LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

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-BG121415.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 | 3.104 | 41 | 45 | 49 | rBV3 | 5438 | 8665 | 0.86% | 0.126% |
| 2 | 8.081 | 886 | 892 | 904 | rBB | 48886 | 89042 | 8.88% | 1.298% |
| 3 | 8.627 | 979 | 985 | 992 | rBB | 8388 | 14575 | 1.45% | 0.212% |
| 4 | 10.901 | 1363 | 1372 | 1376 | rBV | 77896 | 141808 | 14.14% | 2.067% |
| 5 | 10.948 | 1376 | 1380 | 1393 | rVV | 172817 | 311992 | 31.10% | 4.547% |
| 6 | 11.065 | 1393 | 1400 | 1407 | rVB3 | 3838 | 7033 | 0.70% | 0.102% |
| 7 | 12.546 | 1646 | 1652 | 1662 | rBB | 96847 | 162801 | 16.23% | 2.373% |
| 8 | 12.769 | 1681 | 1690 | 1697 | rBB | 47174 | 78326 | 7.81% | 1.141% |
| 9 | 13.551 | 1817 | 1823 | 1830 | rVB | 33818 | 52882 | 5.27% | 0.771% |
| 10 | 13.745 | 1851 | 1856 | 1864 | rBB | 10585 | 17214 | 1.72% | 0.251% |
| 11 | 13.892 | 1873 | 1881 | 1888 | rVB4 | 13452 | 32617 | 3.25% | 0.475% |
| 12 | 14.038 | 1899 | 1906 | 1911 | rBV2 | 19925 | 33860 | 3.38% | 0.493% |
| 13 | 14.091 | 1911 | 1915 | 1924 | rVB3 | 13804 | 24854 | 2.48% | 0.362% |
| 14 | 14.273 | 1942 | 1946 | 1949 | rBV | 7539 | 10232 | 1.02% | 0.149% |
| 15 | 14.438 | 1965 | 1974 | 1980 | rVB2 | 11751 | 24122 | 2.40% | 0.352% |
| 16 | 14.714 | 2016 | 2021 | 2027 | rVB2 | 133387 | 209648 | 20.90% | 3.055% |
| 17 | 14.779 | 2027 | 2032 | 2039 | rVB | 207184 | 321275 | 32.02% | 4.682% |
| 18 | 14.843 | 2039 | 2043 | 2050 | rVB2 | 7449 | 10621 | 1.06% | 0.155% |
| 19 | 14.914 | 2050 | 2055 | 2064 | rBV2 | 2479 | 5571 | 0.56% | 0.081% |
| 20 | 15.025 | 2068 | 2074 | 2078 | rVB2 | 5752 | 8730 | 0.87% | 0.127% |
| 21 | 15.114 | 2082 | 2089 | 2096 | rBV | 140049 | 213409 | 21.27% | 3.110% |
| 22 | 15.178 | 2096 | 2100 | 2106 | rVB3 | 4435 | 6946 | 0.69% | 0.101% |
| 23 | 15.325 | 2119 | 2125 | 2130 | rBV3 | 2998 | 5231 | 0.52% | 0.076% |
| 24 | 15.501 | 2147 | 2155 | 2157 | rBV2 | 2272 | 4198 | 0.42% | 0.061% |
| 25 | 15.707 | 2187 | 2190 | 2193 | rVV | 6310 | 8493 | 0.85% | 0.124% |
| 26 | 15.760 | 2193 | 2199 | 2210 | rVB | 193553 | 290567 | 28.96% | 4.234% |
| 27 | 15.854 | 2210 | 2215 | 2217 | rBV2 | 7033 | 10282 | 1.02% | 0.150% |
| 28 | 15.883 | 2217 | 2220 | 2223 | rVV2 | 11004 | 17401 | 1.73% | 0.254% |
| 29 | 15.924 | 2223 | 2227 | 2231 | rVV2 | 22441 | 34001 | 3.39% | 0.496% |
| 30 | 15.966 | 2231 | 2234 | 2237 | rVV2 | 4382 | 6499 | 0.65% | 0.095% |
| 31 | 16.013 | 2237 | 2242 | 2244 | rVV3 | 9238 | 14830 | 1.48% | 0.216% |
| 32 | 16.054 | 2244 | 2249 | 2256 | rVB | 23773 | 36761 | 3.66% | 0.536% |
| 33 | 16.195 | 2263 | 2273 | 2282 | rBB | 25860 | 54839 | 5.47% | 0.799% |
| 34 | 16.295 | 2282 | 2290 | 2295 | rBB2 | 3838 | 6685 | 0.67% | 0.097% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

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-BG121415.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.553 | 2330 | 2334 | 2340 | rVB | 12387 | 16863 | 1.68% | 0.246% |
| 36 | 16.759 | 2363 | 2369 | 2374 | rVB3 | 16683 | 29423 | 2.93% | 0.429% |
| 37 | 16.812 | 2374 | 2378 | 2384 | rVV3 | 5567 | 9246 | 0.92% | 0.135% |
| 38 | 16.912 | 2390 | 2395 | 2400 | rVB4 | 6867 | 11758 | 1.17% | 0.171% |
| 39 | 16.988 | 2400 | 2408 | 2411 | rBV2 | 5459 | 11994 | 1.20% | 0.175% |
| 40 | 17.023 | 2411 | 2414 | 2418 | rVV4 | 6167 | 10089 | 1.01% | 0.147% |
| 41 | 17.111 | 2424 | 2429 | 2436 | rVB5 | 3129 | 6644 | 0.66% | 0.097% |
| 42 | 17.188 | 2436 | 2442 | 2449 | rBV4 | 6535 | 17001 | 1.69% | 0.248% |
| 43 | 17.282 | 2452 | 2458 | 2467 | rVB | 43760 | 65055 | 6.48% | 0.948% |
| 44 | 17.464 | 2482 | 2489 | 2492 | rBV | 196390 | 314447 | 31.34% | 4.582% |
| 45 | 17.505 | 2492 | 2496 | 2502 | rVV | 694697 | 1003237 | 100.00% | 14.620% |
| 46 | 17.558 | 2502 | 2505 | 2507 | rVV2 | 13888 | 18544 | 1.85% | 0.270% |
| 47 | 17.593 | 2507 | 2511 | 2516 | rVV | 39854 | 61288 | 6.11% | 0.893% |
| 48 | 17.652 | 2519 | 2521 | 2525 | rVV2 | 3690 | 4336 | 0.43% | 0.063% |
| 49 | 17.863 | 2545 | 2557 | 2572 | rVV | 24903 | 45293 | 4.51% | 0.660% |
| 50 | 17.975 | 2572 | 2576 | 2584 | rVV3 | 9490 | 15107 | 1.51% | 0.220% |
| 51 | 18.040 | 2584 | 2587 | 2595 | rVV3 | 3830 | 7379 | 0.74% | 0.108% |
| 52 | 18.181 | 2607 | 2611 | 2619 | rVB | 3242 | 6386 | 0.64% | 0.093% |
| 53 | 18.333 | 2631 | 2637 | 2641 | rBV | 38414 | 54440 | 5.43% | 0.793% |
| 54 | 18.386 | 2641 | 2646 | 2652 | rVB | 53786 | 77069 | 7.68% | 1.123% |
| 55 | 18.463 | 2652 | 2659 | 2664 | rBV | 15934 | 23037 | 2.30% | 0.336% |
| 56 | 18.533 | 2664 | 2671 | 2675 | rBV2 | 79243 | 131662 | 13.12% | 1.919% |
| 57 | 18.827 | 2716 | 2721 | 2726 | rVV | 32242 | 44431 | 4.43% | 0.648% |
| 58 | 19.074 | 2759 | 2763 | 2767 | rVB2 | 4998 | 6917 | 0.69% | 0.101% |
| 59 | 19.121 | 2767 | 2771 | 2775 | rBV2 | 3488 | 5607 | 0.56% | 0.082% |
| 60 | 19.162 | 2775 | 2778 | 2782 | rVB2 | 3190 | 4411 | 0.44% | 0.064% |
| 61 | 19.238 | 2785 | 2791 | 2797 | rBV3 | 8842 | 16508 | 1.65% | 0.241% |
| 62 | 19.303 | 2798 | 2802 | 2812 | rVB4 | 4998 | 12566 | 1.25% | 0.183% |
| 63 | 19.379 | 2812 | 2815 | 2818 | rBV4 | 2961 | 4270 | 0.43% | 0.062% |
| 64 | 19.508 | 2831 | 2837 | 2844 | rVV | 407918 | 586311 | 58.44% | 8.544% |
| 65 | 19.567 | 2844 | 2847 | 2850 | rVV2 | 4195 | 5879 | 0.59% | 0.086% |
| 66 | 19.602 | 2850 | 2853 | 2857 | rVV2 | 4973 | 6754 | 0.67% | 0.098% |
| 67 | 19.755 | 2874 | 2879 | 2888 | rVB | 8971 | 15226 | 1.52% | 0.222% |
| 68 | 19.838 | 2888 | 2893 | 2895 | rBV2 | 70224 | 105552 | 10.52% | 1.538% |
| 69 | 19.873 | 2895 | 2899 | 2907 | rVV | 255561 | 378258 | 37.70% | 5.512% |
| 70 | 19.937 | 2907 | 2910 | 2916 | rVB3 | 10569 | 16068 | 1.60% | 0.234% |
| 71 | 20.043 | 2923 | 2928 | 2934 | rVB | 13224 | 18397 | 1.83% | 0.268% |

LSC Area Percent Report

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Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

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-BG121415.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.184 | 2946 | 2952 | 2953 | rBV3 | 10860 | 14721 | 1.47% | 0.215% |
| 73 | 20.249 | 2959 | 2963 | 2969 | rVB | 5981 | 7834 | 0.78% | 0.114% |
| 74 | 20.360 | 2969 | 2982 | 2986 | rBV | 41251 | 69684 | 6.95% | 1.016% |
| 75 | 20.460 | 2991 | 2999 | 3003 | rBV | 45196 | 65029 | 6.48% | 0.948% |
| 76 | 20.519 | 3003 | 3009 | 3012 | rVV3 | 12861 | 24720 | 2.46% | 0.360% |
| 77 | 20.554 | 3012 | 3015 | 3018 | rVV | 6869 | 9116 | 0.91% | 0.133% |
| 78 | 20.595 | 3019 | 3022 | 3028 | rVB6 | 4263 | 6338 | 0.63% | 0.092% |
| 79 | 20.660 | 3028 | 3033 | 3036 | rBV2 | 5955 | 8559 | 0.85% | 0.125% |
| 80 | 20.701 | 3036 | 3040 | 3045 | rVB3 | 5849 | 8014 | 0.80% | 0.117% |
| 81 | 20.883 | 3068 | 3071 | 3075 | rBV | 5395 | 7458 | 0.74% | 0.109% |
| 82 | 20.983 | 3084 | 3088 | 3093 | rVV6 | 3908 | 8778 | 0.87% | 0.128% |
| 83 | 21.077 | 3100 | 3104 | 3109 | rVV3 | 4487 | 8311 | 0.83% | 0.121% |
| 84 | 21.130 | 3110 | 3113 | 3118 | rVV4 | 2745 | 4769 | 0.48% | 0.069% |
| 85 | 21.312 | 3139 | 3144 | 3147 | rVV | 10157 | 14261 | 1.42% | 0.208% |
| 86 | 21.353 | 3147 | 3151 | 3155 | rVV | 9968 | 15618 | 1.56% | 0.228% |
| 87 | 21.406 | 3155 | 3160 | 3166 | rVV3 | 8816 | 17929 | 1.79% | 0.261% |
| 88 | 21.735 | 3206 | 3216 | 3221 | rBV2 | 268097 | 535197 | 53.35% | 7.800% |
| 89 | 21.782 | 3221 | 3224 | 3235 | rVB | 46535 | 73308 | 7.31% | 1.068% |
| 90 | 21.935 | 3245 | 3250 | 3256 | rVB3 | 10955 | 18146 | 1.81% | 0.264% |
| 91 | 22.152 | 3281 | 3287 | 3291 | rBV4 | 4450 | 8054 | 0.80% | 0.117% |
| 92 | 22.470 | 3338 | 3341 | 3347 | rVB3 | 3815 | 6262 | 0.62% | 0.091% |
| 93 | 22.793 | 3394 | 3396 | 3403 | rVB7 | 3298 | 5395 | 0.54% | 0.079% |
| 94 | 23.962 | 3588 | 3595 | 3602 | rVV3 | 12594 | 38390 | 3.83% | 0.559% |
| 95 | 24.021 | 3603 | 3605 | 3614 | rVB5 | 8313 | 15418 | 1.54% | 0.225% |
| 96 | 24.779 | 3727 | 3734 | 3739 | rBV3 | 4166 | 10243 | 1.02% | 0.149% |
| 97 | 24.843 | 3739 | 3745 | 3755 | rVB3 | 8693 | 22536 | 2.25% | 0.328% |
| 98 | 25.002 | 3760 | 3772 | 3783 | rBV2 | 137409 | 384091 | 38.29% | 5.597% |
| 99 | 26.118 | 3957 | 3962 | 3964 | rBV4 | 3613 | 5955 | 0.59% | 0.087% |
| 100 | 27.493 | 4191 | 4196 | 4197 | rBV3 | 3150 | 4319 | 0.43% | 0.063% |

Sum of corrected areas: 6861916

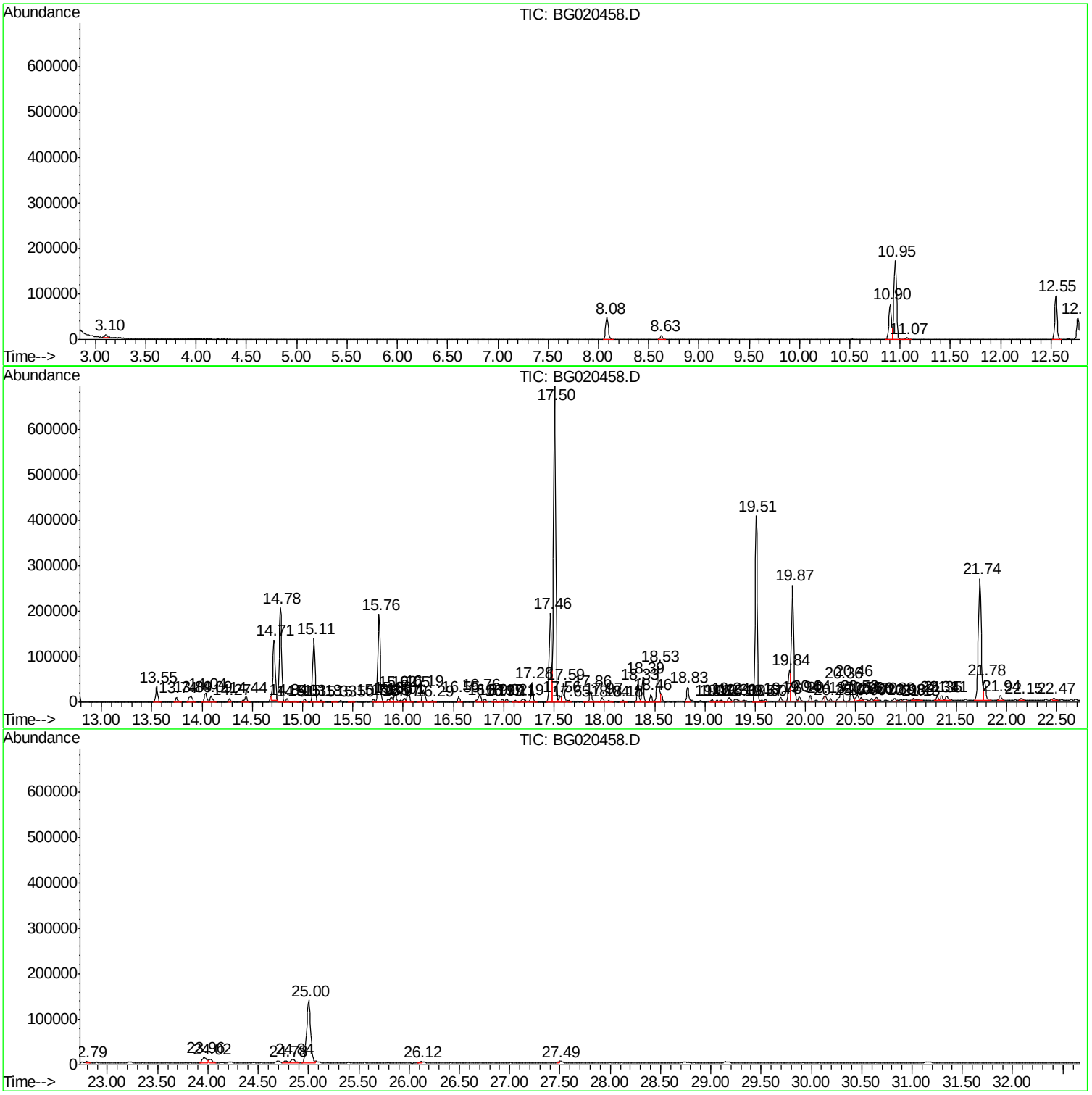
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

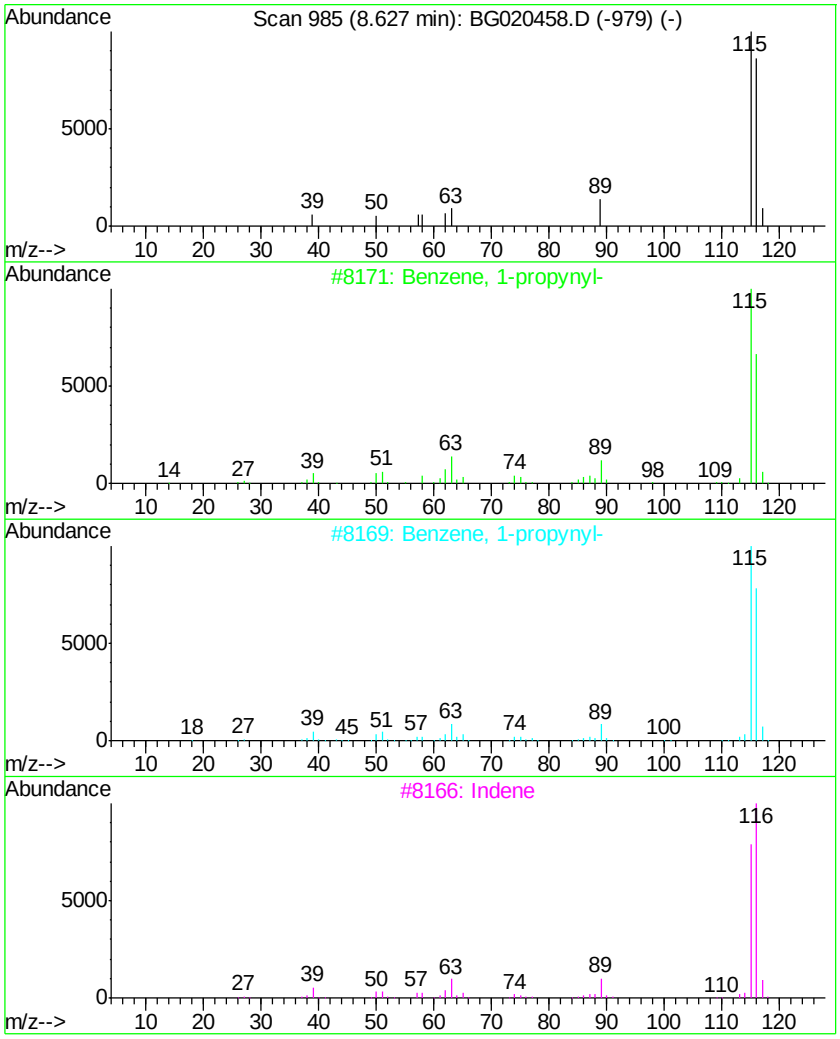
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

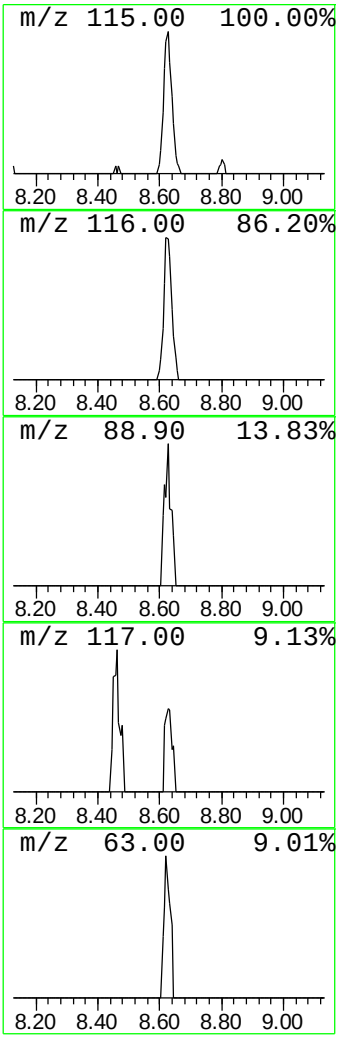
**********

Peak Number 1 Benzene, 1-propynyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.63 | 3.27 ng/ul | 14575 | 1,4-Dichlorobenzene-d4 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 90 |
| 2 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 90 |
| 3 | Indene | 116 | C9H8 | 000095-13-6 | 90 |
| 4 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 90 |
| 5 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 83 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

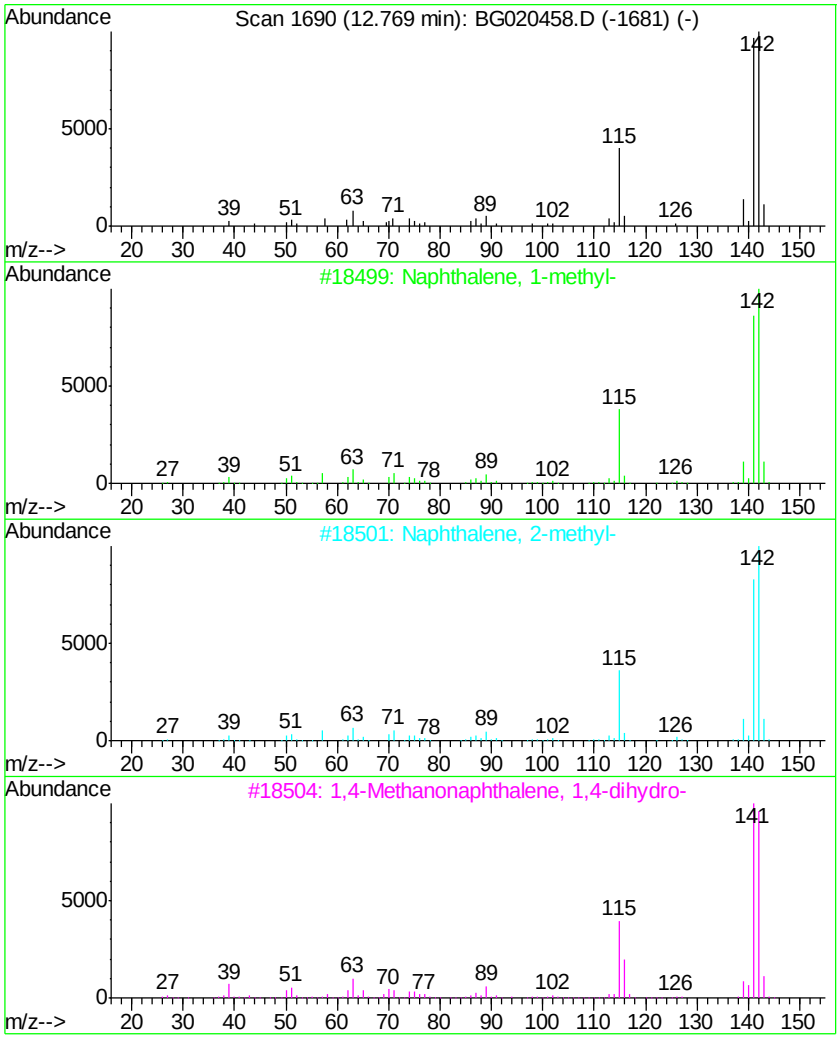
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

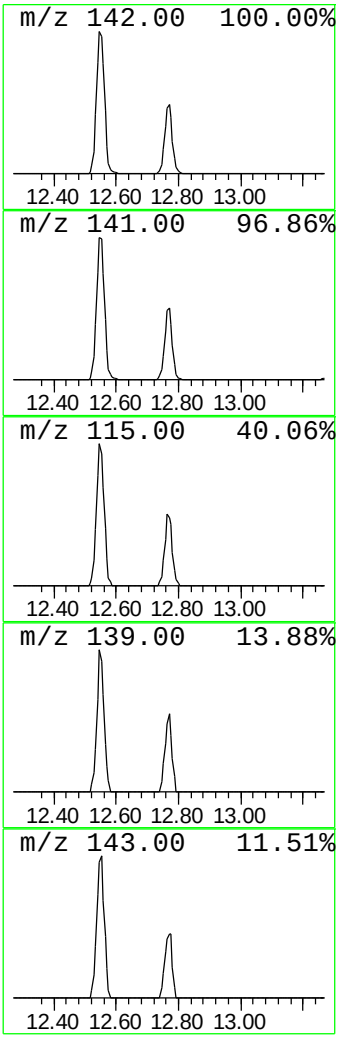
**********

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.77 | 11.05 ng/ul | 78326 | Naphthalene-d8 | 10.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

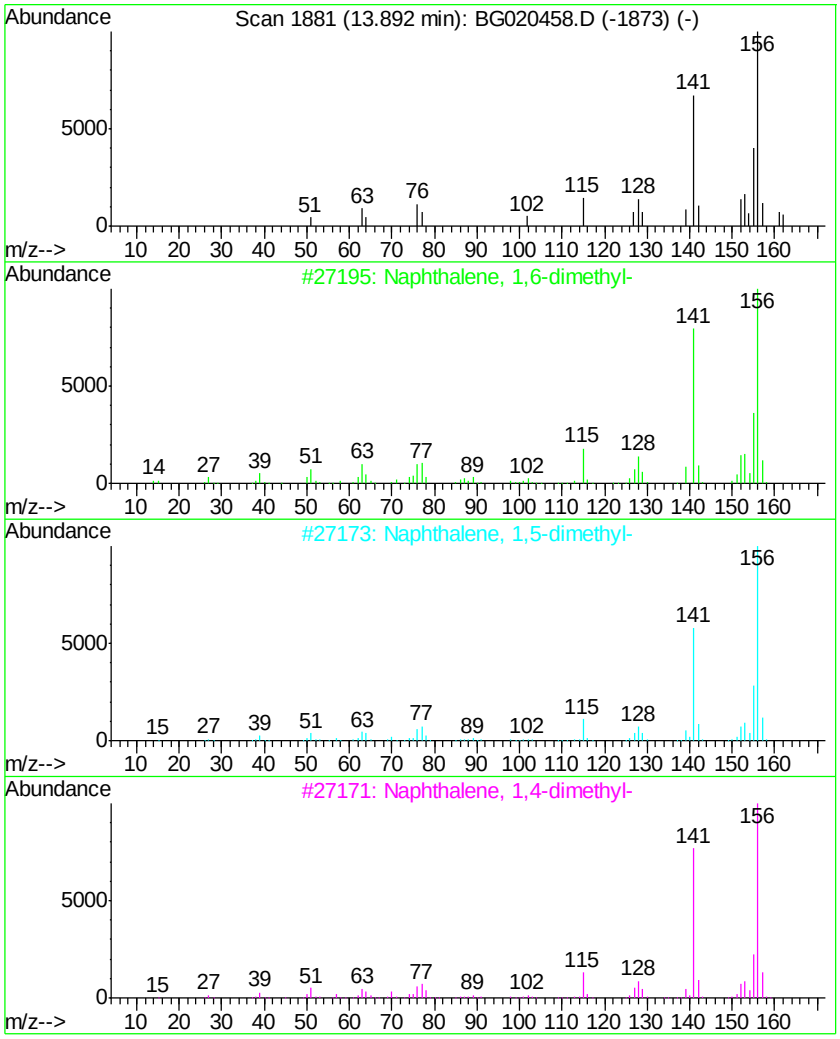
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

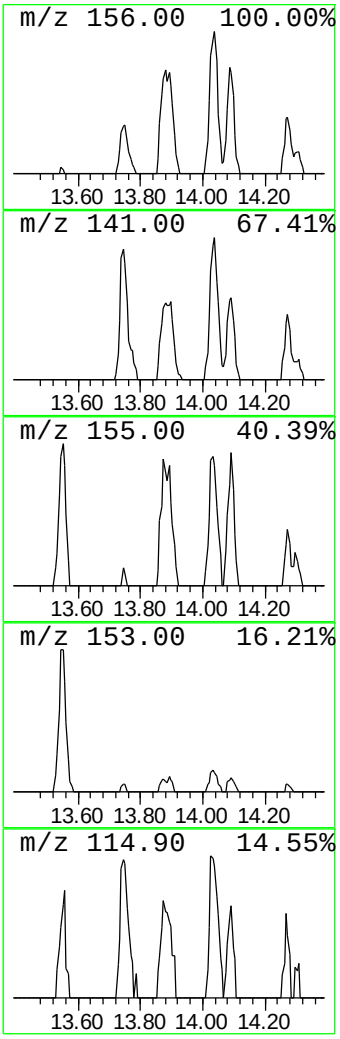
**********

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.89 | 3.11 ng/ul | 32617 | Acenaphthene-d10 | 14.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 95 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 94 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 94 |
| 5 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 94 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

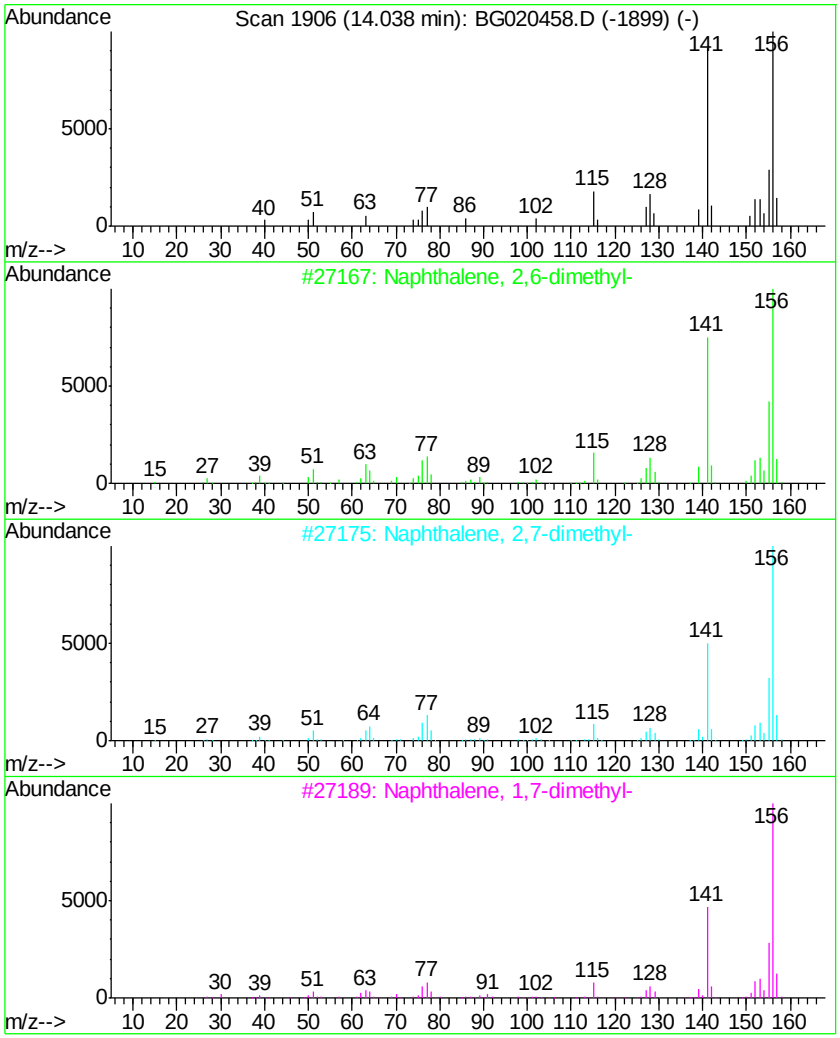
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

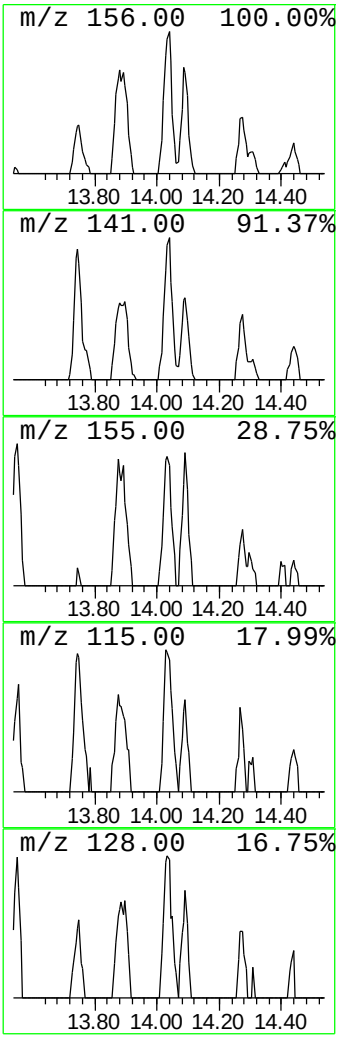
**********

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.04 | 3.23 ng/ul | 33860 | Acenaphthene-d10 | 14.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 4 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

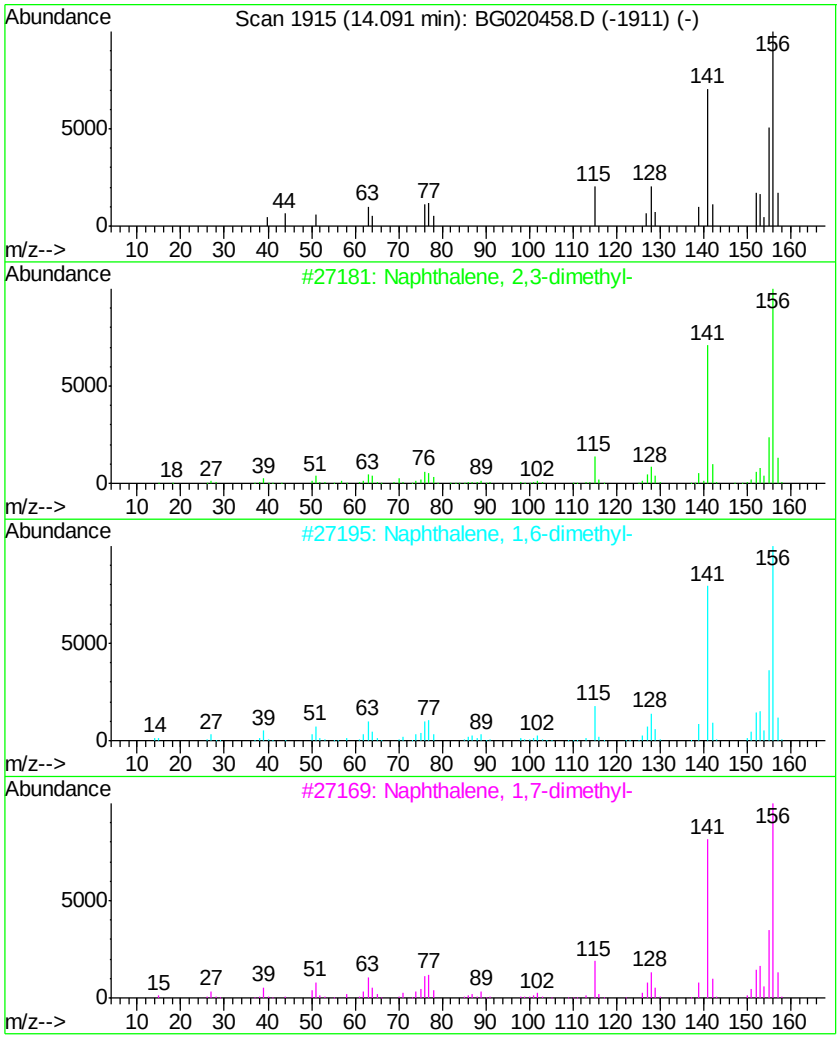
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

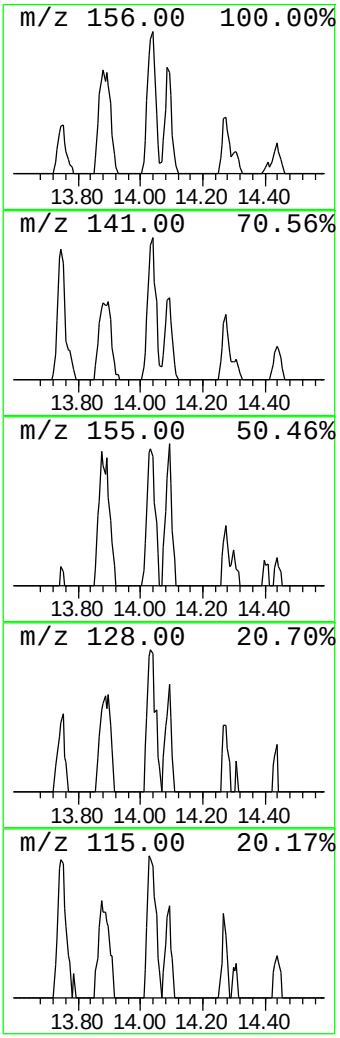
**********

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.09 | 2.37 ng/ul | 24854 | Acenaphthene-d10 | 14.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 94 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 94 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 94 |
| 4 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 94 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 94 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

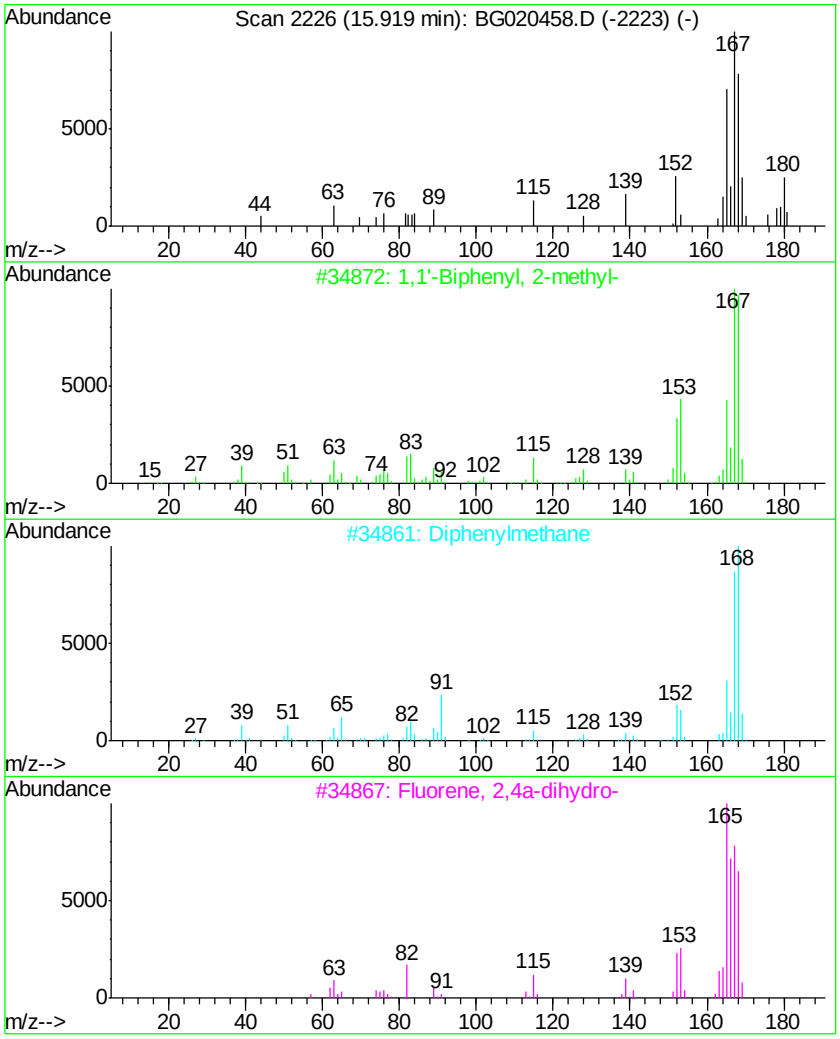
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

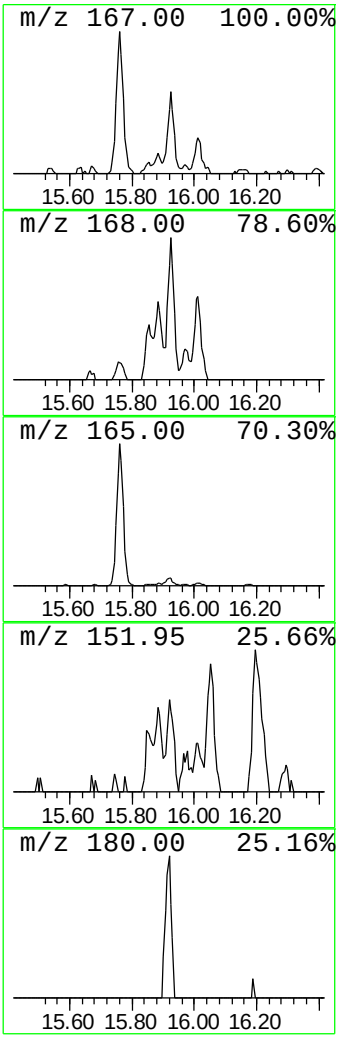
**********

Peak Number 6 1,1'-Biphenyl, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.92 | 3.24 ng/ul | 34001 | Acenaphthene-d10 | 14.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 62 |
| 2 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 59 |
| 3 | Fluorene, 2,4a-dihydro- | 168 | C13H12 | 059247-36-8 | 58 |
| 4 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 58 |
| 5 | Fluorene, 1,4-dihydro- | 168 | C13H12 | 041593-21-9 | 53 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

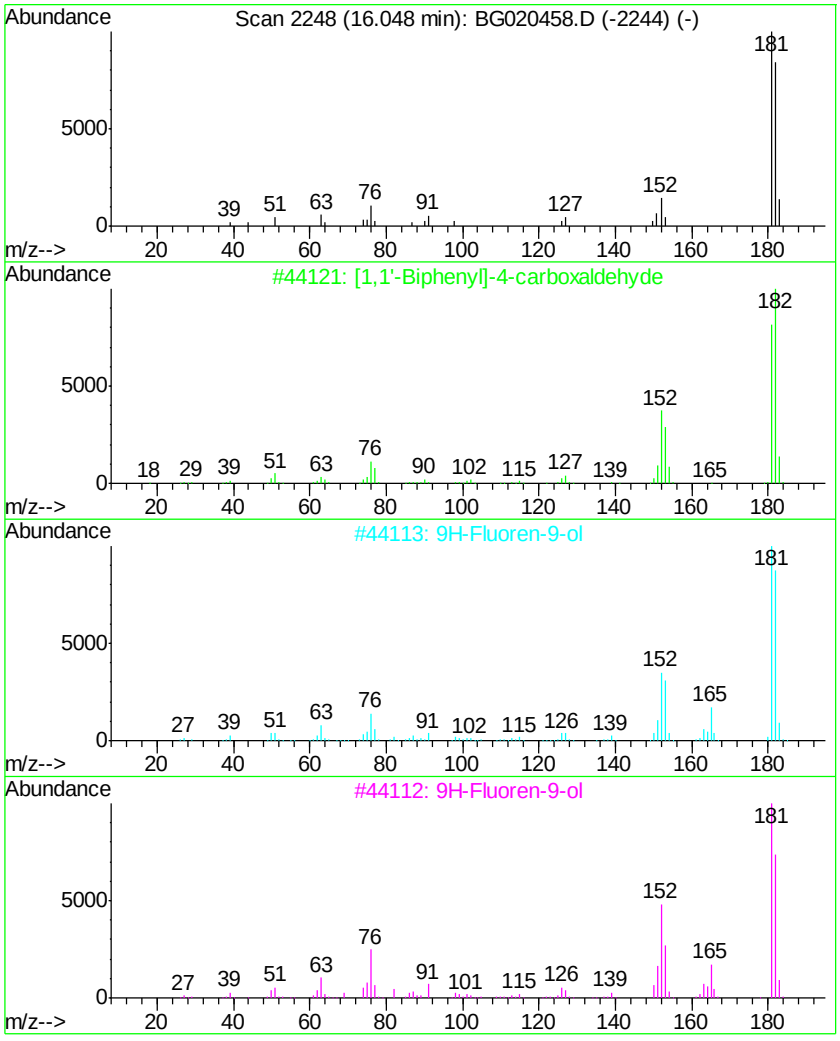
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

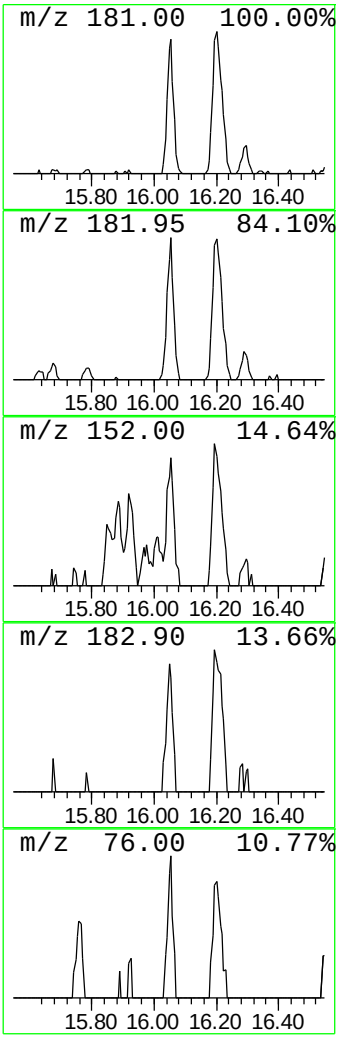
**********

Peak Number 7 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.05 | 3.51 ng/ul | 36761 | Acenaphthene-d10 | 14.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 87 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |
| 4 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |
| 5 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 72 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

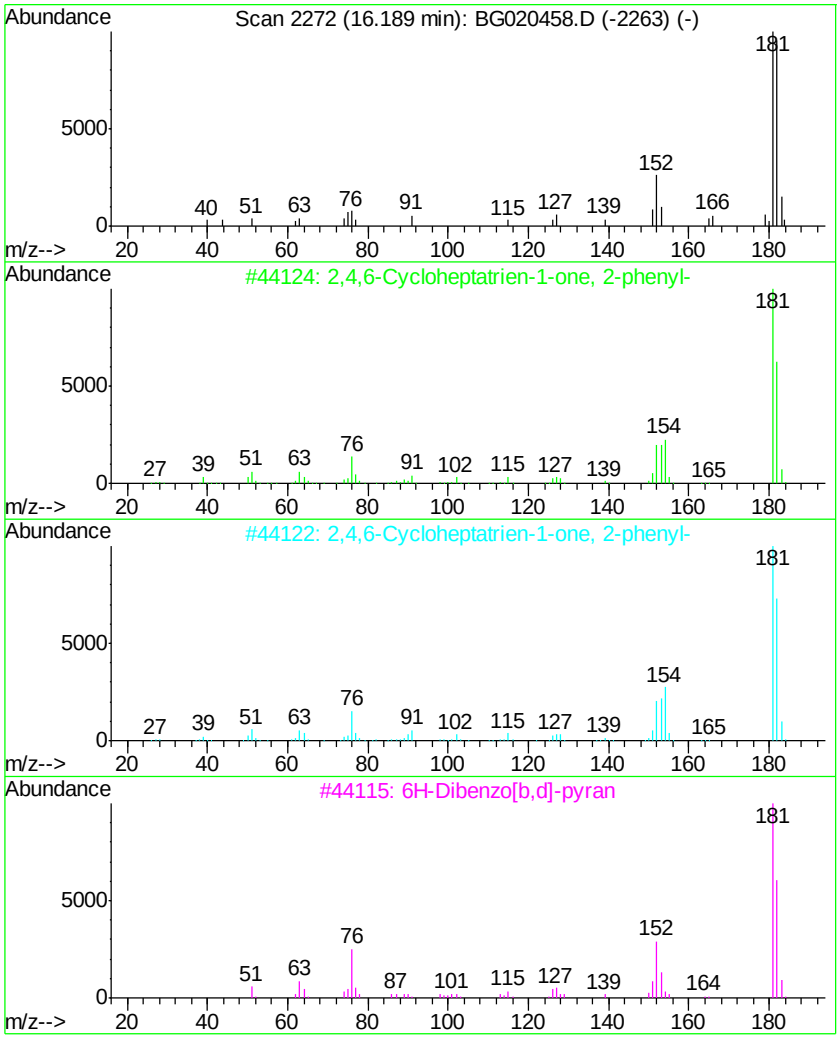
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

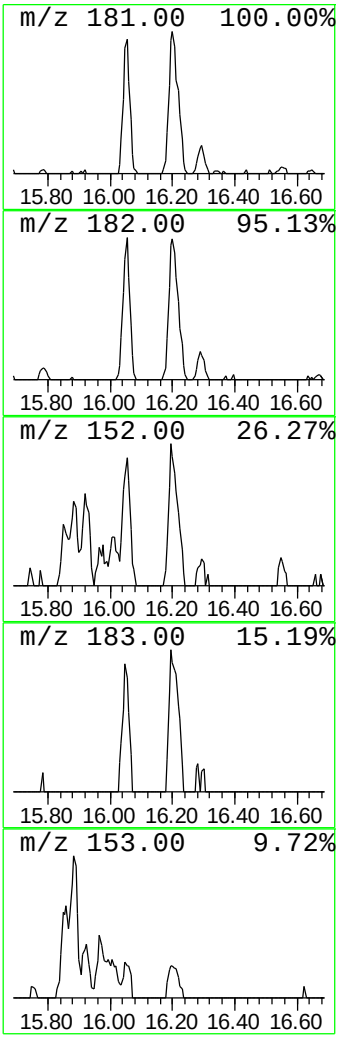
**********

Peak Number 8 2,4,6-Cycloheptatrien-1-one... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.19 | 3.49 ng/ul | 54839 | Phenanthrene-d10 | 17.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 87 |
| 2 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 86 |
| 3 | 6H-Dibenzo[b,d]-pyran | 182 | C13H10O | 000229-95-8 | 83 |
| 4 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |
| 5 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

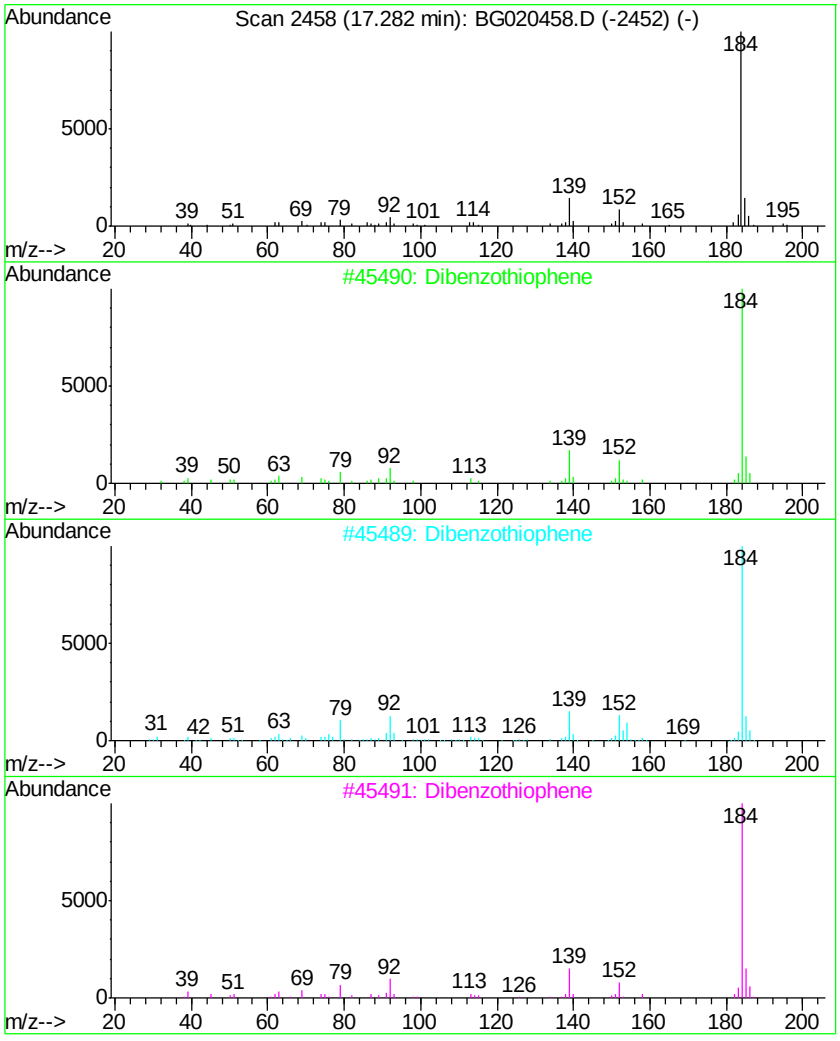
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

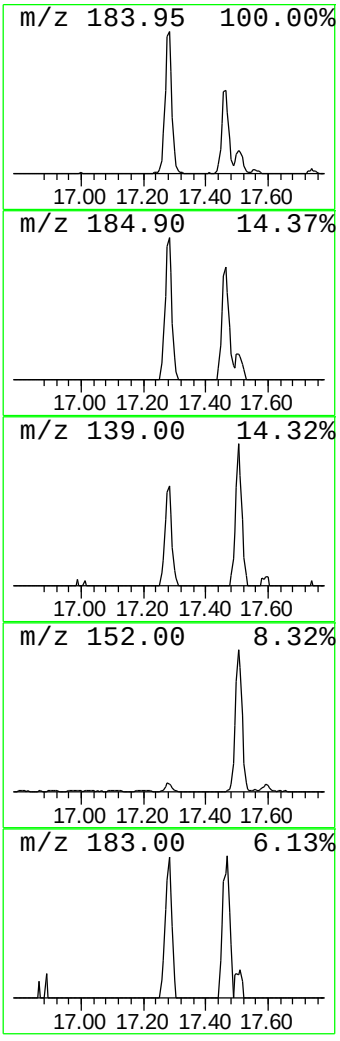
**********

Peak Number 9 Dibenzothiophene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.28 | 4.14 ng/ul | 65055 | Phenanthrene-d10 | 17.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |
| 3 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |
| 4 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 93 |
| 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

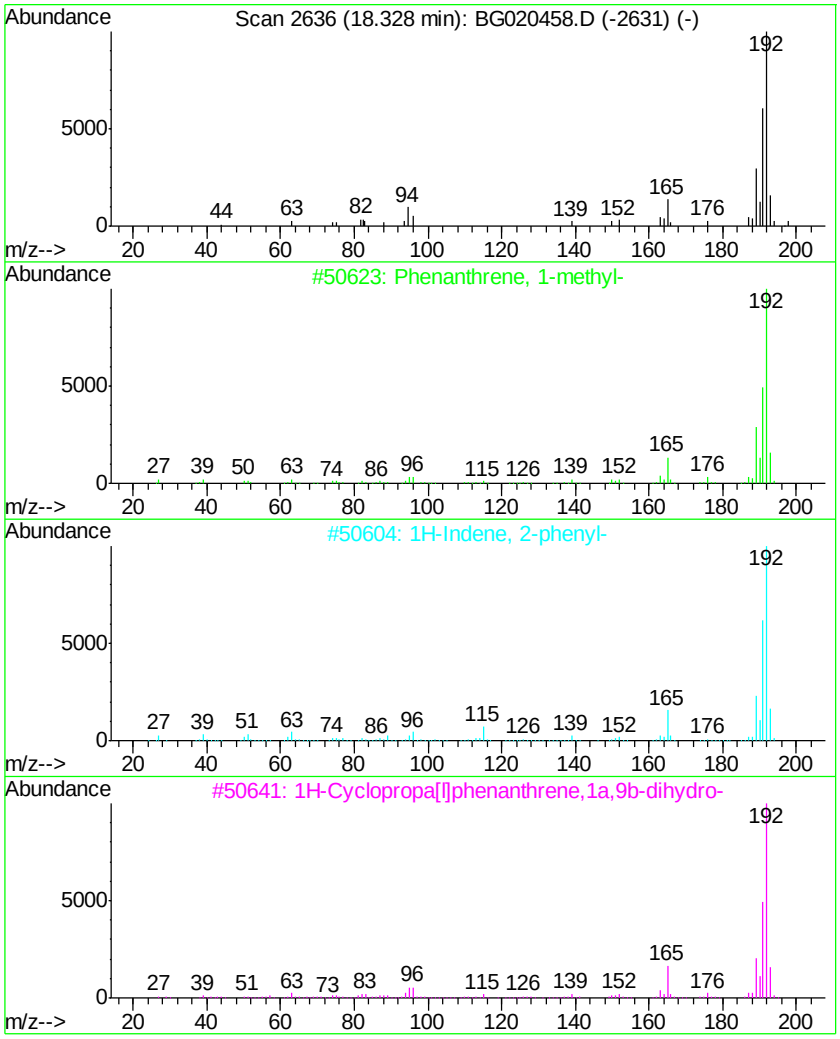
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

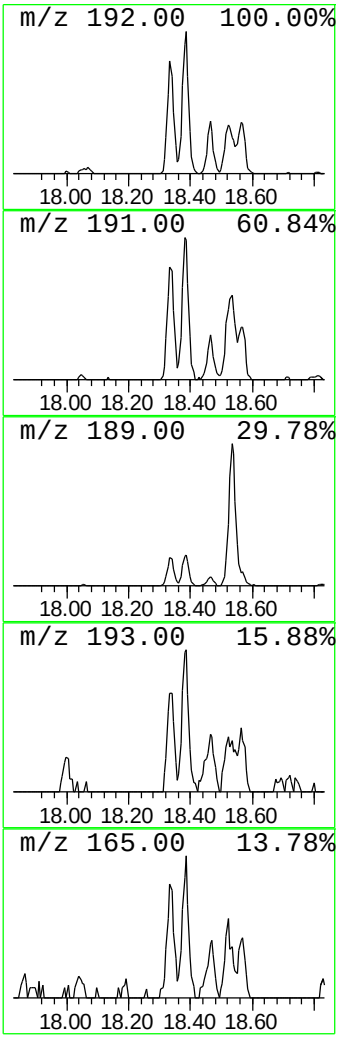
**********

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.33 | 3.46 ng/ul | 54440 | Phenanthrene-d10 | 17.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 94 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 94 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

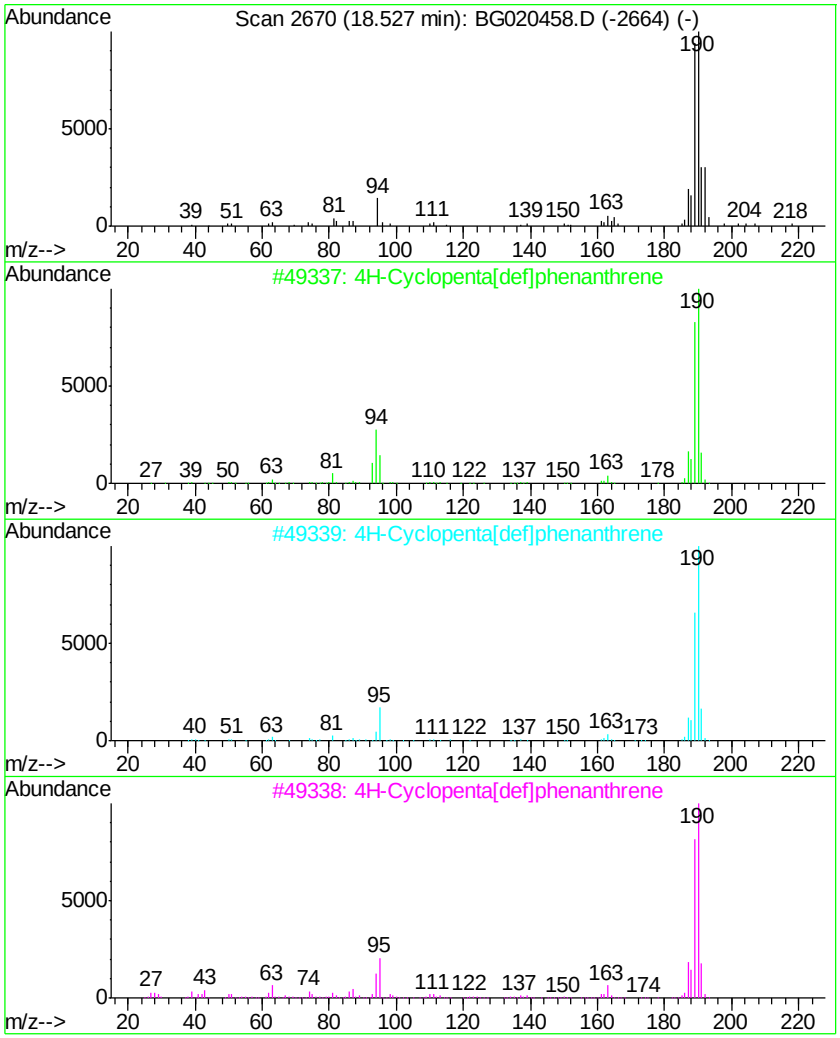
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

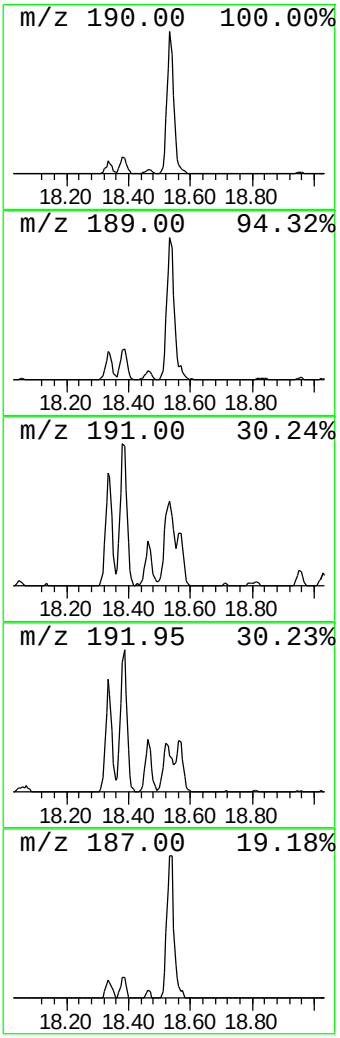
**********

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.53 | 8.37 ng/ul | 131662 | Phenanthrene-d10 | 17.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 91 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 90 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 4 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 42 |
| 5 | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4 | 004923-55-1 | 23 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

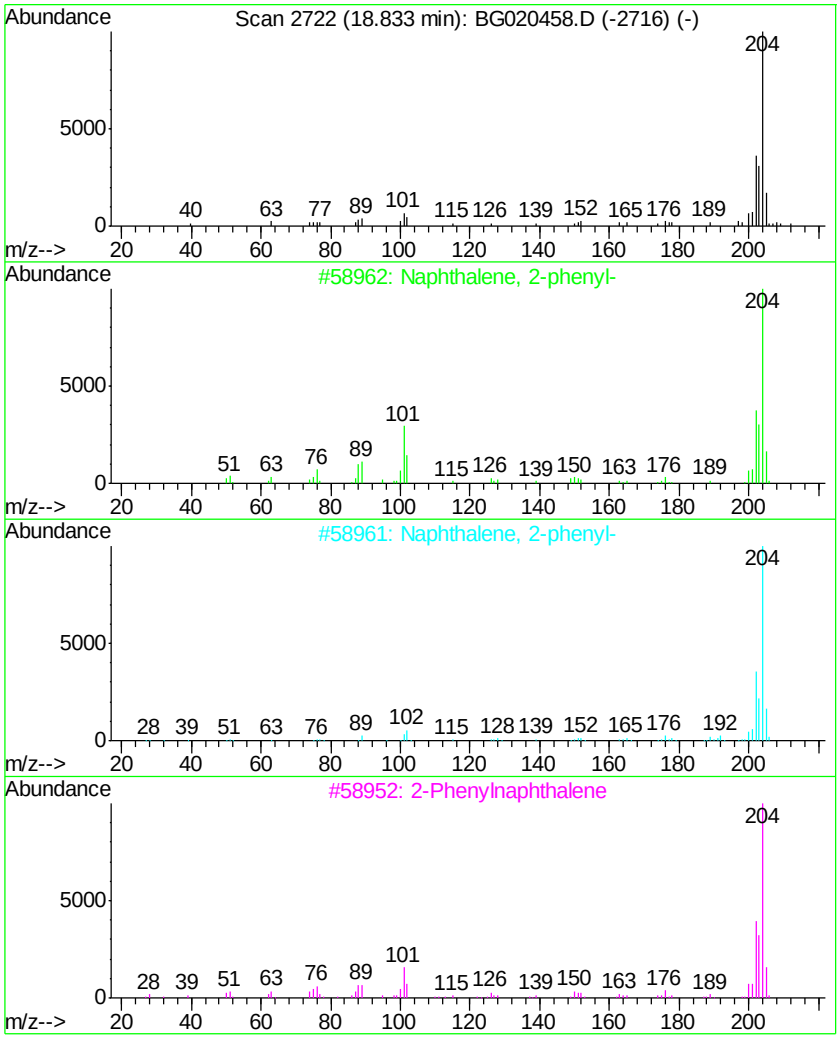
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

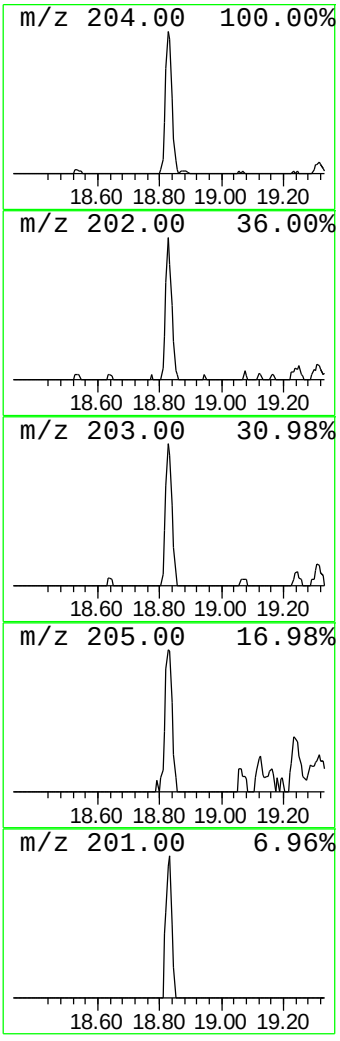
**********

Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.83 | 2.83 ng/ul | 44431 | Phenanthrene-d10 | 17.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 3 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 70 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 62 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

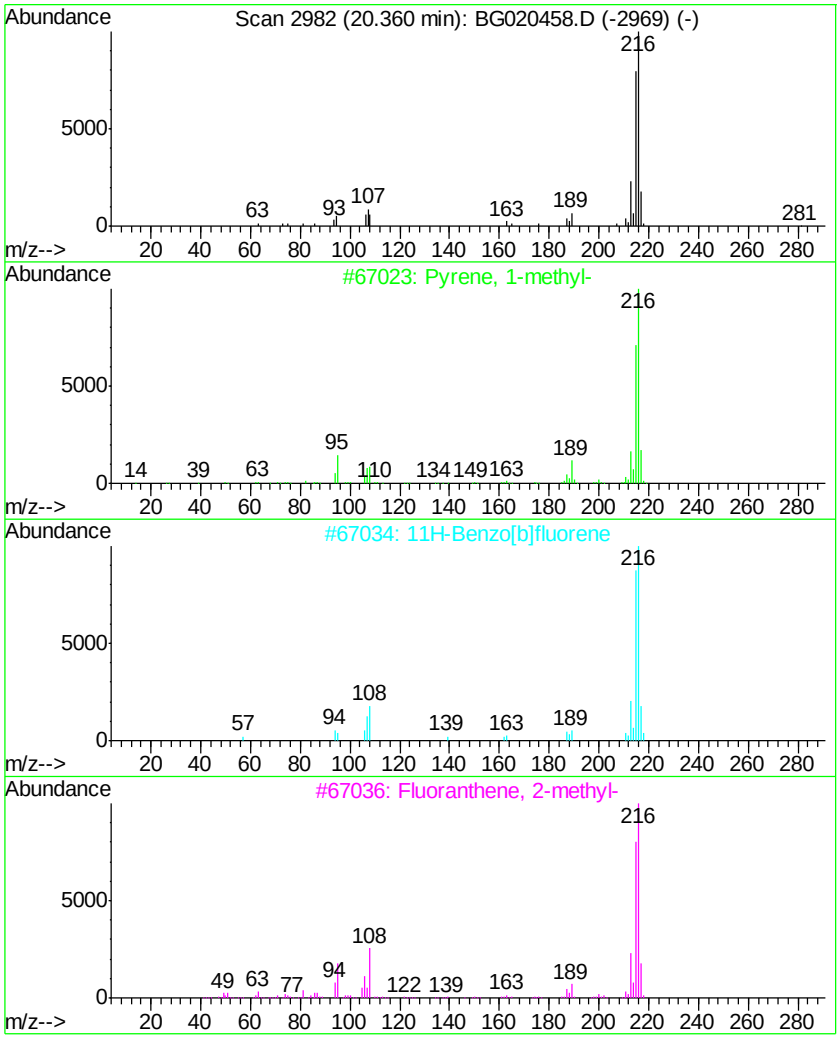
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

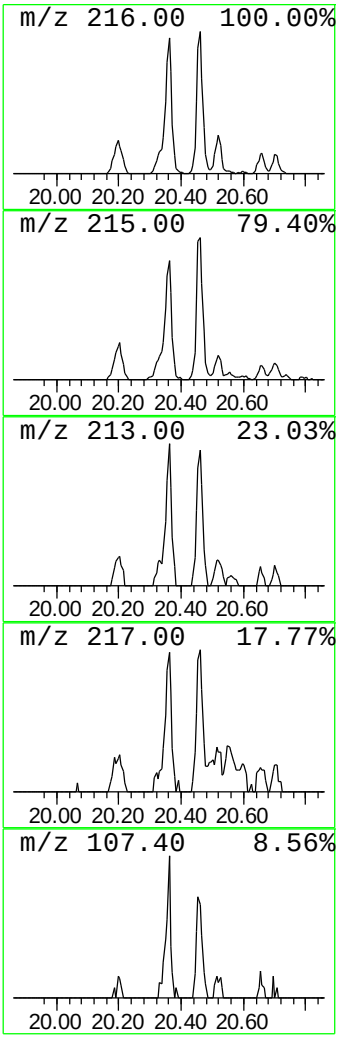
**********

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.36 | 2.60 ng/ul | 69684 | Chrysene-d12 | 21.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

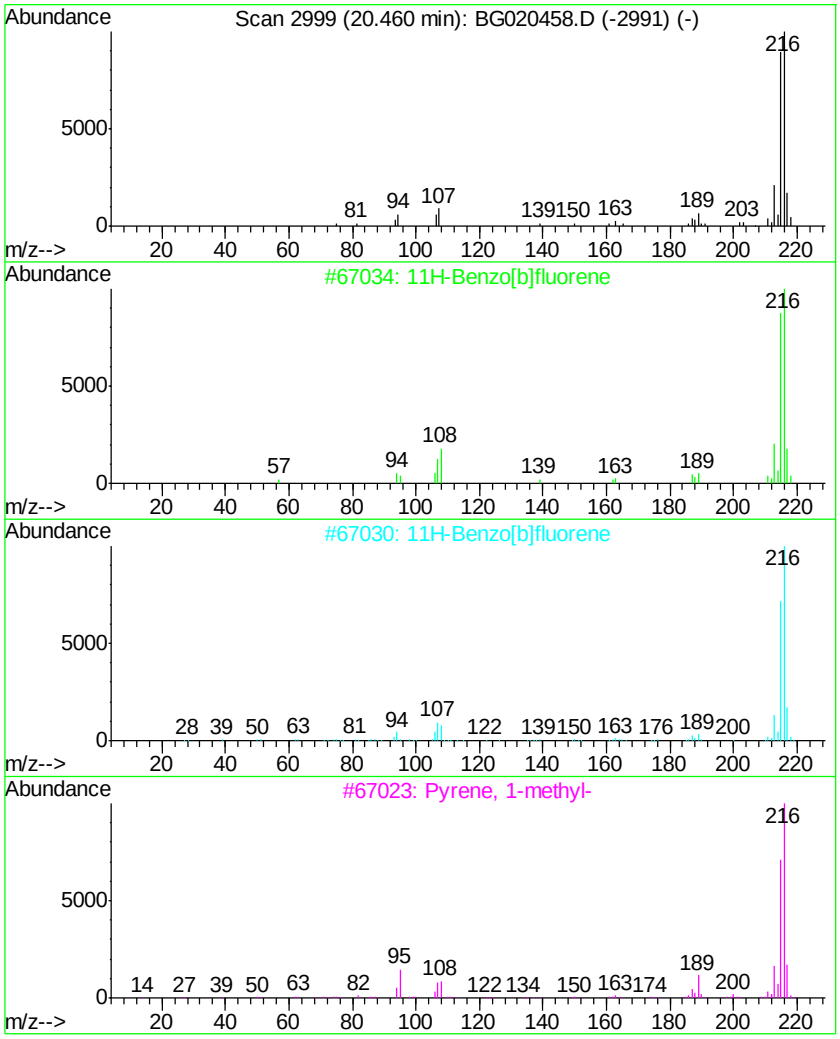
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

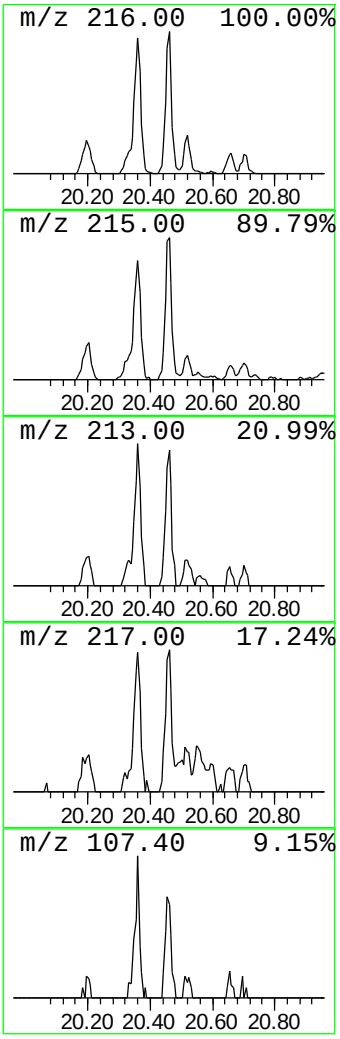
**********

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.46 | 2.43 ng/ul | 65029 | Chrysene-d12 | 21.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 96 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020458.D
Acq On : 24 Dec 2015 00:43
Operator : UM/SJ
Sample : G4767-22MEDL 30X
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D9N44MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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 |
| Benzene, 1-propynyl- | 8.63 | 3.3 | ng/ul | 14575 | 1 | 8.08 | 89042 | 20.0 |
| Naphthalene, 1-me... | 12.77 | 11.1 | ng/ul | 78326 | 2 | 10.90 | 141808 | 20.0 |
| Naphthalene, 1,6-... | 13.89 | 3.1 | ng/ul | 32617 | 3 | 14.71 | 209648 | 20.0 |
| Naphthalene, 2,6-... | 14.04 | 3.2 | ng/ul | 33860 | 3 | 14.71 | 209648 | 20.0 |
| Naphthalene, 2,3-... | 14.09 | 2.4 | ng/ul | 24854 | 3 | 14.71 | 209648 | 20.0 |
| 1,1'-Biphenyl, 2-... | 15.92 | 3.2 | ng/ul | 34001 | 3 | 14.71 | 209648 | 20.0 |
| [1,1'-Biphenyl]-4... | 16.05 | 3.5 | ng/ul | 36761 | 3 | 14.71 | 209648 | 20.0 |
| 2,4,6-Cycloheptat... | 16.19 | 3.5 | ng/ul | 54839 | 4 | 17.46 | 314447 | 20.0 |
| Dibenzothiophene | 17.28 | 4.1 | ng/ul | 65055 | 4 | 17.46 | 314447 | 20.0 |
| Phenanthrene, 1-m... | 18.33 | 3.5 | ng/ul | 54440 | 4 | 17.46 | 314447 | 20.0 |
| 4H-Cyclopenta[def... | 18.53 | 8.4 | ng/ul | 131662 | 4 | 17.46 | 314447 | 20.0 |
| Naphthalene, 2-ph... | 18.83 | 2.8 | ng/ul | 44431 | 4 | 17.46 | 314447 | 20.0 |
| Pyrene, 1-methyl- | 20.36 | 2.6 | ng/ul | 69684 | 5 | 21.74 | 535197 | 20.0 |
| 11H-Benzo[b]fluorene | 20.46 | 2.4 | ng/ul | 65029 | 5 | 21.74 | 535197 | 20.0 |