LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

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

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

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.729 | 342 | 347 | 352 | rBV | 19371 | 25515 | 1.86% | 0.338% |
| 2 | 5.217 | 424 | 430 | 439 | rBV | 333994 | 462416 | 33.80% | 6.118% |
| 3 | 6.827 | 697 | 704 | 715 | rBV | 336822 | 522238 | 38.17% | 6.909% |
| 4 | 7.168 | 754 | 762 | 771 | rBV | 332828 | 517730 | 37.84% | 6.850% |
| 5 | 7.626 | 834 | 840 | 846 | rBV | 81151 | 124225 | 9.08% | 1.644% |
| 6 | 7.943 | 887 | 894 | 902 | rBB | 236934 | 364334 | 26.63% | 4.820% |
| 7 | 8.789 | 1030 | 1038 | 1047 | rBV | 199662 | 324808 | 23.74% | 4.297% |
| 8 | 10.417 | 1308 | 1315 | 1323 | rBV | 108190 | 176140 | 12.87% | 2.330% |
| 9 | 12.902 | 1732 | 1738 | 1750 | rBV | 479815 | 699966 | 51.16% | 9.261% |
| 10 | 13.754 | 1878 | 1883 | 1890 | rBV | 43971 | 67202 | 4.91% | 0.889% |
| 11 | 14.289 | 1967 | 1974 | 1982 | rBV2 | 173421 | 251682 | 18.40% | 3.330% |
| 12 | 15.787 | 2223 | 2229 | 2237 | rBV | 514780 | 708949 | 51.82% | 9.380% |
| 13 | 17.038 | 2437 | 2442 | 2447 | rBV2 | 265885 | 356186 | 26.03% | 4.712% |
| 14 | 17.943 | 2593 | 2596 | 2603 | rVB5 | 15782 | 23075 | 1.69% | 0.305% |
| 15 | 18.390 | 2666 | 2672 | 2676 | rVB4 | 16348 | 23937 | 1.75% | 0.317% |
| 16 | 18.666 | 2715 | 2719 | 2725 | rVB3 | 26556 | 40085 | 2.93% | 0.530% |
| 17 | 18.936 | 2760 | 2765 | 2770 | rVB3 | 22462 | 31822 | 2.33% | 0.421% |
| 18 | 19.048 | 2779 | 2784 | 2789 | rVB | 40696 | 49581 | 3.62% | 0.656% |
| 19 | 19.165 | 2799 | 2804 | 2809 | rVB3 | 31040 | 42738 | 3.12% | 0.565% |
| 20 | 19.353 | 2833 | 2836 | 2838 | rBV2 | 13658 | 16580 | 1.21% | 0.219% |
| 21 | 19.377 | 2838 | 2840 | 2845 | rVB3 | 17396 | 24386 | 1.78% | 0.323% |
| 22 | 19.465 | 2849 | 2855 | 2858 | rBV3 | 9418 | 14966 | 1.09% | 0.198% |
| 23 | 19.553 | 2865 | 2870 | 2876 | rBV | 54538 | 68293 | 4.99% | 0.904% |
| 24 | 19.629 | 2879 | 2883 | 2886 | rBV3 | 21647 | 24971 | 1.83% | 0.330% |
| 25 | 19.676 | 2886 | 2891 | 2897 | rVV | 1137108 | 1368159 | 100.00% | 18.101% |
| 26 | 19.718 | 2897 | 2898 | 2903 | rVB2 | 16035 | 14208 | 1.04% | 0.188% |
| 27 | 19.794 | 2907 | 2911 | 2918 | rBV6 | 8158 | 14551 | 1.06% | 0.193% |
| 28 | 19.888 | 2922 | 2927 | 2932 | rVB | 114243 | 140904 | 10.30% | 1.864% |
| 29 | 20.423 | 3015 | 3018 | 3023 | rVB6 | 13327 | 16892 | 1.23% | 0.223% |
| 30 | 20.946 | 3103 | 3107 | 3117 | rBV3 | 44650 | 77911 | 5.69% | 1.031% |
| 31 | 21.233 | 3149 | 3156 | 3160 | rBV | 370891 | 487351 | 35.62% | 6.448% |
| 32 | 22.403 | 3351 | 3355 | 3360 | rVB2 | 18144 | 19537 | 1.43% | 0.258% |
| 33 | 23.466 | 3528 | 3536 | 3543 | rBV | 256258 | 457047 | 33.41% | 6.047% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SB-21D

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

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

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

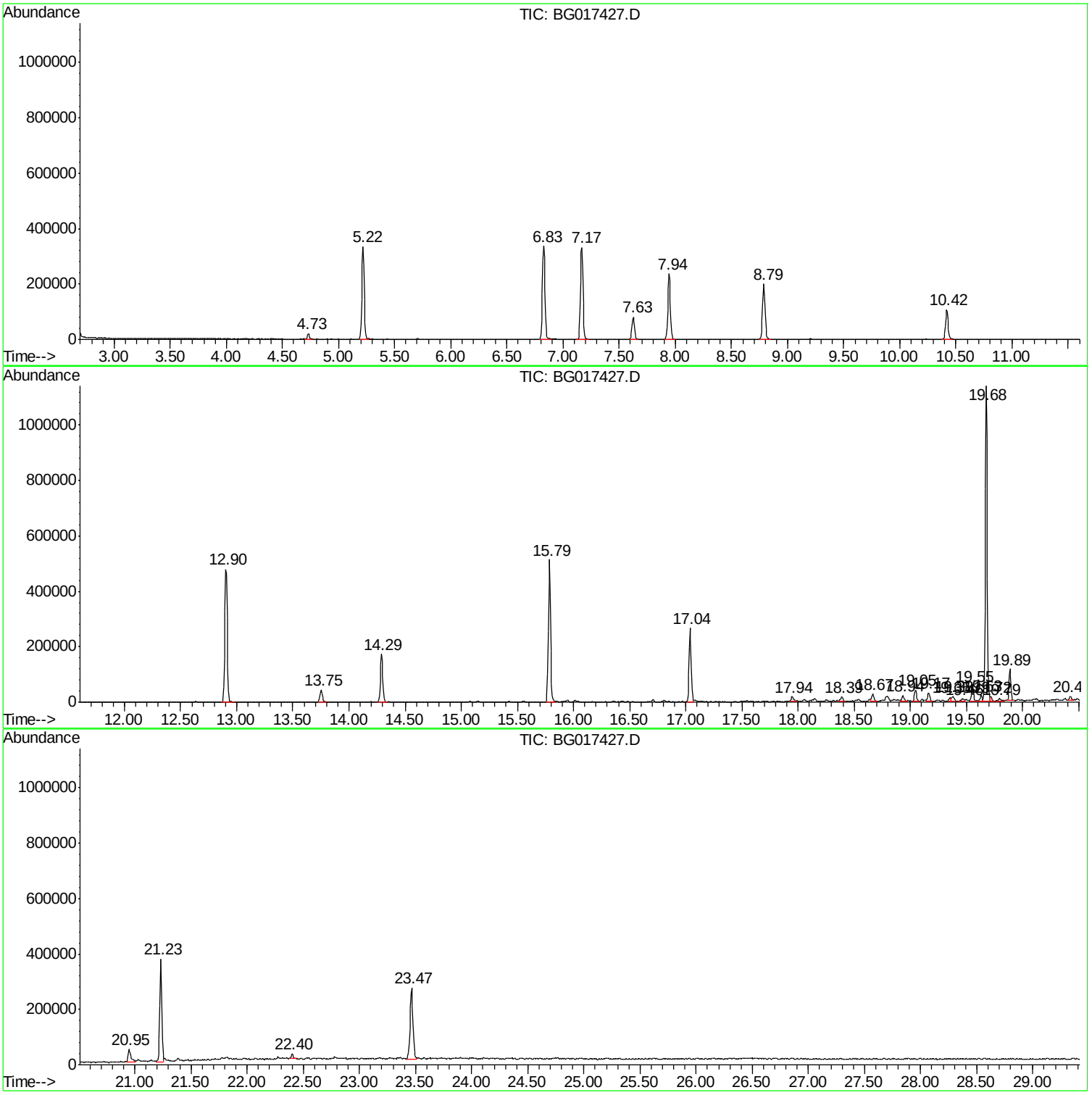
Sum of corrected areas: 7558385

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

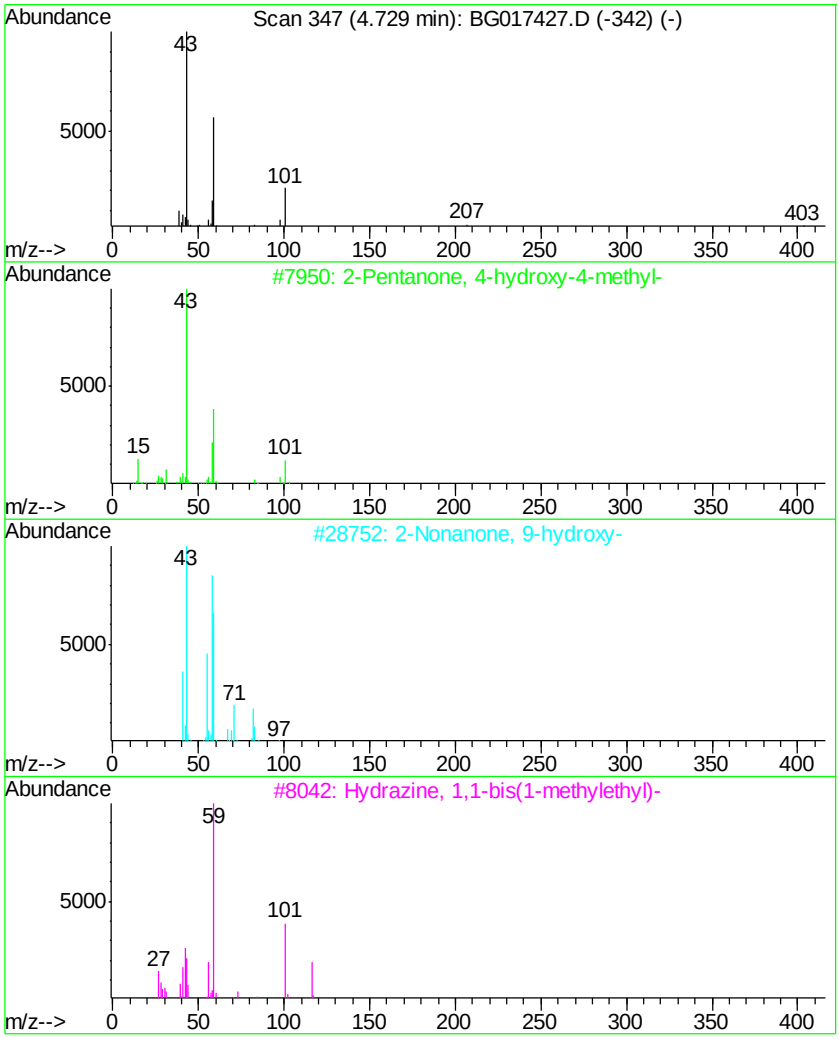
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

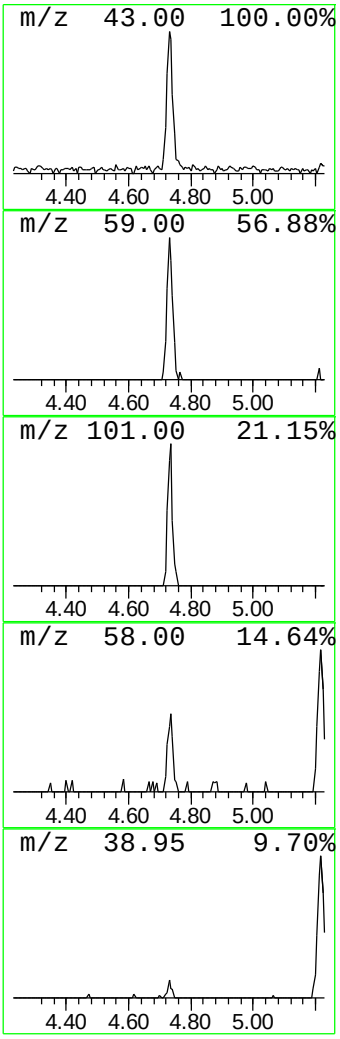
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.73 | 4.11 ng | 25515 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | 2-Nonanone, 9-hydroxy- | 158 | C9H18O2 | 025368-56-3 | 28 |
| 3 | Hydrazine, 1,1-bis(1-methylethyl)- | 116 | C6H16N2 | 000921-14-2 | 28 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |
| 5 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 12 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

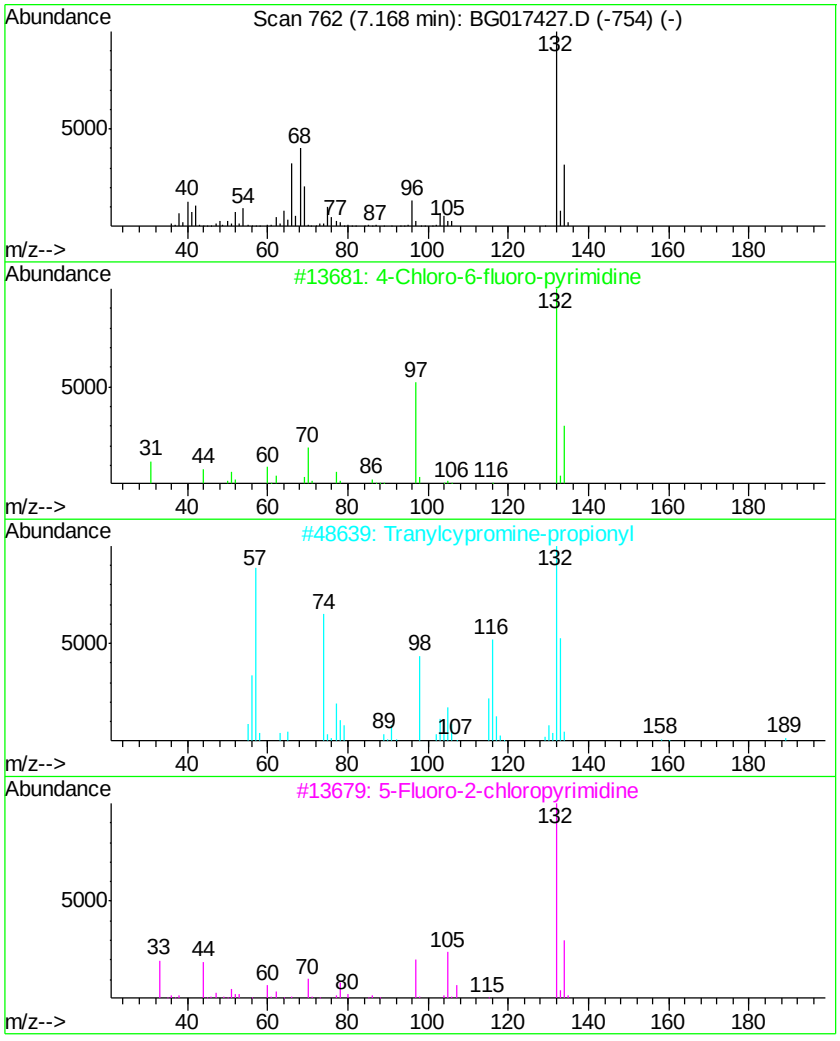
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

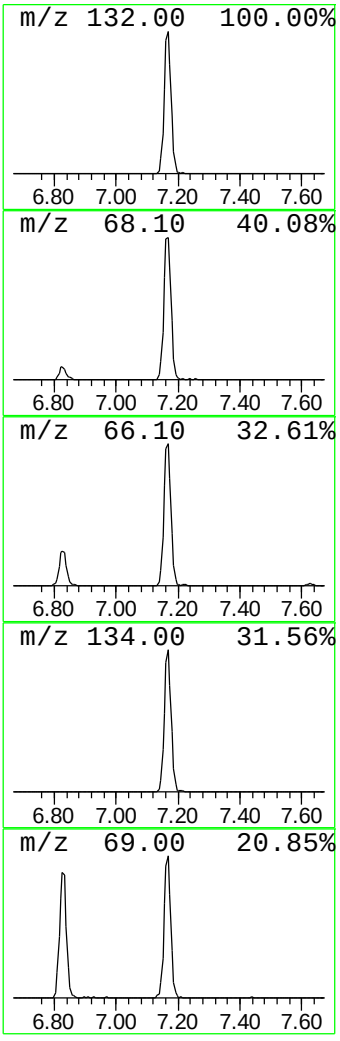
**********

Peak Number 2 unknown7.17 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.17 | 83.35 ng | 517730 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 22 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 12 |
| 5 | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2 | 034760-58-2 | 12 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

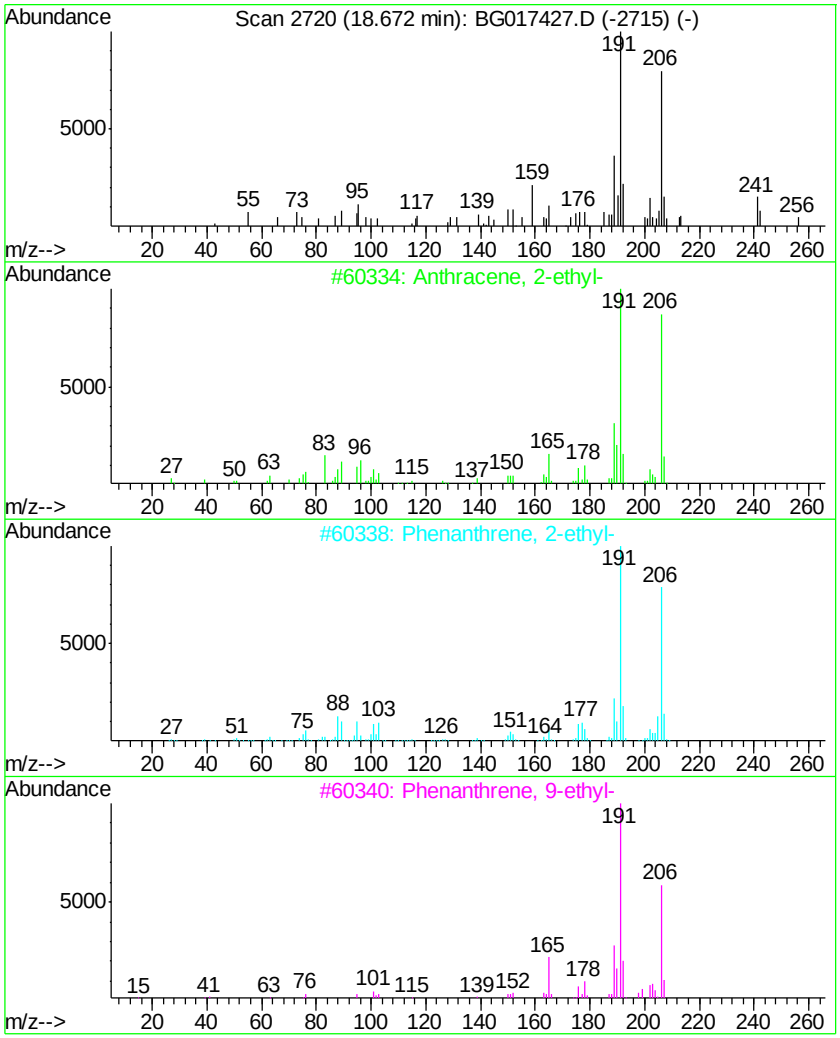
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

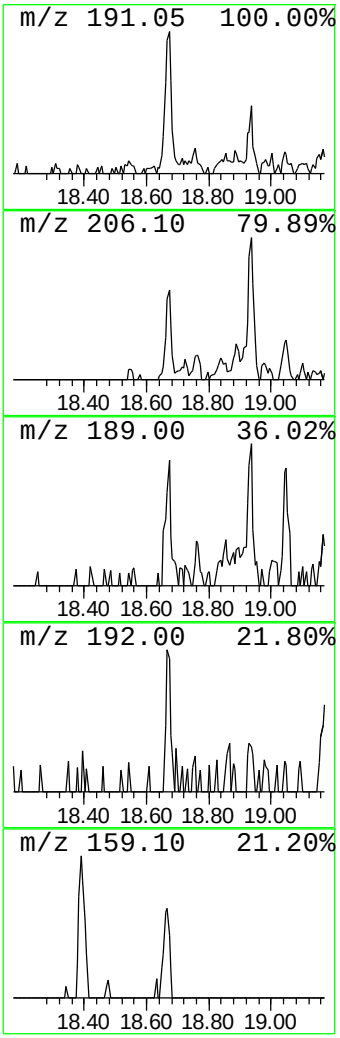
**********

Peak Number 4 Anthracene, 2-ethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.67 | 2.25 ng | 40085 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 76 |
| 2 | Phenanthrene, 2-ethyl- | 206 | C16H14 | 003674-74-6 | 76 |
| 3 | Phenanthrene, 9-ethyl- | 206 | C16H14 | 003674-75-7 | 76 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 62 |
| 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 58 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

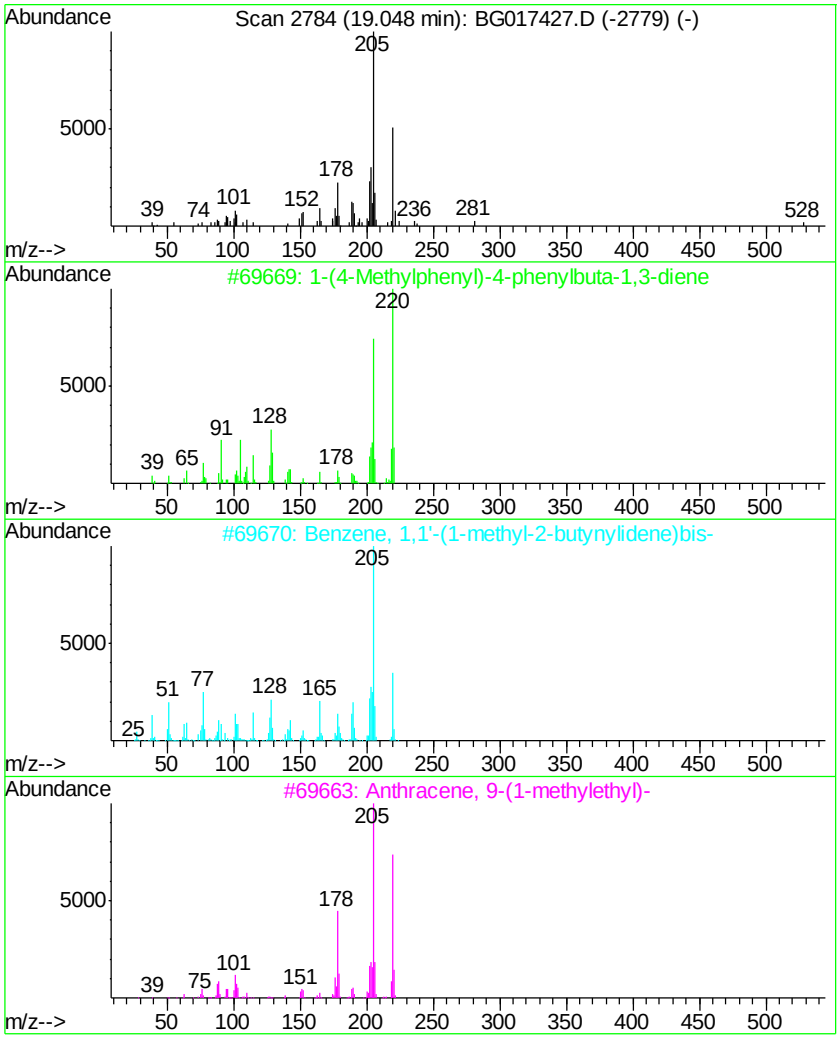
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

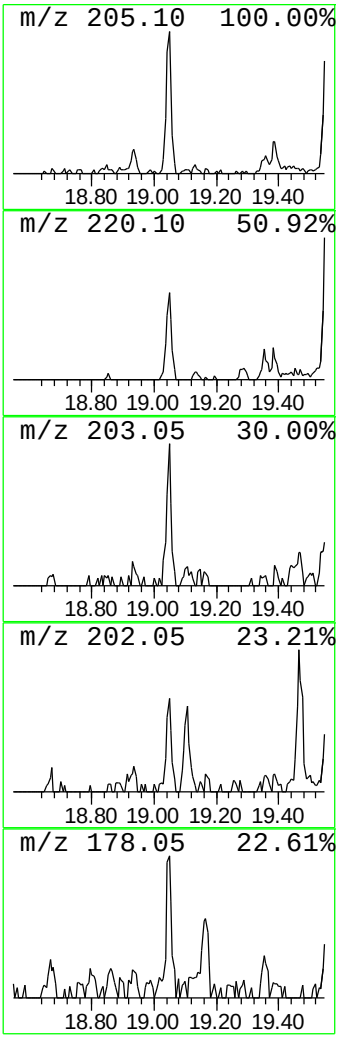
**********

Peak Number 5 1-(4-Methylphenyl)-4-phenyl... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.05 | 2.78 ng | 49581 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(4-Methylphenyl)-4-phenylbuta-... | 220 | C17H16 | 037985-11-8 | 80 |
| 2 | Benzene, 1,1'-(1-methyl-2-butyny... | 220 | C17H16 | 054372-84-8 | 68 |
| 3 | Anthracene, 9-(1-methylethyl)- | 220 | C17H16 | 001498-80-2 | 64 |
| 4 | 1,3-Pentadiene, 1,1-diphenyl-, (Z)- | 220 | C17H16 | 015295-31-5 | 64 |
| 5 | 1-Ethyl-2-methylphenanthrene | 220 | C17H16 | 061983-53-7 | 55 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

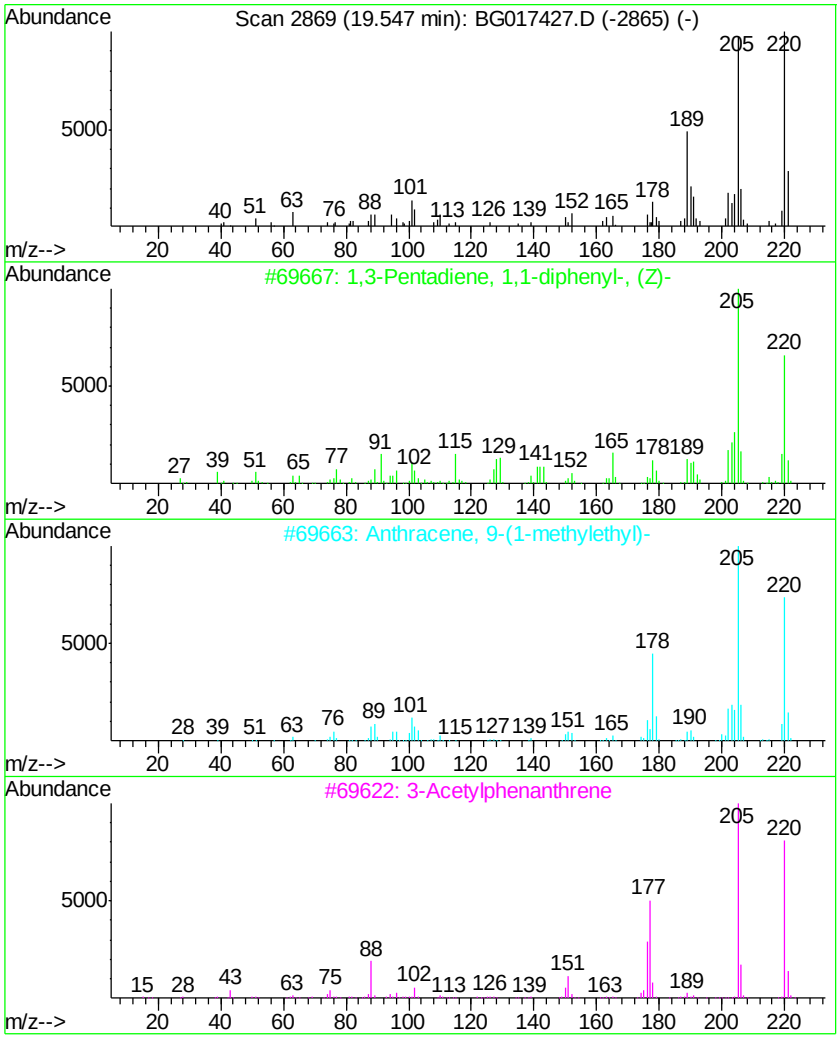
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

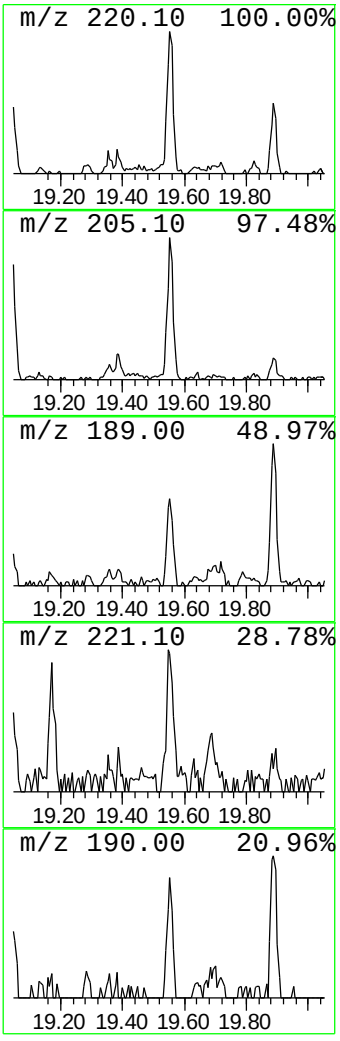
**********

Peak Number 6 1,3-Pentadiene, 1,1-dipheny... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.55 | 2.80 ng | 68293 | Chrysene-d12 | 21.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Pentadiene, 1,1-diphenyl-, (Z)- | 220 | C17H16 | 015295-31-5 | 83 |
| 2 | Anthracene, 9-(1-methylethyl)- | 220 | C17H16 | 001498-80-2 | 72 |
| 3 | 3-Acetylphenanthrene | 220 | C16H12O | 002039-76-1 | 68 |
| 4 | Benzo[b]dihydropyran, 6-hydroxy-... | 220 | C14H20O2 | 050442-70-1 | 64 |
| 5 | Phenanthrene, 2,3,5-trimethyl- | 220 | C17H16 | 003674-73-5 | 62 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

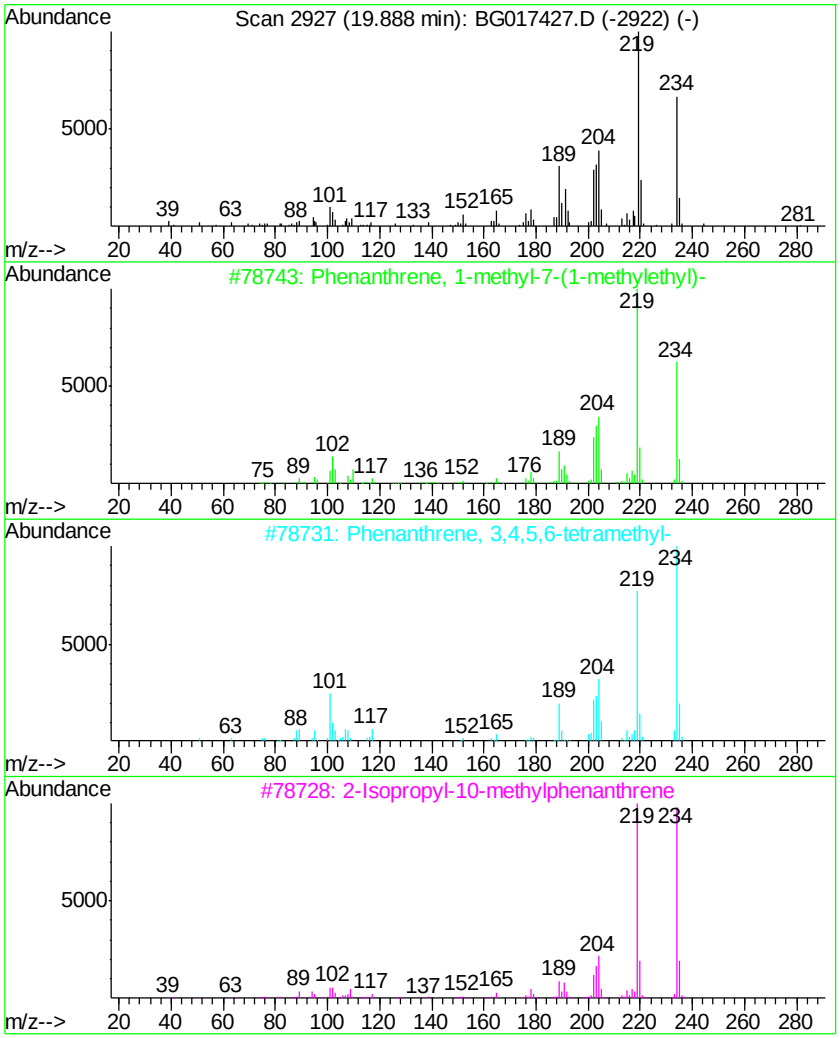
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

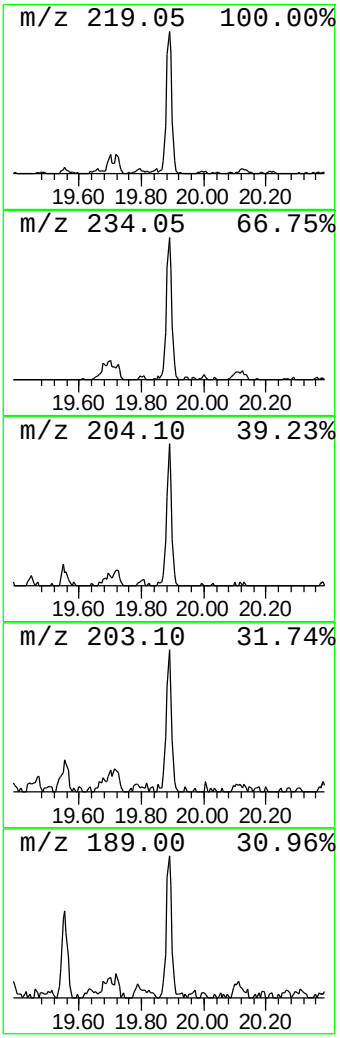
**********

Peak Number 7 Phenanthrene, 1-methyl-7-(1... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.89 | 5.78 ng | 140904 | Chrysene-d12 | 21.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl-7-(1-meth... | 234 | C18H18 | 000483-65-8 | 96 |
| 2 | Phenanthrene, 3,4,5,6-tetramethyl- | 234 | C18H18 | 007343-06-8 | 93 |
| 3 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 93 |
| 4 | Phenanthrene, 2,4,5,7-tetramethyl- | 234 | C18H18 | 007396-38-5 | 89 |
| 5 | 1-(10-Methylanthracen-9-yl)ethanone | 234 | C17H14O | 036778-18-4 | 60 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

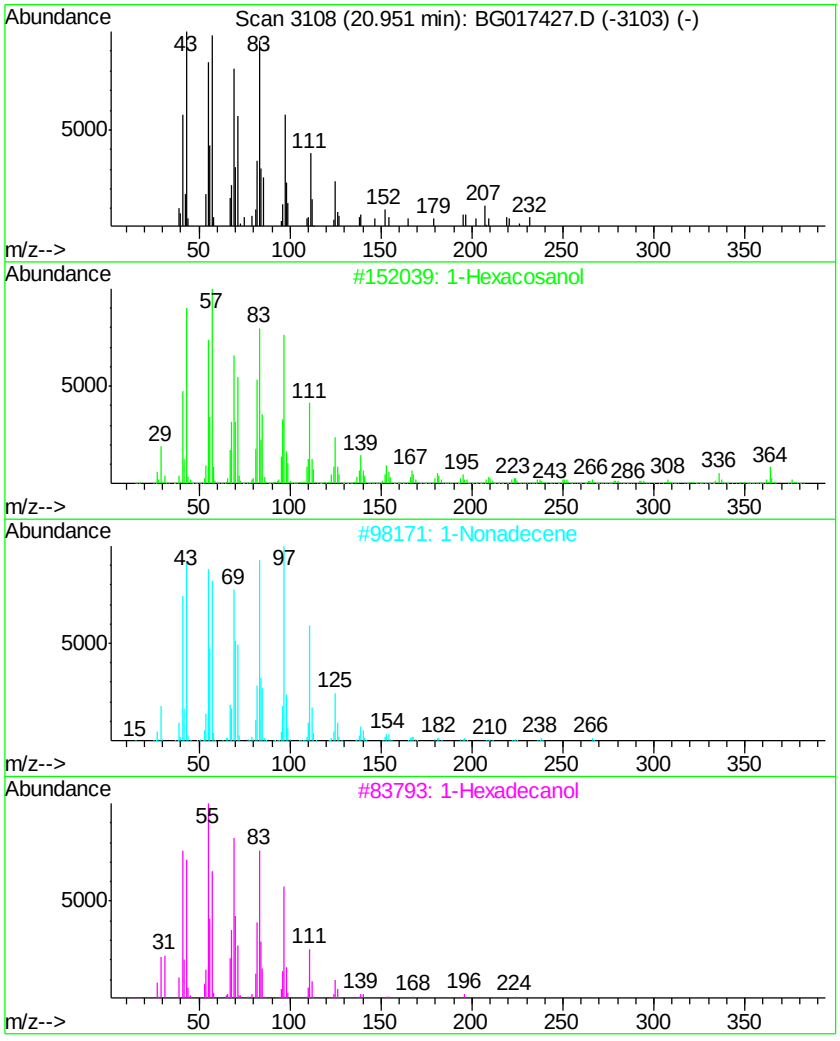
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

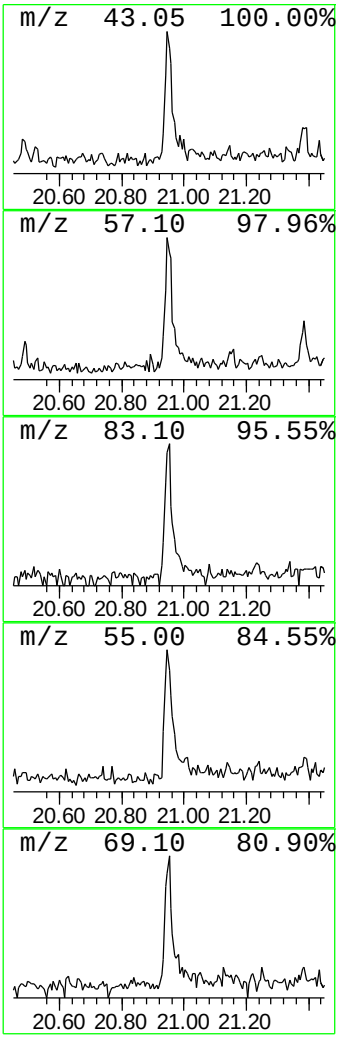
**********

Peak Number 8 1-Hexacosanol Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.95 | 3.20 ng | 77911 | Chrysene-d12 | 21.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexacosanol | 382 | C26H54O | 000506-52-5 | 91 |
| 2 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 86 |
| 3 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 80 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 74 |
| 5 | 1-Tricosanol | 340 | C23H48O | 003133-01-5 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060315\
Data File : BG017427.D
Acq On : 4 Jun 2015 4:33
Operator : TP/IZ
Sample : G2408-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SB-21D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.73 | 4.1 | ng | 25515 | 1 | 7.63 | 124225 | 20.0 |
| unknown7.17 | 7.17 | 83.3 | ng | 517730 | 1 | 7.63 | 124225 | 20.0 |
| Anthracene, 2-ethyl- | 18.67 | 2.3 | ng | 40085 | 4 | 17.04 | 356186 | 20.0 |
| 1-(4-Methylphenyl... | 19.05 | 2.8 | ng | 49581 | 4 | 17.04 | 356186 | 20.0 |
| 1,3-Pentadiene, 1... | 19.55 | 2.8 | ng | 68293 | 5 | 21.23 | 487351 | 20.0 |
| Phenanthrene, 1-m... | 19.89 | 5.8 | ng | 140904 | 5 | 21.23 | 487351 | 20.0 |
| 1-Hexacosanol | 20.95 | 3.2 | ng | 77911 | 5 | 21.23 | 487351 | 20.0 |