

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
 Data File : BF088901.D  
 Acq On : 11 Jul 2016 16:03  
 Operator : UM/SJ  
 Sample : H3948-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NC-03

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-BF063016.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         | 1.644       | 3             | 5           | 7            | rVB      | 930438         | 1325708       | 52.09%          | 3.765%        |
| 2         | 1.678       | 7             | 8           | 17           | rVB      | 182116         | 275536        | 10.83%          | 0.783%        |
| 3         | 1.793       | 17            | 18          | 26           | rBV      | 1296491        | 2545158       | 100.00%         | 7.228%        |
| 4         | 2.101       | 43            | 45          | 60           | rVB2     | 44000          | 117816        | 4.63%           | 0.335%        |
| 5         | 2.867       | 110           | 112         | 130          | rVB      | 17788          | 58297         | 2.29%           | 0.166%        |
| 6         | 4.867       | 284           | 287         | 291          | rVB      | 75889          | 113638        | 4.46%           | 0.323%        |
| 7         | 5.302       | 322           | 325         | 327          | rBV      | 1466915        | 1420661       | 55.82%          | 4.035%        |
| 8         | 6.353       | 414           | 417         | 419          | rVB      | 1477227        | 1466403       | 57.62%          | 4.165%        |
| 9         | 6.479       | 425           | 428         | 430          | rBV      | 1722367        | 1600741       | 62.89%          | 4.546%        |
| 10        | 6.707       | 446           | 448         | 451          | rBV      | 456699         | 403698        | 15.86%          | 1.147%        |
| 11        | 6.867       | 459           | 462         | 464          | rBV      | 1516978        | 1284001       | 50.45%          | 3.647%        |
| 12        | 7.279       | 495           | 498         | 500          | rBV      | 1052463        | 1106782       | 43.49%          | 3.143%        |
| 13        | 7.999       | 558           | 561         | 563          | rBV      | 501960         | 564129        | 22.16%          | 1.602%        |
| 14        | 8.433       | 597           | 599         | 603          | rVB      | 22698          | 31193         | 1.23%           | 0.089%        |
| 15        | 8.570       | 609           | 611         | 617          | rBV2     | 133823         | 239664        | 9.42%           | 0.681%        |
| 16        | 8.708       | 620           | 623         | 625          | rVB      | 50110          | 46096         | 1.81%           | 0.131%        |
| 17        | 8.810       | 629           | 632         | 634          | rVB2     | 23681          | 43640         | 1.71%           | 0.124%        |
| 18        | 9.073       | 653           | 655         | 657          | rVB      | 1995564        | 1674910       | 65.81%          | 4.757%        |
| 19        | 9.165       | 660           | 663         | 665          | rBV      | 51365          | 60951         | 2.39%           | 0.173%        |
| 20        | 9.336       | 675           | 678         | 680          | rBV      | 33124          | 55422         | 2.18%           | 0.157%        |
| 21        | 9.405       | 680           | 684         | 685          | rVV      | 47981          | 55258         | 2.17%           | 0.157%        |
| 22        | 9.473       | 688           | 690         | 692          | rVV      | 253382         | 332177        | 13.05%          | 0.943%        |
| 23        | 9.508       | 692           | 693         | 699          | rVB2     | 25955          | 49589         | 1.95%           | 0.141%        |
| 24        | 9.599       | 699           | 701         | 705          | rBV      | 39384          | 53204         | 2.09%           | 0.151%        |
| 25        | 9.691       | 708           | 709         | 711          | rVB      | 45642          | 35776         | 1.41%           | 0.102%        |
| 26        | 9.748       | 711           | 714         | 715          | rBV      | 498996         | 552532        | 21.71%          | 1.569%        |
| 27        | 9.771       | 715           | 716         | 718          | rVV      | 90669          | 99205         | 3.90%           | 0.282%        |
| 28        | 9.851       | 721           | 723         | 726          | rBV2     | 22023          | 36726         | 1.44%           | 0.104%        |
| 29        | 9.942       | 729           | 731         | 733          | rVB      | 57062          | 60948         | 2.39%           | 0.173%        |
| 30        | 10.159      | 745           | 750         | 751          | rBV3     | 12341          | 30089         | 1.18%           | 0.085%        |
| 31        | 10.193      | 751           | 753         | 754          | rVB      | 45403          | 39324         | 1.55%           | 0.112%        |
| 32        | 10.285      | 759           | 761         | 764          | rVB      | 123185         | 102310        | 4.02%           | 0.291%        |
| 33        | 10.353      | 764           | 767         | 770          | rBV2     | 19390          | 32335         | 1.27%           | 0.092%        |
| 34        | 10.411      | 770           | 772         | 774          | rVB3     | 30763          | 41140         | 1.62%           | 0.117%        |

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 BNA\_F  
 ClientSampleId :  
 NC-03

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-BF063016.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.445 | 774  | 775  | 778  | rVB2 | 30068   | 33711   | 1.32%  | 0.096% |
| 36 | 10.525 | 780  | 782  | 784  | rVV  | 864751  | 866288  | 34.04% | 2.460% |
| 37 | 10.662 | 792  | 794  | 798  | rBV  | 68497   | 106374  | 4.18%  | 0.302% |
| 38 | 10.833 | 806  | 809  | 810  | rBV  | 31886   | 35729   | 1.40%  | 0.101% |
| 39 | 10.948 | 818  | 819  | 821  | rBV2 | 20597   | 31510   | 1.24%  | 0.089% |
| 40 | 11.108 | 831  | 833  | 835  | rBV2 | 114718  | 123392  | 4.85%  | 0.350% |
| 41 | 11.222 | 840  | 843  | 844  | rBV  | 435422  | 540998  | 21.26% | 1.536% |
| 42 | 11.245 | 844  | 845  | 846  | rVV  | 672617  | 467867  | 18.38% | 1.329% |
| 43 | 11.291 | 846  | 849  | 851  | rVB  | 270325  | 252959  | 9.94%  | 0.718% |
| 44 | 11.325 | 851  | 852  | 854  | rBV2 | 24907   | 32845   | 1.29%  | 0.093% |
| 45 | 11.371 | 854  | 856  | 859  | rVB4 | 16551   | 29490   | 1.16%  | 0.084% |
| 46 | 11.451 | 861  | 863  | 865  | rBV  | 42663   | 33428   | 1.31%  | 0.095% |
| 47 | 11.531 | 867  | 870  | 873  | rVB2 | 80054   | 112303  | 4.41%  | 0.319% |
| 48 | 11.634 | 877  | 879  | 881  | rVB  | 29943   | 34412   | 1.35%  | 0.098% |
| 49 | 11.725 | 884  | 887  | 888  | rBV  | 60306   | 98987   | 3.89%  | 0.281% |
| 50 | 11.748 | 888  | 889  | 891  | rVB  | 133786  | 98348   | 3.86%  | 0.279% |
| 51 | 11.794 | 891  | 893  | 894  | rVB  | 64781   | 47408   | 1.86%  | 0.135% |
| 52 | 11.828 | 894  | 896  | 900  | rVB  | 202610  | 255458  | 10.04% | 0.726% |
| 53 | 11.908 | 901  | 903  | 905  | rBV3 | 28888   | 52383   | 2.06%  | 0.149% |
| 54 | 11.942 | 905  | 906  | 908  | rVB2 | 31135   | 34728   | 1.36%  | 0.099% |
| 55 | 12.011 | 908  | 912  | 918  | rBV3 | 69965   | 139852  | 5.49%  | 0.397% |
| 56 | 12.194 | 927  | 928  | 931  | rVB  | 42050   | 59657   | 2.34%  | 0.169% |
| 57 | 12.262 | 932  | 934  | 936  | rBV  | 63896   | 88718   | 3.49%  | 0.252% |
| 58 | 12.297 | 936  | 937  | 940  | rBV2 | 26388   | 58129   | 2.28%  | 0.165% |
| 59 | 12.354 | 940  | 942  | 946  | rVB4 | 29429   | 71027   | 2.79%  | 0.202% |
| 60 | 12.422 | 946  | 948  | 950  | rBV  | 747793  | 771293  | 30.30% | 2.191% |
| 61 | 12.479 | 950  | 953  | 955  | rBV2 | 88506   | 128012  | 5.03%  | 0.364% |
| 62 | 12.571 | 958  | 961  | 962  | rBV  | 40454   | 60655   | 2.38%  | 0.172% |
| 63 | 12.651 | 965  | 968  | 970  | rBV  | 806418  | 900457  | 35.38% | 2.557% |
| 64 | 12.697 | 970  | 972  | 977  | rVV  | 701974  | 1205718 | 47.37% | 3.424% |
| 65 | 12.799 | 979  | 981  | 984  | rVB  | 1010827 | 1153588 | 45.32% | 3.276% |
| 66 | 12.868 | 984  | 987  | 991  | rVB3 | 57045   | 111824  | 4.39%  | 0.318% |
| 67 | 12.982 | 993  | 997  | 999  | rVB  | 149647  | 205358  | 8.07%  | 0.583% |
| 68 | 13.051 | 999  | 1003 | 1004 | rBV  | 109365  | 159754  | 6.28%  | 0.454% |
| 69 | 13.085 | 1004 | 1006 | 1010 | rBV  | 97386   | 136265  | 5.35%  | 0.387% |
| 70 | 13.177 | 1012 | 1014 | 1015 | rVB  | 57227   | 62502   | 2.46%  | 0.178% |
| 71 | 13.199 | 1015 | 1016 | 1018 | rBV  | 69083   | 84988   | 3.34%  | 0.241% |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 NC-03

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 >  
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Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 13.394 | 1028 | 1033 | 1035 | rBV3 | 43967  | 133116  | 5.23%  | 0.378% |
| 73  | 13.588 | 1048 | 1050 | 1052 | rBV  | 92463  | 146483  | 5.76%  | 0.416% |
| 74  | 13.645 | 1052 | 1055 | 1058 | rVV3 | 77939  | 202159  | 7.94%  | 0.574% |
| 75  | 13.714 | 1058 | 1061 | 1064 | rVB3 | 97278  | 199016  | 7.82%  | 0.565% |
| 76  | 13.839 | 1069 | 1072 | 1074 | rBV2 | 623138 | 1008751 | 39.63% | 2.865% |
| 77  | 13.942 | 1079 | 1081 | 1083 | rVV2 | 109054 | 139407  | 5.48%  | 0.396% |
| 78  | 14.034 | 1087 | 1089 | 1090 | rVV  | 63638  | 76884   | 3.02%  | 0.218% |
| 79  | 14.091 | 1092 | 1094 | 1096 | rVB  | 257391 | 253031  | 9.94%  | 0.719% |
| 80  | 14.228 | 1104 | 1106 | 1108 | rBV  | 94942  | 108667  | 4.27%  | 0.309% |
| 81  | 14.342 | 1113 | 1116 | 1120 | rVV3 | 185848 | 309365  | 12.16% | 0.879% |
| 82  | 14.697 | 1145 | 1147 | 1149 | rVB2 | 71424  | 74275   | 2.92%  | 0.211% |
| 83  | 14.845 | 1157 | 1160 | 1166 | rBV  | 297522 | 671954  | 26.40% | 1.908% |
| 84  | 14.937 | 1166 | 1168 | 1171 | rVB  | 877993 | 905081  | 35.56% | 2.571% |
| 85  | 15.108 | 1181 | 1183 | 1185 | rVB  | 253374 | 276448  | 10.86% | 0.785% |
| 86  | 15.165 | 1185 | 1188 | 1190 | rBV  | 261251 | 339940  | 13.36% | 0.965% |
| 87  | 15.223 | 1190 | 1193 | 1194 | rBV  | 229557 | 277597  | 10.91% | 0.788% |
| 88  | 15.657 | 1228 | 1231 | 1234 | rBV  | 609513 | 951549  | 37.39% | 2.702% |
| 89  | 16.503 | 1302 | 1305 | 1308 | rBV2 | 114343 | 218629  | 8.59%  | 0.621% |
| 90  | 16.617 | 1312 | 1315 | 1318 | rVV  | 79590  | 157662  | 6.19%  | 0.448% |
| 91  | 16.891 | 1336 | 1339 | 1343 | rVB  | 89851  | 202897  | 7.97%  | 0.576% |
| 92  | 16.983 | 1343 | 1347 | 1349 | rBV  | 109994 | 263354  | 10.35% | 0.748% |
| 93  | 17.040 | 1349 | 1352 | 1353 | rBV  | 172127 | 358895  | 14.10% | 1.019% |
| 94  | 17.223 | 1366 | 1368 | 1371 | rVB3 | 97146  | 180706  | 7.10%  | 0.513% |
| 95  | 17.303 | 1372 | 1375 | 1379 | rVV  | 96254  | 237330  | 9.32%  | 0.674% |
| 96  | 17.463 | 1383 | 1389 | 1392 | rVV2 | 310954 | 1135047 | 44.60% | 3.224% |
| 97  | 17.520 | 1392 | 1394 | 1399 | rVB3 | 145139 | 319546  | 12.56% | 0.908% |
| 98  | 17.737 | 1409 | 1413 | 1421 | rBV3 | 215214 | 841148  | 33.05% | 2.389% |
| 99  | 17.863 | 1421 | 1424 | 1427 | rVV  | 71485  | 147245  | 5.79%  | 0.418% |
| 100 | 18.846 | 1505 | 1510 | 1520 | rVB4 | 113010 | 432544  | 16.99% | 1.228% |

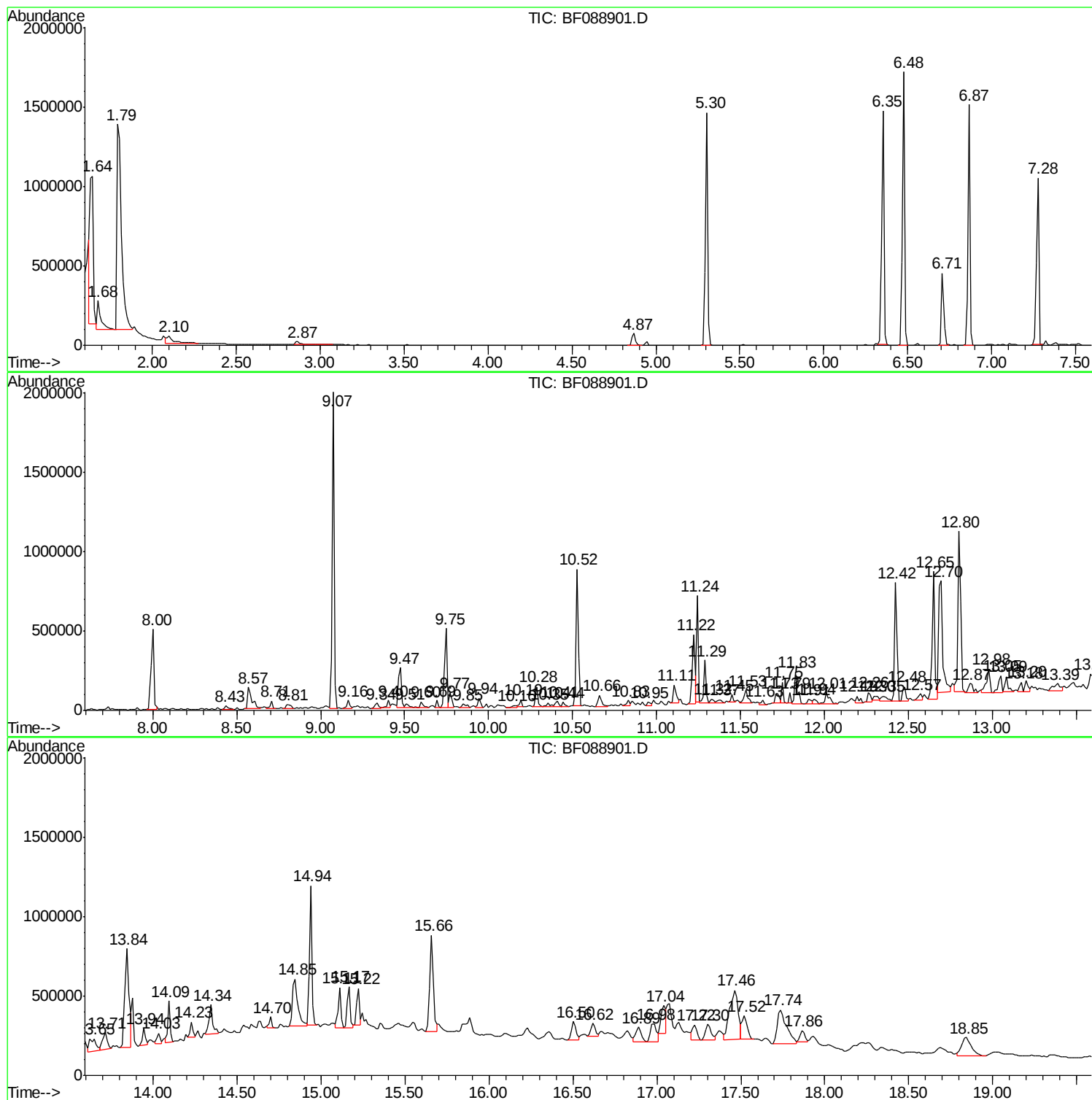
Sum of corrected areas: 35210198

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
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Instrument :  
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NC-03

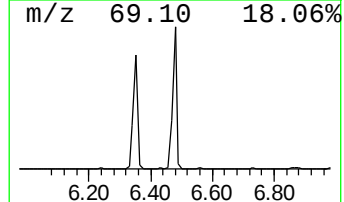
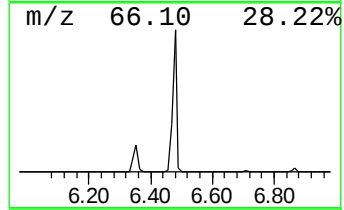
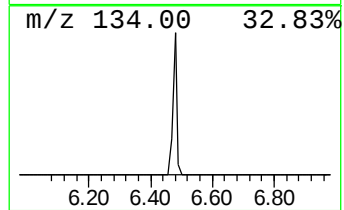
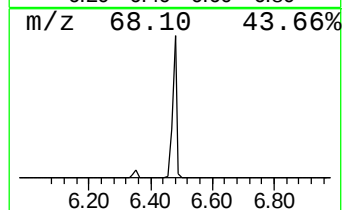
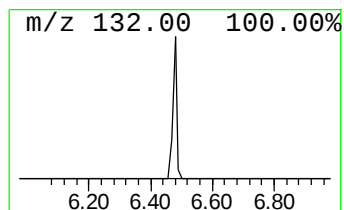
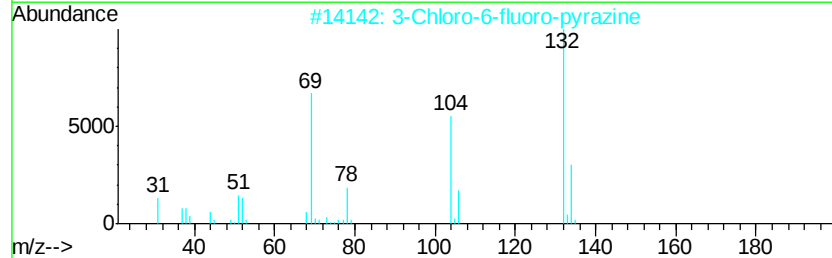
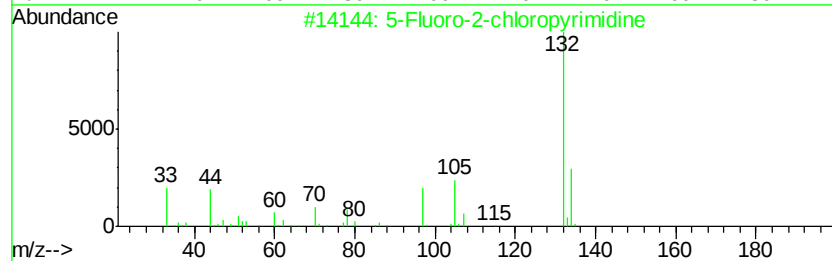
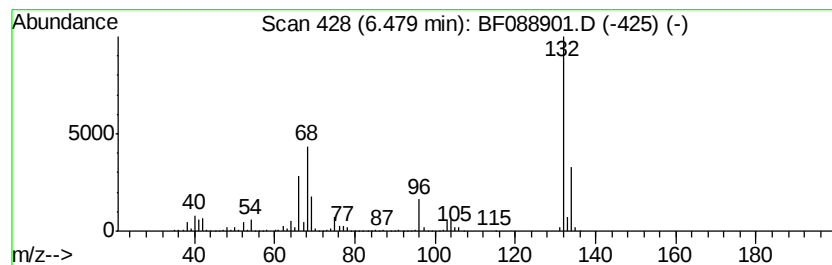
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown6.48 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.48 | 79.30 ng | 1600740 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# | of                                  | Tentative ID | MW        | MolForm      | CAS# | Qual |
|------|-------------------------------------|--------------|-----------|--------------|------|------|
| 1    | 5-Fluoro-2-chloropyrimidine         | 132          | C4H2ClFN2 | 062802-42-0  | 27   |      |
| 2    | 3-Chloro-6-fluoro-pyrazine          | 132          | C4H2ClFN2 | 1000146-10-7 | 16   |      |
| 3    | Tranvlcypramine-propionyl           | 189          | C12H15NO  | 1000123-86-3 | 10   |      |
| 4    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132          | C10H12    | 028749-81-7  | 9    |      |
| 5    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132          | C3H4N2S2  | 029490-19-5  | 9    |      |



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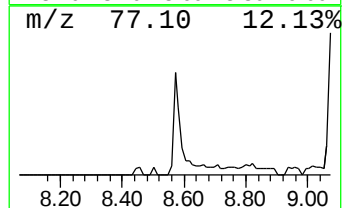
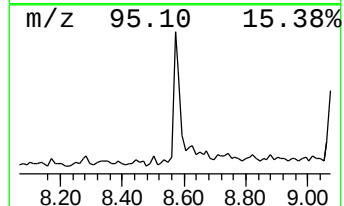
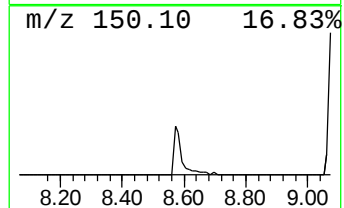
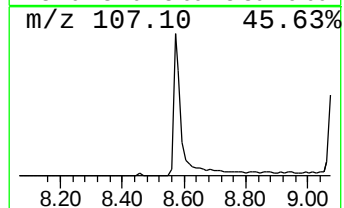
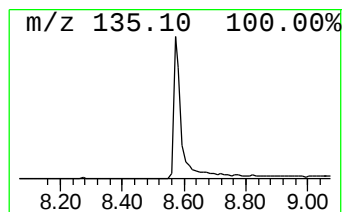
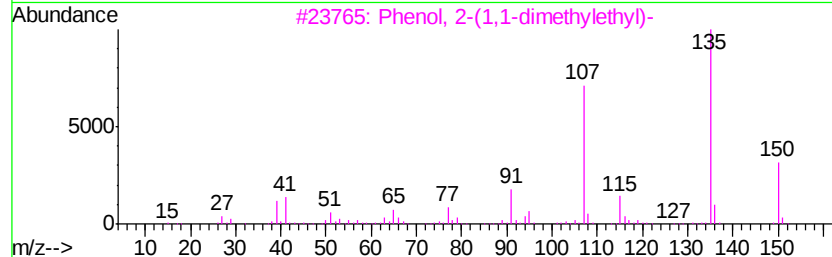
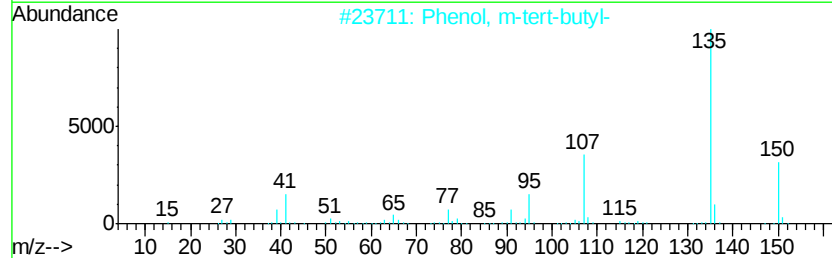
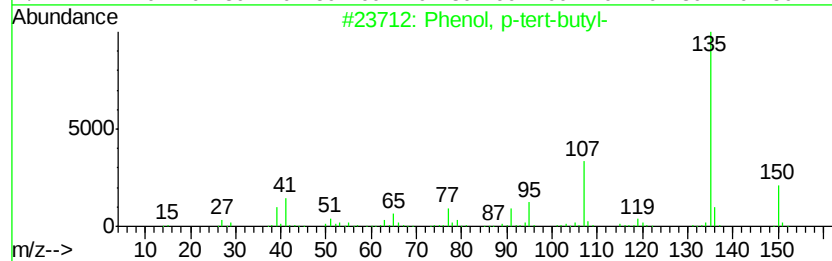
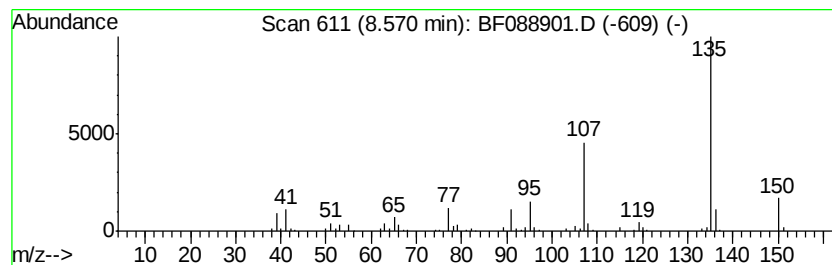
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Phenol, p-tert-butyl- Concentration Rank 20

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.57 | 8.50 ng | 239664 | Napthalene-d8    | 8.00 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenol, p-tert-butyl-             | 150 | C10H14O | 000098-54-4 | 95   |
| 2    |    | Phenol, m-tert-butyl-             | 150 | C10H14O | 000585-34-2 | 87   |
| 3    |    | Phenol, 2-(1,1-dimethylethyl)-    | 150 | C10H14O | 000088-18-6 | 58   |
| 4    |    | Thymol                            | 150 | C10H14O | 000089-83-8 | 50   |
| 5    |    | 1-(4-Hydroxymethylphenyl)ethanone | 150 | C9H10O2 | 075633-63-5 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

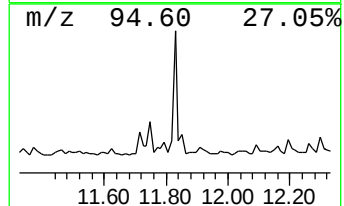
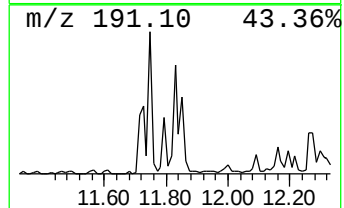
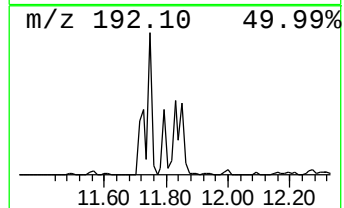
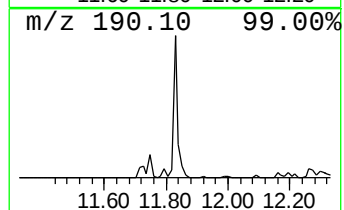
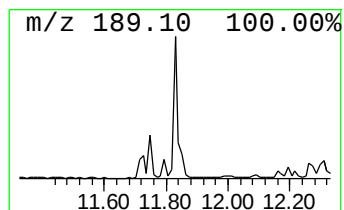
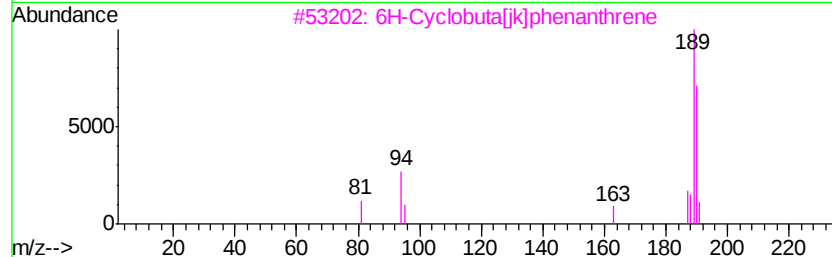
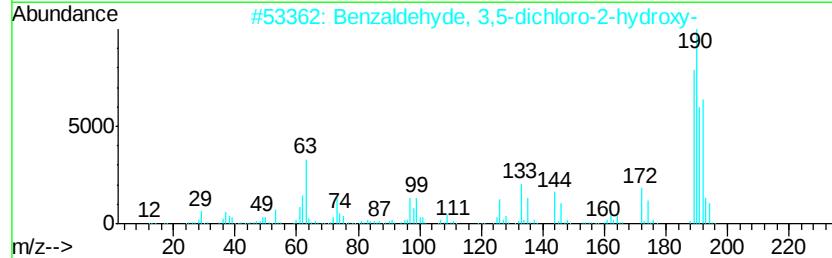
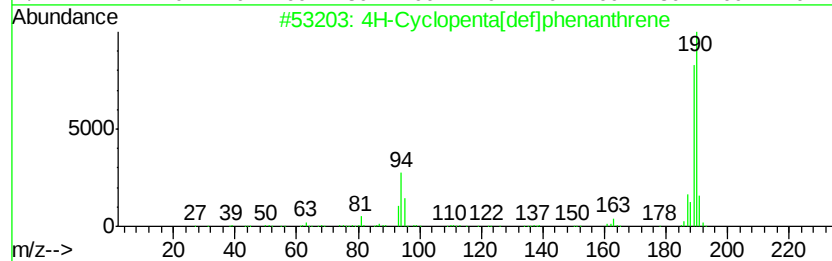
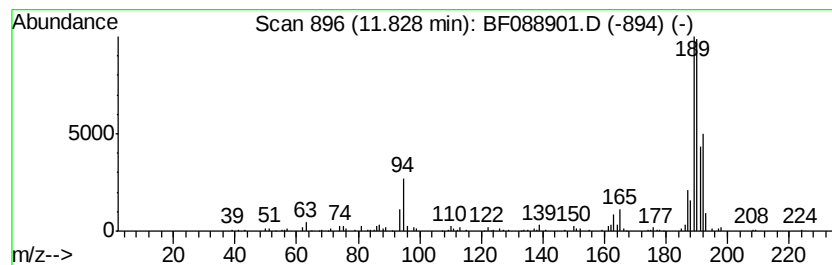
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NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 19

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.      |             |      |
|---------|---------|-------------------------------------|------------------|-----------|-------------|------|
| 11.83   | 9.44 ng | 255458                              | Phenanthrene-d10 | 11.22     |             |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm   | CAS#        | Qual |
| 1       |         | 4H-Cyclopenta[def]phenanthrene      | 190              | C15H10    | 000203-64-5 | 70   |
| 2       |         | Benzaldehyde, 3,5-dichloro-2-hyd... | 190              | C7H4Cl2O2 | 000090-60-8 | 50   |
| 3       |         | 6H-Cyclobuta[ikl]phenanthrene       | 190              | C15H10    | 083469-43-6 | 40   |
| 4       |         | 2,2'-Bis(4,5-dimethylimidazole)     | 190              | C10H14N4  | 069286-06-2 | 37   |
| 5       |         | 1,1'-Biphenyl, 4,4'-difluoro-       | 190              | C12H8F2   | 000398-23-2 | 17   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

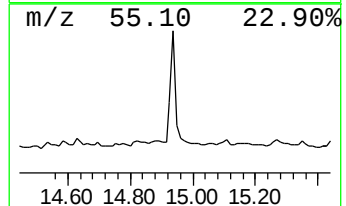
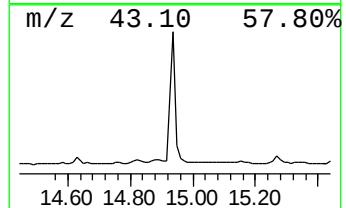
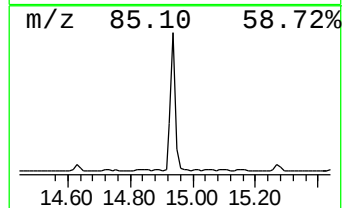
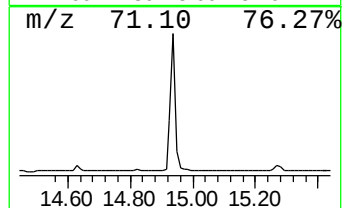
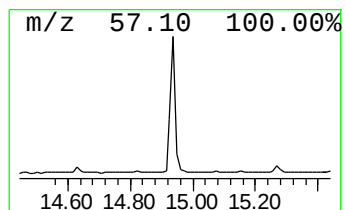
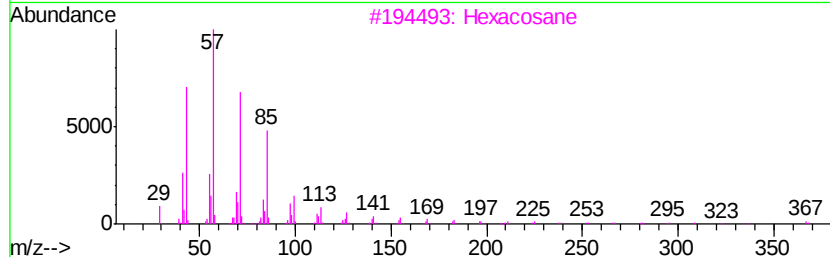
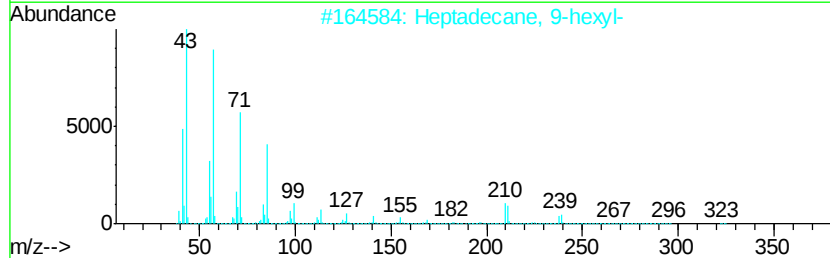
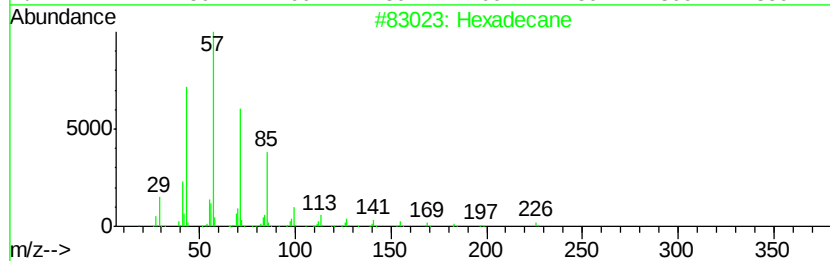
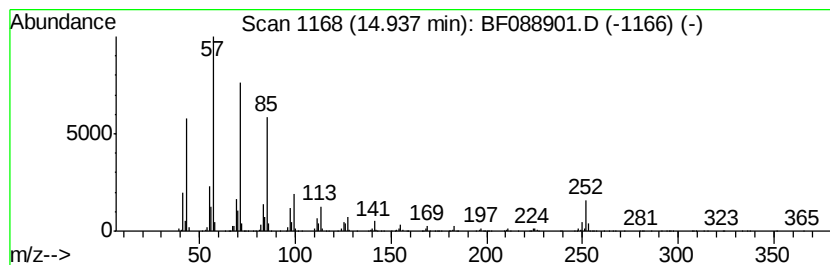
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexadecane Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.94 | 65.21 ng | 905081 | Perylene-d12     | 15.22 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane            |              | 226 | C16H34  | 000544-76-3 | 90   |
| 2       | Heptadecane, 9-hexyl- |              | 324 | C23H48  | 055124-79-3 | 87   |
| 3       | Hexacosane            |              | 366 | C26H54  | 000630-01-3 | 87   |
| 4       | Heptadecane           |              | 240 | C17H36  | 000629-78-7 | 87   |
| 5       | Heneicosane           |              | 296 | C21H44  | 000629-94-7 | 87   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

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

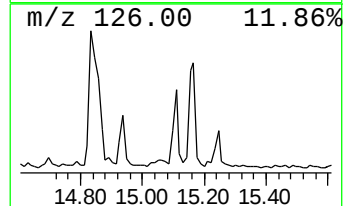
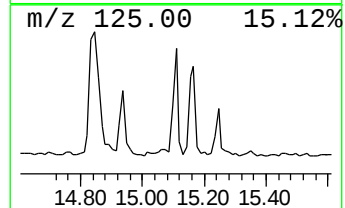
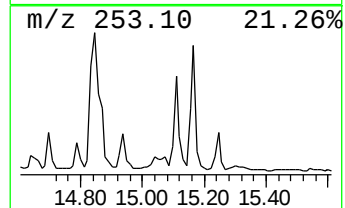
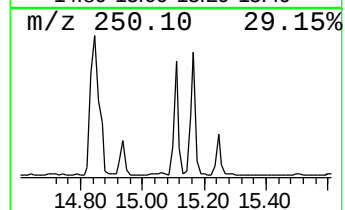
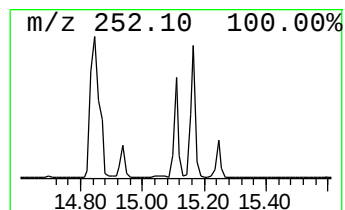
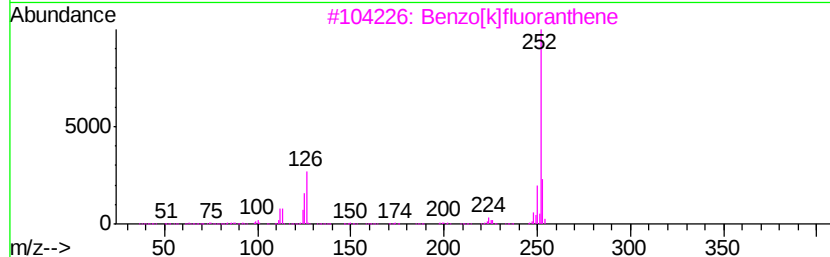
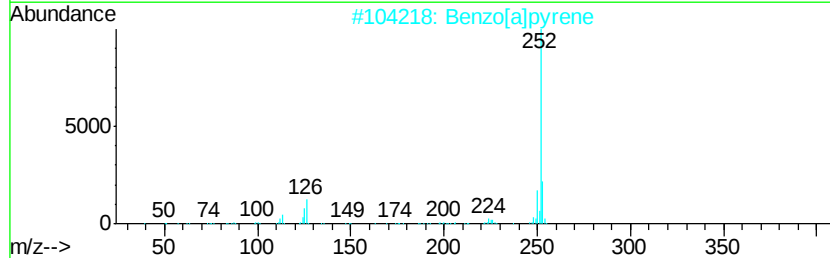
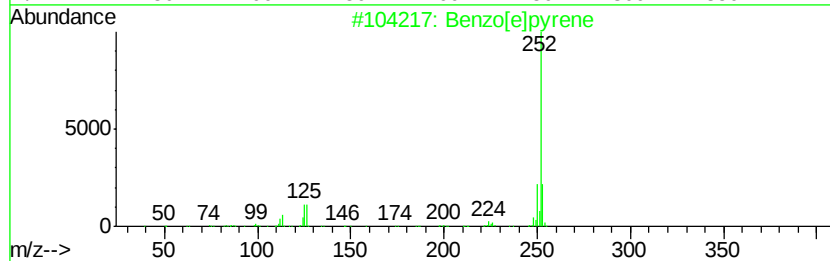
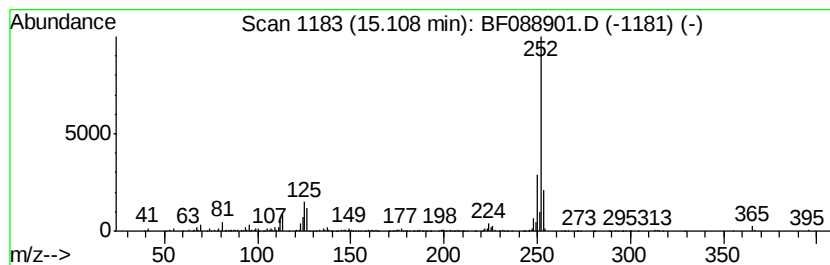
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzo[e]pyrene Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.11 | 19.92 ng | 276448 | Perylene-d12     | 15.22 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 96   |
| 2       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 93   |
| 3       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 93   |
| 4       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |
| 5       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 89   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

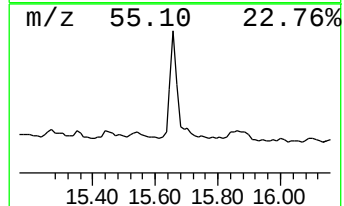
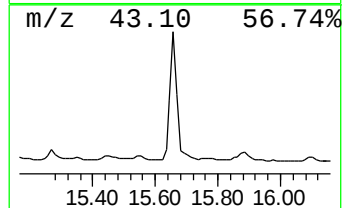
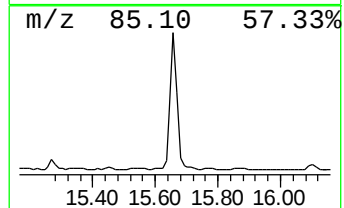
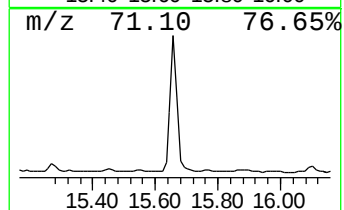
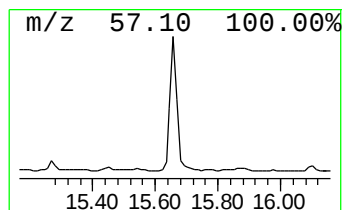
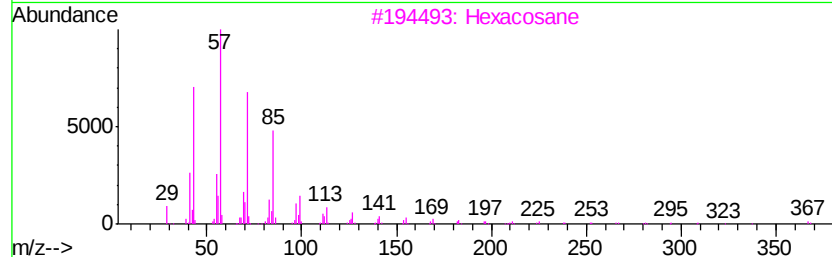
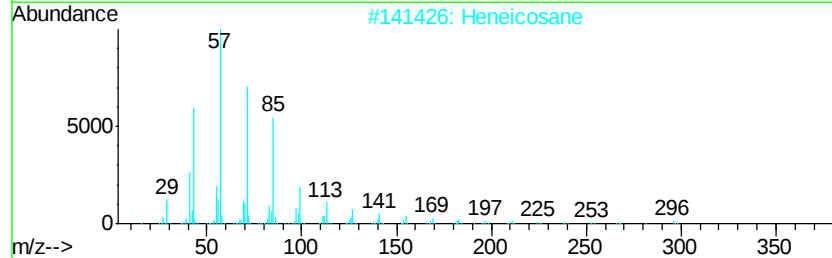
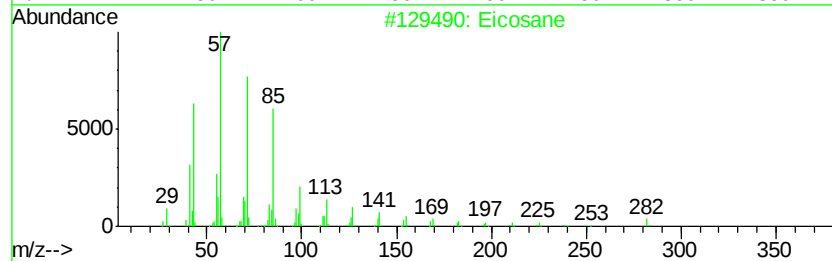
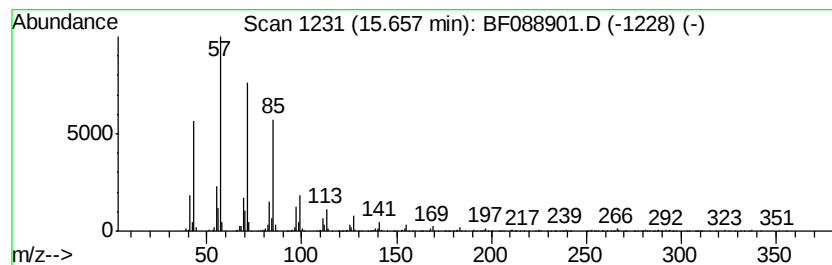
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Eicosane Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.66 | 68.56 ng | 951549 | Perylene-d12     | 15.22 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane           |              | 282 | C20H42  | 000112-95-8 | 94   |
| 2       | Heneicosane        |              | 296 | C21H44  | 000629-94-7 | 91   |
| 3       | Hexacosane         |              | 366 | C26H54  | 000630-01-3 | 91   |
| 4       | Tridecane, 1-iodo- |              | 310 | C13H27I | 035599-77-0 | 90   |
| 5       | Heptacosane        |              | 380 | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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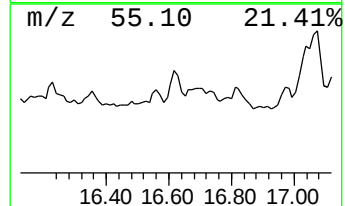
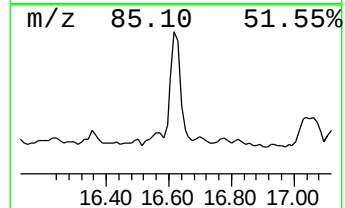
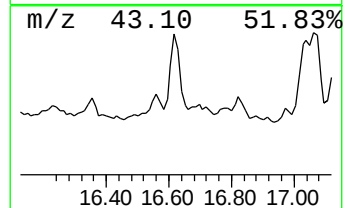
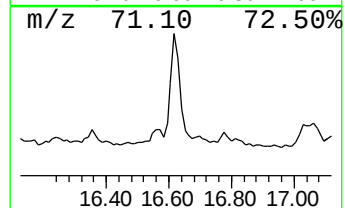
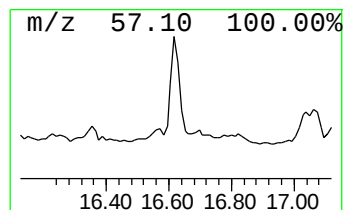
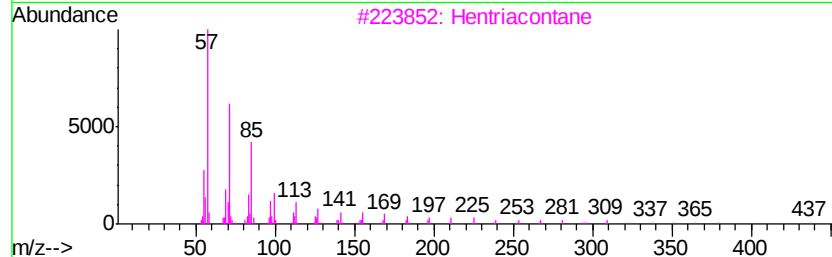
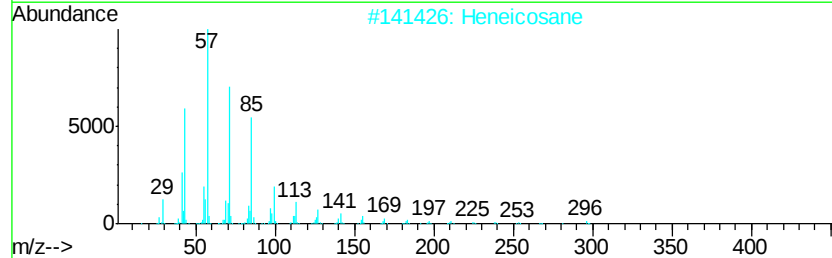
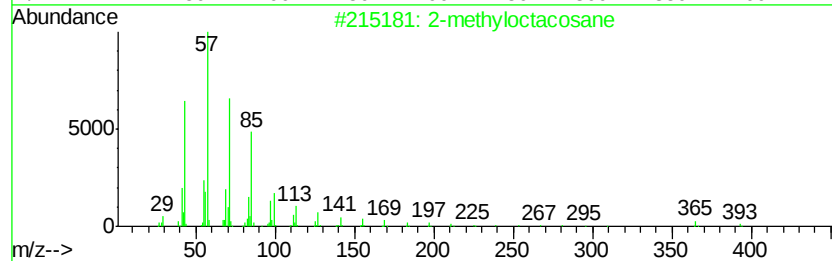
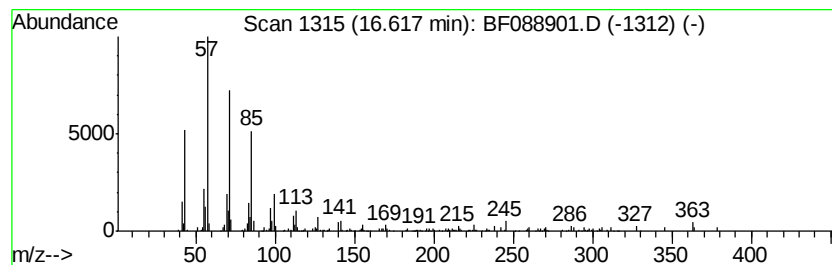
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 2-methyloctacosane Concentration Rank 17

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.62 | 11.36 ng | 157662 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 90   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 90   |
| 3    |    | Hentriacontane     | 437 | C31H64  | 000630-04-6  | 87   |
| 4    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 87   |
| 5    |    | Tetracosane        | 338 | C24H50  | 000646-31-1  | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
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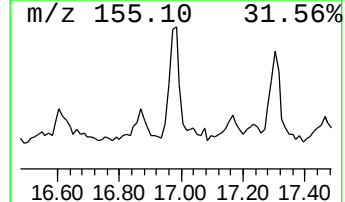
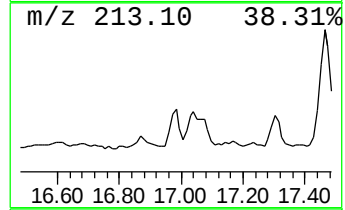
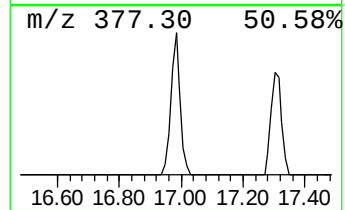
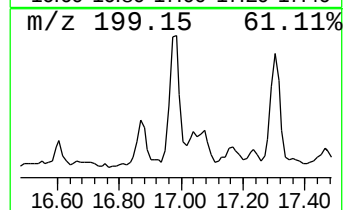
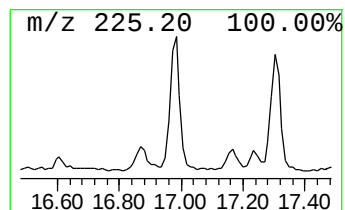
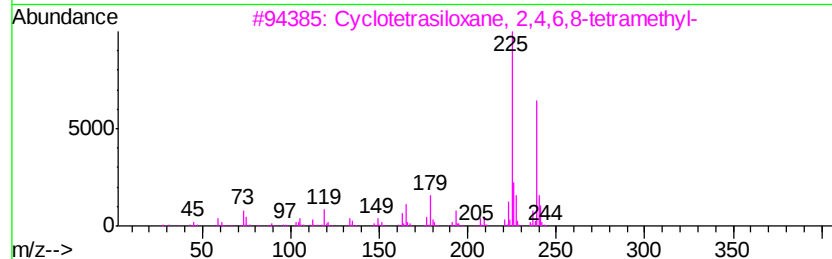
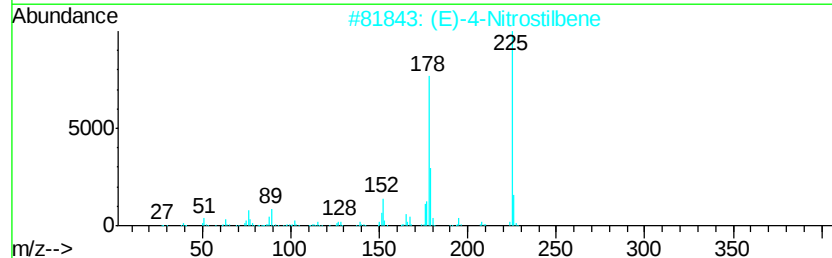
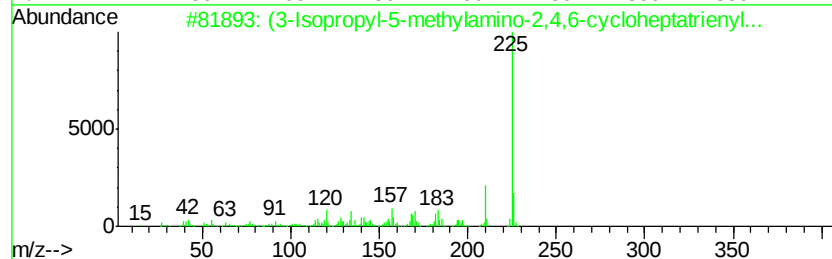
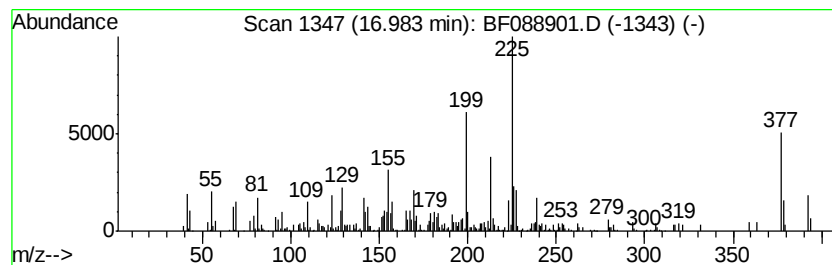
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown16.98 Concentration Rank 13

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.98 | 18.97 ng | 263354 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | (3-Isopropyl-5-methylamino-2,4,6... | 225 | C14H15N3   | 014204-00-3 | 35   |
| 2    |    | (E)-4-Nitrostilbene                 | 225 | C14H11N02  | 001694-20-8 | 25   |
| 3    |    | Cyclotetrasiloxane, 2,4,6,8-tetr... | 240 | C4H16O4Si4 | 002370-88-9 | 25   |
| 4    |    | 4-Amino-8-methoxybenzo[a]-1,5-na... | 225 | C13H11N3O  | 026660-50-4 | 25   |
| 5    |    | Drometrizole                        | 225 | C13H11N3O  | 002440-22-4 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

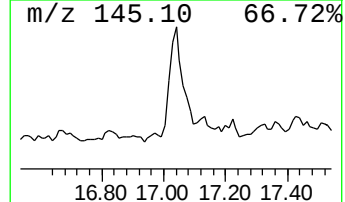
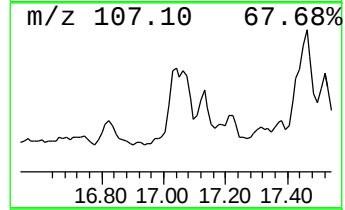
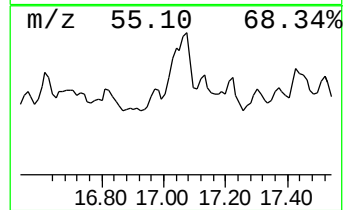
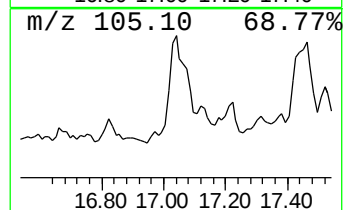
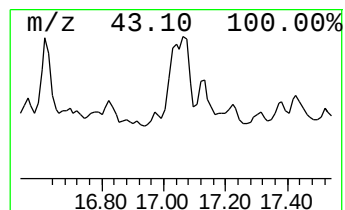
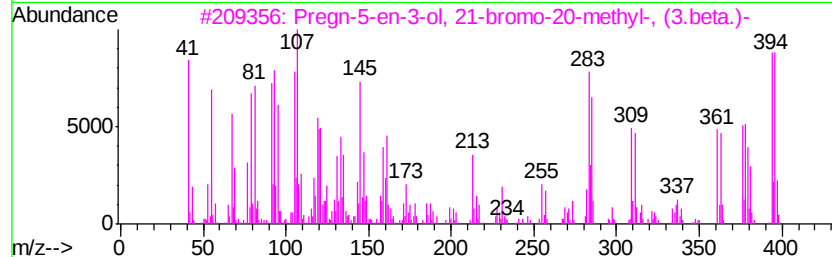
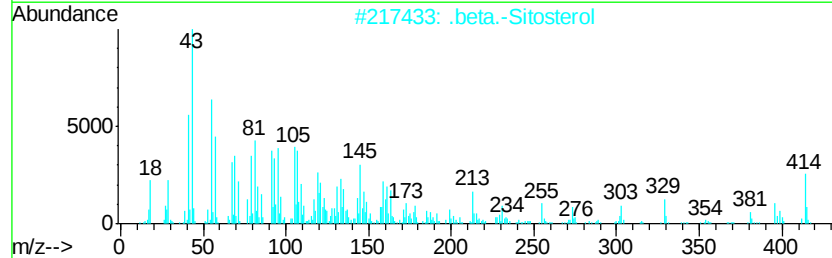
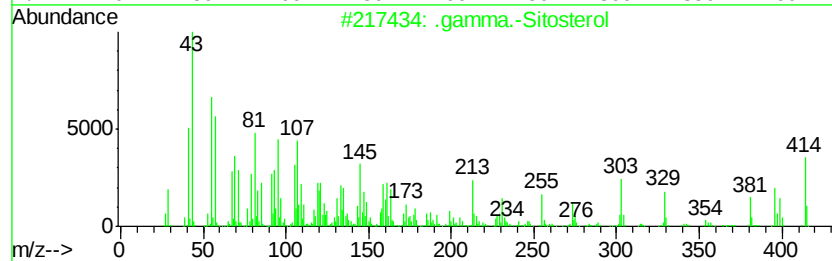
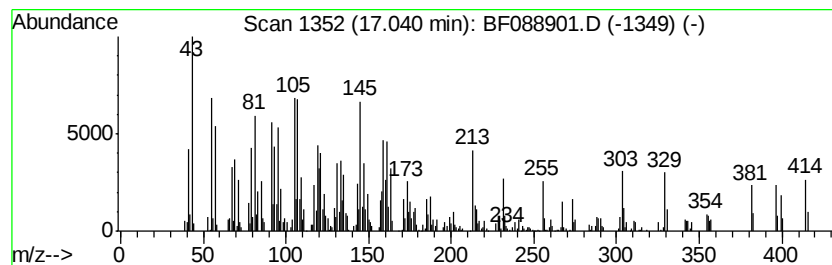
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 .gamma.-Sitosterol Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.04 | 25.86 ng | 358895 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | .gamma.-Sitosterol                  | 414 | C29H50O   | 000083-47-6  | 99   |
| 2    |    | .beta.-Sitosterol                   | 414 | C29H50O   | 000083-46-5  | 97   |
| 3    |    | Pregn-5-en-3-ol, 21-bromo-20-met... | 394 | C22H35BrO | 055103-80-5  | 14   |
| 4    |    | Ergost-7-en-3-ol, (3.beta.)-        | 400 | C28H48O   | 026047-31-4  | 12   |
| 5    |    | Stigmastan-3-en-6-ol                | 414 | C29H50O   | 1000214-19-7 | 11   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

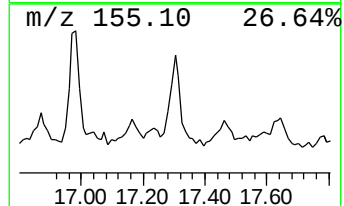
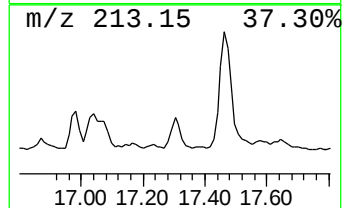
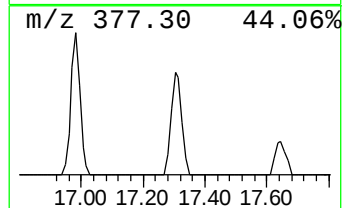
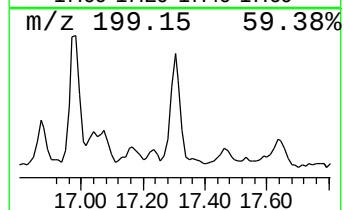
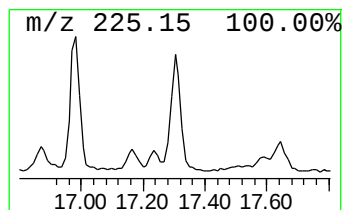
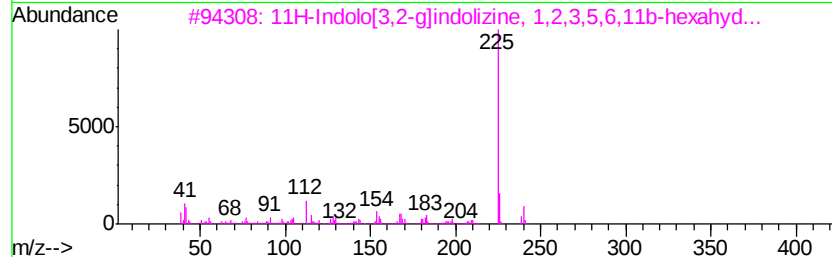
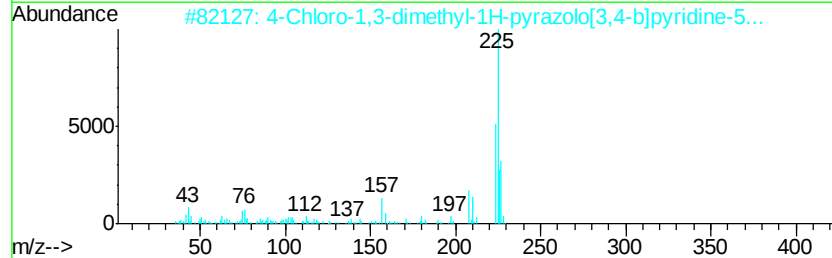
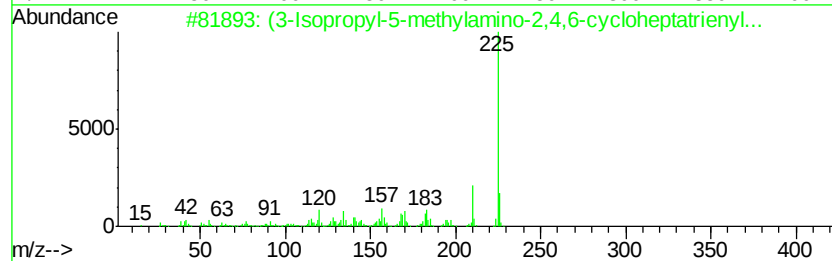
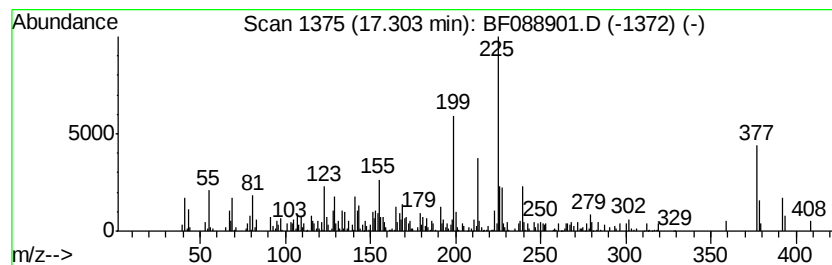
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (3-Isopropyl-5-methylamino-... Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.30 | 17.10 ng | 237330 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | (3-Isopropyl-5-methylamino-2,4,6... | 225 | C14H15N3   | 014204-00-3  | 52   |
| 2    |    | 4-Chloro-1,3-dimethyl-1H-pyrazol... | 225 | C9H8ClN3O2 | 1000293-90-4 | 35   |
| 3    |    | 11H-Indolo[3,2-a]indolizine, 1,2... | 240 | C16H20N2   | 1000264-72-5 | 30   |
| 4    |    | 4-Amino-8-methoxybenzo[a]-1,5-na... | 225 | C13H11N3O  | 026660-50-4  | 27   |
| 5    |    | Methyl 4-(1,2,3,4,6,7,12,12b-oct... | 326 | C20H26N2O2 | 1000137-91-3 | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

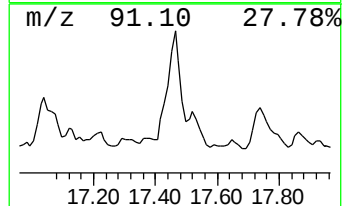
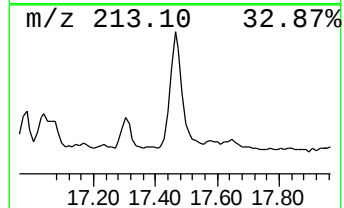
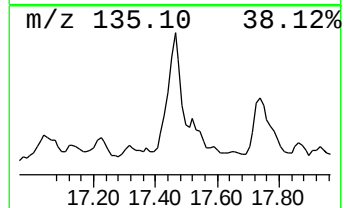
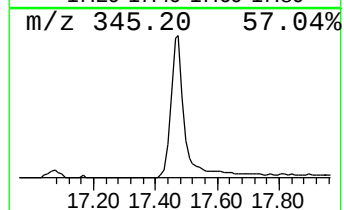
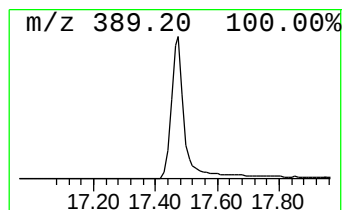
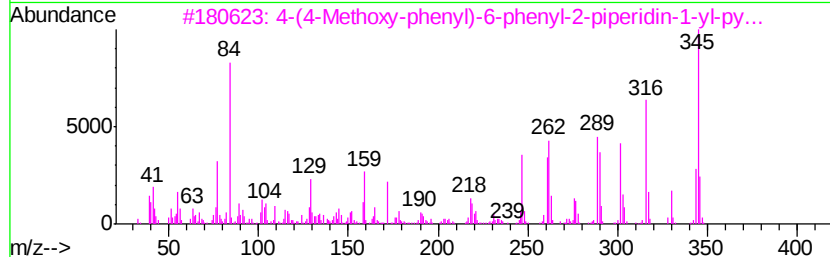
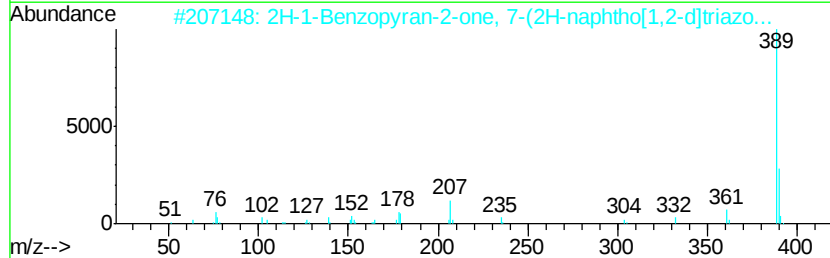
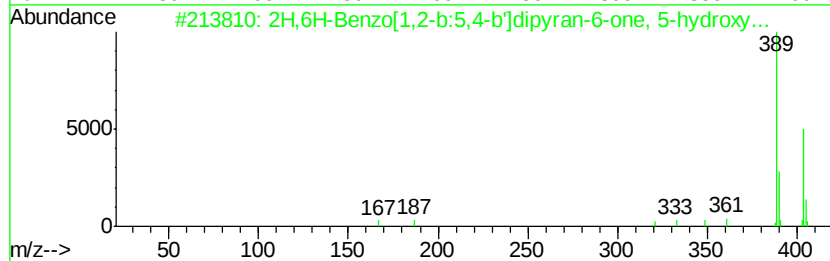
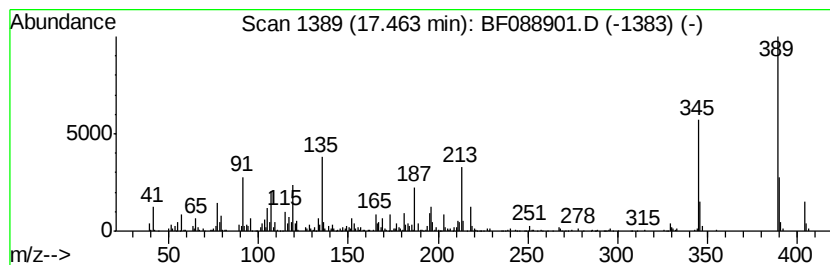
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown17.46 Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 17.46 | 81.78 ng | 1135050 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2H,6H-Benzo[1,2-b:5,4-b']dipyran... | 404 | C25H24O5   | 004449-55-2  | 37   |
| 2    |    | 2H-1-Benzopyran-2-one, 7-(2H-nap... | 389 | C25H15N3O2 | 003333-62-8  | 27   |
| 3    |    | 4-(4-Methoxy-phenyl)-6-phenyl-2-... | 345 | C22H23N3O  | 1000294-75-8 | 25   |
| 4    |    | 3,4-Dihydroisoquinolin-7-ol, 6-m... | 389 | C24H23NO4  | 113332-62-0  | 12   |
| 5    |    | (2-Methoxy-1,3,2-thiozin)[5,10,9... | 389 | C21H27NO4S | 101635-66-9  | 12   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

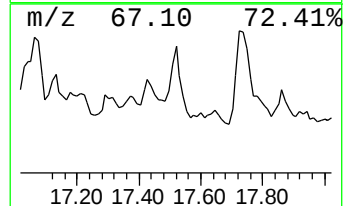
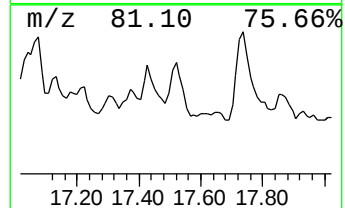
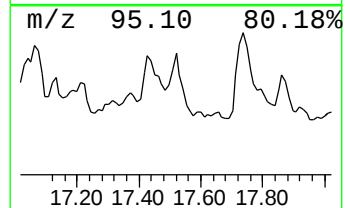
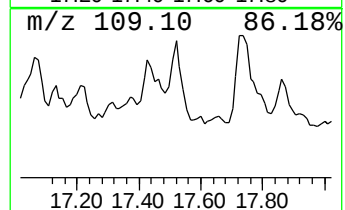
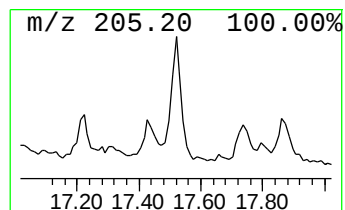
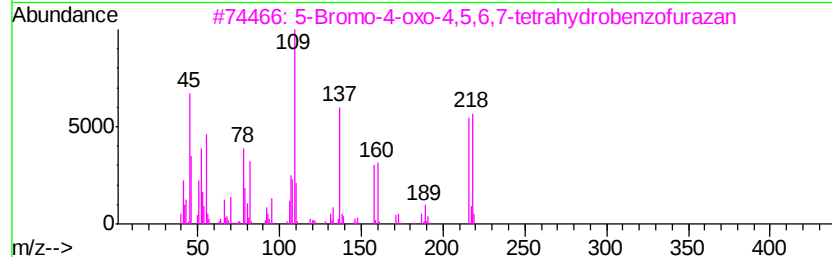
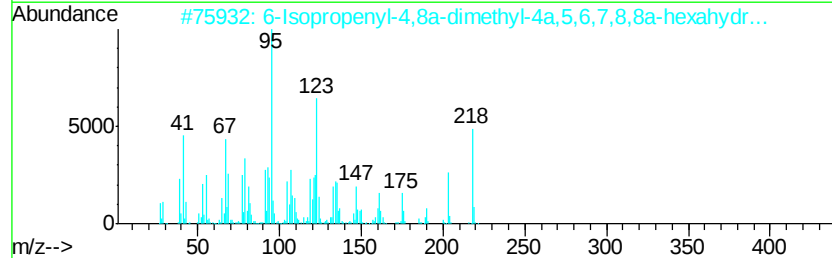
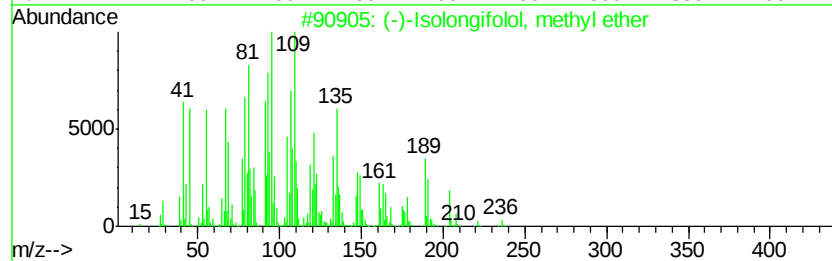
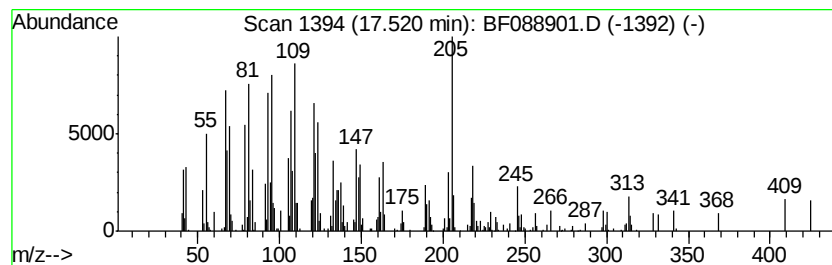
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown17.52 Concentration Rank 11

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.52 | 23.02 ng | 319546 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | (-)-Isolongifolol, methyl ether     | 236 | C16H28O    | 1000333-80-8 | 38   |
| 2    |    | 6-Isopropenyl-4,8a-dimethyl-4a,5... | 218 | C15H22O    | 086917-79-5  | 38   |
| 3    |    | 5-Bromo-4-oxo-4,5,6,7-tetrahydro... | 216 | C6H5BrN2O2 | 300574-36-1  | 38   |
| 4    |    | 2,2,6-Trimethyl-1-(2-methyl-cycl... | 218 | C15H22O    | 1000188-72-8 | 30   |
| 5    |    | Cyclohexane-1-methanol, 3,3-dime... | 208 | C14H24O    | 1000196-01-5 | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

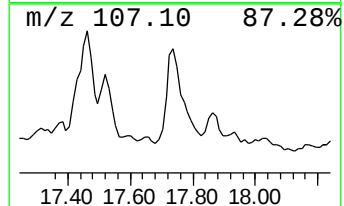
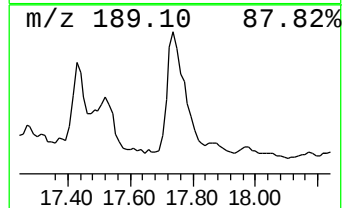
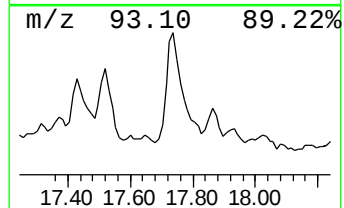
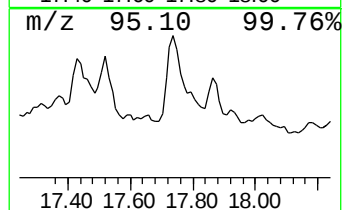
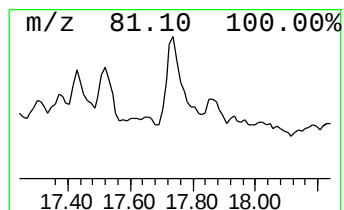
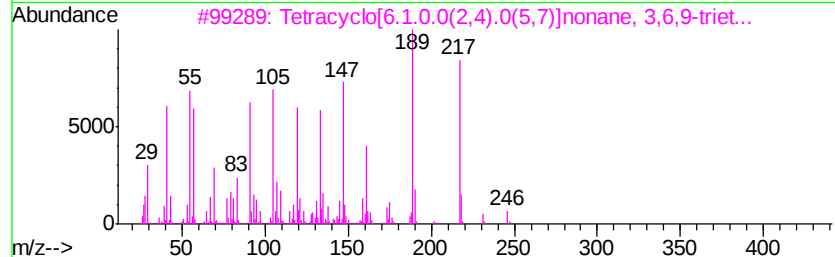
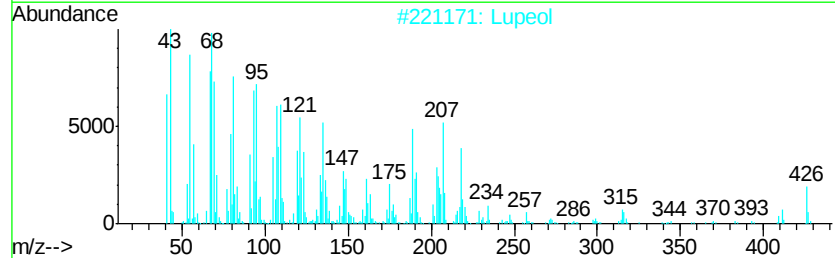
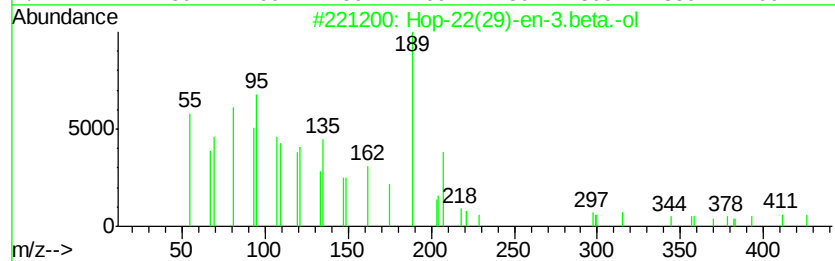
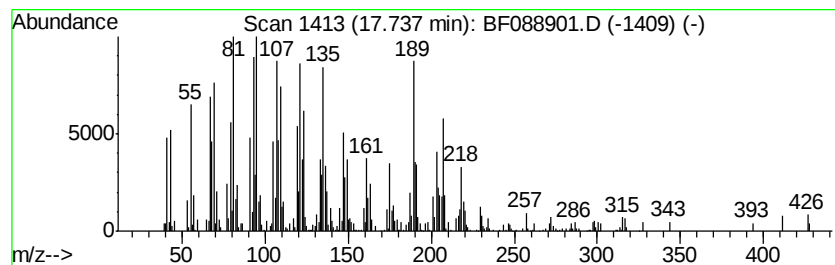
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Hop-22(29)-en-3.beta.-ol Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.74 | 60.60 ng | 841148 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Hop-22(29)-en-3.beta.-ol            | 426 | C30H500 | 058801-23-3  | 91   |
| 2    |    | Lupeol                              | 426 | C30H500 | 000545-47-1  | 49   |
| 3    |    | Tetracyclo[6.1.0.0(2,4).0(5,7)]n... | 246 | C18H30  | 078578-97-9  | 46   |
| 4    |    | Guaia-9,11-diene                    | 204 | C15H24  | 1000374-19-8 | 45   |
| 5    |    | 6-epi-shyobunol                     | 222 | C15H260 | 1000374-18-3 | 44   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

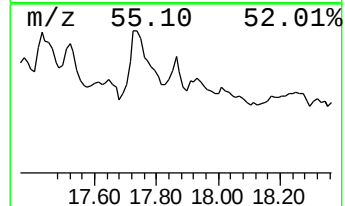
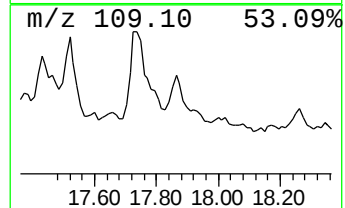
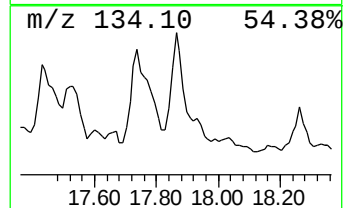
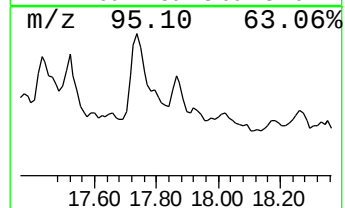
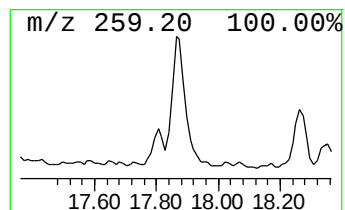
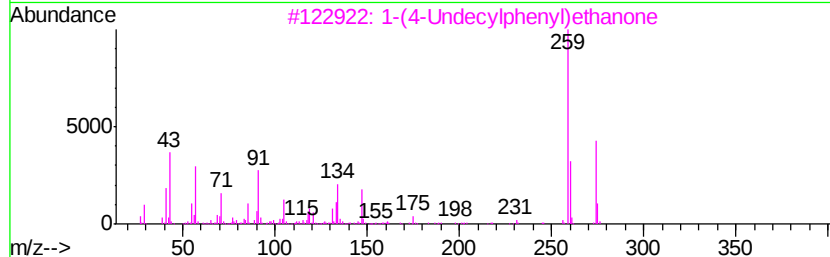
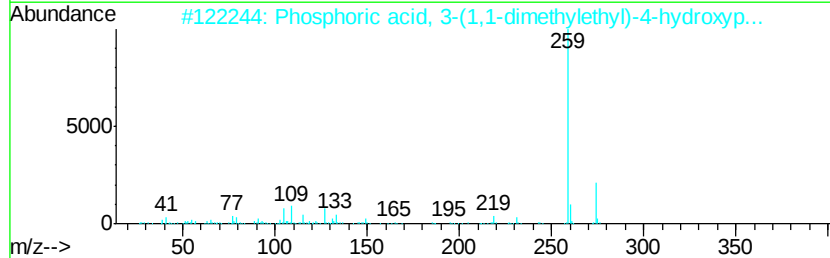
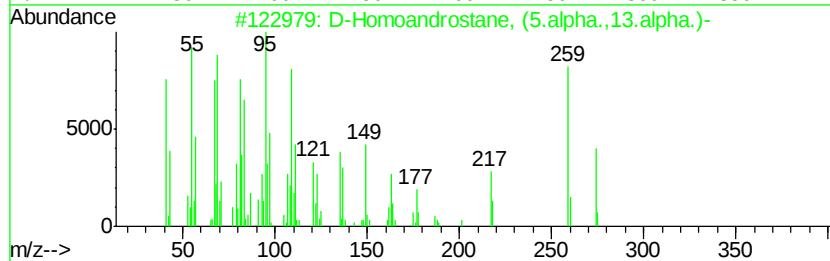
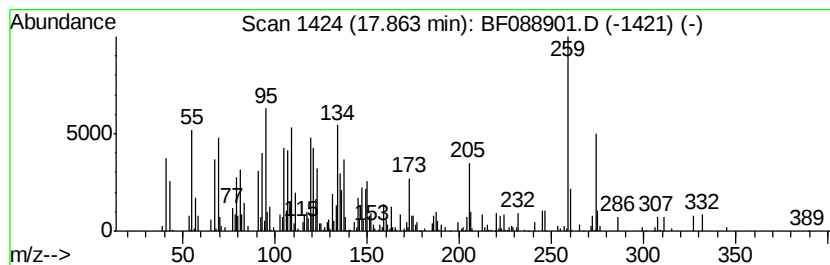
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown17.86 Concentration Rank 18

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.86 | 10.61 ng | 147245 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | D-Homoandrostane, (5.alpha.,13.a... | 274 | C20H34      | 054482-31-4  | 49   |
| 2    |    | Phosphoric acid, 3-(1,1-dimethyl... | 274 | C12H19O5P   | 094420-61-8  | 43   |
| 3    |    | 1-(4-Undecylphenyl)ethanone         | 274 | C19H30O     | 1000185-92-4 | 38   |
| 4    |    | Bi-1-cyclohexen-1-yl, 3,3,3',3',... | 274 | C20H34      | 076993-52-7  | 35   |
| 5    |    | 1,3-DIETHYL-2-HYDROXYBENZOTHAZO...  | 274 | C14H14N2O2S | 1000227-15-3 | 30   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071116\  
Data File : BF088901.D  
Acq On : 11 Jul 2016 16:03  
Operator : UM/SJ  
Sample : H3948-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NC-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

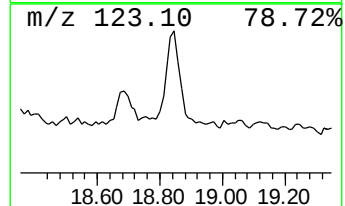
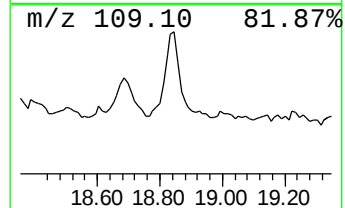
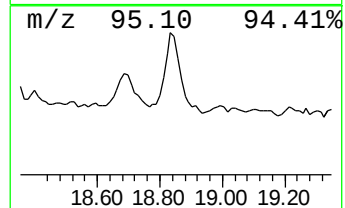
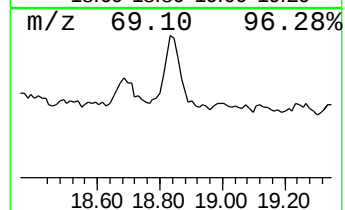
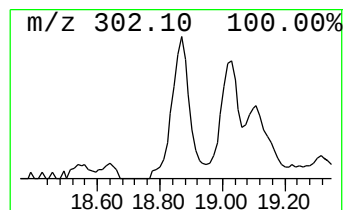
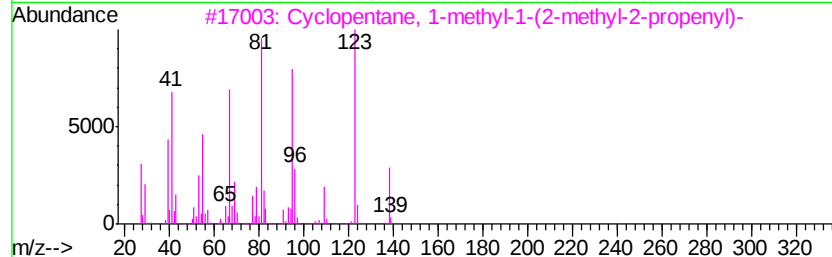
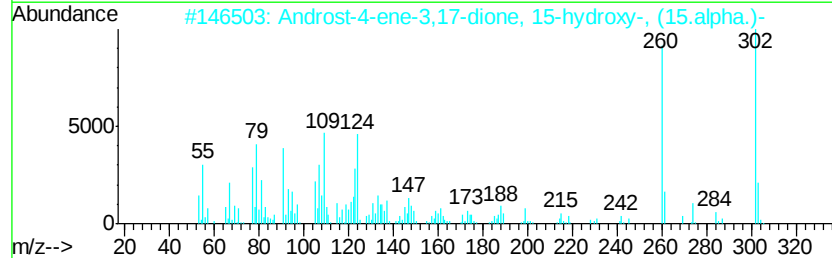
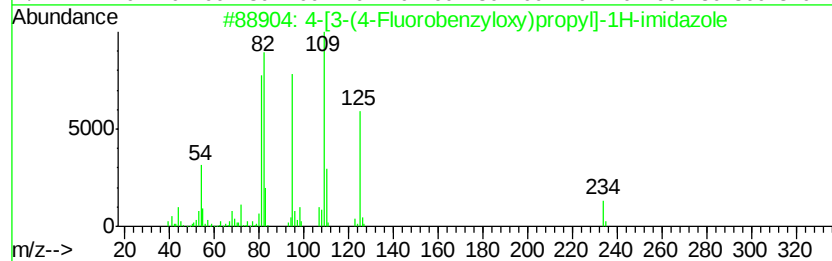
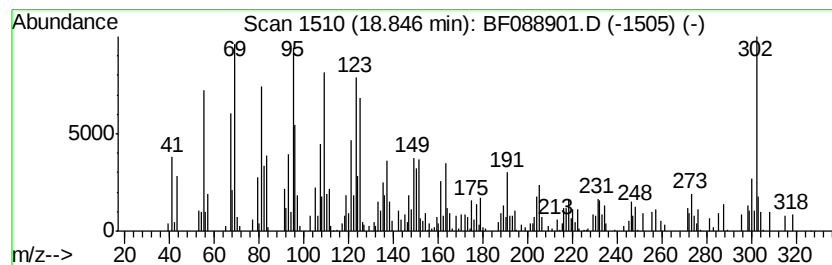
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown18.85 Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.85 | 31.16 ng | 432544 | Perylene-d12     | 15.22 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4-[3-(4-Fluorobenzoyloxy)propyl]-... | 234 | C13H15FN2O | 1000311-87-2 | 45   |
| 2    |    | Androst-4-ene-3,17-dione, 15-hyd...  | 302 | C19H26O3   | 000566-08-5  | 42   |
| 3    |    | Cyclopentane, 1-methyl-1-(2-meth...  | 138 | C10H18     | 074764-47-9  | 38   |
| 4    |    | Bicyclo[2.2.1]heptane, 2,2,3-tri...  | 138 | C10H18     | 020536-40-7  | 35   |
| 5    |    | 2-Cyclohexene-1-methanol, 2,6,6-...  | 154 | C10H18O    | 006627-74-3  | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071116\  
 Data File : BF088901.D  
 Acq On : 11 Jul 2016 16:03  
 Operator : UM/SJ  
 Sample : H3948-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NC-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown6.48          | 6.48  | 79.3    | ng    | 1600740  | 1                     | 6.71  | 403698 | 20.0 |
| Phenol, p-tert-bu... | 8.57  | 8.5     | ng    | 239664   | 2                     | 8.00  | 564129 | 20.0 |
| 4H-Cyclopenta[def... | 11.83 | 9.4     | ng    | 255458   | 4                     | 11.22 | 540998 | 20.0 |
| Hexadecane           | 14.94 | 65.2    | ng    | 905081   | 6                     | 15.22 | 277597 | 20.0 |
| Benzo[e]pyrene       | 15.11 | 19.9    | ng    | 276448   | 6                     | 15.22 | 277597 | 20.0 |
| Eicosane             | 15.66 | 68.6    | ng    | 951549   | 6                     | 15.22 | 277597 | 20.0 |
| 2-methyloctacosane   | 16.62 | 11.4    | ng    | 157662   | 6                     | 15.22 | 277597 | 20.0 |
| unknown16.98         | 16.98 | 19.0    | ng    | 263354   | 6                     | 15.22 | 277597 | 20.0 |
| .gamma.-Sitosterol   | 17.04 | 25.9    | ng    | 358895   | 6                     | 15.22 | 277597 | 20.0 |
| 2H-1-Benzopyran-2... | 17.22 | 13.0    | ng    | 180706   | 6                     | 15.22 | 277597 | 20.0 |
| (3-Isopropyl-5-me... | 17.30 | 17.1    | ng    | 237330   | 6                     | 15.22 | 277597 | 20.0 |
| unknown17.46         | 17.46 | 81.8    | ng    | 1135050  | 6                     | 15.22 | 277597 | 20.0 |
| unknown17.52         | 17.52 | 23.0    | ng    | 319546   | 6                     | 15.22 | 277597 | 20.0 |
| Hop-22(29)-en-3.b... | 17.74 | 60.6    | ng    | 841148   | 6                     | 15.22 | 277597 | 20.0 |
| unknown17.86         | 17.86 | 10.6    | ng    | 147245   | 6                     | 15.22 | 277597 | 20.0 |
| unknown18.85         | 18.85 | 31.2    | ng    | 432544   | 6                     | 15.22 | 277597 | 20.0 |