LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

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-BG041316.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 | 3.097 | 38 | 44 | 64 | rVB | 2199853 | 3333139 | 100.00% | 20.544% |
| 2 | 5.289 | 411 | 417 | 427 | rVB | 117128 | 187106 | 5.61% | 1.153% |
| 3 | 5.764 | 491 | 498 | 508 | rBV | 577994 | 969066 | 29.07% | 5.973% |
| 4 | 7.374 | 763 | 772 | 782 | rBV | 615608 | 1096236 | 32.89% | 6.757% |
| 5 | 7.750 | 828 | 836 | 844 | rBV | 612570 | 1074619 | 32.24% | 6.624% |
| 6 | 8.215 | 909 | 915 | 926 | rBV | 137593 | 242843 | 7.29% | 1.497% |
| 7 | 8.544 | 963 | 971 | 982 | rVB | 458374 | 814543 | 24.44% | 5.021% |
| 8 | 9.384 | 1106 | 1114 | 1125 | rBV | 383672 | 702224 | 21.07% | 4.328% |
| 9 | 11.035 | 1388 | 1395 | 1401 | rBV | 191960 | 351054 | 10.53% | 2.164% |
| 10 | 13.450 | 1797 | 1806 | 1814 | rBV | 958950 | 1523288 | 45.70% | 9.389% |
| 11 | 14.266 | 1939 | 1945 | 1951 | rBV | 81760 | 125466 | 3.76% | 0.773% |
| 12 | 14.824 | 2033 | 2040 | 2048 | rVB2 | 266660 | 439352 | 13.18% | 2.708% |
| 13 | 15.635 | 2174 | 2178 | 2184 | rVB | 36530 | 50848 | 1.53% | 0.313% |
| 14 | 16.305 | 2286 | 2292 | 2302 | rBV | 651897 | 983457 | 29.51% | 6.062% |
| 15 | 16.493 | 2320 | 2324 | 2335 | rBV | 39594 | 74011 | 2.22% | 0.456% |
| 16 | 17.286 | 2455 | 2459 | 2465 | rBV | 29896 | 40379 | 1.21% | 0.249% |
| 17 | 17.562 | 2500 | 2506 | 2510 | rBV | 307203 | 487668 | 14.63% | 3.006% |
| 18 | 17.604 | 2510 | 2513 | 2519 | rVB | 111088 | 158742 | 4.76% | 0.978% |
| 19 | 17.692 | 2524 | 2528 | 2532 | rVV | 26237 | 40914 | 1.23% | 0.252% |
| 20 | 18.432 | 2649 | 2654 | 2658 | rBV2 | 30424 | 53791 | 1.61% | 0.332% |
| 21 | 18.479 | 2658 | 2662 | 2668 | rVB | 34548 | 58580 | 1.76% | 0.361% |
| 22 | 18.632 | 2682 | 2688 | 2690 | rBV2 | 36615 | 60720 | 1.82% | 0.374% |
| 23 | 19.331 | 2804 | 2807 | 2811 | rBV2 | 33576 | 46502 | 1.40% | 0.287% |
| 24 | 19.595 | 2848 | 2852 | 2857 | rBV | 231398 | 328626 | 9.86% | 2.026% |
| 25 | 19.824 | 2887 | 2891 | 2893 | rBV | 53029 | 63425 | 1.90% | 0.391% |
| 26 | 19.960 | 2910 | 2914 | 2918 | rVB | 204288 | 274554 | 8.24% | 1.692% |
| 27 | 20.148 | 2940 | 2946 | 2951 | rVB | 1369809 | 1771333 | 53.14% | 10.918% |
| 28 | 21.440 | 3163 | 3166 | 3172 | rVB2 | 104965 | 144754 | 4.34% | 0.892% |
| 29 | 21.834 | 3226 | 3233 | 3238 | rBV2 | 348261 | 726803 | 21.81% | 4.480% |

Sum of corrected areas: 16224043

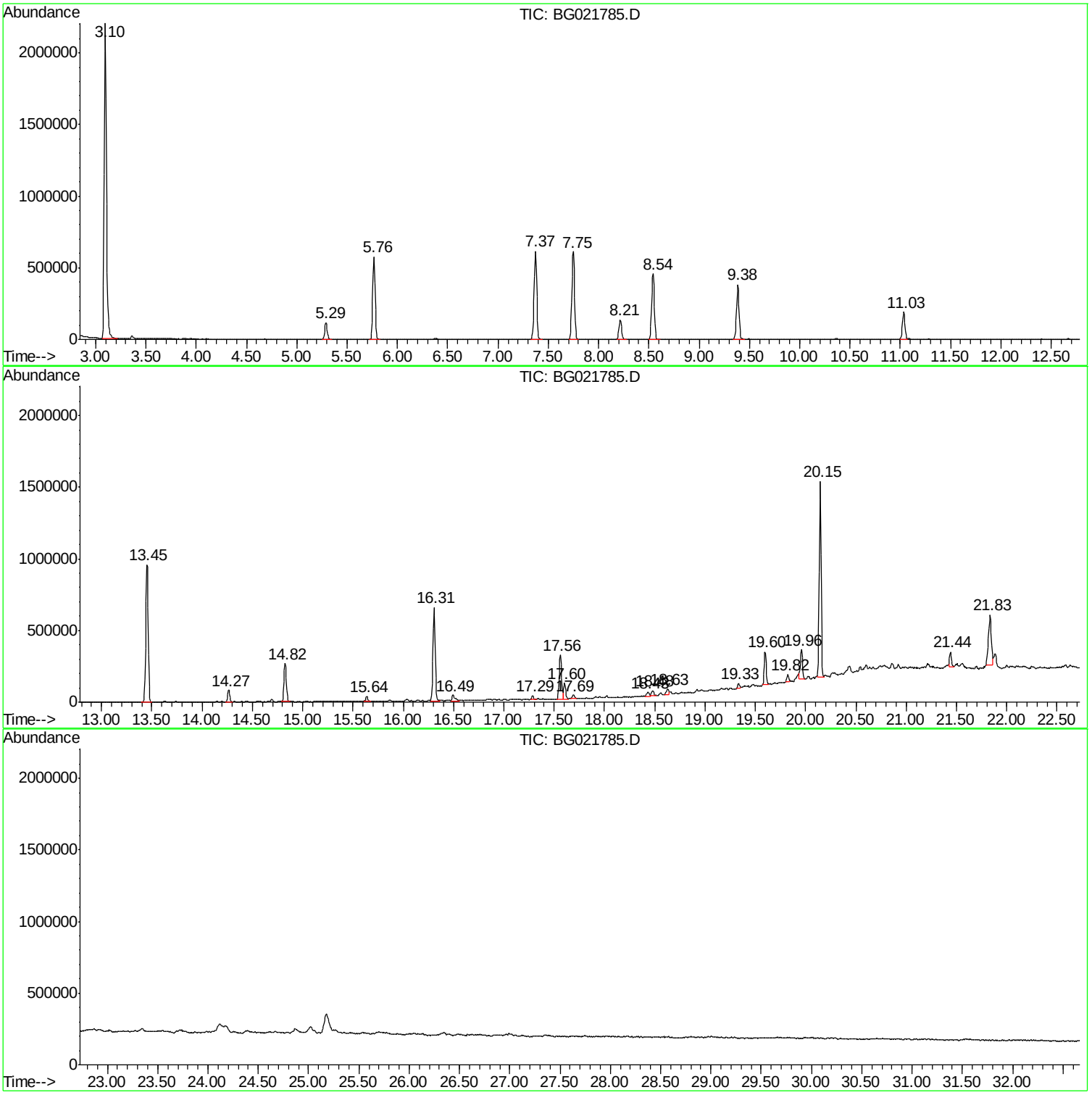
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
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**Instrument :** BNA_G
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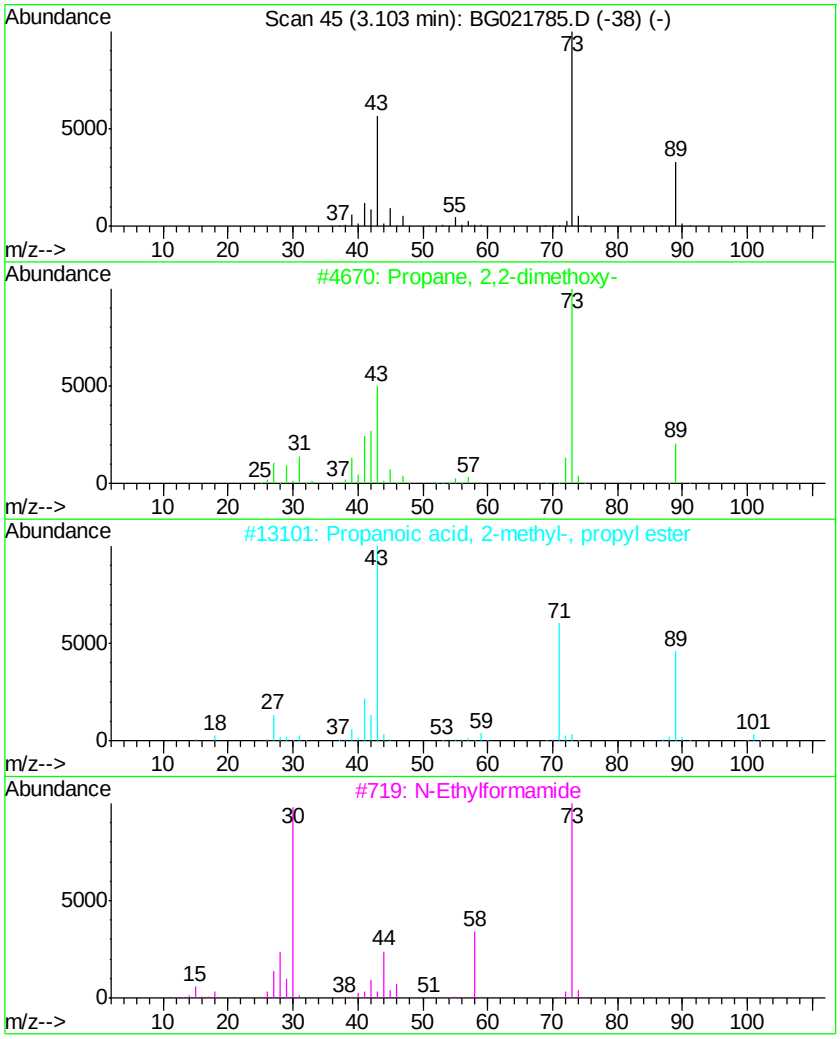
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

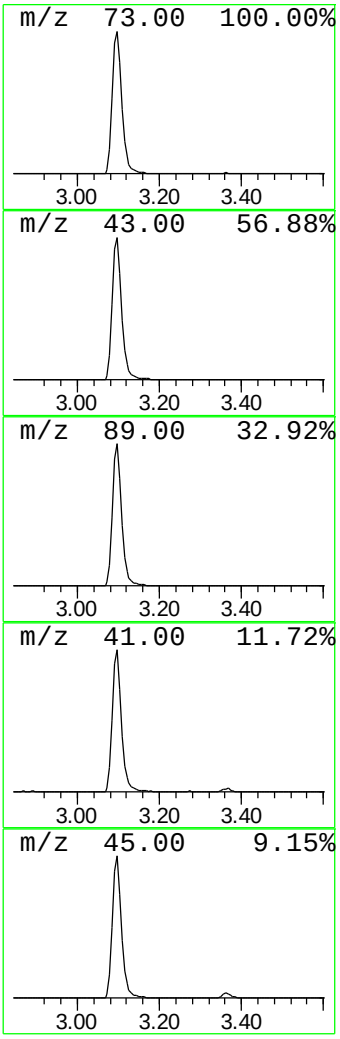
**********

Peak Number 1 unknown3.10 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.10 | 274.51 ng | 3333140 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 40 |
| 2 | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 23 |
| 3 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 4 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 9 |
| 5 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |



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Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

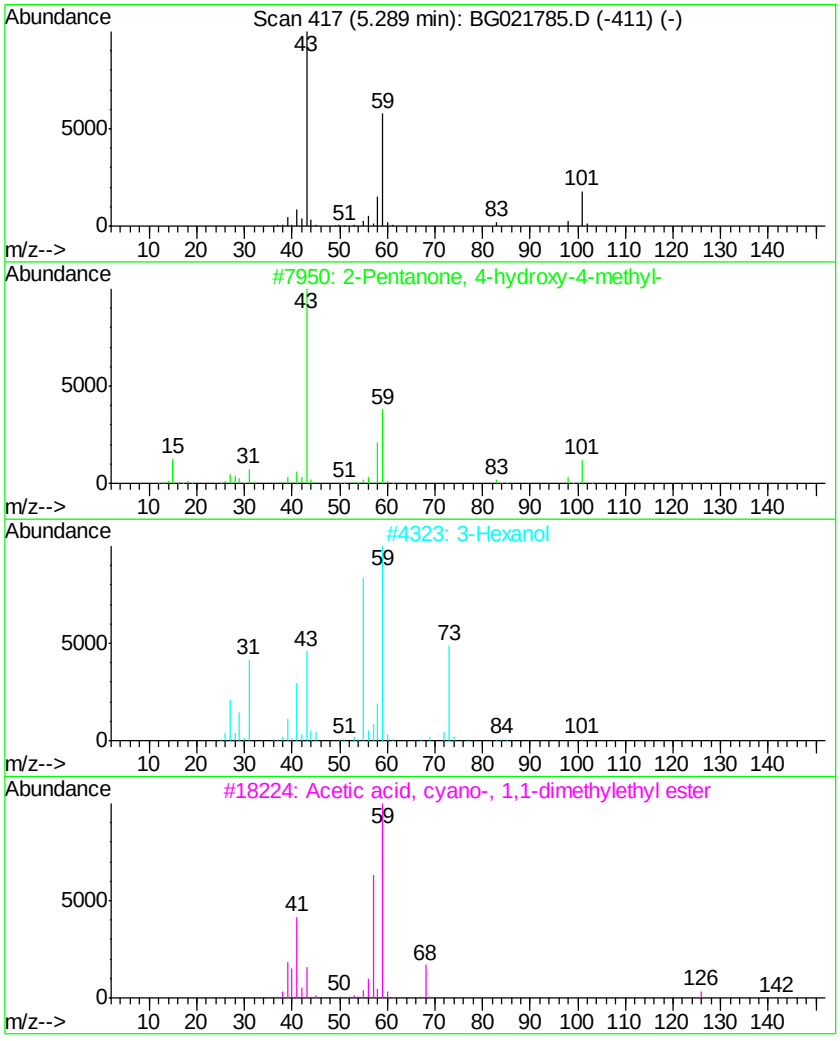
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

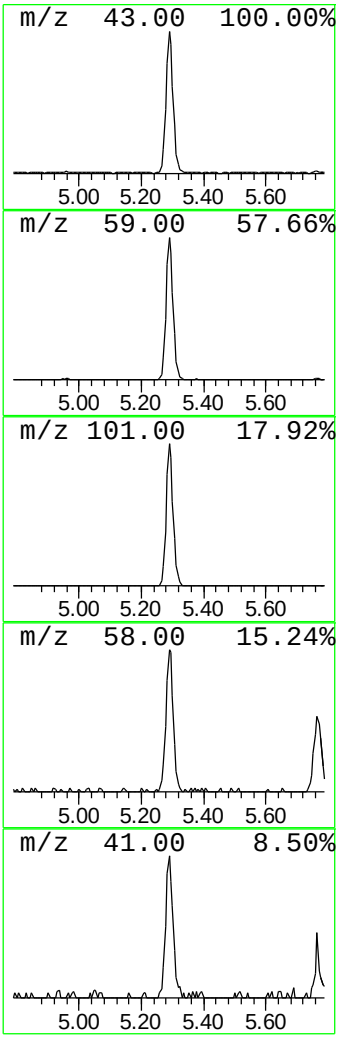
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.29 | 15.41 ng | 187106 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | 3-Hexanol | 102 | C6H14O | 000623-37-0 | 33 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 16 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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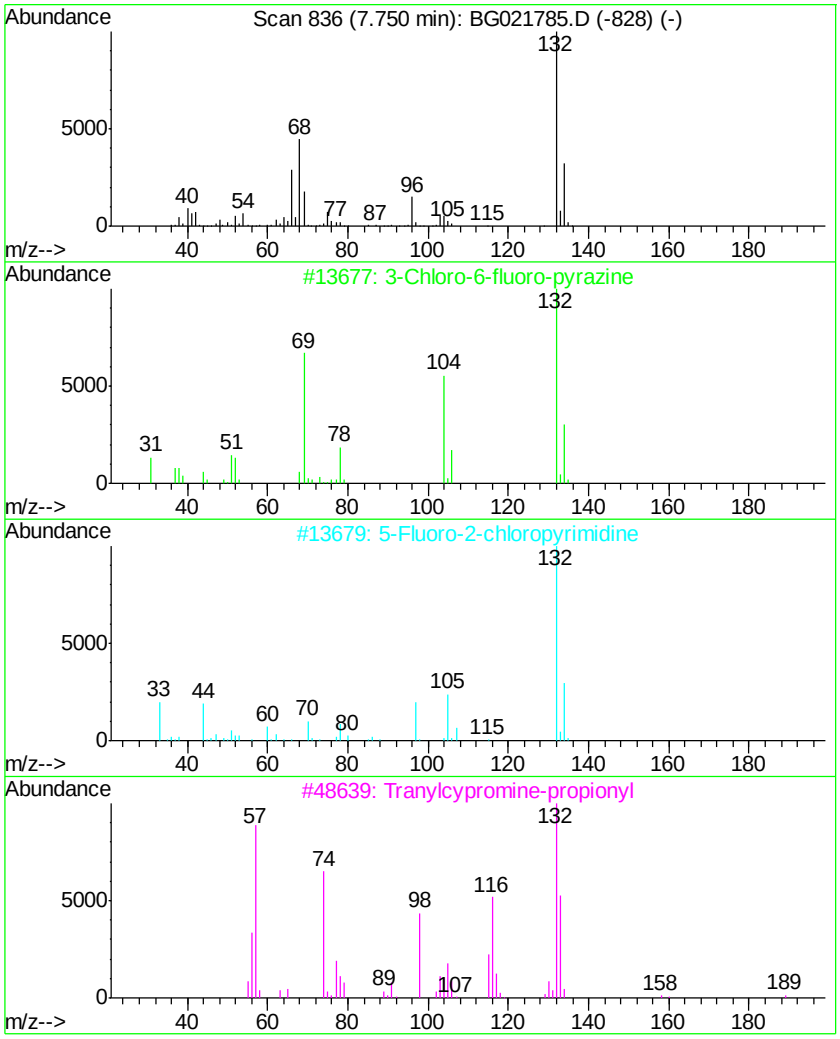
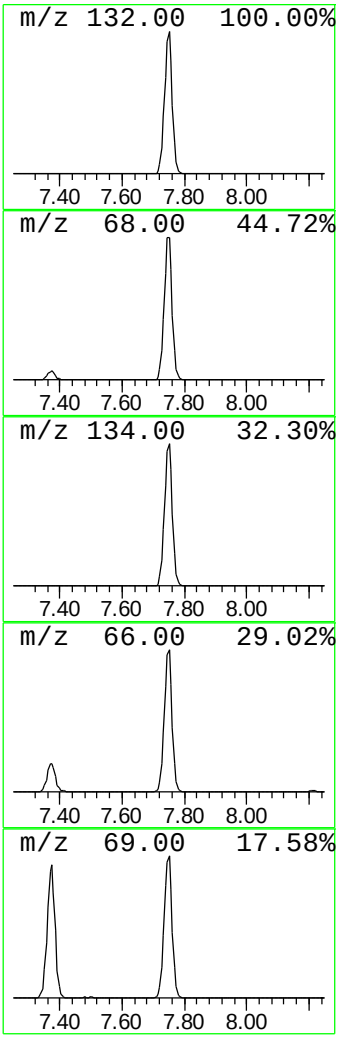
Peak Number 3 unknown7.75 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.75 | 88.50 ng | 1074620 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

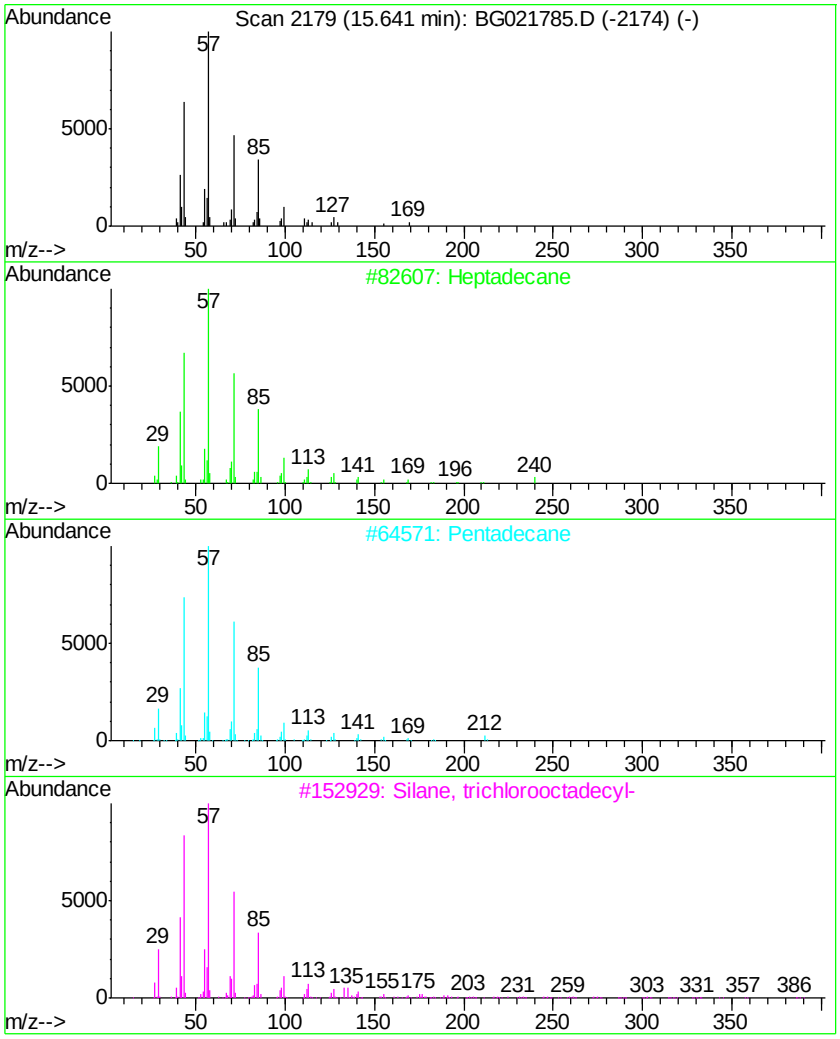
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

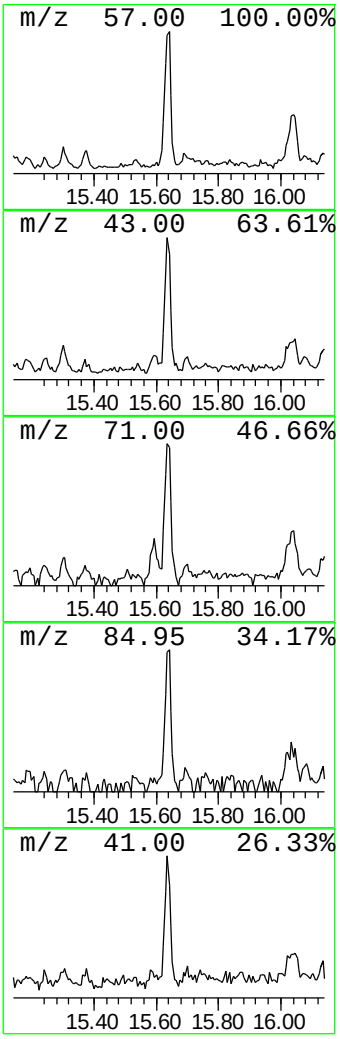
**********

Peak Number 5 Heptadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.64 | 2.31 ng | 50848 | Acenaphthene-d10 | 14.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 3 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 86 |
| 4 | Dodecane | 170 | C12H26 | 000112-40-3 | 83 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



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Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

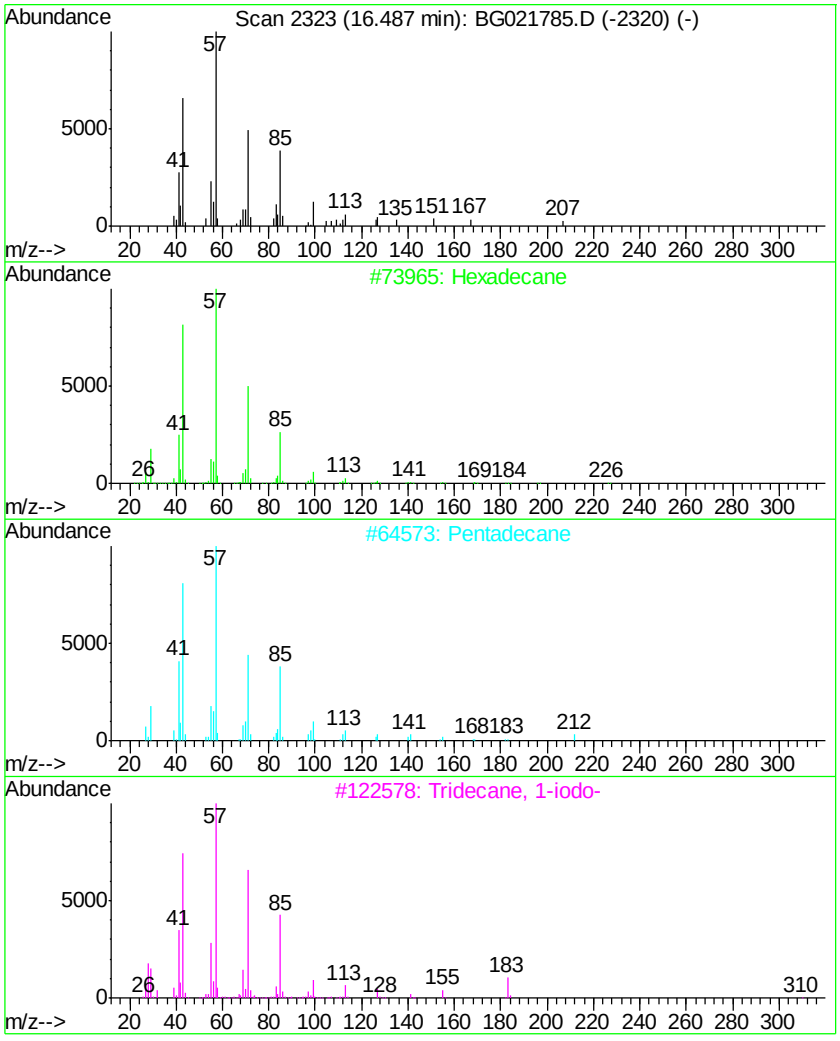
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

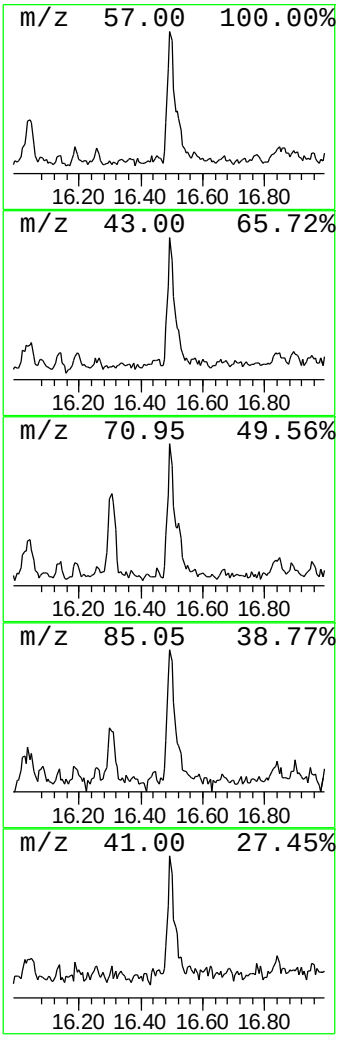
**********

Peak Number 6 Hexadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.49 | 3.04 ng | 74011 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 78 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 78 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 78 |



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Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

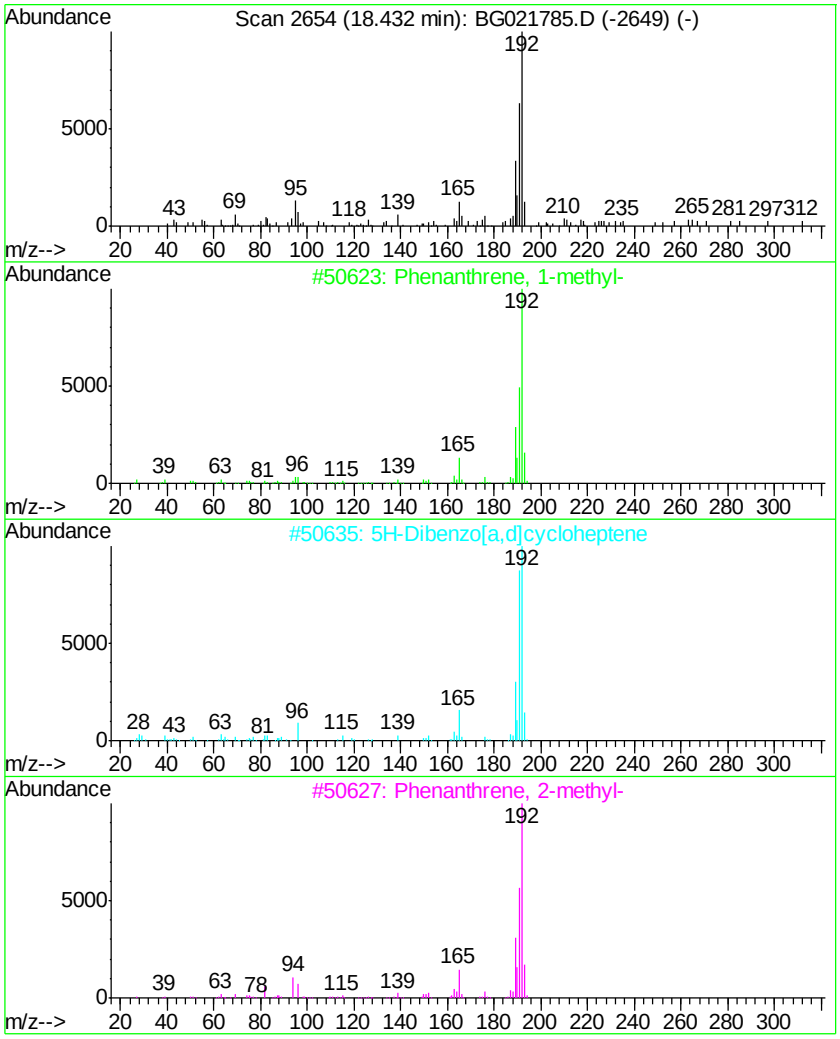
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

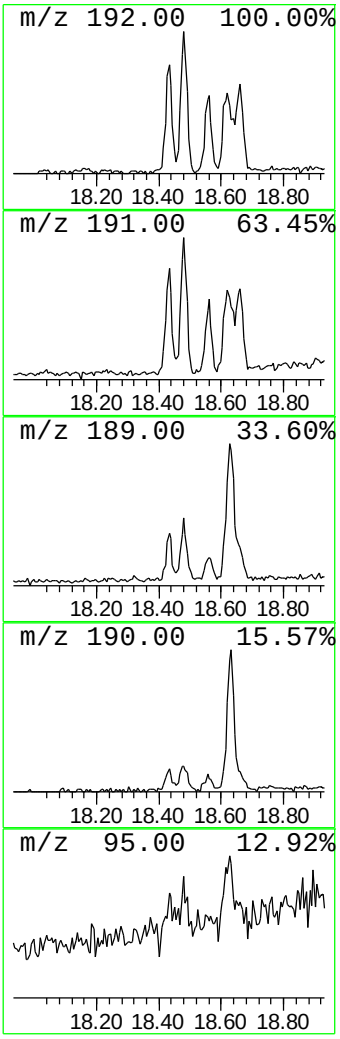
**********

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.43 | 2.21 ng | 53791 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 81 |
| 2 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 81 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 81 |
| 4 | Naphtho[1,2-b]norbornadiene | 192 | C15H12 | 1000210-14-8 | 76 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 72 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

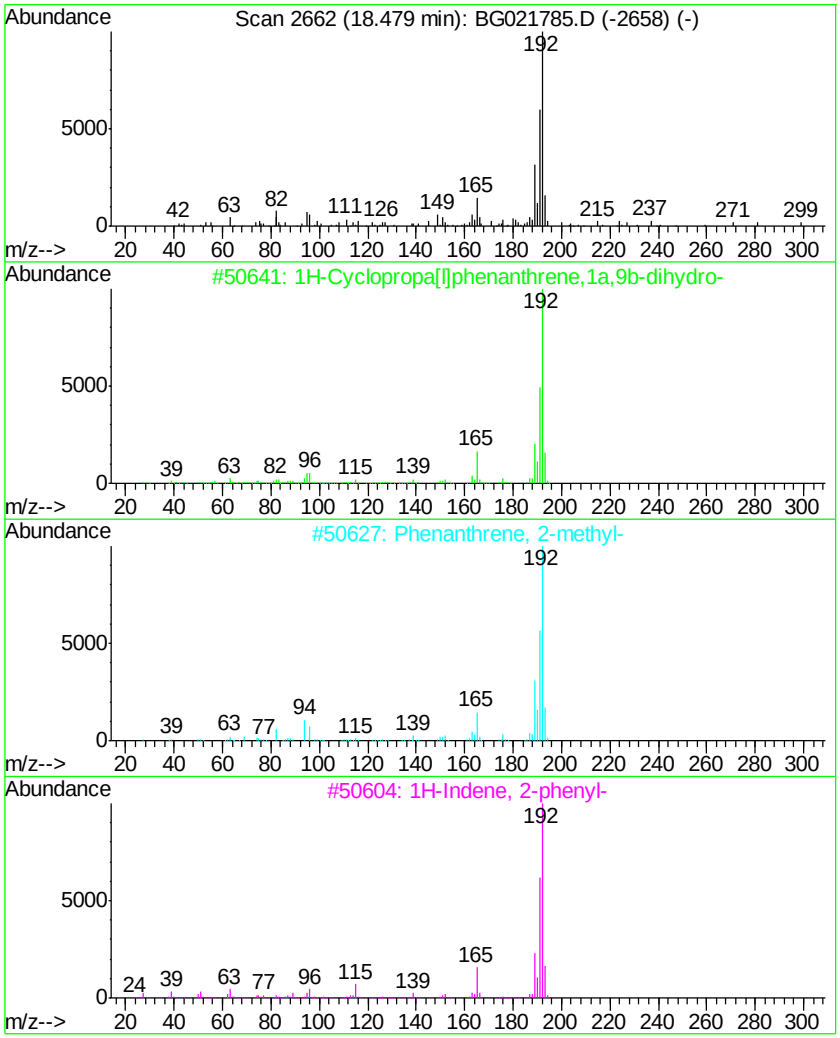
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

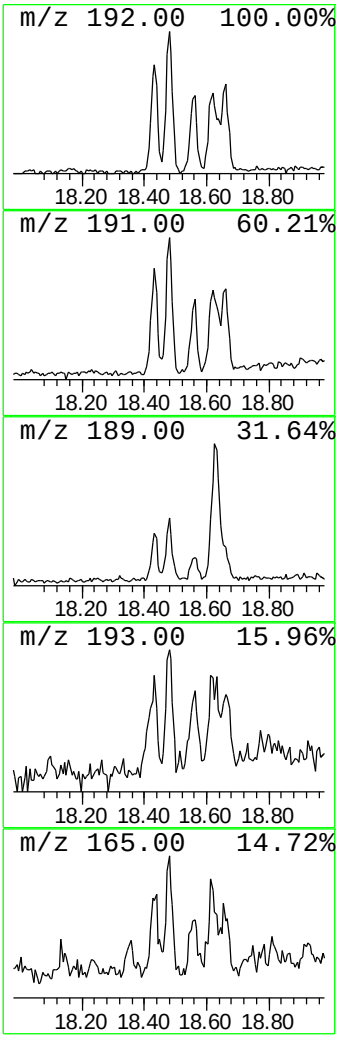
**********

Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.48 | 2.40 ng | 58580 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 94 |
| 4 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 93 |
| 5 | 1H-Indene, 3-phenyl- | 192 | C15H12 | 001961-97-3 | 93 |



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Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

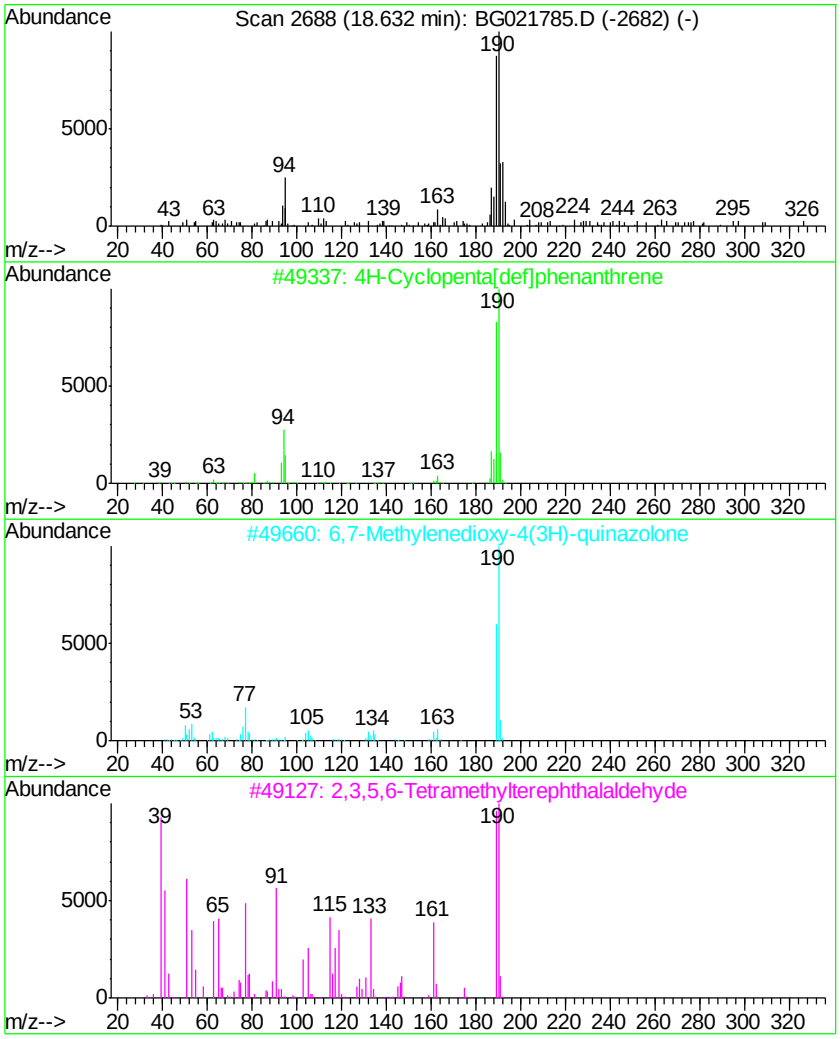
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

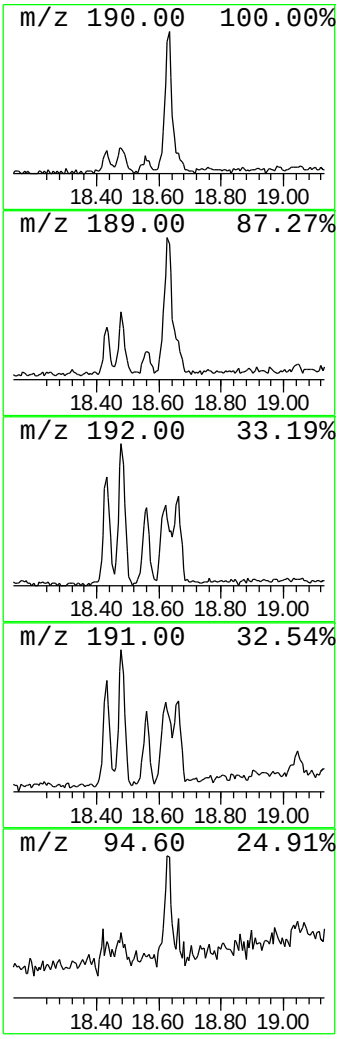
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.63 | 2.49 ng | 60720 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 2 | 6,7-Methylenedioxy-4(3H)-quinazo... | 190 | C9H6N2O3 | 028310-11-4 | 47 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47 |
| 4 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 40 |
| 5 | Benzimidazol-2(3H)-one, 5-formyl... | 190 | C10H10N2O2 | 055241-49-1 | 28 |



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Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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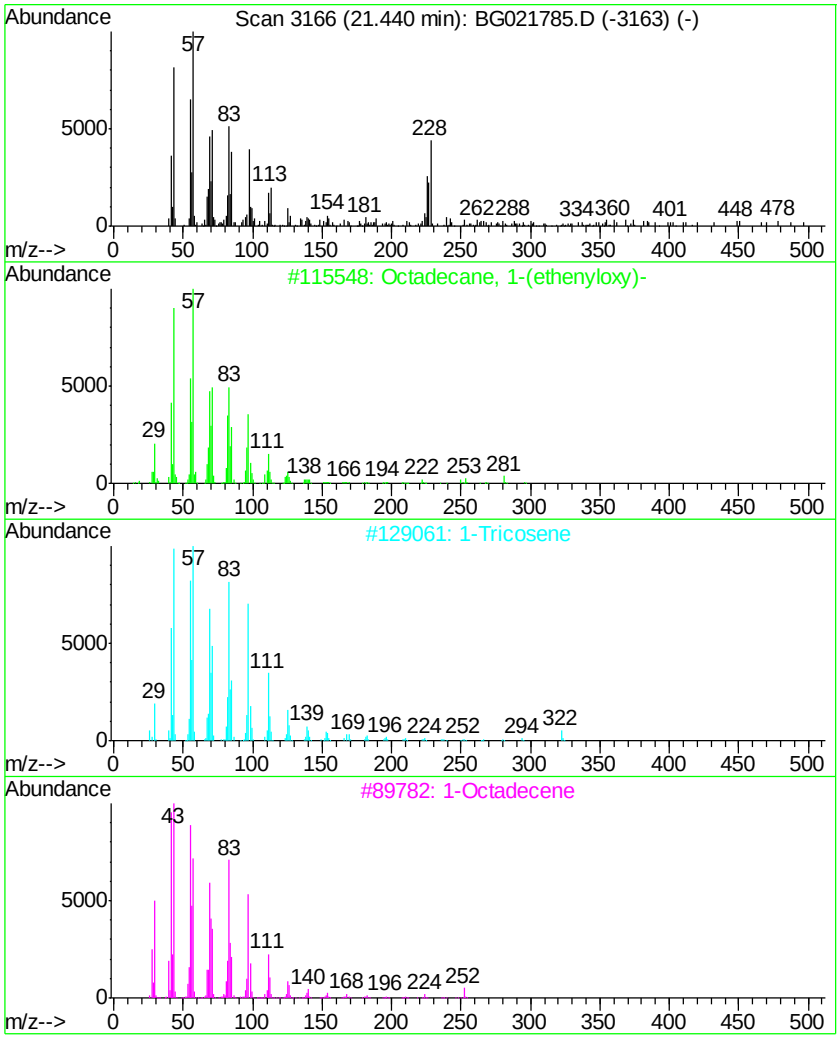
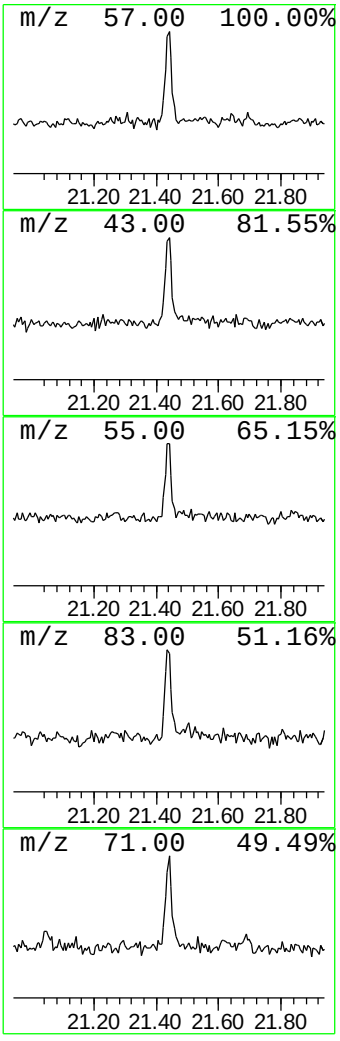
**********

Peak Number 10 Octadecane, 1-(ethenyloxy)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.44 | 3.98 ng | 144754 | Chrysene-d12 | 21.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane, 1-(ethenyloxy)- | 296 | C20H40O | 000930-02-9 | 86 |
| 2 | 1-Tricosene | 322 | C23H46 | 018835-32-0 | 83 |
| 3 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 83 |
| 4 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 50 |
| 5 | Cyclotriacontane | 420 | C30H60 | 000297-35-8 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG042116\
Data File : BG021785.D
Acq On : 20 Apr 2016 15:05
Operator : UM/SJ
Sample : H2589-15
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** WPG-B22(0-7.5)-C

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.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 |
| unknown3.10 | 3.10 | 274.5 | ng | 3333140 | 1 | 8.21 | 242843 | 20.0 |
| 2-Pentanone, 4-hy... | 5.29 | 15.4 | ng | 187106 | 1 | 8.21 | 242843 | 20.0 |
| unknown7.75 | 7.75 | 88.5 | ng | 1074620 | 1 | 8.21 | 242843 | 20.0 |
| Heptadecane | 15.64 | 2.3 | ng | 50848 | 3 | 14.82 | 439352 | 20.0 |
| Hexadecane | 16.49 | 3.0 | ng | 74011 | 4 | 17.56 | 487668 | 20.0 |
| Phenanthrene, 1-m... | 18.43 | 2.2 | ng | 53791 | 4 | 17.56 | 487668 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.48 | 2.4 | ng | 58580 | 4 | 17.56 | 487668 | 20.0 |
| 4H-Cyclopenta[def... | 18.63 | 2.5 | ng | 60720 | 4 | 17.56 | 487668 | 20.0 |
| Octadecane, 1-(et... | 21.44 | 4.0 | ng | 144754 | 5 | 21.83 | 726803 | 20.0 |