LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

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-BG072315.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 | 2.763 | 11 | 13 | 17 | rVB2 | 12790 | 12493 | 0.59% | 0.036% |
| 2 | 6.694 | 678 | 682 | 693 | rVB | 97977 | 161984 | 7.63% | 0.464% |
| 3 | 6.859 | 705 | 710 | 717 | rBV | 81055 | 121509 | 5.72% | 0.348% |
| 4 | 7.047 | 736 | 742 | 749 | rVB | 113733 | 174944 | 8.24% | 0.501% |
| 5 | 7.511 | 815 | 821 | 830 | rBV | 209856 | 325366 | 15.33% | 0.932% |
| 6 | 8.227 | 937 | 943 | 951 | rVV2 | 122760 | 190177 | 8.96% | 0.545% |
| 7 | 8.333 | 955 | 961 | 971 | rVB | 35844 | 57859 | 2.73% | 0.166% |
| 8 | 8.668 | 1011 | 1018 | 1027 | rVB | 105317 | 174911 | 8.24% | 0.501% |
| 9 | 9.385 | 1133 | 1140 | 1145 | rBV | 91705 | 147267 | 6.94% | 0.422% |
| 10 | 9.920 | 1225 | 1231 | 1239 | rBV | 149956 | 247352 | 11.65% | 0.709% |
| 11 | 10.161 | 1266 | 1272 | 1278 | rBV2 | 82993 | 129585 | 6.10% | 0.371% |
| 12 | 10.296 | 1287 | 1295 | 1301 | rBV | 332475 | 560983 | 26.43% | 1.607% |
| 13 | 10.437 | 1311 | 1319 | 1331 | rBV | 113451 | 190942 | 9.00% | 0.547% |
| 14 | 10.678 | 1354 | 1360 | 1366 | rBV | 33959 | 52879 | 2.49% | 0.152% |
| 15 | 11.330 | 1467 | 1471 | 1478 | rBV6 | 5947 | 13683 | 0.64% | 0.039% |
| 16 | 11.747 | 1537 | 1542 | 1547 | rBV3 | 10513 | 16343 | 0.77% | 0.047% |
| 17 | 11.964 | 1575 | 1579 | 1587 | rVB3 | 10487 | 20857 | 0.98% | 0.060% |
| 18 | 12.346 | 1638 | 1644 | 1649 | rBV7 | 8736 | 22194 | 1.05% | 0.064% |
| 19 | 12.605 | 1681 | 1688 | 1691 | rVV8 | 6297 | 12592 | 0.59% | 0.036% |
| 20 | 12.716 | 1703 | 1707 | 1711 | rVB6 | 9983 | 13335 | 0.63% | 0.038% |
| 21 | 12.781 | 1711 | 1718 | 1721 | rBV6 | 10275 | 17149 | 0.81% | 0.049% |
| 22 | 12.951 | 1741 | 1747 | 1753 | rBV5 | 21073 | 48834 | 2.30% | 0.140% |
| 23 | 13.010 | 1753 | 1757 | 1762 | rVB3 | 18861 | 24970 | 1.18% | 0.072% |
| 24 | 13.104 | 1769 | 1773 | 1776 | rBV5 | 7271 | 11379 | 0.54% | 0.033% |
| 25 | 13.351 | 1809 | 1815 | 1819 | rBV8 | 6346 | 15471 | 0.73% | 0.044% |
| 26 | 13.498 | 1836 | 1840 | 1844 | rVB5 | 14162 | 19152 | 0.90% | 0.055% |
| 27 | 13.598 | 1851 | 1857 | 1861 | rBV | 304057 | 411387 | 19.38% | 1.179% |
| 28 | 13.645 | 1861 | 1865 | 1869 | rVB | 81641 | 102129 | 4.81% | 0.293% |
| 29 | 13.721 | 1875 | 1878 | 1884 | rVB7 | 14271 | 22577 | 1.06% | 0.065% |
| 30 | 13.868 | 1897 | 1903 | 1908 | rVV | 320471 | 460056 | 21.67% | 1.318% |
| 31 | 13.915 | 1908 | 1911 | 1916 | rVV6 | 16249 | 27360 | 1.29% | 0.078% |
| 32 | 14.009 | 1923 | 1927 | 1933 | rVB | 41240 | 57271 | 2.70% | 0.164% |
| 33 | 14.097 | 1936 | 1942 | 1946 | rBV3 | 31777 | 54347 | 2.56% | 0.156% |
| 34 | 14.179 | 1946 | 1956 | 1964 | rBV2 | 501223 | 849327 | 40.01% | 2.433% |

LSC Area Percent Report

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Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

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-BG072315.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.244 | 1964 | 1967 | 1970 | rBV | 25574 | 36900 | 1.74% | 0.106% |
| 36 | 14.397 | 1988 | 1993 | 2005 | rVB | 108998 | 170601 | 8.04% | 0.489% |
| 37 | 14.726 | 2045 | 2049 | 2055 | rVB8 | 16621 | 26161 | 1.23% | 0.075% |
| 38 | 14.902 | 2075 | 2079 | 2085 | rBV8 | 21164 | 40763 | 1.92% | 0.117% |
| 39 | 14.973 | 2087 | 2091 | 2095 | rBV2 | 40485 | 57003 | 2.69% | 0.163% |
| 40 | 15.055 | 2102 | 2105 | 2110 | rBV2 | 44694 | 60602 | 2.85% | 0.174% |
| 41 | 15.178 | 2121 | 2126 | 2132 | rVB | 401852 | 548620 | 25.85% | 1.572% |
| 42 | 15.237 | 2132 | 2136 | 2144 | rBV3 | 33765 | 71740 | 3.38% | 0.206% |
| 43 | 15.307 | 2145 | 2148 | 2155 | rVB | 53751 | 71156 | 3.35% | 0.204% |
| 44 | 15.924 | 2249 | 2253 | 2254 | rBV2 | 59362 | 72795 | 3.43% | 0.209% |
| 45 | 16.718 | 2385 | 2388 | 2391 | rBV2 | 45319 | 56177 | 2.65% | 0.161% |
| 46 | 16.935 | 2420 | 2425 | 2429 | rBV | 623269 | 902295 | 42.51% | 2.585% |
| 47 | 16.976 | 2429 | 2432 | 2437 | rVB | 292720 | 361075 | 17.01% | 1.035% |
| 48 | 17.035 | 2437 | 2442 | 2446 | rBV | 367194 | 507322 | 23.90% | 1.454% |
| 49 | 17.857 | 2578 | 2582 | 2586 | rBV2 | 77638 | 123115 | 5.80% | 0.353% |
| 50 | 18.016 | 2605 | 2609 | 2613 | rVB3 | 183317 | 240762 | 11.34% | 0.690% |
| 51 | 18.075 | 2616 | 2619 | 2623 | rVB2 | 66548 | 70477 | 3.32% | 0.202% |
| 52 | 18.304 | 2655 | 2658 | 2664 | rBV2 | 81209 | 121249 | 5.71% | 0.347% |
| 53 | 18.792 | 2739 | 2741 | 2746 | rVB6 | 57283 | 64326 | 3.03% | 0.184% |
| 54 | 18.874 | 2751 | 2755 | 2764 | rVB | 576240 | 777491 | 36.63% | 2.228% |
| 55 | 19.009 | 2773 | 2778 | 2782 | rVB | 566773 | 731872 | 34.48% | 2.097% |
| 56 | 19.085 | 2788 | 2791 | 2798 | rVB4 | 93766 | 153745 | 7.24% | 0.441% |
| 57 | 19.162 | 2799 | 2804 | 2809 | rVB | 734958 | 905034 | 42.64% | 2.593% |
| 58 | 19.220 | 2812 | 2814 | 2818 | rVV2 | 50510 | 57367 | 2.70% | 0.164% |
| 59 | 19.344 | 2830 | 2835 | 2837 | rBV2 | 499249 | 703466 | 33.14% | 2.016% |
| 60 | 19.373 | 2837 | 2840 | 2844 | rVB | 478014 | 610293 | 28.75% | 1.749% |
| 61 | 19.503 | 2858 | 2862 | 2867 | rBV | 126023 | 148992 | 7.02% | 0.427% |
| 62 | 19.591 | 2873 | 2877 | 2878 | rBV | 255929 | 313294 | 14.76% | 0.898% |
| 63 | 19.608 | 2878 | 2880 | 2886 | rVB2 | 414664 | 455228 | 21.45% | 1.304% |
| 64 | 19.732 | 2897 | 2901 | 2905 | rBV | 433062 | 505229 | 23.80% | 1.448% |
| 65 | 19.779 | 2906 | 2909 | 2916 | rVB2 | 197751 | 321476 | 15.14% | 0.921% |
| 66 | 19.873 | 2920 | 2925 | 2930 | rVB | 1495041 | 1832119 | 86.31% | 5.249% |
| 67 | 19.926 | 2930 | 2934 | 2938 | rBV | 184004 | 218673 | 10.30% | 0.627% |
| 68 | 20.078 | 2956 | 2960 | 2964 | rVB | 212490 | 259755 | 12.24% | 0.744% |
| 69 | 20.155 | 2968 | 2973 | 2978 | rBV | 1736402 | 2027777 | 95.53% | 5.810% |
| 70 | 20.208 | 2978 | 2982 | 2994 | rVB3 | 492612 | 678224 | 31.95% | 1.943% |
| 71 | 20.307 | 2995 | 2999 | 3008 | rVB2 | 516513 | 782548 | 36.87% | 2.242% |

LSC Area Percent Report

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Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

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-BG072315.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.401 | 3012 | 3015 | 3019 | rBV3 | 119917 | 140326 | 6.61% | 0.402% |
| 73 | 20.472 | 3019 | 3027 | 3033 | rBV | 1170910 | 2091624 | 98.54% | 5.993% |
| 74 | 20.619 | 3048 | 3052 | 3058 | rVB | 683943 | 816183 | 38.45% | 2.339% |
| 75 | 20.683 | 3059 | 3063 | 3066 | rBV2 | 333686 | 399603 | 18.83% | 1.145% |
| 76 | 20.777 | 3075 | 3079 | 3083 | rBV3 | 182056 | 251020 | 11.83% | 0.719% |
| 77 | 20.889 | 3093 | 3098 | 3102 | rVB2 | 579633 | 693347 | 32.66% | 1.987% |
| 78 | 20.942 | 3103 | 3107 | 3113 | rVB | 355533 | 444687 | 20.95% | 1.274% |
| 79 | 21.001 | 3113 | 3117 | 3119 | rBV | 172551 | 201101 | 9.47% | 0.576% |
| 80 | 21.024 | 3119 | 3121 | 3126 | rVB2 | 82286 | 93656 | 4.41% | 0.268% |
| 81 | 21.071 | 3126 | 3129 | 3132 | rBV | 350727 | 379624 | 17.88% | 1.088% |
| 82 | 21.142 | 3135 | 3141 | 3143 | rVV2 | 932521 | 1469040 | 69.21% | 4.209% |
| 83 | 21.177 | 3143 | 3147 | 3153 | rVB | 1776794 | 2122705 | 100.00% | 6.082% |
| 84 | 21.312 | 3164 | 3170 | 3174 | rVB2 | 72733 | 138872 | 6.54% | 0.398% |
| 85 | 21.483 | 3194 | 3199 | 3204 | rVB | 600869 | 819953 | 38.63% | 2.349% |
| 86 | 21.535 | 3205 | 3208 | 3214 | rVB2 | 219805 | 266670 | 12.56% | 0.764% |
| 87 | 21.600 | 3216 | 3219 | 3225 | rBV2 | 222360 | 302474 | 14.25% | 0.867% |
| 88 | 21.729 | 3239 | 3241 | 3246 | rVB2 | 85349 | 95828 | 4.51% | 0.275% |
| 89 | 21.794 | 3248 | 3252 | 3256 | rBV3 | 105196 | 161427 | 7.60% | 0.463% |
| 90 | 21.941 | 3274 | 3277 | 3281 | rBV4 | 121667 | 171036 | 8.06% | 0.490% |
| 91 | 22.152 | 3310 | 3313 | 3317 | rVB3 | 152039 | 170856 | 8.05% | 0.490% |
| 92 | 22.675 | 3396 | 3402 | 3407 | rBV2 | 314854 | 700462 | 33.00% | 2.007% |
| 93 | 22.840 | 3426 | 3430 | 3438 | rVB | 56955 | 106815 | 5.03% | 0.306% |
| 94 | 23.139 | 3476 | 3481 | 3484 | rBV | 156575 | 264186 | 12.45% | 0.757% |
| 95 | 23.186 | 3485 | 3489 | 3493 | rVV | 245884 | 419806 | 19.78% | 1.203% |
| 96 | 23.233 | 3493 | 3497 | 3504 | rVB | 322454 | 547625 | 25.80% | 1.569% |
| 97 | 23.327 | 3507 | 3513 | 3519 | rBV2 | 554452 | 999356 | 47.08% | 2.863% |
| 98 | 23.868 | 3601 | 3605 | 3613 | rVB3 | 87192 | 165767 | 7.81% | 0.475% |
| 99 | 25.531 | 3882 | 3888 | 3898 | rVB2 | 132050 | 345837 | 16.29% | 0.991% |
| 100 | 26.201 | 3997 | 4002 | 4016 | rVB2 | 90308 | 267442 | 12.60% | 0.766% |

Sum of corrected areas: 34901714

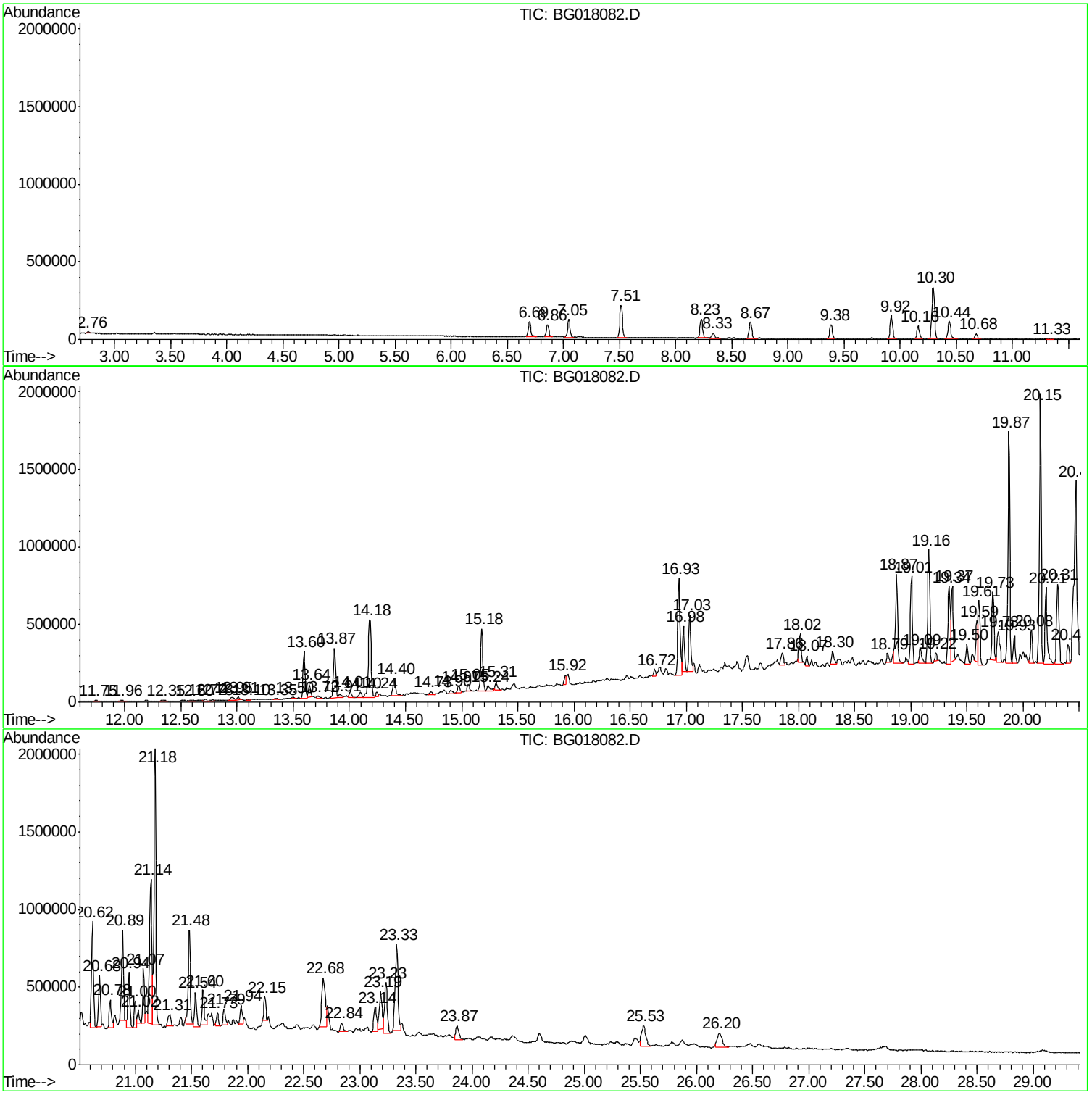
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
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Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

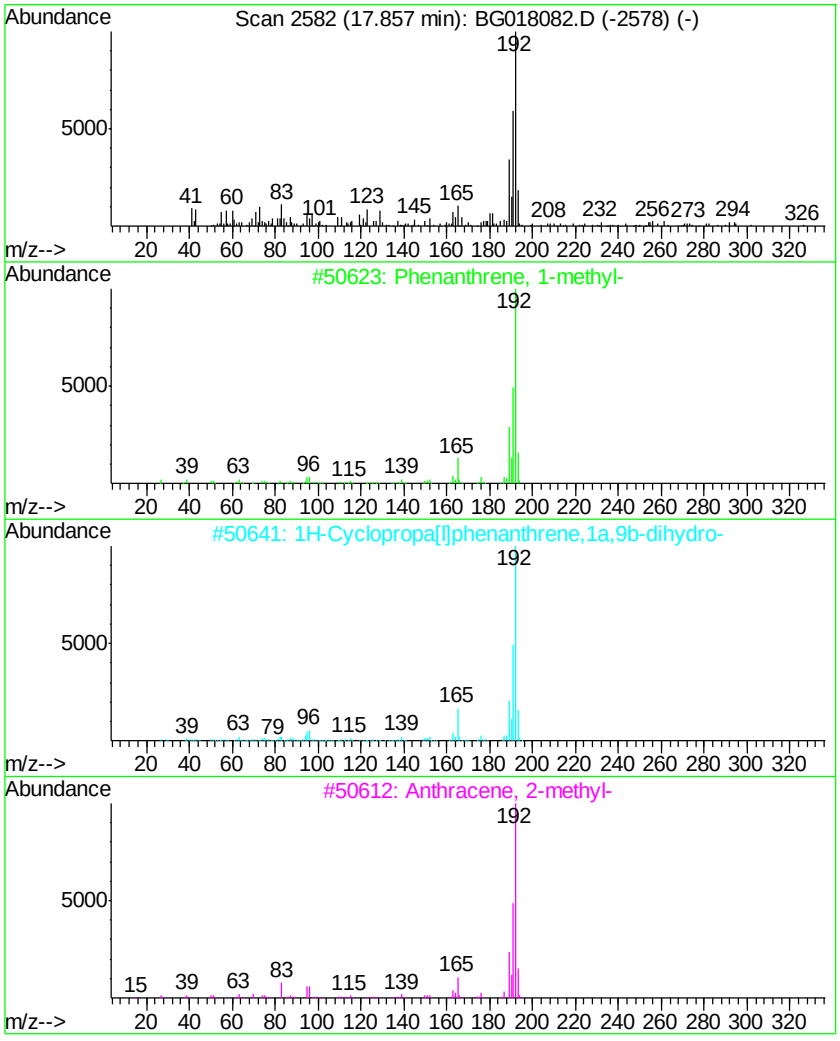
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

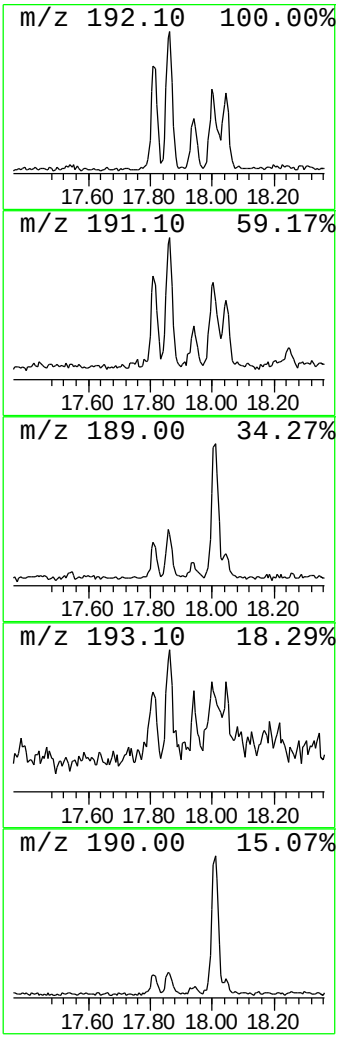
**********

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.86 | 2.73 ng/ul | 123115 | Phenanthrene-d10 | 16.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 89 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 89 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 81 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 81 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 81 |



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Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

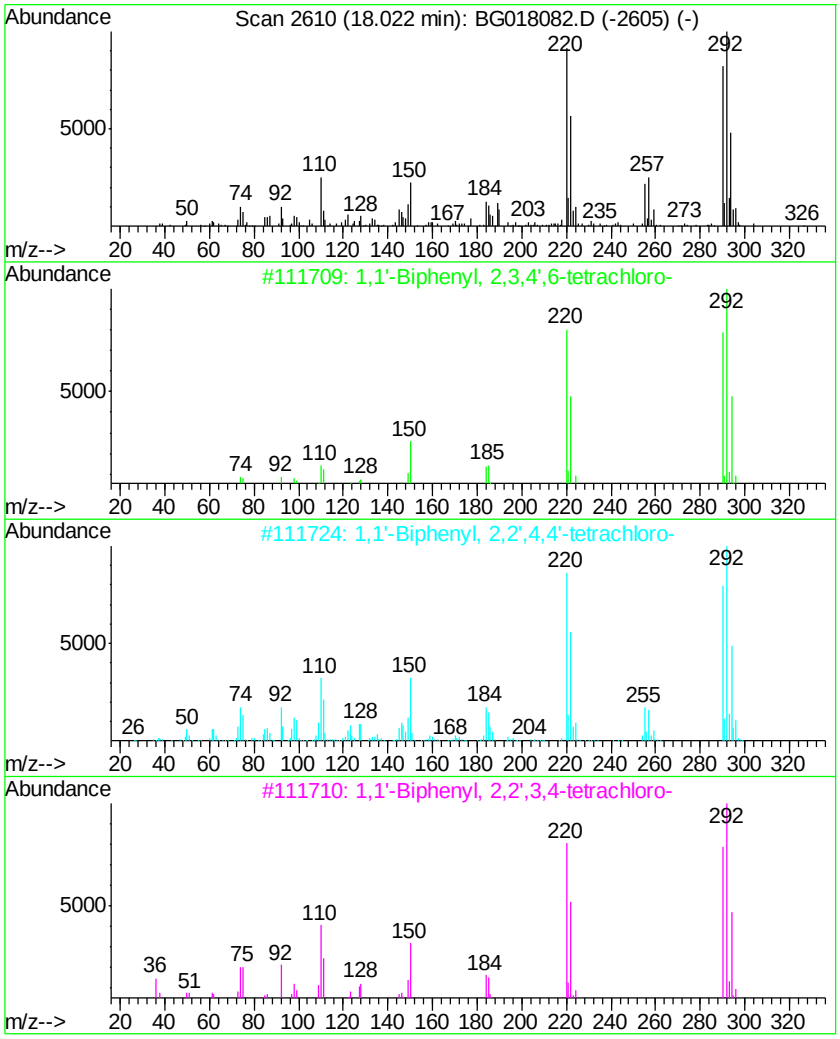
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

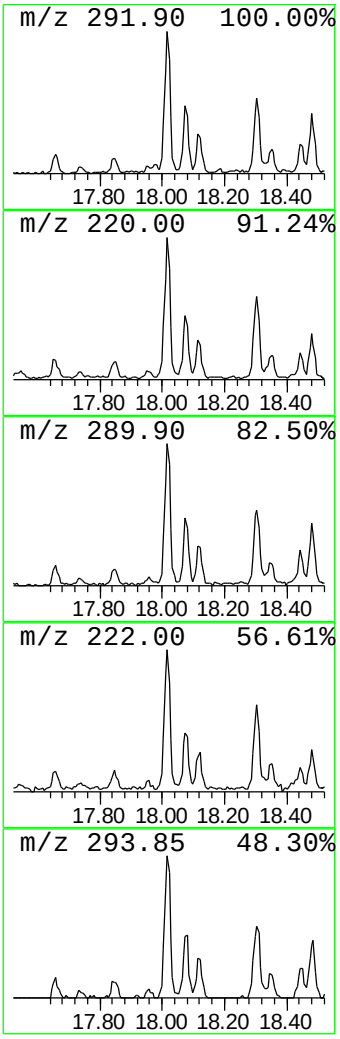
**********

Peak Number 3 1,1'-Biphenyl, 2,3,4',6-tet... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.02 | 5.34 ng/ul | 240762 | Phenanthrene-d10 | 16.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,4',6-tetrachl... | 290 | C12H6Cl4 | 052663-58-8 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99 |
| 4 | 1,1'-Biphenyl, 2,4,4',6-tetrachl... | 290 | C12H6Cl4 | 032598-12-2 | 98 |
| 5 | 1,1'-Biphenyl, 2,3',5,5'-tetrach... | 290 | C12H6Cl4 | 041464-42-0 | 95 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

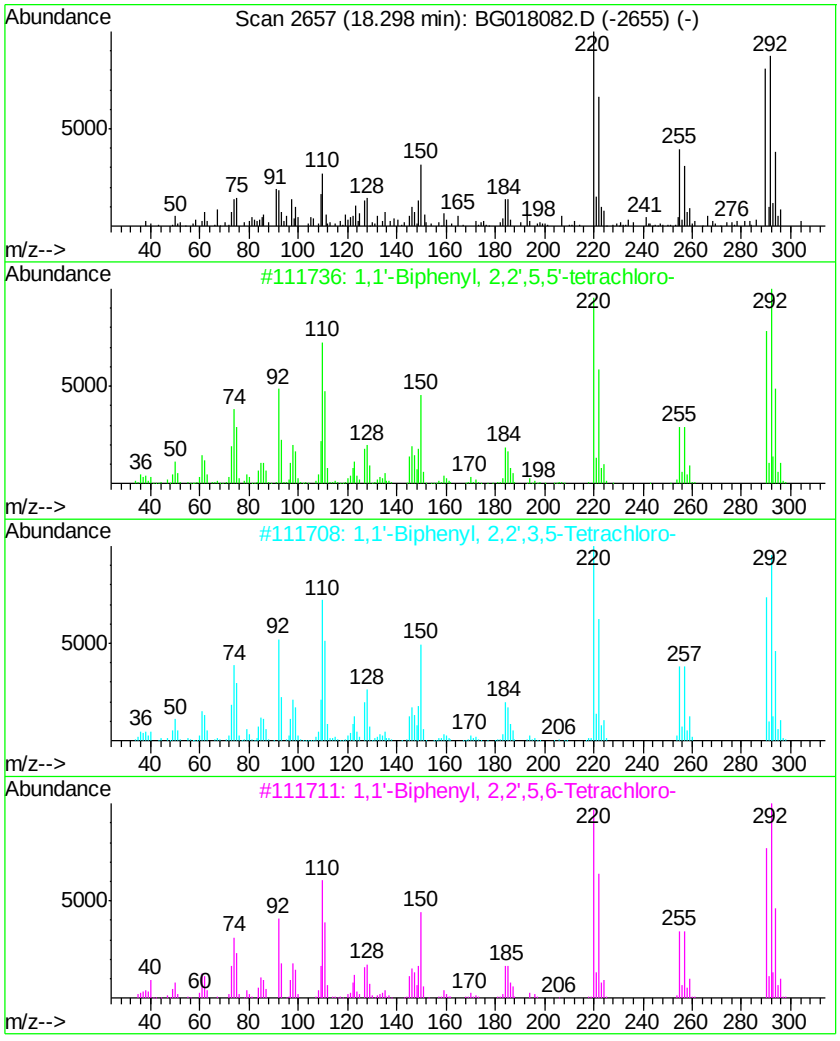
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

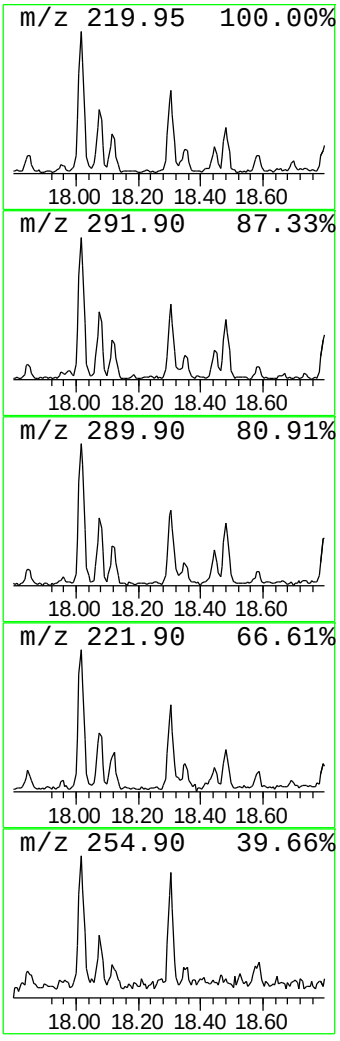
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 2.69 ng/ul | 121249 | Phenanthrene-d10 | 16.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 96 |
| 2 | 1,1'-Biphenyl, 2,2',3,5-Tetrachl... | 290 | C12H6Cl4 | 070362-46-8 | 96 |
| 3 | 1,1'-Biphenyl, 2,2',5,6-Tetrachl... | 290 | C12H6Cl4 | 041464-41-9 | 96 |
| 4 | 1,1'-Biphenyl, 2,2',5,6-Tetrachl... | 290 | C12H6Cl4 | 041464-41-9 | 95 |
| 5 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 95 |



Library Search Compound Report

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Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

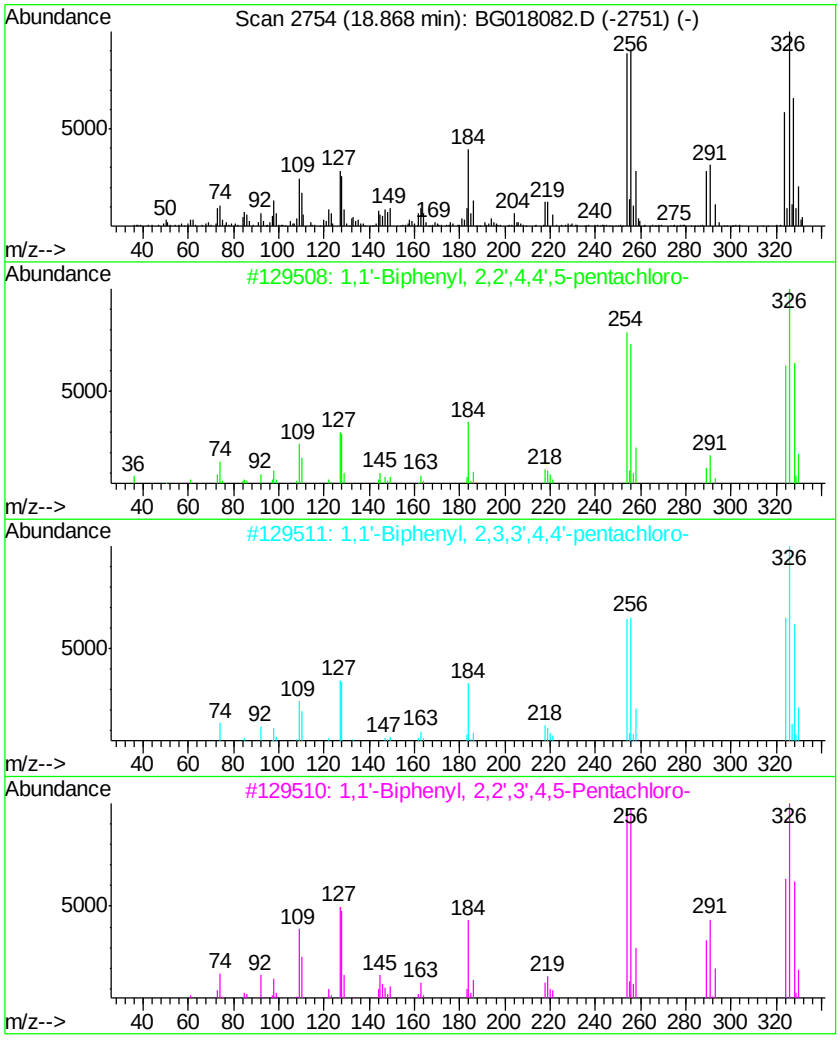
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

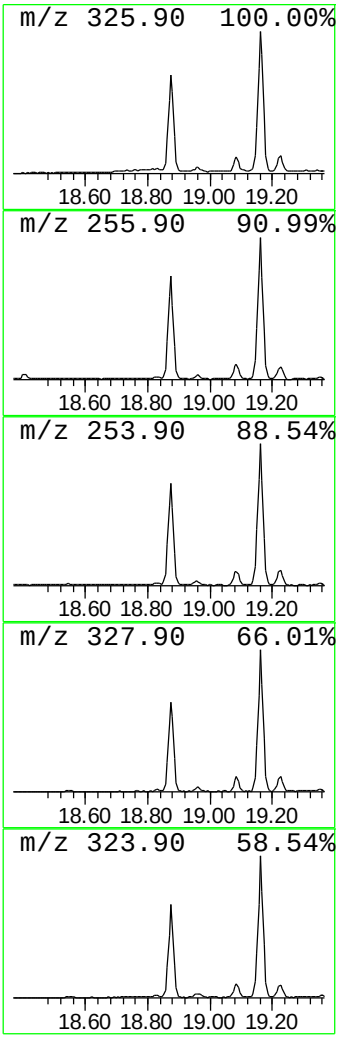
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.87 | 17.23 ng/ul | 777491 | Phenanthrene-d10 | 16.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 99 |
| 2 | 1,1'-Biphenyl, 2,3,3',4,4'-penta... | 324 | C12H5Cl5 | 032598-14-4 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3',4,5-Penta... | 324 | C12H5Cl5 | 041464-51-1 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',4,5',6-Penta... | 324 | C12H5Cl5 | 060145-21-3 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

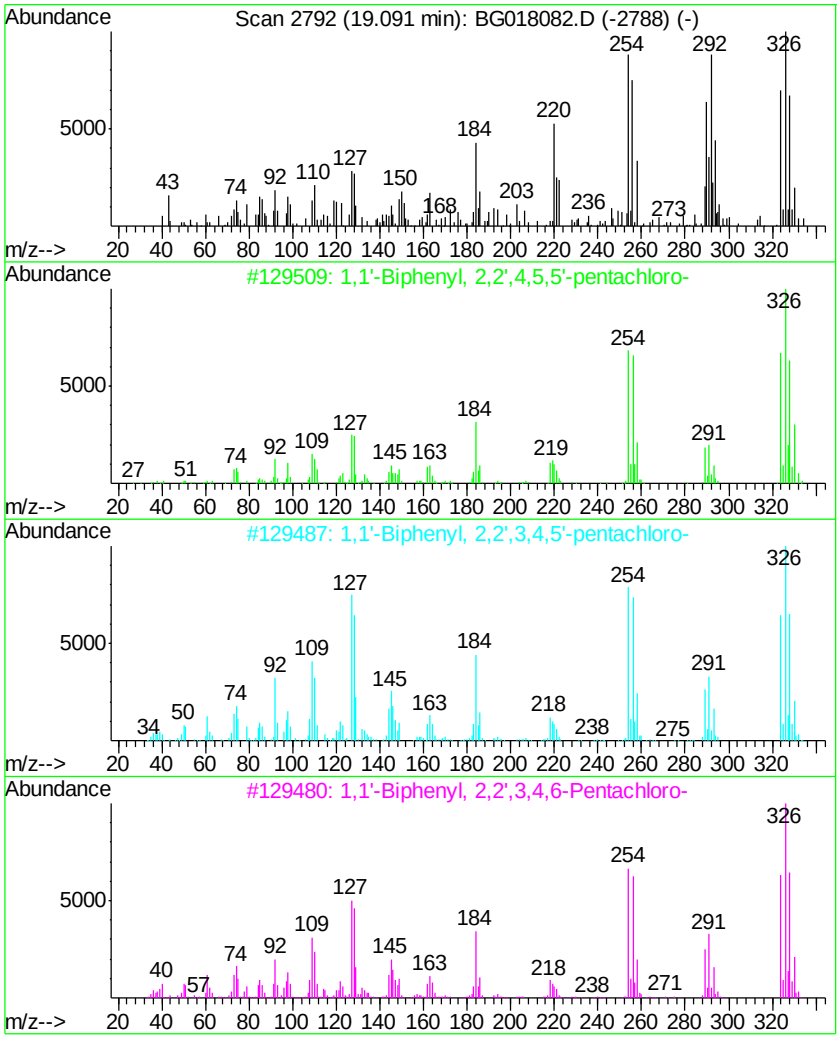
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

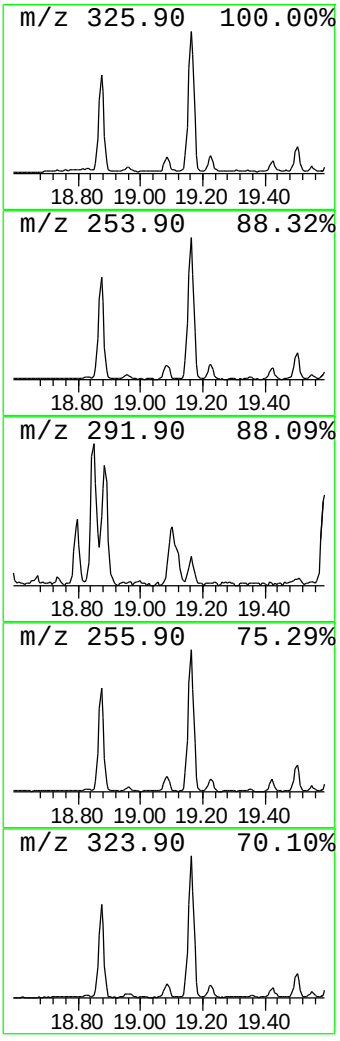
**********

Peak Number 6 1,1'-Biphenyl, 2,2',4,5,5'-... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.09 | 2.09 ng/ul | 153745 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,4,5'-penta... | 324 | C12H5Cl5 | 038380-02-8 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,6-Pentac... | 324 | C12H5Cl5 | 055215-17-3 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,5,6-Pentac... | 324 | C12H5Cl5 | 073575-56-1 | 99 |
| 5 | 1,1'-Biphenyl, 2,3,4',5,6-Pentac... | 324 | C12H5Cl5 | 068194-11-6 | 98 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

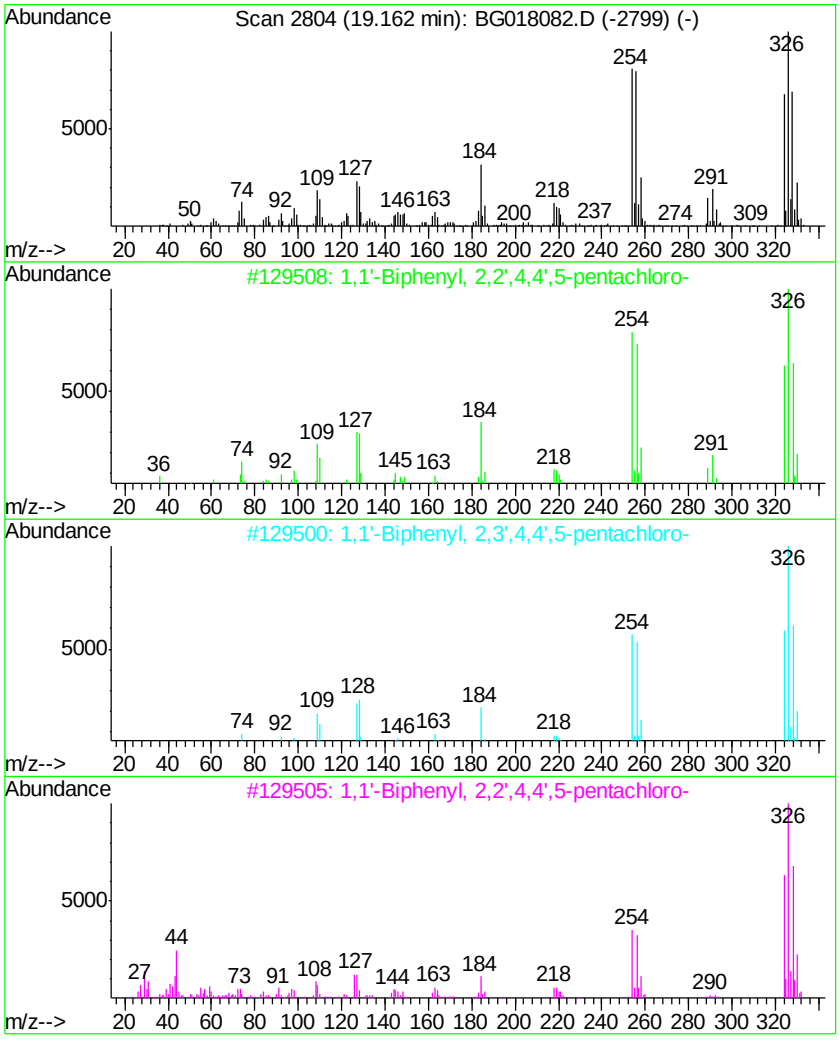
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

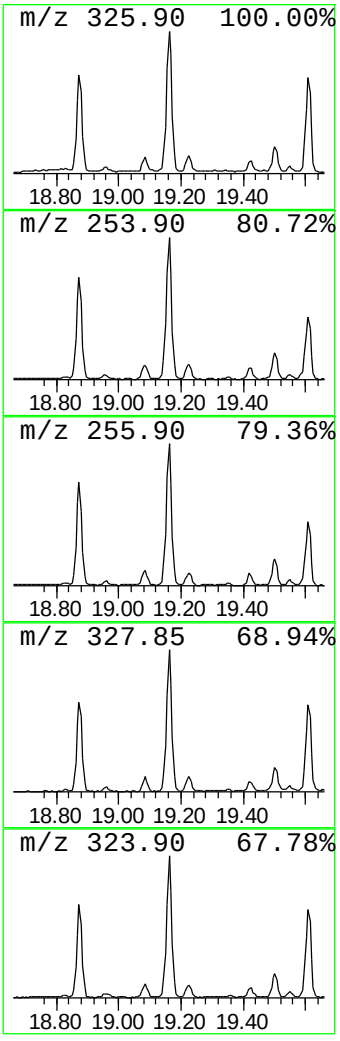
**********

Peak Number 7 1,1'-Biphenyl, 2,3,3',4,4'-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.16 | 12.32 ng/ul | 905034 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 99 |
| 2 | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 99 |
| 5 | 1,1'-Biphenyl, 2,3,3',4,4'-penta... | 324 | C12H5Cl5 | 032598-14-4 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

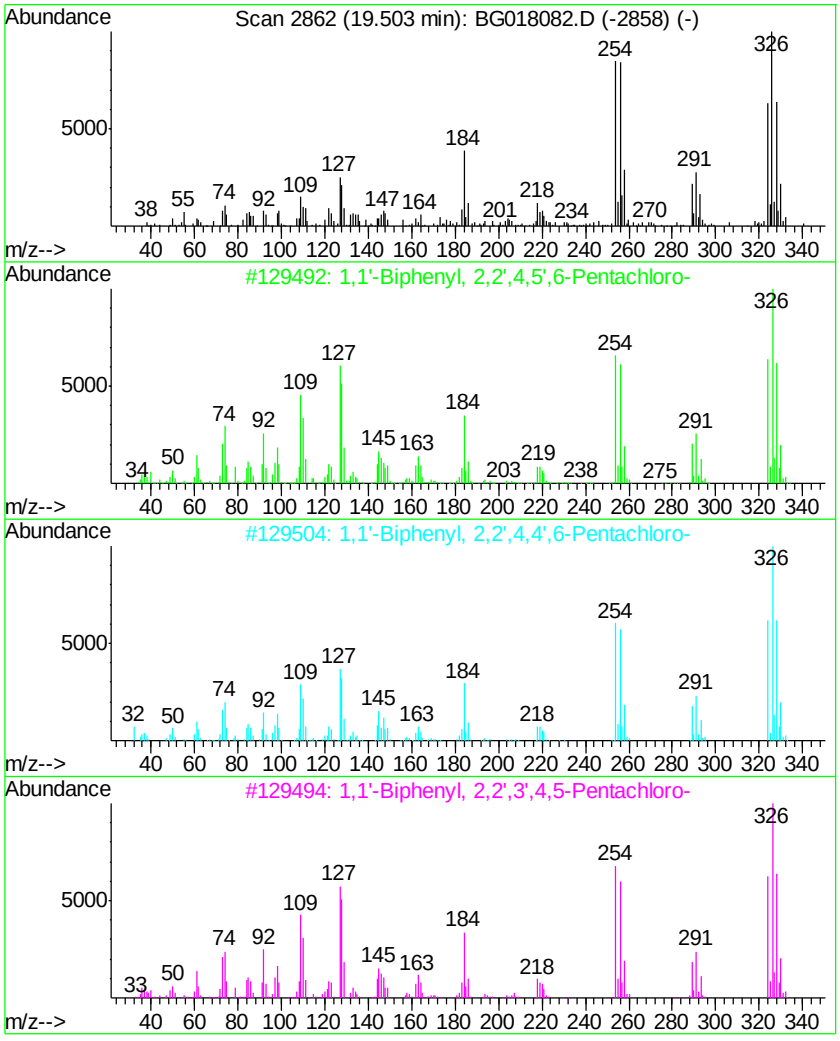
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

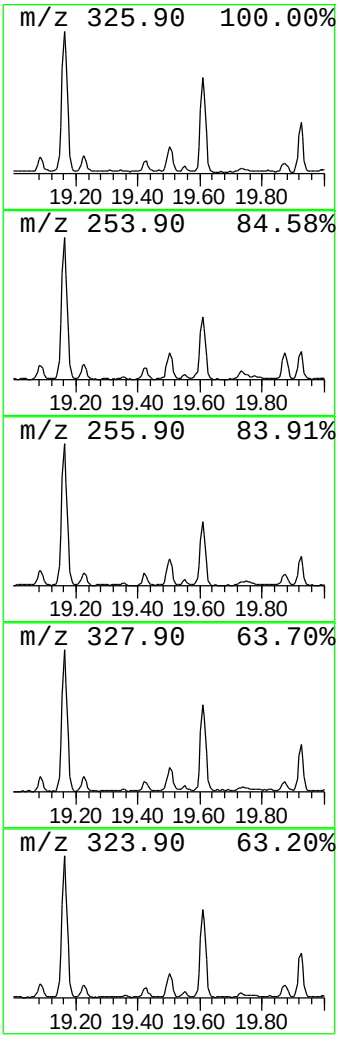
**********

Peak Number 8 1,1'-Biphenyl, 2,2',4,5',6-... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.50 | 2.03 ng/ul | 148992 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,5',6-Penta... | 324 | C12H5Cl5 | 060145-21-3 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',4,4',6-Penta... | 324 | C12H5Cl5 | 039485-83-1 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3',4,5-Penta... | 324 | C12H5Cl5 | 041464-51-1 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324 | C12H5Cl5 | 052663-61-3 | 98 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

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

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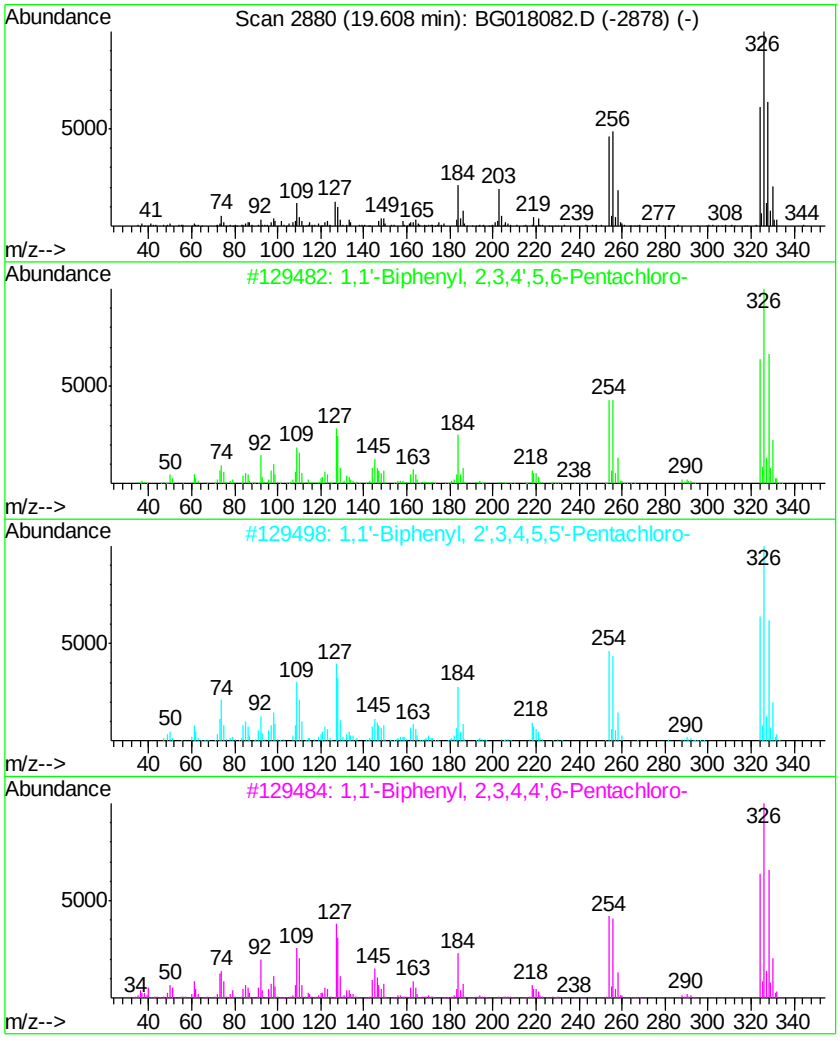
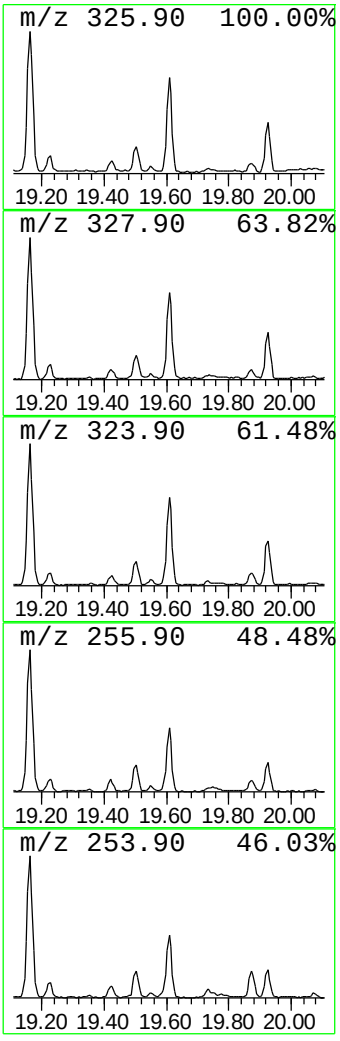
Peak Number 10 1,1'-Biphenyl, 2,3,4',5,6-P... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.61 | 6.20 ng/ul | 455228 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,4',5,6-Pentac... | 324 | C12H5Cl5 | 068194-11-6 | 98 |
| 2 | 1,1'-Biphenyl, 2',3,4,5,5'-Penta... | 324 | C12H5Cl5 | 070424-70-3 | 97 |
| 3 | 1,1'-Biphenyl, 2,3,4,4',6-Pentac... | 324 | C12H5Cl5 | 074472-38-1 | 96 |
| 4 | 1,1'-Biphenyl, 2,3,3',4,6-Pentac... | 324 | C12H5Cl5 | 074472-35-8 | 96 |
| 5 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 96 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

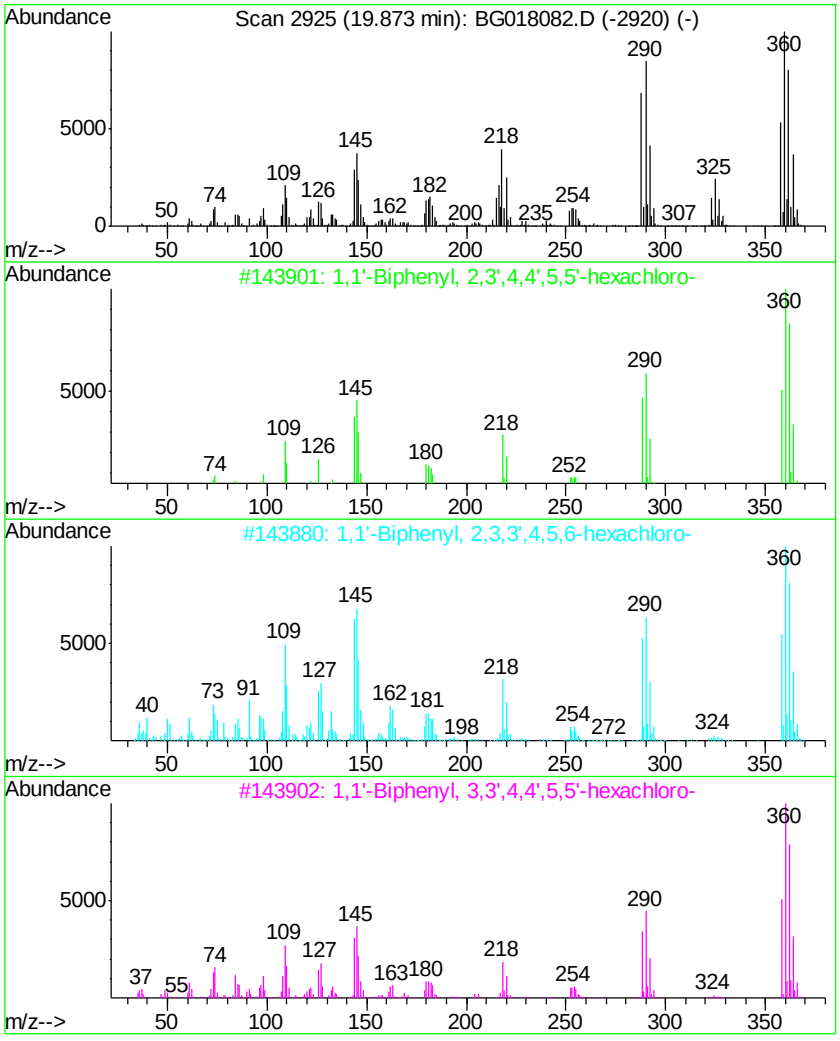
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

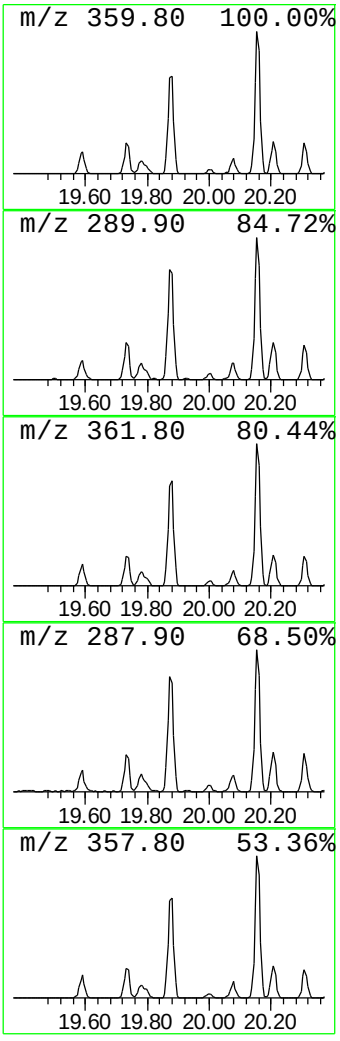
**********

Peak Number 13 1,1'-Biphenyl, 3,3',4,4',5,... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.87 | 24.94 ng/ul | 1832120 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |
| 2 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 99 |
| 3 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358 | C12H4Cl6 | 033979-03-2 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

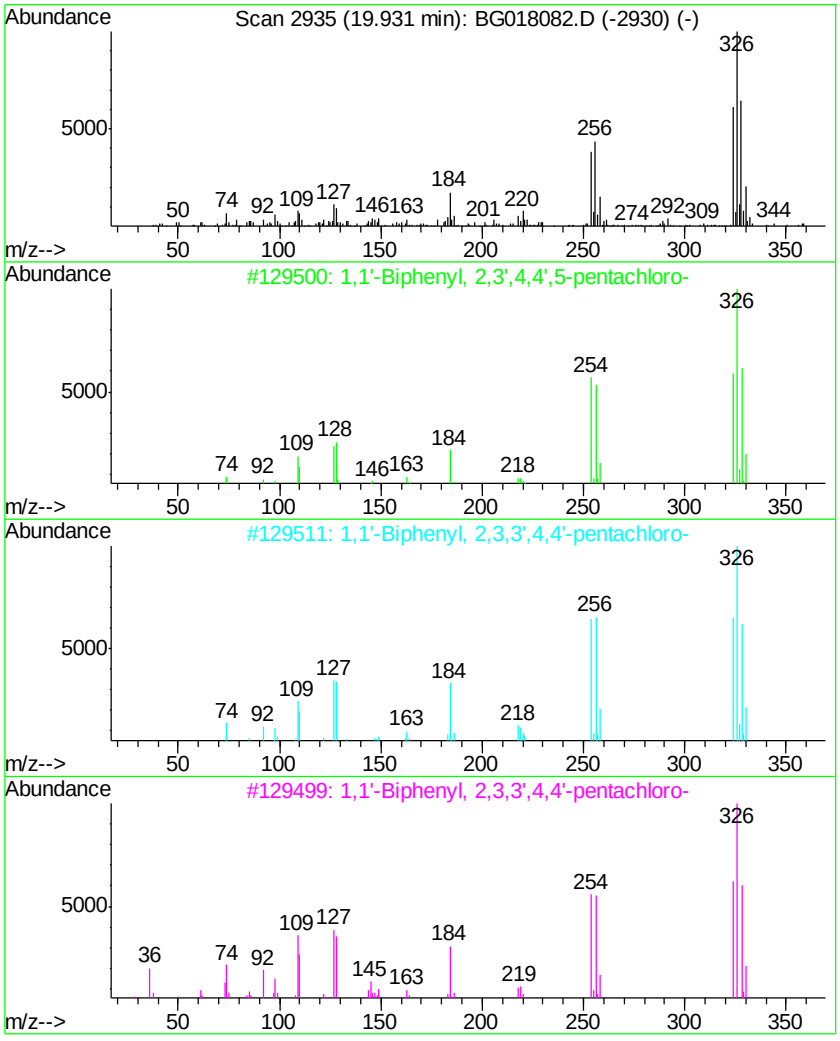
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

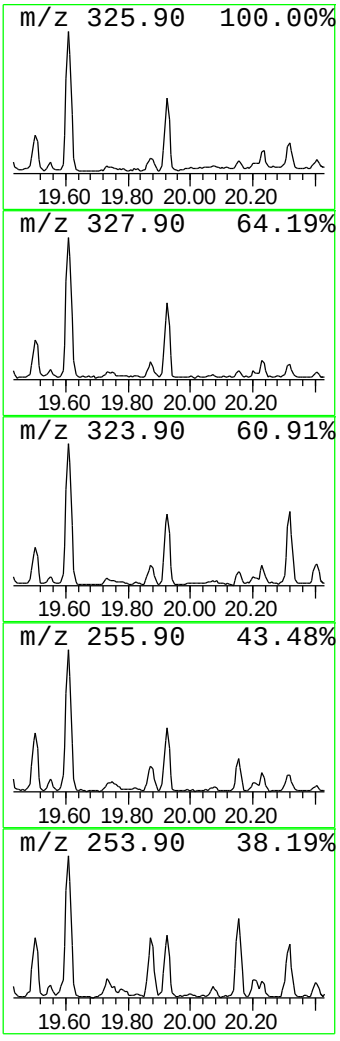
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.93 | 2.98 ng/ul | 218673 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 99 |
| 2 | 1,1'-Biphenyl, 2,3,3',4,4'-penta... | 324 | C12H5Cl5 | 032598-14-4 | 99 |
| 3 | 1,1'-Biphenyl, 2,3,3',4,4'-penta... | 324 | C12H5Cl5 | 032598-14-4 | 98 |
| 4 | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 97 |
| 5 | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324 | C12H5Cl5 | 052663-61-3 | 96 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

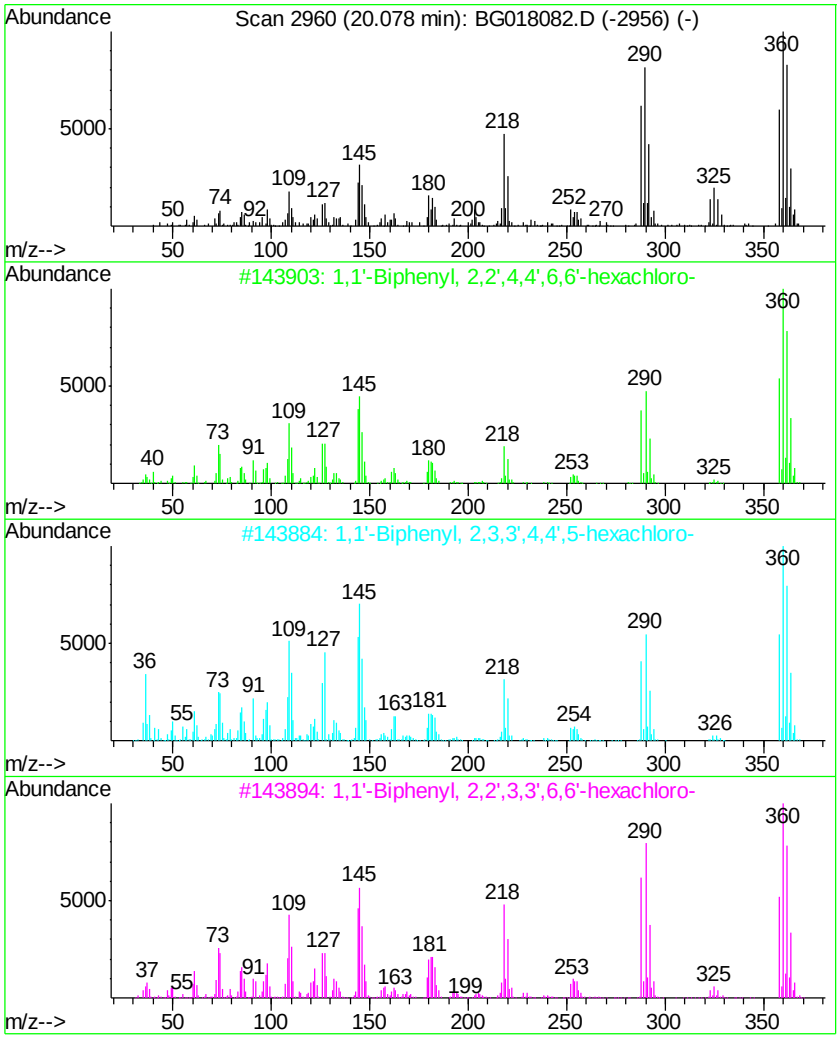
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

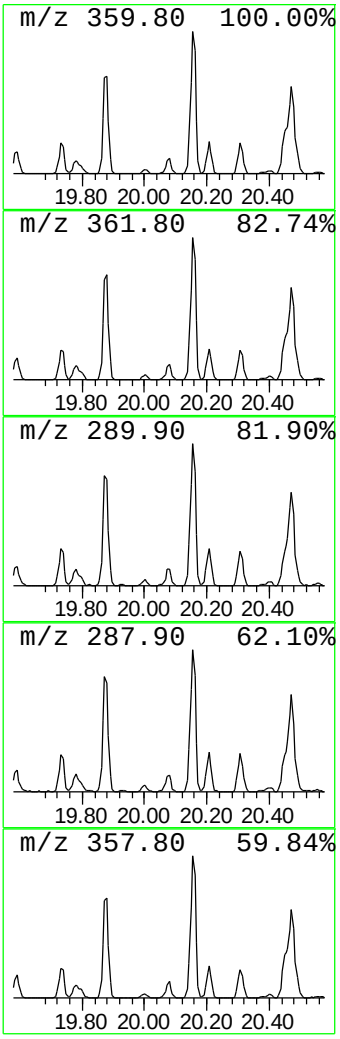
**********

Peak Number 15 1,1'-Biphenyl, 2,2',4,4',6,... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.08 | 3.54 ng/ul | 259755 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358 | C12H4Cl6 | 033979-03-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 98 |
| 3 | 1,1'-Biphenyl, 2,2',3,3',6,6'-he... | 358 | C12H4Cl6 | 038411-22-2 | 96 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 95 |
| 5 | 1,1'-Biphenyl, 2,2',4,4',5,5'-he... | 358 | C12H4Cl6 | 035065-27-1 | 95 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

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

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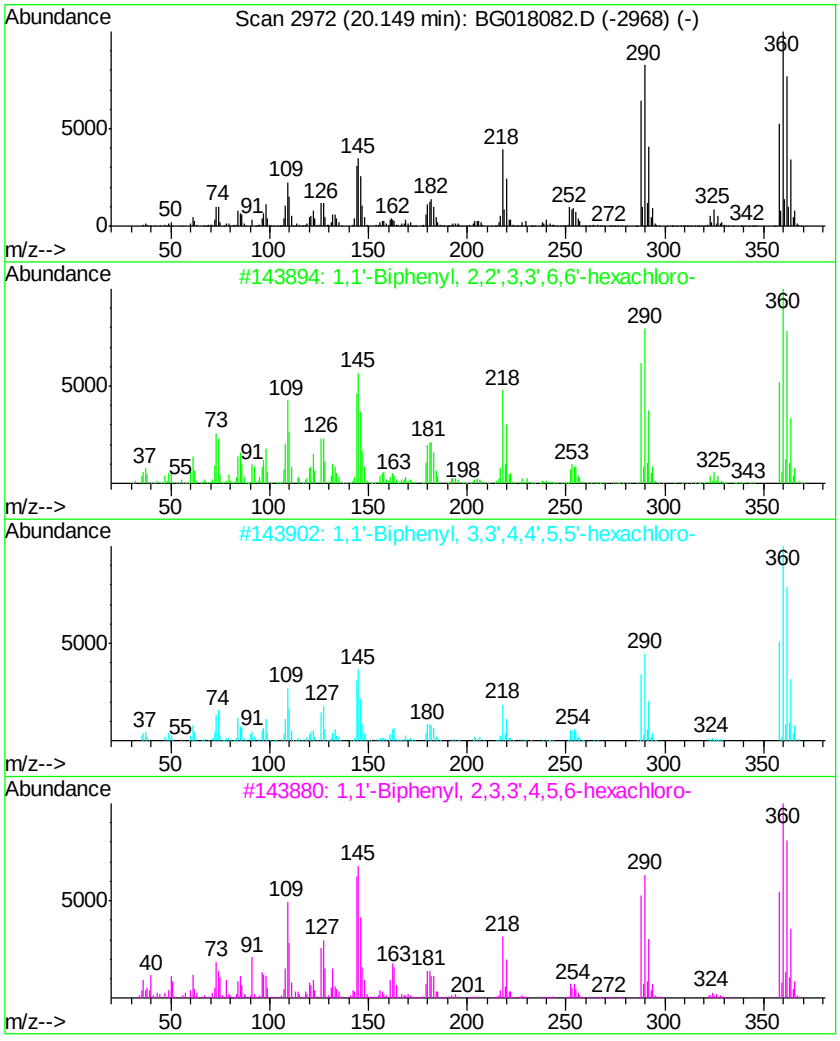
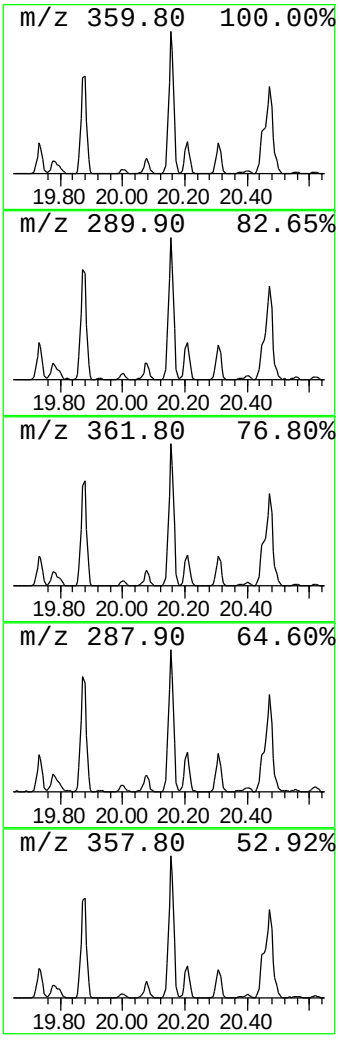
Peak Number 16 1,1'-Biphenyl, 2,2',3,3',6,... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.15 | 27.61 ng/ul | 2027780 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,3',6,6'-he... | 358 | C12H4Cl6 | 038411-22-2 | 99 |
| 2 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 99 |
| 3 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,4',6,6'-he... | 358 | C12H4Cl6 | 033979-03-2 | 99 |
| 5 | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

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

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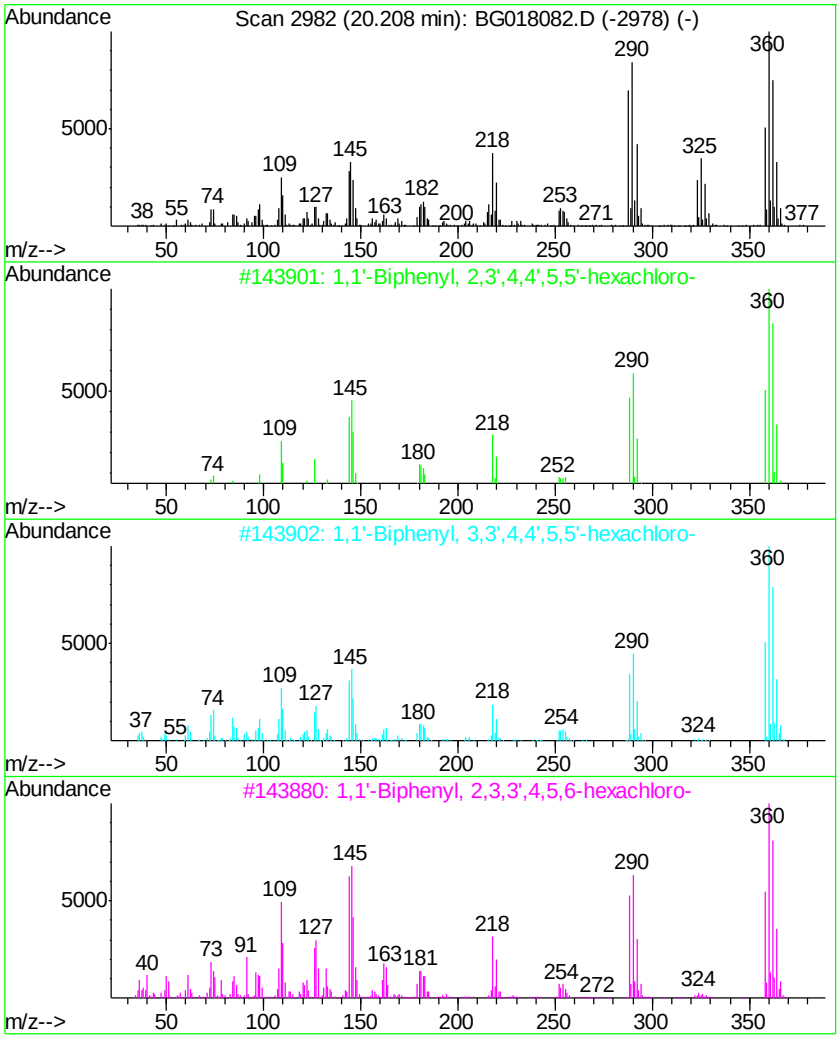
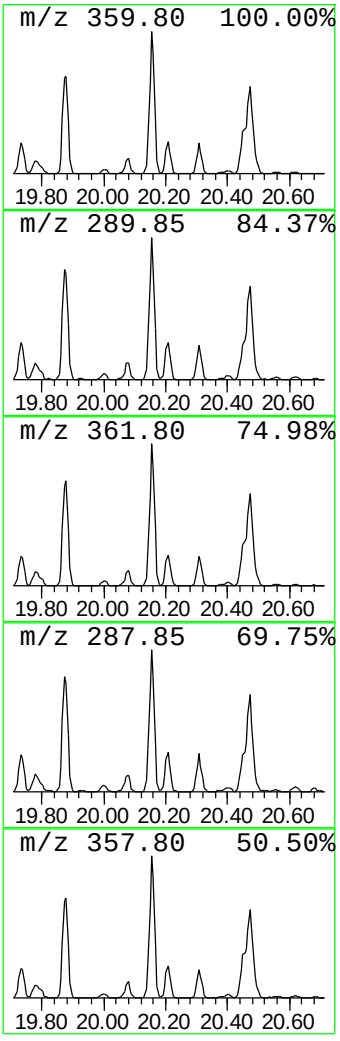
Peak Number 17 1,1'-Biphenyl, 2,3',4,4',5,... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.21 | 9.23 ng/ul | 678224 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |
| 2 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 99 |
| 3 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,3',4,6'-he... | 358 | C12H4Cl6 | 038380-05-1 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

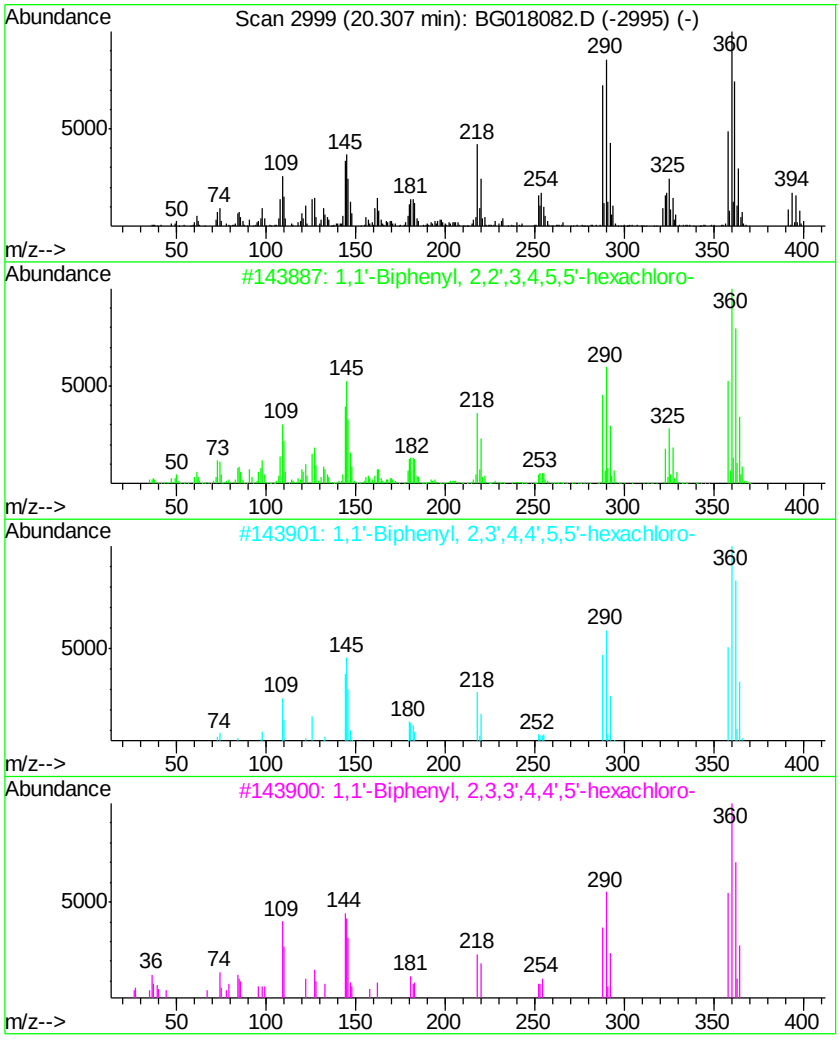
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

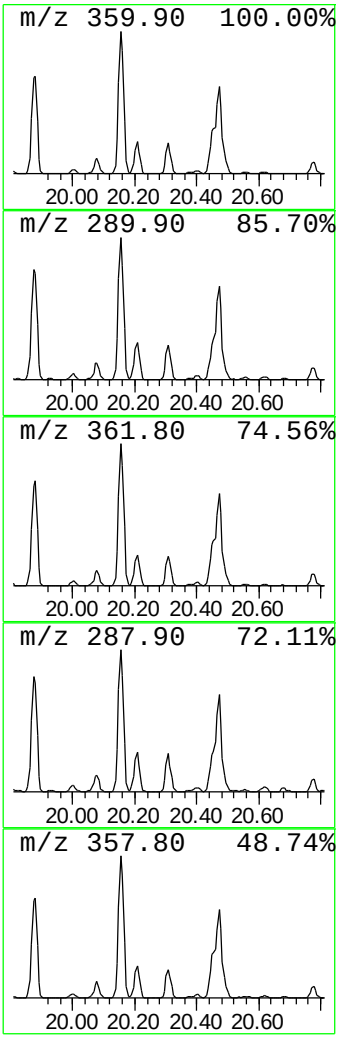
**********

Peak Number 18 1,1'-Biphenyl, 2,2',3,4,5,5... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.31 | 10.65 ng/ul | 782548 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,5,5'-hex... | 358 | C12H4Cl6 | 052712-04-6 | 99 |
| 2 | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |
| 3 | 1,1'-Biphenyl, 2,3,3',4,4',5'-he... | 358 | C12H4Cl6 | 069782-90-7 | 99 |
| 4 | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 99 |
| 5 | 1,1'-Biphenyl, 3,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 032774-16-6 | 99 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

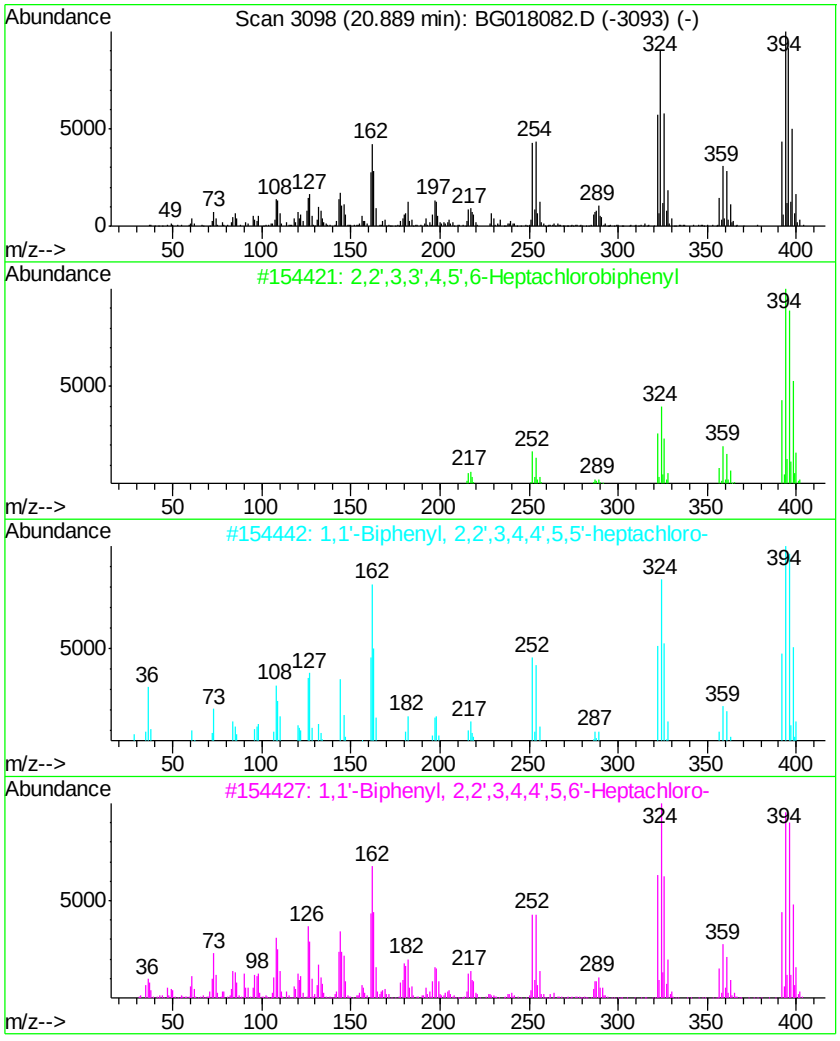
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

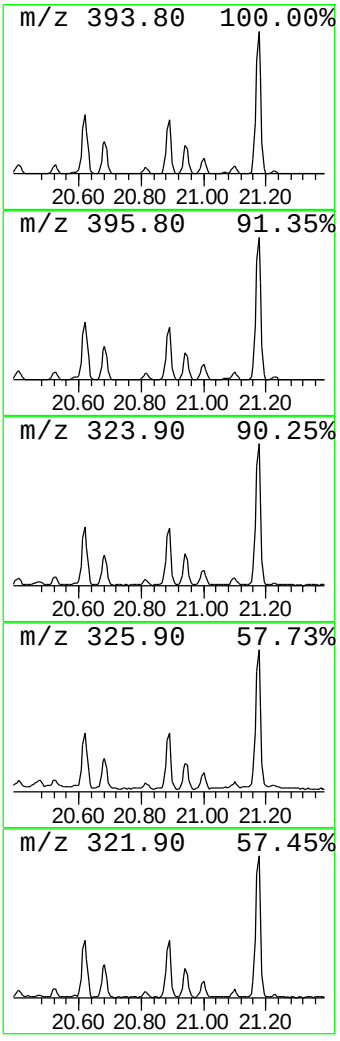
**********

Peak Number 23 2,2',3,3',4,5',6-Heptachlor... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.89 | 9.44 ng/ul | 693347 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2',3,3',4,5',6-Heptachlorobiph... | 392 | C12H3Cl7 | 040186-70-7 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,4,4',5,5'-... | 392 | C12H3Cl7 | 035065-29-3 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,4',5,6'-... | 392 | C12H3Cl7 | 060145-23-5 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,5,5',6-h... | 392 | C12H3Cl7 | 052712-05-7 | 99 |
| 5 | 1,1'-Biphenyl, 2,3,3',4,5,5',6-h... | 392 | C12H3Cl7 | 074472-51-8 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

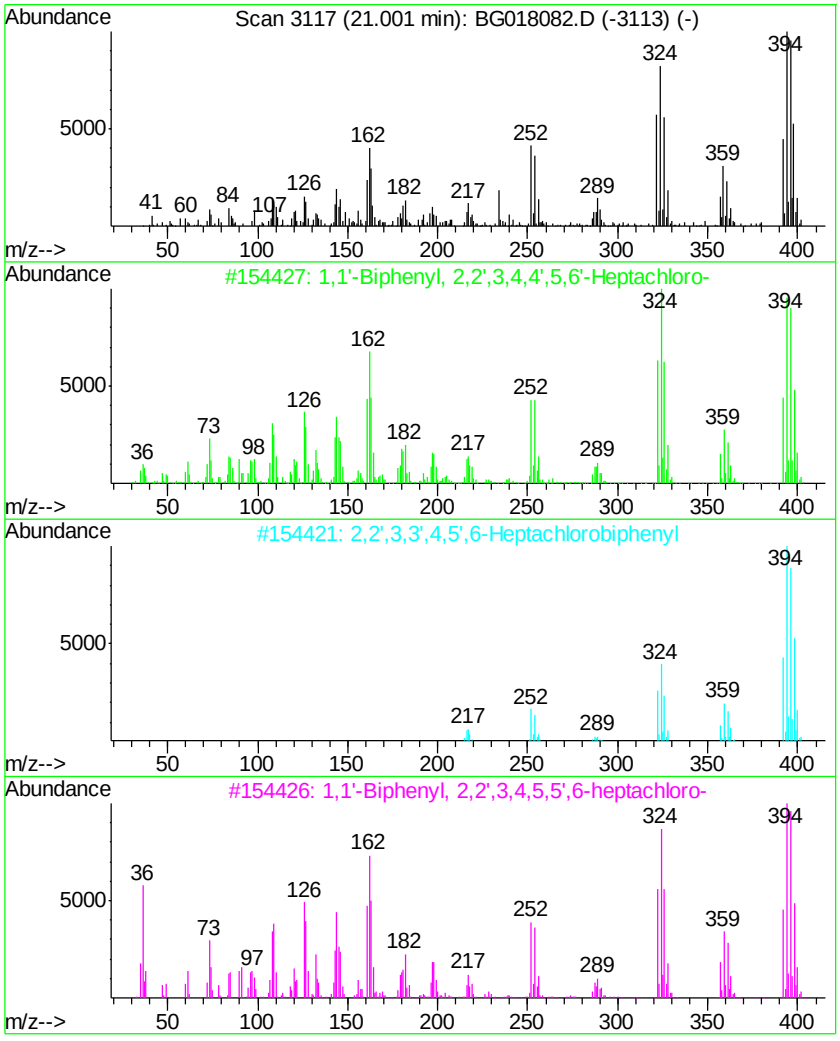
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

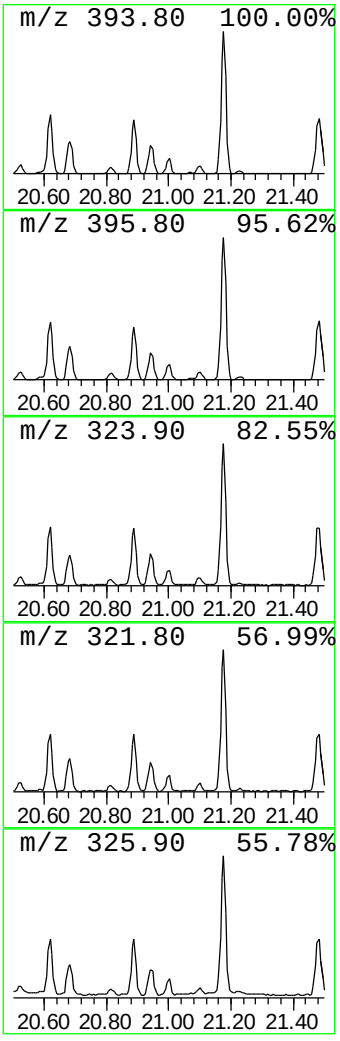
**********

Peak Number 25 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.00 | 2.74 ng/ul | 201101 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,4',5,6'-... | 392 | C12H3Cl7 | 060145-23-5 | 99 |
| 2 | 2,2',3,3',4,5',6-Heptachlorobiph... | 392 | C12H3Cl7 | 040186-70-7 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,5,5',6-h... | 392 | C12H3Cl7 | 052712-05-7 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,4,4',5',6-... | 392 | C12H3Cl7 | 052663-69-1 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,4',5,5',6-... | 392 | C12H3Cl7 | 052663-68-0 | 96 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

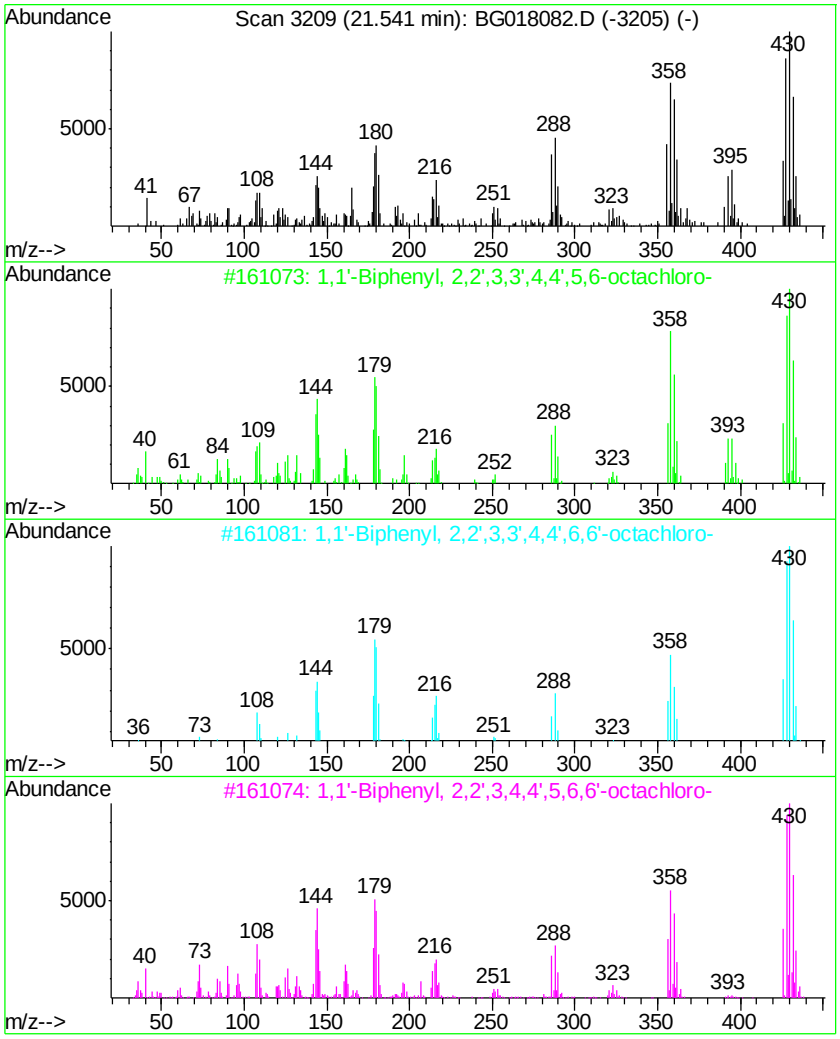
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

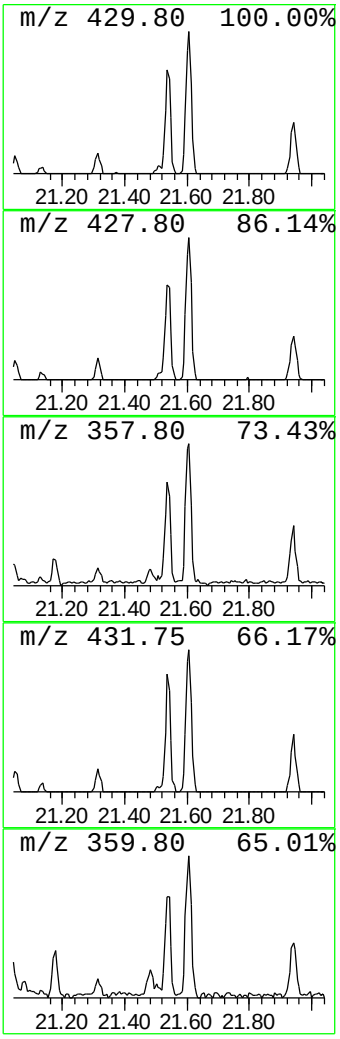
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.54 | 3.63 ng/ul | 266670 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 052663-78-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,3',4,4',6,... | 426 | C12H2Cl8 | 033091-17-7 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,4,4',5,6,6... | 426 | C12H2Cl8 | 074472-52-9 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,3',5,5',6,... | 426 | C12H2Cl8 | 002136-99-4 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 042740-50-1 | 99 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

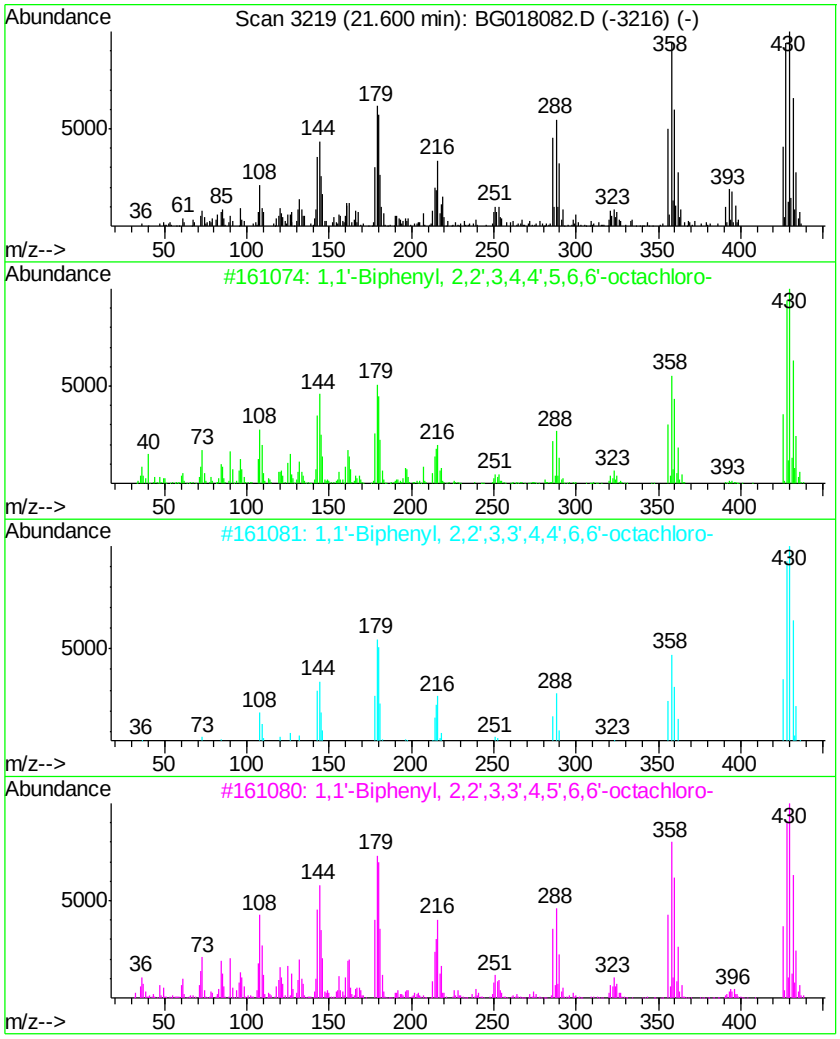
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

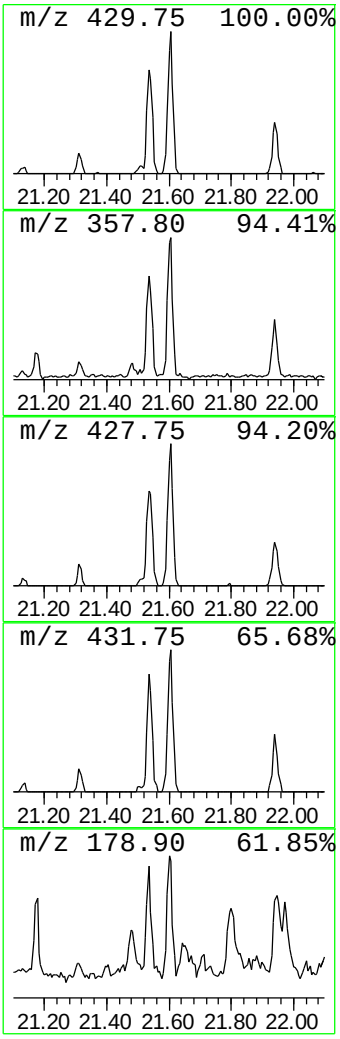
**********

Peak Number 28 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.60 | 4.12 ng/ul | 302474 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4,4',5,6,6... | 426 | C12H2Cl8 | 074472-52-9 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,3',4,4',6,... | 426 | C12H2Cl8 | 033091-17-7 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,3',4,5',6,... | 426 | C12H2Cl8 | 040186-71-8 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,3',5,5',6,... | 426 | C12H2Cl8 | 002136-99-4 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 035694-08-7 | 99 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

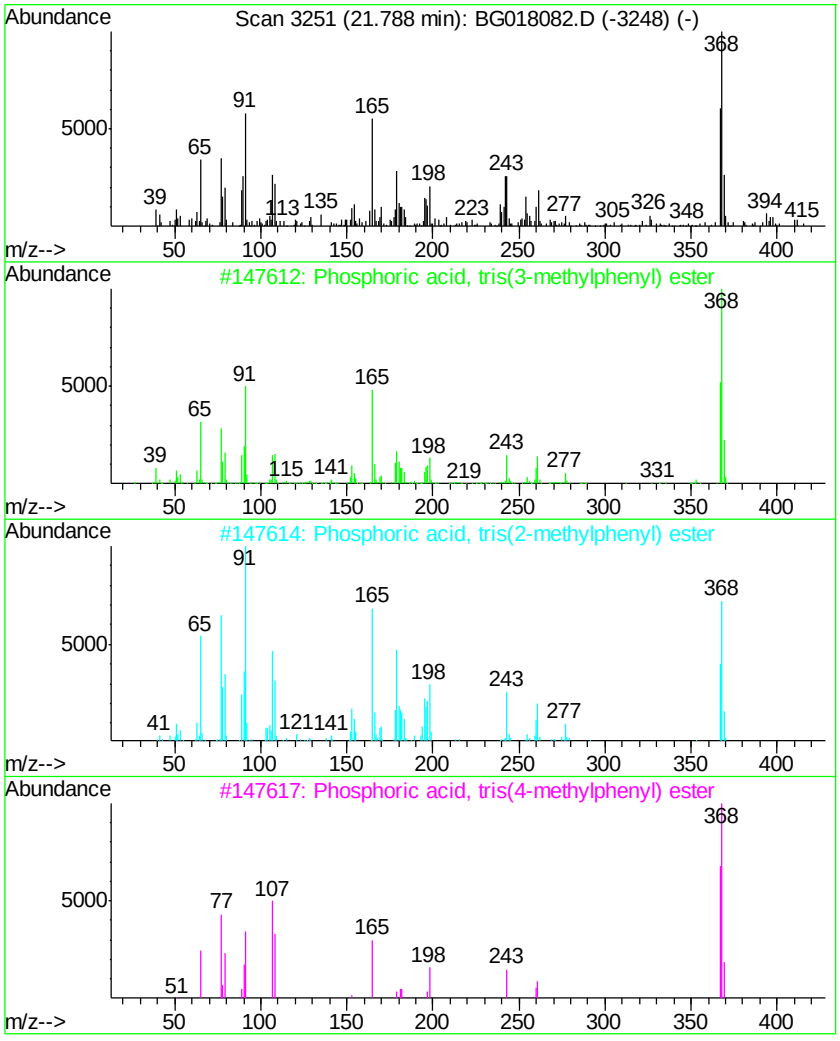
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

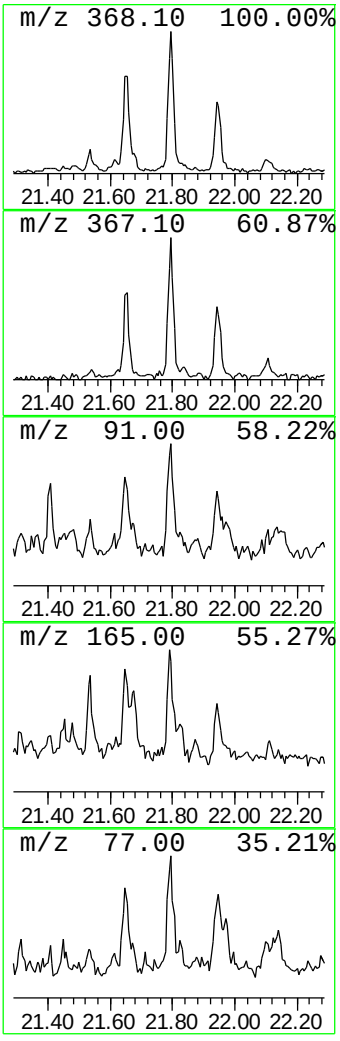
**********

Peak Number 29 Phosphoric acid, tris(3-met... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.79 | 2.20 ng/ul | 161427 | Chrysene-d12 | 21.14 |

| 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(2-methylph... | 368 | C21H21O4P | 000078-30-8 | 95 |
| 3 | Phosphoric acid, tris(4-methylph... | 368 | C21H21O4P | 000078-32-0 | 89 |
| 4 | Phosphoric acid, tris(2-methylph... | 368 | C21H21O4P | 000078-30-8 | 83 |
| 5 | Phosphoric acid, tris(3-methylph... | 368 | C21H21O4P | 000563-04-2 | 76 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

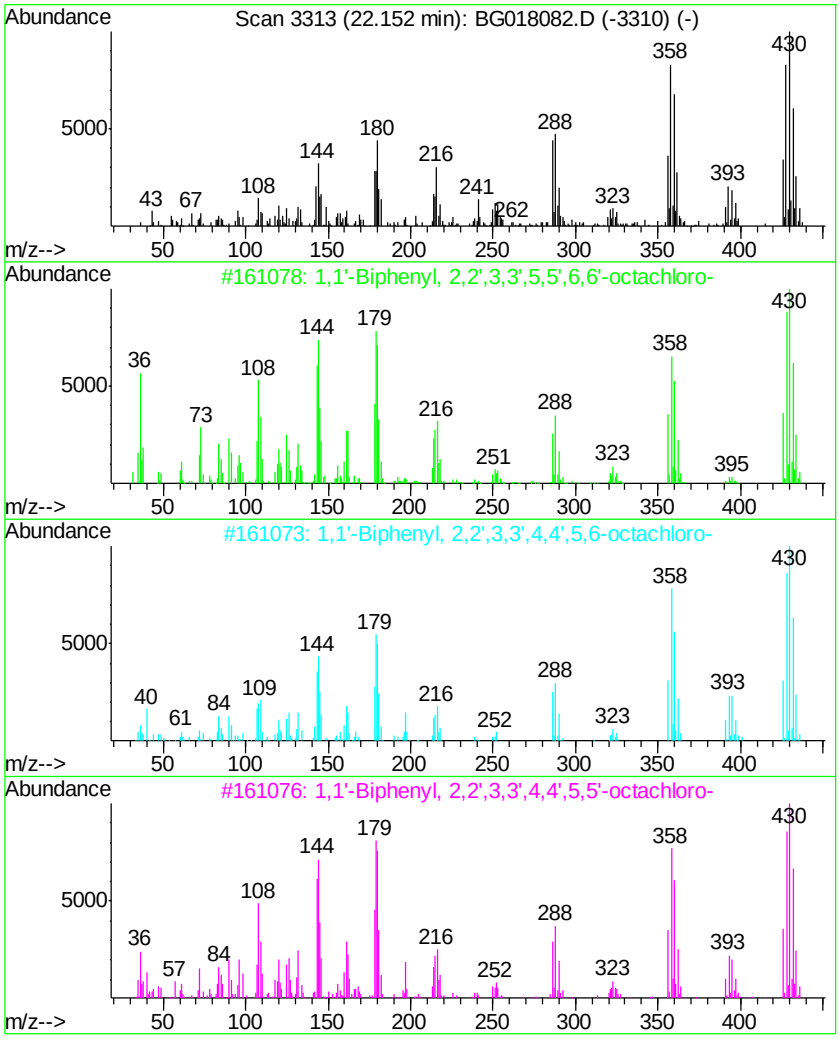
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

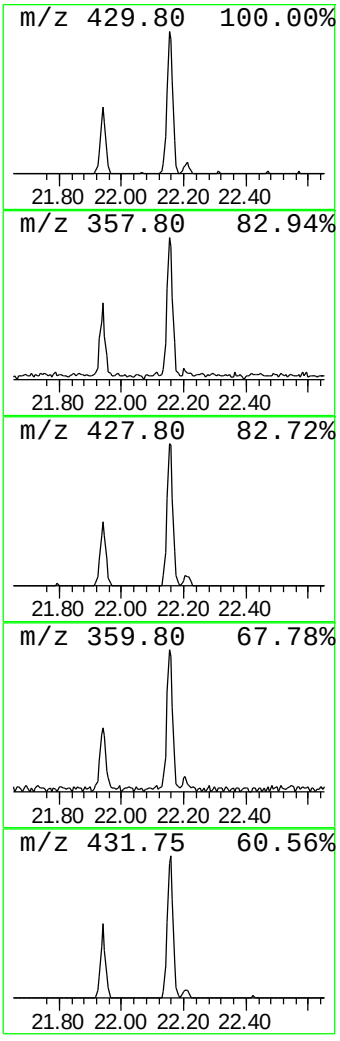
**********

Peak Number 31 1,1'-Biphenyl, 2,2',3,3',5,... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.15 | 2.33 ng/ul | 170856 | Chrysene-d12 | 21.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,3',5,5',6,... | 426 | C12H2Cl8 | 002136-99-4 | 96 |
| 2 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 052663-78-2 | 93 |
| 3 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 035694-08-7 | 91 |
| 4 | 1,1'-Biphenyl, 2,2',3,3',4,5,5',... | 426 | C12H2Cl8 | 068194-17-2 | 91 |
| 5 | 1,1'-Biphenyl, 2,2',3,3',4,4',5,... | 426 | C12H2Cl8 | 042740-50-1 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION

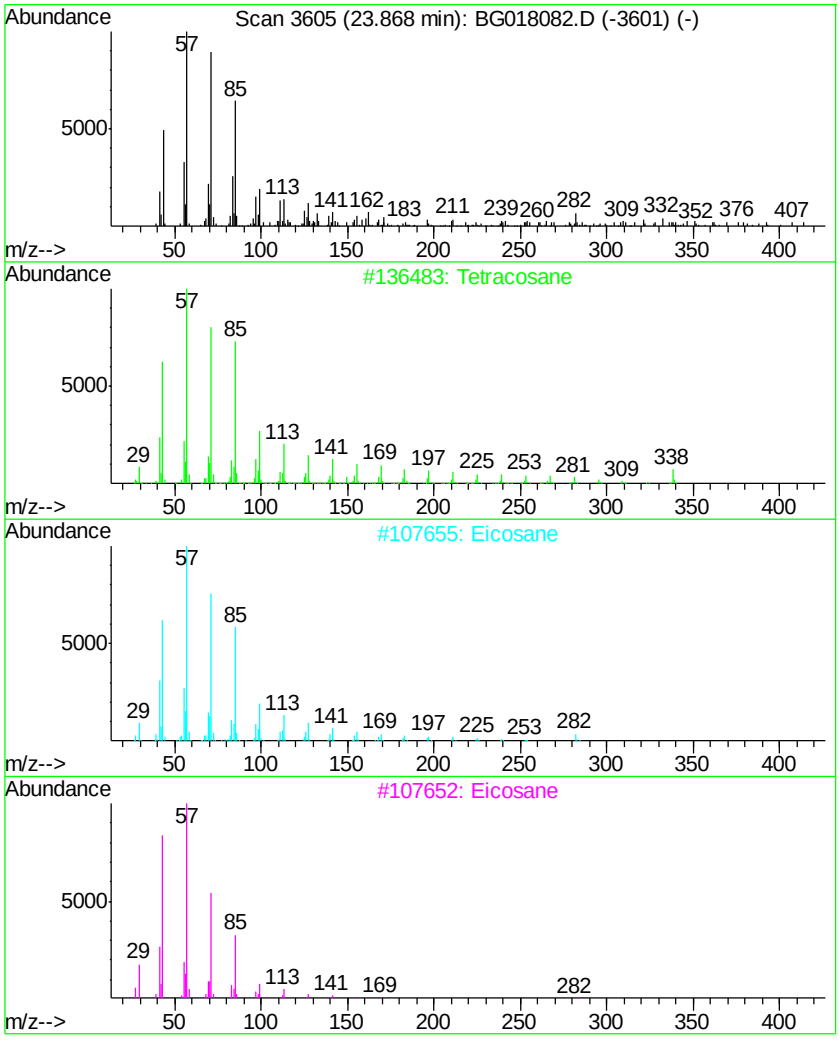
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

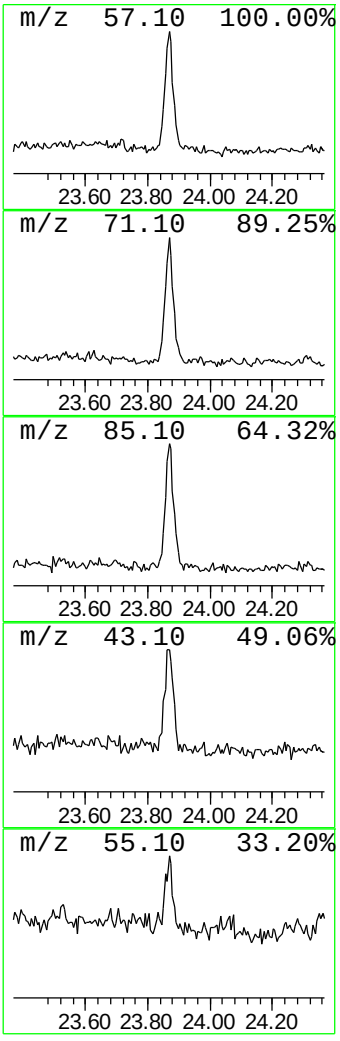
**********

Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.87 | 3.32 ng/ul | 165767 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 94 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 91 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072315\
Data File : BG018082.D
Acq On : 24 Jul 2015 1:33
Operator : TP/UM
Sample : G3035-16
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01K4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.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 |
| Phenanthrene, 1-m... | 17.86 | 2.7 | ng/ul | 123115 | 4 | 16.93 | 902295 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.02 | 5.3 | ng/ul | 240762 | 4 | 16.93 | 902295 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.30 | 2.7 | ng/ul | 121249 | 4 | 16.93 | 902295 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.87 | 17.2 | ng/ul | 777491 | 4 | 16.93 | 902295 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.09 | 2.1 | ng/ul | 153745 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.16 | 12.3 | ng/ul | 905034 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.50 | 2.0 | ng/ul | 148992 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.61 | 6.2 | ng/ul | 455228 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 3,... | 19.87 | 24.9 | ng/ul | 1832120 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.93 | 3.0 | ng/ul | 218673 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.08 | 3.5 | ng/ul | 259755 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.15 | 27.6 | ng/ul | 2027780 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.21 | 9.2 | ng/ul | 678224 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.31 | 10.7 | ng/ul | 782548 | 5 | 21.14 | 1469040 | 20.0 |
| 2,2',3,3',4,5',6-... | 20.89 | 9.4 | ng/ul | 693347 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 21.00 | 2.7 | ng/ul | 201101 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 21.54 | 3.6 | ng/ul | 266670 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 21.60 | 4.1 | ng/ul | 302474 | 5 | 21.14 | 1469040 | 20.0 |
| Phosphoric acid, ... | 21.79 | 2.2 | ng/ul | 161427 | 5 | 21.14 | 1469040 | 20.0 |
| 1,1'-Biphenyl, 2,... | 22.15 | 2.3 | ng/ul | 170856 | 5 | 21.14 | 1469040 | 20.0 |
| (DEL) Alkane: Str... | 23.87 | 3.3 | ng/ul | 165767 | 6 | 23.33 | 999356 | 20.0 |