LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

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-BG073115.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 | 3.312 | 100 | 106 | 113 | rBV | 36027 | 48870 | 1.76% | 0.224% |
| 2 | 3.706 | 168 | 173 | 178 | rVV | 39940 | 54058 | 1.95% | 0.248% |
| 3 | 5.010 | 388 | 395 | 402 | rVB | 39378 | 59049 | 2.13% | 0.271% |
| 4 | 5.139 | 410 | 417 | 426 | rBV | 96221 | 220897 | 7.96% | 1.014% |
| 5 | 5.504 | 473 | 479 | 485 | rVB | 51909 | 83376 | 3.00% | 0.383% |
| 6 | 5.979 | 554 | 560 | 565 | rVB3 | 12277 | 20019 | 0.72% | 0.092% |
| 7 | 6.467 | 638 | 643 | 650 | rVB2 | 43681 | 69462 | 2.50% | 0.319% |
| 8 | 6.579 | 657 | 662 | 667 | rBV | 52791 | 71145 | 2.56% | 0.326% |
| 9 | 6.632 | 667 | 671 | 675 | rBV | 35616 | 54025 | 1.95% | 0.248% |
| 10 | 6.685 | 675 | 680 | 684 | rBV | 96255 | 156009 | 5.62% | 0.716% |
| 11 | 6.826 | 696 | 704 | 709 | rBV | 73636 | 116387 | 4.19% | 0.534% |
| 12 | 6.873 | 709 | 712 | 718 | rVV2 | 27459 | 42136 | 1.52% | 0.193% |
| 13 | 7.025 | 732 | 738 | 745 | rBV | 107474 | 168570 | 6.07% | 0.774% |
| 14 | 7.131 | 750 | 756 | 762 | rVB | 143600 | 227142 | 8.18% | 1.042% |
| 15 | 7.484 | 809 | 816 | 822 | rBV | 222590 | 344272 | 12.40% | 1.580% |
| 16 | 7.595 | 831 | 835 | 843 | rVB2 | 19744 | 37228 | 1.34% | 0.171% |
| 17 | 7.854 | 873 | 879 | 883 | rBV | 17628 | 28619 | 1.03% | 0.131% |
| 18 | 7.977 | 895 | 900 | 903 | rBV2 | 25010 | 37186 | 1.34% | 0.171% |
| 19 | 8.030 | 905 | 909 | 914 | rVB2 | 16148 | 24237 | 0.87% | 0.111% |
| 20 | 8.124 | 919 | 925 | 931 | rBV2 | 46514 | 74208 | 2.67% | 0.341% |
| 21 | 8.212 | 935 | 940 | 947 | rVB | 137492 | 205404 | 7.40% | 0.943% |
| 22 | 8.435 | 974 | 978 | 982 | rBV2 | 10949 | 17596 | 0.63% | 0.081% |
| 23 | 8.488 | 982 | 987 | 996 | rVB | 13375 | 21250 | 0.77% | 0.098% |
| 24 | 8.588 | 998 | 1004 | 1008 | rVV | 53717 | 81143 | 2.92% | 0.372% |
| 25 | 8.641 | 1008 | 1013 | 1023 | rVV | 100296 | 165458 | 5.96% | 0.759% |
| 26 | 9.111 | 1088 | 1093 | 1097 | rVV | 29869 | 46297 | 1.67% | 0.212% |
| 27 | 9.164 | 1097 | 1102 | 1110 | rVB2 | 18526 | 32233 | 1.16% | 0.148% |
| 28 | 9.358 | 1123 | 1135 | 1141 | rBV4 | 85236 | 156674 | 5.64% | 0.719% |
| 29 | 9.669 | 1184 | 1188 | 1193 | rVB3 | 13675 | 22570 | 0.81% | 0.104% |
| 30 | 9.904 | 1223 | 1228 | 1234 | rVV2 | 145054 | 235946 | 8.50% | 1.083% |
| 31 | 10.269 | 1282 | 1290 | 1295 | rBV | 324248 | 522075 | 18.81% | 2.396% |
| 32 | 10.316 | 1295 | 1298 | 1305 | rVV3 | 25006 | 44113 | 1.59% | 0.202% |
| 33 | 10.415 | 1309 | 1315 | 1326 | rVV2 | 80533 | 156973 | 5.66% | 0.720% |
| 34 | 11.185 | 1439 | 1446 | 1453 | rBV5 | 20397 | 39146 | 1.41% | 0.180% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

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-BG073115.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.943 | 1569 | 1575 | 1581 | rVV2 | 17564 | 30529 | 1.10% | 0.140% |
| 36 | 12.172 | 1608 | 1614 | 1620 | rBV2 | 16512 | 27660 | 1.00% | 0.127% |
| 37 | 12.754 | 1711 | 1713 | 1718 | rVB4 | 9900 | 14375 | 0.52% | 0.066% |
| 38 | 12.983 | 1749 | 1752 | 1757 | rVV4 | 10775 | 15585 | 0.56% | 0.072% |
| 39 | 13.471 | 1830 | 1835 | 1841 | rVV4 | 16629 | 31302 | 1.13% | 0.144% |
| 40 | 13.529 | 1841 | 1845 | 1848 | rVV2 | 11875 | 16901 | 0.61% | 0.078% |
| 41 | 13.576 | 1848 | 1853 | 1857 | rVV | 253999 | 352697 | 12.71% | 1.618% |
| 42 | 13.623 | 1857 | 1861 | 1869 | rVB | 131180 | 191544 | 6.90% | 0.879% |
| 43 | 13.847 | 1893 | 1899 | 1911 | rVB | 233284 | 354336 | 12.77% | 1.626% |
| 44 | 14.076 | 1933 | 1938 | 1943 | rBV8 | 10546 | 19372 | 0.70% | 0.089% |
| 45 | 14.158 | 1946 | 1952 | 1959 | rVV2 | 438621 | 687440 | 24.77% | 3.154% |
| 46 | 14.223 | 1959 | 1963 | 1972 | rVV | 71552 | 112820 | 4.06% | 0.518% |
| 47 | 14.405 | 1984 | 1994 | 2000 | rBV4 | 64936 | 110004 | 3.96% | 0.505% |
| 48 | 14.475 | 2000 | 2006 | 2011 | rVV7 | 14969 | 29333 | 1.06% | 0.135% |
| 49 | 14.564 | 2014 | 2021 | 2026 | rVV2 | 40077 | 78154 | 2.82% | 0.359% |
| 50 | 14.699 | 2040 | 2044 | 2049 | rBV6 | 11736 | 16840 | 0.61% | 0.077% |
| 51 | 14.787 | 2054 | 2059 | 2064 | rBV7 | 12964 | 25354 | 0.91% | 0.116% |
| 52 | 14.840 | 2064 | 2068 | 2072 | rBV6 | 10658 | 15683 | 0.57% | 0.072% |
| 53 | 14.945 | 2082 | 2086 | 2088 | rBV5 | 11483 | 18358 | 0.66% | 0.084% |
| 54 | 15.034 | 2098 | 2101 | 2107 | rVB6 | 15662 | 18985 | 0.68% | 0.087% |
| 55 | 15.163 | 2117 | 2123 | 2128 | rVV | 252345 | 390398 | 14.07% | 1.791% |
| 56 | 15.216 | 2128 | 2132 | 2136 | rVB | 74235 | 102218 | 3.68% | 0.469% |
| 57 | 15.380 | 2157 | 2160 | 2164 | rVB6 | 13523 | 15278 | 0.55% | 0.070% |
| 58 | 15.439 | 2165 | 2170 | 2173 | rBV6 | 15462 | 24335 | 0.88% | 0.112% |
| 59 | 15.515 | 2178 | 2183 | 2186 | rBV2 | 23234 | 29716 | 1.07% | 0.136% |
| 60 | 15.662 | 2202 | 2208 | 2214 | rVB4 | 24669 | 51946 | 1.87% | 0.238% |
| 61 | 15.897 | 2244 | 2248 | 2250 | rBV5 | 25898 | 38696 | 1.39% | 0.178% |
| 62 | 16.197 | 2294 | 2299 | 2301 | rBV5 | 21429 | 33133 | 1.19% | 0.152% |
| 63 | 16.267 | 2309 | 2311 | 2317 | rBV7 | 12755 | 21101 | 0.76% | 0.097% |
| 64 | 16.414 | 2334 | 2336 | 2340 | rBV5 | 11889 | 14698 | 0.53% | 0.067% |
| 65 | 16.573 | 2360 | 2363 | 2368 | rVB4 | 22728 | 24012 | 0.87% | 0.110% |
| 66 | 16.690 | 2381 | 2383 | 2387 | rVV5 | 18801 | 26196 | 0.94% | 0.120% |
| 67 | 16.737 | 2388 | 2391 | 2396 | rVB2 | 43922 | 60044 | 2.16% | 0.276% |
| 68 | 16.920 | 2416 | 2422 | 2425 | rBV | 400137 | 569470 | 20.52% | 2.613% |
| 69 | 16.961 | 2425 | 2429 | 2434 | rVV | 534439 | 727523 | 26.21% | 3.338% |
| 70 | 17.014 | 2434 | 2438 | 2442 | rVV | 213912 | 325116 | 11.71% | 1.492% |
| 71 | 17.049 | 2442 | 2444 | 2449 | rVV | 121869 | 151282 | 5.45% | 0.694% |

LSC Area Percent Report

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Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

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-BG073115.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.108 | 2450 | 2454 | 2460 | rBV4 | 31432 | 54116 | 1.95% | 0.248% |
| 73 | 17.325 | 2488 | 2491 | 2500 | rVB | 49353 | 80820 | 2.91% | 0.371% |
| 74 | 17.437 | 2507 | 2510 | 2513 | rBV4 | 23686 | 28942 | 1.04% | 0.133% |
| 75 | 17.795 | 2568 | 2571 | 2574 | rVB2 | 43659 | 53798 | 1.94% | 0.247% |
| 76 | 17.842 | 2575 | 2579 | 2587 | rVV2 | 138056 | 209658 | 7.55% | 0.962% |
| 77 | 17.901 | 2587 | 2589 | 2591 | rVV | 33351 | 35632 | 1.28% | 0.164% |
| 78 | 17.924 | 2591 | 2593 | 2598 | rVV3 | 48378 | 59660 | 2.15% | 0.274% |
| 79 | 17.995 | 2600 | 2605 | 2608 | rVV3 | 121391 | 209418 | 7.54% | 0.961% |
| 80 | 18.036 | 2608 | 2612 | 2618 | rVB | 263931 | 357837 | 12.89% | 1.642% |
| 81 | 18.212 | 2636 | 2642 | 2650 | rBV | 1531574 | 1999632 | 72.04% | 9.176% |
| 82 | 18.306 | 2655 | 2658 | 2662 | rVV | 44070 | 68922 | 2.48% | 0.316% |
| 83 | 18.347 | 2662 | 2665 | 2669 | rVV3 | 48903 | 72529 | 2.61% | 0.333% |
| 84 | 18.406 | 2669 | 2675 | 2683 | rVV | 2069678 | 2775623 | 100.00% | 12.737% |
| 85 | 18.547 | 2696 | 2699 | 2703 | rVB2 | 136617 | 173959 | 6.27% | 0.798% |
| 86 | 18.688 | 2719 | 2723 | 2727 | rBV | 149226 | 176767 | 6.37% | 0.811% |
| 87 | 18.994 | 2770 | 2775 | 2780 | rBV | 714769 | 885941 | 31.92% | 4.065% |
| 88 | 19.052 | 2781 | 2785 | 2790 | rBV2 | 171532 | 220185 | 7.93% | 1.010% |
| 89 | 19.329 | 2828 | 2832 | 2834 | rBV2 | 295015 | 403720 | 14.55% | 1.853% |
| 90 | 19.358 | 2834 | 2837 | 2847 | rVB | 579051 | 746560 | 26.90% | 3.426% |
| 91 | 21.126 | 3132 | 3138 | 3142 | rBV2 | 612724 | 1120024 | 40.35% | 5.139% |
| 92 | 21.162 | 3142 | 3144 | 3153 | rVB | 309439 | 420752 | 15.16% | 1.931% |
| 93 | 21.632 | 3221 | 3224 | 3227 | rBV | 234956 | 255323 | 9.20% | 1.172% |
| 94 | 21.714 | 3236 | 3238 | 3244 | rVB2 | 212674 | 251106 | 9.05% | 1.152% |
| 95 | 21.773 | 3245 | 3248 | 3252 | rBV2 | 398611 | 525584 | 18.94% | 2.412% |
| 96 | 21.926 | 3271 | 3274 | 3277 | rBV3 | 204540 | 268981 | 9.69% | 1.234% |
| 97 | 22.161 | 3312 | 3314 | 3319 | rVB2 | 197374 | 239548 | 8.63% | 1.099% |
| 98 | 22.660 | 3395 | 3399 | 3404 | rBV2 | 342468 | 607192 | 21.88% | 2.786% |
| 99 | 23.212 | 3490 | 3493 | 3502 | rVB2 | 340229 | 610168 | 21.98% | 2.800% |
| 100 | 23.318 | 3507 | 3511 | 3516 | rVB | 254764 | 423967 | 15.27% | 1.945% |

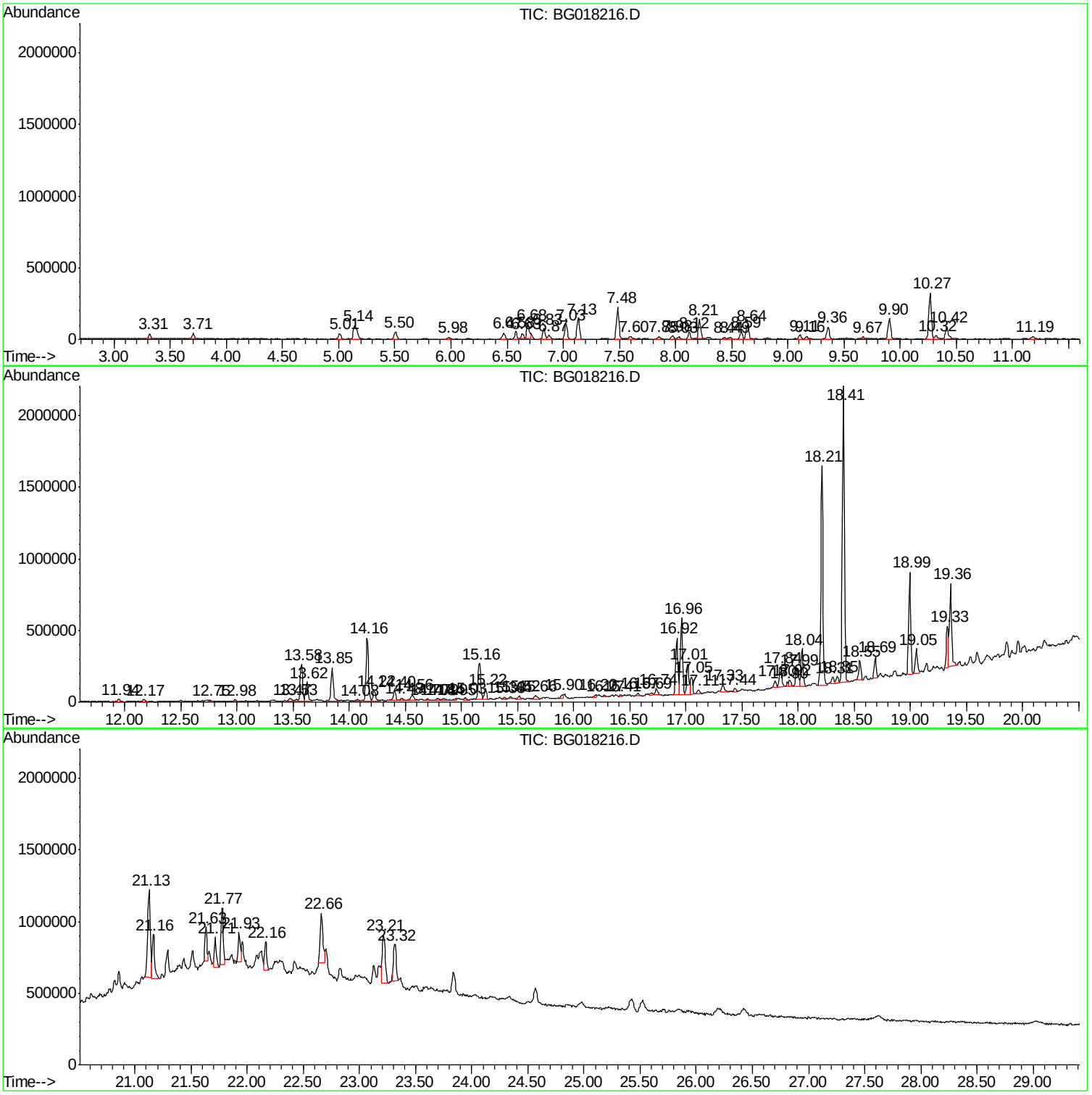
Sum of corrected areas: 21792571

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.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\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

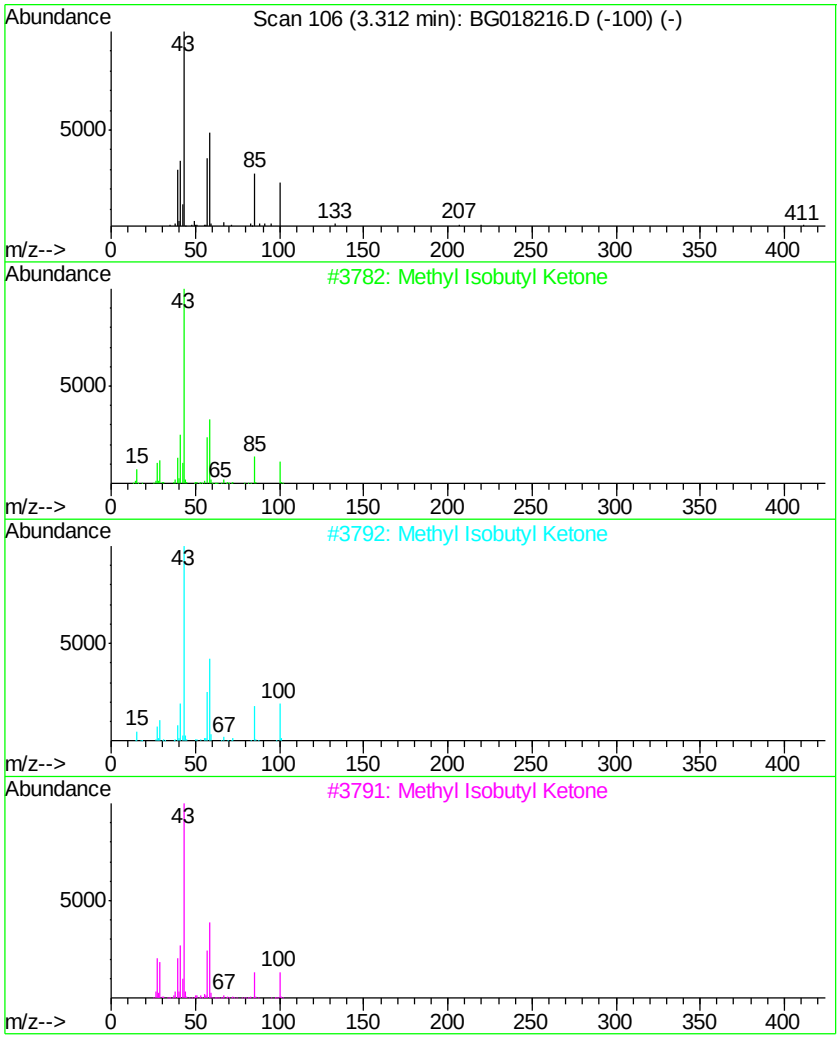
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

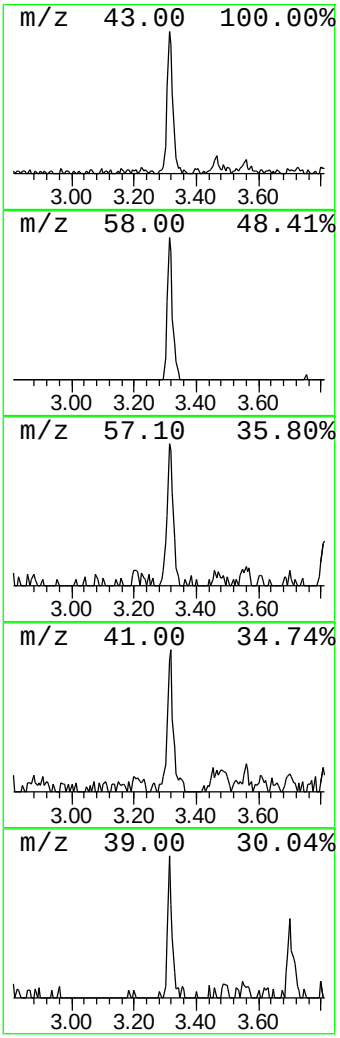
**********

Peak Number 1 Methyl Isobutyl Ketone Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.31 | 2.84 ng/ul | 48870 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 80 |
| 2 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 64 |
| 3 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 53 |
| 4 | 2,4-Pentanedione | 100 | C5H8O2 | 000123-54-6 | 43 |
| 5 | 2-Heptanone, 4-methyl- | 128 | C8H16O | 006137-06-0 | 42 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

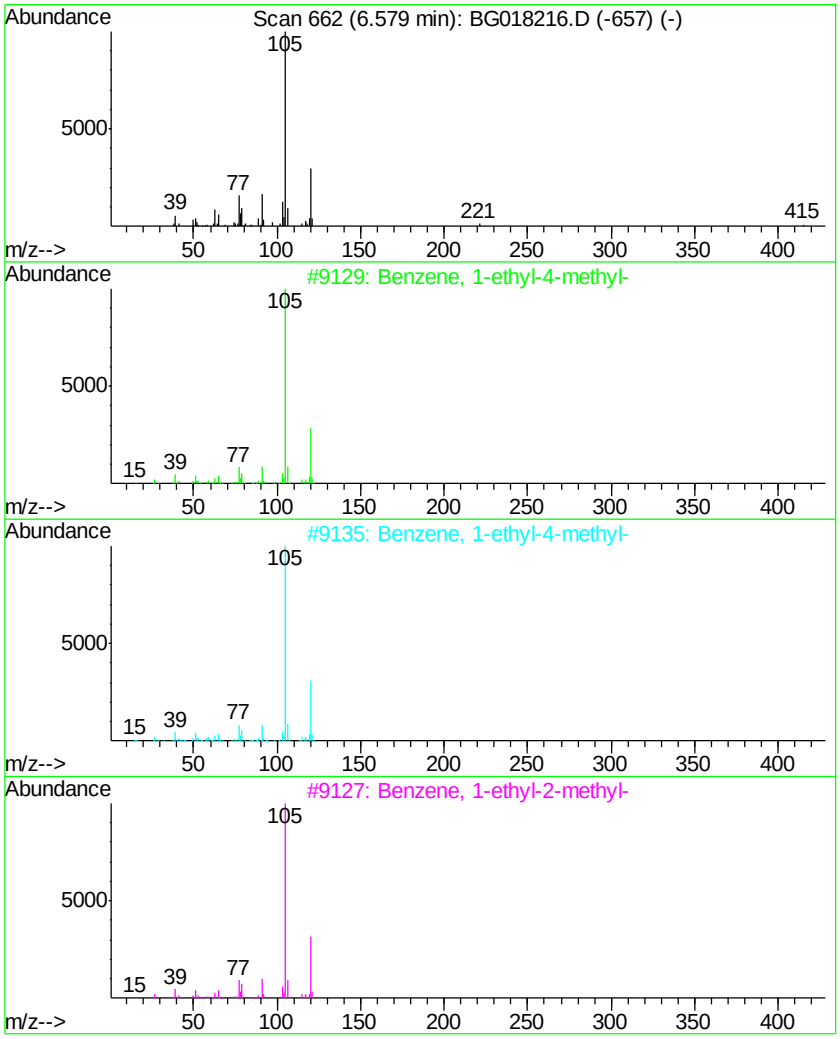
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

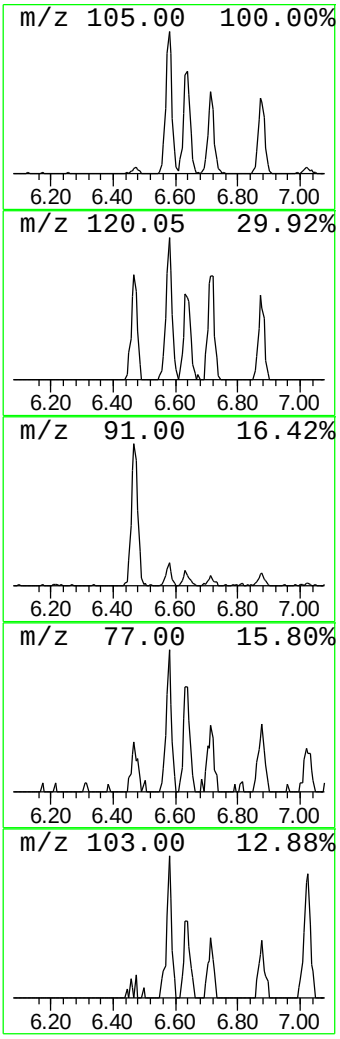
**********

Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.58 | 4.13 ng/ul | 71145 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 87 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 87 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

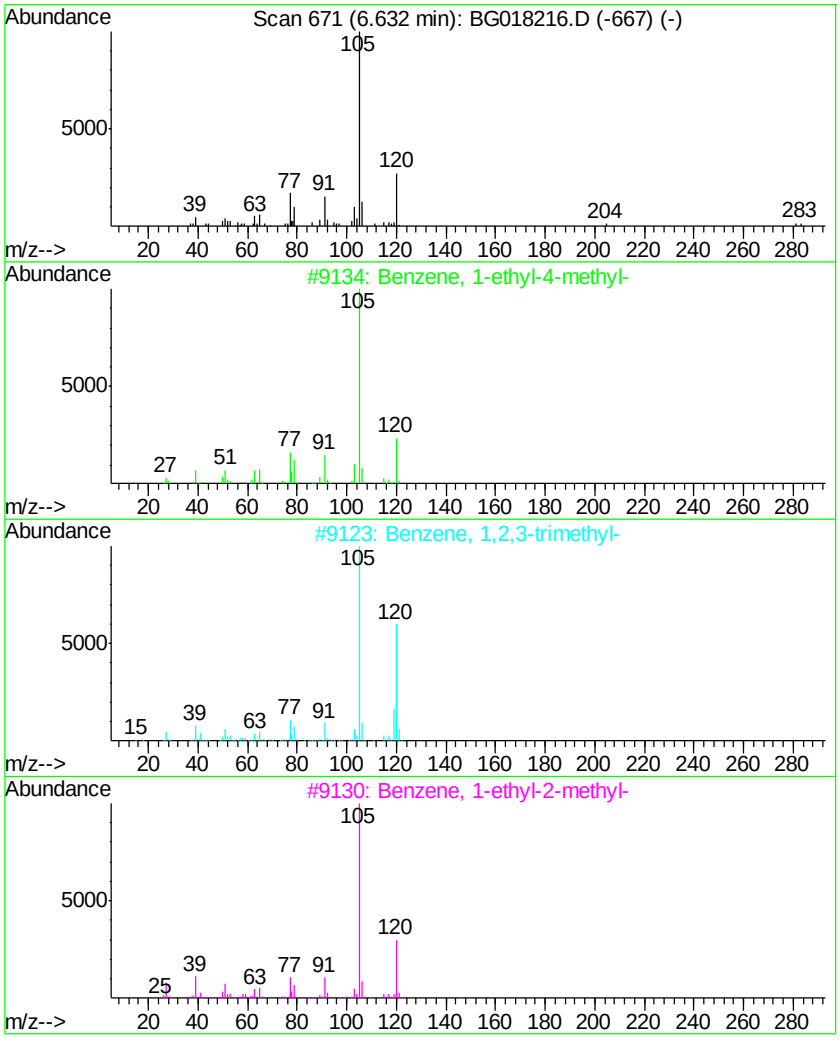
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

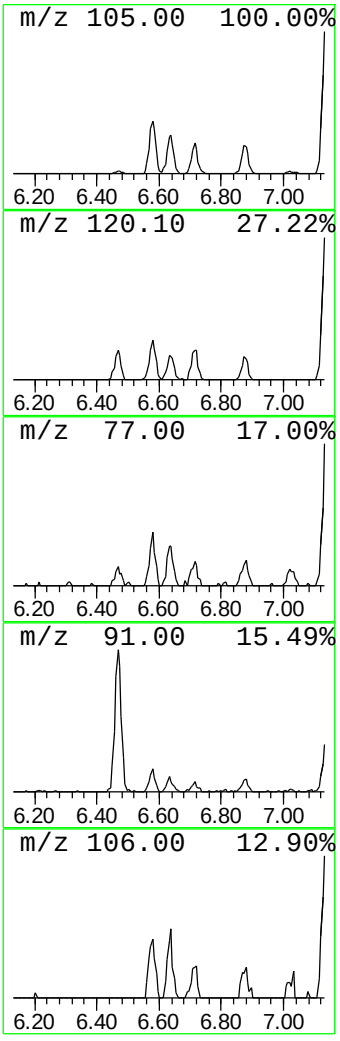
**********

Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.63 | 3.14 ng/ul | 54025 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 94 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 91 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

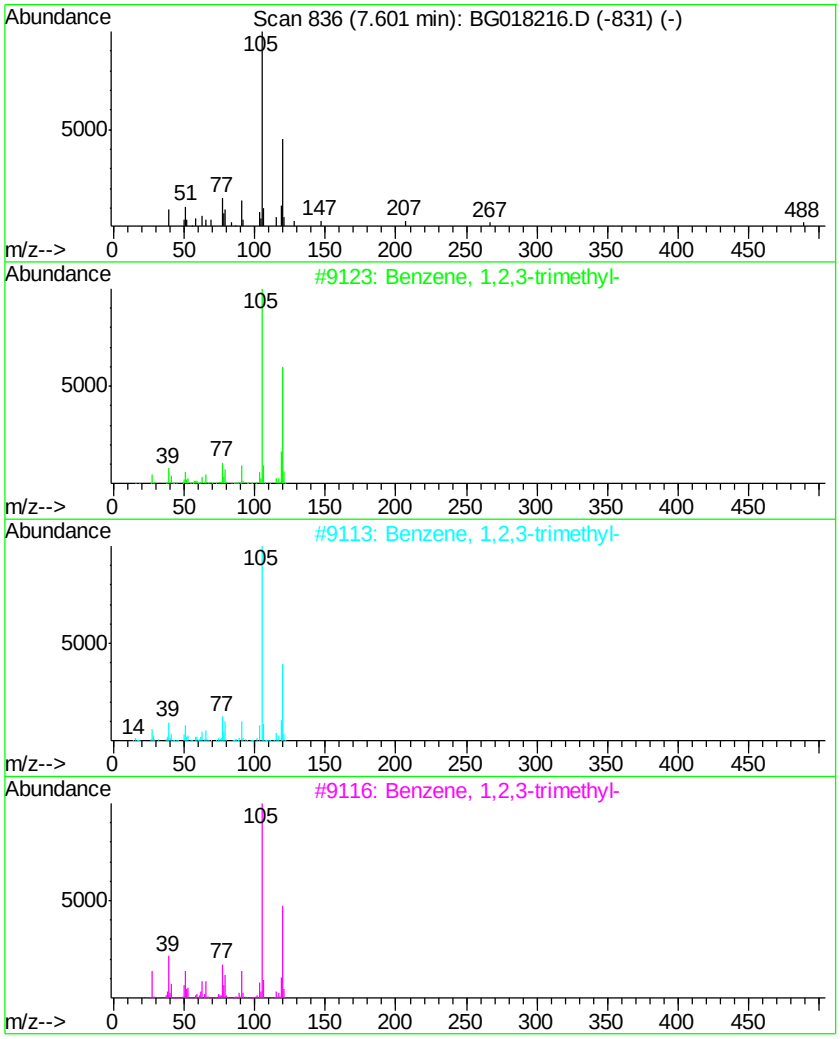
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

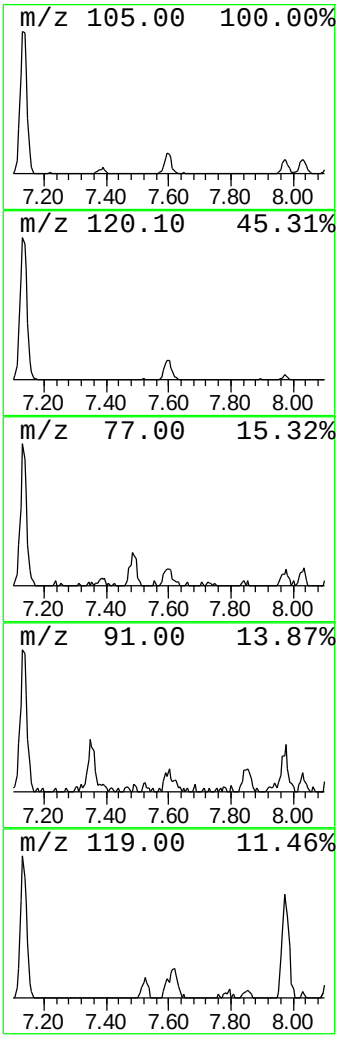
**********

Peak Number 10 1,3-Cyclopentadiene, 5-(1-m... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.60 | 2.16 ng/ul | 37228 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 87 |
| 3 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 87 |
| 4 | 1,3-Cyclopentadiene, 5-(1-methyl... | 120 | C9H12 | 003141-02-4 | 87 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

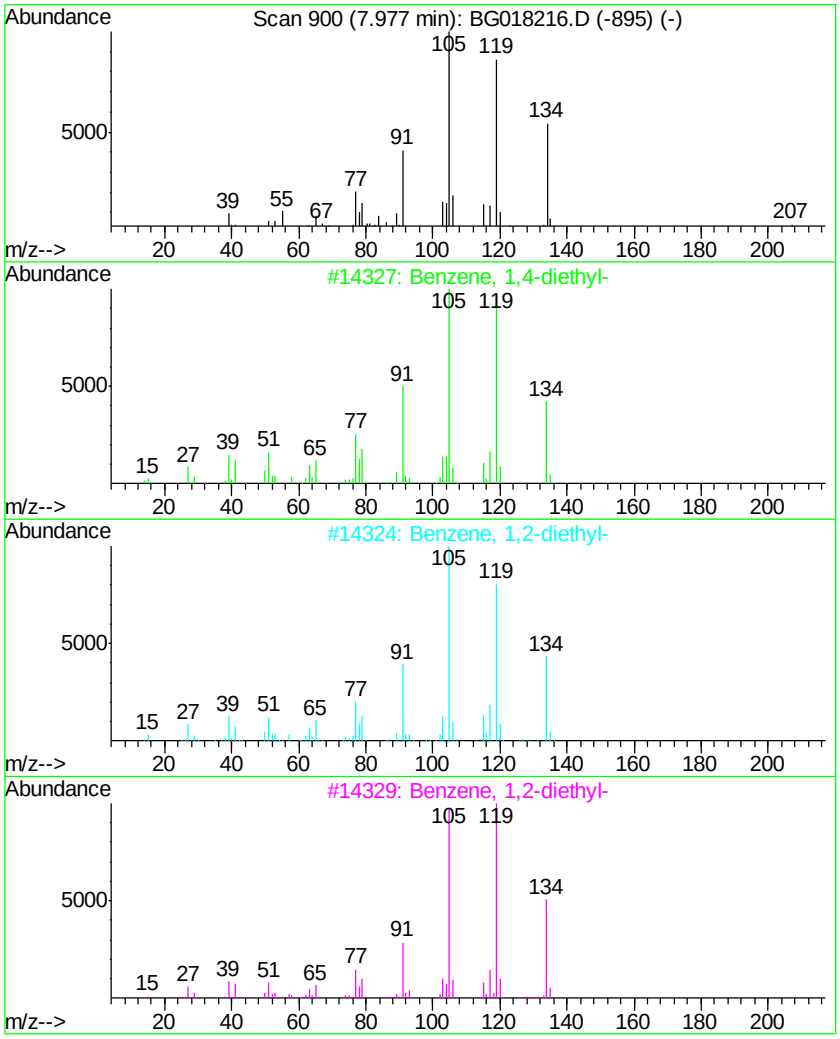
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

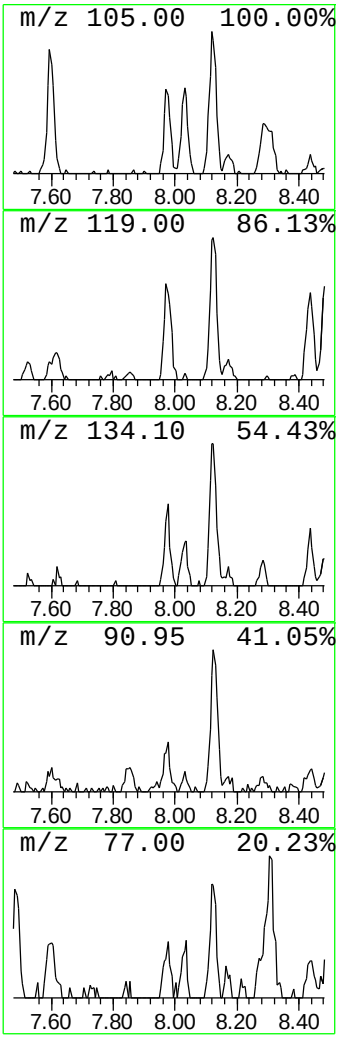
**********

Peak Number 11 Benzene, 1,4-diethyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.98 | 2.16 ng/ul | 37186 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 91 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 87 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 87 |
| 4 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 87 |
| 5 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 86 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

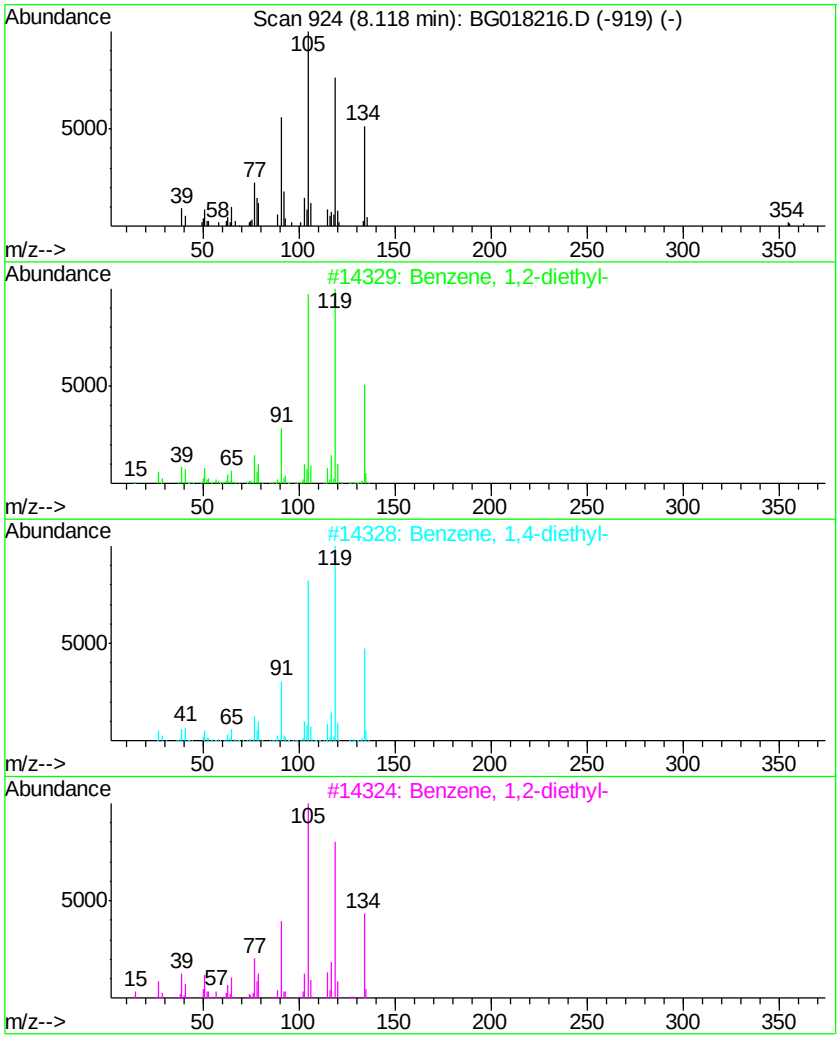
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

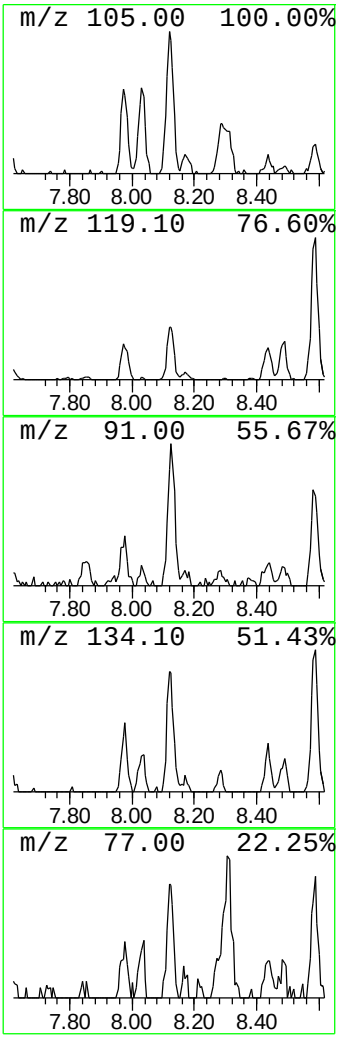
**********

Peak Number 12 Benzene, 1,2-diethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.12 | 4.31 ng/ul | 74208 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 95 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 93 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 90 |
| 4 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 90 |
| 5 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 87 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

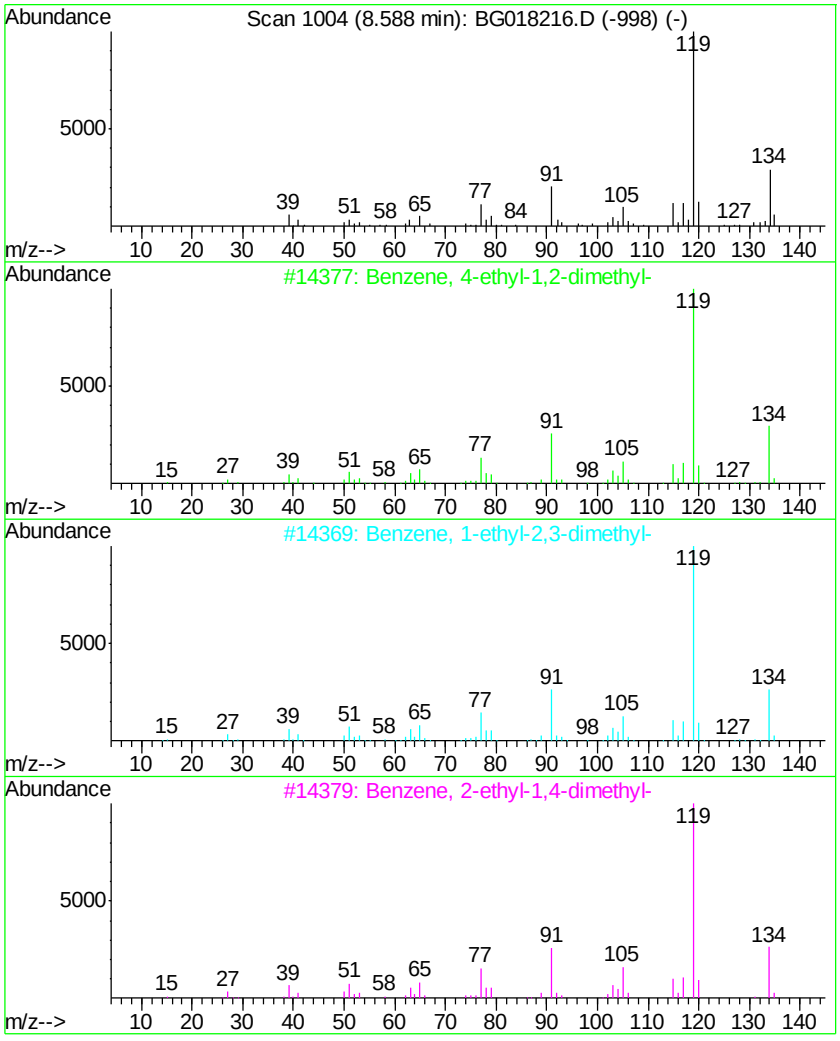
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

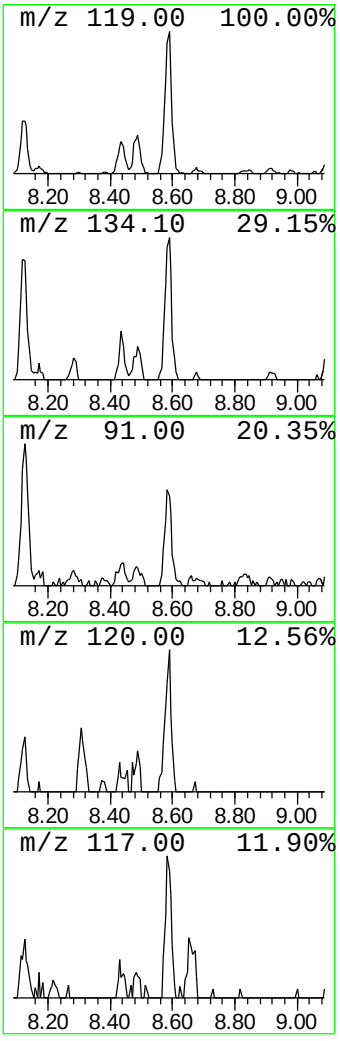
**********

Peak Number 13 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.59 | 4.71 ng/ul | 81143 | 1,4-Dichlorobenzene-d4 | 7.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 97 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 96 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 94 |
| 4 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 93 |
| 5 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 93 |



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Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

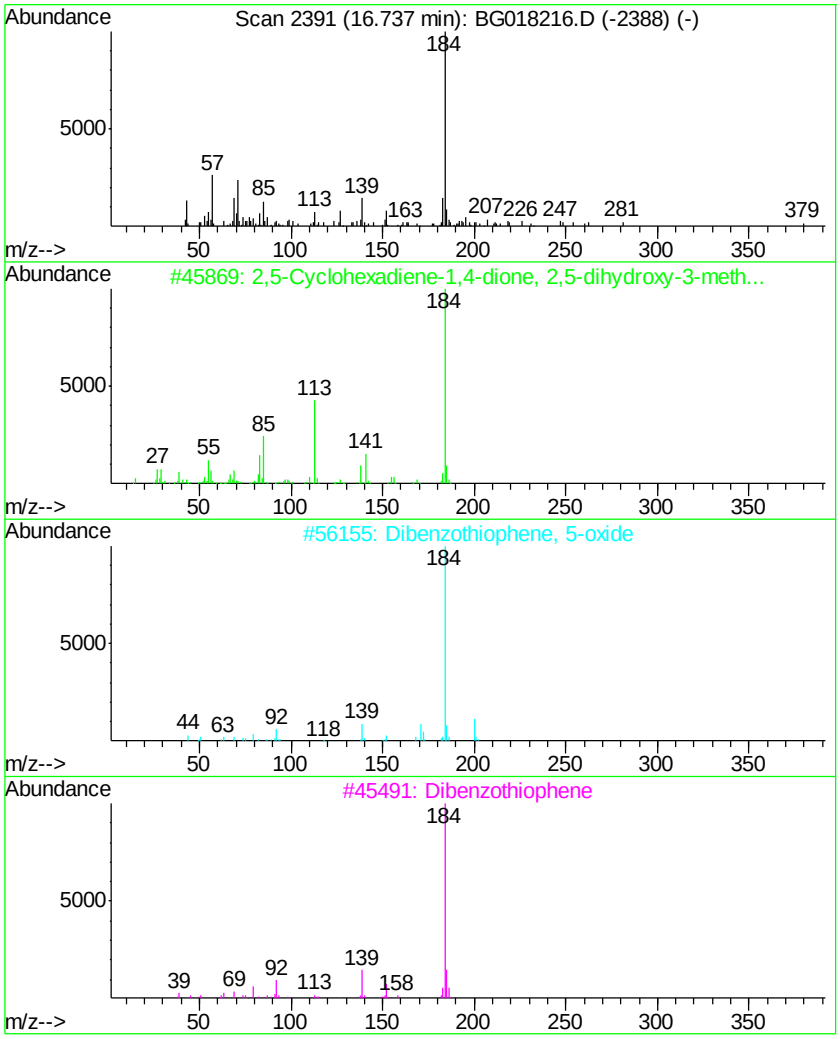
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

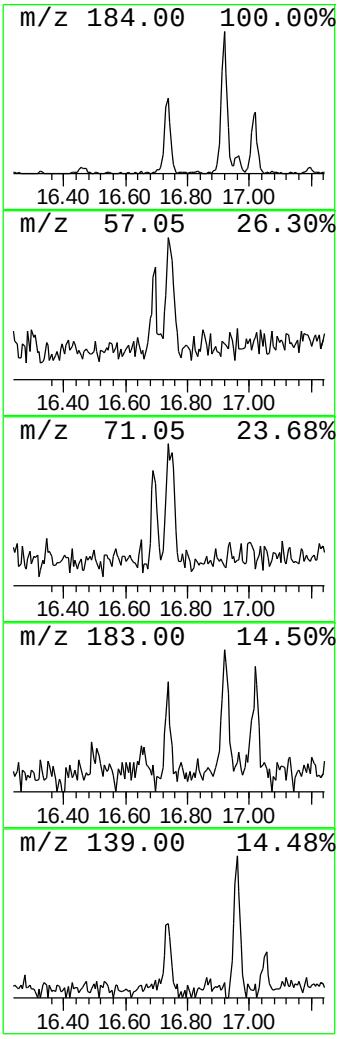
**********

Peak Number 14 2,5-Cyclohexadiene-1,4-dion... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.74 | 2.11 ng/ul | 60044 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Cyclohexadiene-1,4-dione, 2,... | 184 | C8H8O5 | 000085-23-4 | 50 |
| 2 | Dibenzothiophene, 5-oxide | 200 | C12H8OS | 001013-23-6 | 50 |
| 3 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 50 |
| 4 | 1,3,5-Trihydroxy-2,6-dinitrosobe... | 184 | C6H4N2O5 | 1000110-75-8 | 43 |
| 5 | 1-(7,7,9,9-Tetramethyl-1,4-dioxa... | 267 | C15H25NO3 | 072152-19-3 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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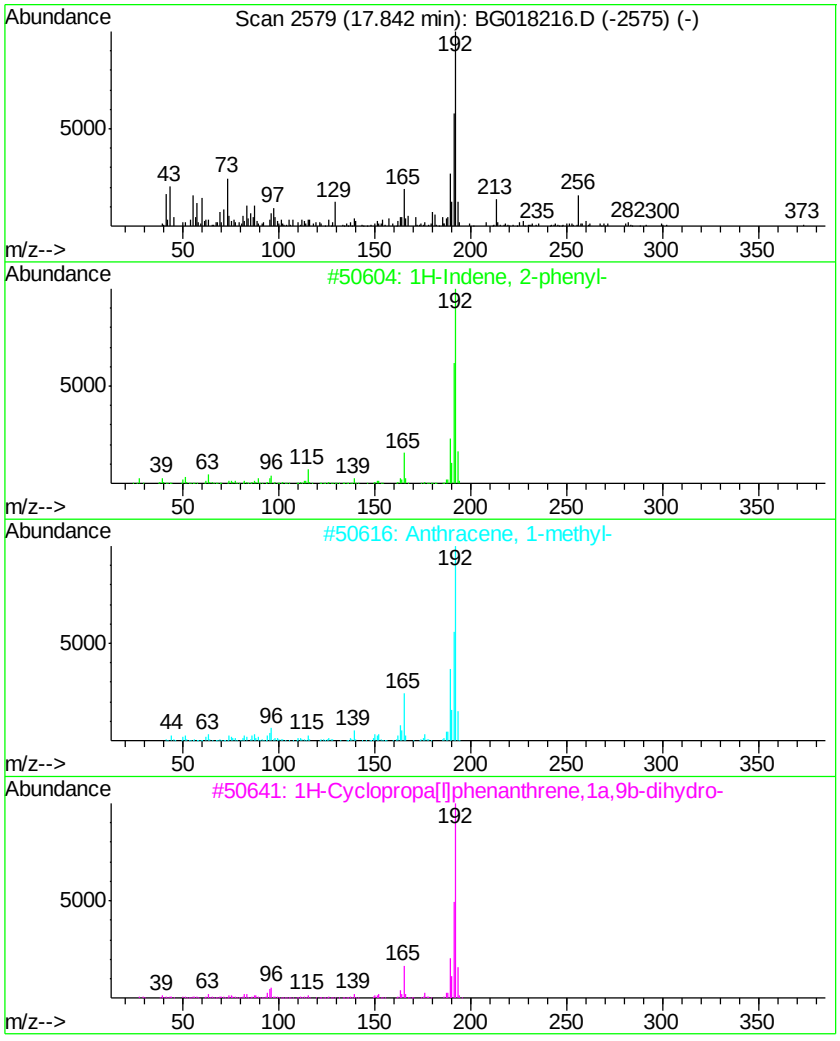
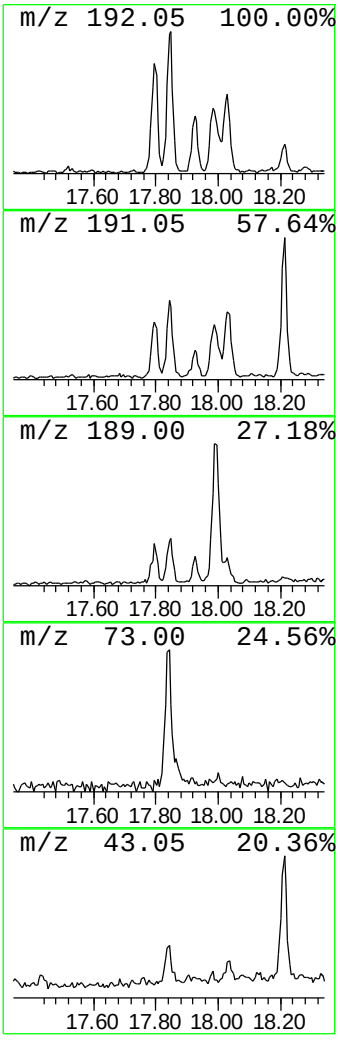
Peak Number 15 1H-Indene, 2-phenyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.84 | 7.36 ng/ul | 209658 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 83 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 83 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 83 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 78 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 70 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

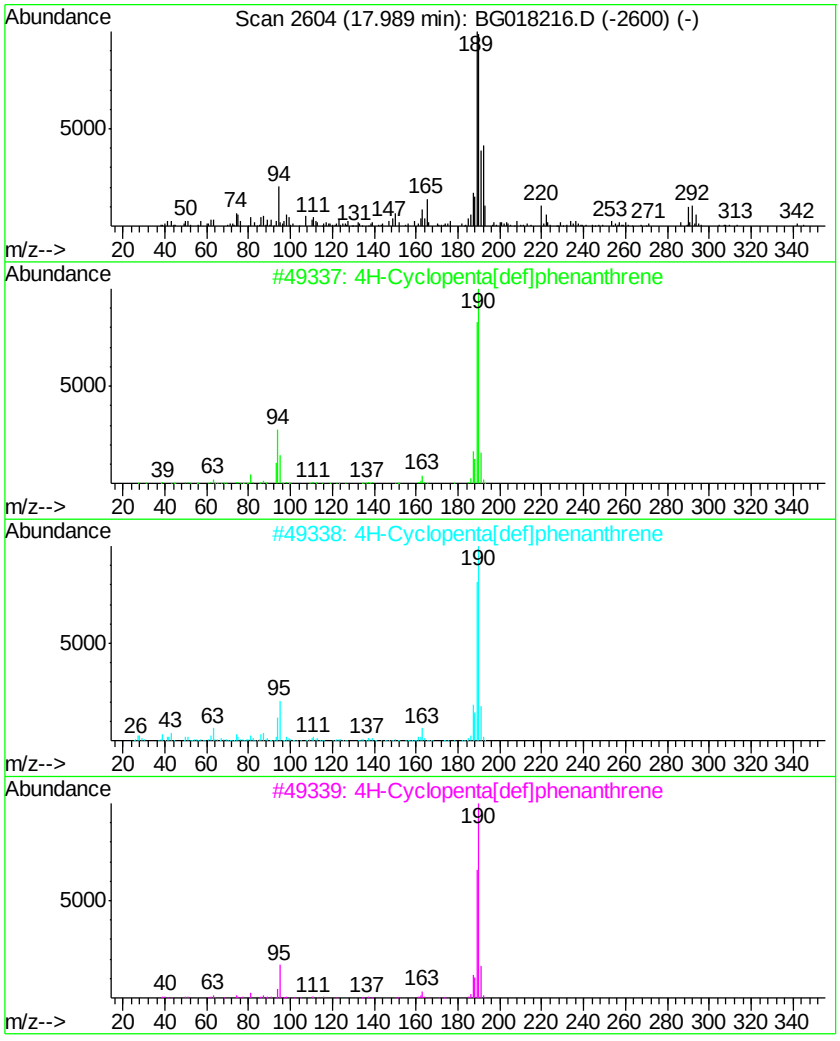
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

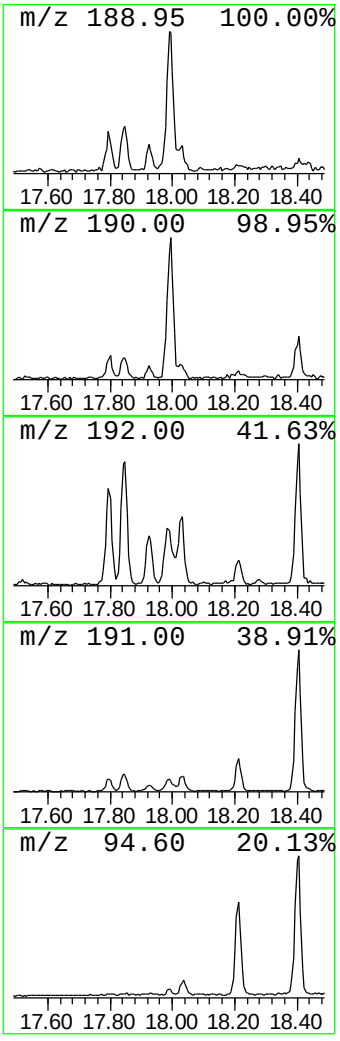
**********

Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.99 | 7.35 ng/ul | 209418 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 53 |
| 5 | 4-(4-Methyl-piperidin-1-yl)-phen... | 190 | C12H18N2 | 342013-25-6 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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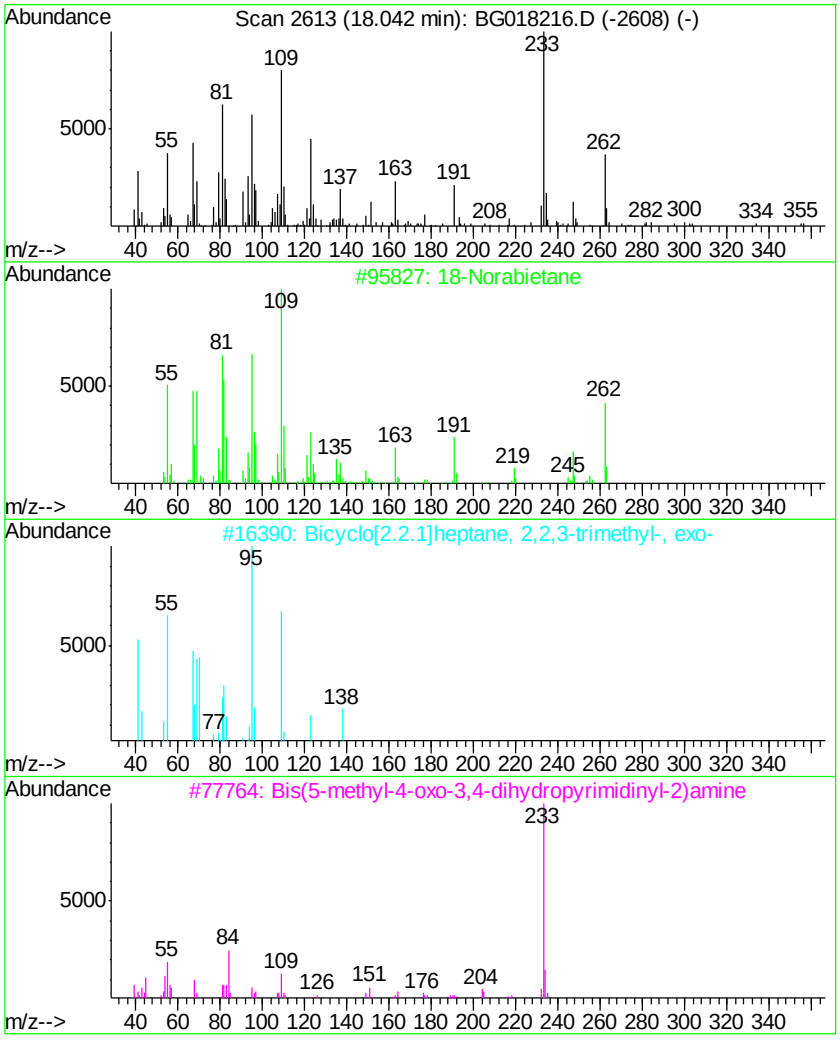
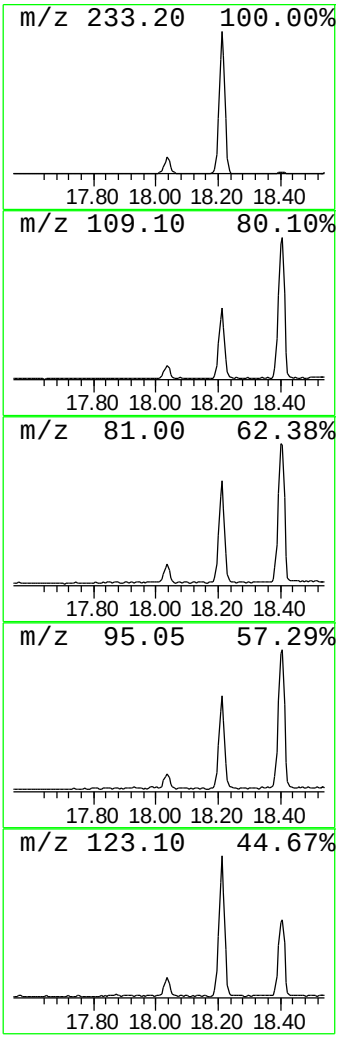
Peak Number 17 unknown-01 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.04 | 12.57 ng/ul | 357837 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 38 |
| 2 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 020536-41-8 | 27 |
| 3 | Bis(5-methyl-4-oxo-3,4-dihydropy... | 233 | C10H11N5O2 | 1000078-58-5 | 22 |
| 4 | Indole, 3-[2-(3-methylphenyl)eth... | 233 | C17H15N | 1000269-11-9 | 18 |
| 5 | 5-Hexen-1-one, 1-(1H-imidazol-4-... | 192 | C11H16N2O | 069393-41-5 | 15 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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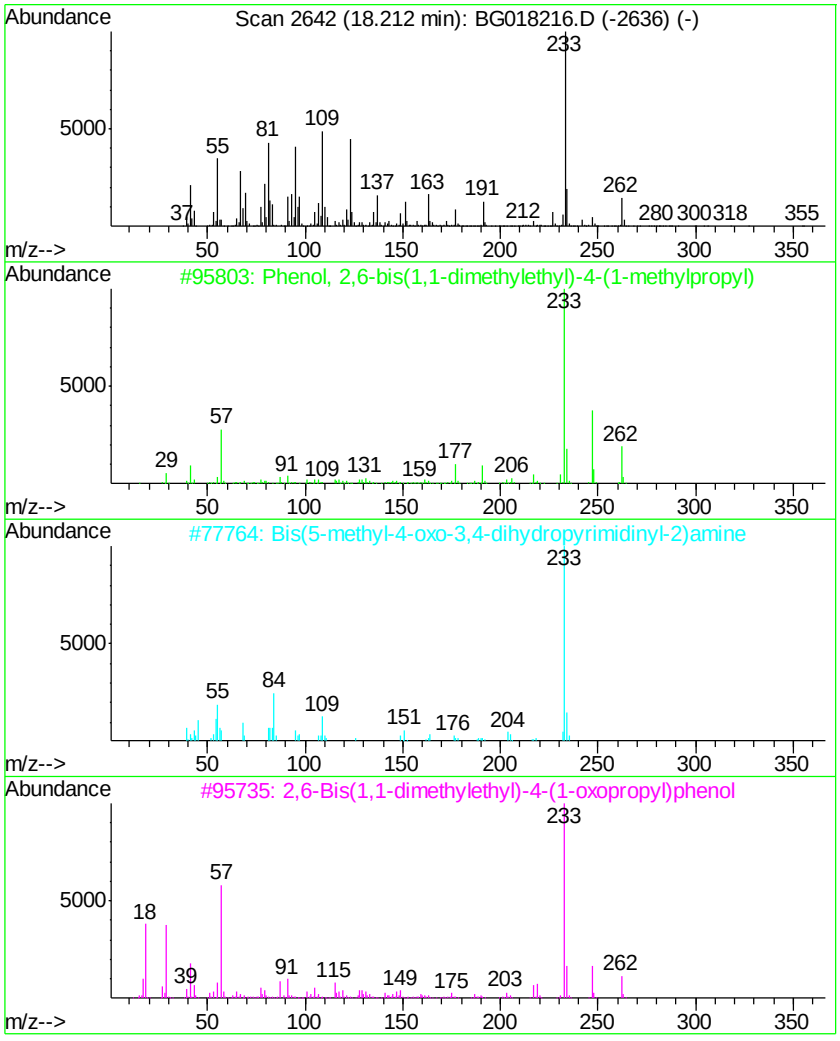
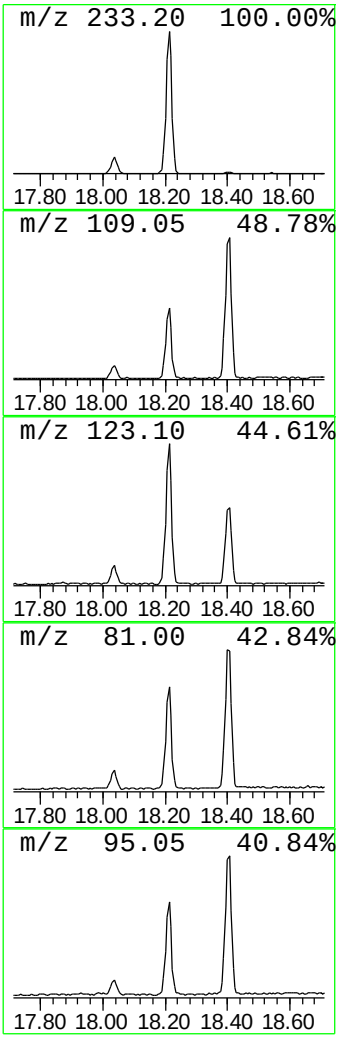
Peak Number 18 unknown-02 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.21 | 70.23 ng/ul | 1999630 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,6-bis(1,1-dimethylethy... | 262 | C18H30O | 017540-75-9 | 41 |
| 2 | Bis(5-methyl-4-oxo-3,4-dihydropy... | 233 | C10H11N5O2 | 1000078-58-5 | 32 |
| 3 | 2,6-Bis(1,1-dimethylethyl)-4-(1-... | 262 | C17H26O2 | 014035-34-8 | 30 |
| 4 | N1-(4,4-Dimethyl-1,3-thiazolan-2... | 248 | C14H20N2S | 284665-76-5 | 25 |
| 5 | 2,4,5-Trichlorophenyl p-(octylox... | 428 | C21H23Cl3O3 | 079404-93-6 | 22 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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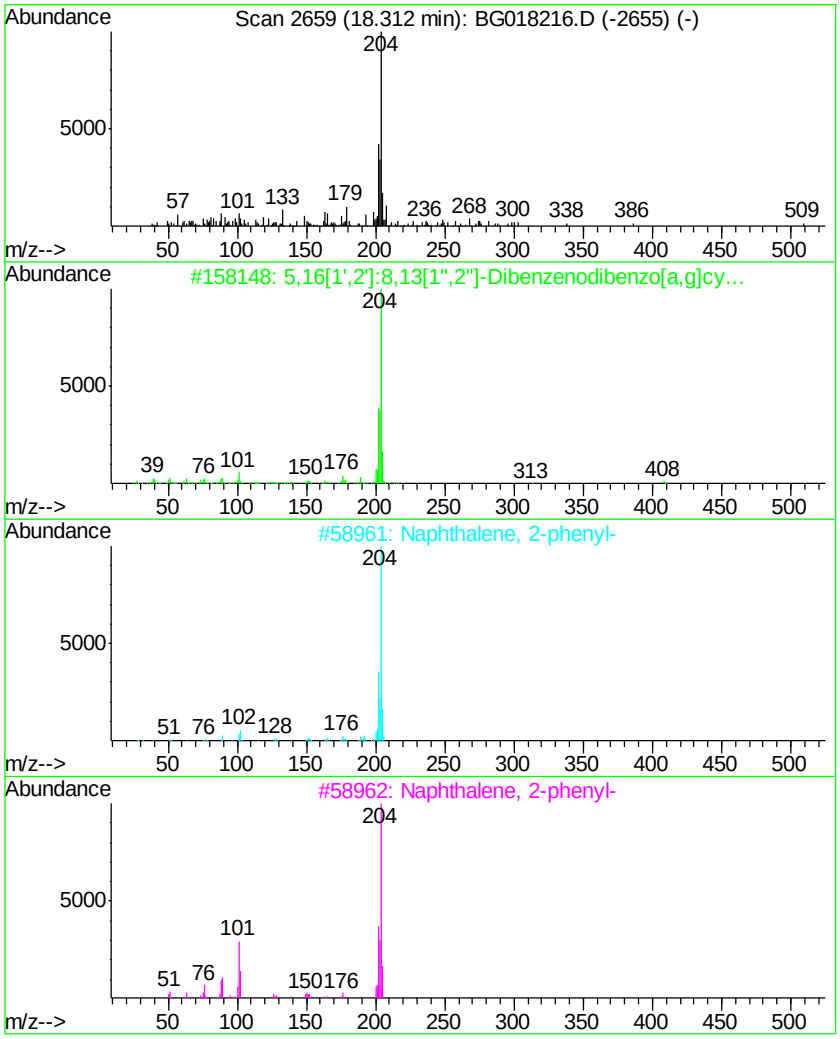
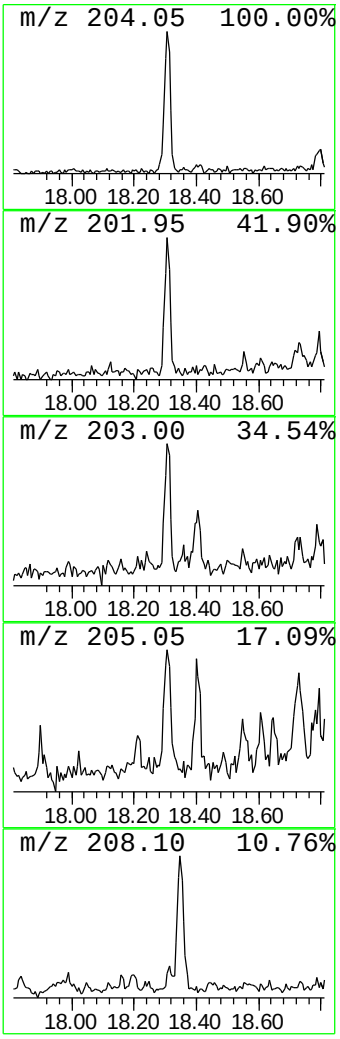
Peak Number 19 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.31 | 2.42 ng/ul | 68922 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 72 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 60 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 53 |
| 4 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 53 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 53 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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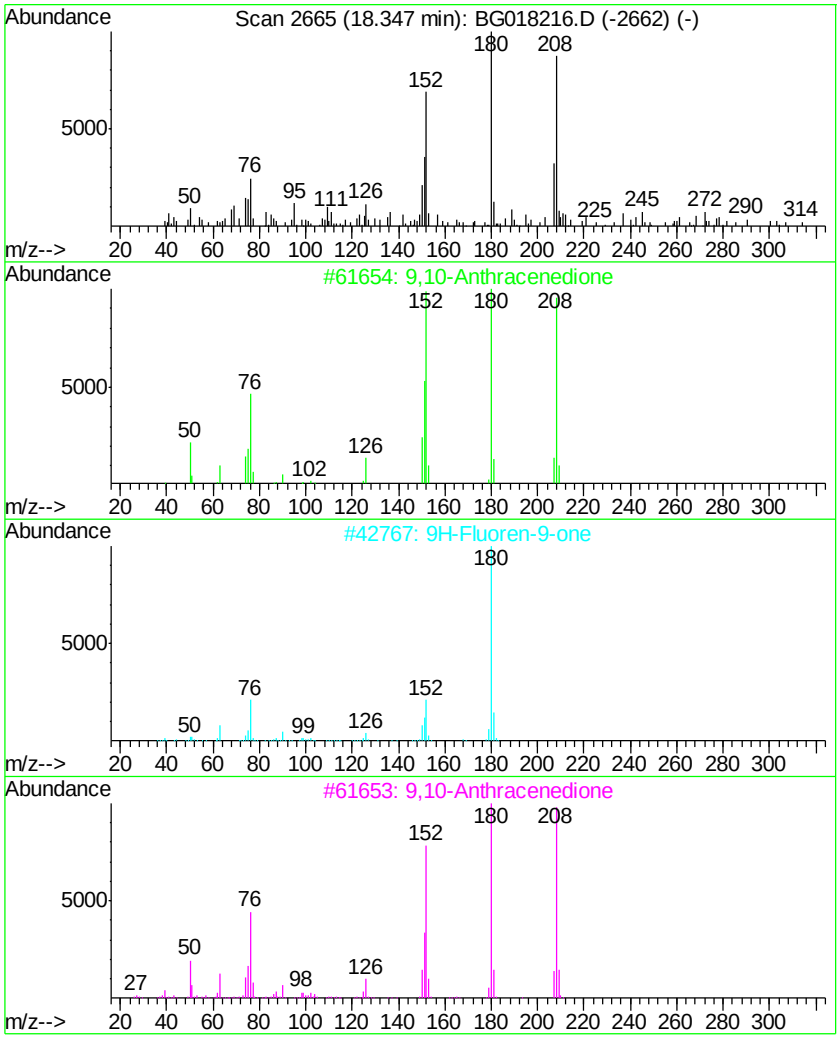
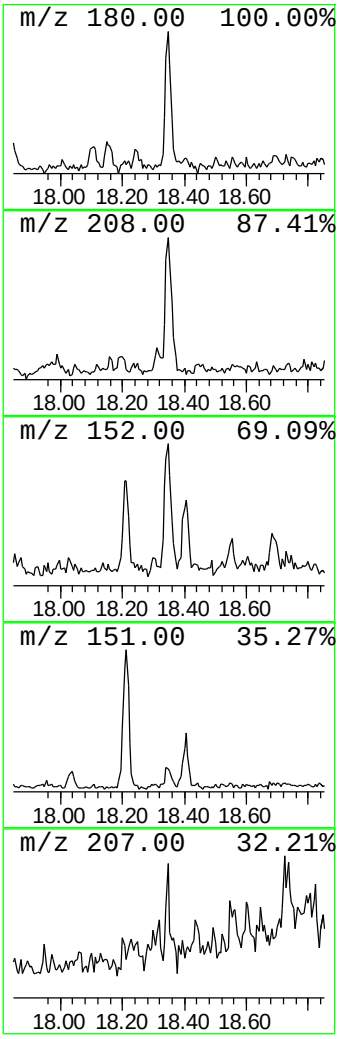
Peak Number 20 9,10-Anthracenedione Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.35 | 2.55 ng/ul | 72529 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 93 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 91 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 83 |
| 4 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 80 |
| 5 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 60 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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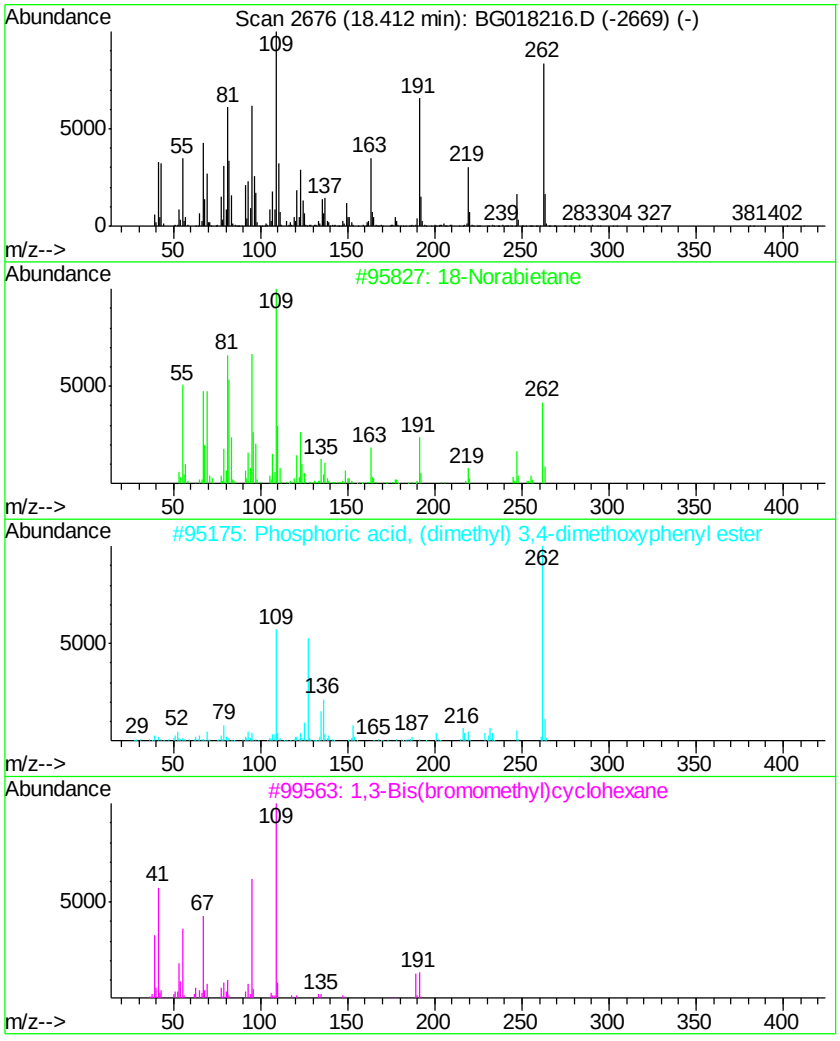
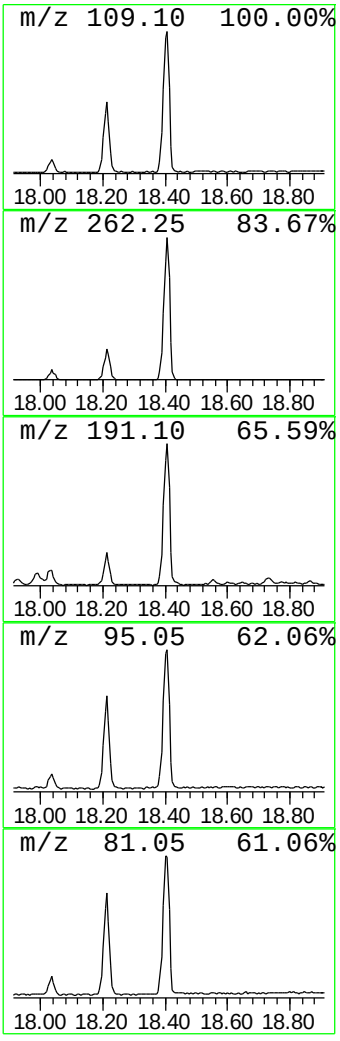
Peak Number 21 unknown-03 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.41 | 97.48 ng/ul | 2775620 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 90 |
| 2 | Phosphoric acid, (dimethyl) 3,4-... | 262 | C10H15O6P | 094420-74-3 | 35 |
| 3 | 1,3-Bis(bromomethyl)cyclohexane | 268 | C8H14Br2 | 1000216-89-9 | 32 |
| 4 | Fenthion O-analog | 262 | C10H15O4PS | 006552-12-1 | 30 |
| 5 | Pyrazol-3-amine, 1-(4-fluorobenz... | 191 | C10H10FN3 | 1000272-83-2 | 27 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

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

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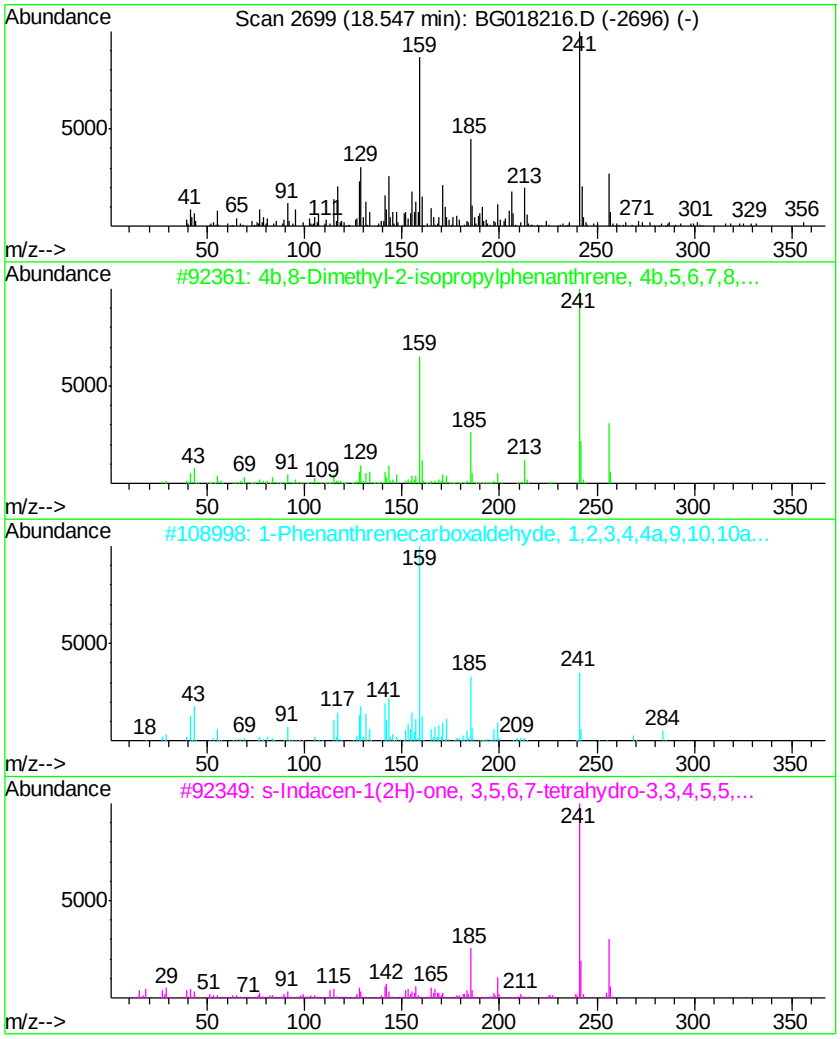
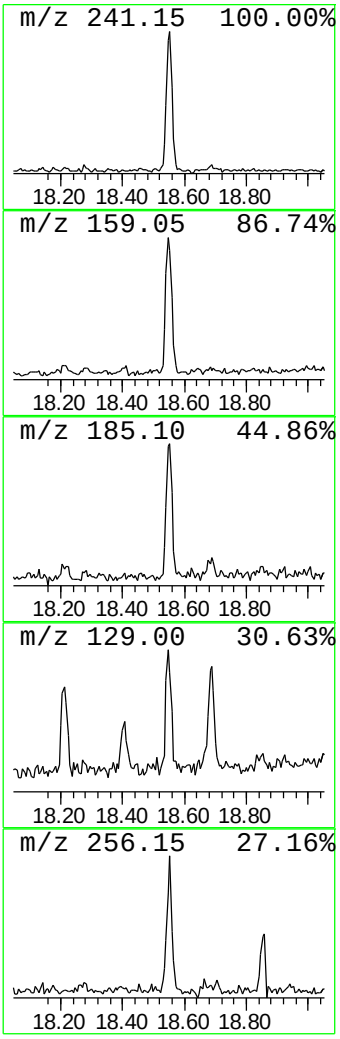
Peak Number 22 4b,8-Dimethyl-2-isopropylph... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.55 | 6.11 ng/ul | 173959 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 91 |
| 2 | 1-Phenanthrenecarboxaldehyde, 1,... | 284 | C20H28O | 024035-50-5 | 64 |
| 3 | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O | 038754-94-8 | 46 |
| 4 | 2-(2-Benzothiazolyl)-5-methylphenol | 241 | C14H11NOS | 056048-54-5 | 42 |
| 5 | 1-Methyl-10,18-bisnorabieta-8,11... | 256 | C19H28 | 1000293-16-9 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

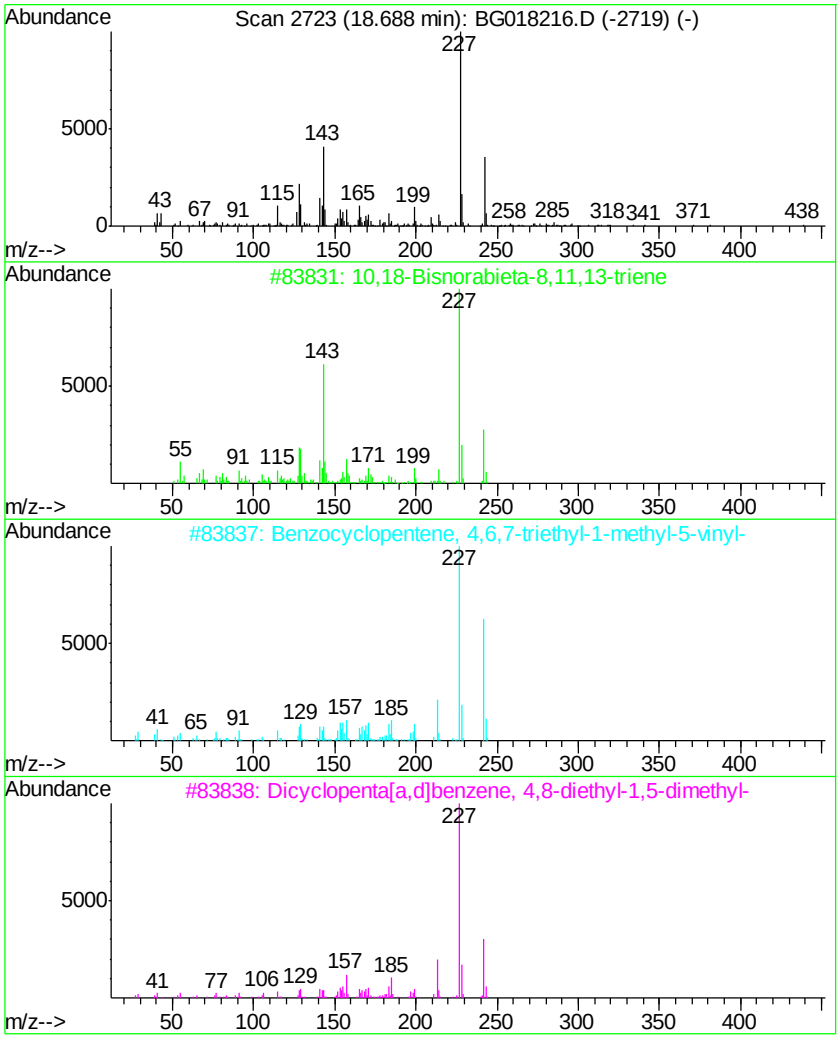
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

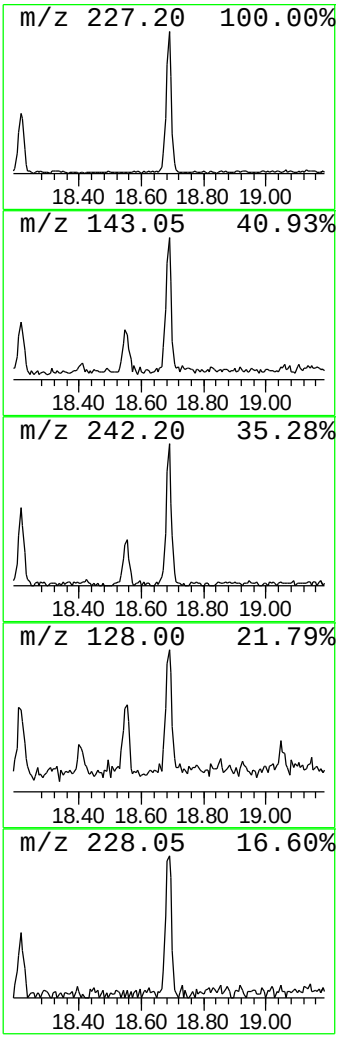
**********

Peak Number 23 10,18-Bisnorabieta-8,11,13-... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.69 | 6.21 ng/ul | 176767 | Phenanthrene-d10 | 16.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-8,11,13-triene | 242 | C18H26 | 032624-67-2 | 91 |
| 2 | Benzocyclopentene, 4,6,7-triethy... | 242 | C18H26 | 1000156-41-5 | 70 |
| 3 | Dicyclopenta[a,d]benzene, 4,8-di... | 242 | C18H26 | 1000156-41-6 | 60 |
| 4 | Benzo[d]pyrazolo[3,4-b]azepin-3(... | 227 | C13H13N3O | 263550-89-6 | 58 |
| 5 | s-Indacene-1,7-dione, 2,3,5,6-te... | 242 | C16H18O2 | 055591-17-8 | 53 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

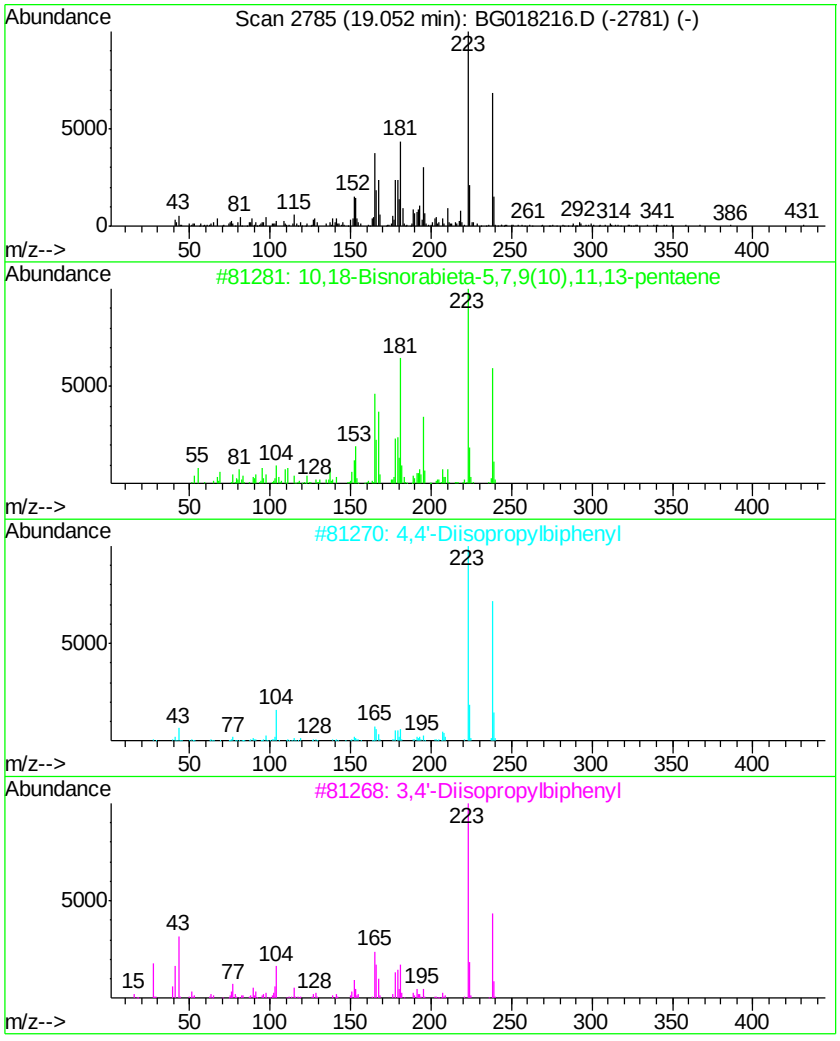
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

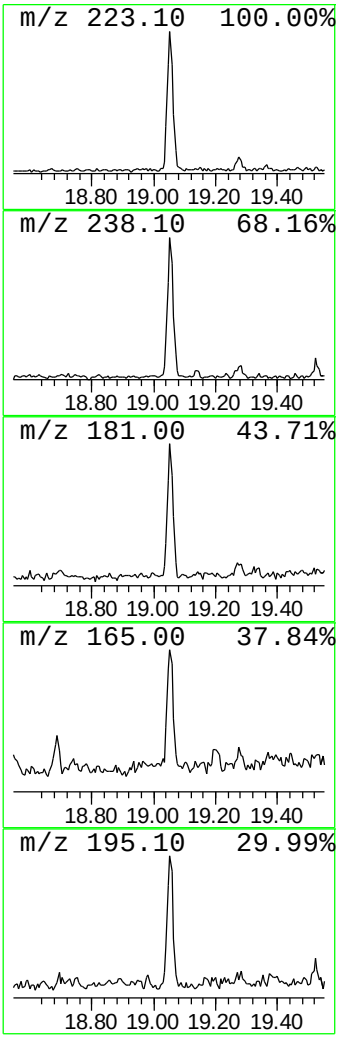
**********

Peak Number 24 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.05 | 3.93 ng/ul | 220185 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 95 |
| 2 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 47 |
| 3 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 45 |
| 4 | 2-Morpholin-4-yl-5,6-dihydro-4H-... | 238 | C11H14N2O2S | 313251-21-7 | 44 |
| 5 | 3,3'-Diacetylbiphenyl | 238 | C16H14O2 | 094113-07-2 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

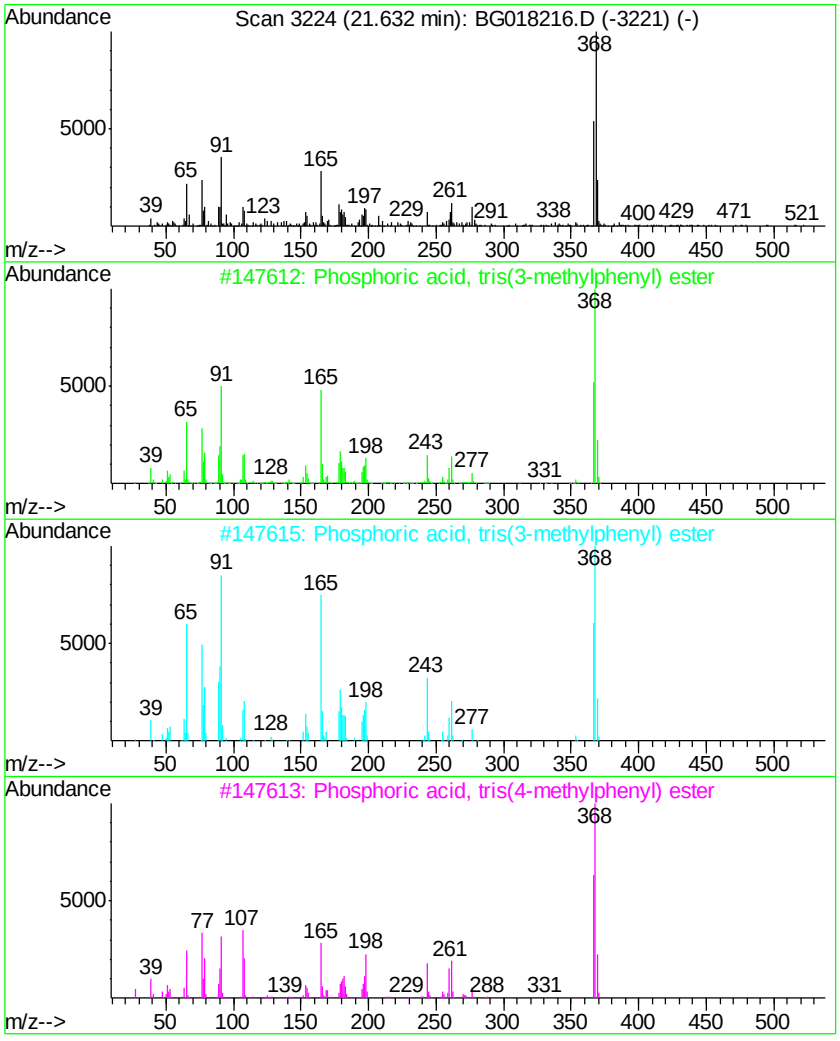
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

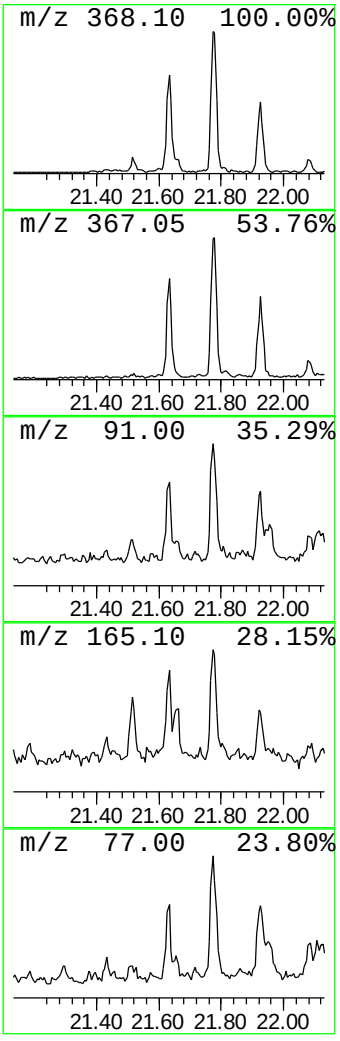
**********

Peak Number 25 Phosphoric acid, tris(3-met... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.63 | 4.56 ng/ul | 255323 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 99 |
| 2 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 94 |
| 3 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 74 |
| 4 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 64 |
| 5 | 4,4'-(4,4'-Biphenylylenedioxy)di... | 368 | C24H20N2O2 | 013080-85-8 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

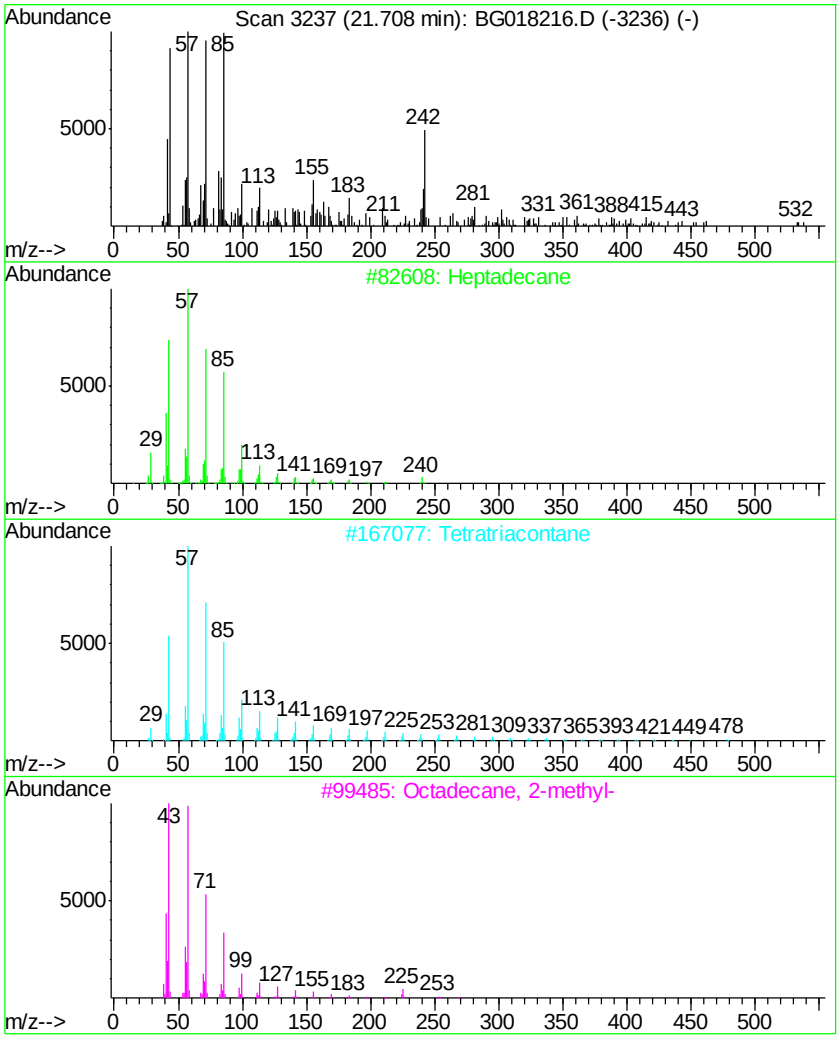
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

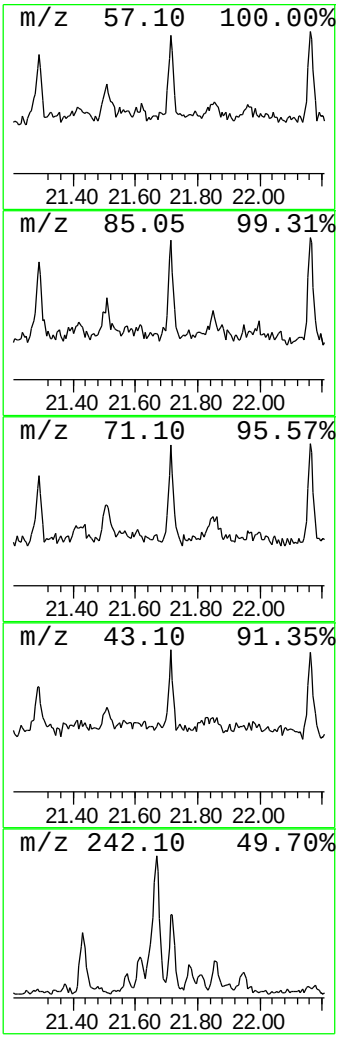
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.71 | 4.48 ng/ul | 251106 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 70 |
| 2 | Tetratriacontane | 479 | C34H70 | 014167-59-0 | 68 |
| 3 | Octadecane, 2-methyl- | 268 | C19H40 | 001560-88-9 | 68 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 64 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 64 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

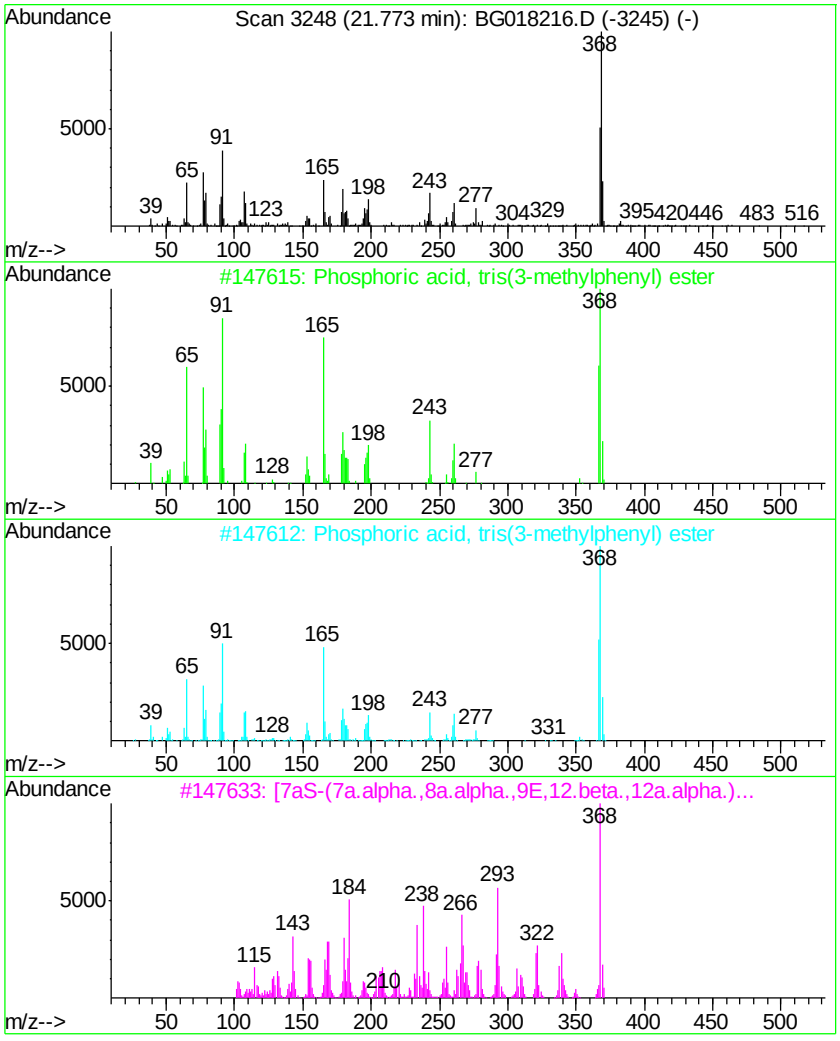
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

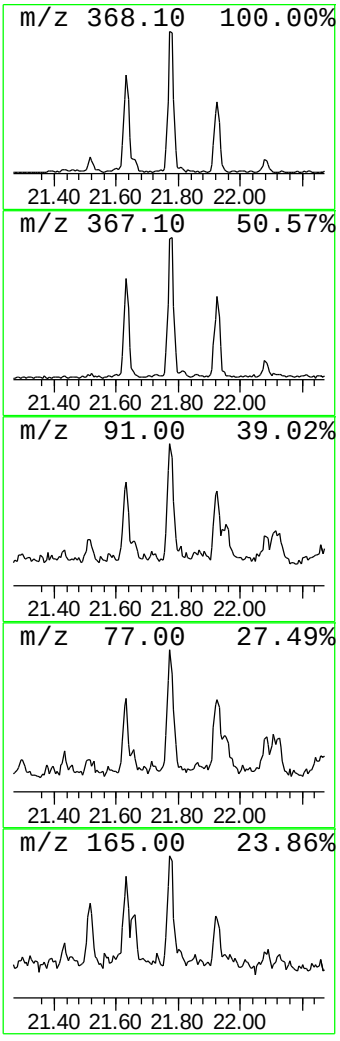
**********

Peak Number 27 [7aS-(7a.alpha.,8a.alpha.,9... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.77 | 9.39 ng/ul | 525584 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 98 |
| 2 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 97 |
| 3 | [7aS-(7a.alpha.,8a.alpha.,9E,12.... | 368 | C21H24N2O4 | 030809-15-5 | 92 |
| 4 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 90 |
| 5 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 81 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

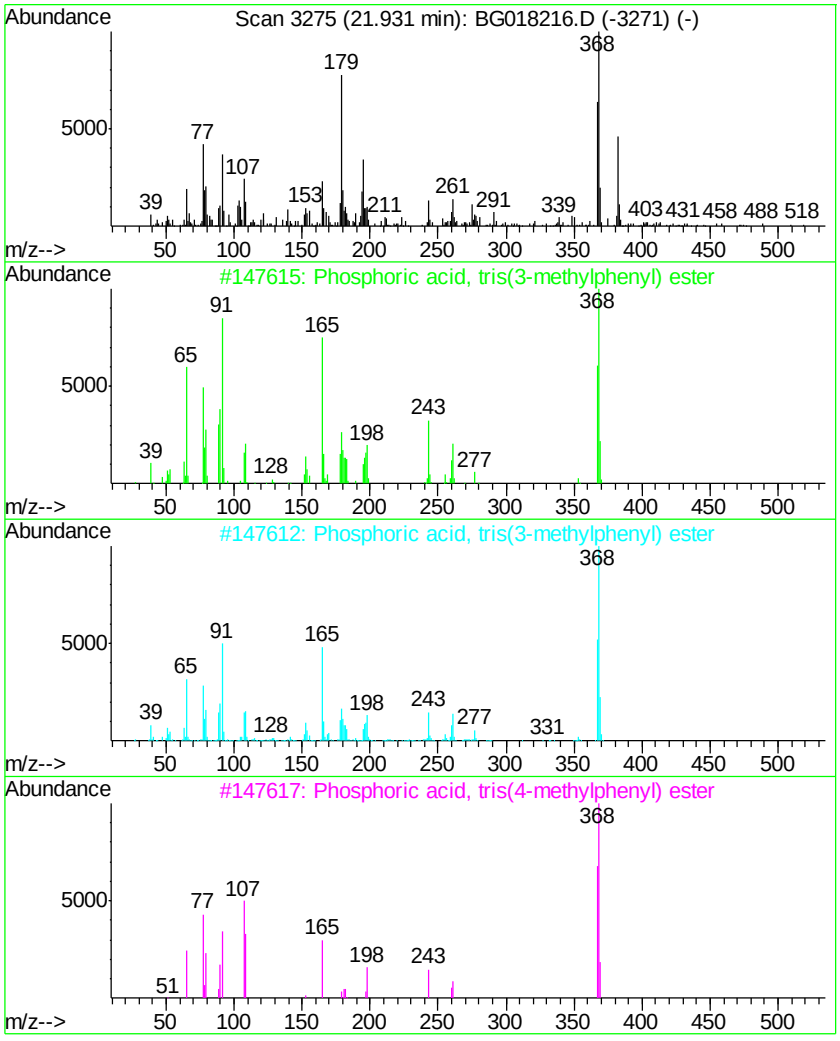
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

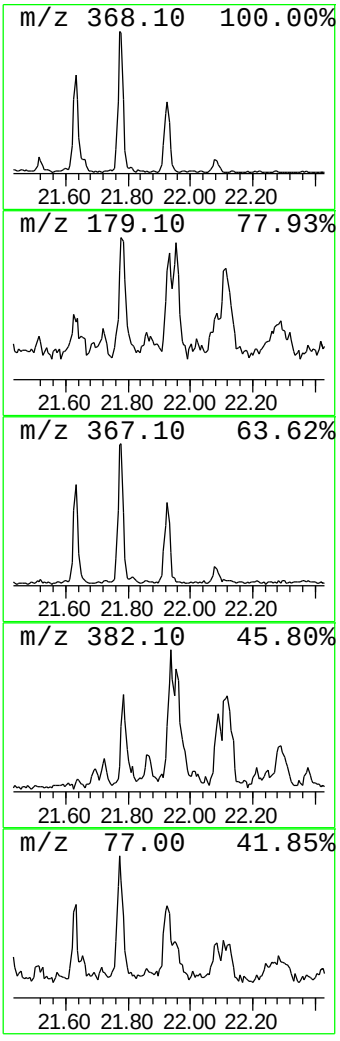
**********

Peak Number 28 Phosphoric acid, tris(4-met... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.93 | 4.80 ng/ul | 268981 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 96 |
| 2 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 76 |
| 3 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 53 |
| 4 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 52 |
| 5 | Pyrimidine-4,6-dione, hexahydro-... | 368 | C19H16N2O4S | 310421-18-2 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION

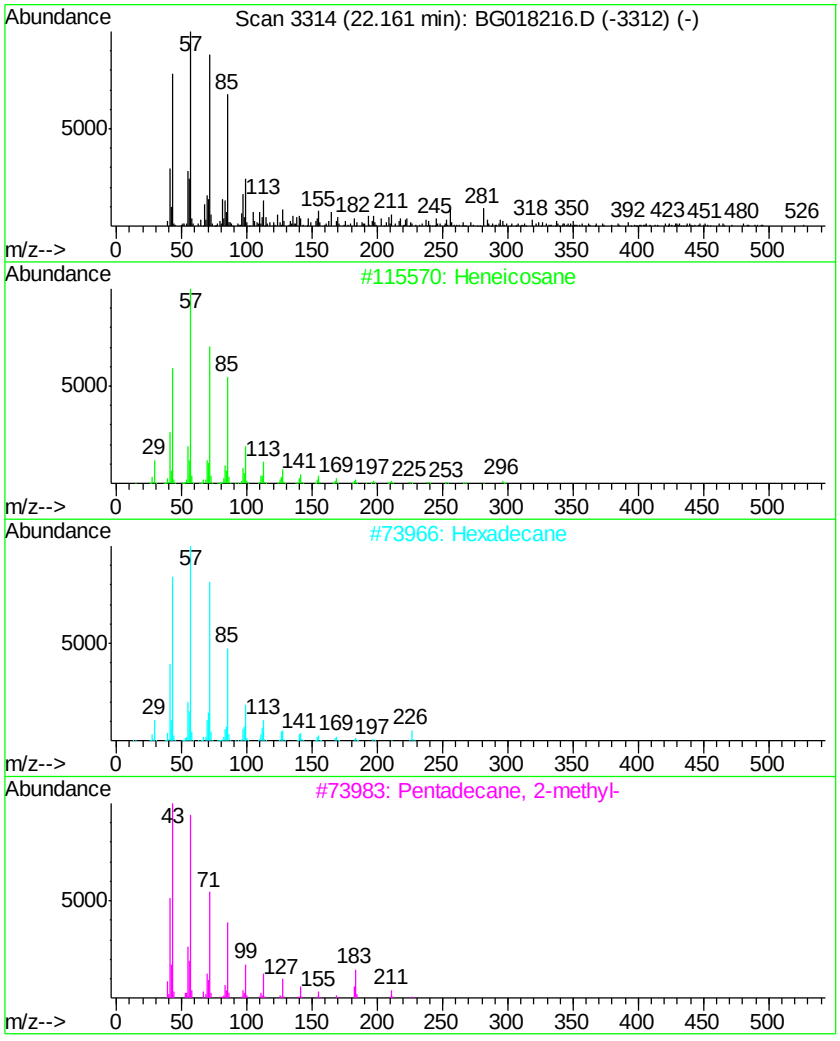
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

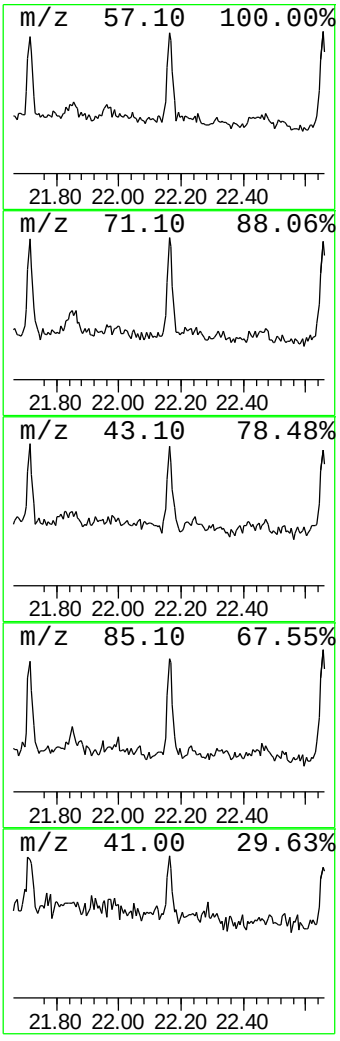
**********

Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.16 | 4.28 ng/ul | 239548 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 3 | Pentadecane, 2-methyl- | 226 | C16H34 | 001560-93-6 | 83 |
| 4 | Triacontane | 422 | C30H62 | 000638-68-6 | 83 |
| 5 | Tricosane, 2-methyl- | 338 | C24H50 | 001928-30-9 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG073115\
Data File : BG018216.D
Acq On : 1 Aug 2015 12:13
Operator : TP/UM
Sample : G3073-07
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01N7

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.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 |
| Methyl Isobutyl K... | 3.31 | 2.8 | ng/ul | 48870 | 1 | 7.48 | 344272 | 20.0 |
| Benzene, 1-ethyl-... | 6.58 | 4.1 | ng/ul | 71145 | 1 | 7.48 | 344272 | 20.0 |
| Benzene, 1,2,3-tr... | 6.63 | 3.1 | ng/ul | 54025 | 1 | 7.48 | 344272 | 20.0 |
| 1,3-Cyclopentadie... | 7.60 | 2.2 | ng/ul | 37228 | 1 | 7.48 | 344272 | 20.0 |
| Benzene, 1,4-diet... | 7.98 | 2.2 | ng/ul | 37186 | 1 | 7.48 | 344272 | 20.0 |
| Benzene, 1,2-diet... | 8.12 | 4.3 | ng/ul | 74208 | 1 | 7.48 | 344272 | 20.0 |
| Benzene, 4-ethyl-... | 8.59 | 4.7 | ng/ul | 81143 | 1 | 7.48 | 344272 | 20.0 |
| 2,5-Cyclohexadien... | 16.74 | 2.1 | ng/ul | 60044 | 4 | 16.92 | 569470 | 20.0 |
| 1H-Indene, 2-phenyl- | 17.84 | 7.4 | ng/ul | 209658 | 4 | 16.92 | 569470 | 20.0 |
| 4H-Cyclopenta[def... | 17.99 | 7.3 | ng/ul | 209418 | 4 | 16.92 | 569470 | 20.0 |
| unknown-01 | 18.04 | 12.6 | ng/ul | 357837 | 4 | 16.92 | 569470 | 20.0 |
| unknown-02 | 18.21 | 70.2 | ng/ul | 1999630 | 4 | 16.92 | 569470 | 20.0 |
| 5,16[1',2']:8,13[... | 18.31 | 2.4 | ng/ul | 68922 | 4 | 16.92 | 569470 | 20.0 |
| 9,10-Anthracenedione | 18.35 | 2.5 | ng/ul | 72529 | 4 | 16.92 | 569470 | 20.0 |
| unknown-03 | 18.41 | 97.5 | ng/ul | 2775620 | 4 | 16.92 | 569470 | 20.0 |
| 4b,8-Dimethyl-2-i... | 18.55 | 6.1 | ng/ul | 173959 | 4 | 16.92 | 569470 | 20.0 |
| 10,18-Bisnorabiet... | 18.69 | 6.2 | ng/ul | 176767 | 4 | 16.92 | 569470 | 20.0 |
| 10,18-Bisnorabiet... | 19.05 | 3.9 | ng/ul | 220185 | 5 | 21.13 | 1120020 | 20.0 |
| Phosphoric acid, ... | 21.63 | 4.6 | ng/ul | 255323 | 5 | 21.13 | 1120020 | 20.0 |
| (DEL) Alkane: Str... | 21.71 | 4.5 | ng/ul | 251106 | 5 | 21.13 | 1120020 | 20.0 |
| [7aS-(7a.alpha.,8... | 21.77 | 9.4 | ng/ul | 525584 | 5 | 21.13 | 1120020 | 20.0 |
| Phosphoric acid, ... | 21.93 | 4.8 | ng/ul | 268981 | 5 | 21.13 | 1120020 | 20.0 |
| (DEL) Alkane: Str... | 22.16 | 4.3 | ng/ul | 239548 | 5 | 21.13 | 1120020 | 20.0 |