LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

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-BG060616.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 | 2.879 | 3 | 7 | 26 | rVB | 860018 | 1342902 | 86.50% | 9.807% |
| 2 | 5.112 | 381 | 387 | 398 | rVB | 30463 | 58316 | 3.76% | 0.426% |
| 3 | 5.617 | 466 | 473 | 488 | rBV | 237042 | 461549 | 29.73% | 3.371% |
| 4 | 7.250 | 743 | 751 | 777 | rBV | 258409 | 582578 | 37.53% | 4.254% |
| 5 | 7.597 | 802 | 810 | 824 | rBV | 296106 | 577282 | 37.19% | 4.216% |
| 6 | 8.055 | 879 | 888 | 898 | rBV | 69530 | 133079 | 8.57% | 0.972% |
| 7 | 8.378 | 935 | 943 | 954 | rBV | 250072 | 479018 | 30.86% | 3.498% |
| 8 | 9.230 | 1080 | 1088 | 1105 | rBV | 157682 | 358588 | 23.10% | 2.619% |
| 9 | 10.875 | 1360 | 1368 | 1382 | rBV | 94923 | 221952 | 14.30% | 1.621% |
| 10 | 13.314 | 1775 | 1783 | 1803 | rBV | 619688 | 1113160 | 71.70% | 8.129% |
| 11 | 14.142 | 1917 | 1924 | 1933 | rBV | 78415 | 137402 | 8.85% | 1.003% |
| 12 | 14.694 | 2011 | 2018 | 2025 | rBV2 | 192177 | 349032 | 22.48% | 2.549% |
| 13 | 14.759 | 2025 | 2029 | 2036 | rVB | 9133 | 18114 | 1.17% | 0.132% |
| 14 | 15.505 | 2151 | 2156 | 2162 | rVB3 | 13922 | 21568 | 1.39% | 0.158% |
| 15 | 15.746 | 2191 | 2197 | 2206 | rBV2 | 9699 | 17289 | 1.11% | 0.126% |
| 16 | 16.187 | 2266 | 2272 | 2289 | rBV | 302522 | 574359 | 37.00% | 4.194% |
| 17 | 16.369 | 2298 | 2303 | 2312 | rBV2 | 15675 | 28307 | 1.82% | 0.207% |
| 18 | 17.027 | 2408 | 2415 | 2421 | rBV | 23129 | 36984 | 2.38% | 0.270% |
| 19 | 17.438 | 2479 | 2485 | 2489 | rBV | 229092 | 405348 | 26.11% | 2.960% |
| 20 | 17.479 | 2489 | 2492 | 2501 | rVV | 133949 | 233981 | 15.07% | 1.709% |
| 21 | 17.573 | 2501 | 2508 | 2514 | rVB | 30970 | 58103 | 3.74% | 0.424% |
| 22 | 17.861 | 2550 | 2557 | 2562 | rBV3 | 13780 | 28095 | 1.81% | 0.205% |
| 23 | 18.308 | 2626 | 2633 | 2638 | rBV2 | 21374 | 39704 | 2.56% | 0.290% |
| 24 | 18.367 | 2638 | 2643 | 2650 | rVB3 | 24625 | 46835 | 3.02% | 0.342% |
| 25 | 18.508 | 2661 | 2667 | 2672 | rBV2 | 28610 | 62036 | 4.00% | 0.453% |
| 26 | 18.807 | 2713 | 2718 | 2724 | rBV2 | 10092 | 16648 | 1.07% | 0.122% |
| 27 | 19.213 | 2783 | 2787 | 2792 | rBV3 | 12431 | 21400 | 1.38% | 0.156% |
| 28 | 19.365 | 2807 | 2813 | 2822 | rVB8 | 11472 | 24250 | 1.56% | 0.177% |
| 29 | 19.483 | 2827 | 2833 | 2839 | rVV | 271911 | 443732 | 28.58% | 3.240% |
| 30 | 19.542 | 2839 | 2843 | 2847 | rVV6 | 20432 | 41007 | 2.64% | 0.299% |
| 31 | 19.706 | 2867 | 2871 | 2881 | rBV2 | 143375 | 190349 | 12.26% | 1.390% |
| 32 | 19.847 | 2882 | 2895 | 2903 | rVV | 217388 | 452736 | 29.16% | 3.306% |
| 33 | 19.912 | 2903 | 2906 | 2914 | rVB3 | 12680 | 21631 | 1.39% | 0.158% |
| 34 | 20.035 | 2921 | 2927 | 2934 | rBV | 1049988 | 1552439 | 100.00% | 11.337% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

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-BG060616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 20.153 | 2942 | 2947 | 2957 | rVB7 | 58993 | 142986 | 9.21% | 1.044% |
| 36 | 20.335 | 2966 | 2978 | 2983 | rBV2 | 48058 | 111370 | 7.17% | 0.813% |
| 37 | 20.435 | 2990 | 2995 | 2999 | rBV | 36103 | 59004 | 3.80% | 0.431% |
| 38 | 20.493 | 2999 | 3005 | 3009 | rVV3 | 18234 | 36760 | 2.37% | 0.268% |
| 39 | 20.634 | 3023 | 3029 | 3033 | rBV2 | 13083 | 23661 | 1.52% | 0.173% |
| 40 | 20.681 | 3033 | 3037 | 3044 | rVV6 | 14067 | 30191 | 1.94% | 0.220% |
| 41 | 20.746 | 3044 | 3048 | 3053 | rVV | 94315 | 123871 | 7.98% | 0.905% |
| 42 | 20.805 | 3054 | 3058 | 3062 | rVB4 | 12316 | 16922 | 1.09% | 0.124% |
| 43 | 21.099 | 3105 | 3108 | 3115 | rVB3 | 13194 | 24447 | 1.57% | 0.179% |
| 44 | 21.316 | 3129 | 3145 | 3151 | rBV4 | 149826 | 331195 | 21.33% | 2.419% |
| 45 | 21.381 | 3151 | 3156 | 3161 | rVB3 | 13613 | 29797 | 1.92% | 0.218% |
| 46 | 21.563 | 3180 | 3187 | 3192 | rBV3 | 17545 | 30259 | 1.95% | 0.221% |
| 47 | 21.710 | 3198 | 3212 | 3217 | rBV2 | 273194 | 732004 | 47.15% | 5.346% |
| 48 | 21.751 | 3217 | 3219 | 3230 | rVV | 99584 | 179881 | 11.59% | 1.314% |
| 49 | 21.851 | 3232 | 3236 | 3240 | rVV5 | 15875 | 25552 | 1.65% | 0.187% |
| 50 | 21.904 | 3240 | 3245 | 3251 | rVB2 | 66121 | 115681 | 7.45% | 0.845% |
| 51 | 21.968 | 3251 | 3256 | 3262 | rBV | 72681 | 128476 | 8.28% | 0.938% |
| 52 | 22.033 | 3262 | 3267 | 3270 | rVV2 | 21125 | 38499 | 2.48% | 0.281% |
| 53 | 22.068 | 3270 | 3273 | 3277 | rVB2 | 24961 | 37785 | 2.43% | 0.276% |
| 54 | 22.444 | 3332 | 3337 | 3345 | rVB5 | 21329 | 47446 | 3.06% | 0.346% |
| 55 | 22.509 | 3345 | 3348 | 3356 | rVB4 | 12368 | 23596 | 1.52% | 0.172% |
| 56 | 22.667 | 3368 | 3375 | 3380 | rBV9 | 14122 | 34881 | 2.25% | 0.255% |
| 57 | 22.850 | 3400 | 3406 | 3414 | rVB9 | 10779 | 27017 | 1.74% | 0.197% |
| 58 | 23.155 | 3450 | 3458 | 3467 | rBV6 | 45236 | 114108 | 7.35% | 0.833% |
| 59 | 23.555 | 3519 | 3526 | 3531 | rBV8 | 6822 | 18487 | 1.19% | 0.135% |
| 60 | 23.931 | 3580 | 3590 | 3609 | rBV3 | 64694 | 319598 | 20.59% | 2.334% |
| 61 | 24.189 | 3627 | 3634 | 3641 | rBV3 | 12377 | 30910 | 1.99% | 0.226% |
| 62 | 24.653 | 3703 | 3713 | 3725 | rVB3 | 35674 | 111217 | 7.16% | 0.812% |
| 63 | 24.812 | 3731 | 3740 | 3749 | rBV4 | 47903 | 147056 | 9.47% | 1.074% |
| 64 | 24.965 | 3757 | 3766 | 3777 | rBV2 | 109697 | 317602 | 20.46% | 2.319% |
| 65 | 26.028 | 3938 | 3947 | 3959 | rBV2 | 9623 | 35814 | 2.31% | 0.262% |
| 66 | 28.713 | 4391 | 4404 | 4412 | rBV5 | 16508 | 67991 | 4.38% | 0.497% |
| 67 | 29.877 | 4593 | 4602 | 4604 | rBV8 | 12621 | 29771 | 1.92% | 0.217% |

Sum of corrected areas: 13693608

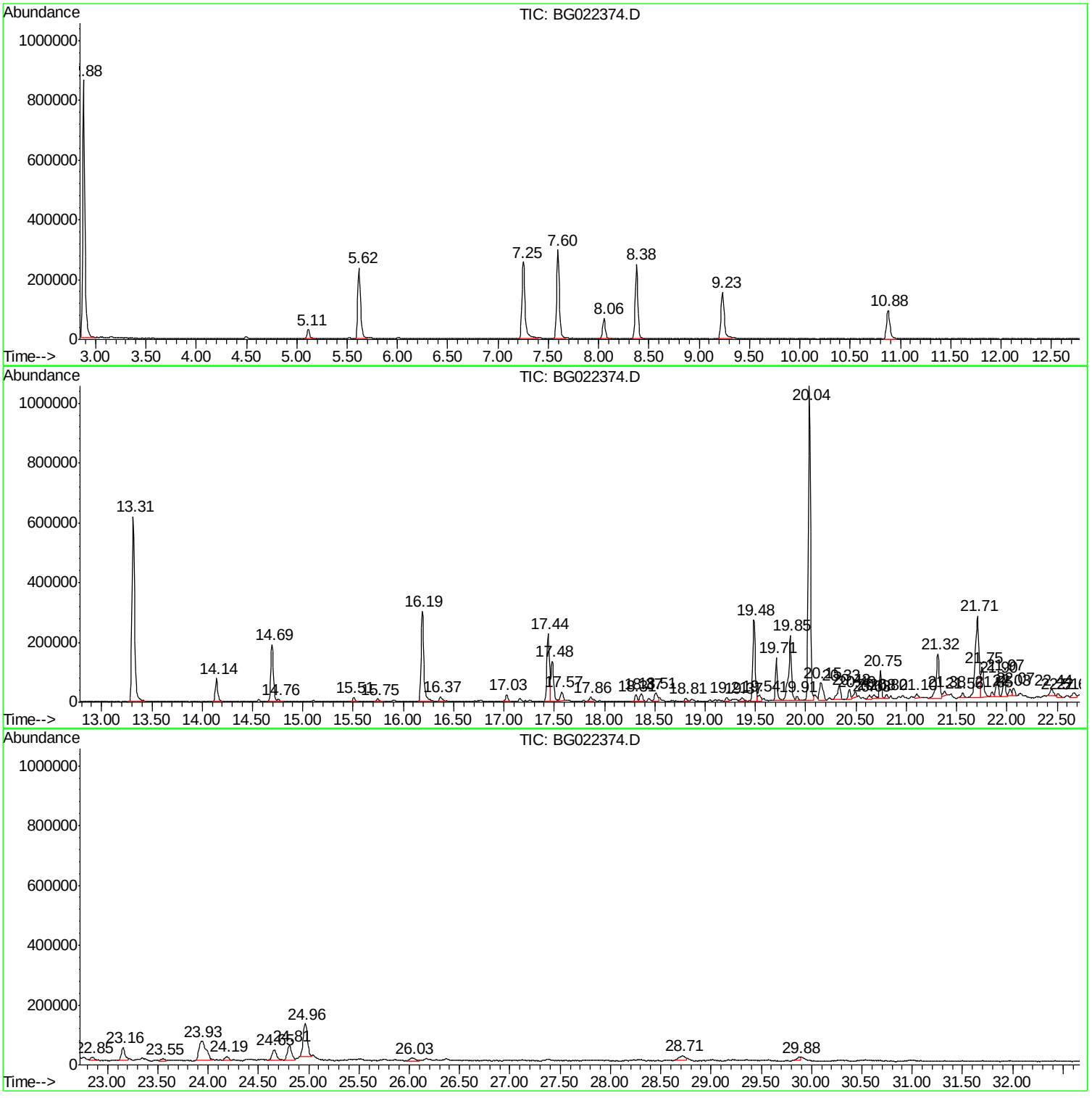
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

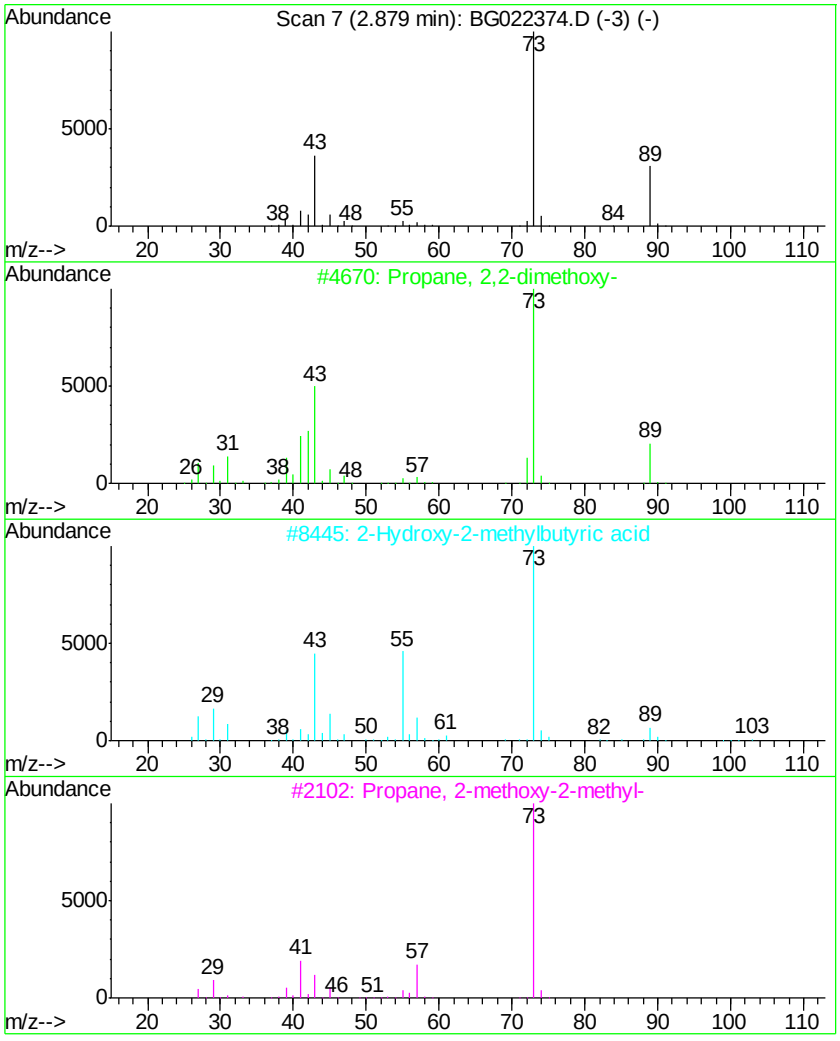
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

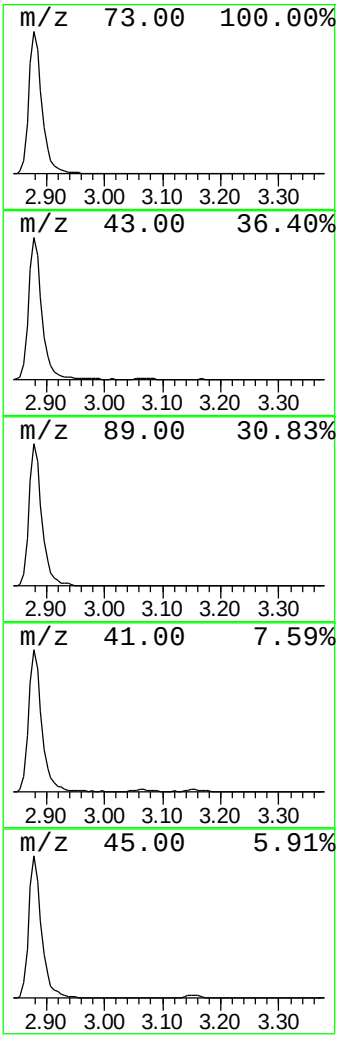
**********

Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.88 | 201.82 ng | 1342900 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 50 |
| 2 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9 |
| 3 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 7 |
| 5 | Methane, isothiocyanato- | 73 | C2H3NS | 000556-61-6 | 7 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

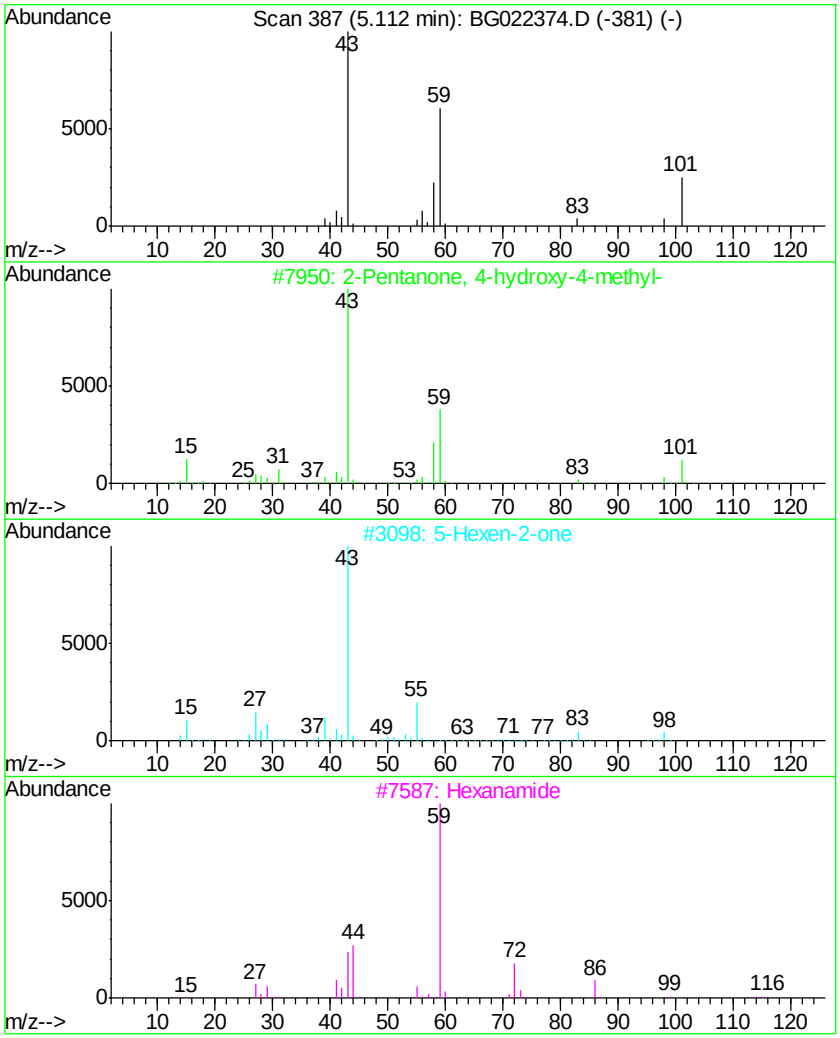
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

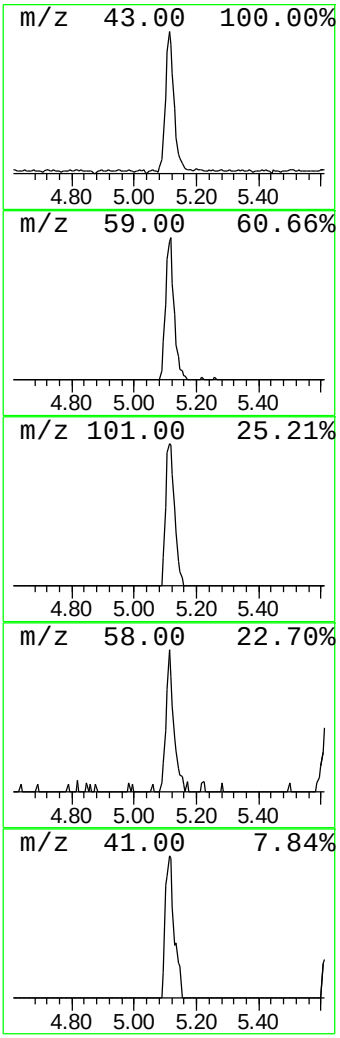
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.11 | 8.76 ng | 58316 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45 |
| 2 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 3 | Hexanamide | 115 | C6H13NO | 000628-02-4 | 9 |
| 4 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 7 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 5 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

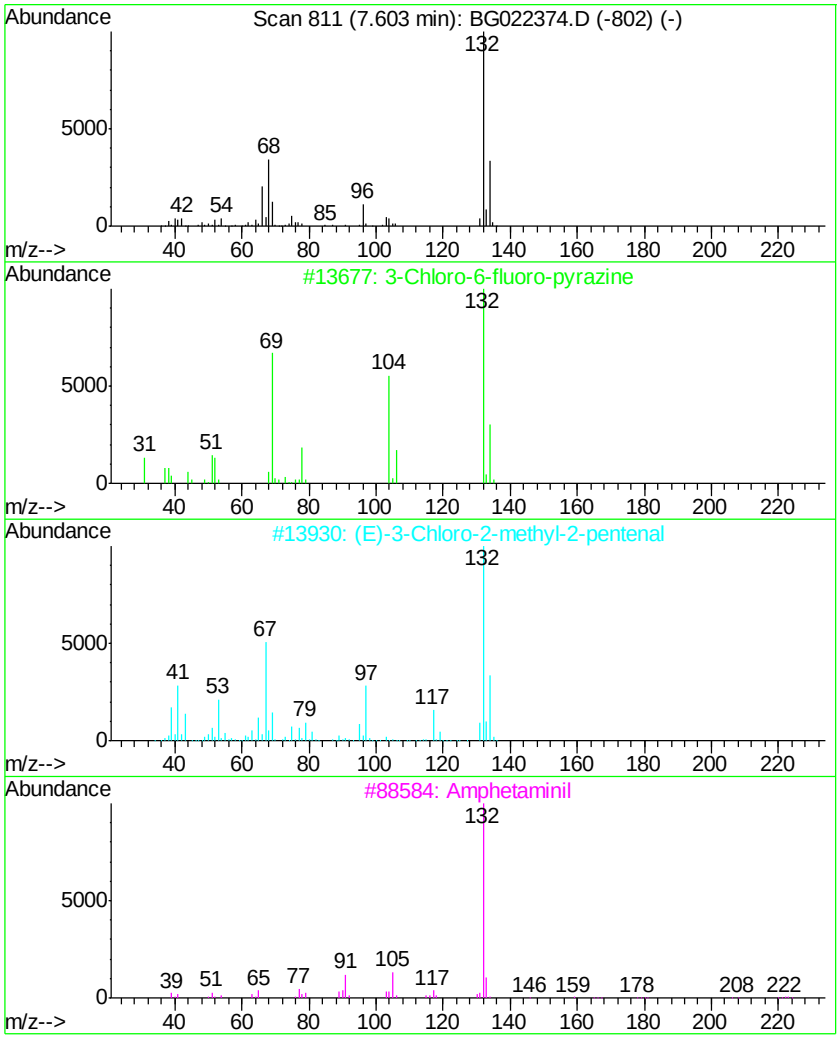
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

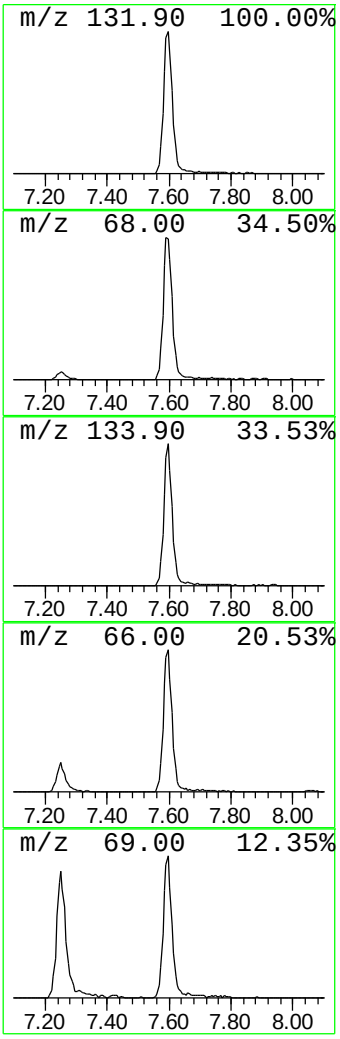
**********

Peak Number 3 unknown7.60 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.60 | 86.76 ng | 577282 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 35 |
| 3 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

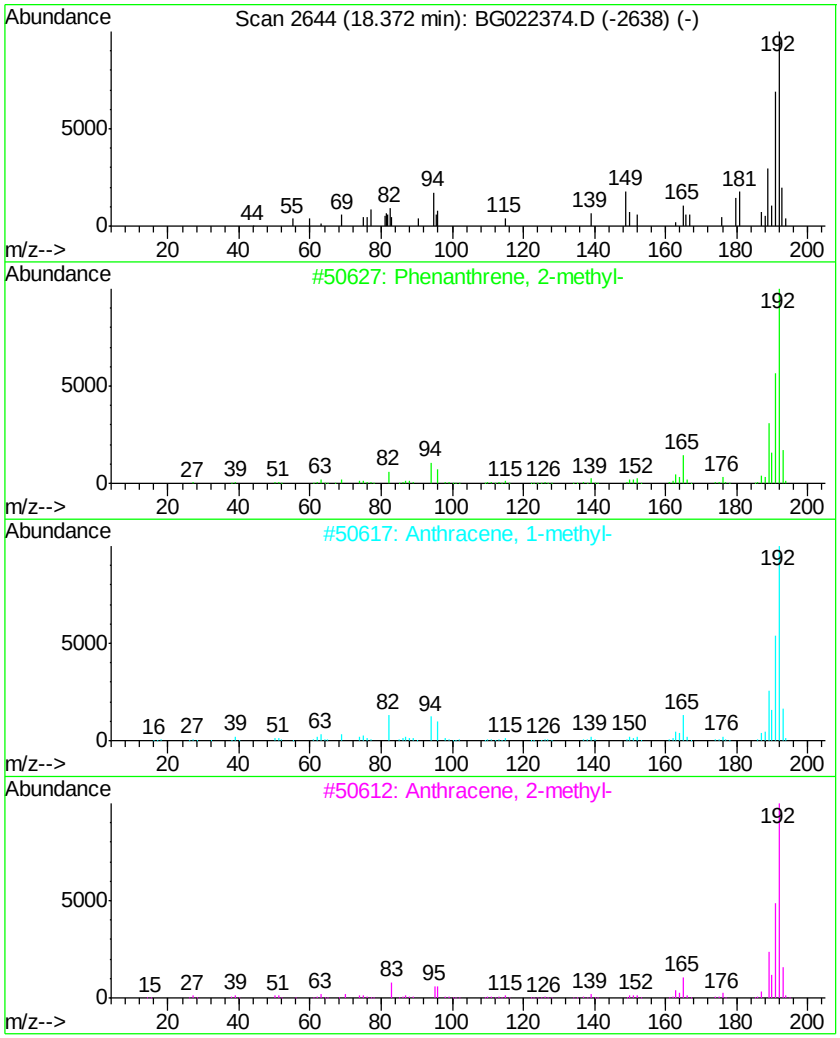
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

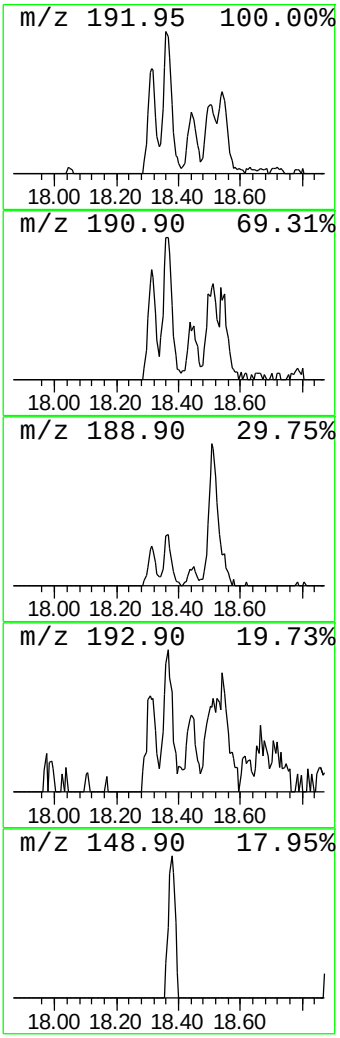
**********

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.37 | 2.31 ng | 46835 | Phenanthrene-d10 | 17.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 87 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 81 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 81 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 76 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 72 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

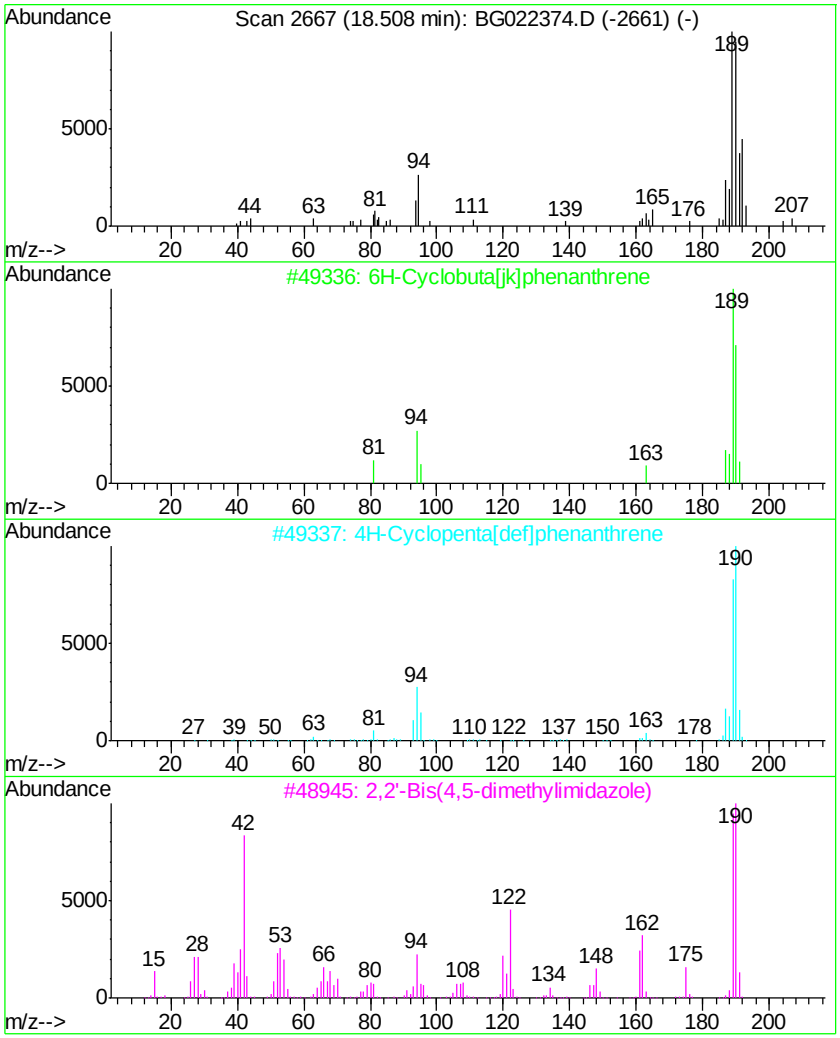
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

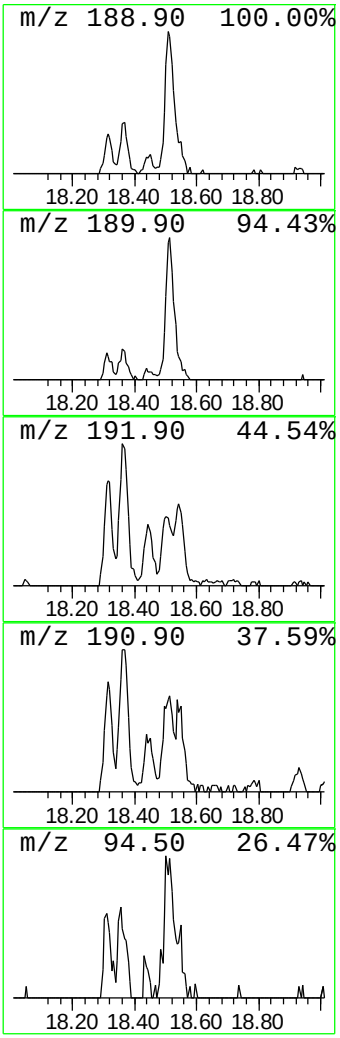
**********

Peak Number 6 6H-Cyclobuta[jk]phenanthrene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.51 | 3.06 ng | 62036 | Phenanthrene-d10 | 17.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 33 |
| 4 | 4-(4-Chlorophenyl)pyridine | 189 | C11H8ClN | 005957-96-0 | 16 |
| 5 | 4-Cyano-4-hydroxy-3-methyl-2-phe... | 216 | C13H16N2O | 1000216-11-7 | 14 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

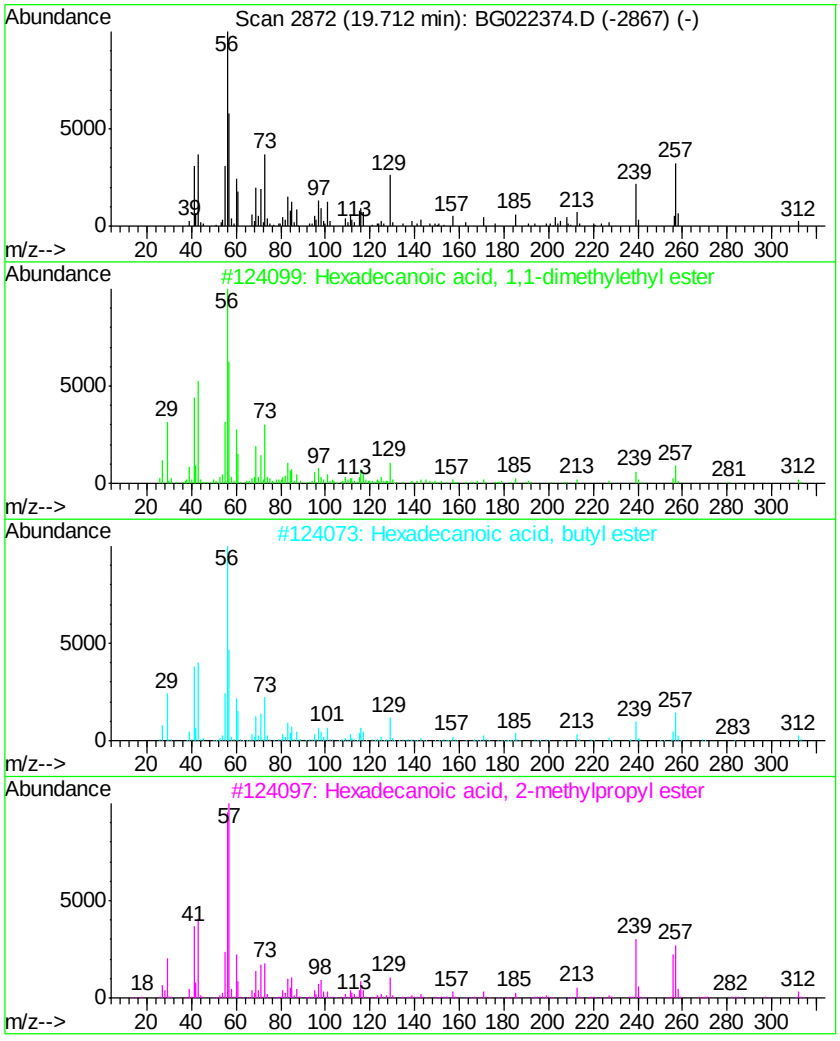
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

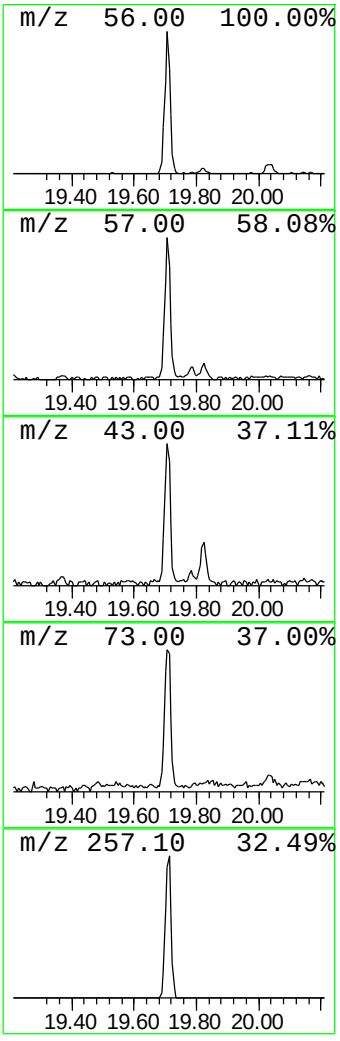
**********

Peak Number 8 Hexadecanoic acid, 1,1-dime... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.71 | 5.20 ng | 190349 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 97 |
| 2 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 96 |
| 3 | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 45 |
| 4 | Cyclopentanecarboxylic acid, 2-a... | 129 | C6H11NO2 | 037910-65-9 | 38 |
| 5 | Decane, 2,2,3-trimethyl- | 184 | C13H28 | 062338-09-4 | 35 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

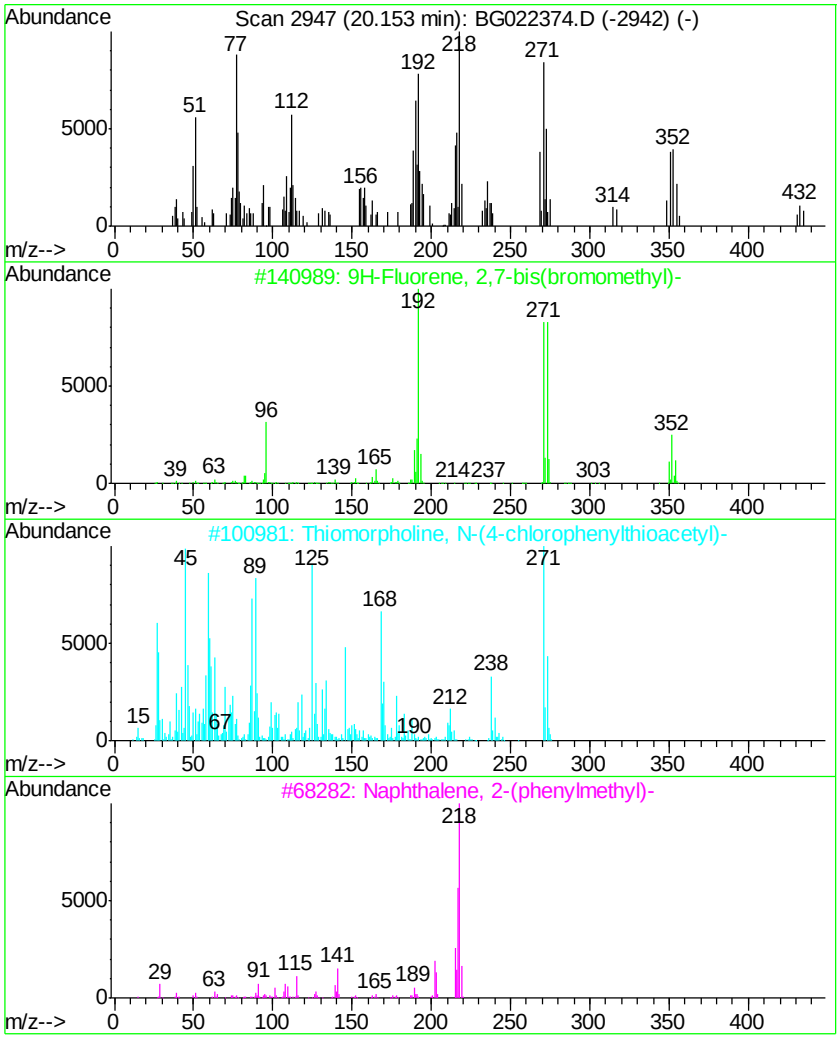
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

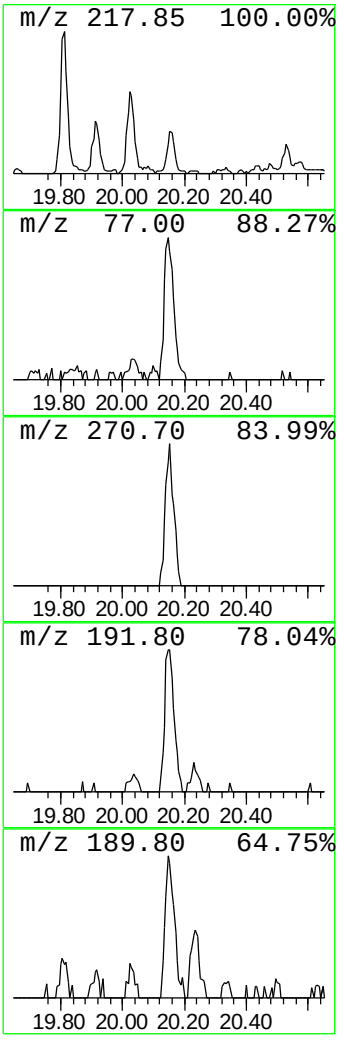
**********

Peak Number 9 unknown20.15 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.15 | 3.91 ng | 142986 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2,7-bis(bromomethyl)- | 350 | C15H12Br2 | 061765-34-2 | 22 |
| 2 | Thiomorpholine, N-(4-chlorophenyl... | 271 | C12H14ClNS2 | 1000286-87-3 | 11 |
| 3 | Naphthalene, 2-(phenylmethyl)- | 218 | C17H14 | 000613-59-2 | 9 |
| 4 | Cobalt, [(1,2,3,4-.eta.)-1,3-cyc... | 218 | C12H15Co | 070210-70-7 | 9 |
| 5 | Benzenamine, 4-isothiocyanato-N-... | 271 | C13H9N3O2S | 1000266-53-6 | 9 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

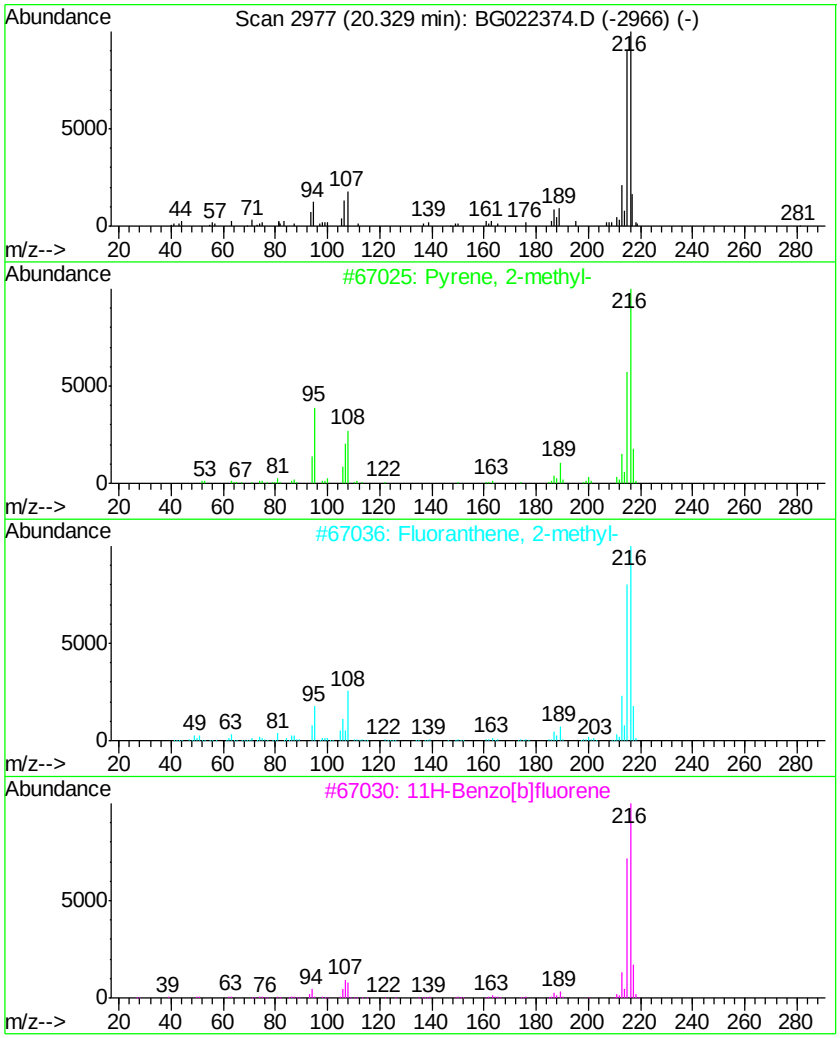
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

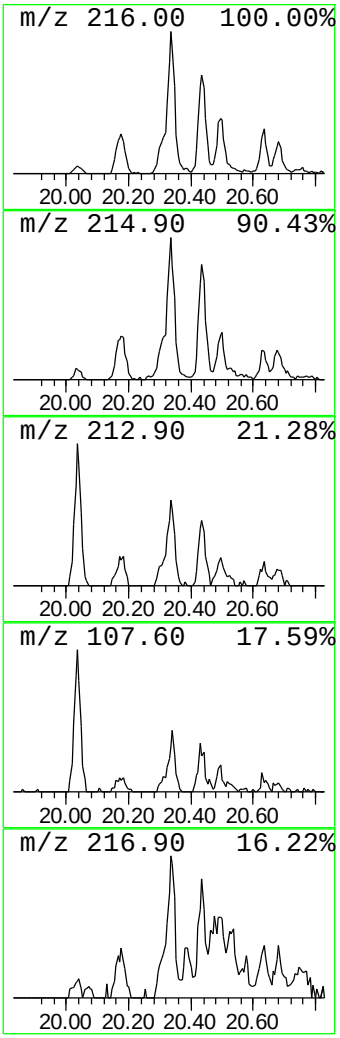
**********

Peak Number 10 Pyrene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.33 | 3.04 ng | 111370 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

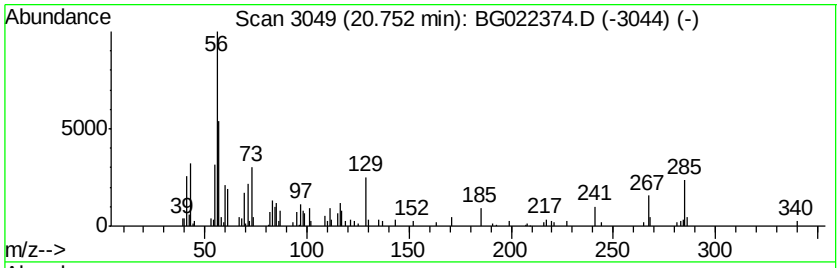
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

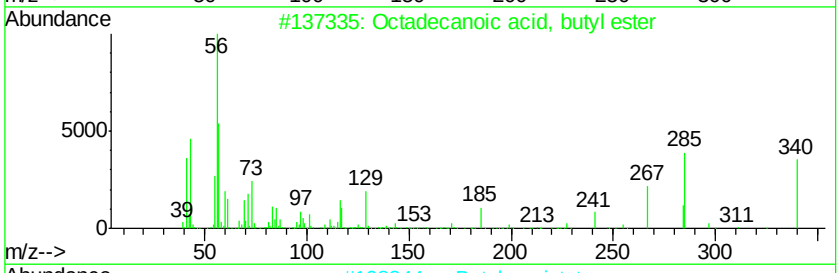
**********

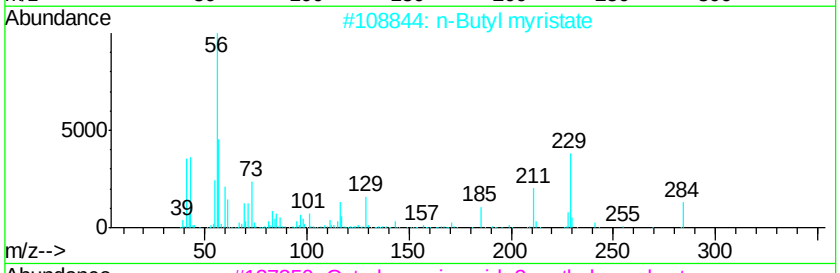
Peak Number 11 Octadecanoic acid, butyl ester Concentration Rank 10

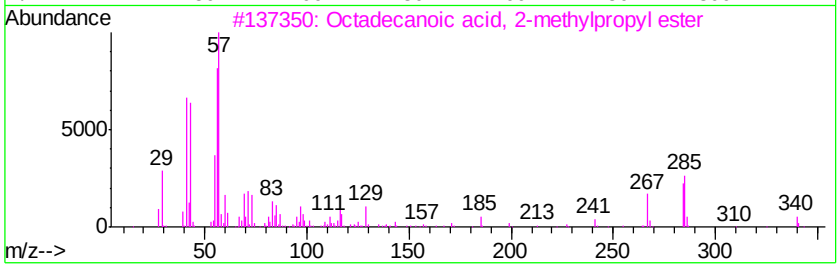
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.75 | 3.38 ng | 123871 | Chrysene-d12 | 21.71 |

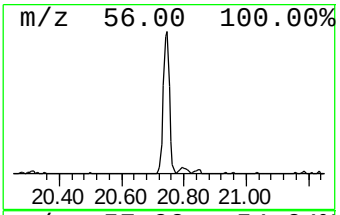
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid, butyl ester | 340 | C22H44O2 | 000123-95-5 | 90 |
| 2 | n-Butyl myristate | 284 | C18H36O2 | 000110-36-1 | 64 |
| 3 | Octadecanoic acid, 2-methylpropy... | 340 | C22H44O2 | 000646-13-9 | 43 |
| 4 | 1-Hexene, 2,5-dimethyl- | 112 | C8H16 | 006975-92-4 | 30 |
| 5 | 2-Methyl-n-1-tridecene | 196 | C14H28 | 018094-01-4 | 27 |

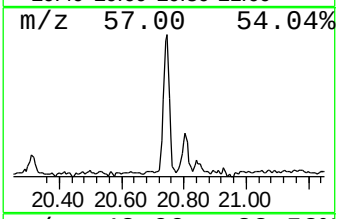


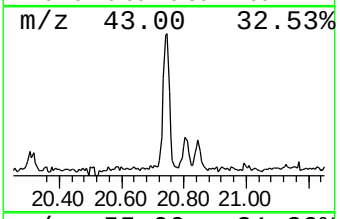



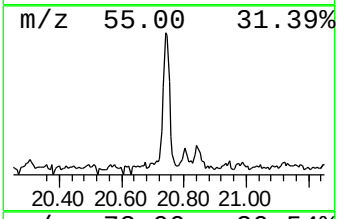



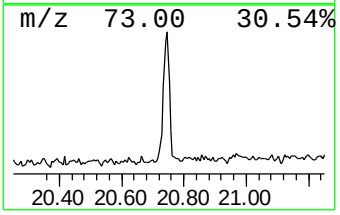



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

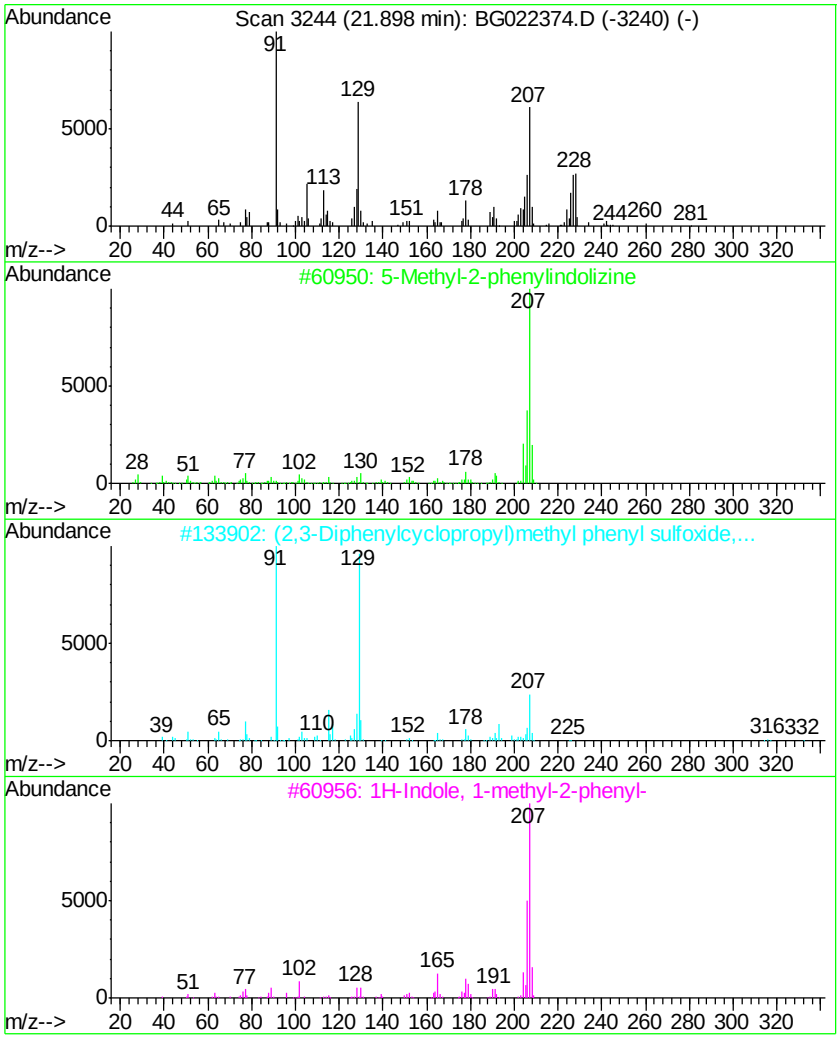
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

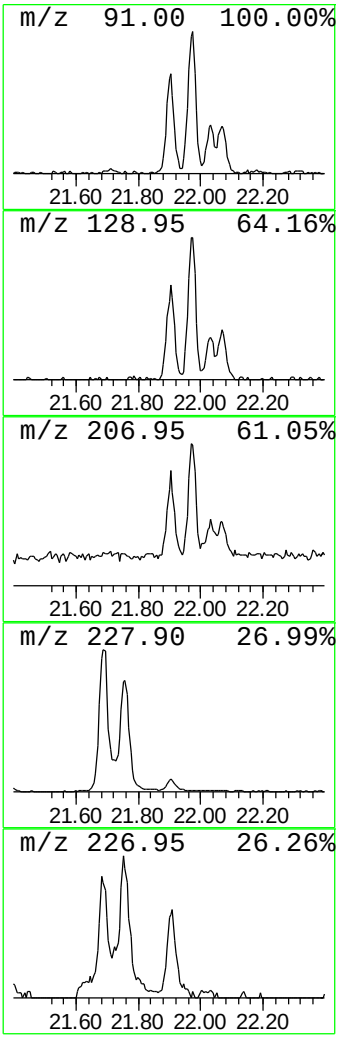
**********

Peak Number 13 5-Methyl-2-phenylindolizine Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.90 | 3.16 ng | 115681 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 86 |
| 2 | (2,3-Diphenylcyclopropyl)methyl ... | 332 | C22H20OS | 131758-71-9 | 59 |
| 3 | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 46 |
| 4 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 46 |
| 5 | 3-Methyl-2-phenylindole | 207 | C15H13N | 010257-92-8 | 30 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

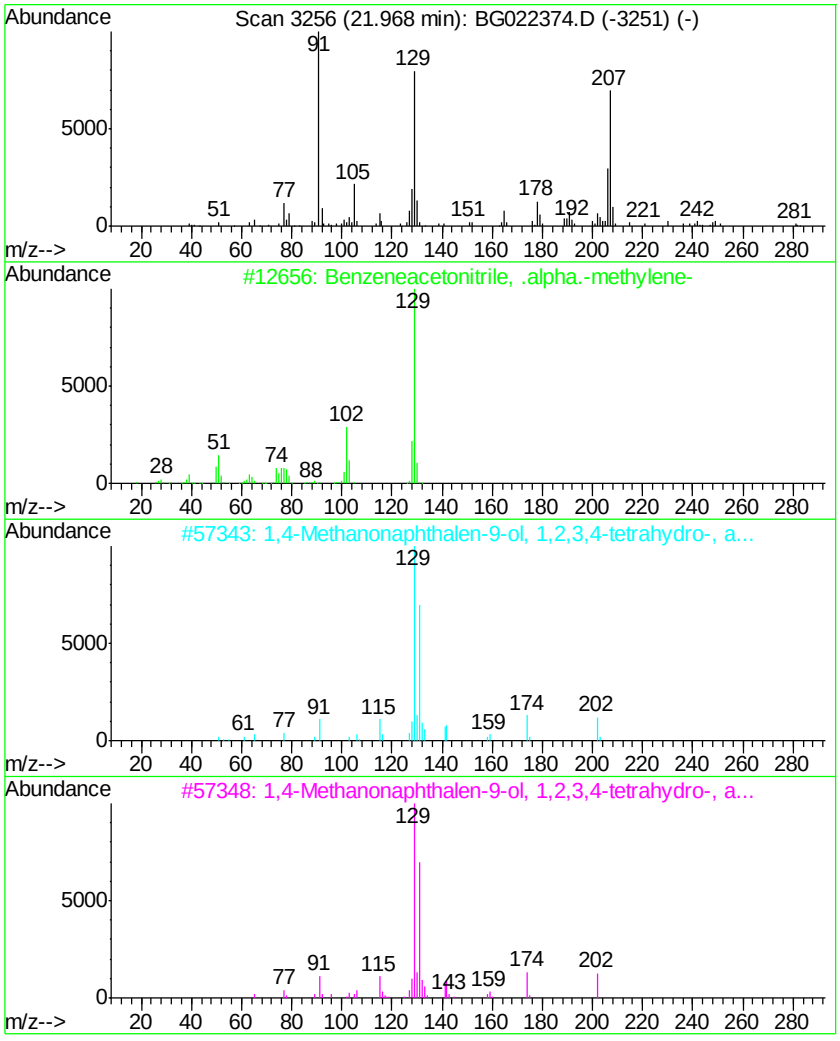
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

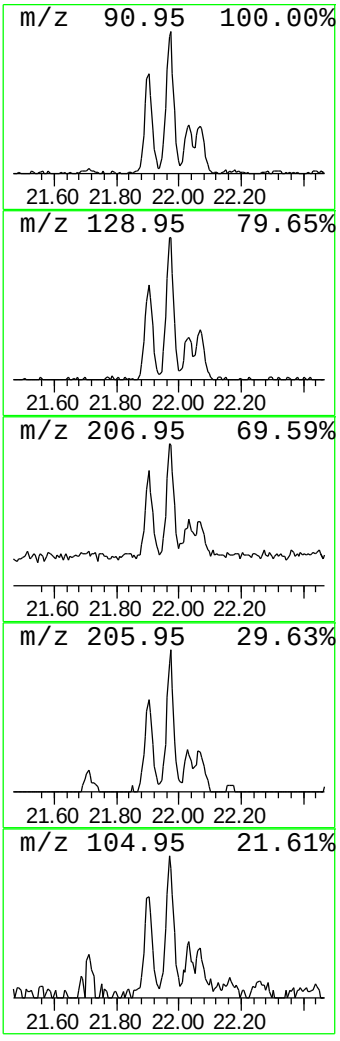
**********

Peak Number 14 unknown21.97 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.97 | 3.51 ng | 128476 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetonitrile, .alpha.-met... | 129 | C9H7N | 000495-10-3 | 35 |
| 2 | 1,4-Methanonaphthalen-9-ol, 1,2,... | 202 | C13H14O2 | 001207-27-8 | 27 |
| 3 | 1,4-Methanonaphthalen-9-ol, 1,2,... | 202 | C13H14O2 | 001207-28-9 | 27 |
| 4 | Isoquinoline | 129 | C9H7N | 000119-65-3 | 27 |
| 5 | 1-(2-Methyl-allyl)-1,2,3,4-tetra... | 202 | C14H18O | 1000192-52-9 | 25 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

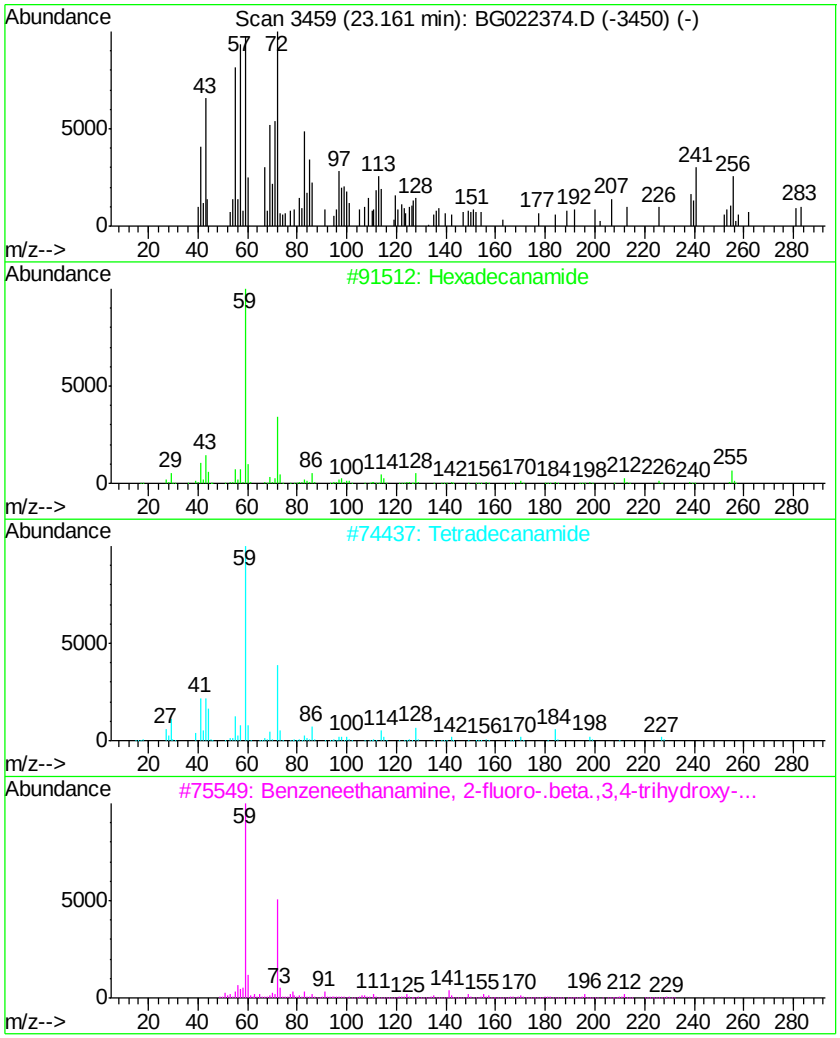
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

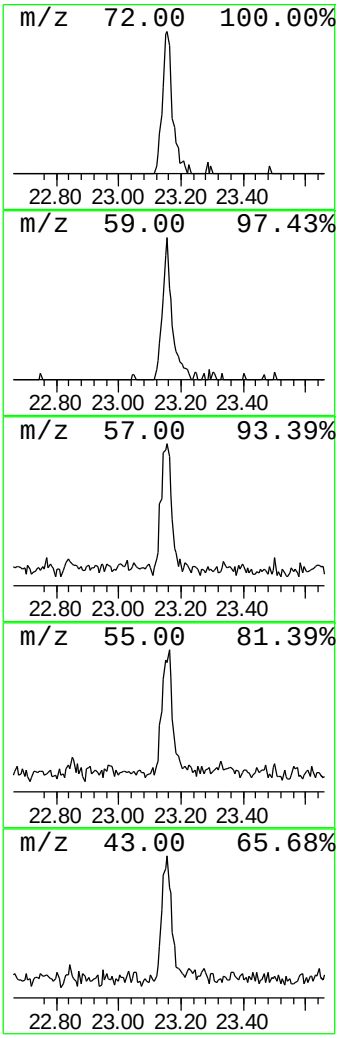
**********

Peak Number 15 unknown23.16 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.16 | 3.12 ng | 114108 | Chrysene-d12 | 21.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanamide | 255 | C16H33NO | 000629-54-9 | 49 |
| 2 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 47 |
| 3 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 43 |
| 4 | 3,4-Dimethyl-2-pentanone | 114 | C7H14O | 1000202-23-1 | 35 |
| 5 | Butanal, 2-ethyl- | 100 | C6H12O | 000097-96-1 | 27 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

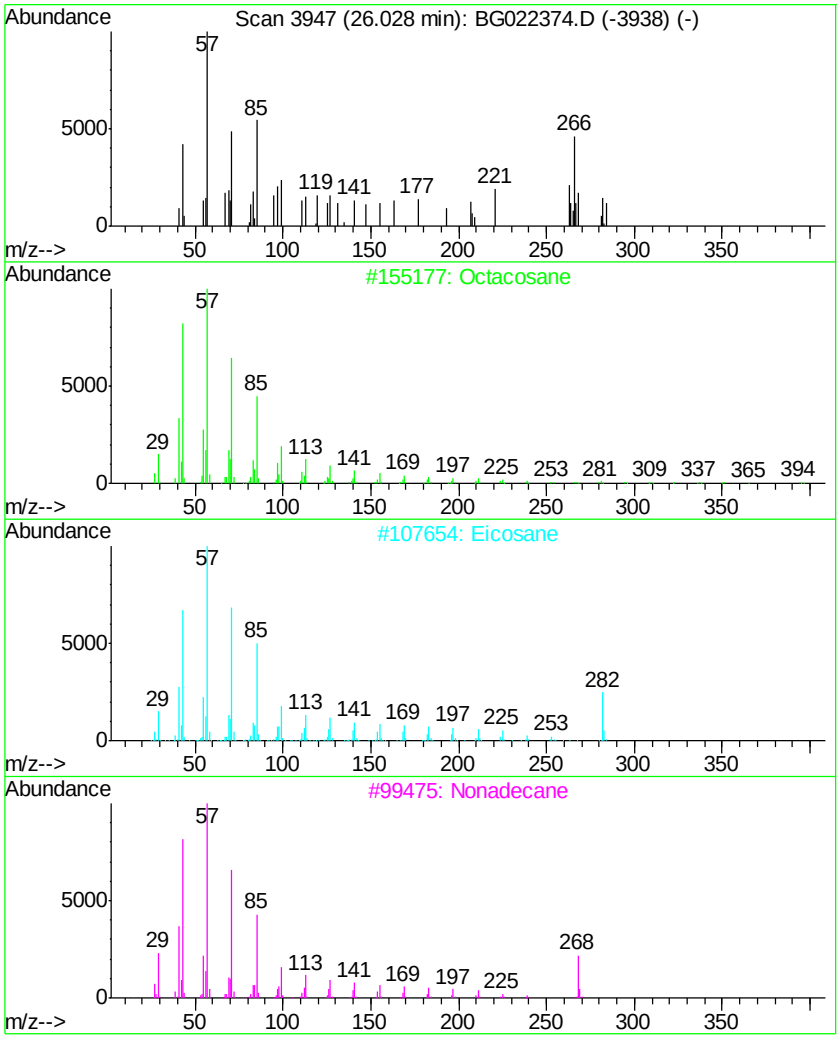
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

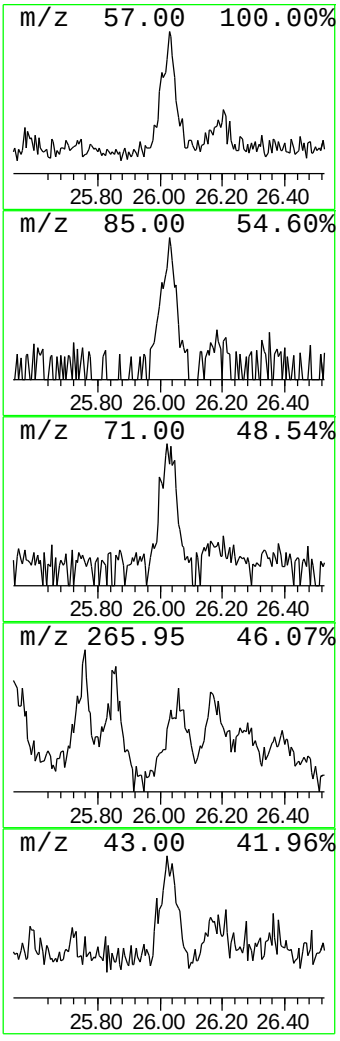
**********

Peak Number 17 unknown26.03 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.03 | 2.26 ng | 35814 | Perylene-d12 | 24.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 22 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 22 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 22 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 16 |
| 5 | Dotetracontane | 591 | C42H86 | 007098-20-6 | 16 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061616\
Data File : BG022374.D
Acq On : 16 Jun 2016 20:18
Operator : UM/SJ
Sample : H3467-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** HF-4-WC-3

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.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 |
| Propane, 2,2-dime... | 2.88 | 201.8 | ng | 1342900 | 1 | 8.06 | 133079 | 20.0 |
| 2-Pentanone, 4-hy... | 5.11 | 8.8 | ng | 58316 | 1 | 8.06 | 133079 | 20.0 |
| unknown7.60 | 7.60 | 86.8 | ng | 577282 | 1 | 8.06 | 133079 | 20.0 |
| Phenanthrene, 2-m... | 18.37 | 2.3 | ng | 46835 | 4 | 17.44 | 405348 | 20.0 |
| 6H-Cyclobuta[jk]p... | 18.51 | 3.1 | ng | 62036 | 4 | 17.44 | 405348 | 20.0 |
| Hexadecanoic acid... | 19.71 | 5.2 | ng | 190349 | 5 | 21.71 | 732004 | 20.0 |
| unknown20.15 | 20.15 | 3.9 | ng | 142986 | 5 | 21.71 | 732004 | 20.0 |
| Pyrene, 2-methyl- | 20.33 | 3.0 | ng | 111370 | 5 | 21.71 | 732004 | 20.0 |
| Octadecanoic acid... | 20.75 | 3.4 | ng | 123871 | 5 | 21.71 | 732004 | 20.0 |
| 5-Methyl-2-phenyl... | 21.90 | 3.2 | ng | 115681 | 5 | 21.71 | 732004 | 20.0 |
| unknown21.97 | 21.97 | 3.5 | ng | 128476 | 5 | 21.71 | 732004 | 20.0 |
| unknown23.16 | 23.16 | 3.1 | ng | 114108 | 5 | 21.71 | 732004 | 20.0 |
| unknown26.03 | 26.03 | 2.3 | ng | 35814 | 6 | 24.96 | 317602 | 20.0 |