LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.829 | 20 | 24 | 30 | rBV | 181524 | 224815 | 5.05% | 0.327% |
| 2 | 4.715 | 336 | 345 | 353 | rBV | 446675 | 656431 | 14.74% | 0.955% |
| 3 | 5.173 | 417 | 423 | 430 | rBV | 914559 | 1290312 | 28.97% | 1.878% |
| 4 | 6.753 | 680 | 692 | 704 | rBV | 924970 | 1471491 | 33.04% | 2.142% |
| 5 | 7.100 | 744 | 751 | 759 | rBV | 985506 | 1575533 | 35.37% | 2.293% |
| 6 | 7.564 | 821 | 830 | 838 | rBV | 377683 | 608235 | 13.66% | 0.885% |
| 7 | 7.881 | 877 | 884 | 891 | rVB | 751869 | 1185517 | 26.62% | 1.726% |
| 8 | 8.722 | 1020 | 1027 | 1036 | rVB | 565019 | 923297 | 20.73% | 1.344% |
| 9 | 10.349 | 1294 | 1304 | 1309 | rBV | 565845 | 981134 | 22.03% | 1.428% |
| 10 | 10.396 | 1309 | 1312 | 1318 | rVB | 112295 | 168837 | 3.79% | 0.246% |
| 11 | 11.389 | 1474 | 1481 | 1485 | rBV | 55137 | 89552 | 2.01% | 0.130% |
| 12 | 12.024 | 1581 | 1589 | 1597 | rVB | 81689 | 139078 | 3.12% | 0.202% |
| 13 | 12.247 | 1621 | 1627 | 1633 | rBV | 64033 | 105079 | 2.36% | 0.153% |
| 14 | 12.840 | 1719 | 1728 | 1737 | rBV | 1586089 | 2426493 | 54.48% | 3.532% |
| 15 | 13.058 | 1758 | 1765 | 1772 | rBV2 | 71823 | 109954 | 2.47% | 0.160% |
| 16 | 13.545 | 1843 | 1848 | 1852 | rVV2 | 73427 | 111482 | 2.50% | 0.162% |
| 17 | 13.692 | 1868 | 1873 | 1877 | rBV | 291549 | 420746 | 9.45% | 0.612% |
| 18 | 13.951 | 1908 | 1917 | 1926 | rBV2 | 39568 | 84295 | 1.89% | 0.123% |
| 19 | 14.145 | 1943 | 1950 | 1954 | rBV2 | 66028 | 92073 | 2.07% | 0.134% |
| 20 | 14.233 | 1954 | 1965 | 1970 | rBV2 | 846839 | 1363398 | 30.61% | 1.985% |
| 21 | 14.292 | 1970 | 1975 | 1983 | rVB | 228536 | 360762 | 8.10% | 0.525% |
| 22 | 14.632 | 2028 | 2033 | 2040 | rVB | 153450 | 246833 | 5.54% | 0.359% |
| 23 | 14.773 | 2052 | 2057 | 2064 | rVB3 | 54068 | 97031 | 2.18% | 0.141% |
| 24 | 14.856 | 2064 | 2071 | 2076 | rBV2 | 58877 | 117107 | 2.63% | 0.170% |
| 25 | 15.020 | 2093 | 2099 | 2103 | rBV2 | 63728 | 118691 | 2.66% | 0.173% |
| 26 | 15.102 | 2110 | 2113 | 2117 | rVB | 89623 | 100553 | 2.26% | 0.146% |
| 27 | 15.279 | 2137 | 2143 | 2148 | rBV3 | 205088 | 312943 | 7.03% | 0.456% |
| 28 | 15.508 | 2176 | 2182 | 2189 | rVV3 | 65435 | 161397 | 3.62% | 0.235% |
| 29 | 15.578 | 2189 | 2194 | 2204 | rVB | 86191 | 161447 | 3.62% | 0.235% |
| 30 | 15.725 | 2212 | 2219 | 2227 | rVV | 1285360 | 1964156 | 44.10% | 2.859% |
| 31 | 15.813 | 2227 | 2234 | 2243 | rVB4 | 42933 | 105228 | 2.36% | 0.153% |
| 32 | 15.966 | 2255 | 2260 | 2262 | rBV2 | 187072 | 251573 | 5.65% | 0.366% |
| 33 | 16.289 | 2305 | 2315 | 2320 | rBV7 | 54589 | 180074 | 4.04% | 0.262% |
| 34 | 16.636 | 2370 | 2374 | 2381 | rVV3 | 106385 | 178097 | 4.00% | 0.259% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.718 | 2383 | 2388 | 2392 | rVV3 | 63958 | 151211 | 3.39% | 0.220% |
| 36 | 16.759 | 2392 | 2395 | 2399 | rVV | 161228 | 215356 | 4.84% | 0.313% |
| 37 | 16.806 | 2399 | 2403 | 2412 | rVB2 | 126659 | 246574 | 5.54% | 0.359% |
| 38 | 16.983 | 2428 | 2433 | 2437 | rBV2 | 940544 | 1469235 | 32.99% | 2.139% |
| 39 | 17.030 | 2437 | 2441 | 2446 | rVV | 1851565 | 2596496 | 58.30% | 3.779% |
| 40 | 17.112 | 2451 | 2455 | 2461 | rVB | 445805 | 652461 | 14.65% | 0.950% |
| 41 | 17.176 | 2461 | 2466 | 2471 | rBV3 | 83270 | 141380 | 3.17% | 0.206% |
| 42 | 17.388 | 2499 | 2502 | 2506 | rVV | 143485 | 175121 | 3.93% | 0.255% |
| 43 | 17.500 | 2517 | 2521 | 2526 | rVB2 | 155749 | 190119 | 4.27% | 0.277% |
| 44 | 17.858 | 2576 | 2582 | 2586 | rVV | 254297 | 455783 | 10.23% | 0.663% |
| 45 | 17.905 | 2586 | 2590 | 2598 | rVV2 | 581280 | 897231 | 20.14% | 1.306% |
| 46 | 17.987 | 2599 | 2604 | 2609 | rVV | 144599 | 260282 | 5.84% | 0.379% |
| 47 | 18.052 | 2610 | 2615 | 2620 | rVV2 | 415699 | 823574 | 18.49% | 1.199% |
| 48 | 18.093 | 2620 | 2622 | 2628 | rVB2 | 203111 | 234783 | 5.27% | 0.342% |
| 49 | 18.199 | 2636 | 2640 | 2646 | rVB2 | 127696 | 195970 | 4.40% | 0.285% |
| 50 | 18.369 | 2665 | 2669 | 2673 | rVV | 229289 | 317871 | 7.14% | 0.463% |
| 51 | 18.410 | 2673 | 2676 | 2681 | rVB3 | 149146 | 198851 | 4.46% | 0.289% |
| 52 | 18.616 | 2708 | 2711 | 2716 | rVB2 | 117716 | 155231 | 3.49% | 0.226% |
| 53 | 18.669 | 2716 | 2720 | 2723 | rVV | 103746 | 136086 | 3.06% | 0.198% |
| 54 | 18.710 | 2723 | 2727 | 2731 | rVB | 93437 | 130320 | 2.93% | 0.190% |
| 55 | 18.792 | 2736 | 2741 | 2745 | rVV | 250712 | 408296 | 9.17% | 0.594% |
| 56 | 18.839 | 2745 | 2749 | 2754 | rVV3 | 204764 | 363544 | 8.16% | 0.529% |
| 57 | 18.886 | 2754 | 2757 | 2761 | rVV | 104920 | 125805 | 2.82% | 0.183% |
| 58 | 18.933 | 2761 | 2765 | 2774 | rVB2 | 160155 | 282835 | 6.35% | 0.412% |
| 59 | 19.062 | 2780 | 2787 | 2794 | rBV | 2815778 | 4003728 | 89.89% | 5.828% |
| 60 | 19.127 | 2794 | 2798 | 2800 | rVV | 84845 | 117283 | 2.63% | 0.171% |
| 61 | 19.156 | 2800 | 2803 | 2806 | rVV3 | 91207 | 131247 | 2.95% | 0.191% |
| 62 | 19.192 | 2807 | 2809 | 2815 | rVV4 | 83592 | 145269 | 3.26% | 0.211% |
| 63 | 19.256 | 2816 | 2820 | 2823 | rVV4 | 67222 | 135528 | 3.04% | 0.197% |
| 64 | 19.297 | 2825 | 2827 | 2830 | rVV | 112696 | 151881 | 3.41% | 0.221% |
| 65 | 19.333 | 2830 | 2833 | 2838 | rVV3 | 90003 | 154741 | 3.47% | 0.225% |
| 66 | 19.421 | 2839 | 2848 | 2857 | rVV2 | 2454012 | 4453965 | 100.00% | 6.483% |
| 67 | 19.497 | 2857 | 2861 | 2867 | rVB3 | 215479 | 364727 | 8.19% | 0.531% |
| 68 | 19.597 | 2874 | 2878 | 2880 | rBV2 | 134797 | 193814 | 4.35% | 0.282% |
| 69 | 19.632 | 2880 | 2884 | 2895 | rVB | 2479968 | 3508388 | 78.77% | 5.107% |
| 70 | 19.750 | 2898 | 2904 | 2910 | rBV4 | 211519 | 516536 | 11.60% | 0.752% |
| 71 | 19.879 | 2922 | 2926 | 2929 | rVV5 | 135229 | 249059 | 5.59% | 0.363% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 19.920 | 2929 | 2933 | 2937 | rVB | 360844 | 519835 | 11.67% | 0.757% |
| 73 | 19.956 | 2937 | 2939 | 2943 | rBV3 | 97509 | 111024 | 2.49% | 0.162% |
| 74 | 20.020 | 2946 | 2950 | 2954 | rBV | 259515 | 326528 | 7.33% | 0.475% |
| 75 | 20.073 | 2954 | 2959 | 2964 | rVV2 | 244770 | 425516 | 9.55% | 0.619% |
| 76 | 20.214 | 2980 | 2983 | 2987 | rBV | 133357 | 167737 | 3.77% | 0.244% |
| 77 | 20.261 | 2987 | 2991 | 2996 | rVB2 | 147507 | 220061 | 4.94% | 0.320% |
| 78 | 20.384 | 3008 | 3012 | 3016 | rVB2 | 113212 | 158790 | 3.57% | 0.231% |
| 79 | 20.631 | 3051 | 3054 | 3057 | rBV5 | 59724 | 94915 | 2.13% | 0.138% |
| 80 | 20.666 | 3057 | 3060 | 3066 | rVB | 258881 | 389315 | 8.74% | 0.567% |
| 81 | 20.831 | 3083 | 3088 | 3092 | rBV3 | 209007 | 360057 | 8.08% | 0.524% |
| 82 | 20.872 | 3092 | 3095 | 3098 | rVV | 248297 | 313132 | 7.03% | 0.456% |
| 83 | 20.913 | 3098 | 3102 | 3107 | rVV3 | 462710 | 735584 | 16.52% | 1.071% |
| 84 | 20.966 | 3107 | 3111 | 3122 | rVB2 | 262022 | 456801 | 10.26% | 0.665% |
| 85 | 21.183 | 3142 | 3148 | 3152 | rBV3 | 1992139 | 3992684 | 89.64% | 5.812% |
| 86 | 21.225 | 3152 | 3155 | 3165 | rVB | 1399317 | 2000129 | 44.91% | 2.911% |
| 87 | 21.342 | 3171 | 3175 | 3181 | rBV2 | 321873 | 466814 | 10.48% | 0.679% |
| 88 | 21.501 | 3197 | 3202 | 3207 | rBV2 | 192145 | 356386 | 8.00% | 0.519% |
| 89 | 21.730 | 3238 | 3241 | 3246 | rVB | 294670 | 387192 | 8.69% | 0.564% |
| 90 | 21.783 | 3247 | 3250 | 3256 | rVB | 233798 | 292527 | 6.57% | 0.426% |
| 91 | 21.930 | 3271 | 3275 | 3278 | rBV | 185486 | 246941 | 5.54% | 0.359% |
| 92 | 22.241 | 3324 | 3328 | 3337 | rVB5 | 225302 | 425237 | 9.55% | 0.619% |
| 93 | 22.746 | 3407 | 3414 | 3419 | rBV | 1342504 | 3160082 | 70.95% | 4.600% |
| 94 | 22.911 | 3437 | 3442 | 3448 | rBV | 305445 | 481909 | 10.82% | 0.701% |
| 95 | 23.216 | 3489 | 3494 | 3503 | rVB | 790979 | 1568716 | 35.22% | 2.283% |
| 96 | 23.316 | 3504 | 3511 | 3517 | rVB | 1183685 | 2196889 | 49.32% | 3.198% |
| 97 | 23.410 | 3521 | 3527 | 3532 | rVV2 | 858771 | 1773818 | 39.83% | 2.582% |
| 98 | 23.457 | 3532 | 3535 | 3543 | rVB2 | 390688 | 691907 | 15.53% | 1.007% |
| 99 | 25.661 | 3902 | 3910 | 3922 | rVB2 | 567337 | 1735432 | 38.96% | 2.526% |
| 100 | 26.348 | 4019 | 4027 | 4039 | rVB | 420241 | 1310475 | 29.42% | 1.908% |

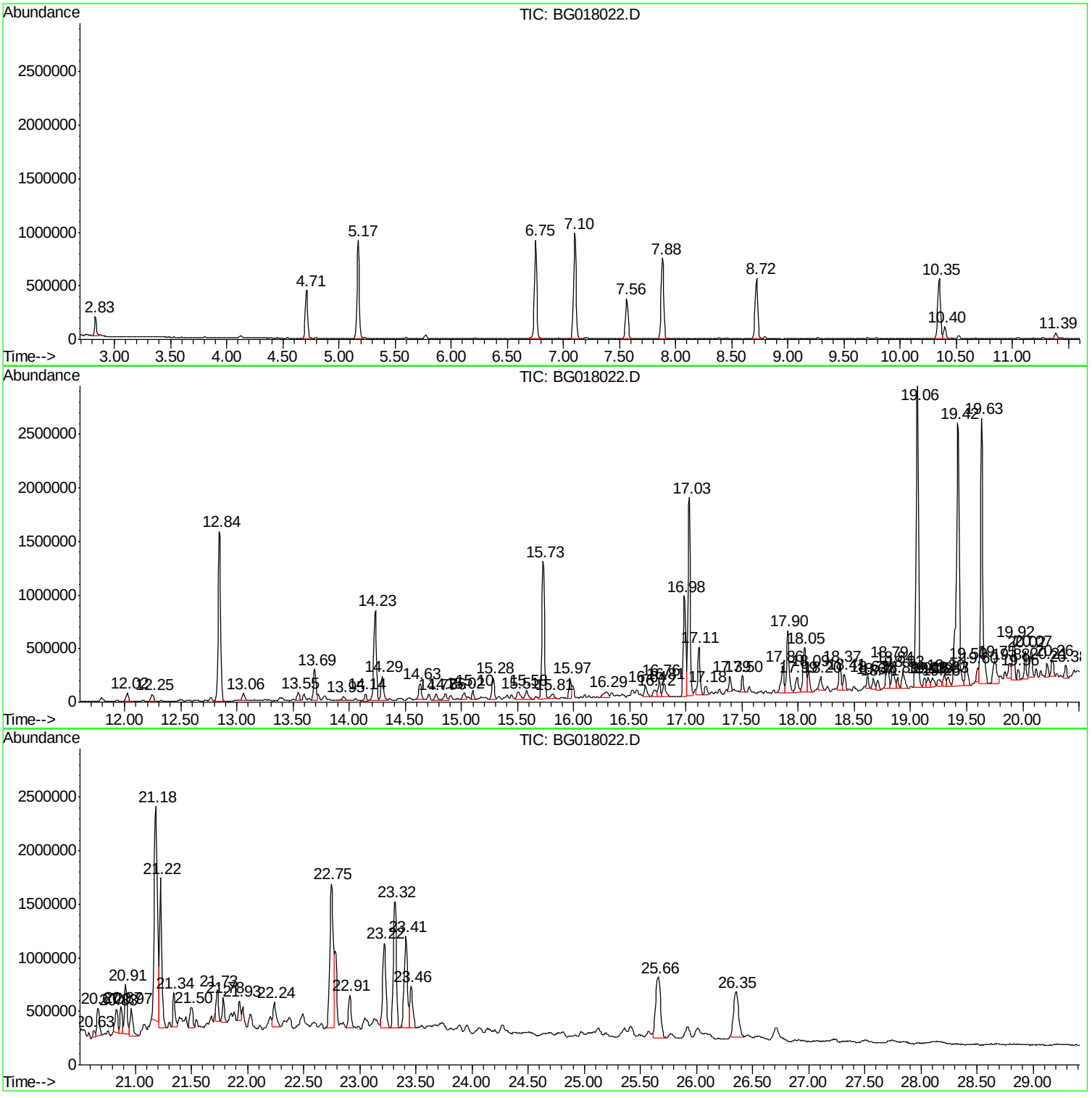
Sum of corrected areas: 68700658

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

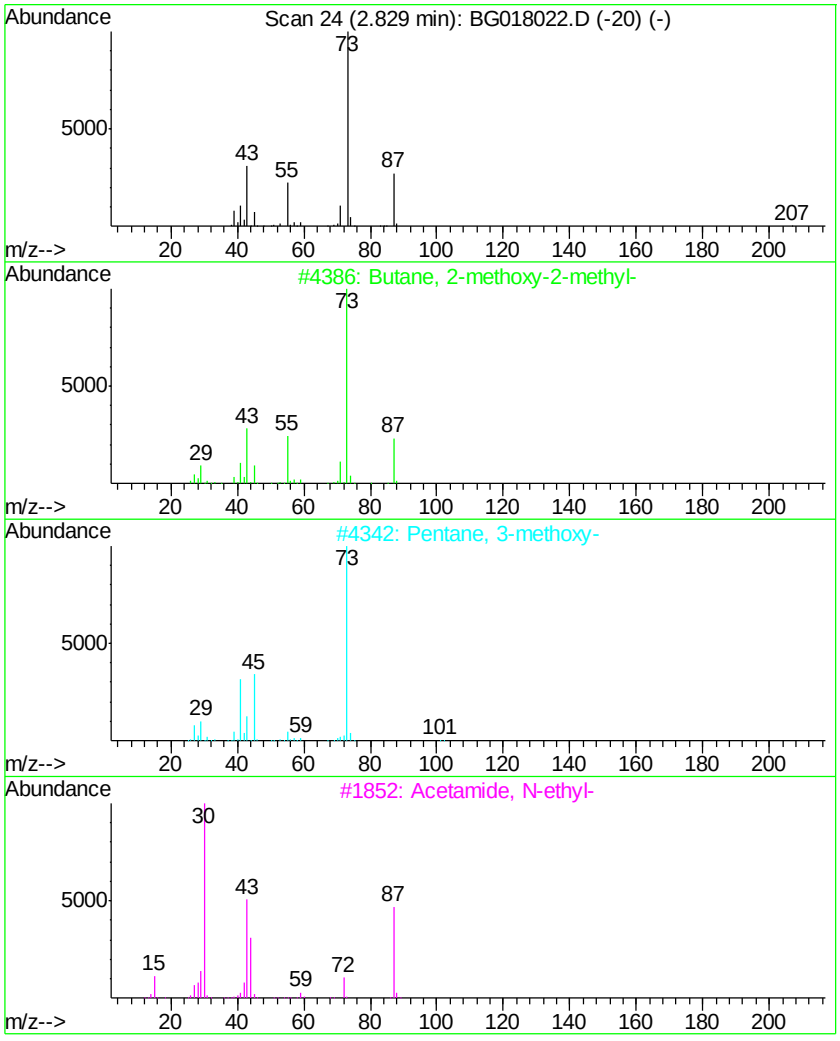
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

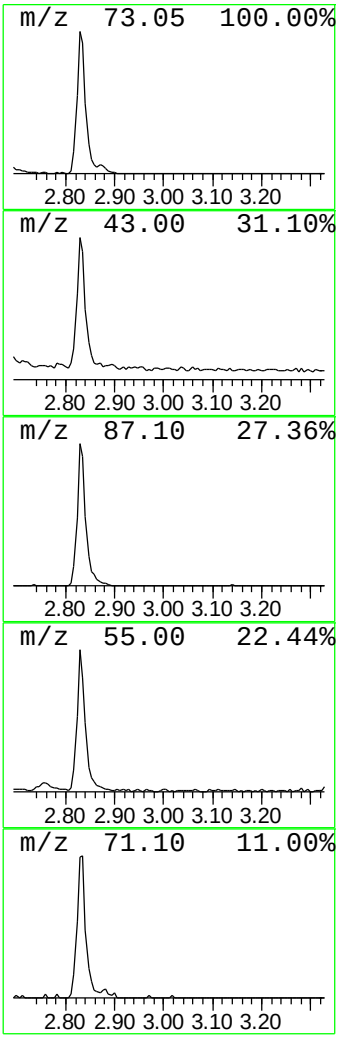
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.83 | 7.39 ng | 224815 | 1,4-Dichlorobenzene-d4 | 7.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 86 |
| 2 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 3 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

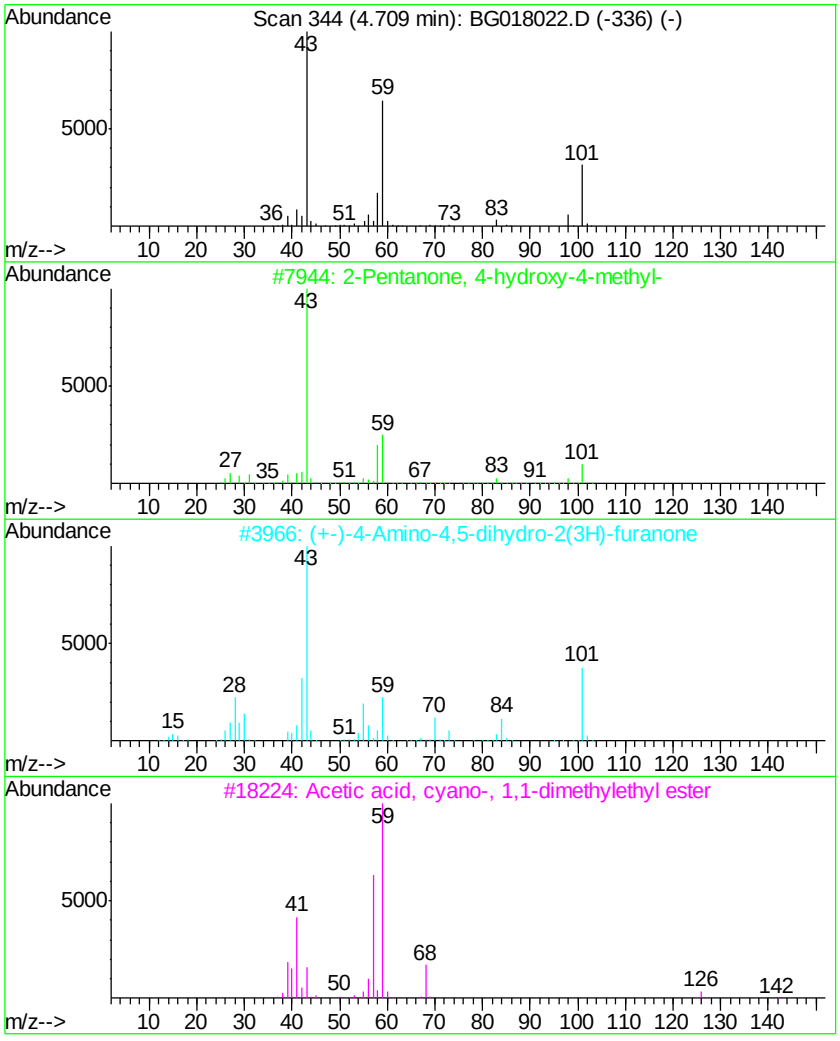
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

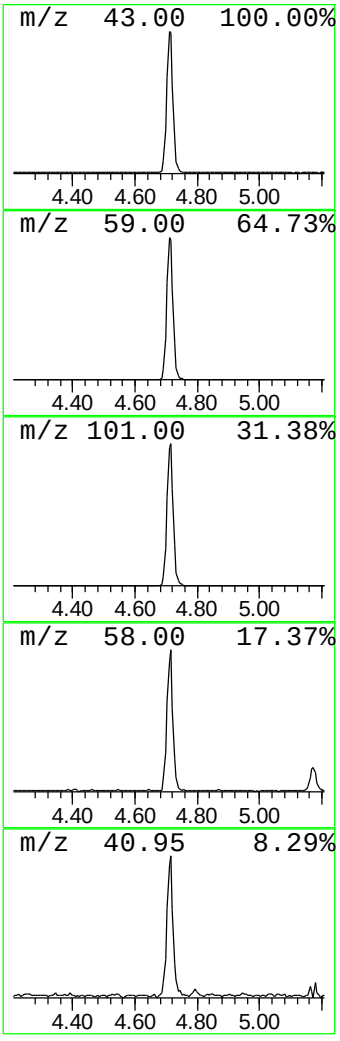
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.71 | 21.58 ng | 656431 | 1,4-Dichlorobenzene-d4 | 7.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 38 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

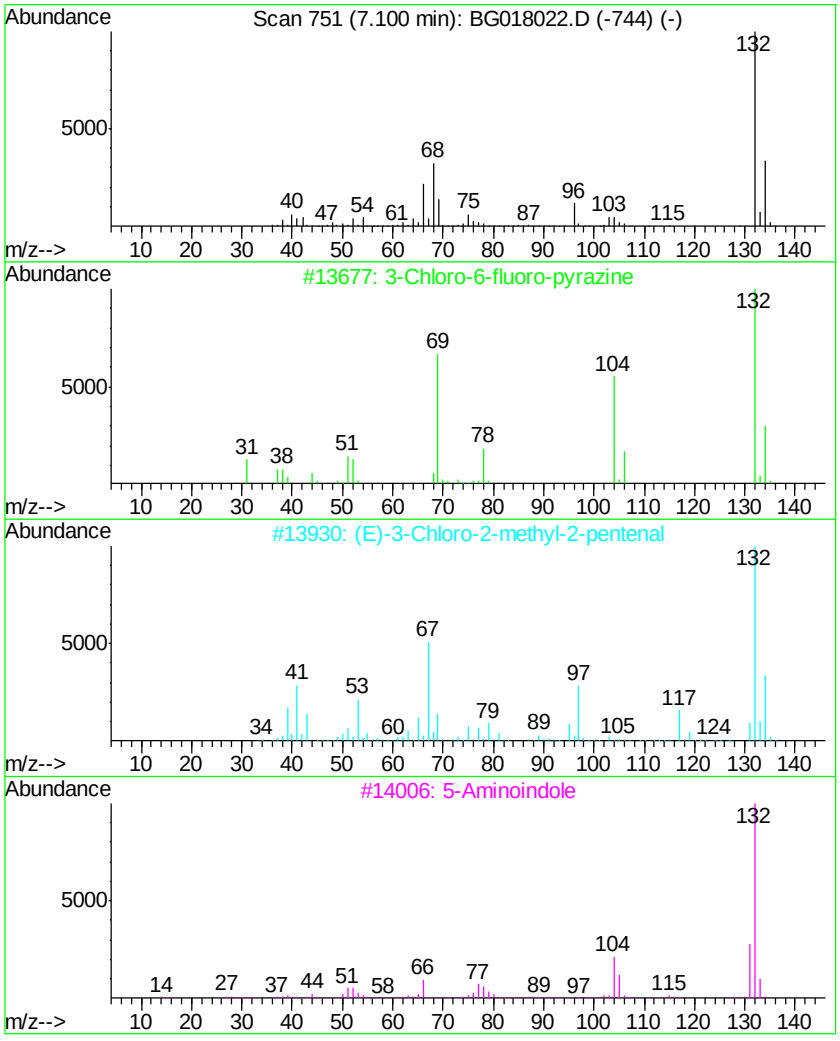
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

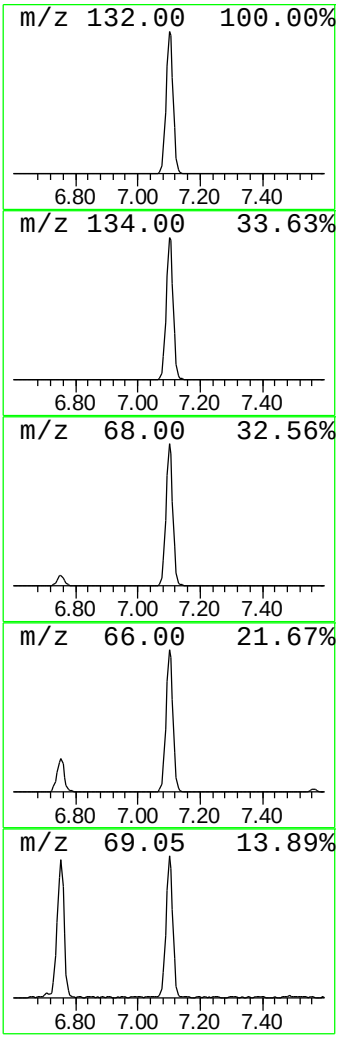
**********

Peak Number 3 unknown7.10 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.10 | 51.81 ng | 1575530 | 1,4-Dichlorobenzene-d4 | 7.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

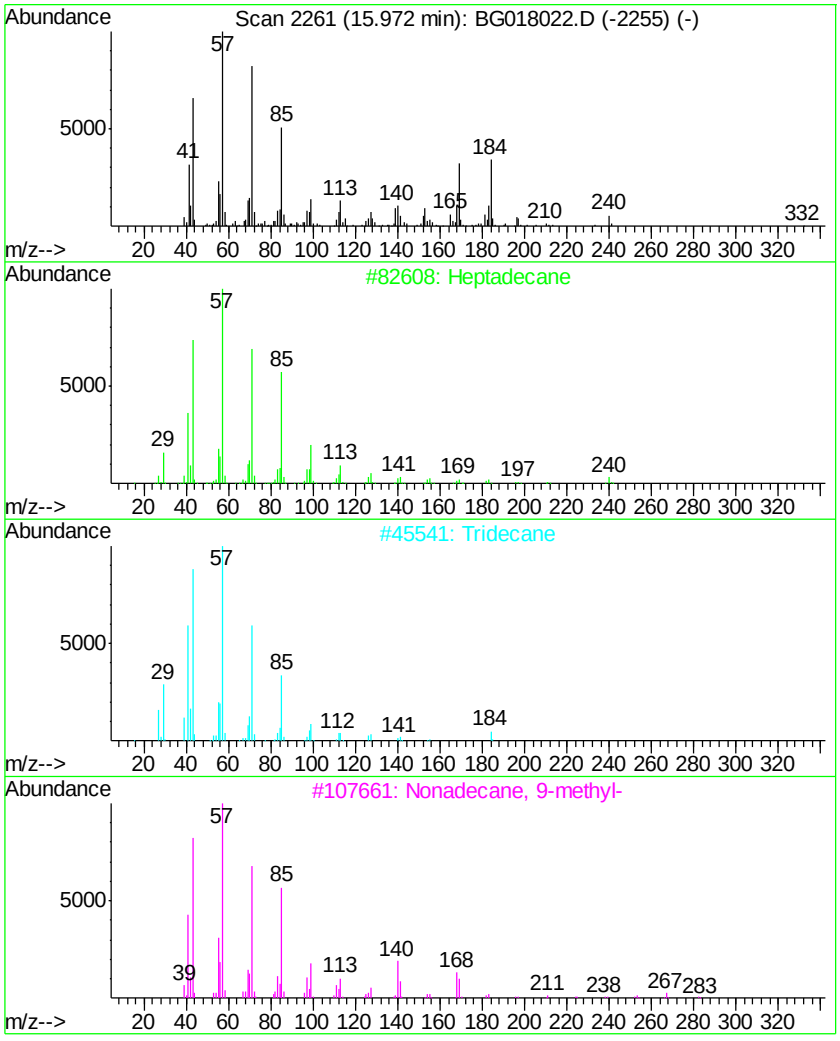
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

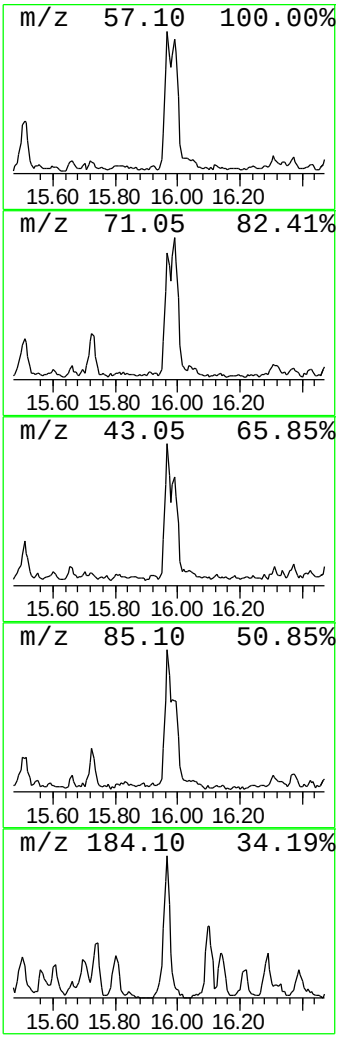
**********

Peak Number 5 Heptadecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.97 | 3.42 ng | 251573 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 96 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 64 |
| 3 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 53 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 46 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 46 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

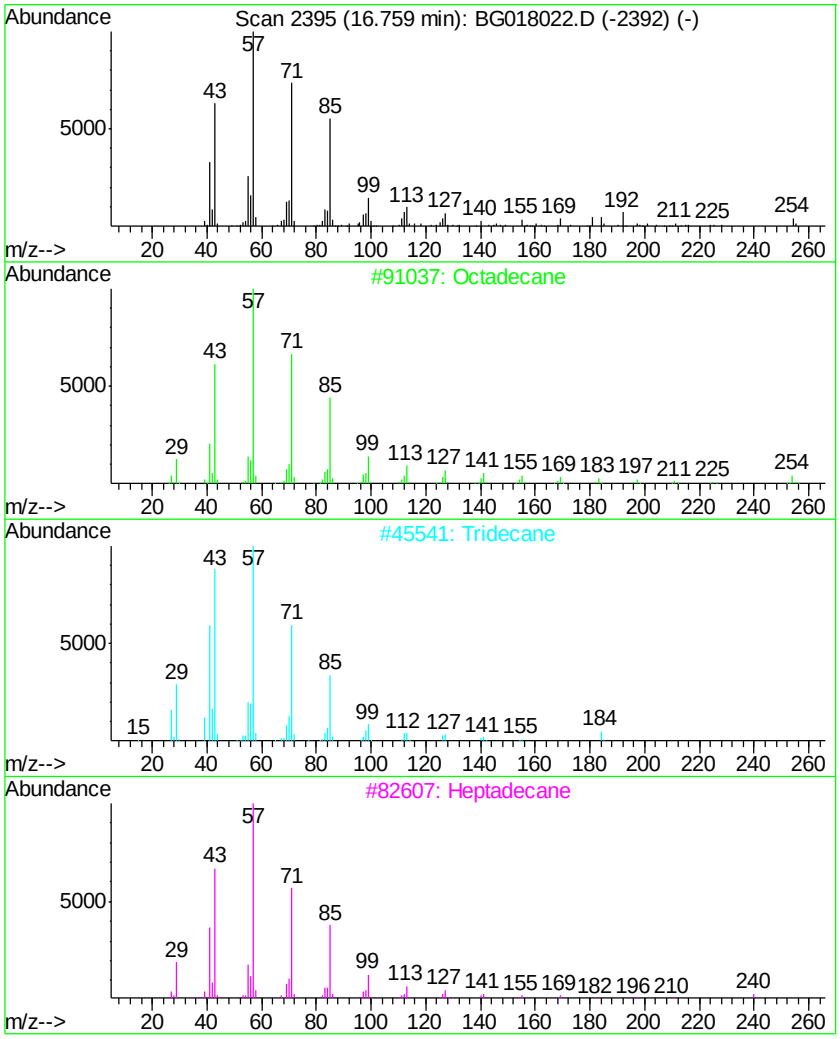
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

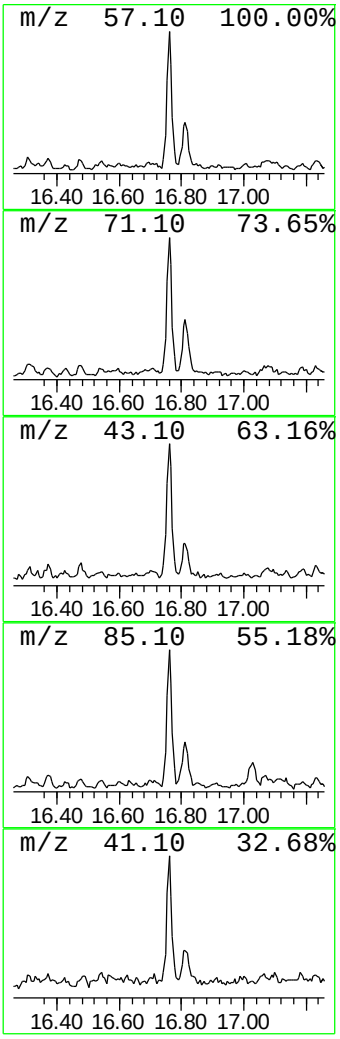
**********

Peak Number 6 Octadecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.76 | 2.93 ng | 215356 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 96 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 94 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 87 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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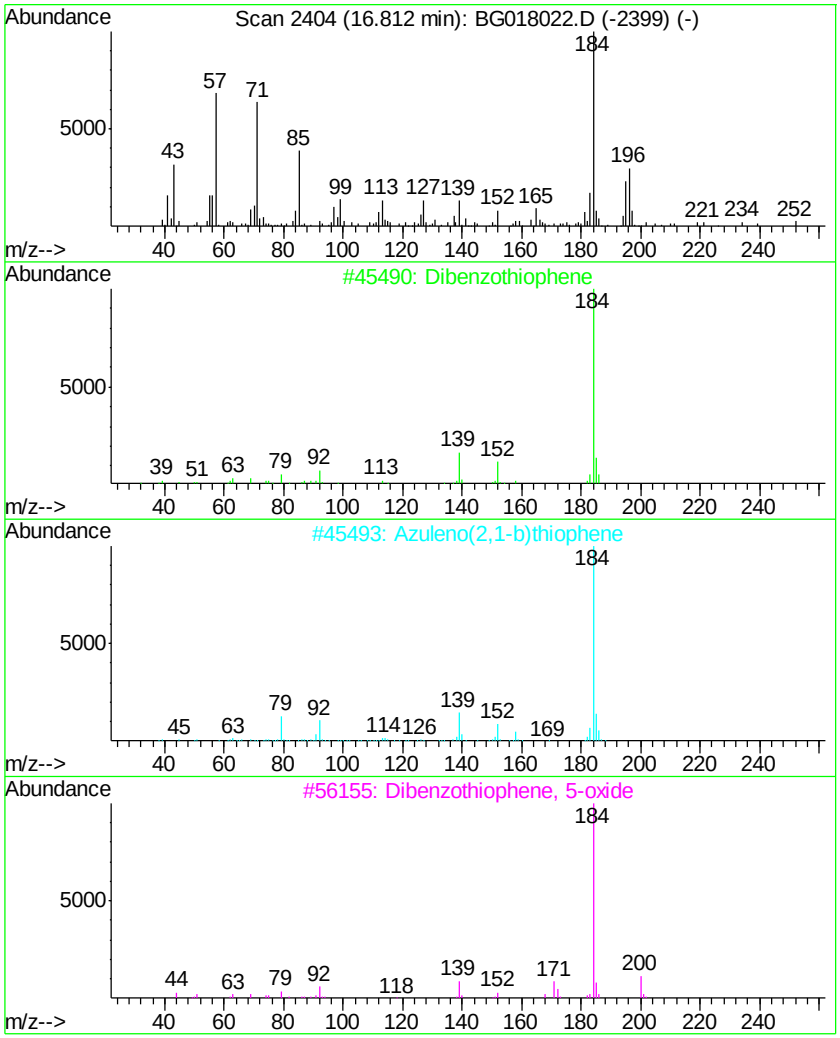
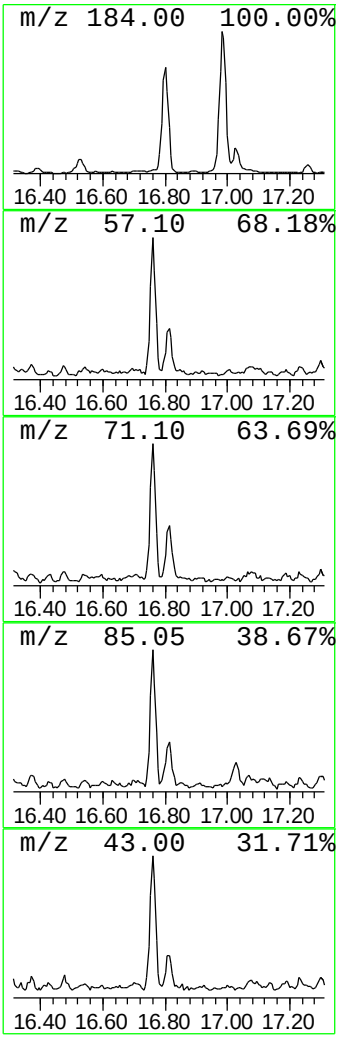
Peak Number 7 Dibenzothiophene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.81 | 3.36 ng | 246574 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 62 |
| 2 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 58 |
| 3 | Dibenzothiophene, 5-oxide | 200 | C12H8OS | 001013-23-6 | 53 |
| 4 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 52 |
| 5 | 1,1'-Biphenyl, 2-methoxy- | 184 | C13H12O | 000086-26-0 | 49 |



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Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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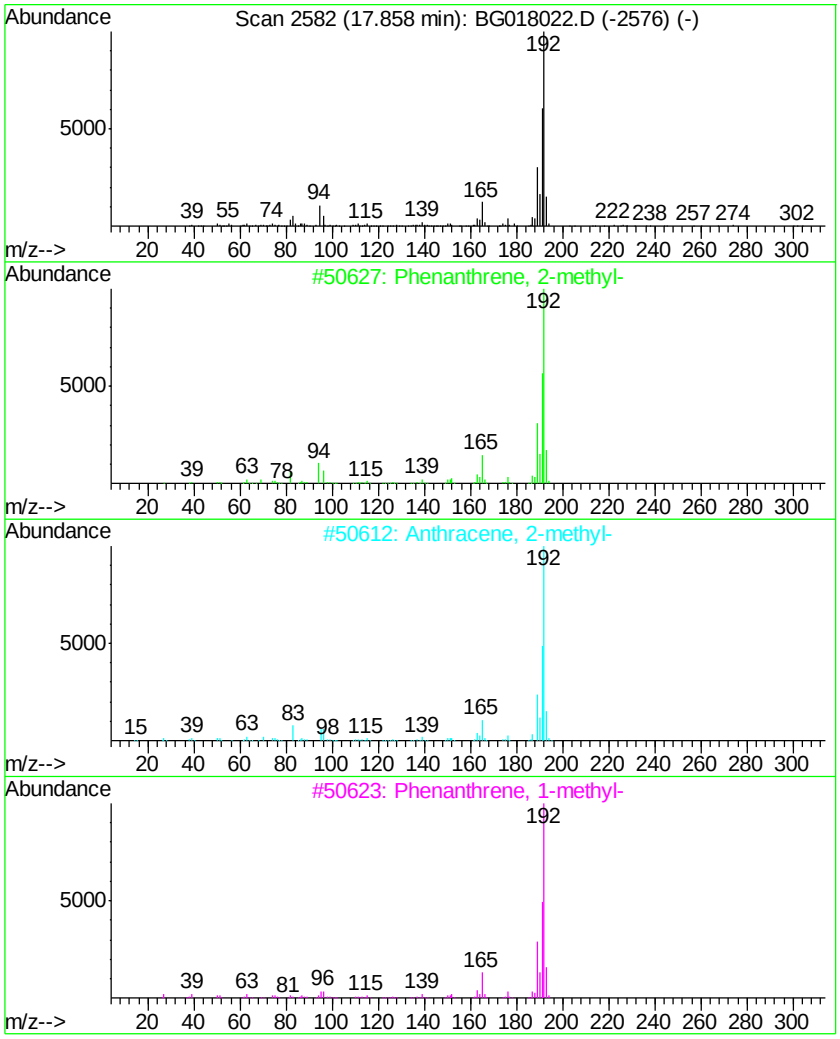
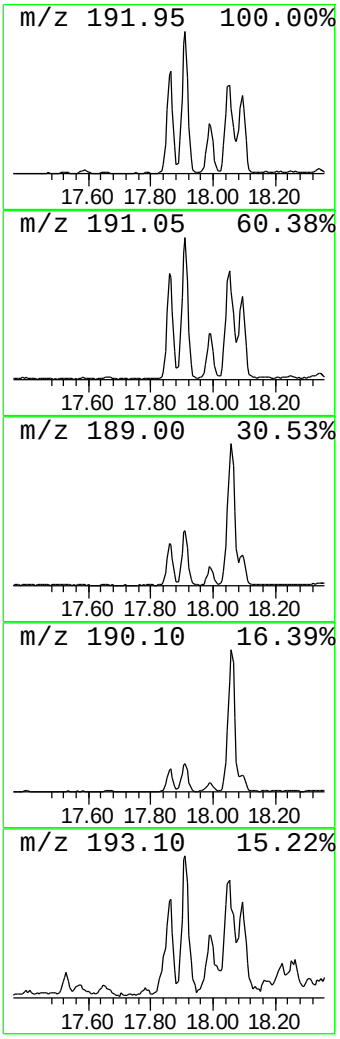
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.86 | 6.20 ng | 455783 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 92 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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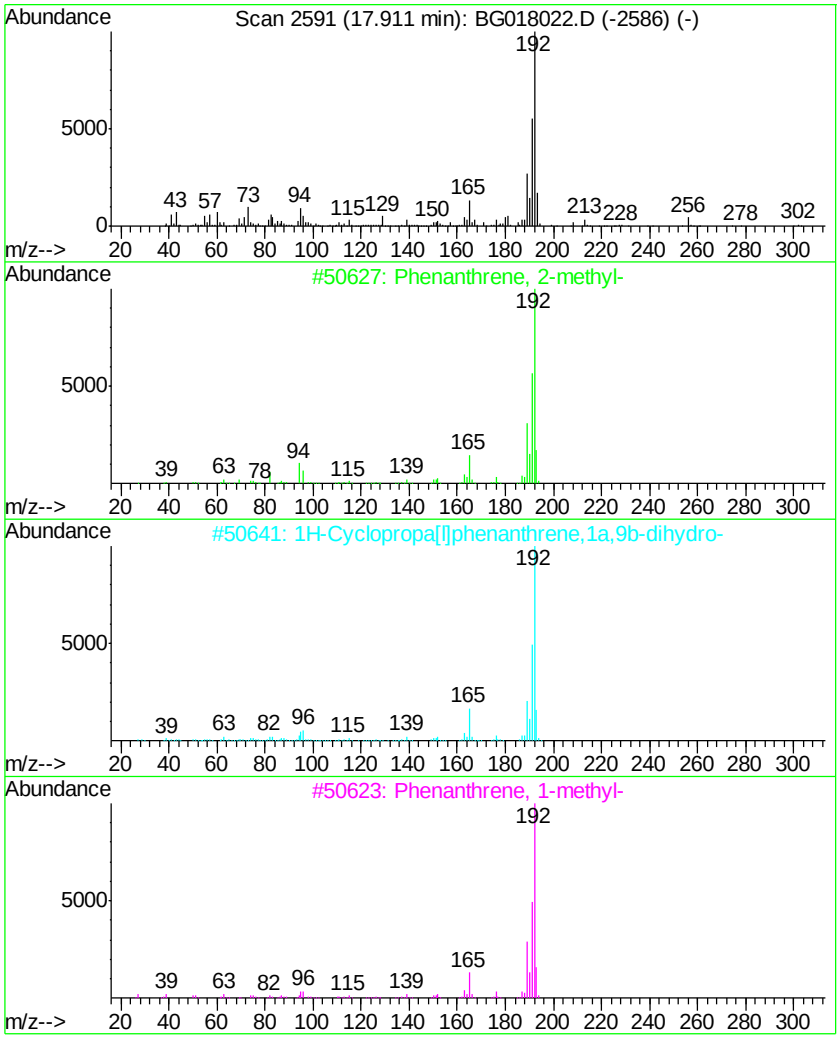
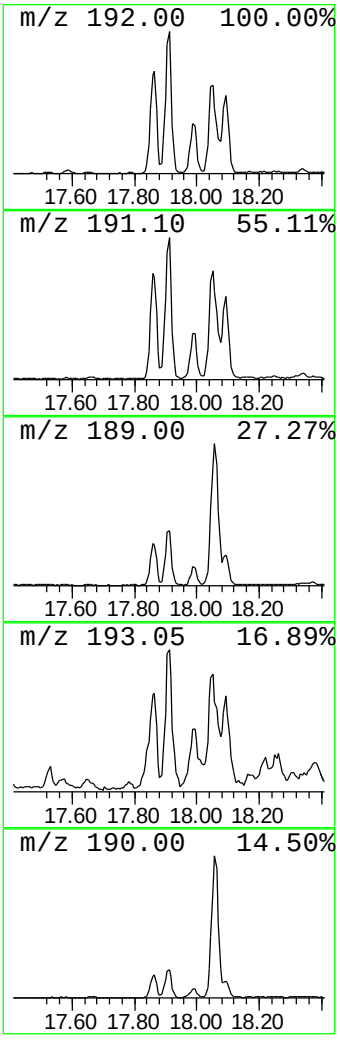
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.91 | 12.21 ng | 897231 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 97 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |



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Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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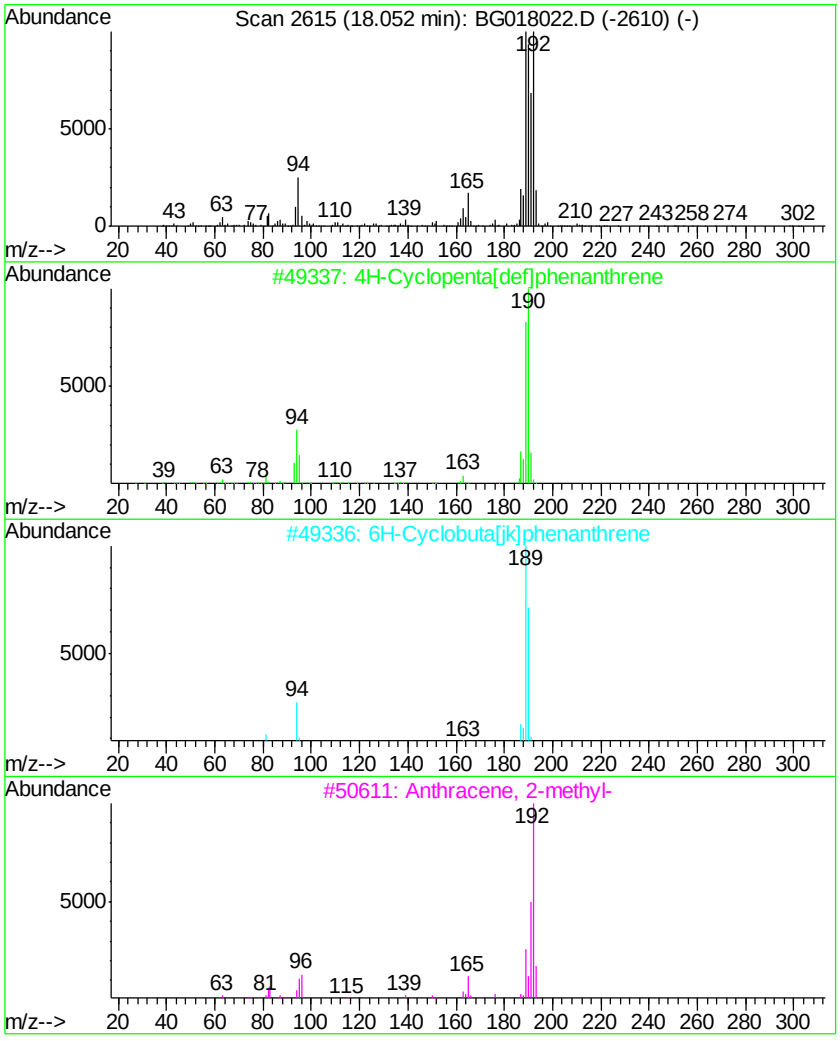
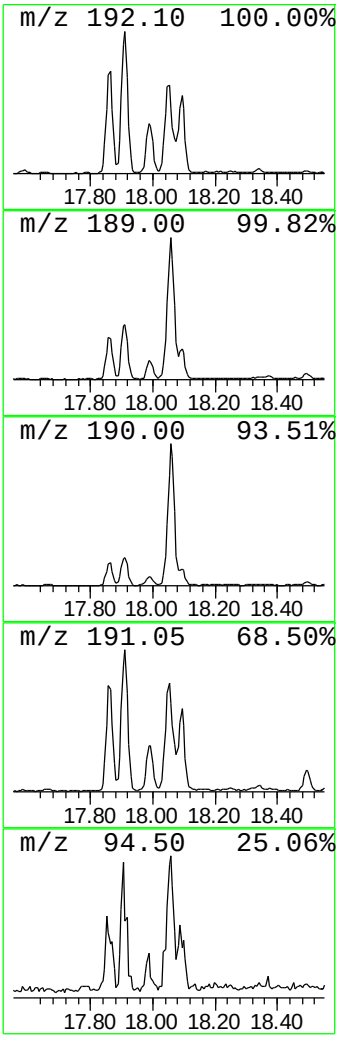
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.05 | 11.21 ng | 823574 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 46 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 42 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 42 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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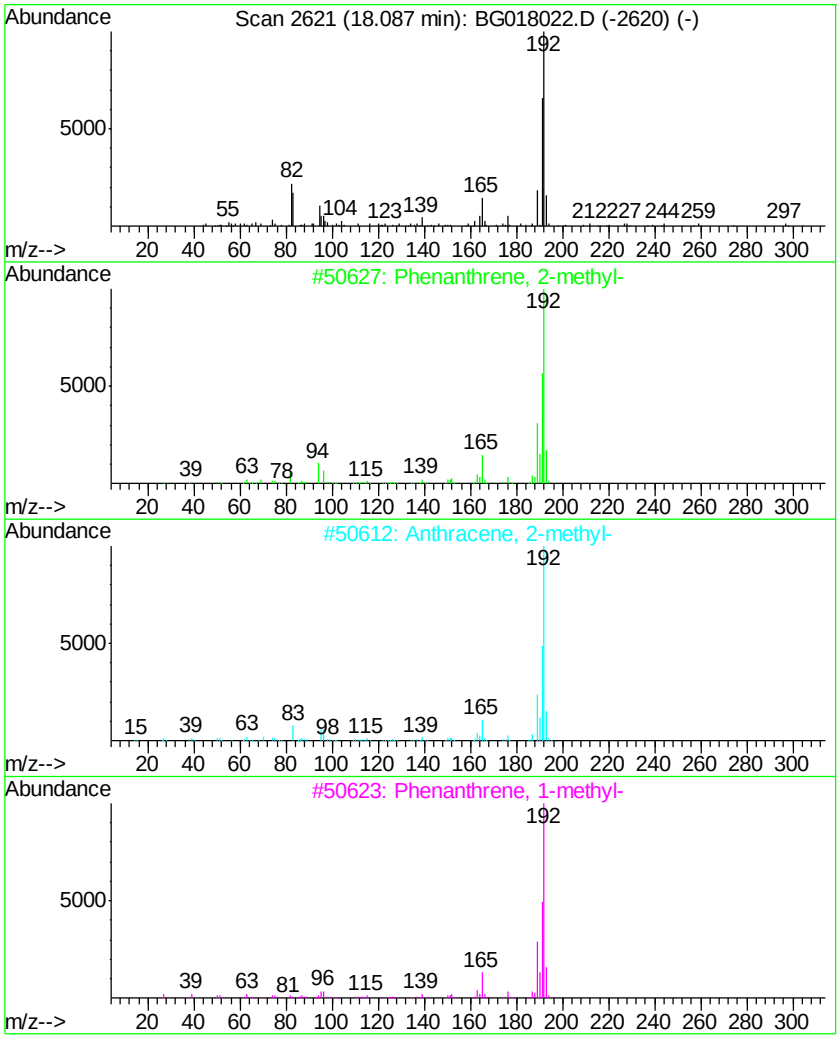
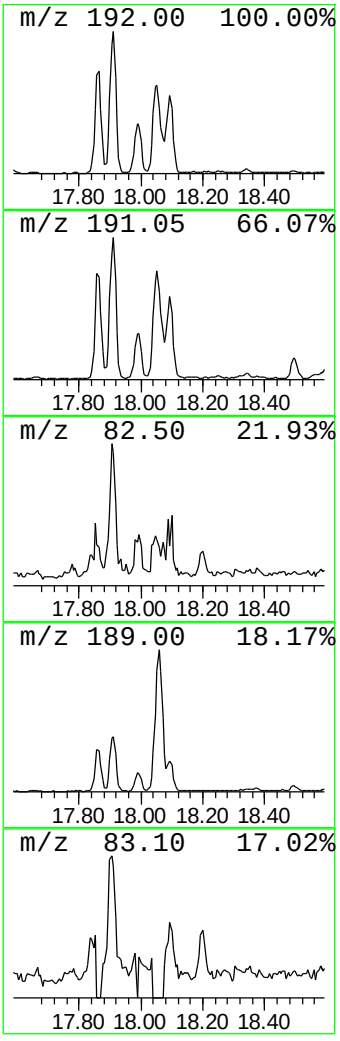
Peak Number 12 Anthracene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.09 | 3.20 ng | 234783 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 90 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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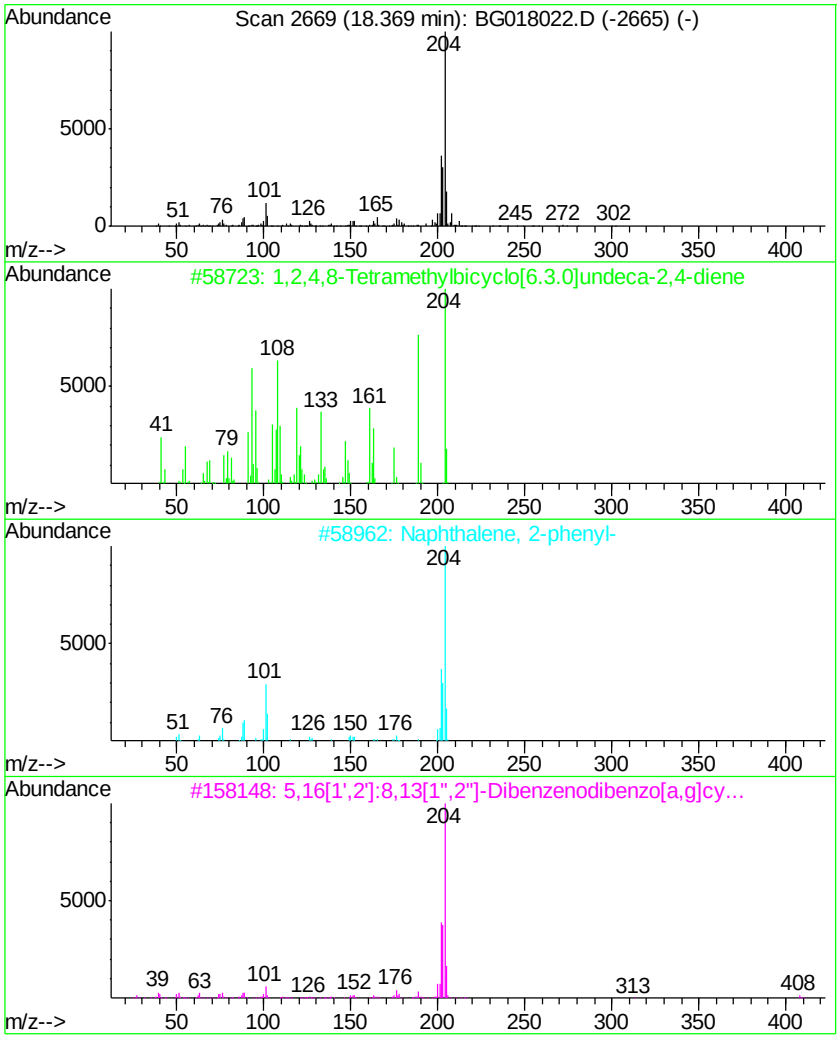
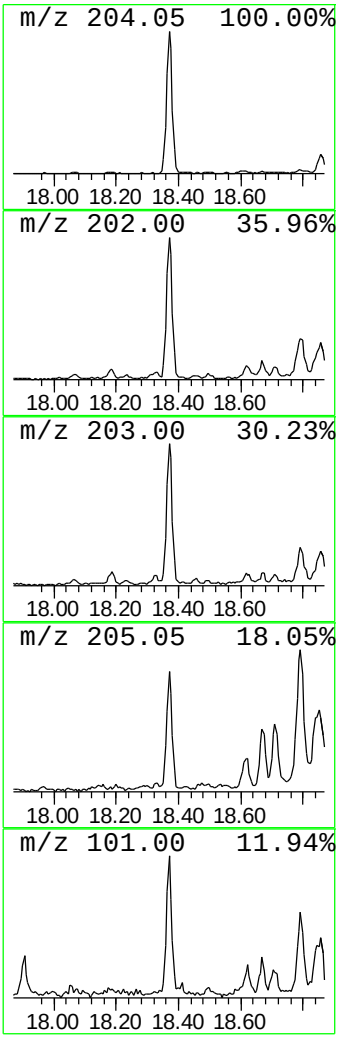
Peak Number 13 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.37 | 4.33 ng | 317871 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 95 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 3 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 4 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 81 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 74 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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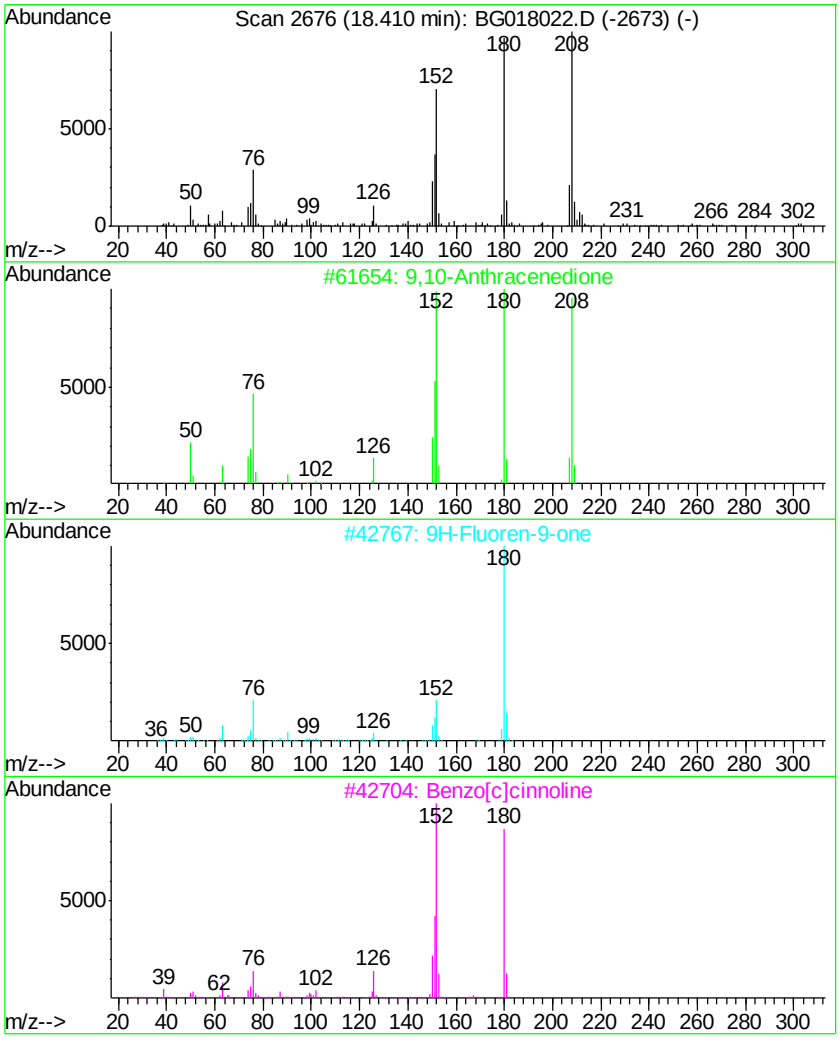
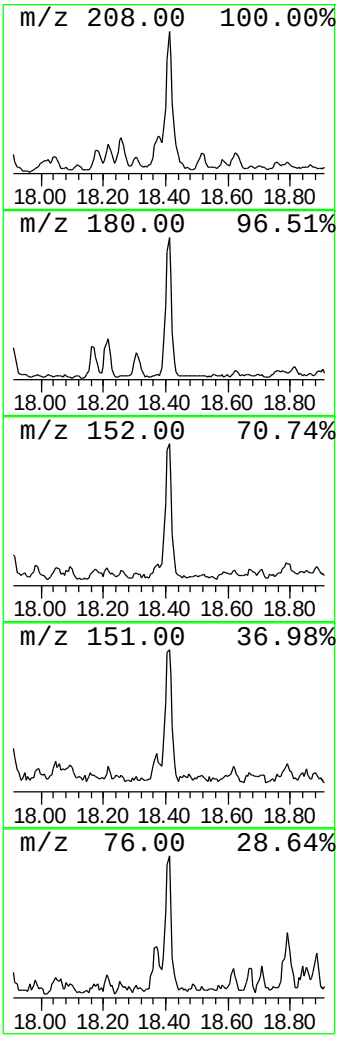
Peak Number 14 9,10-Anthracenedione Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.41 | 2.71 ng | 198851 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 78 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 60 |
| 4 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 55 |
| 5 | 5,6-Dimethyl-1,10-phenanthroline | 208 | C14H12N2 | 003002-81-1 | 49 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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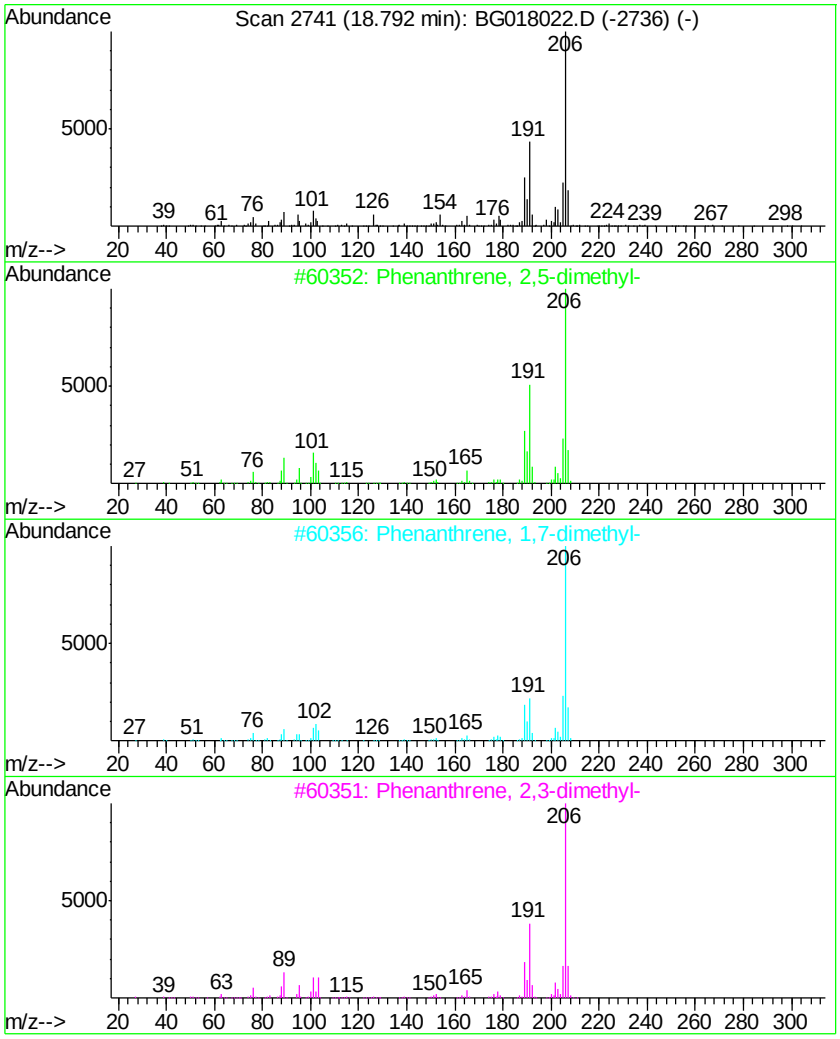
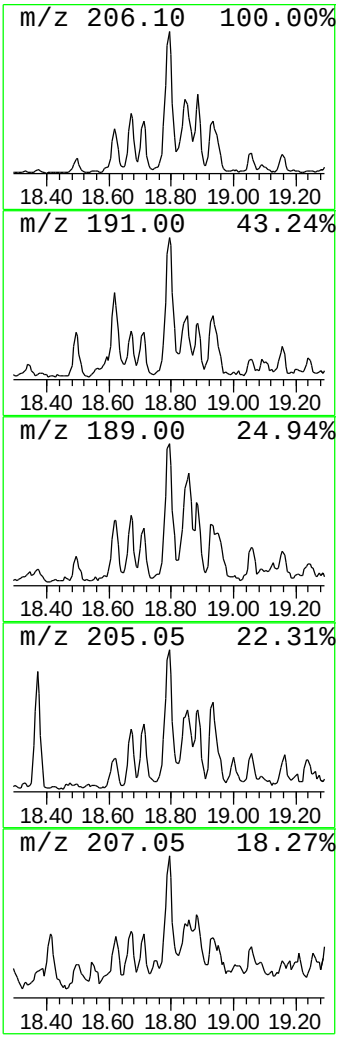
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.79 | 5.56 ng | 408296 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

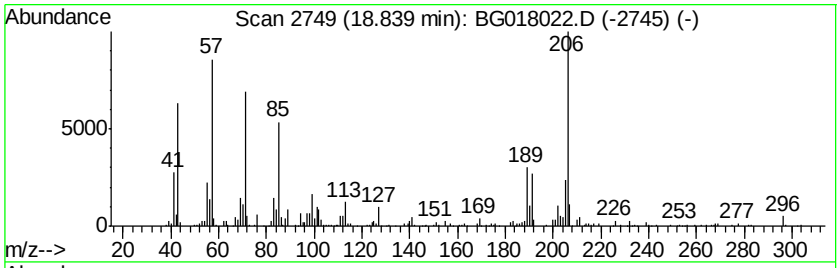
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

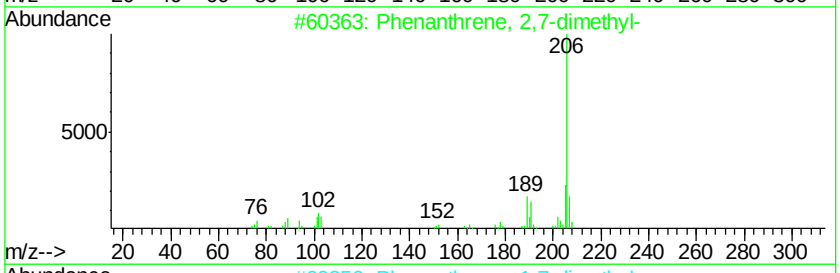
**********

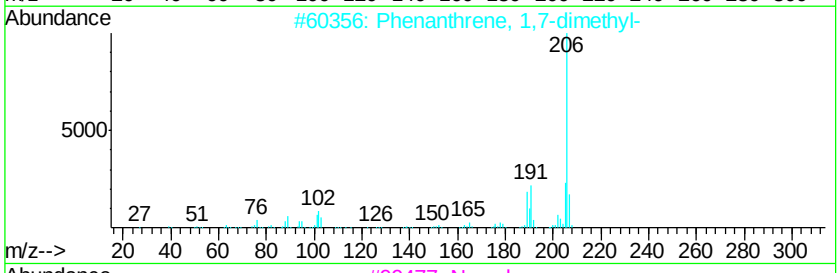
Peak Number 16 Phenanthrene, 2,7-dimethyl- Concentration Rank 11

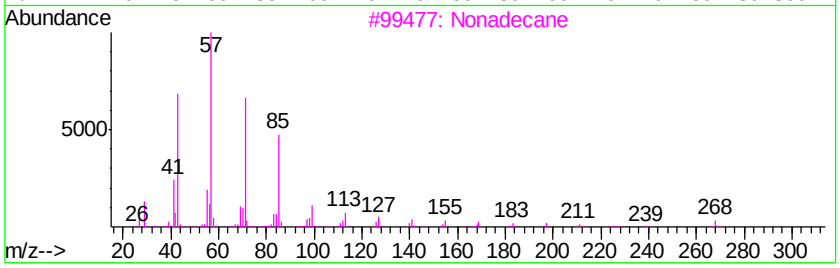
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.84 | 4.95 ng | 363544 | Phenanthrene-d10 | 16.98 |

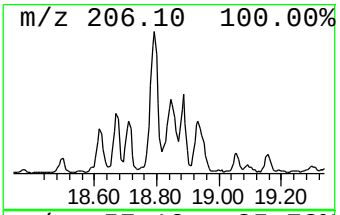
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 78 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 70 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 68 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 64 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 62 |

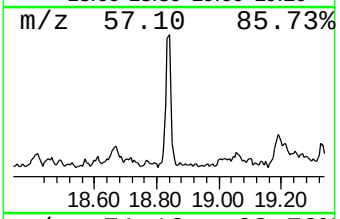


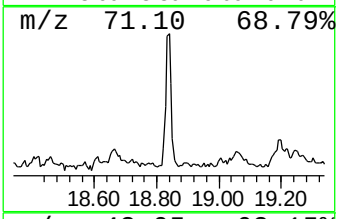



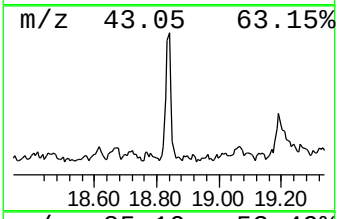



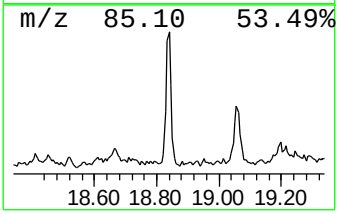



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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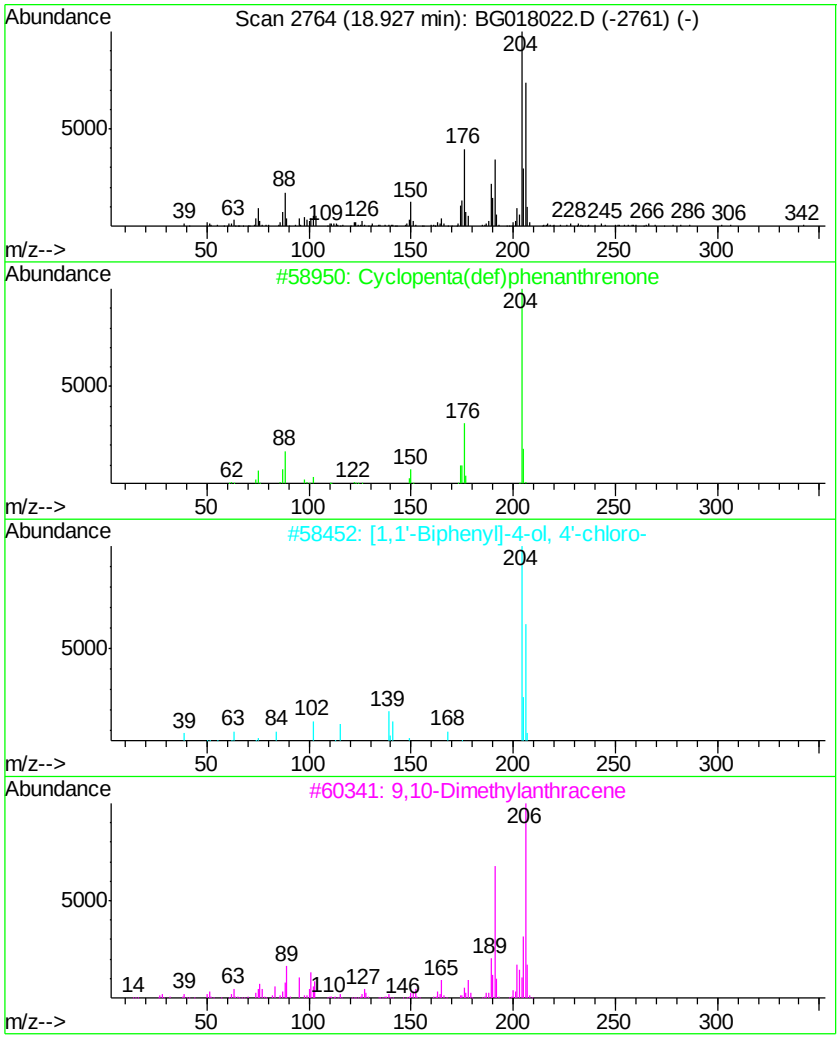
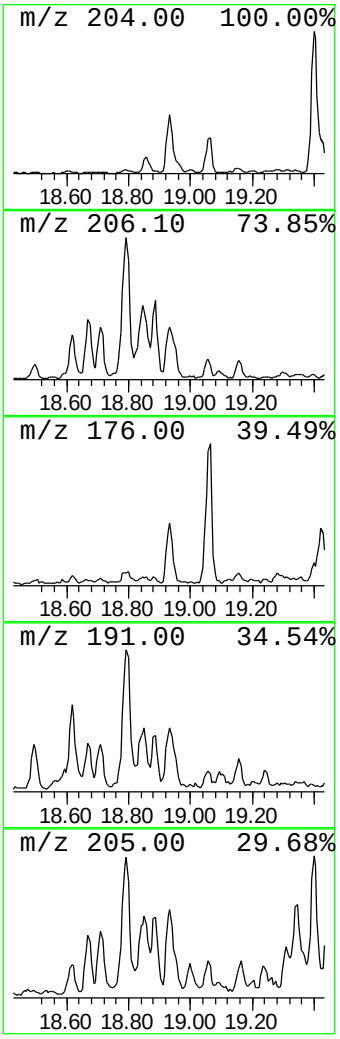
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.93 | 3.85 ng | 282835 | Phenanthrene-d10 | 16.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 90 |
| 2 | [1,1'-Biphenyl]-4-ol, 4'-chloro- | 204 | C12H9ClO | 028034-99-3 | 50 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 42 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 42 |
| 5 | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14 | 085385-68-8 | 41 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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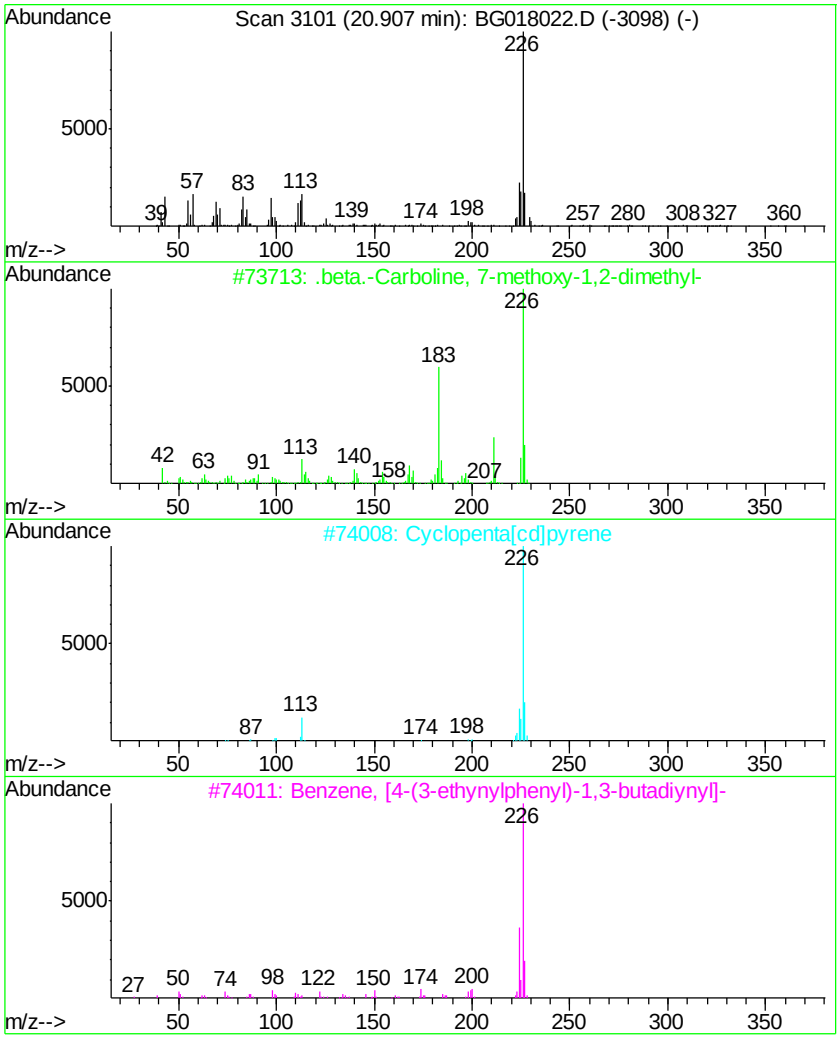
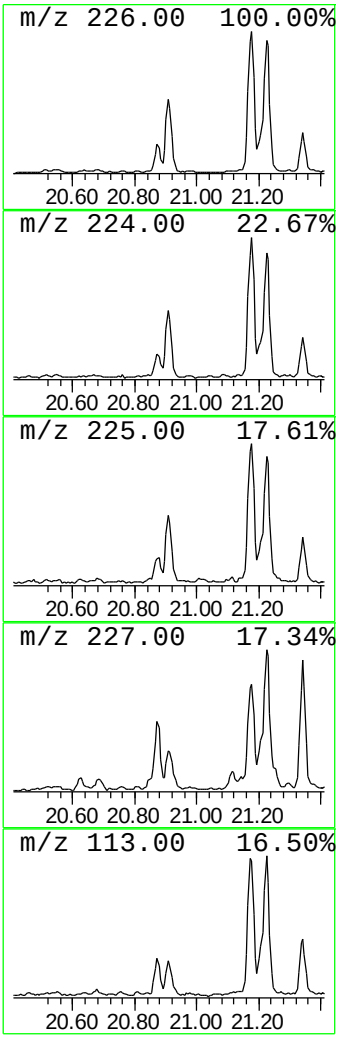
Peak Number 18 .beta.-Carboline, 7-methoxy... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.91 | 3.68 ng | 735584 | Chrysene-d12 | 21.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 52 |
| 2 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 49 |
| 3 | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 43 |
| 4 | 2-Phenyl-4,5-methylenedioxybenza... | 226 | C14H10O3 | 004432-95-5 | 38 |
| 5 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

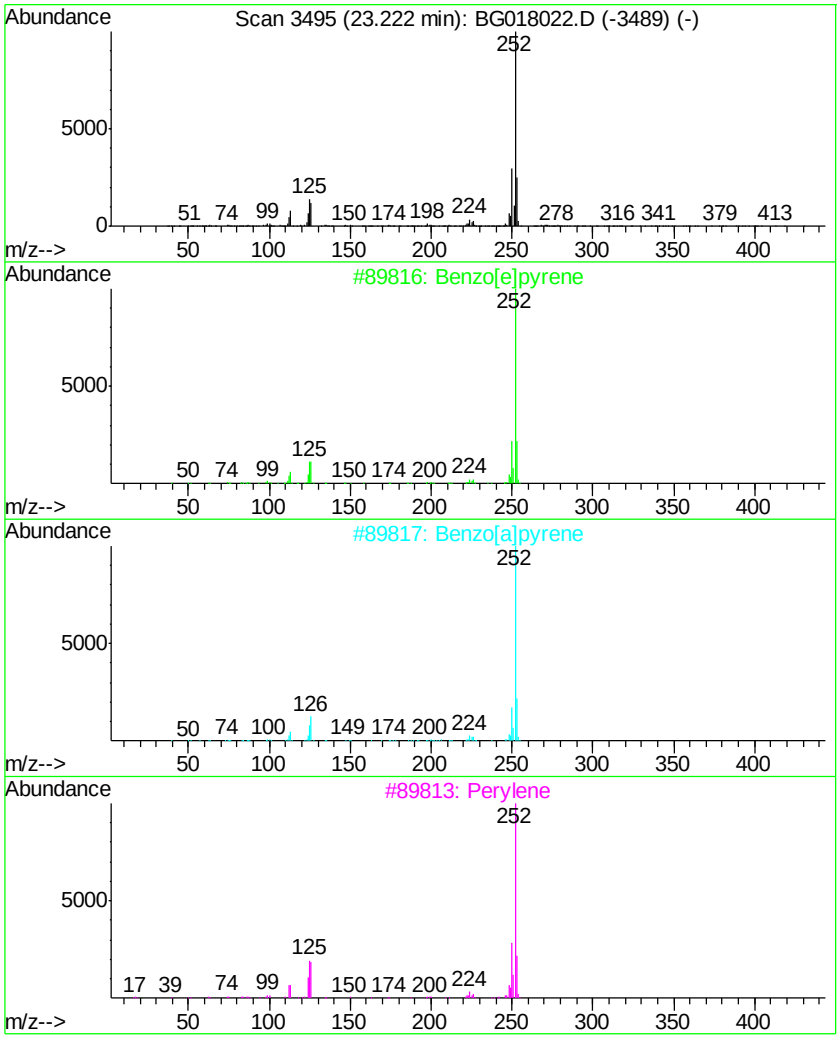
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

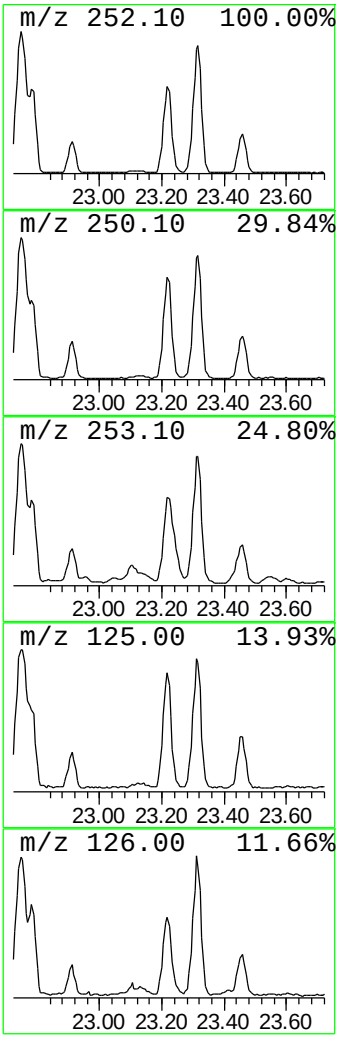
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.22 | 17.69 ng | 1568720 | Perylene-d12 | 23.41 |

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



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018022.D
Acq On : 21 Jul 2015 14:27
Operator : TP/UM
Sample : G2954-06 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** TEC-E2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Butane, 2-methoxy... | 2.83 | 7.4 | ng | 224815 | 1 | 7.56 | 608235 | 20.0 |
| 2-Pentanone, 4-hy... | 4.71 | 21.6 | ng | 656431 | 1 | 7.56 | 608235 | 20.0 |
| unknown7.10 | 7.10 | 51.8 | ng | 1575530 | 1 | 7.56 | 608235 | 20.0 |
| Heptadecane | 15.97 | 3.4 | ng | 251573 | 4 | 16.98 | 1469240 | 20.0 |
| Octadecane | 16.76 | 2.9 | ng | 215356 | 4 | 16.98 | 1469240 | 20.0 |
| Dibenzothiophene | 16.81 | 3.4 | ng | 246574 | 4 | 16.98 | 1469240 | 20.0 |
| Phenanthrene, 2-m... | 17.86 | 6.2 | ng | 455783 | 4 | 16.98 | 1469240 | 20.0 |
| 1H-Cyclopropa[l]p... | 17.91 | 12.2 | ng | 897231 | 4 | 16.98 | 1469240 | 20.0 |
| 4H-Cyclopenta[def... | 18.05 | 11.2 | ng | 823574 | 4 | 16.98 | 1469240 | 20.0 |
| Anthracene, 2-met... | 18.09 | 3.2 | ng | 234783 | 4 | 16.98 | 1469240 | 20.0 |
| 1,2,4,8-Tetrameth... | 18.37 | 4.3 | ng | 317871 | 4 | 16.98 | 1469240 | 20.0 |
| 9,10-Anthracenedione | 18.41 | 2.7 | ng | 198851 | 4 | 16.98 | 1469240 | 20.0 |
| Phenanthrene, 2,5... | 18.79 | 5.6 | ng | 408296 | 4 | 16.98 | 1469240 | 20.0 |
| Phenanthrene, 2,7... | 18.84 | 5.0 | ng | 363544 | 4 | 16.98 | 1469240 | 20.0 |
| Cyclopenta(def)ph... | 18.93 | 3.9 | ng | 282835 | 4 | 16.98 | 1469240 | 20.0 |
| .beta.-Carboline,... | 20.91 | 3.7 | ng | 735584 | 5 | 21.19 | 3992680 | 20.0 |
| Benzo[e]pyrene | 23.22 | 17.7 | ng | 1568720 | 6 | 23.41 | 1773820 | 20.0 |