LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

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-BF043015.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 | 1.495 | 24 | 27 | 30 | rVB | 3032560 | 3201735 | 80.93% | 11.740% |
| 2 | 1.644 | 37 | 40 | 49 | rVB | 139727 | 273529 | 6.91% | 1.003% |
| 3 | 1.770 | 49 | 51 | 53 | rVV | 111918 | 160782 | 4.06% | 0.590% |
| 4 | 1.815 | 53 | 55 | 60 | rVV | 109786 | 176716 | 4.47% | 0.648% |
| 5 | 1.895 | 60 | 62 | 94 | rVB | 2247879 | 3956190 | 100.00% | 14.506% |
| 6 | 5.153 | 345 | 347 | 354 | rVB | 59307 | 71539 | 1.81% | 0.262% |
| 7 | 5.644 | 388 | 390 | 393 | rBV | 737186 | 714665 | 18.06% | 2.620% |
| 8 | 6.902 | 497 | 500 | 502 | rBV | 587092 | 771123 | 19.49% | 2.827% |
| 9 | 7.062 | 511 | 514 | 516 | rBV | 579996 | 777237 | 19.65% | 2.850% |
| 10 | 7.347 | 537 | 539 | 541 | rVB | 504013 | 441771 | 11.17% | 1.620% |
| 11 | 7.530 | 553 | 555 | 558 | rBV | 585358 | 592863 | 14.99% | 2.174% |
| 12 | 8.033 | 597 | 599 | 602 | rBV | 519448 | 462888 | 11.70% | 1.697% |
| 13 | 8.925 | 675 | 677 | 679 | rBV | 712975 | 634601 | 16.04% | 2.327% |
| 14 | 10.113 | 779 | 781 | 785 | rVB | 44284 | 41319 | 1.04% | 0.152% |
| 15 | 10.273 | 792 | 795 | 797 | rBV | 752430 | 977667 | 24.71% | 3.585% |
| 16 | 10.776 | 837 | 839 | 840 | rBV | 33853 | 41353 | 1.05% | 0.152% |
| 17 | 11.096 | 865 | 867 | 870 | rBV | 594407 | 692252 | 17.50% | 2.538% |
| 18 | 11.439 | 895 | 897 | 900 | rBV | 41030 | 54330 | 1.37% | 0.199% |
| 19 | 11.999 | 943 | 946 | 948 | rVB | 103130 | 101810 | 2.57% | 0.373% |
| 20 | 12.079 | 950 | 953 | 956 | rVV | 644135 | 615465 | 15.56% | 2.257% |
| 21 | 12.948 | 1026 | 1029 | 1030 | rBV | 802936 | 765632 | 19.35% | 2.807% |
| 22 | 12.971 | 1030 | 1031 | 1034 | rVV | 345446 | 452679 | 11.44% | 1.660% |
| 23 | 13.039 | 1034 | 1037 | 1039 | rVV | 113665 | 107147 | 2.71% | 0.393% |
| 24 | 13.245 | 1053 | 1055 | 1057 | rBV | 73537 | 83574 | 2.11% | 0.306% |
| 25 | 13.577 | 1080 | 1084 | 1085 | rBV | 69022 | 66549 | 1.68% | 0.244% |
| 26 | 13.611 | 1085 | 1087 | 1089 | rVB | 95722 | 88780 | 2.24% | 0.326% |
| 27 | 13.668 | 1089 | 1092 | 1094 | rBV2 | 38466 | 70649 | 1.79% | 0.259% |
| 28 | 13.714 | 1094 | 1096 | 1097 | rVV | 90101 | 115996 | 2.93% | 0.425% |
| 29 | 13.737 | 1097 | 1098 | 1101 | rVB | 42427 | 51145 | 1.29% | 0.188% |
| 30 | 13.977 | 1115 | 1119 | 1123 | rVB2 | 46747 | 101911 | 2.58% | 0.374% |
| 31 | 14.262 | 1141 | 1144 | 1146 | rBV | 51877 | 66027 | 1.67% | 0.242% |
| 32 | 14.308 | 1146 | 1148 | 1151 | rVV | 31647 | 52761 | 1.33% | 0.193% |
| 33 | 14.365 | 1151 | 1153 | 1156 | rVB2 | 45457 | 72691 | 1.84% | 0.267% |
| 34 | 14.457 | 1158 | 1161 | 1164 | rBV | 837256 | 805951 | 20.37% | 2.955% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

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-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.537 | 1166 | 1168 | 1170 | rBV2 | 39305 | 52046 | 1.32% | 0.191% |
| 36 | 14.639 | 1174 | 1177 | 1179 | rBV2 | 35015 | 62528 | 1.58% | 0.229% |
| 37 | 14.742 | 1182 | 1186 | 1188 | rVV | 580495 | 813027 | 20.55% | 2.981% |
| 38 | 14.811 | 1189 | 1192 | 1198 | rVV | 363463 | 614841 | 15.54% | 2.254% |
| 39 | 14.948 | 1201 | 1204 | 1206 | rVV | 881988 | 1186739 | 30.00% | 4.351% |
| 40 | 15.017 | 1206 | 1210 | 1212 | rVV3 | 33810 | 57555 | 1.45% | 0.211% |
| 41 | 15.131 | 1217 | 1220 | 1221 | rVV3 | 29739 | 59811 | 1.51% | 0.219% |
| 42 | 15.154 | 1221 | 1222 | 1224 | rVB | 58617 | 49536 | 1.25% | 0.182% |
| 43 | 15.234 | 1228 | 1229 | 1231 | rBV | 30344 | 42829 | 1.08% | 0.157% |
| 44 | 15.280 | 1231 | 1233 | 1235 | rBV | 82020 | 91997 | 2.33% | 0.337% |
| 45 | 15.394 | 1241 | 1243 | 1244 | rBV | 46183 | 44402 | 1.12% | 0.163% |
| 46 | 15.440 | 1244 | 1247 | 1248 | rVB | 27651 | 47062 | 1.19% | 0.173% |
| 47 | 15.565 | 1256 | 1258 | 1262 | rBV2 | 54775 | 95244 | 2.41% | 0.349% |
| 48 | 15.782 | 1275 | 1277 | 1280 | rVB | 71165 | 92152 | 2.33% | 0.338% |
| 49 | 15.931 | 1287 | 1290 | 1292 | rBV2 | 58375 | 119080 | 3.01% | 0.437% |
| 50 | 15.965 | 1292 | 1293 | 1296 | rVV2 | 64222 | 117712 | 2.98% | 0.432% |
| 51 | 16.045 | 1299 | 1300 | 1303 | rVV | 50707 | 82031 | 2.07% | 0.301% |
| 52 | 16.114 | 1303 | 1306 | 1311 | rVV3 | 126608 | 213759 | 5.40% | 0.784% |
| 53 | 16.251 | 1313 | 1318 | 1319 | rBV2 | 927400 | 1454553 | 36.77% | 5.333% |
| 54 | 16.285 | 1319 | 1321 | 1326 | rVB | 461088 | 595442 | 15.05% | 2.183% |
| 55 | 16.377 | 1327 | 1329 | 1331 | rVB2 | 35130 | 45133 | 1.14% | 0.165% |
| 56 | 16.548 | 1342 | 1344 | 1346 | rBV | 34097 | 42773 | 1.08% | 0.157% |
| 57 | 16.754 | 1359 | 1362 | 1364 | rBV | 69762 | 102653 | 2.59% | 0.376% |
| 58 | 16.800 | 1364 | 1366 | 1368 | rVB | 44538 | 49573 | 1.25% | 0.182% |
| 59 | 16.948 | 1374 | 1379 | 1383 | rBV5 | 48632 | 163395 | 4.13% | 0.599% |
| 60 | 17.154 | 1394 | 1397 | 1399 | rBV3 | 31643 | 54898 | 1.39% | 0.201% |
| 61 | 17.348 | 1412 | 1414 | 1419 | rBV4 | 26279 | 55258 | 1.40% | 0.203% |
| 62 | 17.565 | 1430 | 1433 | 1439 | rBV | 355332 | 799102 | 20.20% | 2.930% |
| 63 | 17.680 | 1442 | 1443 | 1446 | rVB | 58267 | 72310 | 1.83% | 0.265% |
| 64 | 17.886 | 1459 | 1461 | 1465 | rBV | 217847 | 299501 | 7.57% | 1.098% |
| 65 | 17.954 | 1465 | 1467 | 1470 | rBV | 297449 | 337085 | 8.52% | 1.236% |
| 66 | 18.023 | 1470 | 1473 | 1477 | rBV | 763588 | 1043993 | 26.39% | 3.828% |
| 67 | 18.606 | 1522 | 1524 | 1526 | rBV2 | 34678 | 44308 | 1.12% | 0.162% |
| 68 | 19.520 | 1601 | 1604 | 1610 | rVB2 | 148630 | 327136 | 8.27% | 1.199% |
| 69 | 19.966 | 1639 | 1643 | 1650 | rVB | 132217 | 282059 | 7.13% | 1.034% |

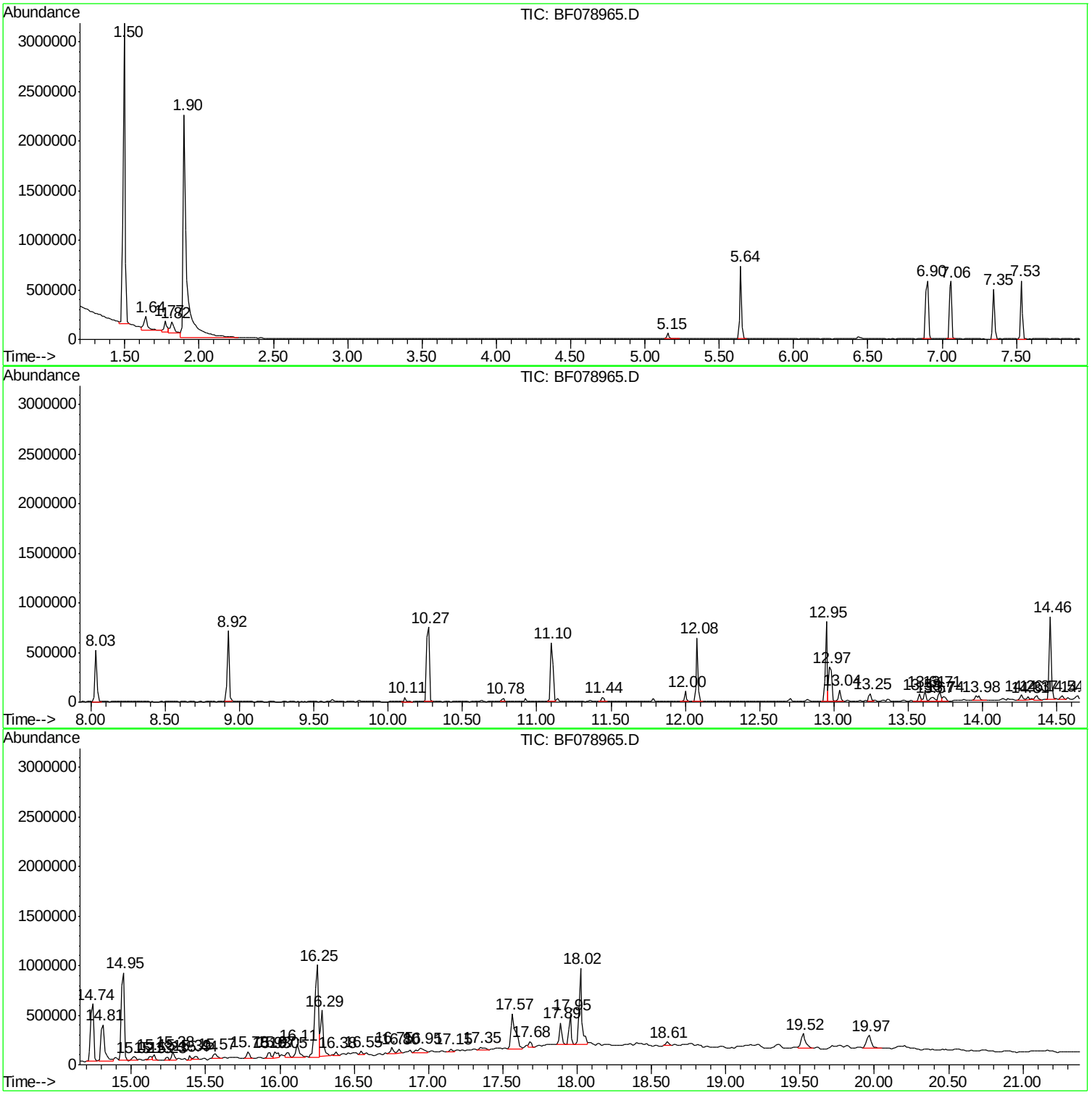
Sum of corrected areas: 27272850

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

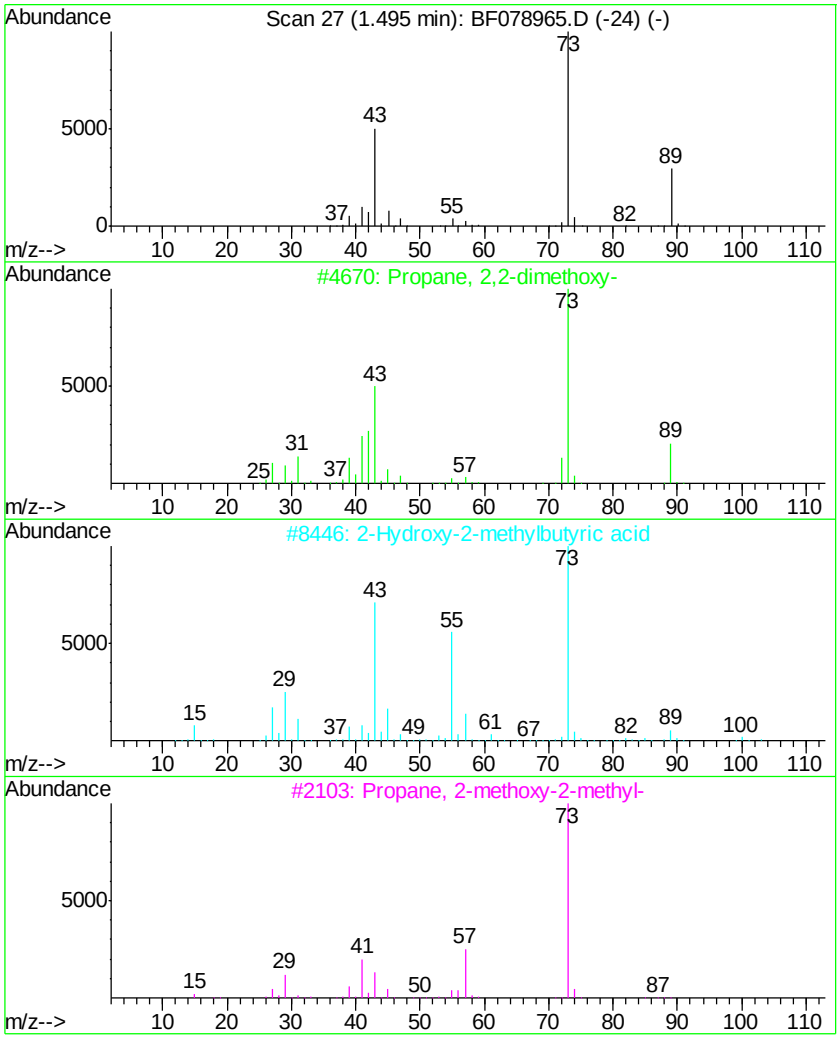
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

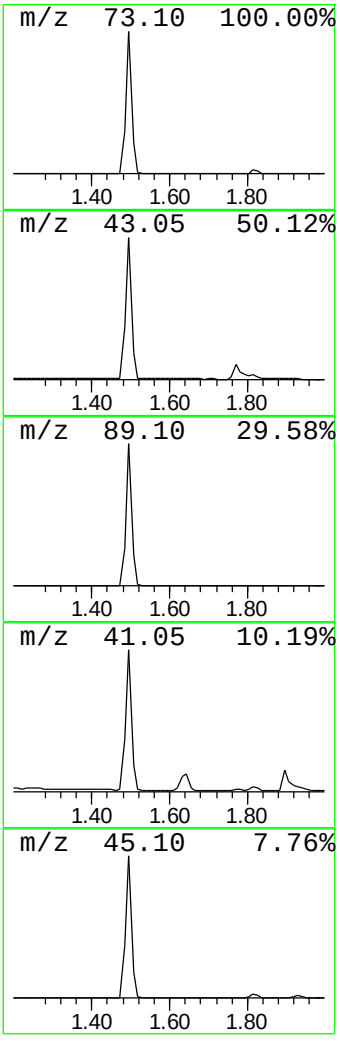
**********

Peak Number 1 unknown1.50 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.50 | 144.95 ng | 3201740 | 1,4-Dichlorobenzene-d4 | 7.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 38 |
| 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 | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9 |
| 5 | 1,3-Diaminoguanidine | 89 | CH7N5 | 004364-78-7 | 7 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

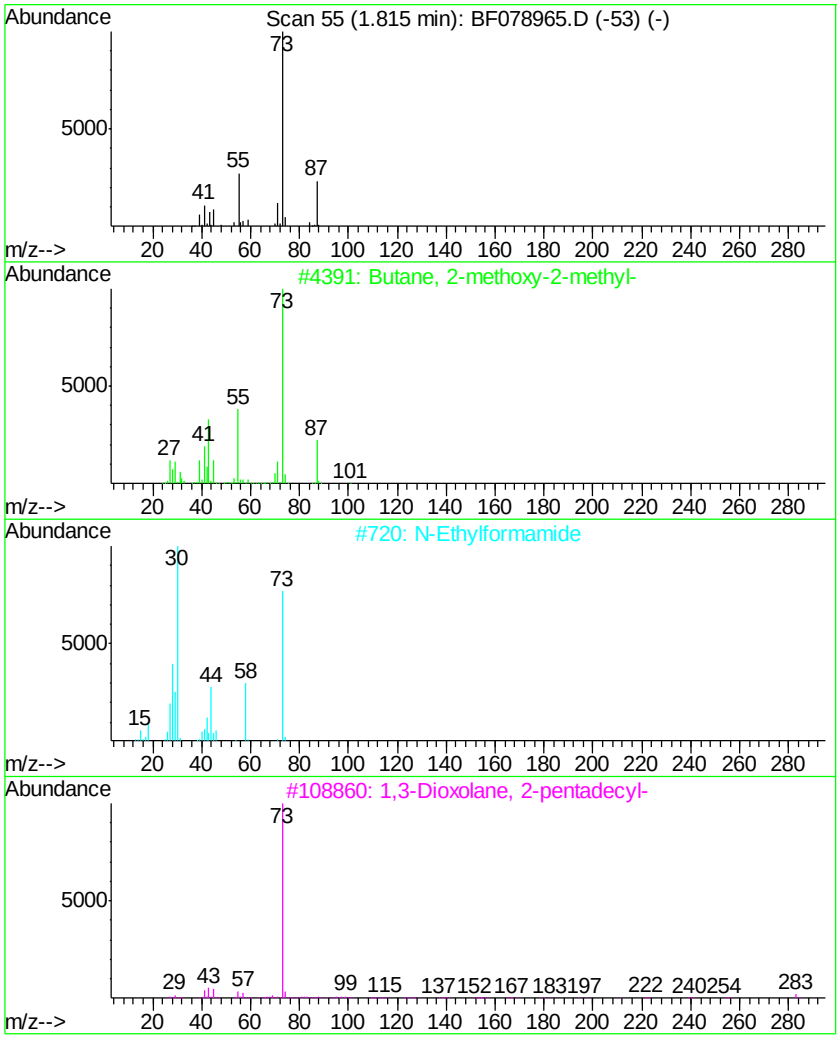
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

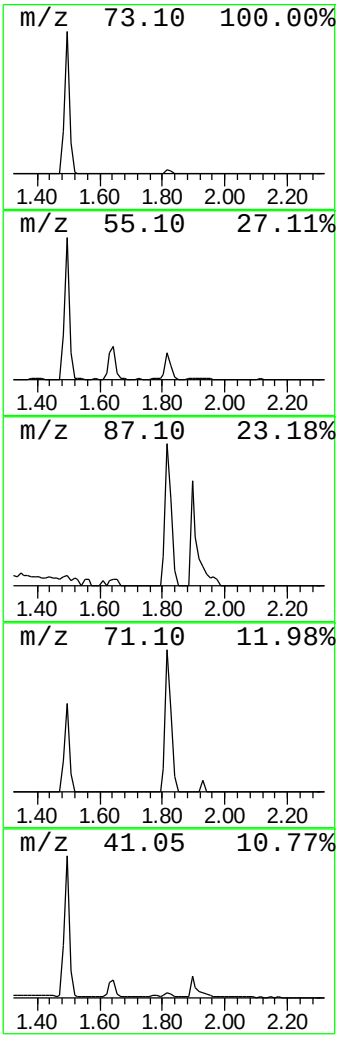
**********

Peak Number 4 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.82 | 8.00 ng | 176716 | 1,4-Dichlorobenzene-d4 | 7.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 17 |
| 3 | 1,3-Dioxolane, 2-pentadecyl- | 284 | C18H36O2 | 004360-57-0 | 12 |
| 4 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

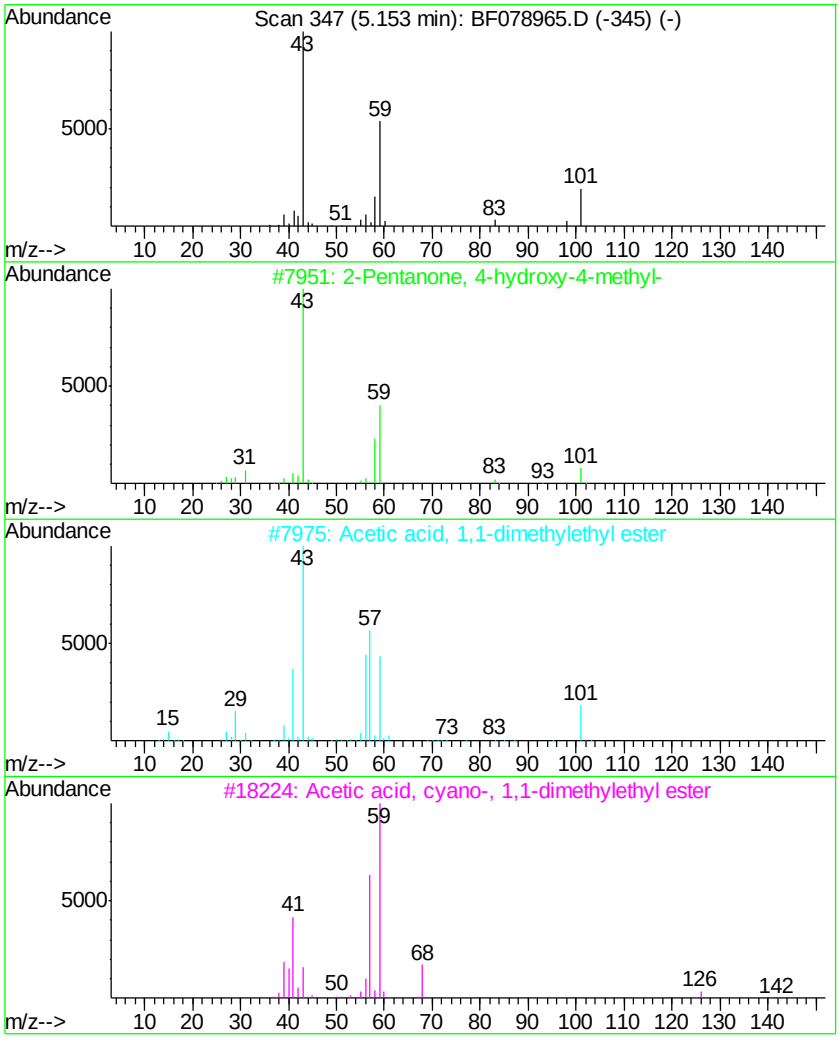
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

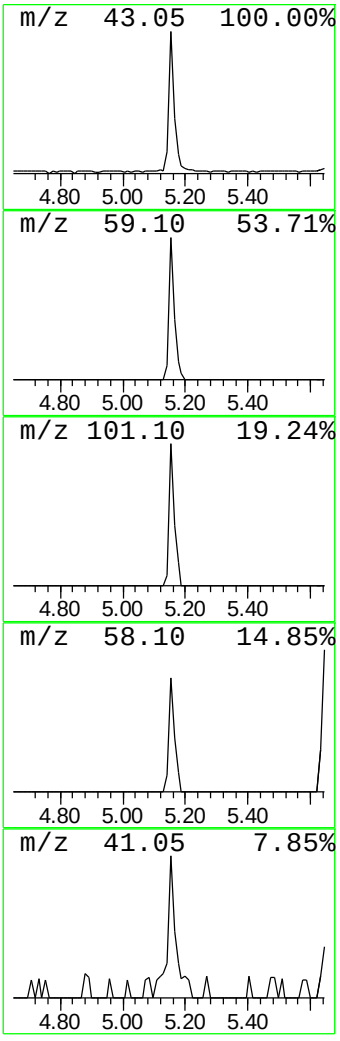
**********

Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.15 | 3.24 ng | 71539 | 1,4-Dichlorobenzene-d4 | 7.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 42 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | 1,2-Butanediol, (.+/-.)- | 90 | C4H10O2 | 026171-83-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

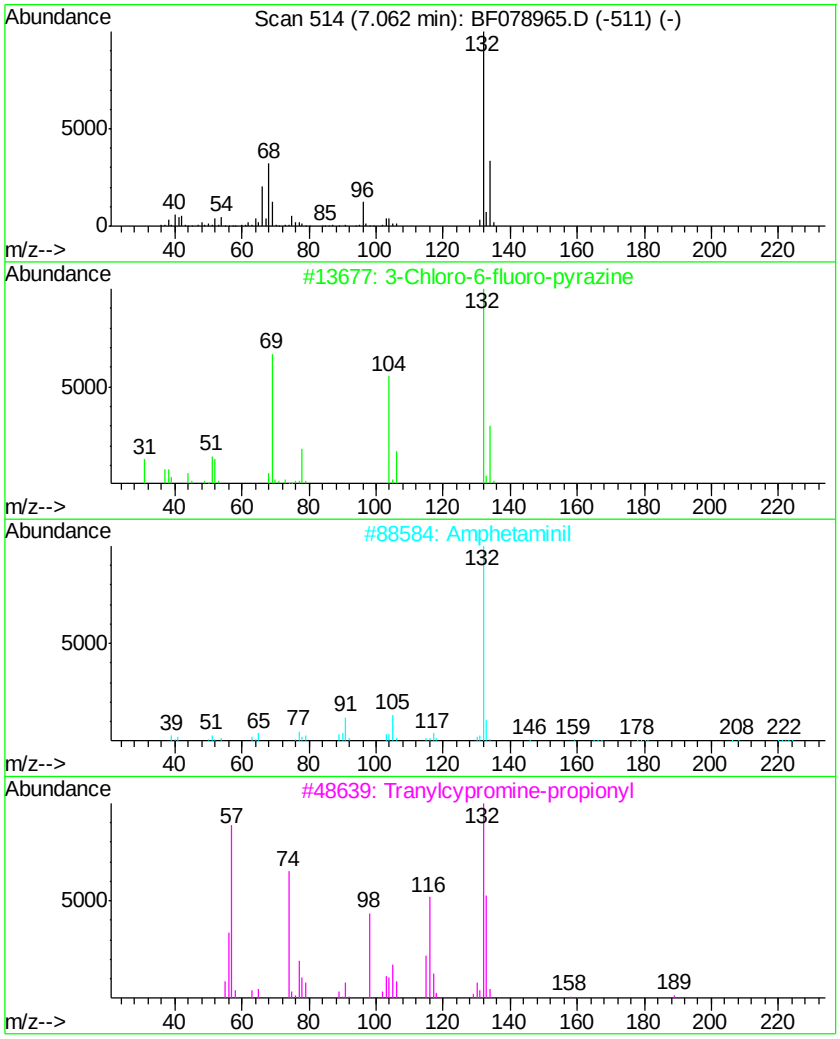
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

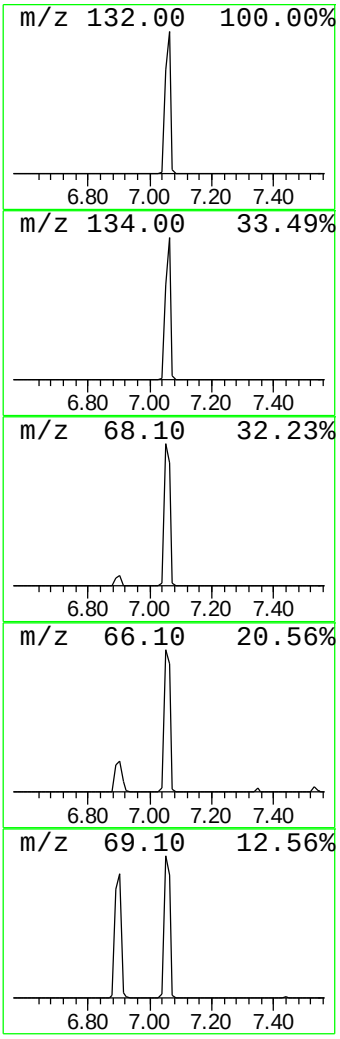
**********

Peak Number 7 unknown7.06 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.06 | 35.19 ng | 777237 | 1,4-Dichlorobenzene-d4 | 7.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

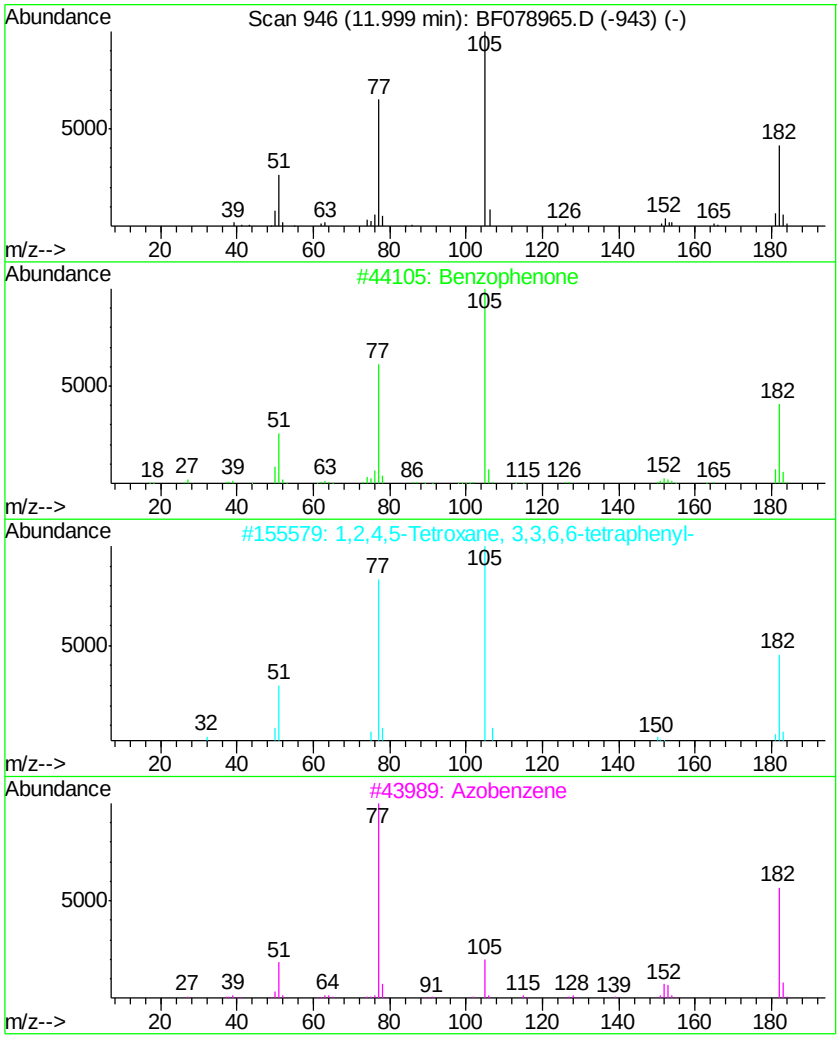
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

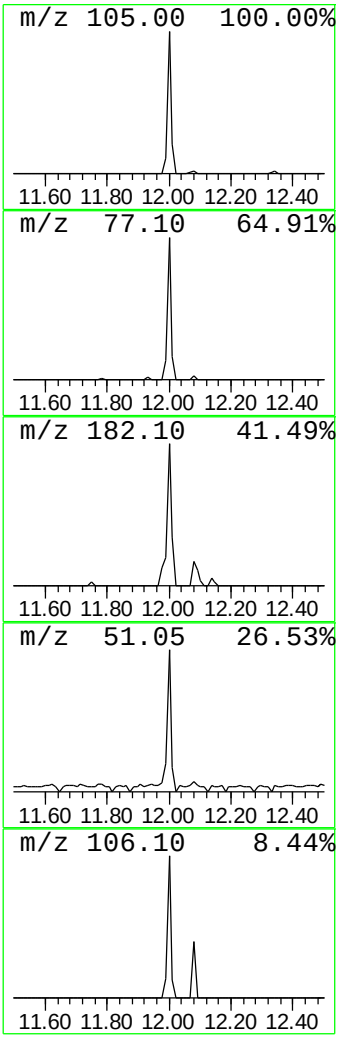
**********

Peak Number 9 Benzophenone Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 2.94 ng | 101810 | Acenaphthene-d10 | 11.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 97 |
| 2 | 1,2,4,5-Tetroxane, 3,3,6,6-tetra... | 396 | C26H20O4 | 016204-36-7 | 78 |
| 3 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 64 |
| 4 | Phenyl 4-pyridyl ketone | 183 | C12H9NO | 014548-46-0 | 58 |
| 5 | Benzoyl bromide | 184 | C7H5BrO | 000618-32-6 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

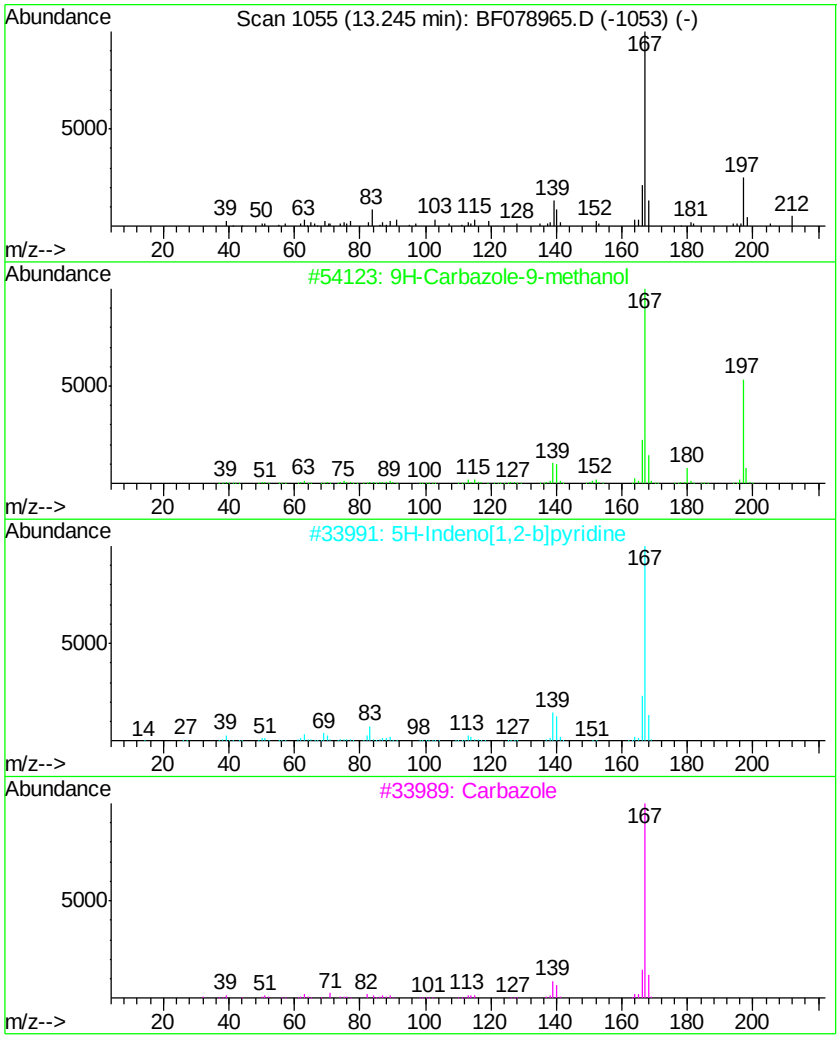
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

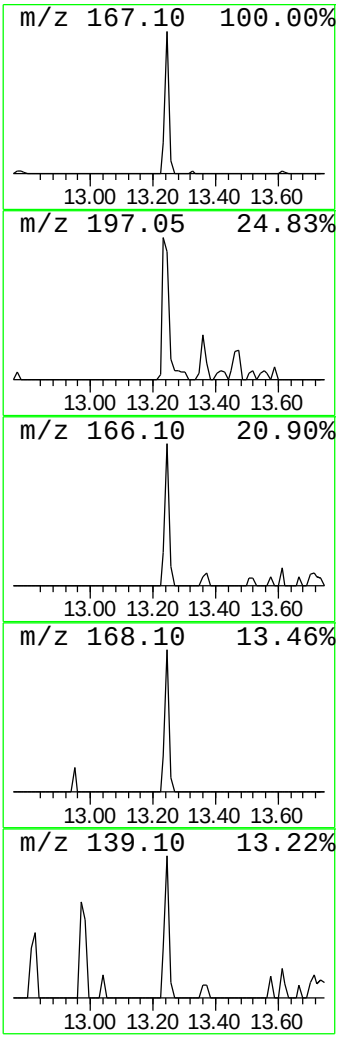
**********

Peak Number 10 9H-Carbazole-9-methanol Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.25 | 2.18 ng | 83574 | Phenanthrene-d10 | 12.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Carbazole-9-methanol | 197 | C13H11NO | 002409-36-1 | 90 |
| 2 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 76 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 76 |
| 4 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 64 |
| 5 | 4H-1,3,2-Dioxaborin, 2-ethyl-4-m... | 210 | C12H23BO2 | 074421-10-6 | 59 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

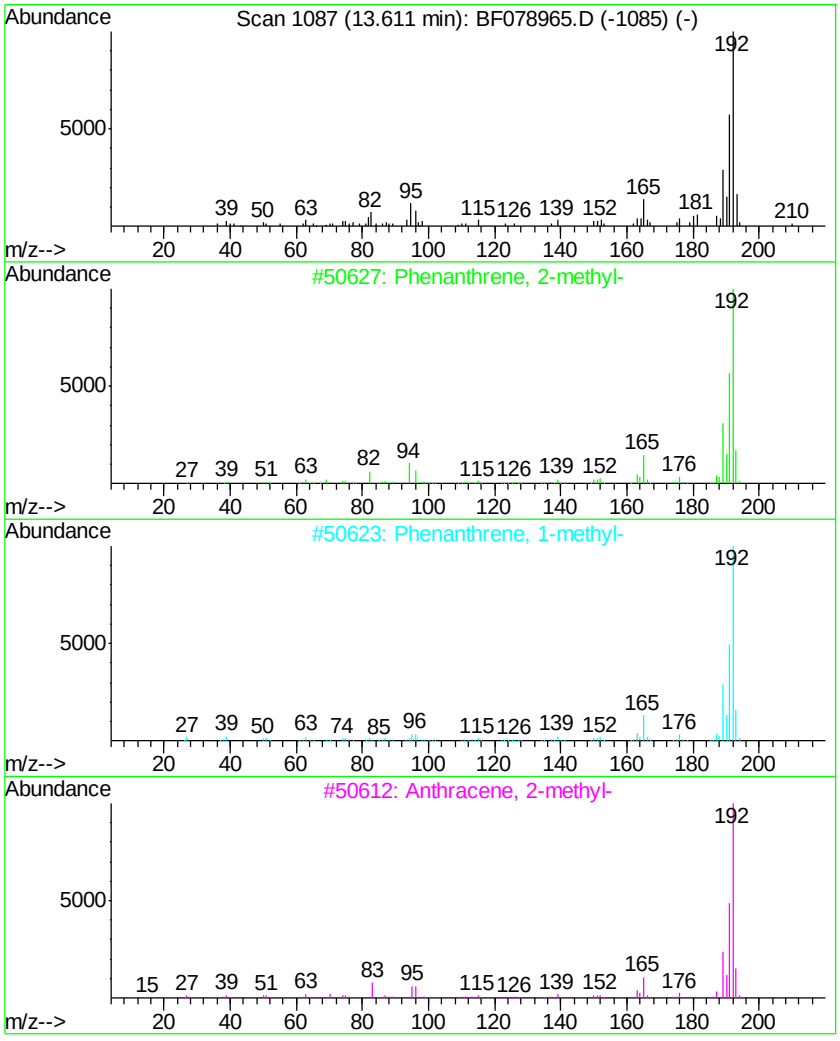
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

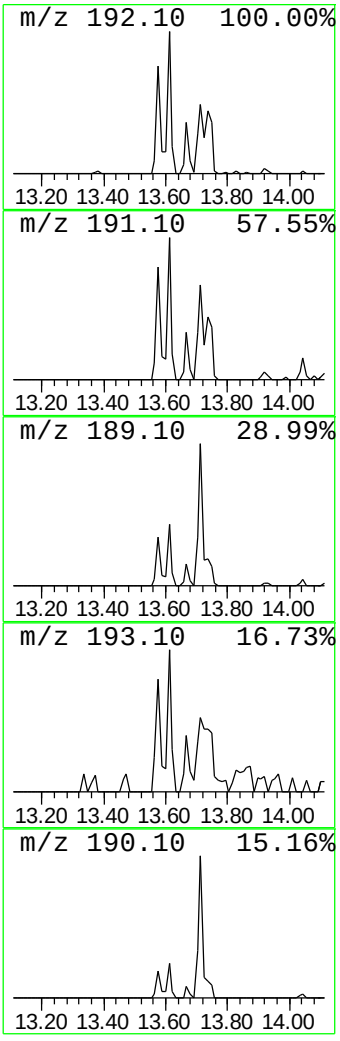
**********

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 2.32 ng | 88780 | Phenanthrene-d10 | 12.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

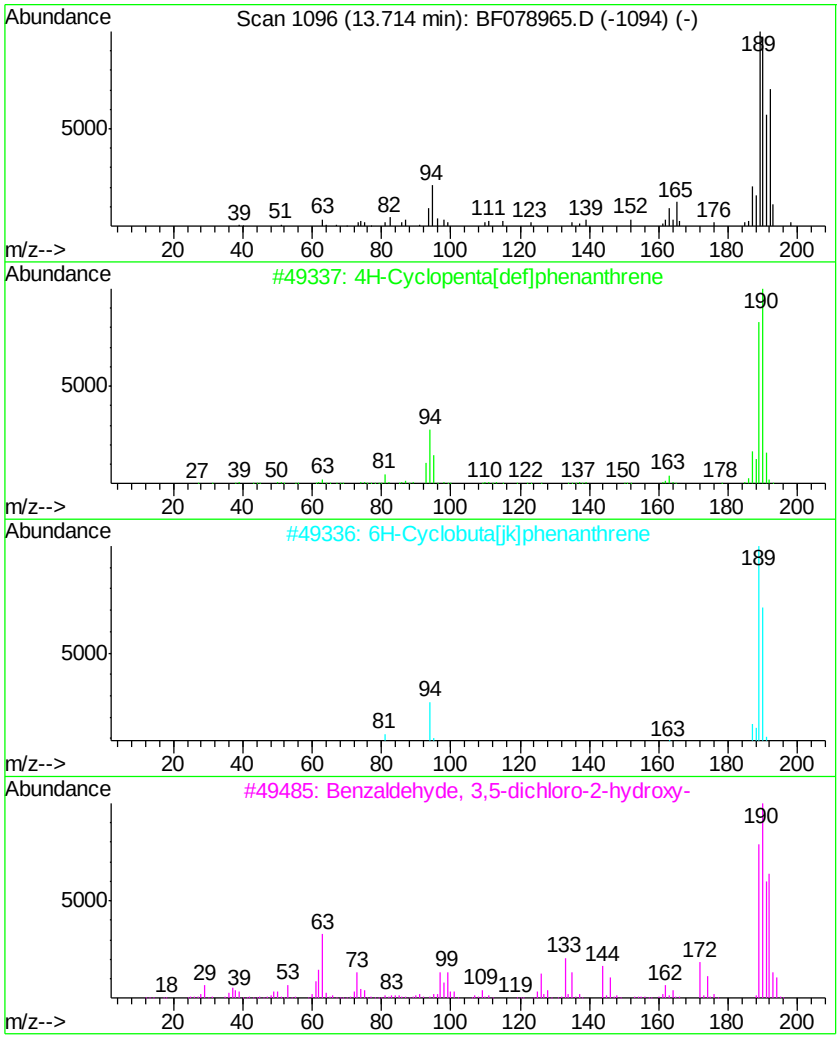
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

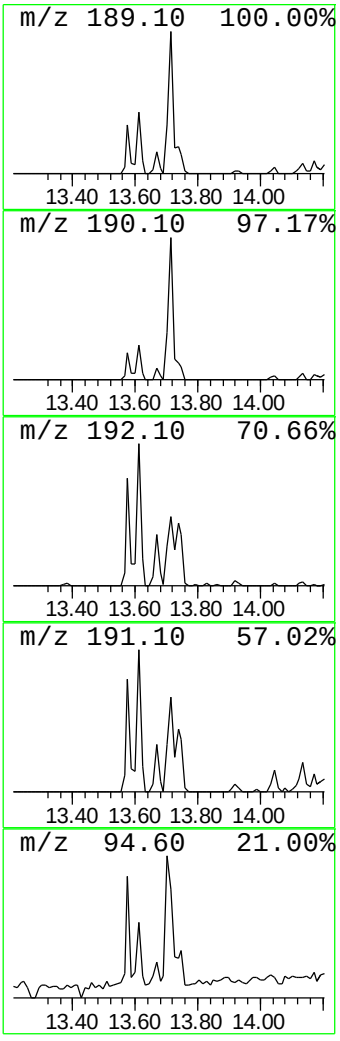
**********

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.71 | 3.03 ng | 115996 | Phenanthrene-d10 | 12.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 62 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 3 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 52 |
| 4 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 41 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

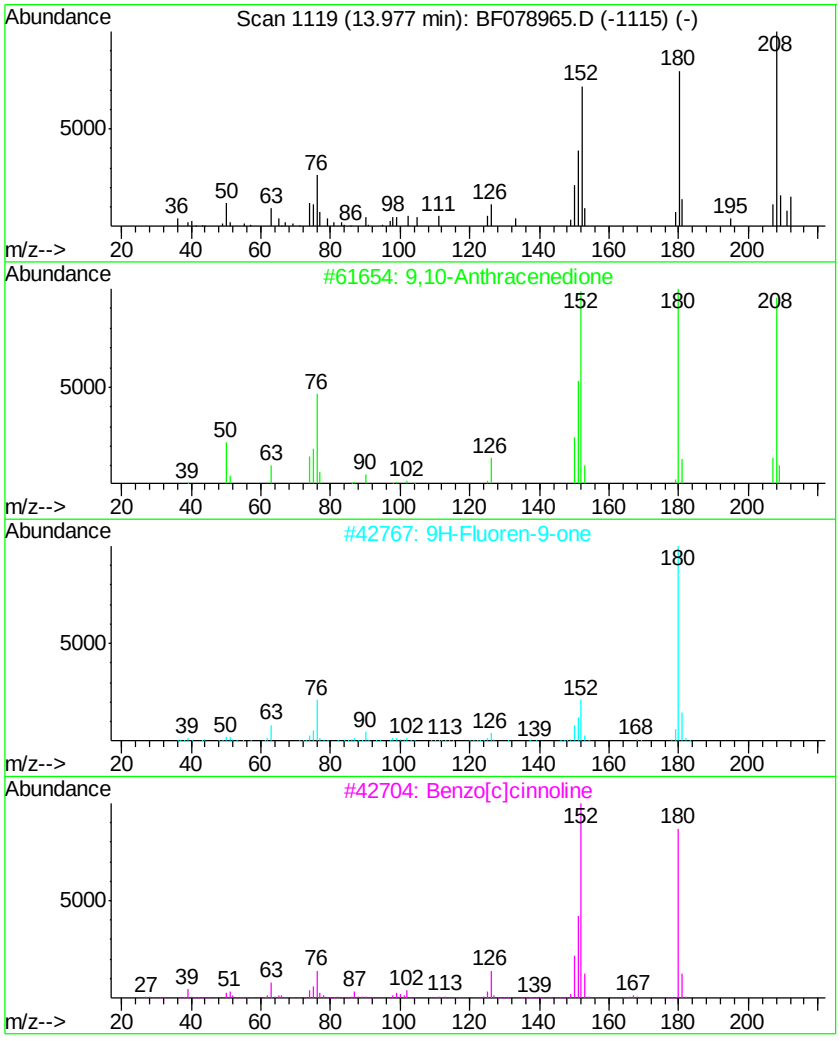
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

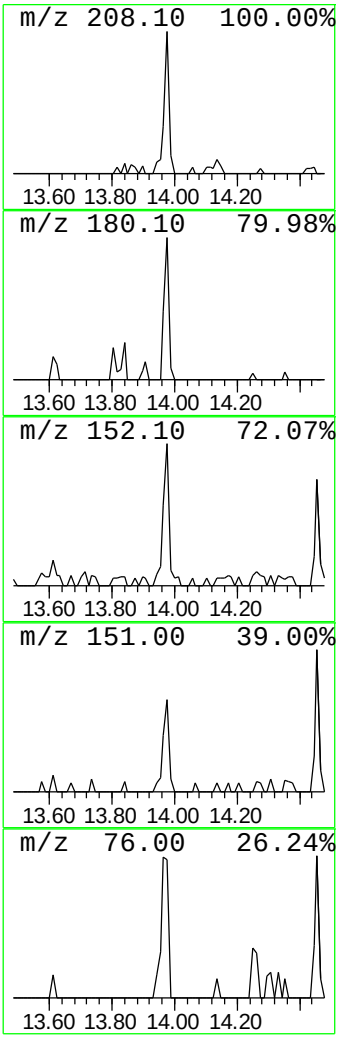
**********

Peak Number 13 9,10-Anthracenedione Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.98 | 2.66 ng | 101911 | Phenanthrene-d10 | 12.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 91 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 64 |
| 4 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 49 |
| 5 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

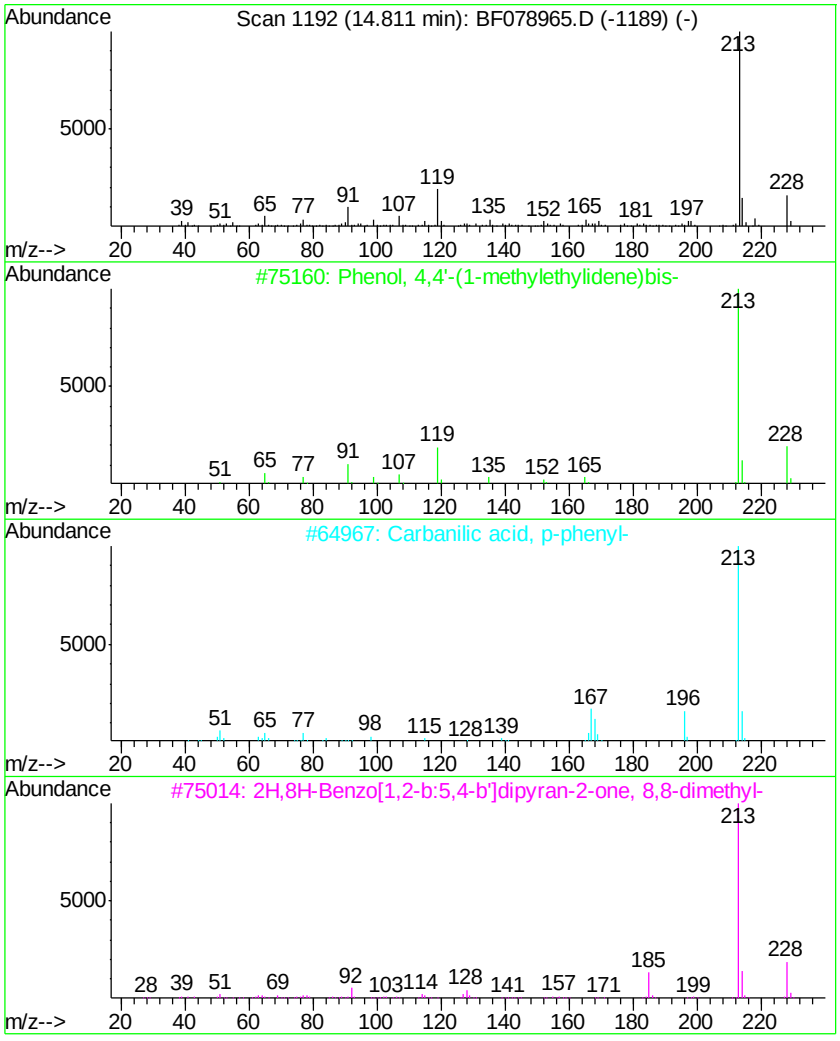
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

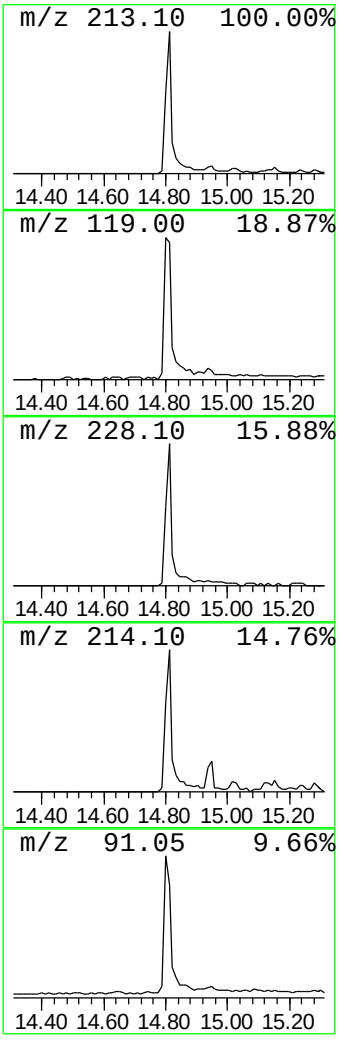
**********

Peak Number 14 Phenol, 4,4'-(1-methylethyl... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.81 | 8.45 ng | 614841 | Chrysene-d12 | 16.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-(1-methylethylidene... | 228 | C15H16O2 | 000080-05-7 | 98 |
| 2 | Carbanilic acid, p-phenyl- | 213 | C13H11NO2 | 004474-53-7 | 53 |
| 3 | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228 | C14H12O3 | 000553-19-5 | 45 |
| 4 | Trimethyl[5-(trimethylsilyl)-2-t... | 228 | C10H20SSi2 | 017906-71-7 | 45 |
| 5 | 2,4(1H,3H)-Pyrimidinedione, 1,3-... | 228 | C9H16N2O3Si | 089447-84-7 | 45 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

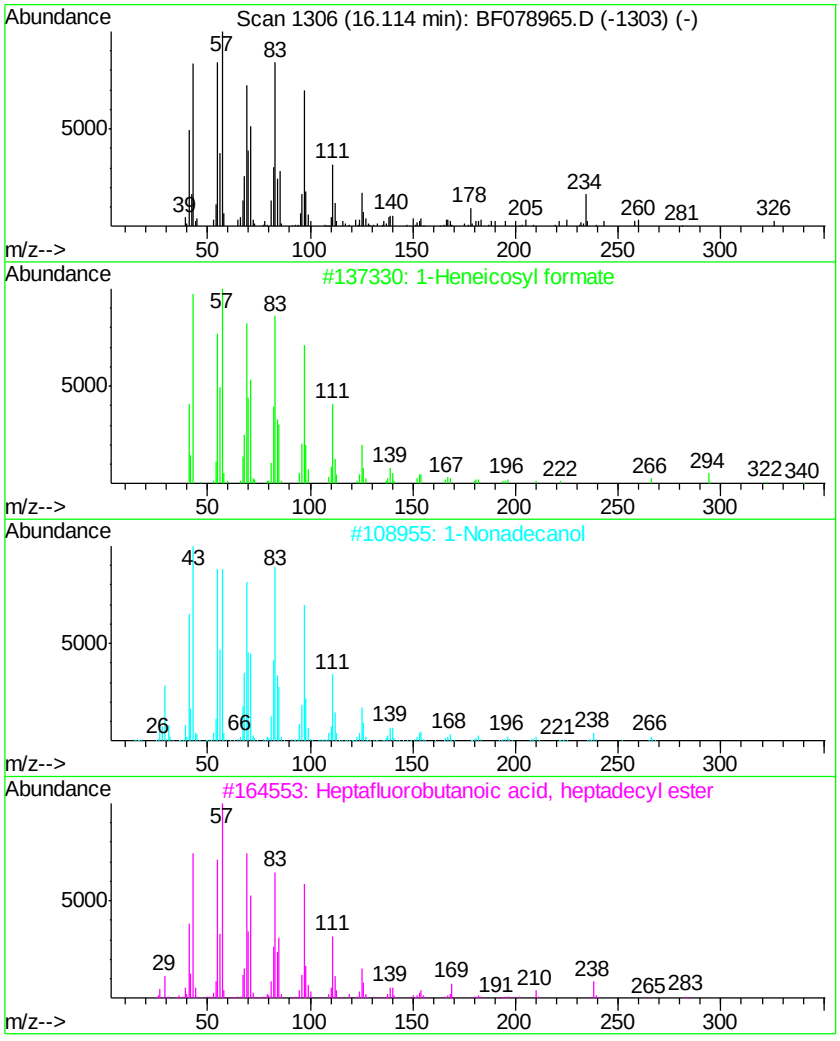
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

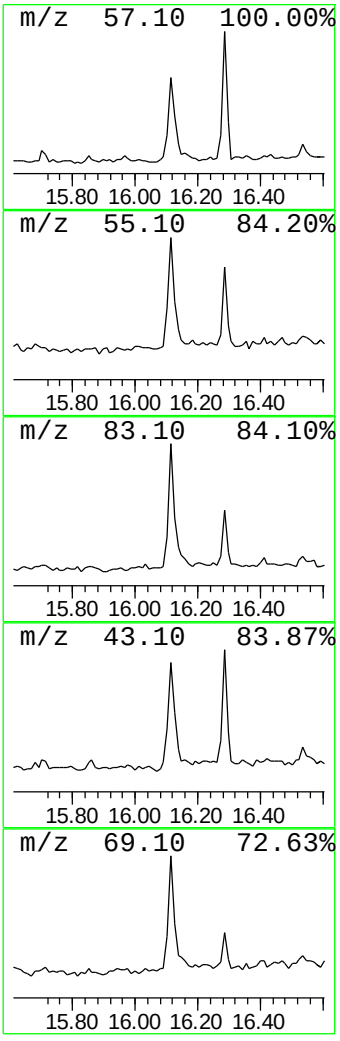
**********

Peak Number 15 1-Heneicosyl formate Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.11 | 2.94 ng | 213759 | Chrysene-d12 | 16.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 93 |
| 2 | 1-Nonadecanol | 284 | C19H40O | 001454-84-8 | 93 |
| 3 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 93 |
| 4 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 93 |
| 5 | Heptafluorobutyric acid, n-penta... | 424 | C19H31F7O2 | 1000216-79-3 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

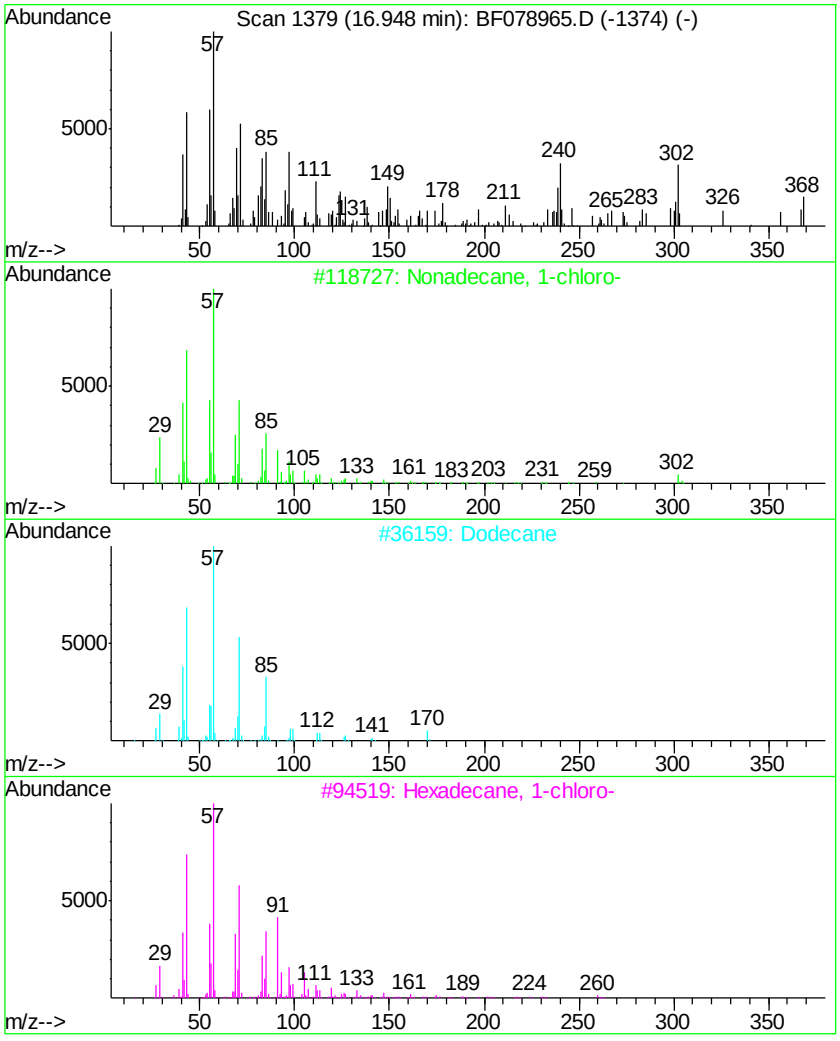
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

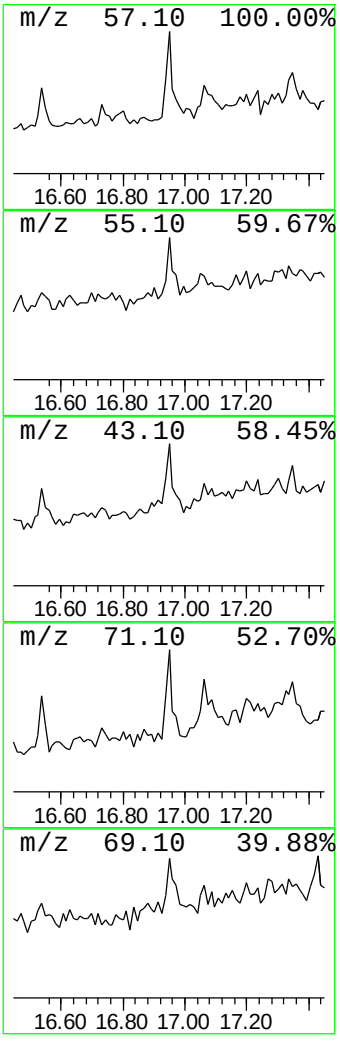
**********

Peak Number 16 unknown16.95 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.95 | 2.25 ng | 163395 | Chrysene-d12 | 16.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane, 1-chloro- | 302 | C19H39Cl | 062016-76-6 | 38 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 25 |
| 3 | Hexadecane, 1-chloro- | 260 | C16H33Cl | 004860-03-1 | 25 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 20 |
| 5 | Stearic acid hydrazide | 298 | C18H38N2O | 004130-54-5 | 14 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050615\
Data File : BF078965.D
Acq On : 6 May 2015 17:31
Operator : TP/IZ
Sample : G2114-10 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** GRID-4(0-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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 |
| unknown1.50 | 1.50 | 144.9 | ng | 3201740 | 1 | 7.35 | 441771 | 20.0 |
| Butane, 2-methoxy... | 1.82 | 8.0 | ng | 176716 | 1 | 7.35 | 441771 | 20.0 |
| 2-Pentanone, 4-hy... | 5.15 | 3.2 | ng | 71539 | 1 | 7.35 | 441771 | 20.0 |
| unknown7.06 | 7.06 | 35.2 | ng | 777237 | 1 | 7.35 | 441771 | 20.0 |
| Benzophenone | 12.00 | 2.9 | ng | 101810 | 3 | 11.10 | 692252 | 20.0 |
| 9H-Carbazole-9-me... | 13.25 | 2.2 | ng | 83574 | 4 | 12.95 | 765632 | 20.0 |
| Phenanthrene, 2-m... | 13.61 | 2.3 | ng | 88780 | 4 | 12.95 | 765632 | 20.0 |
| 4H-Cyclopenta[def... | 13.71 | 3.0 | ng | 115996 | 4 | 12.95 | 765632 | 20.0 |
| 9,10-Anthracenedione | 13.98 | 2.7 | ng | 101911 | 4 | 12.95 | 765632 | 20.0 |
| Phenol, 4,4'-(1-m... | 14.81 | 8.4 | ng | 614841 | 5 | 16.25 | 1454550 | 20.0 |
| 1-Heneicosyl formate | 16.11 | 2.9 | ng | 213759 | 5 | 16.25 | 1454550 | 20.0 |
| unknown16.95 | 16.95 | 2.3 | ng | 163395 | 5 | 16.25 | 1454550 | 20.0 |