

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
 Data File : BP019607.D  
 Acq On : 08 Feb 2024 13:31  
 Operator : MA/JU  
 Sample : P1375-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP-1

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:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP019607.D\data.ms

| 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         | 5.475       | 398           | 406         | 416          | rBV      | 1013225        | 1515173       | 9.29%           | 0.936%        |
| 2         | 7.069       | 668           | 677         | 687          | rBV      | 1001699        | 1657796       | 10.17%          | 1.024%        |
| 3         | 7.905       | 812           | 819         | 827          | rBV      | 274834         | 444730        | 2.73%           | 0.275%        |
| 4         | 9.069       | 1009          | 1017        | 1026         | rBV      | 639025         | 1084672       | 6.65%           | 0.670%        |
| 5         | 10.699      | 1287          | 1294        | 1299         | rBV      | 349827         | 616156        | 3.78%           | 0.381%        |
| 6         | 10.752      | 1299          | 1303        | 1310         | rVB      | 114914         | 188675        | 1.16%           | 0.117%        |
| 7         | 13.163      | 1704          | 1713        | 1724         | rBV      | 1738922        | 2619818       | 16.07%          | 1.618%        |
| 8         | 14.257      | 1891          | 1899        | 1908         | rVB      | 191730         | 295346        | 1.81%           | 0.182%        |
| 9         | 14.534      | 1938          | 1946        | 1952         | rBV      | 554372         | 882722        | 5.41%           | 0.545%        |
| 10        | 14.598      | 1952          | 1957        | 1965         | rVB      | 372922         | 561576        | 3.44%           | 0.347%        |
| 11        | 14.934      | 2006          | 2014        | 2023         | rBV      | 304593         | 513811        | 3.15%           | 0.317%        |
| 12        | 15.587      | 2118          | 2125        | 2130         | rBV      | 482280         | 741043        | 4.54%           | 0.458%        |
| 13        | 15.881      | 2170          | 2175        | 2185         | rVB      | 156859         | 259976        | 1.59%           | 0.161%        |
| 14        | 16.028      | 2191          | 2200        | 2208         | rVV      | 1627241        | 2483989       | 15.23%          | 1.534%        |
| 15        | 16.575      | 2285          | 2293        | 2294         | rBV3     | 109064         | 190848        | 1.17%           | 0.118%        |
| 16        | 16.822      | 2327          | 2335        | 2338         | rBV3     | 88970          | 171715        | 1.05%           | 0.106%        |
| 17        | 16.945      | 2351          | 2356        | 2363         | rVB      | 414401         | 620267        | 3.80%           | 0.383%        |
| 18        | 17.022      | 2363          | 2369        | 2376         | rBV2     | 95105          | 221280        | 1.36%           | 0.137%        |
| 19        | 17.110      | 2379          | 2384        | 2393         | rVB      | 456158         | 712871        | 4.37%           | 0.440%        |
| 20        | 17.292      | 2409          | 2415        | 2418         | rBV      | 667228         | 1040518       | 6.38%           | 0.643%        |
| 21        | 17.340      | 2418          | 2423        | 2429         | rVV      | 7394087        | 11268475      | 69.11%          | 6.960%        |
| 22        | 17.428      | 2429          | 2438        | 2443         | rVV      | 1624664        | 2399105       | 14.71%          | 1.482%        |
| 23        | 17.487      | 2443          | 2448        | 2453         | rVB3     | 159253         | 250169        | 1.53%           | 0.155%        |
| 24        | 17.698      | 2480          | 2484        | 2500         | rVB      | 705473         | 1089746       | 6.68%           | 0.673%        |
| 25        | 17.816      | 2500          | 2504        | 2509         | rVV2     | 171506         | 248864        | 1.53%           | 0.154%        |
| 26        | 17.869      | 2509          | 2513        | 2521         | rVB4     | 199252         | 330012        | 2.02%           | 0.204%        |
| 27        | 18.010      | 2533          | 2537        | 2545         | rVB      | 97276          | 171847        | 1.05%           | 0.106%        |
| 28        | 18.163      | 2553          | 2563        | 2566         | rBV      | 829876         | 1347759       | 8.27%           | 0.832%        |
| 29        | 18.204      | 2566          | 2570        | 2578         | rVV2     | 1558506        | 2389545       | 14.65%          | 1.476%        |
| 30        | 18.287      | 2578          | 2584        | 2588         | rVV      | 412838         | 574312        | 3.52%           | 0.355%        |
| 31        | 18.345      | 2588          | 2594        | 2598         | rVV2     | 1313639        | 2315551       | 14.20%          | 1.430%        |
| 32        | 18.381      | 2598          | 2600        | 2606         | rVB      | 612164         | 757475        | 4.65%           | 0.468%        |
| 33        | 18.457      | 2609          | 2613        | 2617         | rVV2     | 152961         | 253346        | 1.55%           | 0.156%        |
| 34        | 18.498      | 2617          | 2620        | 2624         | rVV2     | 148916         | 230091        | 1.41%           | 0.142%        |
| 35        | 18.645      | 2640          | 2645        | 2649         | rBV      | 701821         | 970908        | 5.95%           | 0.600%        |
| 36        | 18.686      | 2649          | 2652        | 2658         | rVB      | 865628         | 1111865       | 6.82%           | 0.687%        |

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 Sample : P1375-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP-1

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:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 37 | 18.881 | 2682 | 2685 | 2689 | rVB3 | 176363   | 216220   | 1.33%   | 0.134%  |
| 38 | 18.928 | 2689 | 2693 | 2696 | rVB  | 147173   | 163393   | 1.00%   | 0.101%  |
| 39 | 18.969 | 2696 | 2700 | 2704 | rVB3 | 179737   | 232404   | 1.43%   | 0.144%  |
| 40 | 19.051 | 2708 | 2714 | 2719 | rBV2 | 459657   | 911267   | 5.59%   | 0.563%  |
| 41 | 19.104 | 2719 | 2723 | 2727 | rVV2 | 256053   | 502841   | 3.08%   | 0.311%  |
| 42 | 19.186 | 2732 | 2737 | 2744 | rVB2 | 567747   | 907010   | 5.56%   | 0.560%  |
| 43 | 19.310 | 2750 | 2758 | 2763 | rBV  | 11469303 | 16235160 | 99.56%  | 10.028% |
| 44 | 19.398 | 2770 | 2773 | 2776 | rVV  | 218651   | 302949   | 1.86%   | 0.187%  |
| 45 | 19.434 | 2776 | 2779 | 2785 | rVB2 | 277807   | 462451   | 2.84%   | 0.286%  |
| 46 | 19.498 | 2785 | 2790 | 2793 | rBV3 | 191371   | 352950   | 2.16%   | 0.218%  |
| 47 | 19.539 | 2793 | 2797 | 2801 | rVB  | 384188   | 513206   | 3.15%   | 0.317%  |
| 48 | 19.663 | 2807 | 2818 | 2824 | rBV  | 9281804  | 16306193 | 100.00% | 10.072% |
| 49 | 19.722 | 2824 | 2828 | 2835 | rVB3 | 424913   | 704084   | 4.32%   | 0.435%  |
| 50 | 19.833 | 2841 | 2847 | 2848 | rBV  | 531075   | 735152   | 4.51%   | 0.454%  |
| 51 | 19.857 | 2848 | 2851 | 2855 | rVV  | 3182807  | 4255526  | 26.10%  | 2.629%  |
| 52 | 19.886 | 2855 | 2856 | 2863 | rVB  | 552243   | 619685   | 3.80%   | 0.383%  |
| 53 | 19.969 | 2864 | 2870 | 2877 | rBV2 | 563739   | 1424098  | 8.73%   | 0.880%  |
| 54 | 20.028 | 2877 | 2880 | 2883 | rVV  | 147693   | 165628   | 1.02%   | 0.102%  |
| 55 | 20.104 | 2887 | 2893 | 2895 | rBV5 | 443081   | 823840   | 5.05%   | 0.509%  |
| 56 | 20.139 | 2895 | 2899 | 2903 | rVB  | 875456   | 1310142  | 8.03%   | 0.809%  |
| 57 | 20.239 | 2911 | 2916 | 2919 | rBV  | 460073   | 575799   | 3.53%   | 0.356%  |
| 58 | 20.292 | 2919 | 2925 | 2929 | rVV2 | 759789   | 1265996  | 7.76%   | 0.782%  |
| 59 | 20.328 | 2929 | 2931 | 2935 | rVB  | 152816   | 184740   | 1.13%   | 0.114%  |
| 60 | 20.375 | 2935 | 2939 | 2943 | rVB3 | 136142   | 174045   | 1.07%   | 0.108%  |
| 61 | 20.428 | 2944 | 2948 | 2952 | rBV  | 427229   | 569104   | 3.49%   | 0.352%  |
| 62 | 20.475 | 2952 | 2956 | 2960 | rVV  | 453390   | 601226   | 3.69%   | 0.371%  |
| 63 | 20.716 | 2987 | 2997 | 3000 | rBV8 | 201902   | 544752   | 3.34%   | 0.336%  |
| 64 | 20.786 | 3006 | 3009 | 3013 | rVB  | 138013   | 167343   | 1.03%   | 0.103%  |
| 65 | 20.869 | 3019 | 3023 | 3030 | rVB  | 992543   | 1381967  | 8.48%   | 0.854%  |
| 66 | 21.033 | 3044 | 3051 | 3054 | rBV2 | 890344   | 1646214  | 10.10%  | 1.017%  |
| 67 | 21.069 | 3054 | 3057 | 3060 | rVV  | 876724   | 1140524  | 6.99%   | 0.704%  |
| 68 | 21.110 | 3060 | 3064 | 3069 | rVV2 | 925189   | 1734989  | 10.64%  | 1.072%  |
| 69 | 21.163 | 3069 | 3073 | 3083 | rVB2 | 1110002  | 1709503  | 10.48%  | 1.056%  |
| 70 | 21.269 | 3084 | 3091 | 3100 | rBV2 | 303651   | 801239   | 4.91%   | 0.495%  |
| 71 | 21.375 | 3100 | 3109 | 3114 | rVV3 | 5737740  | 10396879 | 63.76%  | 6.422%  |
| 72 | 21.428 | 3114 | 3118 | 3127 | rVV  | 4749314  | 6904188  | 42.34%  | 4.265%  |
| 73 | 21.510 | 3128 | 3132 | 3134 | rVV4 | 133673   | 187851   | 1.15%   | 0.116%  |
| 74 | 21.545 | 3134 | 3138 | 3144 | rVV  | 587520   | 936567   | 5.74%   | 0.578%  |
| 75 | 21.604 | 3145 | 3148 | 3152 | rVV5 | 178335   | 374724   | 2.30%   | 0.231%  |
| 76 | 21.663 | 3155 | 3158 | 3161 | rVV  | 321147   | 419398   | 2.57%   | 0.259%  |

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 Sample : P1375-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP-1

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:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 77 | 21.716 | 3161 | 3167 | 3172 | rVV2 | 510205  | 937037  | 5.75%  | 0.579% |
| 78 | 21.763 | 3172 | 3175 | 3179 | rVB2 | 191430  | 235474  | 1.44%  | 0.145% |
| 79 | 21.963 | 3203 | 3209 | 3214 | rVB  | 663017  | 1077639 | 6.61%  | 0.666% |
| 80 | 22.022 | 3215 | 3219 | 3225 | rVB2 | 421321  | 676063  | 4.15%  | 0.418% |
| 81 | 22.175 | 3241 | 3245 | 3248 | rBV  | 354439  | 518509  | 3.18%  | 0.320% |
| 82 | 22.210 | 3248 | 3251 | 3257 | rVB3 | 316532  | 488860  | 3.00%  | 0.302% |
| 83 | 22.286 | 3258 | 3264 | 3274 | rVB4 | 289479  | 657816  | 4.03%  | 0.406% |
| 84 | 22.480 | 3293 | 3297 | 3302 | rBV2 | 202837  | 331051  | 2.03%  | 0.204% |
| 85 | 22.786 | 3343 | 3349 | 3362 | rVB2 | 301193  | 952052  | 5.84%  | 0.588% |
| 86 | 23.080 | 3390 | 3399 | 3403 | rBV  | 3378289 | 8506339 | 52.17% | 5.254% |
| 87 | 23.257 | 3423 | 3429 | 3435 | rBV  | 580440  | 1032851 | 6.33%  | 0.638% |
| 88 | 23.404 | 3448 | 3454 | 3457 | rBV2 | 244602  | 525344  | 3.22%  | 0.324% |
| 89 | 23.598 | 3480 | 3487 | 3497 | rVB  | 1943134 | 4404588 | 27.01% | 2.721% |
| 90 | 23.704 | 3497 | 3505 | 3513 | rBV  | 2941632 | 6173047 | 37.86% | 3.813% |
| 91 | 23.804 | 3514 | 3522 | 3526 | rVV  | 611402  | 1416756 | 8.69%  | 0.875% |
| 92 | 23.857 | 3527 | 3531 | 3540 | rVB  | 883630  | 1916312 | 11.75% | 1.184% |
| 93 | 24.757 | 3680 | 3684 | 3693 | rVB2 | 136814  | 313889  | 1.92%  | 0.194% |
| 94 | 26.339 | 3941 | 3953 | 3966 | rVB2 | 1444878 | 4757140 | 29.17% | 2.938% |
| 95 | 26.745 | 4015 | 4022 | 4030 | rBV2 | 175870  | 531242  | 3.26%  | 0.328% |
| 96 | 27.110 | 4073 | 4084 | 4101 | rVB  | 1088577 | 3863022 | 23.69% | 2.386% |
| 97 | 27.504 | 4144 | 4151 | 4174 | rVB4 | 285773  | 1187542 | 7.28%  | 0.734% |

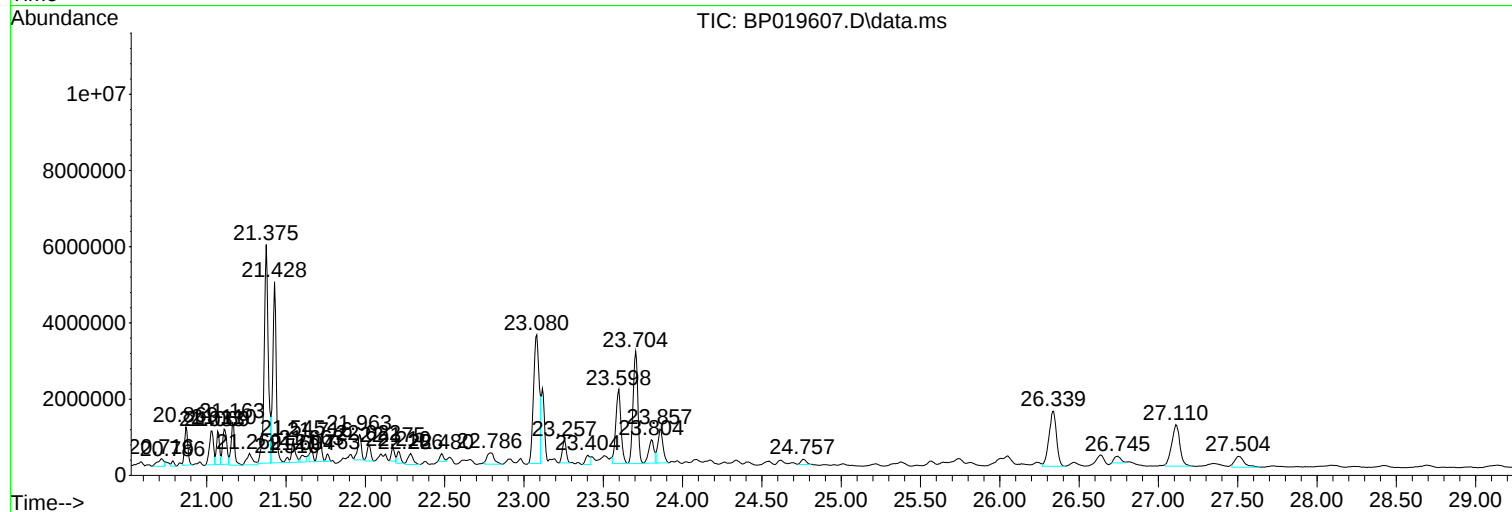
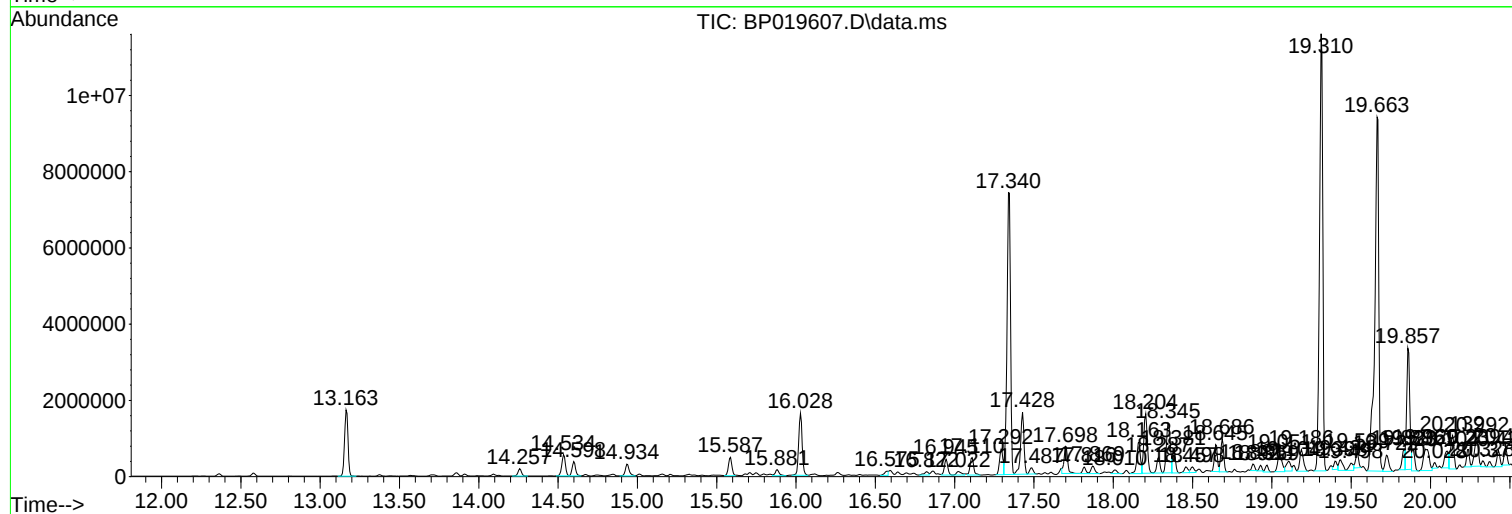
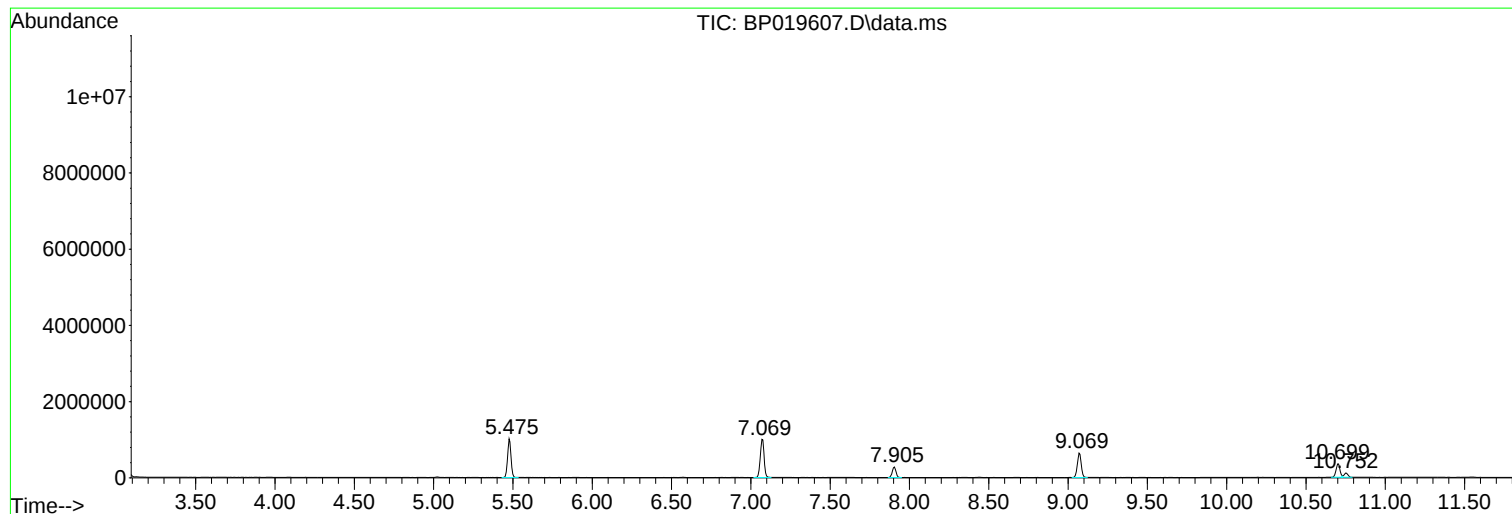
Sum of corrected areas: 161895872

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

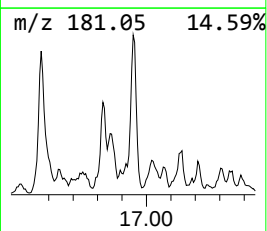
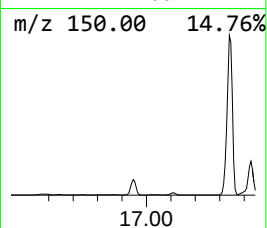
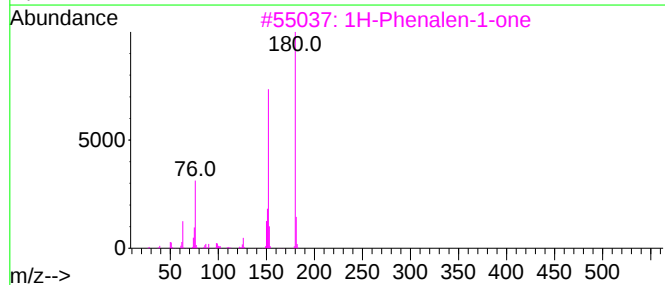
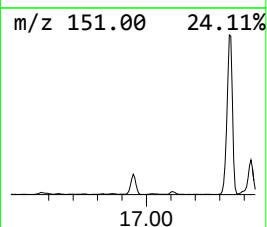
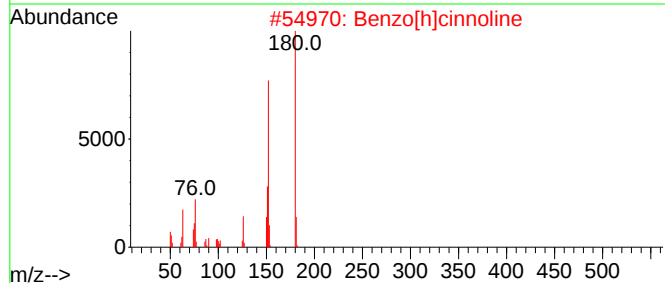
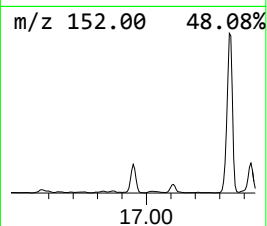
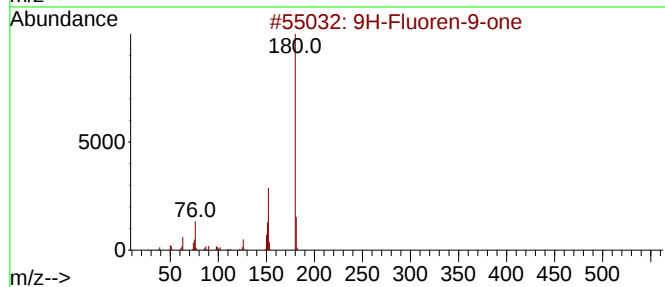
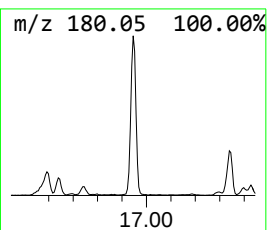
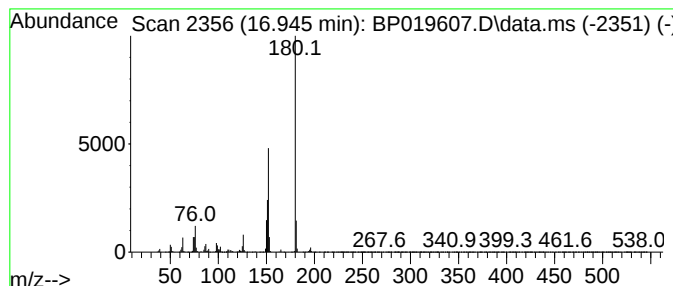
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 9H-Fluoren-9-one Concentration Rank 15

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.   |
|-----------|-----------------------------|--------|------------------|-------------|--------|
| 16.945    | 11.92 ng                    | 620267 | Phenanthrene-d10 |             | 17.292 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual   |
| 1         | 9H-Fluoren-9-one            | 180    | C13H8O           | 000486-25-9 | 97     |
| 2         | Benzo[h]cinnoline           | 180    | C12H8N2          | 000230-31-9 | 91     |
| 3         | 1H-Phenalen-1-one           | 180    | C13H8O           | 000548-39-0 | 86     |
| 4         | Phenanthrene, 9,10-dihydro- | 180    | C14H12           | 000776-35-2 | 50     |
| 5         | Benzo(f)quinoxaline         | 180    | C12H8N2          | 000230-33-1 | 47     |



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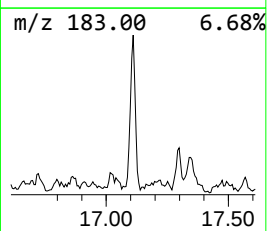
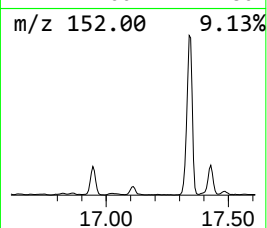
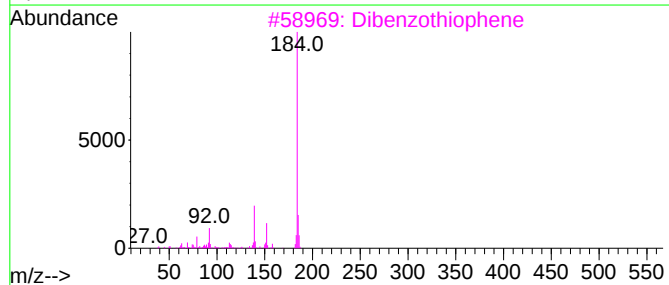
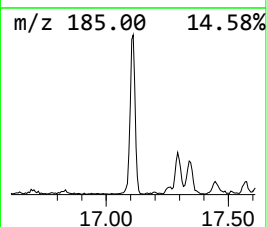
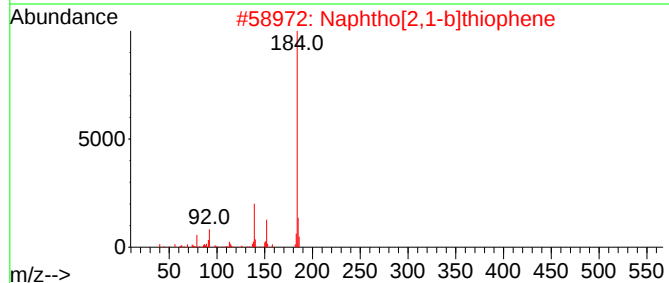
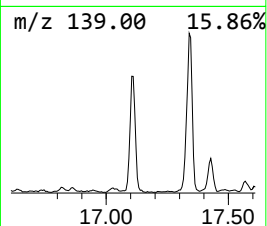
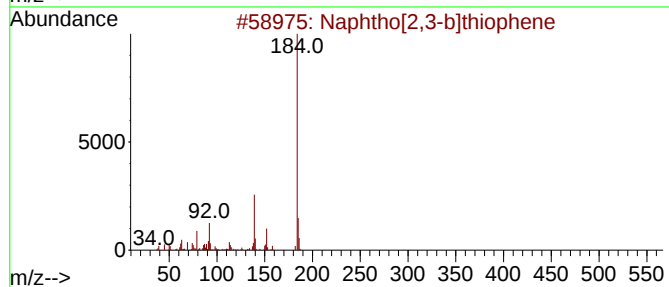
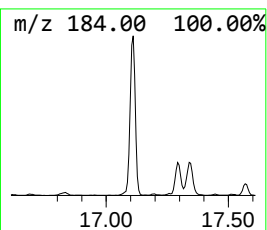
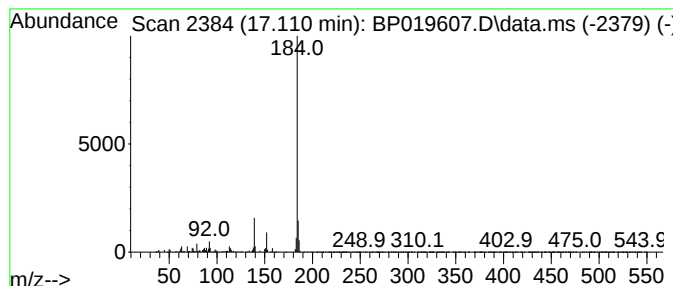
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Naphtho[2,3-b]thiophene Concentration Rank 13

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 17.110 | 13.70 ng | 712871 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 95   |
| 2    |    |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 95   |
| 3    |    |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 95   |
| 4    |    |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 95   |
| 5    |    |   | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

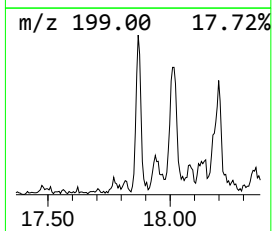
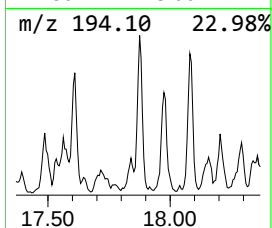
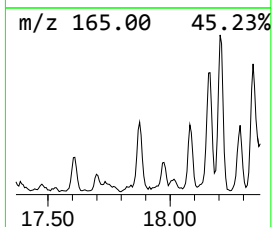
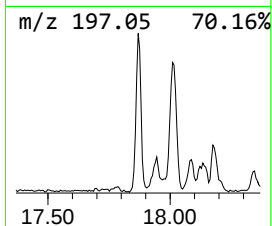
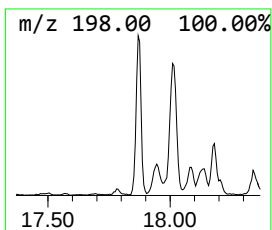
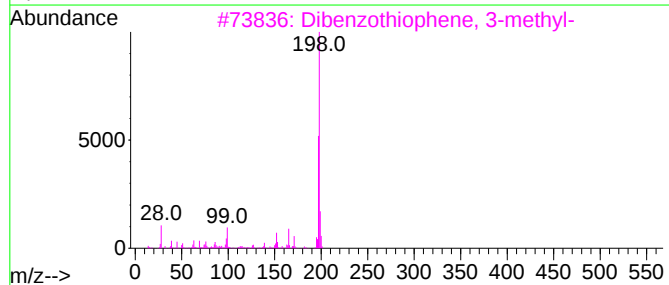
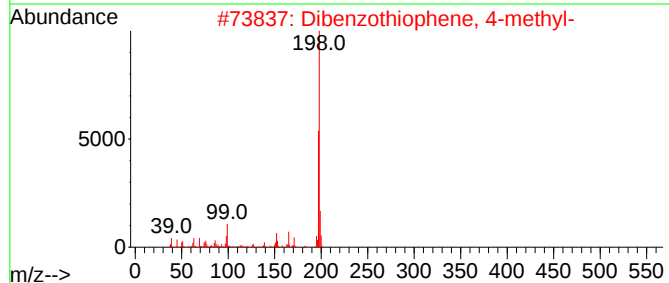
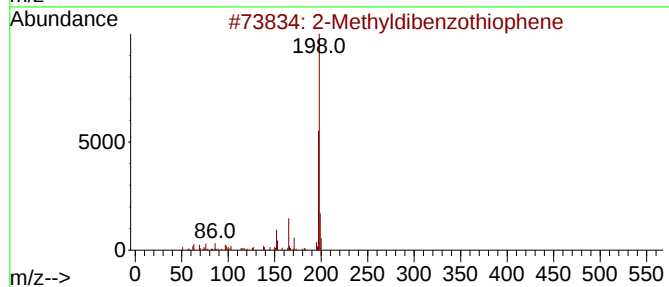
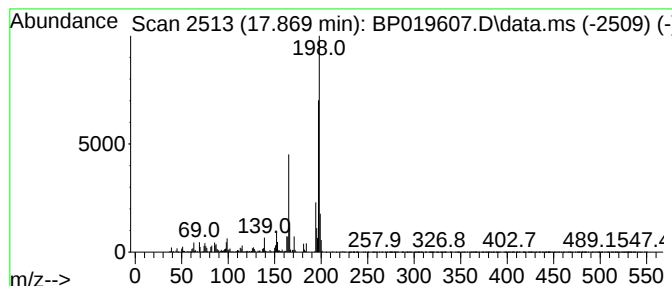
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Methyldibenzothiophene Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 17.869 | 6.34 ng | 330012 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | 2-Methyldibenzothiophene    | 198 | C13H10S | 1000383-55-1 | 70   |
| 2    |    |   | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5  | 70   |
| 3    |    |   | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3  | 64   |
| 4    |    |   | 1-Methyldibenzothiophene    | 198 | C13H10S | 031317-07-4  | 59   |
| 5    |    |   | Thioxanthene                | 198 | C13H10S | 000261-31-4  | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

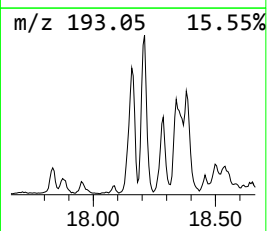
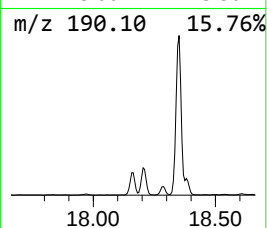
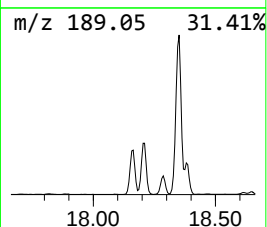
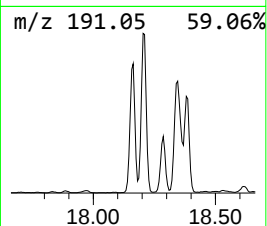
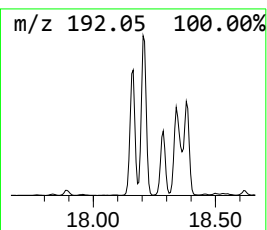
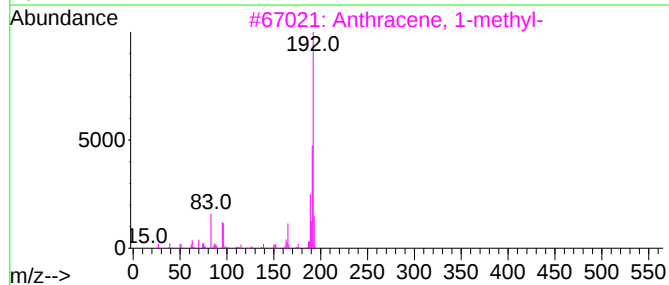
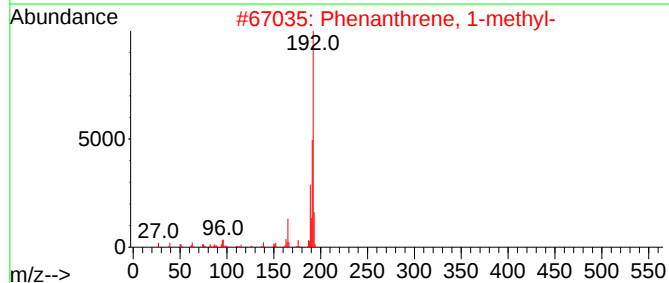
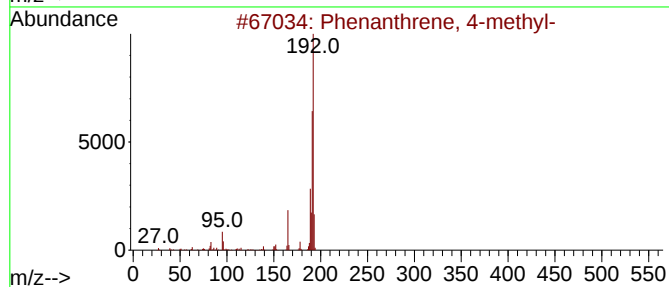
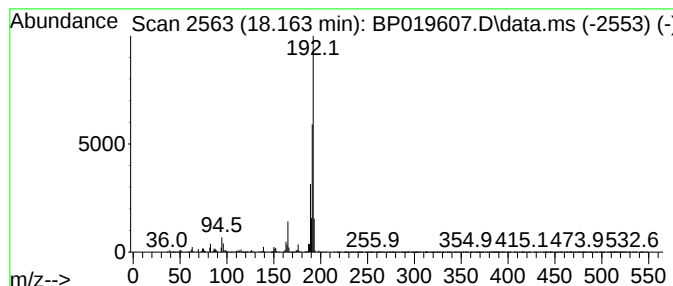
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Phenanthrene, 4-methyl- Concentration Rank 5

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 18.163 | 25.91 ng | 1347760 | Phenanthrene-d10 | 17.292 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 94   |
| 2    |      | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 93   |
| 3    |      | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |
| 4    |      | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 93   |
| 5    |      | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

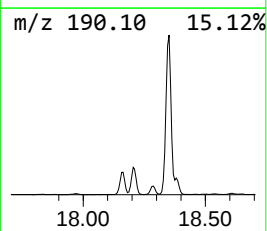
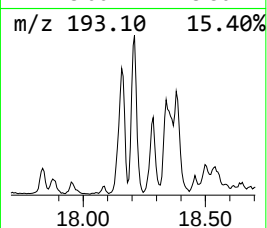
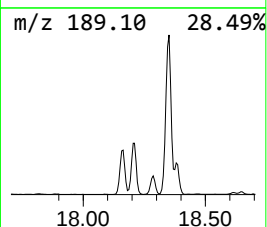
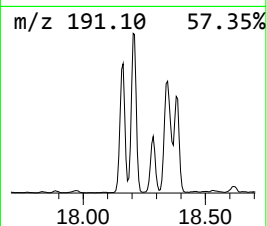
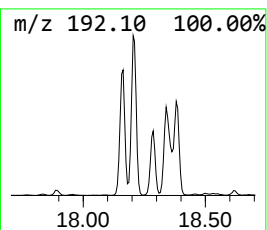
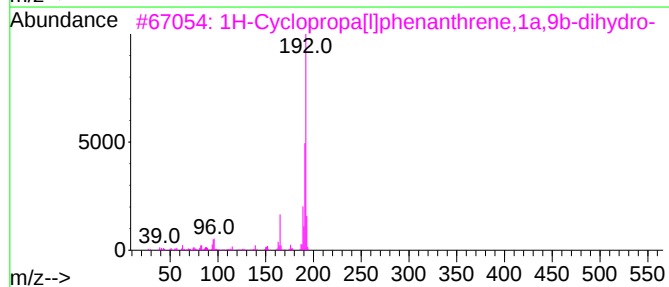
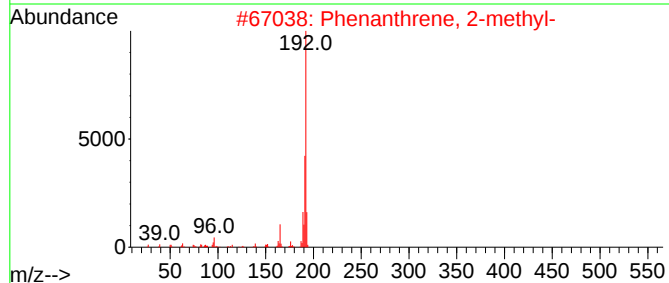
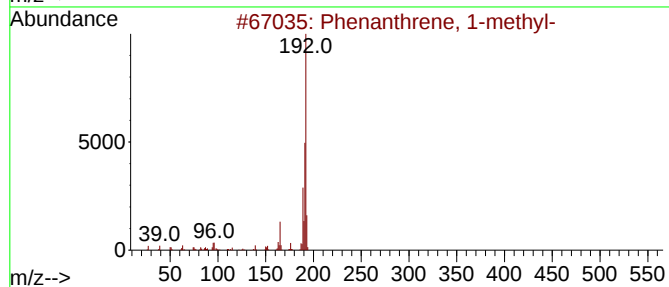
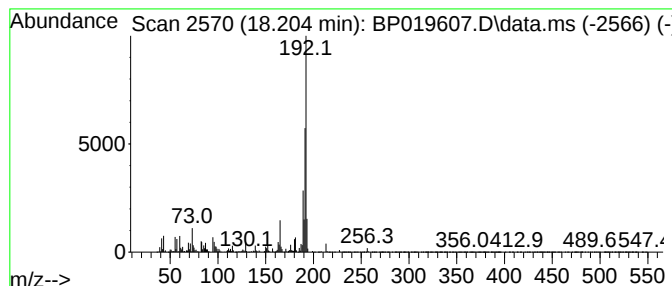
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 2

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 18.204 | 45.93 ng | 2389550 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    |   | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 4    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |
| 5    |    |   | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

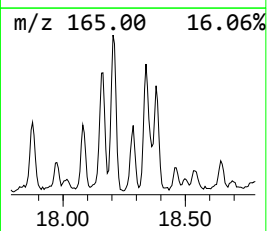
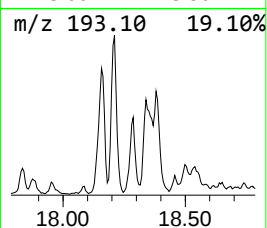
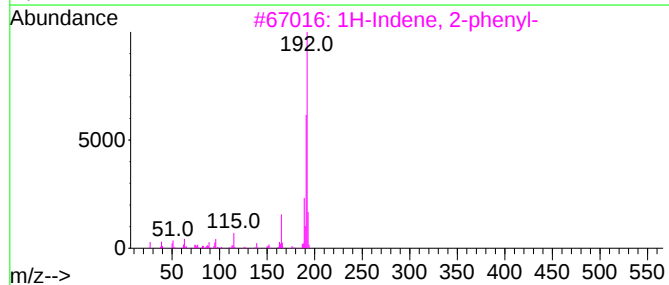
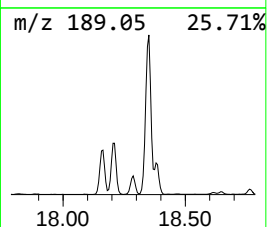
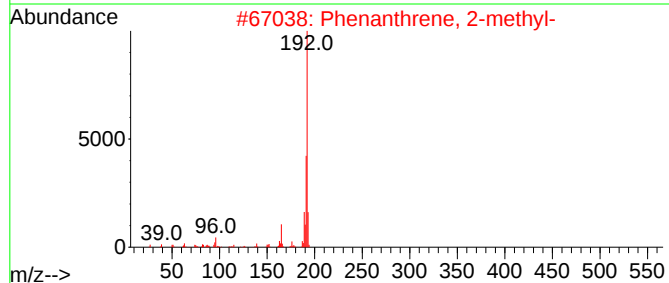
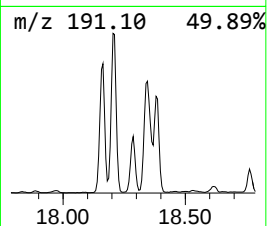
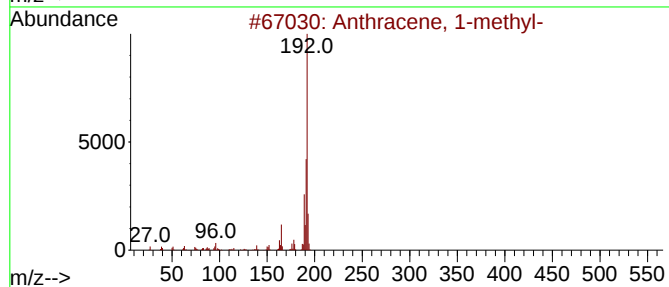
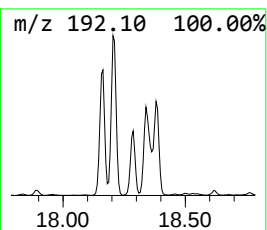
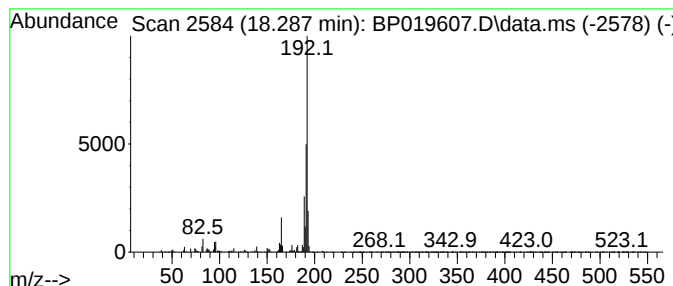
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Anthracene, 1-methyl- Concentration Rank 16

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 18.287 | 11.04 ng | 574312 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 95   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 3    |    |   | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 94   |
| 4    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 94   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

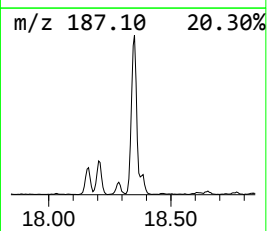
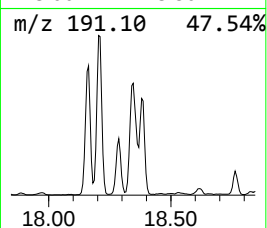
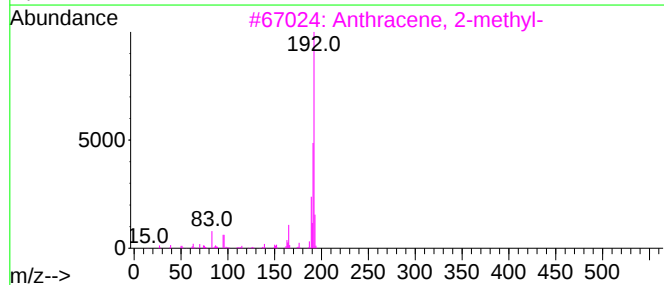
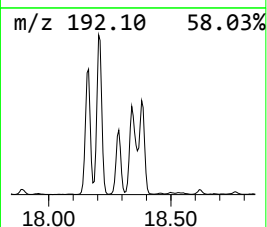
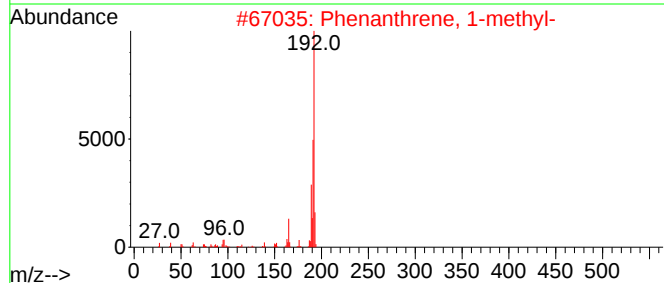
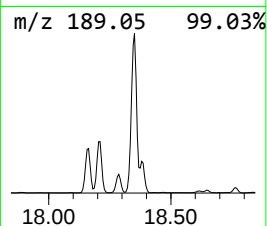
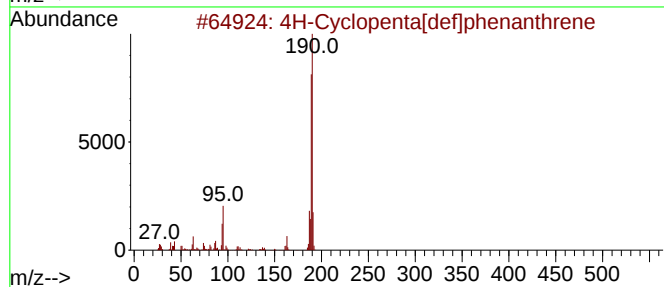
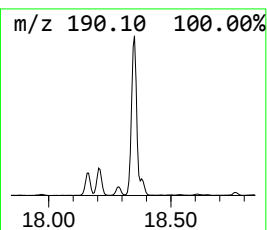
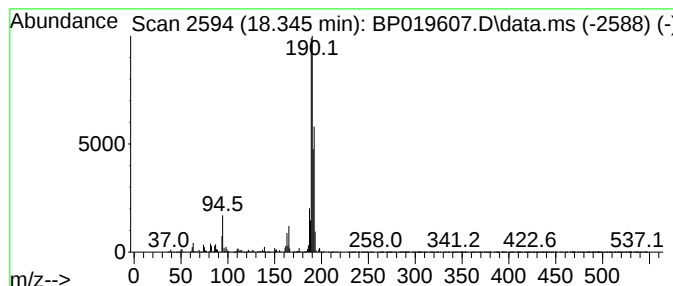
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.    | EstConc  | Area                               | Relative to ISTD |         |             | R.T.   |
|---------|----------|------------------------------------|------------------|---------|-------------|--------|
| 18.345  | 44.51 ng | 2315550                            | Phenanthrene-d10 |         |             | 17.292 |
| Hit# of | 5        | Tentative ID                       | MW               | MolForm | CAS#        | Qual   |
| 1       |          | 4H-Cyclopenta[def]phenanthrene     | 190              | C15H10  | 000203-64-5 | 60     |
| 2       |          | Phenanthrene, 1-methyl-            | 192              | C15H12  | 000832-69-9 | 25     |
| 3       |          | Anthracene, 2-methyl-              | 192              | C15H12  | 000613-12-7 | 25     |
| 4       |          | 5H-Dibenzo[a,d]cycloheptene        | 192              | C15H12  | 000256-81-5 | 25     |
| 5       |          | Benzene, 1,1'-(1,2-propadienyld... | 192              | C15H12  | 014251-57-1 | 22     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

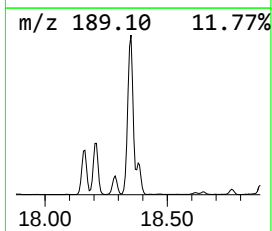
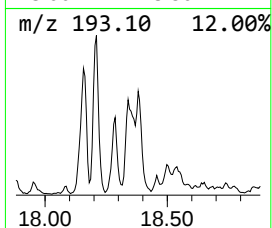
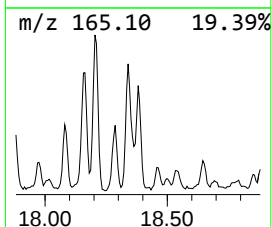
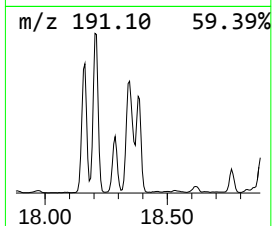
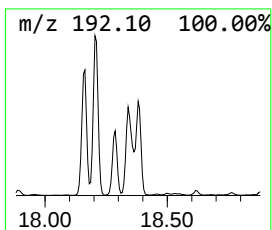
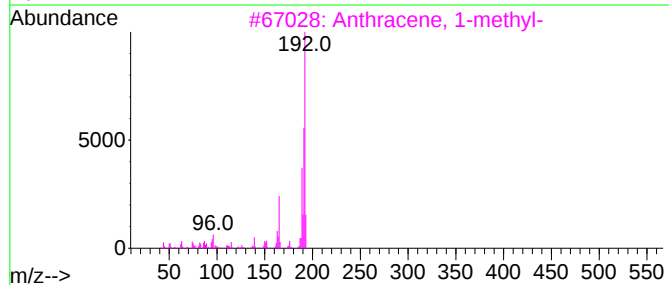
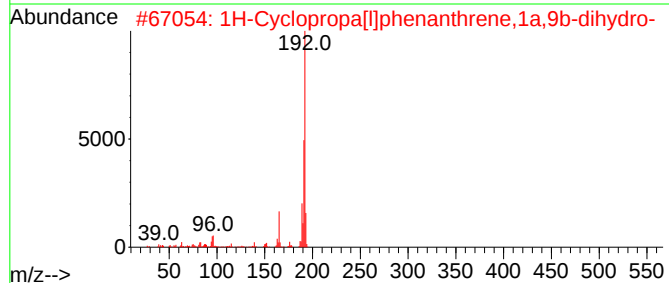
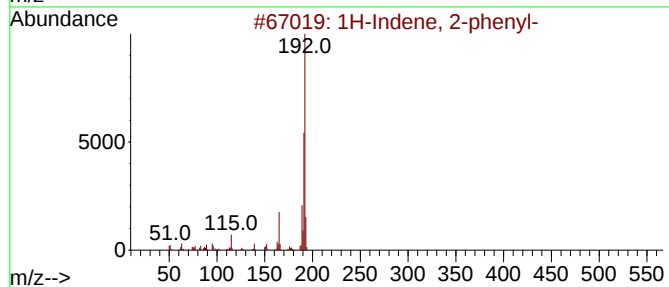
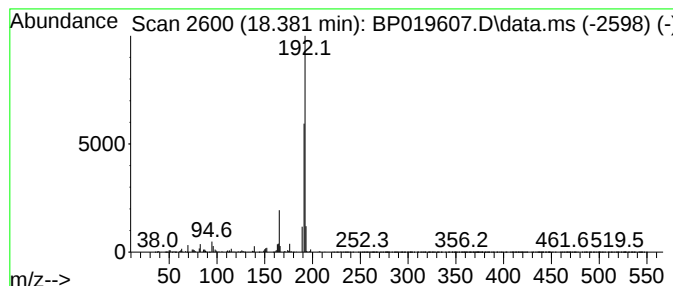
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 1H-Indene, 2-phenyl- Concentration Rank 12

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 18.381 | 14.56 ng | 757475 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 86   |
| 2    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 83   |
| 3    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 83   |
| 4    |    |   | 1a,9b-Dihydro-1H-cyclopropa[a]an... | 192 | C15H12  | 006109-24-6 | 80   |
| 5    |    |   | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12  | 000256-81-5 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

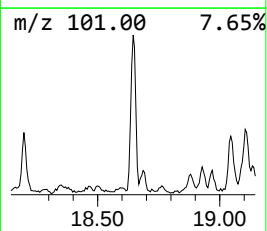
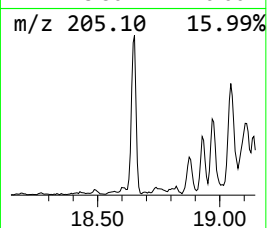
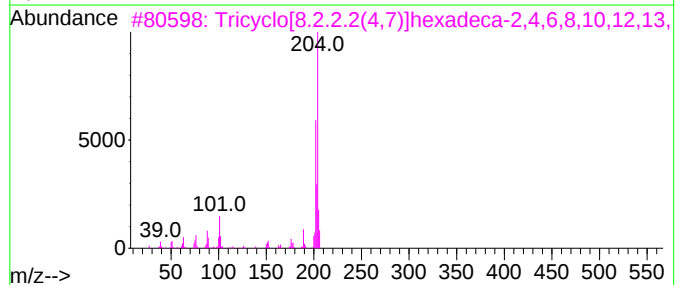
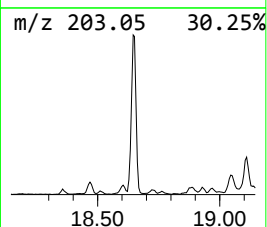
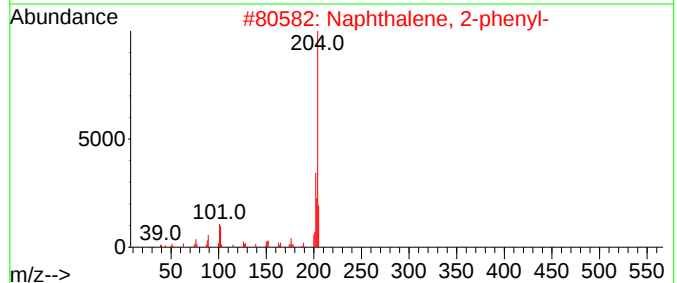
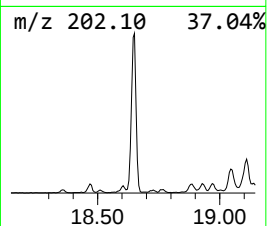
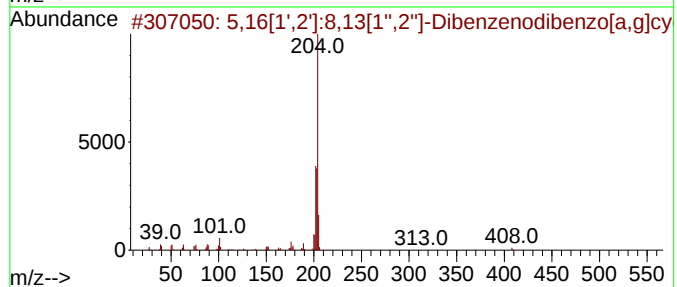
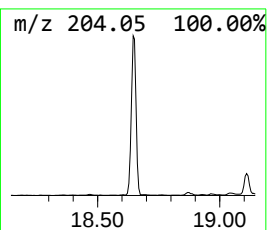
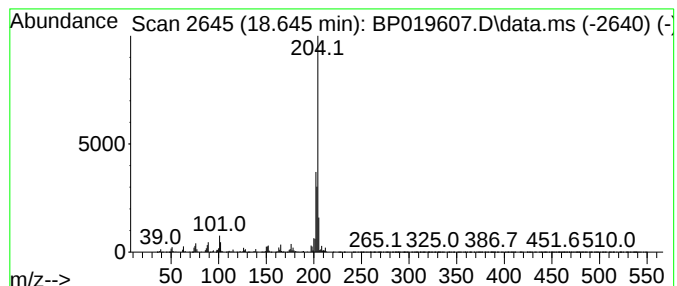
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 18.645 | 18.66 ng | 970908 | Phenanthrene-d10 | 17.292 |

| Hit# | of 5                                | Tentative ID | MW      | MolForm | CAS#        | Qual |
|------|-------------------------------------|--------------|---------|---------|-------------|------|
| 1    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408          | C32H24  |         | 005672-97-9 | 90   |
| 2    | Naphthalene, 2-phenyl-              | 204          | C16H12  |         | 000612-94-2 | 89   |
| 3    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204          | C16H12  |         | 006572-60-7 | 74   |
| 4    | Naphthalene, 1-phenyl-              | 204          | C16H12  |         | 000605-02-7 | 58   |
| 5    | 9-Acridinecarbonitrile              | 204          | C14H8N2 |         | 005326-19-2 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

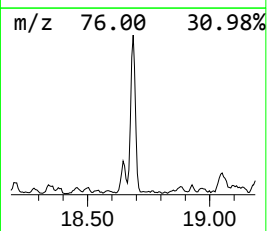
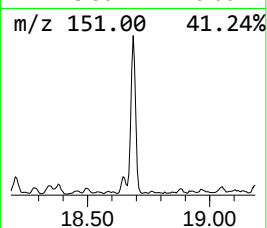
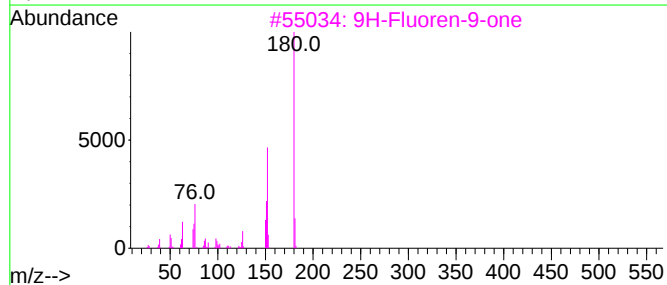
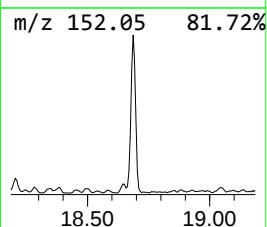
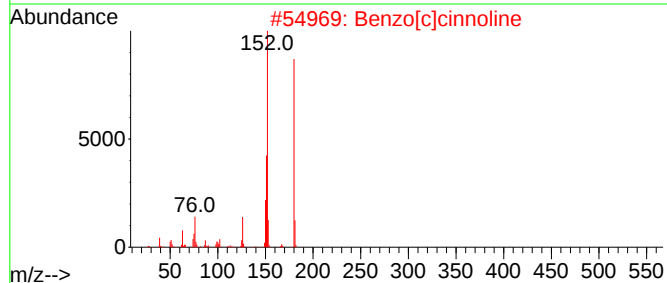
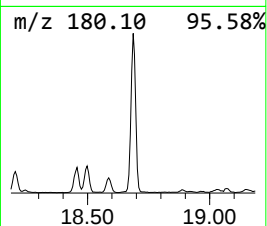
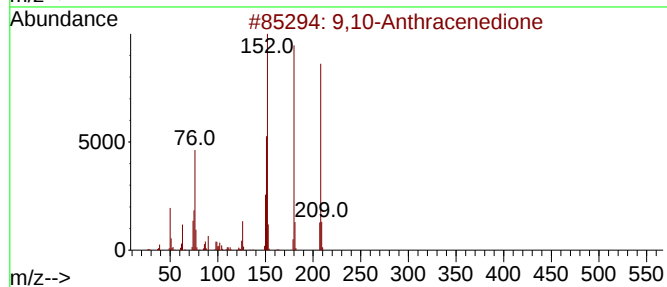
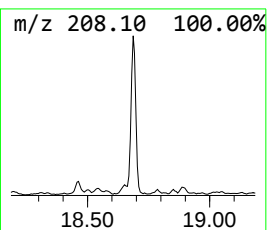
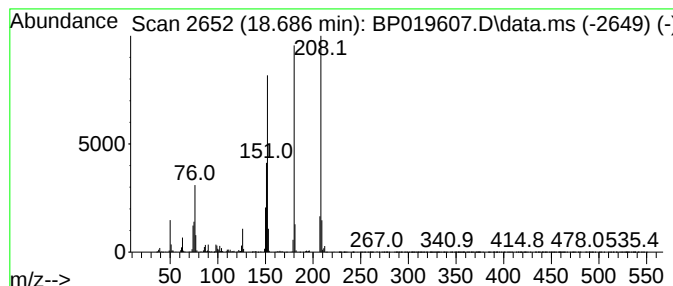
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 9,10-Anthracenedione Concentration Rank 6

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 18.686 | 21.37 ng | 1111870 | Phenanthrene-d10 | 17.292 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97   |
| 2    |      | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 93   |
| 3    |      | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 62   |
| 4    |      | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 60   |
| 5    |      | Benzo[h]cinnoline    | 180 | C12H8N2 | 000230-31-9 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

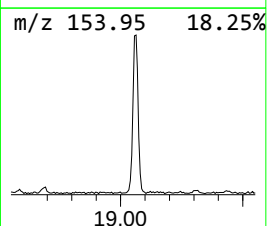
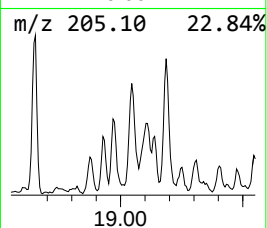
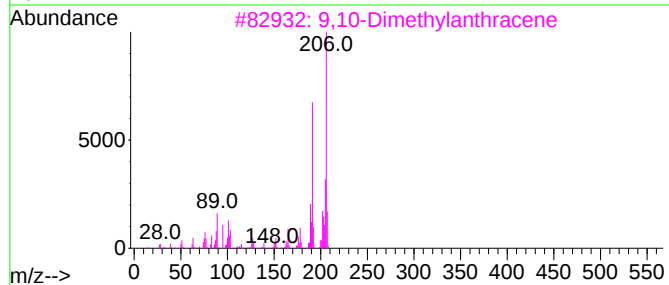
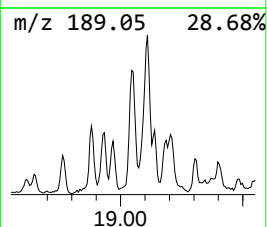
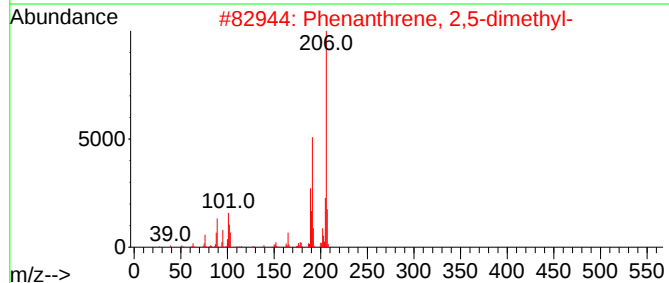
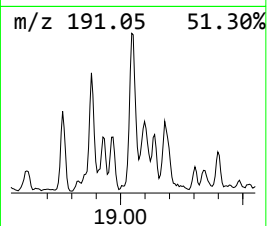
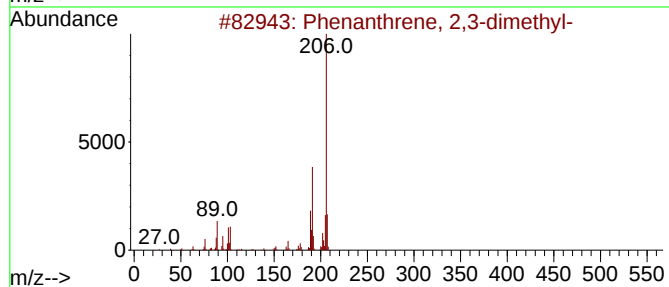
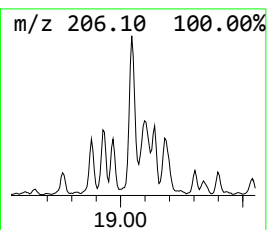
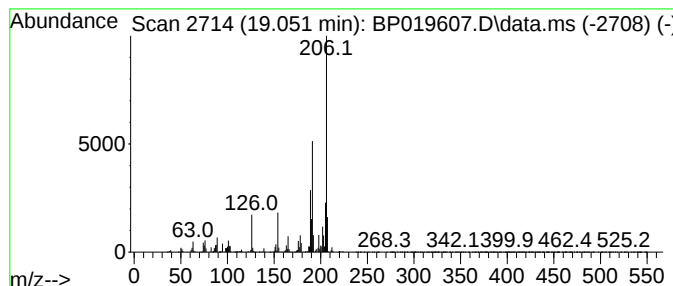
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Phenanthrene, 2,3-dimethyl- Concentration Rank 8

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 19.051 | 17.52 ng | 911267 | Phenanthrene-d10 | 17.292 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 91   |
| 2    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 91   |
| 3    |    |   | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1 | 90   |
| 4    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 89   |
| 5    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

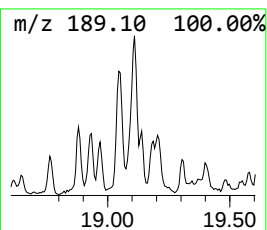
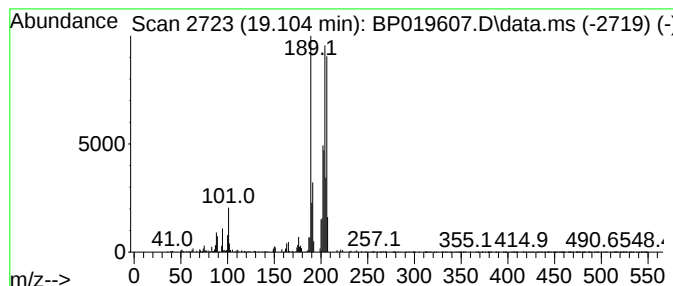
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown19.104 Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 19.104 | 9.67 ng | 502841 | Phenanthrene-d10 | 17.292 |

| Hit# | of 5 | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|------|--------------------------------------|-----|------------|--------------|------|
| 1    |      | 9,10-Bis(bromomethyl)anthracene      | 362 | C16H12Br2  | 034373-96-1  | 43   |
| 2    |      | Phenanthrene, 3,6-dimethyl-          | 206 | C16H14     | 001576-67-6  | 42   |
| 3    |      | 5-Bromo-2-(methylthio)pyrimidine     | 204 | C5H5BrN2S  | 014001-67-3  | 38   |
| 4    |      | 1,2,4,8-Tetramethylbicyclo[6.3.0...] | 204 | C15H24     | 137235-51-9  | 30   |
| 5    |      | 3-Methoxy-2,4,5-trifluorobenzoic...  | 262 | C12H13F3O3 | 1010338-76-0 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
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Operator : MA/JU  
Sample : P1375-01  
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ALS Vial : 4 Sample Multiplier: 1

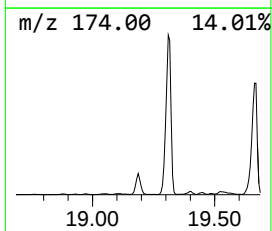
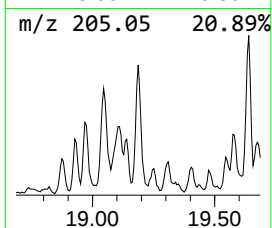
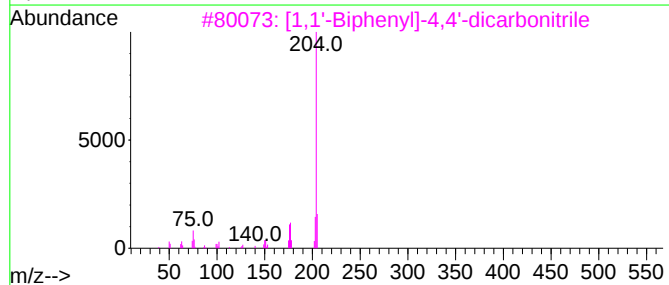
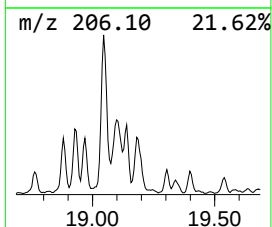
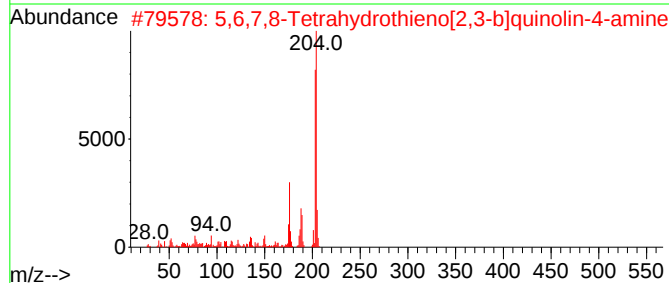
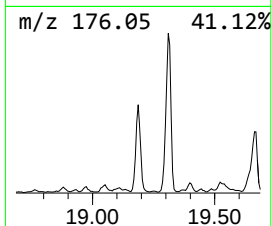
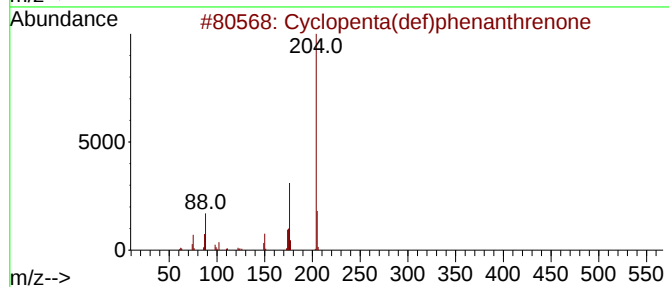
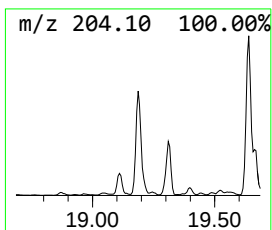
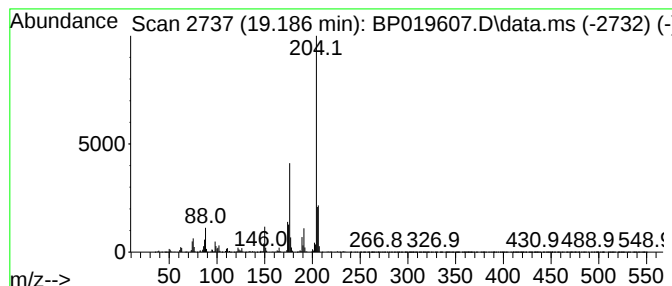
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ClientSampleId :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 19.186    | 17.43 ng                            | 907010 | Phenanthrene-d10 | 17.292       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclopenta(def)phenanthrenone       | 204    | C15H8O           | 005737-13-3  | 90   |
| 2         | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204    | C11H12N2S        | 122914-50-5  | 59   |
| 3         | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204    | C14H8N2          | 001591-30-6  | 50   |
| 4         | Ethyl .alpha.-D-glucopyranoside,... | 496    | C20H48O6Si4      | 1000365-90-0 | 43   |
| 5         | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204    | C14H8N2          | 004341-02-0  | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
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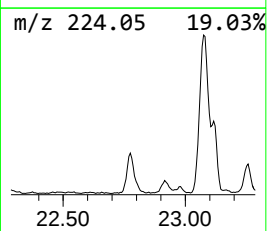
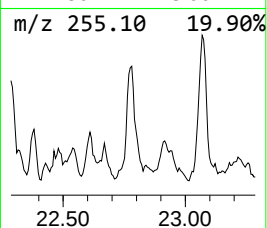
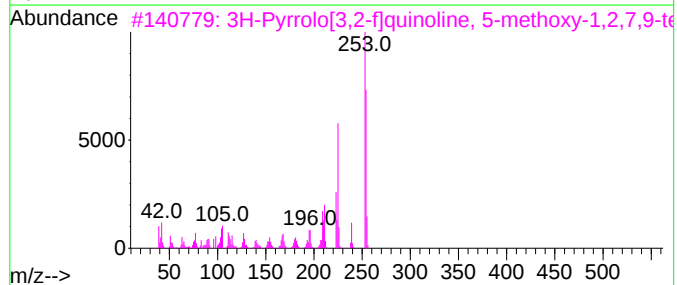
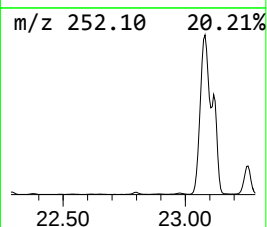
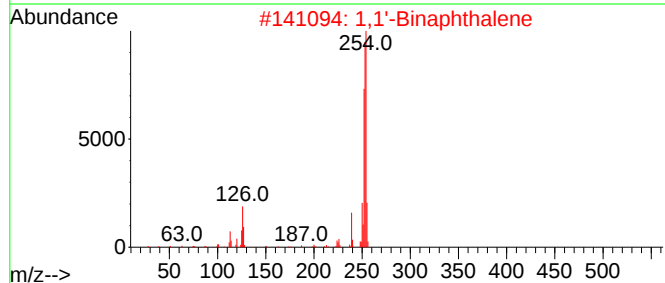
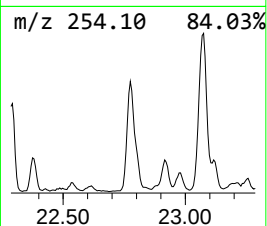
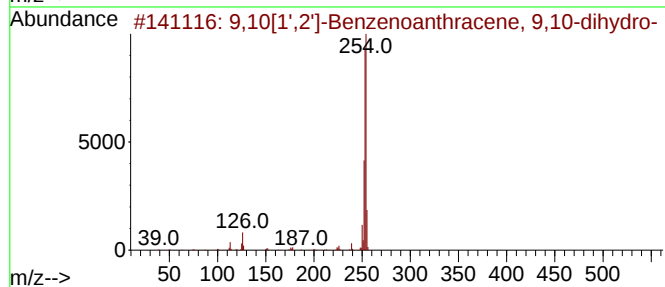
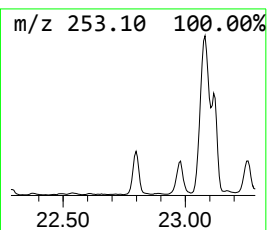
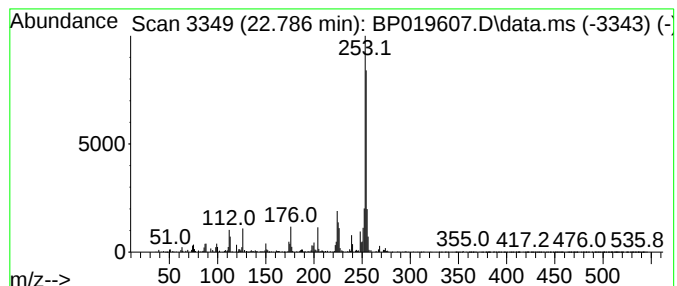
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 9,10[1',2']-Benzenoanthracene... Concentration Rank 14

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 22.786 | 13.44 ng | 952052 | Perylene-d12     | 23.804 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 9,10[1',2']-Benzenoanthracene, 9... | 254 | C20H14       | 000477-75-8  | 74      |      |      |
| 2    | 1,1'-Binaphthalene                  | 254 | C20H14       | 000604-53-5  | 72      |      |      |
| 3    | 3H-Pyrrolo[3,2-f]quinoline, 5-me... | 254 | C16H18N2O    | 1000350-44-1 | 72      |      |      |
| 4    | 4,5-Dihydrobenzo[e]pyrene           | 254 | C20H14       | 095676-42-9  | 68      |      |      |
| 5    | 9,10[1',4']-Benzenoanthracene, 9... | 254 | C20H14       | 1000487-02-7 | 64      |      |      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

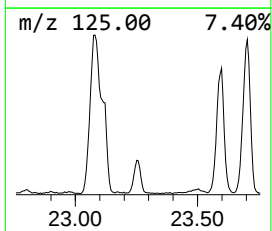
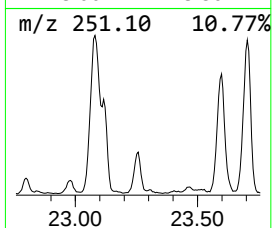
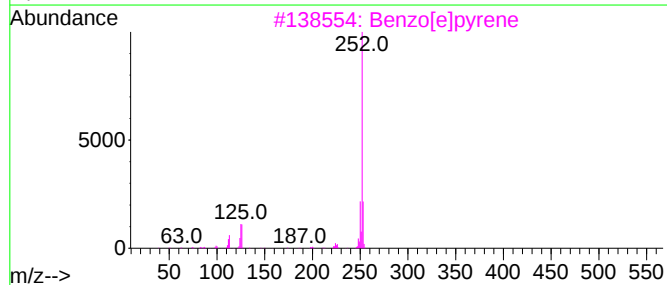
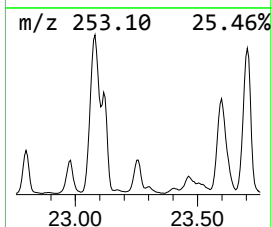
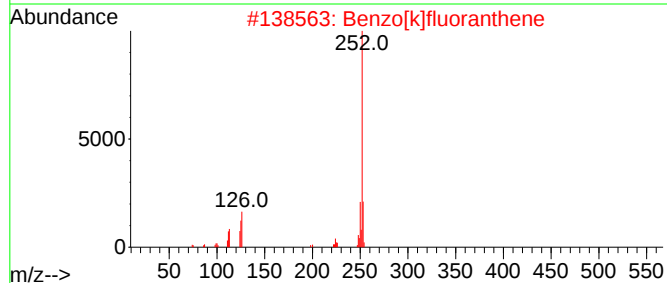
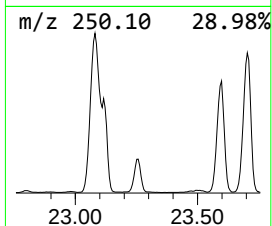
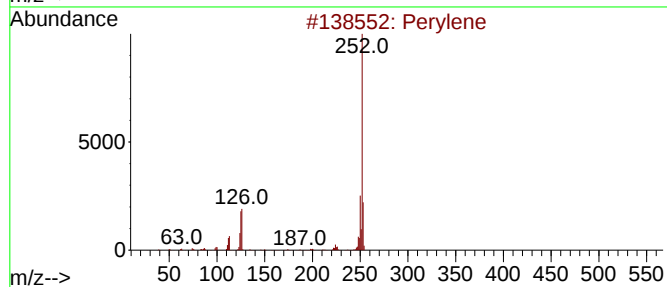
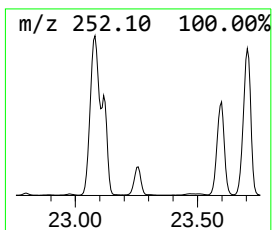
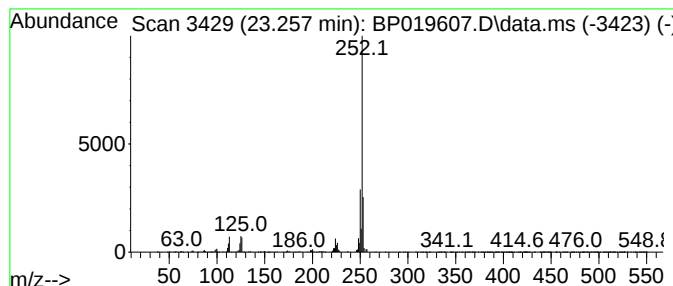
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Perylene Concentration Rank 11

| R.T.      | EstConc              | Area    | Relative to ISTD | R.T.        |      |
|-----------|----------------------|---------|------------------|-------------|------|
| 23.257    | 14.58 ng             | 1032850 | Perylene-d12     | 23.804      |      |
| Hit# of 5 | Tentative ID         | MW      | MolForm          | CAS#        | Qual |
| 1         | Perylene             | 252     | C20H12           | 000198-55-0 | 93   |
| 2         | Benzo[k]fluoranthene | 252     | C20H12           | 000207-08-9 | 90   |
| 3         | Benzo[e]pyrene       | 252     | C20H12           | 000192-97-2 | 90   |
| 4         | Benzo[b]fluoranthene | 252     | C20H12           | 000205-99-2 | 81   |
| 5         | Benzo[a]pyrene       | 252     | C20H12           | 000050-32-8 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

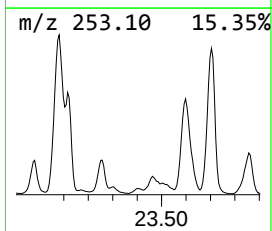
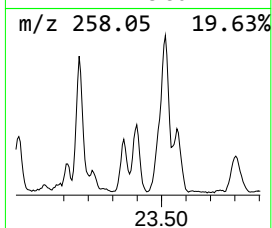
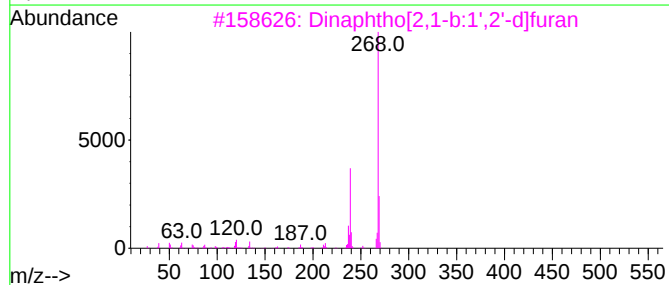
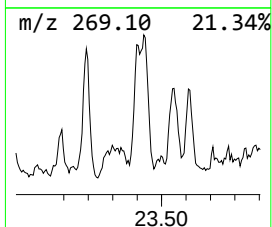
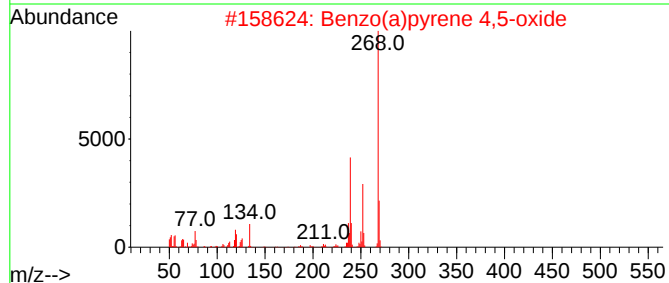
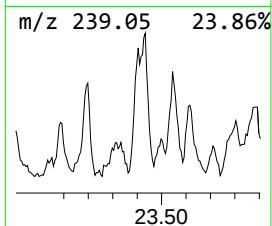
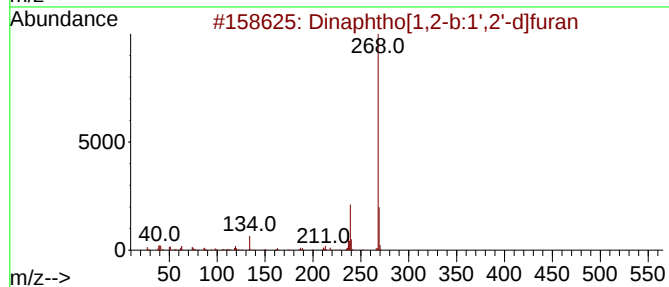
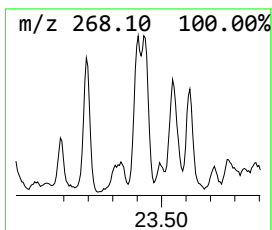
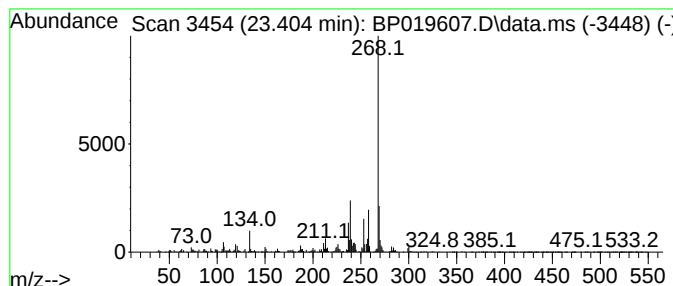
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 23.404 | 7.42 ng | 525344 | Perylene-d12     | 23.804 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Dinaphtho[1,2-b:1',2'-d]furan       | 268 | C20H12O  | 000207-93-2 | 76   |
| 2    |    |   | Benzo(a)pyrene 4,5-oxide            | 268 | C20H12O  | 037574-47-3 | 68   |
| 3    |    |   | Dinaphtho[2,1-b:1',2'-d]furan       | 268 | C20H12O  | 000194-63-8 | 64   |
| 4    |    |   | 10-Hydroxy-5-methoxy-2-methyl-1,... | 268 | C16H12O4 | 084542-45-0 | 58   |
| 5    |    |   | 4H-Dibenz[a,k]anthracene, 5,6-d...  | 268 | C21H16   | 007198-87-0 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

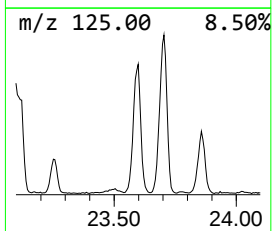
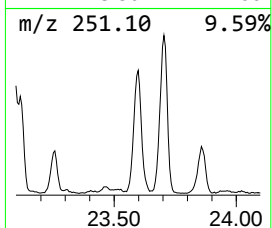
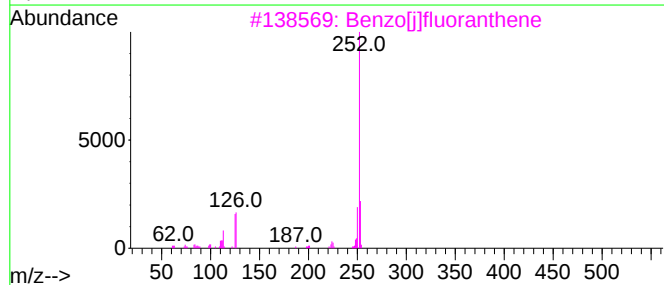
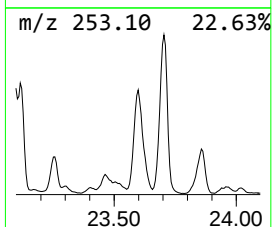
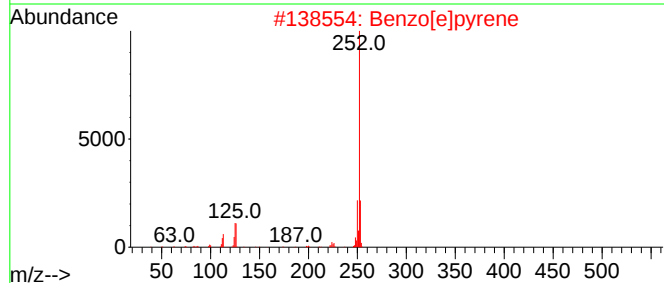
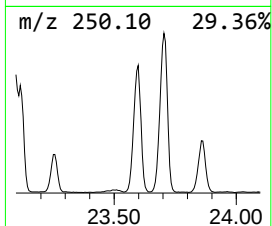
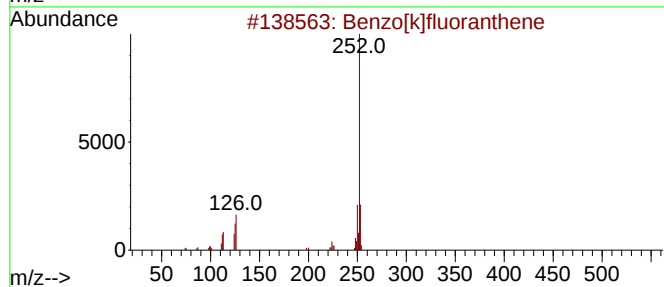
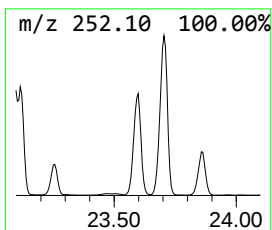
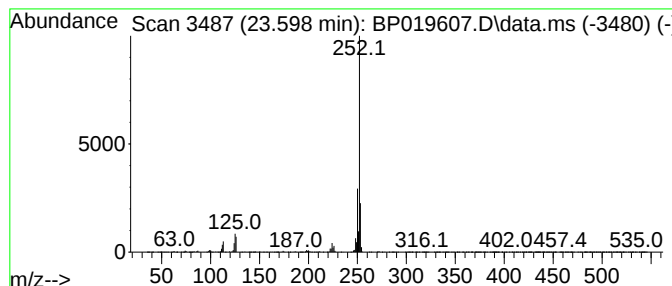
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Benzo[e]pyrene Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 23.598 | 62.18 ng | 4404590 | Perylene-d12     | 23.804 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 96   |
| 2    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 96   |
| 3    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 94   |
| 4    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 93   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

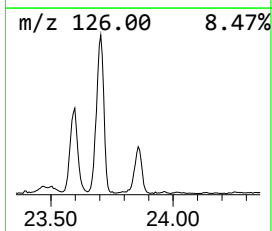
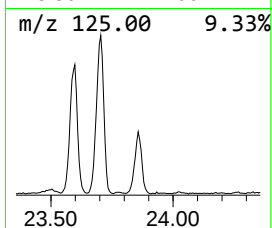
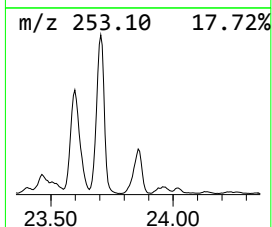
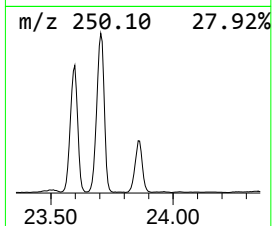
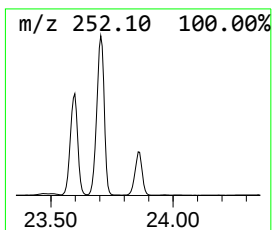
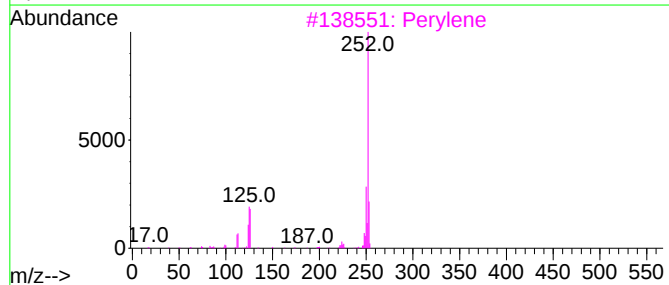
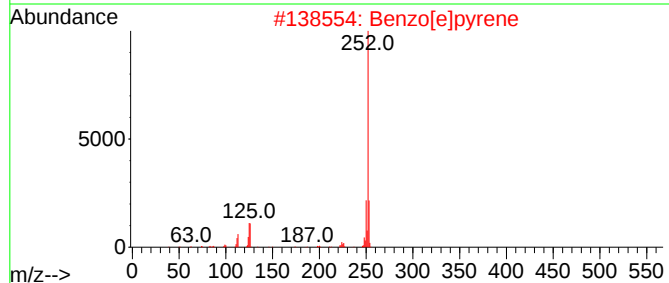
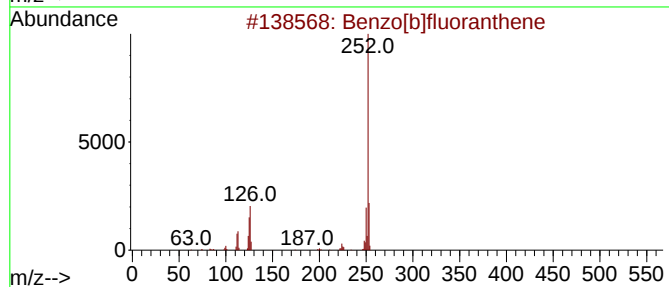
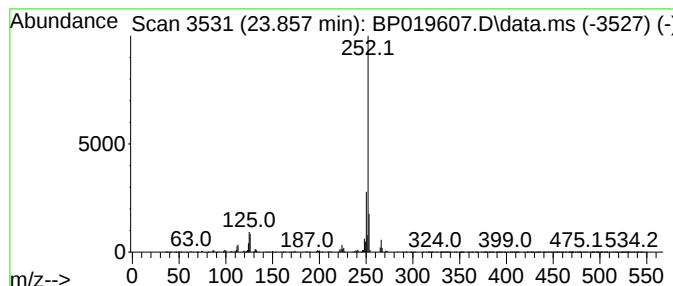
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[j]fluoranthene Concentration Rank 4

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 23.857 | 27.05 ng | 1916310 | Perylene-d12     | 23.804 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 90   |
| 2    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 90   |
| 3    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 89   |
| 4    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 89   |
| 5    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 89   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

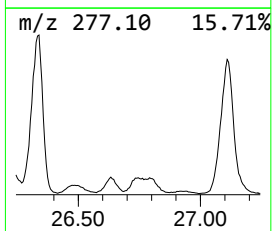
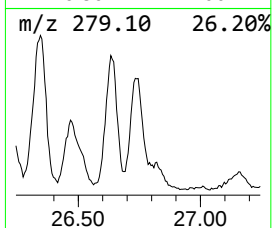
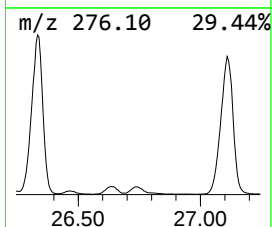
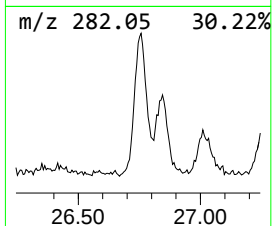
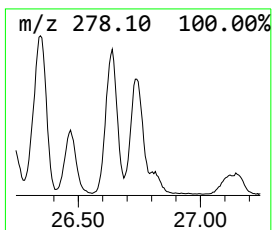
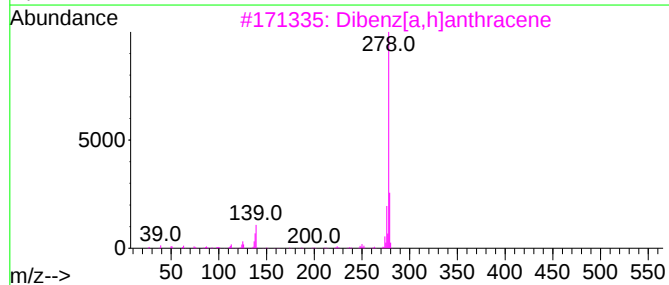
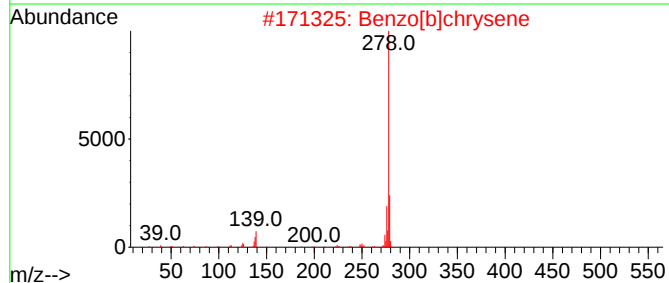
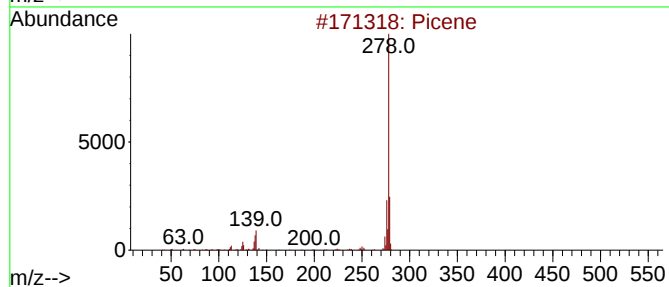
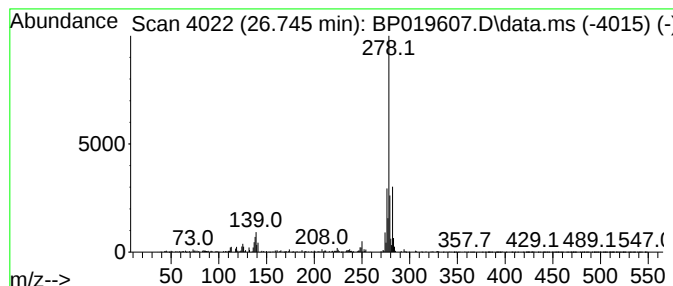
Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Picene Concentration Rank 18

| R.T.      | EstConc                  | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|--------------------------|--------|------------------|---------|-------------|------|
| 26.745    | 7.50 ng                  | 531242 | Perylene-d12     |         | 23.804      |      |
| Hit# of 5 | Tentative ID             |        | MW               | MolForm | CAS#        | Qual |
| 1         | Picene                   |        | 278              | C22H14  | 000213-46-7 | 96   |
| 2         | Benzo[b]chrysene         |        | 278              | C22H14  | 000214-17-5 | 92   |
| 3         | Dibenz[a,h]anthracene    |        | 278              | C22H14  | 000053-70-3 | 91   |
| 4         | Benzo[a]naphthacene      |        | 278              | C22H14  | 000226-88-0 | 76   |
| 5         | Naphtho[1,2-a]anthracene |        | 278              | C22H14  | 000195-06-2 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

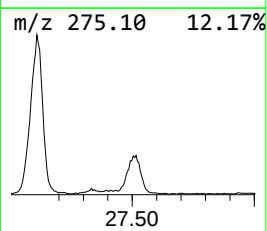
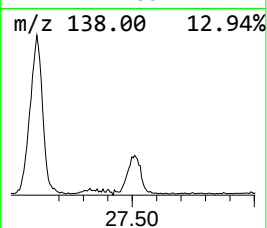
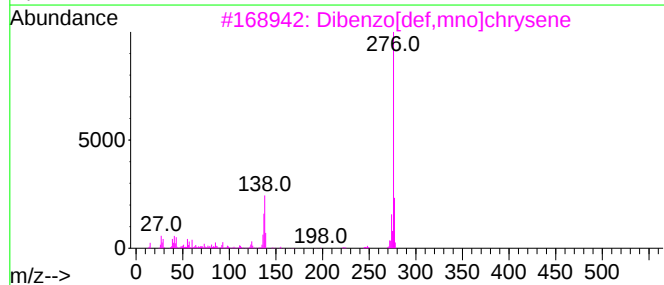
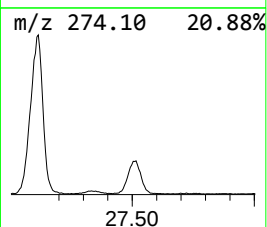
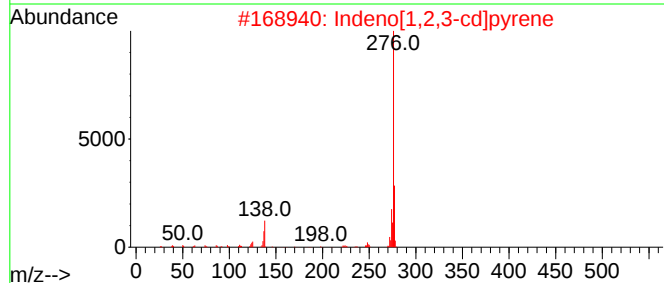
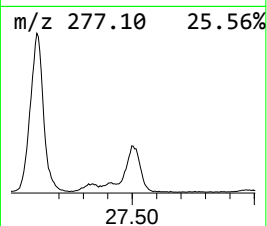
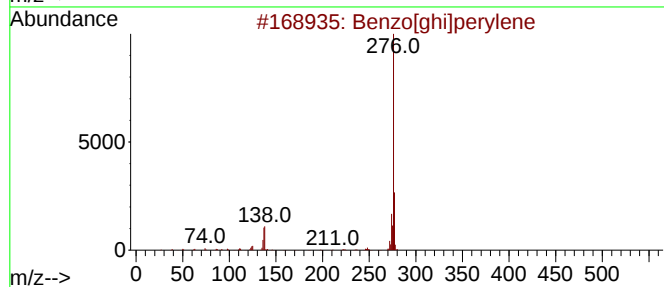
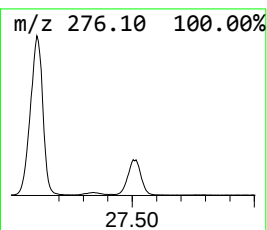
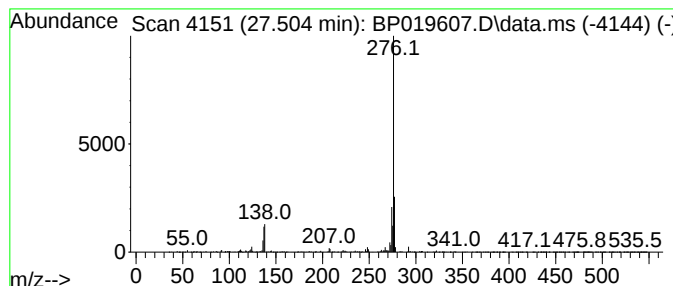
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 10

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 27.504 | 16.76 ng | 1187540 | Perylene-d12     | 23.804 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Benzo[ghi]perylene                  | 276 | C22H12    | 000191-24-2 | 91   |
| 2    |    |   | Indeno[1,2,3-cd]pyrene              | 276 | C22H12    | 000193-39-5 | 91   |
| 3    |    |   | Dibenzo[def,mno]chrysene            | 276 | C22H12    | 000191-26-4 | 87   |
| 4    |    |   | Indeno[1,2,3-cd]fluoranthene        | 276 | C22H12    | 000193-43-1 | 81   |
| 5    |    |   | 6H-Pyrido[4,3-b]carbazole, 9-met... | 276 | C18H16N2O | 010371-86-5 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP020824\  
Data File : BP019607.D  
Acq On : 08 Feb 2024 13:31  
Operator : MA/JU  
Sample : P1375-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| 9H-Fluoren-9-one   | 16.945 | 11.9    | ng    | 620267   | 4                     | 17.292 | 1040520 | 20.0 |
| Naphtho[2,3-b]t... | 17.110 | 13.7    | ng    | 712871   | 4                     | 17.292 | 1040520 | 20.0 |
| 2-Methyldibenzo... | 17.869 | 6.3     | ng    | 330012   | 4                     | 17.292 | 1040520 | 20.0 |
| Phenanthrene, 4... | 18.163 | 25.9    | ng    | 1347760  | 4                     | 17.292 | 1040520 | 20.0 |
| Phenanthrene, 1... | 18.204 | 45.9    | ng    | 2389550  | 4                     | 17.292 | 1040520 | 20.0 |
| Anthracene, 1-m... | 18.287 | 11.0    | ng    | 574312   | 4                     | 17.292 | 1040520 | 20.0 |
| 4H-Cyclopenta[d... | 18.345 | 44.5    | ng    | 2315550  | 4                     | 17.292 | 1040520 | 20.0 |
| 1H-Indene, 2-ph... | 18.381 | 14.6    | ng    | 757475   | 4                     | 17.292 | 1040520 | 20.0 |
| 5,16[1',2']:8,1... | 18.645 | 18.7    | ng    | 970908   | 4                     | 17.292 | 1040520 | 20.0 |
| 9,10-Anthracene... | 18.686 | 21.4    | ng    | 1111870  | 4                     | 17.292 | 1040520 | 20.0 |
| Phenanthrene, 2... | 19.051 | 17.5    | ng    | 911267   | 4                     | 17.292 | 1040520 | 20.0 |
| unknown19.104      | 19.104 | 9.7     | ng    | 502841   | 4                     | 17.292 | 1040520 | 20.0 |
| Cyclopenta(def)... | 19.186 | 17.4    | ng    | 907010   | 4                     | 17.292 | 1040520 | 20.0 |
| 9,10[1',2']-Ben... | 22.786 | 13.4    | ng    | 952052   | 6                     | 23.804 | 1416760 | 20.0 |
| Perylene           | 23.257 | 14.6    | ng    | 1032850  | 6                     | 23.804 | 1416760 | 20.0 |
| Dinaphtho[1,2-b... | 23.404 | 7.4     | ng    | 525344   | 6                     | 23.804 | 1416760 | 20.0 |
| Benzo[e]pyrene     | 23.598 | 62.2    | ng    | 4404590  | 6                     | 23.804 | 1416760 | 20.0 |
| Benzo[j]fluoran... | 23.857 | 27.1    | ng    | 1916310  | 6                     | 23.804 | 1416760 | 20.0 |
| Picene             | 26.745 | 7.5     | ng    | 531242   | 6                     | 23.804 | 1416760 | 20.0 |
| Dibenzo[def,mno... | 27.504 | 16.8    | ng    | 1187540  | 6                     | 23.804 | 1416760 | 20.0 |