LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

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_F\METHODS\8270-BF040115.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 | 1.427 | 20 | 21 | 27 | rBV | 481611 | 813038 | 15.55% | 5.203% |
| 2 | 1.518 | 27 | 29 | 68 | rVB | 2417612 | 5228279 | 100.00% | 33.461% |
| 3 | 3.358 | 189 | 190 | 198 | rVB | 56995 | 98255 | 1.88% | 0.629% |
| 4 | 3.873 | 232 | 235 | 242 | rBV | 573201 | 691020 | 13.22% | 4.423% |
| 5 | 5.359 | 363 | 365 | 374 | rBV | 607296 | 742445 | 14.20% | 4.752% |
| 6 | 5.496 | 374 | 377 | 380 | rVV | 613765 | 774832 | 14.82% | 4.959% |
| 7 | 5.850 | 406 | 408 | 411 | rBV | 149114 | 210811 | 4.03% | 1.349% |
| 8 | 6.090 | 426 | 429 | 432 | rBV | 514021 | 626970 | 11.99% | 4.013% |
| 9 | 6.799 | 488 | 491 | 493 | rBV | 367984 | 497653 | 9.52% | 3.185% |
| 10 | 8.010 | 595 | 597 | 600 | rBV | 197276 | 297263 | 5.69% | 1.902% |
| 11 | 10.033 | 770 | 774 | 776 | rBV | 597190 | 902317 | 17.26% | 5.775% |
| 12 | 10.833 | 841 | 844 | 847 | rVB | 59274 | 75425 | 1.44% | 0.483% |
| 13 | 11.199 | 873 | 876 | 880 | rVB2 | 261705 | 354139 | 6.77% | 2.267% |
| 14 | 12.674 | 1002 | 1005 | 1008 | rVB | 375644 | 495951 | 9.49% | 3.174% |
| 15 | 13.131 | 1042 | 1045 | 1049 | rBV2 | 24373 | 65816 | 1.26% | 0.421% |
| 16 | 13.931 | 1112 | 1115 | 1118 | rBV | 253825 | 403984 | 7.73% | 2.586% |
| 17 | 15.862 | 1281 | 1284 | 1286 | rBV | 106492 | 122540 | 2.34% | 0.784% |
| 18 | 16.171 | 1309 | 1311 | 1314 | rVB | 144493 | 159802 | 3.06% | 1.023% |
| 19 | 16.354 | 1325 | 1327 | 1331 | rBV | 109442 | 172131 | 3.29% | 1.102% |
| 20 | 16.457 | 1334 | 1336 | 1339 | rVB | 630199 | 707071 | 13.52% | 4.525% |
| 21 | 17.794 | 1448 | 1453 | 1455 | rBV2 | 432062 | 670256 | 12.82% | 4.290% |
| 22 | 17.828 | 1455 | 1456 | 1458 | rVB | 96349 | 76315 | 1.46% | 0.488% |
| 23 | 19.063 | 1561 | 1564 | 1572 | rVV | 152607 | 412151 | 7.88% | 2.638% |
| 24 | 19.349 | 1587 | 1589 | 1592 | rBV | 94731 | 114594 | 2.19% | 0.733% |
| 25 | 19.406 | 1592 | 1594 | 1597 | rVB | 122864 | 140725 | 2.69% | 0.901% |
| 26 | 19.463 | 1597 | 1599 | 1601 | rBV | 296254 | 421932 | 8.07% | 2.700% |
| 27 | 20.377 | 1676 | 1679 | 1685 | rVB4 | 19228 | 59894 | 1.15% | 0.383% |
| 28 | 20.606 | 1696 | 1699 | 1703 | rVB2 | 64827 | 117538 | 2.25% | 0.752% |
| 29 | 20.926 | 1724 | 1727 | 1731 | rVB | 55773 | 108577 | 2.08% | 0.695% |
| 30 | 23.395 | 1934 | 1943 | 1949 | rVB3 | 13804 | 63159 | 1.21% | 0.404% |

Sum of corrected areas: 15624883

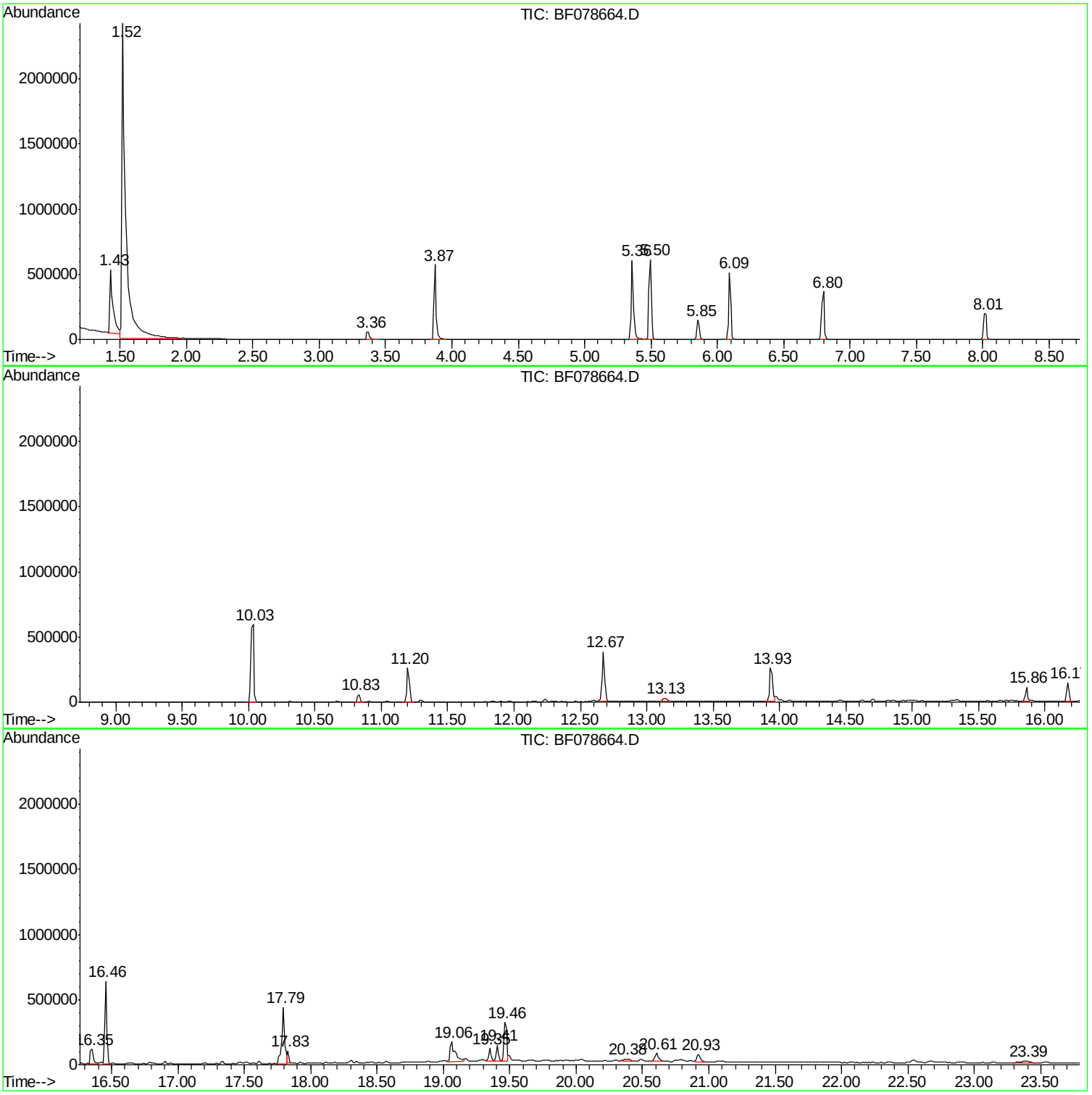
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.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 F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

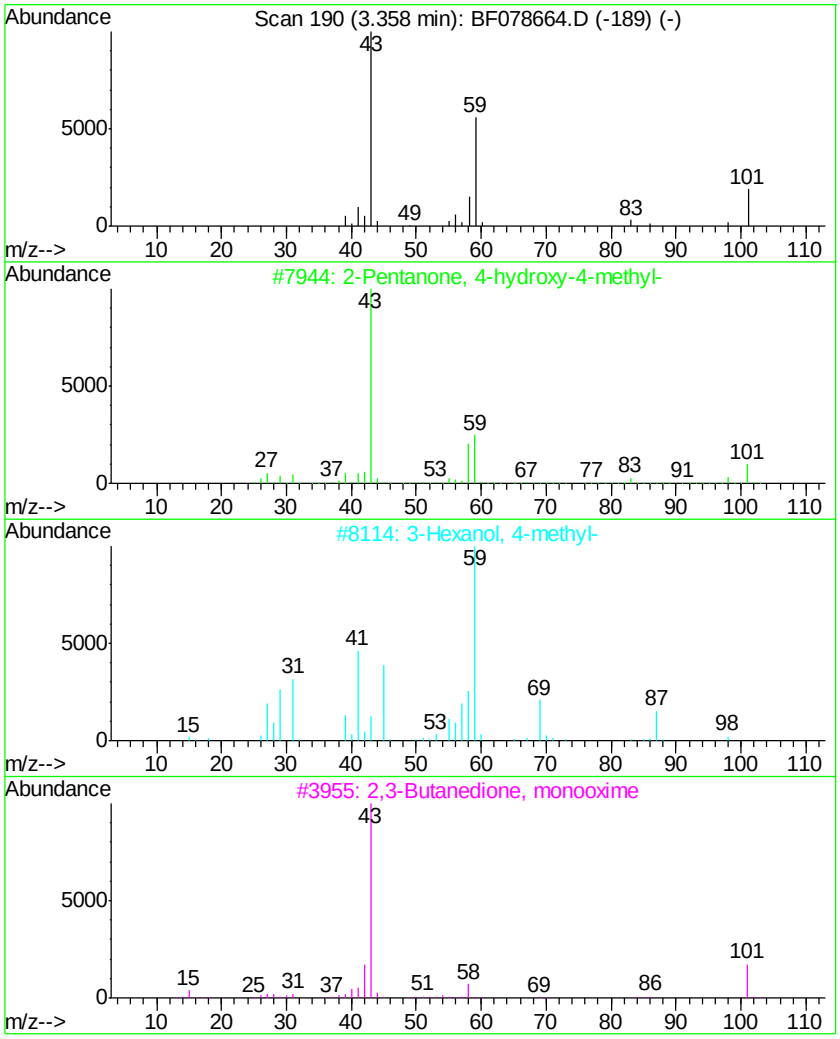
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

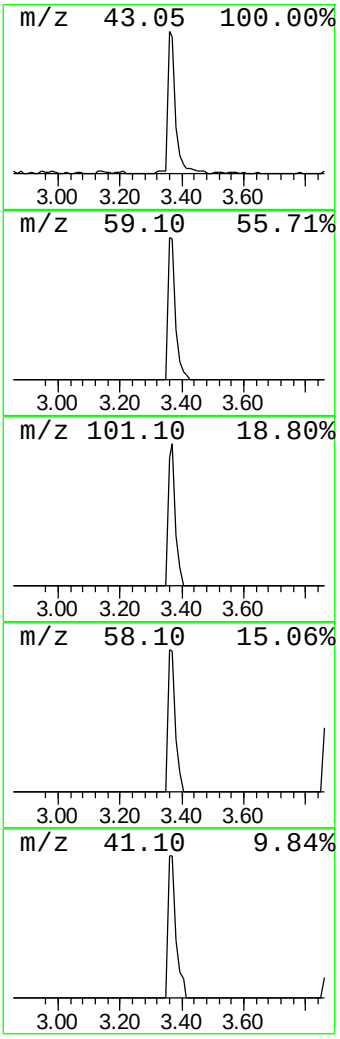
**********

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.36 | 9.32 ng | 98255 | 1,4-Dichlorobenzene-d4 | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 40 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 27 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 9 |
| 5 | 2,3-Butanediol, 2,3-dimethyl- | 118 | C6H14O2 | 000076-09-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

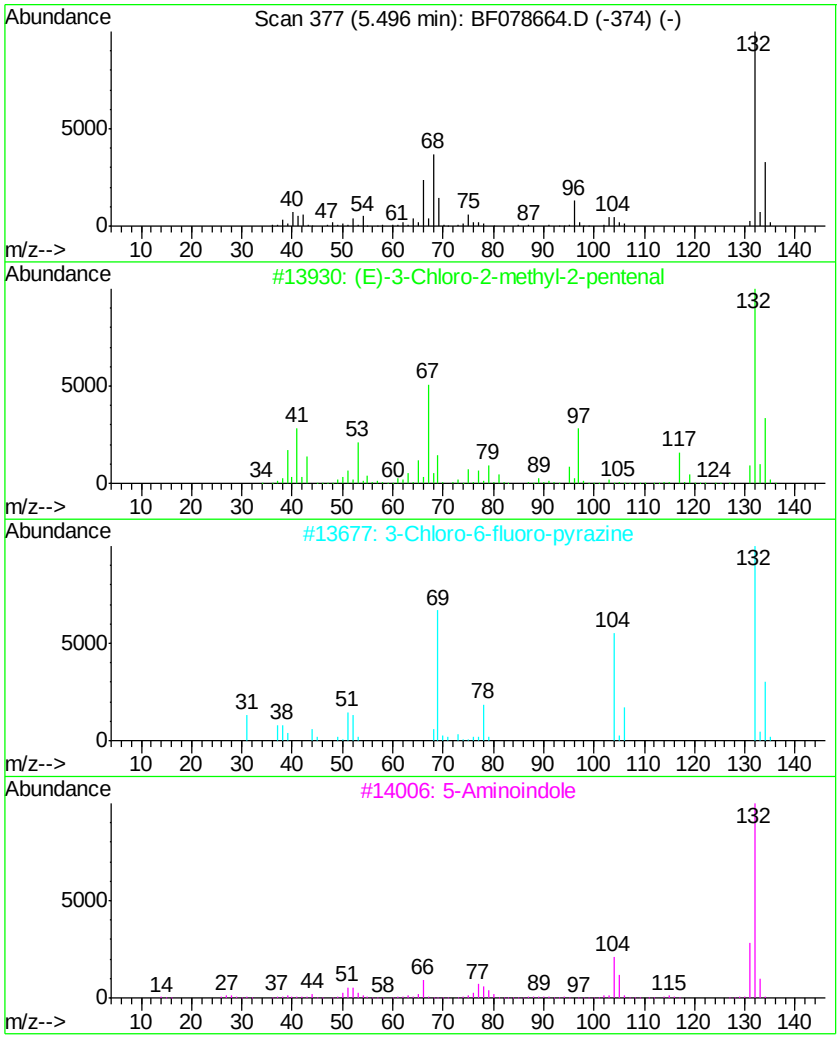
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

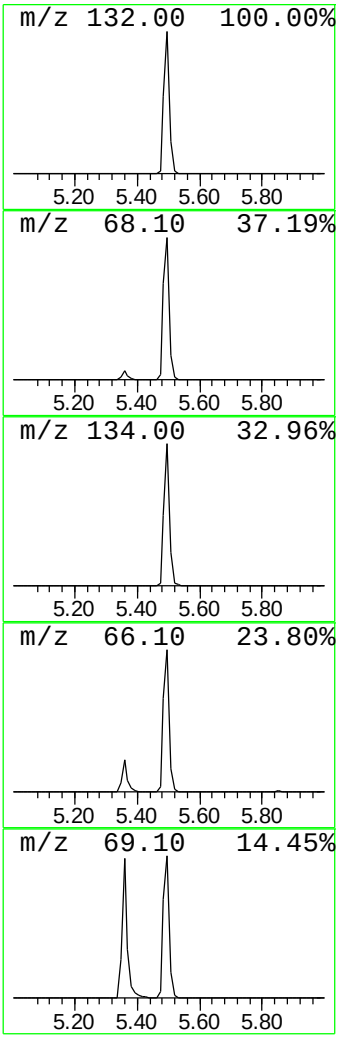
**********

Peak Number 4 unknown5.50 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.50 | 73.51 ng | 774832 | 1,4-Dichlorobenzene-d4 | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 35 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

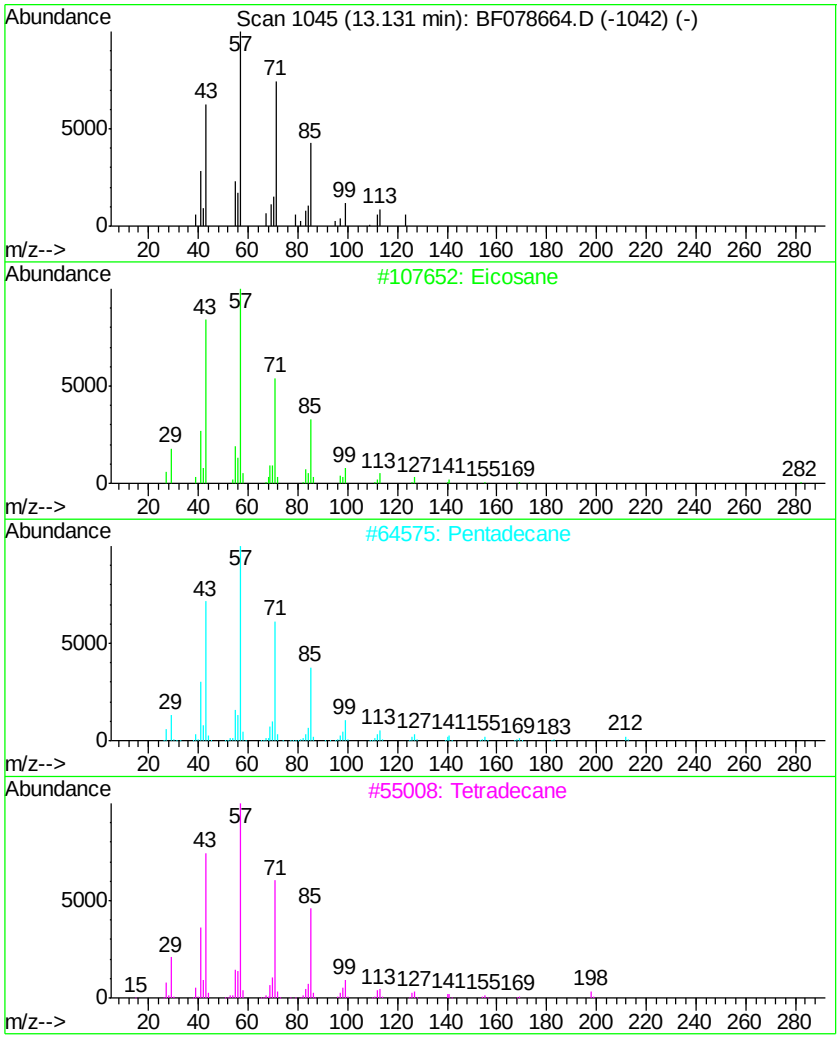
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

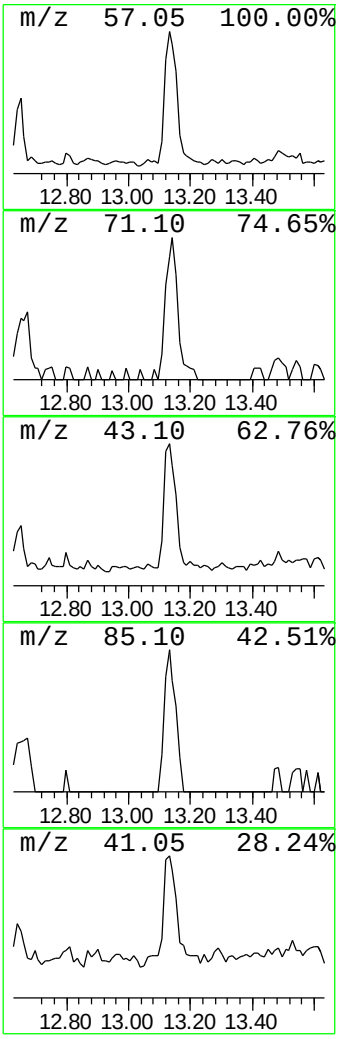
**********

Peak Number 6 Eicosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.13 | 3.26 ng | 65816 | Phenanthrene-d10 | 13.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 83 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 83 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

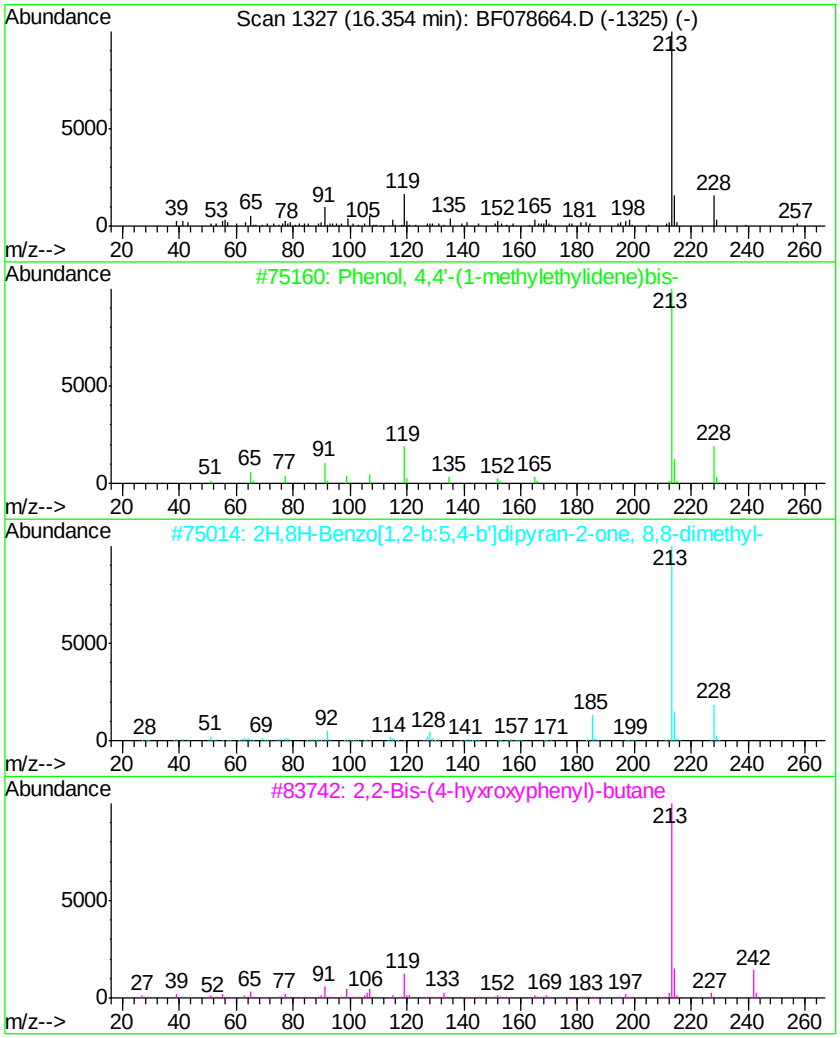
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

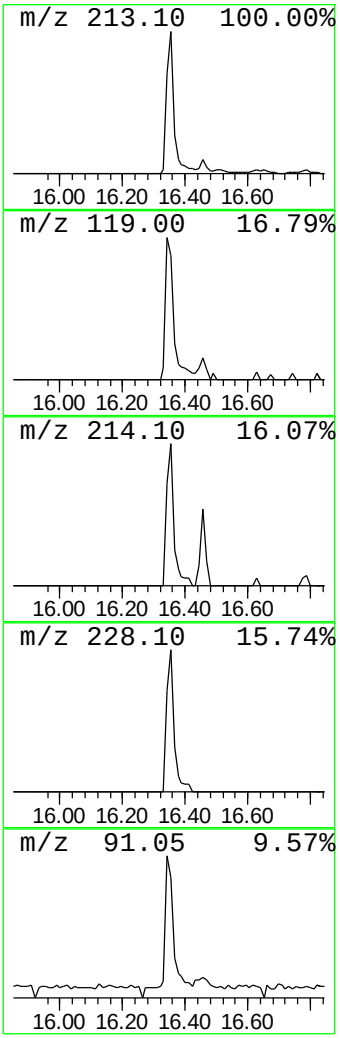
**********

Peak Number 7 Phenol, 4,4'-(1-methylethyl... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.35 | 5.14 ng | 172131 | Chrysene-d12 | 17.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-(1-methylethylidene... | 228 | C15H16O2 | 000080-05-7 | 98 |
| 2 | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228 | C14H12O3 | 000553-19-5 | 72 |
| 3 | 2,2-Bis-(4-hyxroxyphenyl)-butane | 242 | C16H18O2 | 000077-40-7 | 64 |
| 4 | 2-Hydroxy-4-phenyl-6-acetonylpyr... | 228 | C13H12N2O2 | 050324-22-6 | 59 |
| 5 | Carbanilic acid, p-phenyl- | 213 | C13H11NO2 | 004474-53-7 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

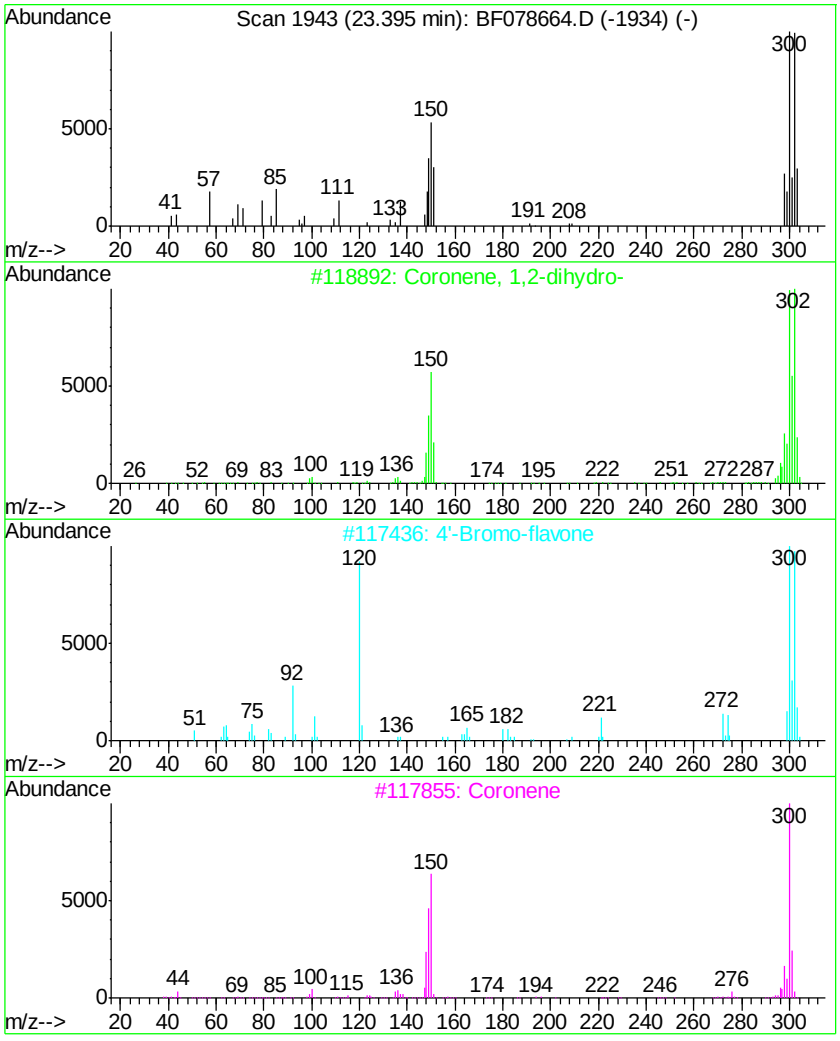
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

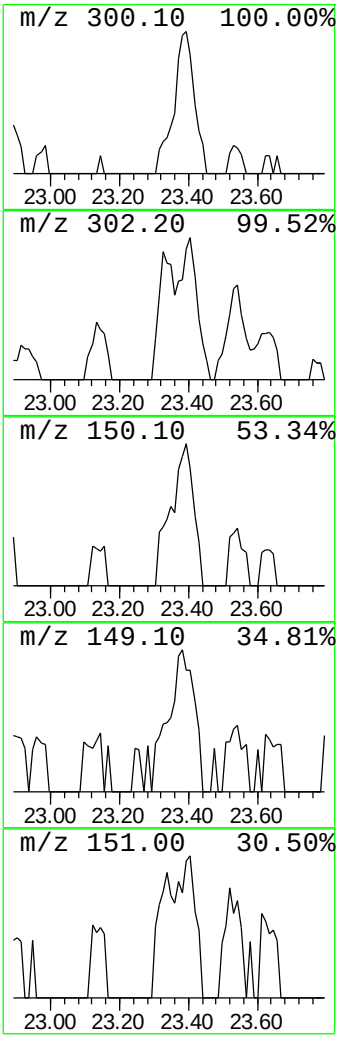
**********

Peak Number 10 unknown23.39 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.39 | 2.99 ng | 63159 | Perylene-d12 | 19.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Coronene, 1,2-dihydro- | 302 | C24H14 | 107716-56-3 | 49 |
| 2 | 4'-Bromo-flavone | 300 | C15H9BrO2 | 020525-20-6 | 47 |
| 3 | Coronene | 300 | C24H12 | 000191-07-1 | 43 |
| 4 | 3,4:8,9-Dibenzopyrene | 302 | C24H14 | 000189-64-0 | 43 |
| 5 | 1,2:4,5-Dibenzopyrene | 302 | C24H14 | 000192-65-4 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042015\
Data File : BF078664.D
Acq On : 21 Apr 2015 3:19
Operator : TP/IZ
Sample : G1855-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB12B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.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... | 3.36 | 9.3 | ng | 98255 | 1 | 5.86 | 210811 | 20.0 |
| unknown5.50 | 5.50 | 73.5 | ng | 774832 | 1 | 5.86 | 210811 | 20.0 |
| Eicosane | 13.13 | 3.3 | ng | 65816 | 4 | 13.93 | 403984 | 20.0 |
| Phenol, 4,4'-(1-m... | 16.35 | 5.1 | ng | 172131 | 5 | 17.79 | 670256 | 20.0 |
| unknown23.39 | 23.39 | 3.0 | ng | 63159 | 6 | 19.46 | 421932 | 20.0 |