LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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 | 3.281 | 97 | 101 | 106 | rVB | 24781 | 31368 | 0.80% | 0.124% |
| 2 | 3.457 | 127 | 131 | 137 | rBV2 | 16035 | 22349 | 0.57% | 0.088% |
| 3 | 5.473 | 468 | 474 | 480 | rBV3 | 13655 | 22864 | 0.58% | 0.090% |
| 4 | 6.660 | 670 | 676 | 687 | rVB | 74672 | 127693 | 3.26% | 0.503% |
| 5 | 6.801 | 695 | 700 | 711 | rBV | 54039 | 86545 | 2.21% | 0.341% |
| 6 | 6.994 | 728 | 733 | 743 | rVB | 81457 | 129526 | 3.31% | 0.510% |
| 7 | 7.459 | 804 | 812 | 818 | rVB | 123148 | 197048 | 5.03% | 0.776% |
| 8 | 8.187 | 929 | 936 | 943 | rBV | 73273 | 116453 | 2.98% | 0.459% |
| 9 | 8.610 | 1002 | 1008 | 1016 | rBV | 80229 | 131381 | 3.36% | 0.517% |
| 10 | 9.333 | 1119 | 1131 | 1142 | rBV3 | 84703 | 178533 | 4.56% | 0.703% |
| 11 | 9.879 | 1218 | 1224 | 1232 | rBV | 114860 | 186637 | 4.77% | 0.735% |
| 12 | 10.238 | 1279 | 1285 | 1291 | rBV | 185010 | 305931 | 7.82% | 1.205% |
| 13 | 10.390 | 1305 | 1311 | 1320 | rVB4 | 34413 | 62603 | 1.60% | 0.247% |
| 14 | 11.918 | 1567 | 1571 | 1576 | rVB2 | 15100 | 22687 | 0.58% | 0.089% |
| 15 | 12.700 | 1701 | 1704 | 1714 | rVB7 | 11545 | 24320 | 0.62% | 0.096% |
| 16 | 13.293 | 1800 | 1805 | 1813 | rVB5 | 17518 | 45235 | 1.16% | 0.178% |
| 17 | 13.446 | 1826 | 1831 | 1836 | rBV2 | 31352 | 52553 | 1.34% | 0.207% |
| 18 | 13.504 | 1836 | 1841 | 1844 | rVV3 | 23563 | 32630 | 0.83% | 0.129% |
| 19 | 13.551 | 1844 | 1849 | 1853 | rVV | 231278 | 297761 | 7.61% | 1.173% |
| 20 | 13.598 | 1853 | 1857 | 1867 | rVB2 | 88437 | 143808 | 3.67% | 0.566% |
| 21 | 13.687 | 1867 | 1872 | 1876 | rBV5 | 15818 | 25742 | 0.66% | 0.101% |
| 22 | 13.822 | 1889 | 1895 | 1900 | rBV | 211093 | 318335 | 8.13% | 1.254% |
| 23 | 14.133 | 1938 | 1948 | 1955 | rBV2 | 296253 | 477666 | 12.20% | 1.881% |
| 24 | 14.192 | 1955 | 1958 | 1962 | rBV2 | 17996 | 24072 | 0.61% | 0.095% |
| 25 | 14.386 | 1986 | 1991 | 1997 | rVB2 | 73399 | 114340 | 2.92% | 0.450% |
| 26 | 14.521 | 2007 | 2014 | 2015 | rBV6 | 18551 | 32336 | 0.83% | 0.127% |
| 27 | 14.544 | 2015 | 2018 | 2022 | rVB2 | 32615 | 45006 | 1.15% | 0.177% |
| 28 | 14.615 | 2027 | 2030 | 2036 | rVB2 | 28106 | 40191 | 1.03% | 0.158% |
| 29 | 14.674 | 2037 | 2040 | 2049 | rVB9 | 16347 | 30270 | 0.77% | 0.119% |
| 30 | 14.762 | 2049 | 2055 | 2060 | rBV7 | 27574 | 50716 | 1.30% | 0.200% |
| 31 | 14.815 | 2060 | 2064 | 2067 | rVB3 | 21343 | 30847 | 0.79% | 0.121% |
| 32 | 14.926 | 2078 | 2083 | 2087 | rBV7 | 21591 | 48211 | 1.23% | 0.190% |
| 33 | 15.138 | 2114 | 2119 | 2123 | rVV | 273301 | 377860 | 9.65% | 1.488% |
| 34 | 15.191 | 2123 | 2128 | 2132 | rVB3 | 26649 | 39160 | 1.00% | 0.154% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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 | 15.238 | 2132 | 2136 | 2139 | rBV6 | 17065 | 24994 | 0.64% | 0.098% |
| 36 | 15.279 | 2139 | 2143 | 2147 | rVV | 70152 | 94120 | 2.40% | 0.371% |
| 37 | 15.414 | 2162 | 2166 | 2172 | rVB5 | 27761 | 49877 | 1.27% | 0.196% |
| 38 | 15.714 | 2211 | 2217 | 2221 | rBV8 | 17135 | 31874 | 0.81% | 0.126% |
| 39 | 15.884 | 2240 | 2246 | 2248 | rBV7 | 38188 | 77428 | 1.98% | 0.305% |
| 40 | 16.172 | 2291 | 2295 | 2298 | rBV2 | 26785 | 41456 | 1.06% | 0.163% |
| 41 | 16.319 | 2318 | 2320 | 2332 | rVB2 | 15913 | 31280 | 0.80% | 0.123% |
| 42 | 16.554 | 2355 | 2360 | 2365 | rBV9 | 15013 | 29439 | 0.75% | 0.116% |
| 43 | 16.671 | 2377 | 2380 | 2383 | rVV4 | 26959 | 31614 | 0.81% | 0.125% |
| 44 | 16.718 | 2383 | 2388 | 2396 | rVB4 | 47817 | 95198 | 2.43% | 0.375% |
| 45 | 16.895 | 2412 | 2418 | 2422 | rVV | 324696 | 472291 | 12.07% | 1.860% |
| 46 | 16.936 | 2422 | 2425 | 2429 | rVV | 172474 | 229522 | 5.86% | 0.904% |
| 47 | 16.994 | 2429 | 2435 | 2438 | rVV | 252221 | 365651 | 9.34% | 1.440% |
| 48 | 17.024 | 2438 | 2440 | 2445 | rVB2 | 42639 | 55875 | 1.43% | 0.220% |
| 49 | 17.089 | 2445 | 2451 | 2457 | rBV9 | 29315 | 69465 | 1.77% | 0.274% |
| 50 | 17.171 | 2463 | 2465 | 2469 | rVB5 | 22151 | 22104 | 0.56% | 0.087% |
| 51 | 17.306 | 2485 | 2488 | 2498 | rVB9 | 20293 | 47525 | 1.21% | 0.187% |
| 52 | 17.617 | 2537 | 2541 | 2546 | rVB8 | 15225 | 27047 | 0.69% | 0.107% |
| 53 | 17.770 | 2561 | 2567 | 2570 | rBV2 | 25832 | 42580 | 1.09% | 0.168% |
| 54 | 17.817 | 2570 | 2575 | 2578 | rBV3 | 136162 | 200411 | 5.12% | 0.789% |
| 55 | 17.970 | 2596 | 2601 | 2604 | rBV3 | 91082 | 143411 | 3.66% | 0.565% |
| 56 | 18.011 | 2604 | 2608 | 2613 | rVB2 | 134531 | 199887 | 5.11% | 0.787% |
| 57 | 18.111 | 2623 | 2625 | 2630 | rVB6 | 18222 | 25038 | 0.64% | 0.099% |
| 58 | 18.187 | 2632 | 2638 | 2646 | rVB | 1704478 | 2311460 | 59.05% | 9.104% |
| 59 | 18.252 | 2646 | 2649 | 2652 | rBV5 | 20514 | 32867 | 0.84% | 0.129% |
| 60 | 18.375 | 2665 | 2670 | 2678 | rVB | 1466572 | 1923221 | 49.13% | 7.575% |
| 61 | 18.528 | 2690 | 2696 | 2701 | rVB | 3005495 | 3914167 | 100.00% | 15.416% |
| 62 | 18.663 | 2714 | 2719 | 2724 | rBV | 892644 | 1073908 | 27.44% | 4.230% |
| 63 | 18.757 | 2732 | 2735 | 2740 | rVB3 | 76486 | 95403 | 2.44% | 0.376% |
| 64 | 18.804 | 2740 | 2743 | 2745 | rBV4 | 28031 | 36391 | 0.93% | 0.143% |
| 65 | 18.828 | 2745 | 2747 | 2755 | rVB5 | 60350 | 87062 | 2.22% | 0.343% |
| 66 | 18.969 | 2766 | 2771 | 2776 | rBV | 328777 | 457841 | 11.70% | 1.803% |
| 67 | 19.033 | 2777 | 2782 | 2787 | rVB | 2265600 | 2583333 | 66.00% | 10.175% |
| 68 | 19.116 | 2792 | 2796 | 2802 | rVB3 | 100737 | 152125 | 3.89% | 0.599% |
| 69 | 19.180 | 2805 | 2807 | 2812 | rVV6 | 25285 | 27971 | 0.71% | 0.110% |
| 70 | 19.251 | 2817 | 2819 | 2824 | rVB6 | 38748 | 45034 | 1.15% | 0.177% |
| 71 | 19.304 | 2824 | 2828 | 2831 | rBV2 | 278579 | 399589 | 10.21% | 1.574% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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 | 19.333 | 2831 | 2833 | 2838 | rVB2 | 257854 | 306930 | 7.84% | 1.209% |
| 73 | 19.456 | 2852 | 2854 | 2858 | rVB5 | 30193 | 35534 | 0.91% | 0.140% |
| 74 | 19.509 | 2860 | 2863 | 2867 | rVV5 | 45443 | 66059 | 1.69% | 0.260% |
| 75 | 19.574 | 2870 | 2874 | 2880 | rVB3 | 101270 | 205552 | 5.25% | 0.810% |
| 76 | 19.633 | 2881 | 2884 | 2886 | rBV4 | 31395 | 36149 | 0.92% | 0.142% |
| 77 | 19.685 | 2890 | 2893 | 2900 | rVB8 | 82241 | 123115 | 3.15% | 0.485% |
| 78 | 19.832 | 2914 | 2918 | 2922 | rVB2 | 139320 | 177674 | 4.54% | 0.700% |
| 79 | 19.938 | 2933 | 2936 | 2938 | rBV | 37425 | 42122 | 1.08% | 0.166% |
| 80 | 20.114 | 2962 | 2966 | 2970 | rBV3 | 92137 | 114120 | 2.92% | 0.449% |
| 81 | 20.167 | 2971 | 2975 | 2982 | rVB3 | 109520 | 168726 | 4.31% | 0.665% |
| 82 | 20.426 | 3013 | 3019 | 3023 | rBV7 | 76908 | 138234 | 3.53% | 0.544% |
| 83 | 20.579 | 3043 | 3045 | 3052 | rVB7 | 46902 | 57699 | 1.47% | 0.227% |
| 84 | 20.831 | 3085 | 3088 | 3094 | rVB3 | 110739 | 148451 | 3.79% | 0.585% |
| 85 | 21.031 | 3120 | 3122 | 3124 | rBV2 | 31663 | 27214 | 0.70% | 0.107% |
| 86 | 21.101 | 3129 | 3134 | 3137 | rVV2 | 330064 | 506923 | 12.95% | 1.997% |
| 87 | 21.137 | 3137 | 3140 | 3147 | rVB | 172327 | 233981 | 5.98% | 0.922% |
| 88 | 21.266 | 3159 | 3162 | 3166 | rVB3 | 143119 | 166416 | 4.25% | 0.655% |
| 89 | 21.495 | 3198 | 3201 | 3206 | rVB6 | 47304 | 68446 | 1.75% | 0.270% |
| 90 | 21.607 | 3217 | 3220 | 3224 | rBV | 123340 | 138170 | 3.53% | 0.544% |
| 91 | 21.689 | 3231 | 3234 | 3239 | rVB | 229402 | 247171 | 6.31% | 0.973% |
| 92 | 21.748 | 3240 | 3244 | 3249 | rBV3 | 229913 | 342929 | 8.76% | 1.351% |
| 93 | 21.901 | 3266 | 3270 | 3273 | rBV3 | 142542 | 213095 | 5.44% | 0.839% |
| 94 | 22.136 | 3307 | 3310 | 3315 | rVB | 241115 | 292258 | 7.47% | 1.151% |
| 95 | 22.623 | 3389 | 3393 | 3400 | rBV | 330928 | 531328 | 13.57% | 2.093% |
| 96 | 23.140 | 3477 | 3481 | 3483 | rBV | 102151 | 159029 | 4.06% | 0.626% |
| 97 | 23.175 | 3483 | 3487 | 3494 | rVB2 | 295552 | 508478 | 12.99% | 2.003% |
| 98 | 23.275 | 3500 | 3504 | 3509 | rVB | 162535 | 258975 | 6.62% | 1.020% |
| 99 | 23.798 | 3589 | 3593 | 3599 | rVB | 197037 | 354346 | 9.05% | 1.396% |
| 100 | 24.521 | 3711 | 3716 | 3726 | rVB2 | 139725 | 299974 | 7.66% | 1.181% |

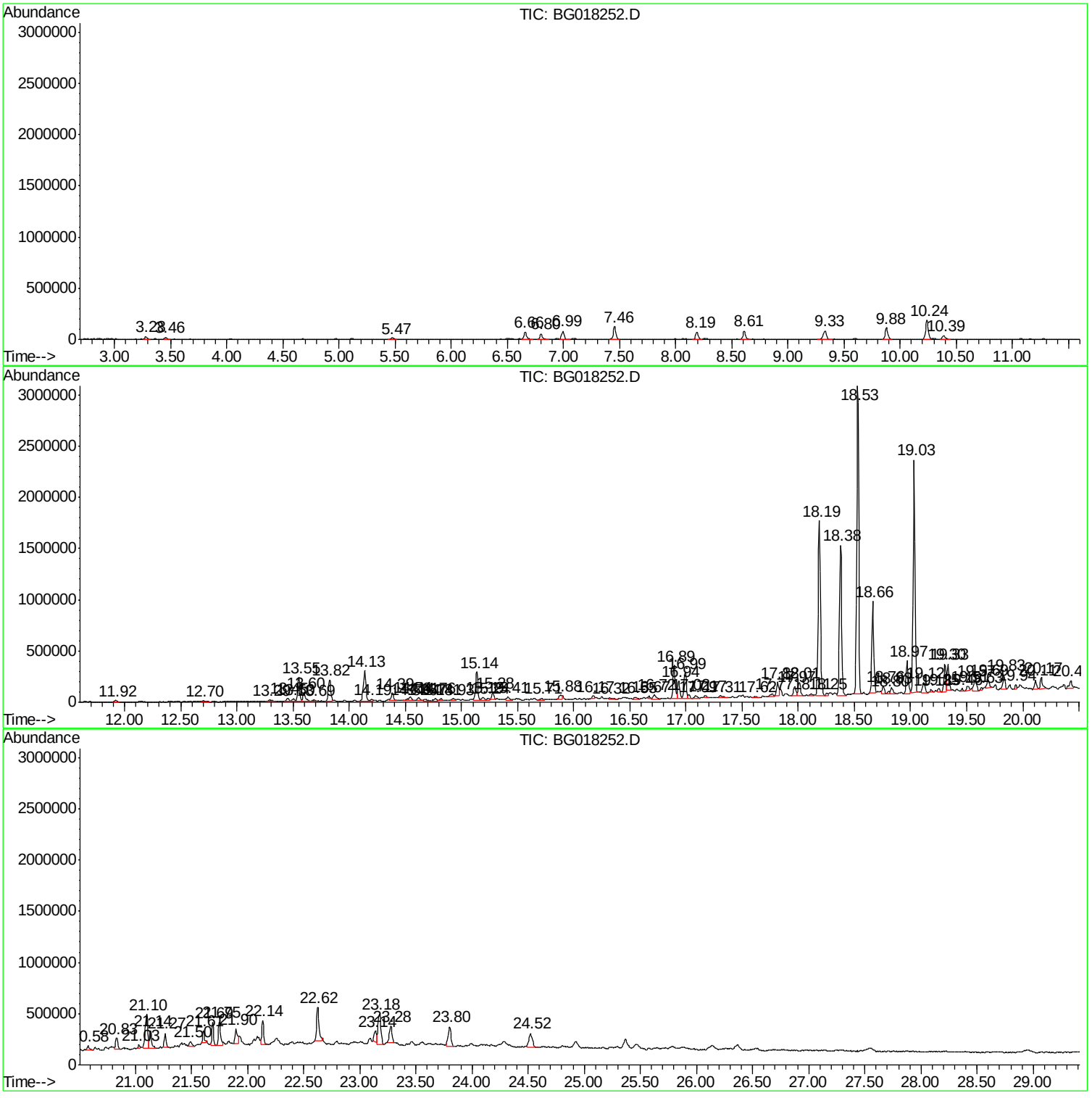
Sum of corrected areas: 25390234

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
C02K4

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\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

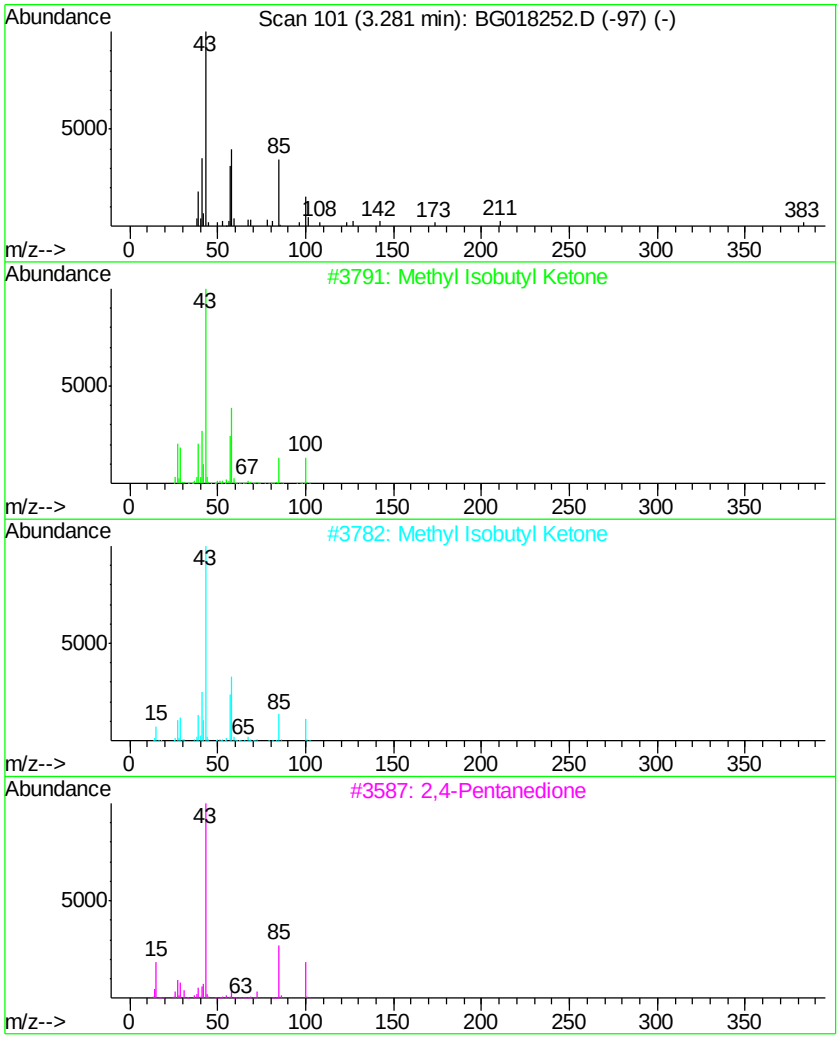
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

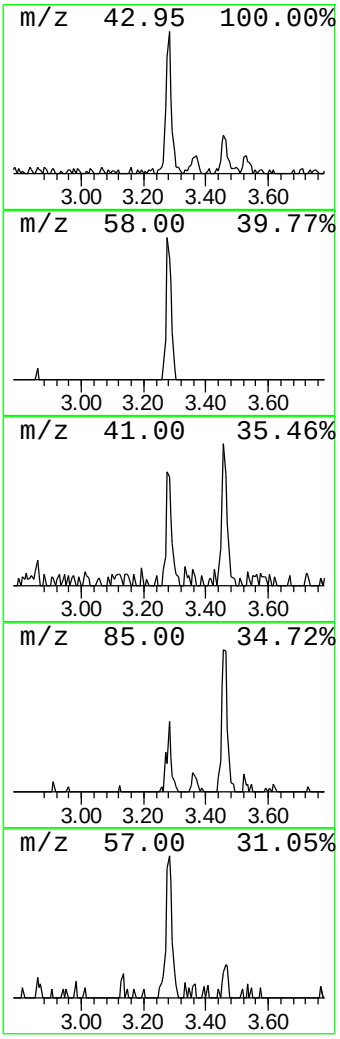
**********

Peak Number 1 Methyl Isobutyl Ketone Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.28 | 3.18 ng/ul | 31368 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 59 |
| 2 | Methyl Isobutyl Ketone | 100 | C6H12O | 000108-10-1 | 47 |
| 3 | 2,4-Pentanedione | 100 | C5H8O2 | 000123-54-6 | 25 |
| 4 | 2-Pentanone, 3-methyl- | 100 | C6H12O | 000565-61-7 | 22 |
| 5 | 1,2,4,3,5-Trioxadiborolane, 3,5-... | 100 | C2H6B2O3 | 031083-12-2 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

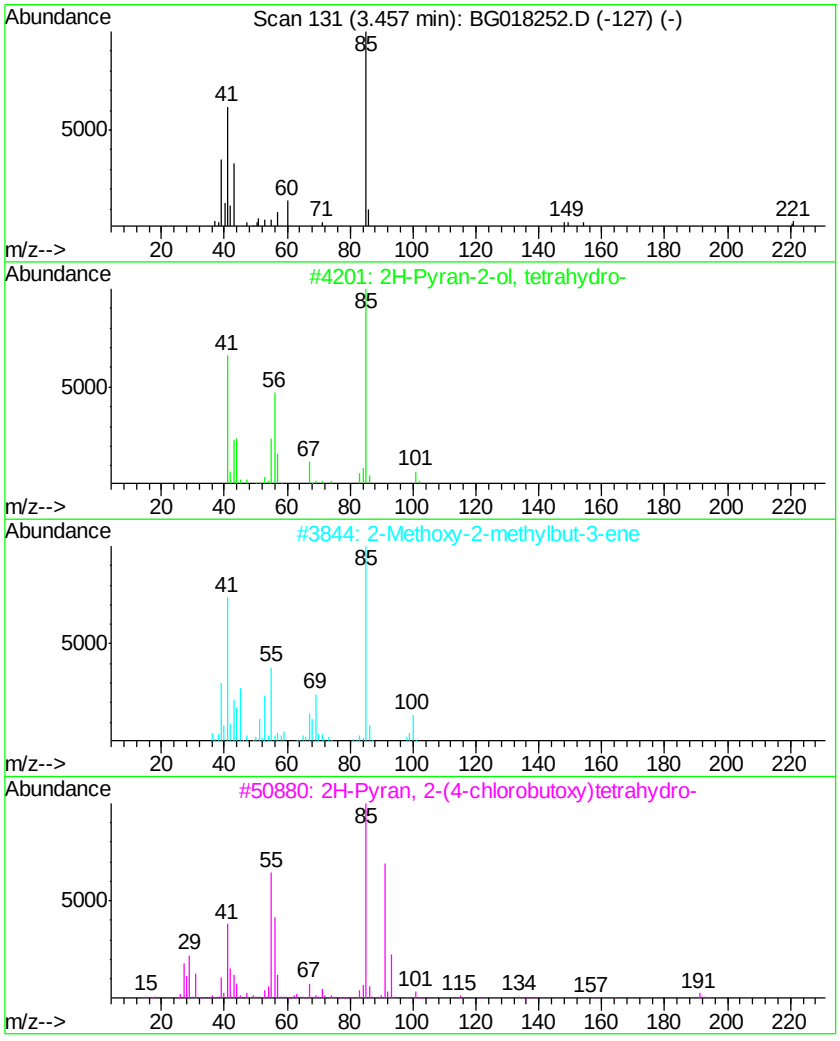
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

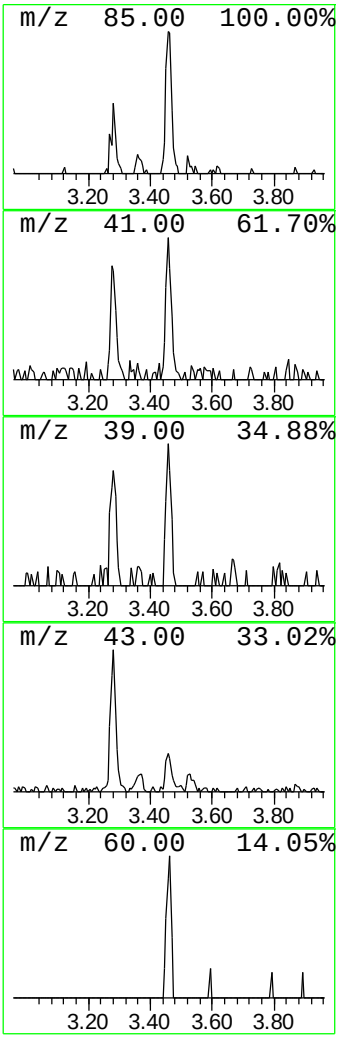
**********

Peak Number 2 unknown-01 Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.46 | 2.27 ng/ul | 22349 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyran-2-ol, tetrahydro- | 102 | C5H10O2 | 000694-54-2 | 39 |
| 2 | 2-Methoxy-2-methylbut-3-ene | 100 | C6H12O | 040426-44-6 | 38 |
| 3 | 2H-Pyran, 2-(4-chlorobutoxy)tetr... | 192 | C9H17ClO2 | 041302-05-0 | 38 |
| 4 | 2-Pyrrolidinone | 85 | C4H7NO | 000616-45-5 | 9 |
| 5 | 2-Pyrrolidinone | 85 | C4H7NO | 000616-45-5 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

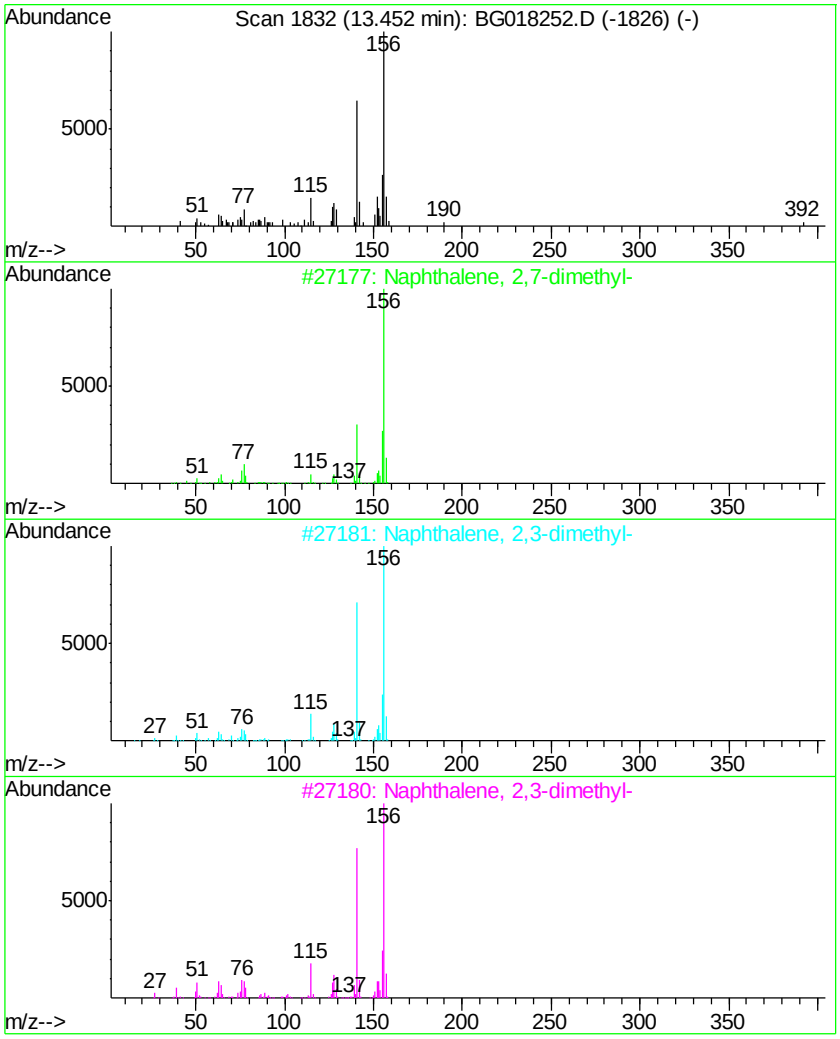
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

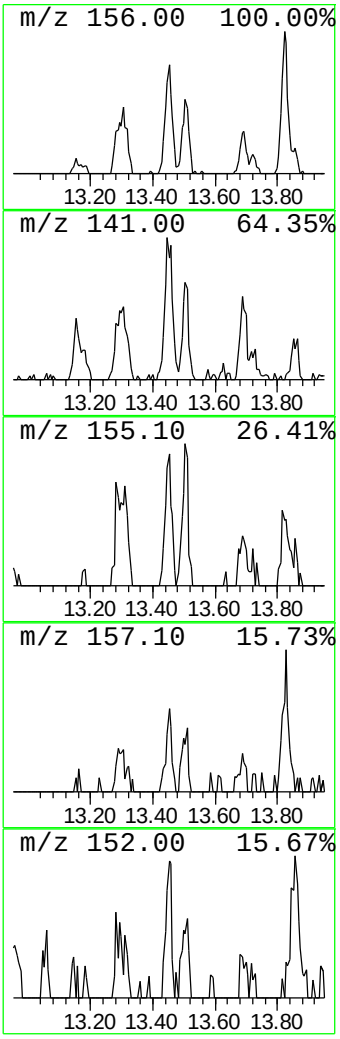
**********

Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.45 | 2.20 ng/ul | 52553 | Acenaphthene-d10 | 14.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 94 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 94 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 93 |
| 4 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 93 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 93 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

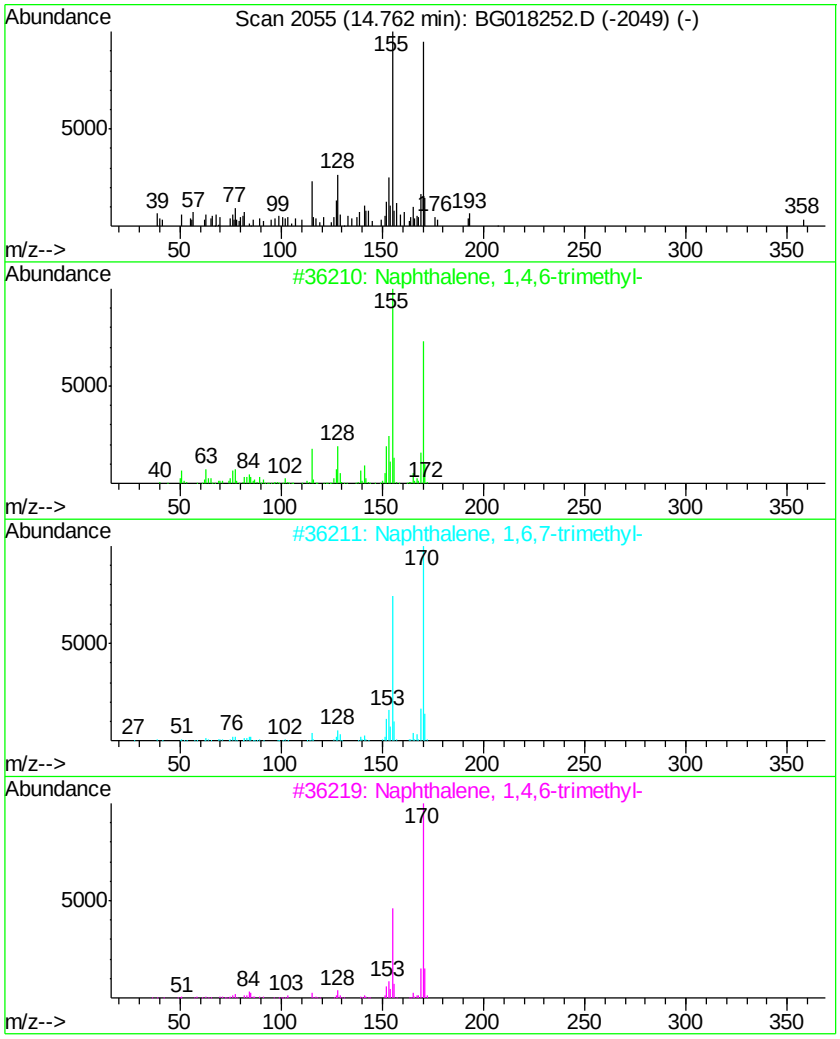
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

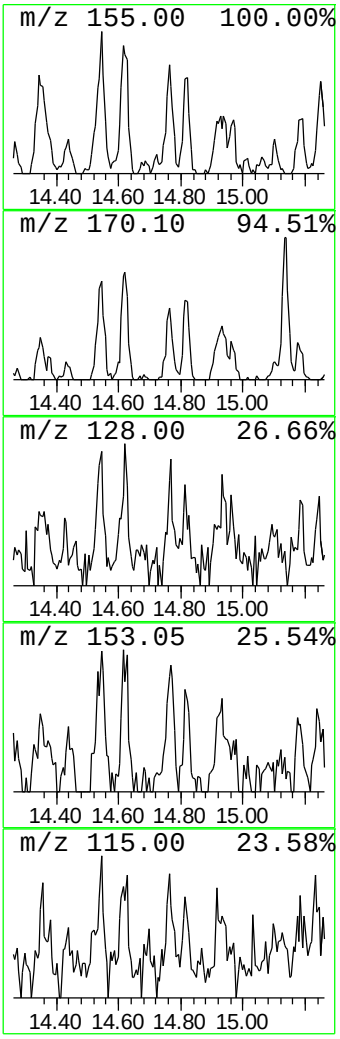
**********

Peak Number 5 Naphthalene, 1,4,6-trimethyl- Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.76 | 2.12 ng/ul | 50716 | Acenaphthene-d10 | 14.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 91 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 91 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 87 |
| 4 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 83 |
| 5 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 83 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

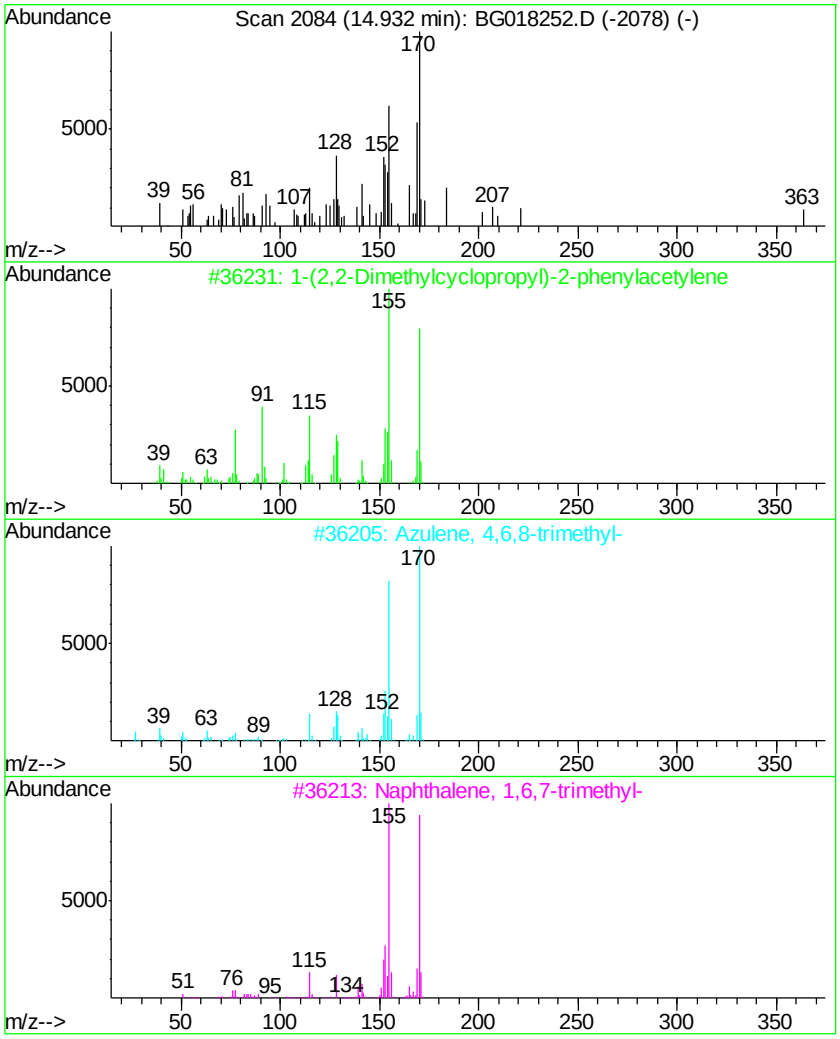
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

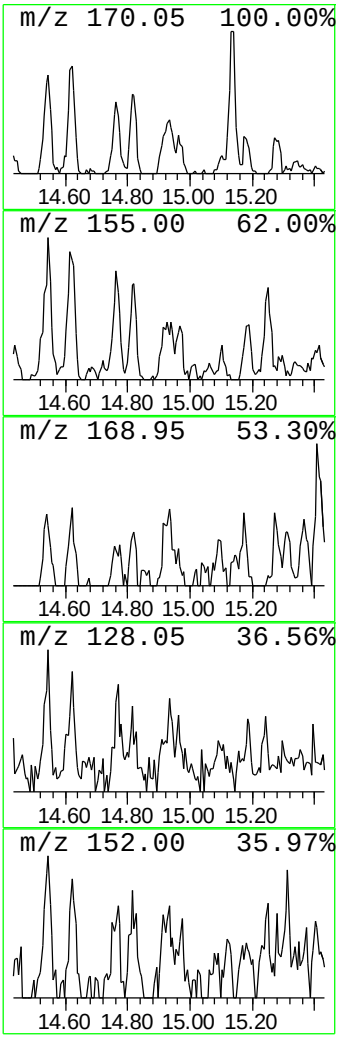
**********

Peak Number 6 1-(2,2-Dimethylcyclopropyl)... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.93 | 2.02 ng/ul | 48211 | Acenaphthene-d10 | 14.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 70 |
| 2 | Azulene, 4,6,8-trimethyl- | 170 | C13H14 | 000941-81-1 | 58 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 58 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 52 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 50 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

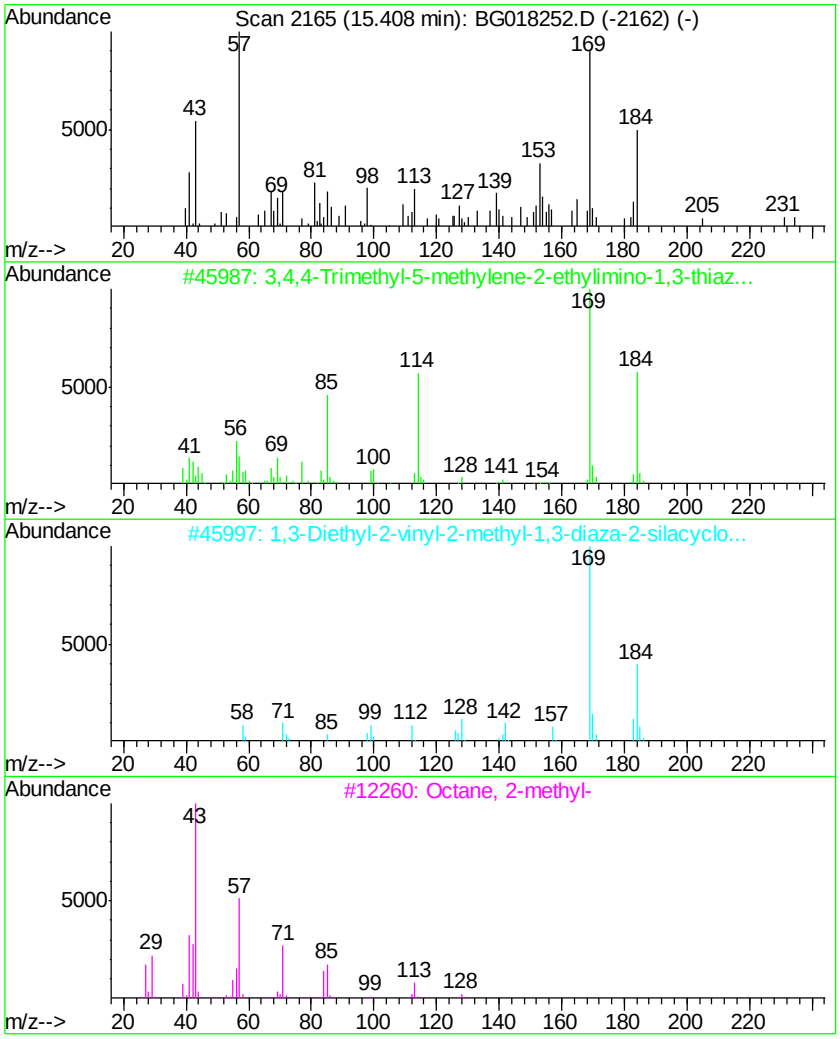
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

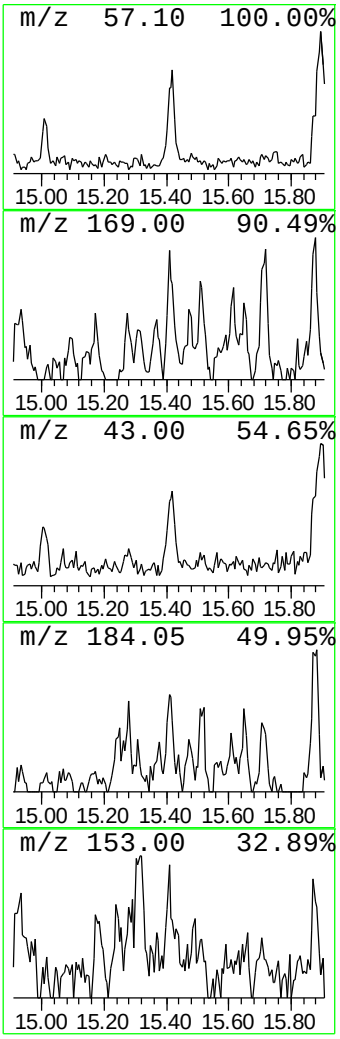
**********

Peak Number 7 unknown-02 Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.41 | 2.09 ng/ul | 49877 | Acenaphthene-d10 | 14.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,4,4-Trimethyl-5-methylene-2-et... | 184 | C9H16N2S | 037120-36-8 | 46 |
| 2 | 1,3-Diethyl-2-vinyl-2-methyl-1,3... | 184 | C9H20N2Si | 051169-45-0 | 45 |
| 3 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 30 |
| 4 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 27 |
| 5 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 27 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

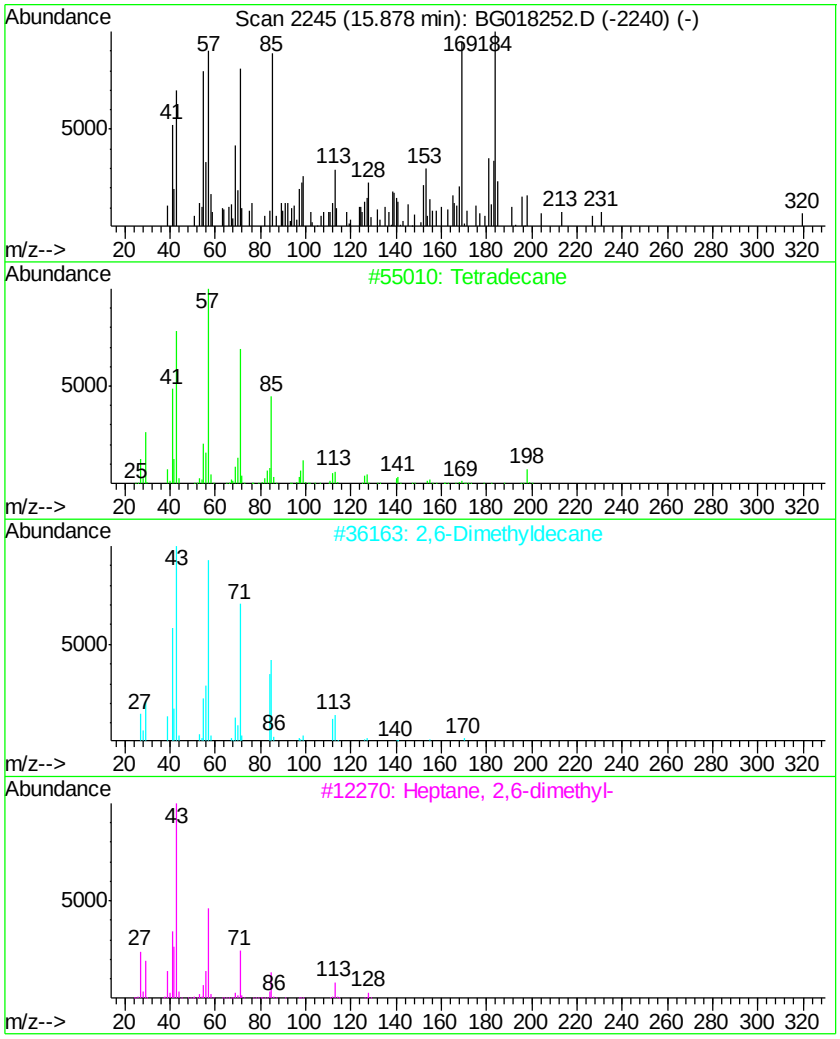
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

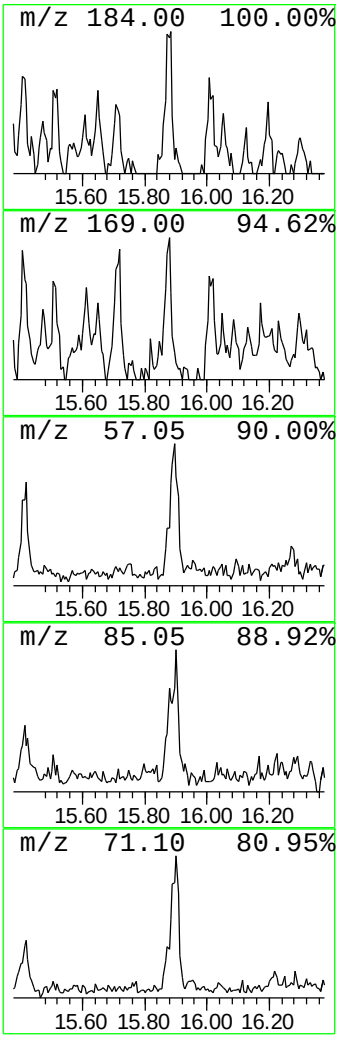
**********

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.88 | 3.28 ng/ul | 77428 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 50 |
| 2 | 2,6-Dimethyldecane | 170 | C12H26 | 013150-81-7 | 50 |
| 3 | Heptane, 2,6-dimethyl- | 128 | C9H20 | 001072-05-5 | 46 |
| 4 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 46 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

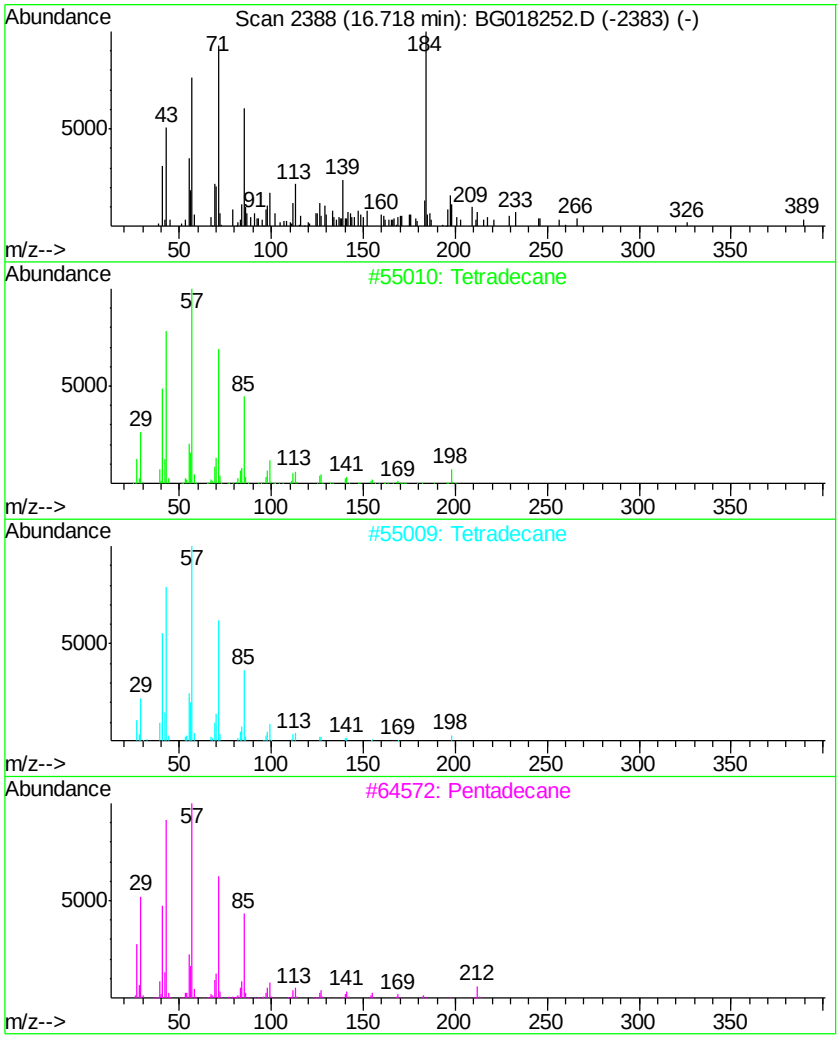
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

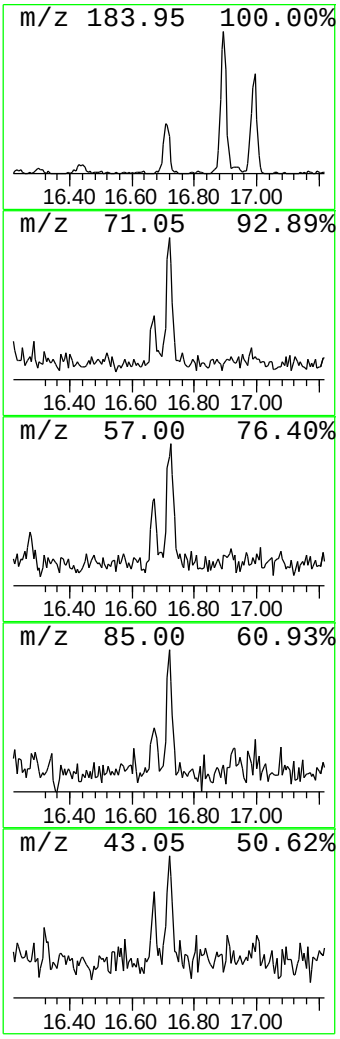
**********

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.72 | 4.03 ng/ul | 95198 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 50 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 50 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 46 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 45 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 43 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

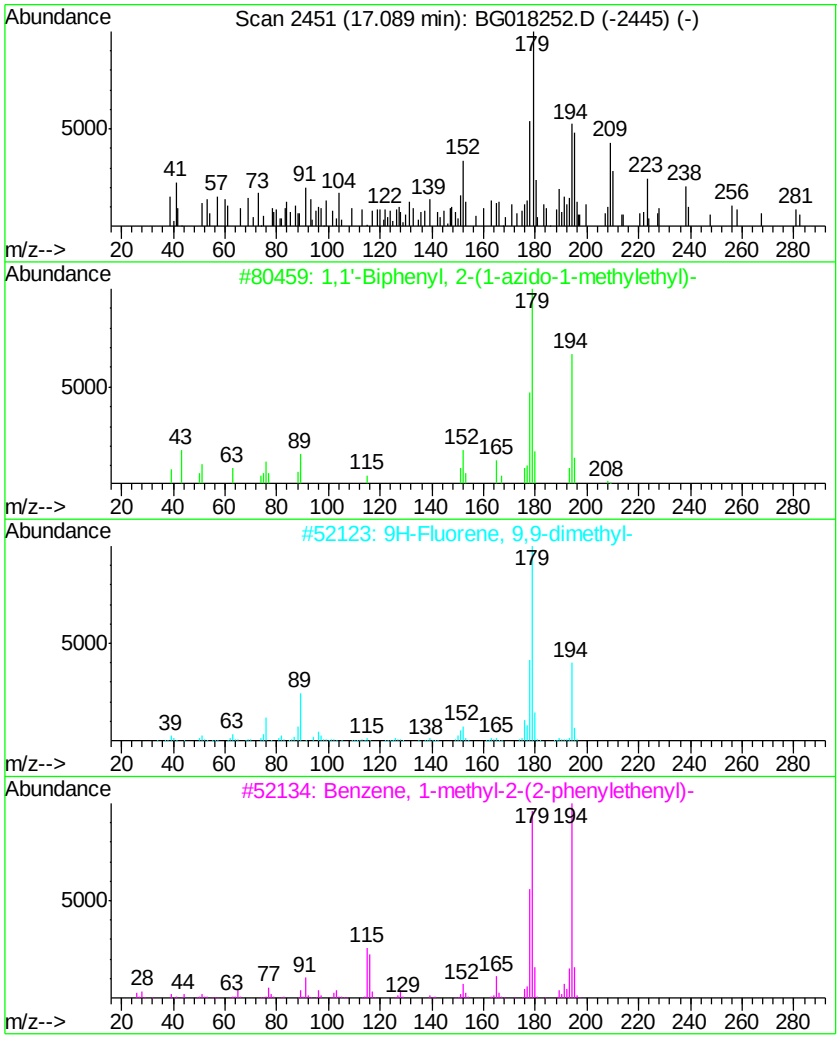
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

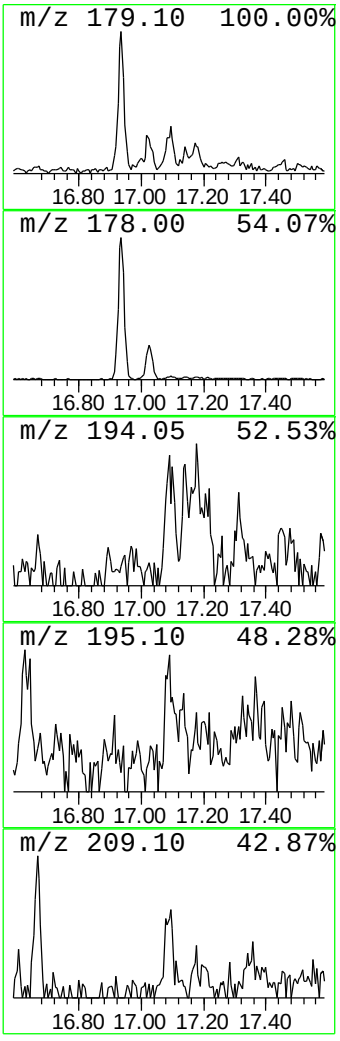
**********

Peak Number 10 unknown-03 Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.09 | 2.94 ng/ul | 69465 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2-(1-azido-1-meth... | 237 | C15H15N3 | 032366-24-8 | 43 |
| 2 | 9H-Fluorene, 9,9-dimethyl- | 194 | C15H14 | 004569-45-3 | 43 |
| 3 | Benzene, 1-methyl-2-(2-phenyleth... | 194 | C15H14 | 074685-42-0 | 38 |
| 4 | 9H-Fluorene, 2,3-dimethyl- | 194 | C15H14 | 004612-63-9 | 35 |
| 5 | Benzene, 2-(1,1-dimethylethyl)-1... | 194 | C12H18O2 | 021112-37-8 | 30 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

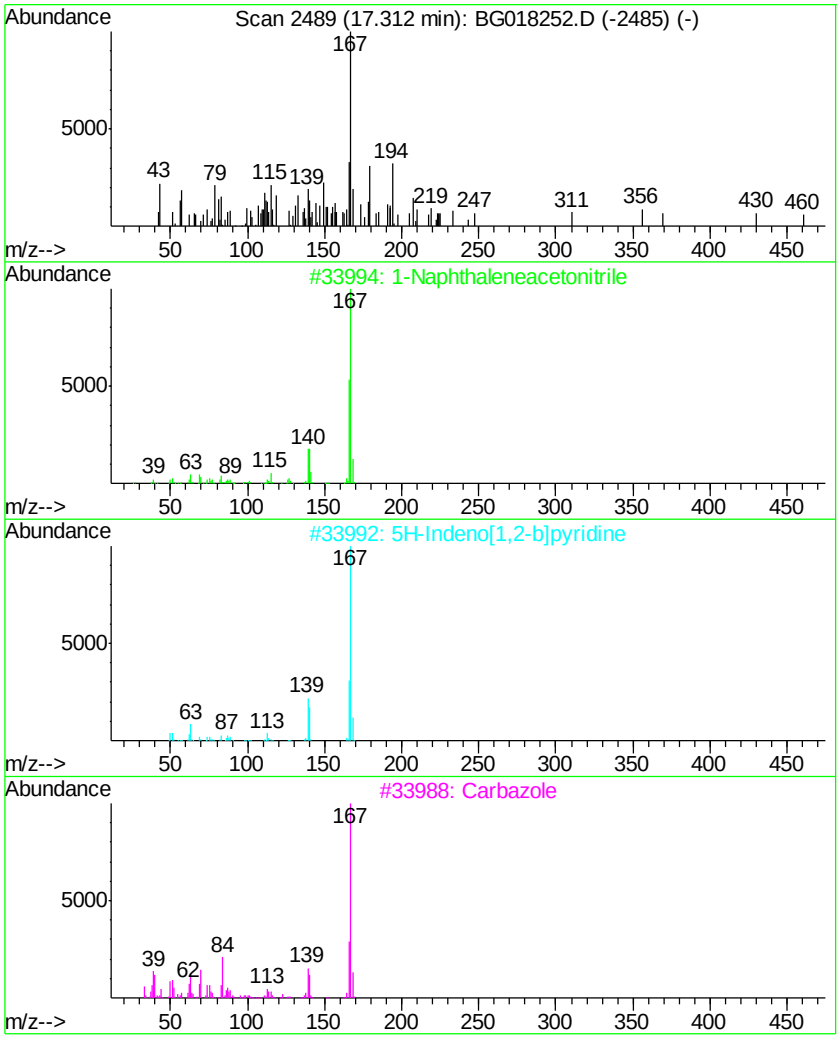
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

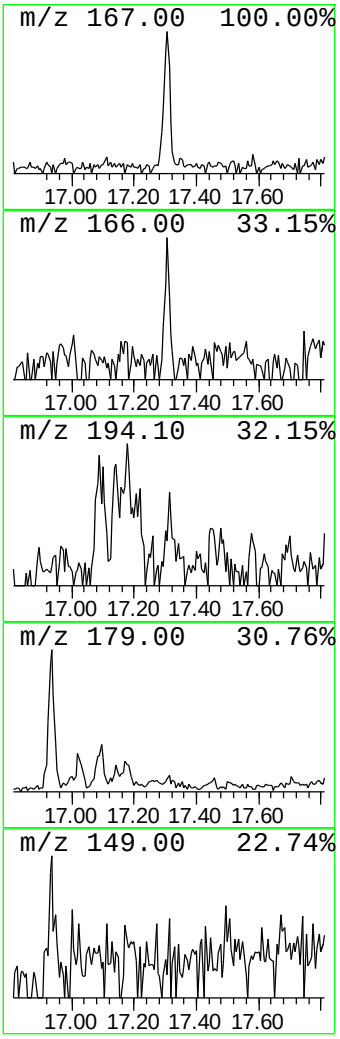
**********

Peak Number 11 1-Naphthaleneacetonitrile Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.31 | 2.01 ng/ul | 47525 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthaleneacetonitrile | 167 | C12H9N | 000132-75-2 | 58 |
| 2 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 49 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 49 |
| 4 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 47 |
| 5 | Silane, (2-ethoxyphenoxy)trimethyl- | 210 | C11H18O2Si | 099448-04-1 | 47 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

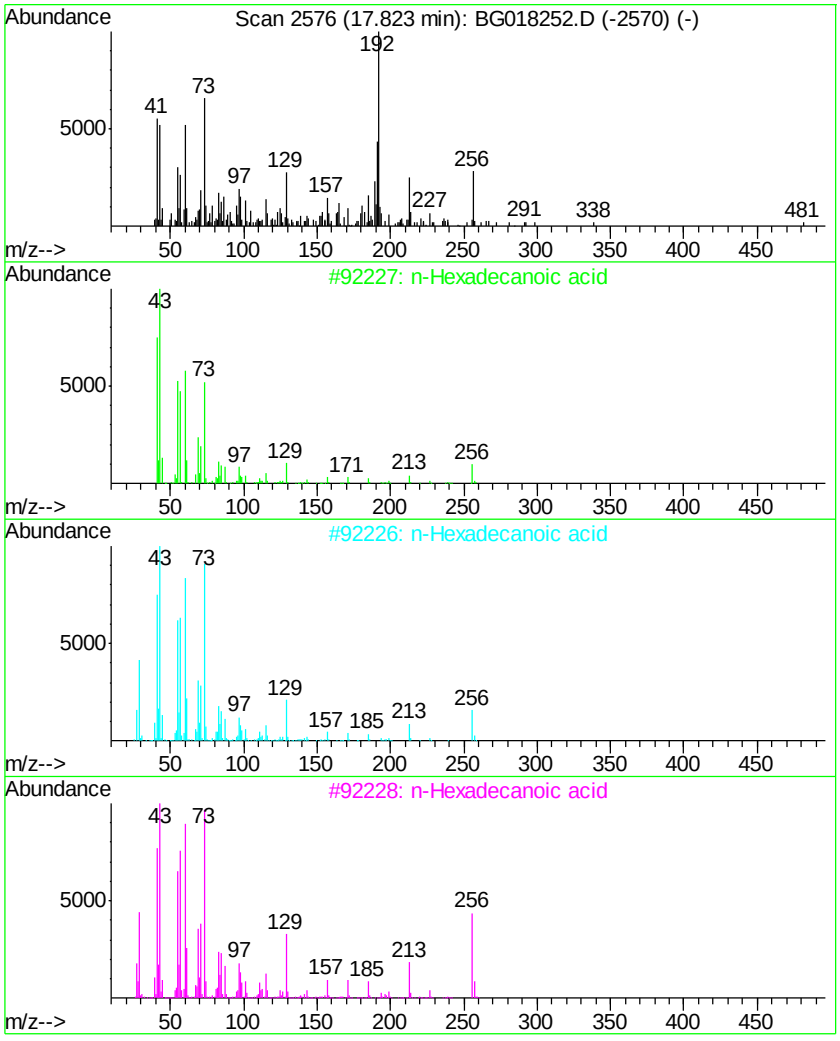
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

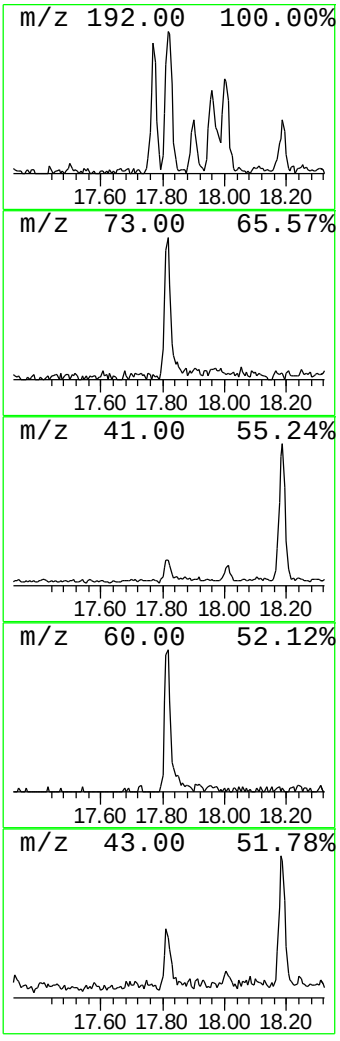
**********

Peak Number 12 n-Hexadecanoic acid Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.82 | 8.49 ng/ul | 200411 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 83 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 66 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 60 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 45 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 42 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

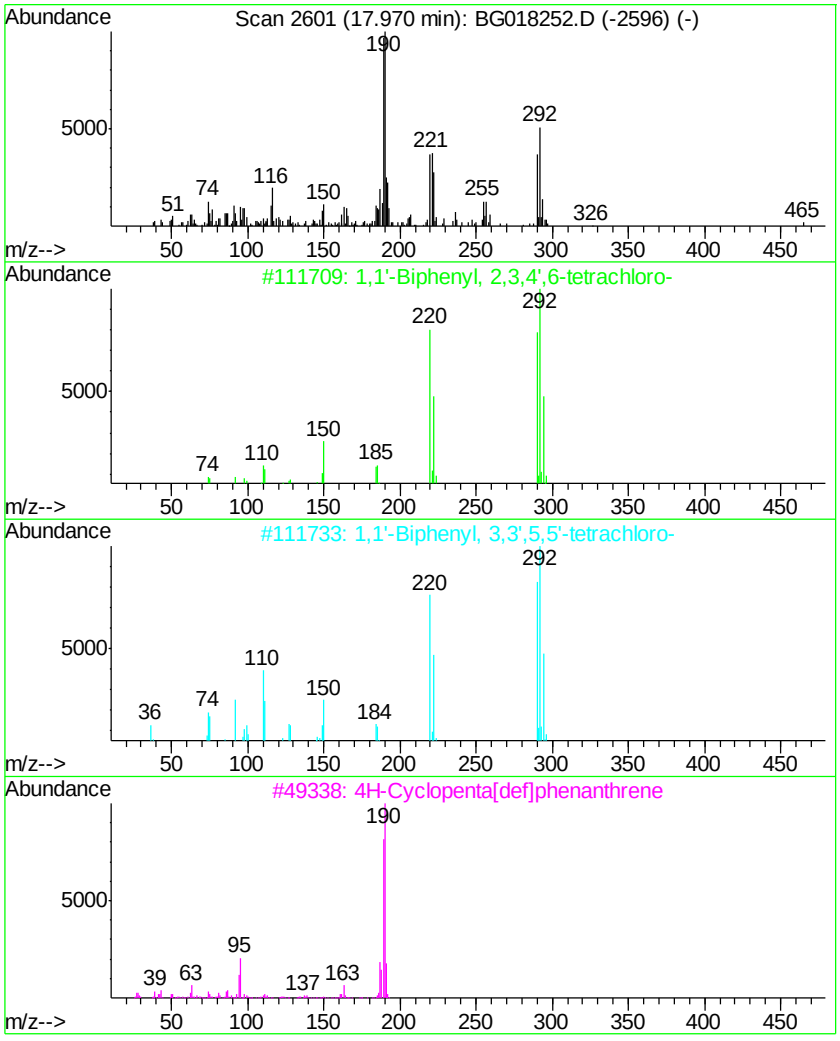
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

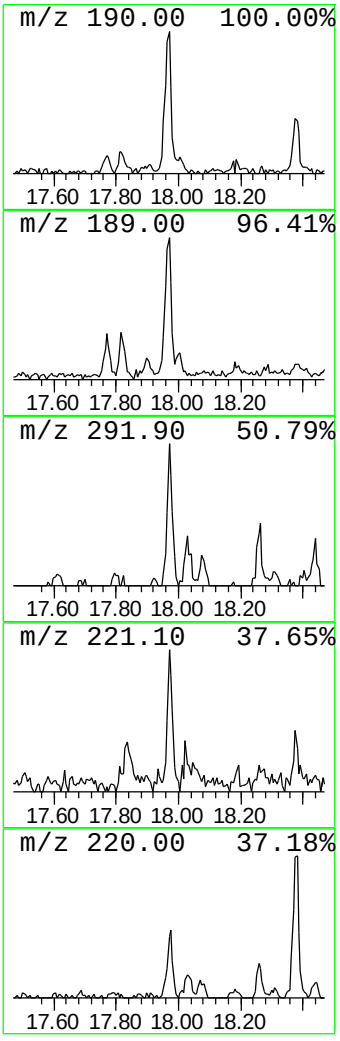
**********

Peak Number 13 unknown-04 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 6.07 ng/ul | 143411 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,4',6-tetrachl... | 290 | C12H6Cl4 | 052663-58-8 | 46 |
| 2 | 1,1'-Biphenyl, 3,3',5,5'-tetrach... | 290 | C12H6Cl4 | 033284-52-5 | 46 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 43 |
| 4 | 1,1'-Biphenyl, 2,4,4',6-tetrachl... | 290 | C12H6Cl4 | 032598-12-2 | 35 |
| 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 30 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

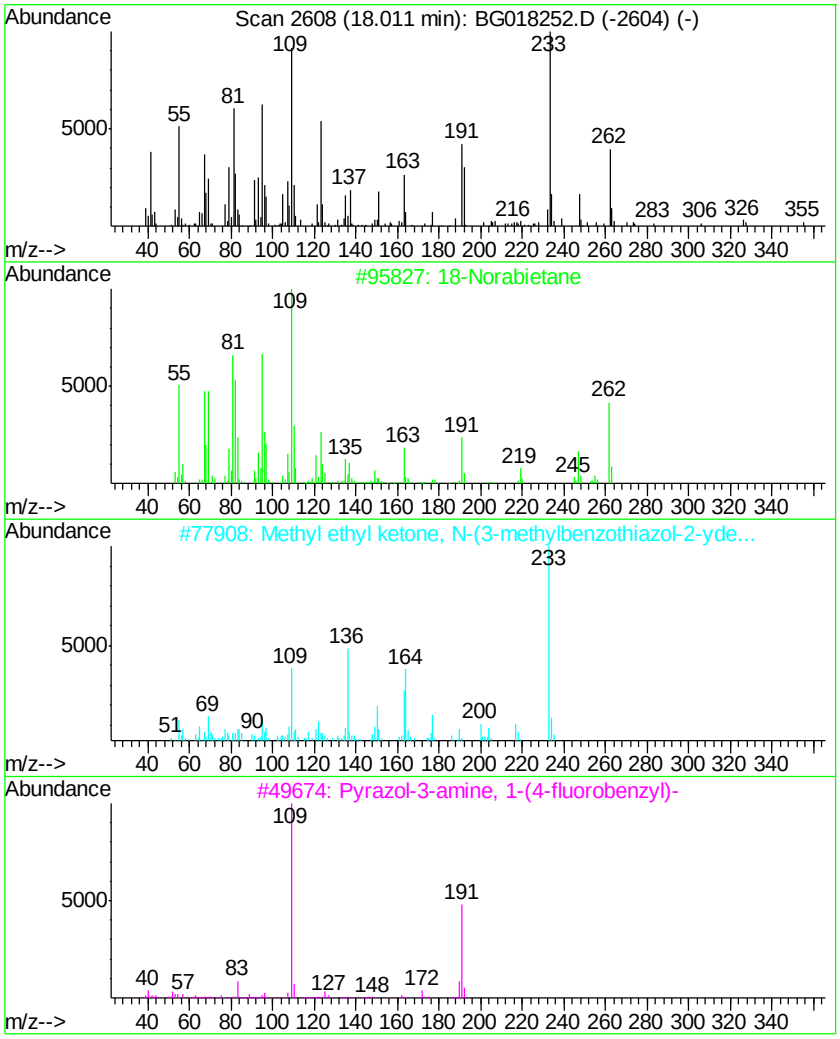
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

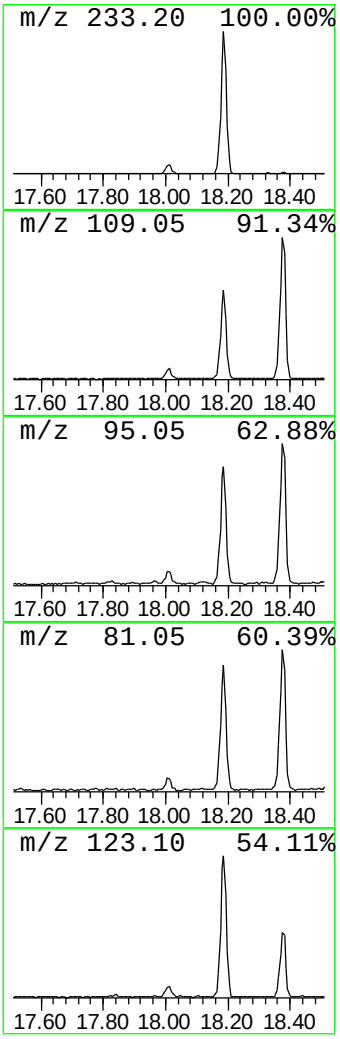
**********

Peak Number 14 18-Norabietane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 8.46 ng/ul | 199887 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 55 |
| 2 | Methyl ethyl ketone, N-(3-methyl... | 233 | C12H15N3S | 1000292-93-3 | 43 |
| 3 | Pyrazol-3-amine, 1-(4-fluorobenz... | 191 | C10H10FN3 | 1000272-83-2 | 22 |
| 4 | 2,6-Bis(1,1-dimethylethyl)-4-(1-... | 262 | C17H26O2 | 014035-34-8 | 22 |
| 5 | (Cyclopropyl)trivinylsilane | 150 | C9H14Si | 1000109-93-8 | 14 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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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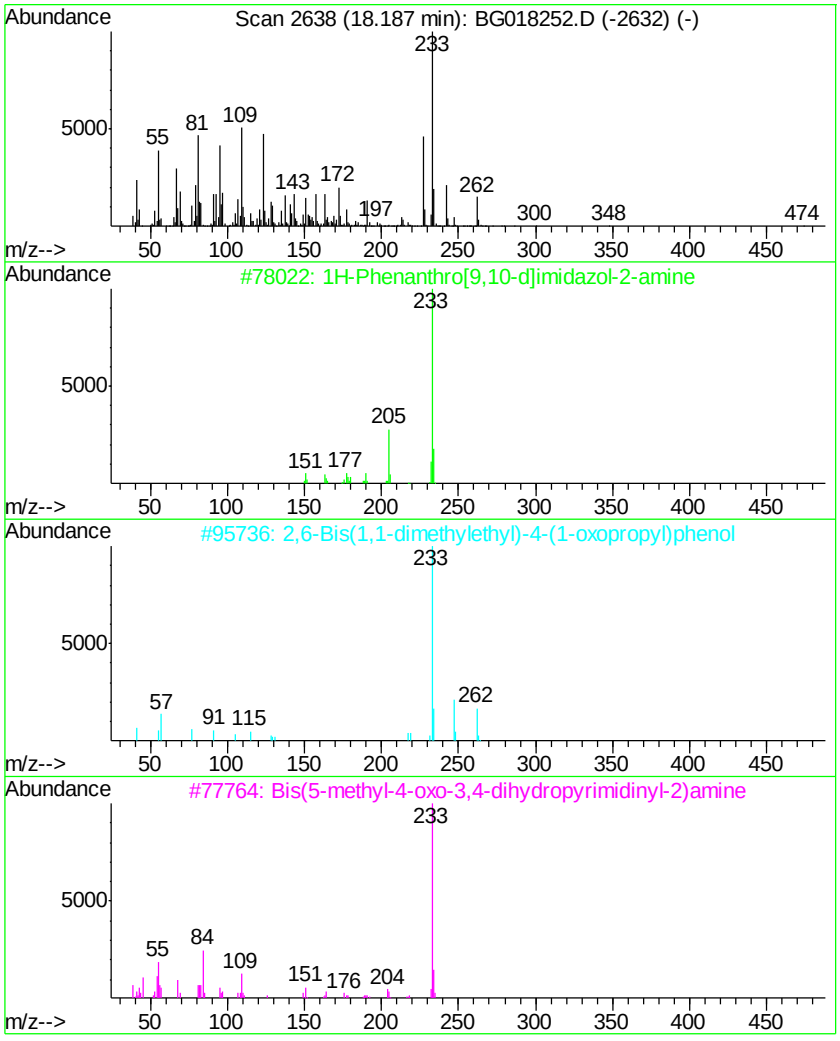
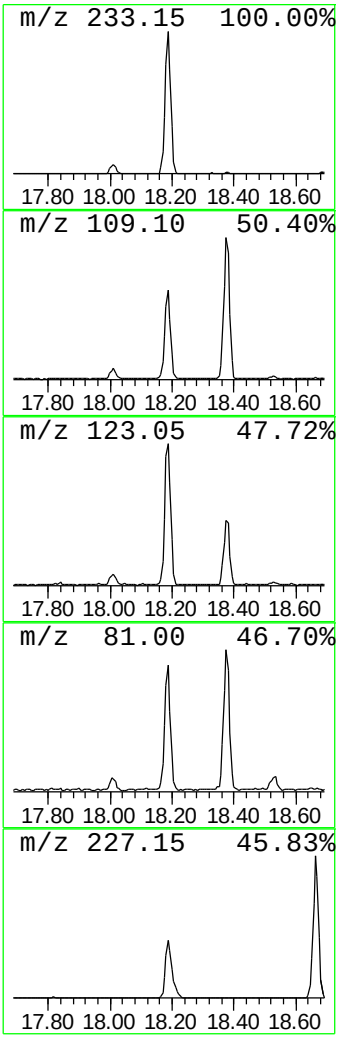
Peak Number 15 unknown-05 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.19 | 97.88 ng/ul | 2311460 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Phenanthro[9,10-d]imidazol-2-... | 233 | C15H11N3 | 037052-13-4 | 43 |
| 2 | 2,6-Bis(1,1-dimethylethyl)-4-(1-... | 262 | C17H26O2 | 014035-34-8 | 25 |
| 3 | Bis(5-methyl-4-oxo-3,4-dihydropy... | 233 | C10H11N5O2 | 1000078-58-5 | 16 |
| 4 | 2,4,5-Trichlorophenyl p-(octylox... | 428 | C21H23Cl3O3 | 079404-93-6 | 14 |
| 5 | 3,5-di-tert-Butyl-4-hydroxyaceto... | 248 | C16H24O2 | 014035-33-7 | 14 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

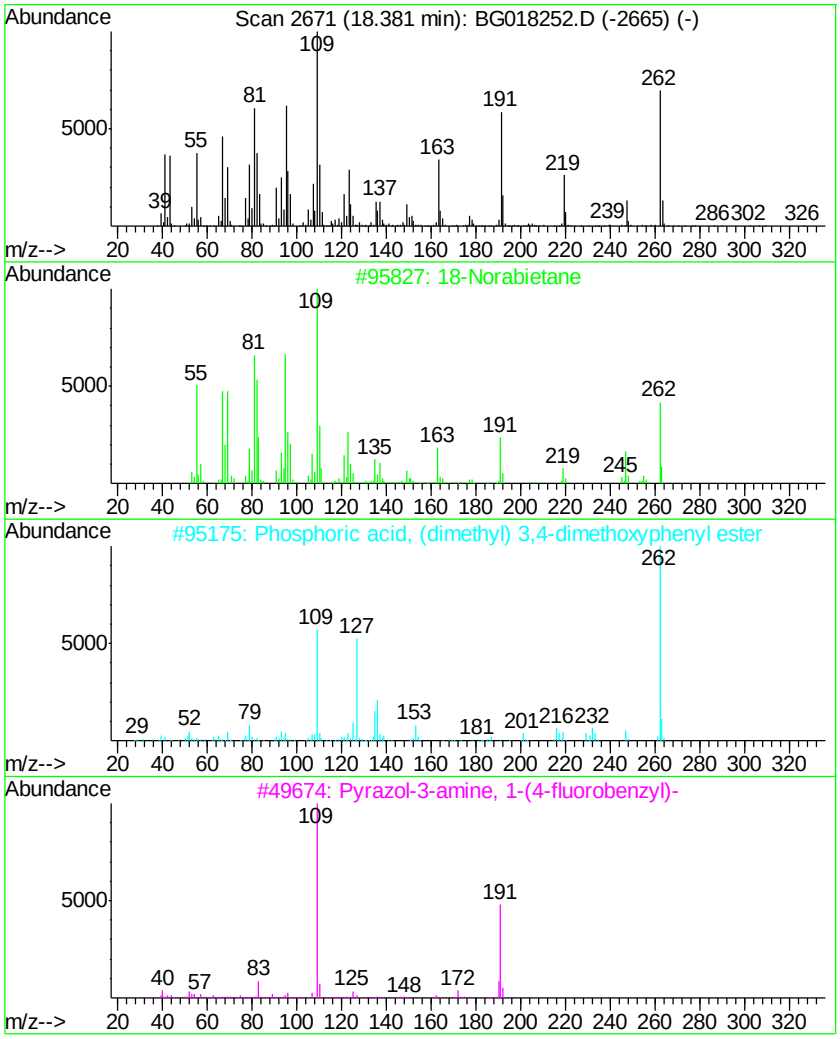
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

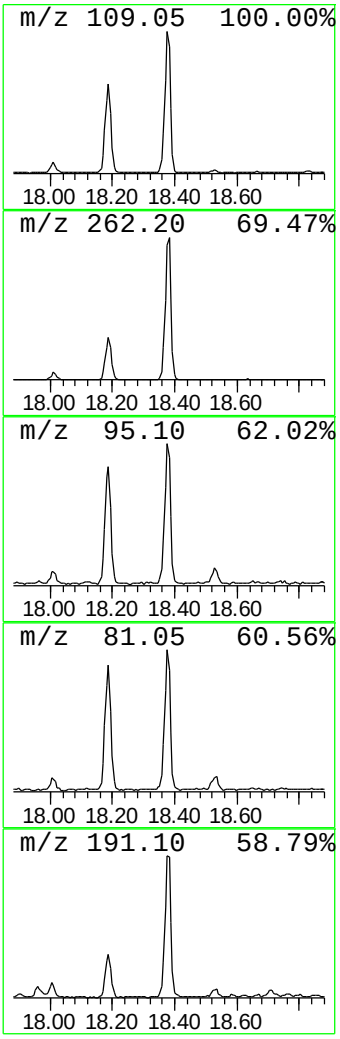
**********

Peak Number 16 unknown-06 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.38 | 81.44 ng/ul | 1923220 | Phenanthrene-d10 | 16.89 |

| 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 | Pyrazol-3-amine, 1-(4-fluorobenz... | 191 | C10H10FN3 | 1000272-83-2 | 27 |
| 4 | 7H-Furo[3,2-g][1]benzopyran-7-on... | 262 | C13H10O6 | 027230-32-6 | 25 |
| 5 | Pyrazol-4-amine, 1-(4-fluorobenz... | 219 | C12H14FN3 | 1000272-83-8 | 22 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

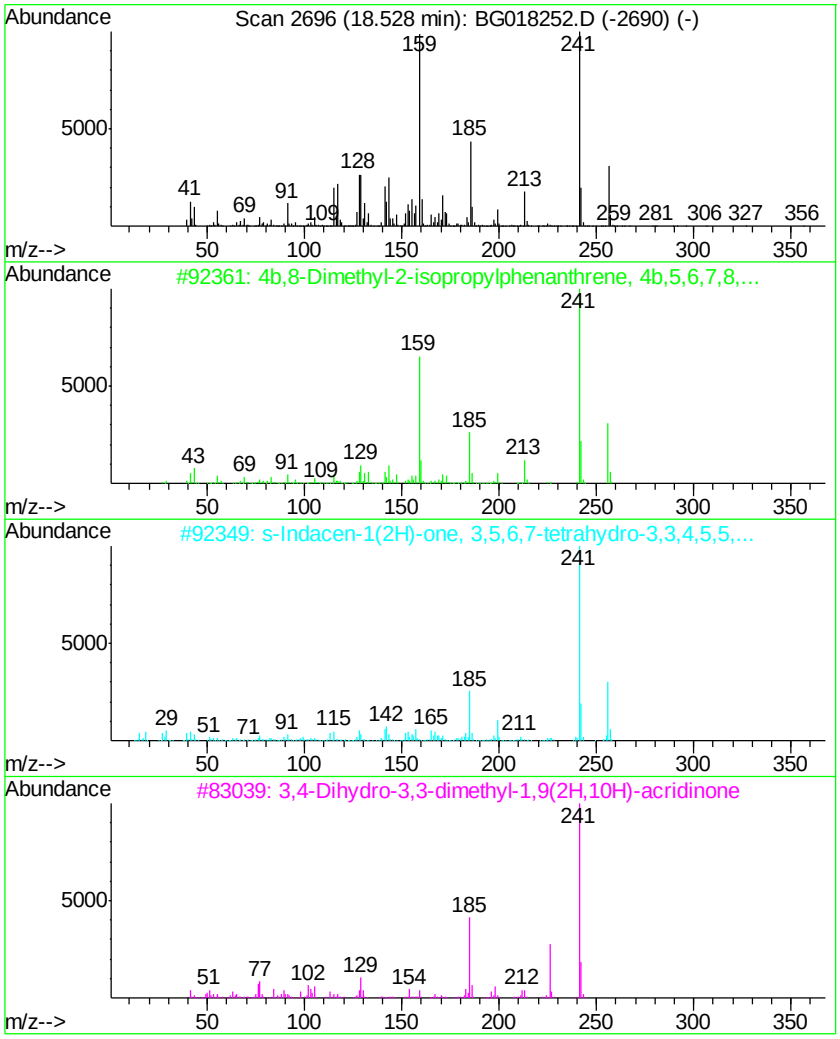
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

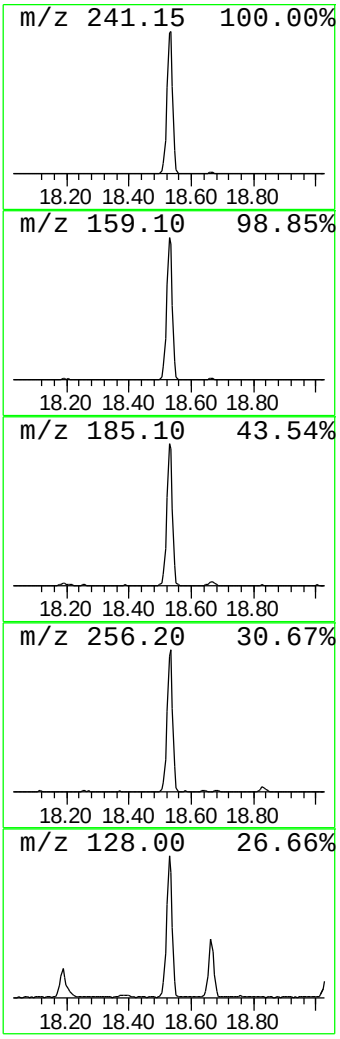
**********

Peak Number 17 4b,8-Dimethyl-2-isopropylph... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.53 | 165.75 ng/ul | 3914170 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 90 |
| 2 | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O | 038754-94-8 | 80 |
| 3 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1000212-95-2 | 43 |
| 4 | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28 | 301643-35-6 | 38 |
| 5 | 1-Methyl-10,18-bisnorabieta-8,11... | 256 | C19H28 | 1000293-16-9 | 30 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

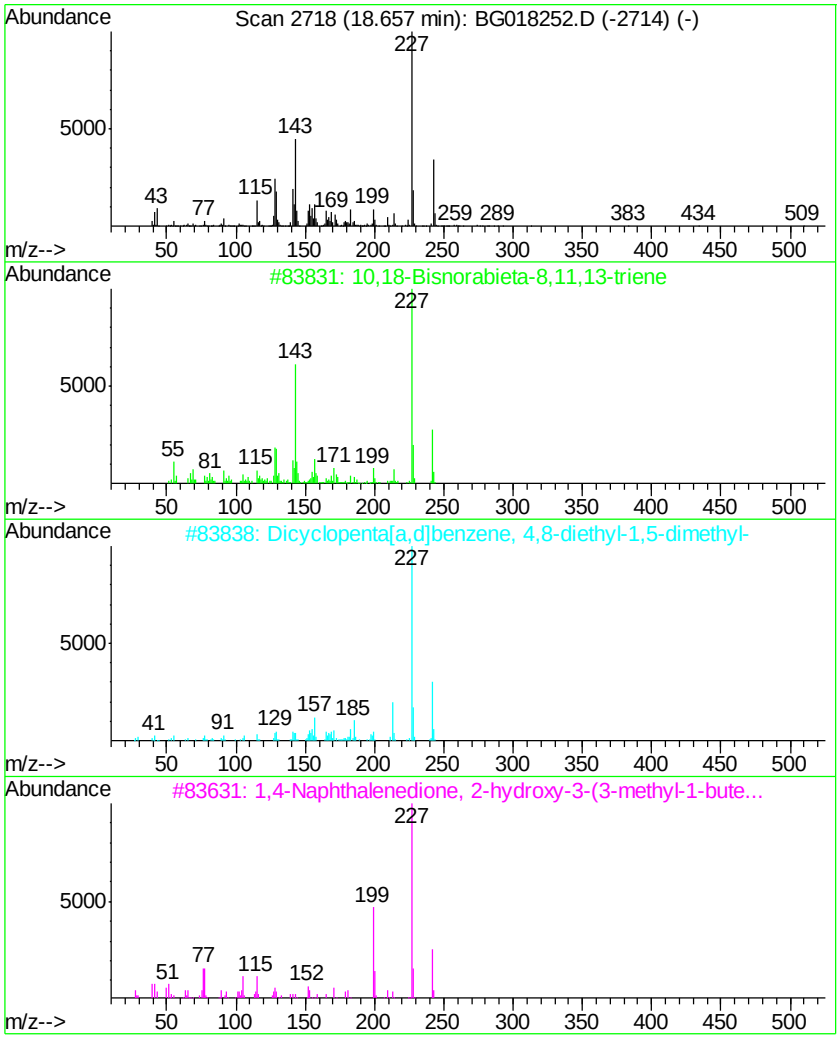
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

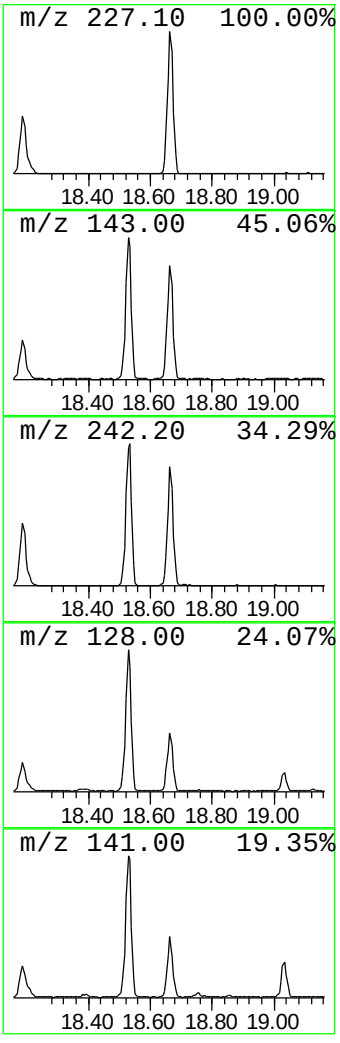
**********

Peak Number 18 10,18-Bisnorabieta-8,11,13-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.66 | 45.48 ng/ul | 1073910 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-8,11,13-triene | 242 | C18H26 | 032624-67-2 | 93 |
| 2 | Dicyclopenta[a,d]benzene, 4,8-di... | 242 | C18H26 | 1000156-41-6 | 83 |
| 3 | 1,4-Naphthalenedione, 2-hydroxy-... | 242 | C15H14O3 | 004042-39-1 | 49 |
| 4 | 5-Methoxy-2-methyl-4-oxo-1,2,3,4... | 242 | C14H14N2O2 | 1000227-06-0 | 46 |
| 5 | 2-(2'-Methoxyphenyl)-2-(2'-hydro... | 242 | C16H18O2 | 1000283-53-4 | 43 |



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Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

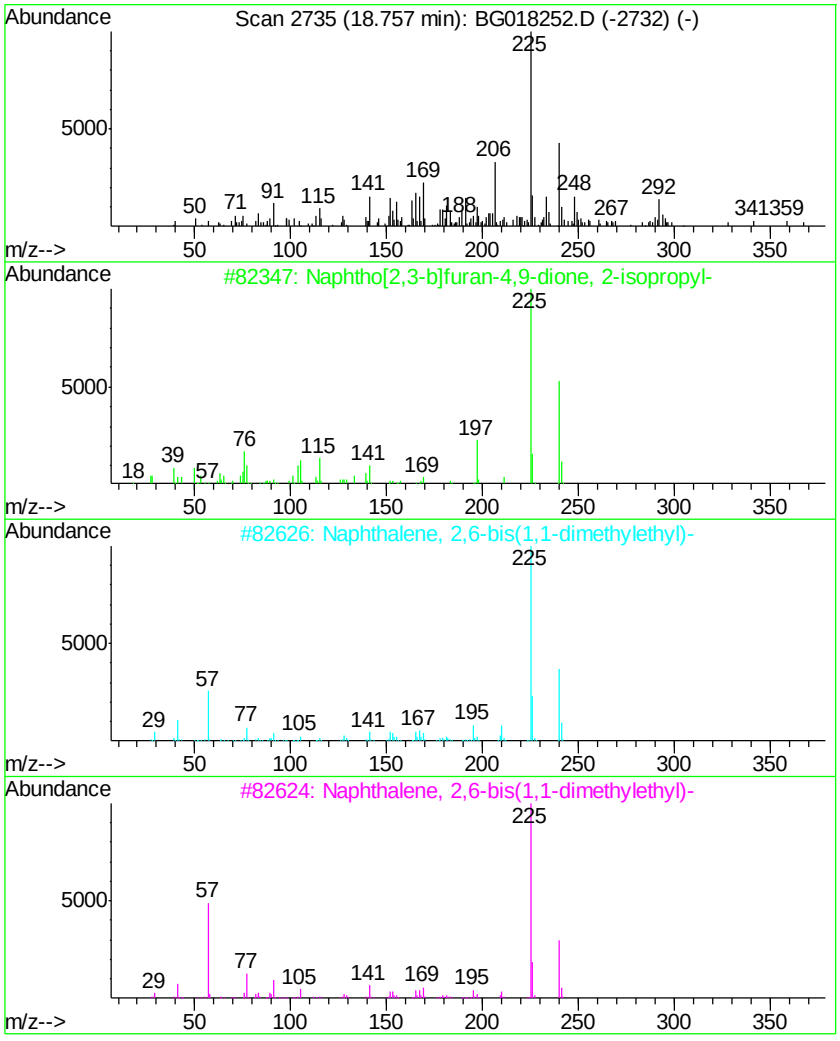
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

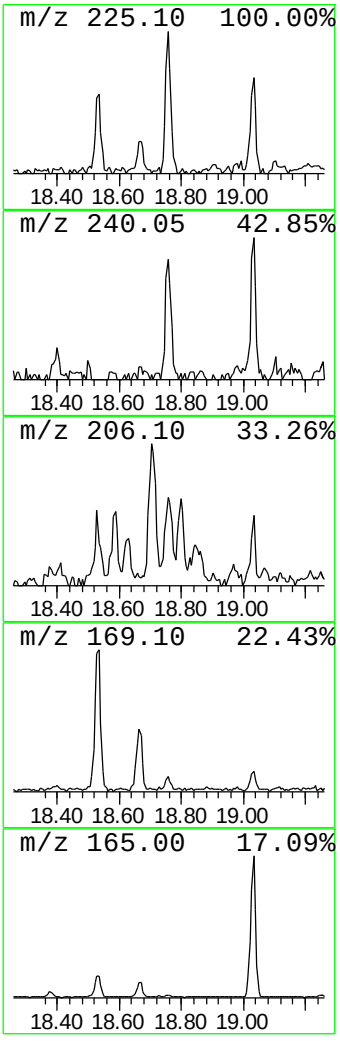
**********

Peak Number 19 unknown-07 Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.76 | 4.04 ng/ul | 95403 | Phenanthrene-d10 | 16.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,3-b]furan-4,9-dione, 2... | 240 | C15H12O3 | 013019-43-7 | 49 |
| 2 | Naphthalene, 2,6-bis(1,1-dimethy... | 240 | C18H24 | 003905-64-4 | 47 |
| 3 | Naphthalene, 2,6-bis(1,1-dimethy... | 240 | C18H24 | 003905-64-4 | 47 |
| 4 | Naphthalene, 2,7-bis(1,1-dimethy... | 240 | C18H24 | 010275-58-8 | 46 |
| 5 | Naphthalene, 2,6-bis(1,1-dimethy... | 240 | C18H24 | 003905-64-4 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

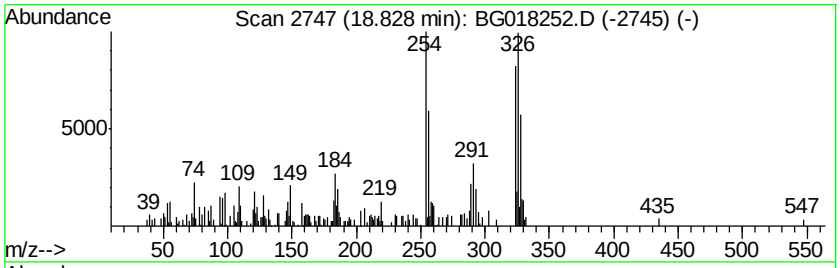
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

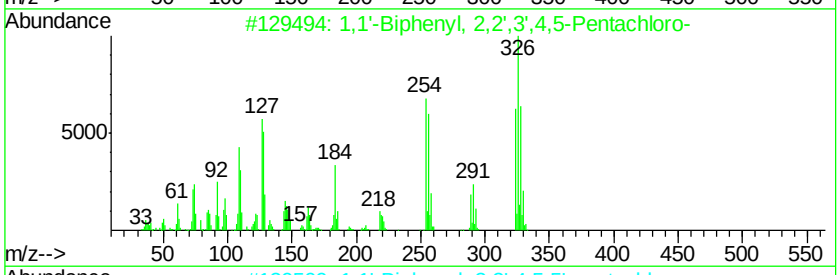
**********

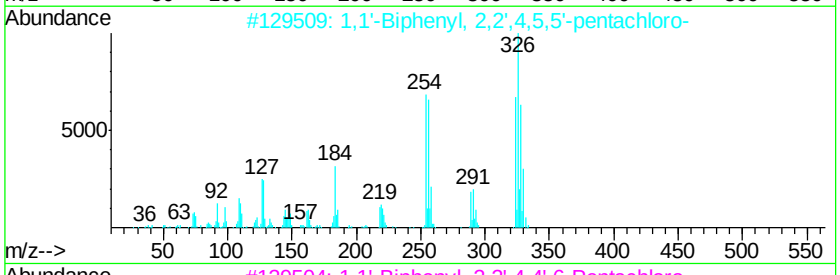
Peak Number 20 1,1'-Biphenyl, 2,2',3',4,5-... Concentration Rank 27

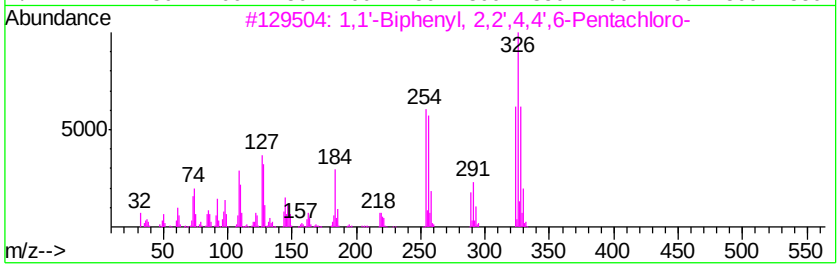
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.83 | 3.69 ng/ul | 87062 | Phenanthrene-d10 | 16.89 |

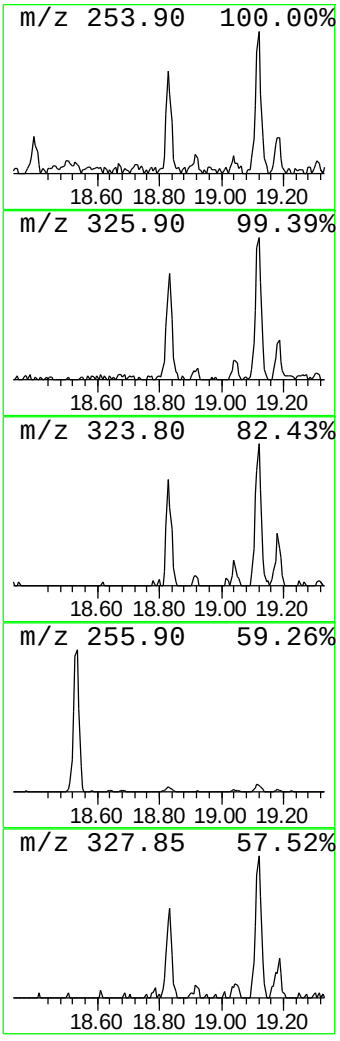
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3',4,5-Penta... | 324 | C12H5Cl5 | 041464-51-1 | 78 |
| 2 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 74 |
| 3 | 1,1'-Biphenyl, 2,2',4,4',6-Penta... | 324 | C12H5Cl5 | 039485-83-1 | 74 |
| 4 | 1,1'-Biphenyl, 2,2',4,5,6'-penta... | 324 | C12H5Cl5 | 068194-06-9 | 64 |
| 5 | 1,1'-Biphenyl, 2,2',3,4,5-Pentac... | 324 | C12H5Cl5 | 055312-69-1 | 64 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

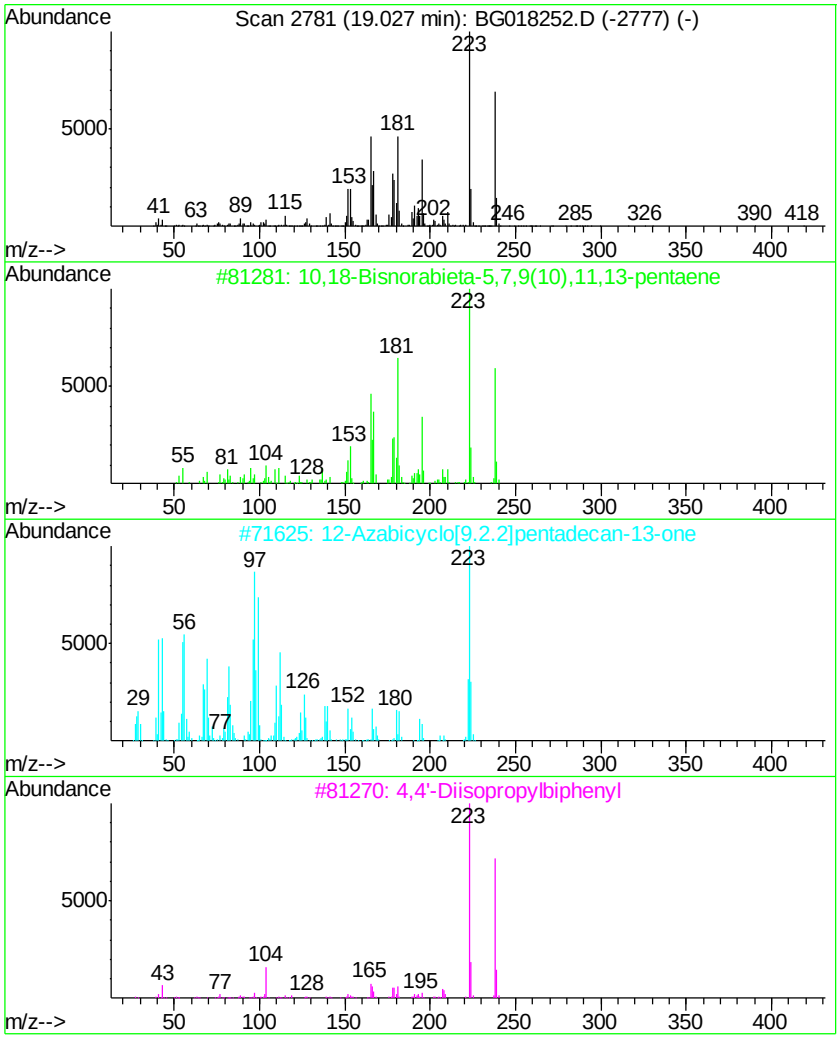
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

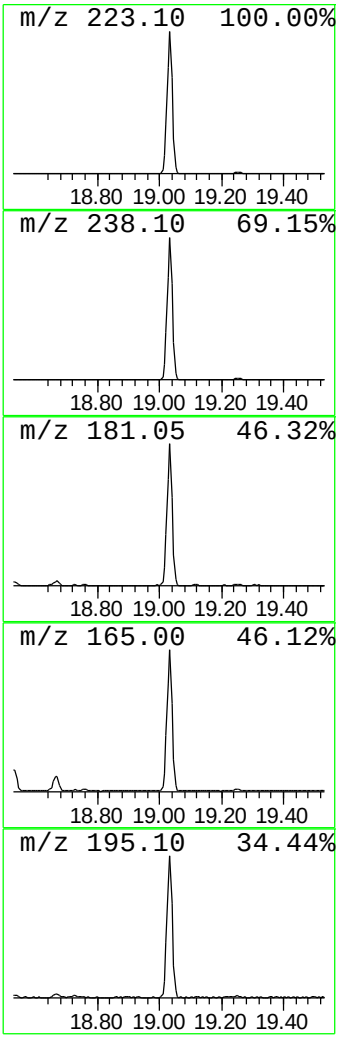
**********

Peak Number 21 12-Azabicyclo[9.2.2]pentade... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.03 | 101.92 ng/ul | 2583330 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 12-Azabicyclo[9.2.2]pentadecan-1... | 223 | C14H25NO | 1000191-26-7 | 60 |
| 3 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 50 |
| 4 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 43 |
| 5 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

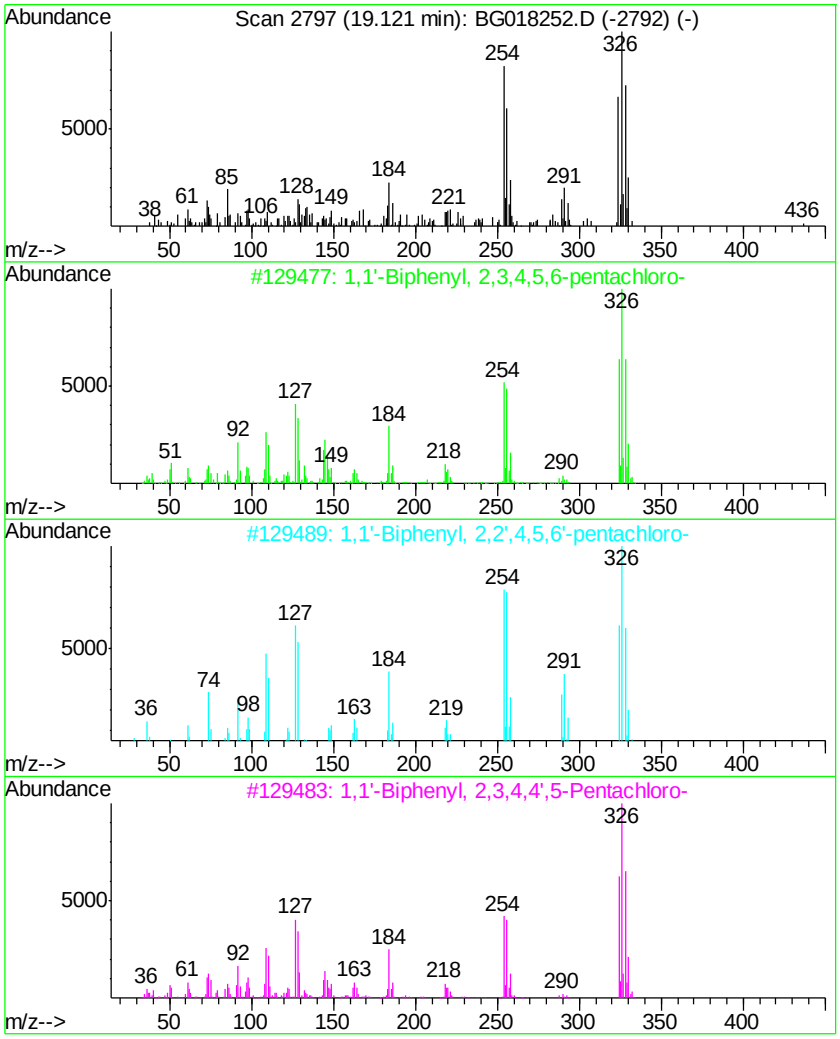
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

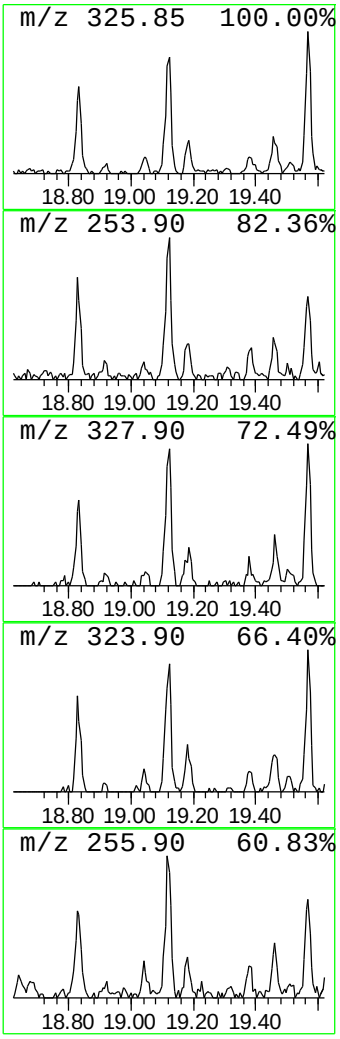
**********

Peak Number 22 1,1'-Biphenyl, 2,3,4,5,6-pe... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.12 | 6.00 ng/ul | 152125 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,4,5,6-pentach... | 324 | C12H5Cl5 | 018259-05-7 | 95 |
| 2 | 1,1'-Biphenyl, 2,2',4,5,6'-penta... | 324 | C12H5Cl5 | 068194-06-9 | 95 |
| 3 | 1,1'-Biphenyl, 2,3,4,4',5-Pentac... | 324 | C12H5Cl5 | 074472-37-0 | 95 |
| 4 | 1,1'-Biphenyl, 2,2',3,5,6-Pentac... | 324 | C12H5Cl5 | 073575-56-1 | 94 |
| 5 | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 94 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

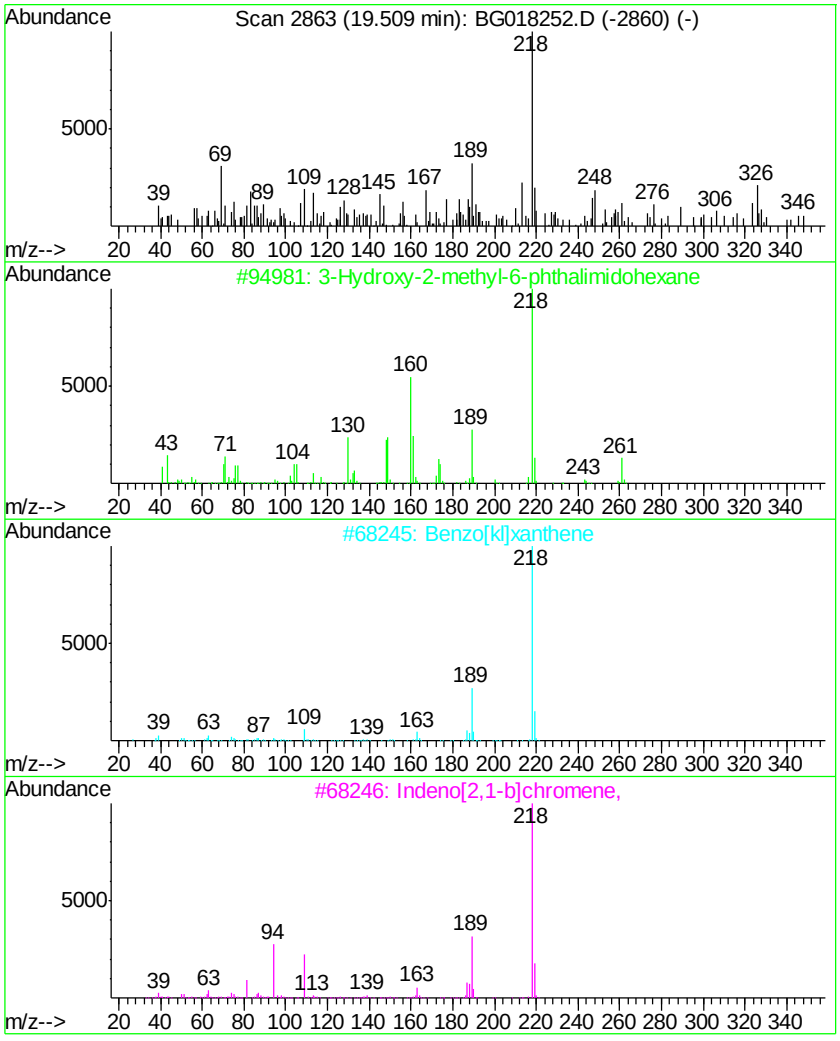
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

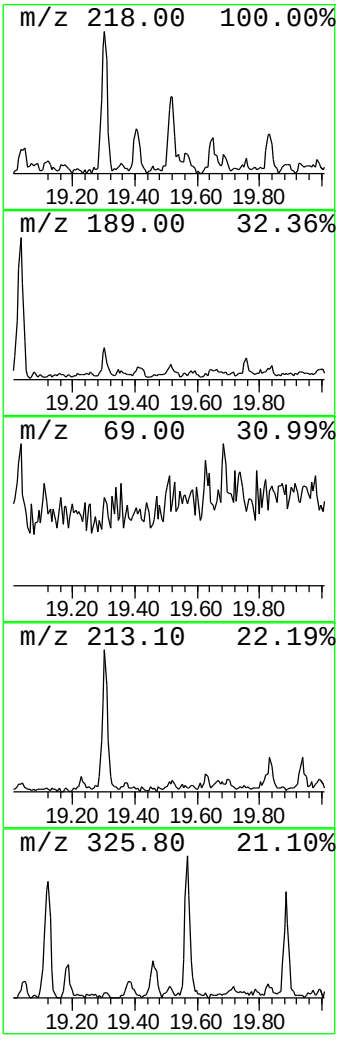
**********

Peak Number 23 unknown-08 Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.51 | 2.61 ng/ul | 66059 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hydroxy-2-methyl-6-phthalimido... | 261 | C15H19NO3 | 1000213-36-9 | 43 |
| 2 | Benzo[kl]xanthene | 218 | C16H10O | 000200-23-7 | 41 |
| 3 | Indeno[2,1-b]chromene, | 218 | C16H10O | 000243-24-3 | 38 |
| 4 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 38 |
| 5 | 1H-Phenanthro[9,10-c]pyrazole | 218 | C15H10N2 | 078529-79-0 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

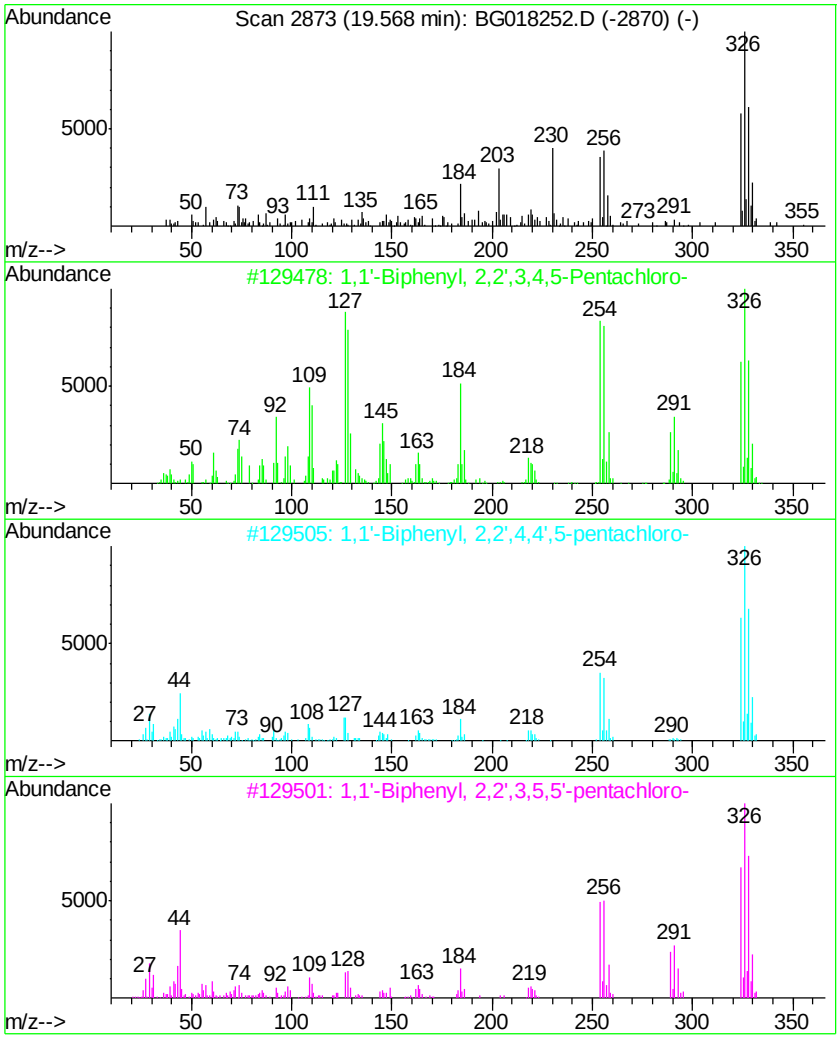
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

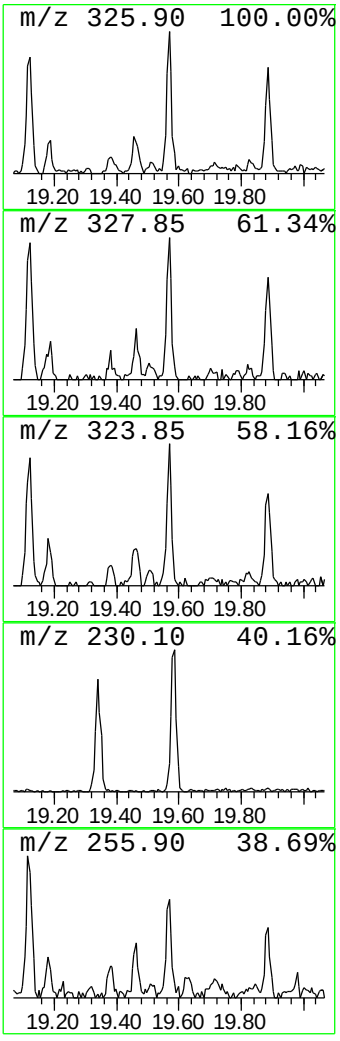
**********

Peak Number 24 1,1'-Biphenyl, 2,2',3,4,5-P... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.57 | 8.11 ng/ul | 205552 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,5-Pentac... | 324 | C12H5Cl5 | 055312-69-1 | 96 |
| 2 | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 96 |
| 3 | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324 | C12H5Cl5 | 052663-61-3 | 90 |
| 4 | 1,1'-Biphenyl, 2,3,3',4,6-Pentac... | 324 | C12H5Cl5 | 074472-35-8 | 89 |
| 5 | 1,1'-Biphenyl, 2,3,4,5,6-pentach... | 324 | C12H5Cl5 | 018259-05-7 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

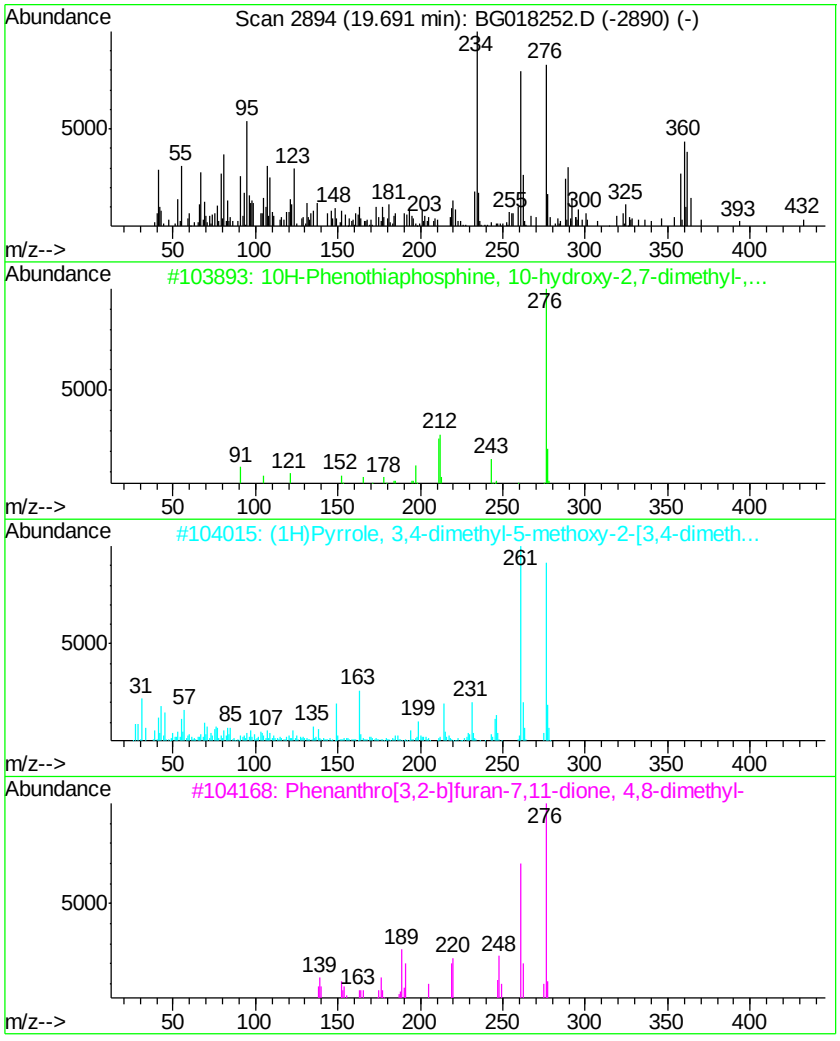
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

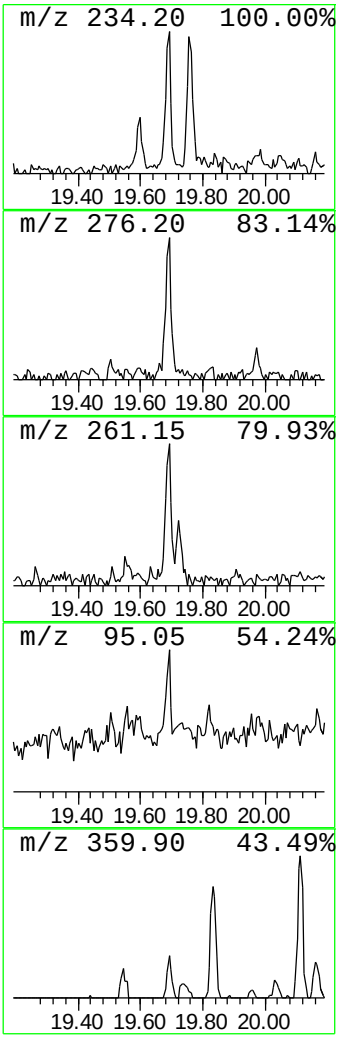
**********

Peak Number 25 unknown-09 Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.69 | 4.86 ng/ul | 123115 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10H-Phenothiaphosphine, 10-hydro... | 276 | C14H13O2PS | 054964-91-9 | 44 |
| 2 | (1H)Pyrrole, 3,4-dimethyl-5-meth... | 276 | C15H20N2OS | 1000197-22-6 | 38 |
| 3 | Phenanthro[3,2-b]furan-7,11-dion... | 276 | C18H12O3 | 020958-17-2 | 27 |
| 4 | 6H-Dibenzo[c,E]1,2-thiazine, 7-n... | 276 | C12H8N2O4S | 1000272-08-5 | 15 |
| 5 | Diphenyl(4-tolyl)phosphine | 276 | C19H17P | 001031-93-2 | 15 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

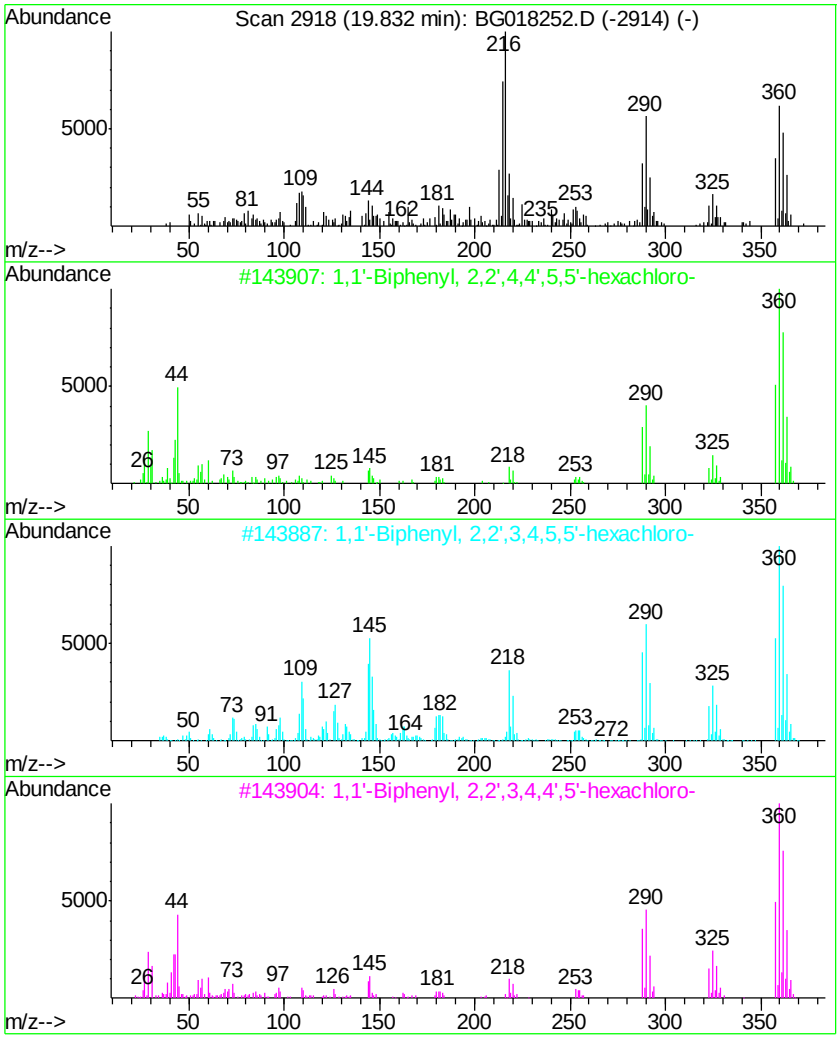
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

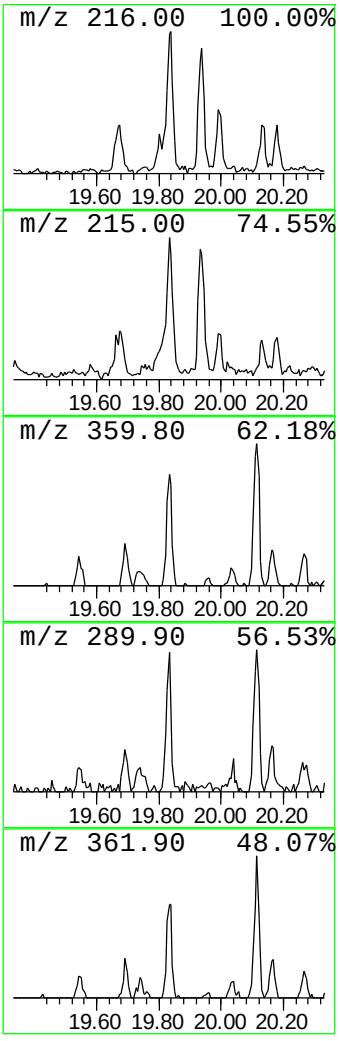
**********

Peak Number 26 1,1'-Biphenyl, 2,2',4,4',5,... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.83 | 7.01 ng/ul | 177674 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,4',5,5'-he... | 358 | C12H4Cl6 | 035065-27-1 | 97 |
| 2 | 1,1'-Biphenyl, 2,2',3,4,5,5'-hex... | 358 | C12H4Cl6 | 052712-04-6 | 96 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 95 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 95 |
| 5 | 1,1'-Biphenyl, 2,2',3,4',5',6-he... | 358 | C12H4Cl6 | 038380-04-0 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

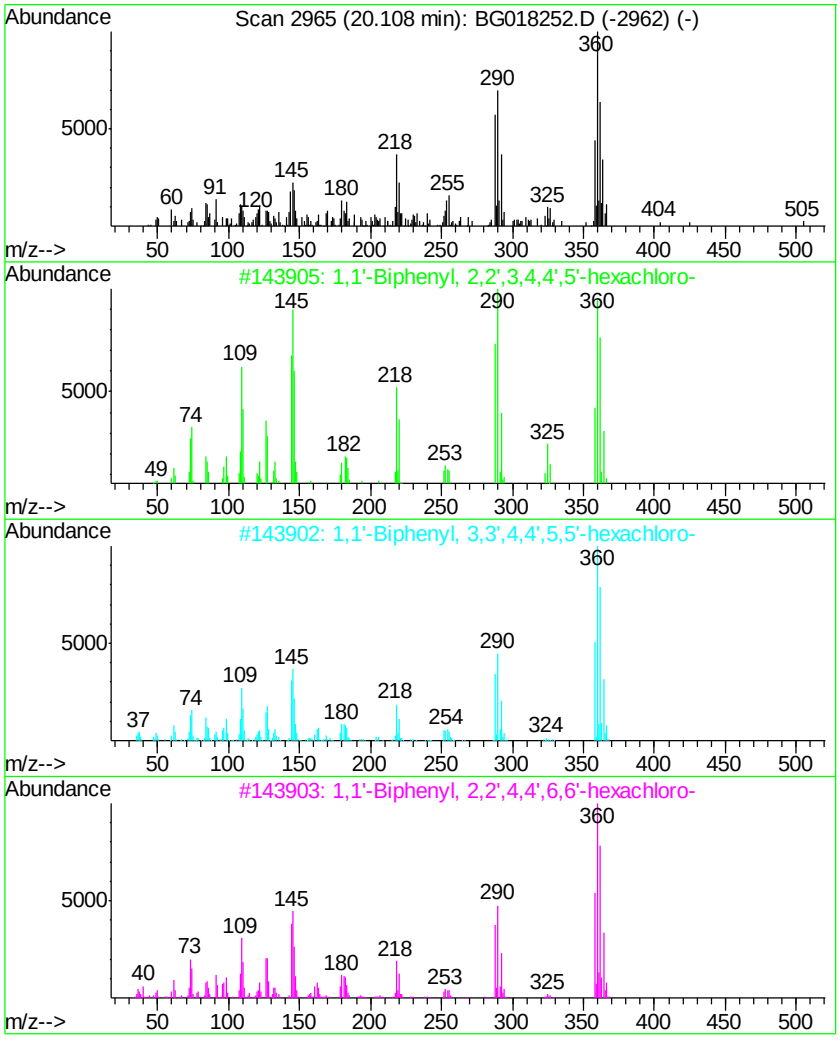
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

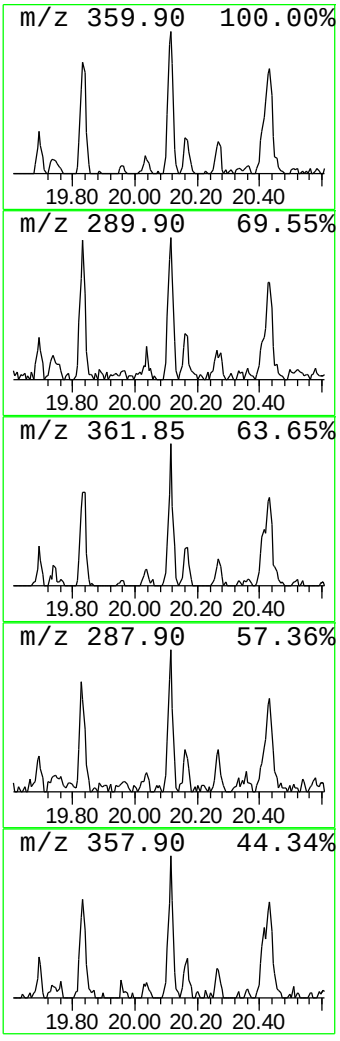
**********

Peak Number 27 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.11 | 4.50 ng/ul | 114120 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 95 |
| 2 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 95 |
| 3 | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358 | C12H4Cl6 | 033979-03-2 | 95 |
| 4 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 94 |
| 5 | 1,1'-Biphenyl, 2,2',3,3',6,6'-he... | 358 | C12H4Cl6 | 038411-22-2 | 94 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

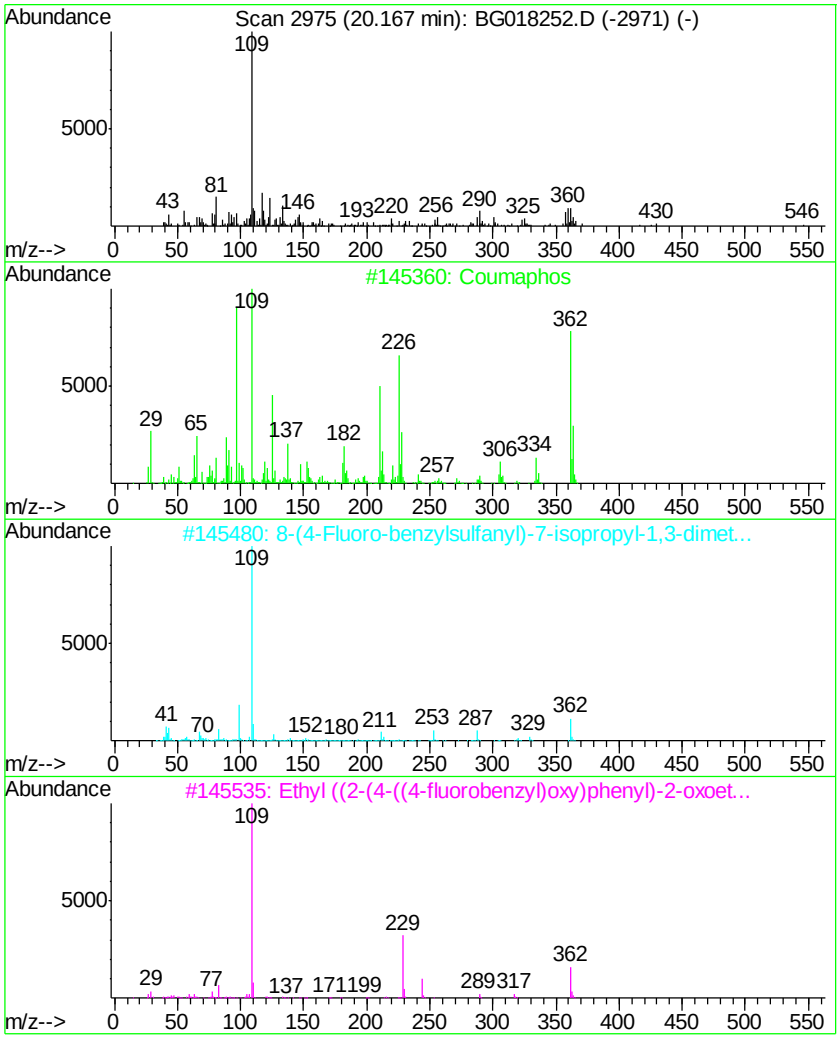
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

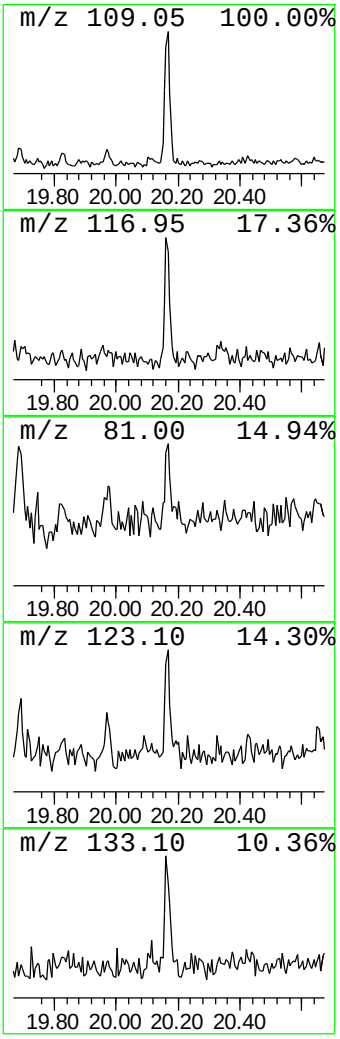
**********

Peak Number 28 Coumaphos Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.17 | 6.66 ng/ul | 168726 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Coumaphos | 362 | C14H16ClO5PS | 000056-72-4 | 62 |
| 2 | 8-(4-Fluoro-benzylsulfanyl)-7-is... | 362 | C17H19FN4O2S | 1000294-72-6 | 52 |
| 3 | Ethyl ((2-(4-((4-fluorobenzyl)ox... | 362 | C19H19FO4S | 1000298-20-1 | 50 |
| 4 | 1-Bromo-9-thiabicyclo[3.3.1]nona... | 252 | C8H13BrO2S | 019669-16-0 | 47 |
| 5 | (1,2,3-Trimethyl-cyclopent-2-eny... | 140 | C9H16O | 1000190-91-3 | 47 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

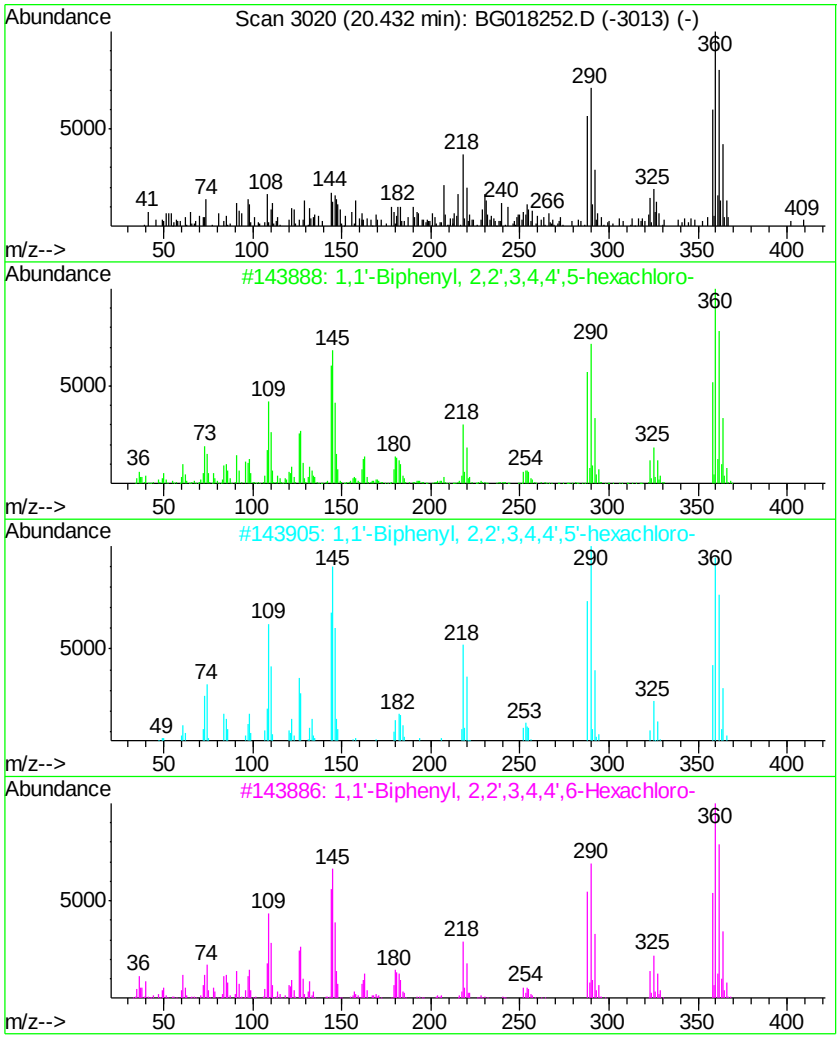
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

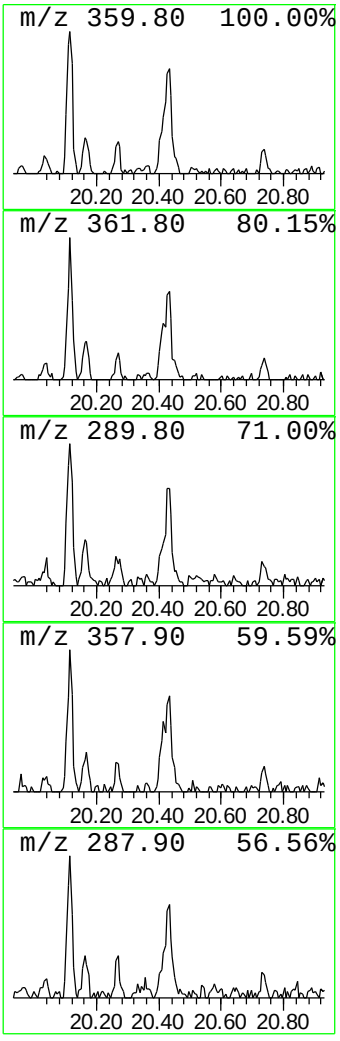
**********

Peak Number 29 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.43 | 5.45 ng/ul | 138234 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,4',5-hex... | 358 | C12H4Cl6 | 035694-06-5 | 96 |
| 2 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 96 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 96 |
| 4 | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 95 |
| 5 | 1,1'-Biphenyl, 2,3,3',4,4',5'-he... | 358 | C12H4Cl6 | 069782-90-7 | 95 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

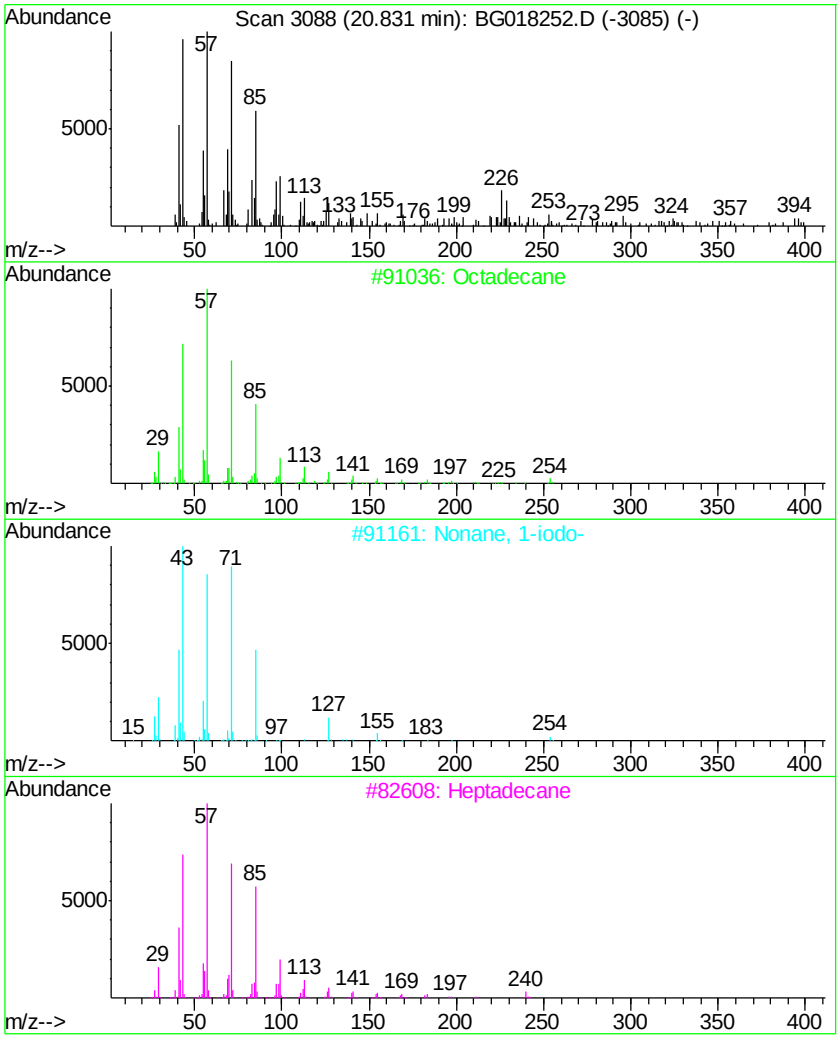
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

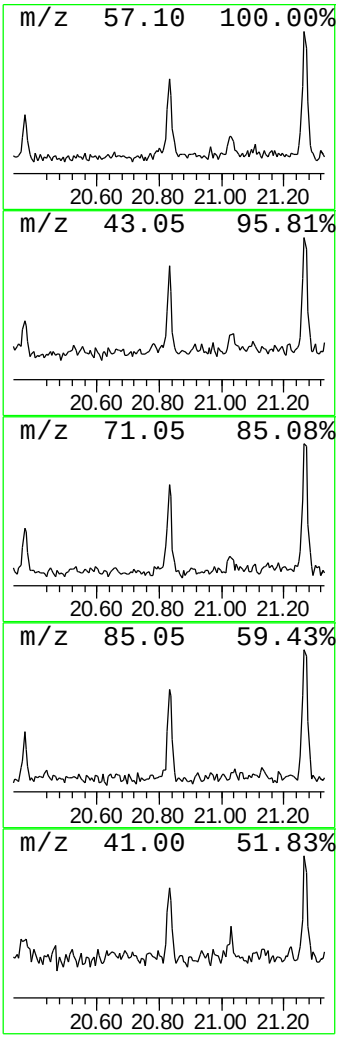
**********

Peak Number 31 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.83 | 5.86 ng/ul | 148451 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 94 |
| 2 | Nonane, 1-iodo- | 254 | C9H19I | 004282-42-2 | 91 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 89 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 86 |
| 5 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 86 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

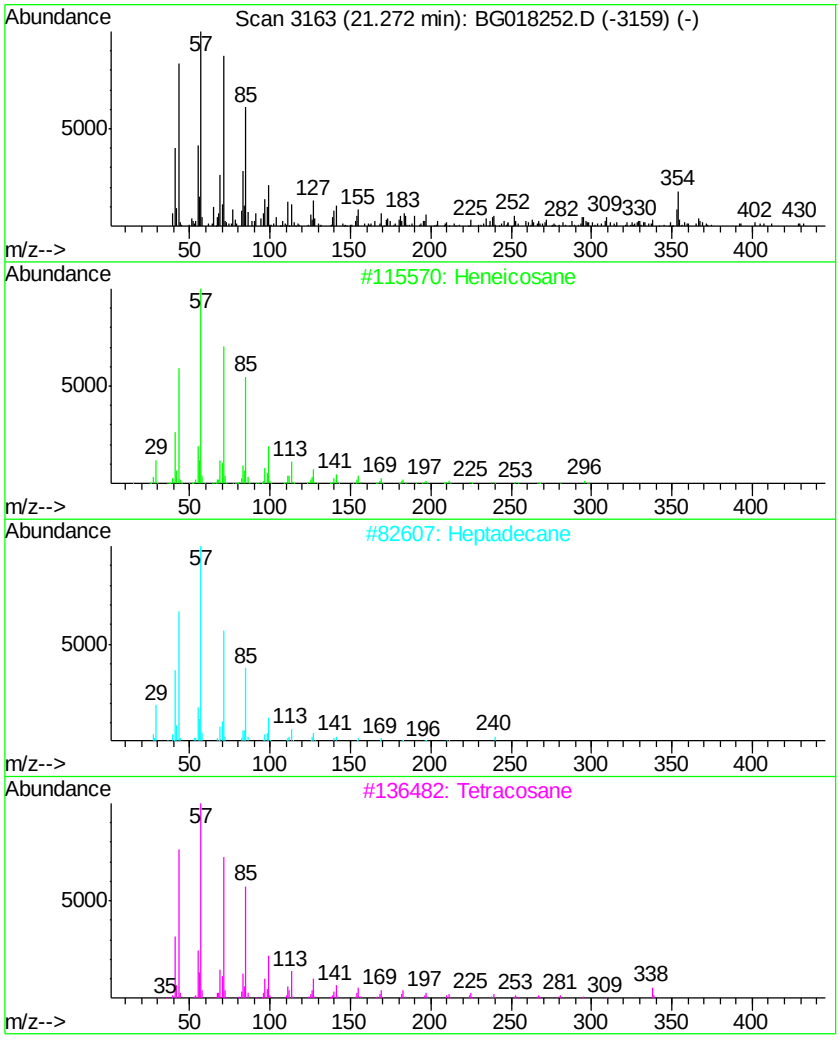
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

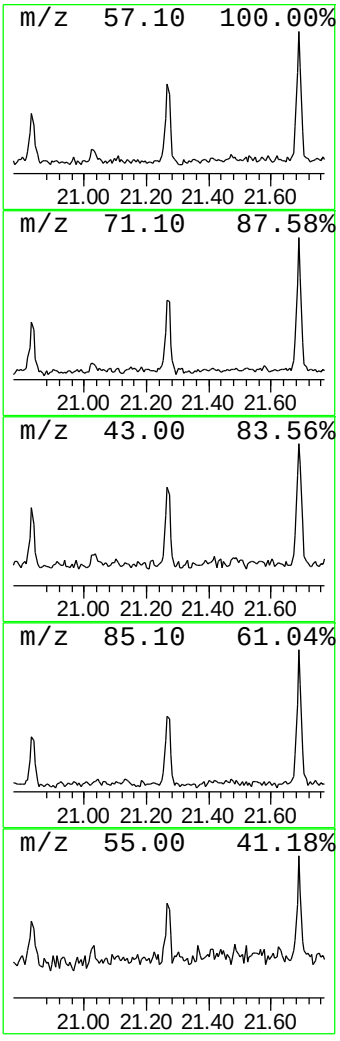
**********

Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.27 | 6.57 ng/ul | 166416 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 96 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 96 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 95 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 92 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

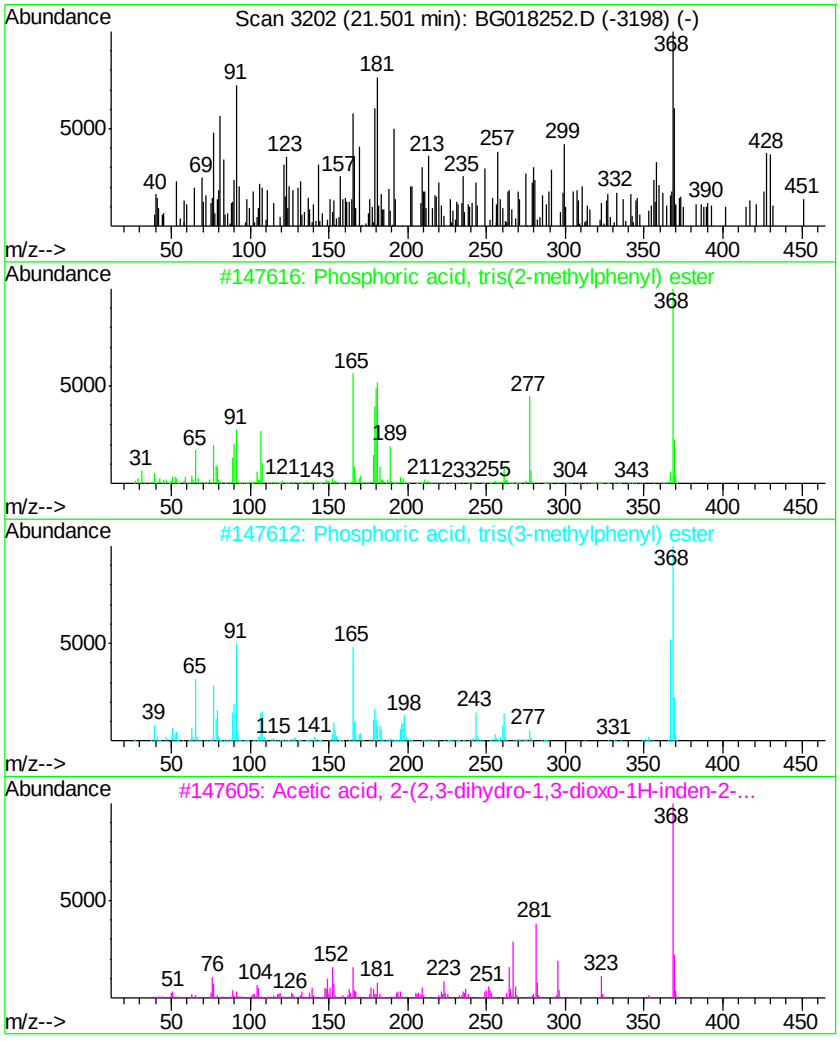
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

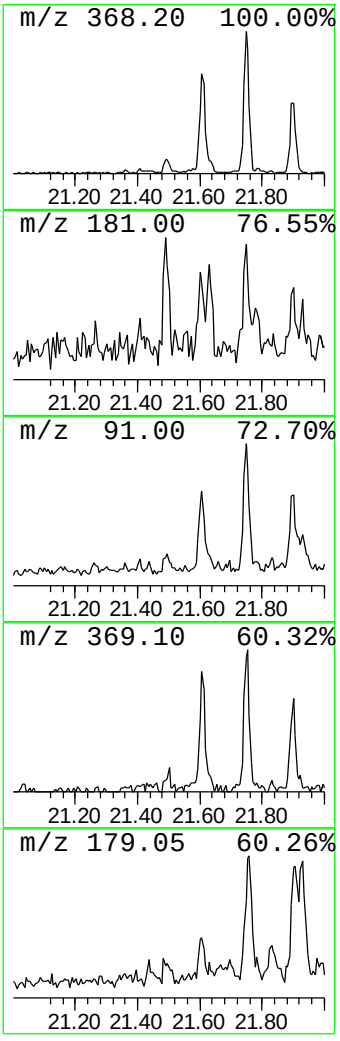
**********

Peak Number 33 Phosphoric acid, tris(2-met... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.50 | 2.70 ng/ul | 68446 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphoric acid, tris(2-methylph... | 368 | C21H21O4P | 000078-30-8 | 86 |
| 2 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 46 |
| 3 | Acetic acid, 2-(2,3-dihydro-1,3-... | 368 | C21H20O6 | 007185-23-1 | 42 |
| 4 | 7-Chloro-3,4-dihydro-2-[4-nitrop... | 368 | C19H13ClN2O4 | 144155-18-0 | 38 |
| 5 | 2-Oxo-5-(4-tolyloxy)-4-phenyl-6-... | 368 | C24H20N2O2 | 1000070-60-9 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

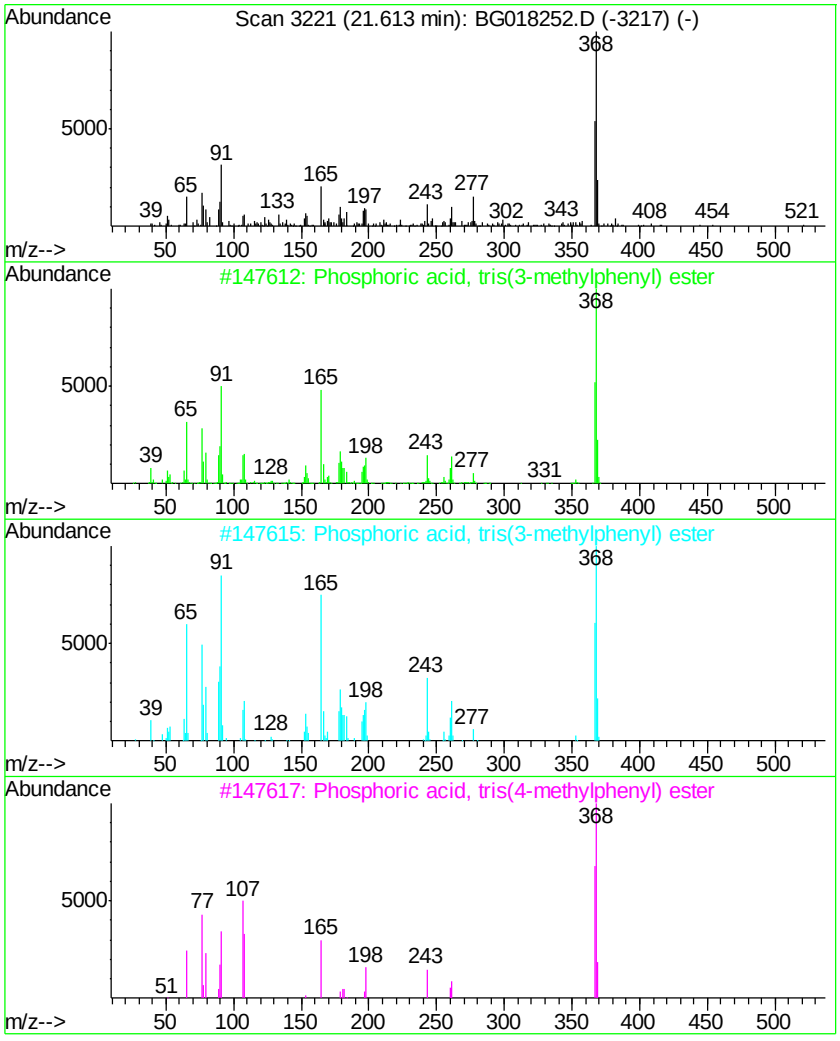
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

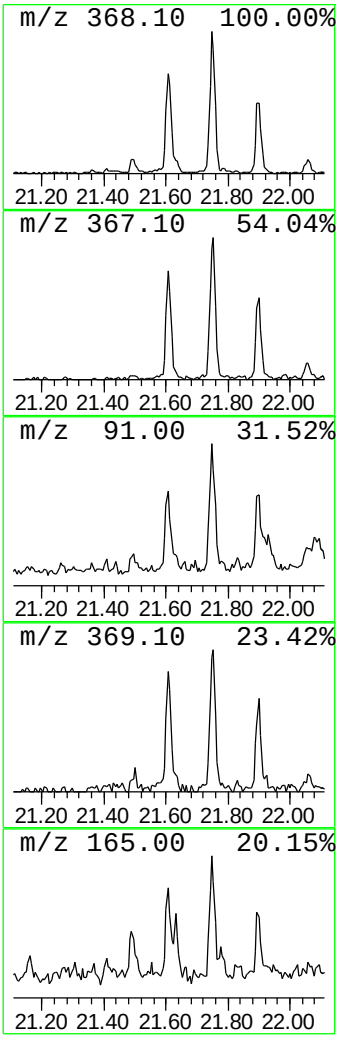
**********

Peak Number 34 Phosphoric acid, tris(3-met... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.61 | 5.45 ng/ul | 138170 | Chrysene-d12 | 21.10 |

| 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 | 96 |
| 3 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 87 |
| 4 | [7aS-(7a.alpha.,8a.alpha.,9E,12.... | 368 | C21H24N2O4 | 030809-15-5 | 78 |
| 5 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 74 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

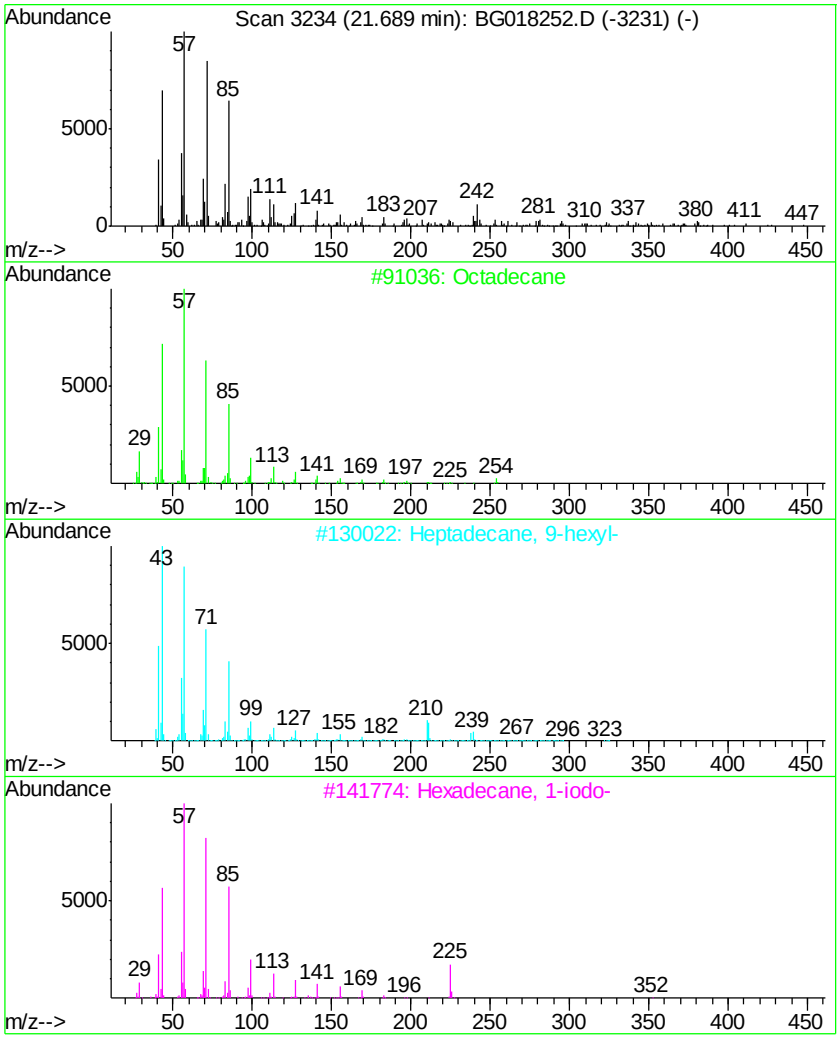
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

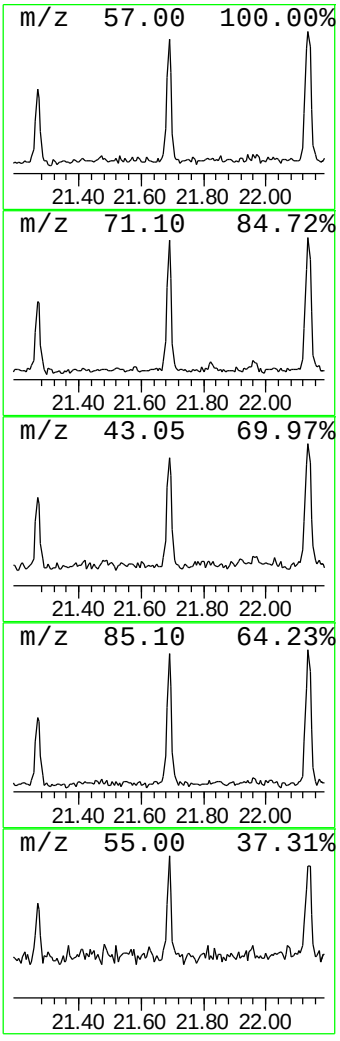
**********

Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.69 | 9.75 ng/ul | 247171 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 95 |
| 2 | Heptadecane, 9-hexyl- | 324 | C23H48 | 055124-79-3 | 91 |
| 3 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 91 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 90 |
| 5 | Tetratriacontane | 479 | C34H70 | 014167-59-0 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

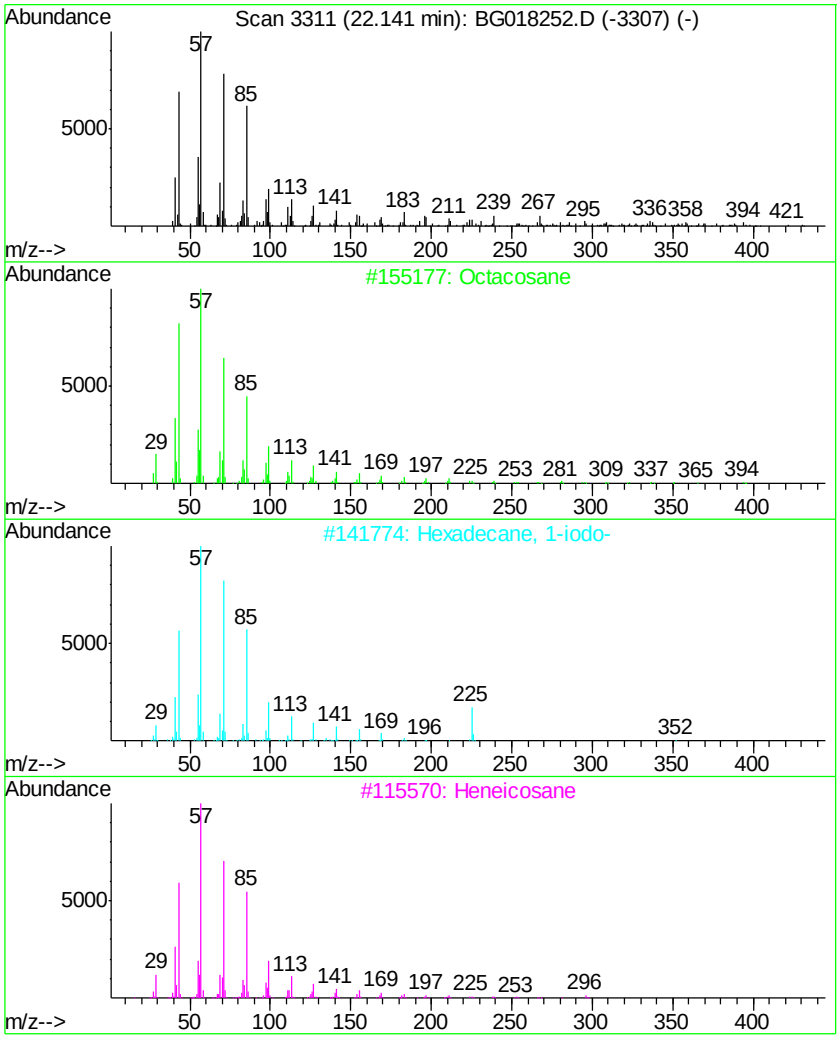
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

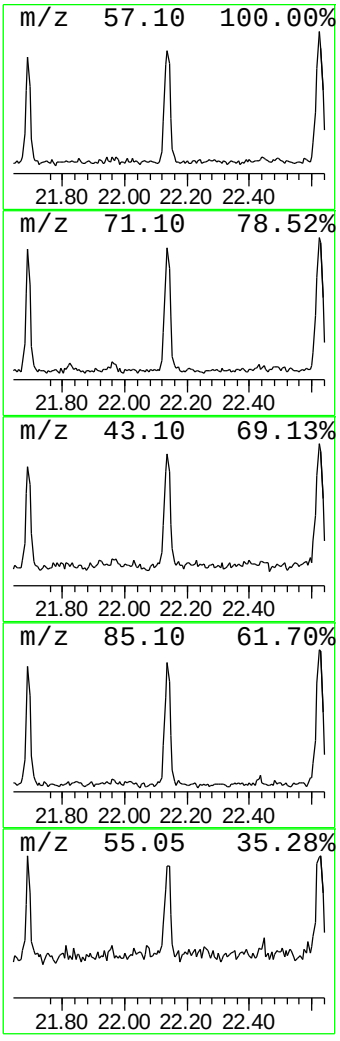
**********

Peak Number 38 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.14 | 11.53 ng/ul | 292258 | Chrysene-d12 | 21.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 97 |
| 2 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 96 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 95 |
| 4 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 93 |
| 5 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

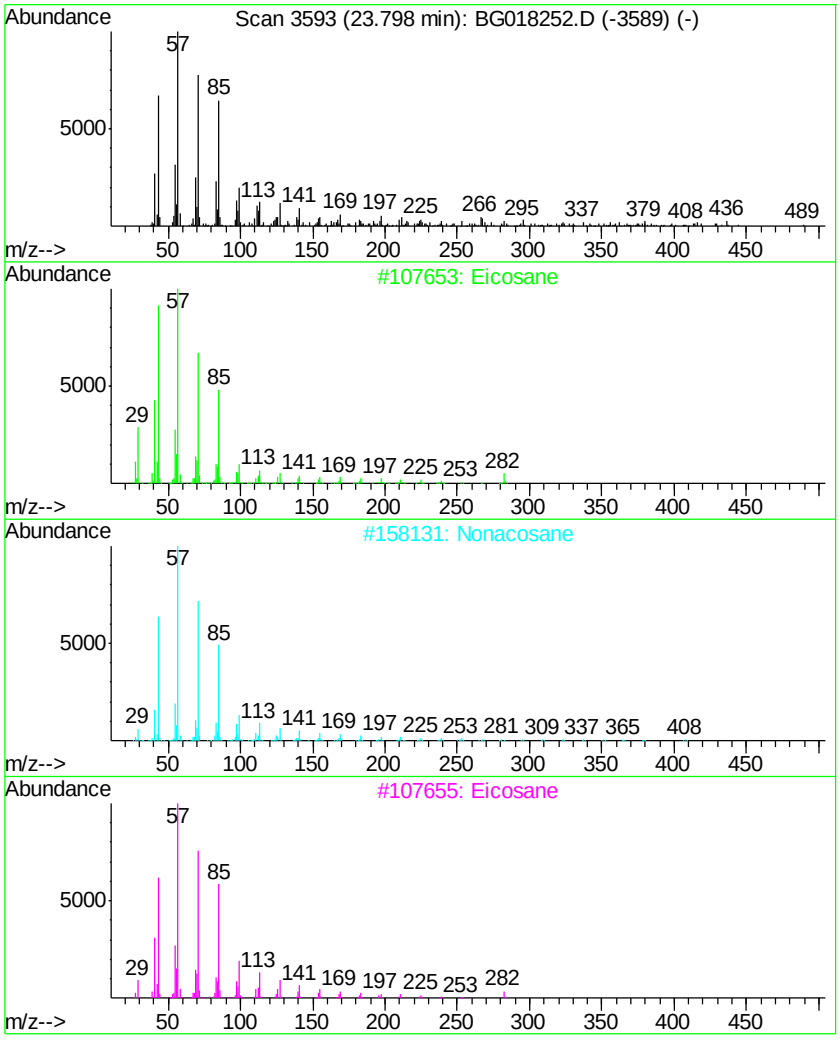
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

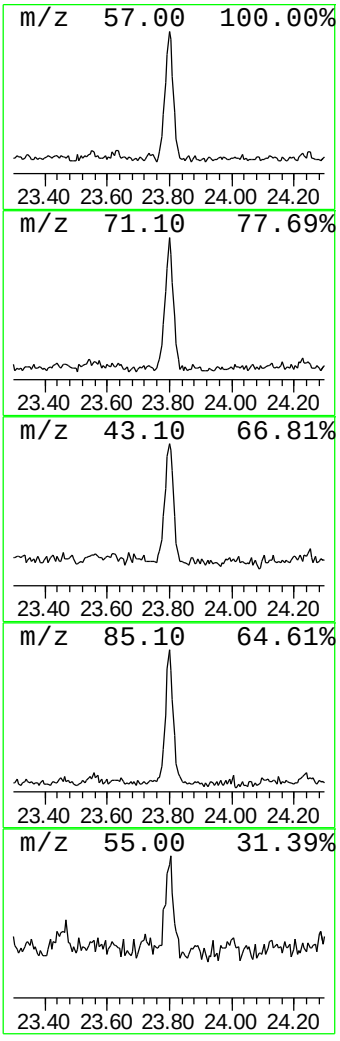
**********

Peak Number 39 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.80 | 27.37 ng/ul | 354346 | Perylene-d12 | 23.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 95 |
| 2 | Nonacosane | 408 | C29H60 | 000630-03-5 | 95 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 94 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 83 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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

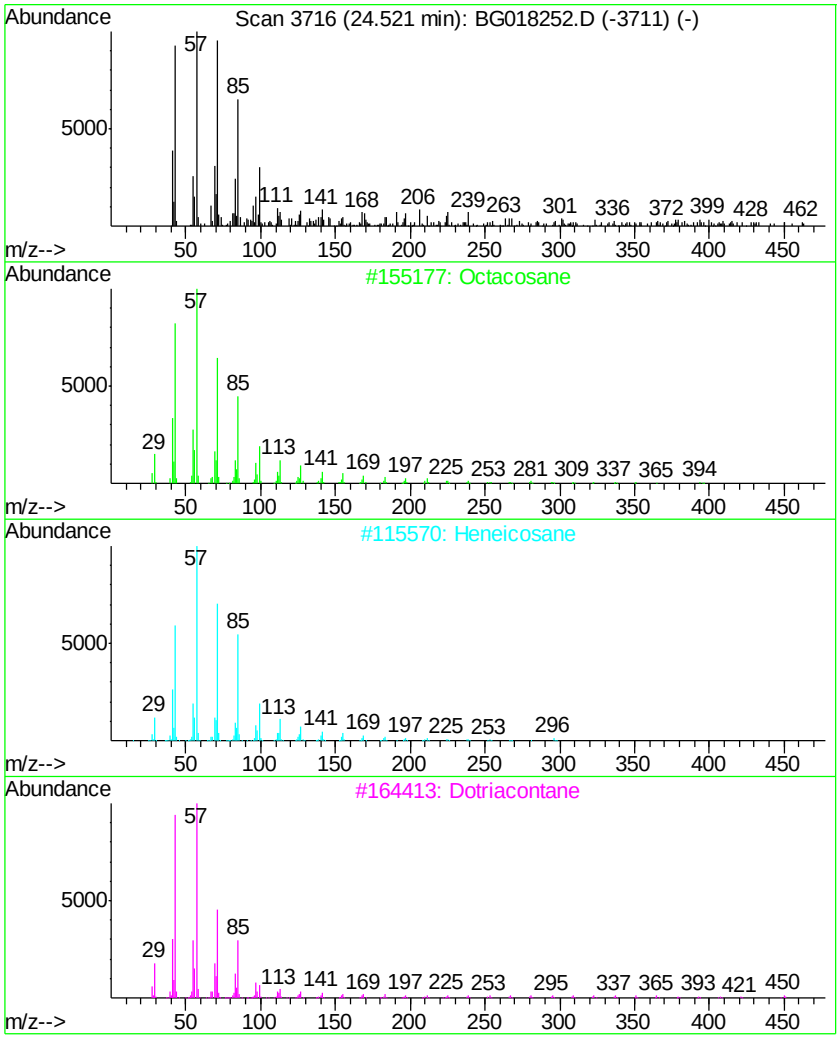
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

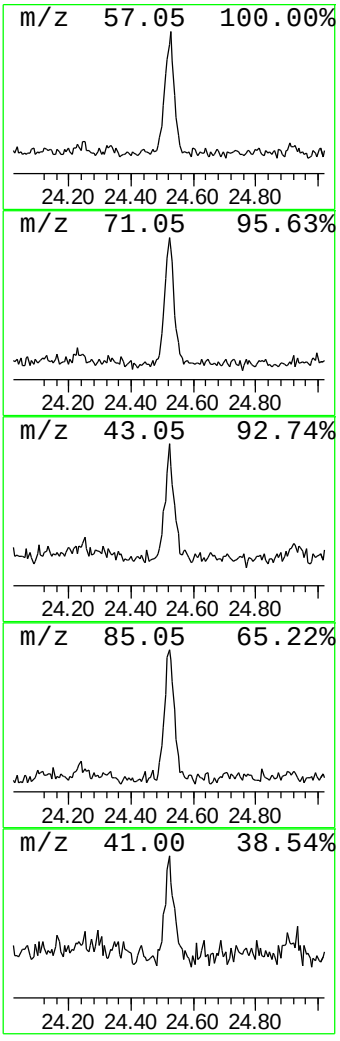
**********

Peak Number 40 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.52 | 23.17 ng/ul | 299974 | Perylene-d12 | 23.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 93 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Dotriacontane | 451 | C32H66 | 000544-85-4 | 90 |
| 4 | Nonadecane | 268 | C19H40 | 000629-92-5 | 89 |
| 5 | Nonacosane | 408 | C29H60 | 000630-03-5 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080315\
Data File : BG018252.D
Acq On : 3 Aug 2015 20:55
Operator : UM/TP
Sample : G3109-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02K4

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... | 3.28 | 3.2 | ng/ul | 31368 | 1 | 7.46 | 197048 | 20.0 |
| unknown-01 | 3.46 | 2.3 | ng/ul | 22349 | 1 | 7.46 | 197048 | 20.0 |
| Naphthalene, 2,7-... | 13.45 | 2.2 | ng/ul | 52553 | 3 | 14.13 | 477666 | 20.0 |
| Naphthalene, 1,4,... | 14.76 | 2.1 | ng/ul | 50716 | 3 | 14.13 | 477666 | 20.0 |
| 1-(2,2-Dimethylcy... | 14.93 | 2.0 | ng/ul | 48211 | 3 | 14.13 | 477666 | 20.0 |
| unknown-02 | 15.41 | 2.1 | ng/ul | 49877 | 3 | 14.13 | 477666 | 20.0 |
| (DEL) Alkane: Str... | 15.88 | 3.3 | ng/ul | 77428 | 4 | 16.89 | 472291 | 20.0 |
| (DEL) Alkane: Str... | 16.72 | 4.0 | ng/ul | 95198 | 4 | 16.89 | 472291 | 20.0 |
| unknown-03 | 17.09 | 2.9 | ng/ul | 69465 | 4 | 16.89 | 472291 | 20.0 |
| 1-Naphthaleneacet... | 17.31 | 2.0 | ng/ul | 47525 | 4 | 16.89 | 472291 | 20.0 |
| n-Hexadecanoic acid | 17.82 | 8.5 | ng/ul | 200411 | 4 | 16.89 | 472291 | 20.0 |
| unknown-04 | 17.97 | 6.1 | ng/ul | 143411 | 4 | 16.89 | 472291 | 20.0 |
| 18-Norabietane | 18.01 | 8.5 | ng/ul | 199887 | 4 | 16.89 | 472291 | 20.0 |
| unknown-05 | 18.19 | 97.9 | ng/ul | 2311460 | 4 | 16.89 | 472291 | 20.0 |
| unknown-06 | 18.38 | 81.4 | ng/ul | 1923220 | 4 | 16.89 | 472291 | 20.0 |
| 4b,8-Dimethyl-2-i... | 18.53 | 165.8 | ng/ul | 3914170 | 4 | 16.89 | 472291 | 20.0 |
| 10,18-Bisnorabiet... | 18.66 | 45.5 | ng/ul | 1073910 | 4 | 16.89 | 472291 | 20.0 |
| unknown-07 | 18.76 | 4.0 | ng/ul | 95403 | 4 | 16.89 | 472291 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.83 | 3.7 | ng/ul | 87062 | 4 | 16.89 | 472291 | 20.0 |
| 12-Azabicyclo[9.2... | 19.03 | 101.9 | ng/ul | 2583330 | 5 | 21.10 | 506923 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.12 | 6.0 | ng/ul | 152125 | 5 | 21.10 | 506923 | 20.0 |
| unknown-08 | 19.51 | 2.6 | ng/ul | 66059 | 5 | 21.10 | 506923 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.57 | 8.1 | ng/ul | 205552 | 5 | 21.10 | 506923 | 20.0 |
| unknown-09 | 19.69 | 4.9 | ng/ul | 123115 | 5 | 21.10 | 506923 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.83 | 7.0 | ng/ul | 177674 | 5 | 21.10 | 506923 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.11 | 4.5 | ng/ul | 114120 | 5 | 21.10 | 506923 | 20.0 |
| Coumaphos | 20.17 | 6.7 | ng/ul | 168726 | 5 | 21.10 | 506923 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.43 | 5.5 | ng/ul | 138234 | 5 | 21.10 | 506923 | 20.0 |
| (DEL) Alkane: Str... | 20.83 | 5.9 | ng/ul | 148451 | 5 | 21.10 | 506923 | 20.0 |
| (DEL) Alkane: Str... | 21.27 | 6.6 | ng/ul | 166416 | 5 | 21.10 | 506923 | 20.0 |
| Phosphoric acid, ... | 21.50 | 2.7 | ng/ul | 68446 | 5 | 21.10 | 506923 | 20.0 |
| Phosphoric acid, ... | 21.61 | 5.5 | ng/ul | 138170 | 5 | 21.10 | 506923 | 20.0 |
| (DEL) Alkane: Str... | 21.69 | 9.8 | ng/ul | 247171 | 5 | 21.10 | 506923 | 20.0 |
| (DEL) Alkane: Str... | 22.14 | 11.5 | ng/ul | 292258 | 5 | 21.10 | 506923 | 20.0 |
| (DEL) Alkane: Str... | 23.80 | 27.4 | ng/ul | 354346 | 6 | 23.28 | 258975 | 20.0 |
| (DEL) Alkane: Str... | 24.52 | 23.2 | ng/ul | 299974 | 6 | 23.28 | 258975 | 20.0 |