

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
 Data File : BF078439.D  
 Acq On : 11 Apr 2015 12:44  
 Operator : TP/IZ  
 Sample : G1793-18  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-10D

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-BF040115.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         | 1.012       | 9             | 11          | 14           | rVB      | 247821         | 286618        | 7.35%           | 0.537%        |
| 2         | 1.127       | 18            | 21          | 28           | rVB2     | 91497          | 138088        | 3.54%           | 0.259%        |
| 3         | 1.618       | 63            | 64          | 85           | rVB      | 412343         | 697796        | 17.89%          | 1.307%        |
| 4         | 5.116       | 367           | 370         | 380          | rBV      | 567833         | 662649        | 16.99%          | 1.241%        |
| 5         | 6.464       | 486           | 488         | 495          | rVB      | 704530         | 740636        | 18.99%          | 1.387%        |
| 6         | 6.579       | 495           | 498         | 500          | rBV      | 644378         | 730300        | 18.73%          | 1.368%        |
| 7         | 6.864       | 520           | 523         | 525          | rBV      | 143538         | 190681        | 4.89%           | 0.357%        |
| 8         | 7.047       | 536           | 539         | 541          | rBV      | 503277         | 522464        | 13.40%          | 0.978%        |
| 9         | 7.562       | 581           | 584         | 586          | rBV      | 513965         | 460274        | 11.80%          | 0.862%        |
| 10        | 8.442       | 659           | 661         | 662          | rBV      | 270948         | 317195        | 8.13%           | 0.594%        |
| 11        | 9.436       | 746           | 748         | 750          | rBV      | 390986         | 393012        | 10.08%          | 0.736%        |
| 12        | 9.790       | 776           | 779         | 781          | rVB      | 601449         | 829972        | 21.28%          | 1.554%        |
| 13        | 10.019      | 796           | 799         | 803          | rVB      | 74482          | 148157        | 3.80%           | 0.277%        |
| 14        | 10.088      | 803           | 805         | 808          | rBV      | 76832          | 130070        | 3.34%           | 0.244%        |
| 15        | 10.190      | 811           | 814         | 815          | rVV      | 179406         | 228264        | 5.85%           | 0.427%        |
| 16        | 10.328      | 824           | 826         | 830          | rVB      | 119510         | 157963        | 4.05%           | 0.296%        |
| 17        | 10.419      | 832           | 834         | 837          | rBV2     | 227707         | 250809        | 6.43%           | 0.470%        |
| 18        | 10.590      | 847           | 849         | 851          | rBV      | 300207         | 422473        | 10.83%          | 0.791%        |
| 19        | 10.636      | 851           | 853         | 855          | rVV      | 1561386        | 1404056       | 36.00%          | 2.629%        |
| 20        | 10.796      | 865           | 867         | 870          | rVB      | 130353         | 117681        | 3.02%           | 0.220%        |
| 21        | 10.853      | 870           | 872         | 875          | rBV2     | 195528         | 257081        | 6.59%           | 0.481%        |
| 22        | 11.219      | 901           | 904         | 907          | rBV3     | 51984          | 127514        | 3.27%           | 0.239%        |
| 23        | 11.276      | 907           | 909         | 911          | rVB      | 309928         | 386895        | 9.92%           | 0.725%        |
| 24        | 11.345      | 911           | 915         | 917          | rBV      | 120165         | 289778        | 7.43%           | 0.543%        |
| 25        | 11.402      | 919           | 920         | 922          | rVV2     | 80728          | 127445        | 3.27%           | 0.239%        |
| 26        | 11.471      | 925           | 926         | 930          | rVB3     | 100597         | 185152        | 4.75%           | 0.347%        |
| 27        | 11.573      | 933           | 935         | 938          | rVB      | 619077         | 707425        | 18.14%          | 1.325%        |
| 28        | 11.951      | 966           | 968         | 970          | rVV      | 163954         | 245027        | 6.28%           | 0.459%        |
| 29        | 12.053      | 973           | 977         | 979          | rVB      | 119011         | 175173        | 4.49%           | 0.328%        |
| 30        | 12.133      | 981           | 984         | 986          | rBV3     | 57707          | 114954        | 2.95%           | 0.215%        |
| 31        | 12.293      | 996           | 998         | 1001         | rVB      | 189736         | 193375        | 4.96%           | 0.362%        |
| 32        | 12.419      | 1007          | 1009        | 1010         | rBV      | 301014         | 385152        | 9.88%           | 0.721%        |
| 33        | 12.454      | 1010          | 1012        | 1014         | rVV      | 2457214        | 3161172       | 81.06%          | 5.920%        |
| 34        | 12.522      | 1014          | 1018        | 1020         | rVB      | 1182056        | 1449429       | 37.17%          | 2.714%        |

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 Sampling : 1  
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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-BF040115.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 12.579 | 1020 | 1023 | 1025 | rBV  | 72185   | 122083  | 3.13%   | 0.229% |
| 36 | 12.808 | 1041 | 1043 | 1047 | rVB2 | 163566  | 202931  | 5.20%   | 0.380% |
| 37 | 13.048 | 1062 | 1064 | 1066 | rBV  | 548873  | 598010  | 15.33%  | 1.120% |
| 38 | 13.082 | 1066 | 1067 | 1070 | rVB  | 539689  | 472154  | 12.11%  | 0.884% |
| 39 | 13.139 | 1070 | 1072 | 1074 | rBV  | 297775  | 342165  | 8.77%   | 0.641% |
| 40 | 13.174 | 1074 | 1075 | 1077 | rBV  | 716110  | 1072187 | 27.49%  | 2.008% |
| 41 | 13.425 | 1095 | 1097 | 1101 | rVB  | 491843  | 519936  | 13.33%  | 0.974% |
| 42 | 13.482 | 1101 | 1102 | 1108 | rVB3 | 126793  | 234570  | 6.01%   | 0.439% |
| 43 | 13.619 | 1111 | 1114 | 1115 | rVV2 | 212816  | 308695  | 7.92%   | 0.578% |
| 44 | 13.734 | 1121 | 1124 | 1126 | rBV  | 247221  | 364898  | 9.36%   | 0.683% |
| 45 | 13.768 | 1126 | 1127 | 1131 | rVV2 | 196402  | 348888  | 8.95%   | 0.653% |
| 46 | 13.848 | 1131 | 1134 | 1137 | rVV  | 112990  | 205031  | 5.26%   | 0.384% |
| 47 | 13.928 | 1137 | 1141 | 1143 | rVV  | 2715972 | 3309017 | 84.85%  | 6.197% |
| 48 | 13.962 | 1143 | 1144 | 1146 | rVV2 | 87413   | 143147  | 3.67%   | 0.268% |
| 49 | 14.008 | 1146 | 1148 | 1149 | rVV  | 1524317 | 1718793 | 44.07%  | 3.219% |
| 50 | 14.031 | 1149 | 1150 | 1154 | rVB  | 369674  | 472177  | 12.11%  | 0.884% |
| 51 | 14.099 | 1154 | 1156 | 1157 | rBV  | 117959  | 139993  | 3.59%   | 0.262% |
| 52 | 14.202 | 1162 | 1165 | 1168 | rVV  | 2901683 | 3899786 | 100.00% | 7.303% |
| 53 | 14.351 | 1177 | 1178 | 1181 | rBV  | 97758   | 172886  | 4.43%   | 0.324% |
| 54 | 14.419 | 1181 | 1184 | 1186 | rVV  | 792879  | 1068040 | 27.39%  | 2.000% |
| 55 | 14.477 | 1186 | 1189 | 1191 | rVB2 | 163676  | 248334  | 6.37%   | 0.465% |
| 56 | 14.568 | 1195 | 1197 | 1199 | rBV  | 414548  | 622058  | 15.95%  | 1.165% |
| 57 | 14.614 | 1199 | 1201 | 1203 | rVB  | 526741  | 606969  | 15.56%  | 1.137% |
| 58 | 14.694 | 1206 | 1208 | 1210 | rVV  | 478704  | 513133  | 13.16%  | 0.961% |
| 59 | 14.739 | 1210 | 1212 | 1213 | rVV  | 328062  | 375584  | 9.63%   | 0.703% |
| 60 | 14.819 | 1217 | 1219 | 1220 | rBV2 | 107400  | 148701  | 3.81%   | 0.278% |
| 61 | 14.842 | 1220 | 1221 | 1223 | rVV  | 233594  | 263493  | 6.76%   | 0.493% |
| 62 | 14.888 | 1223 | 1225 | 1228 | rVB  | 191678  | 289350  | 7.42%   | 0.542% |
| 63 | 15.139 | 1243 | 1247 | 1250 | rVV2 | 105132  | 278137  | 7.13%   | 0.521% |
| 64 | 15.220 | 1250 | 1254 | 1259 | rVV3 | 99074   | 301888  | 7.74%   | 0.565% |
| 65 | 15.368 | 1264 | 1267 | 1269 | rVV  | 184139  | 280327  | 7.19%   | 0.525% |
| 66 | 15.414 | 1269 | 1271 | 1274 | rVV2 | 282880  | 596684  | 15.30%  | 1.117% |
| 67 | 15.460 | 1274 | 1275 | 1278 | rVV2 | 91191   | 120940  | 3.10%   | 0.226% |
| 68 | 15.597 | 1283 | 1287 | 1290 | rVV3 | 107239  | 246698  | 6.33%   | 0.462% |
| 69 | 15.677 | 1291 | 1294 | 1296 | rVV2 | 1360052 | 2446720 | 62.74%  | 4.582% |
| 70 | 15.722 | 1296 | 1298 | 1300 | rVV  | 1227329 | 1392743 | 35.71%  | 2.608% |
| 71 | 15.768 | 1300 | 1302 | 1303 | rVV2 | 88120   | 115491  | 2.96%   | 0.216% |

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ClientSampleId :  
SB-10D

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-BF040115.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 15.814 | 1303 | 1306 | 1308 | rVV  | 267647  | 320796  | 8.23%  | 0.601% |
| 73  | 15.871 | 1308 | 1311 | 1313 | rVV2 | 98063   | 155009  | 3.97%  | 0.290% |
| 74  | 15.985 | 1319 | 1321 | 1326 | rVB  | 105431  | 184692  | 4.74%  | 0.346% |
| 75  | 16.111 | 1328 | 1332 | 1333 | rBV2 | 52241   | 132839  | 3.41%  | 0.249% |
| 76  | 16.180 | 1336 | 1338 | 1340 | rVV  | 231861  | 386345  | 9.91%  | 0.723% |
| 77  | 16.225 | 1340 | 1342 | 1344 | rVV  | 116295  | 119531  | 3.07%  | 0.224% |
| 78  | 16.305 | 1344 | 1349 | 1350 | rVV2 | 145283  | 294380  | 7.55%  | 0.551% |
| 79  | 16.362 | 1350 | 1354 | 1355 | rVV2 | 155628  | 345672  | 8.86%  | 0.647% |
| 80  | 16.454 | 1360 | 1362 | 1365 | rVB  | 84221   | 118973  | 3.05%  | 0.223% |
| 81  | 16.797 | 1390 | 1392 | 1396 | rBV2 | 50298   | 116429  | 2.99%  | 0.218% |
| 82  | 16.980 | 1404 | 1408 | 1413 | rBV  | 901283  | 2167801 | 55.59% | 4.059% |
| 83  | 17.083 | 1413 | 1417 | 1420 | rVB2 | 261312  | 396275  | 10.16% | 0.742% |
| 84  | 17.208 | 1425 | 1428 | 1429 | rBV2 | 65885   | 137594  | 3.53%  | 0.258% |
| 85  | 17.288 | 1432 | 1435 | 1437 | rVB  | 809611  | 946423  | 24.27% | 1.772% |
| 86  | 17.357 | 1437 | 1441 | 1443 | rVB  | 1160627 | 1556214 | 39.91% | 2.914% |
| 87  | 17.414 | 1444 | 1446 | 1447 | rBV  | 367484  | 454596  | 11.66% | 0.851% |
| 88  | 17.437 | 1447 | 1448 | 1450 | rVB  | 213855  | 244197  | 6.26%  | 0.457% |
| 89  | 17.620 | 1458 | 1464 | 1469 | rBV2 | 100112  | 454748  | 11.66% | 0.852% |
| 90  | 17.700 | 1469 | 1471 | 1474 | rVV2 | 59697   | 143081  | 3.67%  | 0.268% |
| 91  | 17.917 | 1487 | 1490 | 1492 | rVB  | 116135  | 191213  | 4.90%  | 0.358% |
| 92  | 18.534 | 1540 | 1544 | 1546 | rBV2 | 130342  | 269396  | 6.91%  | 0.504% |
| 93  | 18.671 | 1552 | 1556 | 1560 | rVB2 | 490558  | 860633  | 22.07% | 1.612% |
| 94  | 18.740 | 1560 | 1562 | 1566 | rVB  | 63324   | 119141  | 3.06%  | 0.223% |
| 95  | 18.820 | 1566 | 1569 | 1571 | rBV  | 110520  | 202096  | 5.18%  | 0.378% |
| 96  | 19.026 | 1583 | 1587 | 1592 | rBV  | 430945  | 818967  | 21.00% | 1.534% |
| 97  | 19.220 | 1600 | 1604 | 1611 | rVB  | 192927  | 478265  | 12.26% | 0.896% |
| 98  | 19.986 | 1667 | 1671 | 1676 | rVB3 | 39858   | 116913  | 3.00%  | 0.219% |
| 99  | 20.843 | 1741 | 1746 | 1752 | rVB  | 88608   | 305413  | 7.83%  | 0.572% |
| 100 | 20.969 | 1754 | 1757 | 1762 | rBV2 | 50936   | 166006  | 4.26%  | 0.311% |

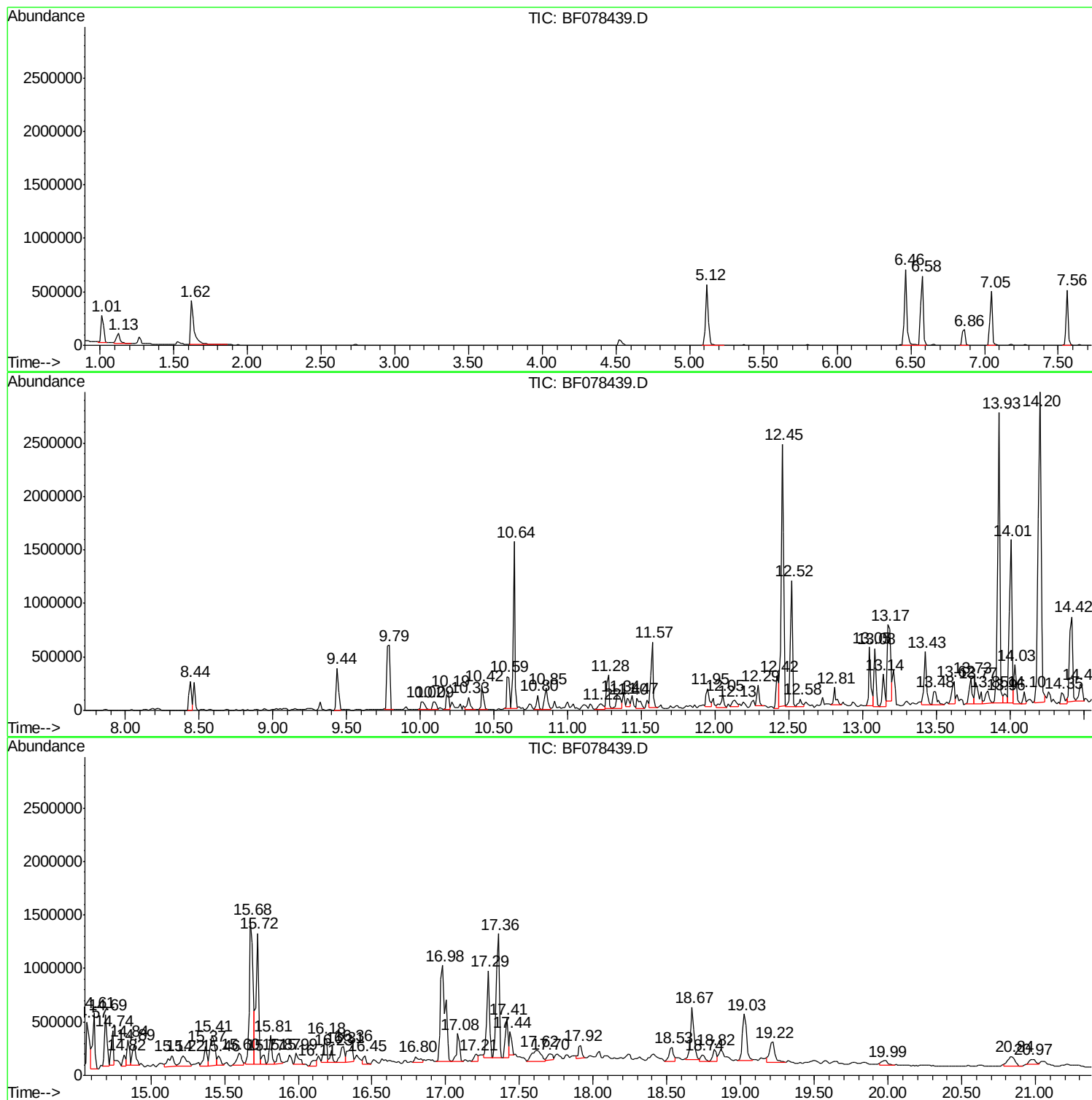
Sum of corrected areas: 53401005

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.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\BF041015\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

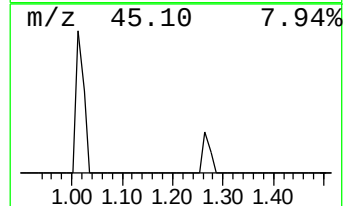
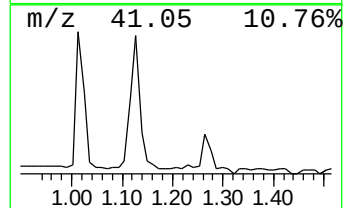
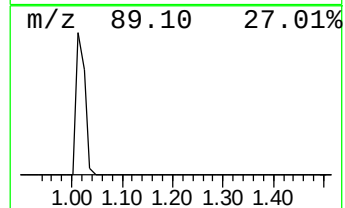
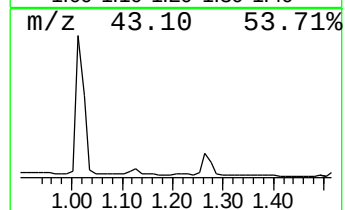
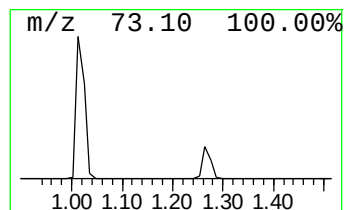
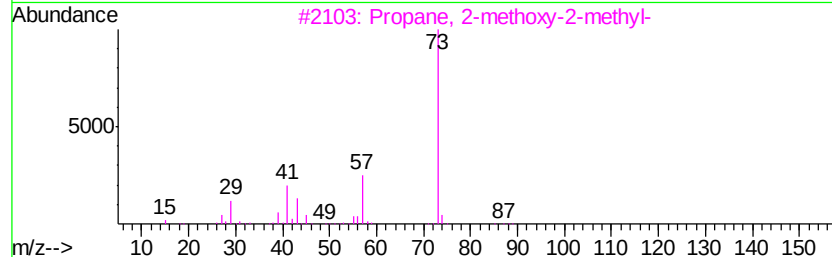
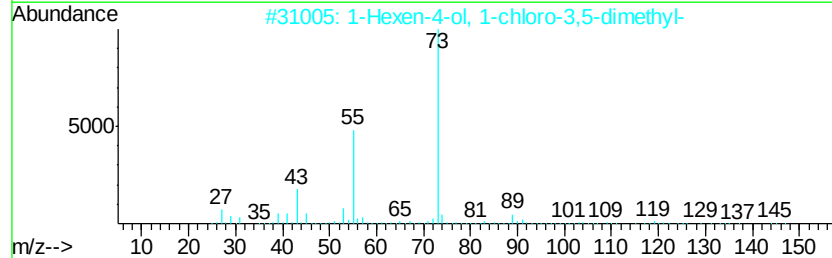
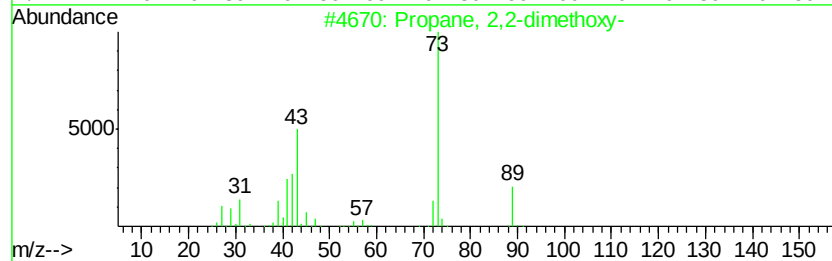
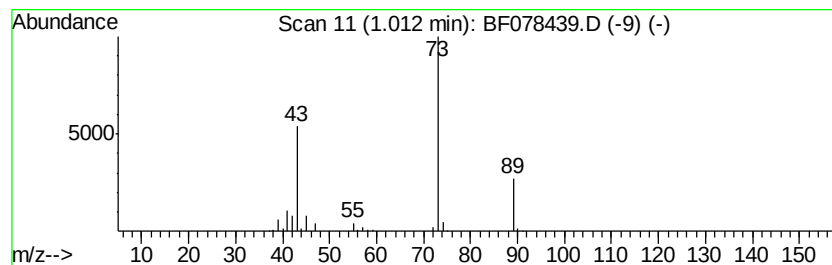
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.01 | 30.06 ng | 286618 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2  | 000077-76-9 | 72   |
| 2    |    | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9    |
| 3    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4 | 9    |
| 4    |    | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2  | 000644-49-5 | 9    |
| 5    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3  | 003739-30-8 | 9    |



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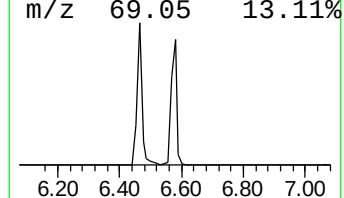
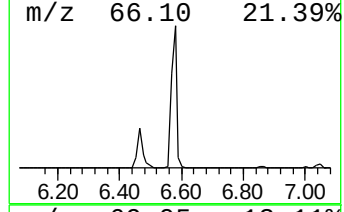
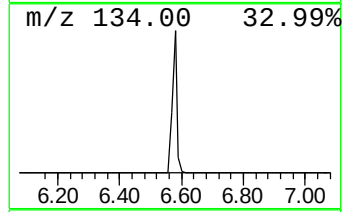
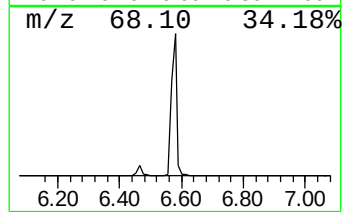
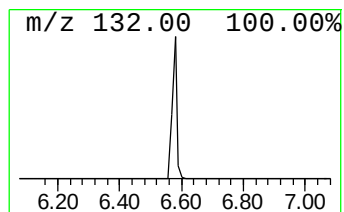
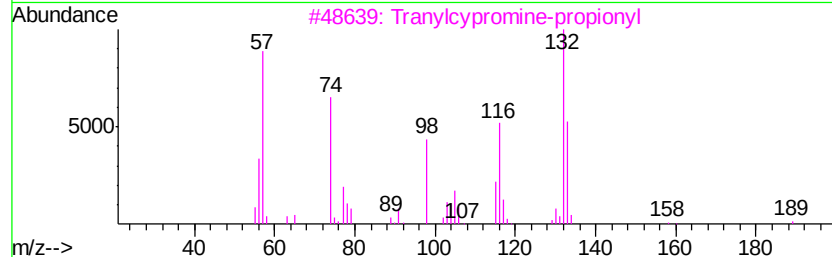
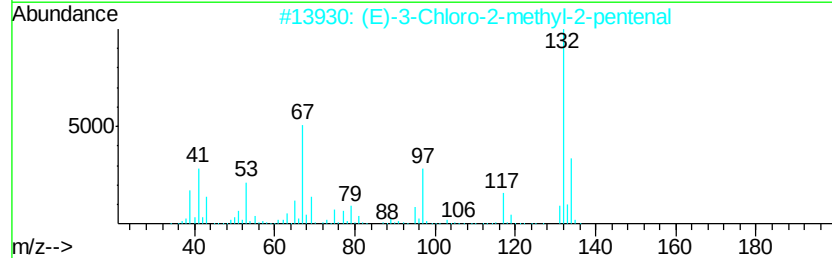
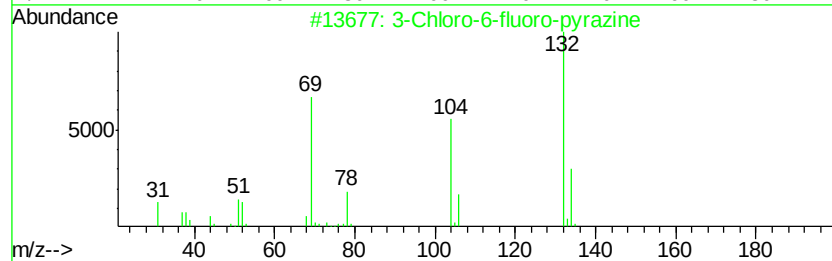
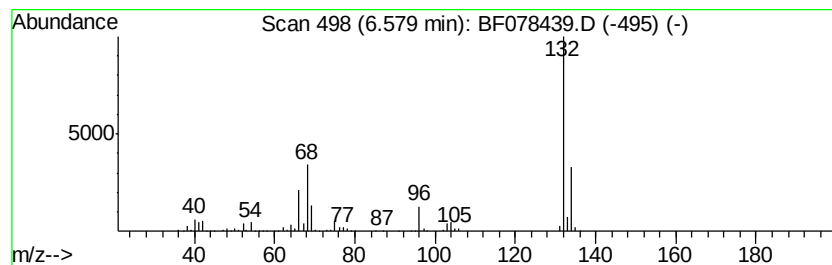
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 unknown6.58 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.58 | 76.60 ng | 730300 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 12   |
| 5    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

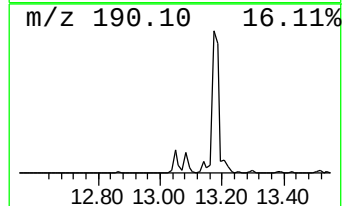
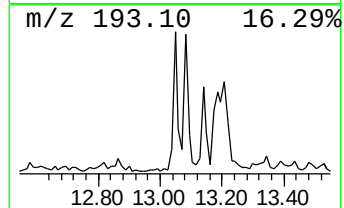
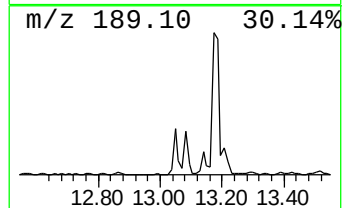
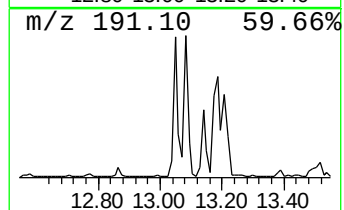
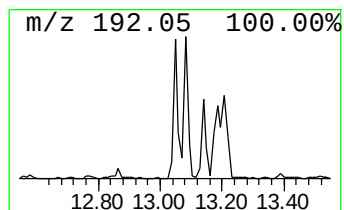
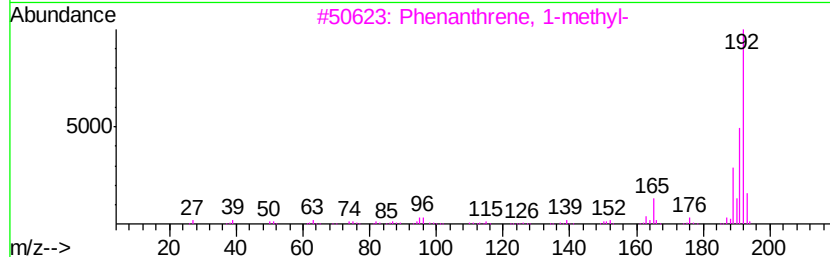
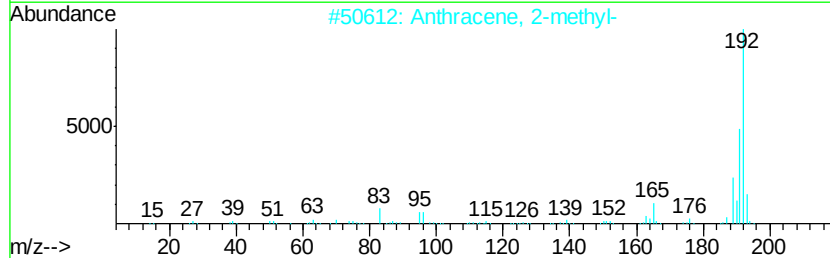
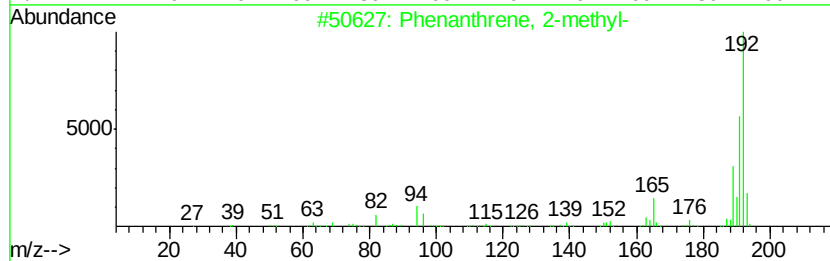
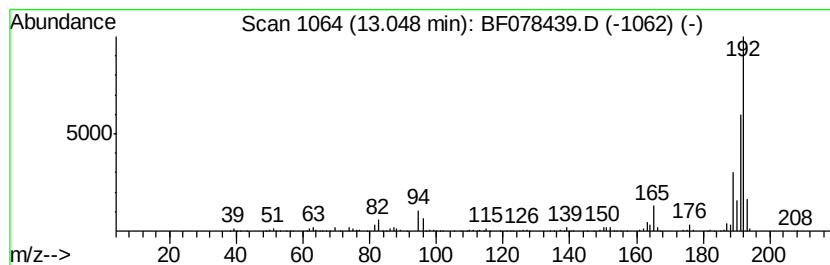
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SB-10D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.05     | 31.05 ng                            | 598010 | Phenanthrene-d10 | 12.42       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 98   |
| 2         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 96   |
| 3         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 94   |
| 4         | 1H-Cyclopropa[l]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 93   |
| 5         | Anthracene, 1-methyl-               | 192    | C15H12           | 000610-48-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

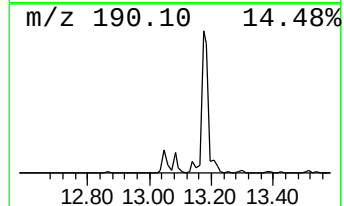
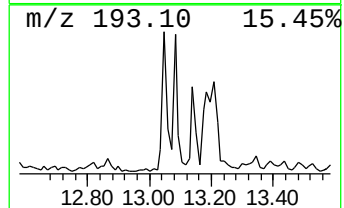
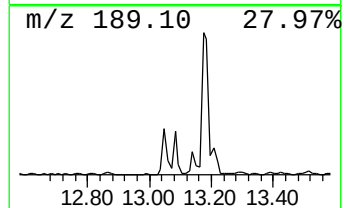
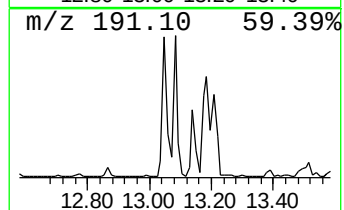
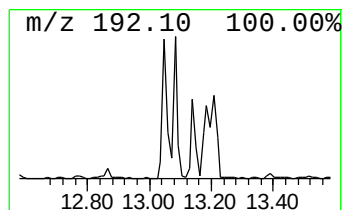
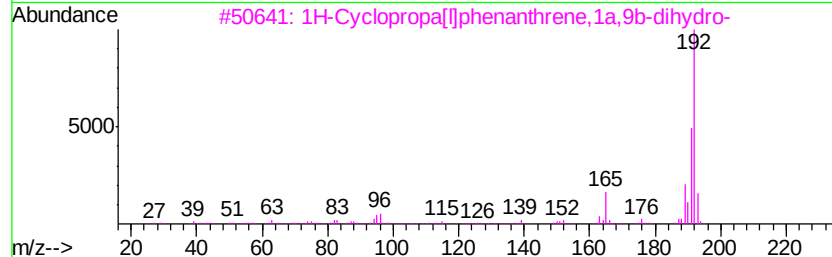
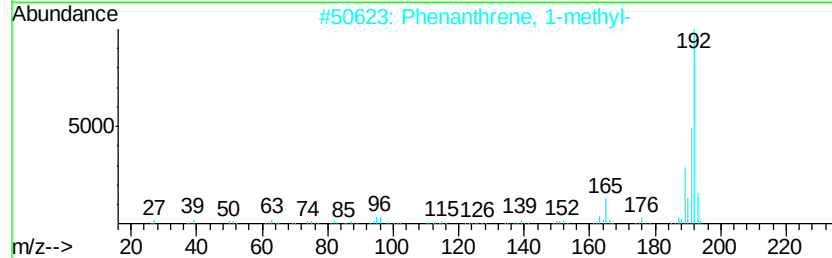
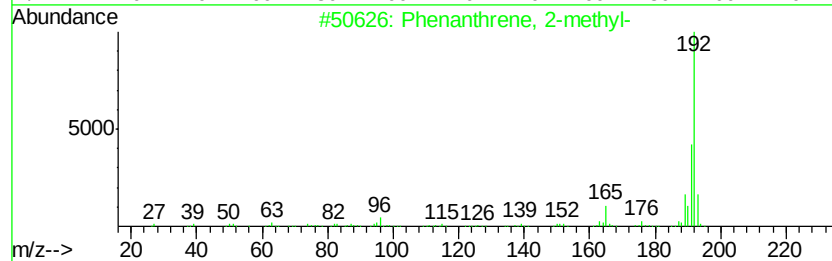
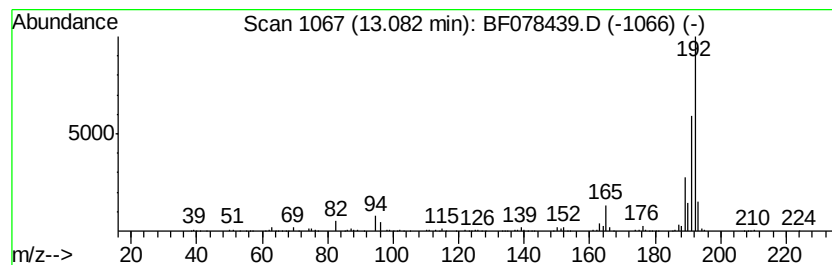
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ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 12

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.08     | 24.52 ng                            | 472154 | Phenanthrene-d10 | 12.42       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 97   |
| 2         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 96   |
| 3         | 1H-Cyclopropa[l]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 95   |
| 4         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 94   |
| 5         | Anthracene, 9-methyl-               | 192    | C15H12           | 000779-02-2 | 93   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

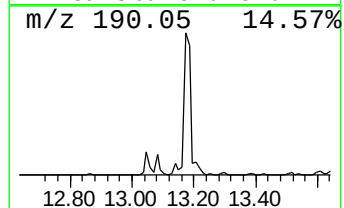
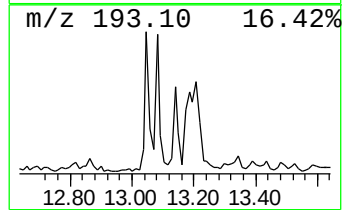
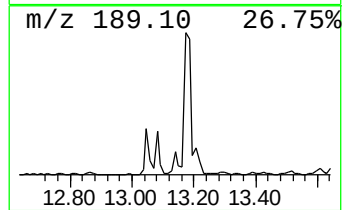
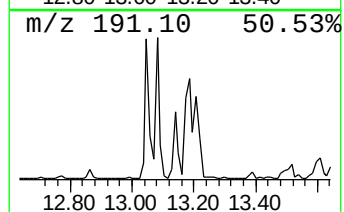
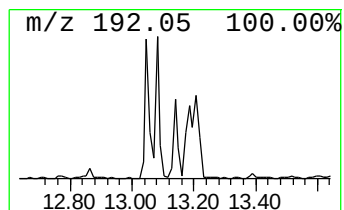
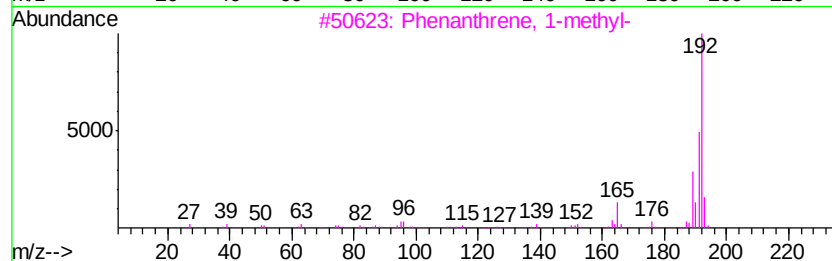
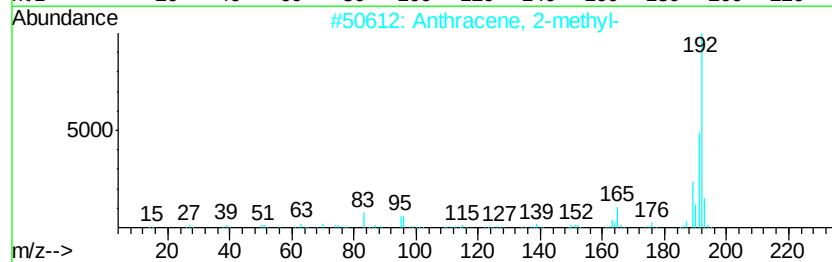
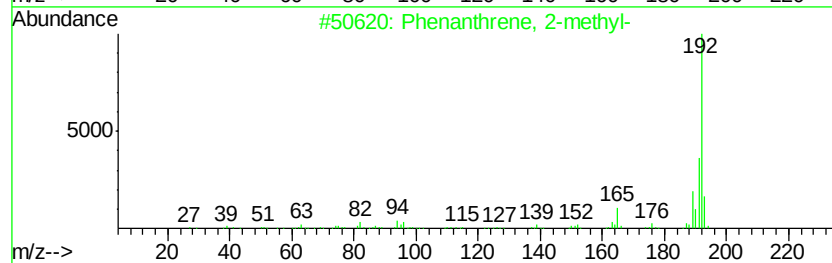
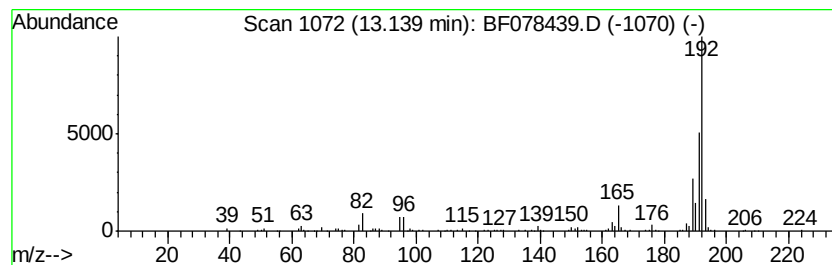
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Anthracene, 2-methyl- Concentration Rank 17

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.14 | 17.77 ng | 342165 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 2    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 96   |
| 5    |    | 1H-Indene, 2-phenyl-                  | 192 | C15H12  | 004505-48-0 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

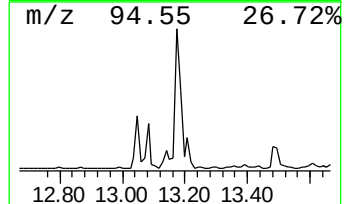
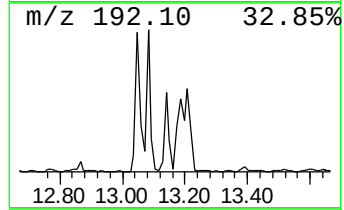
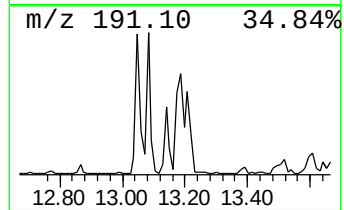
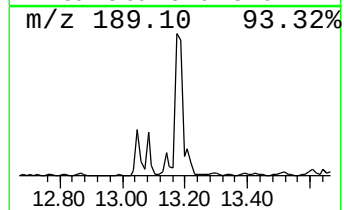
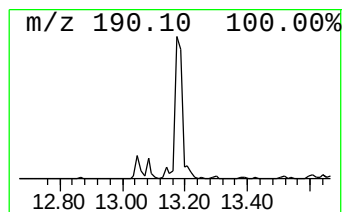
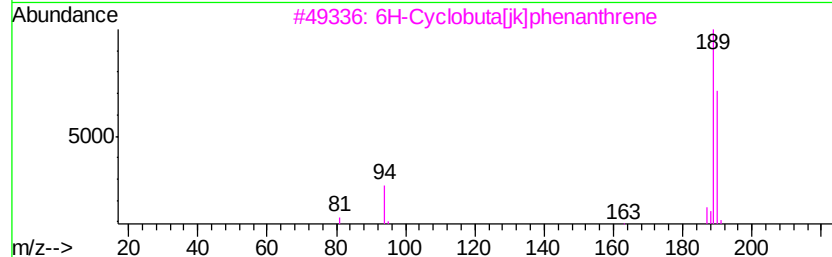
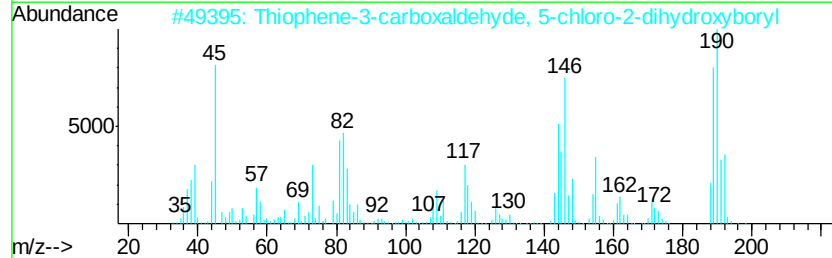
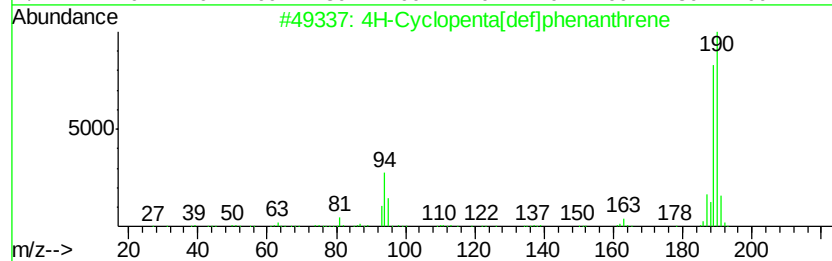
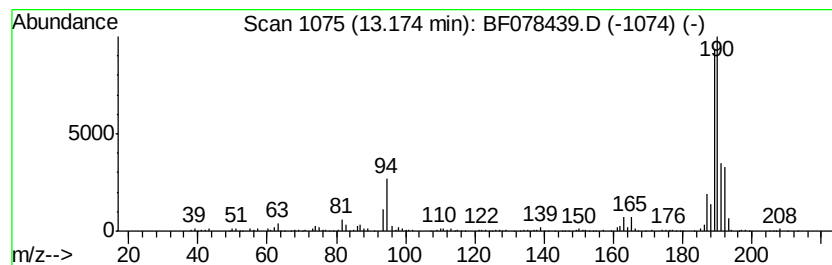
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.17 | 55.68 ng | 1072190 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 94   |
| 2    |    | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 53   |
| 3    |    | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10     | 083469-43-6 | 50   |
| 4    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2 | 45   |
| 5    |    | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4    | 004923-55-1 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
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Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

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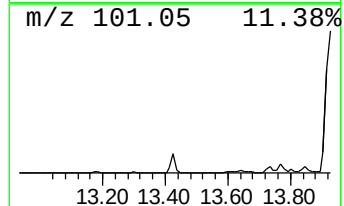
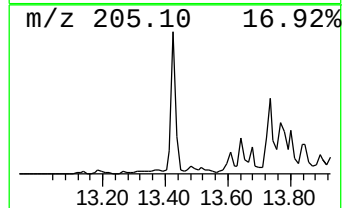
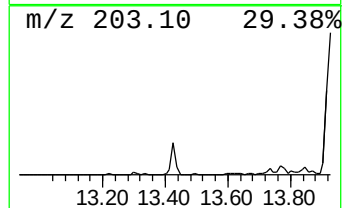
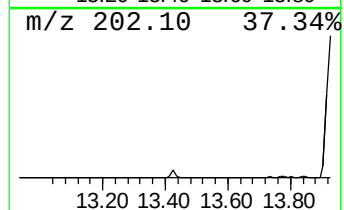
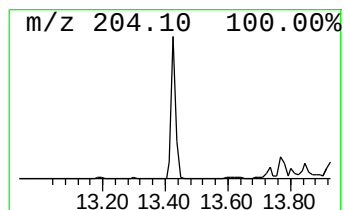
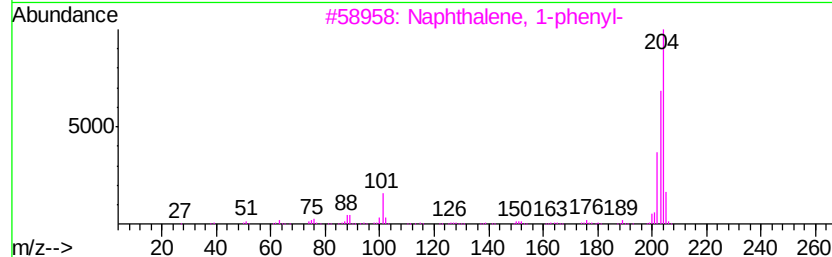
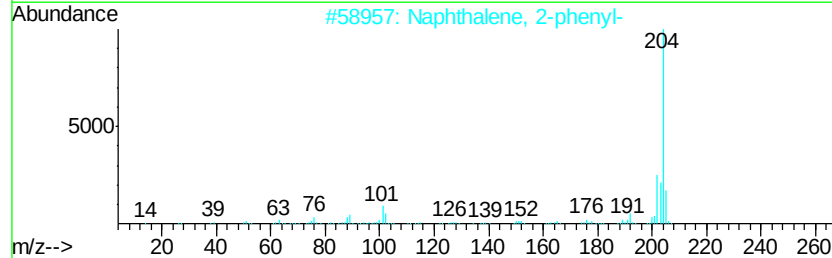
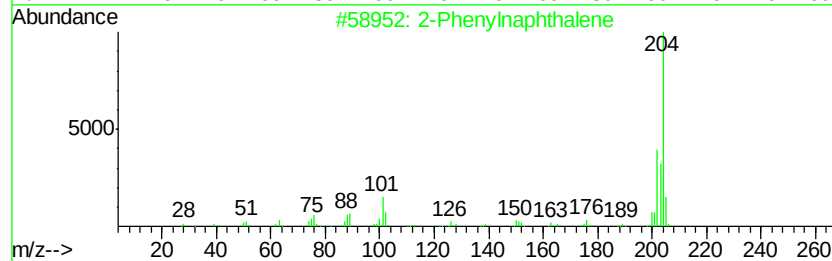
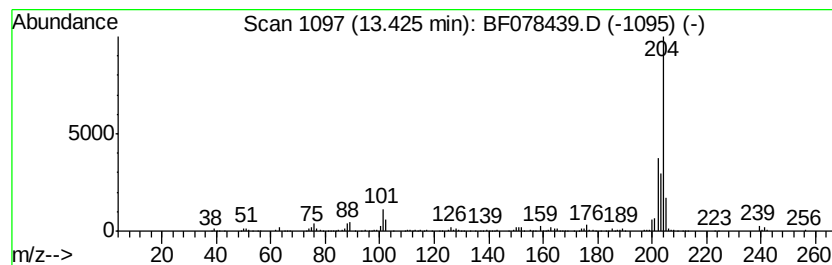
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 2-Phenylnaphthalene Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.43 | 27.00 ng | 519936 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Phenylnaphthalene                 | 204 | C16H12  | 035465-71-5 | 95   |
| 2    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 91   |
| 3    |    | Naphthalene, 1-phenyl-              | 204 | C16H12  | 000605-02-7 | 86   |
| 4    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 86   |
| 5    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 83   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

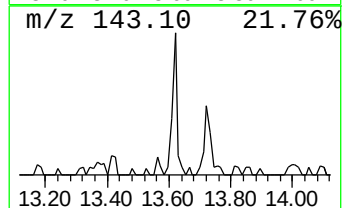
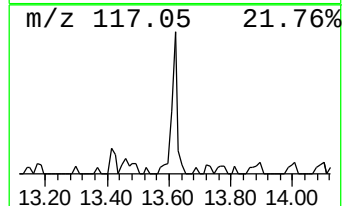
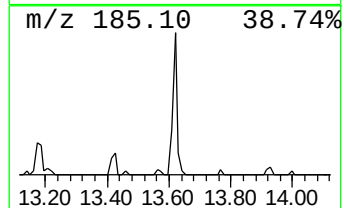
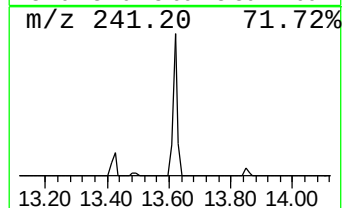
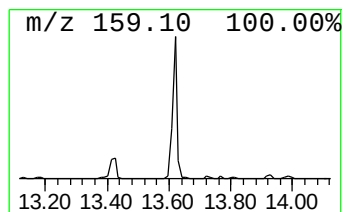
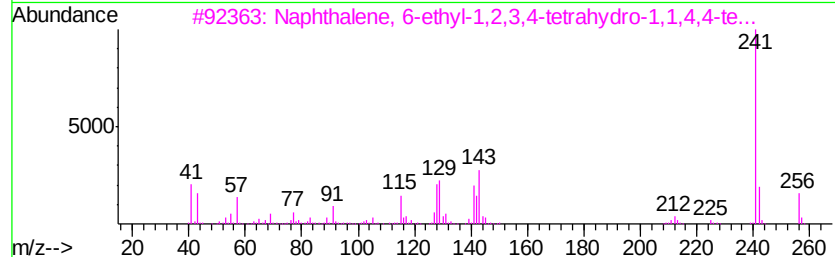
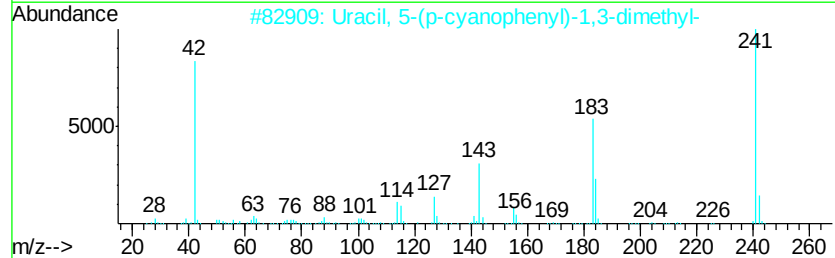
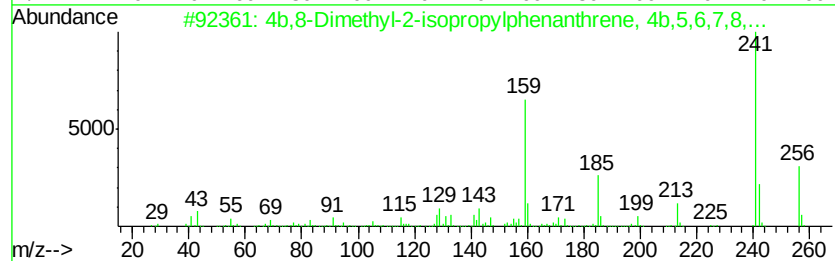
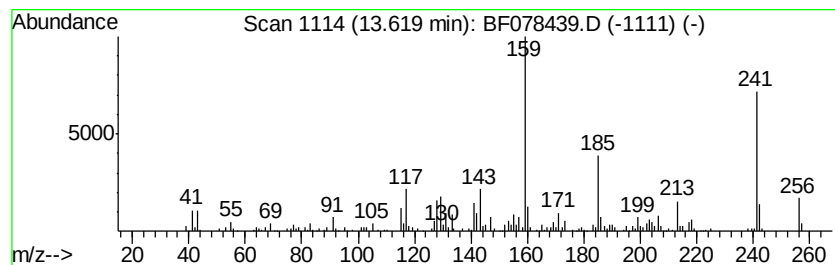
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 4b,8-Dimethyl-2-isopropylph... Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.62 | 16.03 ng | 308695 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28     | 1000197-14-1 | 95   |
| 2    |    | Uracil, 5-(p-cyanophenyl)-1,3-di... | 241 | C13H11N3O2 | 1000164-78-4 | 35   |
| 3    |    | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28     | 301643-35-6  | 30   |
| 4    |    | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15N02  | 1000212-95-2 | 27   |
| 5    |    | 2-Pentyl-1H-quinolin-4-one          | 215 | C14H17N0   | 109072-26-6  | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

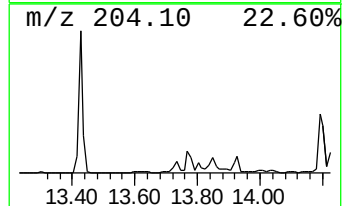
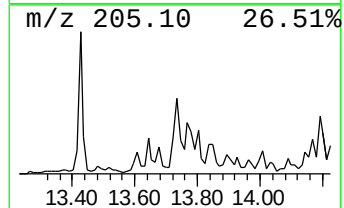
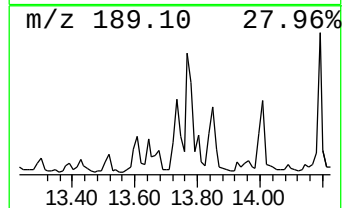
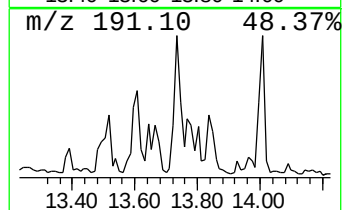
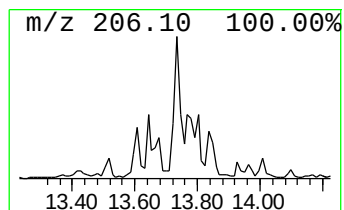
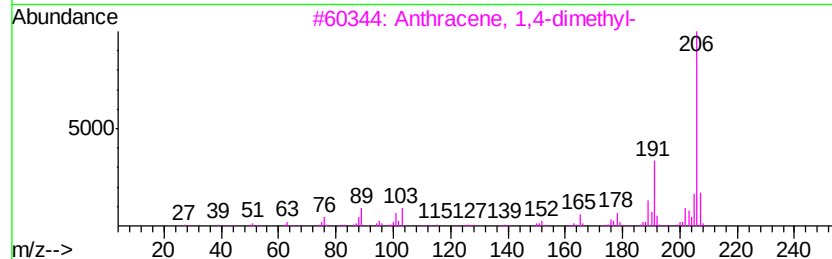
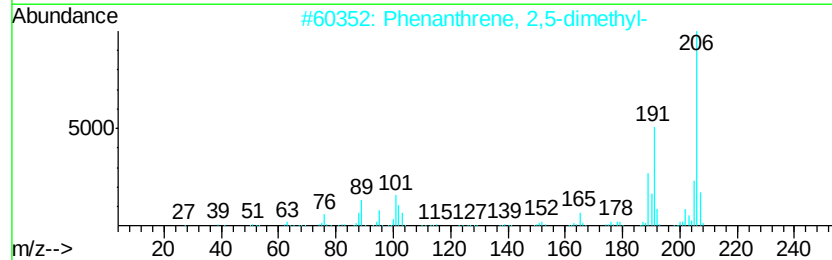
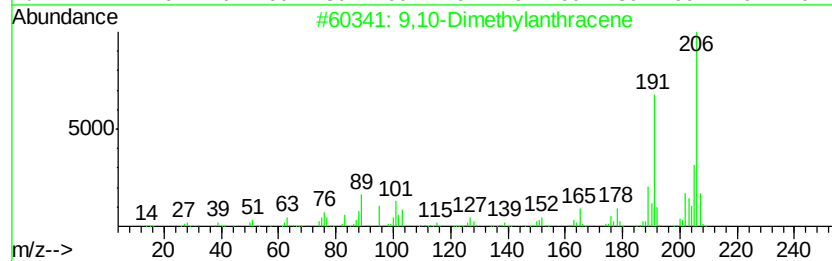
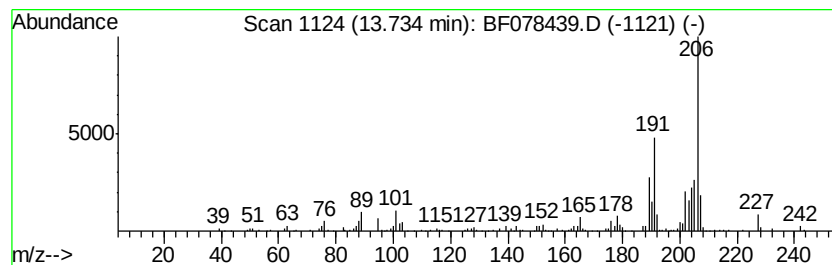
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 9,10-Dimethylantracene Concentration Rank 15

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.73 | 18.95 ng | 364898 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 95   |
| 2    |    | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 3    |    | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 93   |
| 4    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 86   |
| 5    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

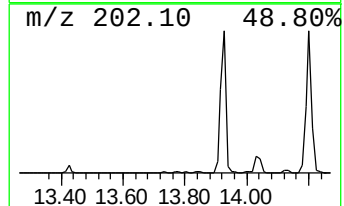
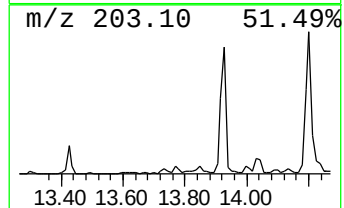
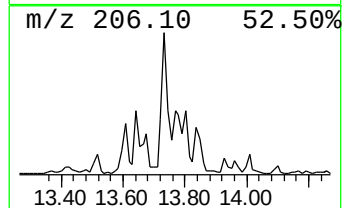
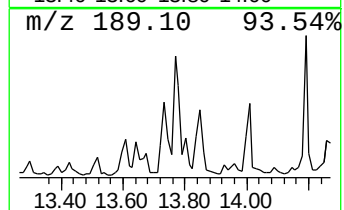
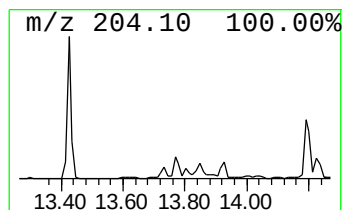
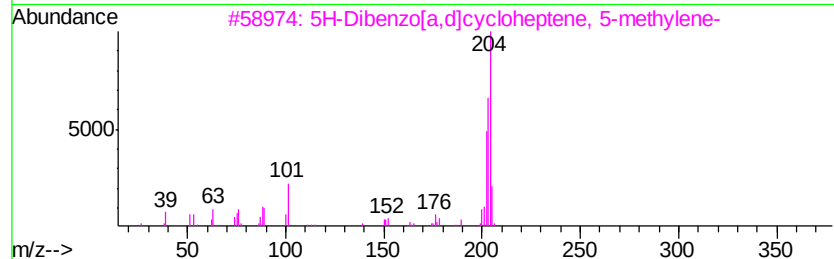
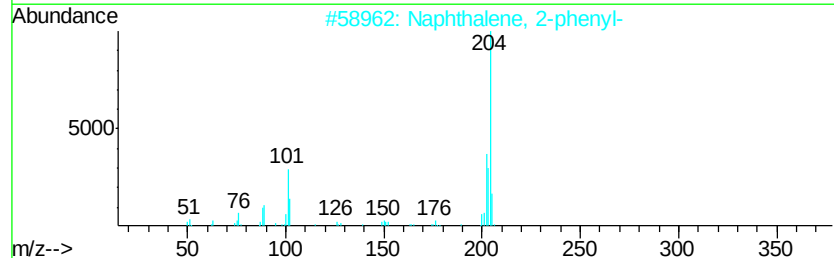
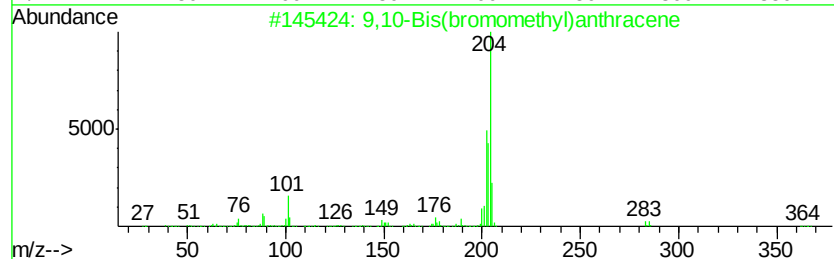
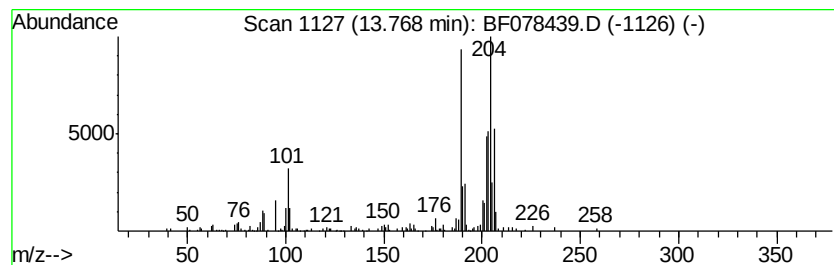
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 9,10-Bis(bromomethyl)anthra... Concentration Rank 16

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.77 | 18.12 ng | 348888 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 43   |
| 2    |    | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 38   |
| 3    |    | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204 | C16H12    | 002975-79-3 | 38   |
| 4    |    | Anthracene, 9-ethenyl-              | 204 | C16H12    | 002444-68-0 | 35   |
| 5    |    | Pyrene, 4,5,9,10-tetrahydro-        | 206 | C16H14    | 000781-17-9 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

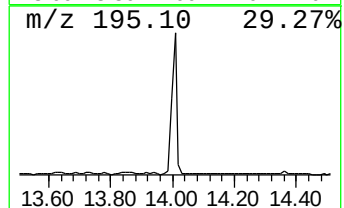
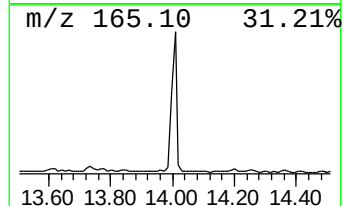
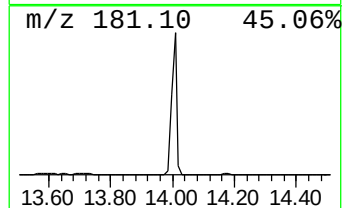
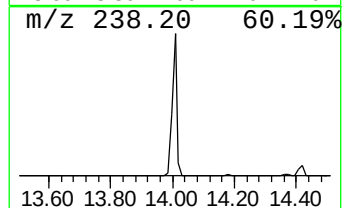
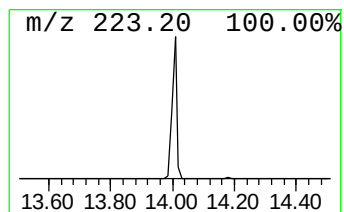
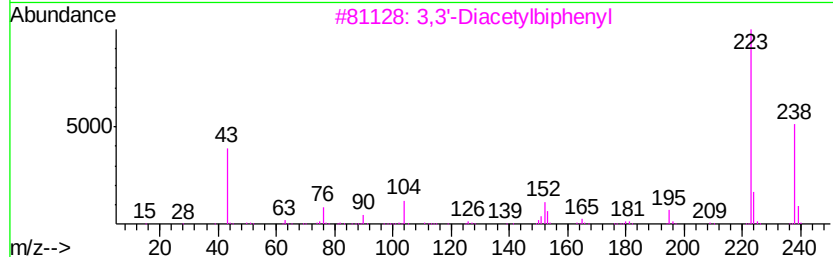
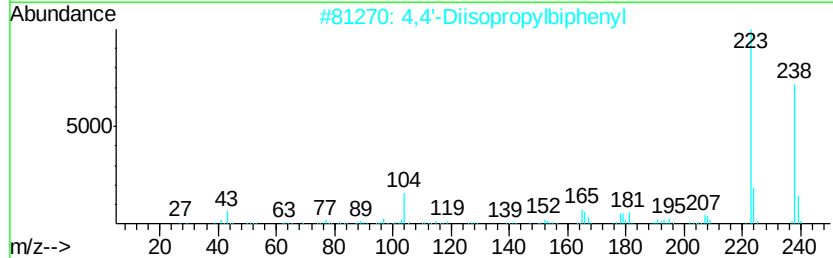
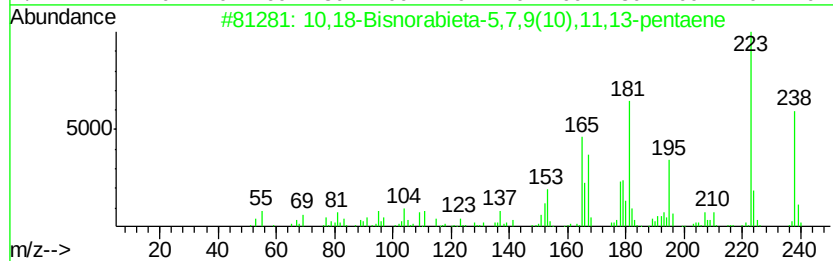
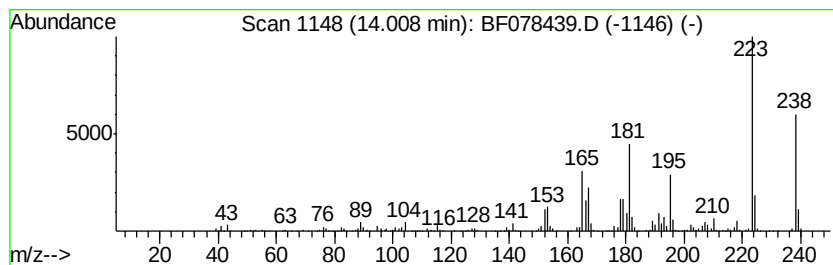
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.01 | 89.25 ng | 1718790 | Phenanthrene-d10 | 12.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22   | 006566-19-4 | 99   |
| 2    |    | 4,4'-Diisopropylbiphenyl            | 238 | C18H22   | 018970-30-4 | 60   |
| 3    |    | 3,3'-Diacetylbiiphenyl              | 238 | C16H14O2 | 094113-07-2 | 49   |
| 4    |    | 4-tert-Butyl-benzophenone           | 238 | C17H18O  | 022679-54-5 | 47   |
| 5    |    | 9,10-Anthracenedione, 1-amino-      | 223 | C14H9NO2 | 000082-45-1 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

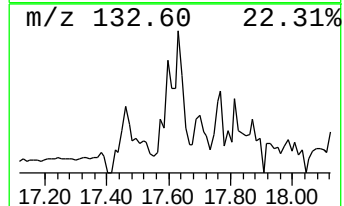
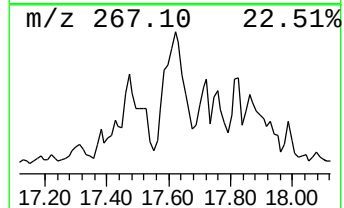
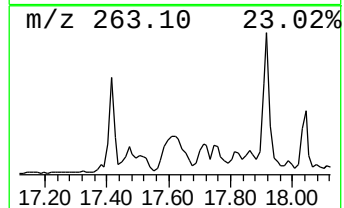
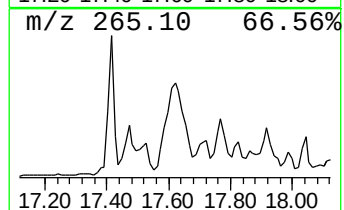
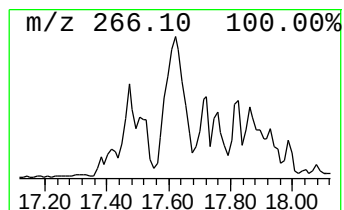
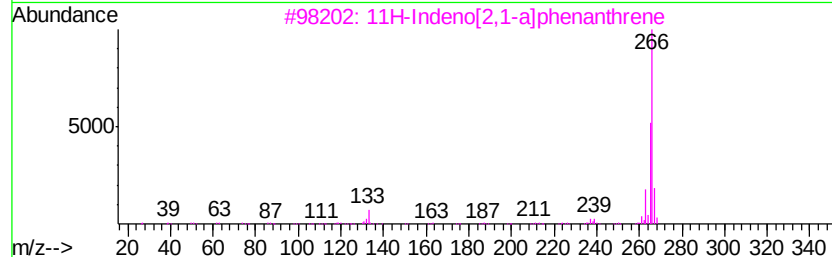
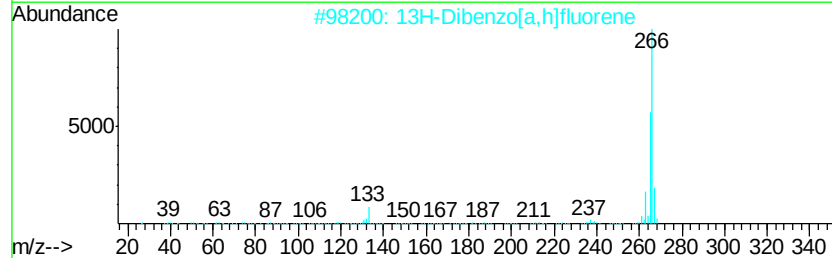
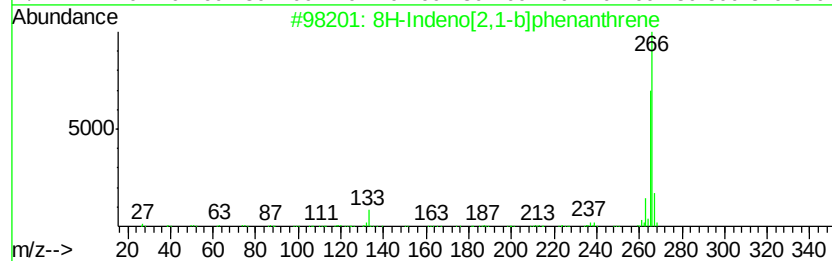
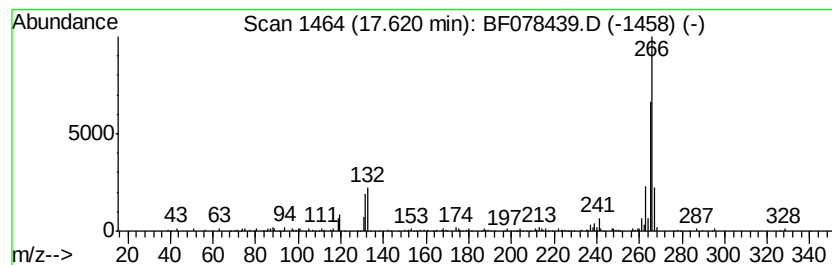
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 8H-Indeno[2,1-b]phenanthrene Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.62 | 20.01 ng | 454748 | Perylene-d12     | 17.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 8H-Indeno[2,1-b]phenanthrene        | 266 | C21H14    | 000241-28-1 | 93   |
| 2    |    | 13H-Dibenzo[a,h]fluorene            | 266 | C21H14    | 000239-85-0 | 92   |
| 3    |    | 11H-Indeno[2,1-a]phenanthrene       | 266 | C21H14    | 000220-97-3 | 86   |
| 4    |    | Perylene, 3-methyl-                 | 266 | C21H14    | 024471-47-4 | 53   |
| 5    |    | Thiazole, 4-phenyl-2-(4-tolylami... | 266 | C16H14N2S | 016098-04-7 | 53   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
Data File : BF078439.D  
Acq On : 11 Apr 2015 12:44  
Operator : TP/IZ  
Sample : G1793-18  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

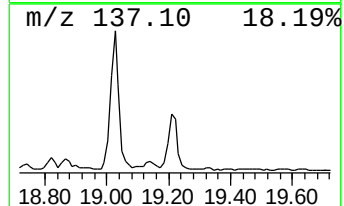
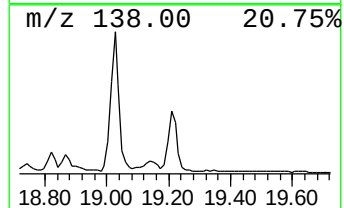
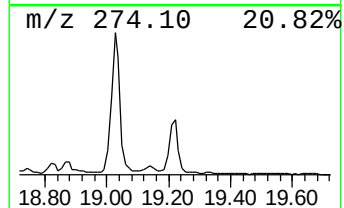
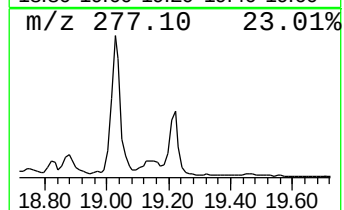
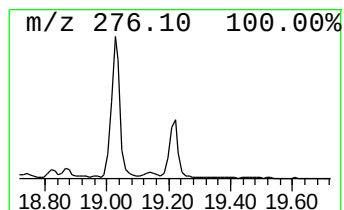
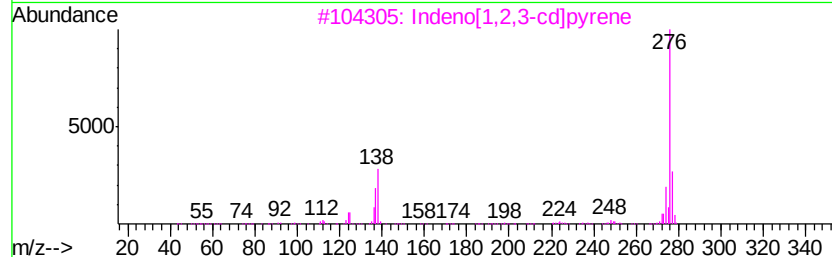
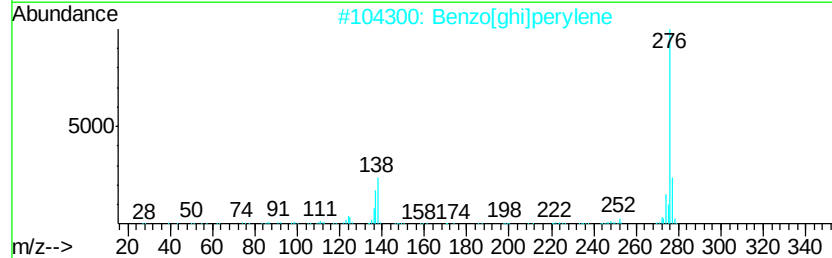
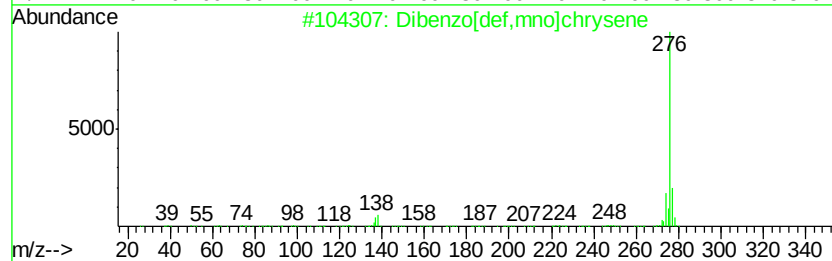
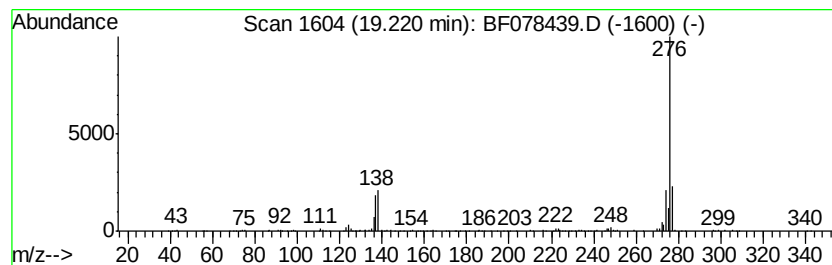
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 13

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 19.22 | 21.04 ng | 478265 | Perylene-d12     | 17.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Dibenzo[def,mno]chrysene            | 276 | C22H12      | 000191-26-4  | 93   |
| 2    |    | Benzo[ghi]perylene                  | 276 | C22H12      | 000191-24-2  | 93   |
| 3    |    | Indeno[1,2,3-cd]pyrene              | 276 | C22H12      | 000193-39-5  | 87   |
| 4    |    | Indeno[1,2,3-cd]fluoranthene        | 276 | C22H12      | 000193-43-1  | 74   |
| 5    |    | Phenol, 2-(4-chlorophenyliminome... | 276 | C13H9ClN2O3 | 1000262-90-3 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041015\  
 Data File : BF078439.D  
 Acq On : 11 Apr 2015 12:44  
 Operator : TP/IZ  
 Sample : G1793-18  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-10D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.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 |
| Propane, 2,2-dime...  | 1.01  | 30.1    | ng    | 286618   | 1                     | 6.86  | 190681 | 20.0 |
| unknown6.58           | 6.58  | 76.6    | ng    | 730300   | 1                     | 6.86  | 190681 | 20.0 |
| Phenanthrene, 2-m...  | 13.05 | 31.1    | ng    | 598010   | 4                     | 12.42 | 385152 | 20.0 |
| Phenanthrene, 1-m...  | 13.08 | 24.5    | ng    | 472154   | 4                     | 12.42 | 385152 | 20.0 |
| Anthracene, 2-met...  | 13.14 | 17.8    | ng    | 342165   | 4                     | 12.42 | 385152 | 20.0 |
| 4H-Cyclopenta[def...  | 13.17 | 55.7    | ng    | 1072190  | 4                     | 12.42 | 385152 | 20.0 |
| 2-Phenylnaphthalene   | 13.43 | 27.0    | ng    | 519936   | 4                     | 12.42 | 385152 | 20.0 |
| 4b,8-Dimethyl-2-i...  | 13.62 | 16.0    | ng    | 308695   | 4                     | 12.42 | 385152 | 20.0 |
| 9,10-Dimethylanthe... | 13.73 | 18.9    | ng    | 364898   | 4                     | 12.42 | 385152 | 20.0 |
| 9,10-Bis(bromomet...  | 13.77 | 18.1    | ng    | 348888   | 4                     | 12.42 | 385152 | 20.0 |
| 10,18-Bisnorabiet...  | 14.01 | 89.3    | ng    | 1718790  | 4                     | 12.42 | 385152 | 20.0 |
| 8H-Indeno[2,1-b]p...  | 17.62 | 20.0    | ng    | 454748   | 6                     | 17.41 | 454596 | 20.0 |
| Dibenzo[def,mno]c...  | 19.22 | 21.0    | ng    | 478265   | 6                     | 17.41 | 454596 | 20.0 |