

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
 Data File : BF094816.D  
 Acq On : 3 May 2017 3:20  
 Operator : SJ/MA  
 Sample : I2920-06 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-210/72-11940/72-11932

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-BF050217.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         | 5.007       | 518           | 522         | 537          | rBV      | 30035          | 53552         | 2.68%           | 0.217%        |
| 2         | 5.678       | 632           | 636         | 658          | rBV      | 208892         | 374334        | 18.70%          | 1.517%        |
| 3         | 7.266       | 903           | 906         | 920          | rBV      | 211117         | 363182        | 18.14%          | 1.472%        |
| 4         | 7.390       | 922           | 927         | 938          | rVB      | 310278         | 442369        | 22.10%          | 1.793%        |
| 5         | 7.725       | 980           | 984         | 994          | rVB      | 499294         | 555576        | 27.76%          | 2.252%        |
| 6         | 7.960       | 1020          | 1024        | 1038         | rVB      | 288362         | 337657        | 16.87%          | 1.368%        |
| 7         | 8.619       | 1131          | 1136        | 1148         | rBV      | 157583         | 232080        | 11.59%          | 0.941%        |
| 8         | 9.748       | 1323          | 1328        | 1341         | rBV      | 610841         | 704236        | 35.18%          | 2.854%        |
| 9         | 11.519      | 1625          | 1629        | 1643         | rBV      | 423588         | 482219        | 24.09%          | 1.954%        |
| 10        | 12.213      | 1743          | 1747        | 1753         | rBV      | 28693          | 38280         | 1.91%           | 0.155%        |
| 11        | 12.577      | 1804          | 1809        | 1815         | rBV2     | 565482         | 689510        | 34.45%          | 2.794%        |
| 12        | 12.630      | 1815          | 1818        | 1823         | rVB      | 28526          | 36847         | 1.84%           | 0.149%        |
| 13        | 13.424      | 1947          | 1953        | 1957         | rBV2     | 22524          | 29282         | 1.46%           | 0.119%        |
| 14        | 13.477      | 1957          | 1962        | 1966         | rVB      | 30490          | 37974         | 1.90%           | 0.154%        |
| 15        | 13.871      | 2025          | 2029        | 2039         | rBV2     | 170355         | 224192        | 11.20%          | 0.909%        |
| 16        | 14.377      | 2108          | 2115        | 2118         | rBV3     | 15952          | 28597         | 1.43%           | 0.116%        |
| 17        | 14.413      | 2118          | 2121        | 2128         | rVV3     | 16172          | 25335         | 1.27%           | 0.103%        |
| 18        | 14.501      | 2128          | 2136        | 2142         | rVB6     | 10393          | 27495         | 1.37%           | 0.111%        |
| 19        | 14.689      | 2166          | 2168        | 2177         | rVB4     | 13042          | 24147         | 1.21%           | 0.098%        |
| 20        | 14.771      | 2177          | 2182        | 2186         | rBV3     | 16313          | 30269         | 1.51%           | 0.123%        |
| 21        | 14.813      | 2186          | 2189        | 2193         | rVB      | 22989          | 26197         | 1.31%           | 0.106%        |
| 22        | 14.930      | 2205          | 2209        | 2212         | rBV3     | 16445          | 20690         | 1.03%           | 0.084%        |
| 23        | 14.977      | 2212          | 2217        | 2220         | rVV      | 528178         | 648167        | 32.38%          | 2.627%        |
| 24        | 15.013      | 2220          | 2223        | 2229         | rVV      | 485863         | 530483        | 26.50%          | 2.150%        |
| 25        | 15.095      | 2229          | 2237        | 2243         | rVB      | 165612         | 202466        | 10.11%          | 0.821%        |
| 26        | 15.195      | 2247          | 2254        | 2258         | rBV6     | 20264          | 33405         | 1.67%           | 0.135%        |
| 27        | 15.383      | 2280          | 2286        | 2289         | rBV      | 17785          | 23940         | 1.20%           | 0.097%        |
| 28        | 15.465      | 2297          | 2300        | 2303         | rBV      | 27912          | 30899         | 1.54%           | 0.125%        |
| 29        | 15.495      | 2303          | 2305        | 2309         | rVB      | 22892          | 23367         | 1.17%           | 0.095%        |
| 30        | 15.760      | 2345          | 2350        | 2353         | rBV      | 119088         | 134821        | 6.74%           | 0.546%        |
| 31        | 15.795      | 2353          | 2356        | 2361         | rVV      | 159019         | 182270        | 9.11%           | 0.739%        |
| 32        | 15.865      | 2365          | 2368        | 2371         | rVV      | 78896          | 83274         | 4.16%           | 0.337%        |
| 33        | 15.907      | 2371          | 2375        | 2379         | rVV2     | 237120         | 326454        | 16.31%          | 1.323%        |
| 34        | 15.948      | 2379          | 2382        | 2390         | rVB      | 118829         | 148415        | 7.41%           | 0.601%        |

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 VNJ-210/72-11940/72-11932

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-BF050217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 16.101 | 2404 | 2408 | 2414 | rVV4 | 23419   | 36606   | 1.83%   | 0.148% |
| 36 | 16.201 | 2419 | 2425 | 2428 | rVV  | 105959  | 143057  | 7.15%   | 0.580% |
| 37 | 16.236 | 2428 | 2431 | 2435 | rVB  | 65436   | 71681   | 3.58%   | 0.290% |
| 38 | 16.407 | 2457 | 2460 | 2465 | rBV2 | 26060   | 33290   | 1.66%   | 0.135% |
| 39 | 16.454 | 2465 | 2468 | 2471 | rVV  | 41672   | 37538   | 1.88%   | 0.152% |
| 40 | 16.483 | 2471 | 2473 | 2479 | rVB  | 29511   | 33814   | 1.69%   | 0.137% |
| 41 | 16.554 | 2480 | 2485 | 2488 | rBV  | 123915  | 165511  | 8.27%   | 0.671% |
| 42 | 16.595 | 2488 | 2492 | 2496 | rVV3 | 82047   | 113275  | 5.66%   | 0.459% |
| 43 | 16.630 | 2496 | 2498 | 2500 | rVV  | 33418   | 25821   | 1.29%   | 0.105% |
| 44 | 16.660 | 2500 | 2503 | 2510 | rVB3 | 88238   | 154460  | 7.72%   | 0.626% |
| 45 | 16.760 | 2512 | 2520 | 2524 | rBV  | 1698574 | 1901110 | 94.98%  | 7.704% |
| 46 | 16.801 | 2524 | 2527 | 2532 | rVB2 | 48257   | 60354   | 3.02%   | 0.245% |
| 47 | 16.854 | 2532 | 2536 | 2539 | rBV3 | 61902   | 73012   | 3.65%   | 0.296% |
| 48 | 16.889 | 2539 | 2542 | 2548 | rVB4 | 28297   | 47961   | 2.40%   | 0.194% |
| 49 | 16.954 | 2549 | 2553 | 2559 | rBV4 | 81319   | 126780  | 6.33%   | 0.514% |
| 50 | 17.060 | 2564 | 2571 | 2575 | rBV  | 1668883 | 2001666 | 100.00% | 8.112% |
| 51 | 17.142 | 2580 | 2585 | 2588 | rVB2 | 65769   | 91444   | 4.57%   | 0.371% |
| 52 | 17.177 | 2588 | 2591 | 2595 | rVB2 | 42147   | 54497   | 2.72%   | 0.221% |
| 53 | 17.242 | 2595 | 2602 | 2605 | rBV  | 98700   | 133928  | 6.69%   | 0.543% |
| 54 | 17.301 | 2605 | 2612 | 2617 | rVB2 | 367510  | 451989  | 22.58%  | 1.832% |
| 55 | 17.354 | 2617 | 2621 | 2622 | rBV  | 31148   | 38631   | 1.93%   | 0.157% |
| 56 | 17.377 | 2622 | 2625 | 2629 | rVB2 | 106730  | 137266  | 6.86%   | 0.556% |
| 57 | 17.483 | 2638 | 2643 | 2646 | rBV3 | 109547  | 200312  | 10.01%  | 0.812% |
| 58 | 17.518 | 2646 | 2649 | 2654 | rVB  | 280777  | 310369  | 15.51%  | 1.258% |
| 59 | 17.571 | 2654 | 2658 | 2660 | rBV3 | 25794   | 35112   | 1.75%   | 0.142% |
| 60 | 17.607 | 2660 | 2664 | 2668 | rVV  | 200947  | 213469  | 10.66%  | 0.865% |
| 61 | 17.648 | 2668 | 2671 | 2675 | rVV2 | 231823  | 281459  | 14.06%  | 1.141% |
| 62 | 17.701 | 2678 | 2680 | 2682 | rVV2 | 28206   | 28076   | 1.40%   | 0.114% |
| 63 | 17.730 | 2682 | 2685 | 2688 | rVV3 | 24733   | 38261   | 1.91%   | 0.155% |
| 64 | 17.765 | 2688 | 2691 | 2695 | rVV  | 147341  | 151073  | 7.55%   | 0.612% |
| 65 | 17.807 | 2695 | 2698 | 2703 | rVV  | 108260  | 121123  | 6.05%   | 0.491% |
| 66 | 18.036 | 2731 | 2737 | 2739 | rBV6 | 42171   | 80101   | 4.00%   | 0.325% |
| 67 | 18.077 | 2742 | 2744 | 2747 | rVB3 | 28034   | 33744   | 1.69%   | 0.137% |
| 68 | 18.159 | 2755 | 2758 | 2760 | rBV2 | 48420   | 55500   | 2.77%   | 0.225% |
| 69 | 18.189 | 2760 | 2763 | 2766 | rVB  | 98932   | 111451  | 5.57%   | 0.452% |
| 70 | 18.265 | 2773 | 2776 | 2779 | rBV  | 32441   | 30193   | 1.51%   | 0.122% |
| 71 | 18.318 | 2781 | 2785 | 2788 | rVV2 | 156089  | 207397  | 10.36%  | 0.840% |

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 18.354 | 2788 | 2791 | 2793 | rVV  | 141639  | 164988  | 8.24%  | 0.669% |
| 73  | 18.377 | 2793 | 2795 | 2798 | rVV  | 137724  | 148605  | 7.42%  | 0.602% |
| 74  | 18.412 | 2798 | 2801 | 2806 | rVB2 | 86582   | 121542  | 6.07%  | 0.493% |
| 75  | 18.459 | 2806 | 2809 | 2813 | rBV  | 144796  | 157124  | 7.85%  | 0.637% |
| 76  | 18.536 | 2820 | 2822 | 2826 | rVB  | 36349   | 39746   | 1.99%  | 0.161% |
| 77  | 18.636 | 2834 | 2839 | 2843 | rBV2 | 1076101 | 1749921 | 87.42% | 7.092% |
| 78  | 18.677 | 2843 | 2846 | 2849 | rVV  | 882321  | 1001713 | 50.04% | 4.060% |
| 79  | 18.706 | 2849 | 2851 | 2855 | rVB4 | 57700   | 76172   | 3.81%  | 0.309% |
| 80  | 18.771 | 2858 | 2862 | 2865 | rVB2 | 202349  | 206222  | 10.30% | 0.836% |
| 81  | 18.836 | 2871 | 2873 | 2876 | rVB  | 65243   | 57939   | 2.89%  | 0.235% |
| 82  | 18.912 | 2883 | 2886 | 2889 | rVB  | 124438  | 129265  | 6.46%  | 0.524% |
| 83  | 18.953 | 2890 | 2893 | 2899 | rBV3 | 67200   | 103053  | 5.15%  | 0.418% |
| 84  | 19.101 | 2914 | 2918 | 2920 | rBV3 | 81757   | 99113   | 4.95%  | 0.402% |
| 85  | 19.142 | 2920 | 2925 | 2929 | rVV  | 199385  | 285962  | 14.29% | 1.159% |
| 86  | 19.183 | 2930 | 2932 | 2938 | rVB  | 100853  | 110067  | 5.50%  | 0.446% |
| 87  | 19.259 | 2942 | 2945 | 2948 | rVB2 | 117071  | 113311  | 5.66%  | 0.459% |
| 88  | 19.295 | 2948 | 2951 | 2953 | rBV3 | 72763   | 103839  | 5.19%  | 0.421% |
| 89  | 19.401 | 2967 | 2969 | 2972 | rVB2 | 48209   | 45208   | 2.26%  | 0.183% |
| 90  | 19.630 | 3005 | 3008 | 3011 | rBV3 | 50391   | 59221   | 2.96%  | 0.240% |
| 91  | 19.742 | 3024 | 3027 | 3032 | rVB4 | 68201   | 75678   | 3.78%  | 0.307% |
| 92  | 19.906 | 3050 | 3055 | 3058 | rBV  | 876659  | 1338402 | 66.86% | 5.424% |
| 93  | 20.012 | 3070 | 3073 | 3077 | rVB  | 211309  | 215564  | 10.77% | 0.874% |
| 94  | 20.195 | 3100 | 3104 | 3108 | rBV  | 510555  | 590146  | 29.48% | 2.392% |
| 95  | 20.253 | 3111 | 3114 | 3120 | rBV  | 742795  | 901180  | 45.02% | 3.652% |
| 96  | 20.312 | 3120 | 3124 | 3126 | rBV  | 439488  | 487386  | 24.35% | 1.975% |
| 97  | 20.336 | 3126 | 3128 | 3132 | rVB  | 198608  | 209475  | 10.47% | 0.849% |
| 98  | 21.600 | 3338 | 3343 | 3351 | rVB2 | 311152  | 572316  | 28.59% | 2.319% |
| 99  | 21.747 | 3364 | 3368 | 3372 | rBV2 | 78481   | 138740  | 6.93%  | 0.562% |
| 100 | 21.977 | 3402 | 3407 | 3412 | rBV  | 224014  | 390476  | 19.51% | 1.582% |

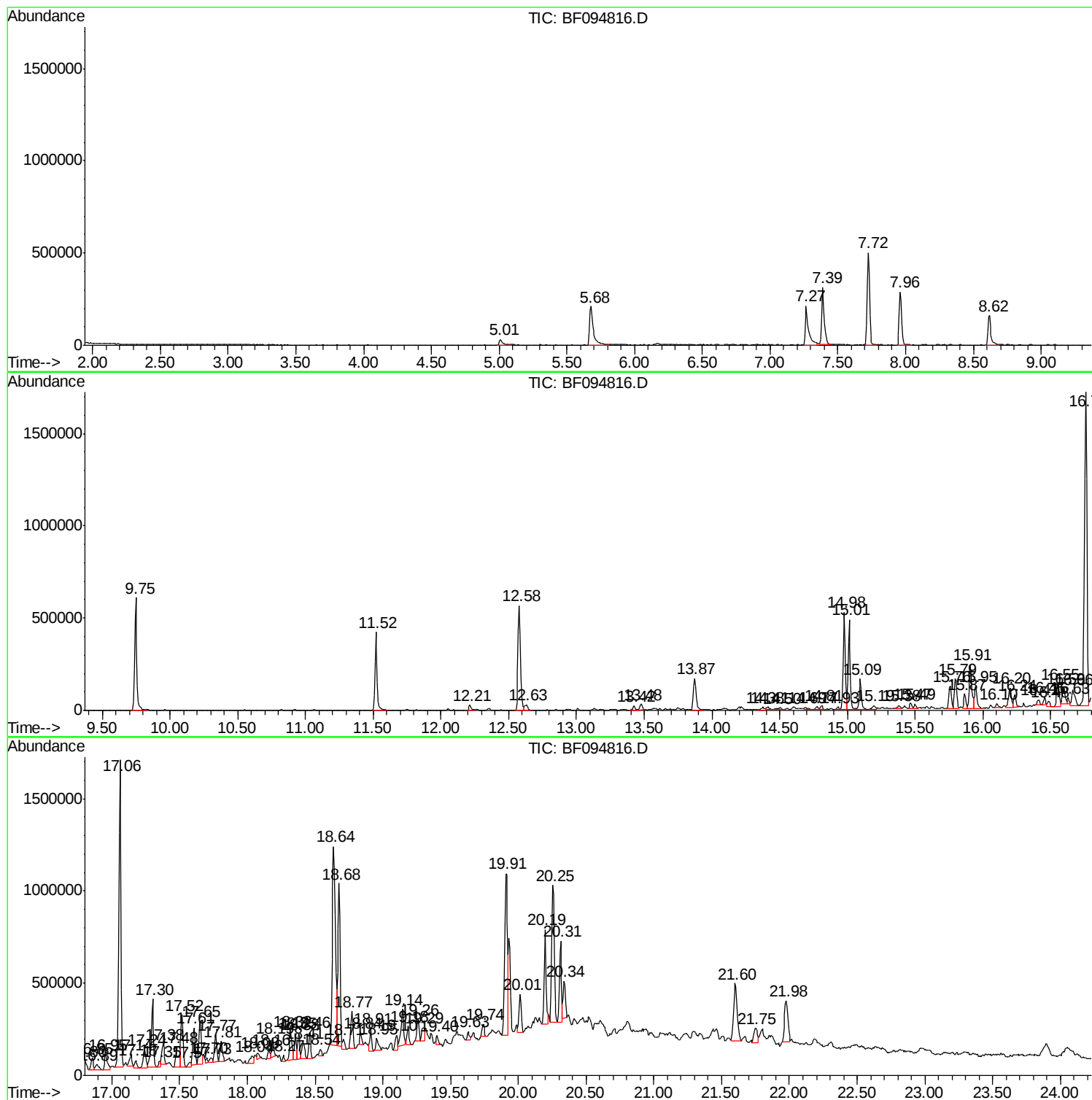
Sum of corrected areas: 24675686

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Instrument :  
BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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\BF050217\  
Data File : BF094816.D  
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Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VNJ-210/72-11940/72-11932

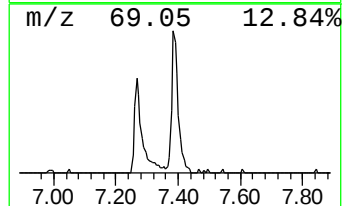
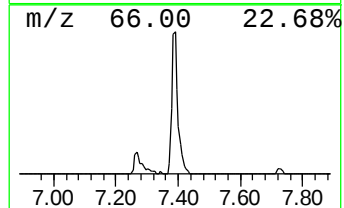
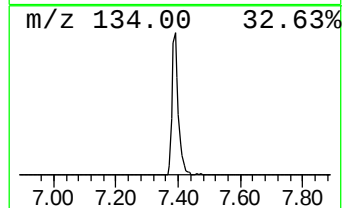
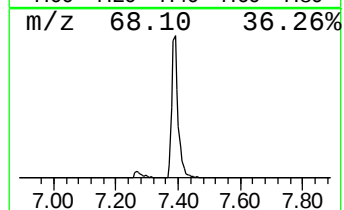
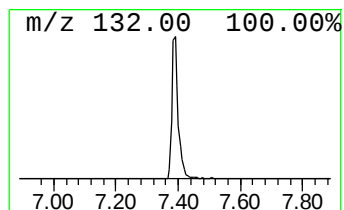
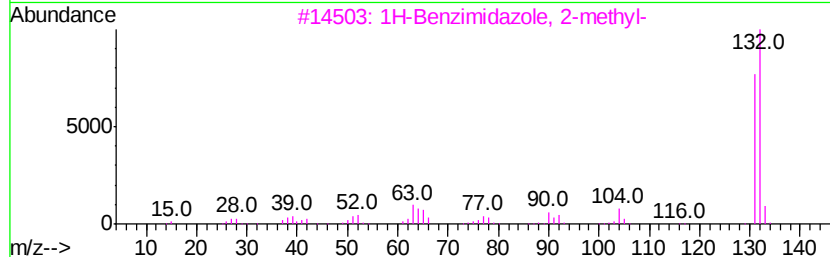
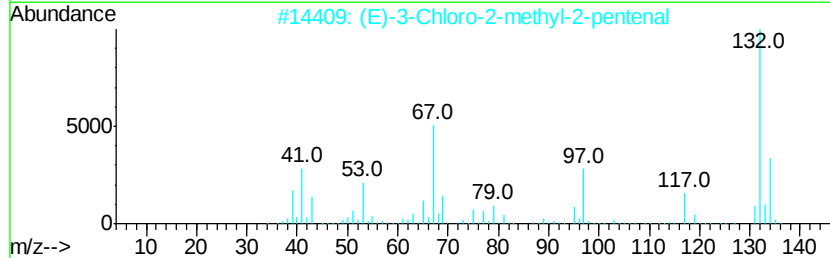
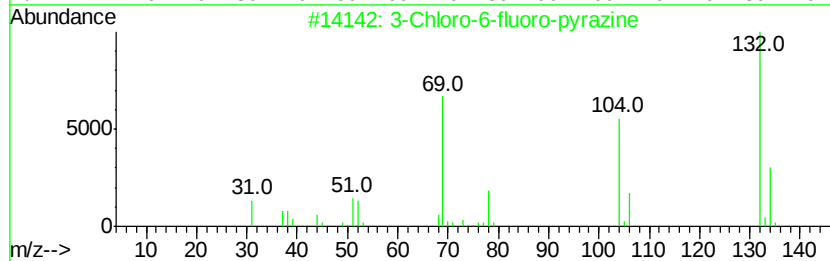
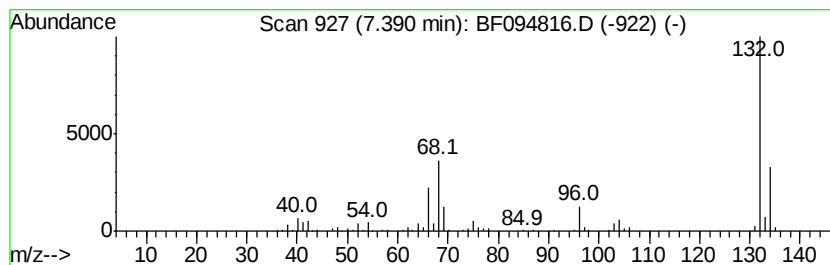
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown7.39 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.39 | 15.92 ng | 442369 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6  | 10   |
| 4    |    | 1H-Indazole, 7-methyl-              | 132 | C8H8N2    | 1000316-00-7 | 10   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

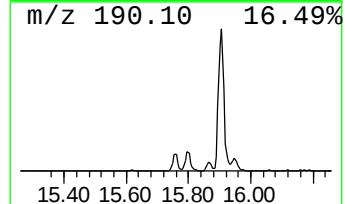
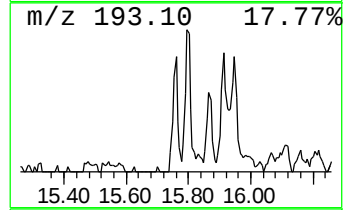
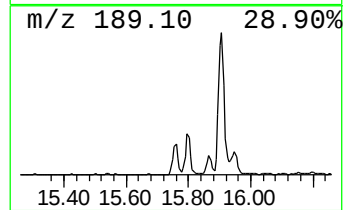
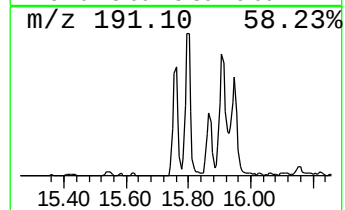
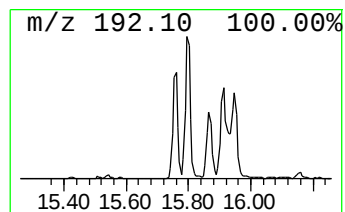
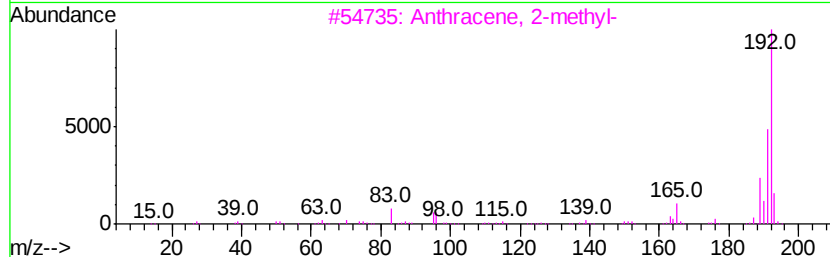
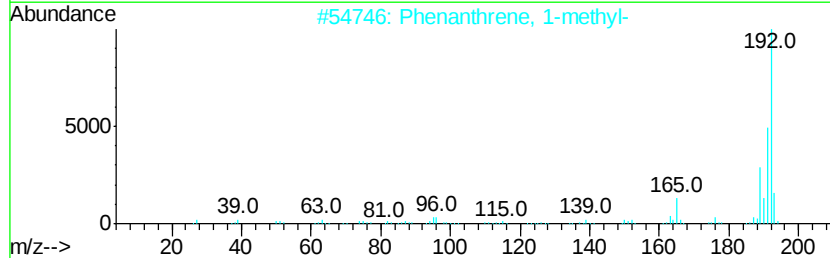
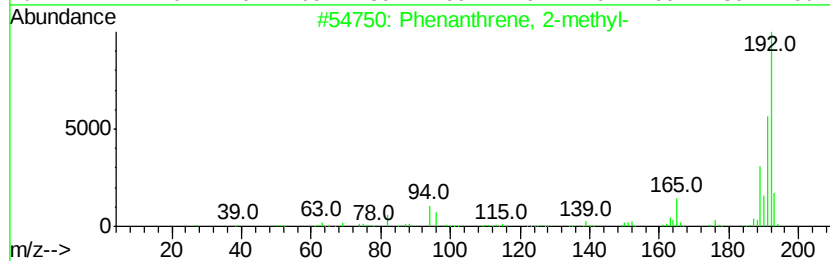
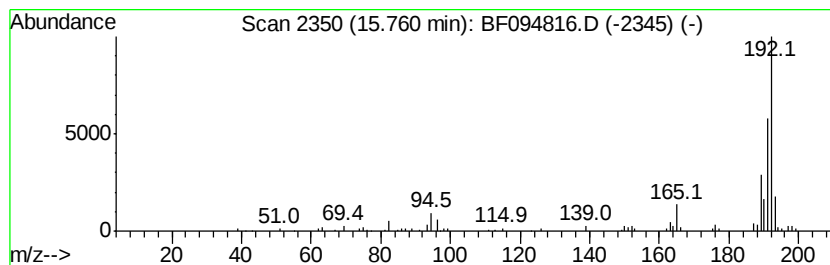
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.76 | 4.16 ng | 134821 | Phenanthrene-d10 | 14.98 |

| Hit# of 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|-----------|---------------------------------------|-----|---------|-------------|------|
| 1         | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 98   |
| 2         | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 97   |
| 3         | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 4         | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 95   |
| 5         | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

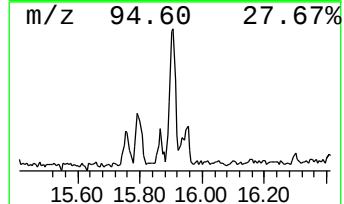
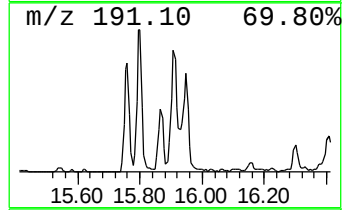
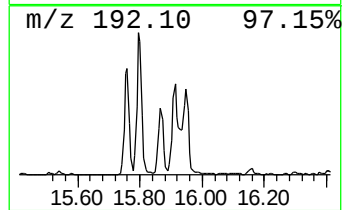
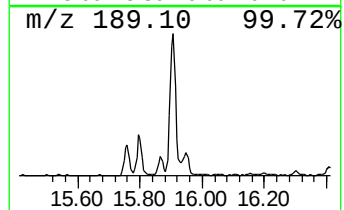
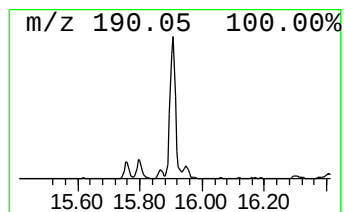
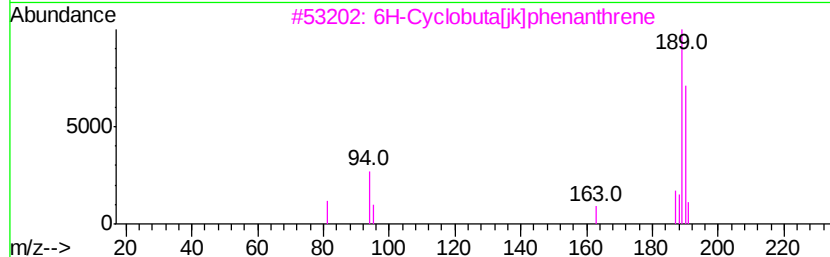
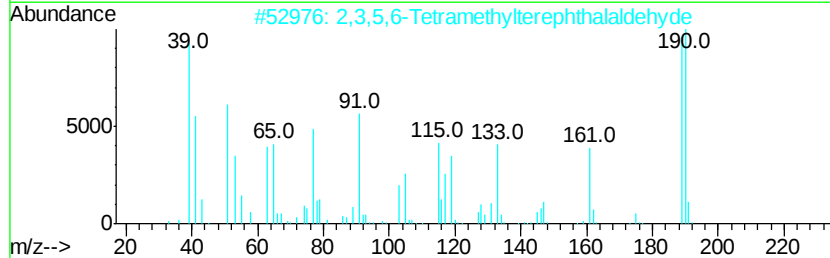
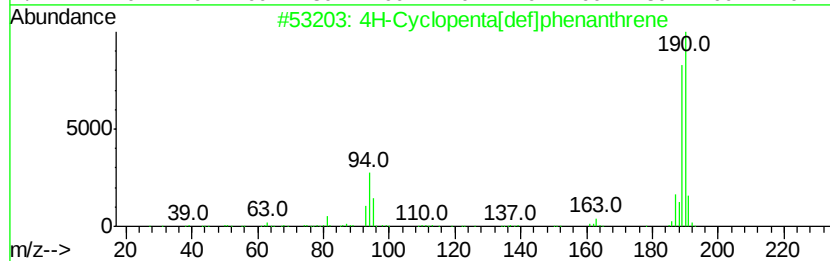
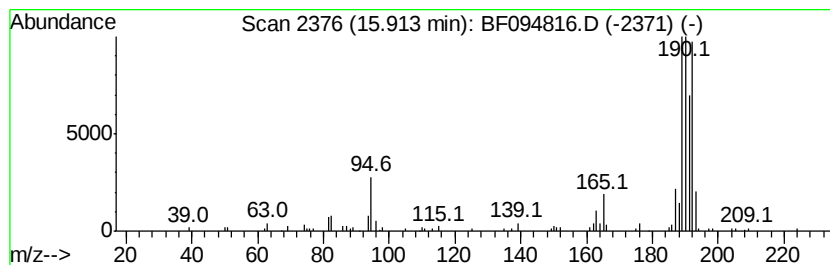
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VNJ-210/72-11940/72-11932

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.        |              |      |
|---------|----------|-------------------------------------|------------------|-------------|--------------|------|
| 15.91   | 10.07 ng | 326454                              | Phenanthrene-d10 | 14.98       |              |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm     | CAS#         | Qual |
| 1       |          | 4H-Cvclopenta[def]phenanthrene      | 190              | C15H10      | 000203-64-5  | 92   |
| 2       |          | 2,3,5,6-Tetramethylterephthalald... | 190              | C12H14O2    | 007072-01-7  | 43   |
| 3       |          | 6H-Cvclobuta[ikl]phenanthrene       | 190              | C15H10      | 083469-43-6  | 40   |
| 4       |          | 2,2'-Bis(4,5-dimethylimidazole)     | 190              | C10H14N4    | 069286-06-2  | 40   |
| 5       |          | Carbonic acid, butyl 2-formyl-4,... | 290              | C12H12Cl2O4 | 1000331-42-2 | 32   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
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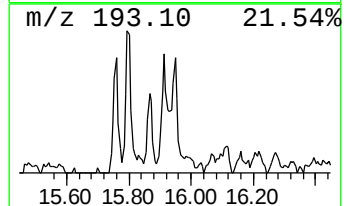
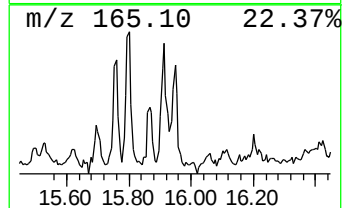
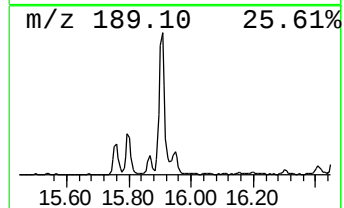
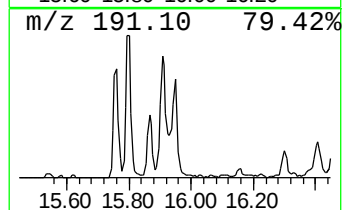
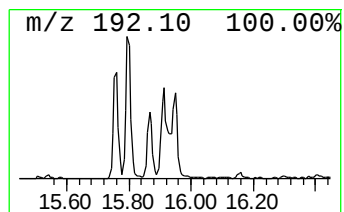
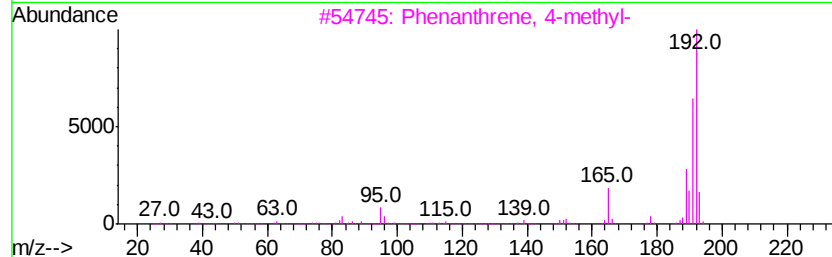
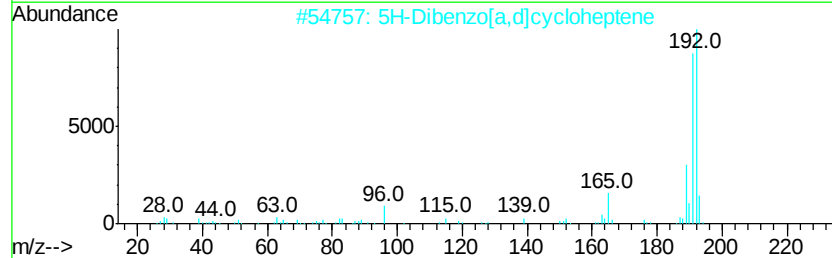
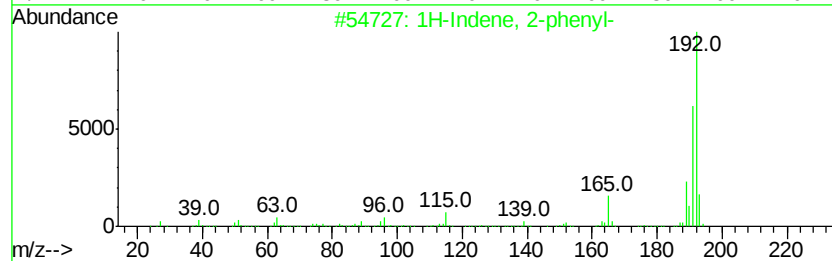
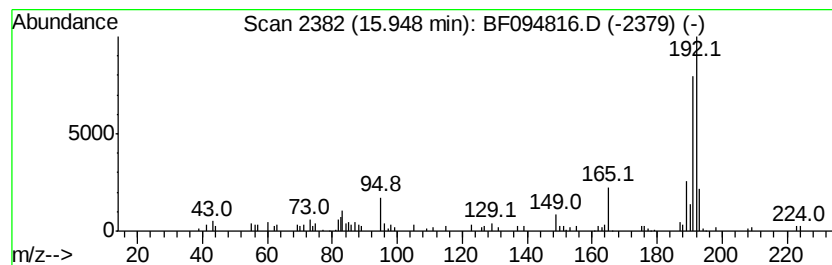
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VNJ-210/72-11940/72-11932

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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 7 1H-Indene, 2-phenyl- Concentration Rank 10

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 15.95     | 4.58 ng                     | 148415 | Phenanthrene-d10 |             | 14.98 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1H-Indene, 2-phenyl-        | 192    | C15H12           | 004505-48-0 | 83    |
| 2         | 5H-Dibenzo[a,d]cycloheptene | 192    | C15H12           | 000256-81-5 | 81    |
| 3         | Phenanthrene, 4-methyl-     | 192    | C15H12           | 000832-64-4 | 81    |
| 4         | Propyne, 1,3-diphenyl-      | 192    | C15H12           | 004980-70-5 | 80    |
| 5         | Anthracene, 9-methyl-       | 192    | C15H12           | 000779-02-2 | 72    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
Data File : BF094816.D  
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Operator : SJ/MA  
Sample : I2920-06 5X  
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ALS Vial : 20 Sample Multiplier: 1

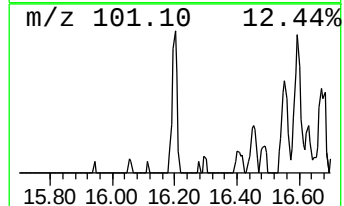
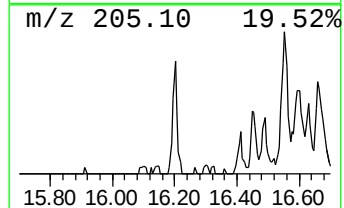
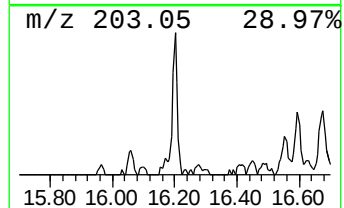
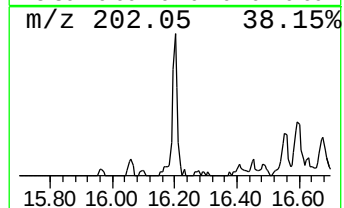
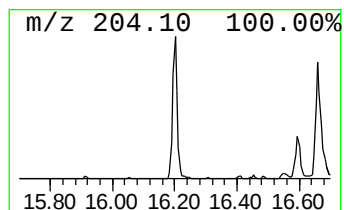
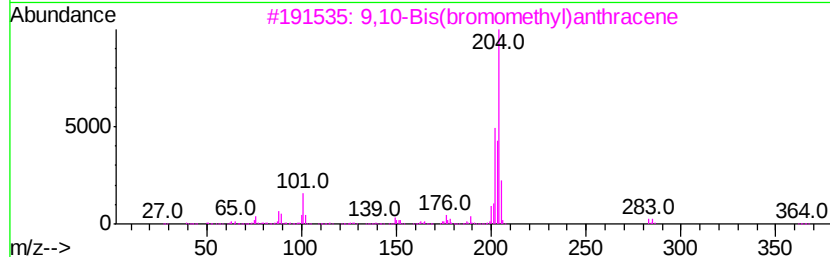
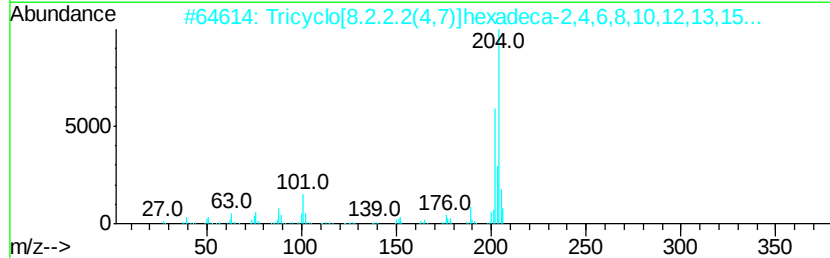
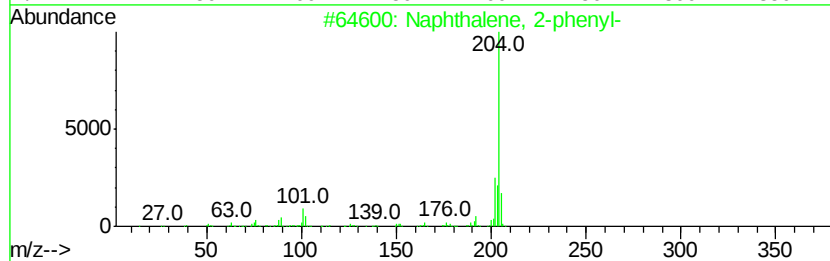
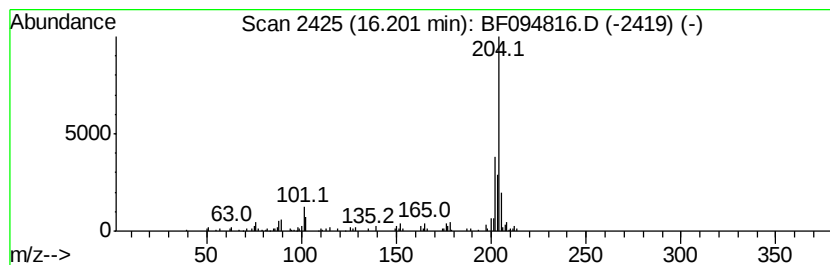
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 16.20     | 4.41 ng                             | 143057 | Phenanthrene-d10 | 14.98       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2 | 86   |
| 2         | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204    | C16H12           | 006572-60-7 | 62   |
| 3         | 9,10-Bis(bromomethyl)anthracene     | 362    | C16H12Br2        | 034373-96-1 | 62   |
| 4         | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408    | C32H24           | 005672-97-9 | 59   |
| 5         | Naphthalene, 1-phenyl-              | 204    | C16H12           | 000605-02-7 | 55   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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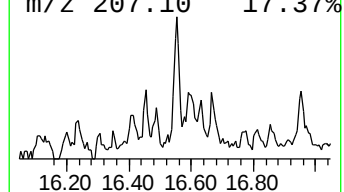
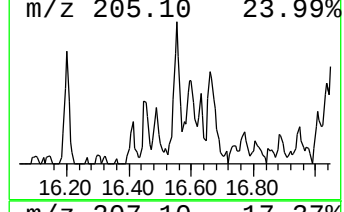
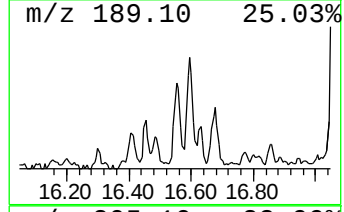
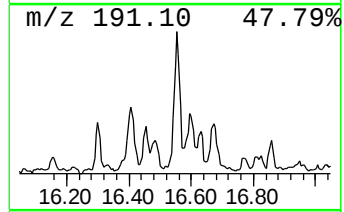
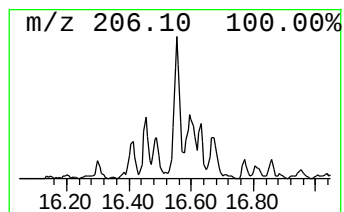
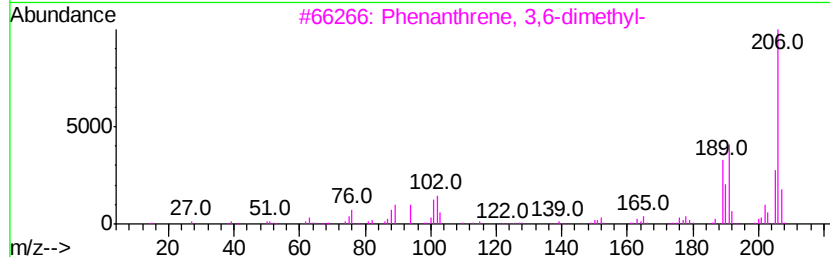
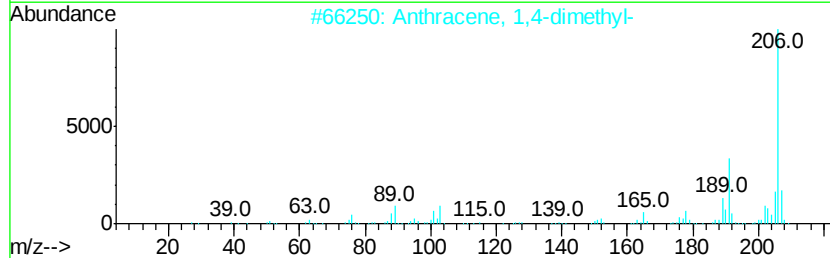
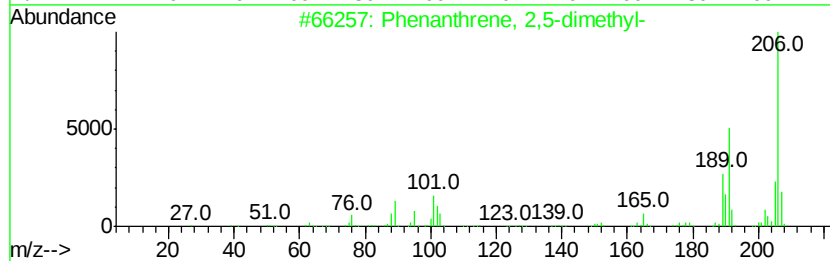
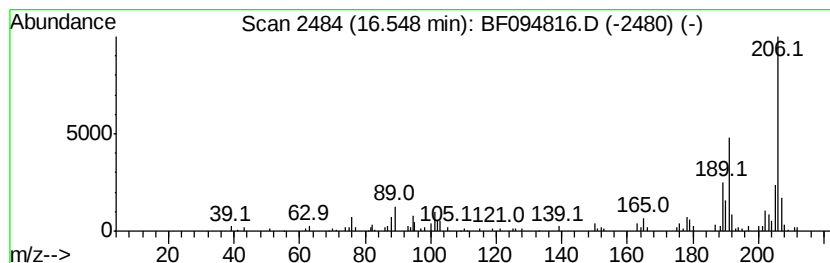
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.55 | 5.11 ng | 165511 | Phenanthrene-d10 | 14.98 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 97   |
| 2       |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 93   |
| 3       |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 93   |
| 4       |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 93   |
| 5       |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
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Sample : I2920-06 5X  
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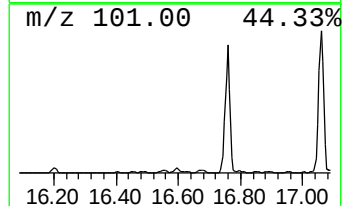
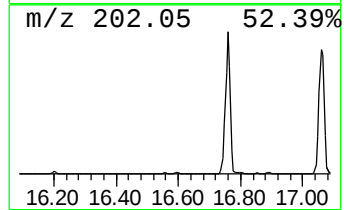
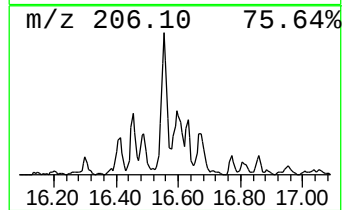
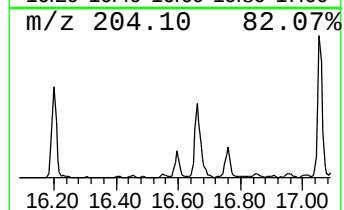
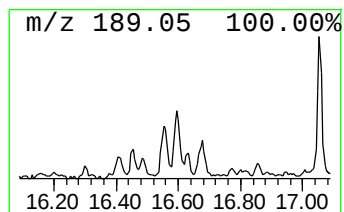
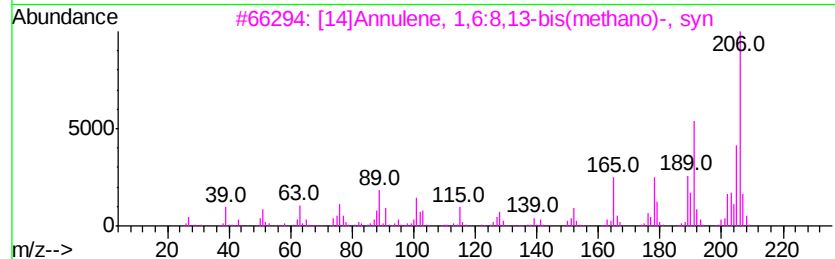
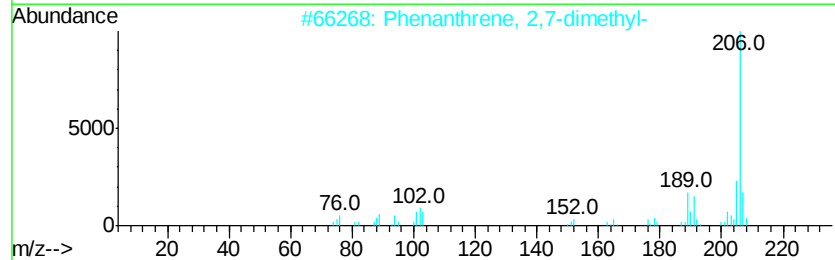
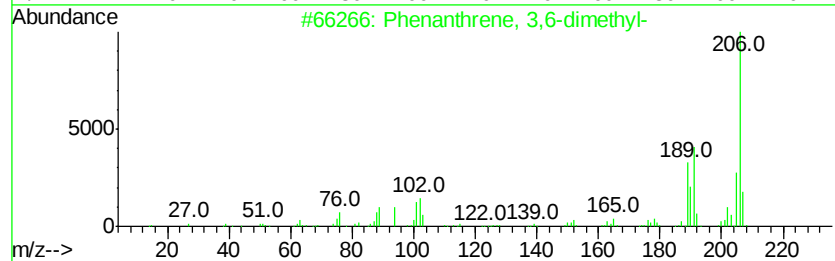
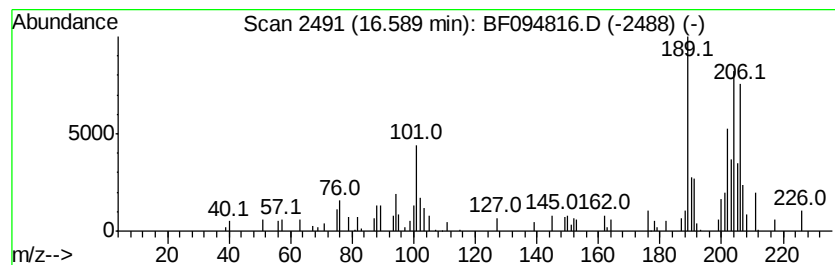
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VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 10 Phenanthrene, 3,6-dimethyl- Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 16.59     | 3.50 ng                             | 113275 | Phenanthrene-d10 | 14.98       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 3,6-dimethyl-         | 206    | C16H14           | 001576-67-6 | 53   |
| 2         | Phenanthrene, 2,7-dimethyl-         | 206    | C16H14           | 001576-69-8 | 50   |
| 3         | [14]Annulene, 1,6:8,13-bis(metha... | 206    | C16H14           | 085385-68-8 | 38   |
| 4         | Naphthalene, 1-phenyl-              | 204    | C16H12           | 000605-02-7 | 35   |
| 5         | Pyrene, 4,5,9,10-tetrahydro-        | 206    | C16H14           | 000781-17-9 | 30   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
Data File : BF094816.D  
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Sample : I2920-06 5X  
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ALS Vial : 20 Sample Multiplier: 1

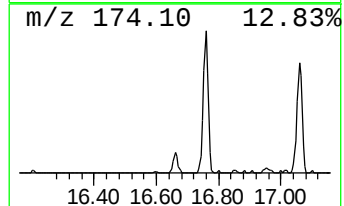
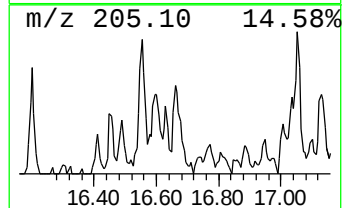
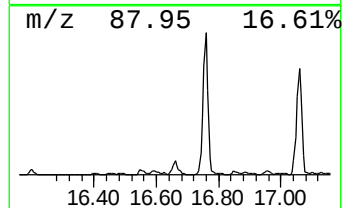
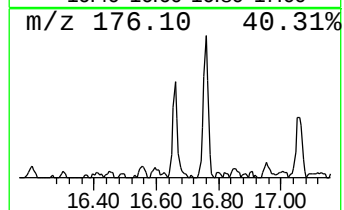
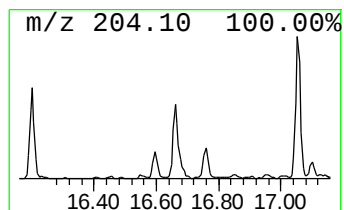
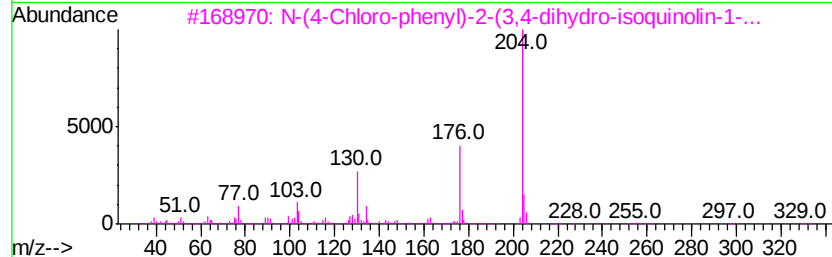
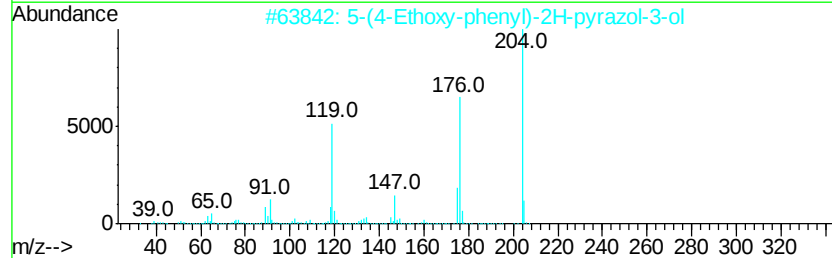
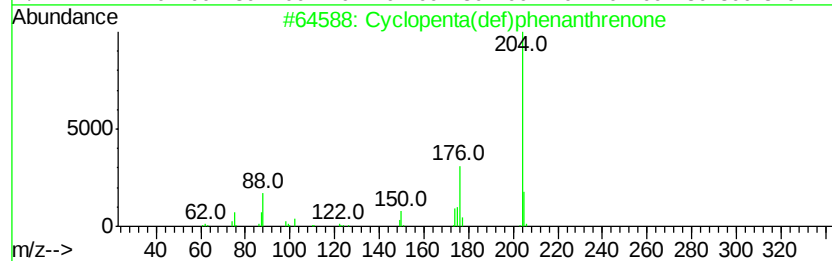
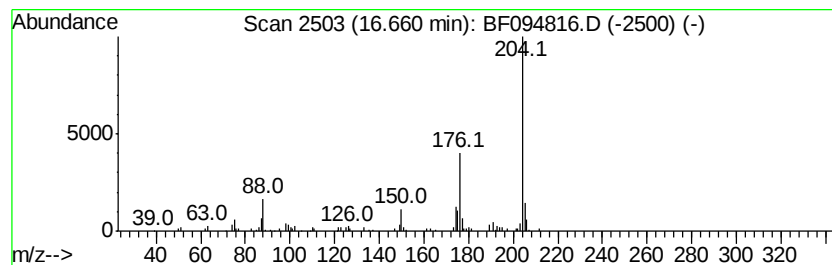
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ClientSampleId :  
VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.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 11 Cyclopenta(def)phenanthrenone Concentration Rank 9

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.         |              |      |
|---------|---------|-------------------------------------|------------------|--------------|--------------|------|
| 16.66   | 4.77 ng | 154460                              | Phenanthrene-d10 | 14.98        |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm      | CAS#         | Qual |
| 1       |         | Cvclopenta(def)phenanthrenone       | 204              | C15H8O       | 005737-13-3  | 89   |
| 2       |         | 5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol | 204              | C11H12N2O2   | 1000278-26-8 | 59   |
| 3       |         | N-(4-Chloro-phenyl)-2-(3,4-dihyd... | 330              | C17H15ClN2OS | 1000296-34-3 | 59   |
| 4       |         | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204              | C14H8N2      | 001591-30-6  | 53   |
| 5       |         | Quinoline, 8-methoxy-5-nitro-       | 204              | C10H8N2O3    | 1000298-88-7 | 46   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

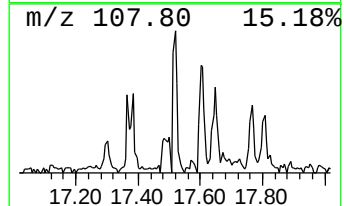
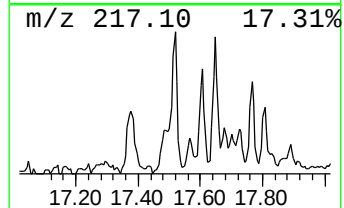
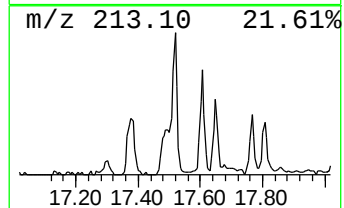
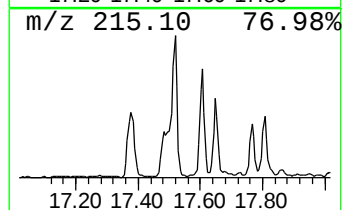
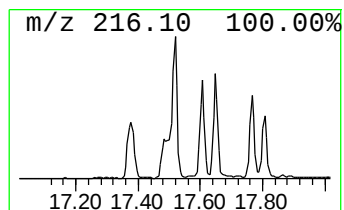
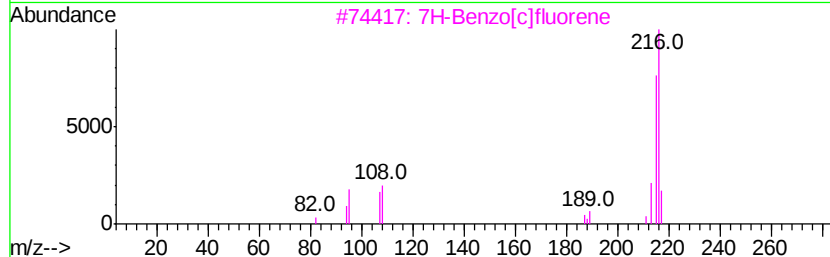
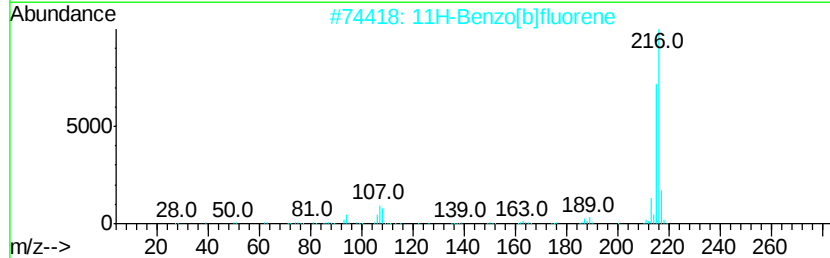
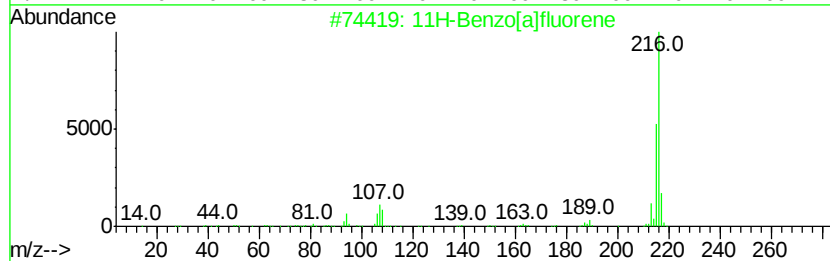
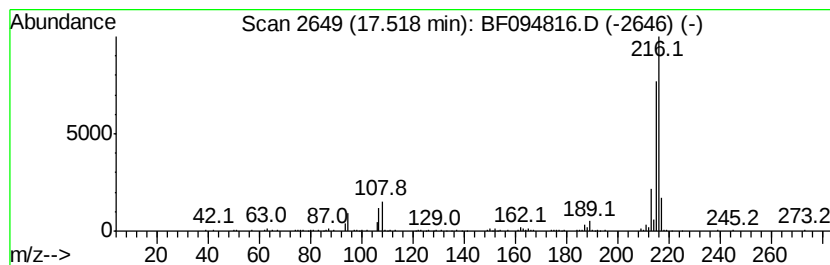
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 12 11H-Benzo[a]fluorene Concentration Rank 13

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.            |
|---------|---------|-------------------------------------|------------------|-----------------|
| 17.52   | 3.55 ng | 310369                              | Chrysene-d12     | 18.65           |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |         | 11H-Benzo[a]fluorene                | 216 C17H12       | 000238-84-6 94  |
| 2       |         | 11H-Benzo[b]fluorene                | 216 C17H12       | 000243-17-4 94  |
| 3       |         | 7H-Benzo[c]fluorene                 | 216 C17H12       | 000205-12-9 81  |
| 4       |         | Fluoranthene, 2-methyl-             | 216 C17H12       | 033543-31-6 81  |
| 5       |         | 6H-Thiazolo[5,4-e]indole, 2,7,8-... | 216 C12H12N2S    | 1000338-32-0 59 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

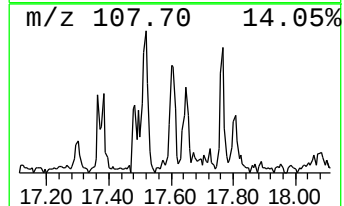
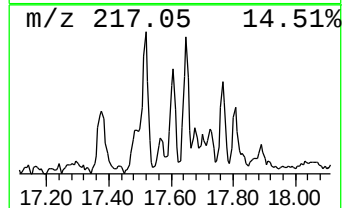
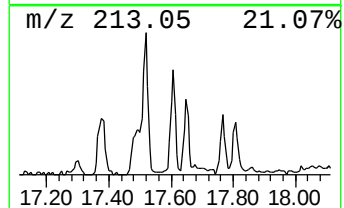
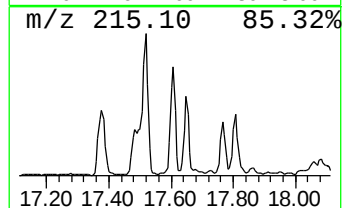
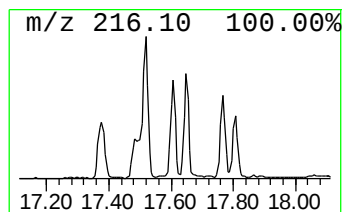
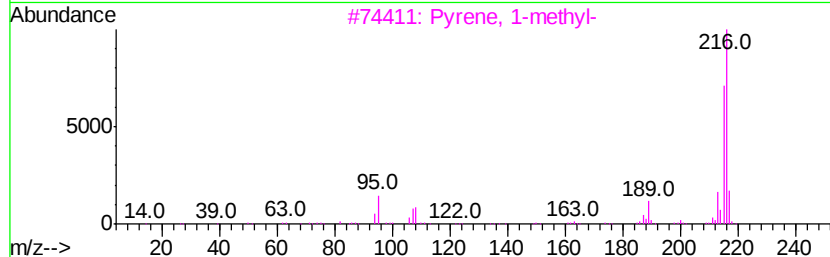
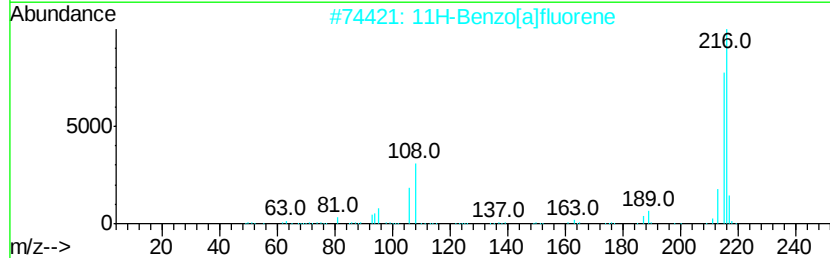
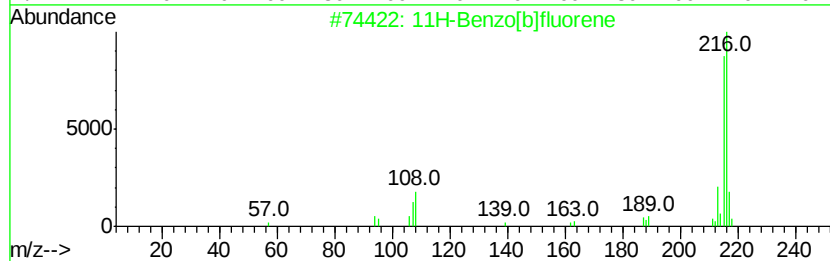
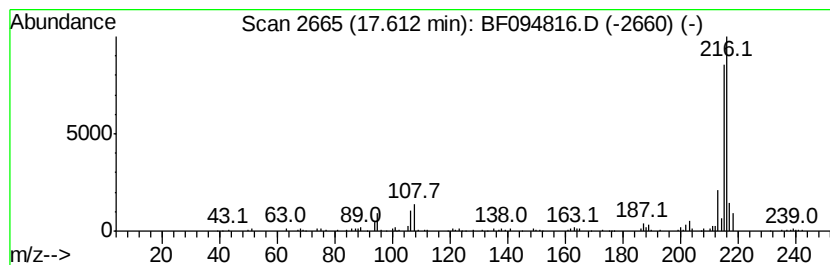
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VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 19

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 17.61     | 2.44 ng                 | 213469 | Chrysene-d12     | 18.65       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | 11H-Benzo[b]fluorene    | 216    | C17H12           | 000243-17-4 | 93   |
| 2         | 11H-Benzo[a]fluorene    | 216    | C17H12           | 000238-84-6 | 87   |
| 3         | Pvrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 83   |
| 4         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 81   |
| 5         | 7H-Benzo[c]fluorene     | 216    | C17H12           | 000205-12-9 | 74   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

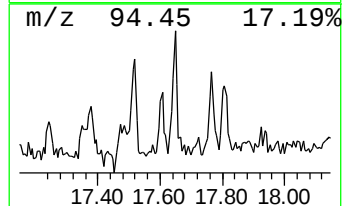
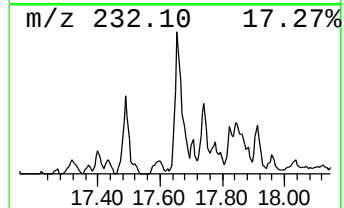
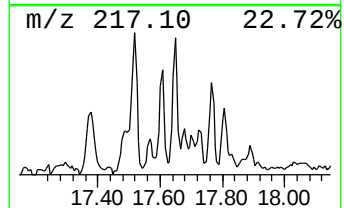
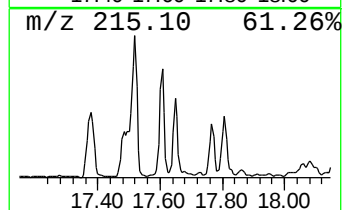
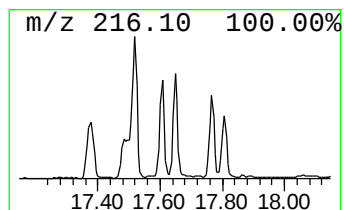
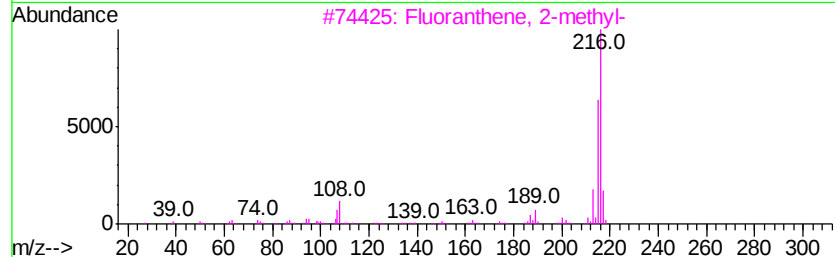
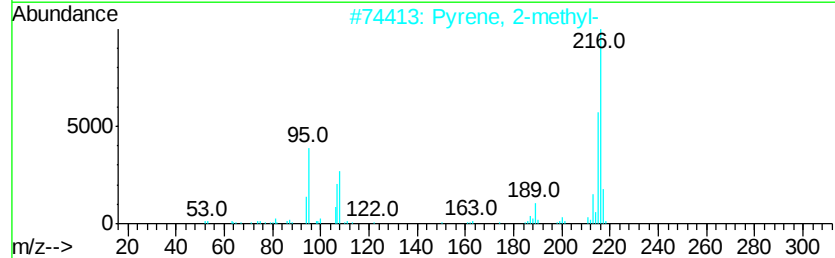
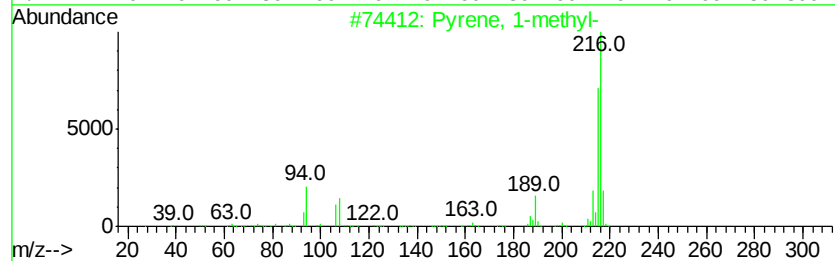
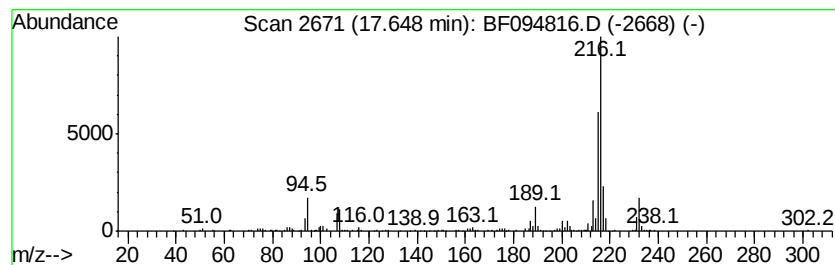
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ClientSampleId :  
VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 14 Pyrene, 1-methyl- Concentration Rank 16

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 17.65   | 3.22 ng | 281459                  | Chrysene-d12     | 18.65          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 97 |
| 2       |         | Pyrene, 2-methyl-       | 216 C17H12       | 003442-78-2 93 |
| 3       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 90 |
| 4       |         | 11H-Benzo[alfluorene    | 216 C17H12       | 000238-84-6 87 |
| 5       |         | Pyrene, 4-methyl-       | 216 C17H12       | 003353-12-6 76 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

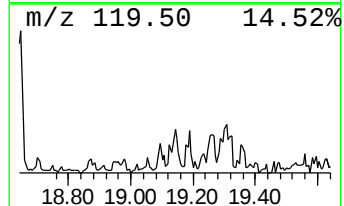
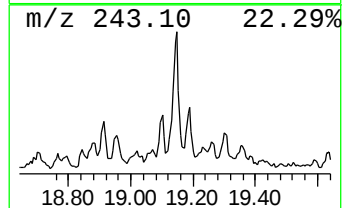
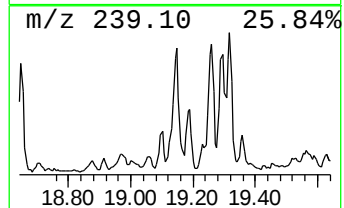
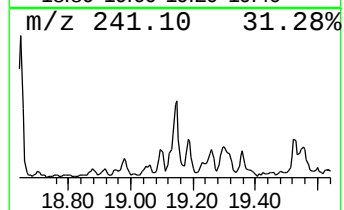
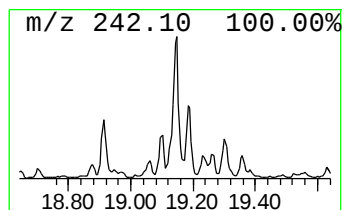
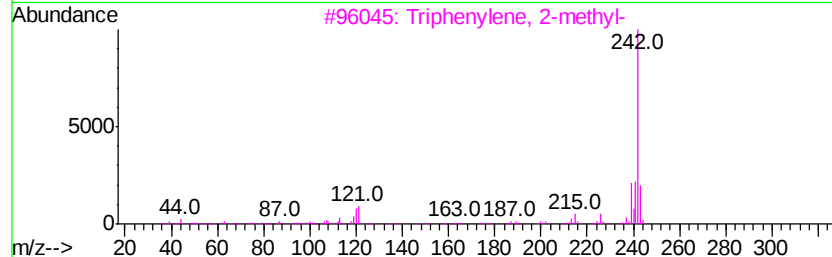
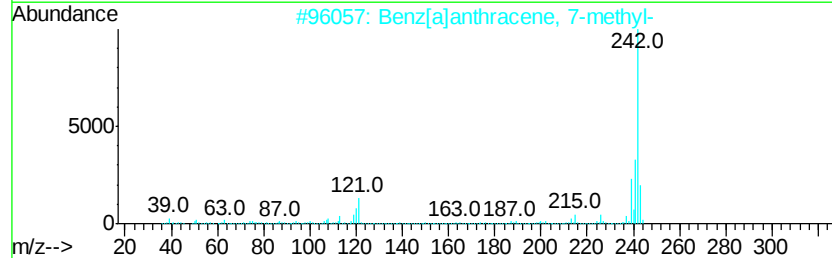
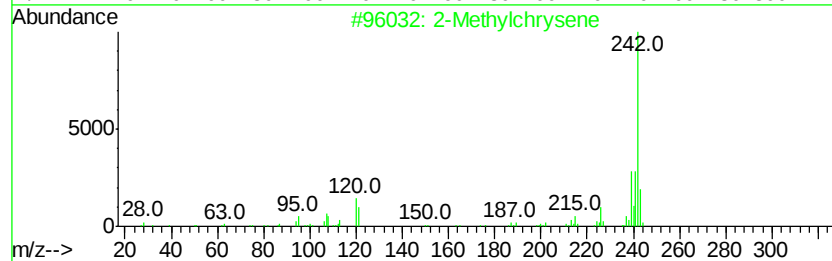
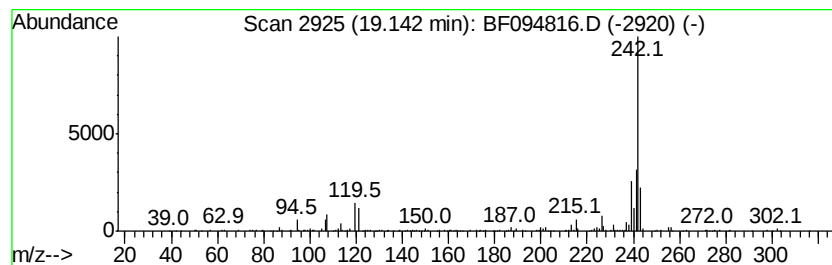
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 2-Methylchrysene Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.14 | 3.27 ng | 285962 | Chrysene-d12     | 18.65 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------------|-----|---------|--------------|------|
| 1    | 5  | 2-Methylchrysene             | 242 | C19H14  | 003351-32-4  | 96   |
| 2    |    | Benz[a]anthracene, 7-methyl- | 242 | C19H14  | 002541-69-7  | 95   |
| 3    |    | Triphenylene, 2-methyl-      | 242 | C19H14  | 001705-84-6  | 95   |
| 4    |    | 1H-Benz[flindene, 2-phenyl-  | 242 | C19H14  | 1000305-22-4 | 93   |
| 5    |    | Benz[a]anthracene, 8-methyl- | 242 | C19H14  | 002381-31-9  | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-210/72-11940/72-11932

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

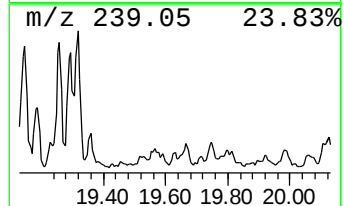
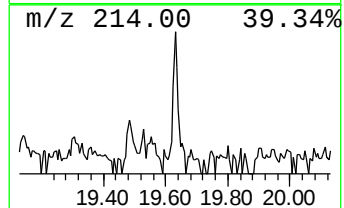
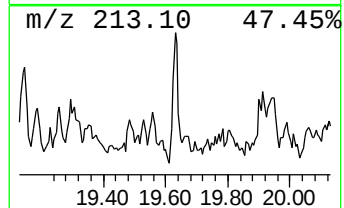
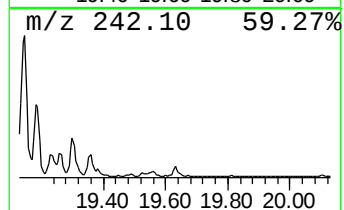
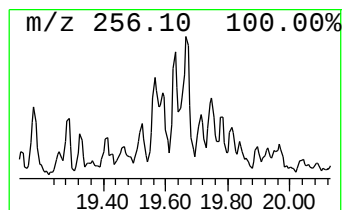
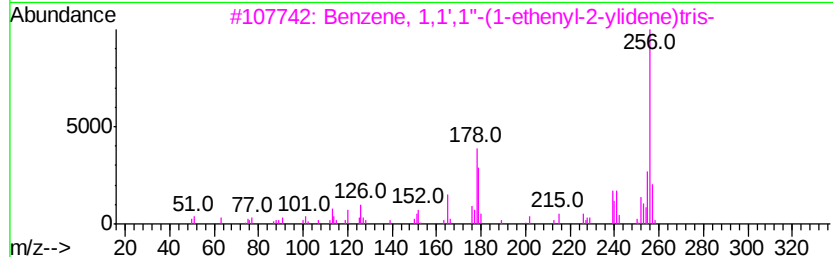
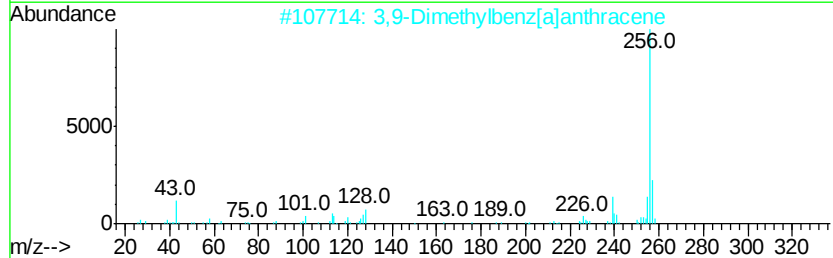
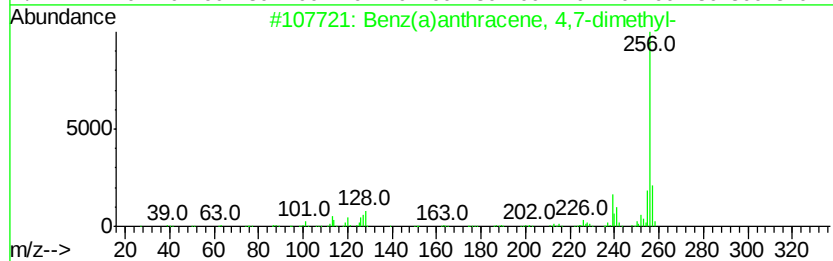
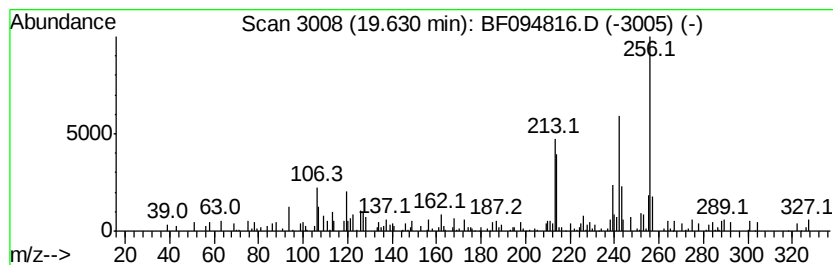
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown19.63 Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.63 | 2.43 ng | 59221 | Perylene-d12     | 20.31 |

| Hit# | of | Tentative ID                           | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Benz(a)anthracene, 4,7-dimethyl-       | 256 | C20H16     | 035187-18-9  | 38   |
| 2    |    | 3,9-Dimethylbenz[ <i>a</i> ]anthracene | 256 | C20H16     | 000316-51-8  | 35   |
| 3    |    | Benzene, 1,1',1''-(1-ethenvl-2-v...    | 256 | C20H16     | 000058-72-0  | 35   |
| 4    |    | 3-Benzofuranone, 6-methoxy-2-[(1...    | 256 | C14H12N2O3 | 1000319-39-9 | 30   |
| 5    |    | Benz(a)anthracene, 8,12-dimethyl-      | 256 | C20H16     | 020627-31-0  | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094816.D  
Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

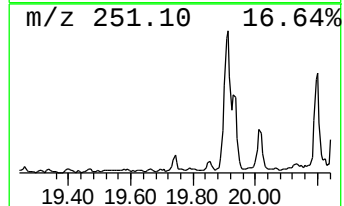
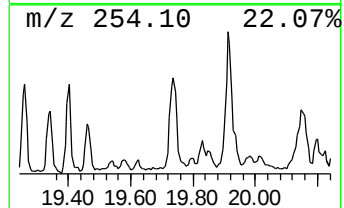
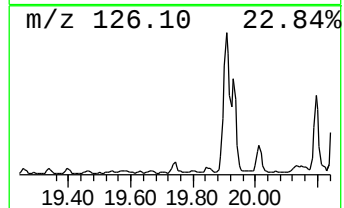
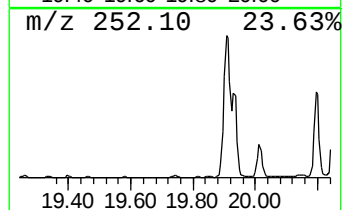
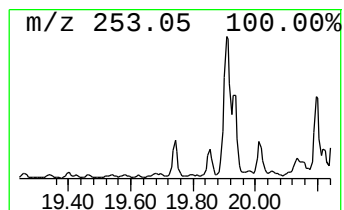
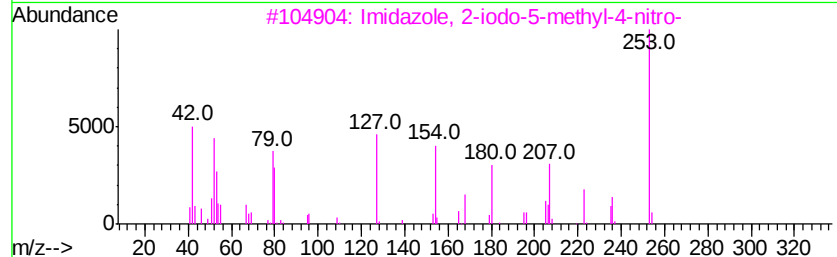
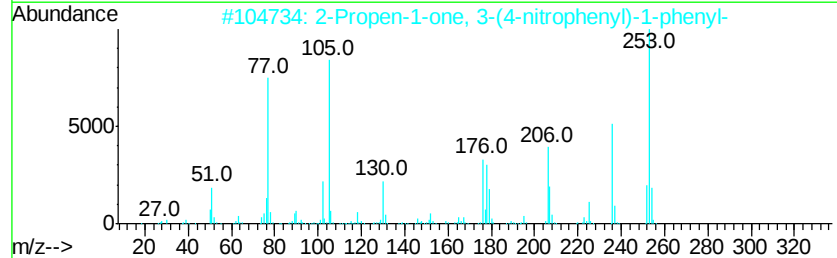
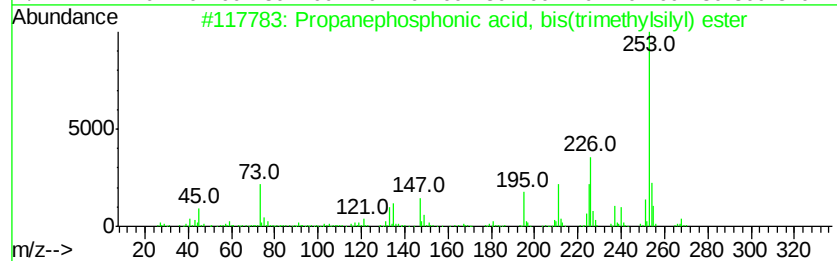
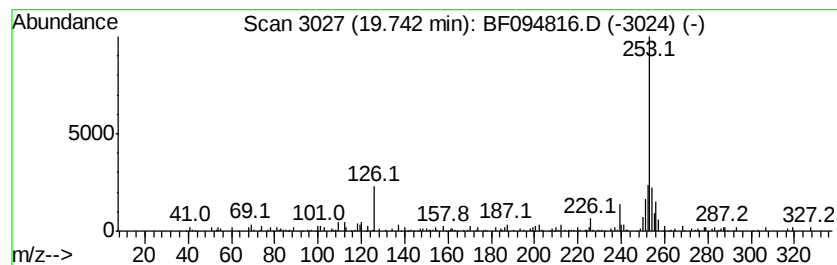
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 Propanephosphonic acid, bis... Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.74 | 3.11 ng | 75678 | Perylene-d12     | 20.31 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Propanephosphonic acid, bis(trim... | 268 | C9H25O3PSi2 | 1000193-07-4 | 50   |
| 2    |    |   | 2-Propen-1-one, 3-(4-nitrophenyl... | 253 | C15H11NO3   | 001222-98-6  | 49   |
| 3    |    |   | Imidazole, 2-iodo-5-methyl-4-nitro- | 253 | C4H4IN3O2   | 149510-86-1  | 41   |
| 4    |    |   | 2-[2-Thienyl]-4-acetyl quinoline    | 253 | C15H11NOS   | 027302-83-6  | 38   |
| 5    |    |   | Benz(a)anthracene-7-carbonitrile    | 253 | C19H11N     | 007476-08-6  | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
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Acq On : 3 May 2017 3:20  
Operator : SJ/MA  
Sample : I2920-06 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

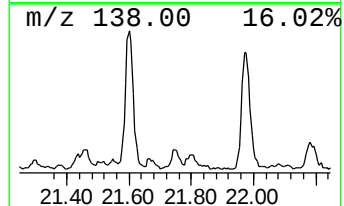
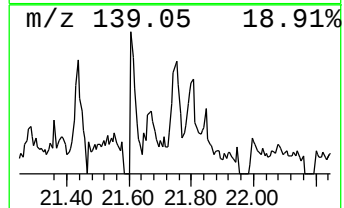
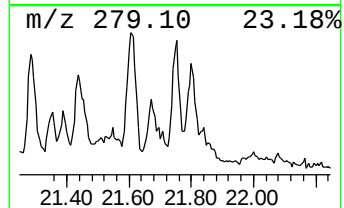
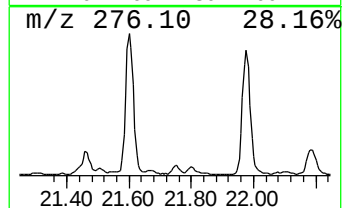
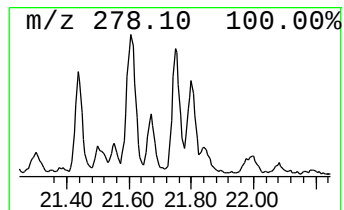
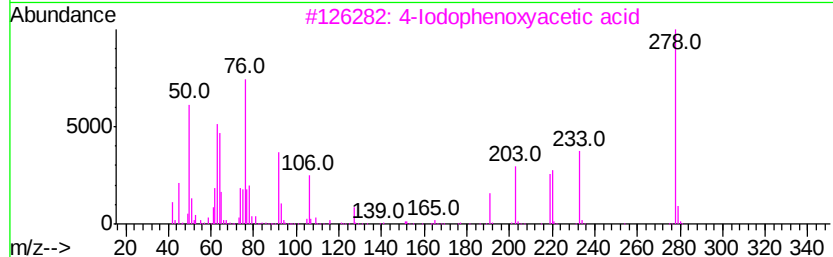
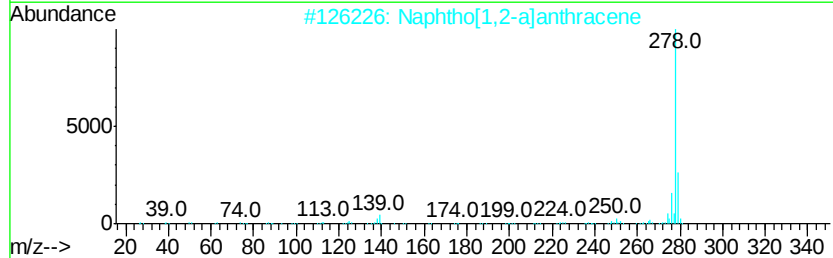
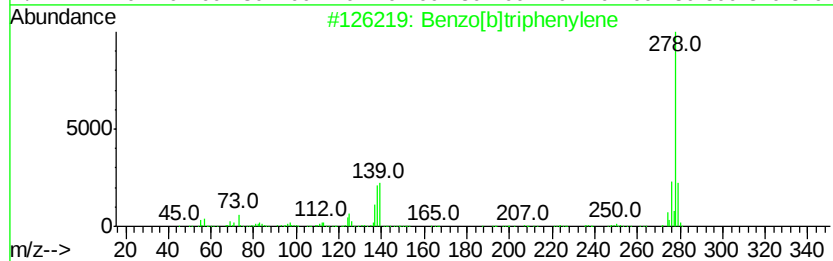
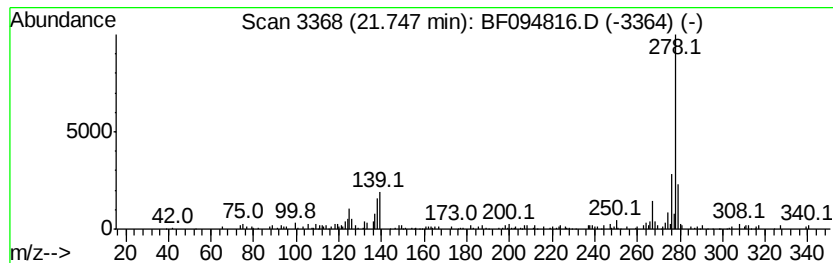
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 Benzo[b]triphenylene Concentration Rank 6

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|--------|------------------|-------------|------|
| 21.75     | 5.69 ng                  | 138740 | Perylene-d12     | 20.31       |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[bltriphenylene     | 278    | C22H14           | 000215-58-7 | 95   |
| 2         | Naphtho[1,2-alanthracene | 278    | C22H14           | 000195-06-2 | 93   |
| 3         | 4-Iodophenoxvetic acid   | 278    | C8H7IO3          | 001878-94-0 | 90   |
| 4         | Benzo[alnaphthacene      | 278    | C22H14           | 000226-88-0 | 89   |
| 5         | Pentaphene               | 278    | C22H14           | 000222-93-5 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
 Data File : BF094816.D  
 Acq On : 3 May 2017 3:20  
 Operator : SJ/MA  
 Sample : I2920-06 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-210/72-11940/72-11932

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 |
| unknown7.39          | 7.39  | 15.9    | ng    | 442369   | 1                     | 7.72  | 555576  | 20.0 |
| Phenanthrene, 2-m... | 15.76 | 4.2     | ng    | 134821   | 4                     | 14.98 | 648167  | 20.0 |
| 4H-Cyclopenta[def... | 15.91 | 10.1    | ng    | 326454   | 4                     | 14.98 | 648167  | 20.0 |
| 1H-Indene, 2-phenyl- | 15.95 | 4.6     | ng    | 148415   | 4                     | 14.98 | 648167  | 20.0 |
| Naphthalene, 2-ph... | 16.20 | 4.4     | ng    | 143057   | 4                     | 14.98 | 648167  | 20.0 |
| Phenanthrene, 2,5... | 16.55 | 5.1     | ng    | 165511   | 4                     | 14.98 | 648167  | 20.0 |
| Phenanthrene, 3,6... | 16.59 | 3.5     | ng    | 113275   | 4                     | 14.98 | 648167  | 20.0 |
| Cyclopenta(def)ph... | 16.66 | 4.8     | ng    | 154460   | 4                     | 14.98 | 648167  | 20.0 |
| 11H-Benzo[a]fluorene | 17.52 | 3.5     | ng    | 310369   | 5                     | 18.65 | 1749920 | 20.0 |
| 11H-Benzo[b]fluorene | 17.61 | 2.4     | ng    | 213469   | 5                     | 18.65 | 1749920 | 20.0 |
| Pyrene, 1-methyl-    | 17.65 | 3.2     | ng    | 281459   | 5                     | 18.65 | 1749920 | 20.0 |
| 2-Methylchrysene     | 19.14 | 3.3     | ng    | 285962   | 5                     | 18.65 | 1749920 | 20.0 |
| unknown19.63         | 19.63 | 2.4     | ng    | 59221    | 6                     | 20.31 | 487386  | 20.0 |
| Propanephosphonic... | 19.74 | 3.1     | ng    | 75678    | 6                     | 20.31 | 487386  | 20.0 |
| Benzo[b]triphenylene | 21.75 | 5.7     | ng    | 138740   | 6                     | 20.31 | 487386  | 20.0 |