LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

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-BF052615.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 | 1.278 | 6 | 8 | 19 | rVB2 | 130551 | 321615 | 5.48% | 0.981% |
| 2 | 1.427 | 19 | 21 | 34 | rVB | 107083 | 296860 | 5.06% | 0.905% |
| 3 | 1.587 | 34 | 35 | 43 | rVB | 66035 | 149564 | 2.55% | 0.456% |
| 4 | 1.701 | 43 | 45 | 88 | rVB | 2565292 | 5870717 | 100.00% | 17.902% |
| 5 | 5.302 | 358 | 360 | 372 | rBV | 286770 | 380350 | 6.48% | 1.160% |
| 6 | 6.616 | 472 | 475 | 483 | rBV | 296411 | 405716 | 6.91% | 1.237% |
| 7 | 6.730 | 483 | 485 | 488 | rBV | 394406 | 422637 | 7.20% | 1.289% |
| 8 | 7.016 | 508 | 510 | 513 | rBV | 621639 | 569668 | 9.70% | 1.737% |
| 9 | 7.199 | 524 | 526 | 529 | rBV | 276904 | 274926 | 4.68% | 0.838% |
| 10 | 7.713 | 569 | 571 | 576 | rBV | 239486 | 234223 | 3.99% | 0.714% |
| 11 | 8.593 | 645 | 648 | 650 | rBV | 907892 | 856957 | 14.60% | 2.613% |
| 12 | 9.599 | 734 | 736 | 741 | rVB | 92937 | 86127 | 1.47% | 0.263% |
| 13 | 9.942 | 764 | 766 | 768 | rBV | 460171 | 397696 | 6.77% | 1.213% |
| 14 | 10.262 | 791 | 794 | 796 | rVB | 35565 | 61575 | 1.05% | 0.188% |
| 15 | 10.353 | 799 | 802 | 803 | rBV | 65256 | 94847 | 1.62% | 0.289% |
| 16 | 10.491 | 812 | 814 | 817 | rVB | 49287 | 67606 | 1.15% | 0.206% |
| 17 | 10.765 | 836 | 838 | 840 | rVV | 811955 | 951940 | 16.22% | 2.903% |
| 18 | 10.799 | 840 | 841 | 845 | rVB | 371439 | 310837 | 5.29% | 0.948% |
| 19 | 11.016 | 857 | 860 | 863 | rVV | 167169 | 175509 | 2.99% | 0.535% |
| 20 | 11.074 | 863 | 865 | 871 | rVV2 | 33658 | 78074 | 1.33% | 0.238% |
| 21 | 11.279 | 880 | 883 | 888 | rBV2 | 23734 | 61478 | 1.05% | 0.187% |
| 22 | 11.439 | 895 | 897 | 900 | rVB | 267813 | 237643 | 4.05% | 0.725% |
| 23 | 11.519 | 900 | 904 | 905 | rBV | 39735 | 68965 | 1.17% | 0.210% |
| 24 | 11.645 | 913 | 915 | 918 | rVB | 68287 | 84196 | 1.43% | 0.257% |
| 25 | 11.736 | 921 | 923 | 926 | rVV2 | 287540 | 412785 | 7.03% | 1.259% |
| 26 | 12.125 | 952 | 957 | 959 | rVV | 67821 | 108051 | 1.84% | 0.329% |
| 27 | 12.228 | 961 | 966 | 967 | rVB3 | 36738 | 74007 | 1.26% | 0.226% |
| 28 | 12.308 | 970 | 973 | 975 | rBV3 | 27208 | 65272 | 1.11% | 0.199% |
| 29 | 12.422 | 981 | 983 | 985 | rBV | 42875 | 60455 | 1.03% | 0.184% |
| 30 | 12.468 | 985 | 987 | 989 | rVV | 110112 | 101285 | 1.73% | 0.309% |
| 31 | 12.594 | 996 | 998 | 1000 | rBV2 | 770216 | 1236754 | 21.07% | 3.771% |
| 32 | 12.628 | 1000 | 1001 | 1004 | rVV | 1886984 | 1510933 | 25.74% | 4.607% |
| 33 | 12.697 | 1004 | 1007 | 1009 | rVB | 403732 | 572621 | 9.75% | 1.746% |
| 34 | 12.902 | 1023 | 1025 | 1028 | rVV | 94637 | 117805 | 2.01% | 0.359% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.222 | 1051 | 1053 | 1055 | rBV | 188574 | 226763 | 3.86% | 0.691% |
| 36 | 13.257 | 1055 | 1056 | 1059 | rVB | 211253 | 233237 | 3.97% | 0.711% |
| 37 | 13.314 | 1059 | 1061 | 1063 | rBV | 98571 | 134480 | 2.29% | 0.410% |
| 38 | 13.359 | 1063 | 1065 | 1067 | rVV | 345901 | 475651 | 8.10% | 1.450% |
| 39 | 13.394 | 1067 | 1068 | 1071 | rVB | 106086 | 85079 | 1.45% | 0.259% |
| 40 | 13.599 | 1084 | 1086 | 1091 | rVB | 129996 | 171275 | 2.92% | 0.522% |
| 41 | 13.782 | 1100 | 1102 | 1104 | rBV2 | 47500 | 59378 | 1.01% | 0.181% |
| 42 | 13.908 | 1110 | 1113 | 1115 | rBV | 106915 | 164020 | 2.79% | 0.500% |
| 43 | 13.954 | 1115 | 1117 | 1121 | rVB2 | 62129 | 104466 | 1.78% | 0.319% |
| 44 | 14.022 | 1121 | 1123 | 1126 | rVB3 | 46584 | 75784 | 1.29% | 0.231% |
| 45 | 14.102 | 1127 | 1130 | 1132 | rBV | 1869677 | 1830395 | 31.18% | 5.582% |
| 46 | 14.171 | 1134 | 1136 | 1139 | rBV3 | 154585 | 191157 | 3.26% | 0.583% |
| 47 | 14.285 | 1143 | 1146 | 1147 | rBV | 80489 | 118279 | 2.01% | 0.361% |
| 48 | 14.377 | 1151 | 1154 | 1156 | rBV | 1626213 | 1848474 | 31.49% | 5.637% |
| 49 | 14.445 | 1159 | 1160 | 1166 | rVB2 | 67882 | 114128 | 1.94% | 0.348% |
| 50 | 14.537 | 1166 | 1168 | 1170 | rBV | 86582 | 104299 | 1.78% | 0.318% |
| 51 | 14.594 | 1170 | 1173 | 1175 | rVB2 | 381528 | 488973 | 8.33% | 1.491% |
| 52 | 14.662 | 1176 | 1179 | 1181 | rBV2 | 69978 | 135313 | 2.30% | 0.413% |
| 53 | 14.800 | 1185 | 1191 | 1193 | rVB | 226057 | 403848 | 6.88% | 1.231% |
| 54 | 14.880 | 1193 | 1198 | 1200 | rBV | 271628 | 375101 | 6.39% | 1.144% |
| 55 | 14.925 | 1200 | 1202 | 1204 | rBV | 141029 | 200787 | 3.42% | 0.612% |
| 56 | 15.028 | 1210 | 1211 | 1213 | rBV | 72476 | 91784 | 1.56% | 0.280% |
| 57 | 15.074 | 1213 | 1215 | 1218 | rVV | 65121 | 91549 | 1.56% | 0.279% |
| 58 | 15.337 | 1233 | 1238 | 1240 | rVV2 | 40459 | 124400 | 2.12% | 0.379% |
| 59 | 15.405 | 1242 | 1244 | 1245 | rBV | 45480 | 65385 | 1.11% | 0.199% |
| 60 | 15.565 | 1255 | 1258 | 1259 | rBV | 78983 | 107896 | 1.84% | 0.329% |
| 61 | 15.600 | 1259 | 1261 | 1264 | rVV2 | 110671 | 194415 | 3.31% | 0.593% |
| 62 | 15.645 | 1264 | 1265 | 1268 | rVB2 | 48854 | 67451 | 1.15% | 0.206% |
| 63 | 15.771 | 1274 | 1276 | 1278 | rBV2 | 56133 | 91701 | 1.56% | 0.280% |
| 64 | 15.874 | 1281 | 1285 | 1287 | rVV2 | 1231239 | 2134328 | 36.36% | 6.508% |
| 65 | 15.908 | 1287 | 1288 | 1290 | rVV | 597660 | 502466 | 8.56% | 1.532% |
| 66 | 16.000 | 1293 | 1296 | 1298 | rBV2 | 160993 | 205337 | 3.50% | 0.626% |
| 67 | 16.137 | 1306 | 1308 | 1310 | rVB | 58238 | 64720 | 1.10% | 0.197% |
| 68 | 16.171 | 1310 | 1311 | 1316 | rVB2 | 65537 | 119066 | 2.03% | 0.363% |
| 69 | 16.320 | 1322 | 1324 | 1326 | rBV3 | 43006 | 64415 | 1.10% | 0.196% |
| 70 | 16.365 | 1326 | 1328 | 1330 | rBV | 93015 | 147235 | 2.51% | 0.449% |
| 71 | 16.411 | 1330 | 1332 | 1333 | rBV2 | 74534 | 95962 | 1.63% | 0.293% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.154 | 1395 | 1397 | 1403 | rBV | 521250 | 1101302 | 18.76% | 3.358% |
| 73 | 17.268 | 1406 | 1407 | 1409 | rVB | 109991 | 123846 | 2.11% | 0.378% |
| 74 | 17.474 | 1423 | 1425 | 1428 | rBV | 329001 | 438644 | 7.47% | 1.338% |
| 75 | 17.531 | 1428 | 1430 | 1433 | rBV | 534980 | 662677 | 11.29% | 2.021% |
| 76 | 17.600 | 1433 | 1436 | 1438 | rBV | 878346 | 1135783 | 19.35% | 3.463% |
| 77 | 18.926 | 1549 | 1552 | 1556 | rBV2 | 241149 | 464848 | 7.92% | 1.418% |
| 78 | 19.314 | 1583 | 1586 | 1590 | rBV | 209263 | 437634 | 7.45% | 1.335% |

Sum of corrected areas: 32793425

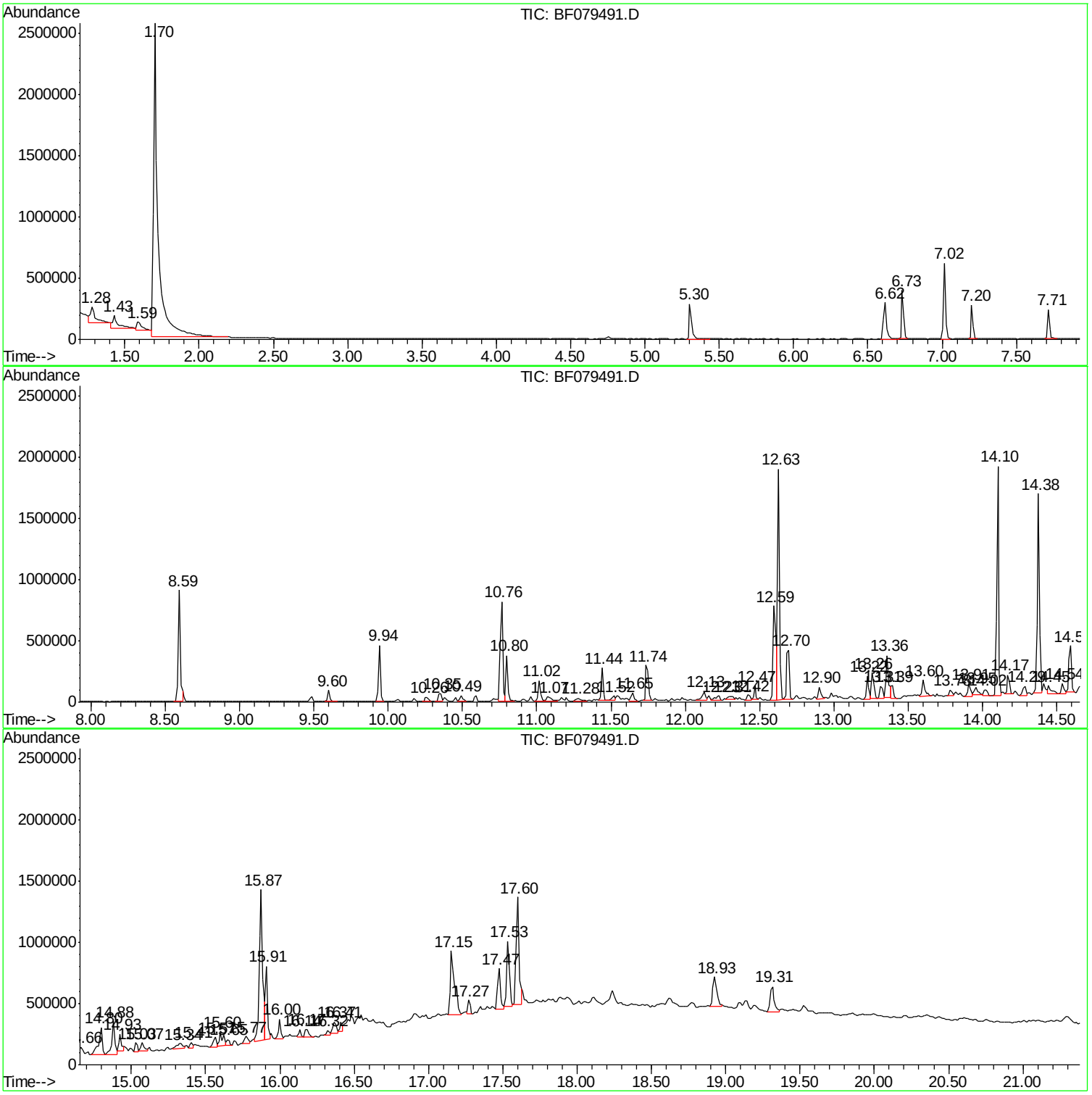
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

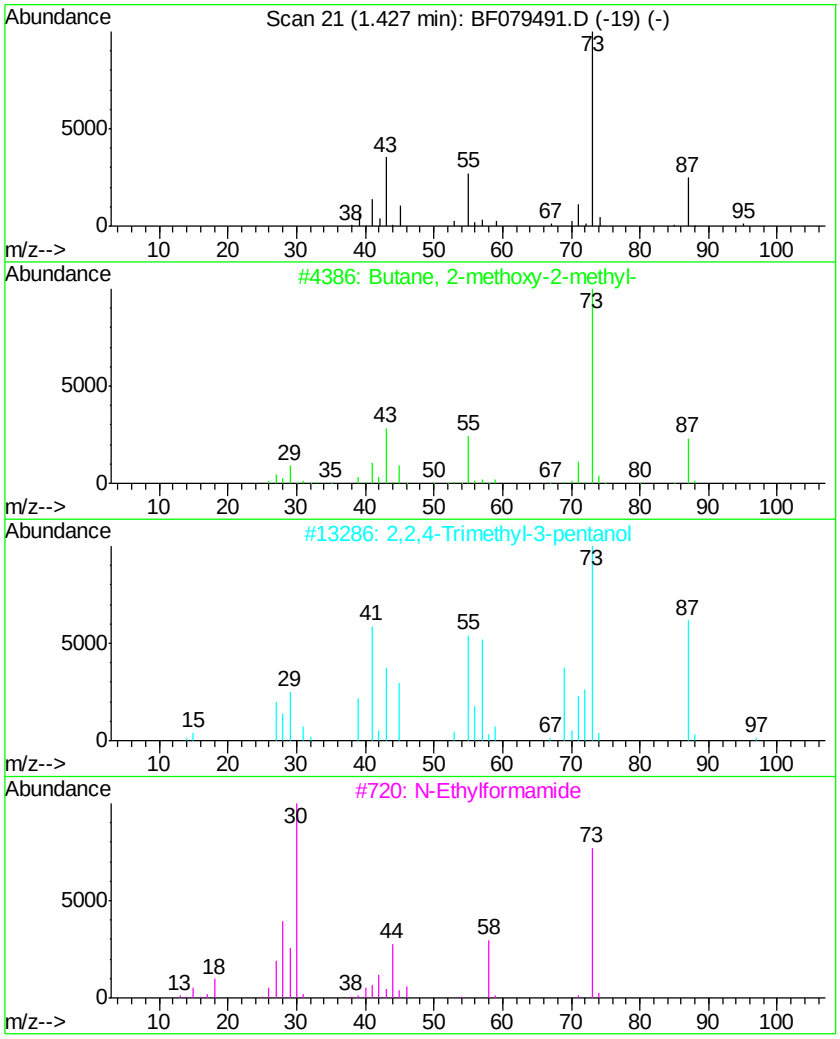
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

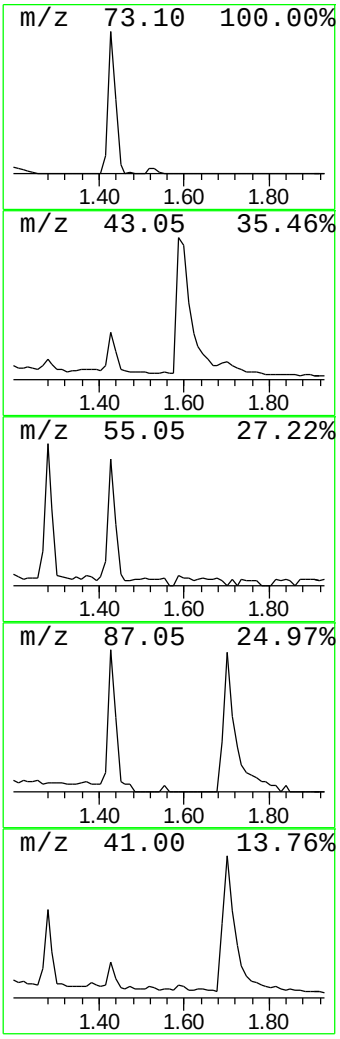
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.43 | 10.42 ng | 296860 | 1,4-Dichlorobenzene-d4 | 7.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 4 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

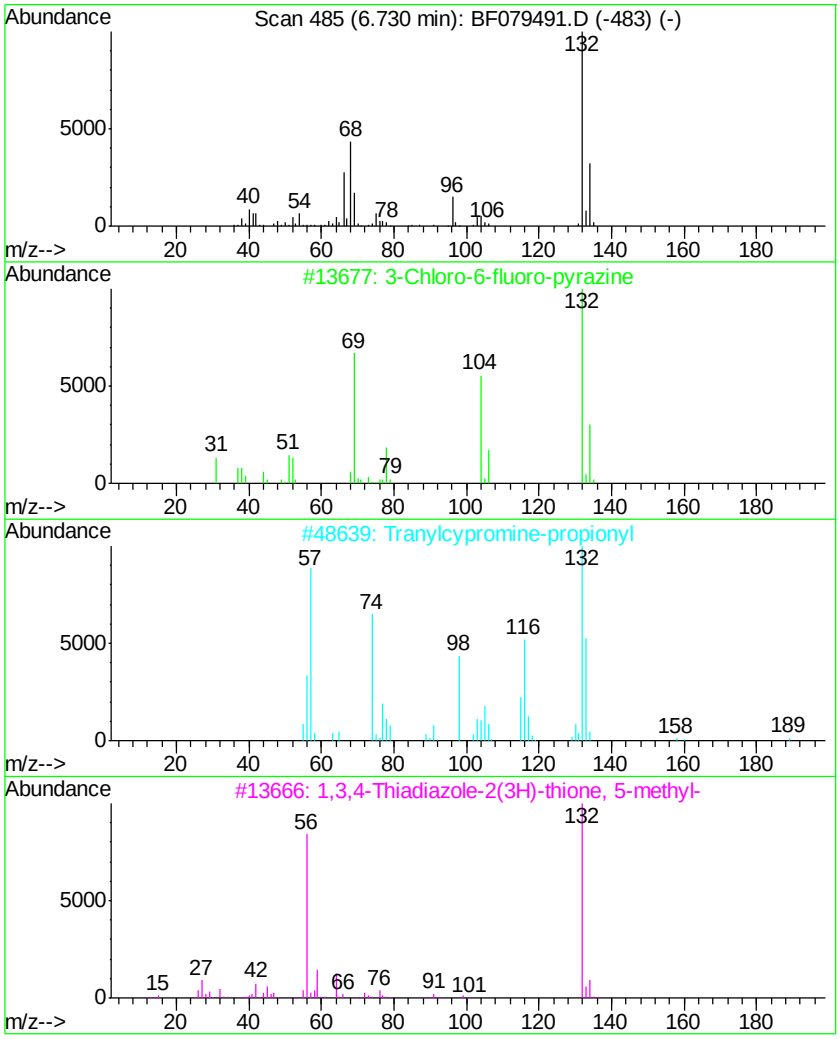
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

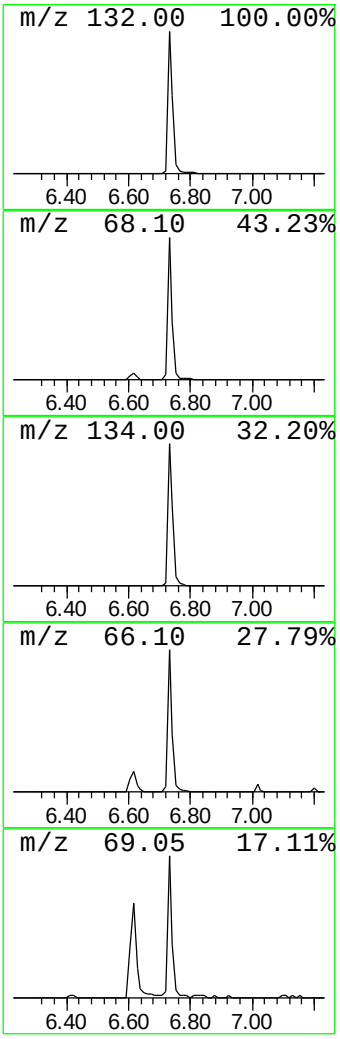
**********

Peak Number 5 unknown6.73 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.73 | 14.84 ng | 422637 | 1,4-Dichlorobenzene-d4 | 7.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 9 |
| 4 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

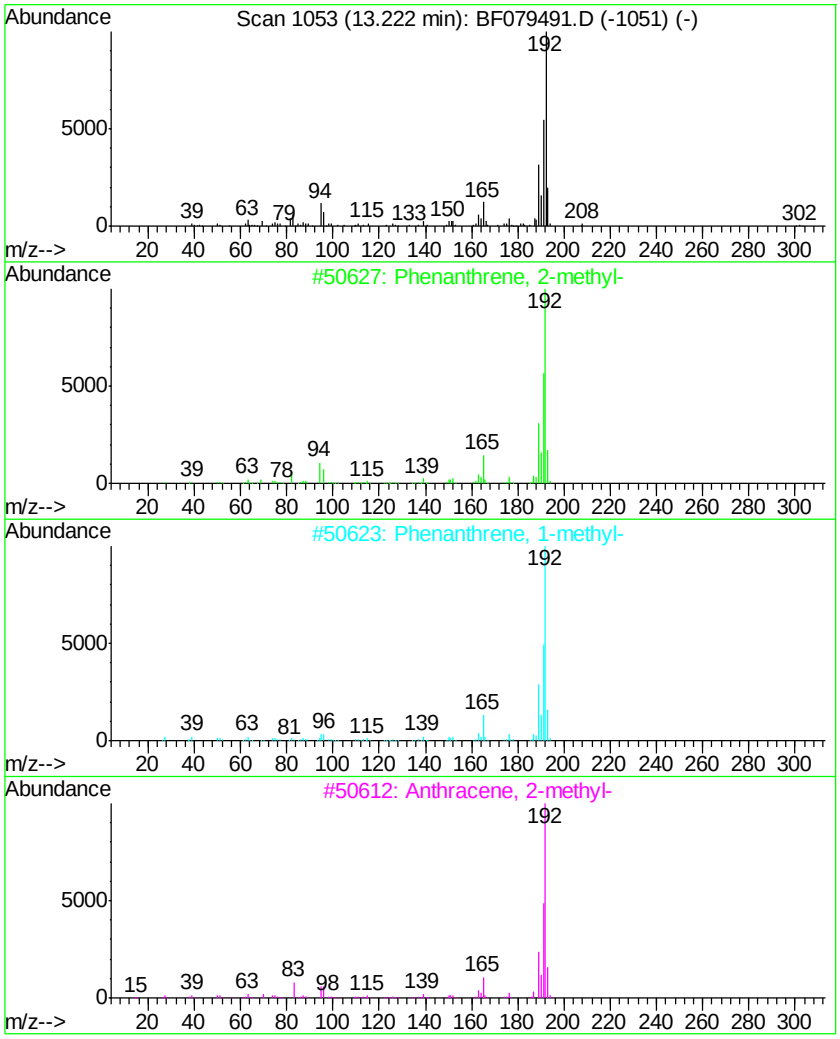
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

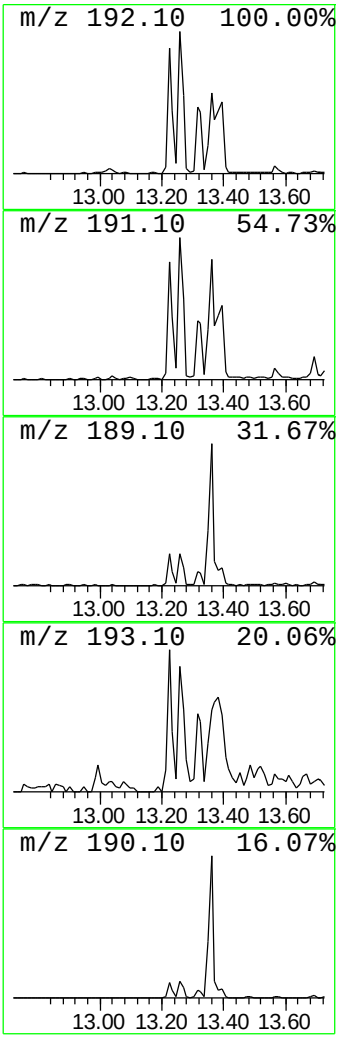
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 3.67 ng | 226763 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

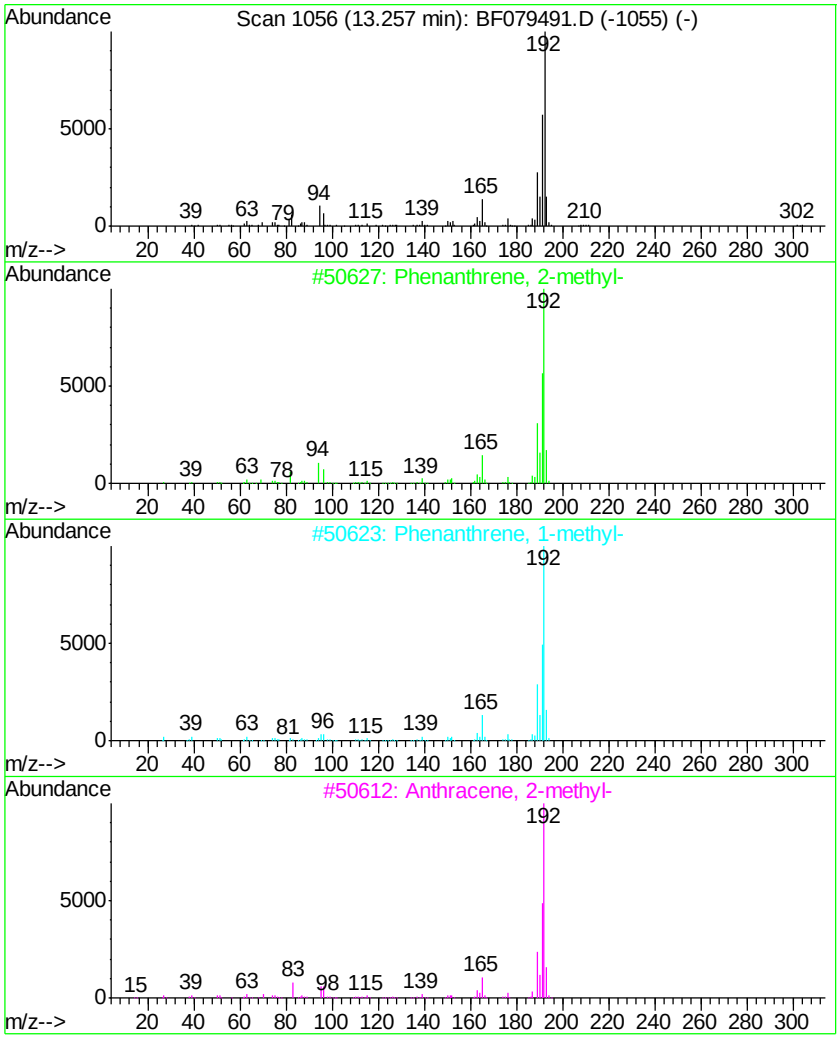
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

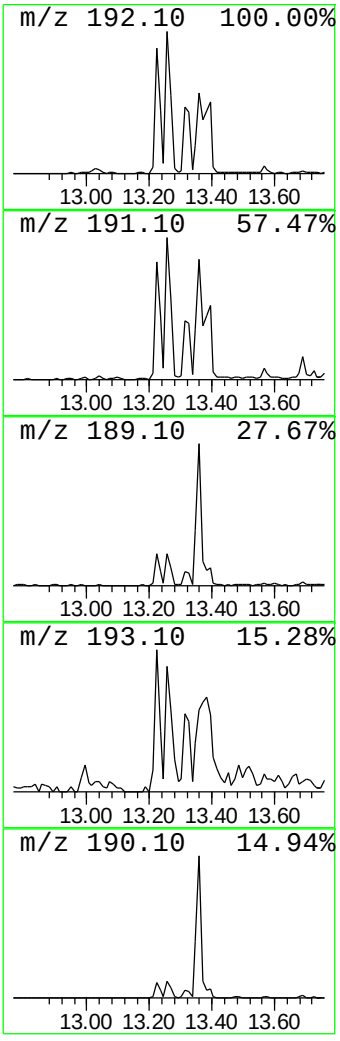
**********

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.26 | 3.77 ng | 233237 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 94 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

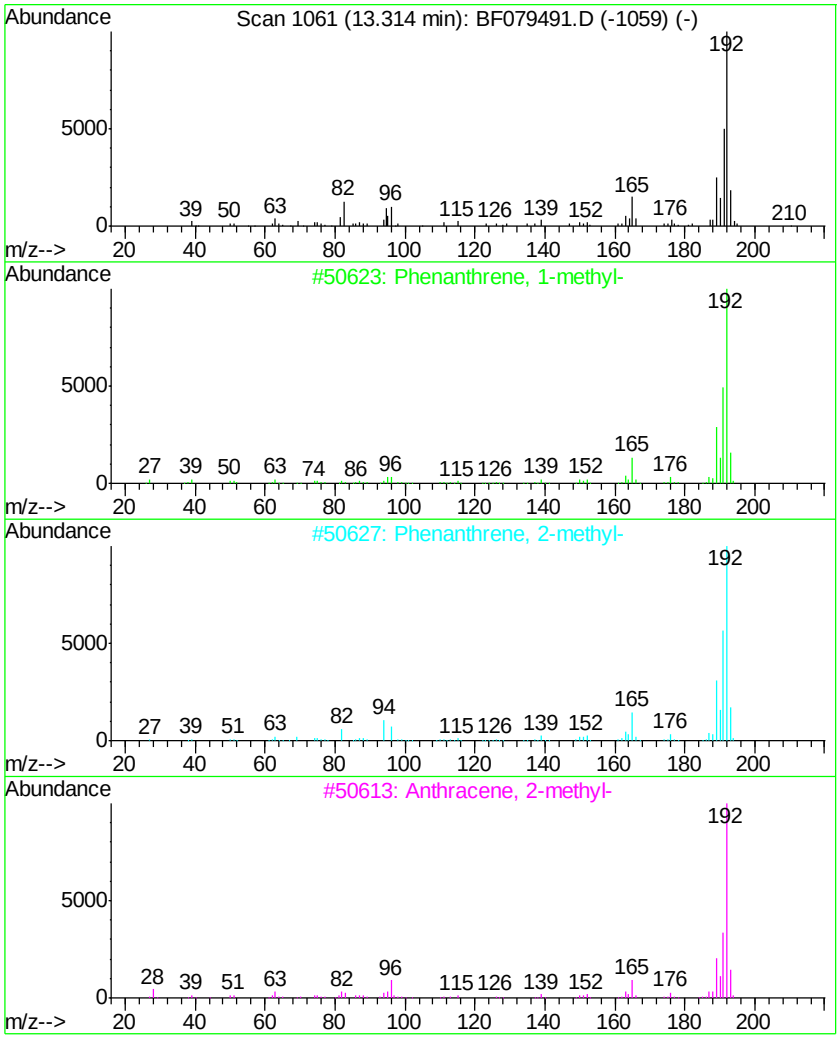
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

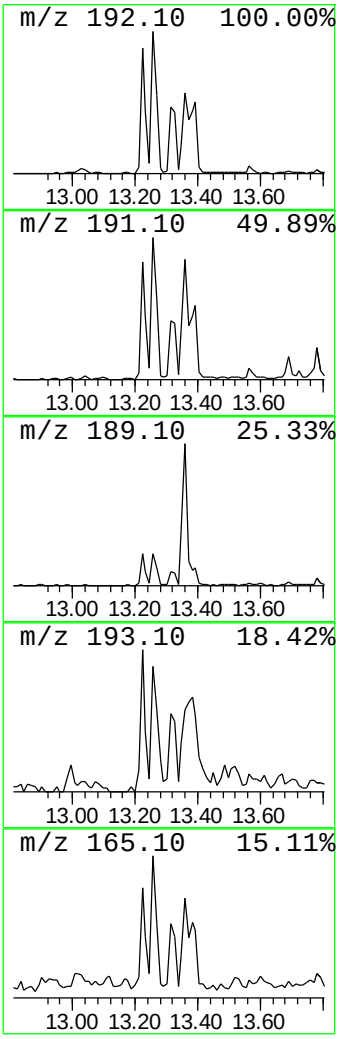
**********

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.31 | 2.17 ng | 134480 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

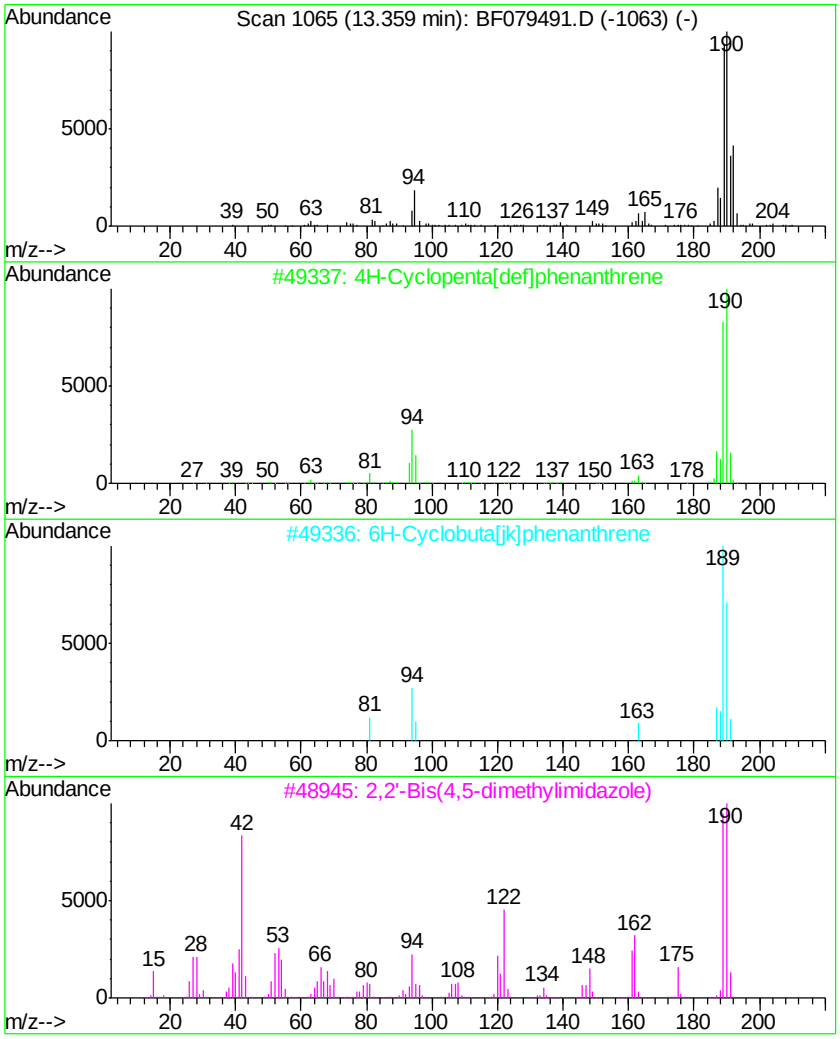
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

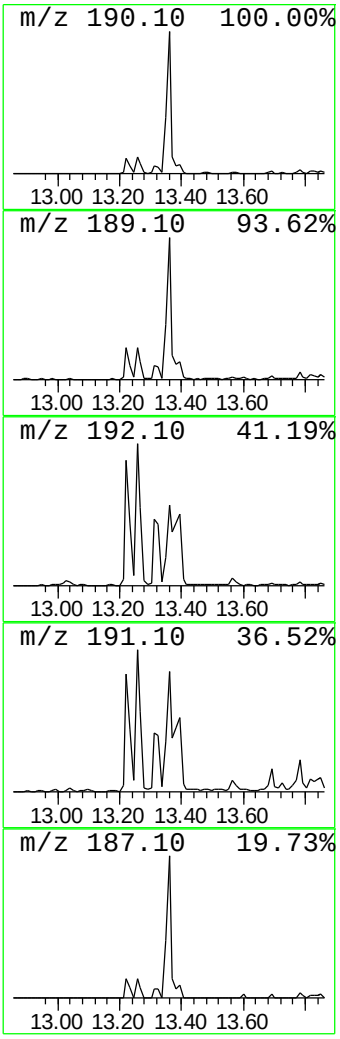
**********

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.36 | 7.69 ng | 475651 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 45 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 42 |
| 4 | 4-Isothiazolecarbonitrile, 5-chl... | 190 | C5H3ClN2S2 | 054798-93-5 | 25 |
| 5 | 4,4'-Difluorobiphenyl | 190 | C12H8F2 | 000398-23-2 | 17 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

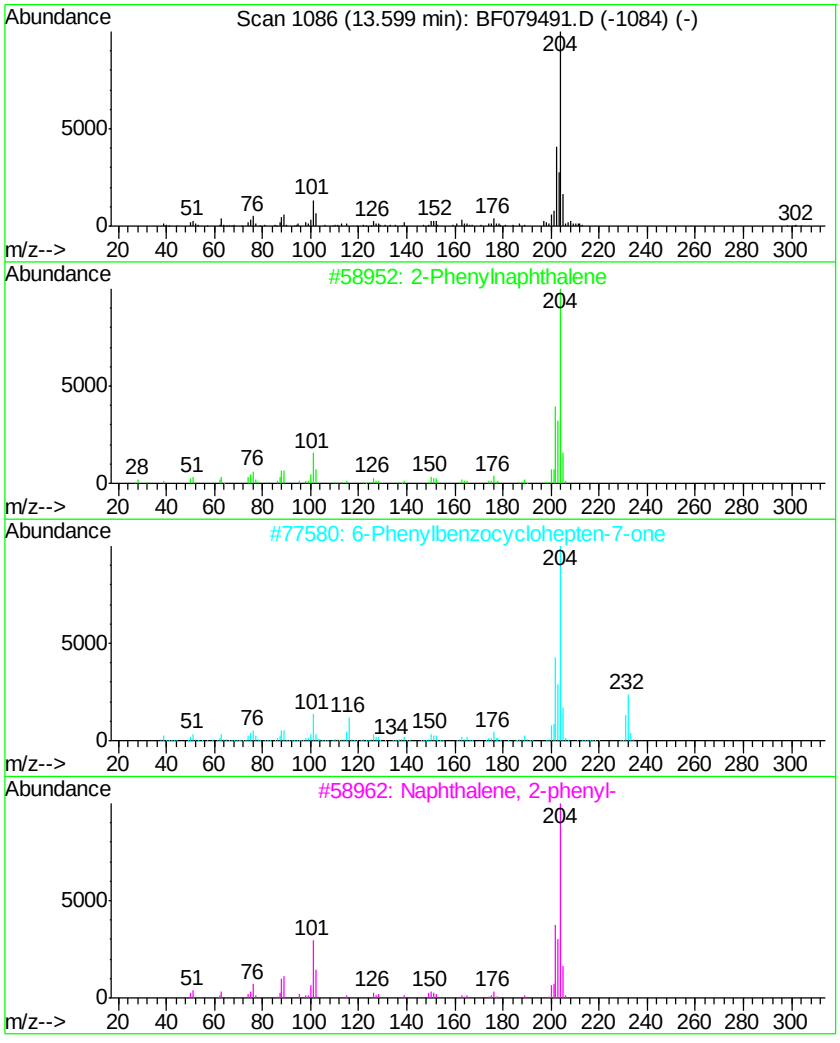
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

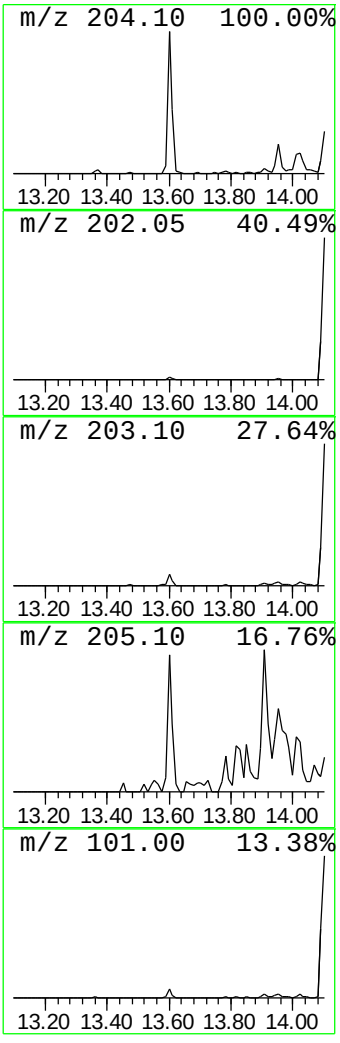
**********

Peak Number 12 2-Phenylnaphthalene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.60 | 2.77 ng | 171275 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Phenylnaphthalene | 204 | C16H12 | 035465-71-5 | 94 |
| 2 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 91 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 4 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 5 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

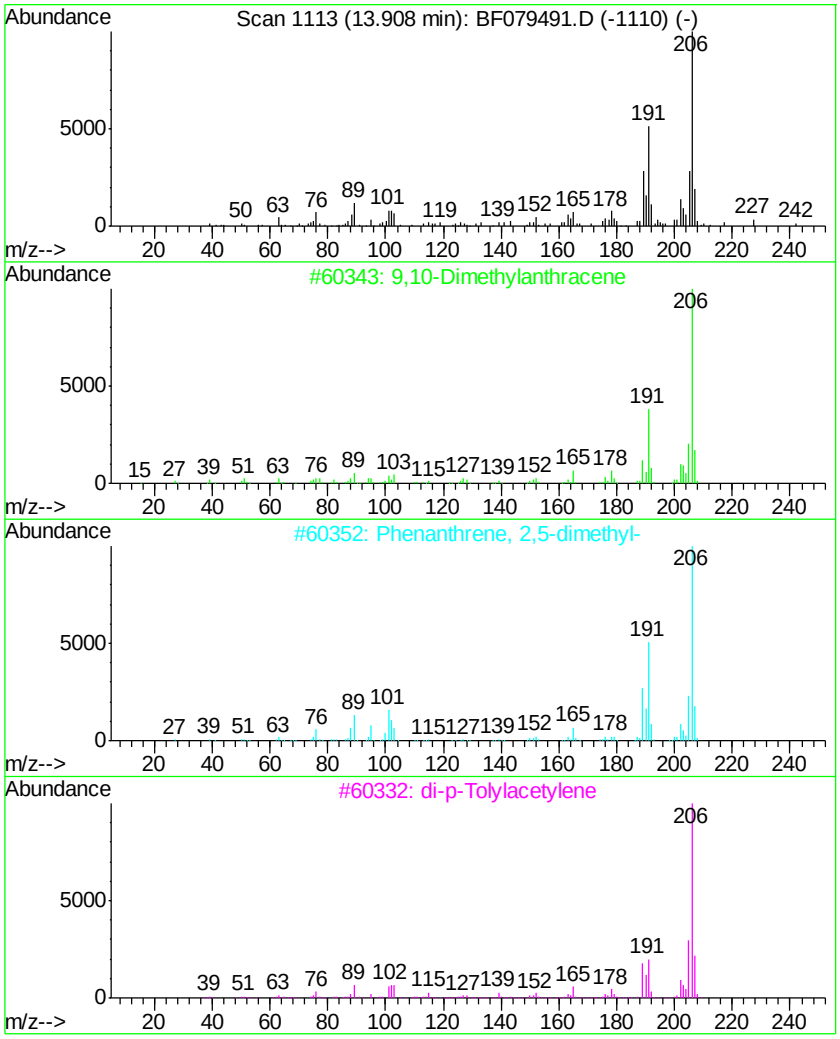
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

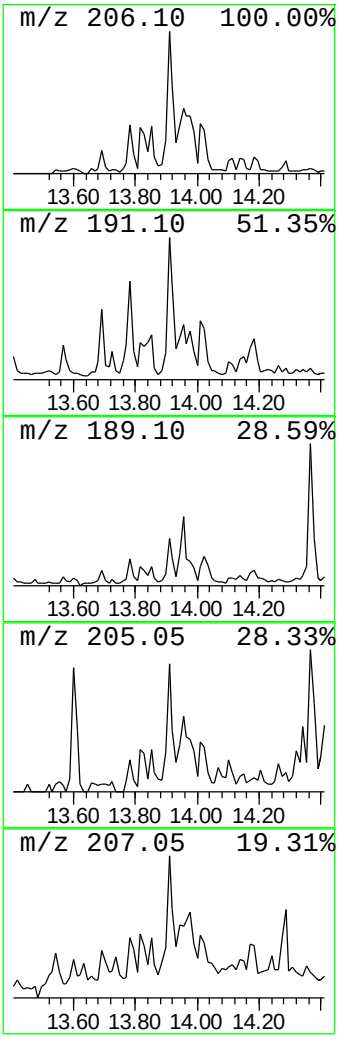
**********

Peak Number 13 9,10-Dimethylanthracene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.91 | 2.65 ng | 164020 | Phenanthrene-d10 | 12.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 97 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 94 |
| 3 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 94 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

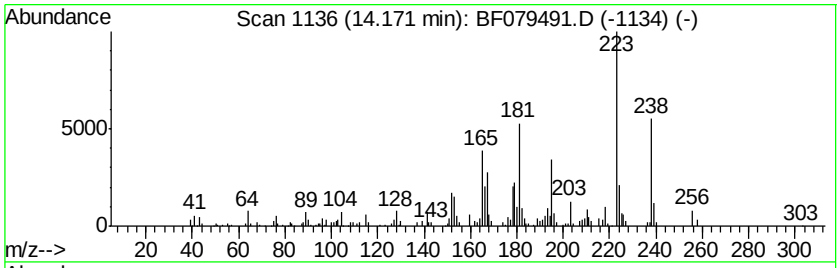
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

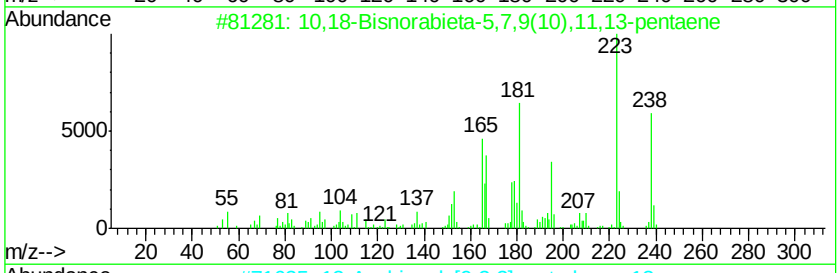
**********

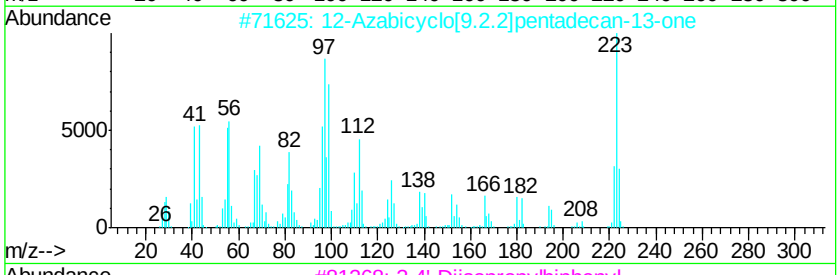
Peak Number 14 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 13

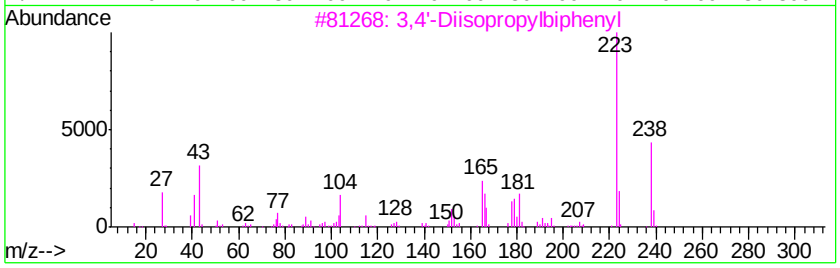
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.17 | 3.09 ng | 191157 | Phenanthrene-d10 | 12.59 |

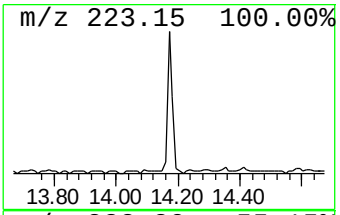
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 12-Azabicyclo[9.2.2]pentadecan-1... | 223 | C14H25NO | 1000191-26-7 | 64 |
| 3 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 62 |
| 4 | 3-(N,N-Diethylamino)carbazole | 238 | C16H18N2 | 054994-31-9 | 49 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 45 |

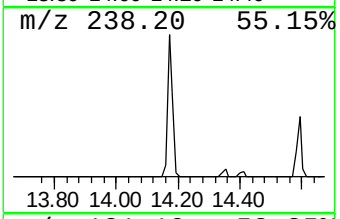


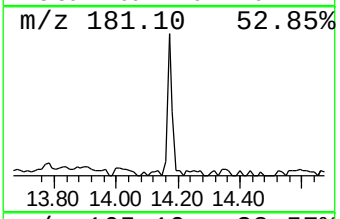



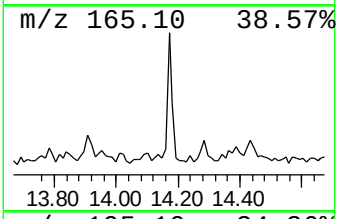



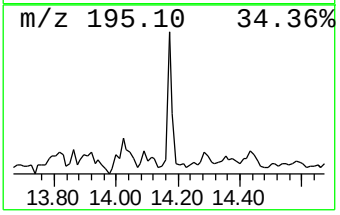



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Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

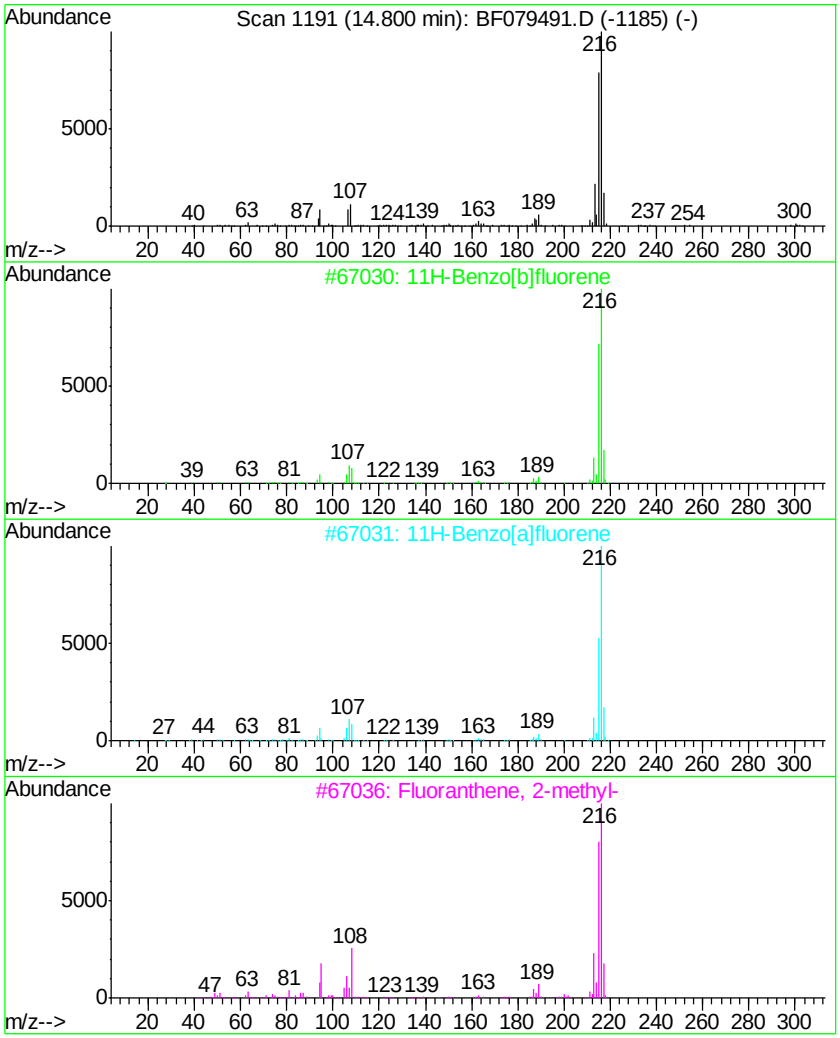
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

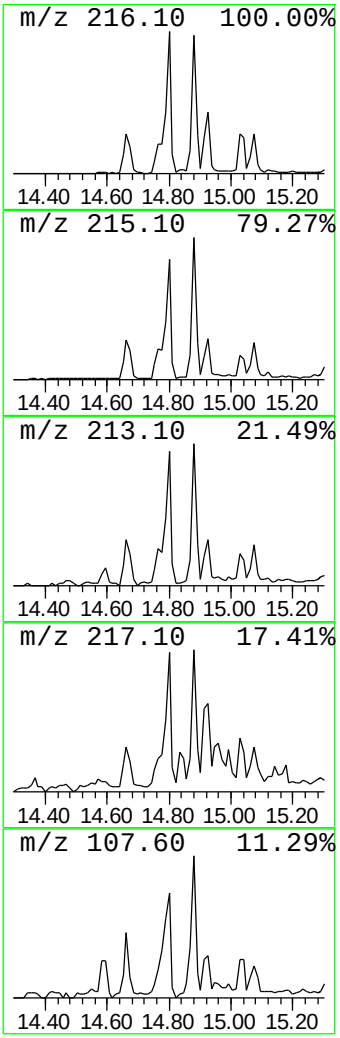
**********

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.80 | 3.78 ng | 403848 | Chrysene-d12 | 15.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 97 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 94 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 5 | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 64 |



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Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

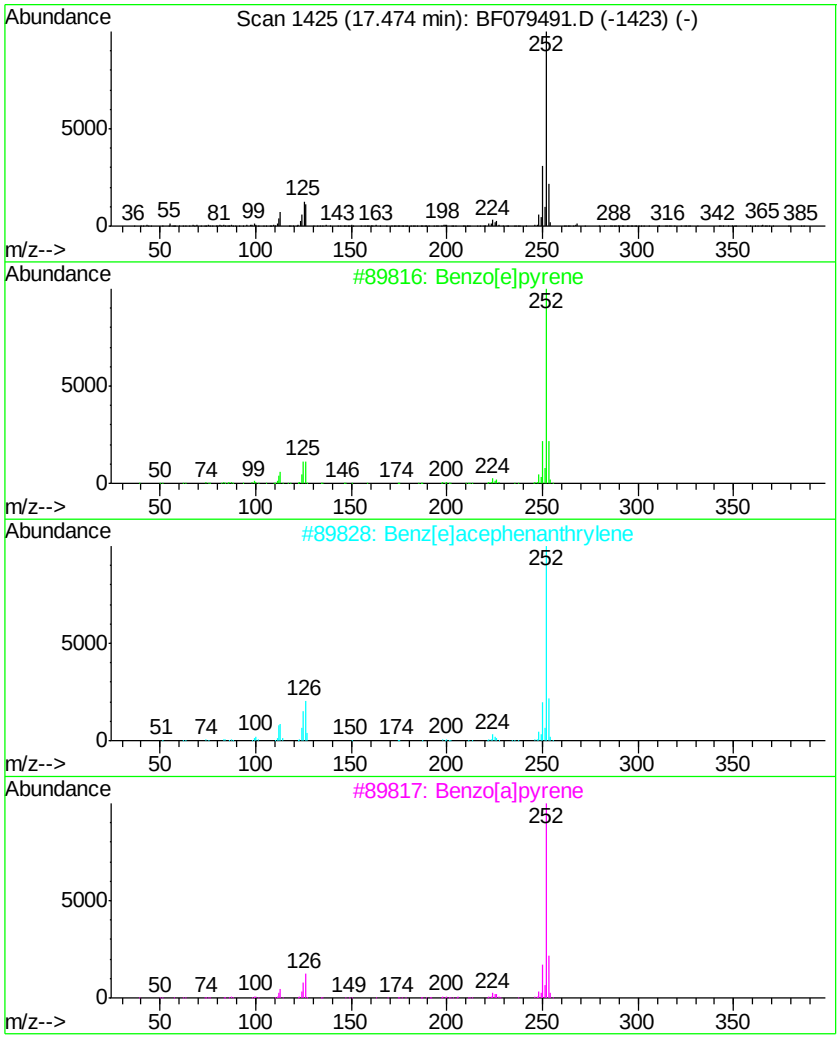
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

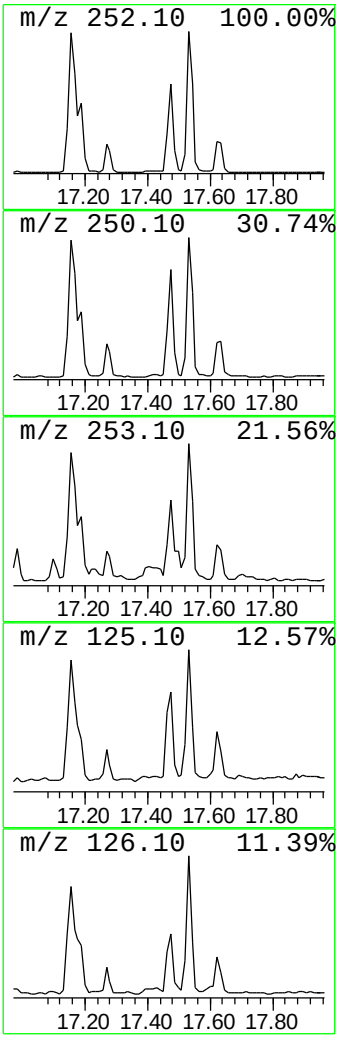
**********

Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.47 | 7.72 ng | 438644 | Perylene-d12 | 17.60 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 95 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 94 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052615\
Data File : BF079491.D
Acq On : 26 May 2015 22:50
Operator : TP/IZ
Sample : G2289-10 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-30D

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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 |
| Butane, 2-methoxy... | 1.43 | 10.4 | ng | 296860 | 1 | 7.02 | 569668 | 20.0 |
| unknown6.73 | 6.73 | 14.8 | ng | 422637 | 1 | 7.02 | 569668 | 20.0 |
| Phenanthrene, 2-m... | 13.22 | 3.7 | ng | 226763 | 4 | 12.59 | 1236750 | 20.0 |
| Phenanthrene, 1-m... | 13.26 | 3.8 | ng | 233237 | 4 | 12.59 | 1236750 | 20.0 |
| Anthracene, 2-met... | 13.31 | 2.2 | ng | 134480 | 4 | 12.59 | 1236750 | 20.0 |
| 4H-Cyclopenta[def... | 13.36 | 7.7 | ng | 475651 | 4 | 12.59 | 1236750 | 20.0 |
| 2-Phenylnaphthalene | 13.60 | 2.8 | ng | 171275 | 4 | 12.59 | 1236750 | 20.0 |
| 9,10-Dimethylanth... | 13.91 | 2.6 | ng | 164020 | 4 | 12.59 | 1236750 | 20.0 |
| 10,18-Bisnorabiet... | 14.17 | 3.1 | ng | 191157 | 4 | 12.59 | 1236750 | 20.0 |
| 11H-Benzo[b]fluorene | 14.80 | 3.8 | ng | 403848 | 5 | 15.87 | 2134330 | 20.0 |
| Benzo[e]pyrene | 17.47 | 7.7 | ng | 438644 | 6 | 17.60 | 1135780 | 20.0 |