LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

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-BG032515.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 | 2.795 | 13 | 18 | 26 | rBV | 492272 | 559805 | 2.24% | 0.695% |
| 2 | 3.271 | 97 | 99 | 101 | rVB | 427810 | 303272 | 1.21% | 0.377% |
| 3 | 4.199 | 154 | 257 | 259 | rBV | 1124847 | 17379139 | 69.42% | 21.579% |
| 4 | 4.710 | 264 | 344 | 346 | rBV | 1678234 | 25033552 | 100.00% | 31.083% |
| 5 | 4.992 | 388 | 392 | 400 | rVV | 174647 | 263472 | 1.05% | 0.327% |
| 6 | 5.110 | 400 | 412 | 424 | rVB | 160470 | 388489 | 1.55% | 0.482% |
| 7 | 5.392 | 454 | 460 | 465 | rVV | 786537 | 1197571 | 4.78% | 1.487% |
| 8 | 5.738 | 465 | 519 | 522 | rVB | 655352 | 6788321 | 27.12% | 8.429% |
| 9 | 6.338 | 607 | 621 | 630 | rBV | 118241 | 310515 | 1.24% | 0.386% |
| 10 | 6.978 | 699 | 730 | 735 | rBV | 1081161 | 3026122 | 12.09% | 3.757% |
| 11 | 7.336 | 786 | 791 | 796 | rBV | 844038 | 1504066 | 6.01% | 1.868% |
| 12 | 7.794 | 860 | 869 | 876 | rBV | 194283 | 307529 | 1.23% | 0.382% |
| 13 | 7.929 | 876 | 892 | 899 | rBV2 | 725029 | 1480652 | 5.91% | 1.838% |
| 14 | 8.112 | 916 | 923 | 930 | rVB | 577004 | 933031 | 3.73% | 1.158% |
| 15 | 8.470 | 970 | 984 | 992 | rBV | 136367 | 332328 | 1.33% | 0.413% |
| 16 | 8.552 | 992 | 998 | 1012 | rVB | 238497 | 395806 | 1.58% | 0.491% |
| 17 | 8.946 | 1056 | 1065 | 1074 | rBV | 443220 | 745358 | 2.98% | 0.925% |
| 18 | 9.956 | 1209 | 1237 | 1241 | rBV | 382589 | 1721895 | 6.88% | 2.138% |
| 19 | 10.079 | 1256 | 1258 | 1272 | rVB2 | 692513 | 692128 | 2.76% | 0.859% |
| 20 | 10.579 | 1335 | 1343 | 1349 | rBV | 290069 | 480208 | 1.92% | 0.596% |
| 21 | 10.643 | 1349 | 1354 | 1362 | rVB | 159945 | 252177 | 1.01% | 0.313% |
| 22 | 11.155 | 1432 | 1441 | 1452 | rBV | 138761 | 308856 | 1.23% | 0.383% |
| 23 | 11.407 | 1475 | 1484 | 1503 | rBV2 | 144146 | 305147 | 1.22% | 0.379% |
| 24 | 12.318 | 1629 | 1639 | 1645 | rBV | 195484 | 314903 | 1.26% | 0.391% |
| 25 | 12.418 | 1645 | 1656 | 1670 | rBV | 311025 | 698008 | 2.79% | 0.867% |
| 26 | 12.723 | 1699 | 1708 | 1717 | rBV | 217557 | 423363 | 1.69% | 0.526% |
| 27 | 13.040 | 1753 | 1762 | 1772 | rVB | 1191037 | 1749648 | 6.99% | 2.172% |
| 28 | 14.415 | 1983 | 1996 | 2004 | rBV2 | 418211 | 664570 | 2.65% | 0.825% |
| 29 | 15.901 | 2242 | 2249 | 2255 | rBV | 997679 | 1390368 | 5.55% | 1.726% |
| 30 | 16.559 | 2354 | 2361 | 2369 | rBV2 | 195504 | 299650 | 1.20% | 0.372% |
| 31 | 17.152 | 2458 | 2462 | 2468 | rVB | 587511 | 804896 | 3.22% | 0.999% |
| 32 | 17.470 | 2508 | 2516 | 2523 | rBV | 1864737 | 2778691 | 11.10% | 3.450% |
| 33 | 18.045 | 2609 | 2614 | 2622 | rBV | 309880 | 486214 | 1.94% | 0.604% |
| 34 | 18.116 | 2622 | 2626 | 2631 | rVB | 339830 | 405429 | 1.62% | 0.503% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

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-BG032515.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.772 | 2903 | 2908 | 2915 | rBV | 2101978 | 2614615 | 10.44% | 3.246% |
| 36 | 21.029 | 3118 | 3122 | 3134 | rBV | 285892 | 378736 | 1.51% | 0.470% |
| 37 | 21.323 | 3166 | 3172 | 3181 | rBV | 753860 | 939921 | 3.75% | 1.167% |
| 38 | 23.608 | 3553 | 3561 | 3571 | rBV | 452483 | 888719 | 3.55% | 1.103% |
| 39 | 26.169 | 3987 | 3997 | 4009 | rBV2 | 361427 | 991652 | 3.96% | 1.231% |

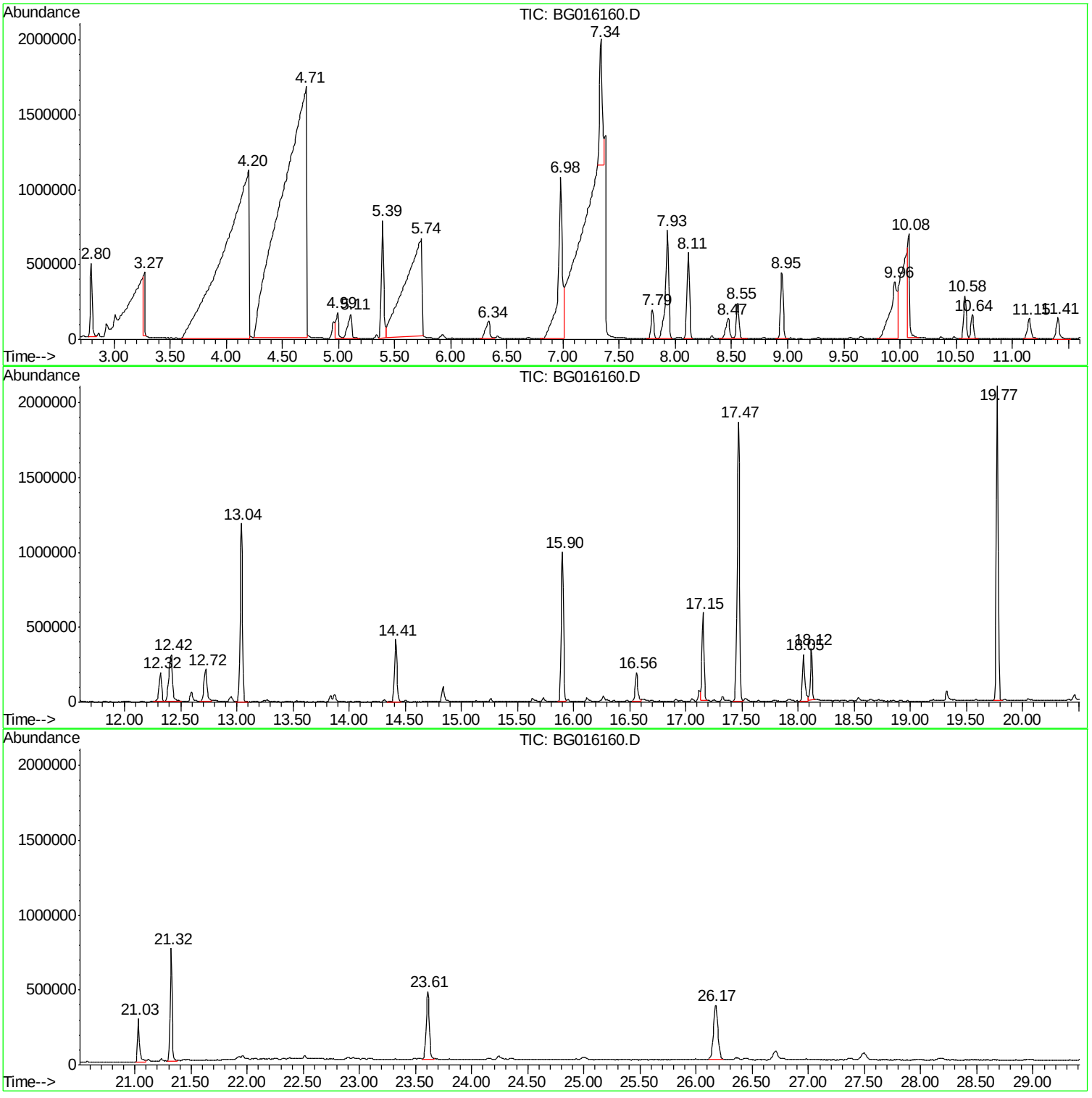
Sum of corrected areas: 80538822

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.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\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

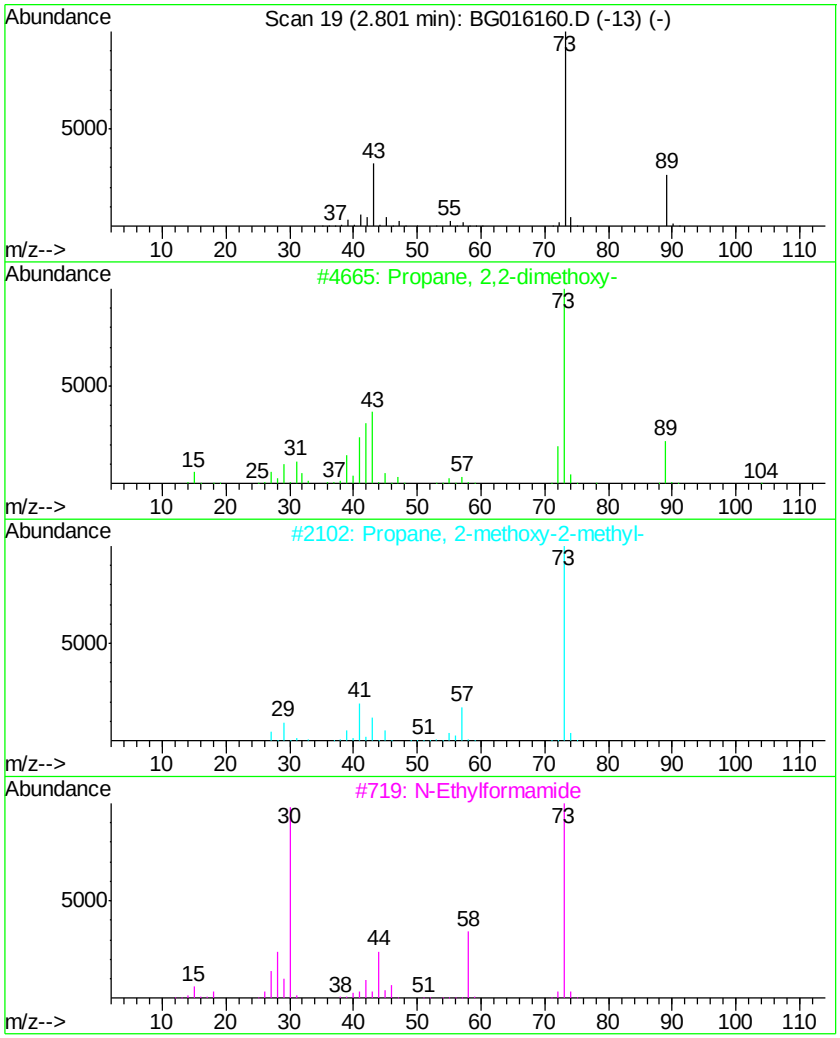
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

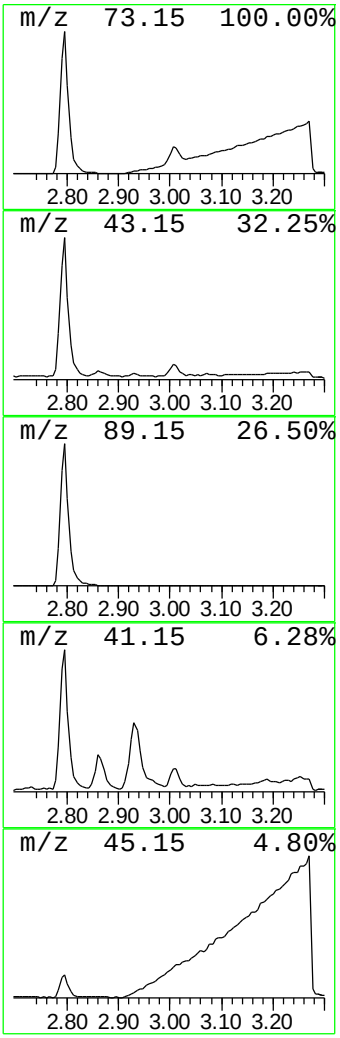
**********

Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.80 | 36.41 ng | 559805 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 50 |
| 2 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |
| 3 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 7 |
| 4 | 1,3,5-Trioxane | 90 | C3H6O3 | 000110-88-3 | 4 |
| 5 | 1,3-Dioxolane, 2-(6-heptynyl)- | 168 | C10H16O2 | 025595-82-8 | 4 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

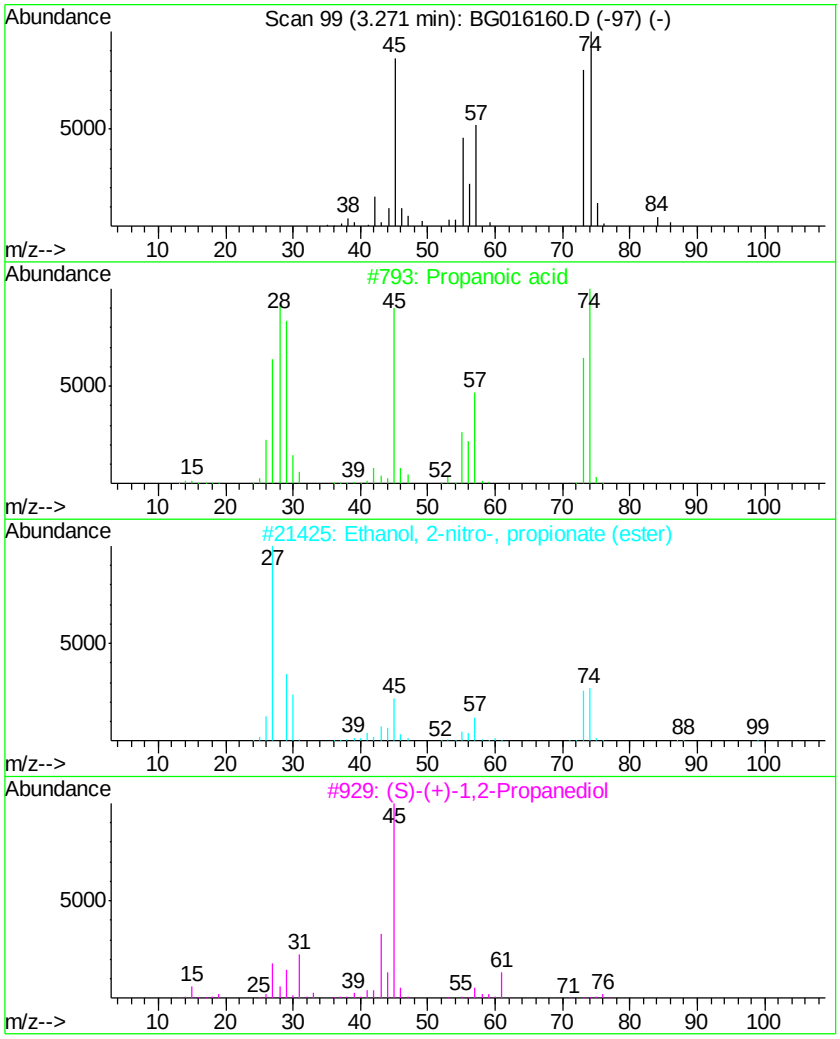
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

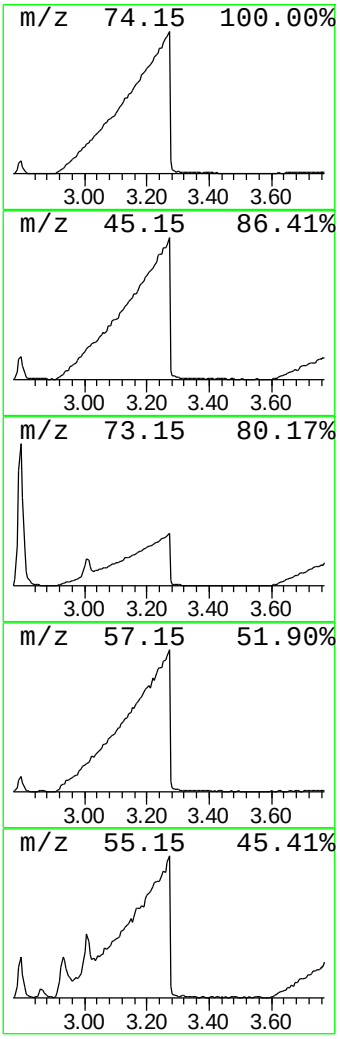
**********

Peak Number 2 Propanoic acid Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.27 | 19.72 ng | 303272 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid | 74 | C3H6O2 | 000079-09-4 | 87 |
| 2 | Ethanol, 2-nitro-, propionate (e... | 147 | C5H9NO4 | 005390-28-3 | 42 |
| 3 | (S)-(+)-1,2-Propanediol | 76 | C3H8O2 | 004254-15-3 | 9 |
| 4 | Acetic acid, hydroxy- | 76 | C2H4O3 | 000079-14-1 | 9 |
| 5 | Diethanolamine | 105 | C4H11NO2 | 000111-42-2 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

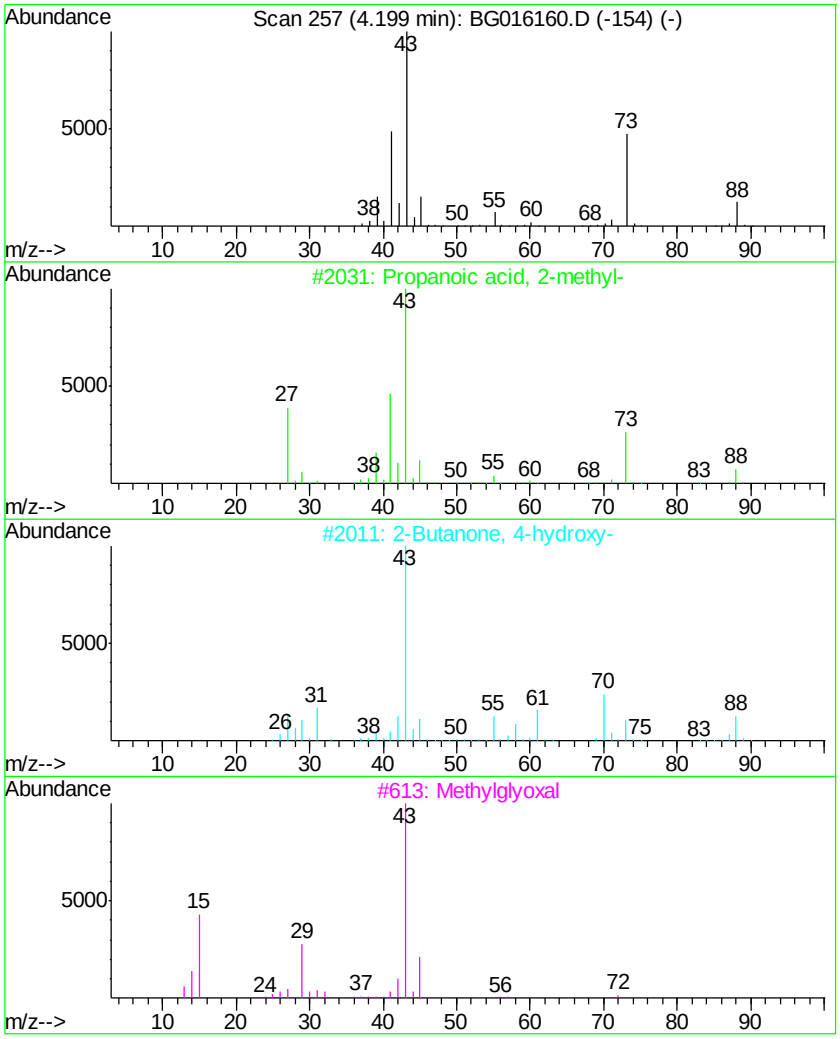
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

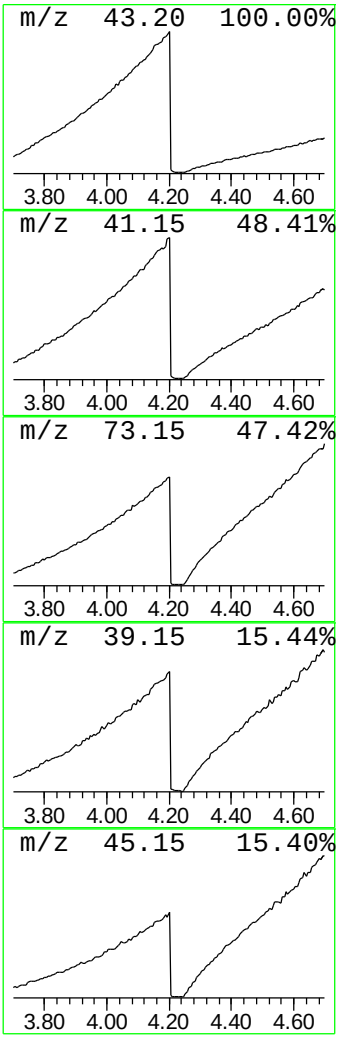
**********

Peak Number 3 Propanoic acid, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.20 | 1130.24 ng | 17379100 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 91 |
| 2 | 2-Butanone, 4-hydroxy- | 88 | C4H8O2 | 000590-90-9 | 50 |
| 3 | Methylglyoxal | 72 | C3H4O2 | 000078-98-8 | 9 |
| 4 | Propanoyl chloride, 2-methyl- | 106 | C4H7ClO | 000079-30-1 | 9 |
| 5 | 2-Oxo-n-valeric acid | 116 | C5H8O3 | 001821-02-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

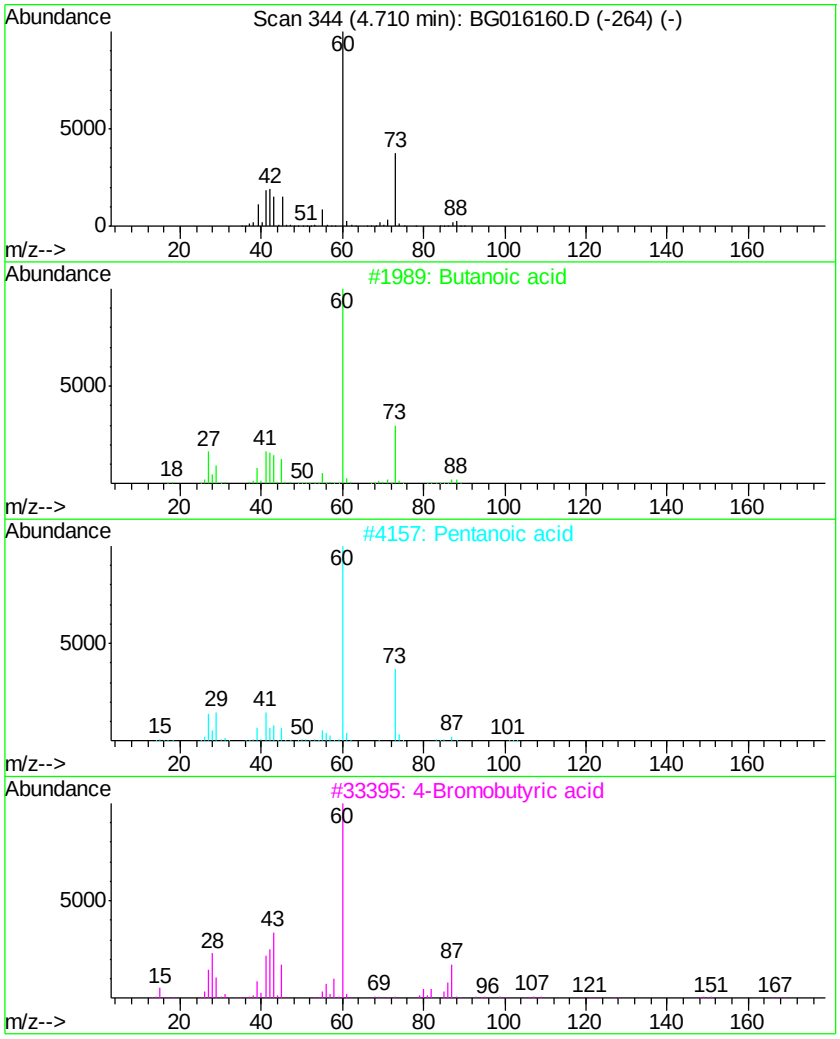
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

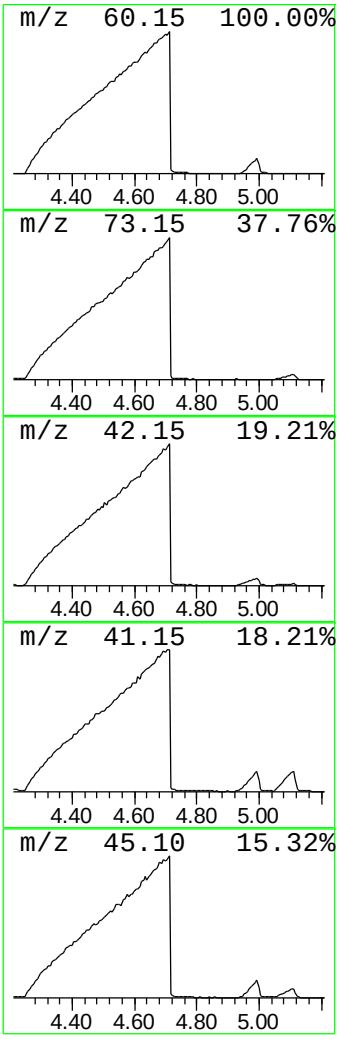
**********

Peak Number 4 Butanoic acid Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.71 | 1628.04 ng | 25033600 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid | 88 | C4H8O2 | 000107-92-6 | 91 |
| 2 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 50 |
| 3 | 4-Bromobutyric acid | 166 | C4H7BrO2 | 002623-87-2 | 9 |
| 4 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 9 |
| 5 | Propanedioic acid, propyl- | 146 | C6H10O4 | 000616-62-6 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

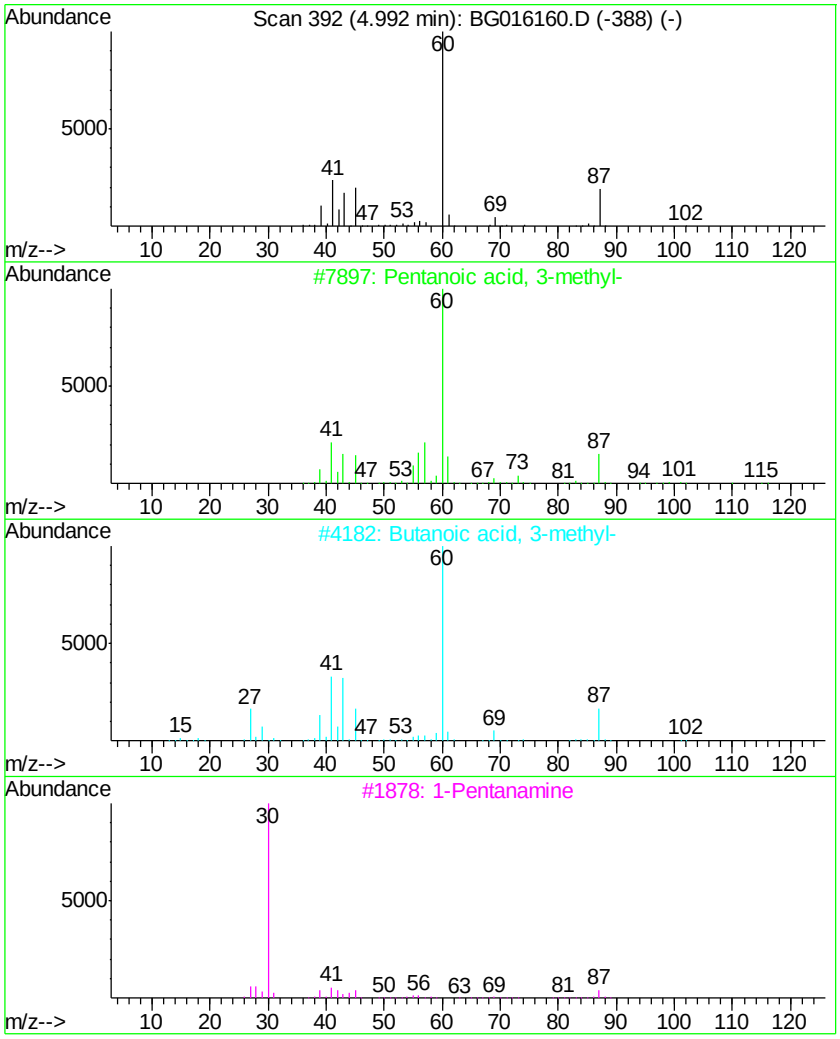
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

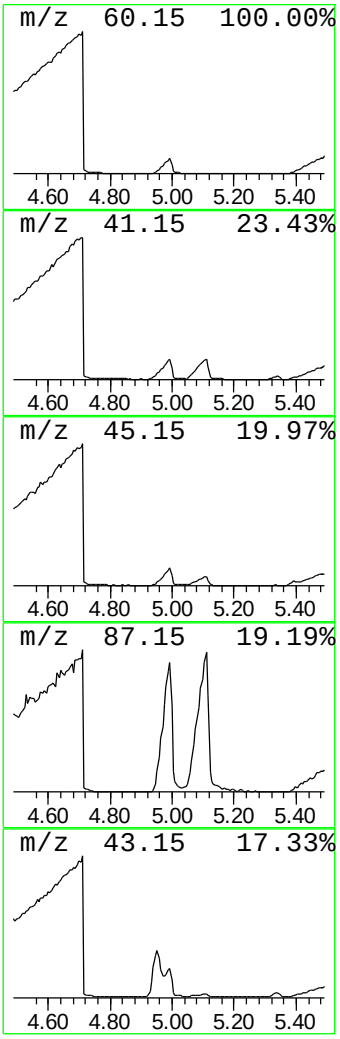
**********

Peak Number 5 Pentanoic acid, 3-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.99 | 17.13 ng | 263472 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanoic acid, 3-methyl- | 116 | C6H12O2 | 000105-43-1 | 64 |
| 2 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 64 |
| 3 | 1-Pentanamine | 87 | C5H13N | 000110-58-7 | 7 |
| 4 | Ethyne, chloro- | 60 | C2HCl | 000593-63-5 | 7 |
| 5 | Hydrazine, 1,1-dimethyl- | 60 | C2H8N2 | 000057-14-7 | 5 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

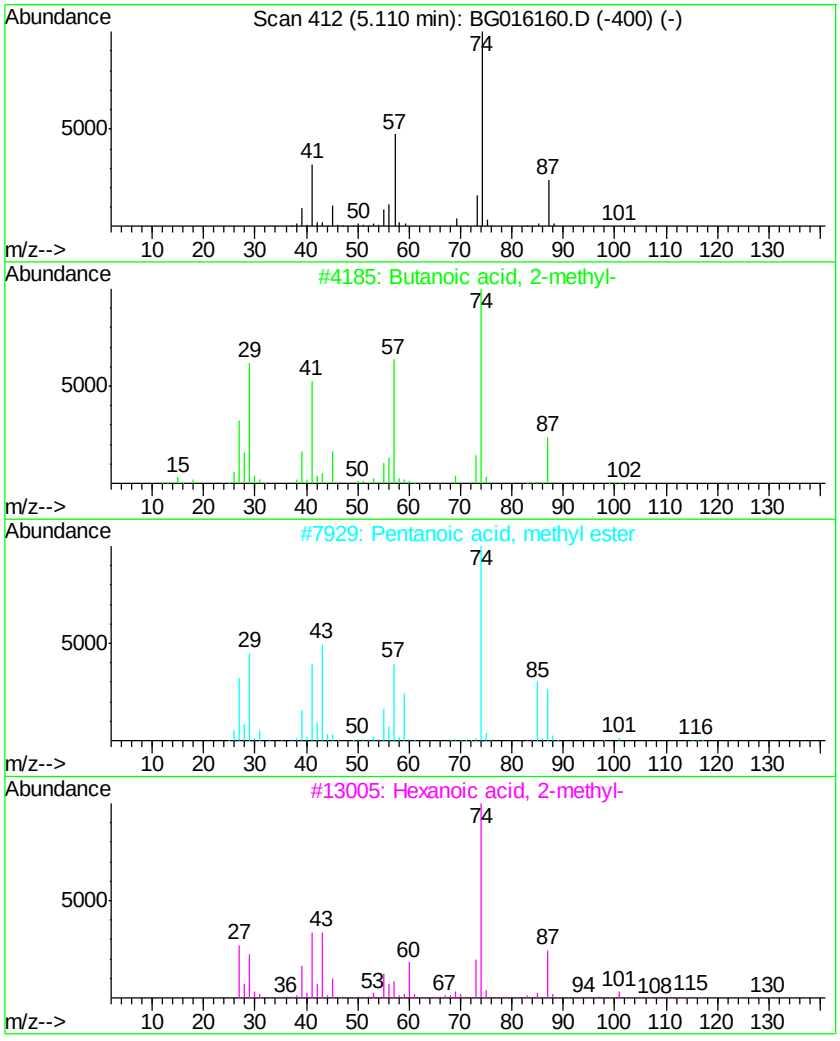
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

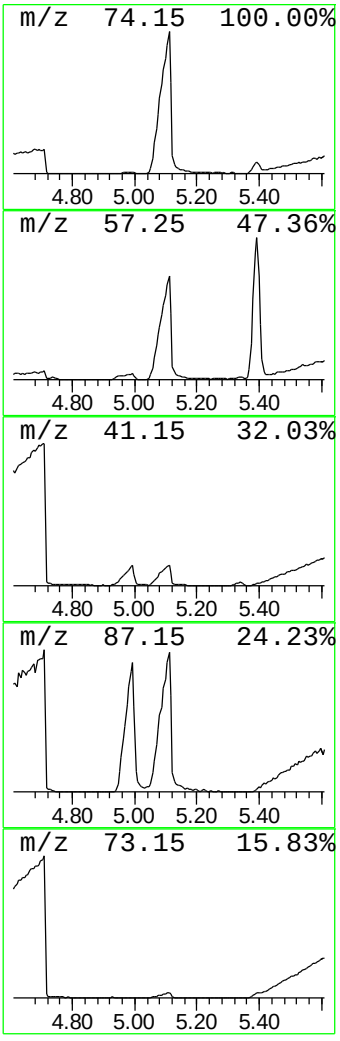
**********

Peak Number 6 Butanoic acid, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.11 | 25.27 ng | 388489 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 83 |
| 2 | Pentanoic acid, methyl ester | 116 | C6H12O2 | 000624-24-8 | 50 |
| 3 | Hexanoic acid, 2-methyl- | 130 | C7H14O2 | 004536-23-6 | 43 |
| 4 | Pentanoic acid, 2-methyl- | 116 | C6H12O2 | 000097-61-0 | 39 |
| 5 | 2-Methylheptanoic acid | 144 | C8H16O2 | 001188-02-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

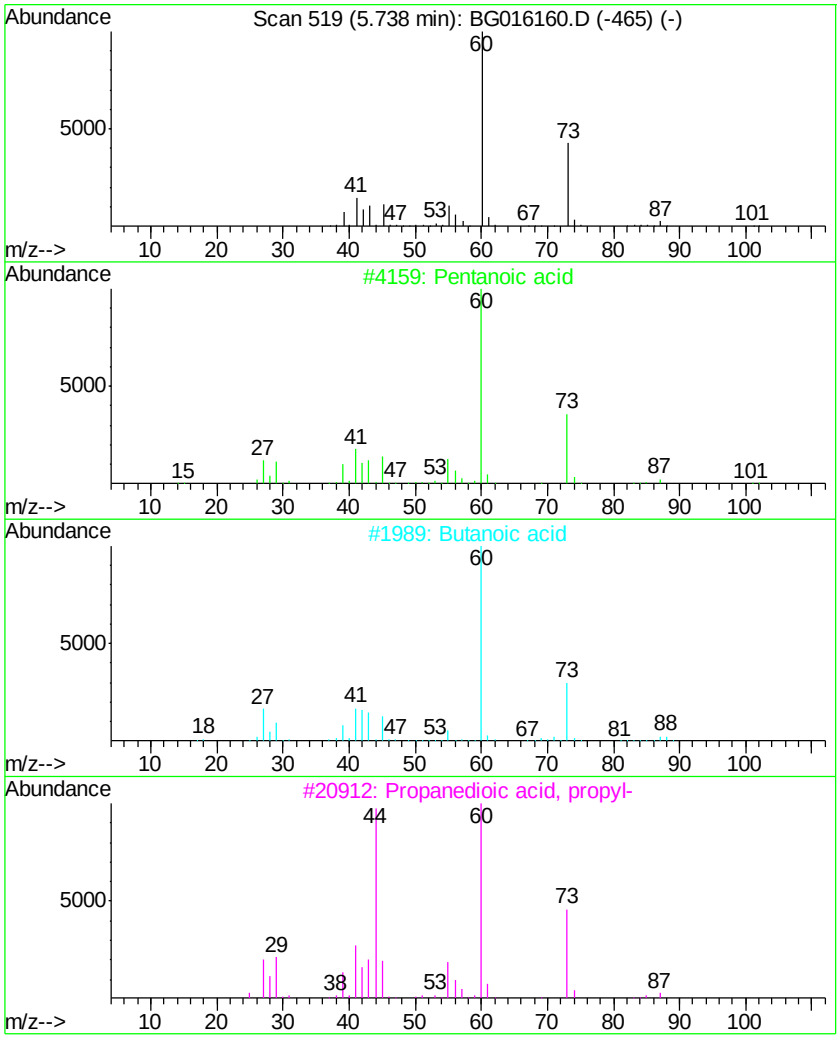
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

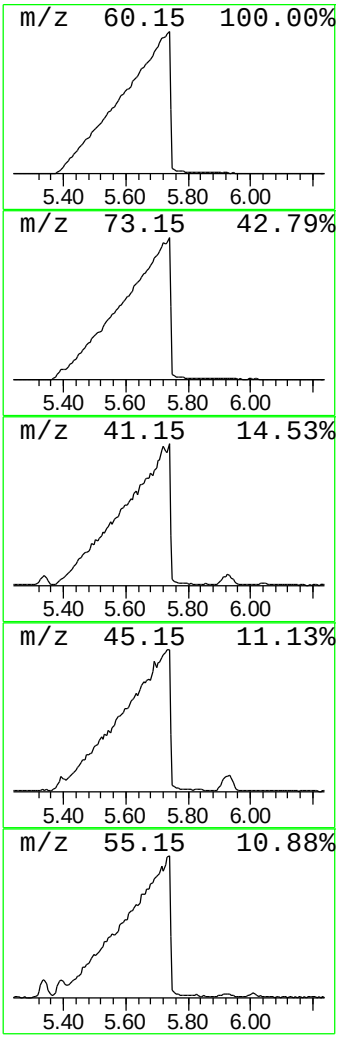
**********

Peak Number 7 Pentanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.74 | 441.48 ng | 6788320 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 83 |
| 2 | Butanoic acid | 88 | C4H8O2 | 000107-92-6 | 83 |
| 3 | Propanedioic acid, propyl- | 146 | C6H10O4 | 000616-62-6 | 42 |
| 4 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 40 |
| 5 | Pentanoic acid, 3-methyl- | 116 | C6H12O2 | 000105-43-1 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

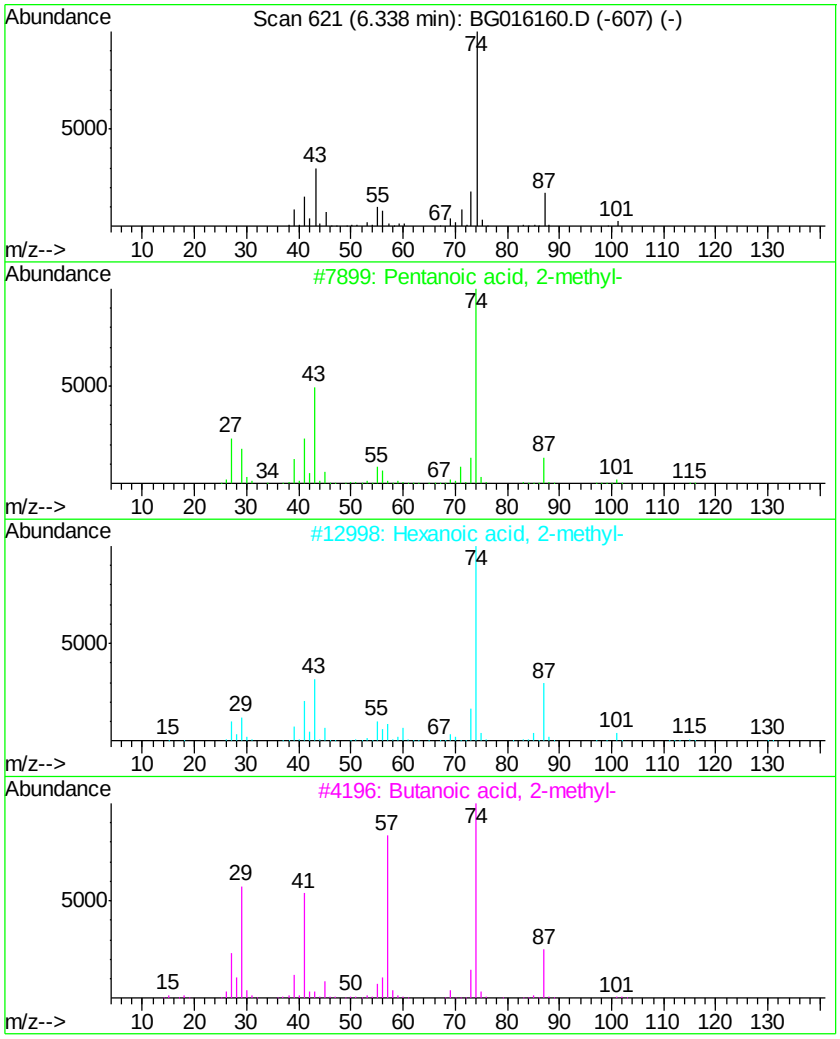
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

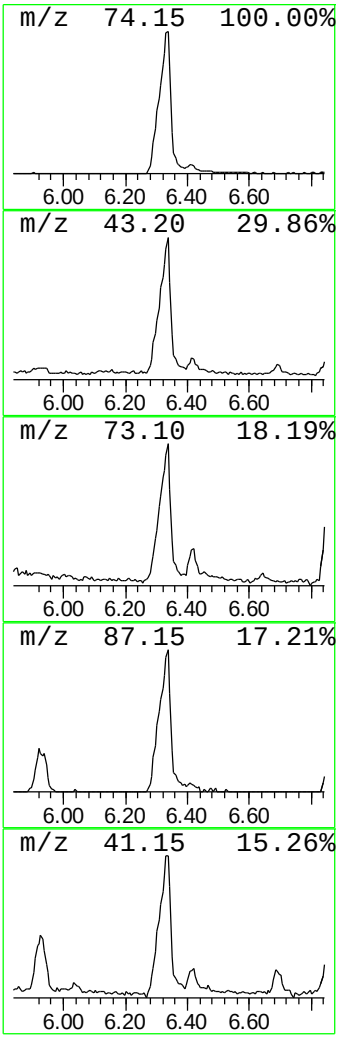
**********

Peak Number 8 Pentanoic acid, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.34 | 20.19 ng | 310515 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanoic acid, 2-methyl- | 116 | C6H12O2 | 000097-61-0 | 83 |
| 2 | Hexanoic acid, 2-methyl- | 130 | C7H14O2 | 004536-23-6 | 72 |
| 3 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 64 |
| 4 | 2-Methylheptanoic acid | 144 | C8H16O2 | 001188-02-9 | 40 |
| 5 | N-Nitrosodimethylamine | 74 | C2H6N2O | 000062-75-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

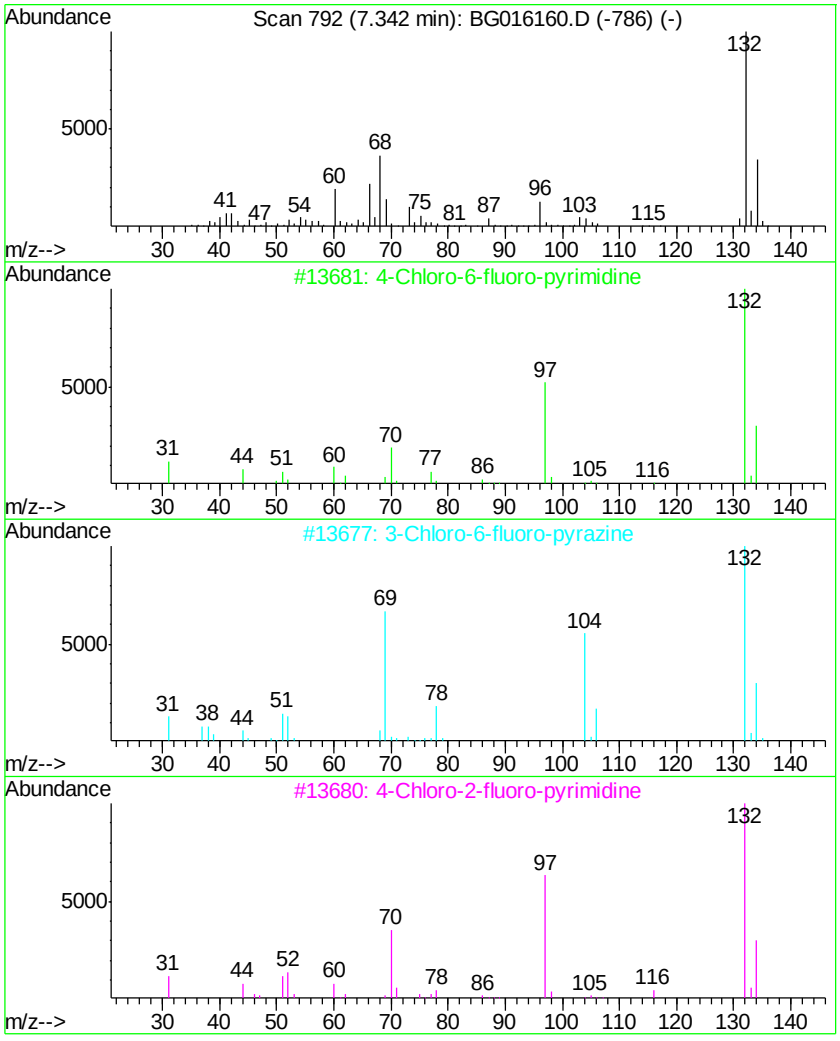
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

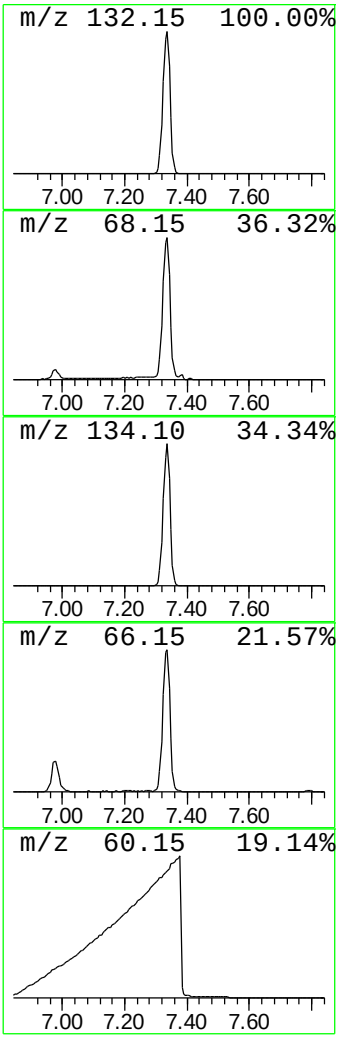
**********

Peak Number 9 unknown7.34 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.34 | 97.82 ng | 1504070 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 35 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 3 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 25 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 17 |
| 5 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

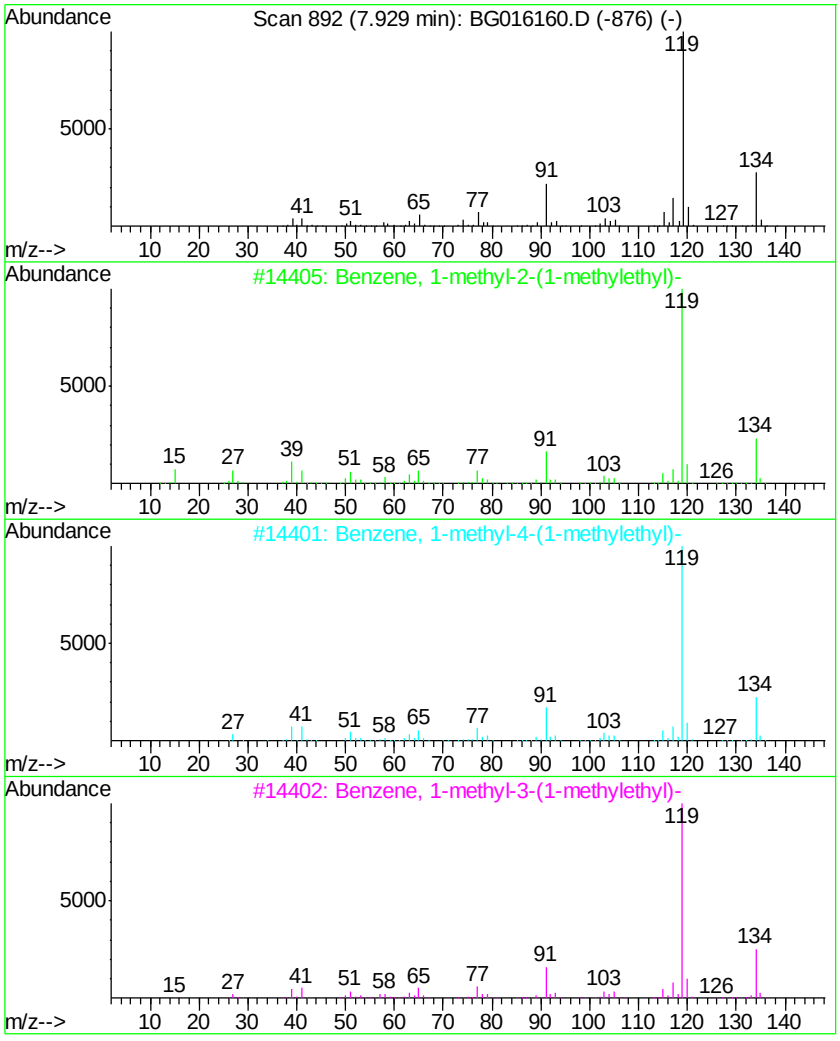
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

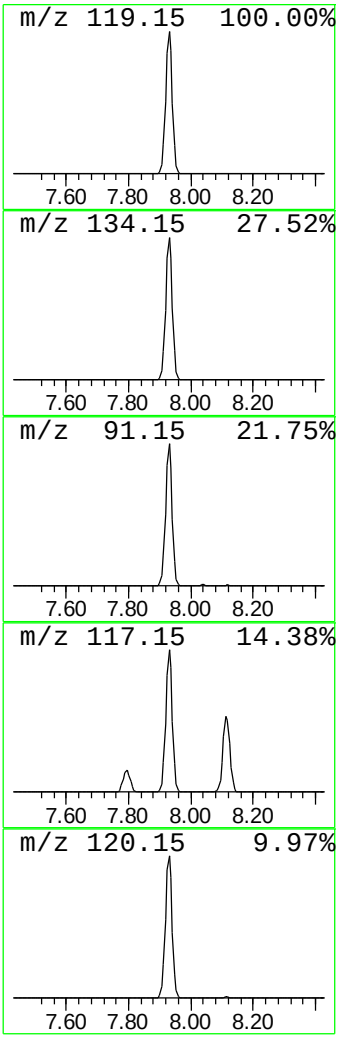
**********

Peak Number 10 Benzene, 1-methyl-2-(1-meth... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.93 | 96.29 ng | 1480650 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 97 |
| 2 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 97 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

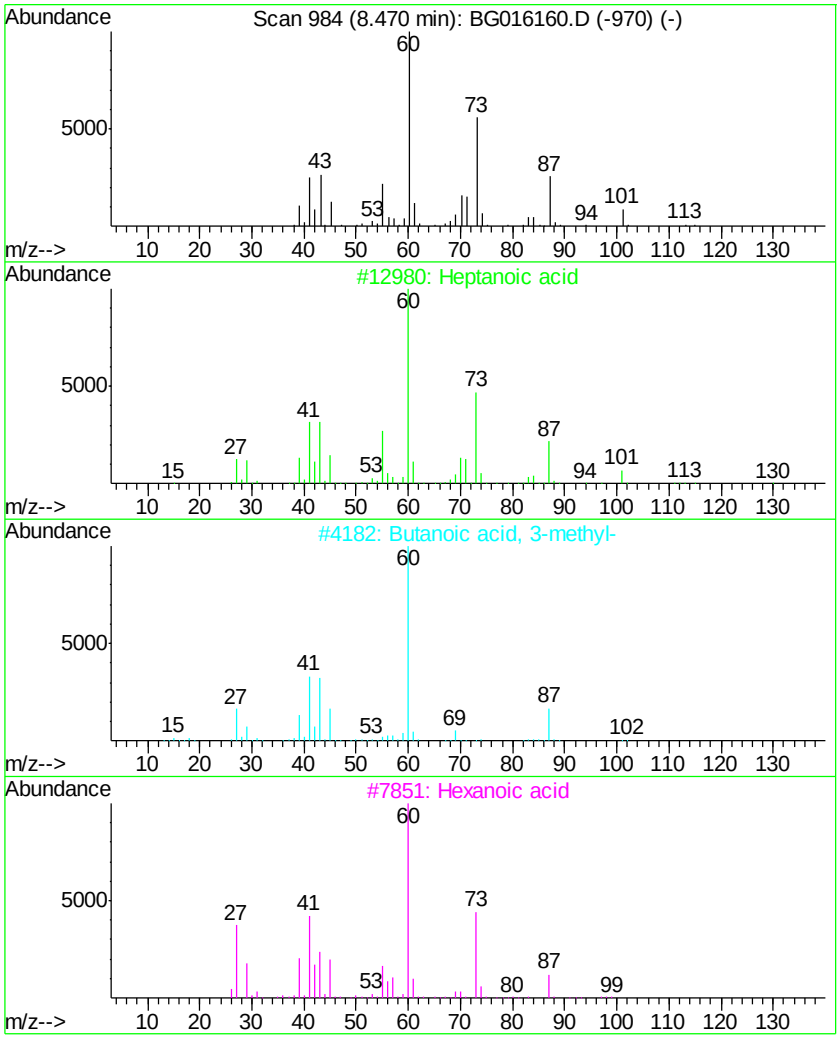
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

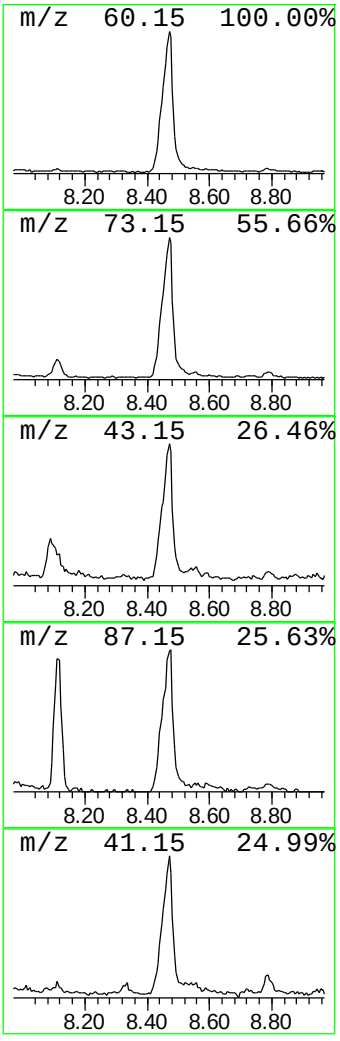
**********

Peak Number 12 Heptanoic acid Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.47 | 21.61 ng | 332328 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanoic acid | 130 | C7H14O2 | 000111-14-8 | 90 |
| 2 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 59 |
| 3 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 56 |
| 4 | Octanoic Acid | 144 | C8H16O2 | 000124-07-2 | 53 |
| 5 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 50 |



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Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

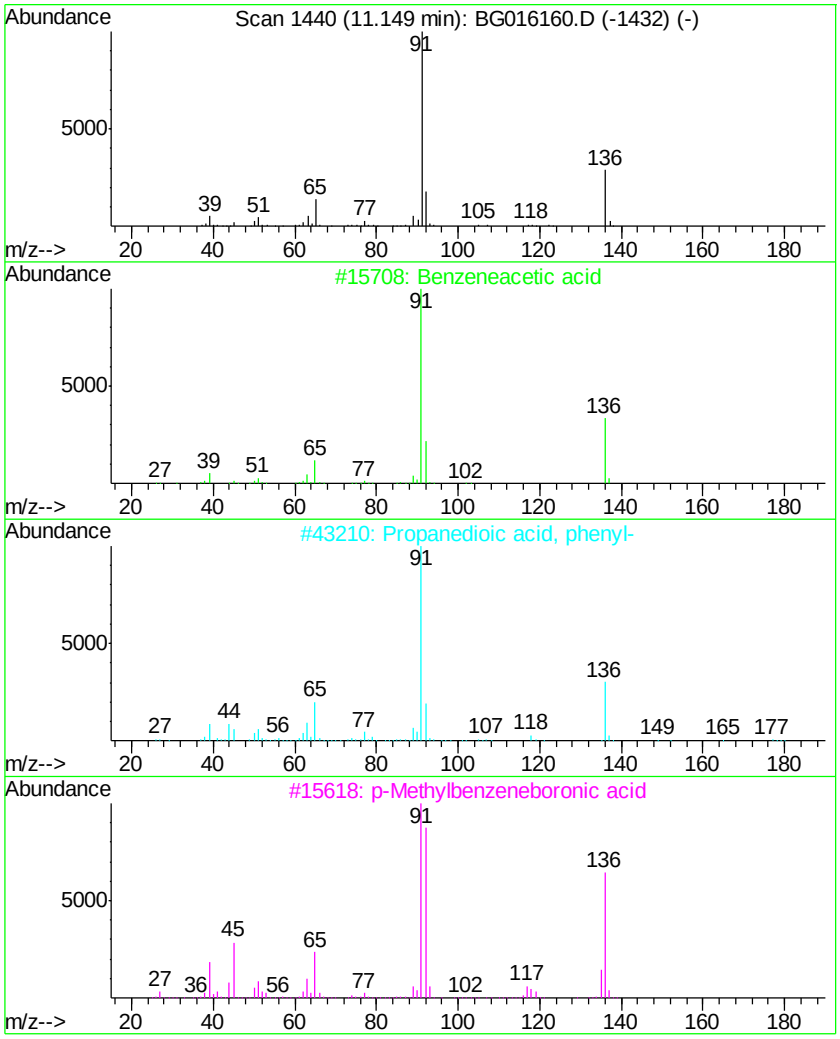
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

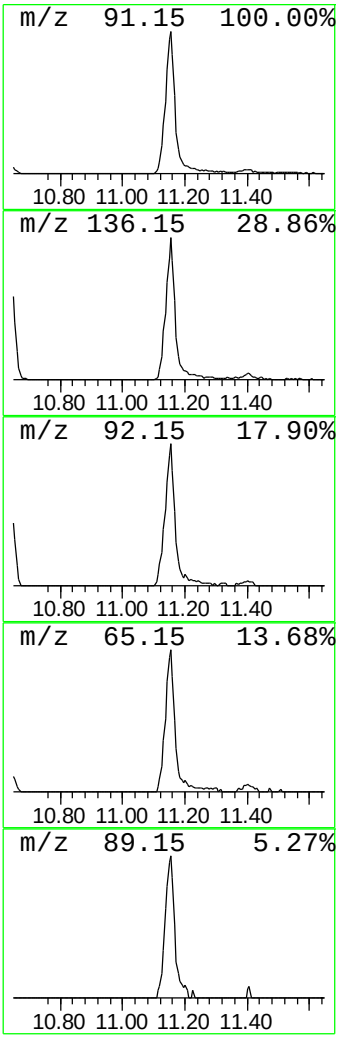
**********

Peak Number 14 Benzeneacetic acid Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.15 | 12.86 ng | 308856 | Naphthalene-d8 | 10.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetic acid | 136 | C8H8O2 | 000103-82-2 | 90 |
| 2 | Propanedioic acid, phenyl- | 180 | C9H8O4 | 002613-89-0 | 72 |
| 3 | p-Methylbenzeneboronic acid | 136 | C7H9BO2 | 005720-05-8 | 64 |
| 4 | Benzene, (iodomethyl)- | 218 | C7H7I | 000620-05-3 | 53 |
| 5 | 2-Benzyloxy-4-bromobutane-1,3-diol | 274 | C11H15BrO3 | 1000191-12-1 | 50 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.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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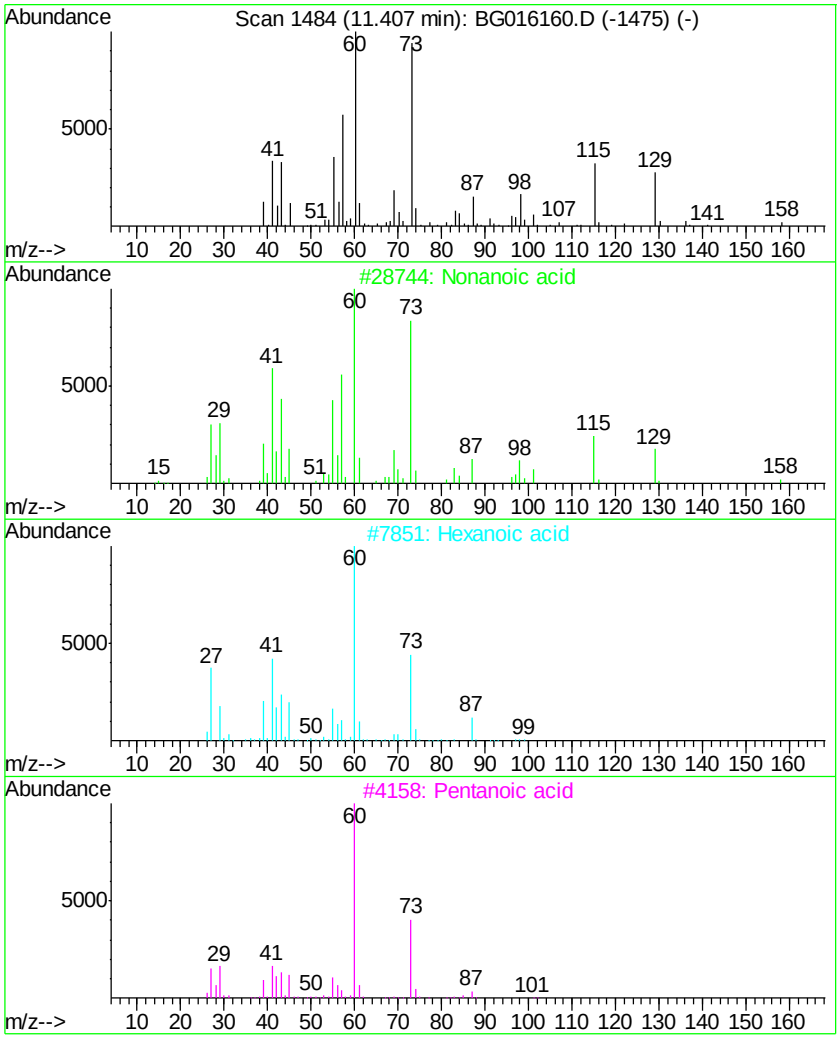
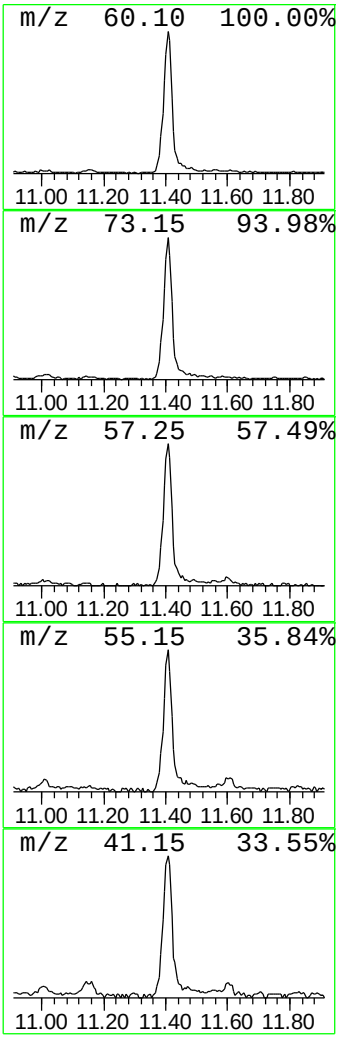
Peak Number 15 Nonanoic acid Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.41 | 12.71 ng | 305147 | Naphthalene-d8 | 10.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 90 |
| 2 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 47 |
| 3 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 46 |
| 4 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 43 |
| 5 | Pentanoic acid, 3-methyl- | 116 | C6H12O2 | 000105-43-1 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

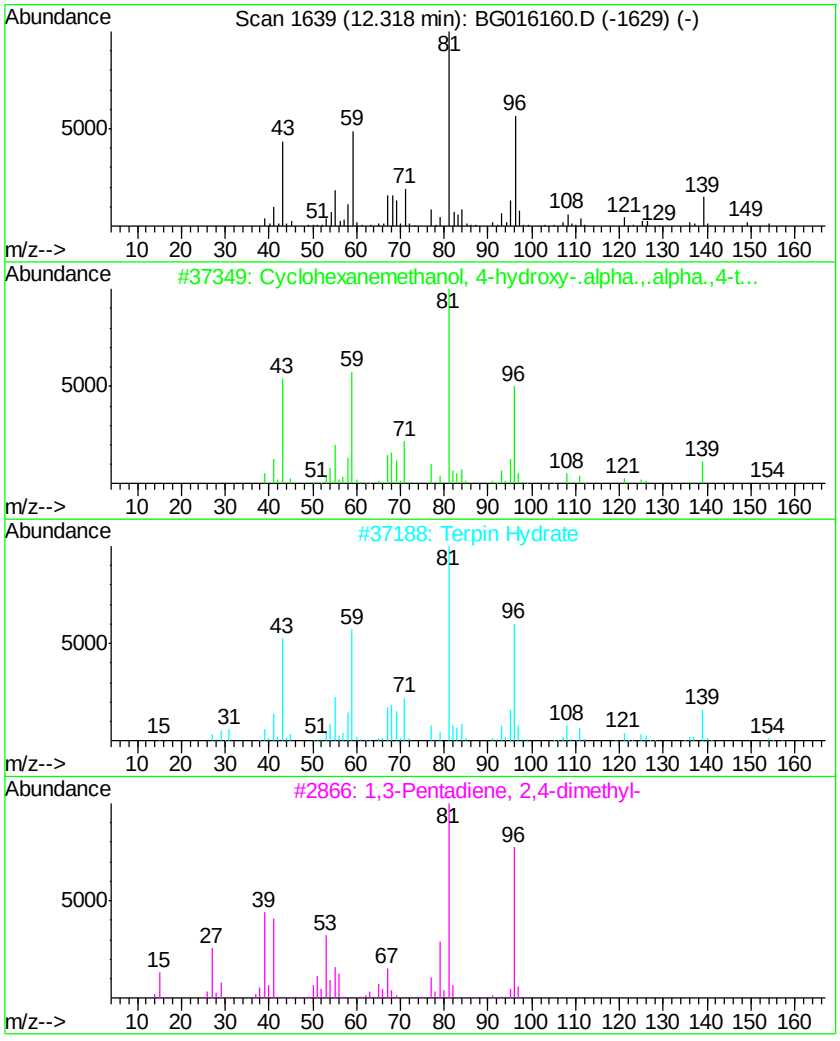
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

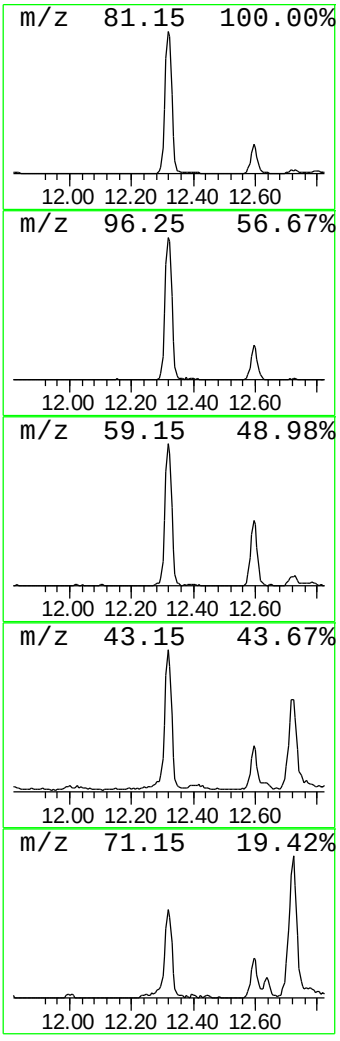
**********

Peak Number 16 Cyclohexanemethanol, 4-hydr... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.32 | 13.12 ng | 314903 | Naphthalene-d8 | 10.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanemethanol, 4-hydroxy-.... | 172 | C10H20O2 | 000080-53-5 | 91 |
| 2 | Terpin Hydrate | 172 | C10H20O2 | 002451-01-6 | 58 |
| 3 | 1,3-Pentadiene, 2,4-dimethyl- | 96 | C7H12 | 001000-86-8 | 47 |
| 4 | 6-Methyl-bicyclo[4.2.0]octan-7-ol | 140 | C9H16O | 1000193-87-3 | 47 |
| 5 | 4-Methylcyclohexanol acetate | 156 | C9H16O2 | 022597-23-5 | 47 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.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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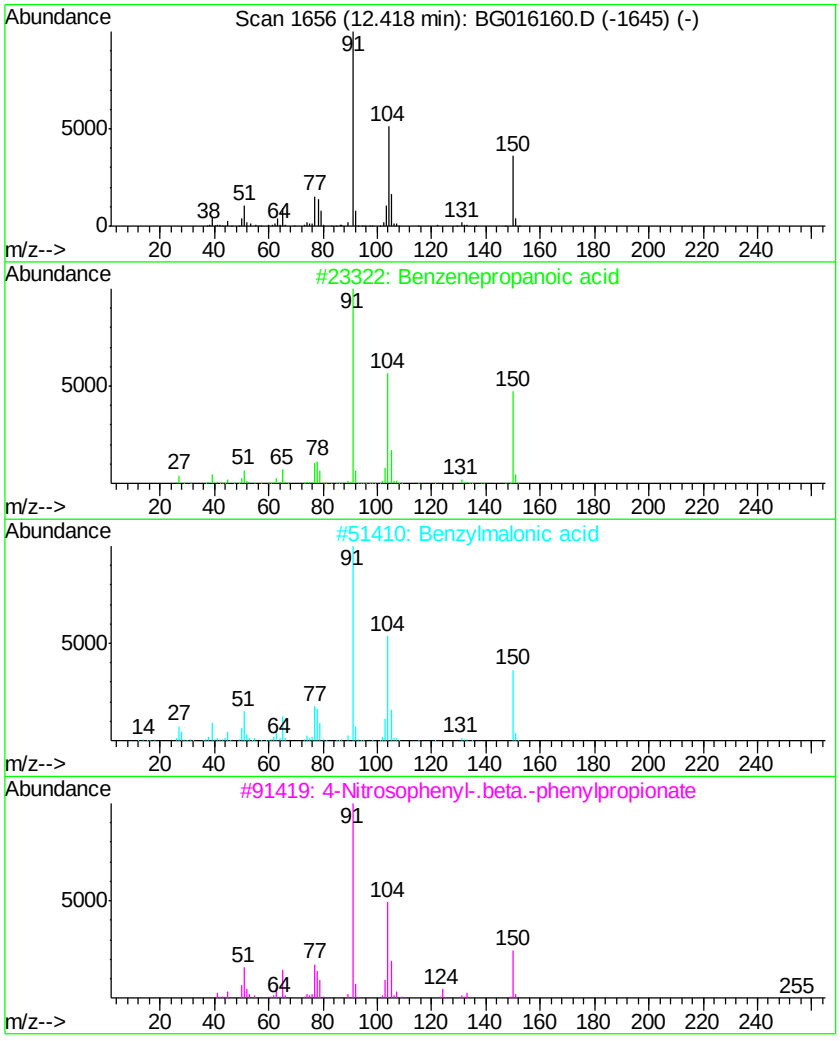
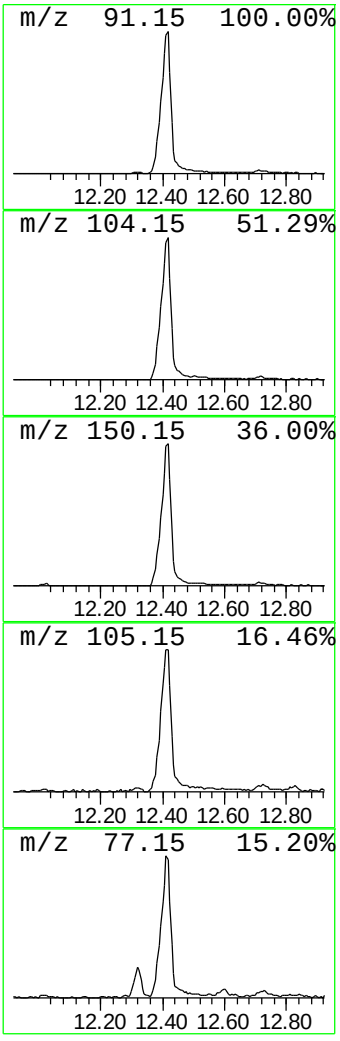
Peak Number 17 Benzenepropanoic acid Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 29.07 ng | 698008 | Naphthalene-d8 | 10.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenepropanoic acid | 150 | C9H10O2 | 000501-52-0 | 95 |
| 2 | Benzylmalonic acid | 194 | C10H10O4 | 000616-75-1 | 91 |
| 3 | 4-Nitrosophenyl-.beta.-phenylpro... | 255 | C15H13NO3 | 1000129-40-0 | 78 |
| 4 | 3-Phenyl-propionic acid, isoprop... | 192 | C12H16O2 | 022767-95-9 | 78 |
| 5 | 2-Butenoic acid, 3-methyl-, 2-ph... | 204 | C13H16O2 | 042078-65-9 | 53 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.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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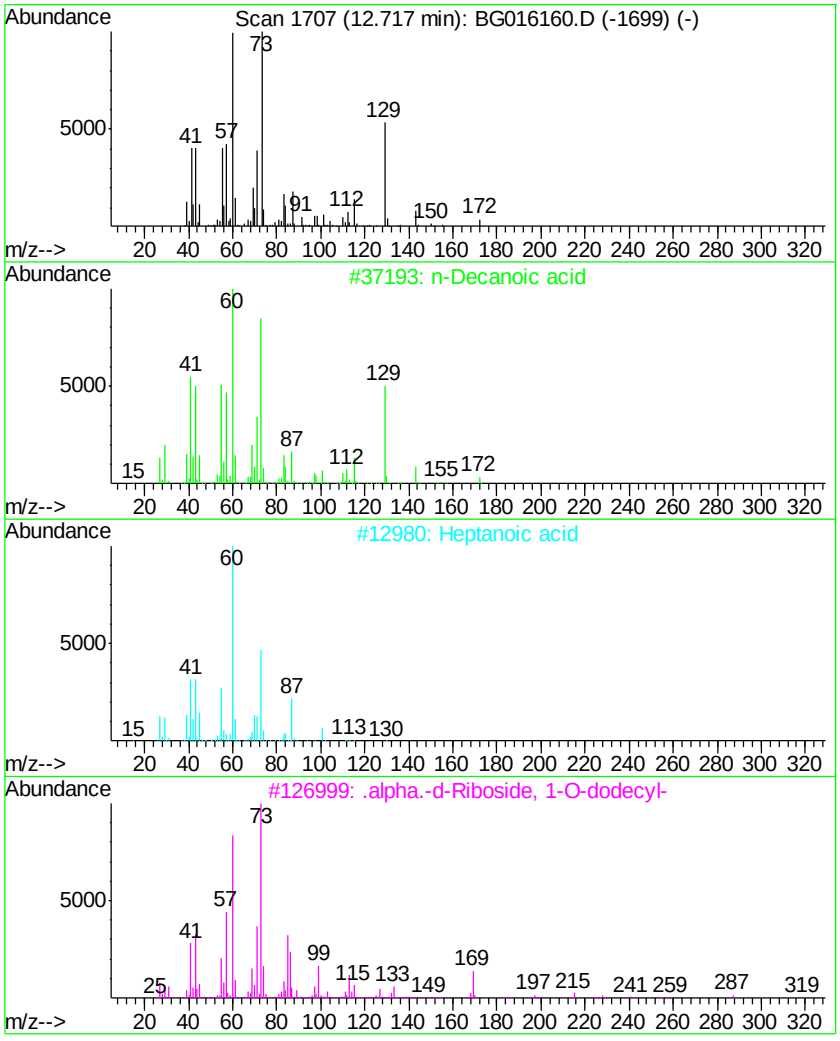
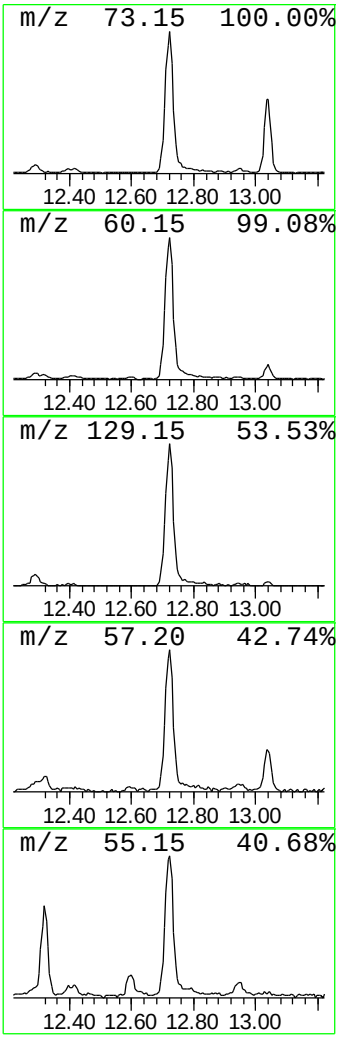
Peak Number 18 n-Decanoic acid Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.72 | 12.74 ng | 423363 | Acenaphthene-d10 | 14.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 98 |
| 2 | Heptanoic acid | 130 | C7H14O2 | 000111-14-8 | 43 |
| 3 | .alpha.-d-Riboside, 1-O-dodecyl- | 318 | C17H34O5 | 1000154-76-8 | 42 |
| 4 | .alpha.-L-Galactopyranoside, met... | 178 | C7H14O5 | 014687-15-1 | 38 |
| 5 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

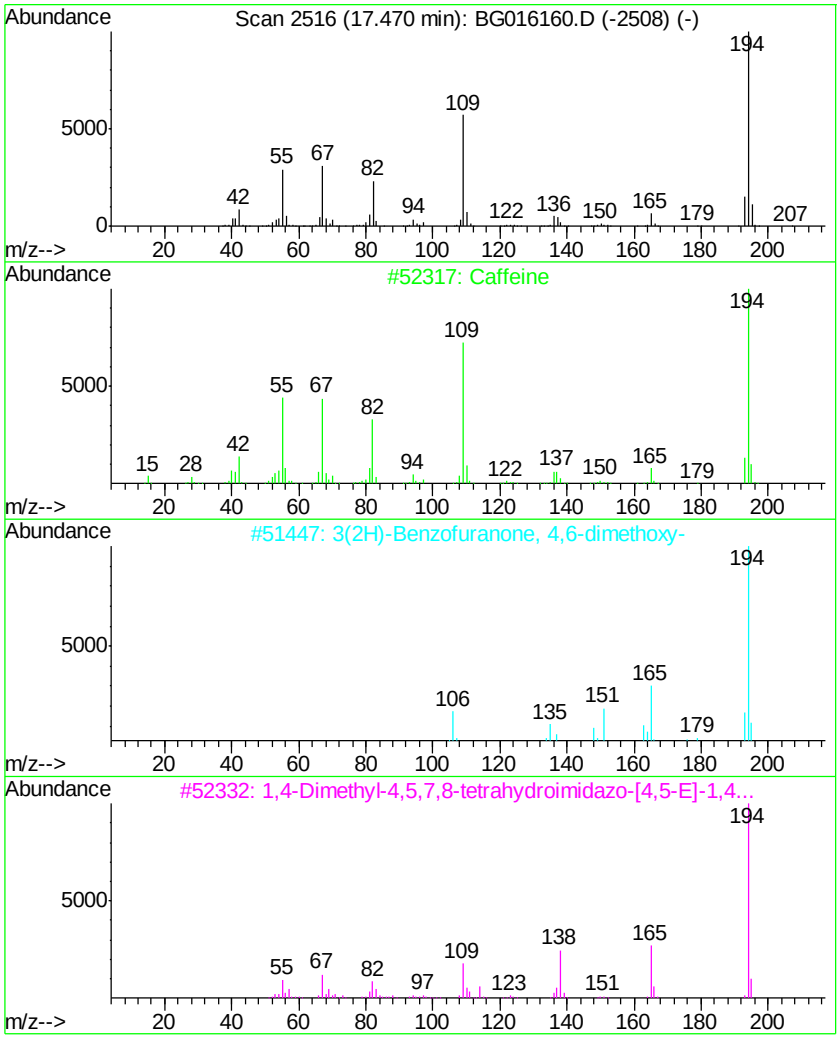
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

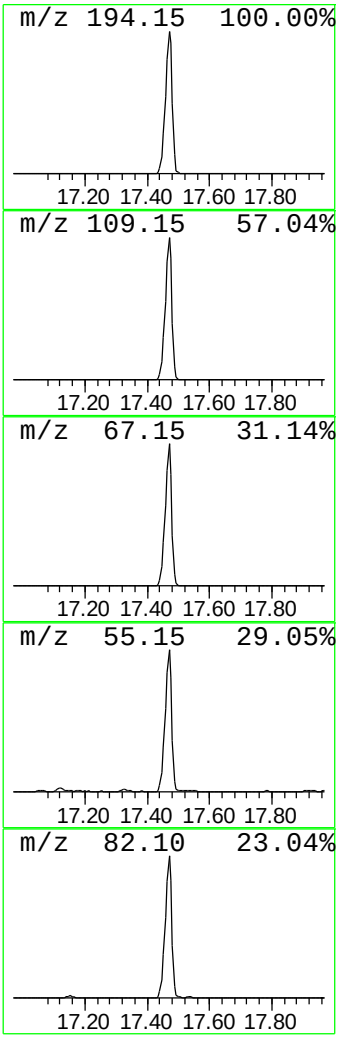
**********

Peak Number 19 Caffeine Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.47 | 69.04 ng | 2778690 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Caffeine | 194 | C8H10N4O2 | 000058-08-2 | 97 |
| 2 | 3(2H)-Benzofuranone, 4,6-dimethoxy- | 194 | C10H10O4 | 004225-35-8 | 50 |
| 3 | 1,4-Dimethyl-4,5,7,8-tetrahydroi... | 194 | C8H10N4O2 | 130063-15-9 | 47 |
| 4 | Anthrone | 194 | C14H10O | 000090-44-8 | 43 |
| 5 | .alpha.-Methylstilbene | 194 | C15H14 | 000779-51-1 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

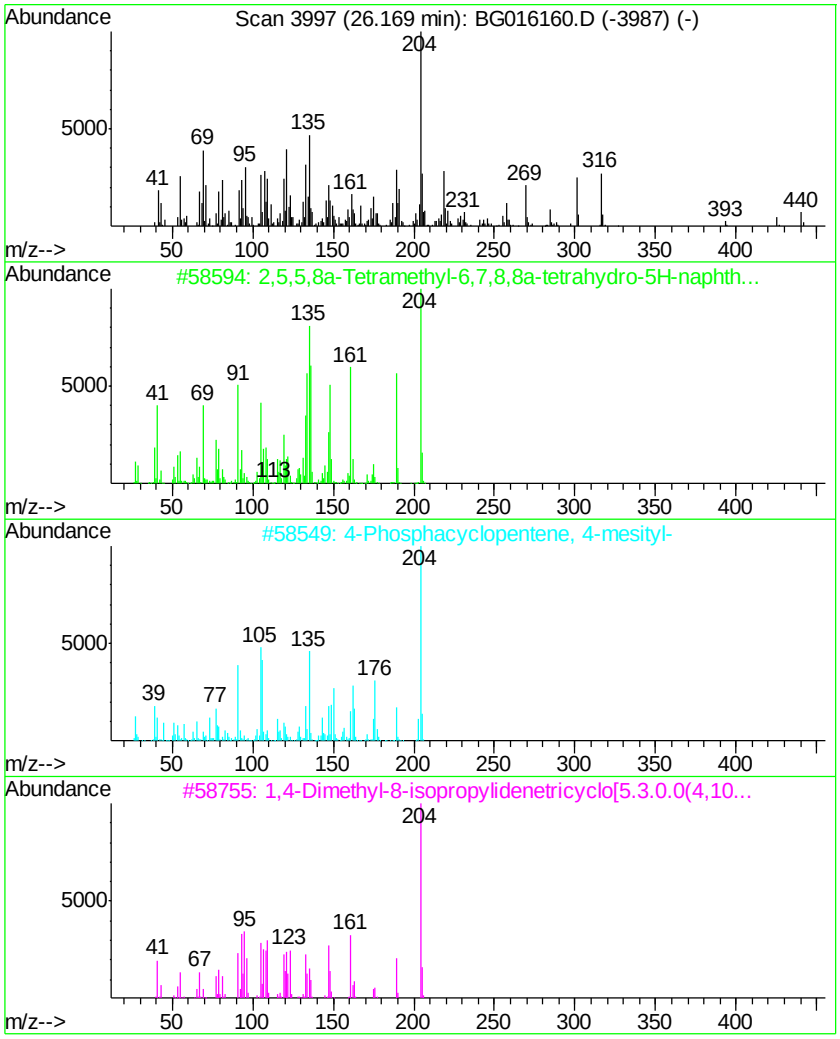
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

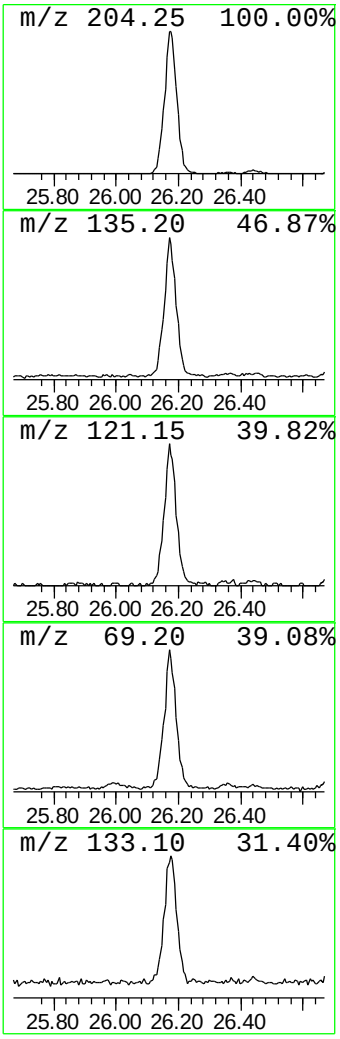
**********

Peak Number 20 2,5,5,8a-Tetramethyl-6,7,8,... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.17 | 22.32 ng | 991652 | Perylene-d12 | 23.61 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5,5,8a-Tetramethyl-6,7,8,8a-te... | 204 | C14H20O | 124957-09-1 | 50 |
| 2 | 4-Phosphacyclopentene, 4-mesityl- | 204 | C13H17P | 214605-01-3 | 43 |
| 3 | 1,4-Dimethyl-8-isopropylidenetri... | 204 | C15H24 | 1000140-07-7 | 42 |
| 4 | Naphthalene, 1,2,3,5,6,7,8,8a-oc... | 204 | C15H24 | 004630-07-3 | 37 |
| 5 | 1H-Cycloprop[e]azulene, 1a,2,3,4... | 204 | C15H24 | 000489-40-7 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032615\
Data File : BG016160.D
Acq On : 27 Mar 2015 3:54
Operator : TP/IZ
Sample : G1653-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** FD4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032515.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... | 2.80 | 36.4 | ng | 559805 | 1 | 7.79 | 307529 | 20.0 |
| Propanoic acid | 3.27 | 19.7 | ng | 303272 | 1 | 7.79 | 307529 | 20.0 |
| Propanoic acid, 2... | 4.20 | 1130.2 | ng | 17379100 | 1 | 7.79 | 307529 | 20.0 |
| Butanoic acid | 4.71 | 1628.0 | ng | 25033600 | 1 | 7.79 | 307529 | 20.0 |
| Pentanoic acid, 3... | 4.99 | 17.1 | ng | 263472 | 1 | 7.79 | 307529 | 20.0 |
| Butanoic acid, 2-... | 5.11 | 25.3 | ng | 388489 | 1 | 7.79 | 307529 | 20.0 |
| Pentanoic acid | 5.74 | 441.5 | ng | 6788320 | 1 | 7.79 | 307529 | 20.0 |
| Pentanoic acid, 2... | 6.34 | 20.2 | ng | 310515 | 1 | 7.79 | 307529 | 20.0 |
| unknown7.34 | 7.34 | 97.8 | ng | 1504070 | 1 | 7.79 | 307529 | 20.0 |
| Benzene, 1-methyl... | 7.93 | 96.3 | ng | 1480650 | 1 | 7.79 | 307529 | 20.0 |
| Heptanoic acid | 8.47 | 21.6 | ng | 332328 | 1 | 7.79 | 307529 | 20.0 |
| Benzeneacetic acid | 11.15 | 12.9 | ng | 308856 | 2 | 10.58 | 480208 | 20.0 |
| Nonanoic acid | 11.41 | 12.7 | ng | 305147 | 2 | 10.58 | 480208 | 20.0 |
| Cyclohexanemethan... | 12.32 | 13.1 | ng | 314903 | 2 | 10.58 | 480208 | 20.0 |
| Benzenepropanoic ... | 12.42 | 29.1 | ng | 698008 | 2 | 10.58 | 480208 | 20.0 |
| n-Decanoic acid | 12.72 | 12.7 | ng | 423363 | 3 | 14.41 | 664570 | 20.0 |
| Caffeine | 17.47 | 69.0 | ng | 2778690 | 4 | 17.15 | 804896 | 20.0 |
| 2,5,5,8a-Tetramet... | 26.17 | 22.3 | ng | 991652 | 6 | 23.61 | 888719 | 20.0 |