LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122315\
Data File : BM003727.D
Acq On : 23 Dec 2015 02:43
Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

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_M\METHODS\8270-BM120915.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.810 | 284 | 293 | 304 | rBV | 218824 | 303900 | 14.95% | 2.274% |
| 2 | 5.281 | 367 | 373 | 383 | rBV | 723121 | 1033173 | 50.83% | 7.730% |
| 3 | 6.869 | 636 | 643 | 659 | rBV | 629384 | 958942 | 47.18% | 7.174% |
| 4 | 7.228 | 697 | 704 | 712 | rBV | 778713 | 1214365 | 59.75% | 9.085% |
| 5 | 7.692 | 777 | 783 | 789 | rBB | 147792 | 226115 | 11.12% | 1.692% |
| 6 | 8.010 | 830 | 837 | 845 | rBB | 617726 | 993854 | 48.90% | 7.435% |
| 7 | 8.851 | 973 | 980 | 992 | rBB | 456847 | 728685 | 35.85% | 5.452% |
| 8 | 10.480 | 1250 | 1257 | 1261 | rBV | 189395 | 309972 | 15.25% | 2.319% |
| 9 | 10.527 | 1261 | 1265 | 1275 | rVB | 301436 | 487375 | 23.98% | 3.646% |
| 10 | 12.151 | 1535 | 1541 | 1547 | rBB | 48803 | 74560 | 3.67% | 0.558% |
| 11 | 12.369 | 1574 | 1578 | 1584 | rBB | 15477 | 24276 | 1.19% | 0.182% |
| 12 | 12.963 | 1672 | 1679 | 1690 | rBB | 1118279 | 1671880 | 82.26% | 12.508% |
| 13 | 14.345 | 1908 | 1914 | 1920 | rBV2 | 245396 | 357971 | 17.61% | 2.678% |
| 14 | 14.410 | 1920 | 1925 | 1930 | rVB | 41422 | 56659 | 2.79% | 0.424% |
| 15 | 14.745 | 1977 | 1982 | 1990 | rBB | 35350 | 48811 | 2.40% | 0.365% |
| 16 | 15.398 | 2088 | 2093 | 2098 | rBB | 41173 | 56914 | 2.80% | 0.426% |
| 17 | 15.839 | 2162 | 2168 | 2174 | rBV | 727670 | 992764 | 48.84% | 7.427% |
| 18 | 15.904 | 2174 | 2179 | 2184 | rVB | 21471 | 31482 | 1.55% | 0.236% |
| 19 | 17.092 | 2375 | 2381 | 2385 | rBV | 288617 | 397849 | 19.57% | 2.976% |
| 20 | 17.133 | 2385 | 2388 | 2394 | rVB | 95983 | 125175 | 6.16% | 0.936% |
| 21 | 17.198 | 2394 | 2399 | 2408 | rBV | 64519 | 93955 | 4.62% | 0.703% |
| 22 | 17.286 | 2408 | 2414 | 2421 | rVB | 47217 | 64328 | 3.16% | 0.481% |
| 23 | 17.468 | 2440 | 2445 | 2449 | rBV | 99848 | 144589 | 7.11% | 1.082% |
| 24 | 17.945 | 2522 | 2526 | 2534 | rBB | 15107 | 20884 | 1.03% | 0.156% |
| 25 | 19.727 | 2824 | 2829 | 2834 | rBV | 1601734 | 2032521 | 100.00% | 15.206% |
| 26 | 21.291 | 3090 | 3095 | 3103 | rVB | 358772 | 449566 | 22.12% | 3.363% |
| 27 | 23.532 | 3468 | 3476 | 3484 | rBV | 254701 | 465939 | 22.92% | 3.486% |

Sum of corrected areas: 13366504

LSC Report - Integrated Chromatogram

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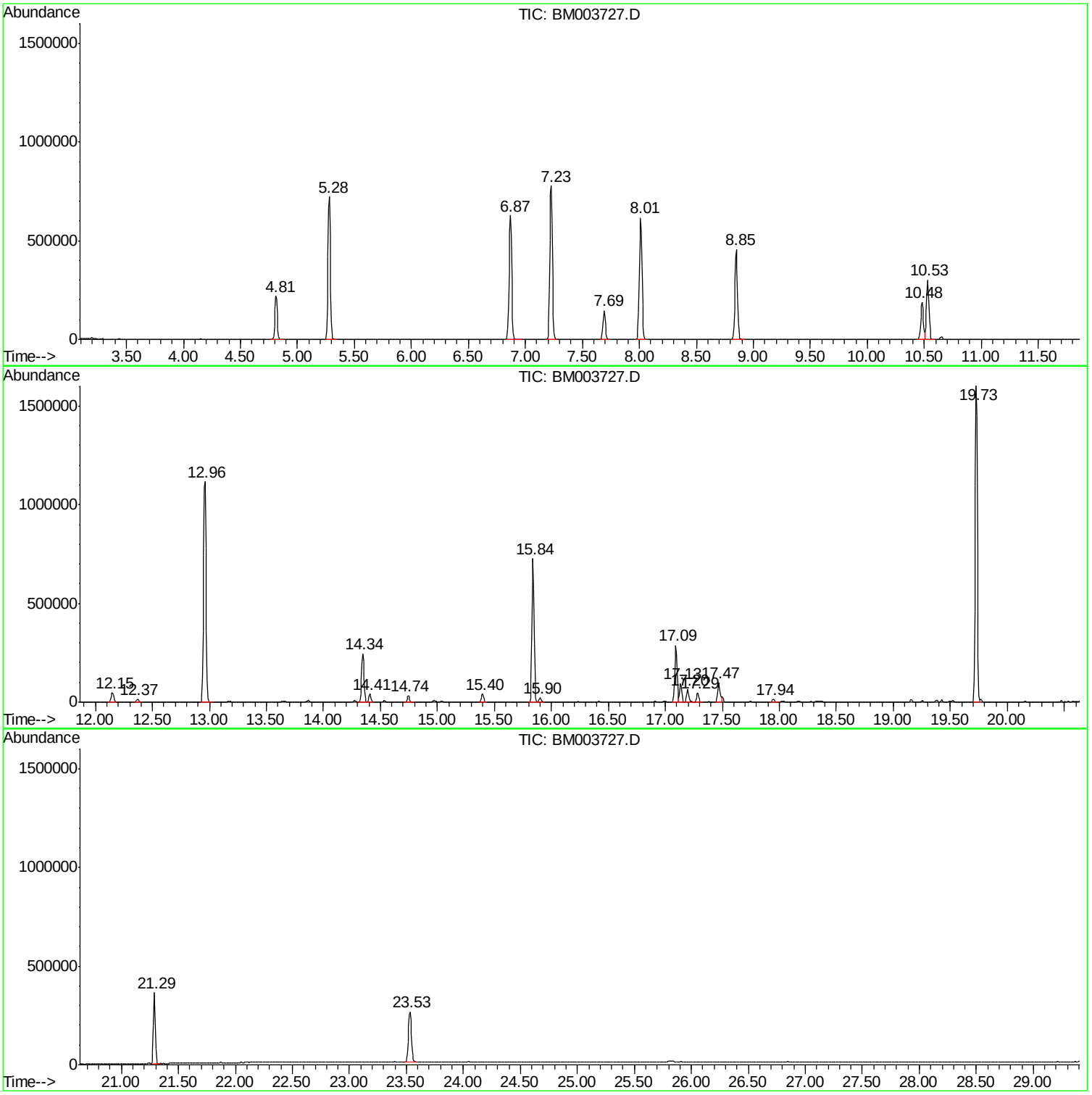
Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.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 M\DATA\BM122315\
Data File : BM003727.D
Acq On : 23 Dec 2015 02:43
Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.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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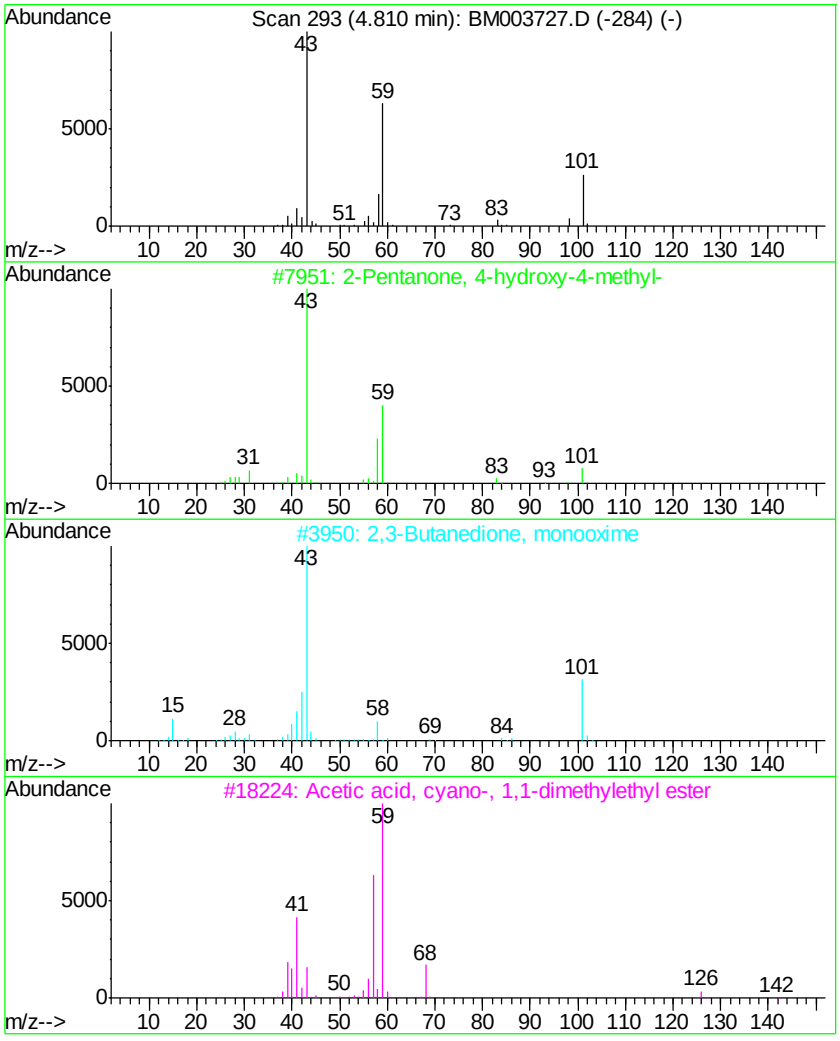
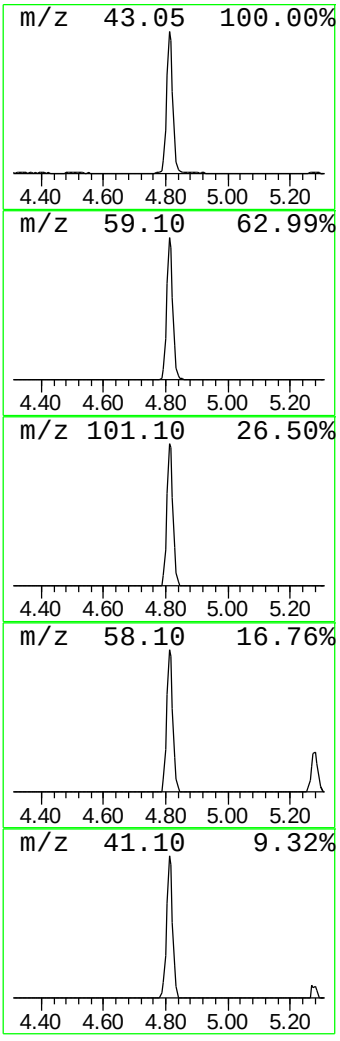
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.81 | 26.88 ng | 303900 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM122315\
Data File : BM003727.D
Acq On : 23 Dec 2015 02:43
Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.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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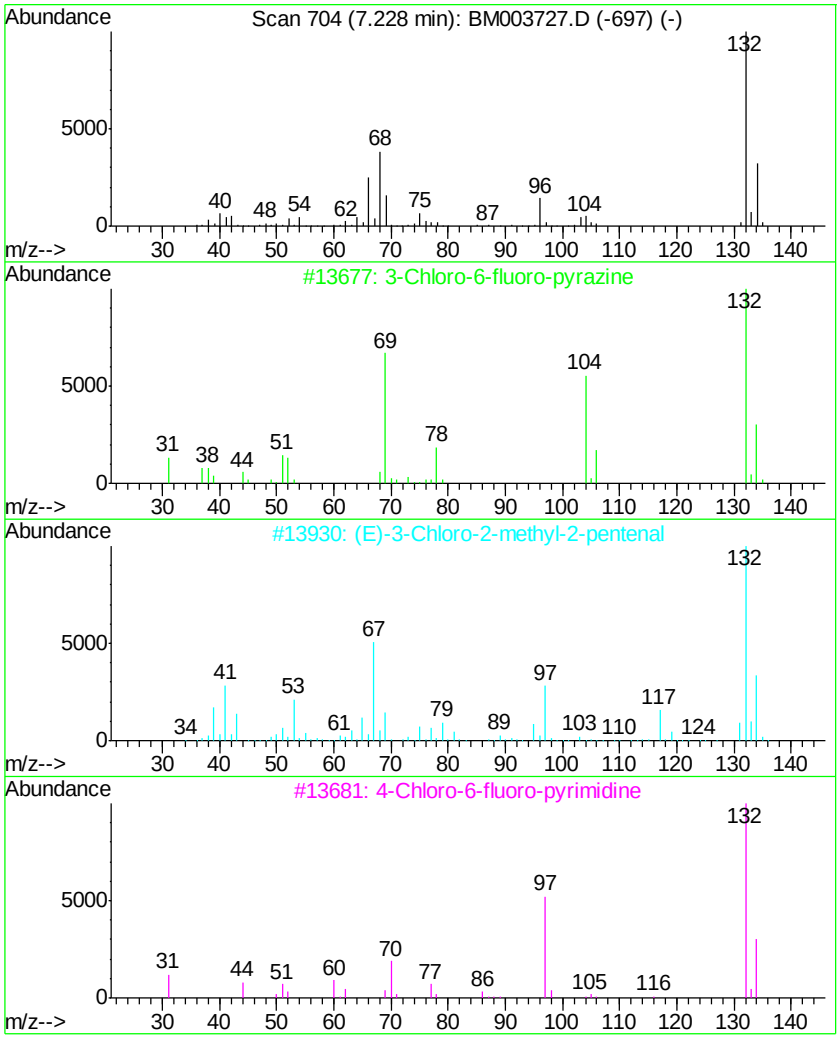
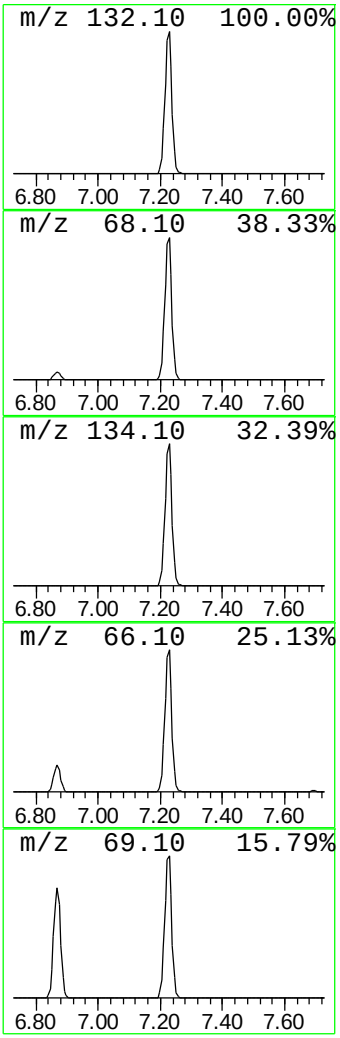
Peak Number 2 unknown7.23 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.23 | 107.41 ng | 1214370 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |



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Data File : BM003727.D
Acq On : 23 Dec 2015 02:43
Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.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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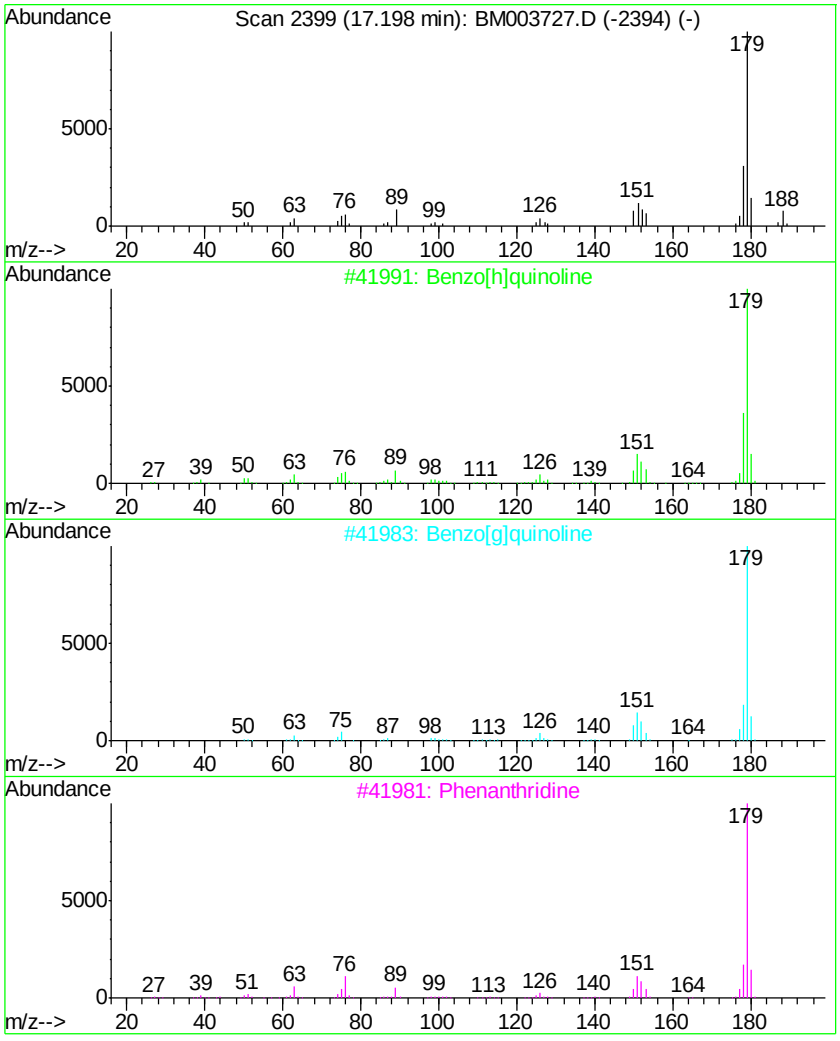
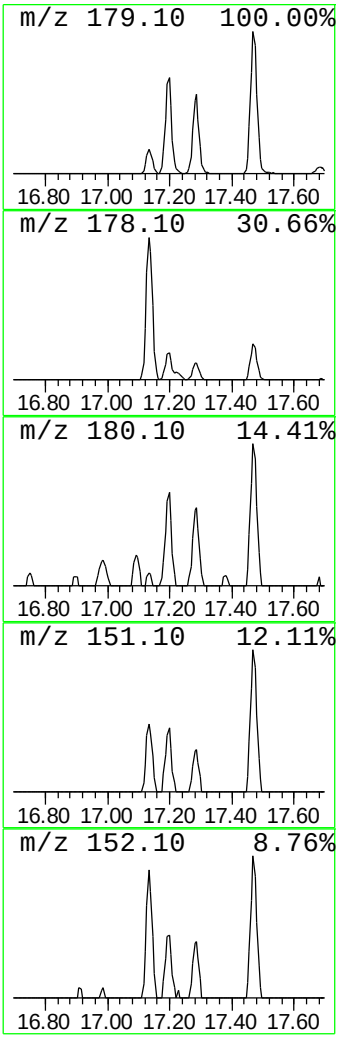
Peak Number 4 Benzo[h]quinoline Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.20 | 4.72 ng | 93955 | Phenanthrene-d10 | 17.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[h]quinoline | 179 | C13H9N | 000230-27-3 | 97 |
| 2 | Benzo[g]quinoline | 179 | C13H9N | 000260-36-6 | 95 |
| 3 | Phenanthridine | 179 | C13H9N | 000229-87-8 | 93 |
| 4 | Benzo[h]isoquinoline | 179 | C13H9N | 000229-71-0 | 91 |
| 5 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 91 |



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Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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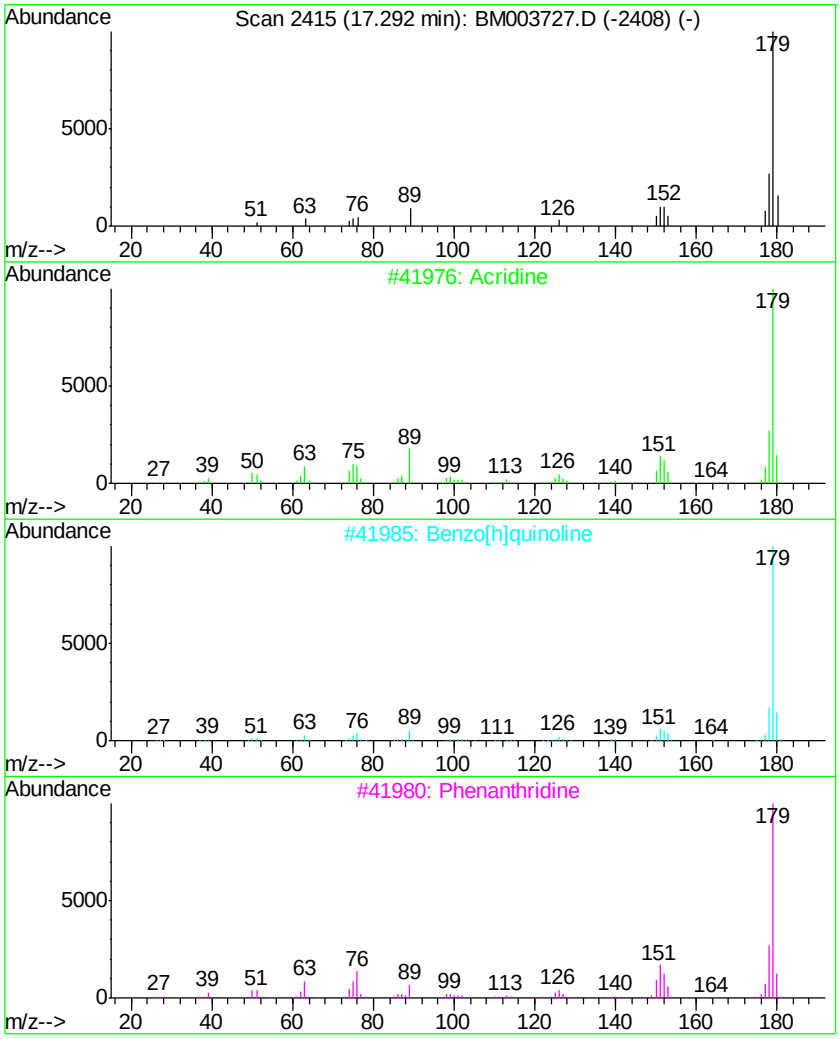
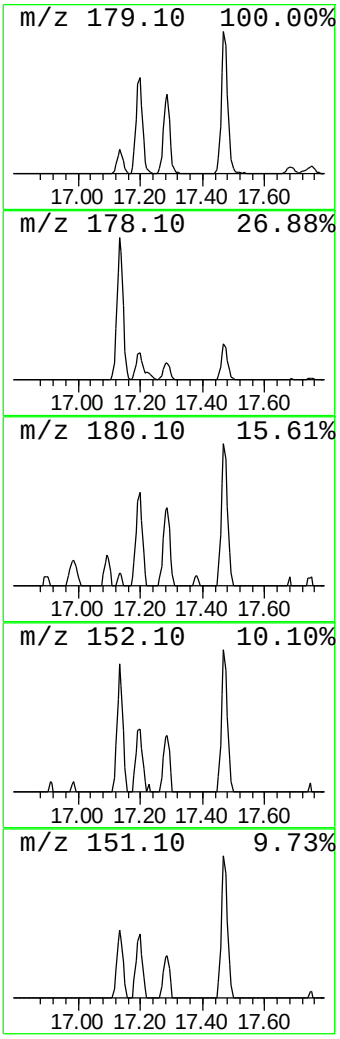
Peak Number 5 Acridine Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.29 | 3.23 ng | 64328 | Phenanthrene-d10 | 17.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acridine | 179 | C13H9N | 000260-94-6 | 96 |
| 2 | Benzo[h]quinoline | 179 | C13H9N | 000230-27-3 | 95 |
| 3 | Phenanthridine | 179 | C13H9N | 000229-87-8 | 94 |
| 4 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 90 |
| 5 | 9H-Fluoren-9-imine | 179 | C13H9N | 004440-33-9 | 90 |



Tentatively Identified Compound (LSC) summary

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Operator : UM/SJ
Sample : G4912-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** STOCKPILE-2(0-2)

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM120915.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.81 | 26.9 | ng | 303900 | 1 | 7.69 | 226115 | 20.0 |
| unknown7.23 | 7.23 | 107.4 | ng | 1214370 | 1 | 7.69 | 226115 | 20.0 |
| Benzo[h]quinoline | 17.20 | 4.7 | ng | 93955 | 4 | 17.09 | 397849 | 20.0 |
| Acridine | 17.29 | 3.2 | ng | 64328 | 4 | 17.09 | 397849 | 20.0 |