | 90415 | 125239 | 9.76% | 0.713% |
| 68 | 21.375 | 3150 | 3155 | 3159 | rVV2 | 88266 | 149778 | 11.68% | 0.852% |
| 69 | 21.434 | 3160 | 3165 | 3173 | rVB2 | 85894 | 165821 | 12.93% | 0.943% |
| 70 | 21.563 | 3183 | 3187 | 3193 | rVB2 | 25948 | 41994 | 3.27% | 0.239% |
| 71 | 21.687 | 3198 | 3208 | 3215 | rBV3 | 472336 | 1282655 | 100.00% | 7.297% |

LSC Area Percent Report

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Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

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-BG011216.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 21.751 | 3215 | 3219 | 3231 | rVB | 427968 | 734882 | 57.29% | 4.181% |
| 73 | 21.851 | 3233 | 3236 | 3240 | rVB4 | 28578 | 41336 | 3.22% | 0.235% |
| 74 | 21.904 | 3240 | 3245 | 3252 | rBV | 60760 | 114272 | 8.91% | 0.650% |
| 75 | 21.980 | 3253 | 3258 | 3265 | rBV7 | 33834 | 88044 | 6.86% | 0.501% |
| 76 | 22.122 | 3276 | 3282 | 3287 | rBV2 | 53525 | 118419 | 9.23% | 0.674% |
| 77 | 22.180 | 3289 | 3292 | 3296 | rVB4 | 23139 | 31260 | 2.44% | 0.178% |
| 78 | 22.304 | 3308 | 3313 | 3317 | rBV5 | 19057 | 39839 | 3.11% | 0.227% |
| 79 | 22.439 | 3327 | 3336 | 3341 | rVB | 104523 | 233697 | 18.22% | 1.330% |
| 80 | 22.509 | 3343 | 3348 | 3356 | rVB3 | 66054 | 135874 | 10.59% | 0.773% |
| 81 | 22.603 | 3359 | 3364 | 3367 | rVB3 | 20907 | 34682 | 2.70% | 0.197% |
| 82 | 22.650 | 3370 | 3372 | 3377 | rVB | 32873 | 47002 | 3.66% | 0.267% |
| 83 | 22.715 | 3378 | 3383 | 3387 | rBV3 | 50164 | 98301 | 7.66% | 0.559% |
| 84 | 22.856 | 3399 | 3407 | 3413 | rBV4 | 47849 | 129432 | 10.09% | 0.736% |
| 85 | 23.549 | 3518 | 3525 | 3534 | rVB7 | 29162 | 76882 | 5.99% | 0.437% |
| 86 | 23.931 | 3581 | 3590 | 3597 | rBV | 246143 | 863480 | 67.32% | 4.913% |
| 87 | 24.184 | 3626 | 3633 | 3641 | rVB | 48872 | 115179 | 8.98% | 0.655% |
| 88 | 24.389 | 3662 | 3668 | 3673 | rBV6 | 20120 | 54864 | 4.28% | 0.312% |
| 89 | 24.660 | 3705 | 3714 | 3723 | rBV | 154964 | 417939 | 32.58% | 2.378% |
| 90 | 24.807 | 3730 | 3739 | 3752 | rVB | 232850 | 668160 | 52.09% | 3.801% |
| 91 | 24.959 | 3752 | 3765 | 3771 | rVV | 139011 | 422047 | 32.90% | 2.401% |
| 92 | 25.036 | 3773 | 3778 | 3792 | rVB3 | 62761 | 211374 | 16.48% | 1.203% |
| 93 | 26.035 | 3941 | 3948 | 3960 | rVB6 | 21921 | 76760 | 5.98% | 0.437% |
| 94 | 26.140 | 3960 | 3966 | 3967 | rBV4 | 13812 | 21803 | 1.70% | 0.124% |
| 95 | 26.364 | 3995 | 4004 | 4014 | rBV4 | 26291 | 99266 | 7.74% | 0.565% |
| 96 | 28.684 | 4384 | 4399 | 4418 | rVB4 | 102845 | 517279 | 40.33% | 2.943% |
| 97 | 29.154 | 4466 | 4479 | 4480 | rBV | 24275 | 63286 | 4.93% | 0.360% |
| 98 | 29.307 | 4497 | 4505 | 4516 | rVB3 | 24151 | 84958 | 6.62% | 0.483% |
| 99 | 29.854 | 4581 | 4598 | 4611 | rBV2 | 73860 | 372572 | 29.05% | 2.120% |
| 100 | 30.482 | 4694 | 4705 | 4713 | rBV4 | 20589 | 82814 | 6.46% | 0.471% |

Sum of corrected areas: 17576954

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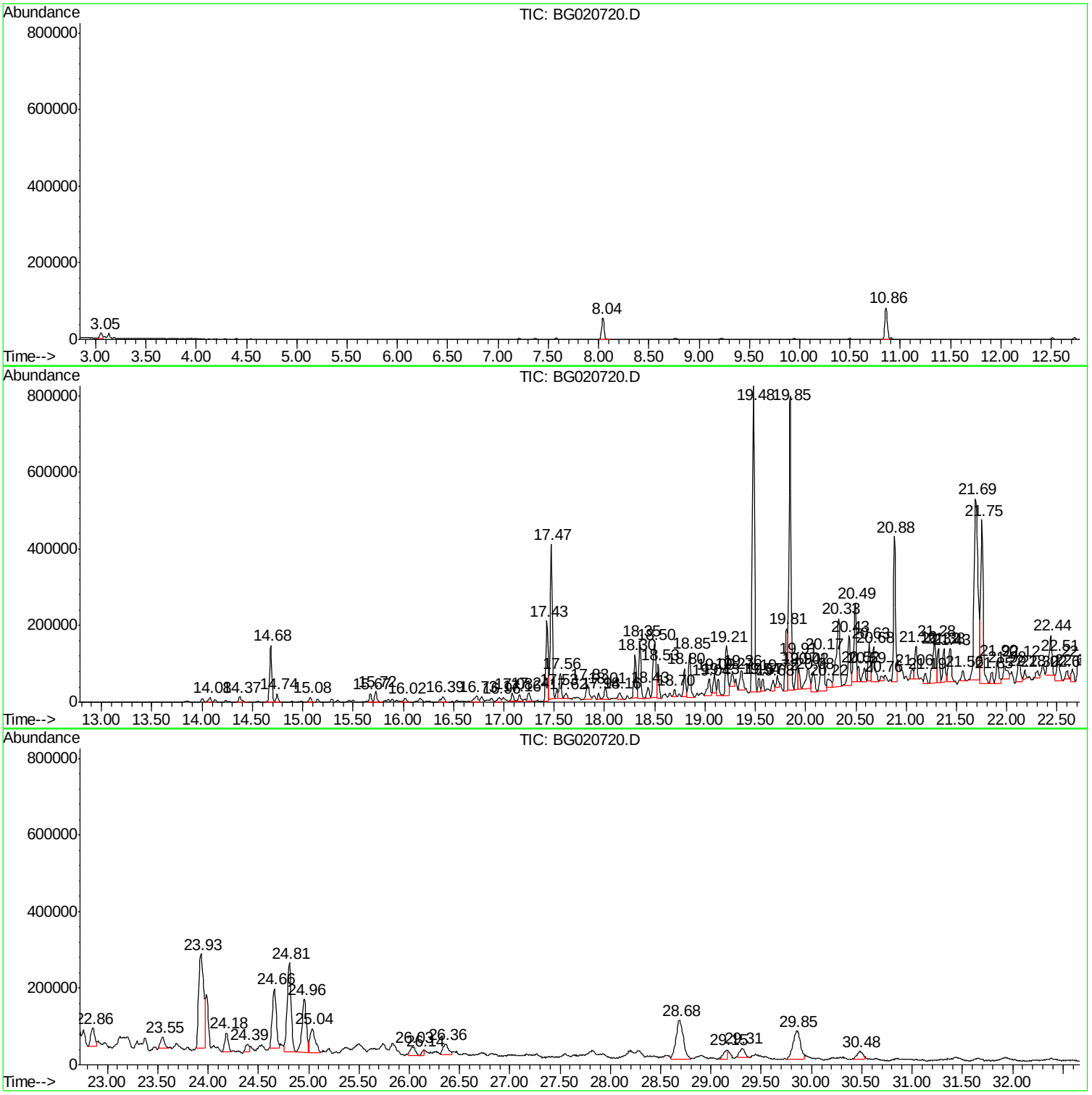
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.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\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

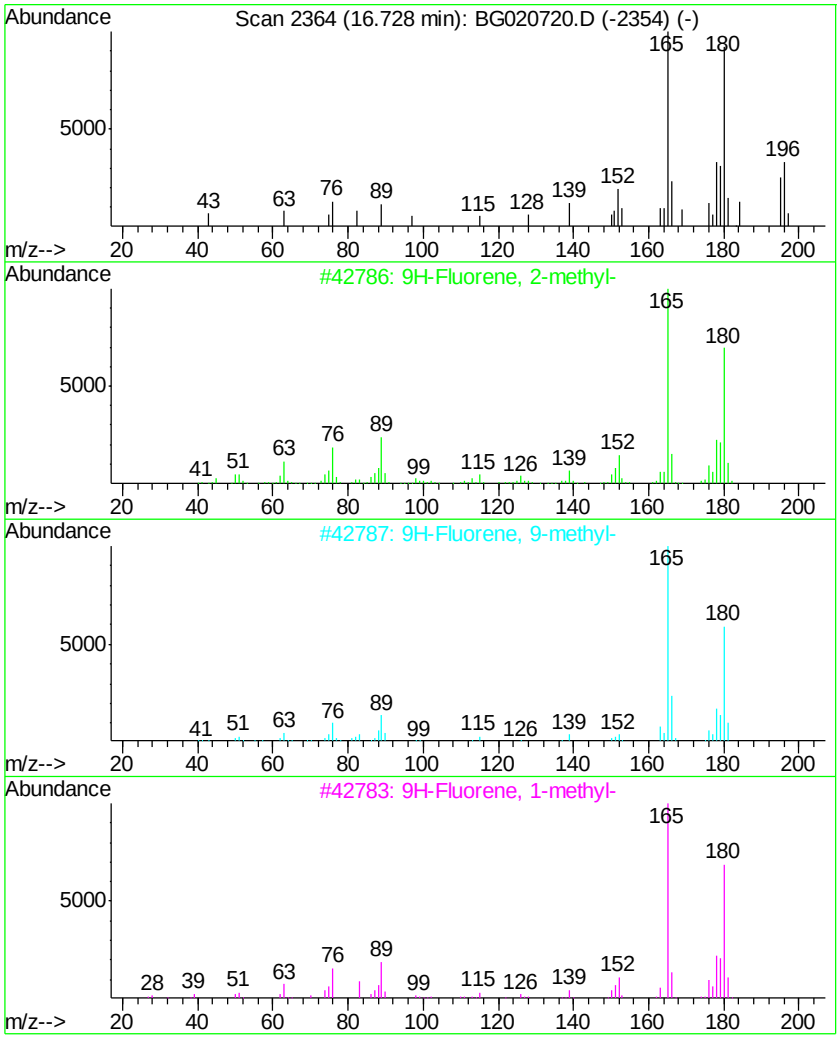
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

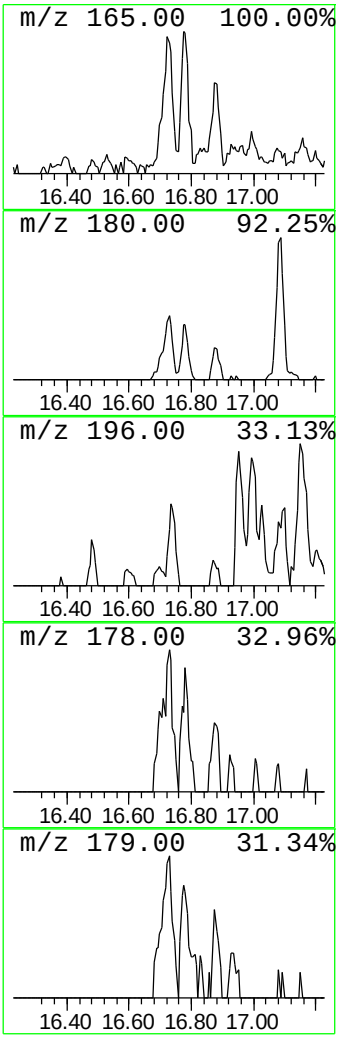
**********

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.73 | 2.57 ng/ul | 40033 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 86 |
| 2 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 70 |
| 3 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 62 |
| 4 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 62 |
| 5 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 62 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

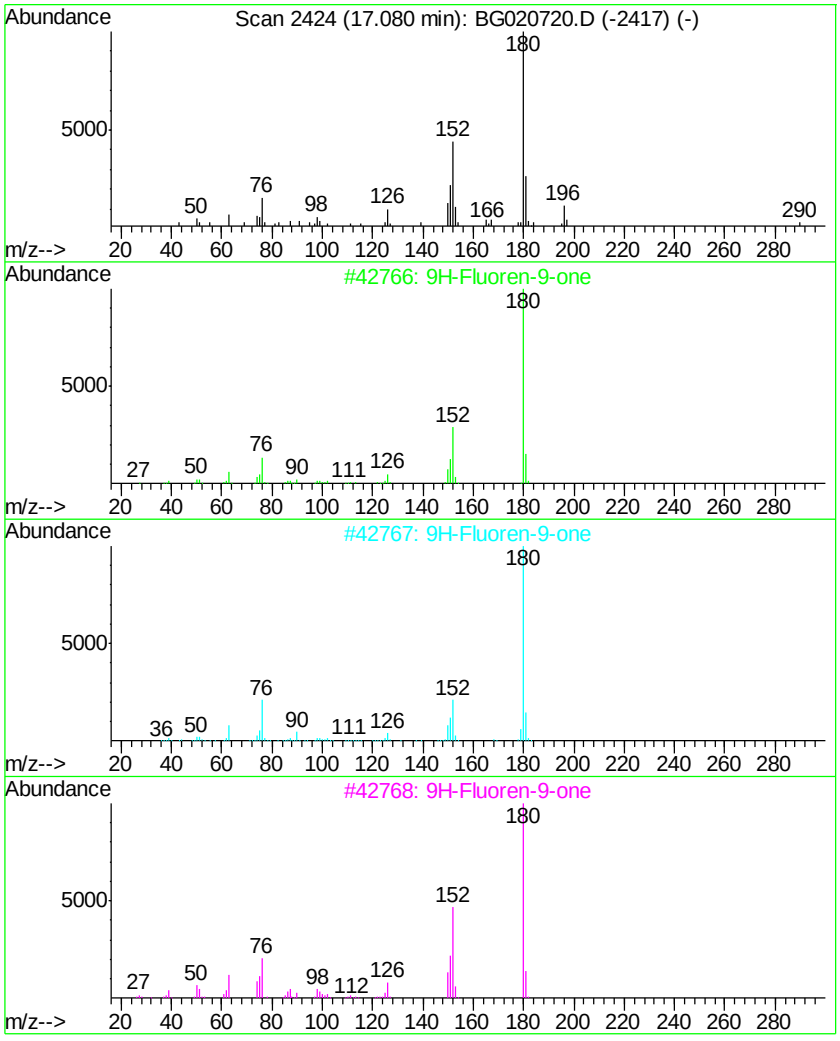
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

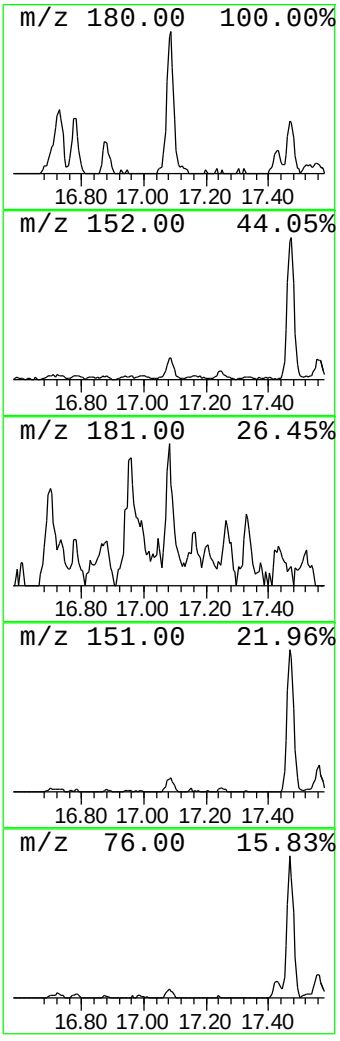
**********

Peak Number 3 9H-Fluoren-9-one Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.08 | 2.26 ng/ul | 35231 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 87 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 83 |
| 3 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 83 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 76 |
| 5 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 72 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

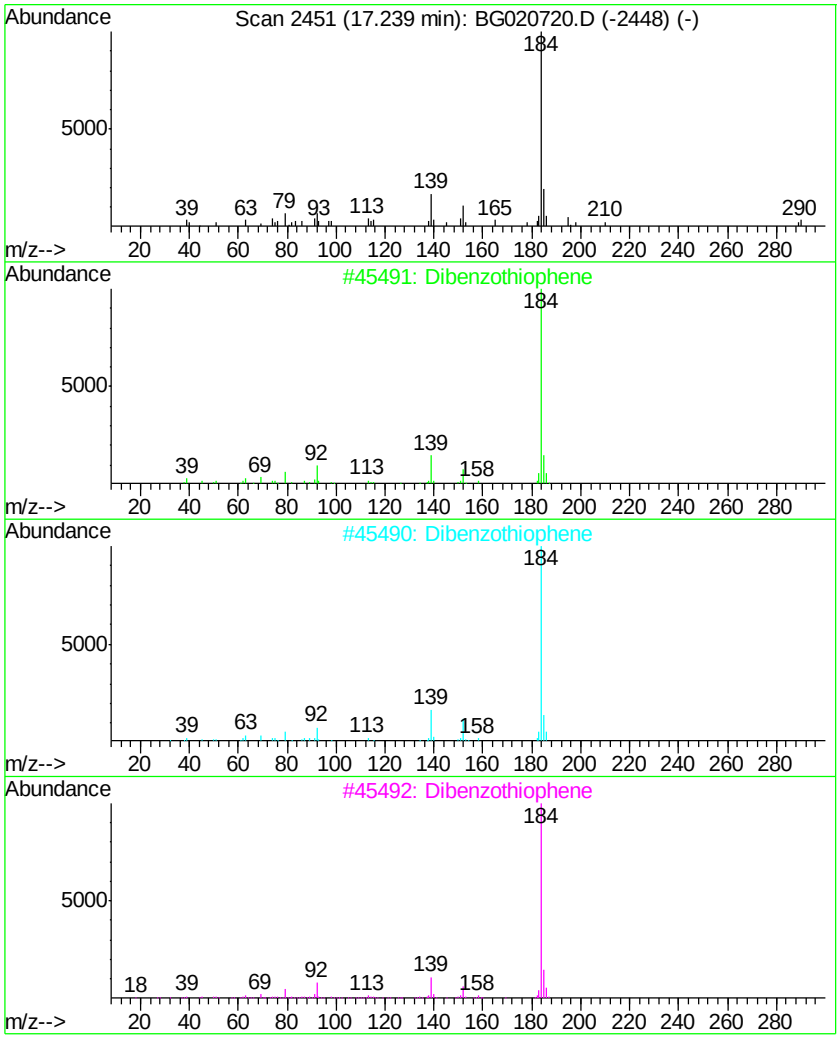
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

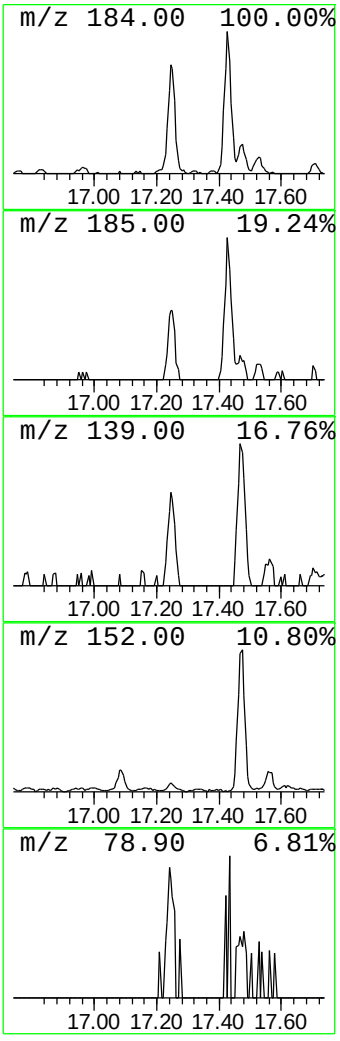
**********

Peak Number 4 Dibenzothiophene Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.24 | 2.50 ng/ul | 38904 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 90 |
| 3 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 90 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 90 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

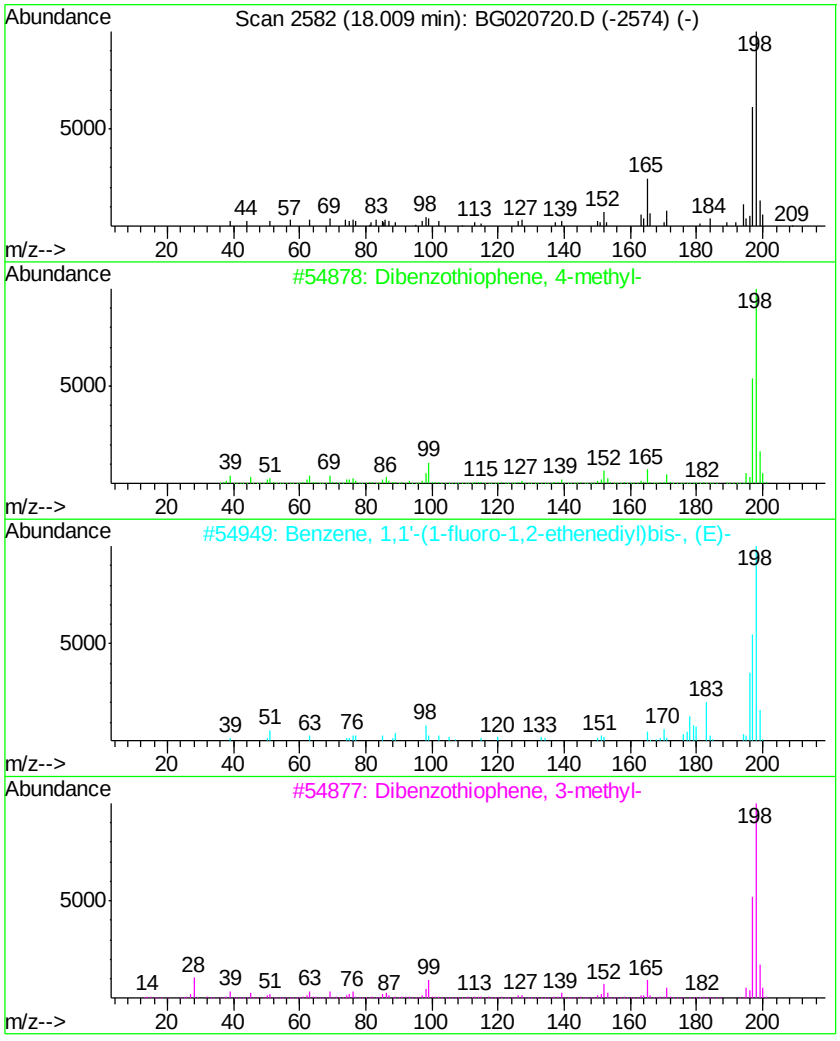
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

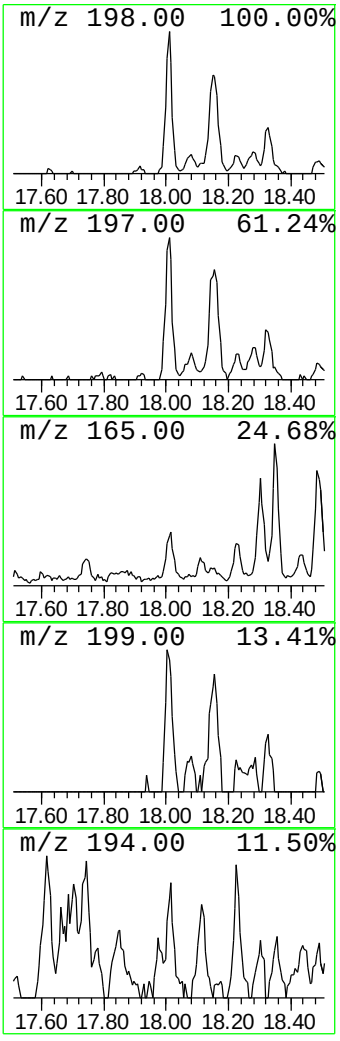
**********

Peak Number 5 Dibenzothiophene, 4-methyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 3.67 ng/ul | 57184 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 74 |
| 2 | Benzene, 1,1'-(1-fluoro-1,2-ethe... | 198 | C14H11F | 000671-19-2 | 72 |
| 3 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 70 |
| 4 | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9 | 68 |
| 5 | Pyridine, 4-(4-dimethylaminophen... | 198 | C13H14N2 | 001137-80-0 | 64 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

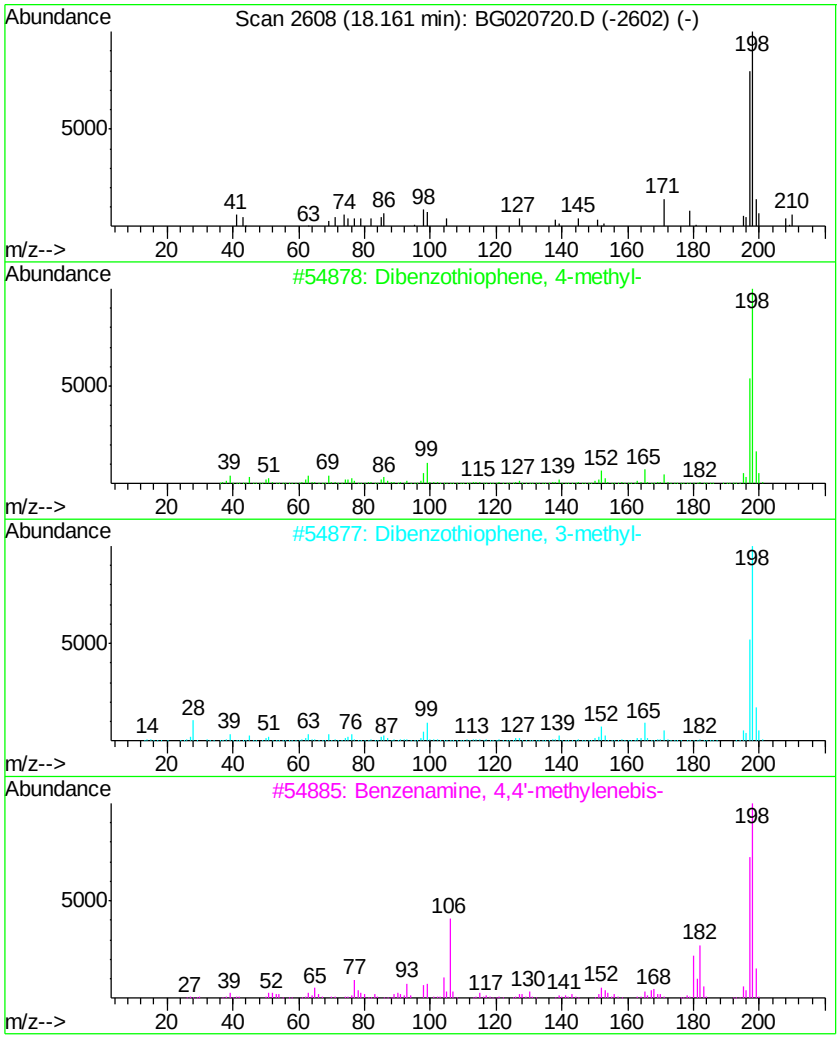
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

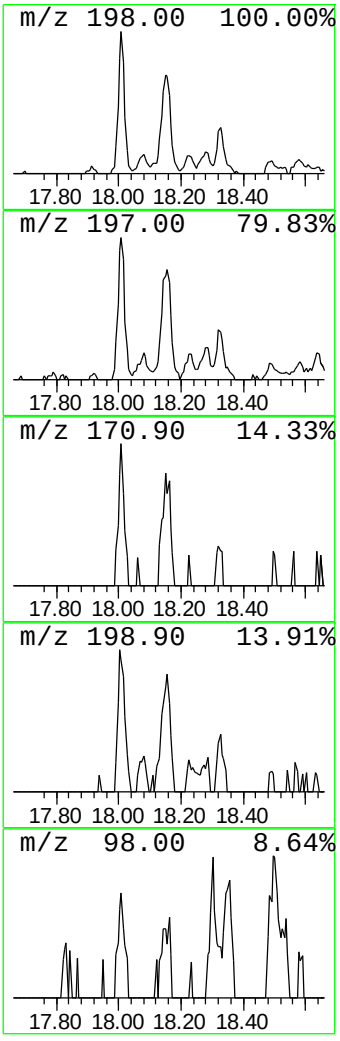
**********

Peak Number 6 Dibenzothiophene, 3-methyl- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.16 | 2.31 ng/ul | 35915 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 90 |
| 2 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 90 |
| 3 | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9 | 80 |
| 4 | 9-Acridinamine, 1,2,3,4-tetrahydro- | 198 | C13H14N2 | 000321-64-2 | 72 |
| 5 | 9-Acridinamine, 1,2,3,4-tetrahydro- | 198 | C13H14N2 | 000321-64-2 | 72 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

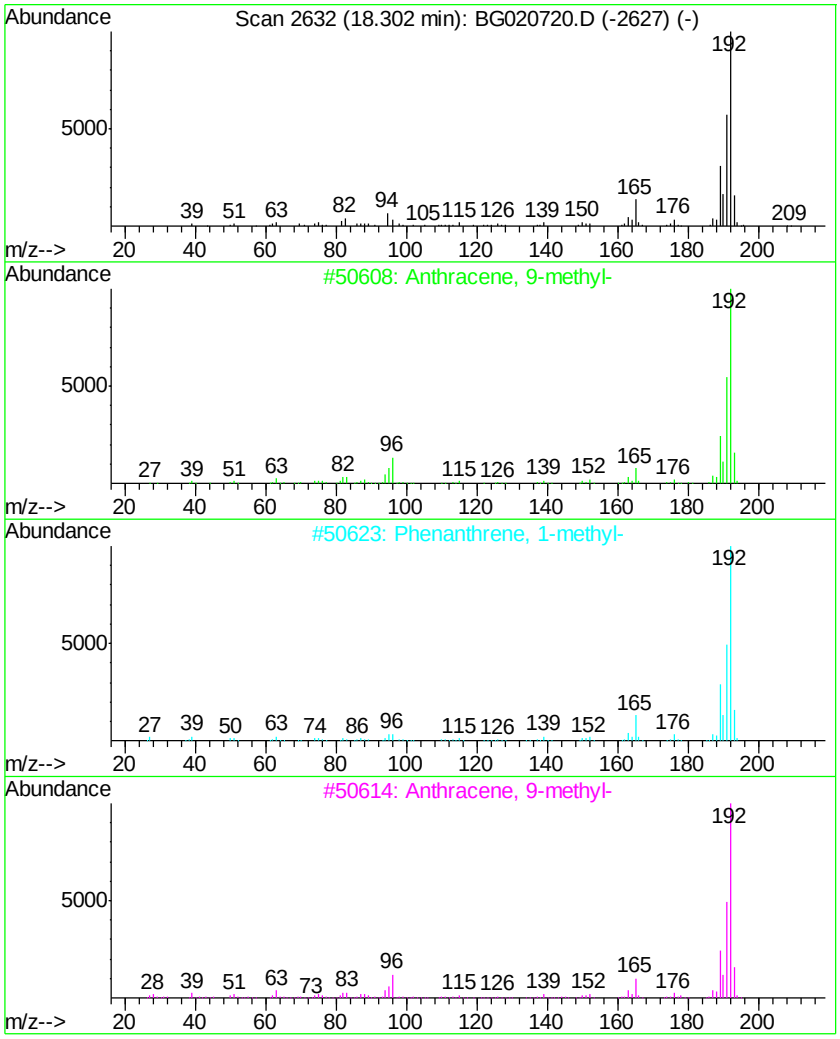
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

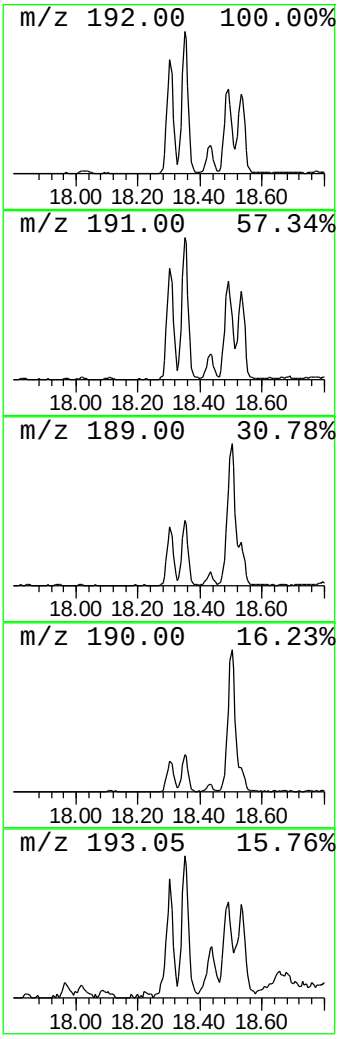
**********

Peak Number 7 Anthracene, 9-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 10.82 ng/ul | 168426 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 95 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 95 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

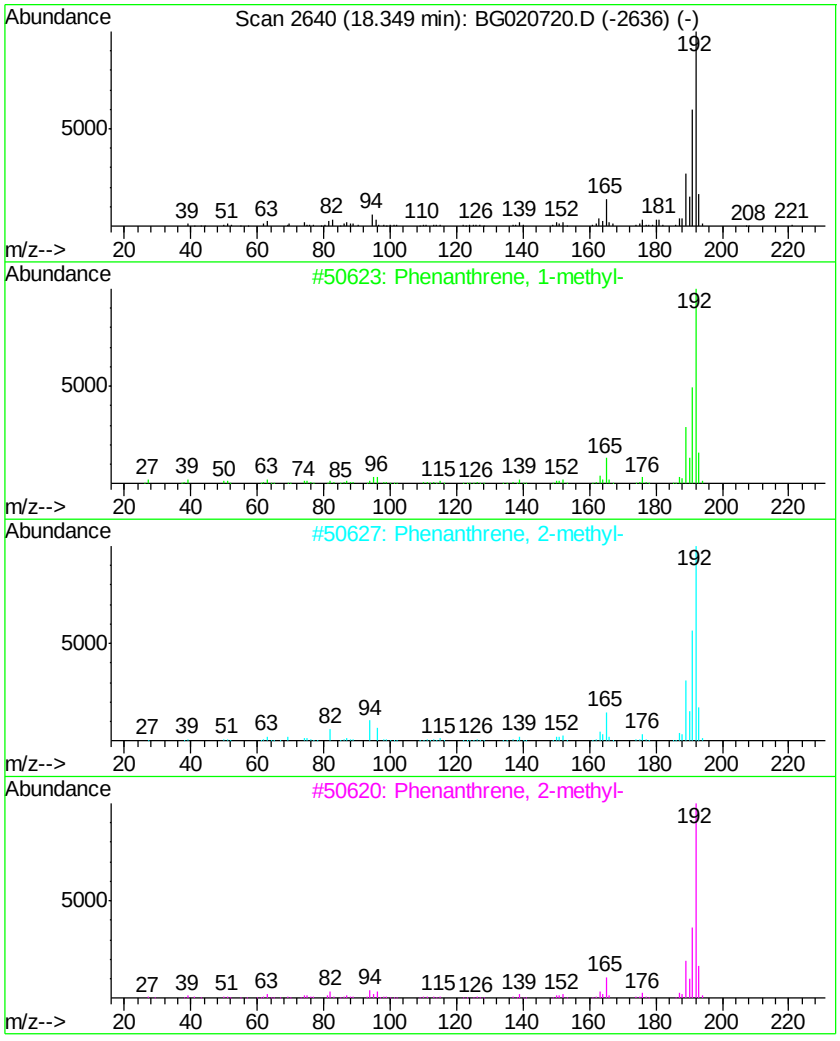
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

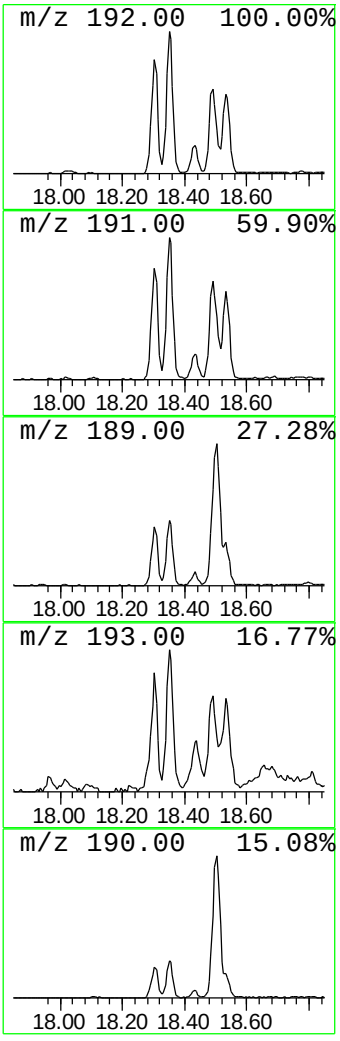
**********

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.35 | 14.54 ng/ul | 226350 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

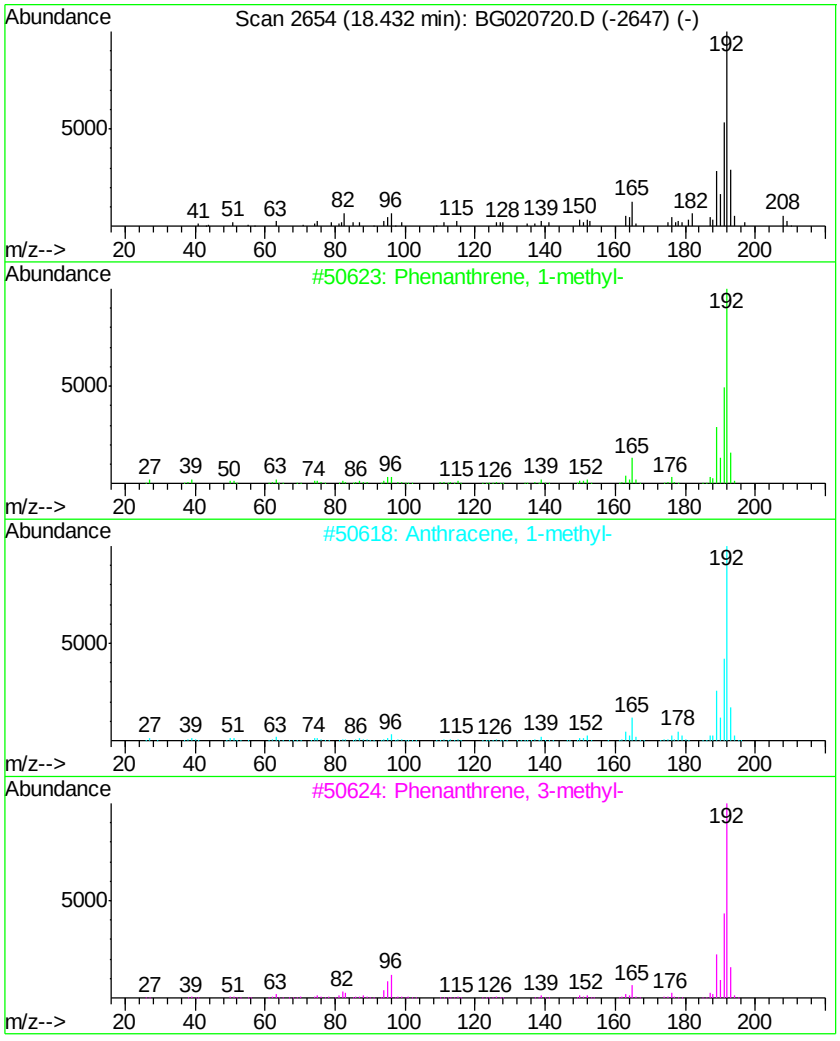
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

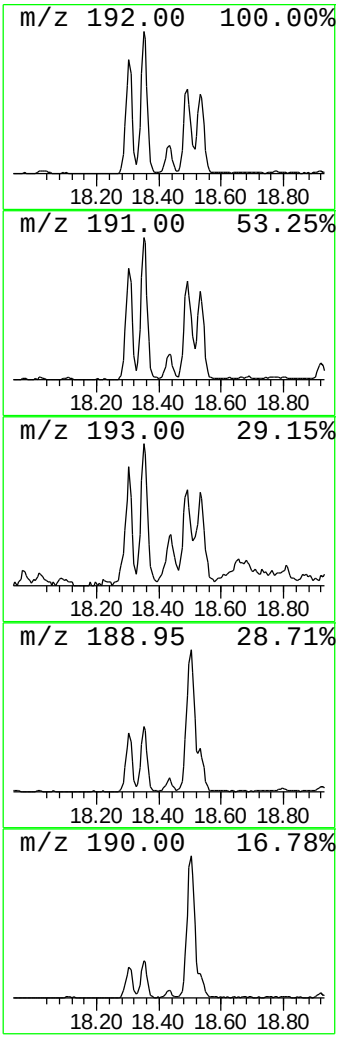
**********

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.43 | 3.54 ng/ul | 55043 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |
| 3 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 90 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 81 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 81 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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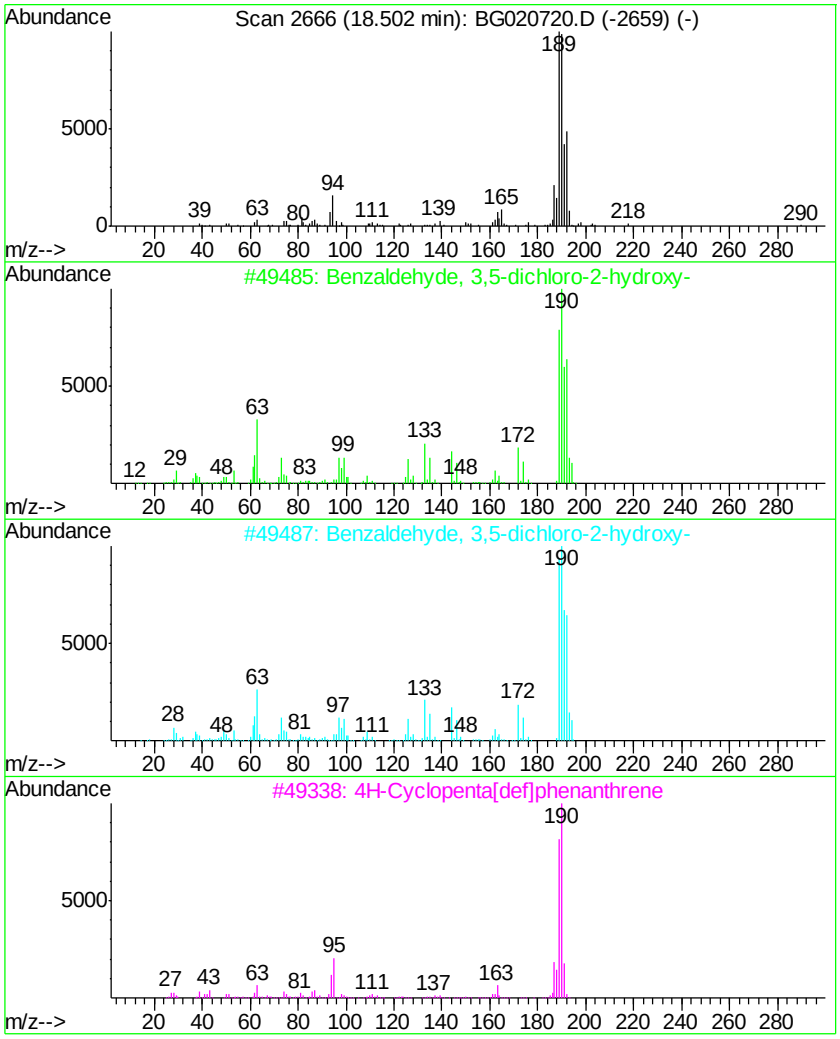
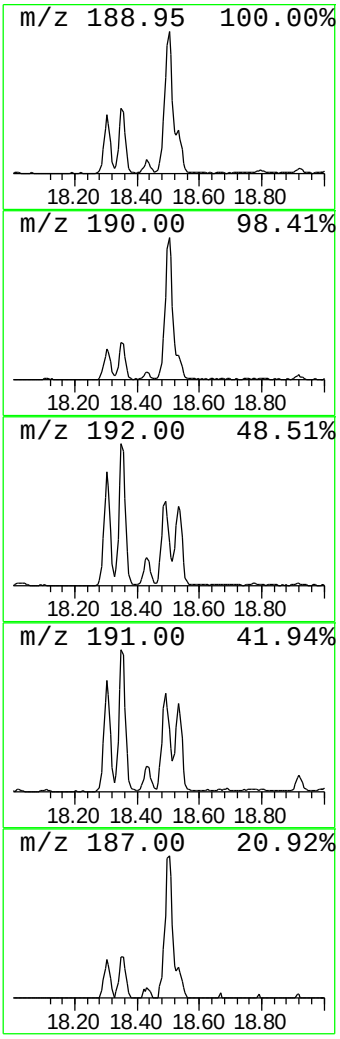
Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.50 | 17.48 ng/ul | 272103 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 55 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 42 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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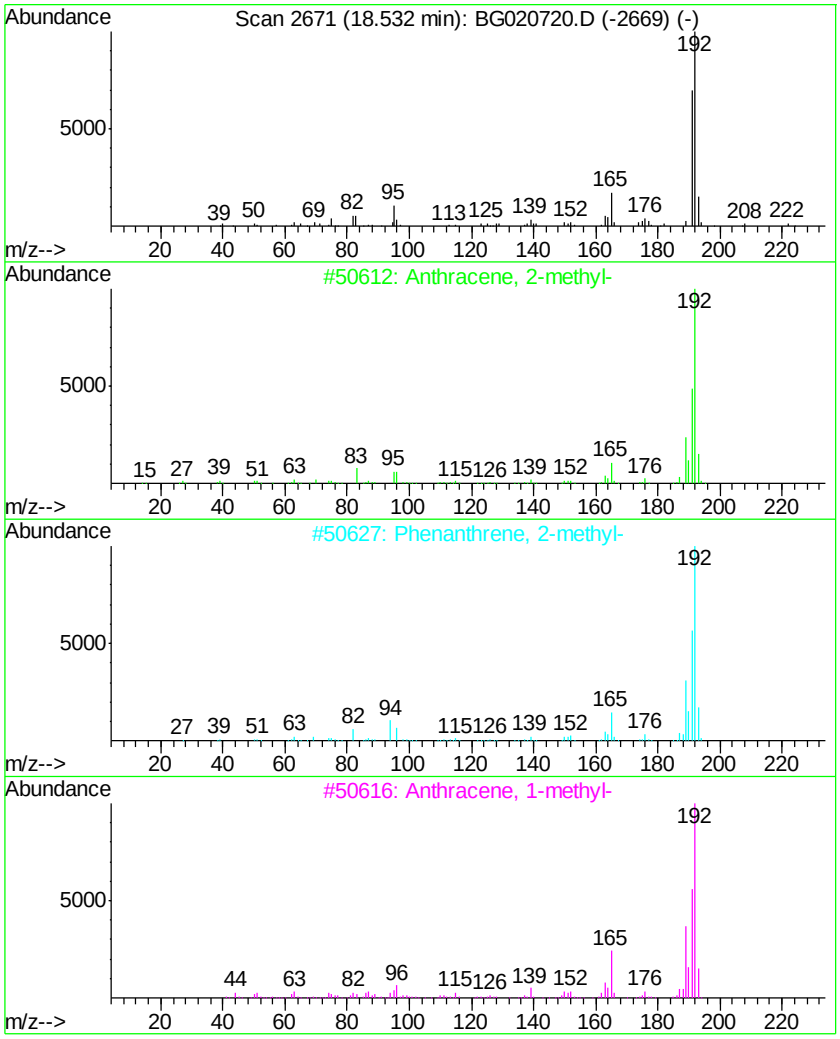
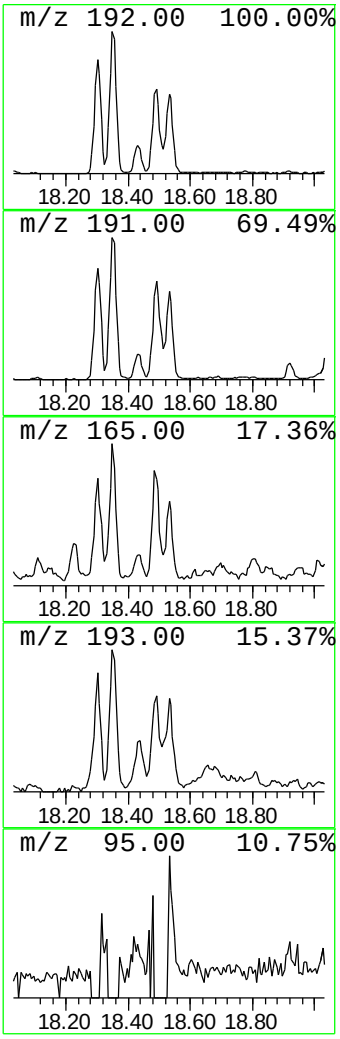
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.53 | 6.95 ng/ul | 108266 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 91 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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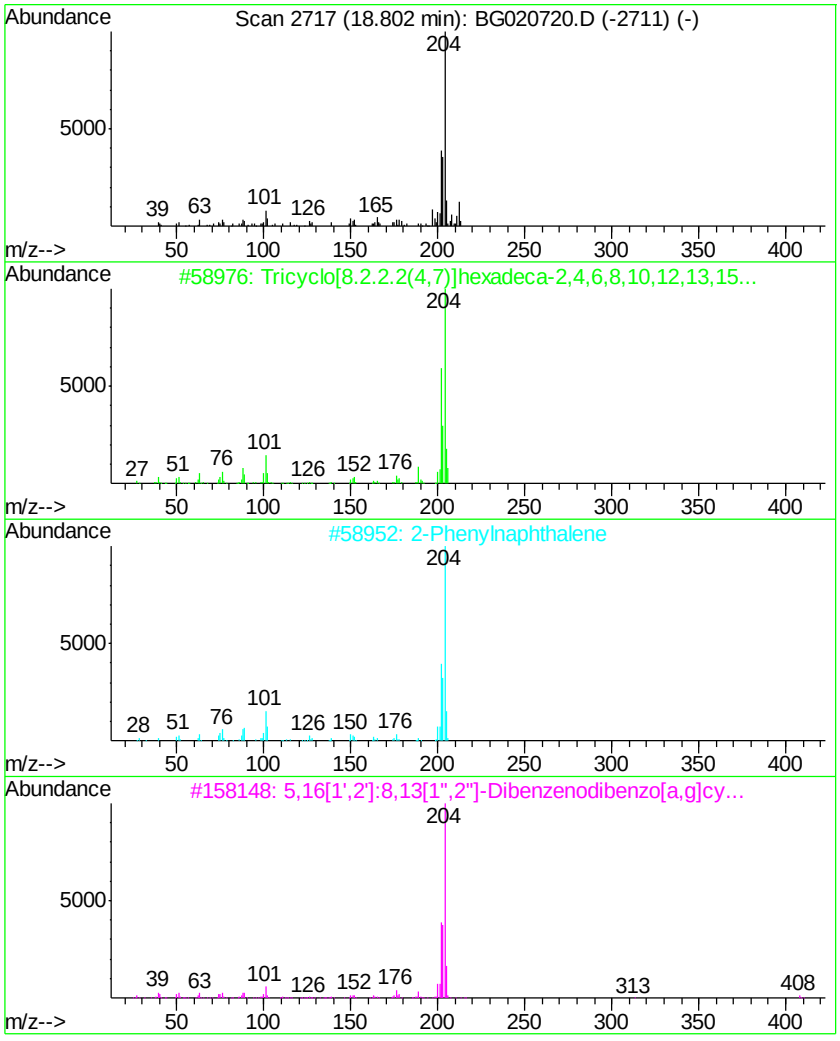
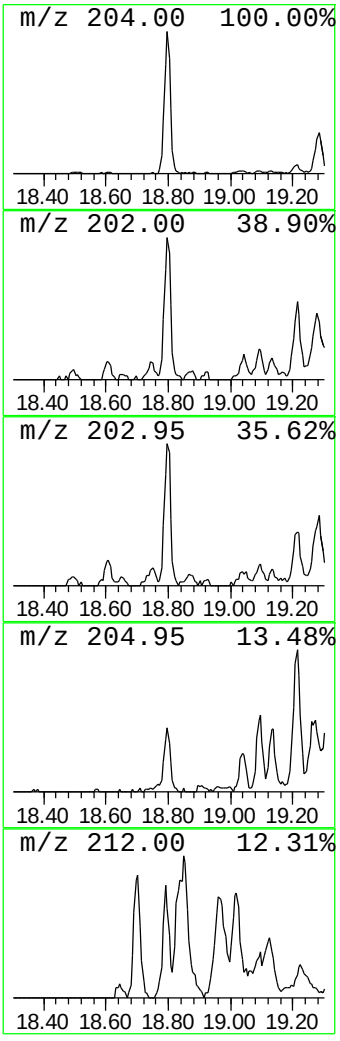
Peak Number 12 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.80 | 7.14 ng/ul | 111124 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 64 |
| 2 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 64 |
| 3 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 64 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 60 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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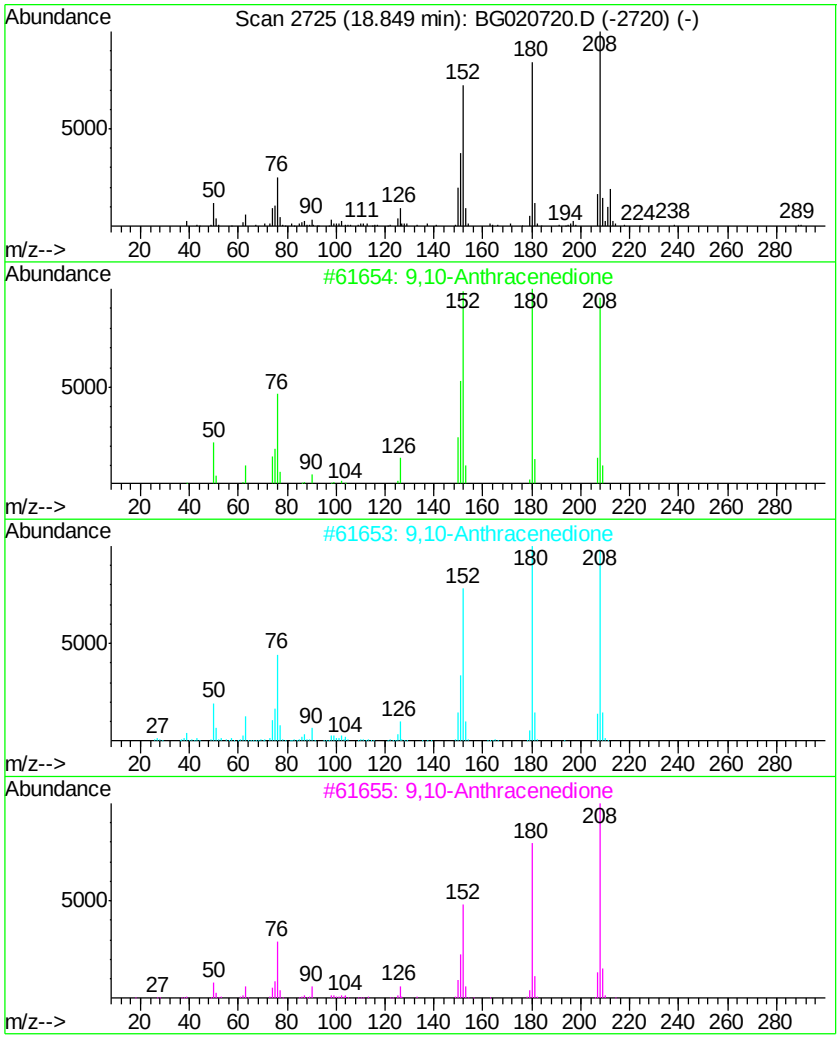
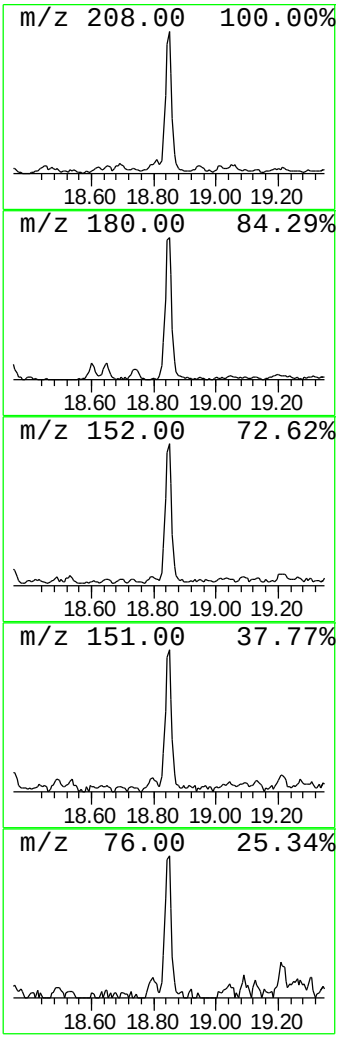
Peak Number 13 9,10-Anthracenedione Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 11.90 ng/ul | 185284 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 95 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 90 |
| 4 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 70 |
| 5 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 50 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

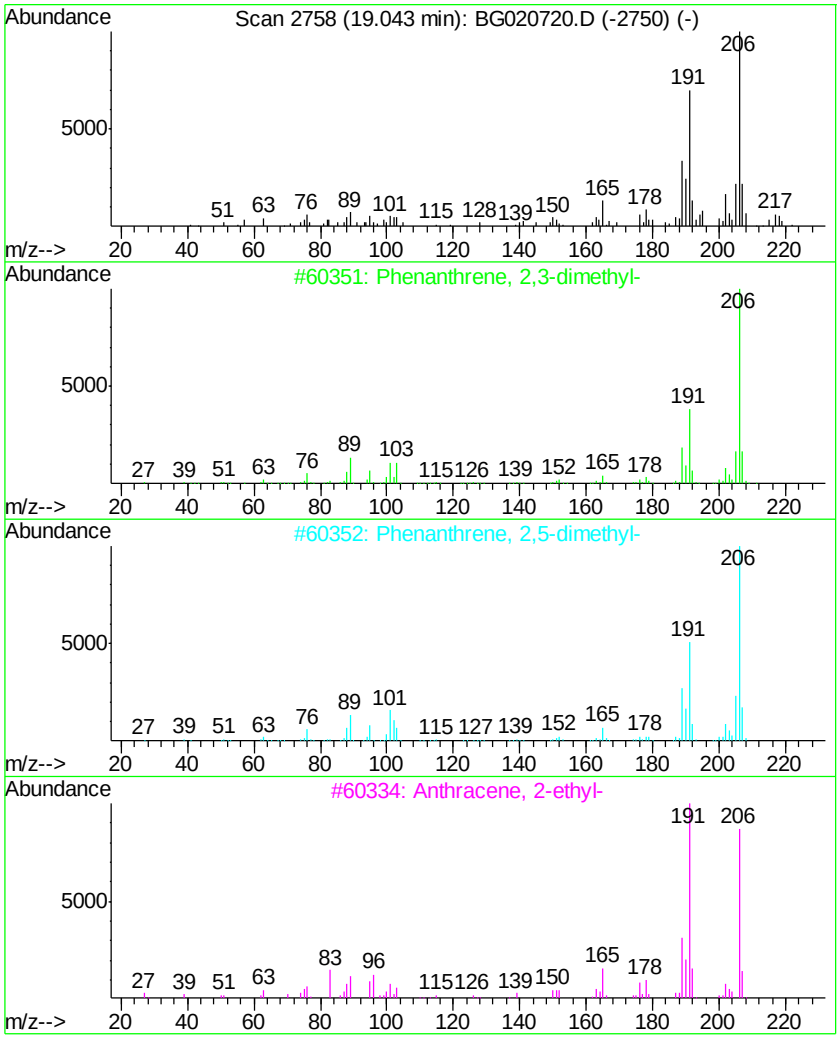
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

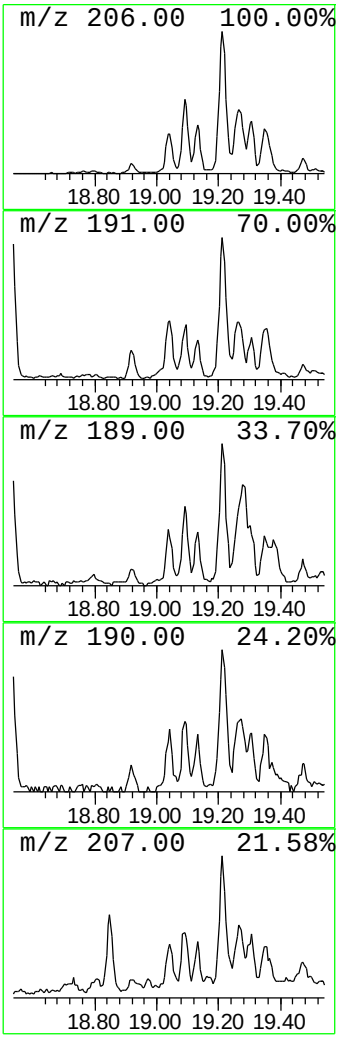
**********

Peak Number 14 Phenanthrene, 2,3-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.04 | 5.79 ng/ul | 90122 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 3 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 86 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 81 |
| 5 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 76 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

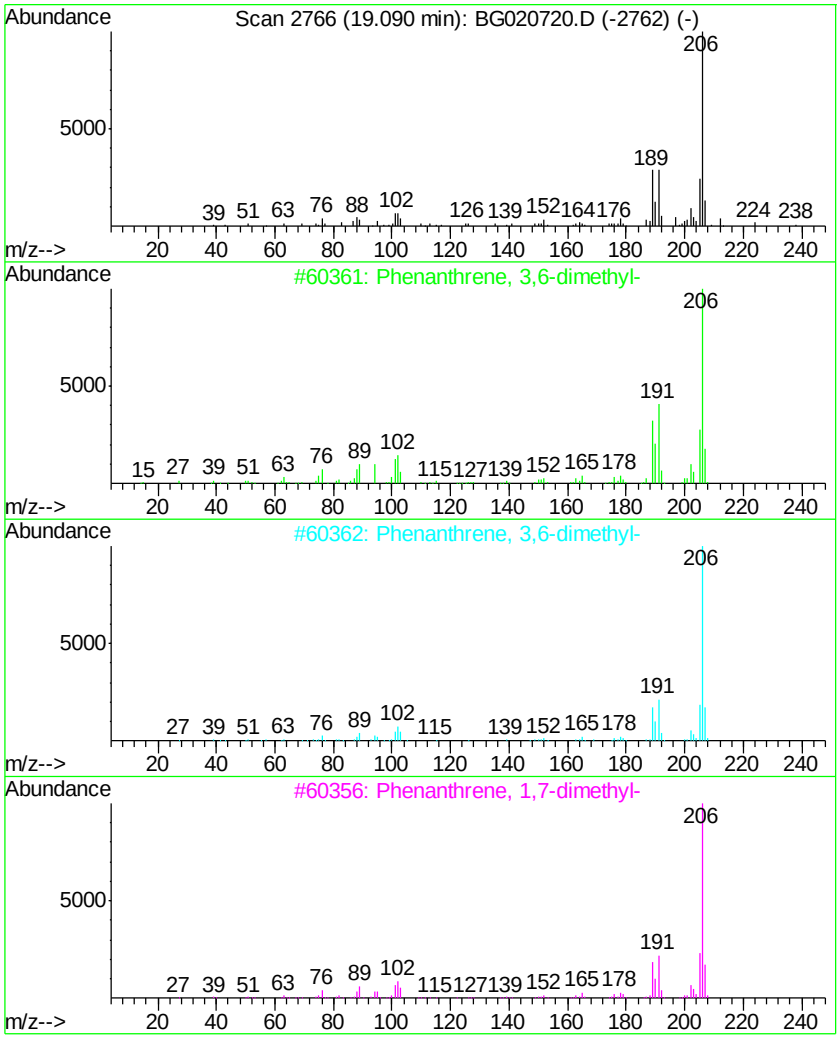
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

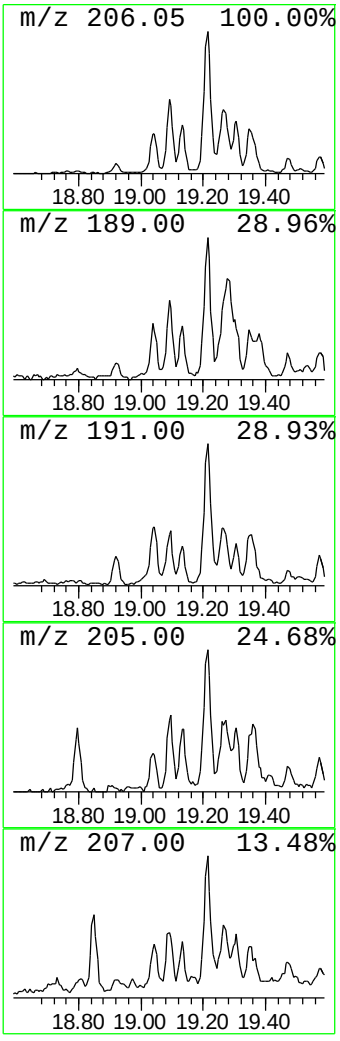
**********

Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.09 | 4.05 ng/ul | 63003 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 3 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |
| 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

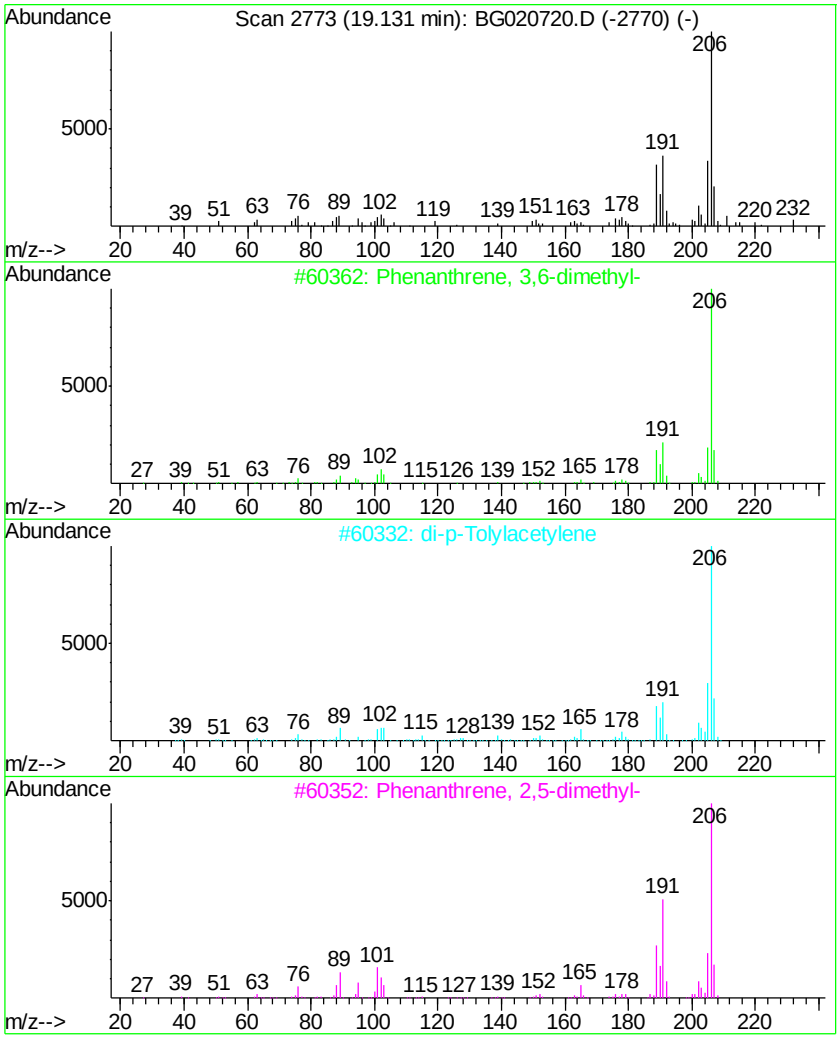
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

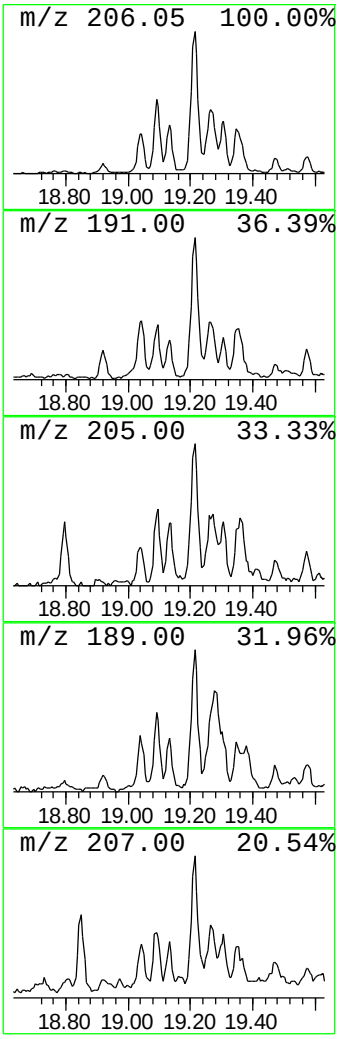
**********

Peak Number 16 di-p-Tolylacetylene Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.13 | 3.54 ng/ul | 55151 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 87 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 87 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

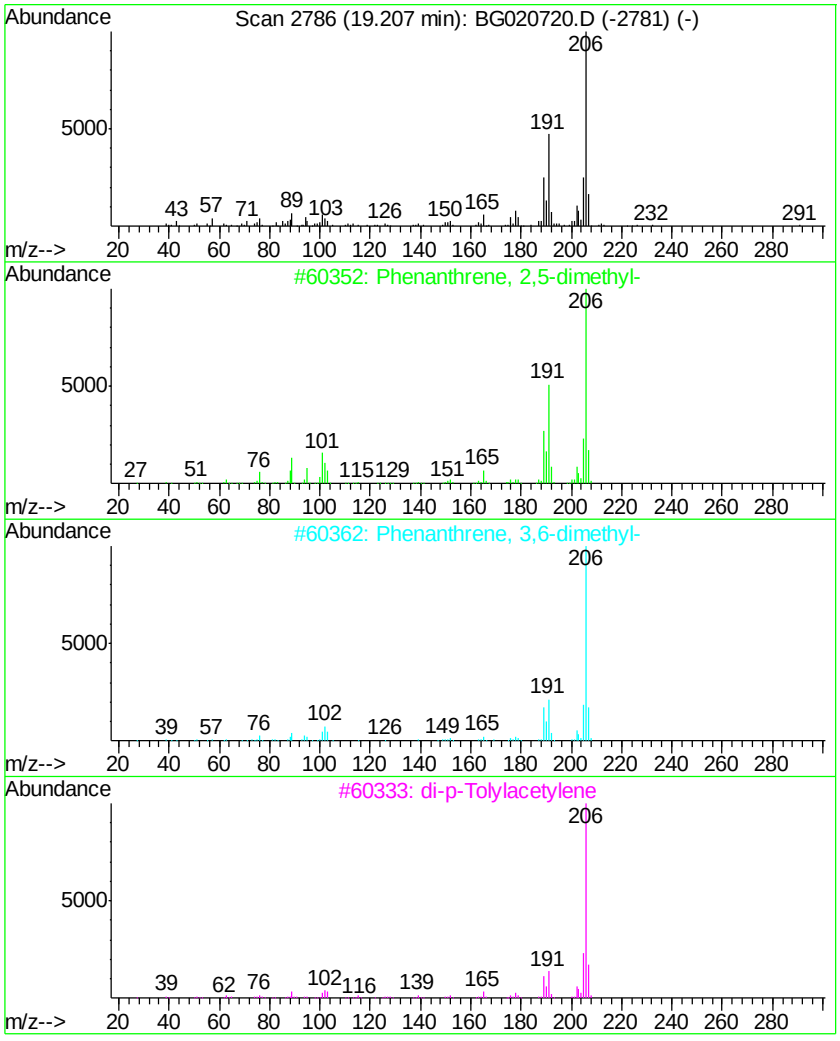
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

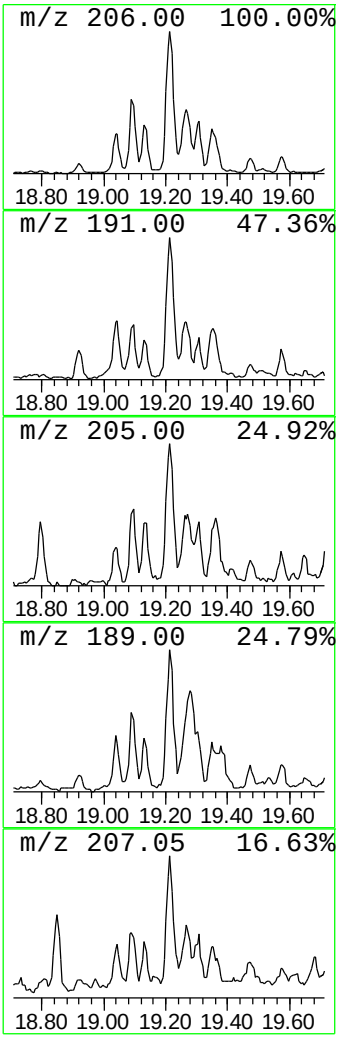
**********

Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.21 | 13.27 ng/ul | 206651 | Phenanthrene-d10 | 17.43 |

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

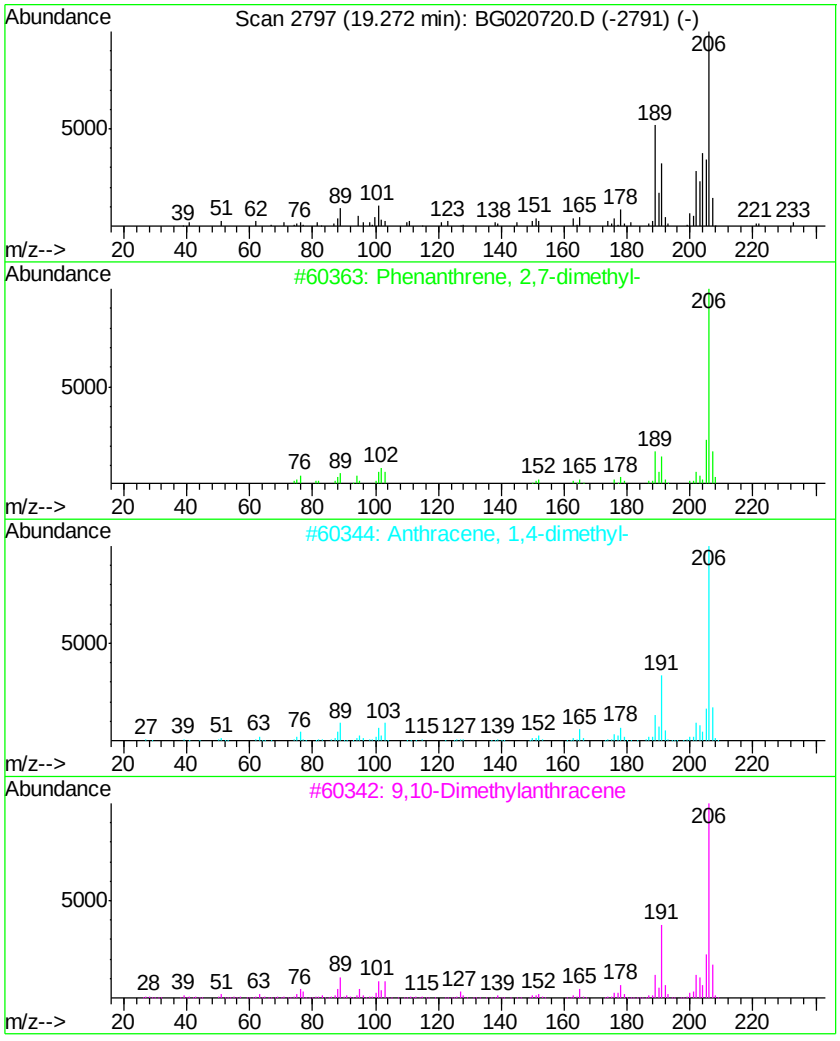
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

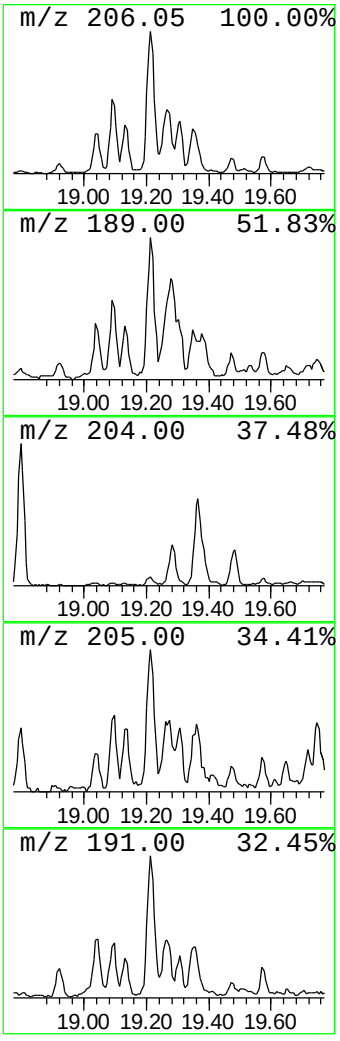
**********

Peak Number 18 Phenanthrene, 2,7-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.27 | 4.35 ng/ul | 67694 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 64 |
| 2 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 60 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 60 |
| 4 | 1,3-Butadiene, 1,4-diphenyl-, (E... | 206 | C16H14 | 000538-81-8 | 53 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 53 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

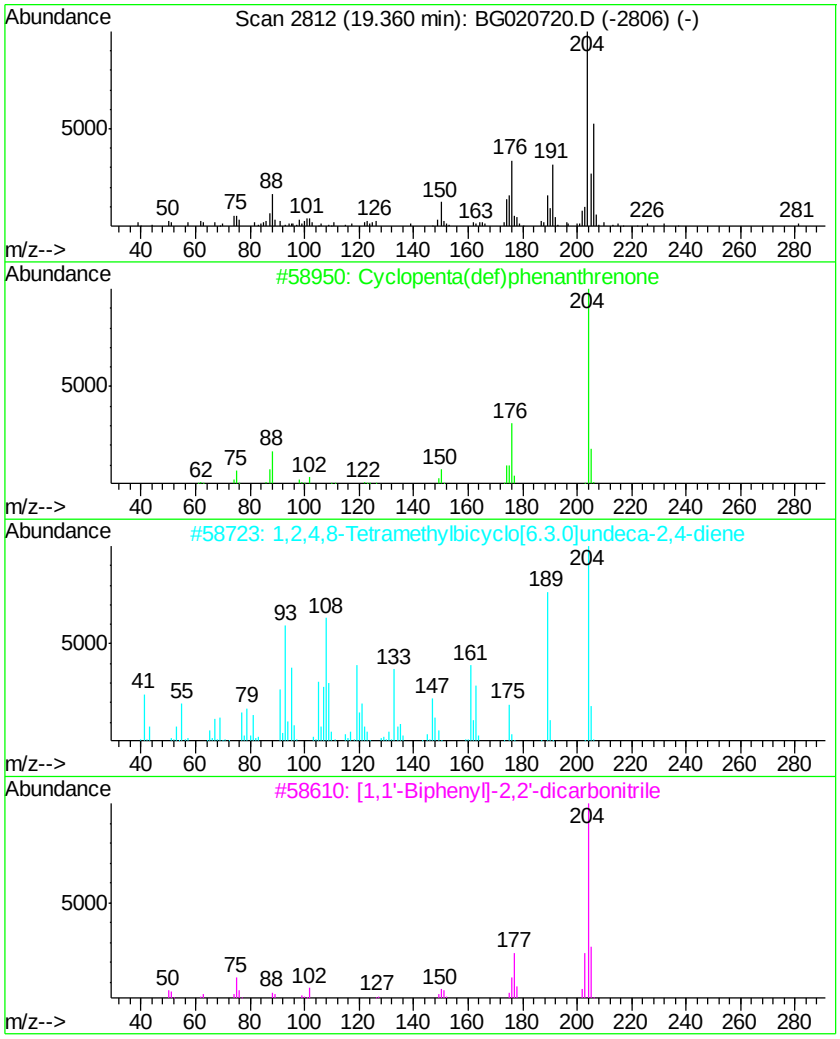
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

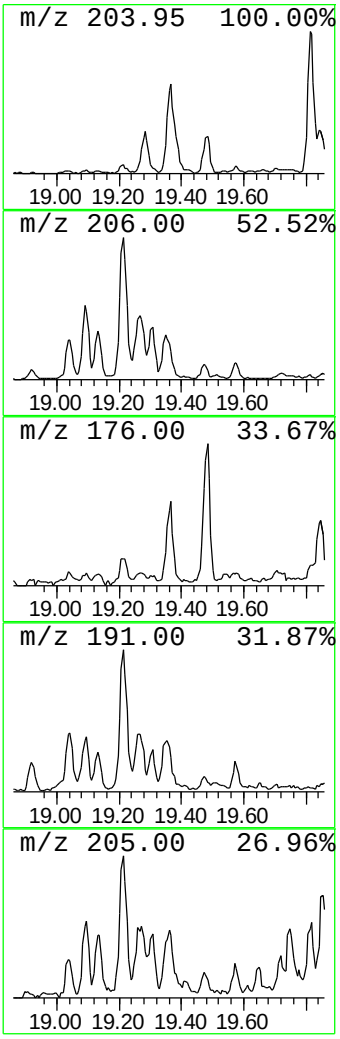
**********

Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.36 | 7.09 ng/ul | 110318 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 90 |
| 2 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 50 |
| 3 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 38 |
| 4 | Mannose, 6-deoxy-2,3,4,5-tetraki... | 452 | C18H44O5Si4 | 019127-15-2 | 38 |
| 5 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 35 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

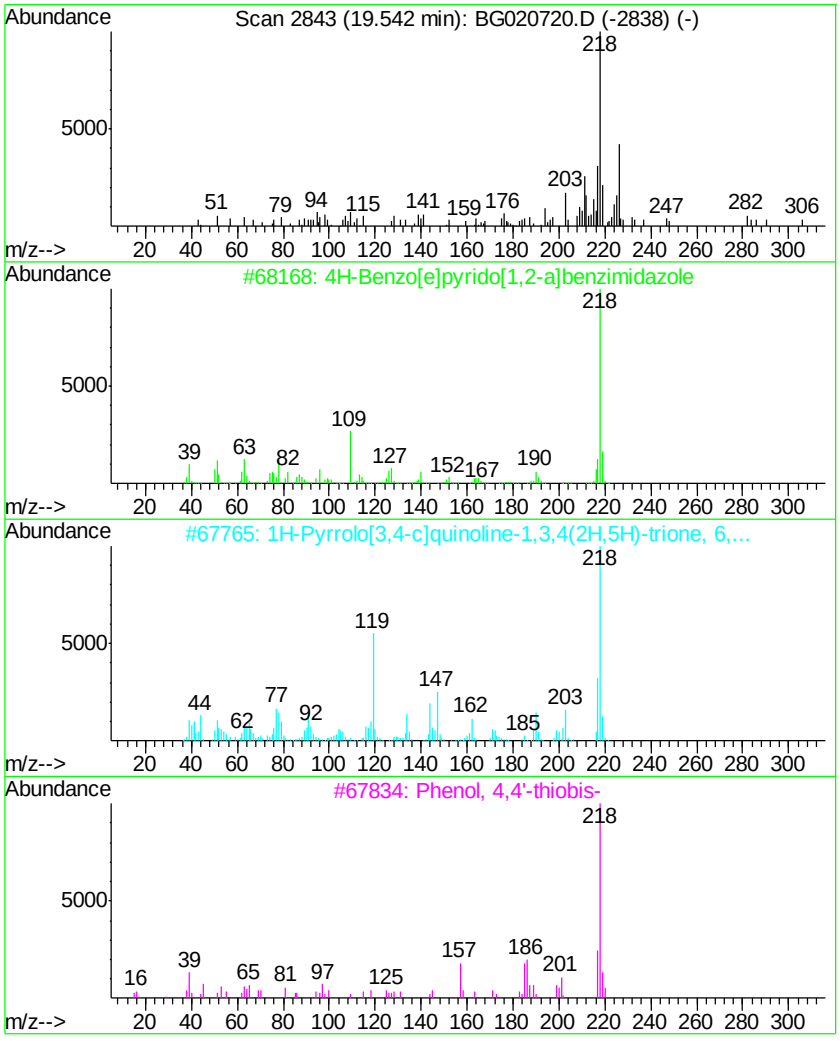
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

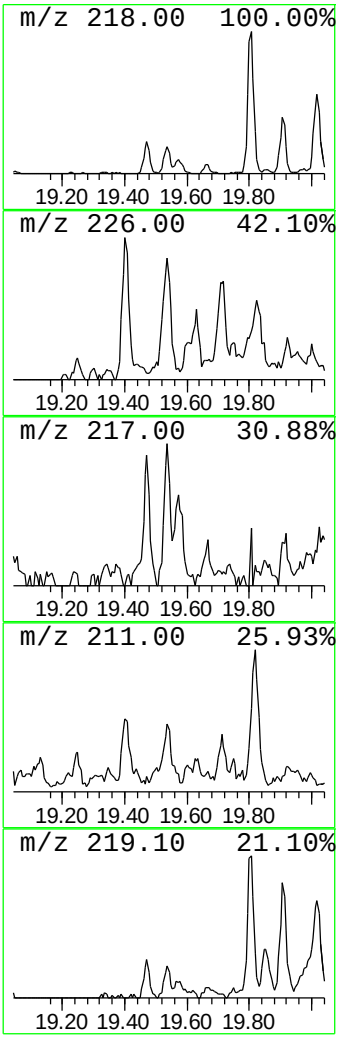
**********

Peak Number 20 unknown-01 Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.54 | 3.04 ng/ul | 47253 | Phenanthrene-d10 | 17.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Benzo[e]pyrido[1,2-a]benzimid... | 218 | C15H10N2 | 000239-25-8 | 43 |
| 2 | 1H-Pyrrolo[3,4-c]quinoline-1,3,4... | 218 | C11H10N2O3 | 181021-85-2 | 38 |
| 3 | Phenol, 4,4'-thiobis- | 218 | C12H10O2S | 002664-63-3 | 37 |
| 4 | 2-(3-Cyano-6,7,8,9-tetrahydro-5H... | 373 | C17H19N5OS2 | 1000294-83-0 | 37 |
| 5 | 3,5-Cyclohexadiene-1,2-dione, 3,... | 244 | C6Cl4O2 | 002435-53-2 | 35 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

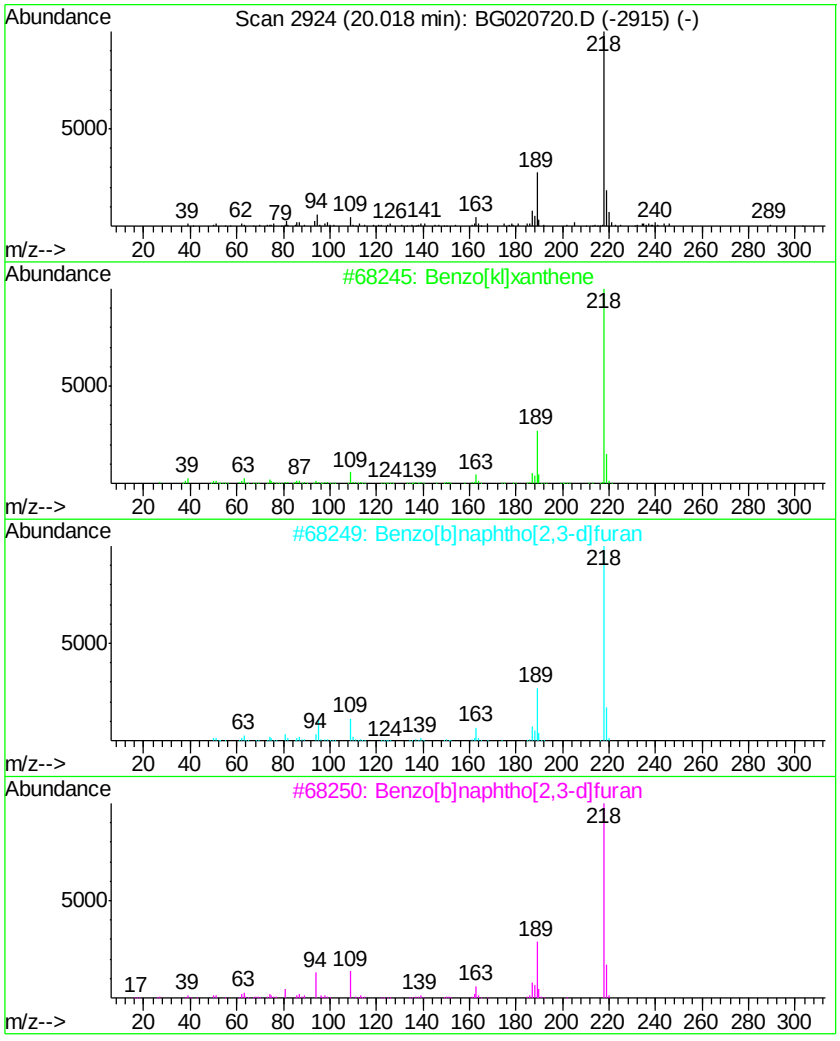
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

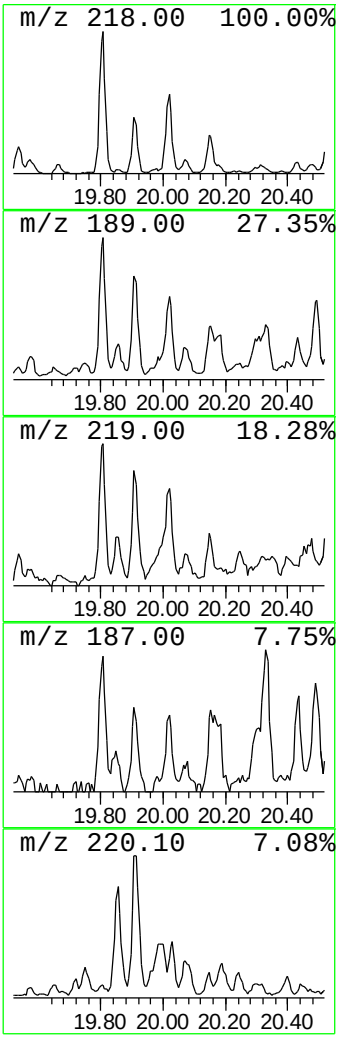
**********

Peak Number 21 Benzo[kl]xanthene Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.02 | 2.20 ng/ul | 141363 | Chrysene-d12 | 21.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[kl]xanthene | 218 | C16H10O | 000200-23-7 | 93 |
| 2 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 3 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 91 |
| 4 | Benzo[b]naphtho[1,2-d]furan | 218 | C16H10O | 000239-30-5 | 91 |
| 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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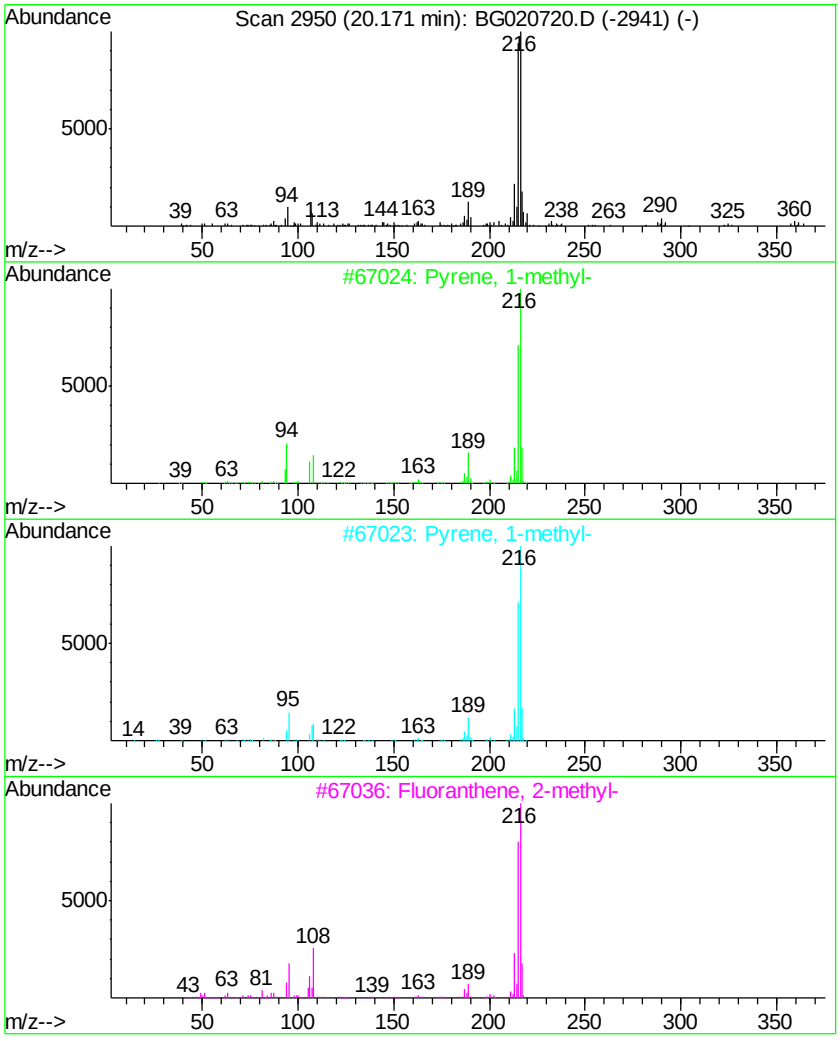
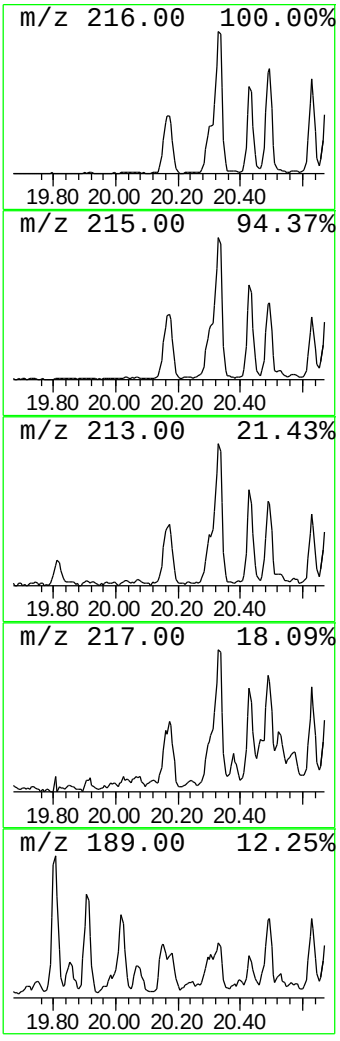
Peak Number 22 Pyrene, 1-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.17 | 4.19 ng/ul | 268624 | Chrysene-d12 | 21.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

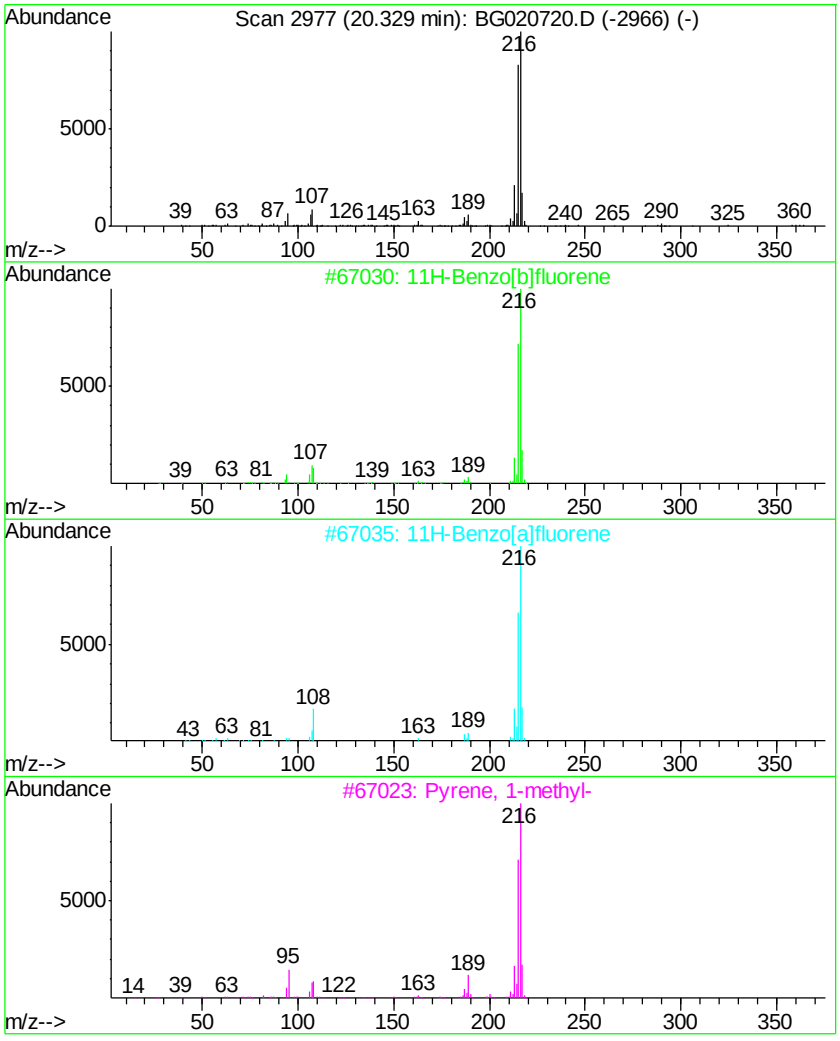
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

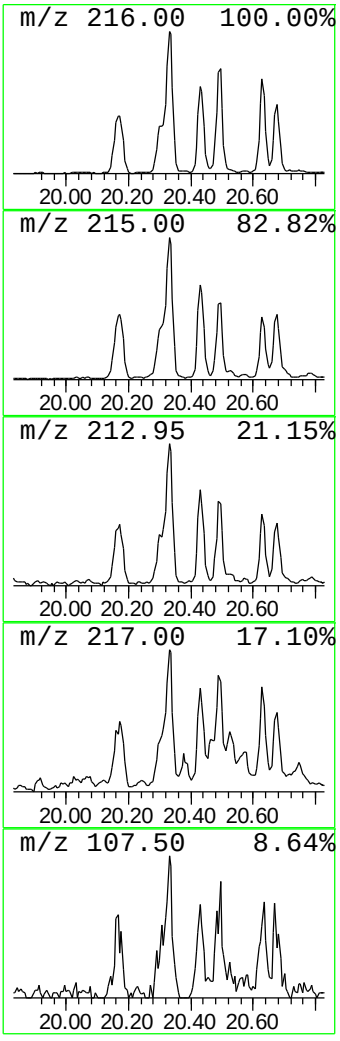
**********

Peak Number 23 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.33 | 6.78 ng/ul | 435082 | Chrysene-d12 | 21.70 |

| 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 | 94 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

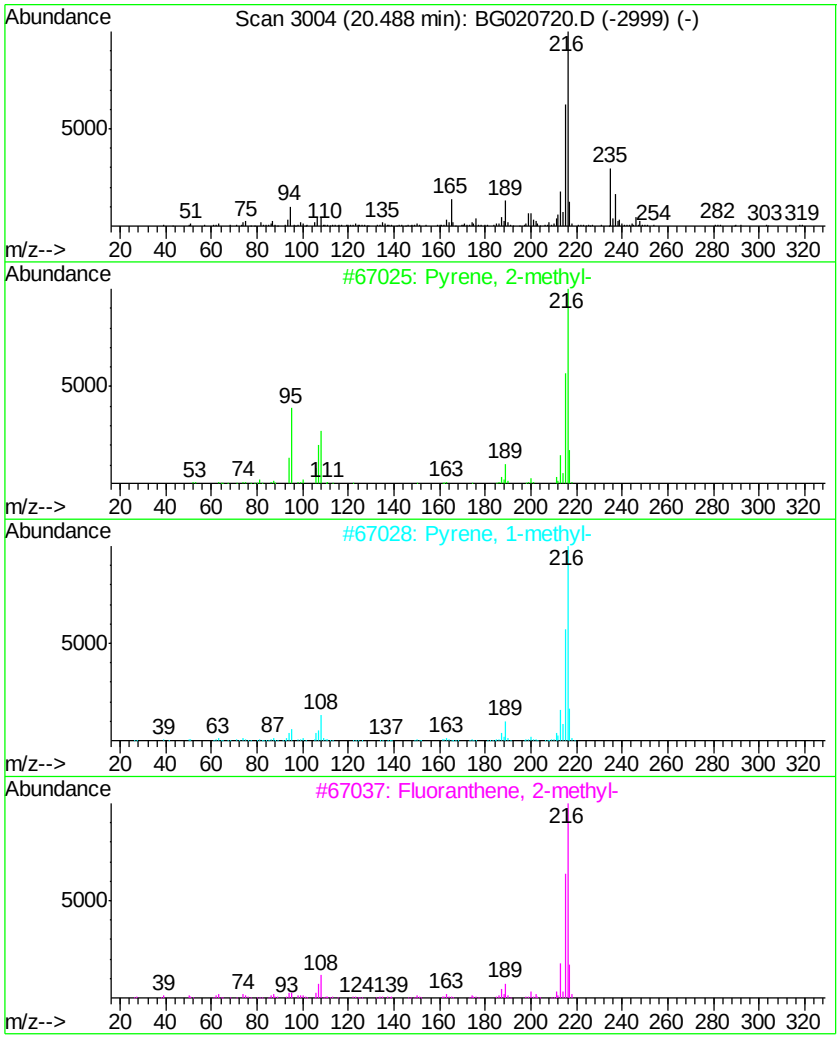
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

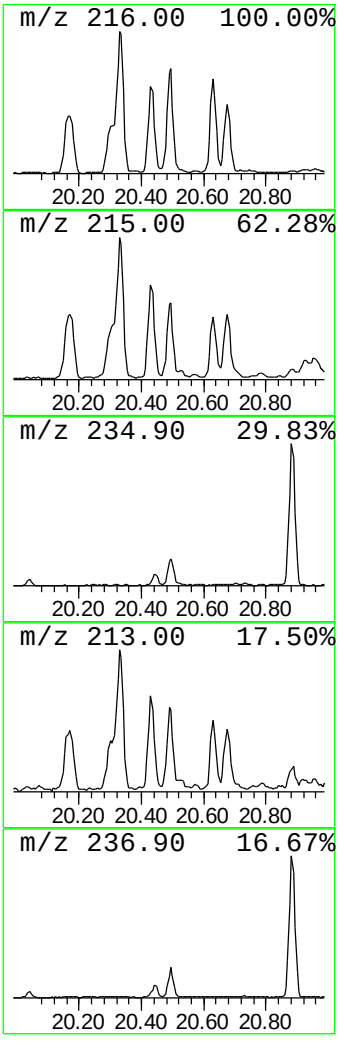
**********

Peak Number 25 Pyrene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.49 | 4.97 ng/ul | 318840 | Chrysene-d12 | 21.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 64 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 60 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 58 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 58 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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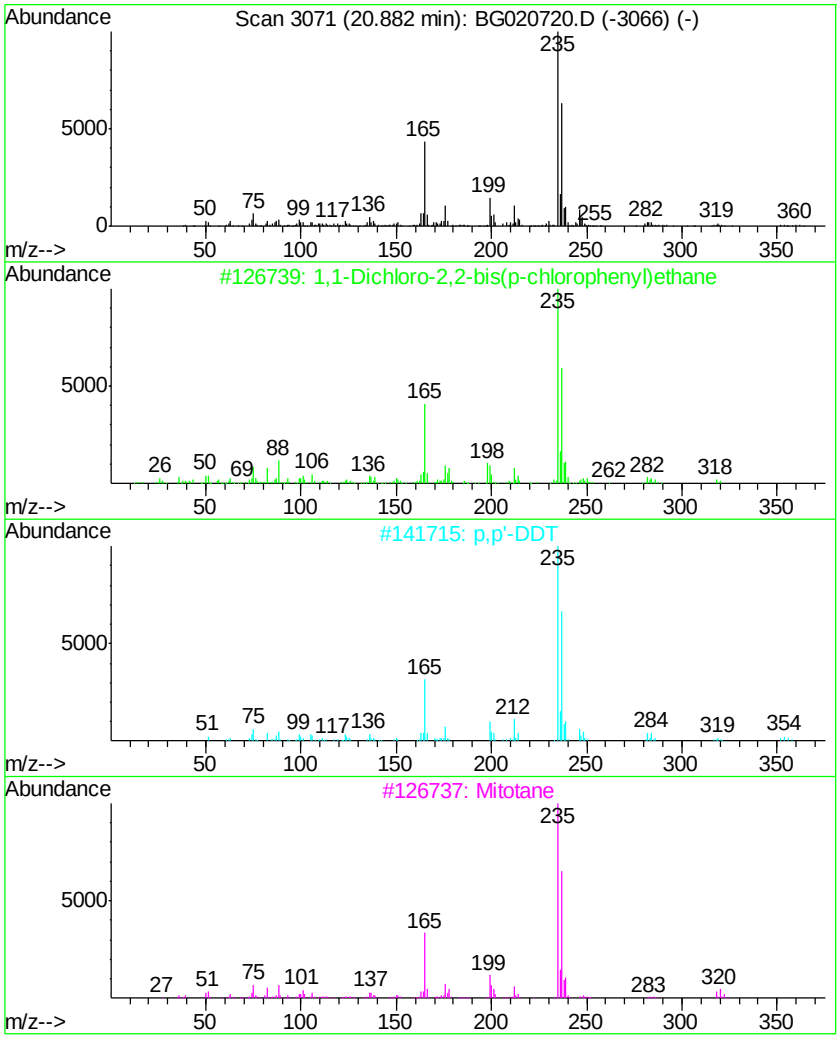
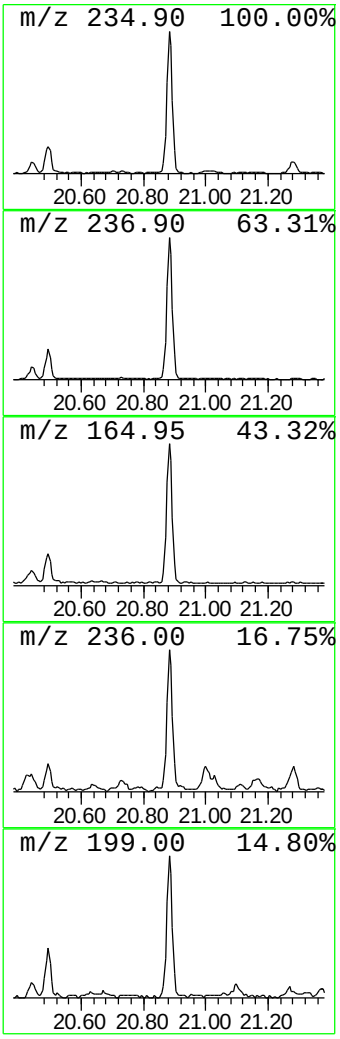
Peak Number 28 1,1-Dichloro-2,2-bis(p-chlo... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.88 | 7.85 ng/ul | 503657 | Chrysene-d12 | 21.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1-Dichloro-2,2-bis(p-chlorophe... | 318 | C14H10Cl4 | 000072-54-8 | 95 |
| 2 | p,p'-DDT | 352 | C14H9Cl5 | 000050-29-3 | 95 |
| 3 | Mitotane | 318 | C14H10Cl4 | 000053-19-0 | 95 |
| 4 | p,p'-DDT | 352 | C14H9Cl5 | 000050-29-3 | 94 |
| 5 | 3-Butanone, 1,1-bis(4-chlorophen... | 320 | C18H18Cl2O | 1000158-20-4 | 93 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

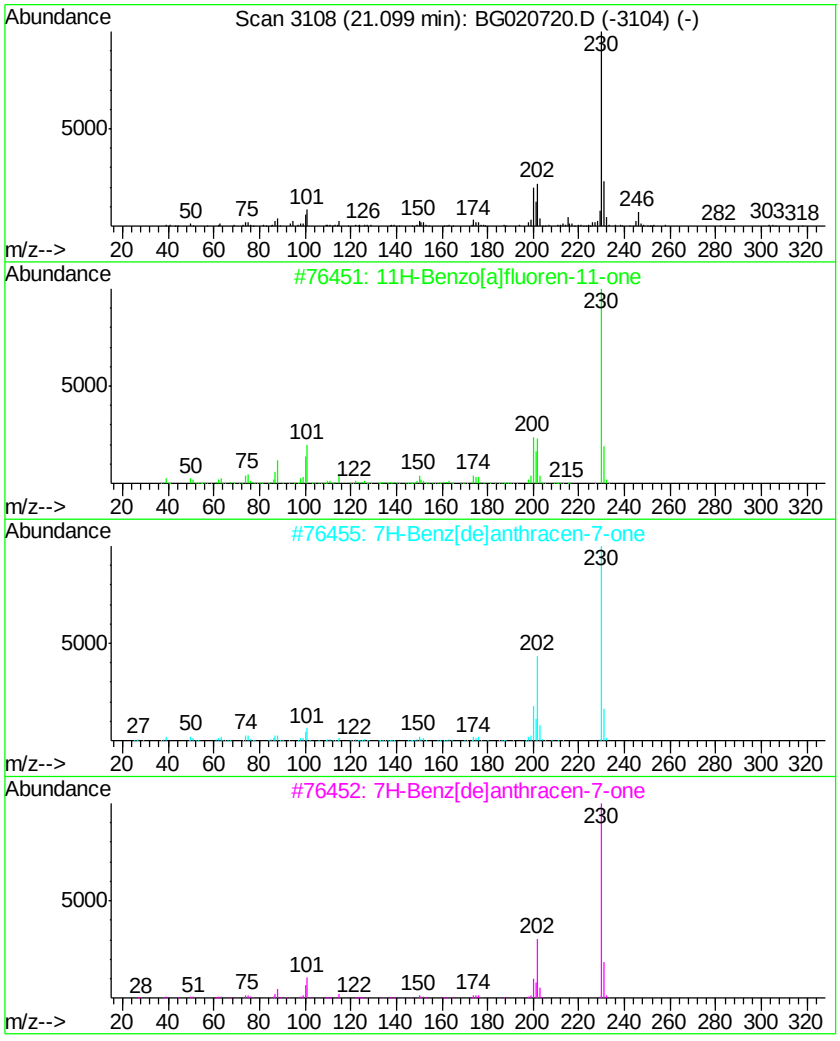
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

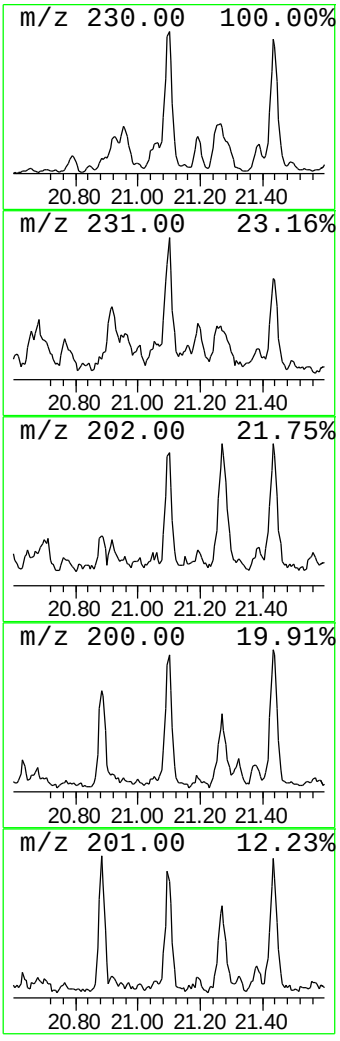
**********

Peak Number 29 11H-Benzo[a]fluoren-11-one Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.10 | 2.06 ng/ul | 132302 | Chrysene-d12 | 21.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 89 |
| 3 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 76 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 74 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 68 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011316\
Data File : BG020720.D
Acq On : 14 Jan 2016 4:10
Operator : SJ/IZ
Sample : H1096-04 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BC934

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.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 |
| 9H-Fluorene, 2-me... | 16.73 | 2.6 | ng/ul | 40033 | 4 | 17.43 | 311358 | 20.0 |
| 9H-Fluoren-9-one | 17.08 | 2.3 | ng/ul | 35231 | 4 | 17.43 | 311358 | 20.0 |
| Dibenzothiophene | 17.24 | 2.5 | ng/ul | 38904 | 4 | 17.43 | 311358 | 20.0 |
| Dibenzothiophene,... | 18.01 | 3.7 | ng/ul | 57184 | 4 | 17.43 | 311358 | 20.0 |
| Dibenzothiophene,... | 18.16 | 2.3 | ng/ul | 35915 | 4 | 17.43 | 311358 | 20.0 |
| Anthracene, 9-met... | 18.30 | 10.8 | ng/ul | 168426 | 4 | 17.43 | 311358 | 20.0 |
| Phenanthrene, 1-m... | 18.35 | 14.5 | ng/ul | 226350 | 4 | 17.43 | 311358 | 20.0 |
| Anthracene, 1-met... | 18.43 | 3.5 | ng/ul | 55043 | 4 | 17.43 | 311358 | 20.0 |
| Benzaldehyde, 3,5... | 18.50 | 17.5 | ng/ul | 272103 | 4 | 17.43 | 311358 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.53 | 7.0 | ng/ul | 108266 | 4 | 17.43 | 311358 | 20.0 |
| Tricyclo[8.2.2.2(... | 18.80 | 7.1 | ng/ul | 111124 | 4 | 17.43 | 311358 | 20.0 |
| 9,10-Anthracenedione | 18.85 | 11.9 | ng/ul | 185284 | 4 | 17.43 | 311358 | 20.0 |
| Phenanthrene, 2,3... | 19.04 | 5.8 | ng/ul | 90122 | 4 | 17.43 | 311358 | 20.0 |
| Phenanthrene, 3,6... | 19.09 | 4.0 | ng/ul | 63003 | 4 | 17.43 | 311358 | 20.0 |
| di-p-Tolylacetylene | 19.13 | 3.5 | ng/ul | 55151 | 4 | 17.43 | 311358 | 20.0 |
| Phenanthrene, 2,5... | 19.21 | 13.3 | ng/ul | 206651 | 4 | 17.43 | 311358 | 20.0 |
| Phenanthrene, 2,7... | 19.27 | 4.3 | ng/ul | 67694 | 4 | 17.43 | 311358 | 20.0 |
| Cyclopenta(def)ph... | 19.36 | 7.1 | ng/ul | 110318 | 4 | 17.43 | 311358 | 20.0 |
| unknown-01 | 19.54 | 3.0 | ng/ul | 47253 | 4 | 17.43 | 311358 | 20.0 |
| Benzo[kl]xanthene | 20.02 | 2.2 | ng/ul | 141363 | 5 | 21.70 | 1282660 | 20.0 |
| Pyrene, 1-methyl- | 20.17 | 4.2 | ng/ul | 268624 | 5 | 21.70 | 1282660 | 20.0 |
| 11H-Benzo[b]fluorene | 20.33 | 6.8 | ng/ul | 435082 | 5 | 21.70 | 1282660 | 20.0 |
| Pyrene, 2-methyl- | 20.49 | 5.0 | ng/ul | 318840 | 5 | 21.70 | 1282660 | 20.0 |
| 1,1-Dichloro-2,2-... | 20.88 | 7.8 | ng/ul | 503657 | 5 | 21.70 | 1282660 | 20.0 |
| 11H-Benzo[a]fluor... | 21.10 | 2.1 | ng/ul | 132302 | 5 | 21.70 | 1282660 | 20.0 |