

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM070516\  
 Data File : BM006262.D  
 Acq On : 05 Jul 2016 17:43  
 Operator : UM/SJ  
 Sample : H3612-14 20X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Z32

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM02.2-EPA-BM070216.M  
 Title : SVOA 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         | 6.822       | 713           | 720         | 732          | rBV      | 48697          | 91146         | 2.03%           | 0.194%        |
| 2         | 6.981       | 742           | 747         | 759          | rVB      | 40368          | 67825         | 1.51%           | 0.144%        |
| 3         | 7.175       | 773           | 780         | 788          | rBV      | 49174          | 83820         | 1.87%           | 0.178%        |
| 4         | 7.645       | 853           | 860         | 869          | rBV      | 853630         | 1423737       | 31.68%          | 3.029%        |
| 5         | 8.351       | 975           | 980         | 987          | rBV2     | 54796          | 90798         | 2.02%           | 0.193%        |
| 6         | 8.798       | 1050          | 1056        | 1062         | rBV      | 43784          | 77234         | 1.72%           | 0.164%        |
| 7         | 9.516       | 1172          | 1178        | 1186         | rVB2     | 34013          | 56032         | 1.25%           | 0.119%        |
| 8         | 10.057      | 1264          | 1270        | 1279         | rBV2     | 39659          | 77634         | 1.73%           | 0.165%        |
| 9         | 10.422      | 1325          | 1332        | 1338         | rBV      | 1192633        | 2110791       | 46.97%          | 4.491%        |
| 10        | 10.474      | 1338          | 1341        | 1351         | rVB      | 108621         | 181476        | 4.04%           | 0.386%        |
| 11        | 12.098      | 1610          | 1617        | 1627         | rBV      | 36787          | 73353         | 1.63%           | 0.156%        |
| 12        | 12.316      | 1648          | 1654        | 1666         | rVB      | 25962          | 47144         | 1.05%           | 0.100%        |
| 13        | 13.704      | 1886          | 1890        | 1894         | rBV      | 89427          | 121048        | 2.69%           | 0.258%        |
| 14        | 13.751      | 1894          | 1898        | 1905         | rVB      | 70654          | 102061        | 2.27%           | 0.217%        |
| 15        | 13.986      | 1932          | 1938        | 1949         | rVB      | 108064         | 187771        | 4.18%           | 0.399%        |
| 16        | 14.292      | 1981          | 1990        | 1997         | rBV2     | 1585880        | 2662256       | 59.24%          | 5.664%        |
| 17        | 14.357      | 1997          | 2001        | 2009         | rVB      | 253998         | 382884        | 8.52%           | 0.815%        |
| 18        | 14.515      | 2018          | 2028        | 2037         | rBV4     | 21108          | 46685         | 1.04%           | 0.099%        |
| 19        | 14.692      | 2051          | 2058        | 2067         | rVB      | 149564         | 246552        | 5.49%           | 0.525%        |
| 20        | 15.292      | 2154          | 2160        | 2164         | rBV      | 163180         | 240970        | 5.36%           | 0.513%        |
| 21        | 15.345      | 2164          | 2169        | 2179         | rVB      | 246618         | 364666        | 8.11%           | 0.776%        |
| 22        | 15.639      | 2215          | 2219        | 2229         | rVB2     | 45128          | 69392         | 1.54%           | 0.148%        |
| 23        | 15.786      | 2235          | 2244        | 2253         | rBV2     | 51182          | 102798        | 2.29%           | 0.219%        |
| 24        | 16.009      | 2276          | 2282        | 2291         | rVB6     | 31824          | 68742         | 1.53%           | 0.146%        |
| 25        | 16.351      | 2329          | 2340        | 2345         | rBV4     | 35106          | 78114         | 1.74%           | 0.166%        |
| 26        | 16.698      | 2394          | 2399        | 2407         | rVB      | 142495         | 214322        | 4.77%           | 0.456%        |
| 27        | 16.862      | 2422          | 2427        | 2435         | rVB      | 135413         | 209089        | 4.65%           | 0.445%        |
| 28        | 17.045      | 2451          | 2458        | 2461         | rBV      | 1888431        | 2800626       | 62.32%          | 5.958%        |
| 29        | 17.086      | 2461          | 2465        | 2471         | rVV      | 2361724        | 3378012       | 75.17%          | 7.187%        |
| 30        | 17.139      | 2471          | 2474        | 2477         | rVV2     | 192582         | 292681        | 6.51%           | 0.623%        |
| 31        | 17.174      | 2477          | 2480        | 2486         | rVV      | 344923         | 473020        | 10.53%          | 1.006%        |
| 32        | 17.233      | 2486          | 2490        | 2495         | rVB3     | 28405          | 46677         | 1.04%           | 0.099%        |
| 33        | 17.450      | 2517          | 2527        | 2533         | rBV      | 364678         | 616263        | 13.71%          | 1.311%        |
| 34        | 17.562      | 2539          | 2546        | 2552         | rBV4     | 31193          | 70278         | 1.56%           | 0.150%        |

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## Integration Parameters: LSCINT.P

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 17.627 | 2553 | 2557 | 2567 | rVB7 | 41534   | 79751   | 1.77%  | 0.170% |
| 36 | 17.915 | 2600 | 2606 | 2610 | rBV  | 166054  | 250812  | 5.58%  | 0.534% |
| 37 | 17.968 | 2610 | 2615 | 2621 | rVV  | 243944  | 360397  | 8.02%  | 0.767% |
| 38 | 18.045 | 2625 | 2628 | 2633 | rVB  | 53880   | 77261   | 1.72%  | 0.164% |
| 39 | 18.115 | 2633 | 2640 | 2644 | rBV2 | 292922  | 509603  | 11.34% | 1.084% |
| 40 | 18.150 | 2644 | 2646 | 2654 | rVB2 | 96836   | 116406  | 2.59%  | 0.248% |
| 41 | 18.268 | 2663 | 2666 | 2672 | rVV3 | 34859   | 50026   | 1.11%  | 0.106% |
| 42 | 18.421 | 2686 | 2692 | 2696 | rBV  | 130194  | 198873  | 4.43%  | 0.423% |
| 43 | 18.462 | 2696 | 2699 | 2705 | rVB  | 220941  | 298511  | 6.64%  | 0.635% |
| 44 | 18.668 | 2730 | 2734 | 2738 | rBV4 | 35346   | 45840   | 1.02%  | 0.098% |
| 45 | 18.845 | 2758 | 2764 | 2769 | rBV3 | 77142   | 155133  | 3.45%  | 0.330% |
| 46 | 18.903 | 2770 | 2774 | 2777 | rVV3 | 33391   | 65508   | 1.46%  | 0.139% |
| 47 | 18.939 | 2777 | 2780 | 2783 | rVV4 | 49239   | 69500   | 1.55%  | 0.148% |
| 48 | 18.980 | 2783 | 2787 | 2796 | rVB3 | 108609  | 214195  | 4.77%  | 0.456% |
| 49 | 19.109 | 2803 | 2809 | 2816 | rVB  | 2642894 | 3649418 | 81.21% | 7.764% |
| 50 | 19.174 | 2816 | 2820 | 2823 | rBV  | 40996   | 58248   | 1.30%  | 0.124% |
| 51 | 19.209 | 2823 | 2826 | 2830 | rVB2 | 47171   | 61157   | 1.36%  | 0.130% |
| 52 | 19.256 | 2830 | 2834 | 2838 | rBV2 | 94002   | 119967  | 2.67%  | 0.255% |
| 53 | 19.315 | 2838 | 2844 | 2847 | rBV4 | 72876   | 143604  | 3.20%  | 0.306% |
| 54 | 19.356 | 2847 | 2851 | 2855 | rVB  | 67500   | 103819  | 2.31%  | 0.221% |
| 55 | 19.444 | 2860 | 2866 | 2867 | rVV2 | 589139  | 768888  | 17.11% | 1.636% |
| 56 | 19.474 | 2867 | 2871 | 2879 | rVV  | 1865199 | 2734474 | 60.85% | 5.818% |
| 57 | 19.544 | 2879 | 2883 | 2888 | rVB  | 93191   | 138572  | 3.08%  | 0.295% |
| 58 | 19.656 | 2897 | 2902 | 2906 | rBV2 | 106109  | 167734  | 3.73%  | 0.357% |
| 59 | 19.709 | 2907 | 2911 | 2917 | rVB2 | 166225  | 271419  | 6.04%  | 0.577% |
| 60 | 19.797 | 2921 | 2926 | 2933 | rBV4 | 101514  | 264871  | 5.89%  | 0.564% |
| 61 | 19.856 | 2933 | 2936 | 2943 | rVB  | 68819   | 91206   | 2.03%  | 0.194% |
| 62 | 19.933 | 2944 | 2949 | 2950 | rBV2 | 73397   | 95956   | 2.14%  | 0.204% |
| 63 | 19.968 | 2951 | 2955 | 2960 | rVB2 | 233446  | 336667  | 7.49%  | 0.716% |
| 64 | 20.021 | 2960 | 2964 | 2968 | rVB  | 75074   | 97311   | 2.17%  | 0.207% |
| 65 | 20.074 | 2968 | 2973 | 2976 | rBV  | 127424  | 163142  | 3.63%  | 0.347% |
| 66 | 20.127 | 2976 | 2982 | 2986 | rBV2 | 140706  | 240389  | 5.35%  | 0.511% |
| 67 | 20.168 | 2986 | 2989 | 2993 | rVB2 | 83524   | 110956  | 2.47%  | 0.236% |
| 68 | 20.268 | 3004 | 3006 | 3009 | rVV  | 46798   | 48641   | 1.08%  | 0.103% |
| 69 | 20.321 | 3010 | 3015 | 3020 | rVB4 | 74858   | 128463  | 2.86%  | 0.273% |
| 70 | 20.533 | 3047 | 3051 | 3053 | rBV4 | 37971   | 55888   | 1.24%  | 0.119% |
| 71 | 20.562 | 3053 | 3056 | 3060 | rVV6 | 68278   | 94428   | 2.10%  | 0.201% |

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ALS Vial : 12 Sample Multiplier: 1

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Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 20.721 | 3078 | 3083 | 3089 | rVB2 | 260188  | 384663  | 8.56%   | 0.818% |
| 73 | 20.886 | 3105 | 3111 | 3115 | rBV2 | 270776  | 458101  | 10.19%  | 0.975% |
| 74 | 20.927 | 3115 | 3118 | 3121 | rVV  | 168366  | 219714  | 4.89%   | 0.467% |
| 75 | 20.962 | 3121 | 3124 | 3129 | rVV2 | 183806  | 360933  | 8.03%   | 0.768% |
| 76 | 21.015 | 3129 | 3133 | 3140 | rVB2 | 239859  | 371713  | 8.27%   | 0.791% |
| 77 | 21.127 | 3149 | 3152 | 3154 | rBV  | 63072   | 68154   | 1.52%   | 0.145% |
| 78 | 21.156 | 3154 | 3157 | 3161 | rVV  | 235609  | 293348  | 6.53%   | 0.624% |
| 79 | 21.238 | 3164 | 3171 | 3175 | rVV3 | 2476389 | 4493807 | 100.00% | 9.561% |
| 80 | 21.274 | 3175 | 3177 | 3187 | rVB  | 997556  | 1313246 | 29.22%  | 2.794% |
| 81 | 21.391 | 3194 | 3197 | 3202 | rBV  | 166961  | 239161  | 5.32%   | 0.509% |
| 82 | 21.503 | 3214 | 3216 | 3220 | rVB  | 116039  | 115618  | 2.57%   | 0.246% |
| 83 | 21.550 | 3220 | 3224 | 3230 | rBV2 | 189134  | 320937  | 7.14%   | 0.683% |
| 84 | 21.980 | 3293 | 3297 | 3301 | rBV2 | 267360  | 398248  | 8.86%   | 0.847% |
| 85 | 22.791 | 3429 | 3435 | 3440 | rBV  | 870931  | 1971842 | 43.88%  | 4.195% |
| 86 | 22.956 | 3460 | 3463 | 3469 | rVB  | 122454  | 186932  | 4.16%   | 0.398% |
| 87 | 23.262 | 3510 | 3515 | 3520 | rBV  | 449383  | 806498  | 17.95%  | 1.716% |
| 88 | 23.356 | 3526 | 3531 | 3539 | rVB  | 617655  | 1210346 | 26.93%  | 2.575% |
| 89 | 23.450 | 3541 | 3547 | 3553 | rBV  | 1231614 | 2394785 | 53.29%  | 5.095% |
| 90 | 25.668 | 3917 | 3924 | 3935 | rVB2 | 370727  | 1045068 | 23.26%  | 2.223% |
| 91 | 26.344 | 4032 | 4039 | 4054 | rVB2 | 243254  | 757038  | 16.85%  | 1.611% |

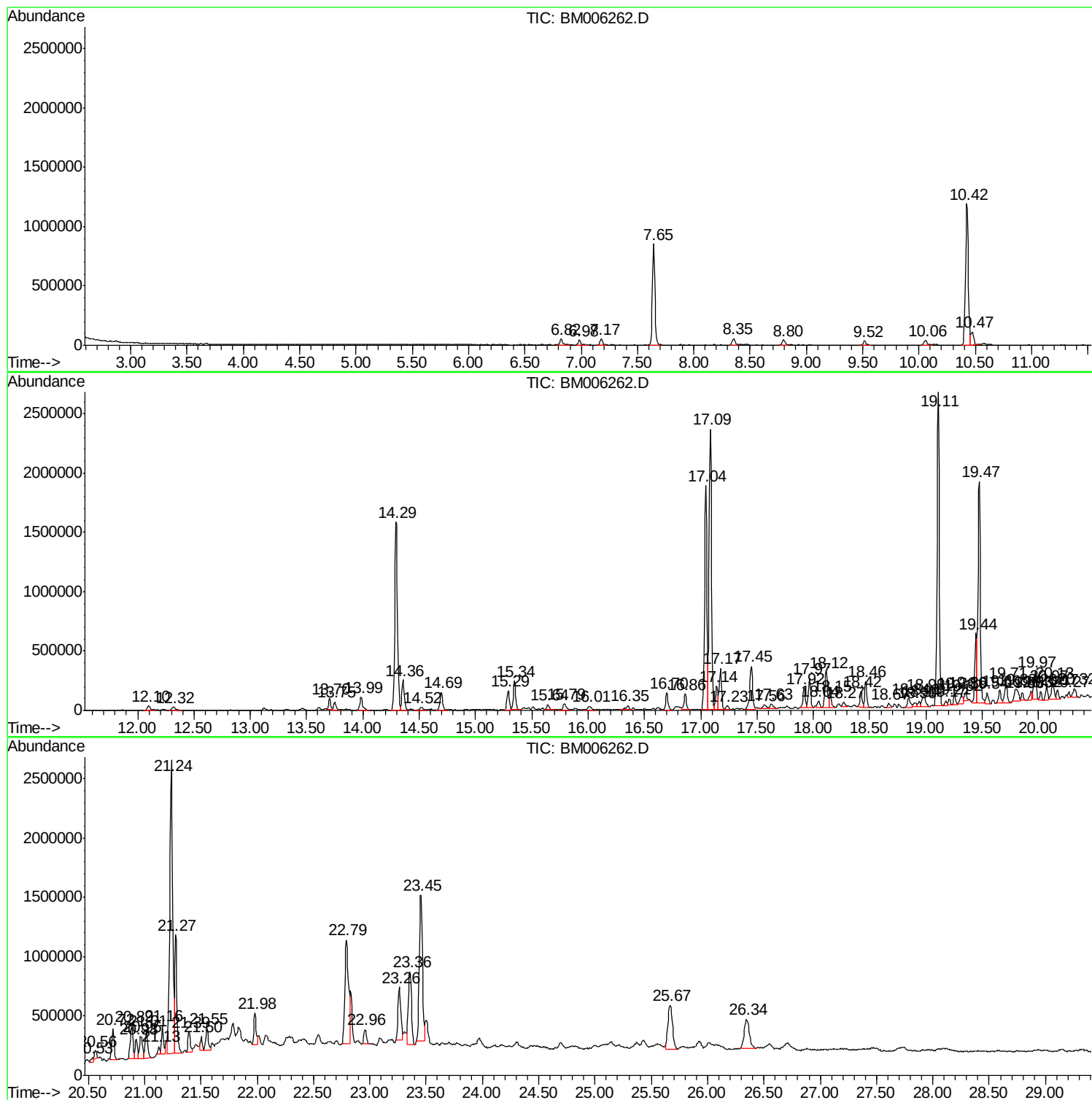
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_M\Data\BM070516\  
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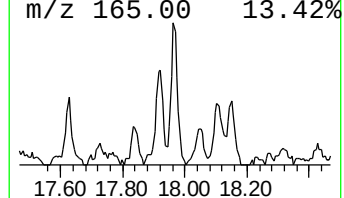
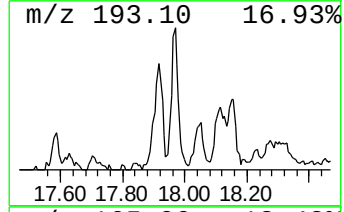
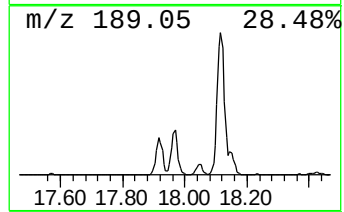
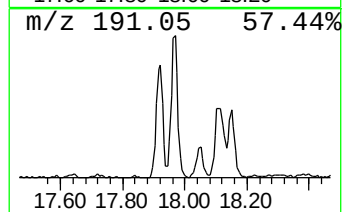
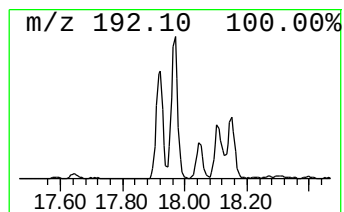
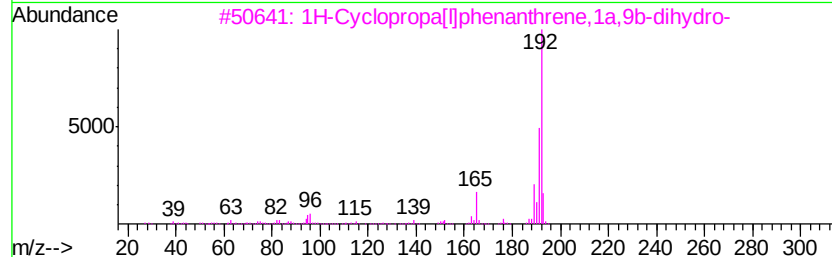
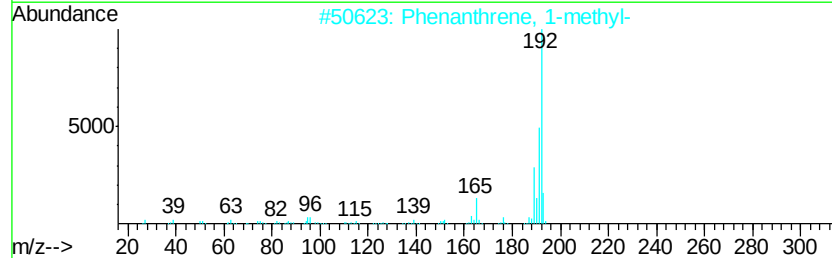
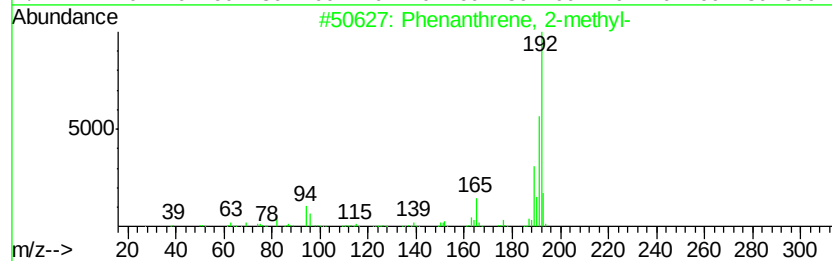
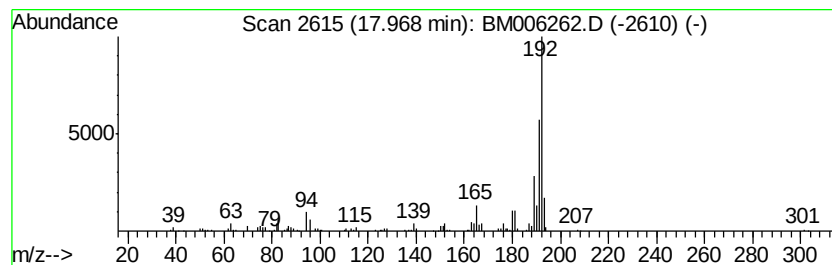
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 17.97     | 2.57 ng/ul                          | 360397 | Phenanthrene-d10 | 17.04       |      |
| 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 | 96   |
| 3         | 1H-Cyclopropa[l]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 95   |
| 4         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 95   |
| 5         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 95   |



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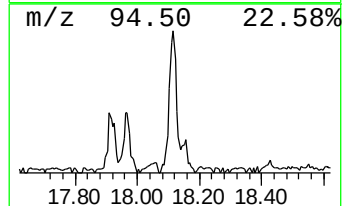
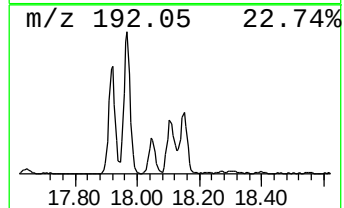
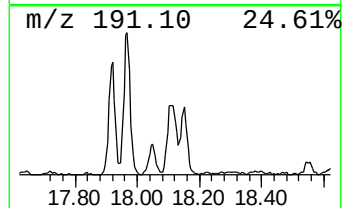
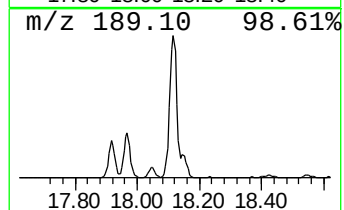
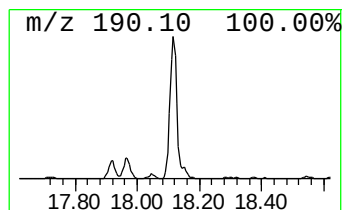
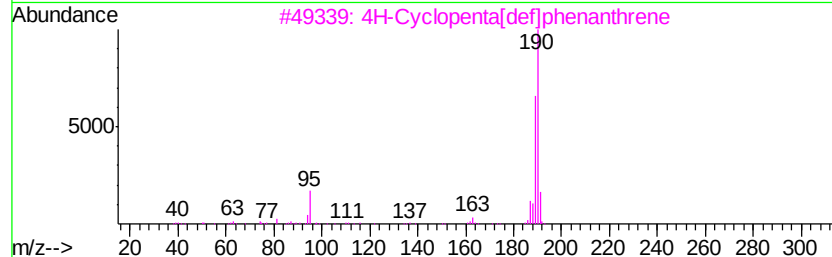
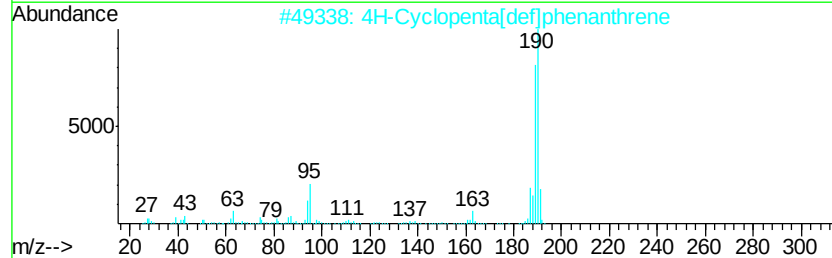
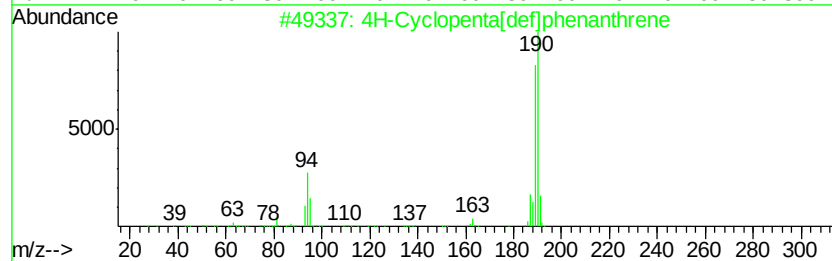
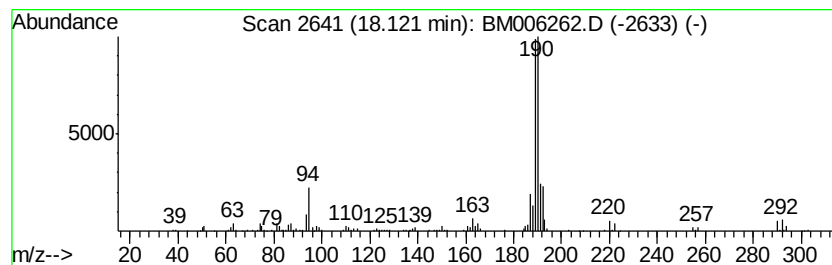
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.    | EstConc                        | Area         | Relative to ISTD |             | R.T.  |      |
|---------|--------------------------------|--------------|------------------|-------------|-------|------|
| 18.12   | 3.64 ng/ul                     | 509603       | Phenanthrene-d10 |             | 17.04 |      |
| Hit# of | 5                              | Tentative ID | MW               | MolForm     | CAS#  | Qual |
| 1       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 81    |      |
| 2       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 70    |      |
| 3       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 64    |      |
| 4       | 6H-Cyclobuta[jk]phenanthrene   | 190          | C15H10           | 083469-43-6 | 50    |      |
| 5       | Methyl diselenide              | 190          | C2H6Se2          | 007101-31-7 | 49    |      |



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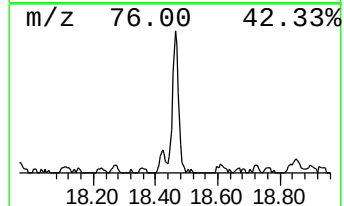
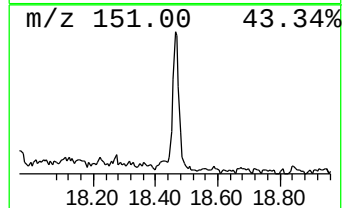
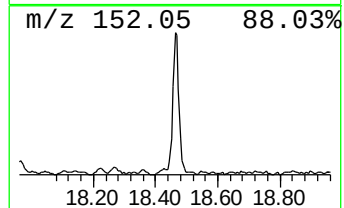
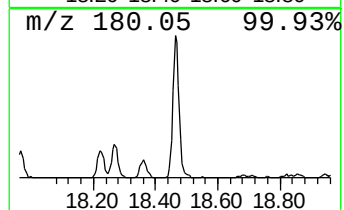
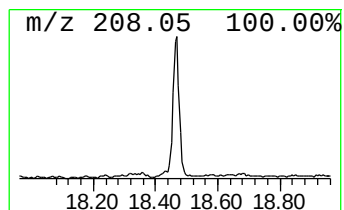
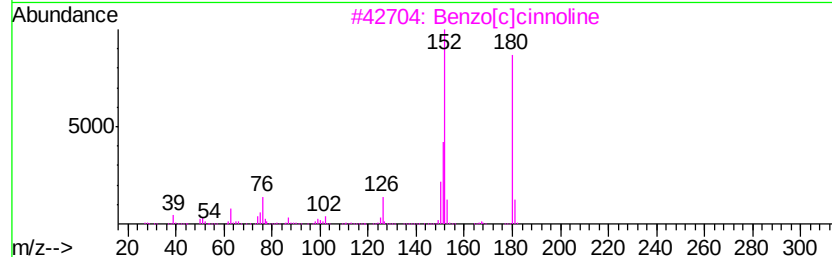
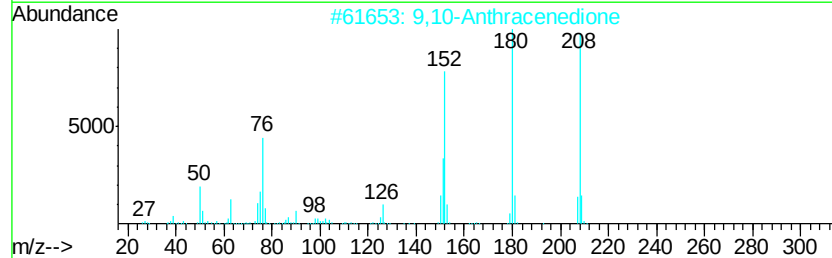
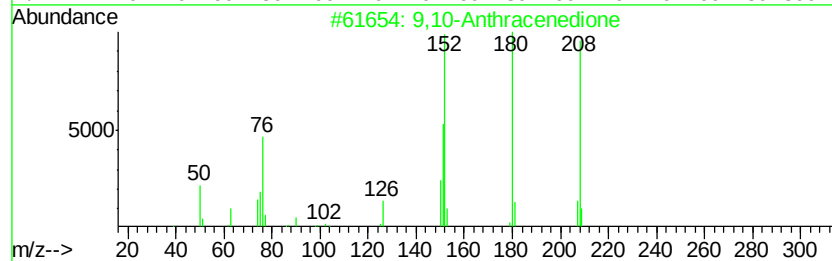
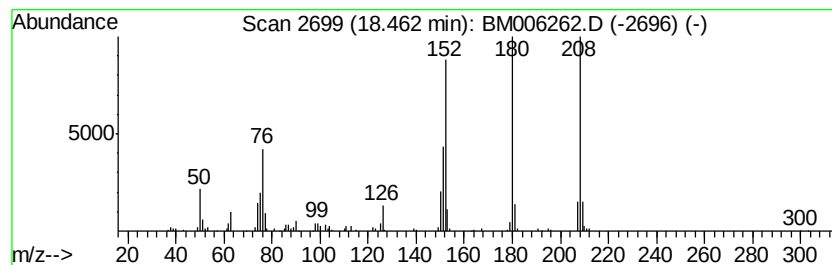
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 9,10-Anthracenedione Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.46 | 2.13 ng/ul | 298511 | Phenanthrene-d10 | 17.04 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99   |
| 2    |    | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98   |
| 3    |    | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 96   |
| 4    |    | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94   |
| 5    |    | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 64   |



Data Path : Z:\HPCHEM1\BNA\_M\Data\BM070516\  
Data File : BM006262.D  
Acq On : 05 Jul 2016 17:43  
Operator : UM/SJ  
Sample : H3612-14 20X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9Z32

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

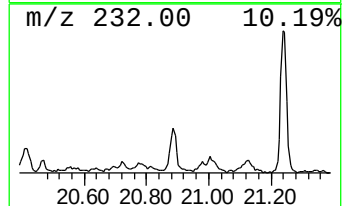
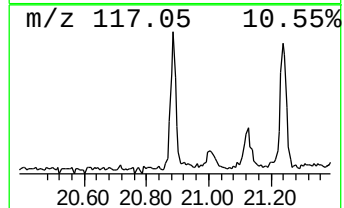
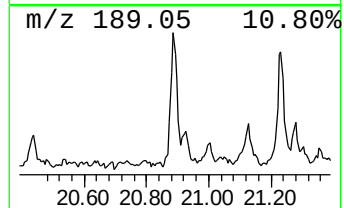
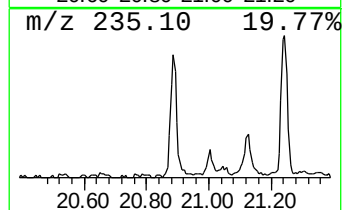
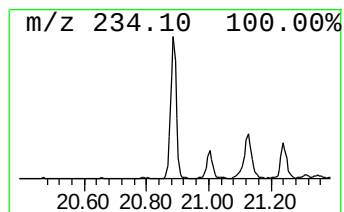
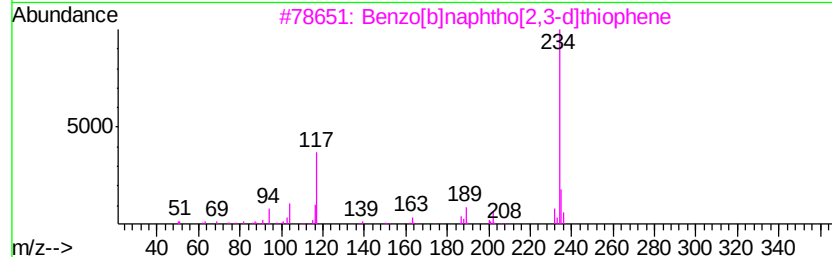
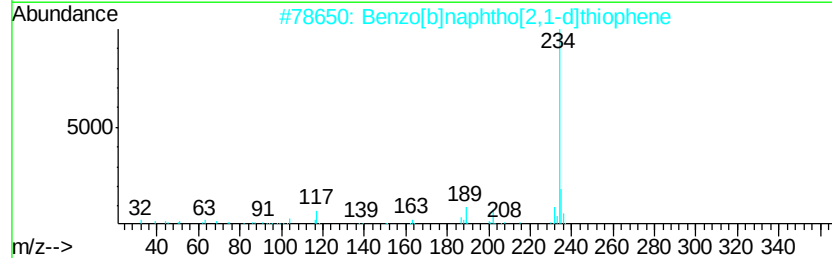
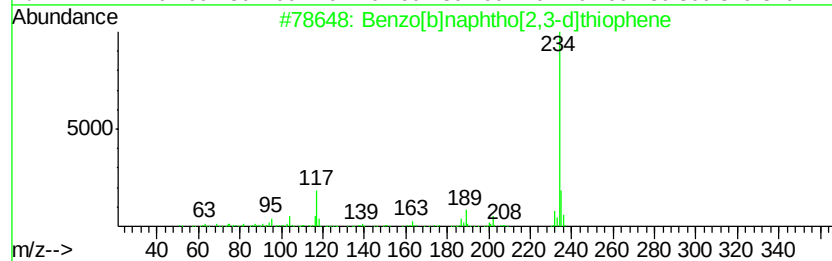
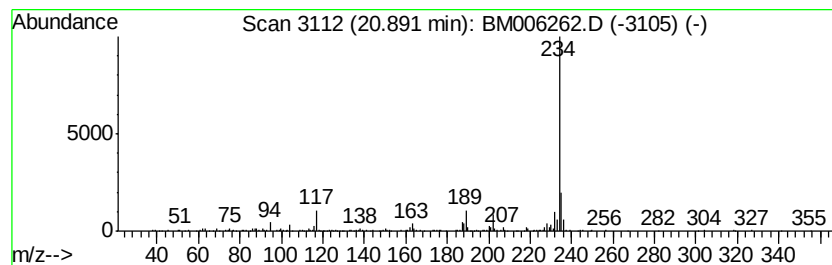
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.89 | 2.04 ng/ul | 458101 | Chrysene-d12     | 21.24 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 95   |
| 2    |    | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94   |
| 3    |    | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 94   |
| 4    |    | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 93   |
| 5    |    | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 93   |





Data Path : Z:\HPCHEM1\BNA\_M\Data\BM070516\  
Data File : BM006262.D  
Acq On : 05 Jul 2016 17:43  
Operator : UM/SJ  
Sample : H3612-14 20X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9Z32

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Phenanthrene, 2-m... | 17.97 | 2.6     | ng/ul | 360397   | 4                     | 17.04 | 2800630 | 20.0 |
| 4H-Cyclopenta[def... | 18.12 | 3.6     | ng/ul | 509603   | 4                     | 17.04 | 2800630 | 20.0 |
| 9,10-Anthracenedione | 18.46 | 2.1     | ng/ul | 298511   | 4                     | 17.04 | 2800630 | 20.0 |
| Benzo[b]naphtho[2... | 20.89 | 2.0     | ng/ul | 458101   | 5                     | 21.24 | 4493810 | 20.0 |