LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-29D

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: BF079426.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.336 | 11 | 13 | 25 | rVB | 146550 | 401760 | 4.55% | 0.780% |
| 2 | 1.496 | 25 | 27 | 34 | rVV | 245074 | 333735 | 3.78% | 0.648% |
| 3 | 1.610 | 36 | 37 | 46 | rVV | 740799 | 1281201 | 14.50% | 2.488% |
| 4 | 1.724 | 46 | 47 | 86 | rVB | 4136338 | 8838539 | 100.00% | 17.162% |
| 5 | 4.810 | 315 | 317 | 323 | rBV | 96063 | 131827 | 1.49% | 0.256% |
| 6 | 5.347 | 362 | 364 | 371 | rBV | 1158873 | 1282639 | 14.51% | 2.491% |
| 7 | 6.650 | 475 | 478 | 480 | rBV | 976600 | 1337749 | 15.14% | 2.598% |
| 8 | 6.776 | 487 | 489 | 492 | rBV | 1218314 | 1368024 | 15.48% | 2.656% |
| 9 | 7.073 | 513 | 515 | 517 | rBV | 293193 | 350872 | 3.97% | 0.681% |
| 10 | 7.119 | 517 | 519 | 520 | rBV | 94776 | 112547 | 1.27% | 0.219% |
| 11 | 7.256 | 528 | 531 | 533 | rBV | 1018376 | 997696 | 11.29% | 1.937% |
| 12 | 7.759 | 574 | 575 | 578 | rBV | 515880 | 717626 | 8.12% | 1.393% |
| 13 | 8.651 | 650 | 653 | 654 | rBV | 373359 | 570422 | 6.45% | 1.108% |
| 14 | 8.673 | 654 | 655 | 657 | rVB | 415782 | 310271 | 3.51% | 0.602% |
| 15 | 9.531 | 728 | 730 | 734 | rBV | 451382 | 424659 | 4.80% | 0.825% |
| 16 | 9.645 | 738 | 740 | 743 | rBV | 263686 | 378332 | 4.28% | 0.735% |
| 17 | 9.988 | 768 | 770 | 773 | rBV | 1106351 | 1441461 | 16.31% | 2.799% |
| 18 | 10.228 | 787 | 791 | 796 | rVB | 239156 | 279000 | 3.16% | 0.542% |
| 19 | 10.308 | 796 | 798 | 801 | rBV | 124464 | 214177 | 2.42% | 0.416% |
| 20 | 10.399 | 803 | 806 | 808 | rBV | 194440 | 224971 | 2.55% | 0.437% |
| 21 | 10.434 | 808 | 809 | 812 | rVB | 218996 | 172190 | 1.95% | 0.334% |
| 22 | 10.502 | 812 | 815 | 817 | rBV | 115293 | 121931 | 1.38% | 0.237% |
| 23 | 10.548 | 817 | 819 | 824 | rVB | 79756 | 142804 | 1.62% | 0.277% |
| 24 | 10.628 | 824 | 826 | 830 | rBV2 | 180506 | 285359 | 3.23% | 0.554% |
| 25 | 10.811 | 840 | 842 | 844 | rVB | 503302 | 548588 | 6.21% | 1.065% |
| 26 | 10.856 | 844 | 846 | 848 | rBV | 405443 | 385308 | 4.36% | 0.748% |
| 27 | 10.959 | 853 | 855 | 858 | rBV | 104951 | 189245 | 2.14% | 0.367% |
| 28 | 11.074 | 862 | 865 | 867 | rBV | 237365 | 307496 | 3.48% | 0.597% |
| 29 | 11.325 | 885 | 887 | 890 | rBV3 | 125084 | 212008 | 2.40% | 0.412% |
| 30 | 11.428 | 895 | 896 | 900 | rVB2 | 162498 | 215312 | 2.44% | 0.418% |
| 31 | 11.497 | 900 | 902 | 904 | rVB | 388763 | 389258 | 4.40% | 0.756% |
| 32 | 11.565 | 904 | 908 | 910 | rBV2 | 101376 | 224663 | 2.54% | 0.436% |
| 33 | 11.691 | 918 | 919 | 923 | rVB2 | 66406 | 118662 | 1.34% | 0.230% |
| 34 | 11.794 | 925 | 928 | 931 | rBV | 1065806 | 1109690 | 12.56% | 2.155% |
| 35 | 11.919 | 935 | 939 | 941 | rBV2 | 67415 | 132986 | 1.50% | 0.258% |
| 36 | 12.182 | 958 | 962 | 963 | rVV2 | 81707 | 166506 | 1.88% | 0.323% |
| 37 | 12.274 | 966 | 970 | 972 | rVV4 | 58179 | 136901 | 1.55% | 0.266% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-29D

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38 | 12.434 | 982 | 984 | 986 | rVB2 | 111130 | 119266 | 1.35% | 0.232% |
| 39 | 12.525 | 990 | 992 | 993 | rVB | 114665 | 119277 | 1.35% | 0.232% |
| 40 | 12.685 | 1001 | 1006 | 1008 | rBV | 2384396 | 2935858 | 33.22% | 5.701% |
| 41 | 12.742 | 1008 | 1011 | 1014 | rVB | 592933 | 670256 | 7.58% | 1.301% |
| 42 | 12.960 | 1028 | 1030 | 1031 | rBV | 98802 | 104719 | 1.18% | 0.203% |
| 43 | 13.280 | 1055 | 1058 | 1060 | rBV | 384706 | 459568 | 5.20% | 0.892% |
| 44 | 13.314 | 1060 | 1061 | 1064 | rVB | 624163 | 559193 | 6.33% | 1.086% |
| 45 | 13.371 | 1064 | 1066 | 1068 | rBV | 175941 | 210025 | 2.38% | 0.408% |
| 46 | 13.417 | 1068 | 1070 | 1071 | rVV | 444717 | 608204 | 6.88% | 1.181% |
| 47 | 13.440 | 1071 | 1072 | 1075 | rVB | 514175 | 634795 | 7.18% | 1.233% |
| 48 | 13.657 | 1089 | 1091 | 1095 | rVB2 | 189776 | 252290 | 2.85% | 0.490% |
| 49 | 13.840 | 1105 | 1107 | 1109 | rBV2 | 445122 | 711192 | 8.05% | 1.381% |
| 50 | 13.965 | 1114 | 1118 | 1120 | rBV2 | 165878 | 290974 | 3.29% | 0.565% |
| 51 | 14.011 | 1120 | 1122 | 1123 | rVV | 131690 | 219788 | 2.49% | 0.427% |
| 52 | 14.034 | 1123 | 1124 | 1126 | rVB | 274636 | 257338 | 2.91% | 0.500% |
| 53 | 14.080 | 1126 | 1128 | 1130 | rVB | 86368 | 127510 | 1.44% | 0.248% |
| 54 | 14.160 | 1130 | 1135 | 1137 | rBV | 1615251 | 1913178 | 21.65% | 3.715% |
| 55 | 14.228 | 1139 | 1141 | 1143 | rVB2 | 409613 | 474723 | 5.37% | 0.922% |
| 56 | 14.331 | 1148 | 1150 | 1152 | rBV3 | 56551 | 96027 | 1.09% | 0.186% |
| 57 | 14.434 | 1157 | 1159 | 1161 | rVB | 1699112 | 1869974 | 21.16% | 3.631% |
| 58 | 14.525 | 1166 | 1167 | 1170 | rVB | 264890 | 270123 | 3.06% | 0.525% |
| 59 | 14.594 | 1171 | 1173 | 1175 | rBV | 126315 | 151470 | 1.71% | 0.294% |
| 60 | 14.651 | 1175 | 1178 | 1180 | rBV | 1495611 | 1731741 | 19.59% | 3.363% |
| 61 | 14.720 | 1181 | 1184 | 1186 | rBV2 | 101130 | 159342 | 1.80% | 0.309% |
| 62 | 14.811 | 1189 | 1192 | 1194 | rBV | 691132 | 986034 | 11.16% | 1.915% |
| 63 | 14.857 | 1194 | 1196 | 1198 | rVB2 | 252868 | 294936 | 3.34% | 0.573% |
| 64 | 14.937 | 1198 | 1203 | 1205 | rBV | 271392 | 306411 | 3.47% | 0.595% |
| 65 | 14.983 | 1205 | 1207 | 1209 | rBV | 188777 | 259006 | 2.93% | 0.503% |
| 66 | 15.085 | 1215 | 1216 | 1218 | rVB | 85823 | 106740 | 1.21% | 0.207% |
| 67 | 15.131 | 1218 | 1220 | 1223 | rBV | 108262 | 133942 | 1.52% | 0.260% |
| 68 | 15.394 | 1238 | 1243 | 1245 | rBV2 | 41011 | 95398 | 1.08% | 0.185% |
| 69 | 15.623 | 1261 | 1263 | 1265 | rBV | 86702 | 122171 | 1.38% | 0.237% |
| 70 | 15.657 | 1265 | 1266 | 1270 | rVV2 | 86085 | 187716 | 2.12% | 0.365% |
| 71 | 15.840 | 1277 | 1282 | 1286 | rBV2 | 190908 | 363323 | 4.11% | 0.705% |
| 72 | 15.943 | 1286 | 1291 | 1293 | rVV2 | 843558 | 1746887 | 19.76% | 3.392% |
| 73 | 15.977 | 1293 | 1294 | 1296 | rVV | 659578 | 618834 | 7.00% | 1.202% |
| 74 | 16.068 | 1299 | 1302 | 1305 | rVV2 | 97903 | 153751 | 1.74% | 0.299% |
| 75 | 16.251 | 1317 | 1318 | 1323 | rVB3 | 56717 | 108023 | 1.22% | 0.210% |
| 76 | 16.457 | 1333 | 1336 | 1338 | rBV | 151696 | 196912 | 2.23% | 0.382% |
| 77 | 16.583 | 1344 | 1347 | 1348 | rVV2 | 76945 | 125527 | 1.42% | 0.244% |
| 78 | 16.617 | 1348 | 1350 | 1351 | rVV2 | 71464 | 107500 | 1.22% | 0.209% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-29D

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 79 | 16.674 | 1353 | 1355 | 1358 | rVV2 | 47924 | 110696 | 1.25% | 0.215% |
| 80 | 17.269 | 1405 | 1407 | 1413 | rBV | 456662 | 1157446 | 13.10% | 2.247% |
| 81 | 17.394 | 1416 | 1418 | 1421 | rVB | 126227 | 158032 | 1.79% | 0.307% |
| 82 | 17.600 | 1434 | 1436 | 1440 | rVB | 288774 | 413598 | 4.68% | 0.803% |
| 83 | 17.669 | 1440 | 1442 | 1446 | rBV | 584762 | 685807 | 7.76% | 1.332% |
| 84 | 17.737 | 1446 | 1448 | 1450 | rBV | 498289 | 679052 | 7.68% | 1.319% |
| 85 | 18.949 | 1551 | 1554 | 1557 | rVB3 | 50662 | 112636 | 1.27% | 0.219% |
| 86 | 19.109 | 1565 | 1568 | 1572 | rBV2 | 216025 | 460898 | 5.21% | 0.895% |
| 87 | 19.177 | 1572 | 1574 | 1580 | rVB2 | 47660 | 105536 | 1.19% | 0.205% |
| 88 | 19.269 | 1580 | 1582 | 1585 | rBV | 55648 | 126584 | 1.43% | 0.246% |
| 89 | 19.326 | 1585 | 1587 | 1596 | rVB3 | 75132 | 245470 | 2.78% | 0.477% |
| 90 | 19.497 | 1599 | 1602 | 1608 | rVB | 219069 | 393145 | 4.45% | 0.763% |
| 91 | 19.714 | 1618 | 1621 | 1626 | rVB | 61803 | 134047 | 1.52% | 0.260% |

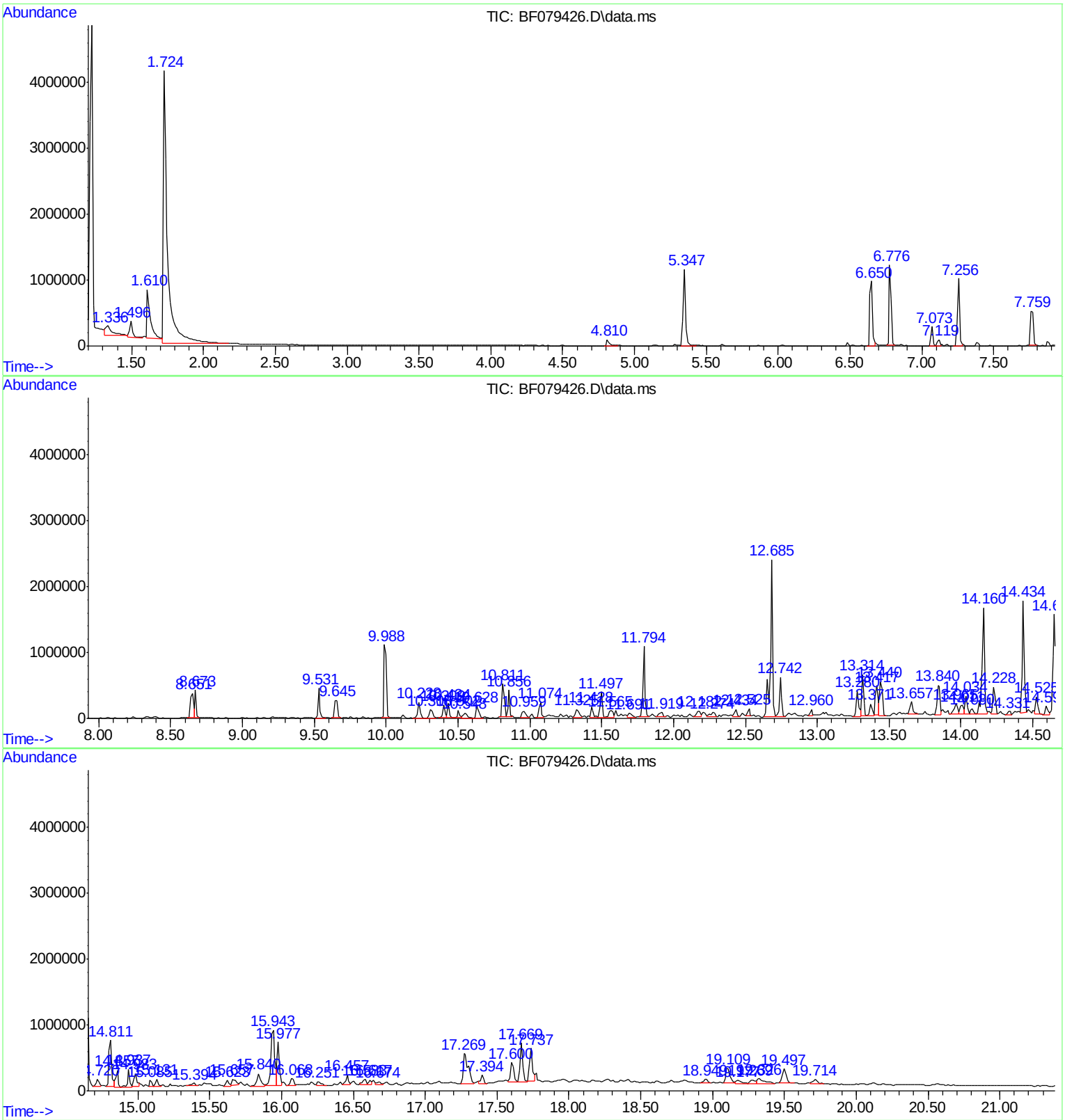
Sum of corrected areas: 51499304

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

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\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

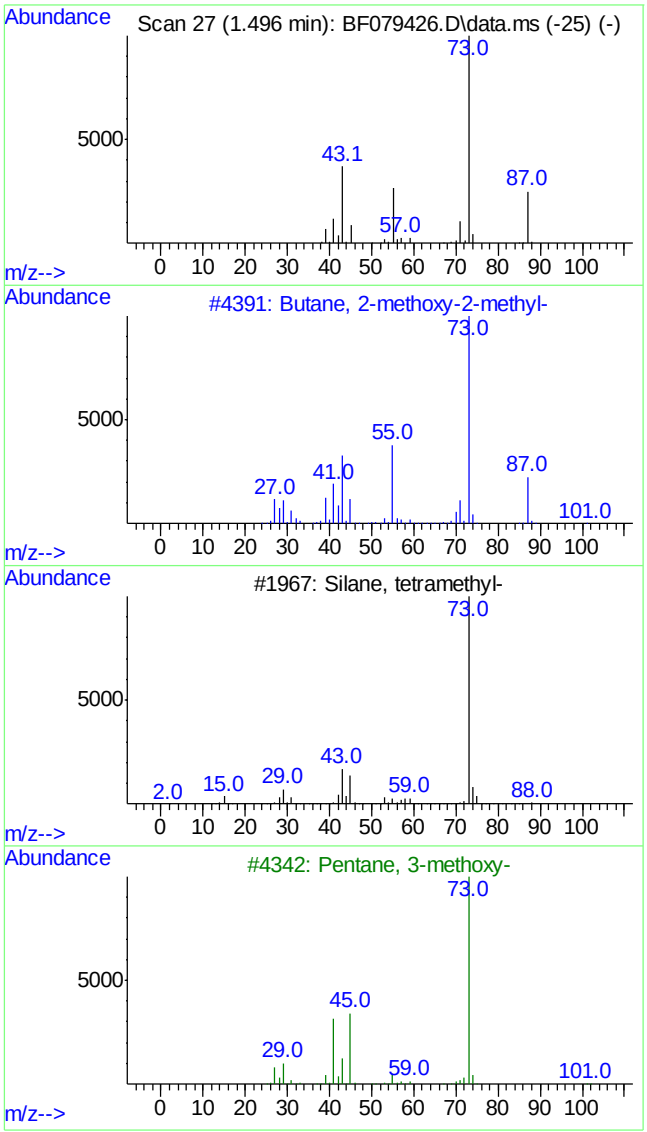
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

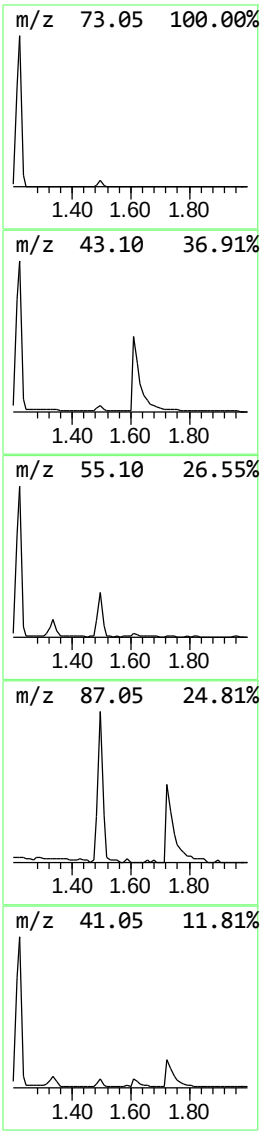
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.496 | 19.02 ng | 333735 | 1,4-Dichlorobenzene-d4 | 7.073 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 25 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

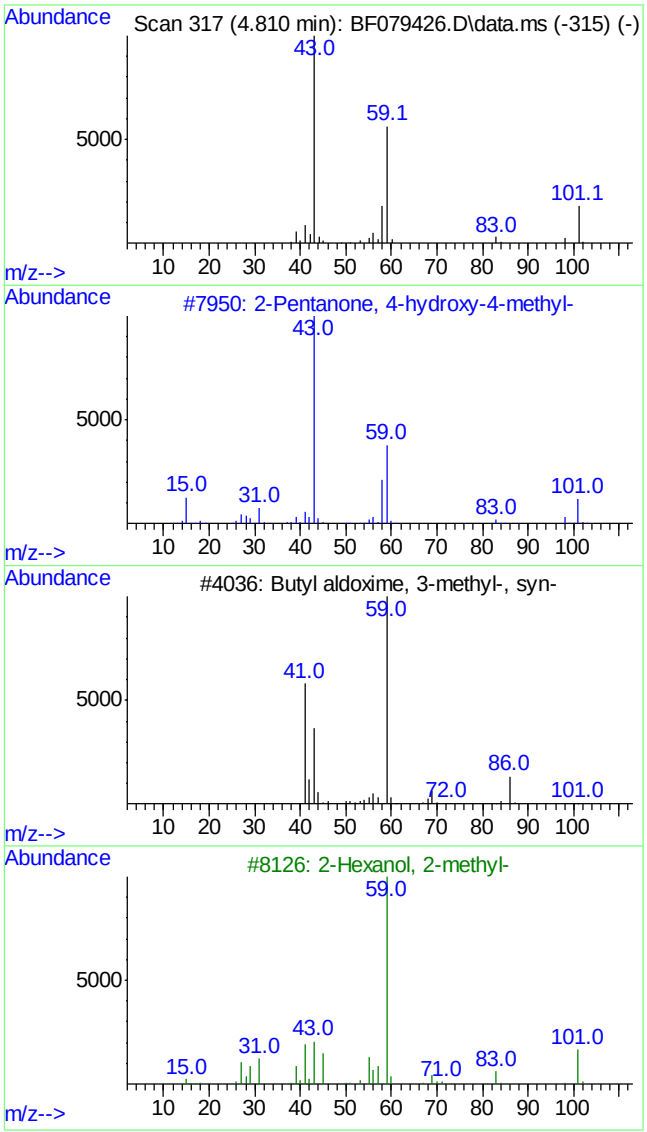
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

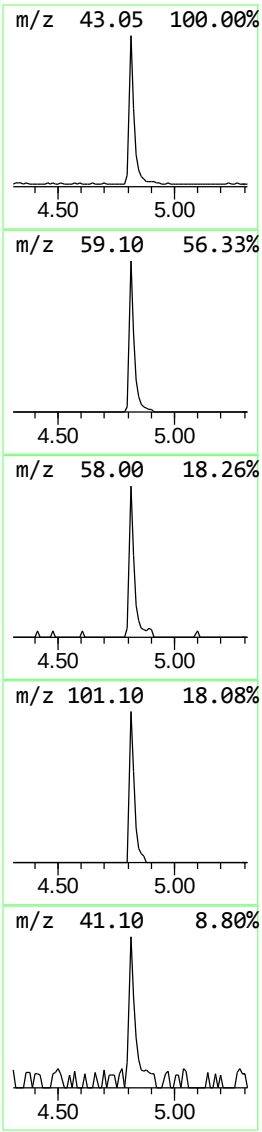
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.810 | 7.51 ng | 131827 | 1,4-Dichlorobenzene-d4 | 7.073 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 32 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 16 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

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

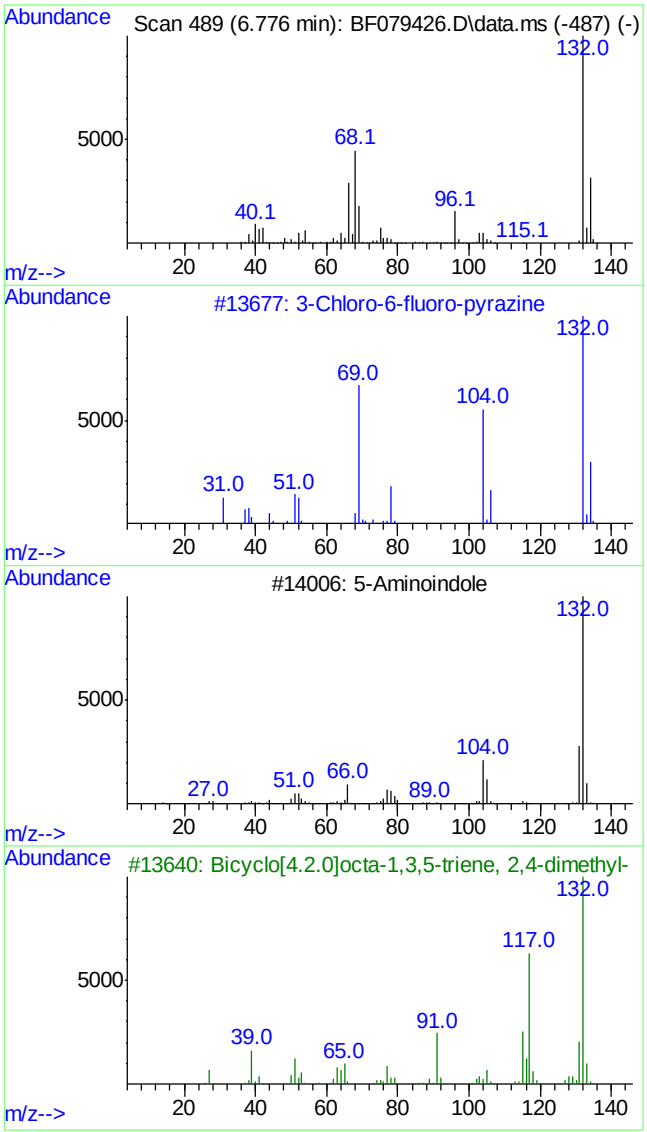
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

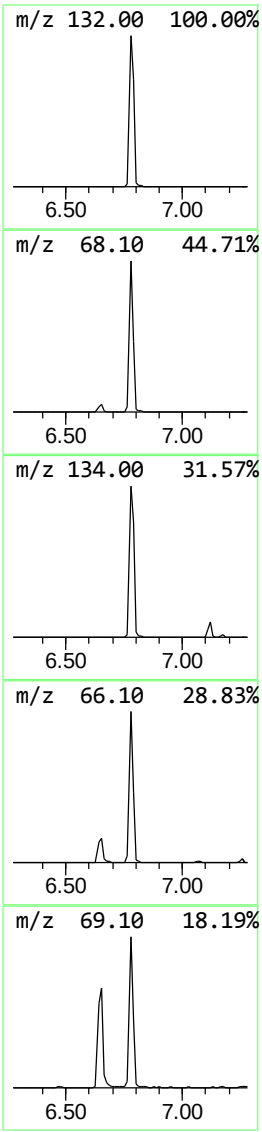
**********

Peak Number 6 unknown6.776 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.776 | 77.98 ng | 1368020 | 1,4-Dichlorobenzene-d4 | 7.073 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

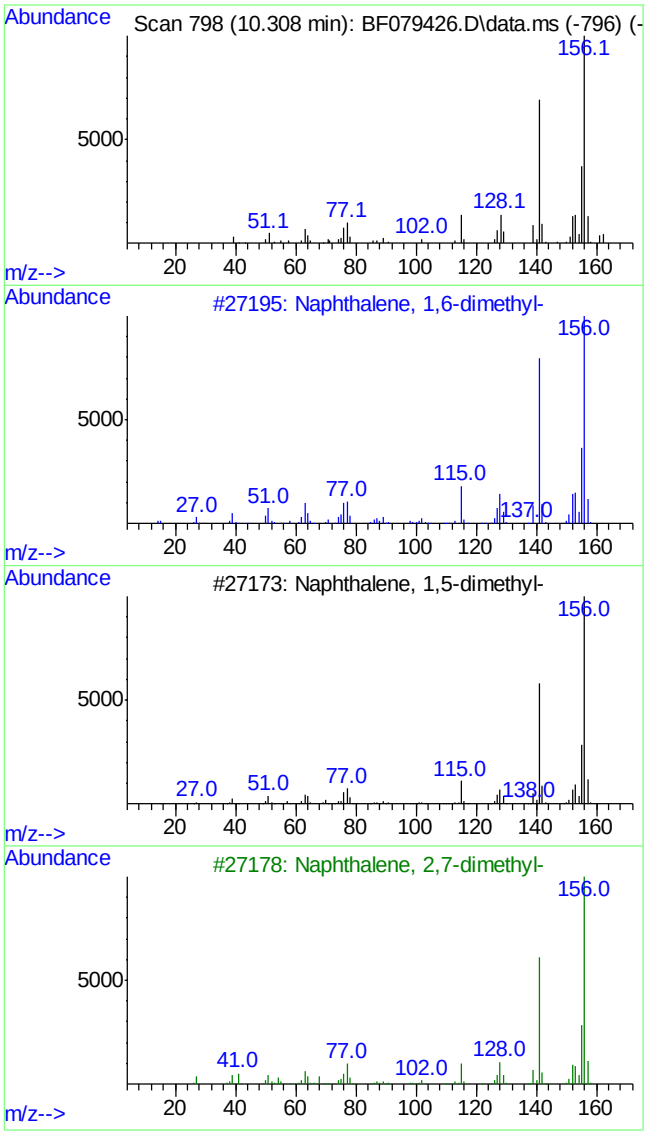
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

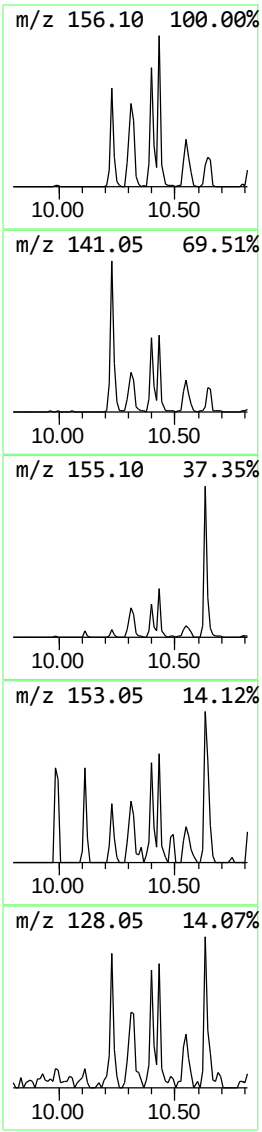
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Naphthalene, 1,6-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.308 | 7.81 ng | 214177 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

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

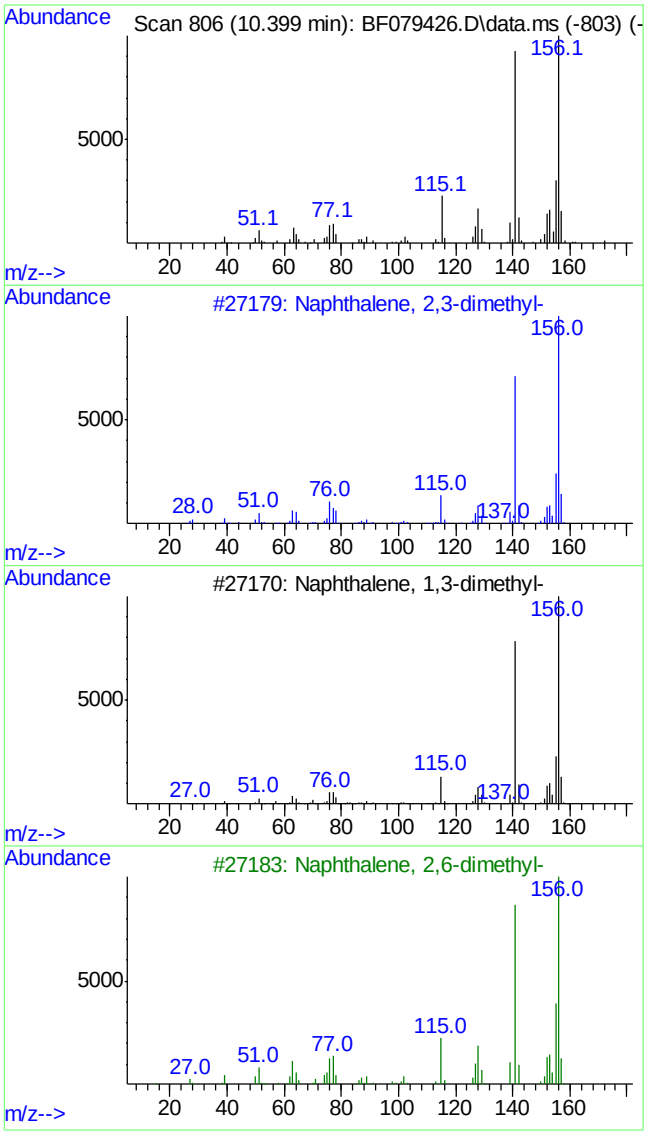
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

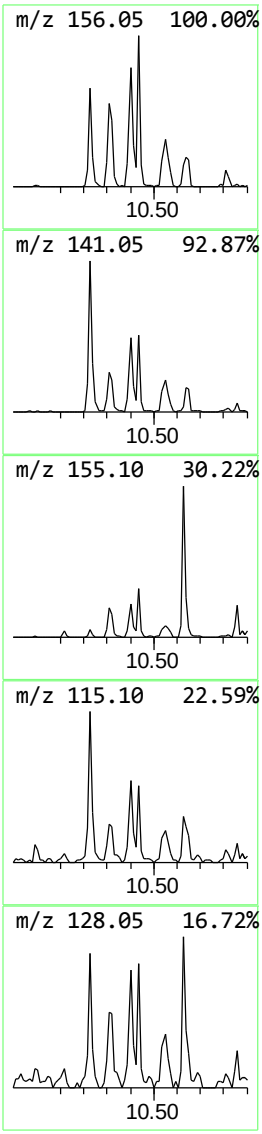
**********

Peak Number 11 Naphthalene, 2,3-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.399 | 8.20 ng | 224971 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

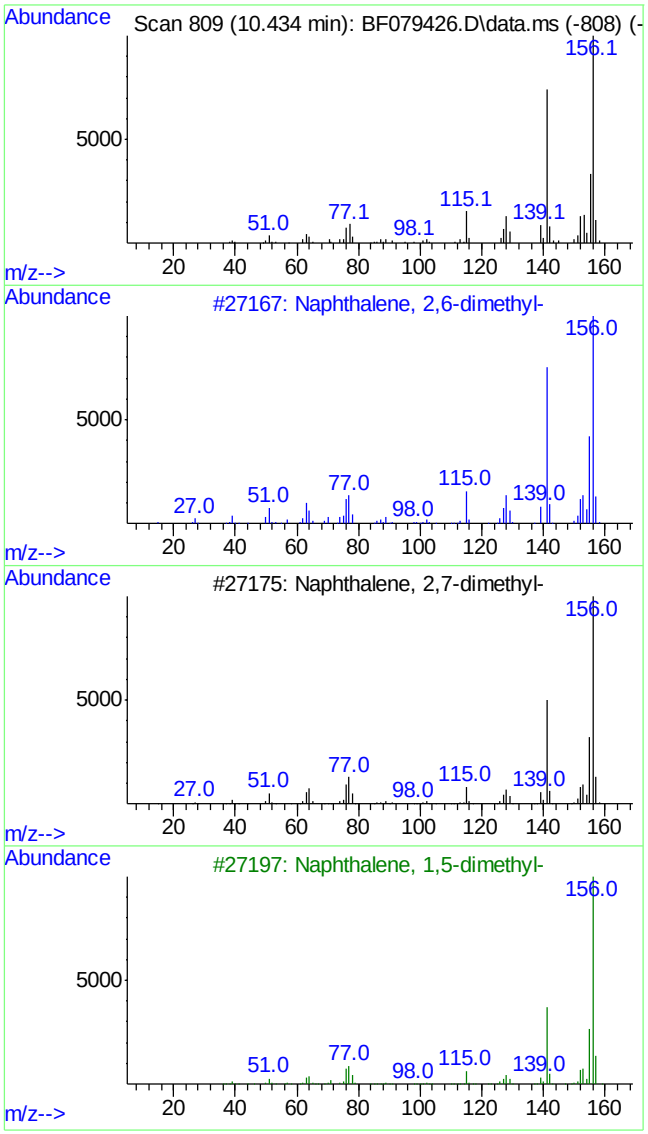
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

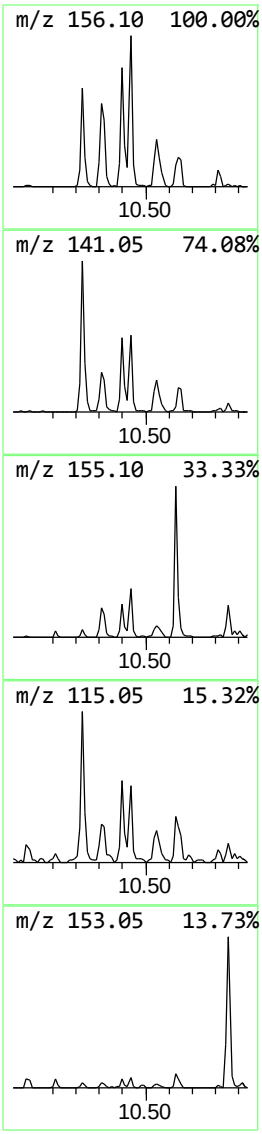
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Naphthalene, 2,6-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.434 | 6.28 ng | 172190 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

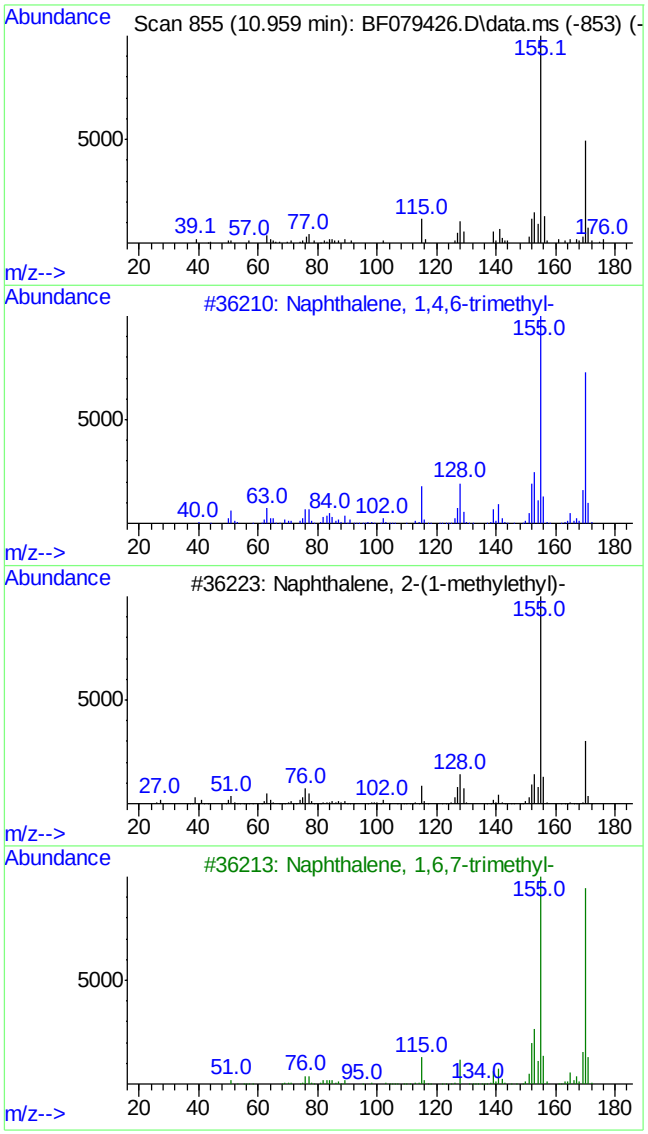
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

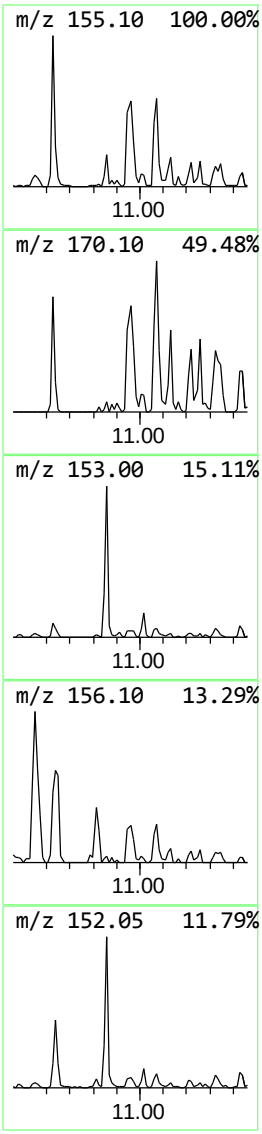
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 Naphthalene, 1,4,6-trimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.959 | 6.90 ng | 189245 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 93 |
| 2 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 89 |
| 4 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 80 |
| 5 | 1'-Acetonaphthone | 170 | C12H10O | 000941-98-0 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

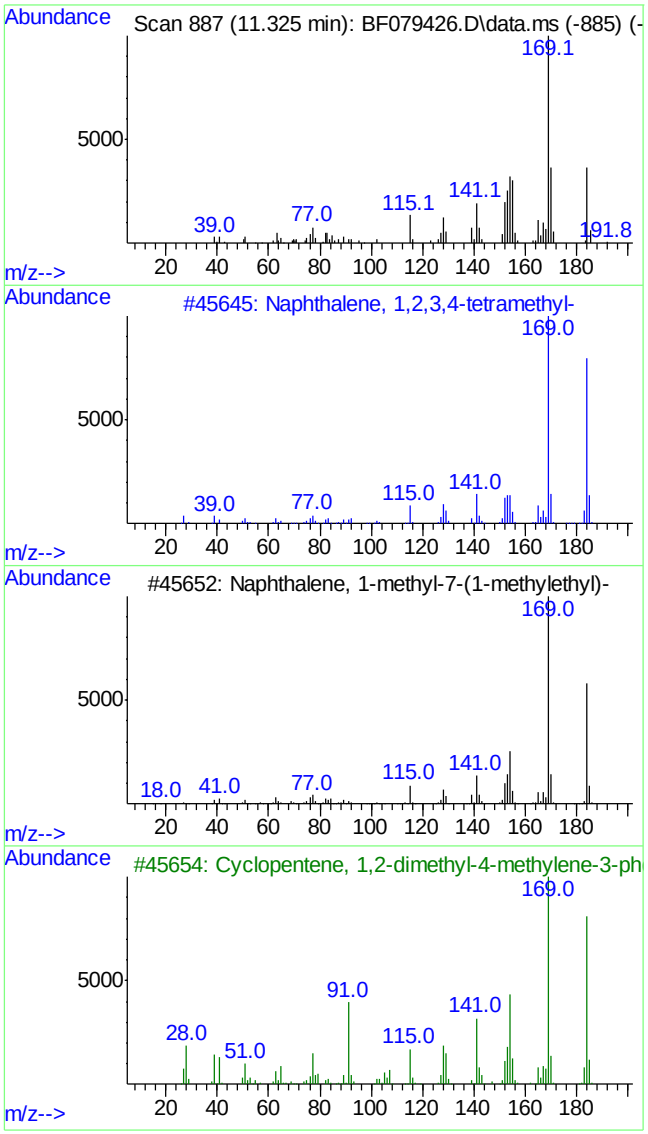
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

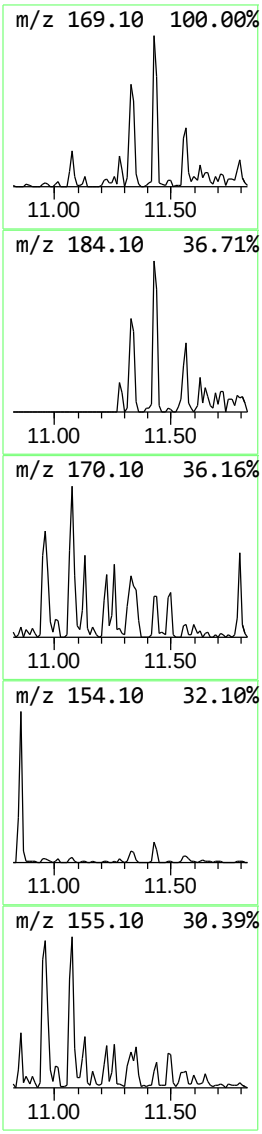
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Naphthalene, 1,2,3,4-tetram... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.325 | 7.73 ng | 212008 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 87 |
| 2 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 81 |
| 3 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 53 |
| 4 | Naphthalene, 2-(1,1-dimethylethyl)- | 184 | C14H16 | 002876-35-9 | 47 |
| 5 | [1,1'-Biphenyl]-4-amine | 169 | C12H11N | 000092-67-1 | 45 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

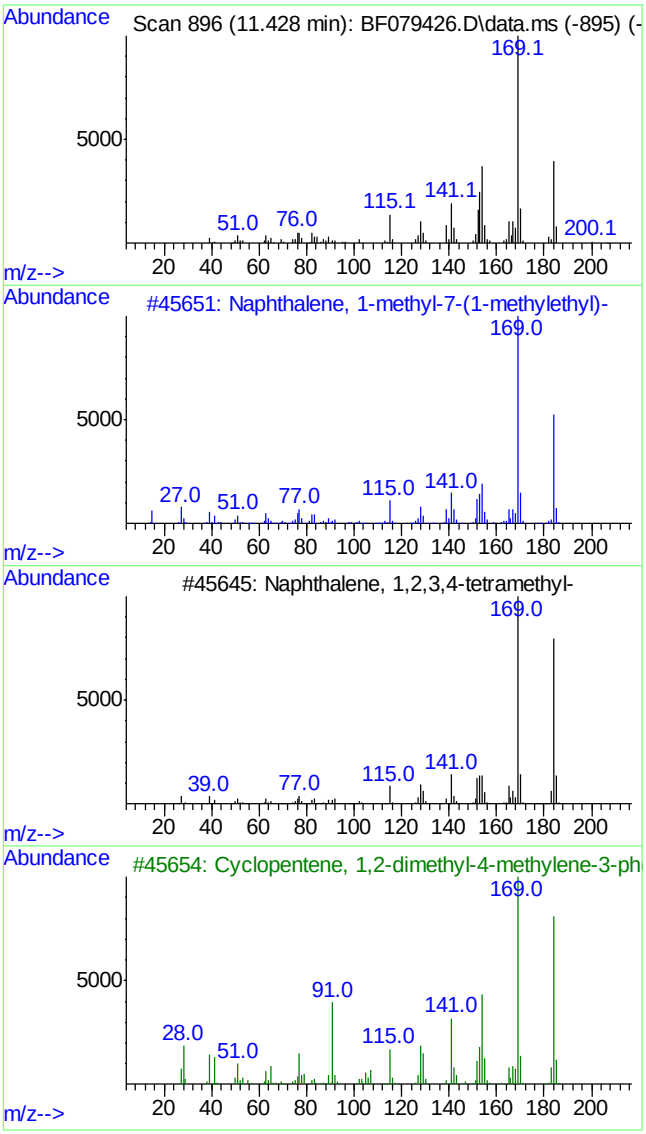
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

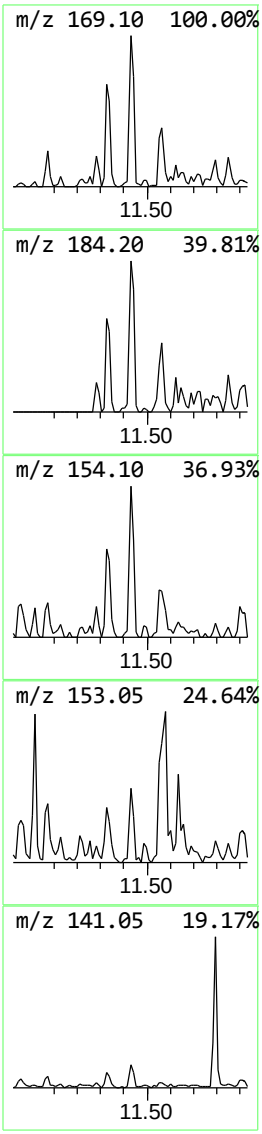
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Naphthalene, 1-methyl-7-(1-... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.428 | 7.85 ng | 215312 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 96 |
| 2 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 94 |
| 3 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 89 |
| 4 | Naphthalene, 1-(1,1-dimethylethyl)- | 184 | C14H16 | 017085-91-5 | 74 |
| 5 | Naphthalene, 2-(1,1-dimethylethyl)- | 184 | C14H16 | 002876-35-9 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

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

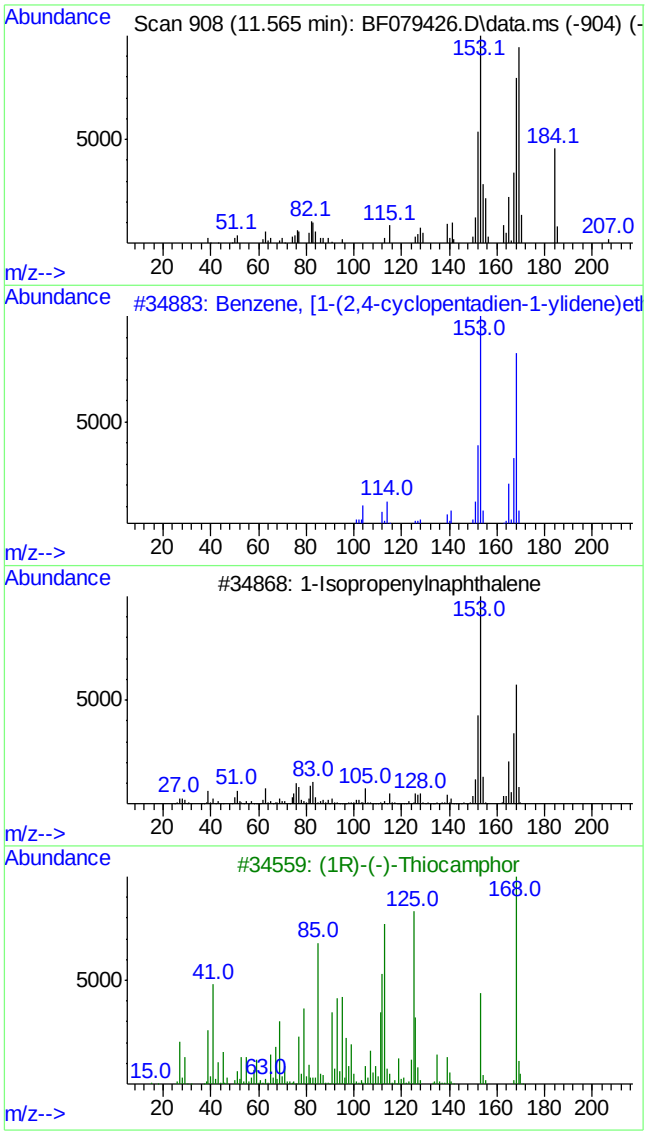
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

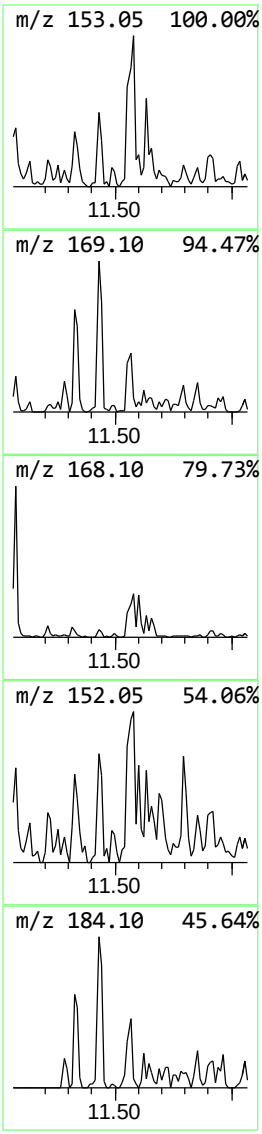
**********

Peak Number 16 unknown11.565 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.565 | 8.19 ng | 224663 | Acenaphthene-d10 | 10.811 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 45 |
| 2 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 43 |
| 3 | (1R)-(-)-Thiocamphor | 168 | C10H16S | 053402-10-1 | 35 |
| 4 | 1,2-Dihydro-5-acenaphthylenamine | 169 | C12H11N | 004657-93-6 | 35 |
| 5 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 35 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

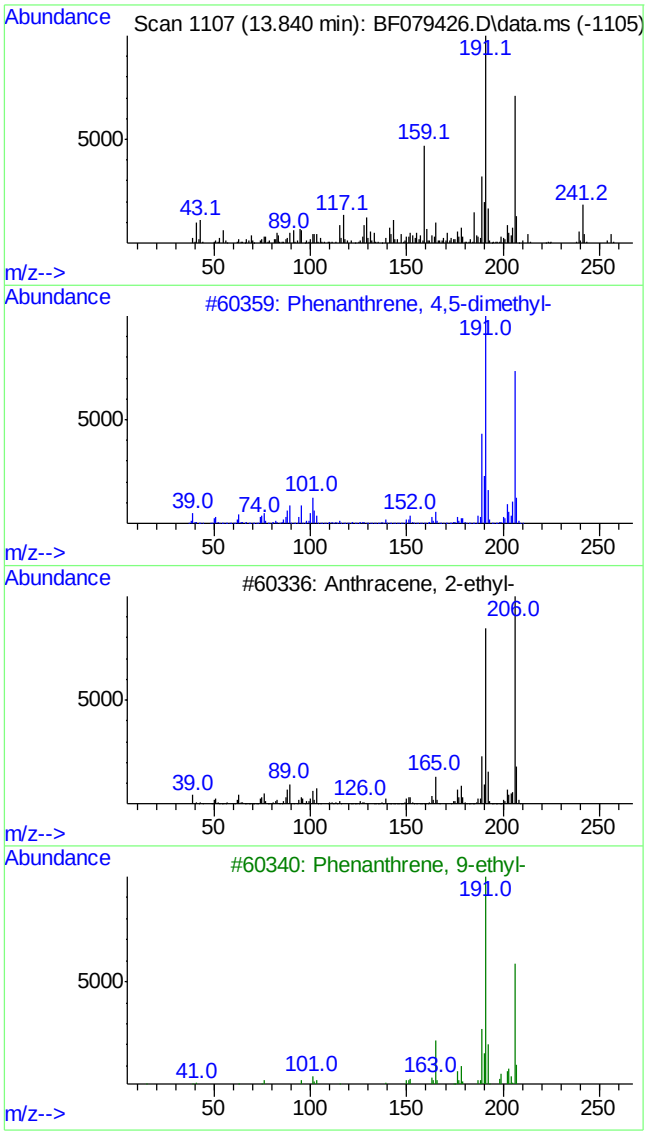
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

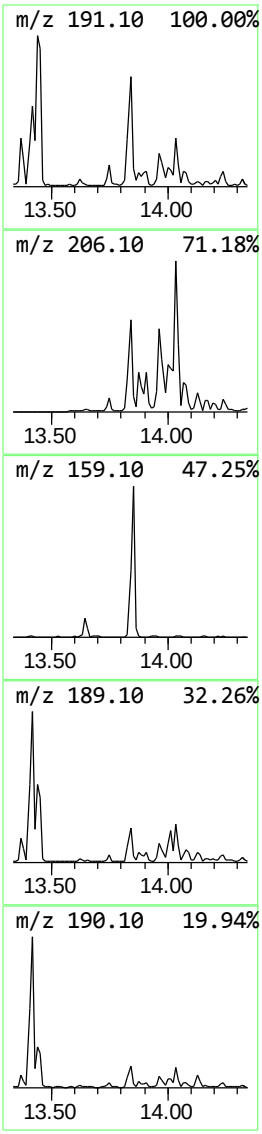
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 Phenanthrene, 4,5-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.840 | 4.84 ng | 711192 | Phenanthrene-d10 | 12.651 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 93 |
| 2 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 83 |
| 3 | Phenanthrene, 9-ethyl- | 206 | C16H14 | 003674-75-7 | 62 |
| 4 | Anthracene, 9-ethyl- | 206 | C16H14 | 000605-83-4 | 60 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 49 |



Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-29D

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

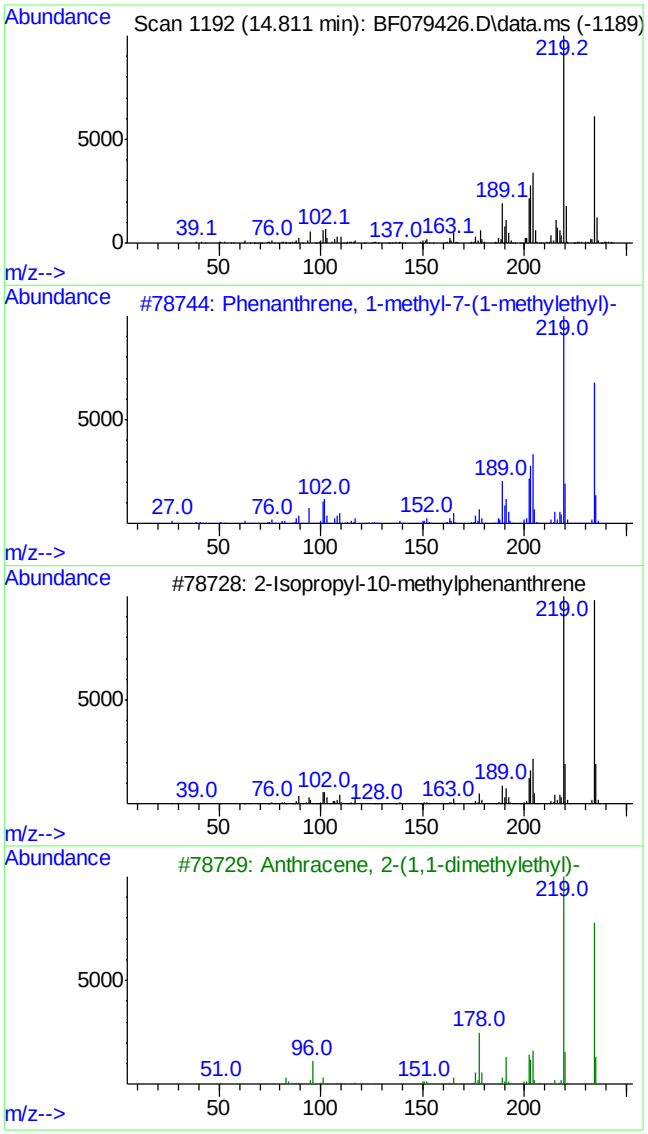
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

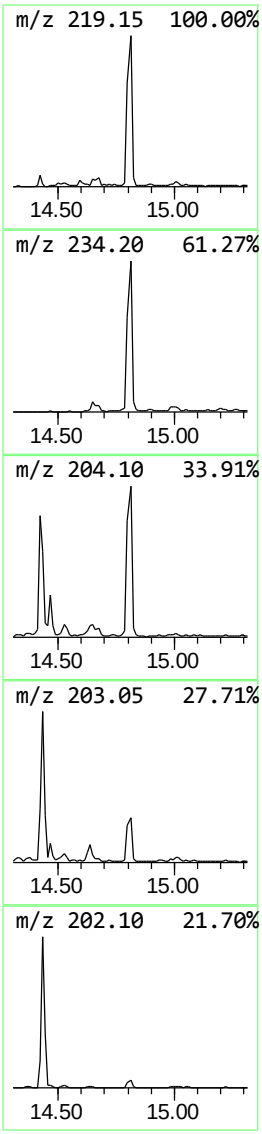
**********

Peak Number 18 Phenanthrene, 1-methyl-7-(1... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.811 | 11.29 ng | 986034 | Chrysene-d12 | 15.943 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl-7-(1-meth... | 234 | C18H18 | 000483-65-8 | 98 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 93 |
| 3 | Anthracene, 2-(1,1-dimethylethyl)- | 234 | C18H18 | 018801-00-8 | 64 |
| 4 | 1-(10-Methylanthracen-9-yl)ethanone | 234 | C17H14O | 036778-18-4 | 58 |
| 5 | Phenanthrene, 2,4,5,7-tetramethyl- | 234 | C18H18 | 007396-38-5 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052115\
Data File : BF079426.D
Acq On : 22 May 2015 7:51
Operator : TP/IZ
Sample : G2289-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-29D

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 |
| Butane, 2-metho... | 1.496 | 19.0 | ng | 333735 | 1 | 7.073 | 350872 | 20.0 |
| 2-Pentanone, 4-... | 4.810 | 7.5 | ng | 131827 | 1 | 7.073 | 350872 | 20.0 |
| unknown6.776 | 6.776 | 78.0 | ng | 1368020 | 1 | 7.073 | 350872 | 20.0 |
| Naphthalene, 1,... | 10.308 | 7.8 | ng | 214177 | 3 | 10.811 | 548588 | 20.0 |
| Naphthalene, 2,... | 10.399 | 8.2 | ng | 224971 | 3 | 10.811 | 548588 | 20.0 |
| Naphthalene, 2,... | 10.434 | 6.3 | ng | 172190 | 3 | 10.811 | 548588 | 20.0 |
| Naphthalene, 1,... | 10.959 | 6.9 | ng | 189245 | 3 | 10.811 | 548588 | 20.0 |
| Naphthalene, 1,... | 11.325 | 7.7 | ng | 212008 | 3 | 10.811 | 548588 | 20.0 |
| Naphthalene, 1-... | 11.428 | 7.8 | ng | 215312 | 3 | 10.811 | 548588 | 20.0 |
| unknown11.565 | 11.565 | 8.2 | ng | 224663 | 3 | 10.811 | 548588 | 20.0 |
| Phenanthrene, 4... | 13.840 | 4.8 | ng | 711192 | 4 | 12.651 | 2935860 | 20.0 |
| Phenanthrene, 1... | 14.811 | 11.3 | ng | 986034 | 5 | 15.943 | 1746890 | 20.0 |