

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
 Data File : BM013464.D  
 Acq On : 16 Dec 2017 06:26  
 Operator : SJ/JU  
 Sample : I6775-06  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A09

## 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\SOM-EPA-BM113017.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         | 3.722       | 105           | 108         | 116          | rVB3     | 46941          | 64902         | 1.35%           | 0.073%        |
| 2         | 6.851       | 634           | 640         | 653          | rVB2     | 682413         | 1243527       | 25.89%          | 1.391%        |
| 3         | 7.016       | 660           | 668         | 676          | rBV      | 556354         | 855523        | 17.81%          | 0.957%        |
| 4         | 7.210       | 694           | 701         | 710          | rBV      | 704648         | 1136172       | 23.65%          | 1.271%        |
| 5         | 7.675       | 773           | 780         | 788          | rBV      | 1067131        | 1709361       | 35.58%          | 1.912%        |
| 6         | 8.381       | 893           | 900         | 909          | rBV      | 860053         | 1374097       | 28.60%          | 1.537%        |
| 7         | 8.828       | 969           | 976         | 986          | rVB      | 736386         | 1234285       | 25.69%          | 1.380%        |
| 8         | 9.545       | 1091          | 1098        | 1112         | rBV      | 613590         | 1078810       | 22.46%          | 1.207%        |
| 9         | 10.081      | 1182          | 1189        | 1203         | rBV      | 889352         | 1564577       | 32.57%          | 1.750%        |
| 10        | 10.451      | 1244          | 1252        | 1258         | rBV      | 1585850        | 2576848       | 53.64%          | 2.882%        |
| 11        | 10.592      | 1266          | 1276        | 1291         | rBV      | 688339         | 1263276       | 26.30%          | 1.413%        |
| 12        | 13.145      | 1702          | 1710        | 1717         | rBV      | 329664         | 500031        | 10.41%          | 0.559%        |
| 13        | 13.639      | 1788          | 1794        | 1803         | rBV3     | 63543          | 125072        | 2.60%           | 0.140%        |
| 14        | 13.733      | 1803          | 1810        | 1814         | rVV      | 1826478        | 2527141       | 52.60%          | 2.826%        |
| 15        | 13.780      | 1814          | 1818        | 1825         | rVV      | 384310         | 567060        | 11.80%          | 0.634%        |
| 16        | 13.869      | 1829          | 1833        | 1837         | rVV      | 73985          | 124460        | 2.59%           | 0.139%        |
| 17        | 14.004      | 1846          | 1856        | 1868         | rBV      | 1832505        | 3145162       | 65.47%          | 3.518%        |
| 18        | 14.222      | 1887          | 1893        | 1897         | rBV      | 137216         | 178582        | 3.72%           | 0.200%        |
| 19        | 14.316      | 1899          | 1909        | 1915         | rVV2     | 2276939        | 3628854       | 75.54%          | 4.059%        |
| 20        | 14.380      | 1915          | 1920        | 1929         | rVB      | 2092248        | 2984574       | 62.13%          | 3.338%        |
| 21        | 14.533      | 1939          | 1946        | 1954         | rBV      | 585793         | 1003624       | 20.89%          | 1.122%        |
| 22        | 14.627      | 1957          | 1962        | 1966         | rVV2     | 124643         | 200902        | 4.18%           | 0.225%        |
| 23        | 14.716      | 1968          | 1977        | 1986         | rVV      | 1204932        | 1843579       | 38.38%          | 2.062%        |
| 24        | 14.786      | 1986          | 1989        | 1994         | rVV4     | 49320          | 91677         | 1.91%           | 0.103%        |
| 25        | 14.845      | 1994          | 1999        | 2006         | rVB7     | 35786          | 68227         | 1.42%           | 0.076%        |
| 26        | 14.939      | 2007          | 2015        | 2019         | rBV7     | 43269          | 99094         | 2.06%           | 0.111%        |
| 27        | 14.992      | 2021          | 2024        | 2030         | rVB4     | 44890          | 59684         | 1.24%           | 0.067%        |
| 28        | 15.110      | 2037          | 2044        | 2048         | rBV6     | 33396          | 75426         | 1.57%           | 0.084%        |
| 29        | 15.174      | 2052          | 2055        | 2063         | rVB      | 153456         | 210505        | 4.38%           | 0.235%        |
| 30        | 15.316      | 2072          | 2079        | 2083         | rBV      | 2325555        | 3413802       | 71.06%          | 3.818%        |
| 31        | 15.368      | 2083          | 2088        | 2094         | rVV2     | 1200326        | 1685012       | 35.08%          | 1.885%        |
| 32        | 15.445      | 2096          | 2101        | 2106         | rVV      | 587366         | 934799        | 19.46%          | 1.045%        |
| 33        | 15.492      | 2106          | 2109        | 2112         | rVV2     | 129145         | 194781        | 4.05%           | 0.218%        |
| 34        | 15.527      | 2112          | 2115        | 2120         | rVV2     | 220708         | 346074        | 7.20%           | 0.387%        |

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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 15.580 | 2121 | 2124 | 2127 | rVV4 | 99436   | 157334  | 3.28%  | 0.176% |
| 36 | 15.616 | 2127 | 2130 | 2134 | rVV2 | 126880  | 189599  | 3.95%  | 0.212% |
| 37 | 15.663 | 2134 | 2138 | 2146 | rVB  | 240556  | 363498  | 7.57%  | 0.407% |
| 38 | 15.810 | 2154 | 2163 | 2171 | rVV  | 244910  | 526771  | 10.97% | 0.589% |
| 39 | 15.898 | 2171 | 2178 | 2186 | rVB5 | 58118   | 130966  | 2.73%  | 0.146% |
| 40 | 16.045 | 2198 | 2203 | 2211 | rVB3 | 189260  | 367612  | 7.65%  | 0.411% |
| 41 | 16.163 | 2217 | 2223 | 2229 | rBV5 | 55090   | 107695  | 2.24%  | 0.120% |
| 42 | 16.327 | 2246 | 2251 | 2253 | rBV2 | 68541   | 97912   | 2.04%  | 0.110% |
| 43 | 16.374 | 2256 | 2259 | 2263 | rVV2 | 109125  | 174603  | 3.63%  | 0.195% |
| 44 | 16.421 | 2263 | 2267 | 2273 | rVB4 | 57862   | 93852   | 1.95%  | 0.105% |
| 45 | 16.521 | 2279 | 2284 | 2288 | rVB6 | 43144   | 73221   | 1.52%  | 0.082% |
| 46 | 16.604 | 2295 | 2298 | 2302 | rBV4 | 35215   | 64204   | 1.34%  | 0.072% |
| 47 | 16.645 | 2302 | 2305 | 2308 | rVB3 | 60826   | 77397   | 1.61%  | 0.087% |
| 48 | 16.721 | 2313 | 2318 | 2325 | rVB2 | 326754  | 483356  | 10.06% | 0.541% |
| 49 | 16.815 | 2331 | 2334 | 2340 | rVB3 | 137940  | 245389  | 5.11%  | 0.274% |
| 50 | 16.886 | 2340 | 2346 | 2353 | rVB  | 375545  | 594854  | 12.38% | 0.665% |
| 51 | 17.068 | 2370 | 2377 | 2380 | rBV  | 2714681 | 3910617 | 81.40% | 4.374% |
| 52 | 17.110 | 2380 | 2384 | 2389 | rVV  | 3339270 | 4554252 | 94.80% | 5.094% |
| 53 | 17.163 | 2389 | 2393 | 2397 | rVV  | 2438669 | 3597391 | 74.88% | 4.023% |
| 54 | 17.198 | 2397 | 2399 | 2405 | rVB  | 989139  | 1176077 | 24.48% | 1.315% |
| 55 | 17.257 | 2405 | 2409 | 2414 | rBV3 | 74690   | 125348  | 2.61%  | 0.140% |
| 56 | 17.474 | 2440 | 2446 | 2451 | rBV  | 136742  | 223047  | 4.64%  | 0.249% |
| 57 | 17.586 | 2460 | 2465 | 2471 | rVB4 | 75943   | 134175  | 2.79%  | 0.150% |
| 58 | 17.645 | 2472 | 2475 | 2478 | rVV3 | 49339   | 67659   | 1.41%  | 0.076% |
| 59 | 17.680 | 2479 | 2481 | 2485 | rVB5 | 55755   | 62420   | 1.30%  | 0.070% |
| 60 | 17.786 | 2496 | 2499 | 2504 | rVB5 | 34979   | 60323   | 1.26%  | 0.067% |
| 61 | 17.910 | 2516 | 2520 | 2522 | rBV2 | 124546  | 175964  | 3.66%  | 0.197% |
| 62 | 17.939 | 2522 | 2525 | 2528 | rBV  | 238470  | 311203  | 6.48%  | 0.348% |
| 63 | 17.974 | 2528 | 2531 | 2532 | rBV  | 308632  | 358168  | 7.46%  | 0.401% |
| 64 | 18.068 | 2543 | 2547 | 2553 | rVB  | 166452  | 250406  | 5.21%  | 0.280% |
| 65 | 18.139 | 2553 | 2559 | 2563 | rBV2 | 560563  | 983979  | 20.48% | 1.101% |
| 66 | 18.262 | 2576 | 2580 | 2583 | rBV5 | 62015   | 95416   | 1.99%  | 0.107% |
| 67 | 18.445 | 2607 | 2611 | 2615 | rBV  | 239711  | 319753  | 6.66%  | 0.358% |
| 68 | 18.486 | 2615 | 2618 | 2623 | rVB2 | 87080   | 135647  | 2.82%  | 0.152% |
| 69 | 18.692 | 2650 | 2653 | 2656 | rVB4 | 61714   | 80024   | 1.67%  | 0.090% |
| 70 | 18.745 | 2659 | 2662 | 2665 | rVV2 | 50456   | 57082   | 1.19%  | 0.064% |
| 71 | 18.780 | 2665 | 2668 | 2673 | rVB4 | 51387   | 67698   | 1.41%  | 0.076% |

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 Title : SVOA CALIBRATION

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|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.862 | 2678 | 2682 | 2687 | rBV2 | 89683   | 149641  | 3.11%   | 0.167% |
| 73  | 19.009 | 2701 | 2707 | 2712 | rBV  | 101225  | 178446  | 3.71%   | 0.200% |
| 74  | 19.127 | 2721 | 2727 | 2734 | rVB  | 3587951 | 4804004 | 100.00% | 5.373% |
| 75  | 19.256 | 2746 | 2749 | 2756 | rVB5 | 159226  | 282040  | 5.87%   | 0.315% |
| 76  | 19.462 | 2778 | 2784 | 2787 | rBV3 | 3024540 | 4508985 | 93.86%  | 5.043% |
| 77  | 19.492 | 2787 | 2789 | 2798 | rVV  | 2511204 | 3092124 | 64.37%  | 3.458% |
| 78  | 19.568 | 2798 | 2802 | 2807 | rVB2 | 131517  | 231856  | 4.83%   | 0.259% |
| 79  | 19.674 | 2816 | 2820 | 2826 | rVB  | 140196  | 200178  | 4.17%   | 0.224% |
| 80  | 19.739 | 2827 | 2831 | 2836 | rVB  | 131088  | 187996  | 3.91%   | 0.210% |
| 81  | 19.815 | 2839 | 2844 | 2845 | rBV3 | 159373  | 227028  | 4.73%   | 0.254% |
| 82  | 19.992 | 2863 | 2874 | 2878 | rVB2 | 362172  | 834259  | 17.37%  | 0.933% |
| 83  | 20.092 | 2886 | 2891 | 2894 | rBV2 | 344221  | 457760  | 9.53%   | 0.512% |
| 84  | 20.145 | 2894 | 2900 | 2904 | rVV2 | 211190  | 385151  | 8.02%   | 0.431% |
| 85  | 20.186 | 2904 | 2907 | 2911 | rVB2 | 94082   | 118480  | 2.47%   | 0.133% |
| 86  | 20.286 | 2921 | 2924 | 2928 | rBV  | 123709  | 163871  | 3.41%   | 0.183% |
| 87  | 20.503 | 2958 | 2961 | 2964 | rBV4 | 69328   | 86058   | 1.79%   | 0.096% |
| 88  | 20.739 | 2998 | 3001 | 3006 | rVB2 | 165392  | 222015  | 4.62%   | 0.248% |
| 89  | 20.903 | 3026 | 3029 | 3032 | rVB  | 138898  | 174473  | 3.63%   | 0.195% |
| 90  | 20.939 | 3032 | 3035 | 3038 | rBV  | 159916  | 180777  | 3.76%   | 0.202% |
| 91  | 20.974 | 3038 | 3041 | 3047 | rVB3 | 566467  | 767954  | 15.99%  | 0.859% |
| 92  | 21.256 | 3082 | 3089 | 3093 | rBV2 | 2824381 | 4582204 | 95.38%  | 5.125% |
| 93  | 21.292 | 3093 | 3095 | 3105 | rVB  | 939547  | 1161960 | 24.19%  | 1.300% |
| 94  | 21.409 | 3112 | 3115 | 3123 | rBV4 | 126625  | 257527  | 5.36%   | 0.288% |
| 95  | 21.562 | 3138 | 3141 | 3147 | rVB2 | 117950  | 208018  | 4.33%   | 0.233% |
| 96  | 22.815 | 3348 | 3354 | 3359 | rBV2 | 937186  | 2091553 | 43.54%  | 2.339% |
| 97  | 22.980 | 3379 | 3382 | 3389 | rVB  | 174822  | 288302  | 6.00%   | 0.322% |
| 98  | 23.286 | 3429 | 3434 | 3438 | rBV  | 376550  | 699377  | 14.56%  | 0.782% |
| 99  | 23.339 | 3438 | 3443 | 3448 | rBV  | 1092425 | 1836557 | 38.23%  | 2.054% |
| 100 | 23.480 | 3460 | 3467 | 3472 | rBV  | 1284314 | 2428829 | 50.56%  | 2.716% |

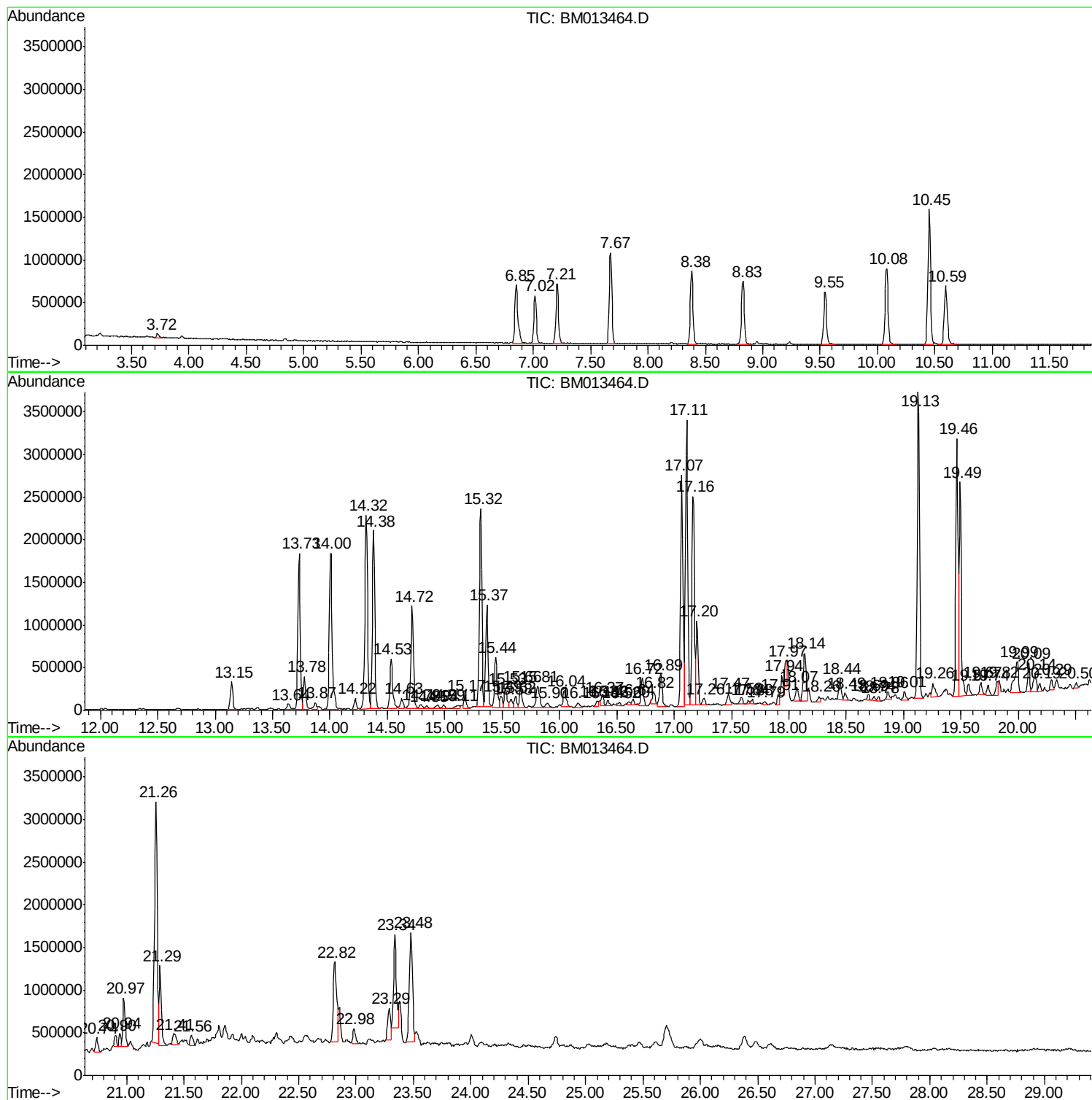
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

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



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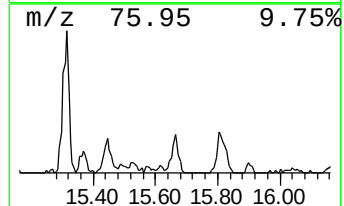
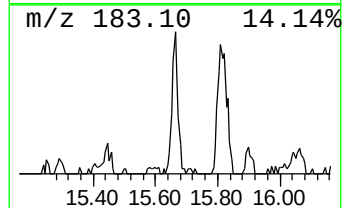
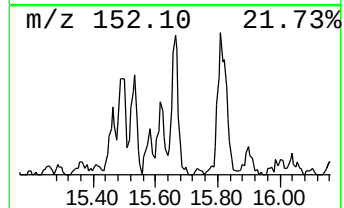
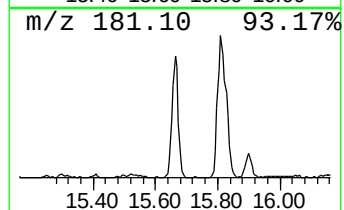
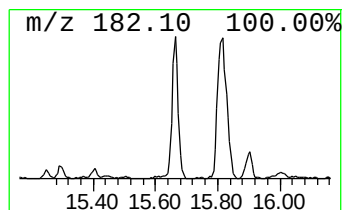
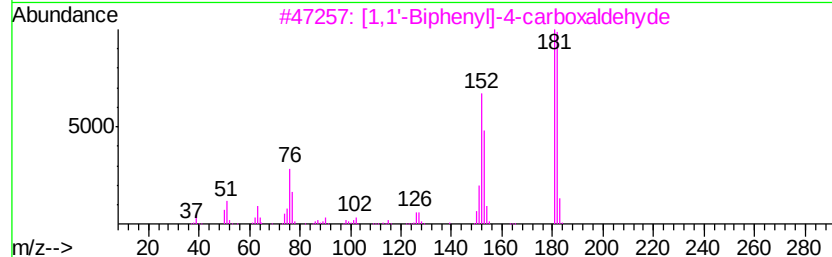
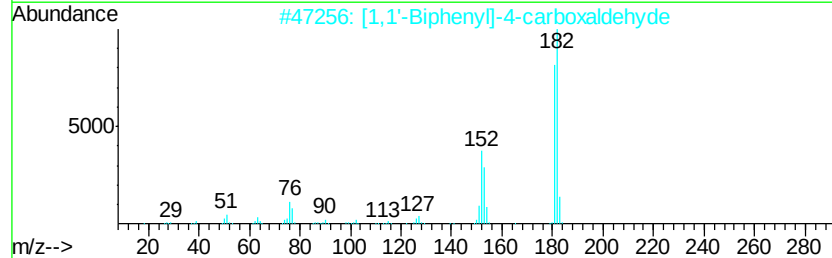
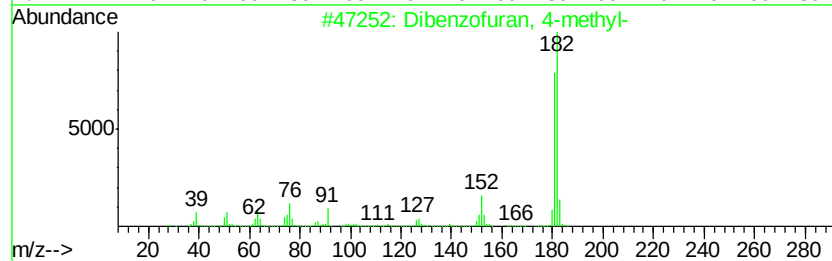
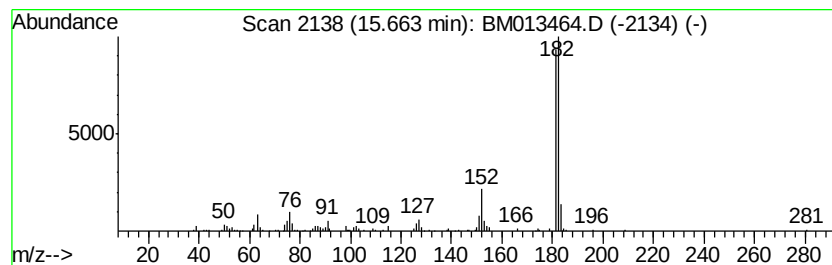
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Dibenzofuran, 4-methyl- Concentration Rank 8

| R.T.    | EstConc    | Area                             | Relative to ISTD | R.T.           |
|---------|------------|----------------------------------|------------------|----------------|
| 15.66   | 2.00 ng/ul | 363498                           | Acenaphthene-d10 | 14.32          |
| Hit# of | 5          | Tentative ID                     | MW MolForm       | CAS# Qual      |
| 1       |            | Dibenzofuran, 4-methyl-          | 182 C13H10O      | 007320-53-8 87 |
| 2       |            | [1,1'-Biphenyl]-4-carboxaldehyde | 182 C13H10O      | 003218-36-8 87 |
| 3       |            | [1,1'-Biphenyl]-4-carboxaldehyde | 182 C13H10O      | 003218-36-8 87 |
| 4       |            | 9H-Fluoren-9-ol                  | 182 C13H10O      | 001689-64-1 86 |
| 5       |            | Pyrido[2,3-b]indole, 6-methyl-   | 182 C12H10N2     | 108349-67-3 72 |



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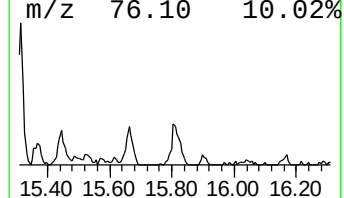
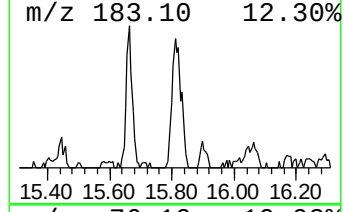
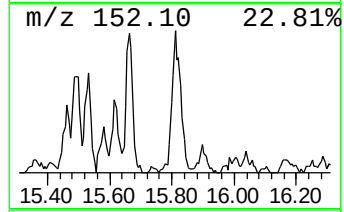
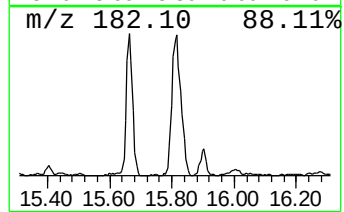
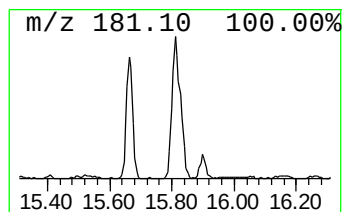
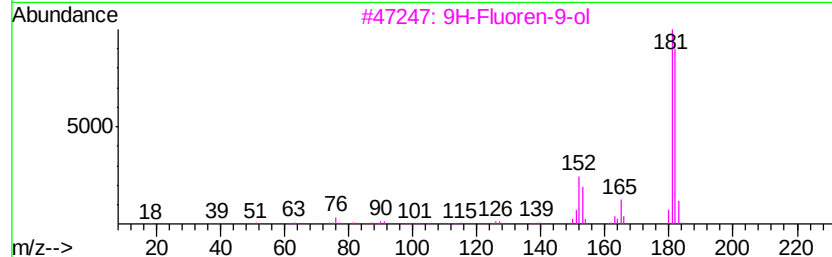
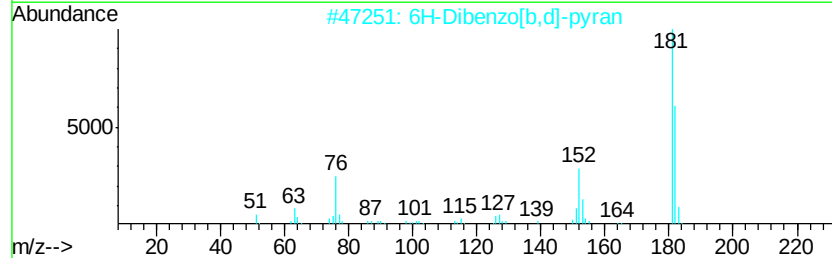
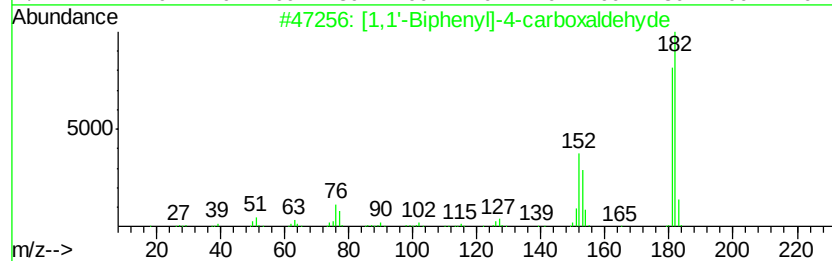
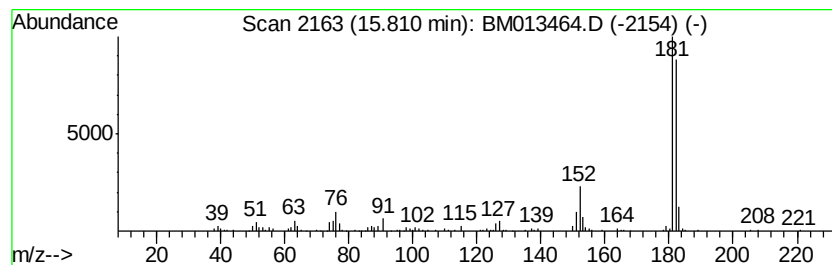
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.81 | 2.69 ng/ul | 526771 | Phenanthrene-d10 | 17.07 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O | 003218-36-8 | 91   |
| 2    |    |   | 6H-Dibenzo[b,d]-pyran               | 182 | C13H10O | 000229-95-8 | 91   |
| 3    |    |   | 9H-Fluoren-9-ol                     | 182 | C13H10O | 001689-64-1 | 90   |
| 4    |    |   | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 87   |
| 5    |    |   | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 86   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

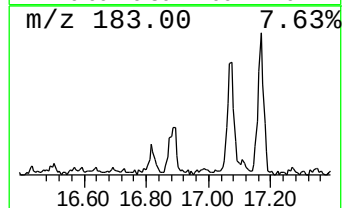
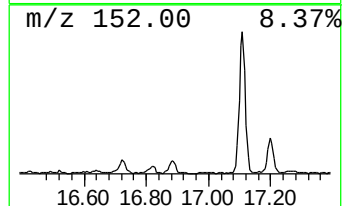
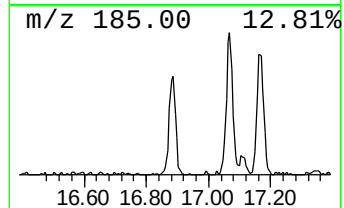
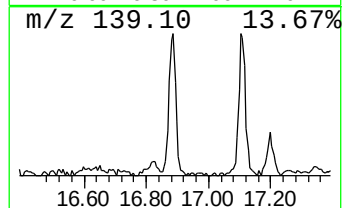
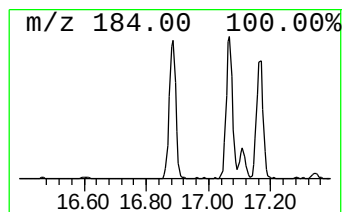
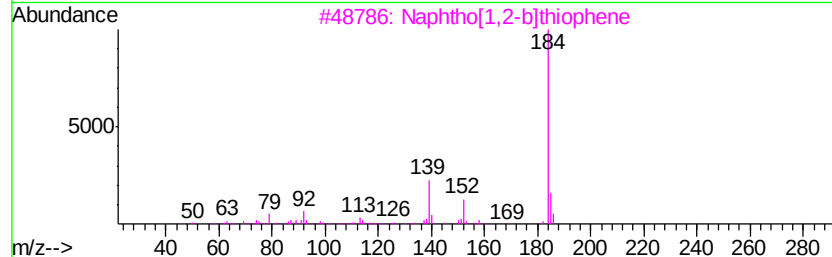
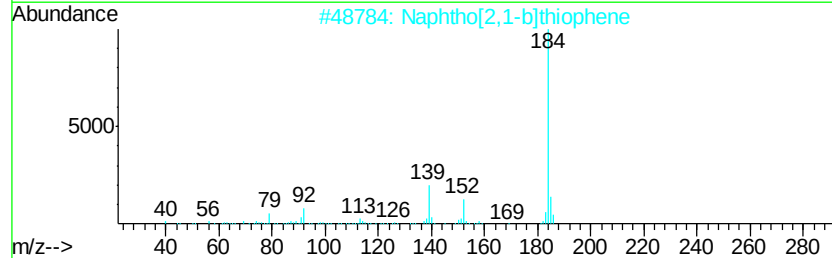
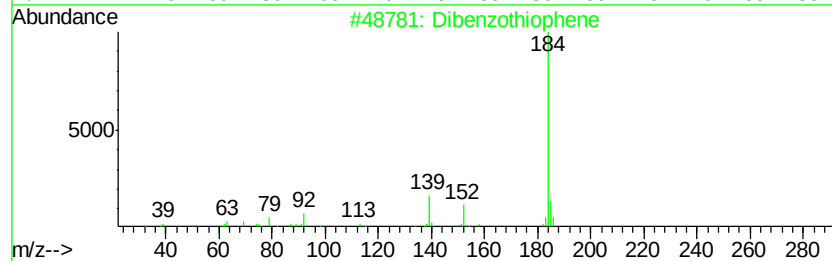
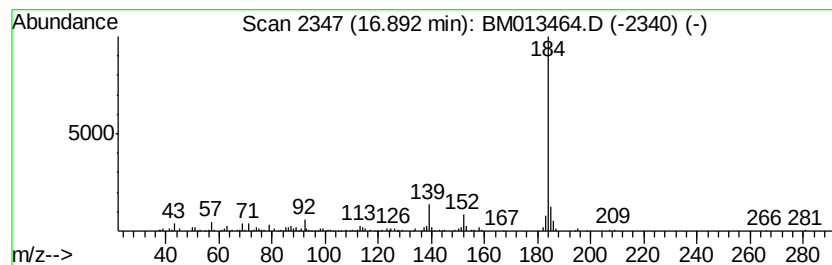
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BNA\_M  
ClientSampleId :  
F9A09

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Dibenzothiophene Concentration Rank 5

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 16.89     | 3.04 ng/ul              | 594854 | Phenanthrene-d10 |             | 17.07 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Dibenzothiophene        | 184    | C12H8S           | 000132-65-0 | 97    |
| 2         | Naphtho[2,1-b]thiophene | 184    | C12H8S           | 000233-02-3 | 95    |
| 3         | Naphtho[1,2-b]thiophene | 184    | C12H8S           | 000234-41-3 | 95    |
| 4         | Dibenzothiophene        | 184    | C12H8S           | 000132-65-0 | 94    |
| 5         | Dibenzothiophene        | 184    | C12H8S           | 000132-65-0 | 91    |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9A09

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

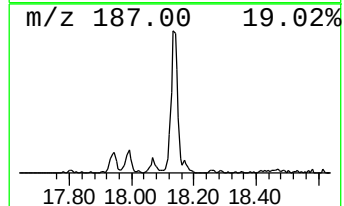
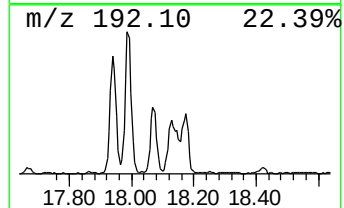
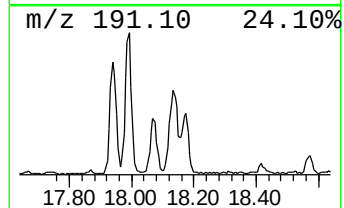
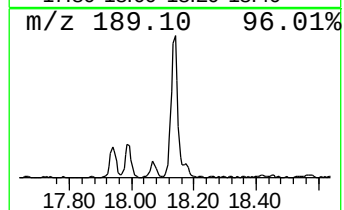
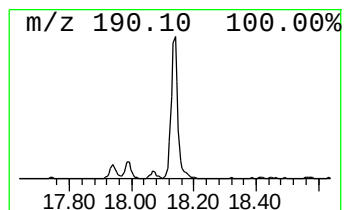
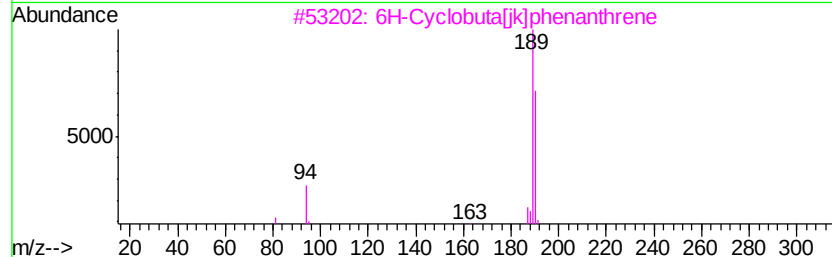
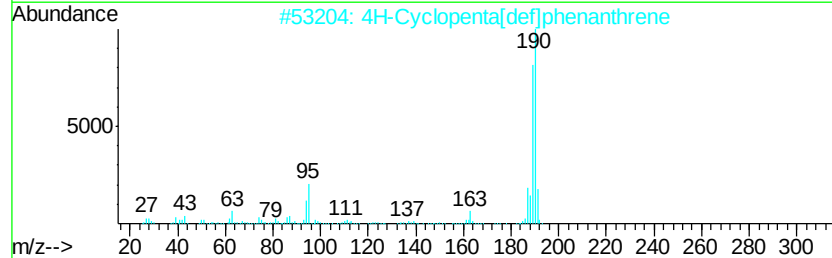
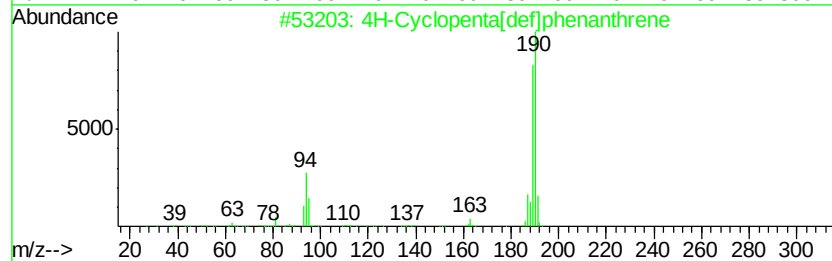
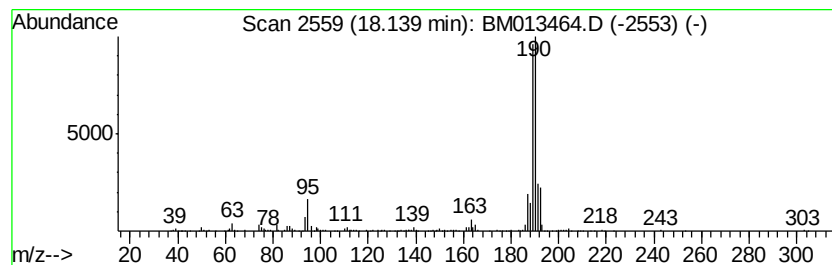
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.14 | 5.03 ng/ul | 983979 | Phenanthrene-d10 | 17.07 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-----------|-------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 91   |
| 2       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 72   |
| 3       |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10    | 083469-43-6 | 64   |
| 4       |   | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O | 306936-57-2 | 59   |
| 5       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 58   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

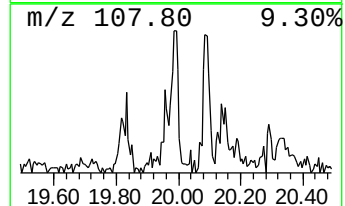
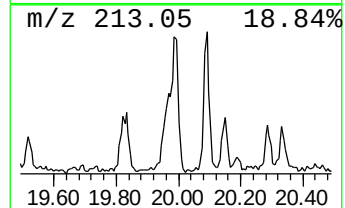
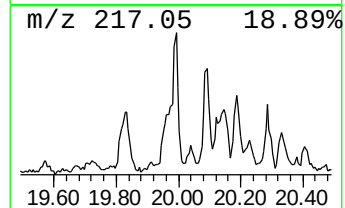
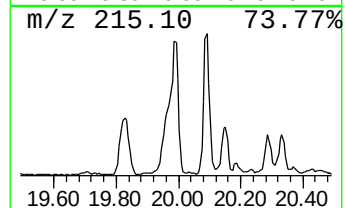
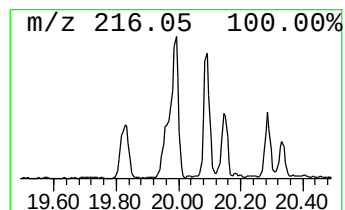
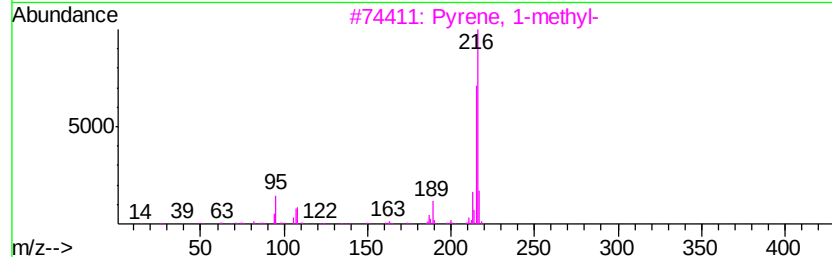
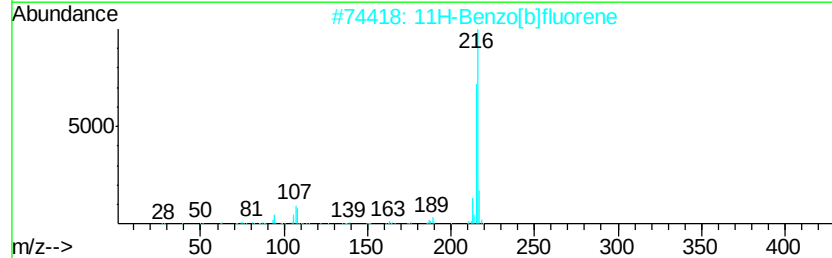
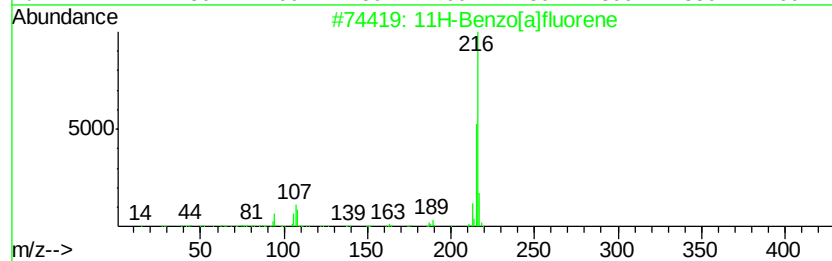
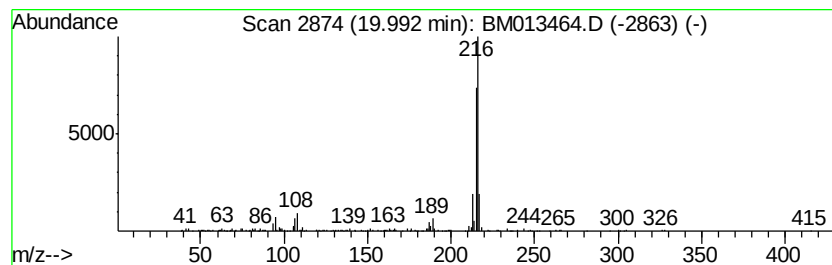
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 11H-Benzo[a]fluorene Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.99 | 3.64 ng/ul | 834259 | Chrysene-d12     | 21.26 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 97   |
| 2    |    | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 96   |
| 3    |    | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 4    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 5    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 87   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

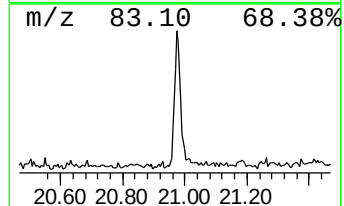
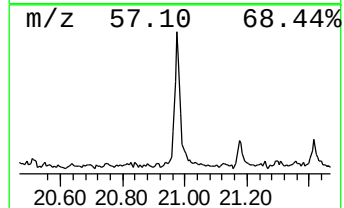
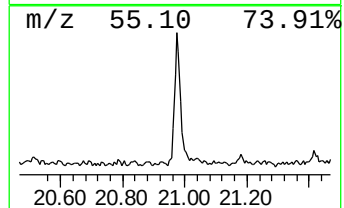
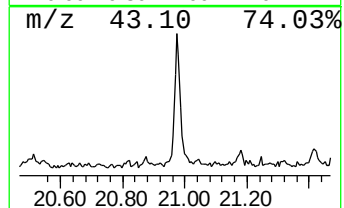
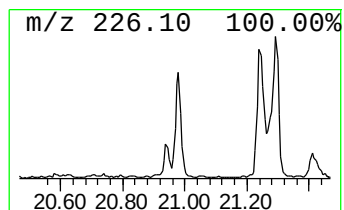
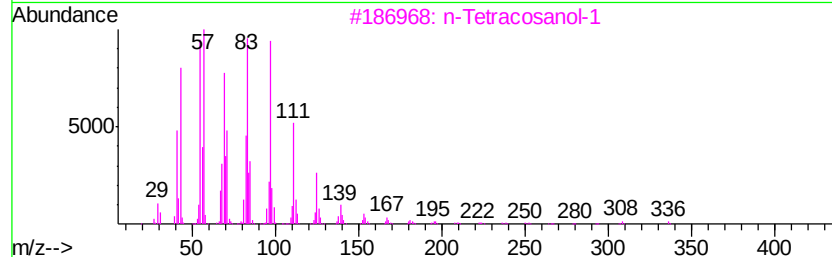
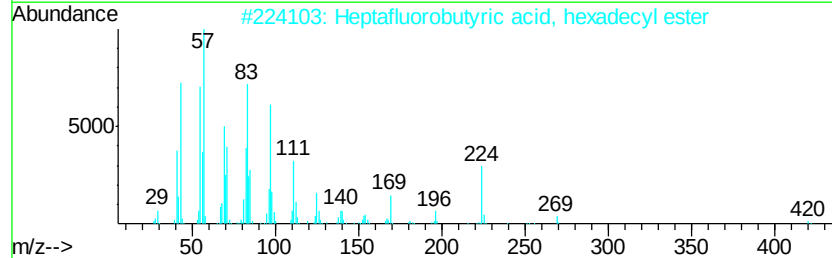
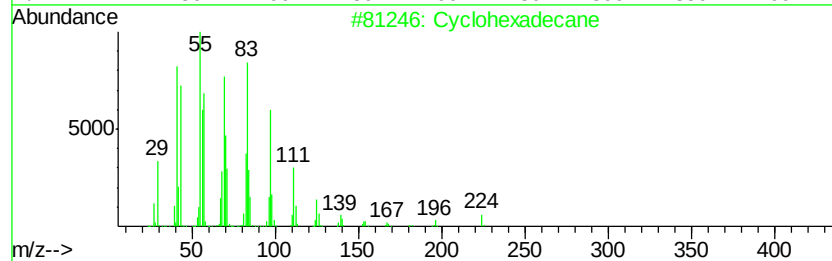
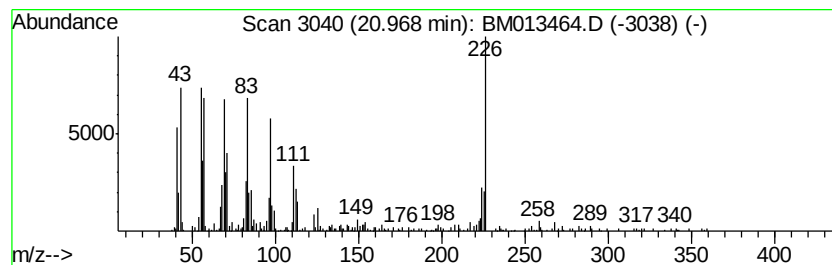
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Cyclic20.97 Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.97 | 3.35 ng/ul | 767954 | Chrysene-d12     | 21.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Cyclohexadecane                     | 224 | C16H32     | 000295-65-8 | 81   |
| 2    |    | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 55   |
| 3    |    | n-Tetracosanol-1                    | 354 | C24H50O    | 000506-51-4 | 50   |
| 4    |    | Octacosanol                         | 410 | C28H58O    | 000557-61-9 | 50   |
| 5    |    | Octacosyl acetate                   | 452 | C30H60O2   | 018206-97-8 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

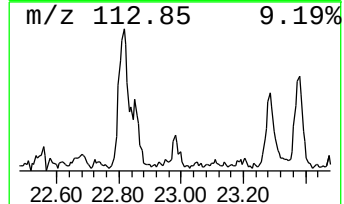
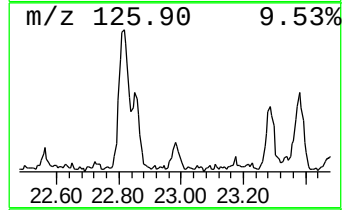
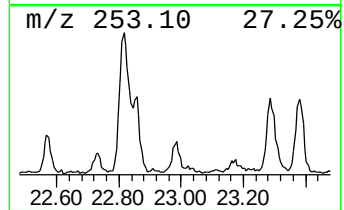
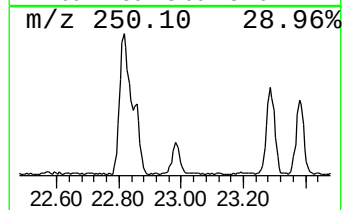
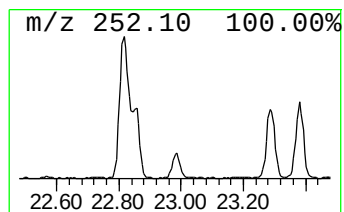
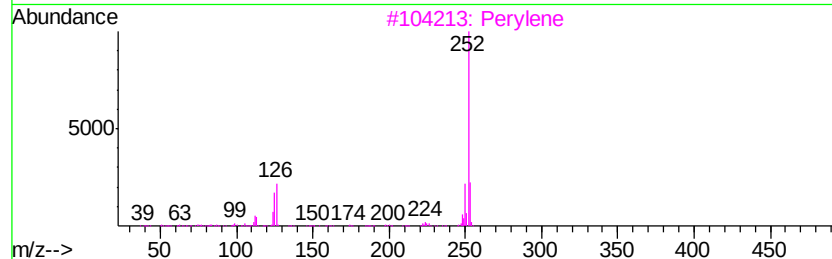
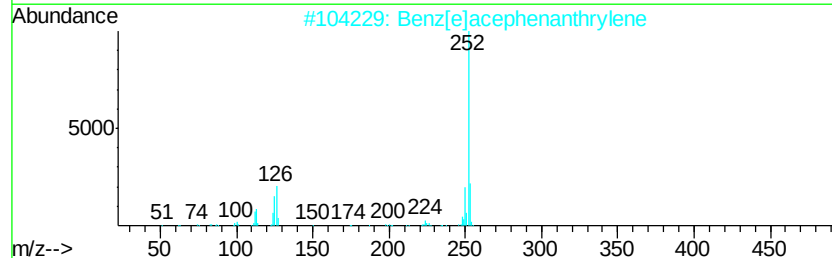
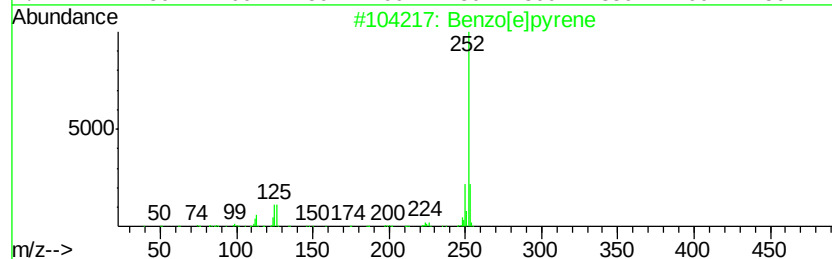
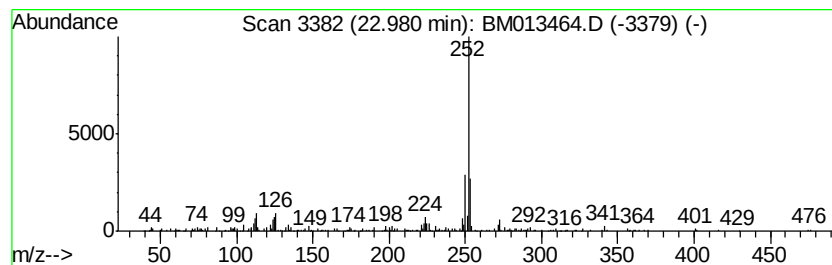
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Benzo[e]pyrene Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.98 | 2.37 ng/ul | 288302 | Perylene-d12     | 23.48 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 81   |
| 2       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 76   |
| 3       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 76   |
| 4       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 70   |
| 5       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 68   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121517\  
Data File : BM013464.D  
Acq On : 16 Dec 2017 06:26  
Operator : SJ/JU  
Sample : I6775-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9A09

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Dibenzofuran, 4-m... | 15.66 | 2.0     | ng/ul | 363498   | 3                     | 14.32 | 3628850 | 20.0 |
| [1,1'-Biphenyl]-4... | 15.81 | 2.7     | ng/ul | 526771   | 4                     | 17.07 | 3910620 | 20.0 |
| Dibenzothiophene     | 16.89 | 3.0     | ng/ul | 594854   | 4                     | 17.07 | 3910620 | 20.0 |
| 4H-Cyclopenta[def... | 18.14 | 5.0     | ng/ul | 983979   | 4                     | 17.07 | 3910620 | 20.0 |
| 11H-Benzo[a]fluorene | 19.99 | 3.6     | ng/ul | 834259   | 5                     | 21.26 | 4582200 | 20.0 |
| (DEL) Alkane: Cyc... | 20.97 | 3.4     | ng/ul | 767954   | 5                     | 21.26 | 4582200 | 20.0 |
| Benzo[e]pyrene       | 22.98 | 2.4     | ng/ul | 288302   | 6                     | 23.48 | 2428830 | 20.0 |