

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
 Data File : BF079455.D  
 Acq On : 23 May 2015 4:33  
 Operator : TP/IZ  
 Sample : G2359-03  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-27D

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 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<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.324       | 9             | 12          | 24           | rVB2     | 121051         | 354199        | 8.10%           | 0.941%        |
| 2         | 1.484       | 24            | 26          | 29           | rVB      | 192076         | 224930        | 5.14%           | 0.597%        |
| 3         | 1.610       | 35            | 37          | 45           | rVB      | 203641         | 325737        | 7.45%           | 0.865%        |
| 4         | 1.712       | 45            | 46          | 87           | rVB      | 2221970        | 4374688       | 100.00%         | 11.621%       |
| 5         | 4.799       | 314           | 316         | 325          | rBV      | 63908          | 116236        | 2.66%           | 0.309%        |
| 6         | 5.324       | 360           | 362         | 374          | rBV      | 810665         | 1167061       | 26.68%          | 3.100%        |
| 7         | 6.627       | 474           | 476         | 486          | rBV      | 998396         | 1252788       | 28.64%          | 3.328%        |
| 8         | 6.764       | 486           | 488         | 491          | rBV      | 1322344        | 1262976       | 28.87%          | 3.355%        |
| 9         | 7.050       | 511           | 513         | 516          | rBV      | 387167         | 373787        | 8.54%           | 0.993%        |
| 10        | 7.233       | 527           | 529         | 532          | rBV      | 971075         | 929721        | 21.25%          | 2.470%        |
| 11        | 7.747       | 572           | 574         | 579          | rBV      | 804174         | 754618        | 17.25%          | 2.005%        |
| 12        | 8.627       | 649           | 651         | 652          | rBV      | 590828         | 522987        | 11.95%          | 1.389%        |
| 13        | 8.650       | 652           | 653         | 655          | rVV      | 154399         | 172321        | 3.94%           | 0.458%        |
| 14        | 8.685       | 655           | 656         | 658          | rVB      | 71709          | 60204         | 1.38%           | 0.160%        |
| 15        | 9.519       | 726           | 729         | 731          | rBV      | 70346          | 81608         | 1.87%           | 0.217%        |
| 16        | 9.633       | 736           | 739         | 744          | rVB      | 76620          | 76188         | 1.74%           | 0.202%        |
| 17        | 9.976       | 767           | 769         | 771          | rBV      | 1369050        | 1330865       | 30.42%          | 3.535%        |
| 18        | 10.388      | 802           | 805         | 806          | rBV      | 45591          | 65330         | 1.49%           | 0.174%        |
| 19        | 10.491      | 811           | 814         | 816          | rVV      | 56888          | 76906         | 1.76%           | 0.204%        |
| 20        | 10.628      | 823           | 826         | 828          | rBV      | 50763          | 66379         | 1.52%           | 0.176%        |
| 21        | 10.799      | 839           | 841         | 842          | rBV      | 445431         | 577370        | 13.20%          | 1.534%        |
| 22        | 10.833      | 842           | 844         | 848          | rVB      | 246007         | 223671        | 5.11%           | 0.594%        |
| 23        | 11.051      | 861           | 863         | 865          | rBV      | 170451         | 172517        | 3.94%           | 0.458%        |
| 24        | 11.131      | 865           | 870         | 872          | rBV2     | 33209          | 76074         | 1.74%           | 0.202%        |
| 25        | 11.473      | 898           | 900         | 903          | rBV      | 221085         | 208549        | 4.77%           | 0.554%        |
| 26        | 11.553      | 903           | 907         | 908          | rBV      | 32726          | 48918         | 1.12%           | 0.130%        |
| 27        | 11.679      | 916           | 918         | 921          | rVB      | 67040          | 79933         | 1.83%           | 0.212%        |
| 28        | 11.771      | 924           | 926         | 930          | rBV      | 939031         | 1065891       | 24.36%          | 2.831%        |
| 29        | 12.159      | 957           | 960         | 962          | rBV3     | 43095          | 74396         | 1.70%           | 0.198%        |
| 30        | 12.319      | 973           | 974         | 980          | rBV3     | 31742          | 96283         | 2.20%           | 0.256%        |
| 31        | 12.399      | 980           | 981         | 984          | rVB      | 119912         | 117223        | 2.68%           | 0.311%        |
| 32        | 12.456      | 984           | 986         | 988          | rBV      | 54222          | 74356         | 1.70%           | 0.198%        |
| 33        | 12.502      | 988           | 990         | 992          | rBV      | 113641         | 107384        | 2.45%           | 0.285%        |
| 34        | 12.628      | 999           | 1001        | 1002         | rBV      | 569221         | 599594        | 13.71%          | 1.593%        |

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 BNA\_F  
 ClientSampleId :  
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Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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 | 12.662 | 1002 | 1004 | 1006 | rVV  | 1953314 | 1887744 | 43.15% | 5.014% |
| 36 | 12.719 | 1006 | 1009 | 1012 | rVV  | 363054  | 517528  | 11.83% | 1.375% |
| 37 | 12.936 | 1026 | 1028 | 1031 | rVB  | 220192  | 208502  | 4.77%  | 0.554% |
| 38 | 13.257 | 1053 | 1056 | 1058 | rBV  | 199263  | 237547  | 5.43%  | 0.631% |
| 39 | 13.291 | 1058 | 1059 | 1062 | rVB  | 247509  | 286961  | 6.56%  | 0.762% |
| 40 | 13.348 | 1062 | 1064 | 1066 | rBV  | 97969   | 143780  | 3.29%  | 0.382% |
| 41 | 13.394 | 1066 | 1068 | 1069 | rVV  | 264509  | 326185  | 7.46%  | 0.866% |
| 42 | 13.428 | 1069 | 1071 | 1075 | rVB  | 122973  | 183011  | 4.18%  | 0.486% |
| 43 | 13.508 | 1075 | 1078 | 1079 | rBV  | 33161   | 63459   | 1.45%  | 0.169% |
| 44 | 13.634 | 1087 | 1089 | 1091 | rBV  | 134568  | 158609  | 3.63%  | 0.421% |
| 45 | 13.668 | 1091 | 1092 | 1096 | rVB2 | 85929   | 91373   | 2.09%  | 0.243% |
| 46 | 13.817 | 1103 | 1105 | 1107 | rBV2 | 51433   | 66691   | 1.52%  | 0.177% |
| 47 | 13.942 | 1113 | 1116 | 1118 | rBV  | 96213   | 138023  | 3.16%  | 0.367% |
| 48 | 13.988 | 1118 | 1120 | 1124 | rVV3 | 70752   | 169244  | 3.87%  | 0.450% |
| 49 | 14.045 | 1124 | 1125 | 1130 | rVB2 | 98641   | 143772  | 3.29%  | 0.382% |
| 50 | 14.137 | 1130 | 1133 | 1135 | rBV  | 1686453 | 1679768 | 38.40% | 4.462% |
| 51 | 14.205 | 1137 | 1139 | 1142 | rVB2 | 70645   | 110181  | 2.52%  | 0.293% |
| 52 | 14.319 | 1146 | 1149 | 1151 | rBV  | 99997   | 128793  | 2.94%  | 0.342% |
| 53 | 14.411 | 1154 | 1157 | 1159 | rBV  | 1459311 | 1648549 | 37.68% | 4.379% |
| 54 | 14.479 | 1159 | 1163 | 1169 | rVB3 | 70879   | 186666  | 4.27%  | 0.496% |
| 55 | 14.571 | 1169 | 1171 | 1173 | rBV  | 94196   | 126684  | 2.90%  | 0.337% |
| 56 | 14.628 | 1173 | 1176 | 1178 | rBV  | 1196093 | 1466485 | 33.52% | 3.895% |
| 57 | 14.697 | 1178 | 1182 | 1184 | rBV2 | 65730   | 113559  | 2.60%  | 0.302% |
| 58 | 14.800 | 1187 | 1191 | 1192 | rBV2 | 82644   | 205948  | 4.71%  | 0.547% |
| 59 | 14.834 | 1192 | 1194 | 1197 | rVB  | 140346  | 176022  | 4.02%  | 0.468% |
| 60 | 14.914 | 1199 | 1201 | 1203 | rVB  | 80161   | 70640   | 1.61%  | 0.188% |
| 61 | 14.960 | 1203 | 1205 | 1210 | rVB  | 167764  | 262509  | 6.00%  | 0.697% |
| 62 | 15.074 | 1213 | 1215 | 1216 | rBV  | 59339   | 85679   | 1.96%  | 0.228% |
| 63 | 15.108 | 1216 | 1218 | 1220 | rBV2 | 69218   | 86097   | 1.97%  | 0.229% |
| 64 | 15.337 | 1234 | 1238 | 1239 | rBV2 | 30527   | 76725   | 1.75%  | 0.204% |
| 65 | 15.462 | 1248 | 1249 | 1252 | rVB  | 101474  | 126831  | 2.90%  | 0.337% |
| 66 | 15.600 | 1258 | 1261 | 1262 | rBV  | 117357  | 149123  | 3.41%  | 0.396% |
| 67 | 15.634 | 1262 | 1264 | 1267 | rVV2 | 124300  | 228718  | 5.23%  | 0.608% |
| 68 | 15.691 | 1267 | 1269 | 1271 | rVB2 | 62069   | 97550   | 2.23%  | 0.259% |
| 69 | 15.725 | 1271 | 1272 | 1275 | rVB  | 124831  | 147505  | 3.37%  | 0.392% |
| 70 | 15.805 | 1275 | 1279 | 1283 | rBV2 | 105915  | 208284  | 4.76%  | 0.553% |
| 71 | 15.908 | 1283 | 1288 | 1290 | rBV2 | 869693  | 1782756 | 40.75% | 4.736% |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-27D

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 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

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 15.942 | 1290 | 1291 | 1293 | rVV  | 611769 | 528922  | 12.09% | 1.405% |
| 73  | 16.034 | 1296 | 1299 | 1301 | rBV  | 95069  | 110975  | 2.54%  | 0.295% |
| 74  | 16.125 | 1301 | 1307 | 1309 | rBV6 | 31178  | 103487  | 2.37%  | 0.275% |
| 75  | 16.171 | 1309 | 1311 | 1313 | rVB  | 77648  | 87274   | 1.99%  | 0.232% |
| 76  | 16.217 | 1313 | 1315 | 1317 | rBV  | 70274  | 110868  | 2.53%  | 0.294% |
| 77  | 16.354 | 1325 | 1327 | 1329 | rBV  | 43910  | 56480   | 1.29%  | 0.150% |
| 78  | 16.400 | 1329 | 1331 | 1333 | rVV  | 132721 | 191734  | 4.38%  | 0.509% |
| 79  | 16.445 | 1333 | 1335 | 1338 | rVV  | 67087  | 96037   | 2.20%  | 0.255% |
| 80  | 16.514 | 1338 | 1341 | 1343 | rVV2 | 60966  | 115271  | 2.63%  | 0.306% |
| 81  | 16.548 | 1343 | 1344 | 1348 | rVV3 | 55126  | 144012  | 3.29%  | 0.383% |
| 82  | 16.617 | 1348 | 1350 | 1352 | rVV2 | 43377  | 83001   | 1.90%  | 0.220% |
| 83  | 16.663 | 1352 | 1354 | 1357 | rVB  | 51798  | 70277   | 1.61%  | 0.187% |
| 84  | 16.800 | 1362 | 1366 | 1369 | rBV3 | 48642  | 124882  | 2.85%  | 0.332% |
| 85  | 17.005 | 1380 | 1384 | 1389 | rBV3 | 45334  | 135654  | 3.10%  | 0.360% |
| 86  | 17.177 | 1396 | 1399 | 1404 | rBV  | 530203 | 1165784 | 26.65% | 3.097% |
| 87  | 17.291 | 1404 | 1409 | 1411 | rVB2 | 104304 | 161071  | 3.68%  | 0.428% |
| 88  | 17.405 | 1416 | 1419 | 1420 | rBV  | 48359  | 90813   | 2.08%  | 0.241% |
| 89  | 17.485 | 1423 | 1426 | 1429 | rVB  | 254905 | 397411  | 9.08%  | 1.056% |
| 90  | 17.543 | 1429 | 1431 | 1434 | rVB  | 521651 | 614255  | 14.04% | 1.632% |
| 91  | 17.600 | 1434 | 1436 | 1441 | rBV2 | 557464 | 833353  | 19.05% | 2.214% |
| 92  | 17.908 | 1459 | 1463 | 1465 | rBV2 | 26784  | 73836   | 1.69%  | 0.196% |
| 93  | 18.011 | 1469 | 1472 | 1474 | rBV  | 25438  | 48131   | 1.10%  | 0.128% |
| 94  | 18.788 | 1536 | 1540 | 1543 | rBV3 | 33963  | 91896   | 2.10%  | 0.244% |
| 95  | 18.937 | 1550 | 1553 | 1558 | rVB2 | 209712 | 462196  | 10.57% | 1.228% |
| 96  | 19.097 | 1565 | 1567 | 1570 | rBV  | 63831  | 138650  | 3.17%  | 0.368% |
| 97  | 19.154 | 1570 | 1572 | 1574 | rVB  | 44836  | 77466   | 1.77%  | 0.206% |
| 98  | 19.326 | 1584 | 1587 | 1592 | rBV  | 172205 | 366423  | 8.38%  | 0.973% |
| 99  | 19.543 | 1603 | 1606 | 1615 | rVB  | 53274  | 171139  | 3.91%  | 0.455% |
| 100 | 21.326 | 1758 | 1762 | 1763 | rBV3 | 45187  | 95706   | 2.19%  | 0.254% |

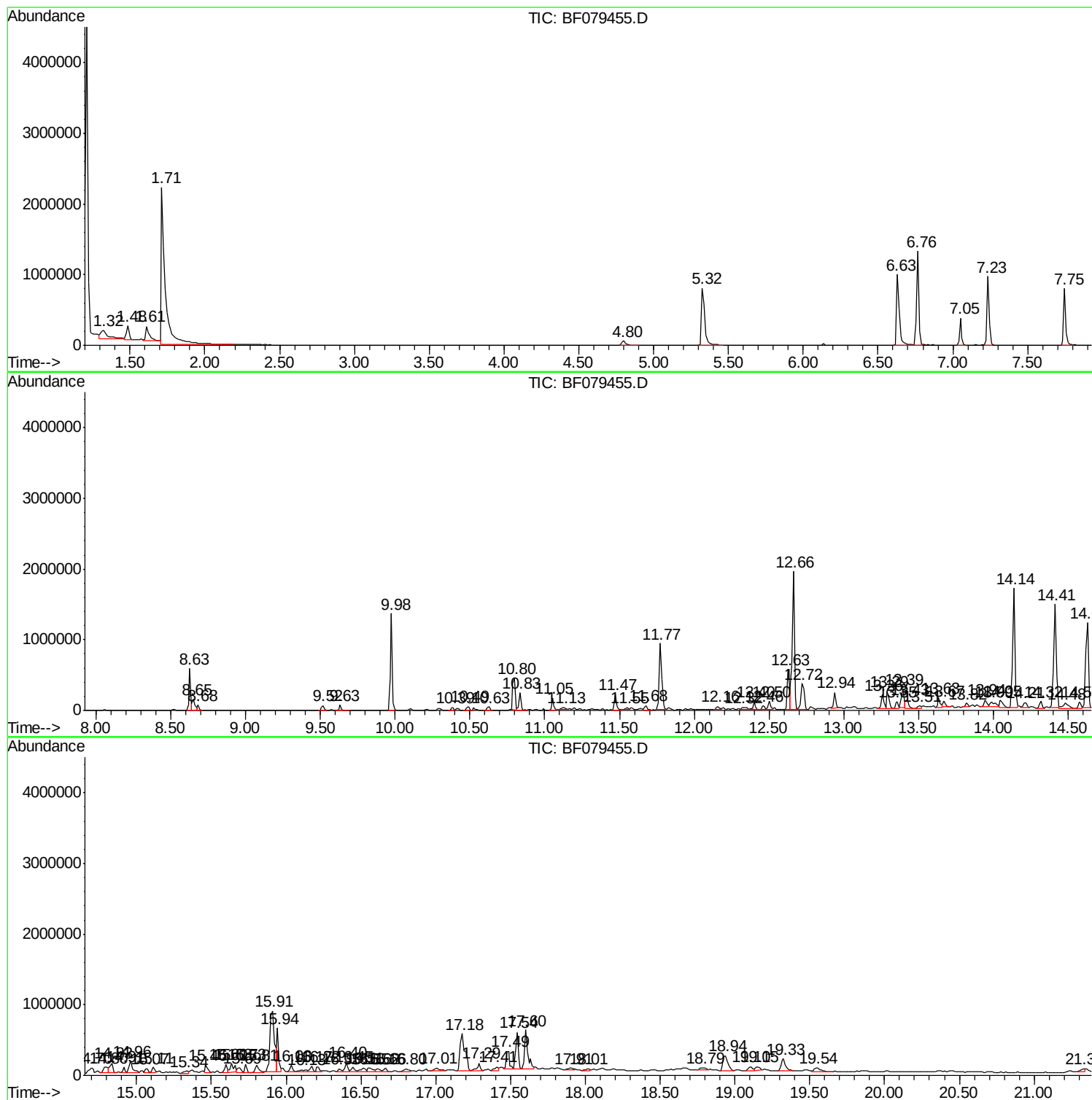
Sum of corrected areas: 37646193

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Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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\BF052215\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

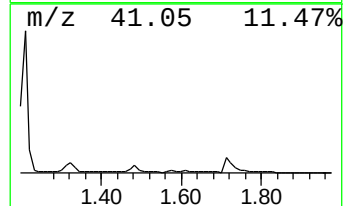
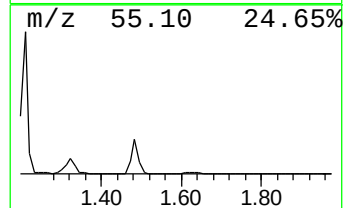
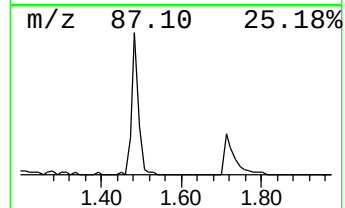
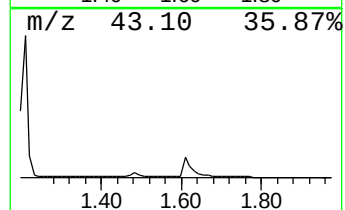
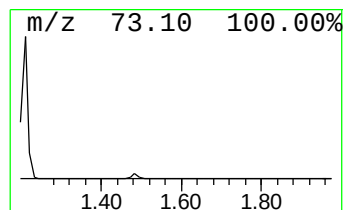
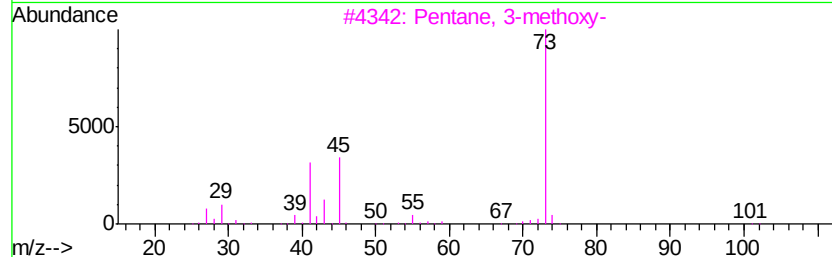
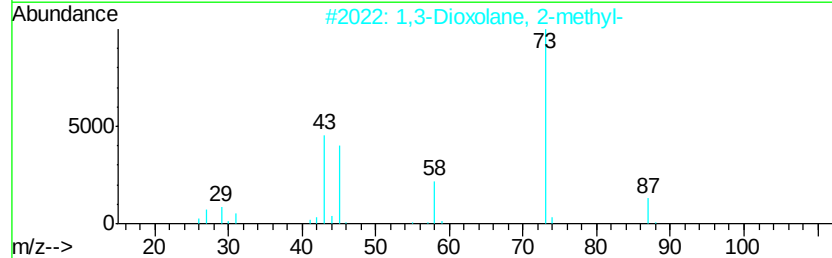
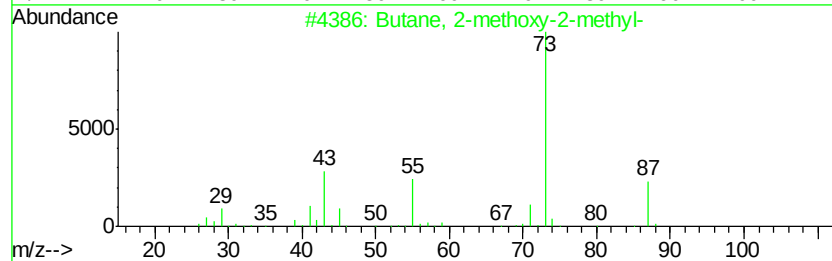
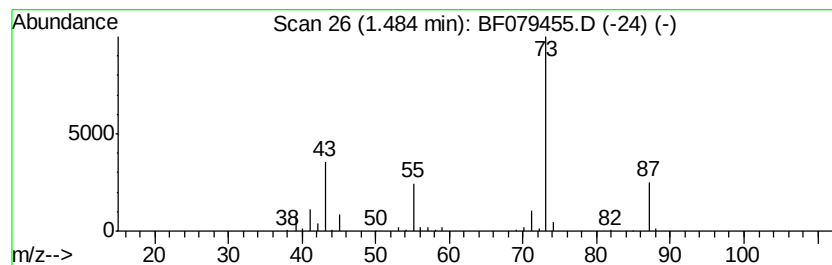
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.48 | 12.04 ng | 224930 | 1,4-Dichlorobenzene-d4 | 7.05 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |
| 5    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 10   |



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

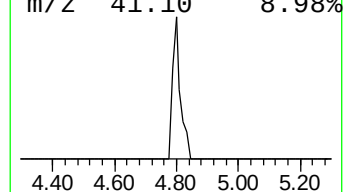
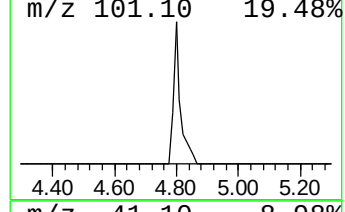
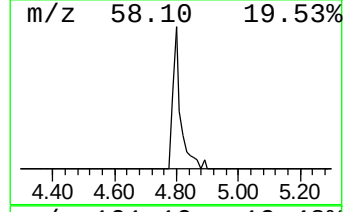
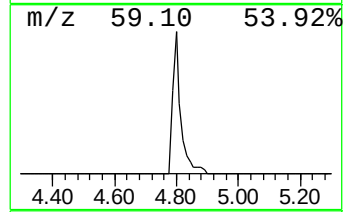
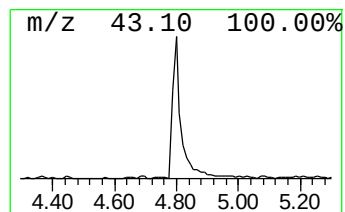
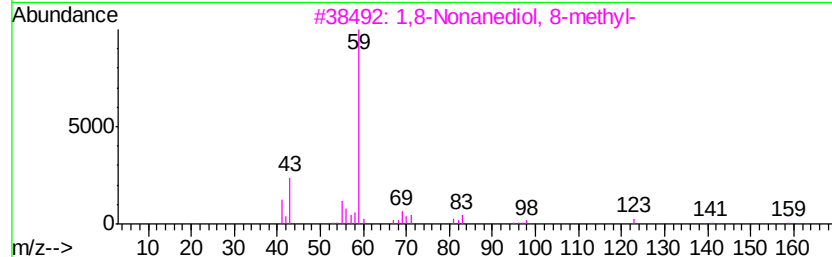
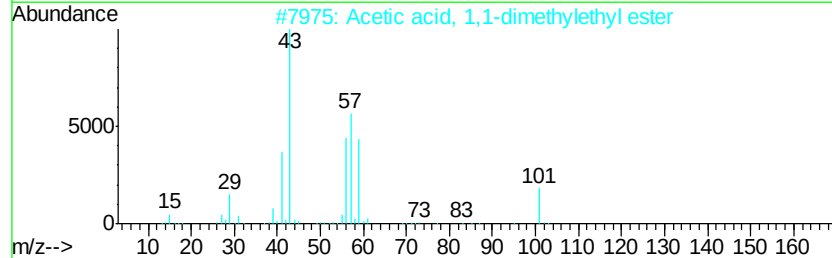
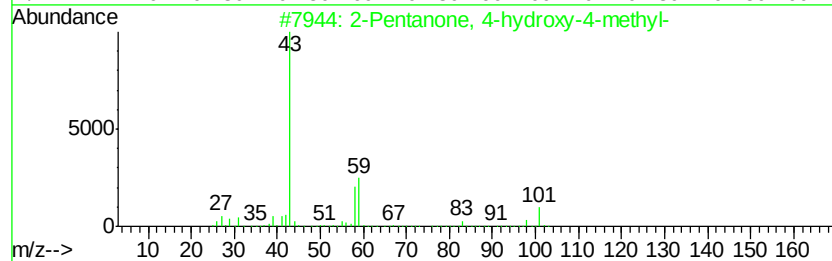
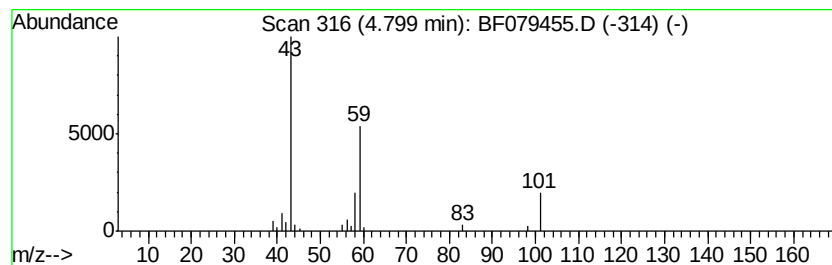
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.80 | 6.22 ng | 116236 | 1,4-Dichlorobenzene-d4 | 7.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 38   |
| 3    |    | 1,8-Nonanediol, 8-methyl-           | 174 | C10H22O2 | 054725-73-4 | 23   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 5    |    | Butyl aldoxime, 3-methyl-, syn-     | 101 | C5H11NO  | 005780-40-5 | 12   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

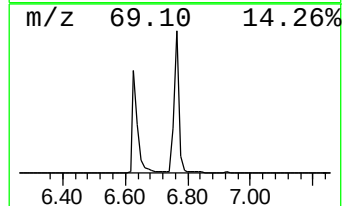
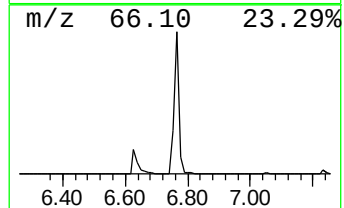
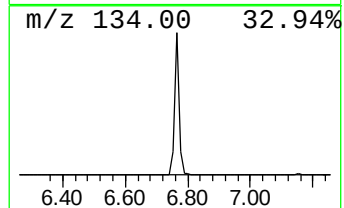
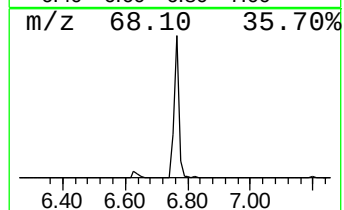
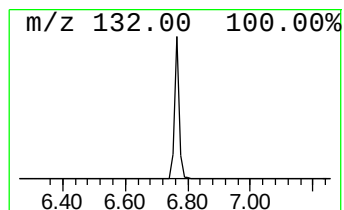
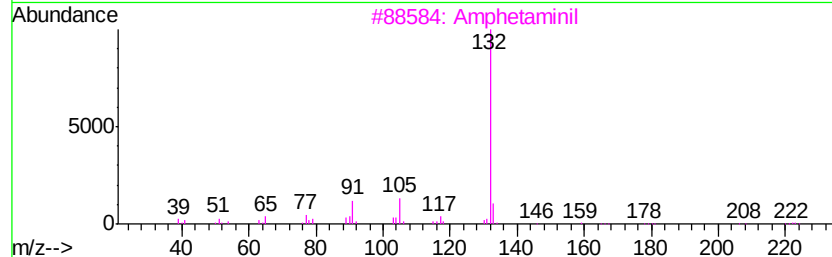
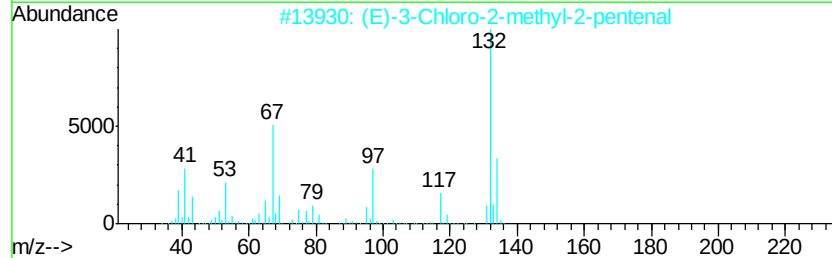
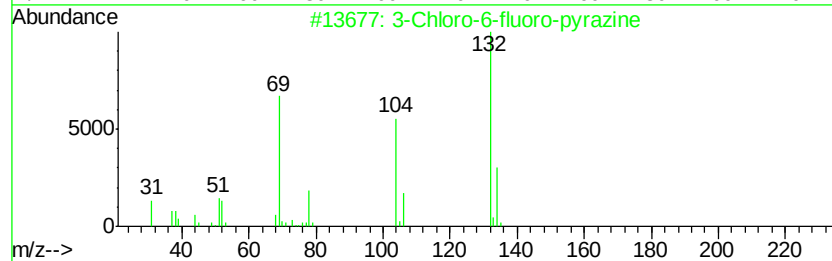
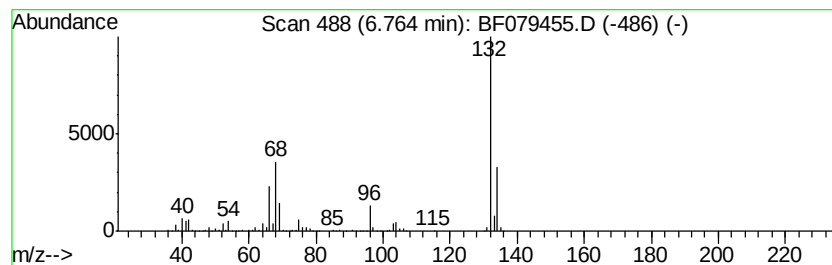
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown6.76 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.76 | 67.58 ng | 1262980 | 1,4-Dichlorobenzene-d4 | 7.05 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 3    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 12   |
| 4    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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

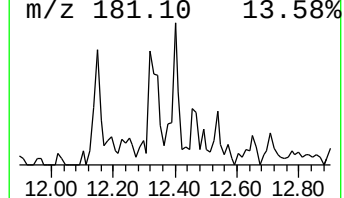
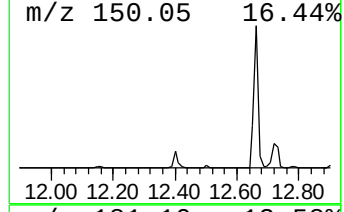
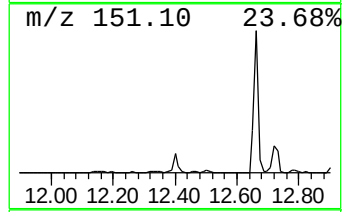
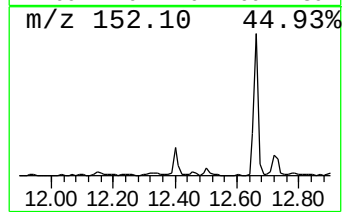
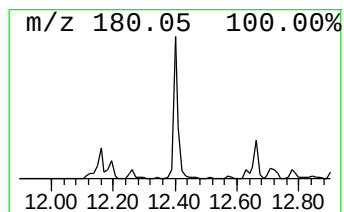
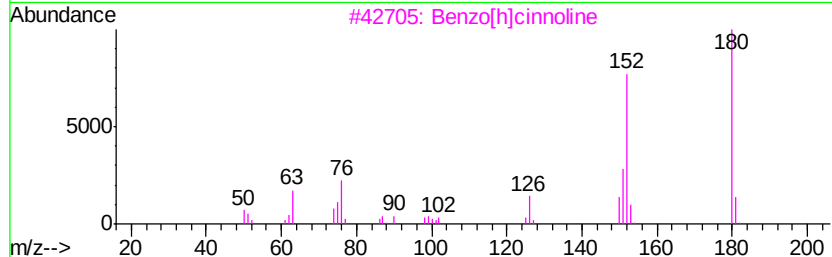
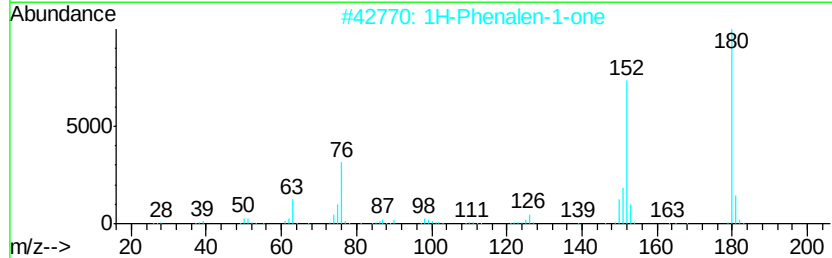
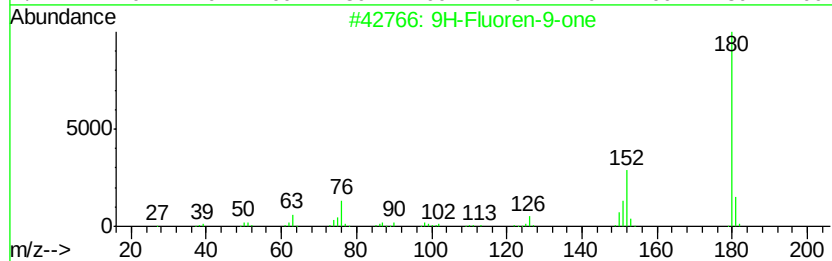
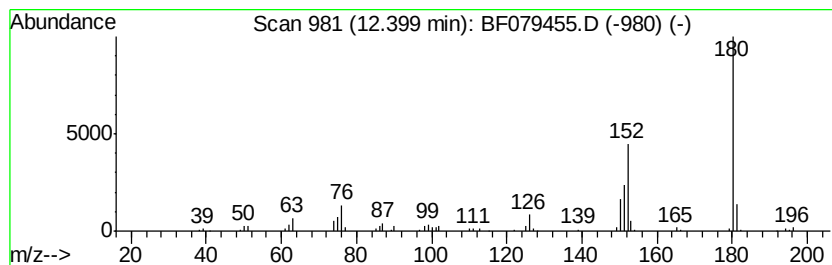
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 9H-Fluoren-9-one Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.40 | 3.91 ng | 117223 | Phenanthrene-d10 | 12.63 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------|-----|---------|-------------|------|
| 1       |   | 9H-Fluoren-9-one          | 180 | C13H8O  | 000486-25-9 | 96   |
| 2       |   | 1H-Phenalen-1-one         | 180 | C13H8O  | 000548-39-0 | 58   |
| 3       |   | Benzo[h]cinnoline         | 180 | C12H8N2 | 000230-31-9 | 58   |
| 4       |   | 2,3-Diazaphenanthrene     | 180 | C12H8N2 | 000229-72-1 | 53   |
| 5       |   | 1,1'-Biphenyl, 4-ethenyl- | 180 | C14H12  | 002350-89-2 | 50   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
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Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

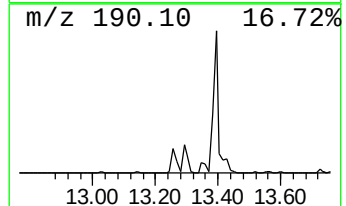
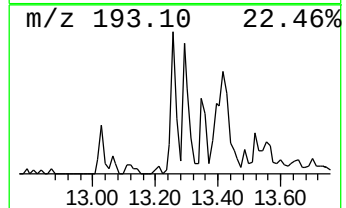
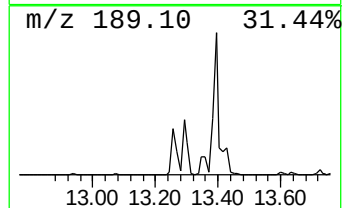
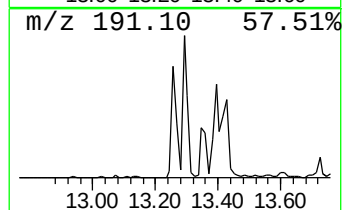
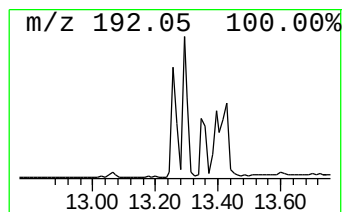
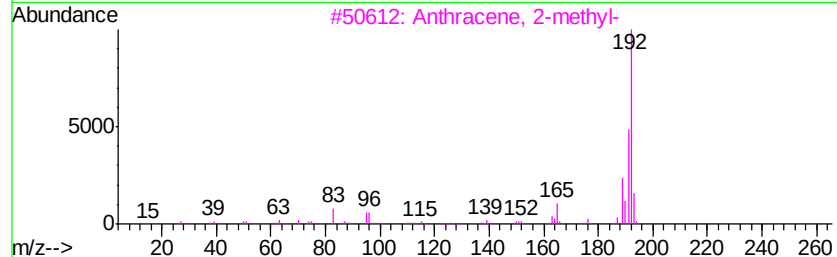
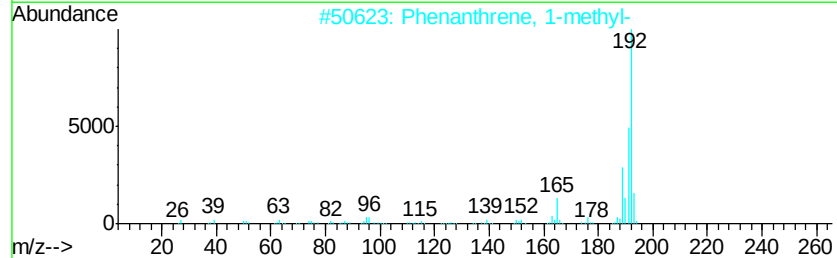
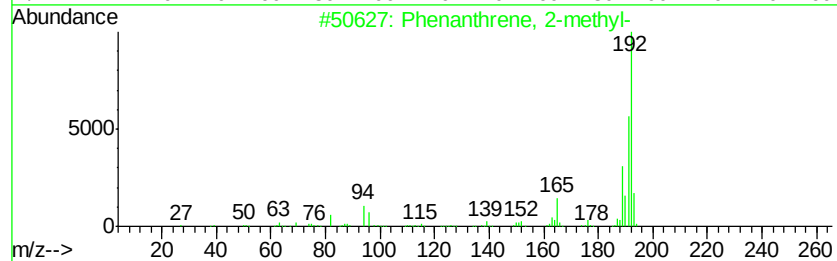
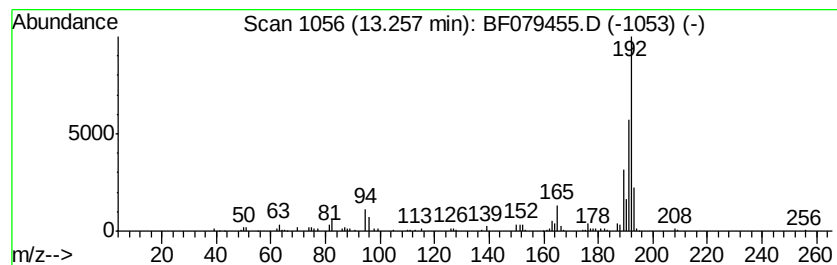
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ClientSampleId :  
SB-27D

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

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Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 13.26     | 7.92 ng                               | 237547 | Phenanthrene-d10 | 12.63       |      |
| 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         | 1H-Cyclopropa[1,1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 94   |
| 5         | Anthracene, 9-methyl-                 | 192    | C15H12           | 000779-02-2 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

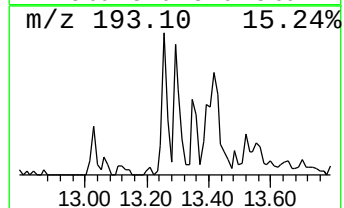
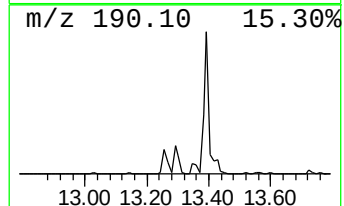
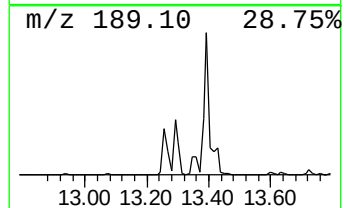
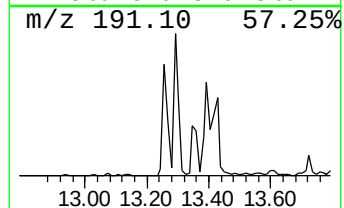
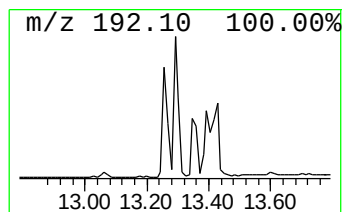
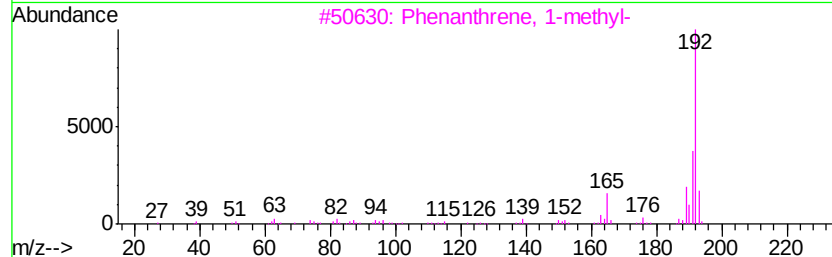
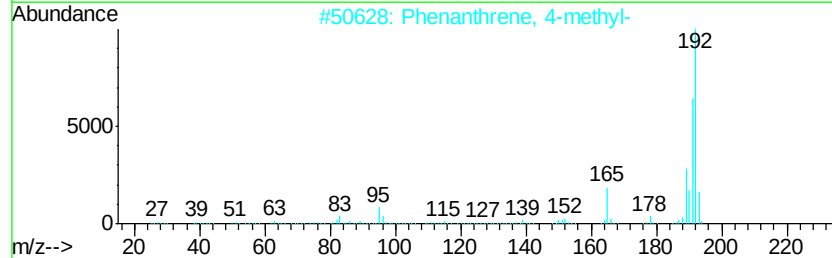
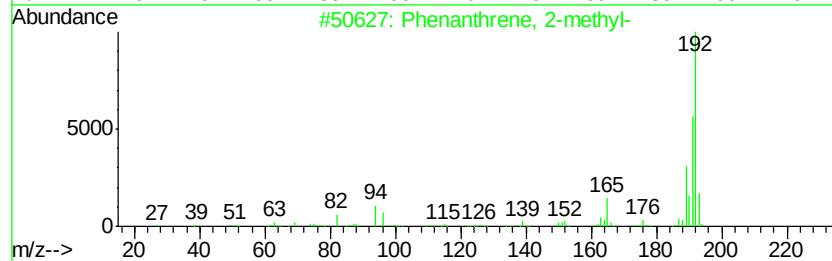
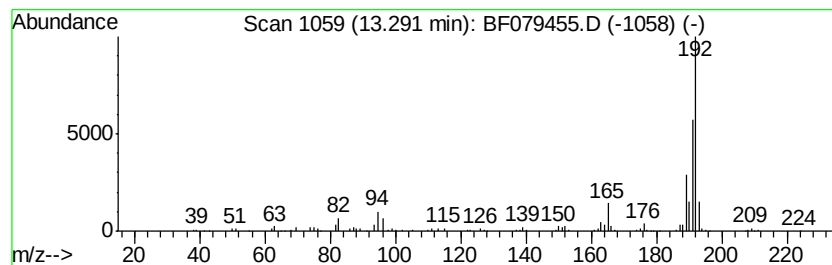
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.29 | 9.57 ng | 286961 | Phenanthrene-d10 | 12.63 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 95   |
| 3    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 4    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 94   |
| 5    |    | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
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ClientSampleId :  
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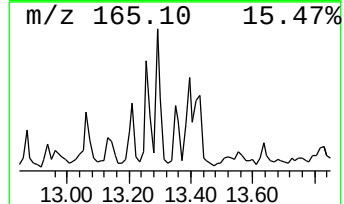
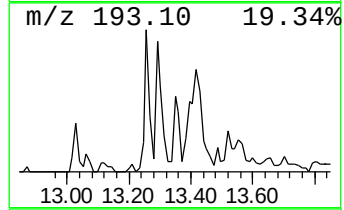
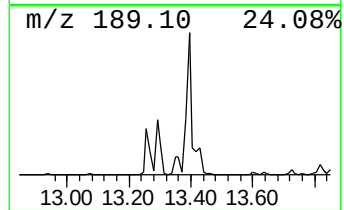
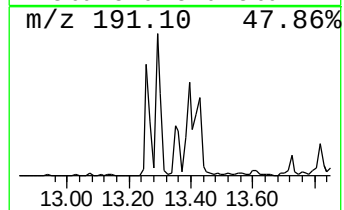
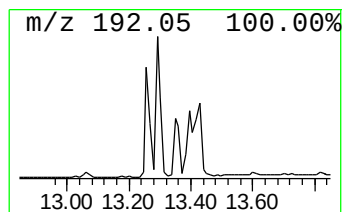
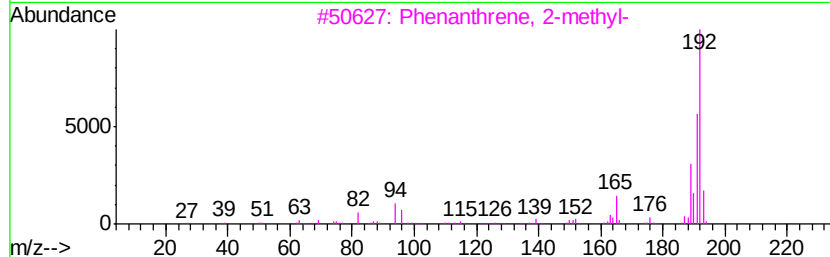
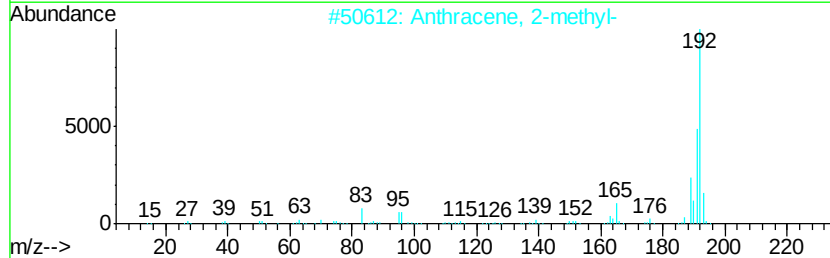
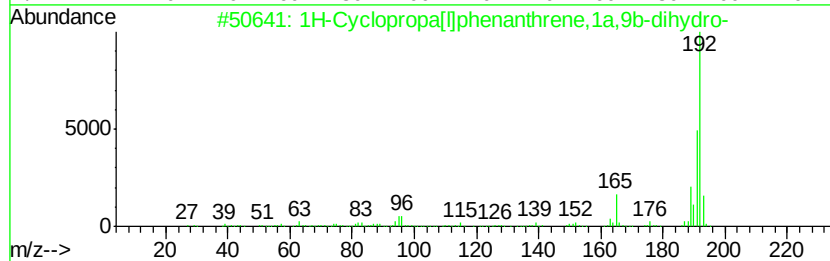
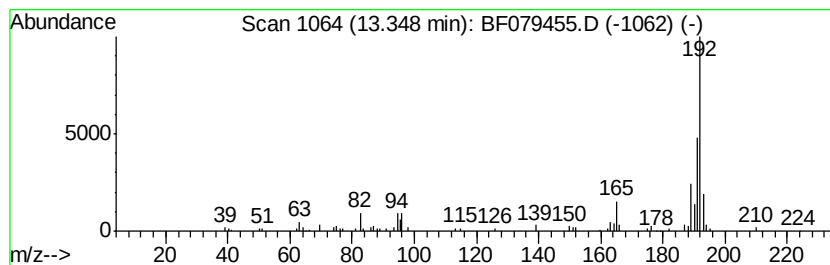
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.35 | 4.80 ng | 143780 | Phenanthrene-d10 | 12.63 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 96   |
| 2    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    | Naphtho[2,3-b]norbornadiene           | 192 | C15H12  | 107426-38-0 | 95   |
| 5    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 94   |



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Sample : G2359-03  
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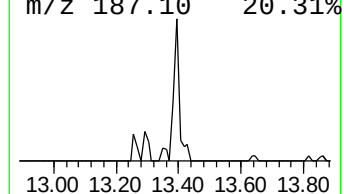
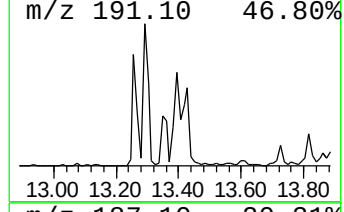
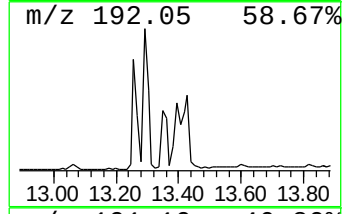
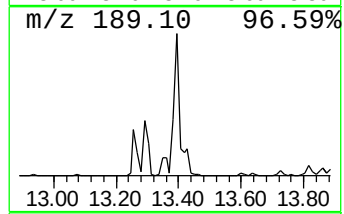
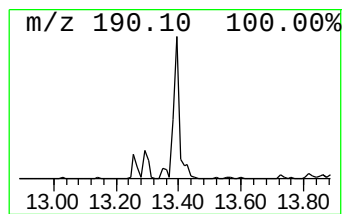
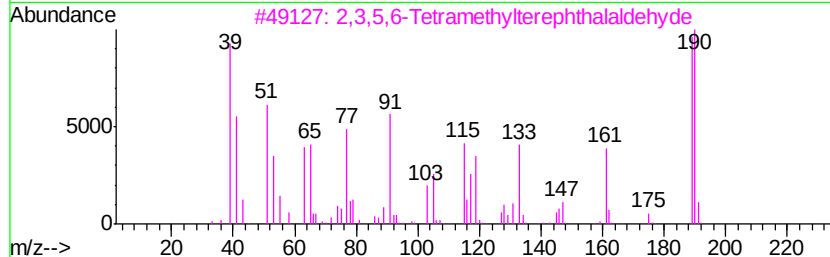
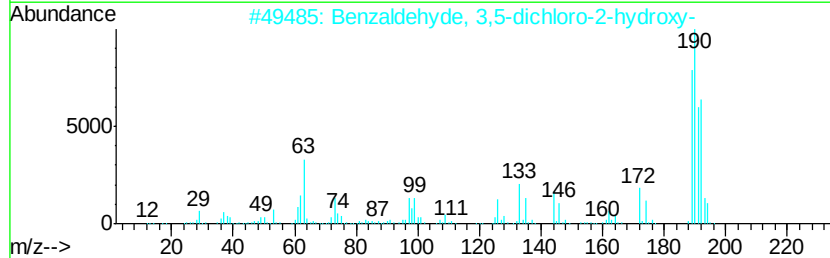
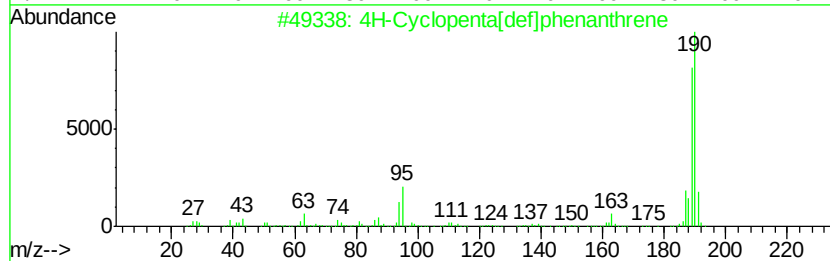
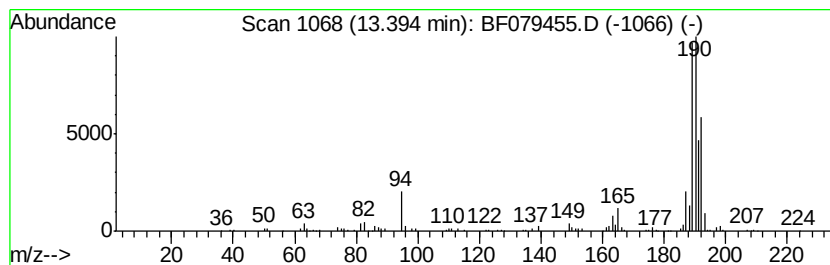
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ClientSampleId :  
SB-27D

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

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Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.39     | 10.88 ng                            | 326185 | Phenanthrene-d10 | 12.63       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 60   |
| 2         | Benzaldehyde, 3,5-dichloro-2-hyd... | 190    | C7H4Cl2O2        | 000090-60-8 | 40   |
| 3         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 38   |
| 4         | 5H-Dibenzo[a,d]cycloheptene         | 192    | C15H12           | 000256-81-5 | 30   |
| 5         | 1H-Indene, 2-phenyl-                | 192    | C15H12           | 004505-48-0 | 25   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
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Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

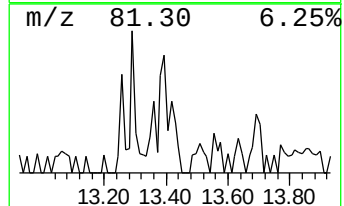
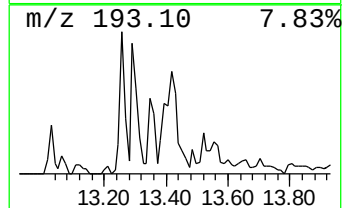
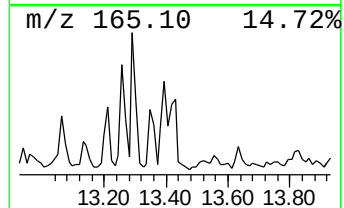
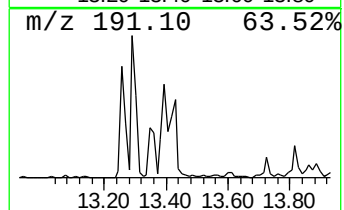
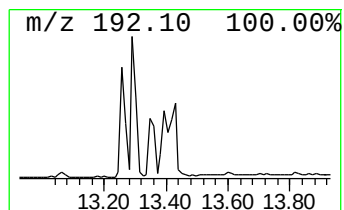
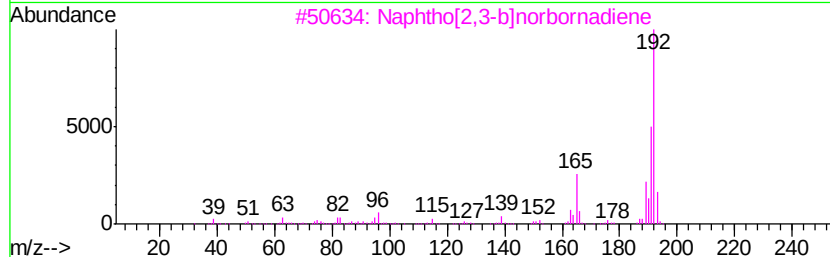
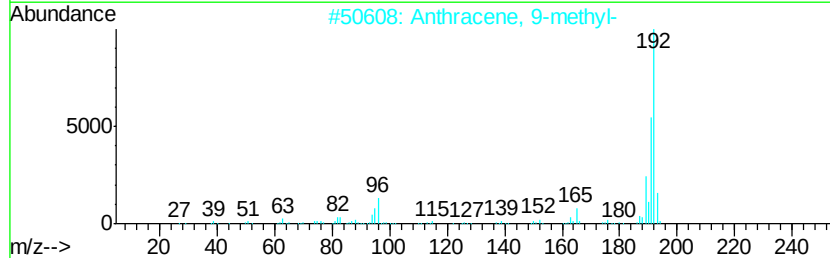
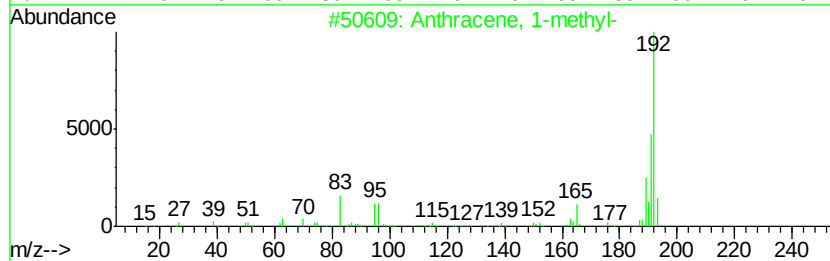
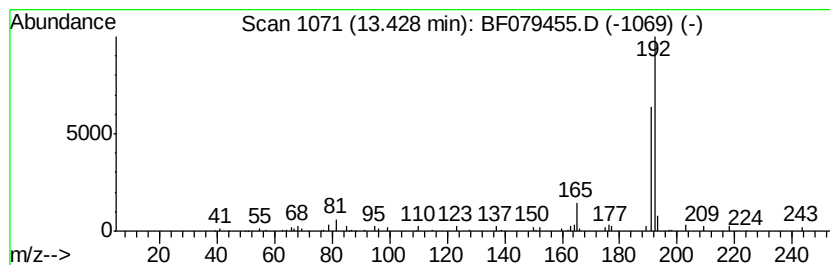
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Anthracene, 1-methyl- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.43 | 6.10 ng | 183011 | Phenanthrene-d10 | 12.63 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-       | 192 | C15H12  | 000610-48-0 | 80   |
| 2    |    |   | Anthracene, 9-methyl-       | 192 | C15H12  | 000779-02-2 | 72   |
| 3    |    |   | Naphtho[2,3-b]norbornadiene | 192 | C15H12  | 107426-38-0 | 72   |
| 4    |    |   | Propyne, 1,3-diphenyl-      | 192 | C15H12  | 004980-70-5 | 72   |
| 5    |    |   | Phenanthrene, 4-methyl-     | 192 | C15H12  | 000832-64-4 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

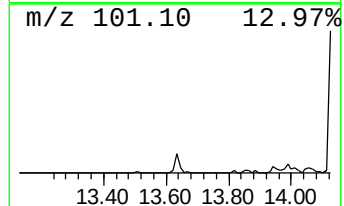
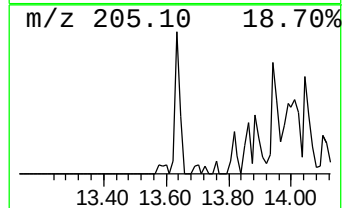
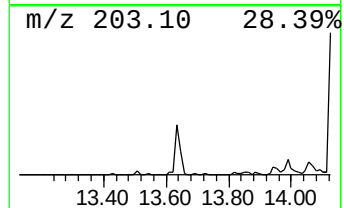
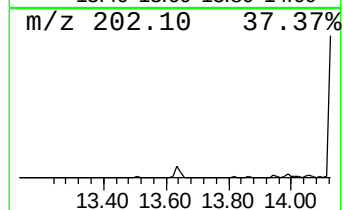
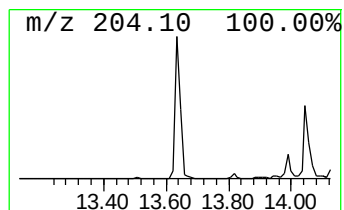
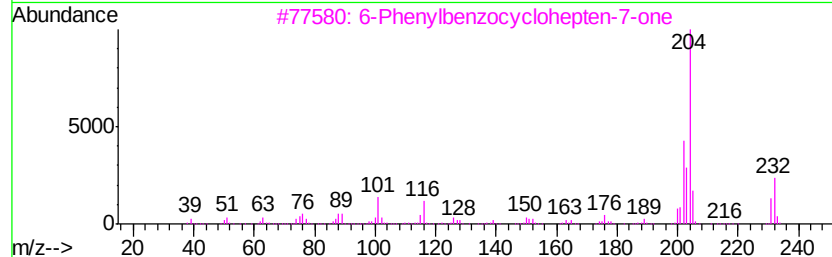
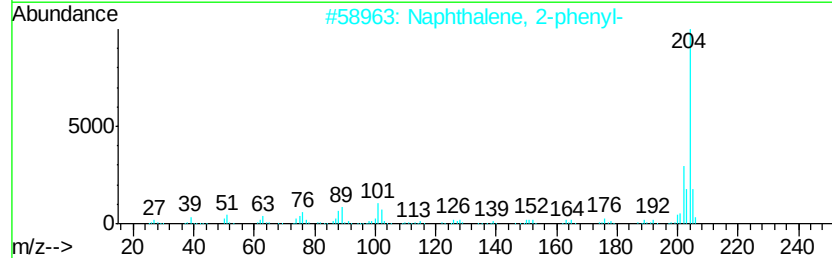
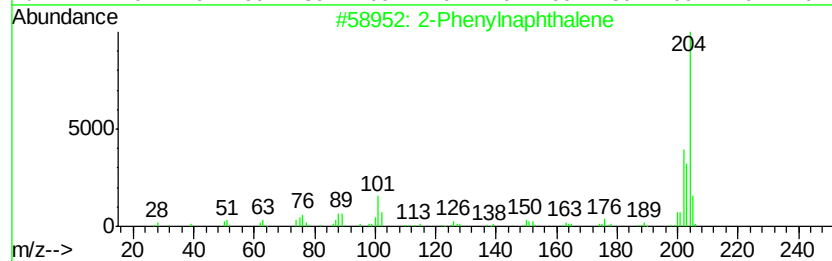
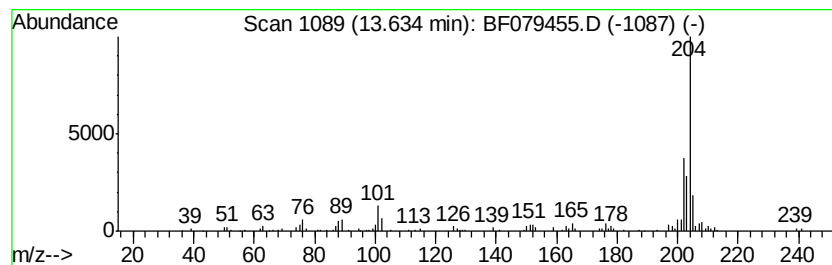
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ClientSampleId :  
SB-27D

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

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Peak Number 14 2-Phenylnaphthalene Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.63     | 5.29 ng                             | 158609 | Phenanthrene-d10 | 12.63       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2-Phenylnaphthalene                 | 204    | C16H12           | 035465-71-5 | 93   |
| 2         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2 | 92   |
| 3         | 6-Phenylbenzocyclohepten-7-one      | 232    | C17H12O          | 093327-56-1 | 80   |
| 4         | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204    | C16H12           | 006572-60-7 | 76   |
| 5         | 6-Cyanophenanthridine               | 204    | C14H8N2          | 002176-28-5 | 60   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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

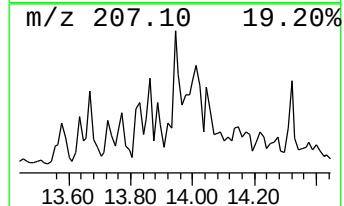
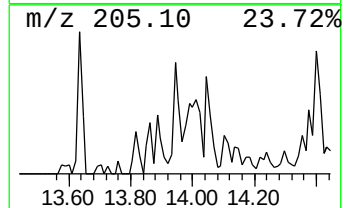
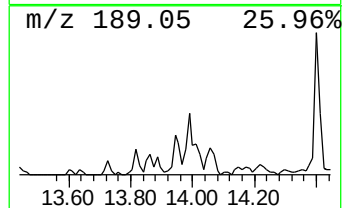
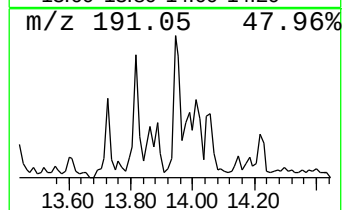
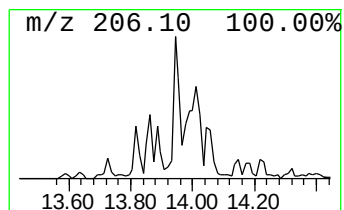
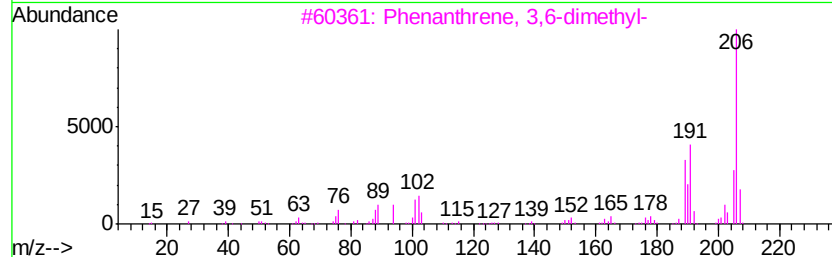
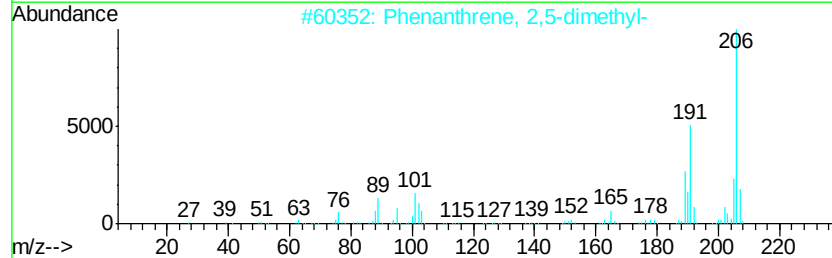
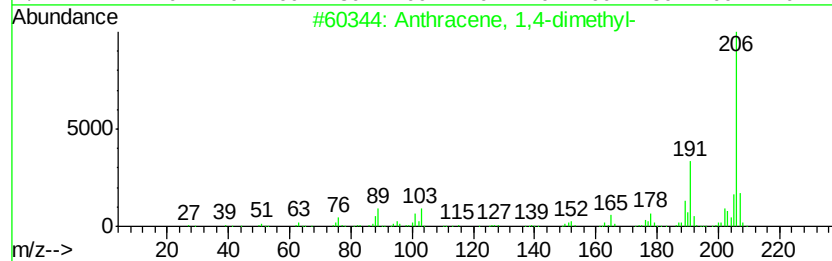
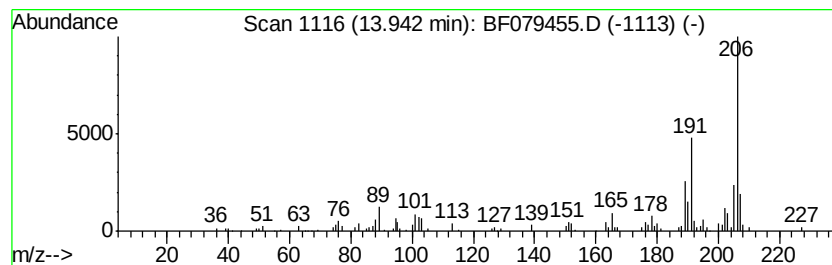
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Anthracene, 1,4-dimethyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.94 | 4.60 ng | 138023 | Phenanthrene-d10 | 12.63 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 93   |
| 2    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 3    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 91   |
| 4    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 90   |
| 5    |    |   | Phenanthrene, 2,7-dimethyl- | 206 | C16H14  | 001576-69-8 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

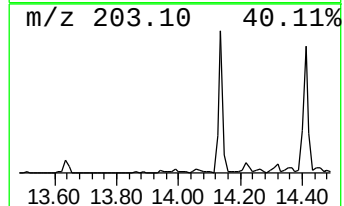
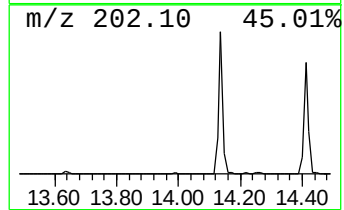
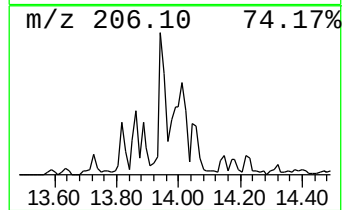
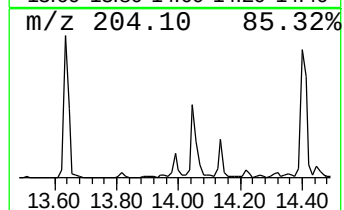
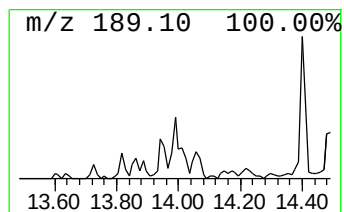
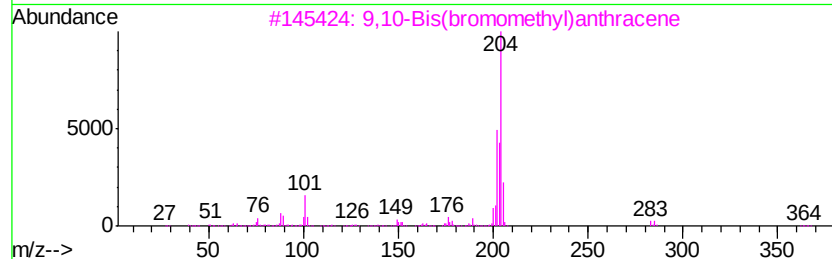
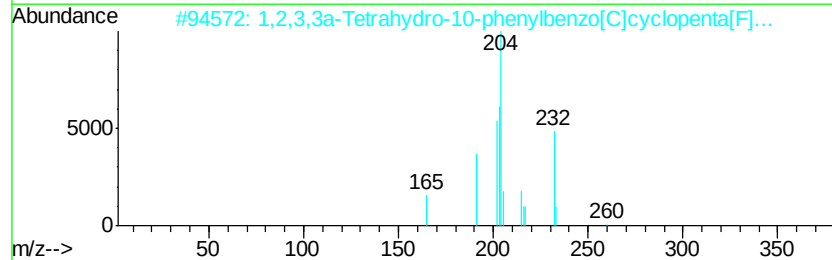
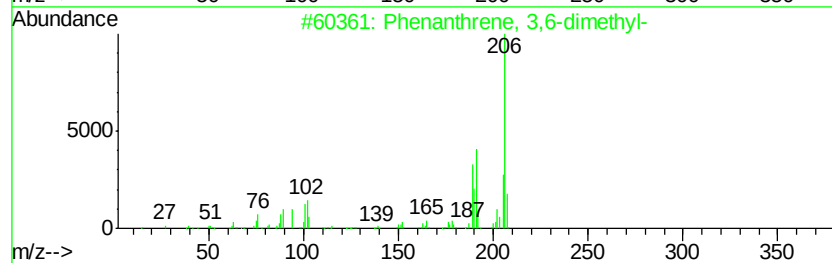
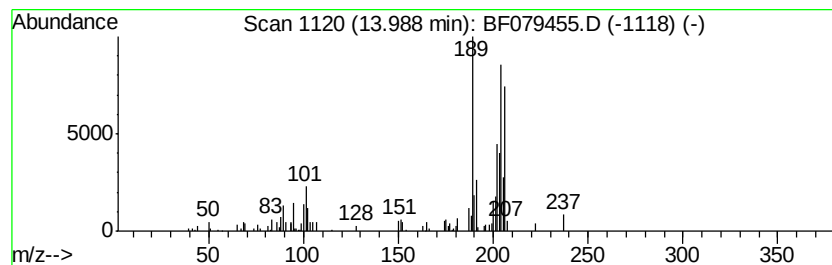
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ClientSampleId :  
SB-27D

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

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Peak Number 16 unknown13.99 Concentration Rank 13

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.99     | 5.65 ng                             | 169244 | Phenanthrene-d10 | 12.63       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 3,6-dimethyl-         | 206    | C16H14           | 001576-67-6 | 38   |
| 2         | 1,2,3,3a-Tetrahydro-10-phenylben... | 260    | C18H16N2         | 028749-06-6 | 38   |
| 3         | 9,10-Bis(bromomethyl)anthracene     | 362    | C16H12Br2        | 034373-96-1 | 35   |
| 4         | Imidazole, 4,5-dichloro-2-triflu... | 204    | C4HCl2F3N2       | 064736-49-8 | 27   |
| 5         | Pyrene, 4,5,9,10-tetrahydro-        | 206    | C16H14           | 000781-17-9 | 25   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

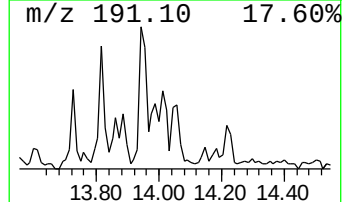
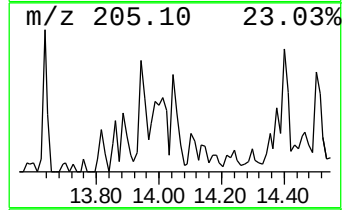
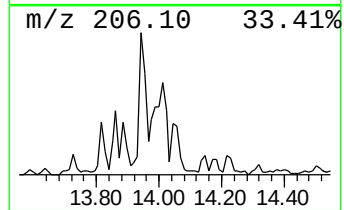
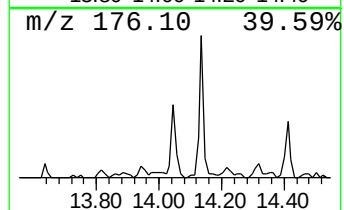
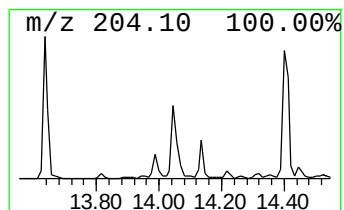
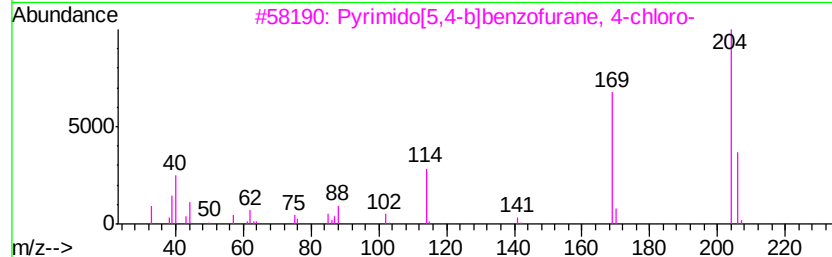
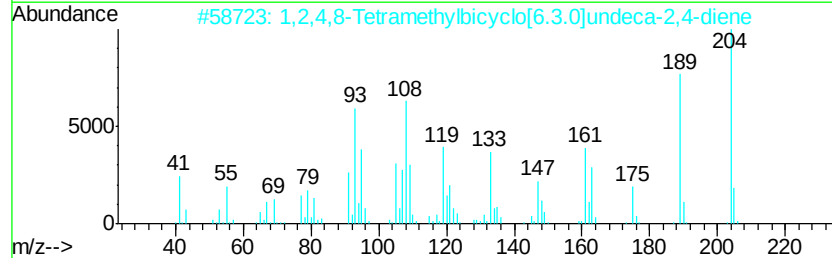
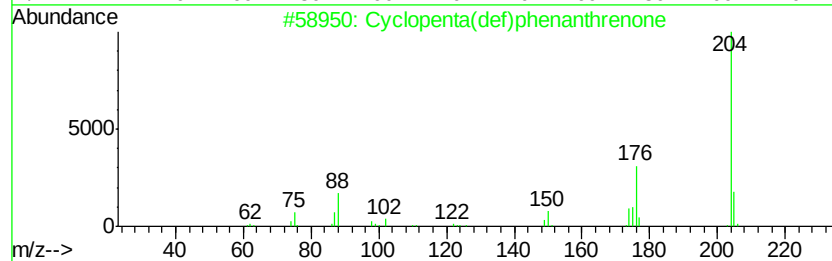
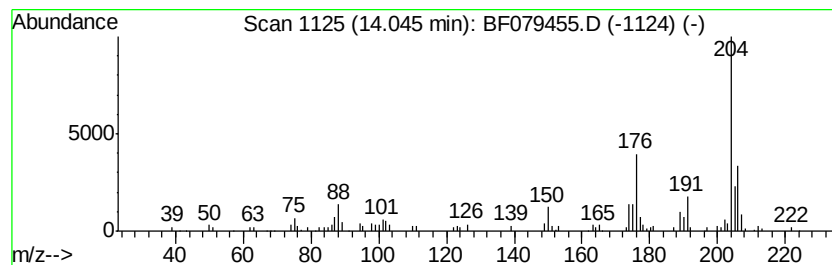
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.05 | 4.80 ng | 143772 | Phenanthrene-d10 | 12.63 |

| Hit# | of | Tentative ID                                      | MW  | MolForm    | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone                     | 204 | C15H8O     | 005737-13-3 | 89   |
| 2    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24     | 137235-51-9 | 45   |
| 3    |    | Pyrimido[5,4-b]benzofurane, 4-chloro-             | 204 | C10H5ClN2O | 039876-88-5 | 43   |
| 4    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile               | 204 | C14H8N2    | 001591-30-6 | 43   |
| 5    |    | [1,1'-Biphenyl]-4-ol, 4'-chloro-                  | 204 | C12H9ClO   | 028034-99-3 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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

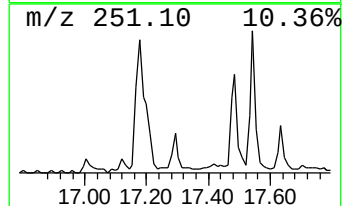
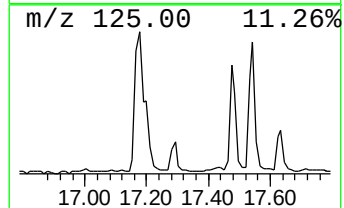
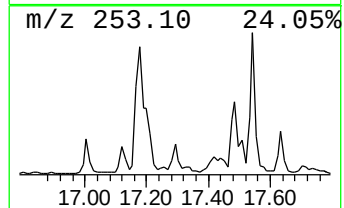
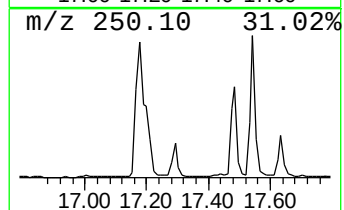
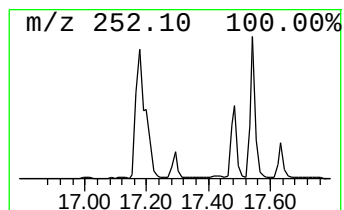
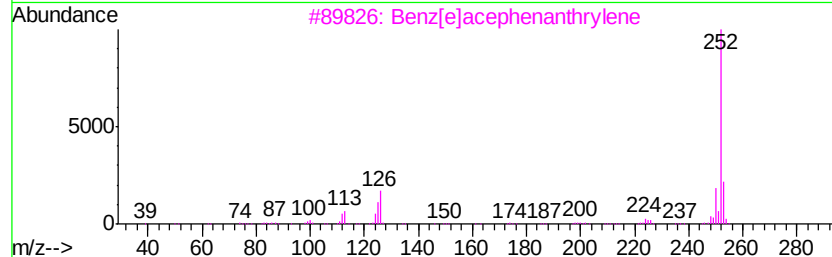
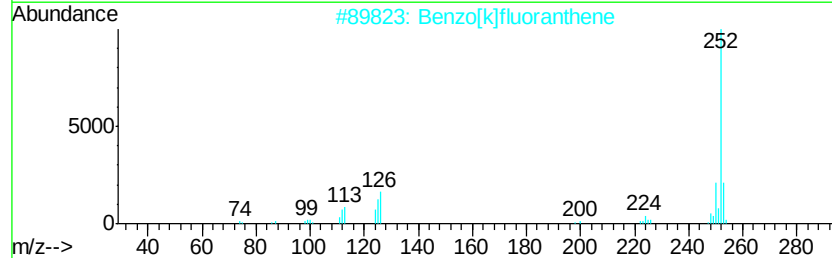
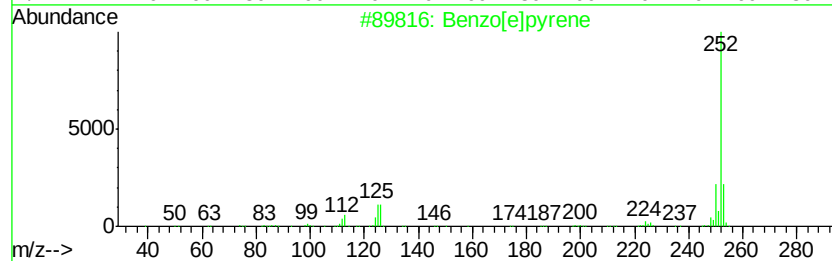
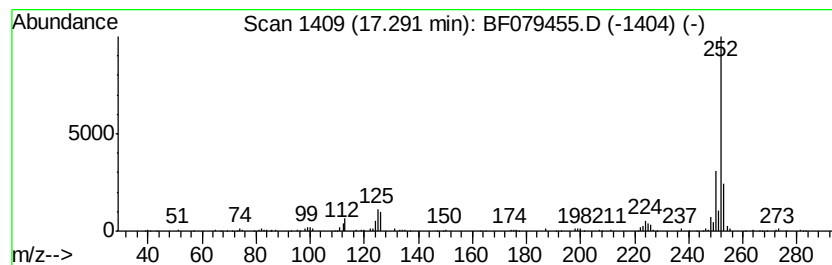
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.29 | 3.87 ng | 161071 | Perylene-d12     | 17.60 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 95   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 90   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 81   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\  
Data File : BF079455.D  
Acq On : 23 May 2015 4:33  
Operator : TP/IZ  
Sample : G2359-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-27D

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

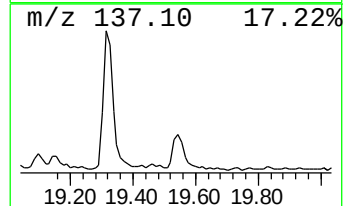
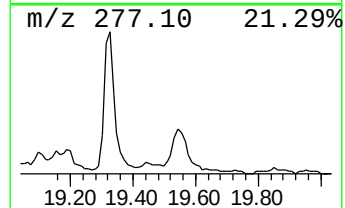
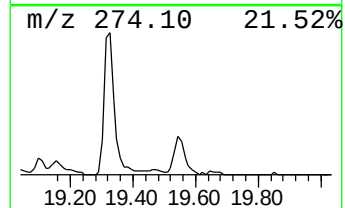
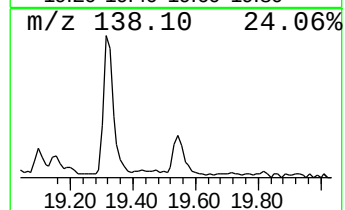
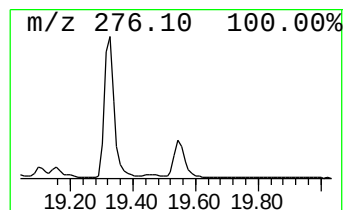
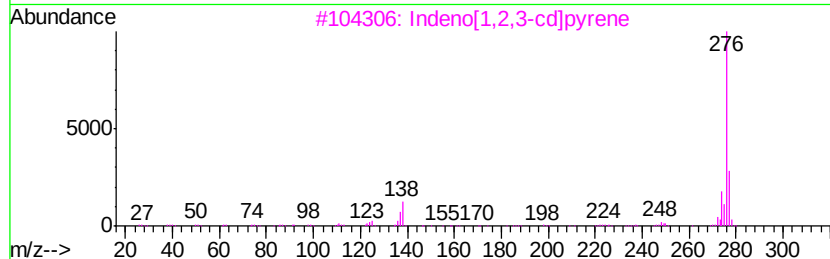
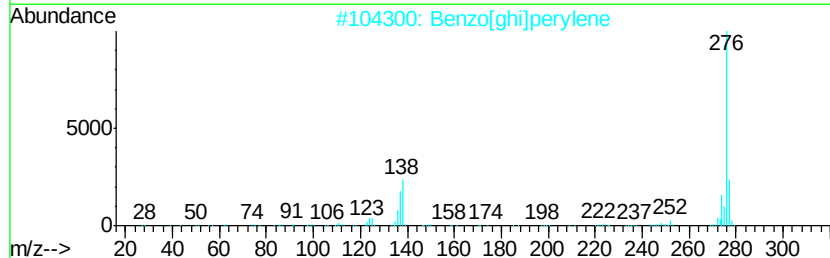
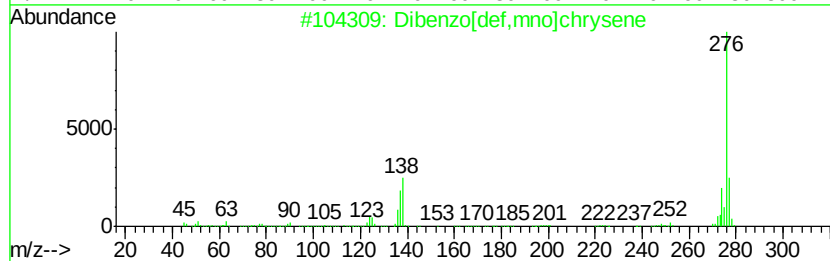
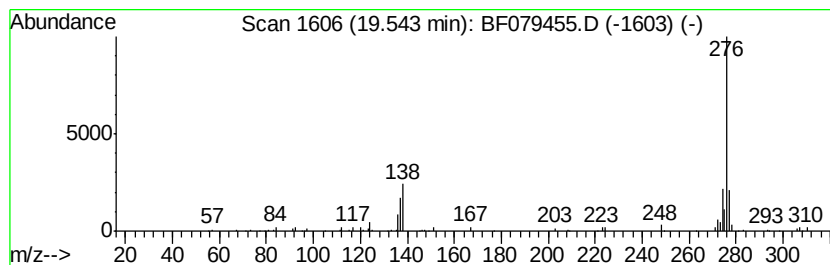
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.54 | 4.11 ng | 171139 | Perylene-d12     | 17.60 |

| Hit# | of | Tentative ID                         | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Dibenzo[def,mno]chrysene             | 276 | C22H12      | 000191-26-4  | 94   |
| 2    |    | Benzo[ghi]perylene                   | 276 | C22H12      | 000191-24-2  | 93   |
| 3    |    | Indeno[1,2,3-cd]pyrene               | 276 | C22H12      | 000193-39-5  | 91   |
| 4    |    | Indeno[1,2,3-cd]fluoranthene         | 276 | C22H12      | 000193-43-1  | 81   |
| 5    |    | Phenol, 2-(4-chlorophenyl)iminome... | 276 | C13H9ClN2O3 | 1000262-90-3 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052215\  
 Data File : BF079455.D  
 Acq On : 23 May 2015 4:33  
 Operator : TP/IZ  
 Sample : G2359-03  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-27D

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane, 2-methoxy... | 1.48  | 12.0    | ng    | 224930   | 1                     | 7.05  | 373787 | 20.0 |
| 2-Pentanone, 4-hy... | 4.80  | 6.2     | ng    | 116236   | 1                     | 7.05  | 373787 | 20.0 |
| unknown6.76          | 6.76  | 67.6    | ng    | 1262980  | 1                     | 7.05  | 373787 | 20.0 |
| 9H-Fluoren-9-one     | 12.40 | 3.9     | ng    | 117223   | 4                     | 12.63 | 599594 | 20.0 |
| Phenanthrene, 2-m... | 13.26 | 7.9     | ng    | 237547   | 4                     | 12.63 | 599594 | 20.0 |
| Phenanthrene, 4-m... | 13.29 | 9.6     | ng    | 286961   | 4                     | 12.63 | 599594 | 20.0 |
| 1H-Cyclopropa[l]p... | 13.35 | 4.8     | ng    | 143780   | 4                     | 12.63 | 599594 | 20.0 |
| 4H-Cyclopenta[def... | 13.39 | 10.9    | ng    | 326185   | 4                     | 12.63 | 599594 | 20.0 |
| Anthracene, 1-met... | 13.43 | 6.1     | ng    | 183011   | 4                     | 12.63 | 599594 | 20.0 |
| 2-Phenyl naphthalene | 13.63 | 5.3     | ng    | 158609   | 4                     | 12.63 | 599594 | 20.0 |
| Anthracene, 1,4-d... | 13.94 | 4.6     | ng    | 138023   | 4                     | 12.63 | 599594 | 20.0 |
| unknown13.99         | 13.99 | 5.7     | ng    | 169244   | 4                     | 12.63 | 599594 | 20.0 |
| Cyclopenta(def)ph... | 14.05 | 4.8     | ng    | 143772   | 4                     | 12.63 | 599594 | 20.0 |
| Benzo[e]pyrene       | 17.29 | 3.9     | ng    | 161071   | 6                     | 17.60 | 833353 | 20.0 |
| Dibenzo[def,mno]c... | 19.54 | 4.1     | ng    | 171139   | 6                     | 17.60 | 833353 | 20.0 |