

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
 Data File : BF079554.D  
 Acq On : 28 May 2015 20:00  
 Operator : TP/IZ  
 Sample : G2408-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-25S

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-BF052615.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         | 1.564       | 32            | 33          | 40           | rVV      | 166957         | 264386        | 4.63%           | 0.335%        |
| 2         | 1.667       | 40            | 42          | 79           | rVB      | 2879168        | 5707192       | 100.00%         | 7.225%        |
| 3         | 5.244       | 352           | 355         | 365          | rBV      | 928172         | 1336946       | 23.43%          | 1.692%        |
| 4         | 6.559       | 468           | 470         | 478          | rBV      | 917148         | 1429414       | 25.05%          | 1.810%        |
| 5         | 6.685       | 478           | 481         | 483          | rBV      | 1169326        | 1461933       | 25.62%          | 1.851%        |
| 6         | 6.959       | 503           | 505         | 508          | rBV      | 457919         | 431114        | 7.55%           | 0.546%        |
| 7         | 7.142       | 519           | 521         | 524          | rBV      | 955404         | 1090764       | 19.11%          | 1.381%        |
| 8         | 7.656       | 564           | 566         | 569          | rBV      | 655613         | 860948        | 15.09%          | 1.090%        |
| 9         | 8.536       | 641           | 643         | 644          | rBV      | 642613         | 599102        | 10.50%          | 0.758%        |
| 10        | 8.559       | 644           | 645         | 648          | rVB      | 526099         | 665206        | 11.66%          | 0.842%        |
| 11        | 9.428       | 719           | 721         | 723          | rBV      | 295413         | 319647        | 5.60%           | 0.405%        |
| 12        | 9.542       | 729           | 731         | 734          | rVB      | 282148         | 258530        | 4.53%           | 0.327%        |
| 13        | 9.885       | 759           | 761         | 764          | rBV      | 1742464        | 1737939       | 30.45%          | 2.200%        |
| 14        | 10.011      | 770           | 772         | 775          | rVB      | 114853         | 126331        | 2.21%           | 0.160%        |
| 15        | 10.205      | 786           | 789         | 791          | rBV      | 92311          | 156775        | 2.75%           | 0.198%        |
| 16        | 10.296      | 795           | 797         | 798          | rVV      | 176337         | 201559        | 3.53%           | 0.255%        |
| 17        | 10.331      | 798           | 800         | 802          | rVV      | 90801          | 115301        | 2.02%           | 0.146%        |
| 18        | 10.399      | 804           | 806         | 808          | rVV      | 300814         | 281483        | 4.93%           | 0.356%        |
| 19        | 10.434      | 808           | 809         | 813          | rVB      | 92294          | 119619        | 2.10%           | 0.151%        |
| 20        | 10.536      | 815           | 818         | 820          | rBV      | 498319         | 663876        | 11.63%          | 0.840%        |
| 21        | 10.708      | 830           | 833         | 835          | rBV      | 702716         | 723469        | 12.68%          | 0.916%        |
| 22        | 10.742      | 835           | 836         | 840          | rVV      | 232433         | 232656        | 4.08%           | 0.295%        |
| 23        | 10.959      | 853           | 855         | 858          | rBV      | 597431         | 614198        | 10.76%          | 0.778%        |
| 24        | 11.382      | 890           | 892         | 895          | rVB      | 355405         | 341984        | 5.99%           | 0.433%        |
| 25        | 11.588      | 908           | 910         | 913          | rVB      | 186586         | 220180        | 3.86%           | 0.279%        |
| 26        | 11.691      | 916           | 919         | 921          | rVV2     | 940386         | 1406159       | 24.64%          | 1.780%        |
| 27        | 12.068      | 949           | 952         | 956          | rBV2     | 61431          | 149060        | 2.61%           | 0.189%        |
| 28        | 12.239      | 962           | 967         | 970          | rBV4     | 74781          | 216922        | 3.80%           | 0.275%        |
| 29        | 12.308      | 970           | 973         | 976          | rVB      | 806488         | 797021        | 13.97%          | 1.009%        |
| 30        | 12.411      | 980           | 982         | 984          | rVV      | 347696         | 345624        | 6.06%           | 0.438%        |
| 31        | 12.537      | 991           | 993         | 994          | rBV      | 553708         | 672819        | 11.79%          | 0.852%        |
| 32        | 12.571      | 994           | 996         | 998          | rVV      | 3986185        | 5088838       | 89.17%          | 6.442%        |
| 33        | 12.628      | 998           | 1001        | 1004         | rVB      | 631457         | 935038        | 16.38%          | 1.184%        |
| 34        | 12.845      | 1018          | 1020        | 1022         | rBV      | 558061         | 527238        | 9.24%           | 0.667%        |

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 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-25S

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.959 | 1028 | 1030 | 1035 | rVB3 | 82316   | 194230  | 3.40%  | 0.246% |
| 36 | 13.051 | 1035 | 1038 | 1041 | rVB2 | 59625   | 120457  | 2.11%  | 0.152% |
| 37 | 13.165 | 1045 | 1048 | 1050 | rBV  | 494465  | 563233  | 9.87%  | 0.713% |
| 38 | 13.200 | 1050 | 1051 | 1054 | rVB  | 620314  | 584280  | 10.24% | 0.740% |
| 39 | 13.257 | 1054 | 1056 | 1057 | rBV  | 164652  | 167269  | 2.93%  | 0.212% |
| 40 | 13.302 | 1057 | 1060 | 1061 | rVV2 | 481221  | 833228  | 14.60% | 1.055% |
| 41 | 13.325 | 1061 | 1062 | 1066 | rVB  | 304543  | 347530  | 6.09%  | 0.440% |
| 42 | 13.405 | 1066 | 1069 | 1071 | rBV2 | 74429   | 134350  | 2.35%  | 0.170% |
| 43 | 13.542 | 1079 | 1081 | 1082 | rBV  | 371224  | 367077  | 6.43%  | 0.465% |
| 44 | 13.577 | 1082 | 1084 | 1086 | rVB  | 480709  | 623307  | 10.92% | 0.789% |
| 45 | 13.725 | 1093 | 1097 | 1099 | rBV2 | 83447   | 142022  | 2.49%  | 0.180% |
| 46 | 13.851 | 1105 | 1108 | 1109 | rBV  | 203896  | 257114  | 4.51%  | 0.325% |
| 47 | 13.885 | 1109 | 1111 | 1113 | rVV2 | 119168  | 242973  | 4.26%  | 0.308% |
| 48 | 13.954 | 1115 | 1117 | 1122 | rVB  | 419193  | 526900  | 9.23%  | 0.667% |
| 49 | 14.045 | 1122 | 1125 | 1128 | rBV  | 4084331 | 4762931 | 83.45% | 6.029% |
| 50 | 14.125 | 1130 | 1132 | 1133 | rBV  | 131179  | 148921  | 2.61%  | 0.189% |
| 51 | 14.160 | 1133 | 1135 | 1138 | rVB  | 369821  | 413052  | 7.24%  | 0.523% |
| 52 | 14.217 | 1138 | 1140 | 1142 | rBV2 | 237806  | 365724  | 6.41%  | 0.463% |
| 53 | 14.320 | 1146 | 1149 | 1151 | rBV2 | 3342502 | 4629594 | 81.12% | 5.861% |
| 54 | 14.388 | 1151 | 1155 | 1156 | rBV  | 160927  | 211213  | 3.70%  | 0.267% |
| 55 | 14.480 | 1161 | 1163 | 1165 | rBV  | 306367  | 327468  | 5.74%  | 0.415% |
| 56 | 14.537 | 1165 | 1168 | 1170 | rVB  | 1707056 | 2188653 | 38.35% | 2.771% |
| 57 | 14.605 | 1170 | 1174 | 1176 | rBV2 | 221343  | 411639  | 7.21%  | 0.521% |
| 58 | 14.731 | 1179 | 1185 | 1188 | rVB3 | 244326  | 747531  | 13.10% | 0.946% |
| 59 | 14.857 | 1194 | 1196 | 1202 | rVB2 | 345384  | 554896  | 9.72%  | 0.702% |
| 60 | 14.971 | 1204 | 1206 | 1208 | rVB  | 184836  | 181879  | 3.19%  | 0.230% |
| 61 | 15.005 | 1208 | 1209 | 1211 | rBV  | 113985  | 172834  | 3.03%  | 0.219% |
| 62 | 15.223 | 1225 | 1228 | 1230 | rBV4 | 47371   | 123385  | 2.16%  | 0.156% |
| 63 | 15.371 | 1238 | 1241 | 1244 | rVB  | 571383  | 669923  | 11.74% | 0.848% |
| 64 | 15.497 | 1250 | 1252 | 1254 | rBV  | 489584  | 624255  | 10.94% | 0.790% |
| 65 | 15.531 | 1254 | 1255 | 1259 | rVV2 | 303863  | 744203  | 13.04% | 0.942% |
| 66 | 15.588 | 1259 | 1260 | 1262 | rVV2 | 227579  | 231248  | 4.05%  | 0.293% |
| 67 | 15.634 | 1262 | 1264 | 1266 | rVB  | 555309  | 645940  | 11.32% | 0.818% |
| 68 | 15.703 | 1266 | 1270 | 1274 | rBV3 | 342418  | 663392  | 11.62% | 0.840% |
| 69 | 15.805 | 1275 | 1279 | 1281 | rBV  | 2152132 | 3670895 | 64.32% | 4.647% |
| 70 | 15.851 | 1281 | 1283 | 1285 | rVV  | 2021813 | 2378809 | 41.68% | 3.011% |
| 71 | 15.943 | 1287 | 1291 | 1292 | rBV3 | 157331  | 208103  | 3.65%  | 0.263% |

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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  | 16.000 | 1292 | 1296 | 1297 | rBV2 | 185220  | 263879  | 4.62%  | 0.334% |
| 73  | 16.068 | 1300 | 1302 | 1304 | rVB2 | 219384  | 260141  | 4.56%  | 0.329% |
| 74  | 16.114 | 1304 | 1306 | 1308 | rBV  | 241457  | 317617  | 5.57%  | 0.402% |
| 75  | 16.263 | 1316 | 1319 | 1320 | rBV2 | 106002  | 152616  | 2.67%  | 0.193% |
| 76  | 16.308 | 1320 | 1323 | 1325 | rVV  | 339043  | 457464  | 8.02%  | 0.579% |
| 77  | 16.343 | 1325 | 1326 | 1329 | rVV2 | 136398  | 232192  | 4.07%  | 0.294% |
| 78  | 16.457 | 1334 | 1336 | 1339 | rBV4 | 92004   | 154068  | 2.70%  | 0.195% |
| 79  | 16.514 | 1339 | 1341 | 1343 | rVB3 | 128366  | 183566  | 3.22%  | 0.232% |
| 80  | 16.571 | 1343 | 1346 | 1347 | rVB  | 80509   | 113264  | 1.98%  | 0.143% |
| 81  | 16.697 | 1355 | 1357 | 1361 | rBV4 | 72545   | 152557  | 2.67%  | 0.193% |
| 82  | 16.800 | 1364 | 1366 | 1368 | rBV2 | 85388   | 158905  | 2.78%  | 0.201% |
| 83  | 16.846 | 1368 | 1370 | 1372 | rBV3 | 77155   | 119229  | 2.09%  | 0.151% |
| 84  | 16.903 | 1372 | 1375 | 1378 | rBV2 | 132537  | 285833  | 5.01%  | 0.362% |
| 85  | 16.971 | 1378 | 1381 | 1382 | rBV  | 239291  | 308190  | 5.40%  | 0.390% |
| 86  | 17.097 | 1388 | 1392 | 1396 | rBV  | 1739700 | 4302879 | 75.39% | 5.447% |
| 87  | 17.200 | 1397 | 1401 | 1403 | rVB2 | 474591  | 588379  | 10.31% | 0.745% |
| 88  | 17.394 | 1416 | 1418 | 1421 | rBV  | 1098682 | 1465658 | 25.68% | 1.855% |
| 89  | 17.463 | 1421 | 1424 | 1427 | rVB  | 1706266 | 2136926 | 37.44% | 2.705% |
| 90  | 17.520 | 1427 | 1429 | 1430 | rBV  | 713113  | 851016  | 14.91% | 1.077% |
| 91  | 17.554 | 1430 | 1432 | 1433 | rVB  | 328072  | 453497  | 7.95%  | 0.574% |
| 92  | 18.503 | 1512 | 1515 | 1517 | rBV2 | 104500  | 245215  | 4.30%  | 0.310% |
| 93  | 18.663 | 1526 | 1529 | 1532 | rBV3 | 176355  | 453633  | 7.95%  | 0.574% |
| 94  | 18.811 | 1539 | 1542 | 1546 | rVB2 | 933338  | 1766694 | 30.96% | 2.236% |
| 95  | 18.971 | 1553 | 1556 | 1558 | rBV  | 196561  | 419016  | 7.34%  | 0.530% |
| 96  | 19.017 | 1558 | 1560 | 1562 | rVB  | 139125  | 226967  | 3.98%  | 0.287% |
| 97  | 19.189 | 1572 | 1575 | 1579 | rVB  | 713203  | 1292872 | 22.65% | 1.637% |
| 98  | 19.394 | 1590 | 1593 | 1600 | rVB2 | 176577  | 460140  | 8.06%  | 0.582% |
| 99  | 21.120 | 1739 | 1744 | 1751 | rVB  | 197096  | 623780  | 10.93% | 0.790% |
| 100 | 21.269 | 1754 | 1757 | 1761 | rBV  | 99763   | 268369  | 4.70%  | 0.340% |

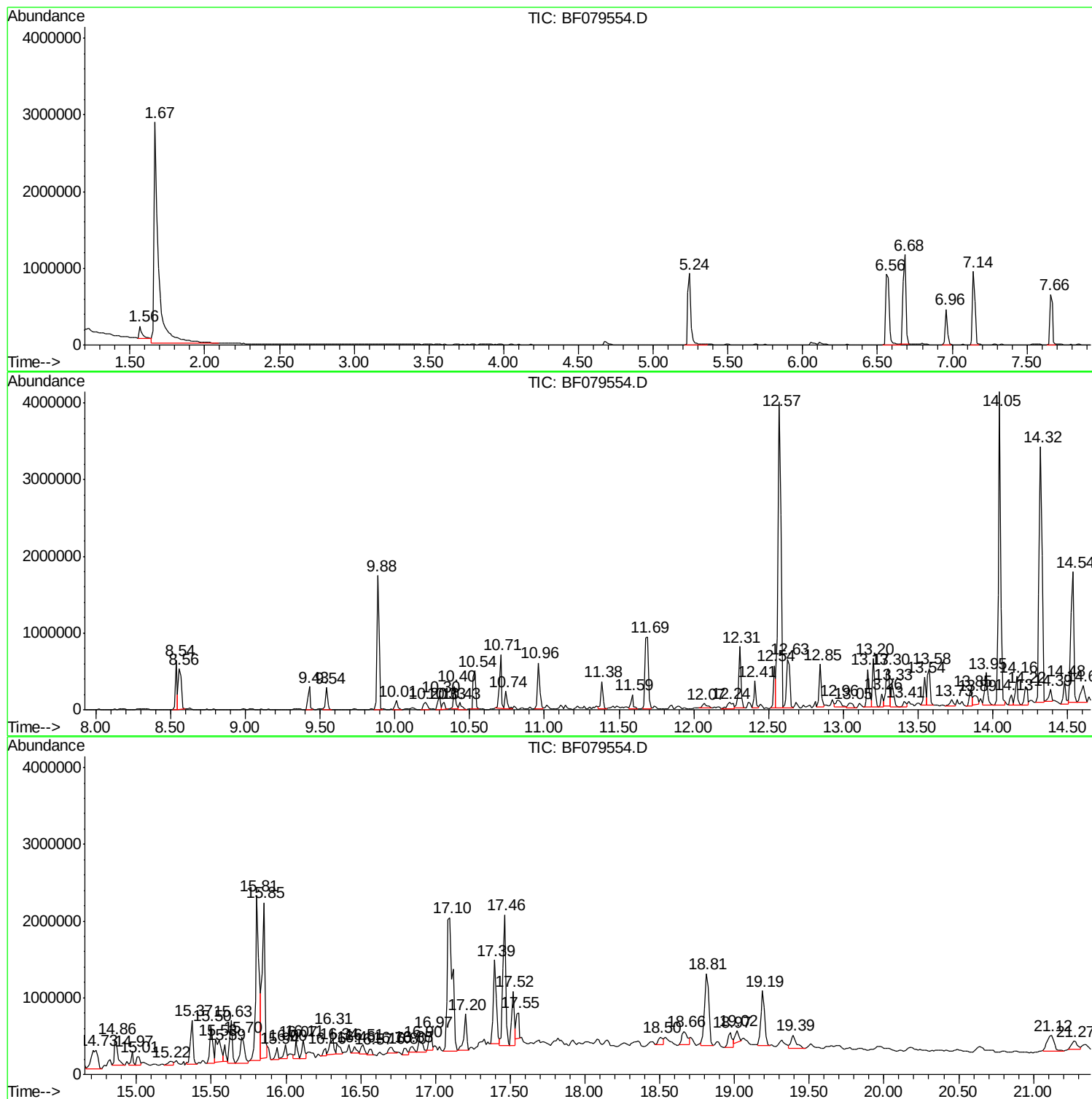
Sum of corrected areas: 78994291

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Instrument :  
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ClientSampleId :  
SB-25S

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\BF052815\  
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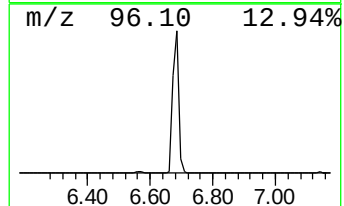
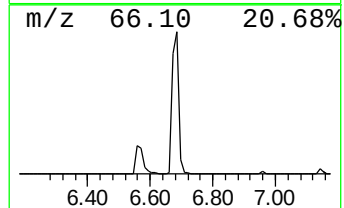
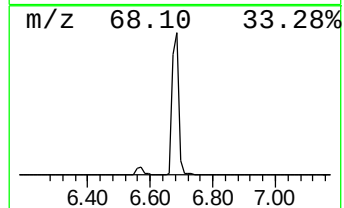
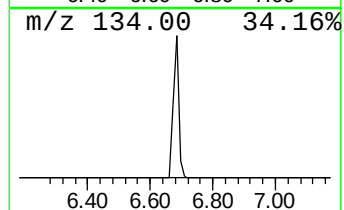
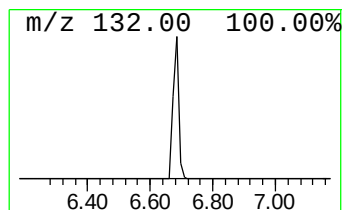
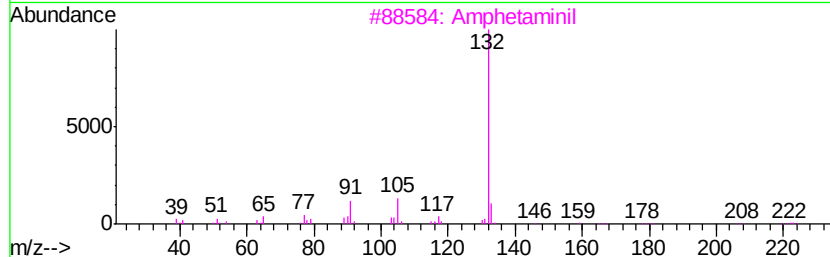
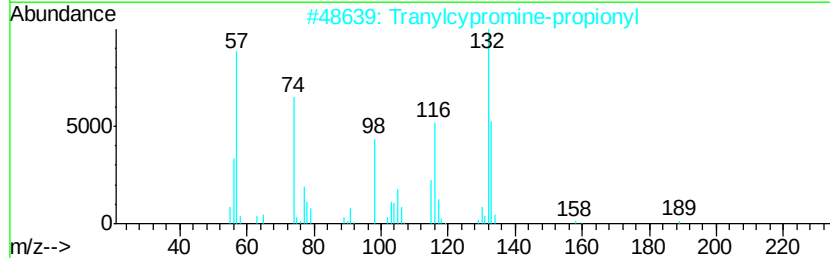
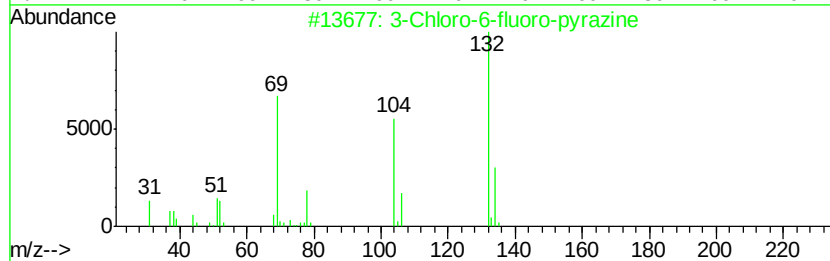
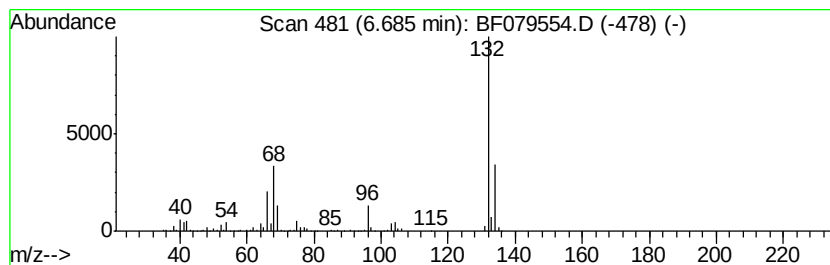
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 unknown6.68 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.68 | 67.82 ng | 1461930 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 3    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 12   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |



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

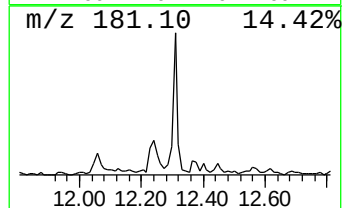
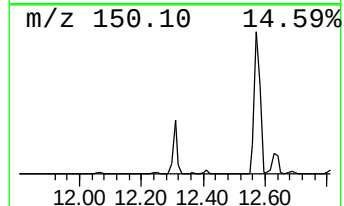
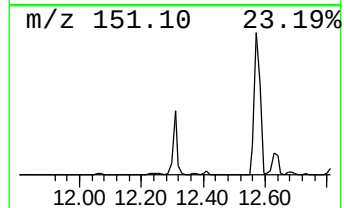
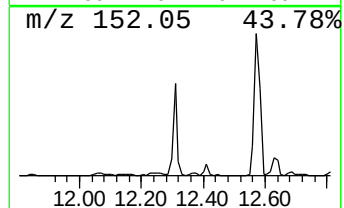
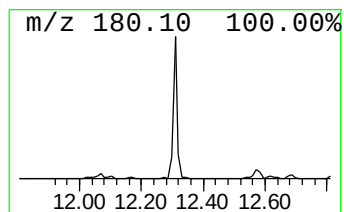
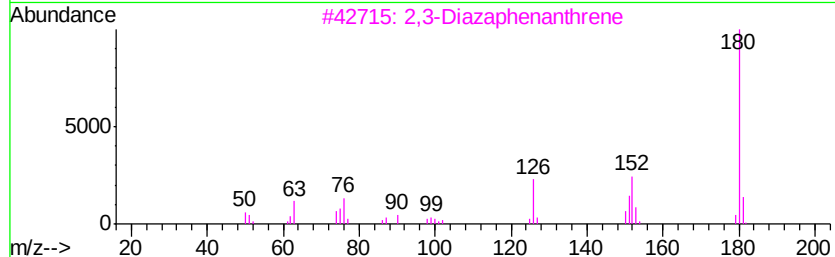
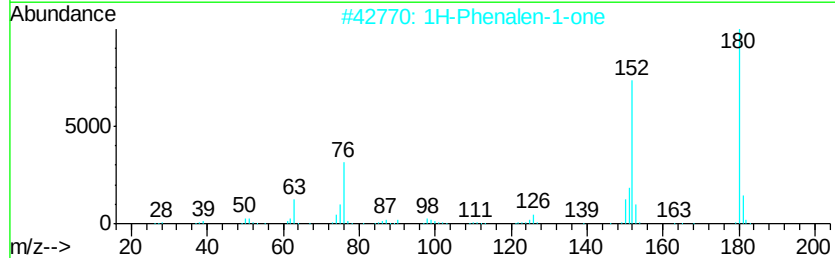
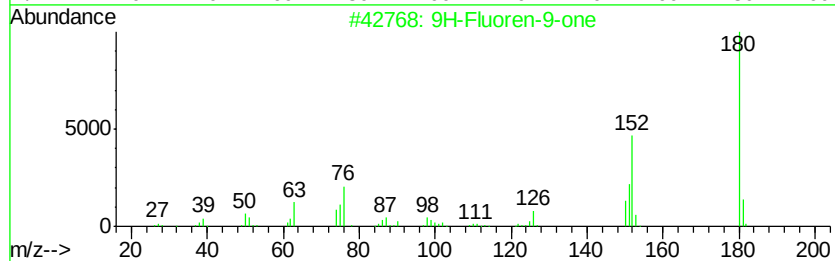
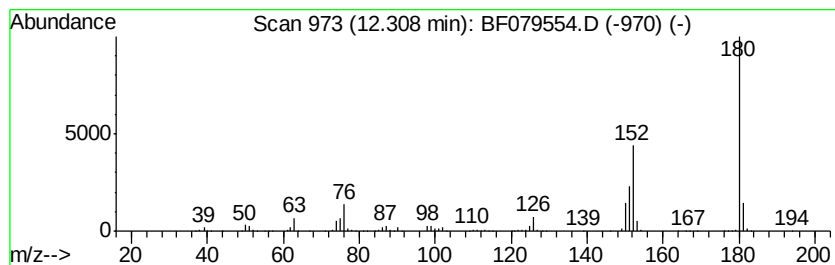
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 9H-Fluoren-9-one Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.31 | 23.69 ng | 797021 | Phenanthrene-d10 | 12.54 |

| 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 | 64   |
| 3       |   | 2,3-Diazaphenanthrene | 180 | C12H8N2 | 000229-72-1 | 50   |
| 4       |   | Benzo[h]cinnoline     | 180 | C12H8N2 | 000230-31-9 | 50   |
| 5       |   | Phenazine             | 180 | C12H8N2 | 000092-82-0 | 47   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

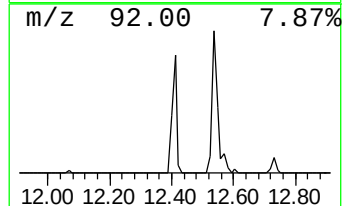
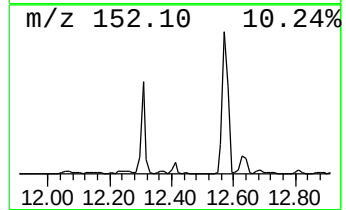
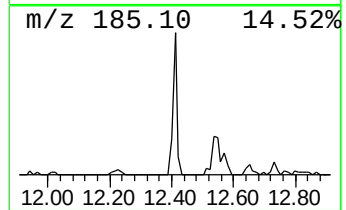
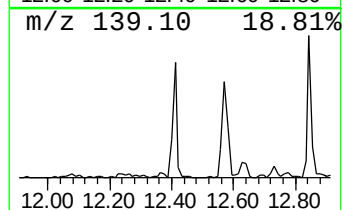
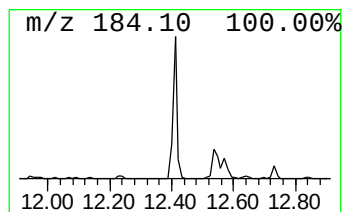
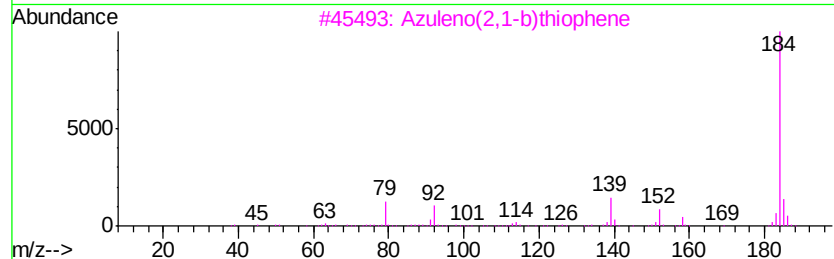
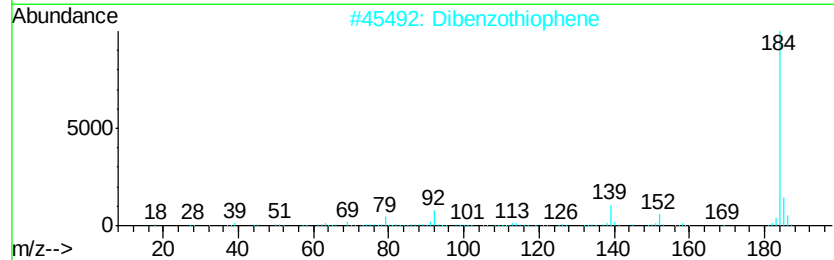
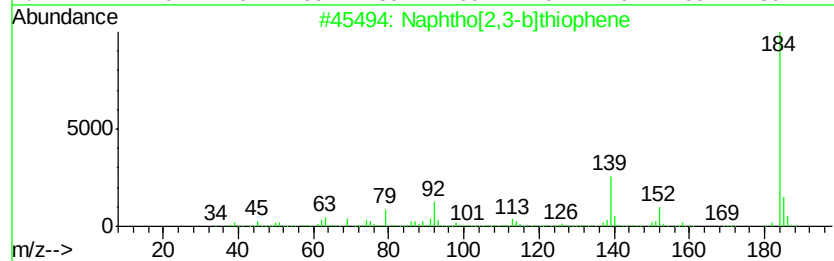
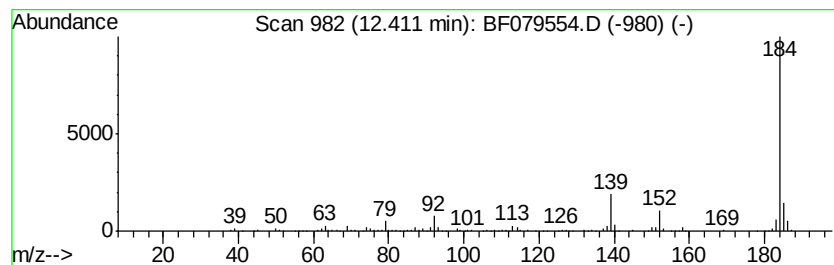
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Naphtho[2,3-b]thiophene Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.41 | 10.27 ng | 345624 | Phenanthrene-d10 | 12.54 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphtho[2,3-b]thiophene           | 184 | C12H8S  | 000268-77-9 | 97   |
| 2    |    | Dibenzothiophene                  | 184 | C12H8S  | 000132-65-0 | 96   |
| 3    |    | Azuleno(2,1-b)thiophene           | 184 | C12H8S  | 000248-13-5 | 91   |
| 4    |    | Naphthalene, 2-ethenyl-6-methoxy- | 184 | C13H12O | 063444-51-9 | 56   |
| 5    |    | 3,4-Bis(methylthio)toluene        | 184 | C9H12S2 | 029690-14-0 | 45   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

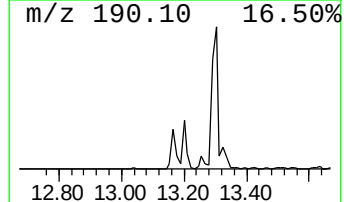
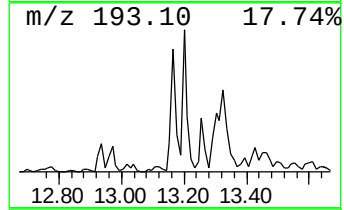
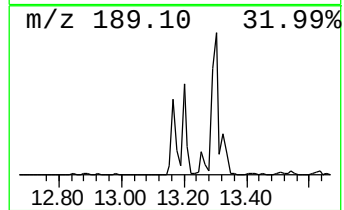
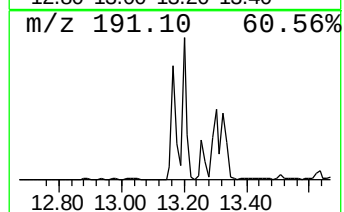
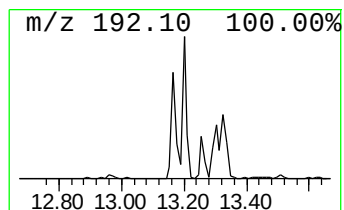
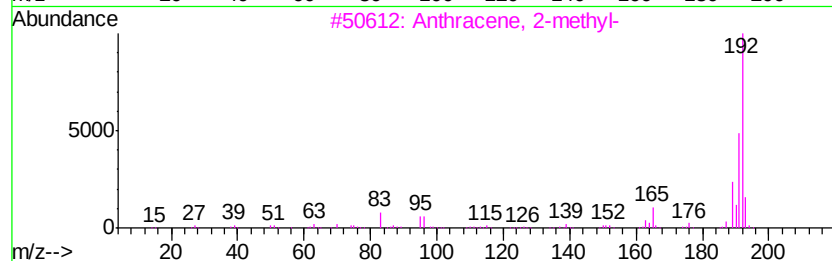
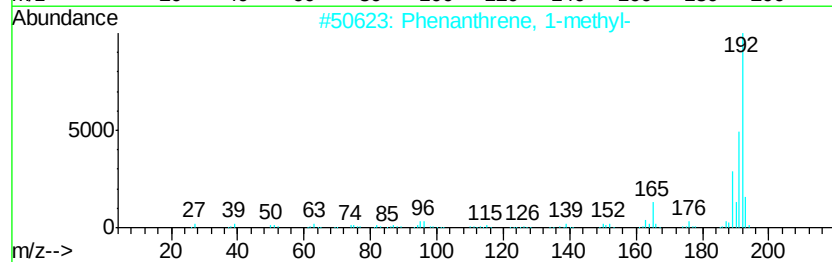
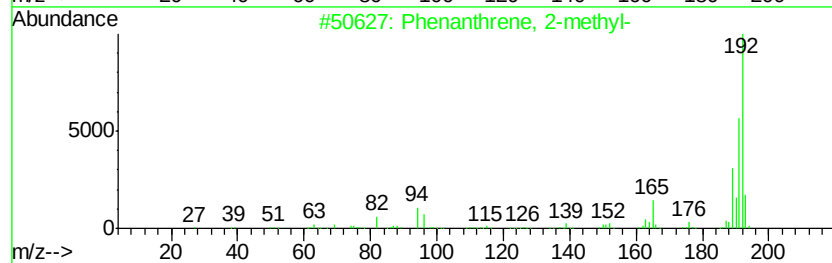
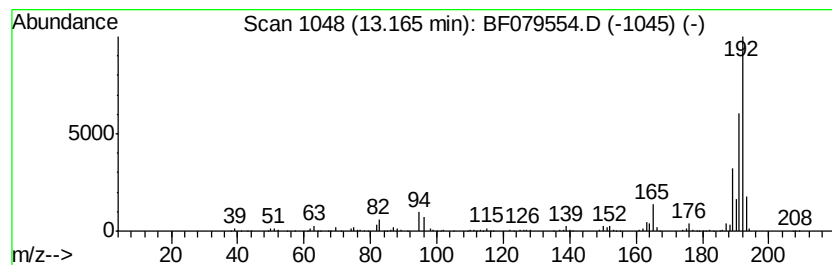
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.17 | 16.74 ng | 563233 | Phenanthrene-d10 | 12.54 |

| 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[1,1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 96   |
| 5       |   | Anthracene, 9-methyl-                   | 192 | C15H12  | 000779-02-2 | 93   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

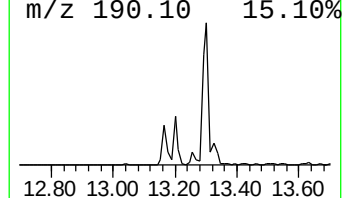
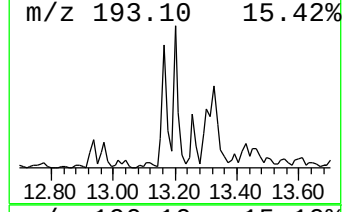
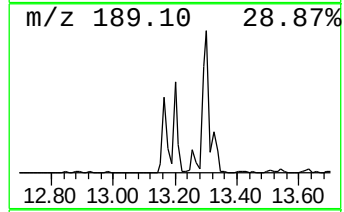
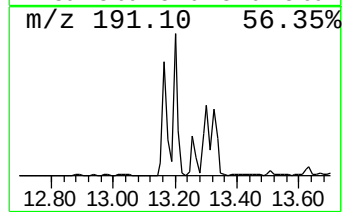
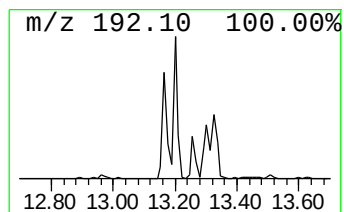
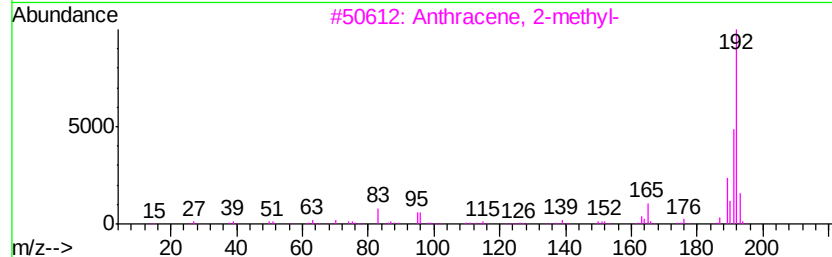
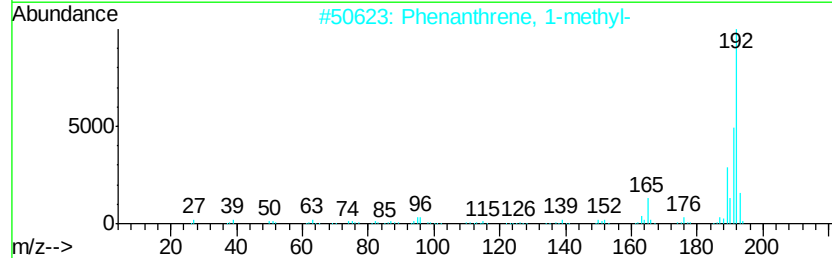
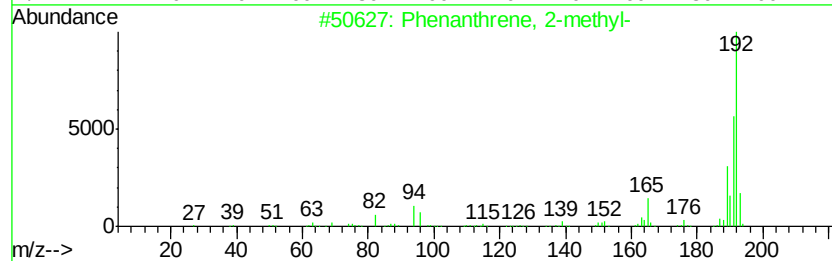
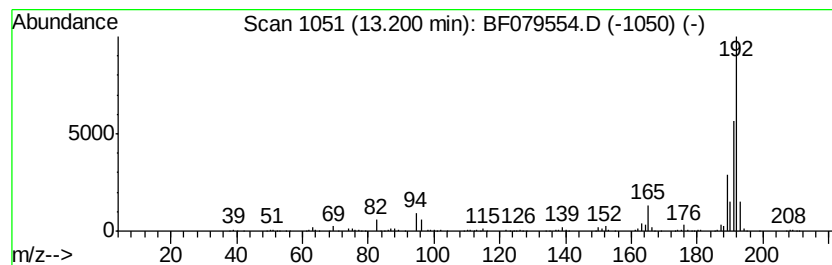
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.20 | 17.37 ng | 584280 | Phenanthrene-d10 | 12.54 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 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    |    | Phenanthrene, 4-methyl-              | 192 | C15H12  | 000832-64-4 | 95   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
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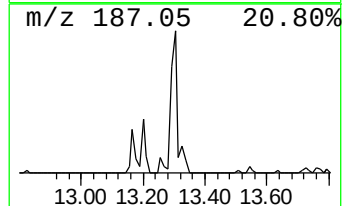
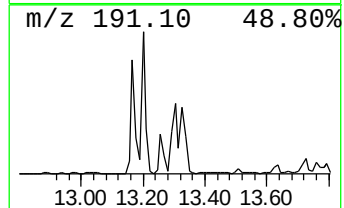
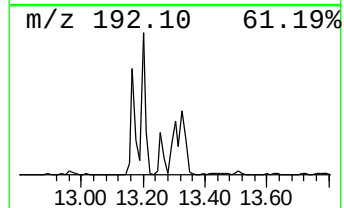
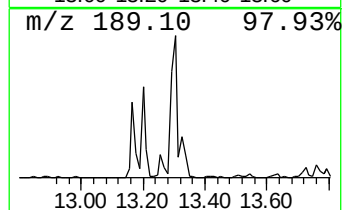
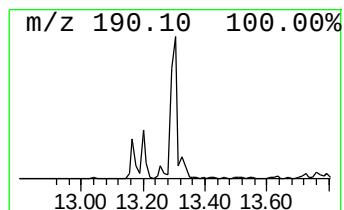
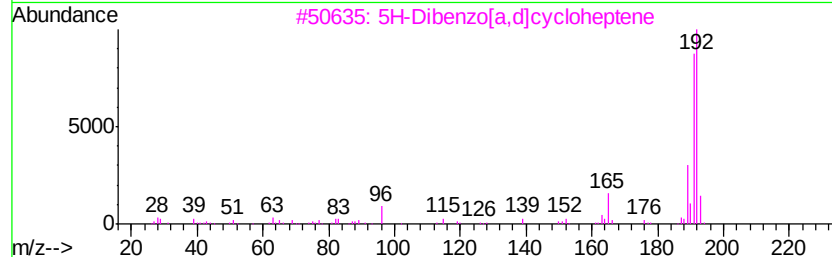
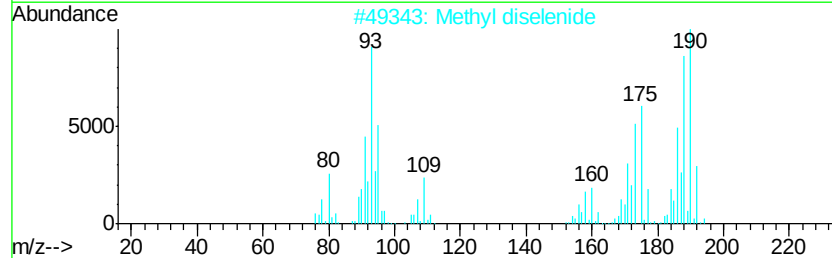
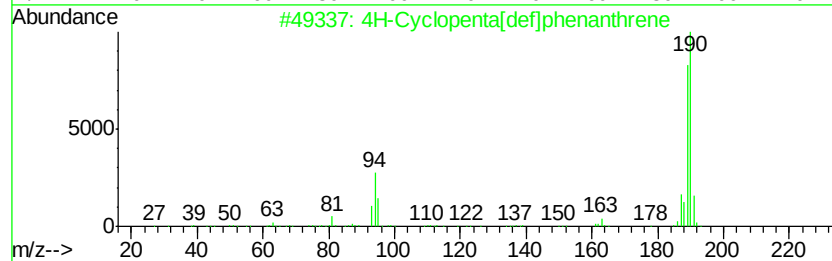
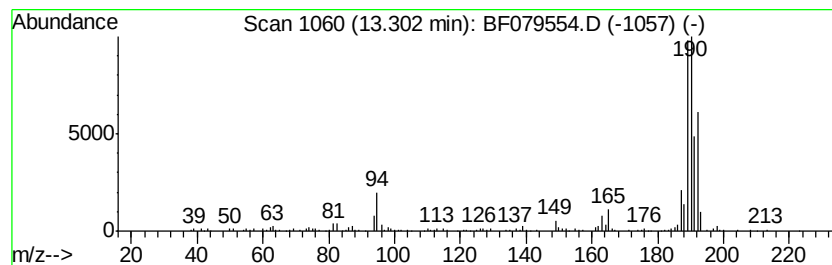
Instrument :  
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ClientSampleId :  
SB-25S

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

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Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.30     | 24.77 ng                            | 833228 | Phenanthrene-d10 | 12.54       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 92   |
| 2         | Methyl diselenide                   | 190    | C2H6Se2          | 007101-31-7 | 41   |
| 3         | 5H-Dibenzo[a,d]cycloheptene         | 192    | C15H12           | 000256-81-5 | 25   |
| 4         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 18   |
| 5         | 1a,9b-Dihydro-1H-cyclopropa[a]an... | 192    | C15H12           | 006109-24-6 | 18   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

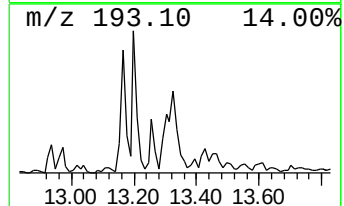
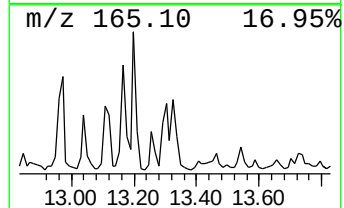
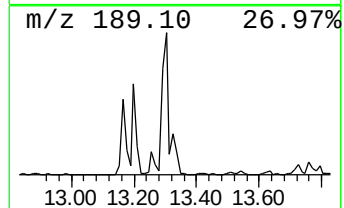
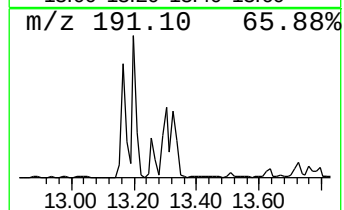
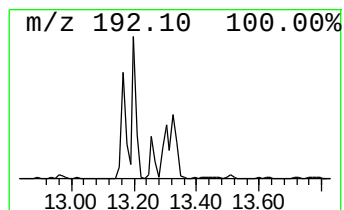
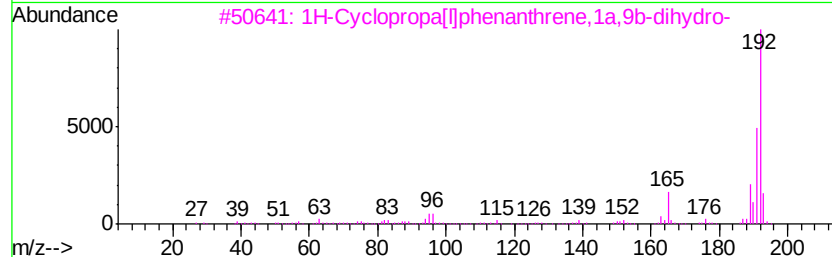
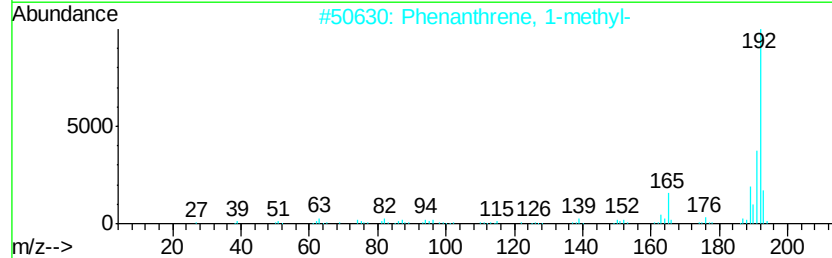
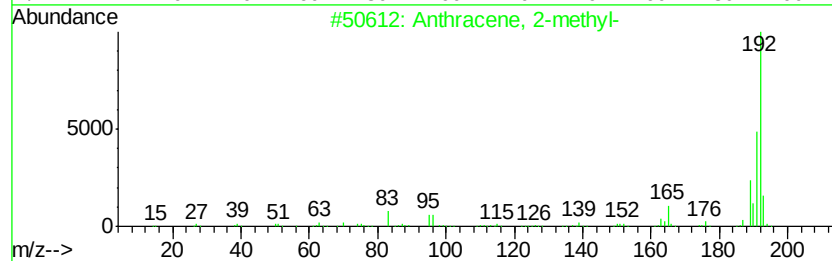
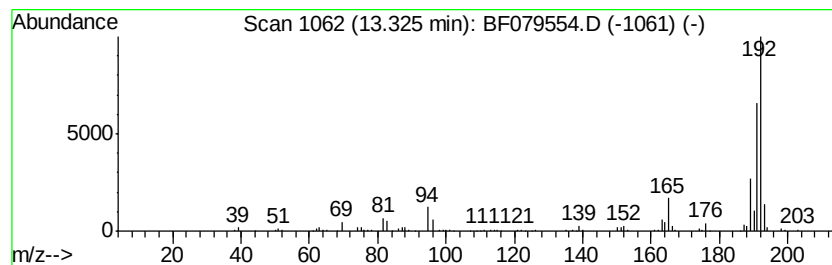
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Anthracene, 2-methyl- Concentration Rank 18

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.33 | 10.33 ng | 347530 | Phenanthrene-d10 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |    | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |
| 4    |    | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 93   |
| 5    |    | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12  | 000256-81-5 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

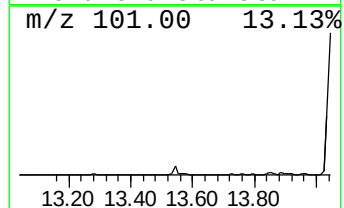
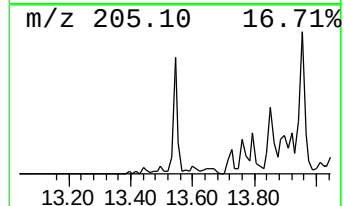
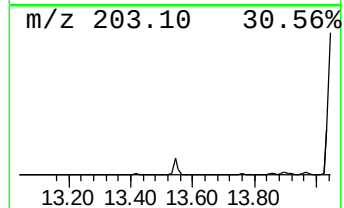
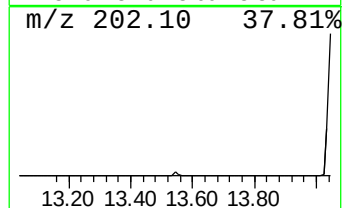
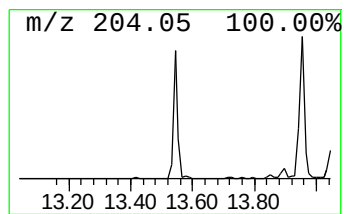
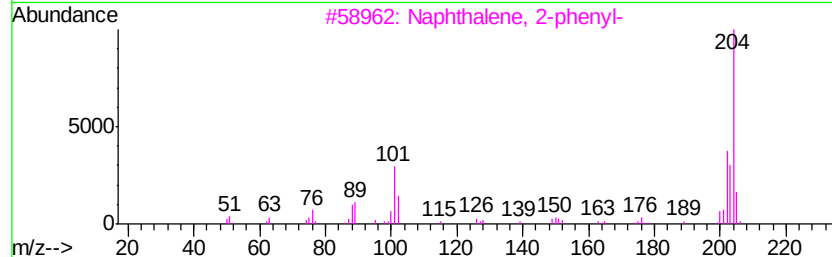
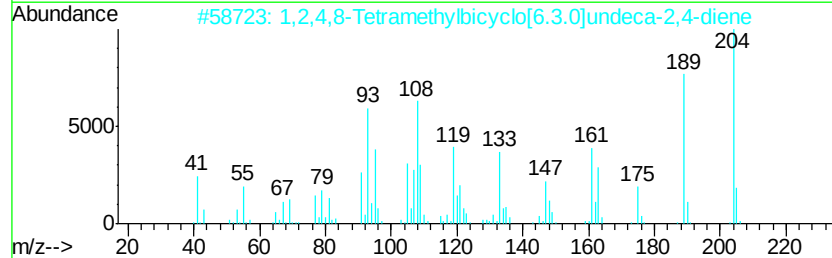
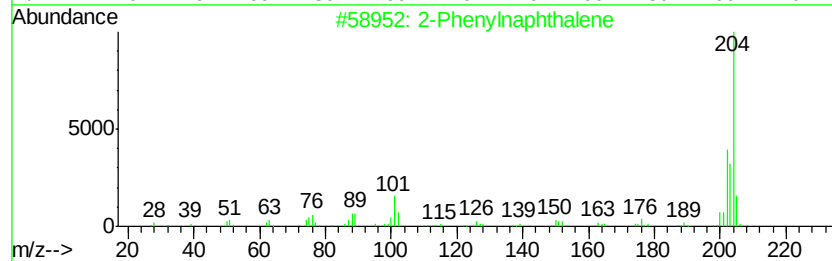
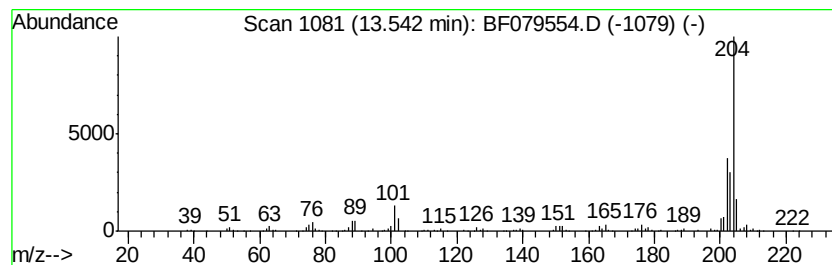
Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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 2-Phenylnaphthalene Concentration Rank 15

| R.T.      | EstConc                                                   | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------------------------------------|--------|------------------|-------------|------|
| 13.54     | 10.91 ng                                                  | 367077 | Phenanthrene-d10 | 12.54       |      |
| Hit# of 5 | Tentative ID                                              | MW     | MolForm          | CAS#        | Qual |
| 1         | 2-Phenylnaphthalene                                       | 204    | C16H12           | 035465-71-5 | 96   |
| 2         | 1,2,4,8-Tetramethylbicyclo[6.3.0.0.1.2]                   | 204    | C15H24           | 137235-51-9 | 95   |
| 3         | Naphthalene, 2-phenyl-                                    | 204    | C16H12           | 000612-94-2 | 94   |
| 4         | 5,16[1',2']:8,13[1'',2'']-Dibenz[1,2-b:4,5-b']diphenylene | 408    | C32H24           | 005672-97-9 | 87   |
| 5         | Naphthalene, 1-phenyl-                                    | 204    | C16H12           | 000605-02-7 | 86   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

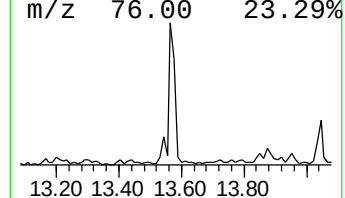
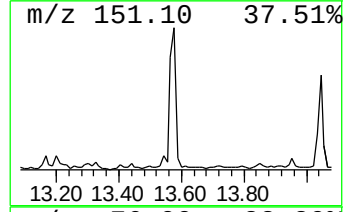
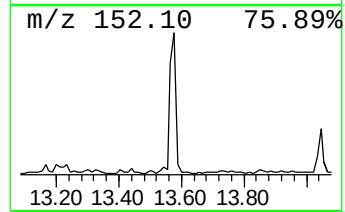
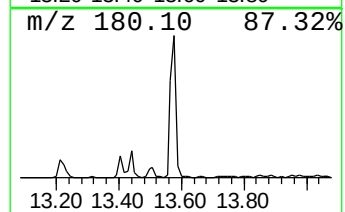
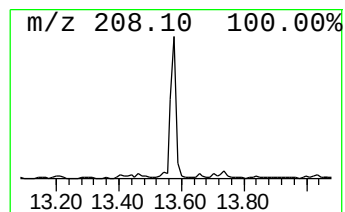
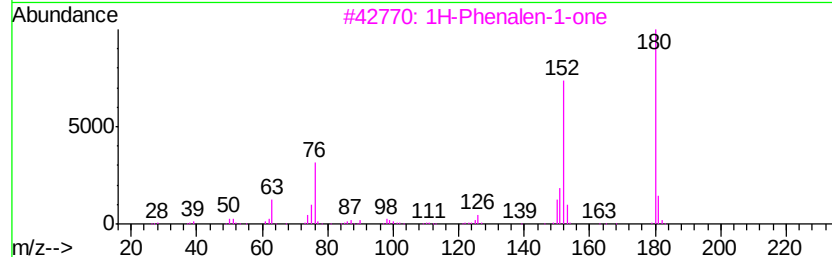
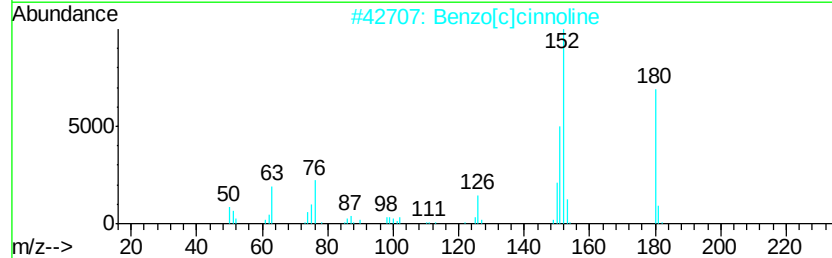
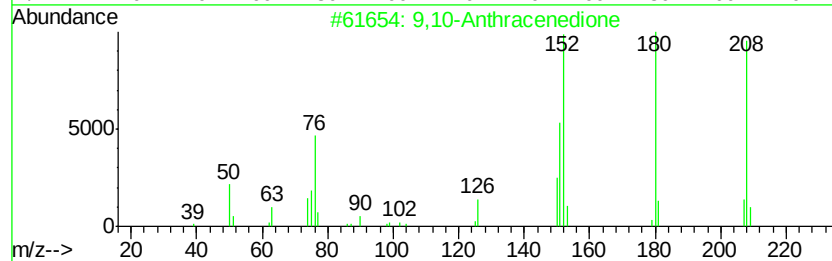
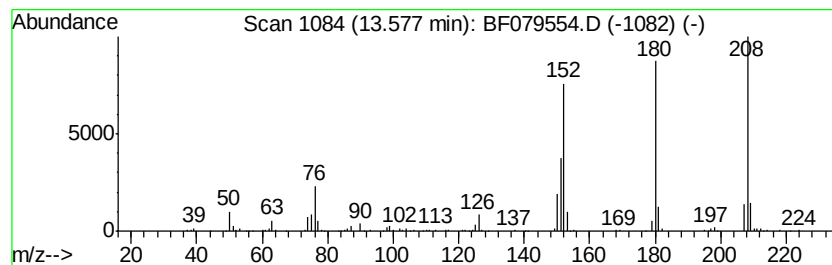
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 9,10-Anthracenedione Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.58 | 18.53 ng | 623307 | Phenanthrene-d10 | 12.54 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97   |
| 2    |    | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 64   |
| 3    |    | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 58   |
| 4    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 58   |
| 5    |    | Benzo[h]cinnoline    | 180 | C12H8N2 | 000230-31-9 | 45   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

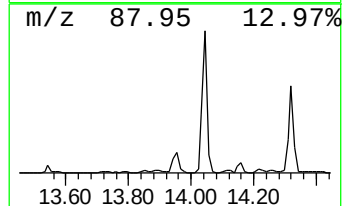
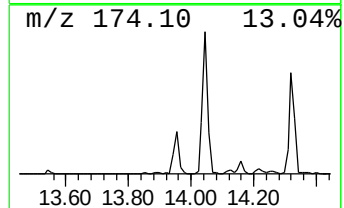
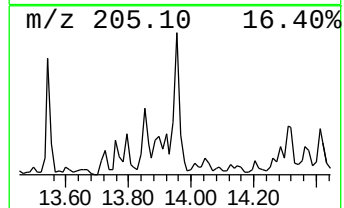
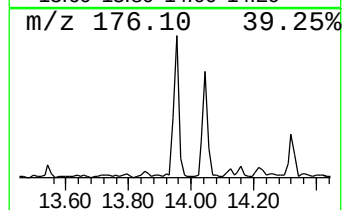
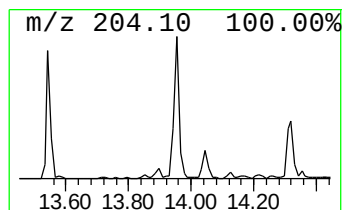
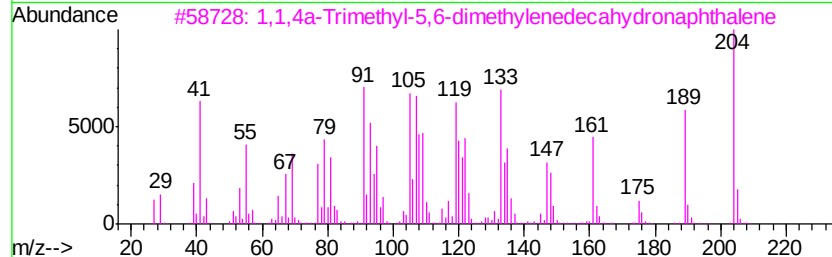
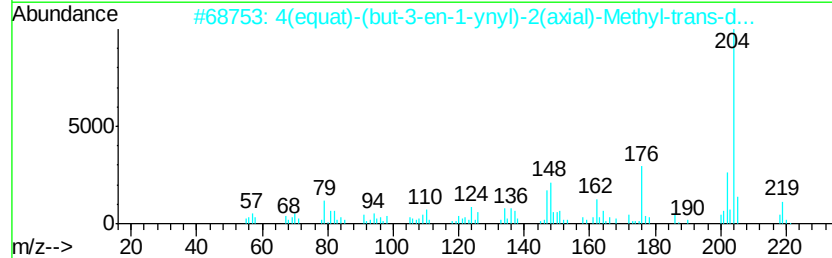
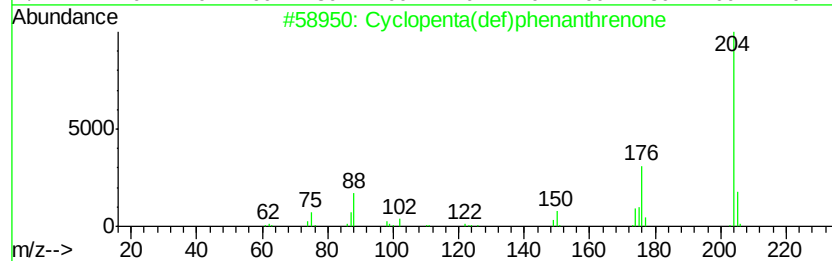
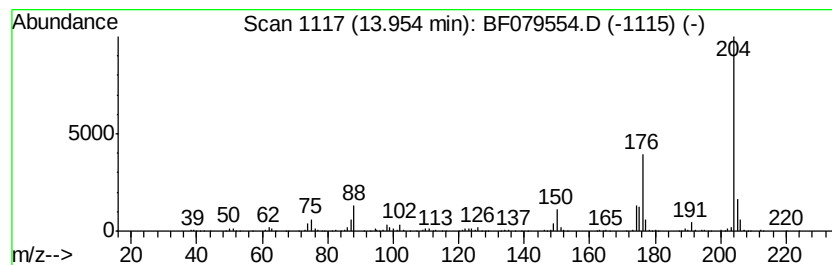
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.95 | 15.66 ng | 526900 | Phenanthrene-d10 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone       | 204 | C15H8O    | 005737-13-3  | 96   |
| 2    |    | 4(equat)-(but-3-en-1-ynyl)-2(axi... | 219 | C14H21NO  | 038423-22-2  | 45   |
| 3    |    | 1,1,4a-Trimethyl-5,6-dimethylene... | 204 | C15H24    | 1000193-60-8 | 42   |
| 4    |    | 3,4-Biphenyldicarbonitrile          | 204 | C14H8N2   | 004128-63-6  | 42   |
| 5    |    | (E)-Ethyl 3-oxo-2-(pyrid-2-yl)me... | 219 | C12H13N03 | 1000147-59-7 | 39   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

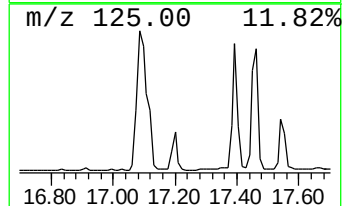
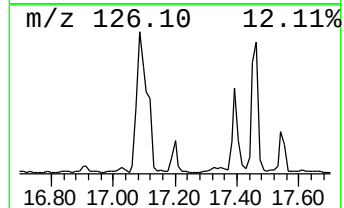
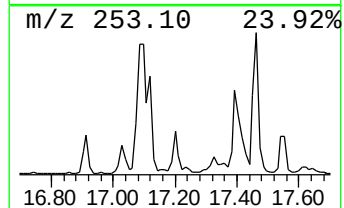
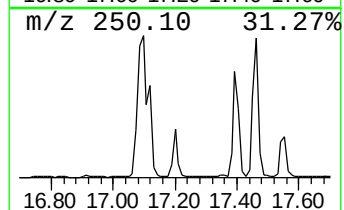
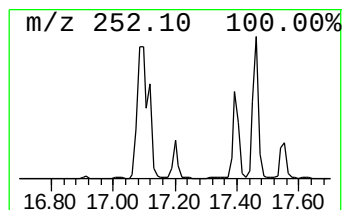
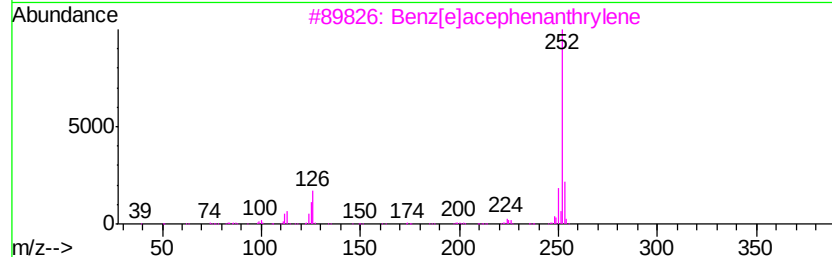
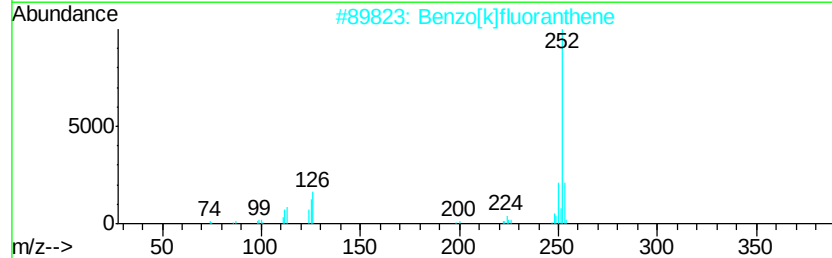
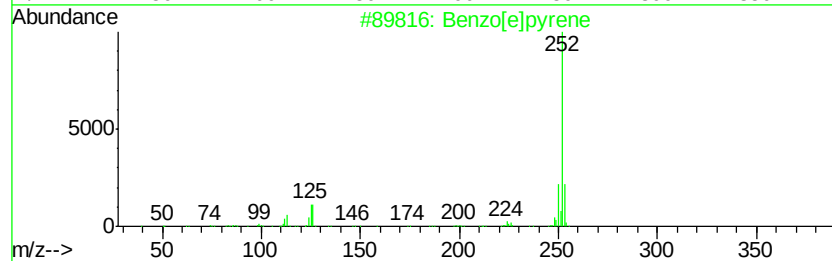
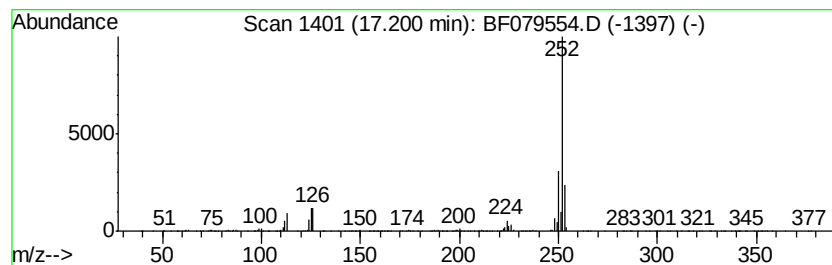
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzo[e]pyrene Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.20 | 13.83 ng | 588379 | Perylene-d12     | 17.52 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 96   |
| 3    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 4    |    | Perylene                 | 252 | C20H12  | 000198-55-0 | 90   |
| 5    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

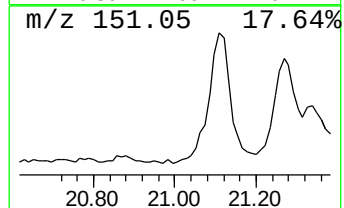
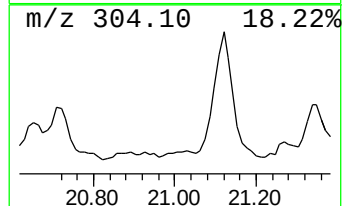
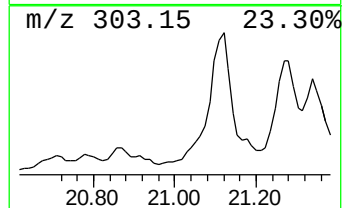
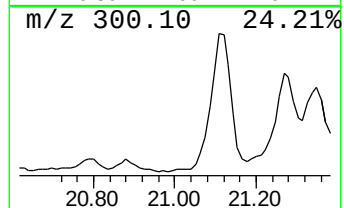
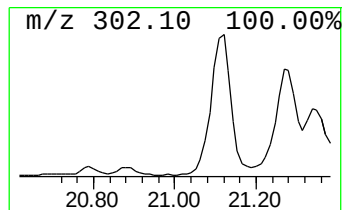
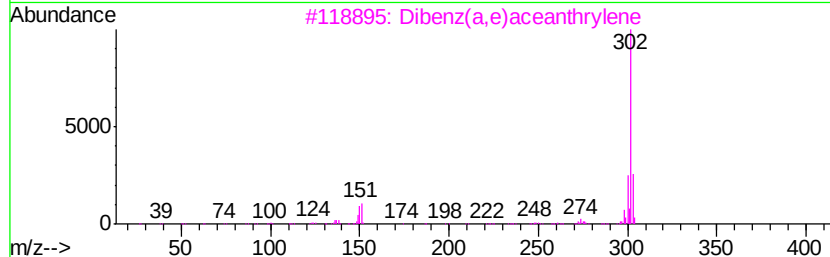
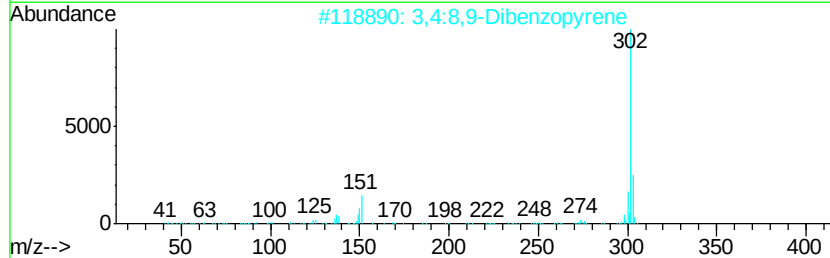
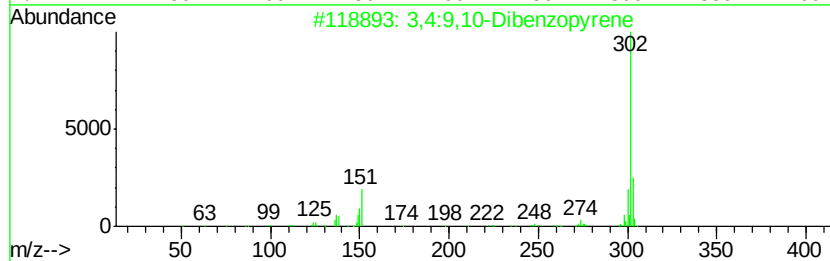
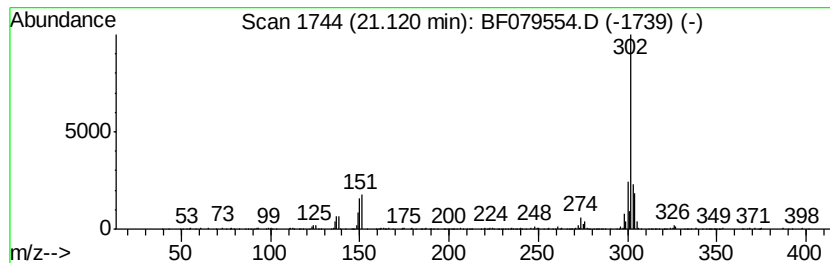
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 3,4:9,10-Dibenzopyrene Concentration Rank 11

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 21.12 | 14.66 ng | 623780 | Perylene-d12     | 17.52 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 3,4:9,10-Dibenzopyrene   | 302 | C24H14  | 000189-55-9 | 98   |
| 2    |    | 3,4:8,9-Dibenzopyrene    | 302 | C24H14  | 000189-64-0 | 97   |
| 3    |    | Dibenz(a,e)aceanthrylene | 302 | C24H14  | 005385-75-1 | 96   |
| 4    |    | 1,2:4,5-Dibenzopyrene    | 302 | C24H14  | 000192-65-4 | 95   |
| 5    |    | 1,2:3,4-Dibenzopyrene    | 302 | C24H14  | 000191-30-0 | 86   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052815\  
Data File : BF079554.D  
Acq On : 28 May 2015 20:00  
Operator : TP/IZ  
Sample : G2408-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-25S

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown6.68          | 6.68  | 67.8    | ng    | 1461930  | 1                     | 6.96  | 431114 | 20.0 |
| 9H-Fluoren-9-one     | 12.31 | 23.7    | ng    | 797021   | 4                     | 12.54 | 672819 | 20.0 |
| Naphtho[2,3-b]thi... | 12.41 | 10.3    | ng    | 345624   | 4                     | 12.54 | 672819 | 20.0 |
| Phenanthrene, 2-m... | 13.17 | 16.7    | ng    | 563233   | 4                     | 12.54 | 672819 | 20.0 |
| Phenanthrene, 1-m... | 13.20 | 17.4    | ng    | 584280   | 4                     | 12.54 | 672819 | 20.0 |
| 4H-Cyclopenta[def... | 13.30 | 24.8    | ng    | 833228   | 4                     | 12.54 | 672819 | 20.0 |
| Anthracene, 2-met... | 13.33 | 10.3    | ng    | 347530   | 4                     | 12.54 | 672819 | 20.0 |
| 2-Phenylnaphthalene  | 13.54 | 10.9    | ng    | 367077   | 4                     | 12.54 | 672819 | 20.0 |
| 9,10-Anthracenedione | 13.58 | 18.5    | ng    | 623307   | 4                     | 12.54 | 672819 | 20.0 |
| Cyclopenta(def)ph... | 13.95 | 15.7    | ng    | 526900   | 4                     | 12.54 | 672819 | 20.0 |
| Benzo[e]pyrene       | 17.20 | 13.8    | ng    | 588379   | 6                     | 17.52 | 851016 | 20.0 |
| 3,4:9,10-Dibenzop... | 21.12 | 14.7    | ng    | 623780   | 6                     | 17.52 | 851016 | 20.0 |