

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
 Data File : BF083286.D  
 Acq On : 25 Nov 2015 21:20  
 Operator : UM/IZ  
 Sample : G4567-02 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STOCKPILE-COMPOSITE2

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-BF112115.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         | 4.684       | 234           | 236         | 247          | rBV      | 423492         | 703004        | 9.90%           | 0.565%        |
| 2         | 5.176       | 277           | 279         | 288          | rBV      | 817905         | 1194095       | 16.81%          | 0.960%        |
| 3         | 5.370       | 293           | 296         | 303          | rBV2     | 275299         | 384241        | 5.41%           | 0.309%        |
| 4         | 6.250       | 370           | 373         | 380          | rBV      | 1259630        | 1331547       | 18.75%          | 1.070%        |
| 5         | 6.353       | 380           | 382         | 385          | rVV      | 1149598        | 1250242       | 17.60%          | 1.005%        |
| 6         | 6.421       | 385           | 388         | 390          | rVV2     | 406656         | 497215        | 7.00%           | 0.400%        |
| 7         | 6.581       | 400           | 402         | 405          | rVV      | 1031513        | 1018845       | 14.35%          | 0.819%        |
| 8         | 6.741       | 414           | 416         | 417          | rVV      | 1079318        | 940310        | 13.24%          | 0.756%        |
| 9         | 7.153       | 450           | 452         | 456          | rVB      | 912734         | 879816        | 12.39%          | 0.707%        |
| 10        | 7.873       | 513           | 515         | 520          | rBV2     | 1459341        | 2360803       | 33.24%          | 1.897%        |
| 11        | 8.319       | 552           | 554         | 558          | rBV3     | 278779         | 493301        | 6.95%           | 0.396%        |
| 12        | 8.387       | 558           | 560         | 563          | rBV4     | 154989         | 418566        | 5.89%           | 0.336%        |
| 13        | 8.524       | 567           | 572         | 575          | rBV3     | 228964         | 503997        | 7.10%           | 0.405%        |
| 14        | 8.593       | 575           | 578         | 579          | rBV2     | 581025         | 692310        | 9.75%           | 0.556%        |
| 15        | 8.685       | 584           | 586         | 590          | rVB      | 485615         | 466626        | 6.57%           | 0.375%        |
| 16        | 8.925       | 605           | 607         | 608          | rVV      | 293680         | 376316        | 5.30%           | 0.302%        |
| 17        | 8.959       | 608           | 610         | 612          | rVB      | 1213972        | 1225040       | 17.25%          | 0.984%        |
| 18        | 9.050       | 612           | 618         | 621          | rBV5     | 272947         | 690049        | 9.72%           | 0.555%        |
| 19        | 9.153       | 625           | 627         | 630          | rVV      | 317776         | 577711        | 8.13%           | 0.464%        |
| 20        | 9.210       | 630           | 632         | 634          | rVV      | 338990         | 527605        | 7.43%           | 0.424%        |
| 21        | 9.245       | 634           | 635         | 637          | rVV2     | 254925         | 389420        | 5.48%           | 0.313%        |
| 22        | 9.290       | 637           | 639         | 640          | rVV      | 466814         | 586736        | 8.26%           | 0.472%        |
| 23        | 9.359       | 642           | 645         | 647          | rVV3     | 814088         | 1677079       | 23.61%          | 1.348%        |
| 24        | 9.405       | 647           | 649         | 654          | rVV      | 488840         | 724035        | 10.20%          | 0.582%        |
| 25        | 9.485       | 654           | 656         | 659          | rVV      | 2174485        | 2038279       | 28.70%          | 1.638%        |
| 26        | 9.622       | 666           | 668         | 670          | rVV      | 1525407        | 1734384       | 24.42%          | 1.394%        |
| 27        | 9.656       | 670           | 671         | 673          | rVV      | 772924         | 715331        | 10.07%          | 0.575%        |
| 28        | 9.736       | 675           | 678         | 680          | rVV      | 442576         | 675911        | 9.52%           | 0.543%        |
| 29        | 9.782       | 680           | 682         | 684          | rVV2     | 187106         | 452827        | 6.38%           | 0.364%        |
| 30        | 9.828       | 684           | 686         | 688          | rVV3     | 459507         | 851891        | 12.00%          | 0.685%        |
| 31        | 9.873       | 688           | 690         | 691          | rVV      | 641811         | 620040        | 8.73%           | 0.498%        |
| 32        | 9.942       | 694           | 696         | 699          | rVV      | 947915         | 1401241       | 19.73%          | 1.126%        |
| 33        | 10.033      | 702           | 704         | 706          | rBV3     | 414546         | 794823        | 11.19%          | 0.639%        |
| 34        | 10.079      | 706           | 708         | 710          | rVV      | 598526         | 661289        | 9.31%           | 0.531%        |

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

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |         |         |        |
|----|--------|-----|-----|-----|------|---------|---------|---------|--------|
| 35 | 10.125 | 710 | 712 | 715 | rVV2 | 636232  | 1158002 | 16.31%  | 0.931% |
| 36 | 10.170 | 715 | 716 | 719 | rVV2 | 383519  | 762184  | 10.73%  | 0.612% |
| 37 | 10.239 | 719 | 722 | 723 | rVV2 | 1359977 | 2421171 | 34.09%  | 1.946% |
| 38 | 10.285 | 723 | 726 | 729 | rVV3 | 1298776 | 2380961 | 33.53%  | 1.913% |
| 39 | 10.342 | 729 | 731 | 733 | rVV3 | 543478  | 755438  | 10.64%  | 0.607% |
| 40 | 10.410 | 735 | 737 | 739 | rVB2 | 922202  | 981581  | 13.82%  | 0.789% |
| 41 | 10.536 | 746 | 748 | 749 | rBV  | 657395  | 761081  | 10.72%  | 0.612% |
| 42 | 10.616 | 753 | 755 | 756 | rBV  | 456963  | 417422  | 5.88%   | 0.335% |
| 43 | 10.719 | 762 | 764 | 765 | rBV  | 430650  | 627247  | 8.83%   | 0.504% |
| 44 | 10.776 | 768 | 769 | 773 | rVB4 | 551589  | 999727  | 14.08%  | 0.803% |
| 45 | 10.868 | 773 | 777 | 780 | rBV4 | 499134  | 1077733 | 15.18%  | 0.866% |
| 46 | 11.028 | 789 | 791 | 794 | rVB2 | 542783  | 701569  | 9.88%   | 0.564% |
| 47 | 11.096 | 795 | 797 | 798 | rBV  | 1104887 | 1005702 | 14.16%  | 0.808% |
| 48 | 11.176 | 802 | 804 | 805 | rVB  | 1082880 | 1010156 | 14.22%  | 0.812% |
| 49 | 11.222 | 805 | 808 | 809 | rBV  | 394009  | 642495  | 9.05%   | 0.516% |
| 50 | 11.371 | 819 | 821 | 824 | rVB2 | 296732  | 493530  | 6.95%   | 0.397% |
| 51 | 11.428 | 824 | 826 | 828 | rVB  | 457697  | 476076  | 6.70%   | 0.383% |
| 52 | 11.599 | 840 | 841 | 842 | rBV  | 613943  | 686898  | 9.67%   | 0.552% |
| 53 | 11.633 | 842 | 844 | 845 | rVV  | 651779  | 804471  | 11.33%  | 0.646% |
| 54 | 11.679 | 846 | 848 | 849 | rVV  | 1048443 | 900308  | 12.68%  | 0.723% |
| 55 | 11.713 | 849 | 851 | 856 | rVB  | 3168398 | 4080515 | 57.46%  | 3.279% |
| 56 | 11.839 | 860 | 862 | 864 | rBV2 | 289587  | 432806  | 6.09%   | 0.348% |
| 57 | 11.896 | 864 | 867 | 868 | rVV3 | 410327  | 762722  | 10.74%  | 0.613% |
| 58 | 11.919 | 868 | 869 | 872 | rVB  | 409133  | 599503  | 8.44%   | 0.482% |
| 59 | 12.045 | 877 | 880 | 881 | rBV2 | 429689  | 828509  | 11.67%  | 0.666% |
| 60 | 12.102 | 881 | 885 | 887 | rVB3 | 603175  | 1227515 | 17.28%  | 0.986% |
| 61 | 12.148 | 887 | 889 | 891 | rBV  | 1536912 | 2380381 | 33.52%  | 1.913% |
| 62 | 12.193 | 891 | 893 | 895 | rVV  | 1212888 | 2205934 | 31.06%  | 1.773% |
| 63 | 12.239 | 895 | 897 | 901 | rVV3 | 1040702 | 1956022 | 27.54%  | 1.572% |
| 64 | 12.308 | 901 | 903 | 906 | rVV  | 3379788 | 3715180 | 52.31%  | 2.986% |
| 65 | 12.399 | 910 | 911 | 913 | rVV  | 1307518 | 1223745 | 17.23%  | 0.983% |
| 66 | 12.479 | 914 | 918 | 921 | rVV3 | 649099  | 1214032 | 17.09%  | 0.976% |
| 67 | 12.536 | 921 | 923 | 927 | rVV  | 4914584 | 7101836 | 100.00% | 5.707% |
| 68 | 12.605 | 927 | 929 | 930 | rVB  | 427123  | 492434  | 6.93%   | 0.396% |
| 69 | 12.685 | 934 | 936 | 940 | rVB2 | 1117784 | 1681983 | 23.68%  | 1.352% |
| 70 | 12.754 | 940 | 942 | 946 | rBV2 | 1173065 | 1779445 | 25.06%  | 1.430% |
| 71 | 12.868 | 948 | 952 | 954 | rVB  | 1623580 | 3321243 | 46.77%  | 2.669% |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STOCKPILE-COMPOSITE2

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 12.925 | 954  | 957  | 959  | rBV  | 978738  | 1785707 | 25.14% | 1.435% |
| 73  | 12.971 | 959  | 961  | 964  | rVV  | 1594583 | 1893290 | 26.66% | 1.521% |
| 74  | 13.062 | 964  | 969  | 970  | rVV  | 1395188 | 2166327 | 30.50% | 1.741% |
| 75  | 13.085 | 970  | 971  | 973  | rVV  | 1439587 | 1492032 | 21.01% | 1.199% |
| 76  | 13.268 | 985  | 987  | 992  | rBV3 | 438048  | 1016919 | 14.32% | 0.817% |
| 77  | 13.348 | 992  | 994  | 1000 | rVV3 | 491584  | 1330992 | 18.74% | 1.070% |
| 78  | 13.474 | 1002 | 1005 | 1006 | rVV2 | 651463  | 1051548 | 14.81% | 0.845% |
| 79  | 13.508 | 1006 | 1008 | 1013 | rVB3 | 602989  | 1349792 | 19.01% | 1.085% |
| 80  | 13.725 | 1024 | 1027 | 1028 | rBV2 | 2849655 | 4755366 | 66.96% | 3.821% |
| 81  | 13.759 | 1028 | 1030 | 1033 | rVV  | 2272135 | 3184569 | 44.84% | 2.559% |
| 82  | 13.828 | 1033 | 1036 | 1037 | rVV2 | 330426  | 527041  | 7.42%  | 0.424% |
| 83  | 13.874 | 1038 | 1040 | 1045 | rVB3 | 443729  | 836300  | 11.78% | 0.672% |
| 84  | 14.079 | 1056 | 1058 | 1059 | rBV  | 334252  | 380603  | 5.36%  | 0.306% |
| 85  | 14.114 | 1059 | 1061 | 1063 | rVV  | 1416589 | 1737886 | 24.47% | 1.397% |
| 86  | 14.148 | 1063 | 1064 | 1066 | rVV  | 752774  | 607728  | 8.56%  | 0.488% |
| 87  | 14.205 | 1066 | 1069 | 1070 | rVV2 | 658475  | 931527  | 13.12% | 0.749% |
| 88  | 14.239 | 1070 | 1072 | 1075 | rVB4 | 688870  | 1448033 | 20.39% | 1.164% |
| 89  | 14.434 | 1087 | 1089 | 1092 | rVB3 | 234336  | 436187  | 6.14%  | 0.351% |
| 90  | 14.719 | 1111 | 1114 | 1120 | rVB  | 1679176 | 3240104 | 45.62% | 2.604% |
| 91  | 14.811 | 1120 | 1122 | 1124 | rBV  | 758424  | 801383  | 11.28% | 0.644% |
| 92  | 14.971 | 1134 | 1136 | 1139 | rVB  | 1057457 | 1471596 | 20.72% | 1.183% |
| 93  | 15.028 | 1139 | 1141 | 1144 | rBV2 | 1979663 | 2918295 | 41.09% | 2.345% |
| 94  | 15.085 | 1144 | 1146 | 1147 | rBV  | 780823  | 905423  | 12.75% | 0.728% |
| 95  | 15.554 | 1185 | 1187 | 1189 | rVB  | 341641  | 434511  | 6.12%  | 0.349% |
| 96  | 16.022 | 1226 | 1228 | 1235 | rVB3 | 202904  | 521056  | 7.34%  | 0.419% |
| 97  | 16.308 | 1250 | 1253 | 1257 | rVB  | 745312  | 1322101 | 18.62% | 1.062% |
| 98  | 16.457 | 1263 | 1266 | 1268 | rBV  | 175649  | 379830  | 5.35%  | 0.305% |
| 99  | 16.674 | 1282 | 1285 | 1292 | rVB  | 571395  | 1174134 | 16.53% | 0.944% |
| 100 | 18.526 | 1443 | 1447 | 1454 | rVB2 | 124074  | 415713  | 5.85%  | 0.334% |

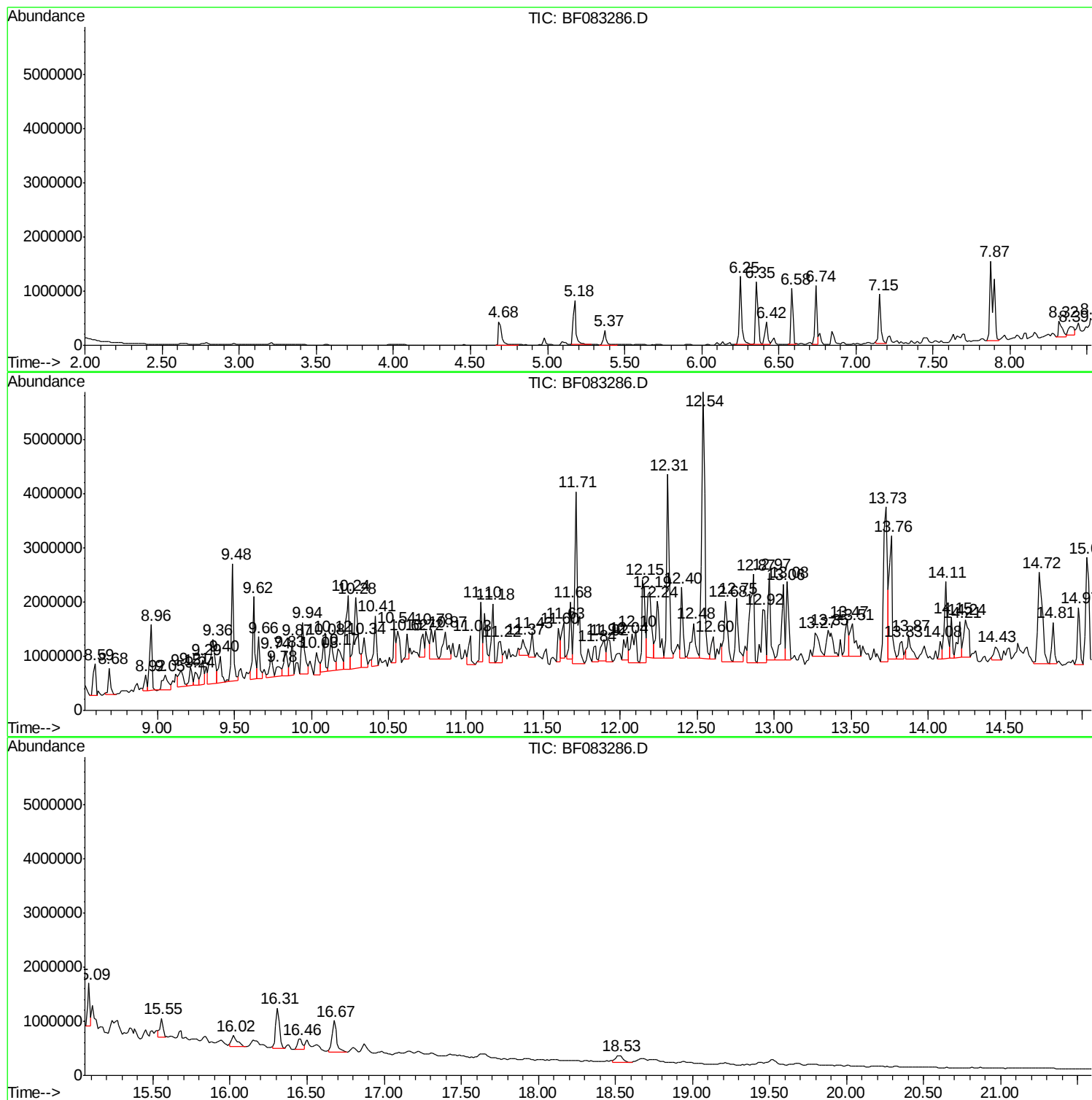
Sum of corrected areas: 124438475

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.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\BF112515\  
Data File : BF083286.D  
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Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
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STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

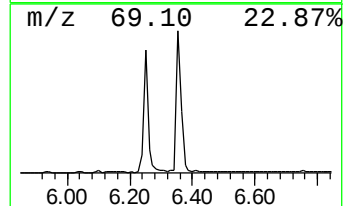
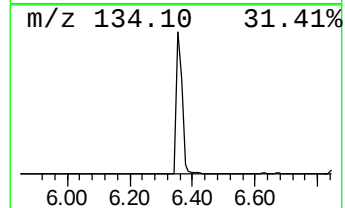
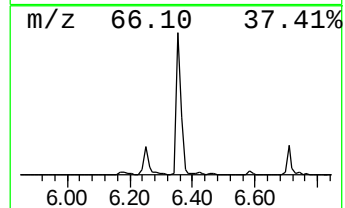
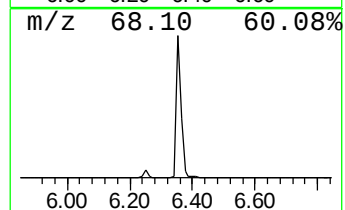
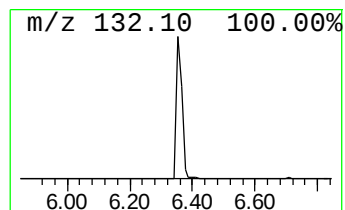
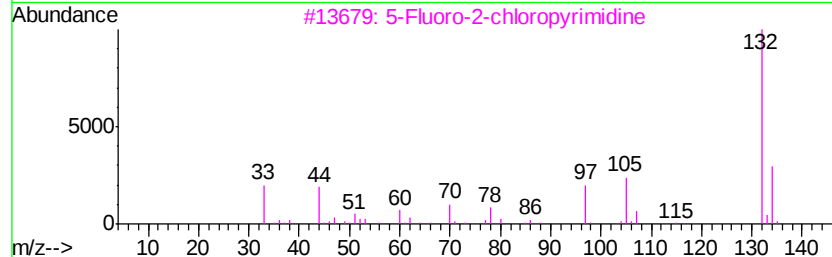
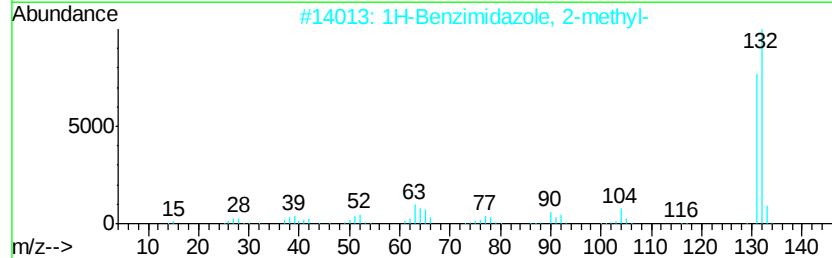
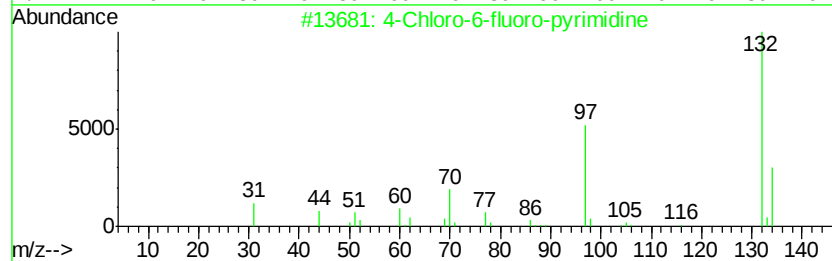
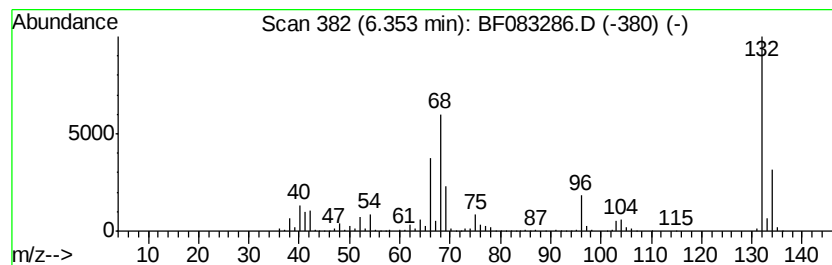
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.35 Concentration Rank 8

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.35 | 24.54 ng | 1250240 | 1,4-Dichlorobenzene-d4 | 6.58 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 25   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |



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STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

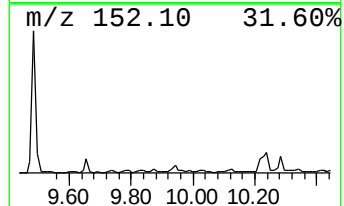
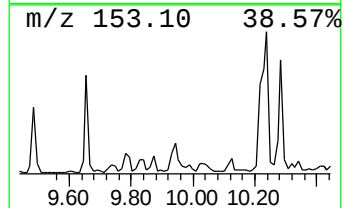
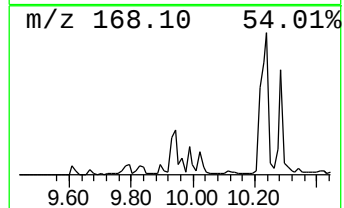
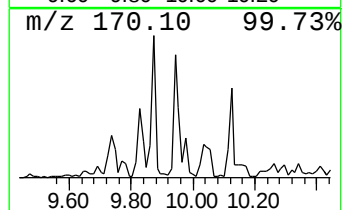
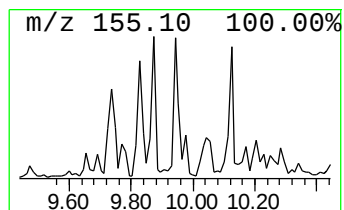
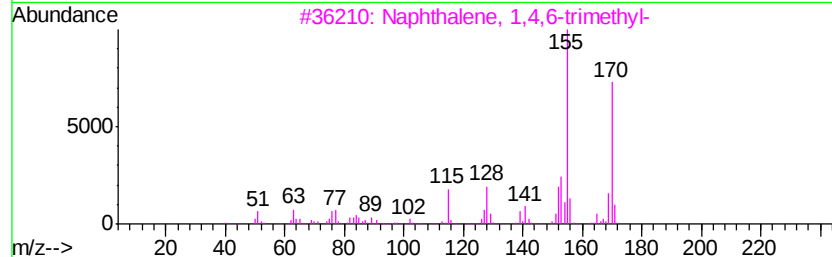
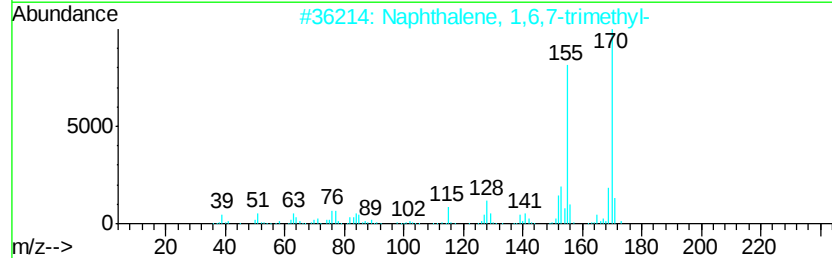
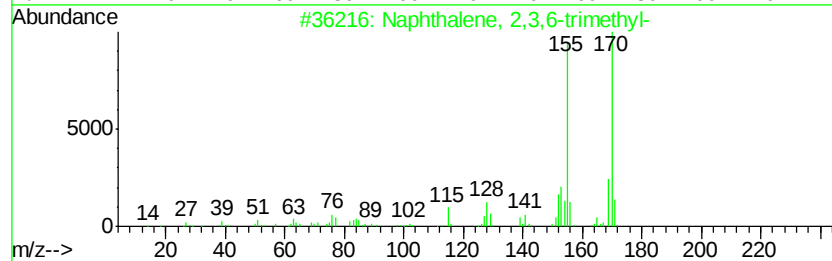
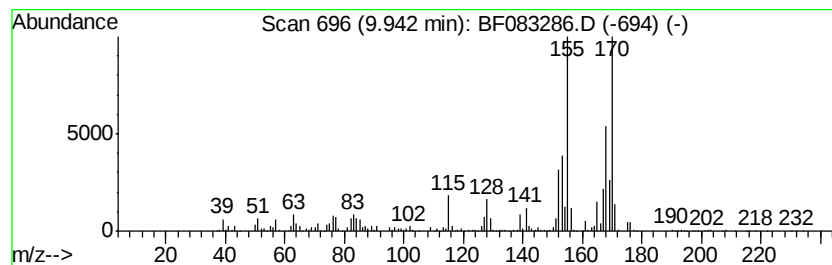
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.94 | 16.16 ng | 1401240 | Acenaphthene-d10 | 9.62 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |
| 3    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 93   |
| 4    |    | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 92   |
| 5    |    | Azulene, 4,6,8-trimethyl-     | 170 | C13H14  | 000941-81-1 | 83   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

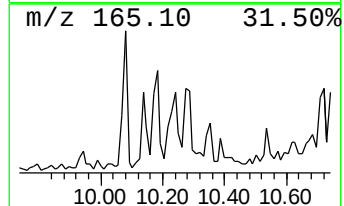
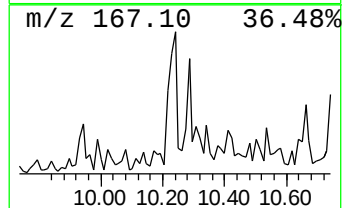
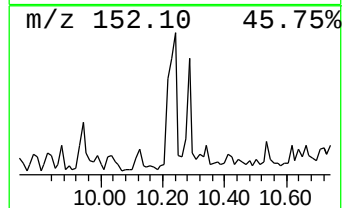
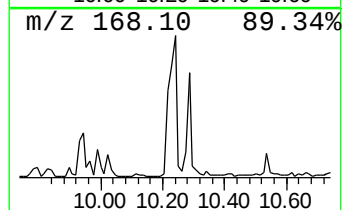
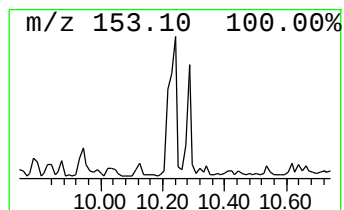
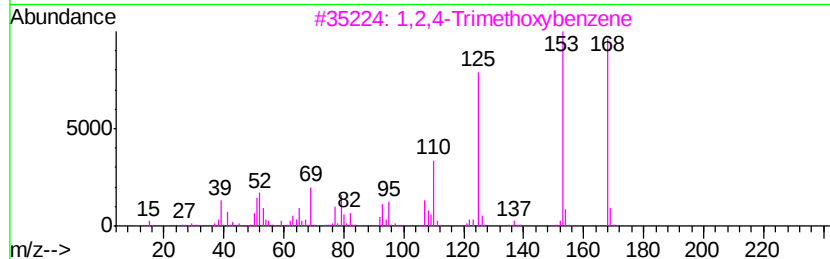
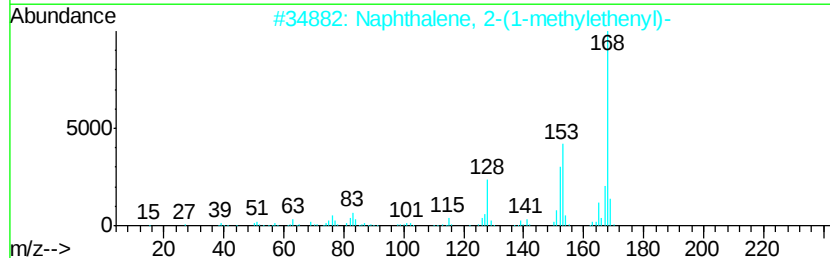
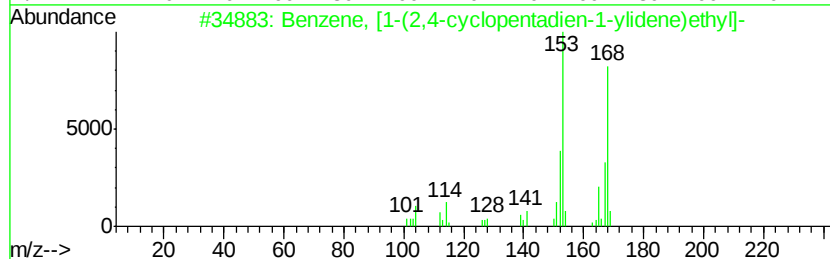
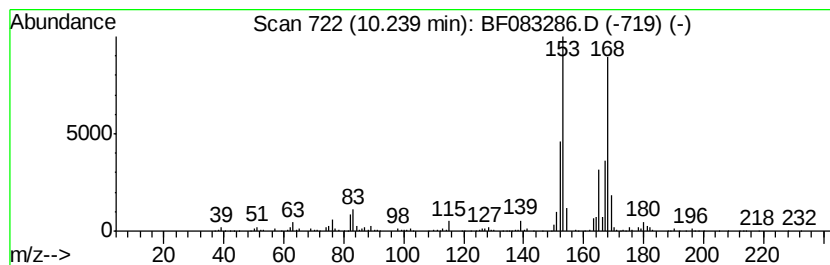
Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Benzene, [1-(2,4-cyclopenta... Concentration Rank 6

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 10.24   | 27.92 ng | 2421170                             | Acenaphthene-d10 | 9.62           |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Benzene, [1-(2,4-cyclopentadien-... | 168 C13H12       | 002320-32-3 83 |
| 2       |          | Naphthalene, 2-(1-methylethenyl)-   | 168 C13H12       | 003710-23-4 59 |
| 3       |          | 1,2,4-Trimethoxybenzene             | 168 C9H12O3      | 000135-77-3 50 |
| 4       |          | Naphthalene, 1-(2-propenyl)-        | 168 C13H12       | 002489-86-3 50 |
| 5       |          | 1-Methoxy-2-methyl-4-(methylthio... | 168 C9H12OS      | 050390-78-8 40 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

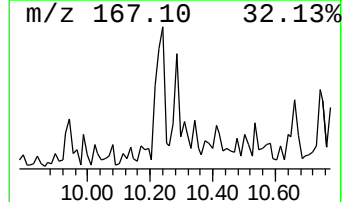
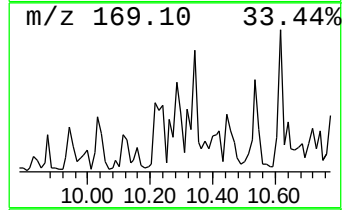
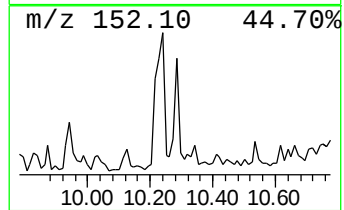
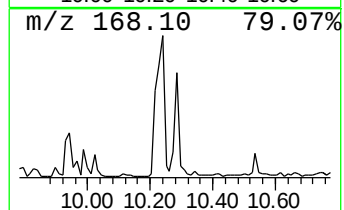
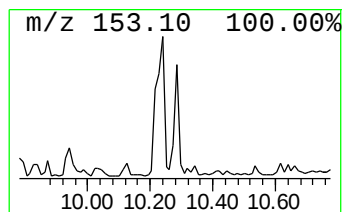
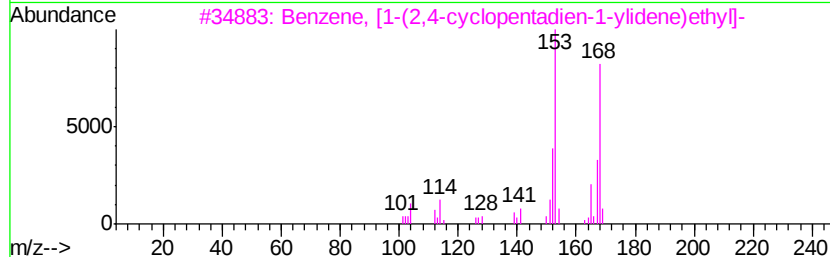
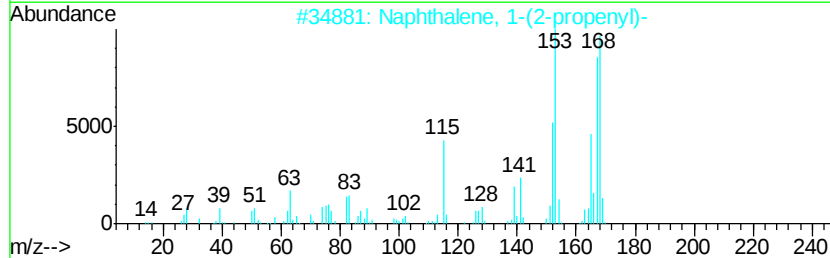
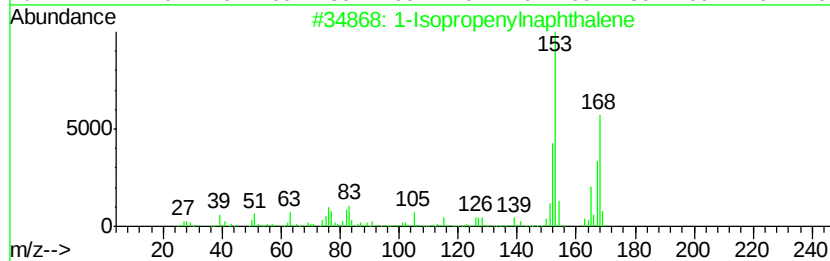
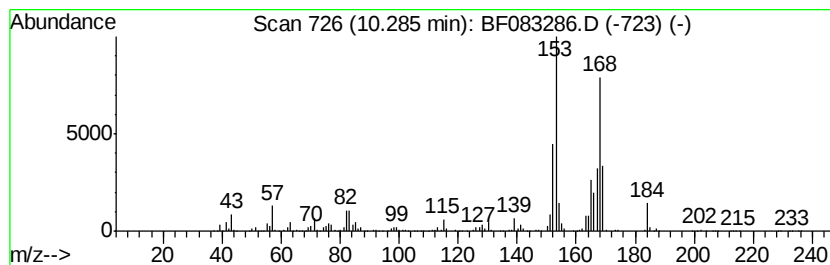
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1-Isopropenylnaphthalene Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T. |
|-------|----------|---------|------------------|------|
| 10.28 | 27.46 ng | 2380960 | Acenaphthene-d10 | 9.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 64   |
| 2    |    | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 59   |
| 3    |    | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 58   |
| 4    |    | 1,1'-Biphenyl, 4-methyl-            | 168 | C13H12  | 000644-08-6 | 38   |
| 5    |    | 1,1'-Biphenyl, 2-methyl-            | 168 | C13H12  | 000643-58-3 | 37   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

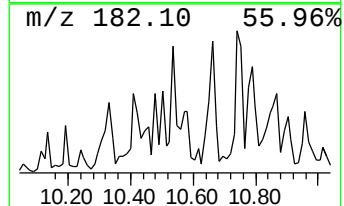
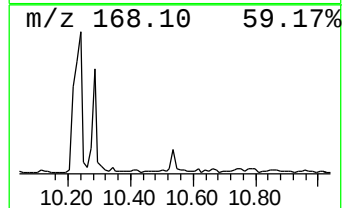
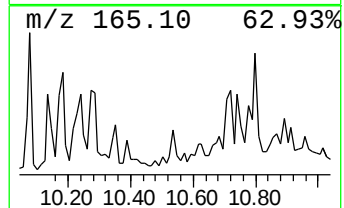
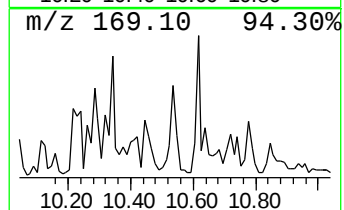
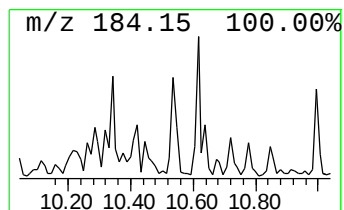
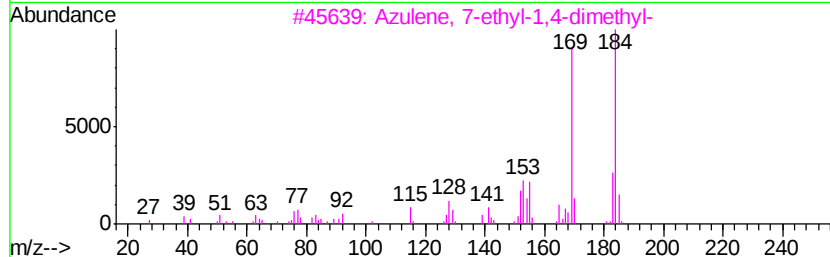
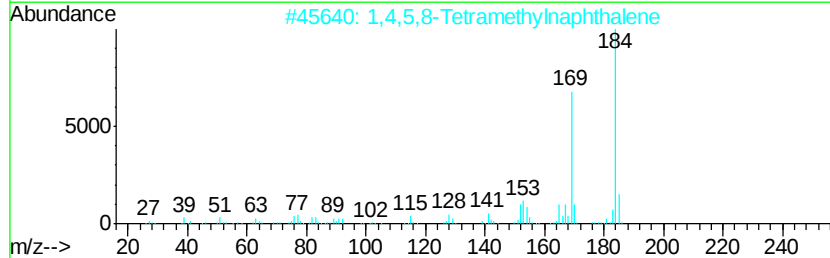
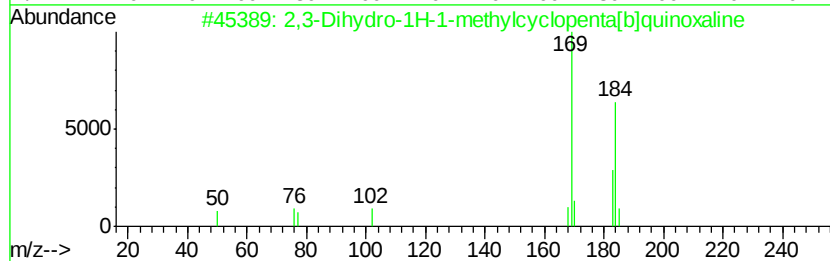
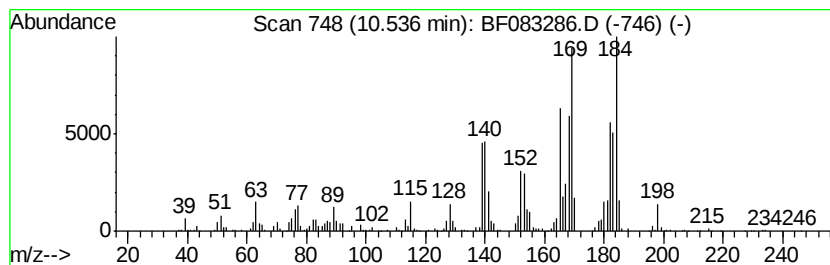
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 unknown10.54 Concentration Rank 20

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.54 | 15.14 ng | 761081 | Phenanthrene-d10 | 11.10 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2,3-Dihydro-1H-1-methylcyclopent... | 184 | C12H12N2     | 026629-21-0  | 43      |      |      |
| 2    | 1,4,5,8-Tetramethylnaphthalene      | 184 | C14H16       | 002717-39-7  | 41      |      |      |
| 3    | Azulene, 7-ethyl-1,4-dimethyl-      | 184 | C14H16       | 000529-05-5  | 41      |      |      |
| 4    | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16       | 1000152-22-4 | 41      |      |      |
| 5    | Benzene, (4,5,5-trimethyl-1,3-cy... | 184 | C14H16       | 033930-85-7  | 38      |      |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

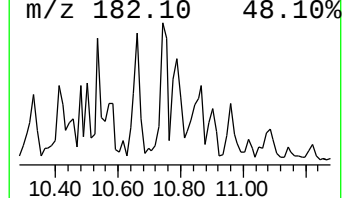
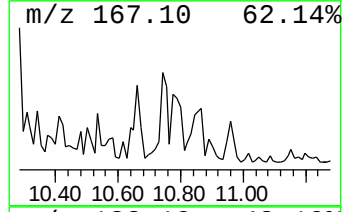
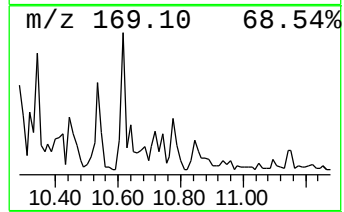
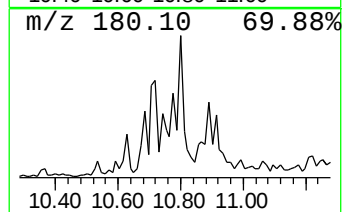
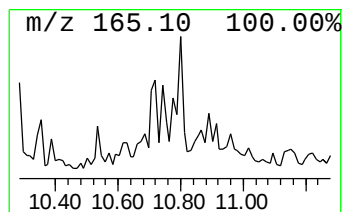
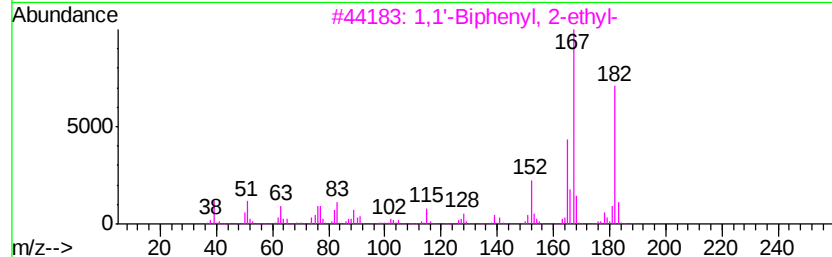
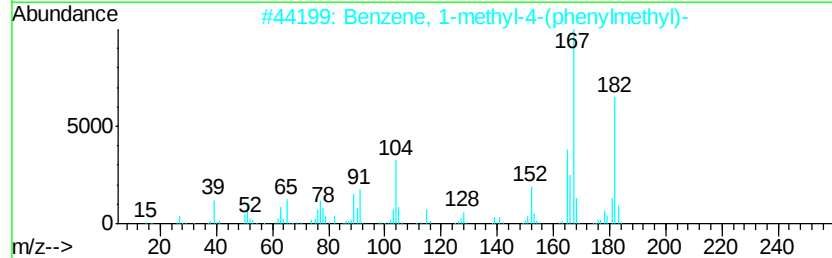
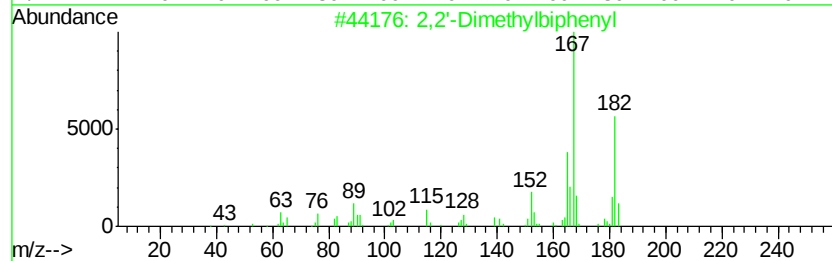
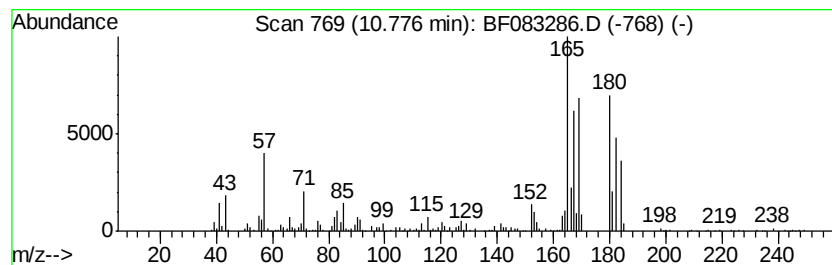
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown10.78 Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.78 | 19.88 ng | 999727 | Phenanthrene-d10 | 11.10 |

| Hit# | of                                  | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------------|------------------|-----|---------|-------------|------|
| 1    | 2,2'                                | Dimethylbiphenyl | 182 | C14H14  | 000605-39-0 | 38   |
| 2    | Benzene, 1-methyl-4-(phenylmethyl)- |                  | 182 | C14H14  | 000620-83-7 | 30   |
| 3    | 1,1'-Biphenyl, 2-ethyl-             |                  | 182 | C14H14  | 001812-51-7 | 30   |
| 4    | 1,1'-Biphenyl, 2,3'-dimethyl-       |                  | 182 | C14H14  | 000611-43-8 | 30   |
| 5    | 1,1'-Biphenyl, 2,4'-dimethyl-       |                  | 182 | C14H14  | 000611-61-0 | 27   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

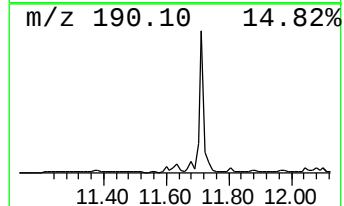
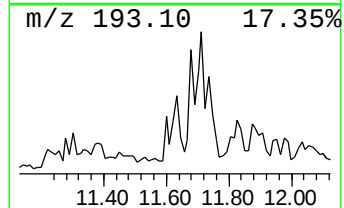
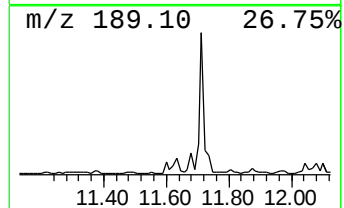
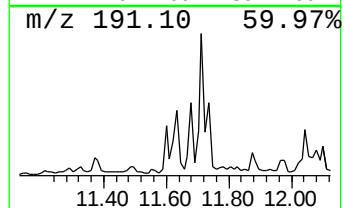
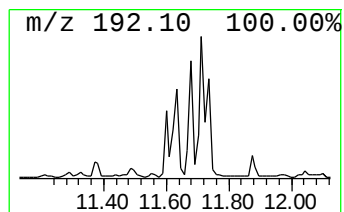
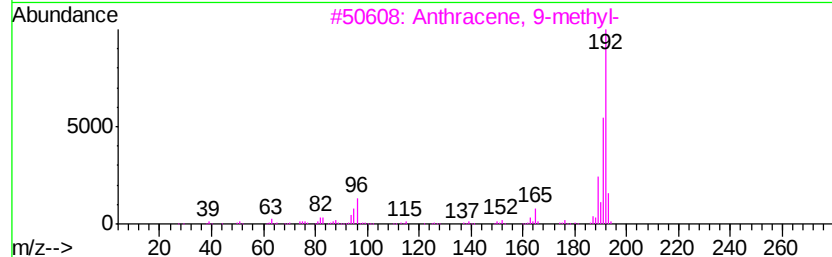
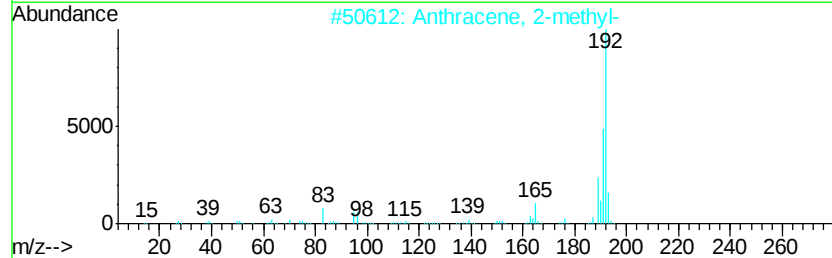
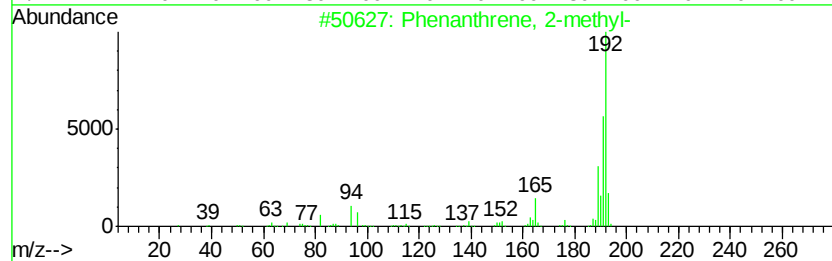
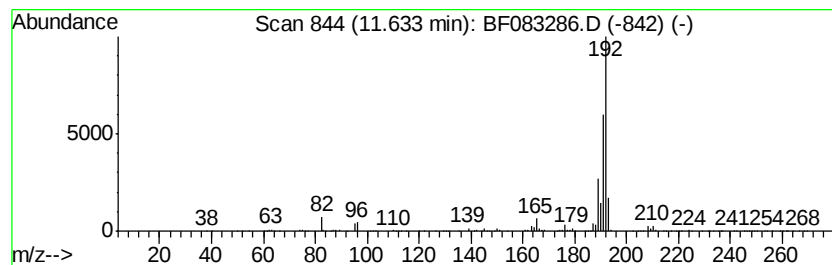
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 18

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.63 | 16.00 ng | 804471 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 87   |
| 2    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 87   |
| 3    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 83   |
| 4    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 81   |
| 5    |    | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 76   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

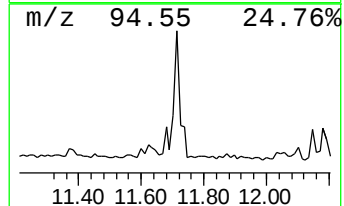
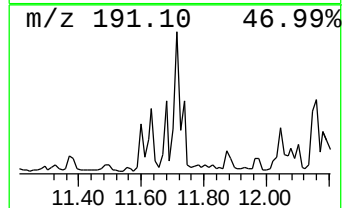
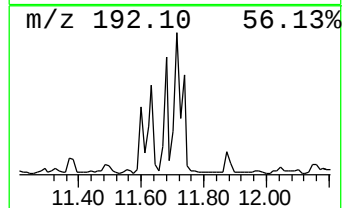
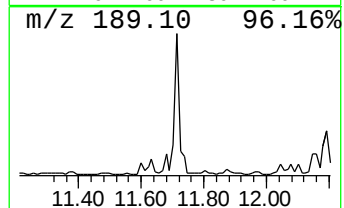
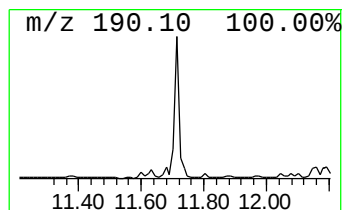
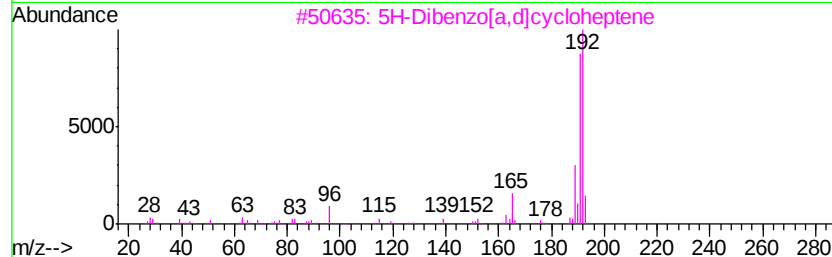
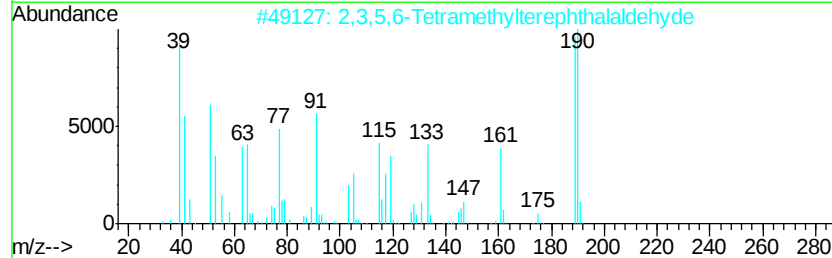
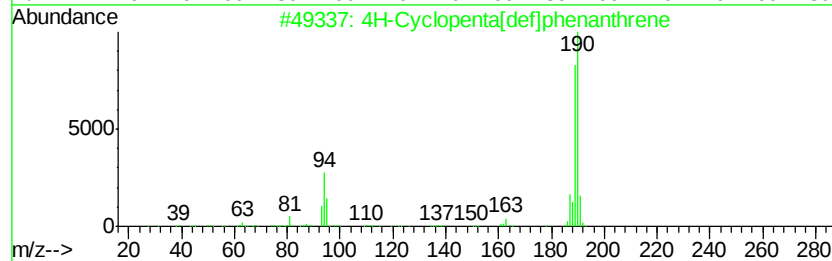
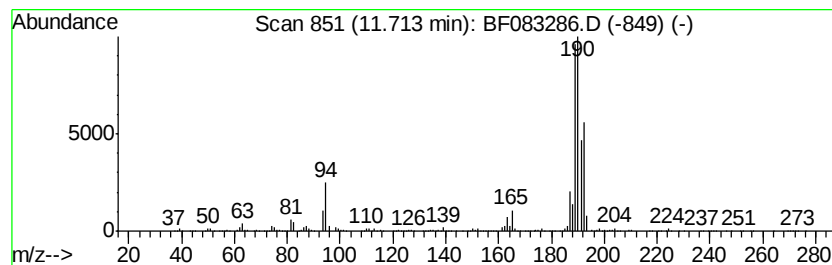
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.71 | 81.15 ng | 4080520 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5  | 95   |
| 2    |    | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7  | 43   |
| 3    |    | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12   | 000256-81-5  | 18   |
| 4    |    | Propyne, 1,3-diphenyl-              | 192 | C15H12   | 004980-70-5  | 14   |
| 5    |    | Naphtho[1,2-b]norbornadiene         | 192 | C15H12   | 1000210-14-8 | 14   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

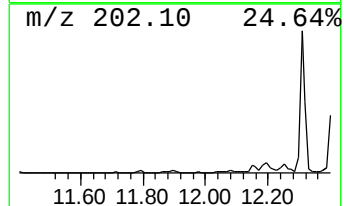
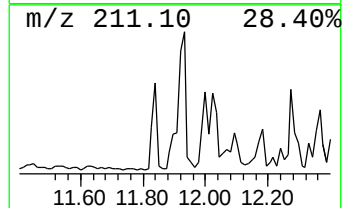
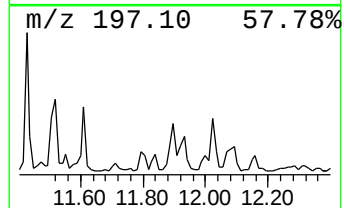
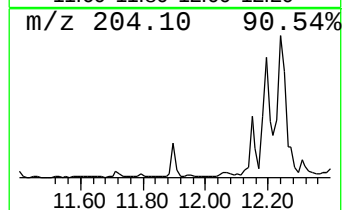
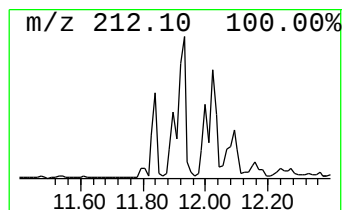
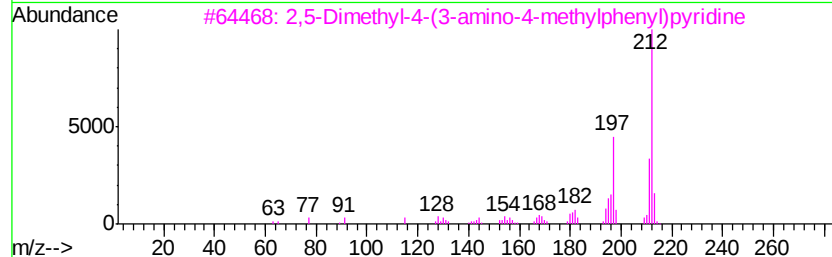
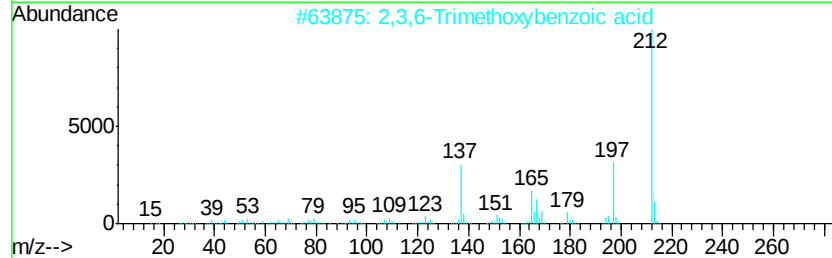
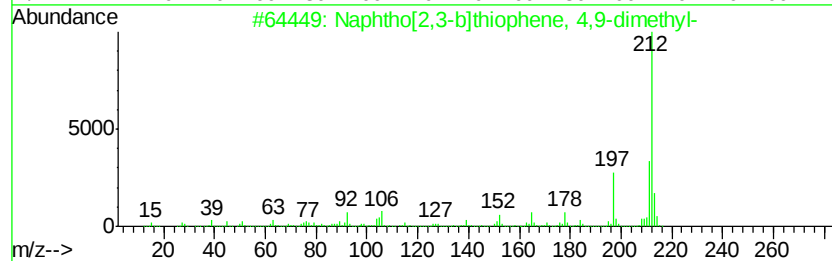
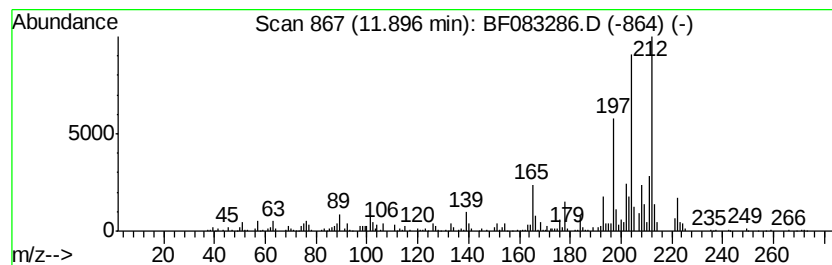
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 unknown11.90 Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.90 | 15.17 ng | 762722 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphtho[2,3-b]thiophene, 4,9-dim... | 212 | C14H12S   | 016587-34-1 | 43   |
| 2    |    | 2,3,6-Trimethoxybenzoic acid        | 212 | C10H12O5  | 060241-74-9 | 30   |
| 3    |    | 2,5-Dimethyl-4-(3-amino-4-methyl... | 212 | C14H16N2  | 071153-33-8 | 30   |
| 4    |    | .beta.-Carboline, 8-methoxy-1-me... | 212 | C13H12N2O | 212332-24-6 | 30   |
| 5    |    | Benzoic acid, 2,4,5-trimethoxy-     | 212 | C10H12O5  | 000490-64-2 | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

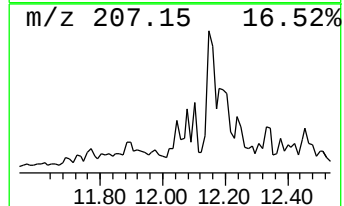
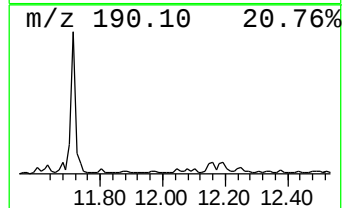
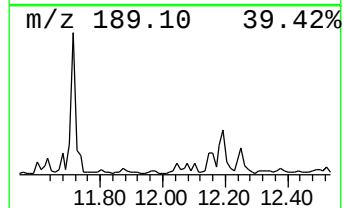
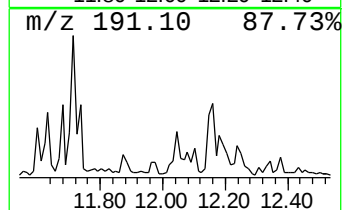
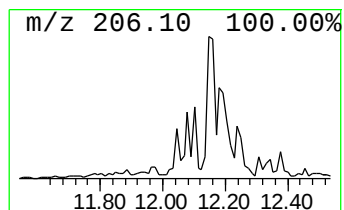
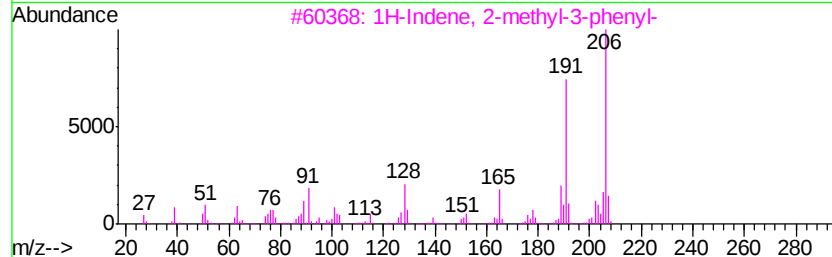
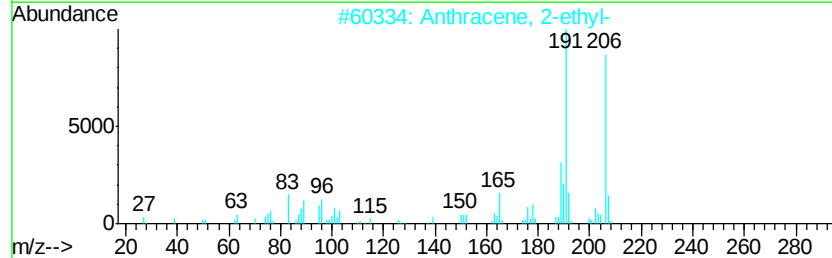
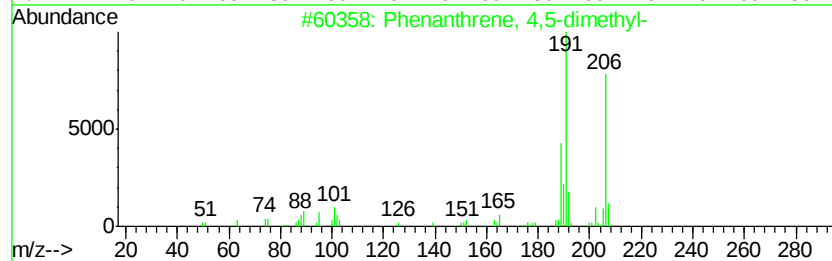
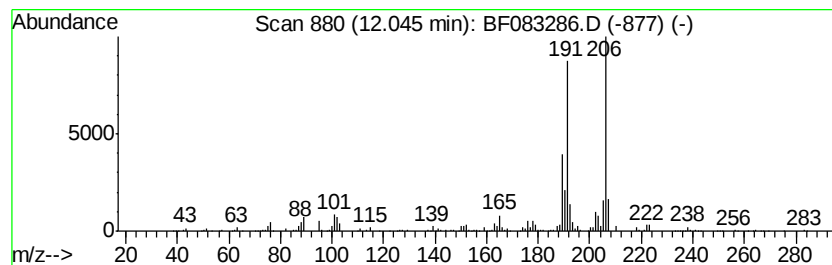
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Phenanthrene, 4,5-dimethyl- Concentration Rank 16

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.04 | 16.48 ng | 828509 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 4,5-dimethyl-   | 206 | C16H14  | 003674-69-9 | 97   |
| 2    |    | Anthracene, 2-ethyl-          | 206 | C16H14  | 052251-71-5 | 81   |
| 3    |    | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14  | 035099-60-6 | 76   |
| 4    |    | 3-Methyl-1-phenyl-1H-indene   | 206 | C16H14  | 022360-63-0 | 76   |
| 5    |    | Phenanthrene, 9-ethyl-        | 206 | C16H14  | 003674-75-7 | 76   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

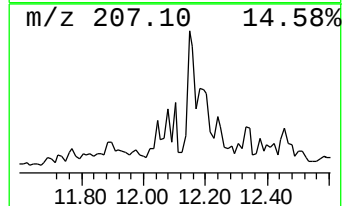
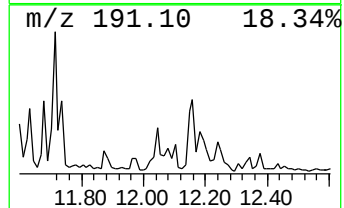
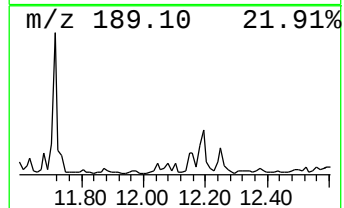
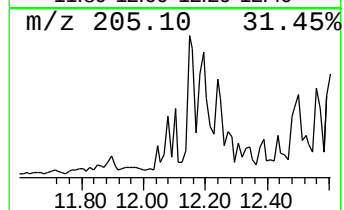
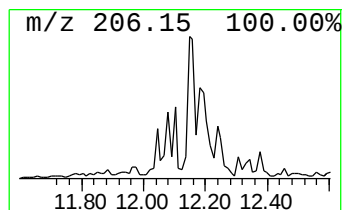
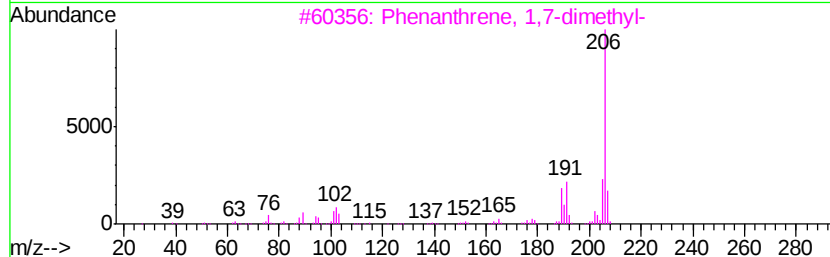
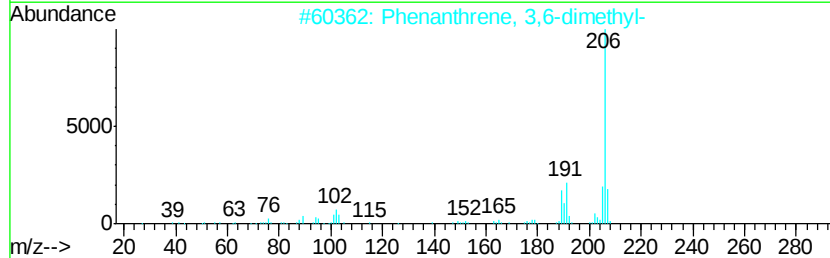
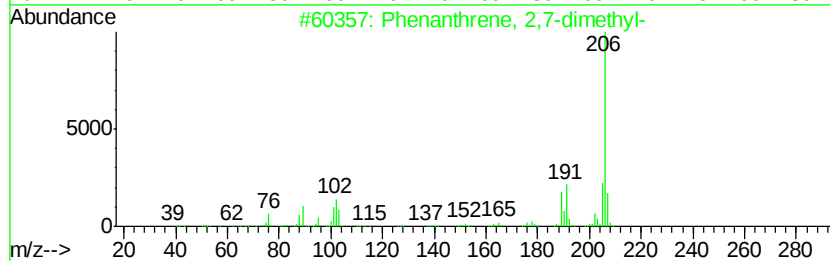
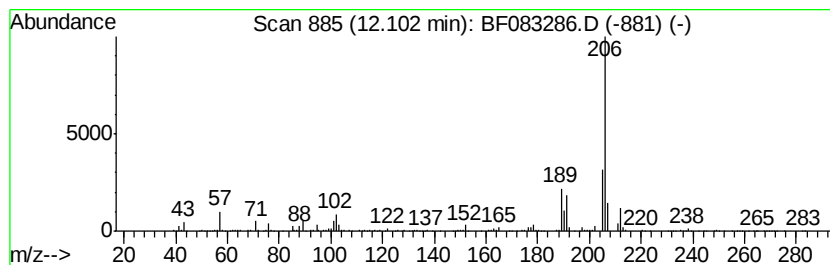
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Phenanthrene, 2,7-dimethyl- Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.10 | 24.41 ng | 1227520 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Phenanthrene, 2,7-dimethyl-         | 206 | C16H14    | 001576-69-8 | 83   |
| 2    |    | Phenanthrene, 3,6-dimethyl-         | 206 | C16H14    | 001576-67-6 | 81   |
| 3    |    | Phenanthrene, 1,7-dimethyl-         | 206 | C16H14    | 000483-87-4 | 76   |
| 4    |    | di-p-Tolylacetylene                 | 206 | C16H14    | 002789-88-0 | 64   |
| 5    |    | 5-Methyl-2-(p-tolylimino)-1,3-th... | 206 | C11H14N2S | 070446-87-6 | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

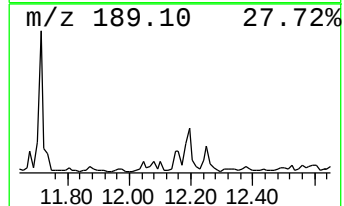
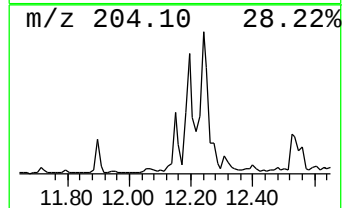
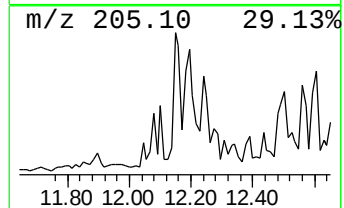
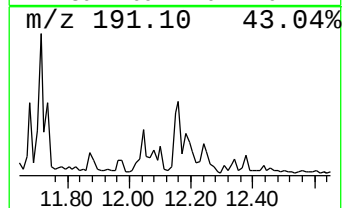
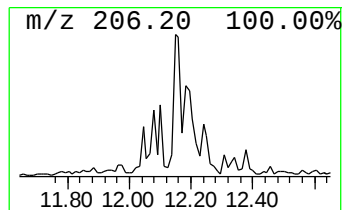
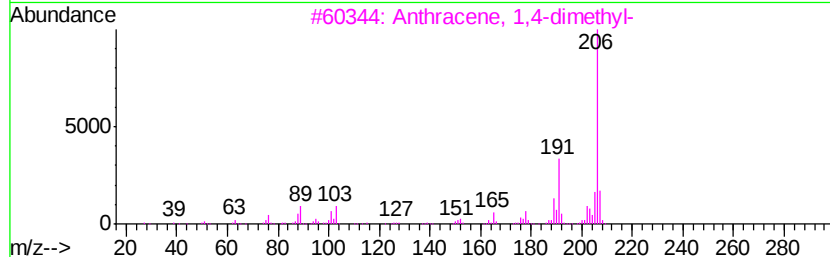
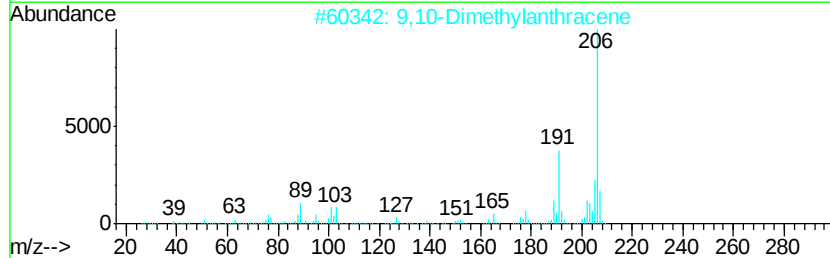
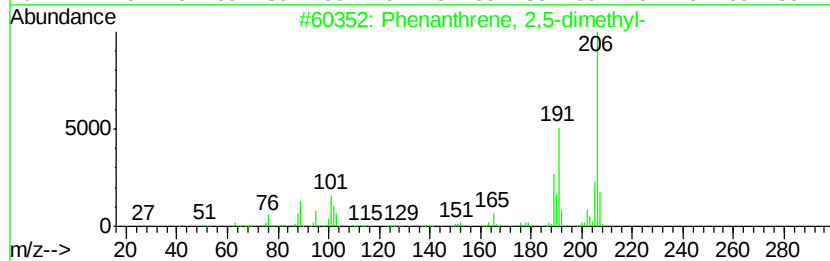
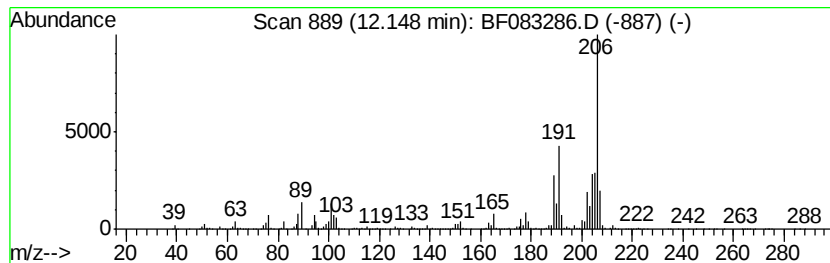
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.15 | 47.34 ng | 2380380 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 2    |    | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 3    |    | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 93   |
| 4    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 90   |
| 5    |    | Phenanthrene, 2,7-dimethyl- | 206 | C16H14  | 001576-69-8 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

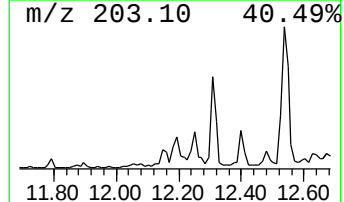
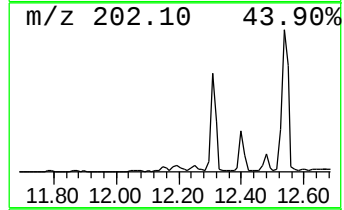
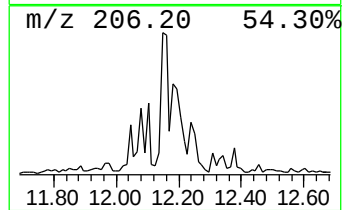
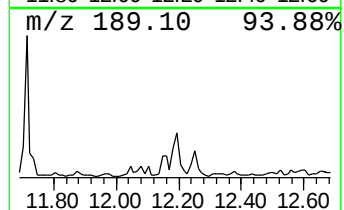
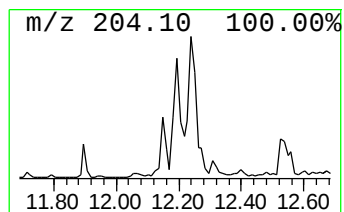
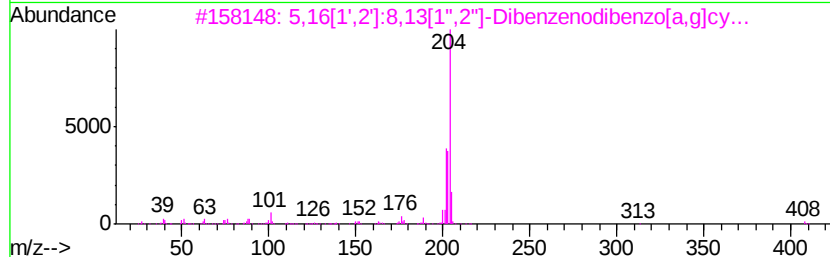
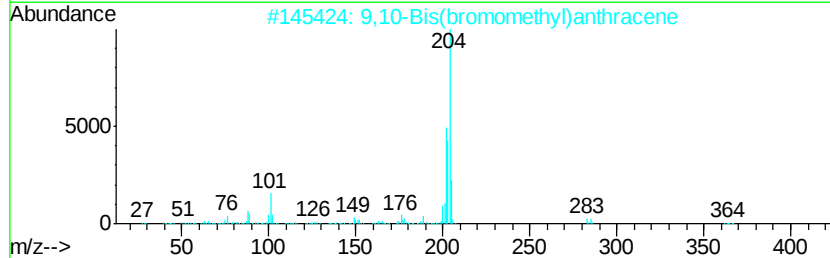
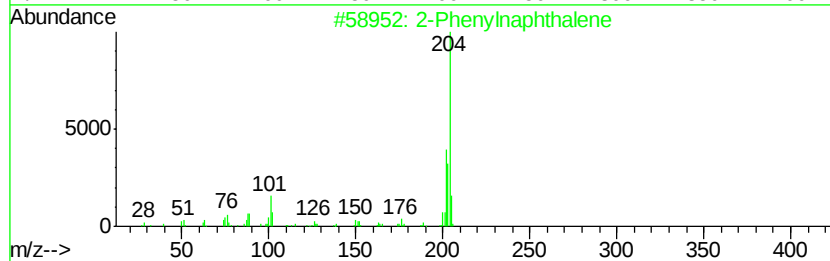
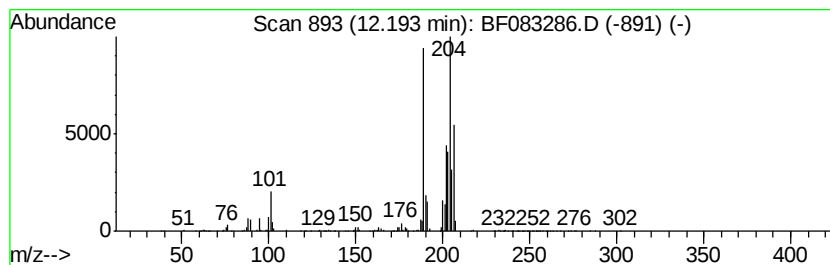
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 unknown12.19 Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.19 | 43.87 ng | 2205930 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 2-Phenyl-naphthalene                | 204 | C16H12    | 035465-71-5 | 46   |
| 2    |    | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 43   |
| 3    |    | 5,16[1',2'] : 8,13[1',2']-Dibenz... | 408 | C32H24    | 005672-97-9 | 43   |
| 4    |    | 6-Phenylbenzocyclohepten-7-one      | 232 | C17H12O   | 093327-56-1 | 38   |
| 5    |    | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112515\  
Data File : BF083286.D  
Acq On : 25 Nov 2015 21:20  
Operator : UM/IZ  
Sample : G4567-02 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

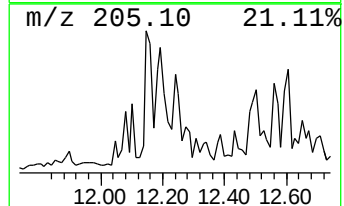
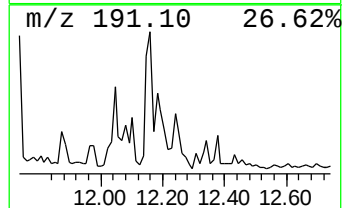
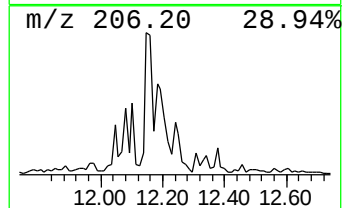
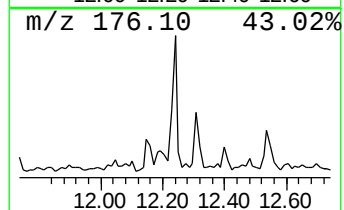
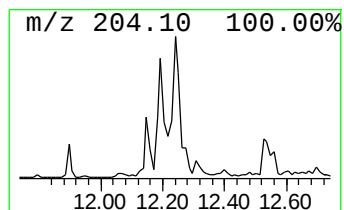
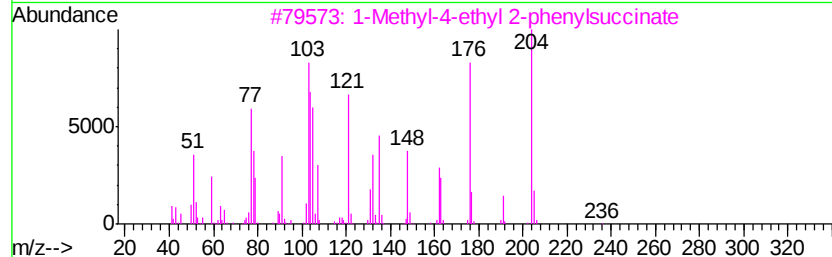
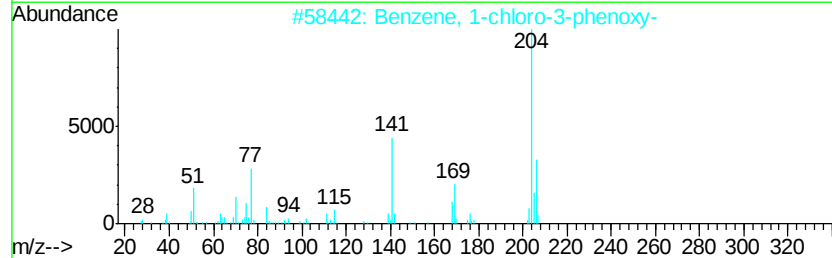
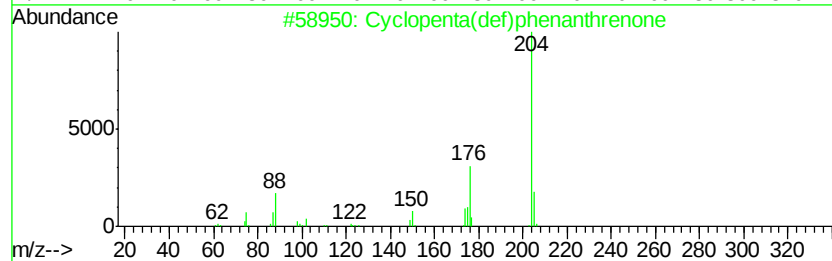
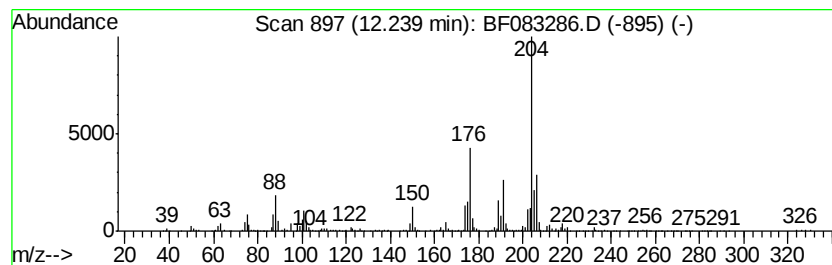
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.24 | 38.90 ng | 1956020 | Phenanthrene-d10 | 11.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone       | 204 | C15H8O   | 005737-13-3 | 97   |
| 2    |    | Benzene, 1-chloro-3-phenoxy-        | 204 | C12H9ClO | 006452-49-9 | 46   |
| 3    |    | 1-Methyl-4-ethyl 2-phenylsuccinate  | 236 | C13H16O4 | 132545-36-9 | 42   |
| 4    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24   | 137235-51-9 | 38   |
| 5    |    | [1,1'-Biphenyl]-4-ol, 3-chloro-     | 204 | C12H9ClO | 000092-04-6 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112515\  
 Data File : BF083286.D  
 Acq On : 25 Nov 2015 21:20  
 Operator : UM/IZ  
 Sample : G4567-02 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 STOCKPILE-COMPOSITE2

Quant Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name      | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|-----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                       |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.35           | 6.35  | 24.5    | ng    | 1250240  | 1                     | 6.58  | 1018850 | 20.0 |
| Naphthalene, 2,3,...  | 9.94  | 16.2    | ng    | 1401240  | 3                     | 9.62  | 1734380 | 20.0 |
| Benzene, [1-(2,4-...  | 10.24 | 27.9    | ng    | 2421170  | 3                     | 9.62  | 1734380 | 20.0 |
| 1-Isopropenyl naph... | 10.28 | 27.5    | ng    | 2380960  | 3                     | 9.62  | 1734380 | 20.0 |
| unknown10.54          | 10.54 | 15.1    | ng    | 761081   | 4                     | 11.10 | 1005700 | 20.0 |
| unknown10.78          | 10.78 | 19.9    | ng    | 999727   | 4                     | 11.10 | 1005700 | 20.0 |
| Phenanthrene, 2-m...  | 11.63 | 16.0    | ng    | 804471   | 4                     | 11.10 | 1005700 | 20.0 |
| 4H-Cyclopenta[def...  | 11.71 | 81.2    | ng    | 4080520  | 4                     | 11.10 | 1005700 | 20.0 |
| unknown11.90          | 11.90 | 15.2    | ng    | 762722   | 4                     | 11.10 | 1005700 | 20.0 |
| Phenanthrene, 4,5...  | 12.04 | 16.5    | ng    | 828509   | 4                     | 11.10 | 1005700 | 20.0 |
| Phenanthrene, 2,7...  | 12.10 | 24.4    | ng    | 1227520  | 4                     | 11.10 | 1005700 | 20.0 |
| Phenanthrene, 2,5...  | 12.15 | 47.3    | ng    | 2380380  | 4                     | 11.10 | 1005700 | 20.0 |
| unknown12.19          | 12.19 | 43.9    | ng    | 2205930  | 4                     | 11.10 | 1005700 | 20.0 |
| Cyclopenta(def)ph...  | 12.24 | 38.9    | ng    | 1956020  | 4                     | 11.10 | 1005700 | 20.0 |