

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
 Data File : BM017810.D  
 Acq On : 29 Nov 2018 23:46  
 Operator : JU/SJ  
 Sample : J6027-11  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB4R0

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.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         | 3.022       | 3             | 6           | 8            | rVV2     | 29979          | 27799         | 0.47%           | 0.055%        |
| 2         | 3.046       | 8             | 10          | 12           | rVV3     | 13062          | 11790         | 0.20%           | 0.023%        |
| 3         | 3.069       | 12            | 14          | 16           | rVV      | 22620          | 18641         | 0.32%           | 0.037%        |
| 4         | 3.105       | 16            | 20          | 27           | rVB      | 603642         | 604582        | 10.31%          | 1.189%        |
| 5         | 3.422       | 71            | 74          | 80           | rVB3     | 18449          | 20894         | 0.36%           | 0.041%        |
| 6         | 3.875       | 145           | 151         | 156          | rBV3     | 7044           | 10518         | 0.18%           | 0.021%        |
| 7         | 7.587       | 773           | 782         | 801          | rBV      | 941253         | 1600141       | 27.28%          | 3.146%        |
| 8         | 10.357      | 1245          | 1253        | 1275         | rBV      | 1233932        | 2352869       | 40.11%          | 4.627%        |
| 9         | 12.057      | 1537          | 1542        | 1549         | rBV2     | 10113          | 24795         | 0.42%           | 0.049%        |
| 10        | 12.269      | 1569          | 1578        | 1587         | rBV2     | 17116          | 43786         | 0.75%           | 0.086%        |
| 11        | 13.410      | 1766          | 1772        | 1779         | rBV3     | 14829          | 40191         | 0.69%           | 0.079%        |
| 12        | 13.557      | 1790          | 1797        | 1802         | rBV3     | 33757          | 66300         | 1.13%           | 0.130%        |
| 13        | 13.610      | 1802          | 1806        | 1810         | rVV3     | 18727          | 24105         | 0.41%           | 0.047%        |
| 14        | 13.716      | 1818          | 1824        | 1830         | rBV5     | 8417           | 15833         | 0.27%           | 0.031%        |
| 15        | 13.792      | 1830          | 1837        | 1841         | rBV5     | 17636          | 33734         | 0.58%           | 0.066%        |
| 16        | 13.957      | 1856          | 1865        | 1873         | rBV      | 65790          | 107459        | 1.83%           | 0.211%        |
| 17        | 14.145      | 1890          | 1897        | 1900         | rBV5     | 5753           | 9301          | 0.16%           | 0.018%        |
| 18        | 14.233      | 1906          | 1912        | 1919         | rBV2     | 1999813        | 3131196       | 53.38%          | 6.157%        |
| 19        | 14.298      | 1919          | 1923        | 1933         | rVB      | 128131         | 203479        | 3.47%           | 0.400%        |
| 20        | 14.463      | 1945          | 1951        | 1957         | rBV4     | 7787           | 16242         | 0.28%           | 0.032%        |
| 21        | 14.545      | 1960          | 1965        | 1971         | rBV4     | 11898          | 21119         | 0.36%           | 0.042%        |
| 22        | 14.645      | 1974          | 1982        | 1990         | rBV      | 94645          | 174931        | 2.98%           | 0.344%        |
| 23        | 14.721      | 1990          | 1995        | 1999         | rVV3     | 24753          | 39726         | 0.68%           | 0.078%        |
| 24        | 14.863      | 2011          | 2019        | 2025         | rBV3     | 24715          | 48516         | 0.83%           | 0.095%        |
| 25        | 14.916      | 2025          | 2028        | 2033         | rVB3     | 18060          | 25939         | 0.44%           | 0.051%        |
| 26        | 15.033      | 2042          | 2048        | 2051         | rBV6     | 17246          | 33130         | 0.56%           | 0.065%        |
| 27        | 15.057      | 2051          | 2052        | 2057         | rVV5     | 10098          | 14582         | 0.25%           | 0.029%        |
| 28        | 15.104      | 2057          | 2060        | 2065         | rVB5     | 8346           | 13512         | 0.23%           | 0.027%        |
| 29        | 15.192      | 2070          | 2075        | 2078         | rBV7     | 11816          | 19497         | 0.33%           | 0.038%        |
| 30        | 15.233      | 2078          | 2082        | 2086         | rVB6     | 14825          | 18224         | 0.31%           | 0.036%        |
| 31        | 15.292      | 2086          | 2092        | 2099         | rBV2     | 230542         | 386313        | 6.59%           | 0.760%        |
| 32        | 15.416      | 2108          | 2113        | 2116         | rBV4     | 19290          | 30788         | 0.52%           | 0.061%        |
| 33        | 15.457      | 2116          | 2120        | 2124         | rVV4     | 32358          | 53724         | 0.92%           | 0.106%        |
| 34        | 15.504      | 2124          | 2128        | 2131         | rVV6     | 21517          | 35355         | 0.60%           | 0.070%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 15.545 | 2133 | 2135 | 2137 | rVV2 | 12959   | 13993   | 0.24%  | 0.028% |
| 36 | 15.592 | 2138 | 2143 | 2151 | rVB  | 65183   | 111579  | 1.90%  | 0.219% |
| 37 | 15.745 | 2163 | 2169 | 2178 | rBV  | 59400   | 143236  | 2.44%  | 0.282% |
| 38 | 15.833 | 2181 | 2184 | 2189 | rVB4 | 18043   | 26724   | 0.46%  | 0.053% |
| 39 | 15.974 | 2201 | 2208 | 2214 | rVB9 | 32465   | 82048   | 1.40%  | 0.161% |
| 40 | 16.074 | 2222 | 2225 | 2226 | rBV2 | 10633   | 11282   | 0.19%  | 0.022% |
| 41 | 16.098 | 2226 | 2229 | 2234 | rVB4 | 17994   | 28582   | 0.49%  | 0.056% |
| 42 | 16.145 | 2234 | 2237 | 2241 | rVB5 | 7835    | 9544    | 0.16%  | 0.019% |
| 43 | 16.186 | 2241 | 2244 | 2247 | rBV5 | 7443    | 11490   | 0.20%  | 0.023% |
| 44 | 16.304 | 2254 | 2264 | 2268 | rBV2 | 81338   | 169608  | 2.89%  | 0.334% |
| 45 | 16.351 | 2268 | 2272 | 2276 | rVB3 | 30424   | 41357   | 0.71%  | 0.081% |
| 46 | 16.451 | 2283 | 2289 | 2293 | rVB4 | 33466   | 56693   | 0.97%  | 0.111% |
| 47 | 16.527 | 2295 | 2302 | 2306 | rBV2 | 63864   | 112164  | 1.91%  | 0.221% |
| 48 | 16.568 | 2306 | 2309 | 2313 | rVV2 | 42846   | 49214   | 0.84%  | 0.097% |
| 49 | 16.657 | 2320 | 2324 | 2329 | rVB4 | 19060   | 32724   | 0.56%  | 0.064% |
| 50 | 16.721 | 2330 | 2335 | 2344 | rVV3 | 58606   | 156126  | 2.66%  | 0.307% |
| 51 | 16.810 | 2346 | 2350 | 2359 | rVV  | 124487  | 208285  | 3.55%  | 0.410% |
| 52 | 16.992 | 2374 | 2381 | 2384 | rBV  | 2236844 | 3341416 | 56.96% | 6.570% |
| 53 | 17.033 | 2384 | 2388 | 2396 | rVV  | 2314578 | 3086138 | 52.61% | 6.068% |
| 54 | 17.127 | 2399 | 2404 | 2409 | rVV  | 250017  | 380591  | 6.49%  | 0.748% |
| 55 | 17.180 | 2409 | 2413 | 2419 | rVB6 | 52652   | 102931  | 1.75%  | 0.202% |
| 56 | 17.239 | 2419 | 2423 | 2424 | rBV4 | 13330   | 13623   | 0.23%  | 0.027% |
| 57 | 17.274 | 2426 | 2429 | 2431 | rBV4 | 11039   | 12632   | 0.22%  | 0.025% |
| 58 | 17.374 | 2442 | 2446 | 2448 | rVV4 | 28774   | 36312   | 0.62%  | 0.071% |
| 59 | 17.433 | 2452 | 2456 | 2461 | rVV3 | 30944   | 56411   | 0.96%  | 0.111% |
| 60 | 17.515 | 2466 | 2470 | 2475 | rVB  | 68095   | 79912   | 1.36%  | 0.157% |
| 61 | 17.574 | 2477 | 2480 | 2483 | rBV2 | 34645   | 46284   | 0.79%  | 0.091% |
| 62 | 17.709 | 2498 | 2503 | 2510 | rVV5 | 107241  | 171189  | 2.92%  | 0.337% |
| 63 | 17.786 | 2512 | 2516 | 2521 | rVV  | 219592  | 293062  | 5.00%  | 0.576% |
| 64 | 17.868 | 2525 | 2530 | 2534 | rVV  | 295146  | 460894  | 7.86%  | 0.906% |
| 65 | 17.915 | 2534 | 2538 | 2544 | rVB  | 426631  | 624709  | 10.65% | 1.228% |
| 66 | 18.057 | 2556 | 2562 | 2566 | rBV2 | 533236  | 862085  | 14.70% | 1.695% |
| 67 | 18.098 | 2566 | 2569 | 2577 | rVV2 | 207785  | 414801  | 7.07%  | 0.816% |
| 68 | 18.168 | 2577 | 2581 | 2588 | rVB2 | 259601  | 361689  | 6.17%  | 0.711% |
| 69 | 18.274 | 2595 | 2599 | 2603 | rVB6 | 29161   | 45752   | 0.78%  | 0.090% |
| 70 | 18.374 | 2611 | 2616 | 2623 | rBV  | 237096  | 368172  | 6.28%  | 0.724% |
| 71 | 18.498 | 2634 | 2637 | 2639 | rVV2 | 31301   | 30625   | 0.52%  | 0.060% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Title : SVOA CALIBRATION

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|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 18.545 | 2643 | 2645 | 2649 | rVB4 | 15563   | 17052   | 0.29%   | 0.034%  |
| 73  | 18.592 | 2650 | 2653 | 2655 | rBV4 | 36875   | 48824   | 0.83%   | 0.096%  |
| 74  | 18.621 | 2655 | 2658 | 2663 | rVV  | 85602   | 113066  | 1.93%   | 0.222%  |
| 75  | 18.674 | 2663 | 2667 | 2671 | rVV2 | 149587  | 226684  | 3.86%   | 0.446%  |
| 76  | 18.709 | 2671 | 2673 | 2678 | rVB  | 73996   | 91969   | 1.57%   | 0.181%  |
| 77  | 18.792 | 2683 | 2687 | 2692 | rBV  | 201798  | 301689  | 5.14%   | 0.593%  |
| 78  | 18.851 | 2692 | 2697 | 2701 | rBV4 | 118117  | 238933  | 4.07%   | 0.470%  |
| 79  | 18.886 | 2701 | 2703 | 2707 | rVB  | 88213   | 94019   | 1.60%   | 0.185%  |
| 80  | 18.933 | 2707 | 2711 | 2714 | rBV  | 93471   | 157991  | 2.69%   | 0.311%  |
| 81  | 19.056 | 2726 | 2732 | 2739 | rBV  | 4104532 | 5865938 | 100.00% | 11.534% |
| 82  | 19.127 | 2739 | 2744 | 2747 | rVV2 | 120964  | 205278  | 3.50%   | 0.404%  |
| 83  | 19.162 | 2747 | 2750 | 2754 | rVB3 | 53342   | 72260   | 1.23%   | 0.142%  |
| 84  | 19.303 | 2770 | 2774 | 2778 | rBV  | 118400  | 153971  | 2.62%   | 0.303%  |
| 85  | 19.392 | 2784 | 2789 | 2790 | rBV  | 620400  | 731280  | 12.47%  | 1.438%  |
| 86  | 19.421 | 2790 | 2794 | 2802 | rVV  | 2687786 | 3919891 | 66.82%  | 7.708%  |
| 87  | 19.498 | 2803 | 2807 | 2814 | rVB2 | 203069  | 309093  | 5.27%   | 0.608%  |
| 88  | 19.609 | 2822 | 2826 | 2831 | rBV  | 193551  | 274635  | 4.68%   | 0.540%  |
| 89  | 19.756 | 2846 | 2851 | 2858 | rBV4 | 264866  | 638610  | 10.89%  | 1.256%  |
| 90  | 19.892 | 2869 | 2874 | 2875 | rBV2 | 182216  | 271282  | 4.62%   | 0.533%  |
| 91  | 19.921 | 2876 | 2879 | 2887 | rVB2 | 694171  | 974235  | 16.61%  | 1.916%  |
| 92  | 20.027 | 2892 | 2897 | 2900 | rBV  | 520513  | 664363  | 11.33%  | 1.306%  |
| 93  | 20.080 | 2901 | 2906 | 2910 | rBV2 | 215827  | 390568  | 6.66%   | 0.768%  |
| 94  | 20.839 | 3032 | 3035 | 3038 | rBV  | 252571  | 309683  | 5.28%   | 0.609%  |
| 95  | 20.880 | 3039 | 3042 | 3045 | rVV  | 349274  | 431173  | 7.35%   | 0.848%  |
| 96  | 20.915 | 3045 | 3048 | 3052 | rVB  | 240332  | 296794  | 5.06%   | 0.584%  |
| 97  | 21.192 | 3088 | 3095 | 3099 | rBV2 | 2806082 | 5848368 | 99.70%  | 11.500% |
| 98  | 21.233 | 3099 | 3102 | 3111 | rVB  | 1809077 | 2347486 | 40.02%  | 4.616%  |
| 99  | 22.727 | 3352 | 3356 | 3361 | rBV  | 999230  | 2078343 | 35.43%  | 4.087%  |
| 100 | 23.374 | 3461 | 3466 | 3475 | rBV  | 1299248 | 2449365 | 41.76%  | 4.816%  |

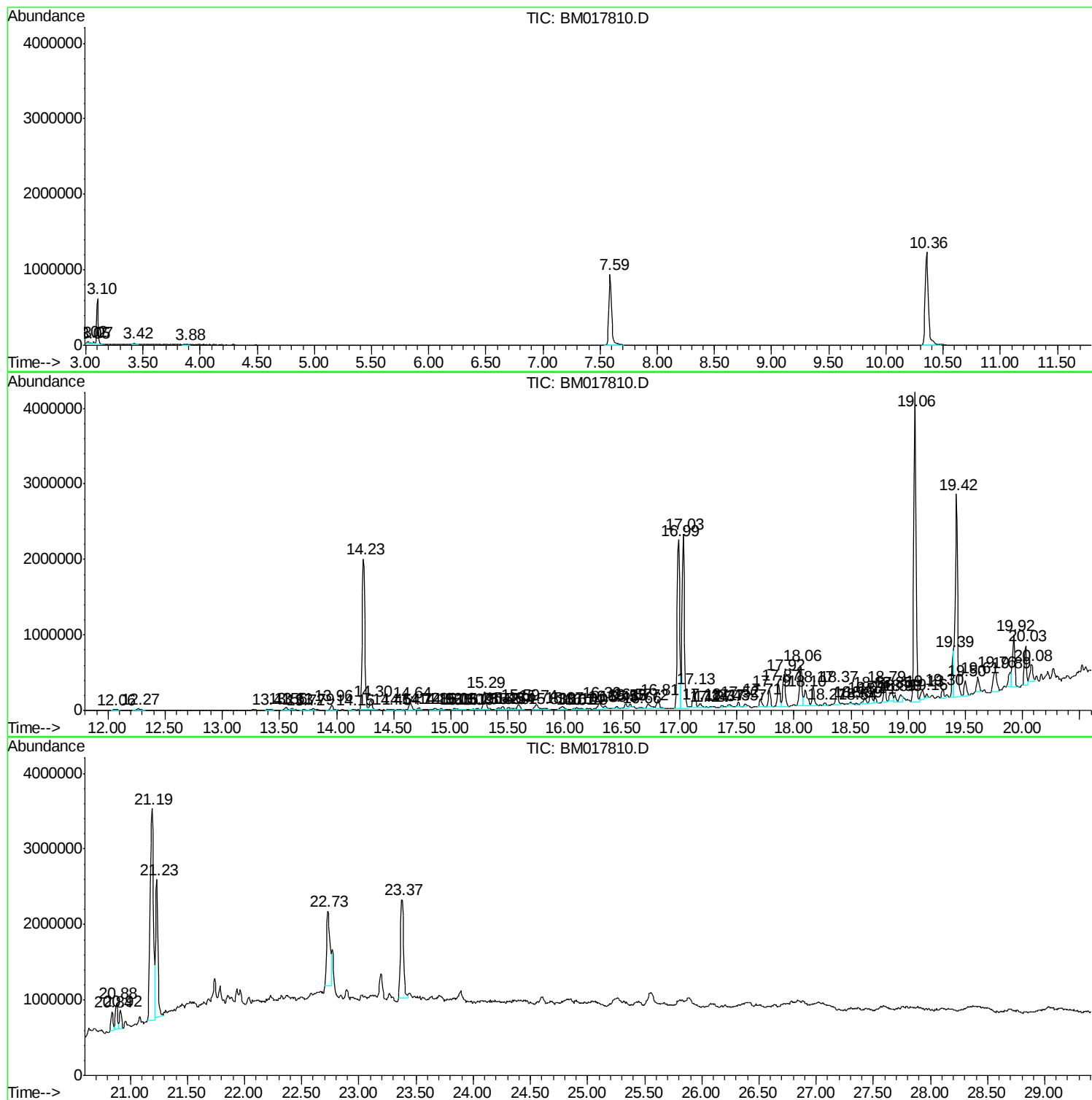
Sum of corrected areas: 50855731

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION

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



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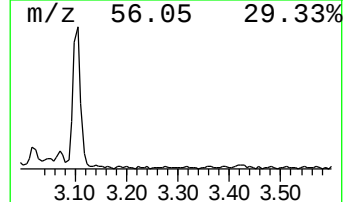
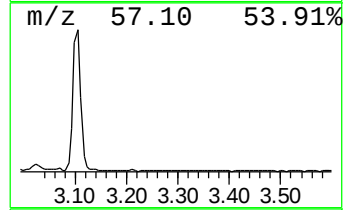
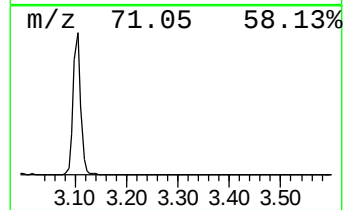
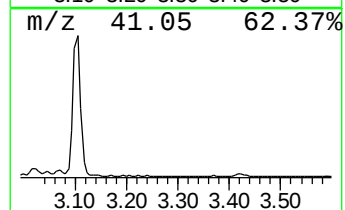
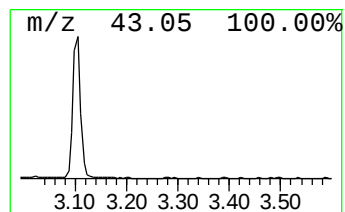
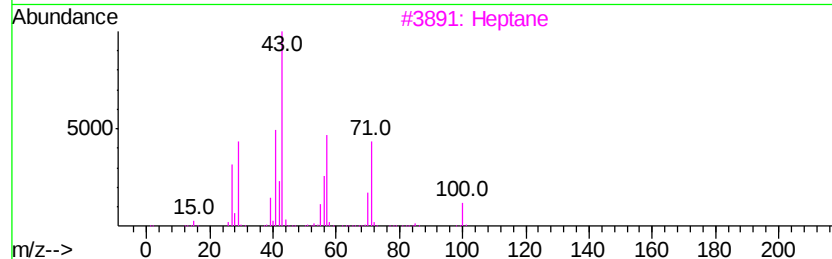
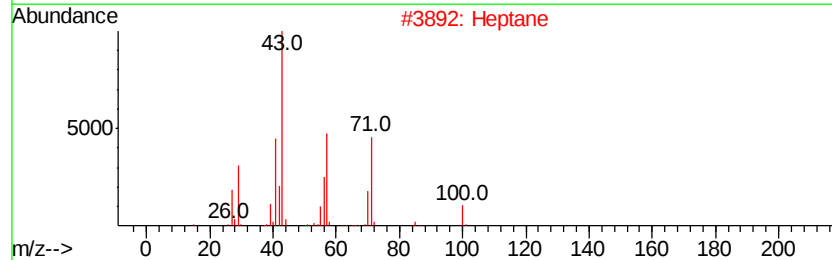
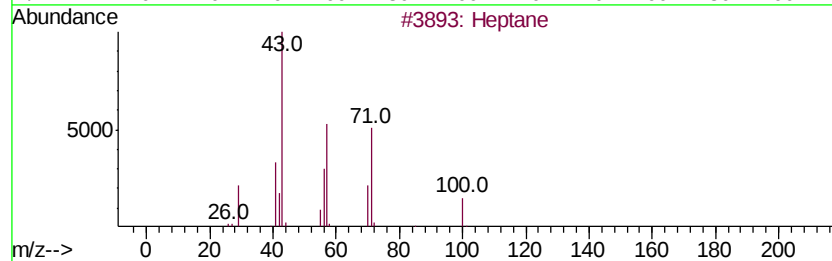
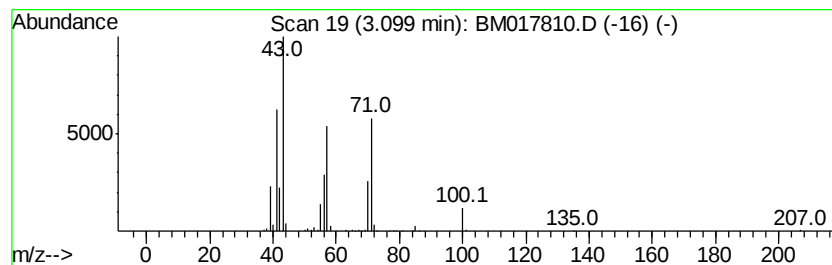
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.10 | 7.56 ng/ul | 604582 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane           | 100 | C7H16   | 000142-82-5 | 91   |
| 2    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 90   |
| 3    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 90   |
| 4    |    | Heptane           | 100 | C7H16   | 000142-82-5 | 86   |
| 5    |    | Decane, 4-methyl- | 156 | C11H24  | 002847-72-5 | 45   |



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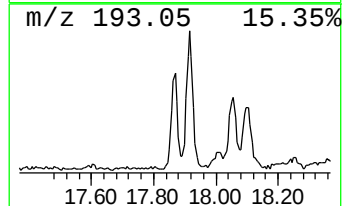
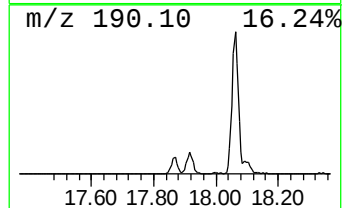
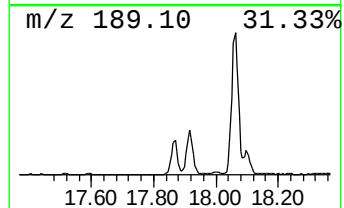
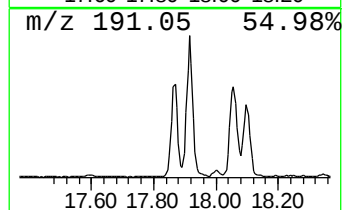
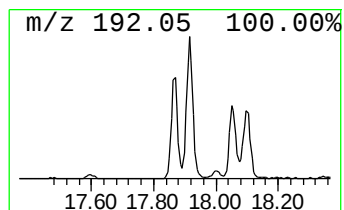
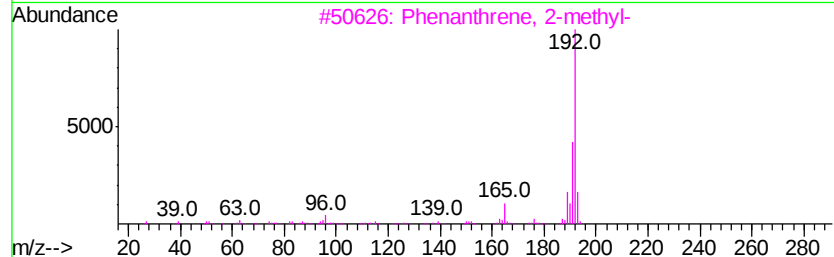
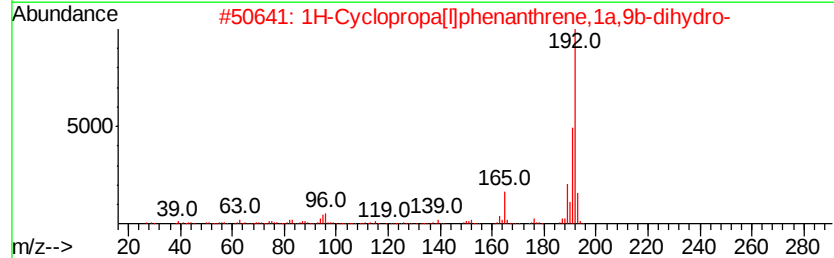
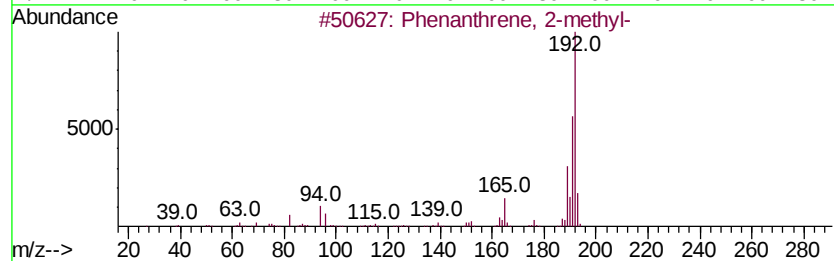
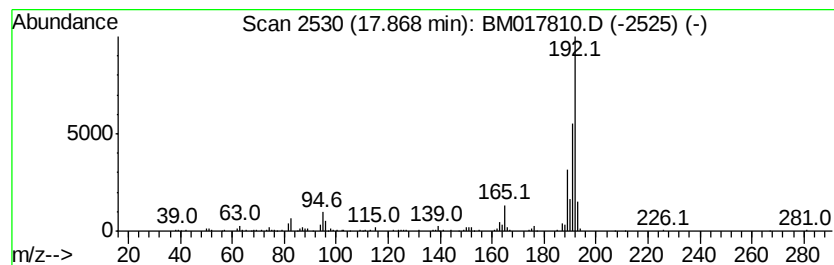
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\*\*\*\*\*  
Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.87 | 2.76 ng/ul | 460894 | Phenanthrene-d10 | 16.99 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION

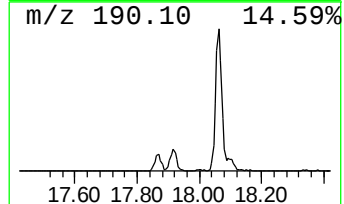
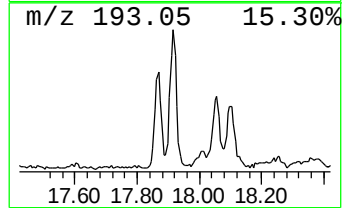
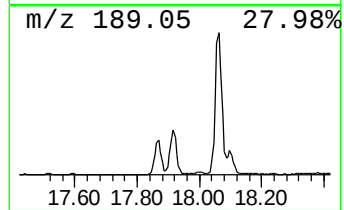
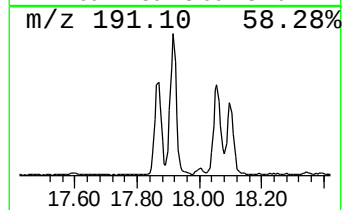
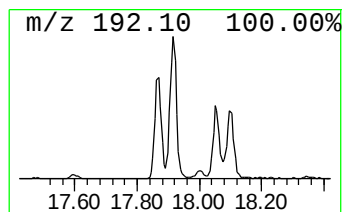
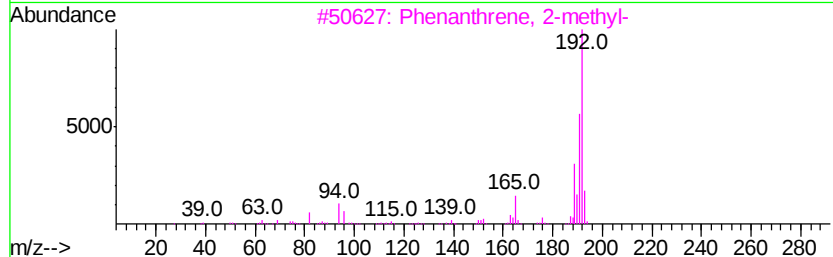
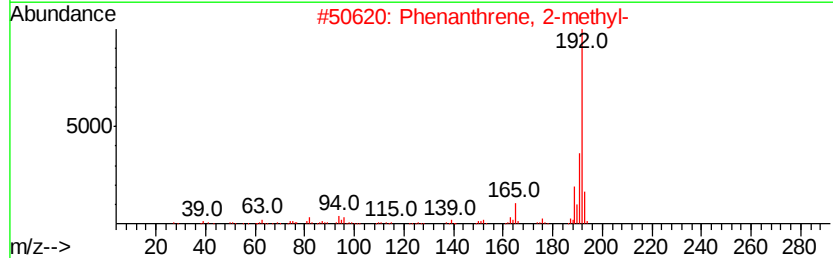
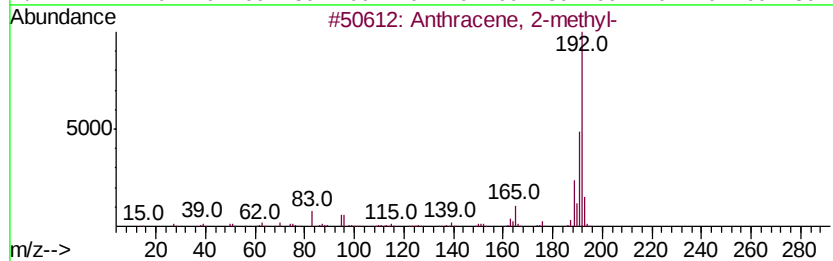
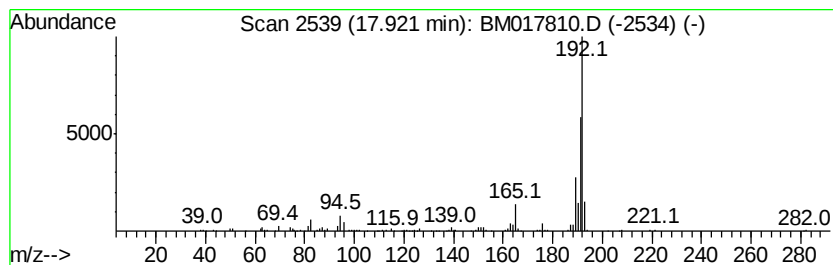
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Anthracene, 2-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.92 | 3.74 ng/ul | 624709 | Phenanthrene-d10 | 16.99 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 97   |
| 2    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 95   |
| 5    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

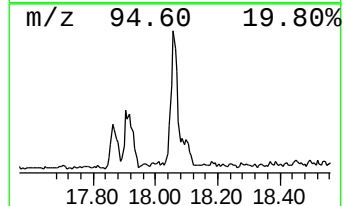
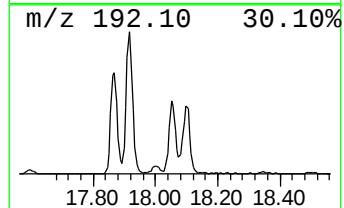
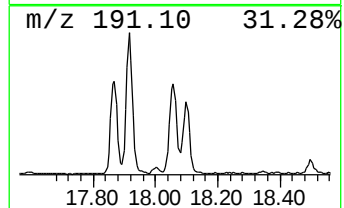
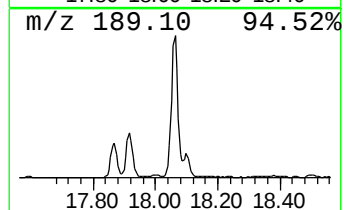
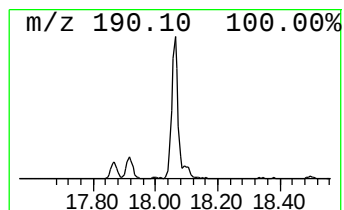
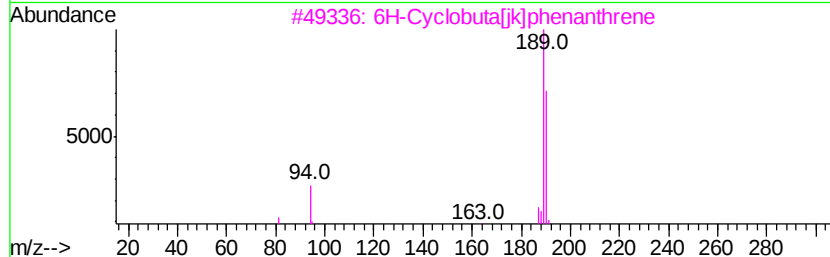
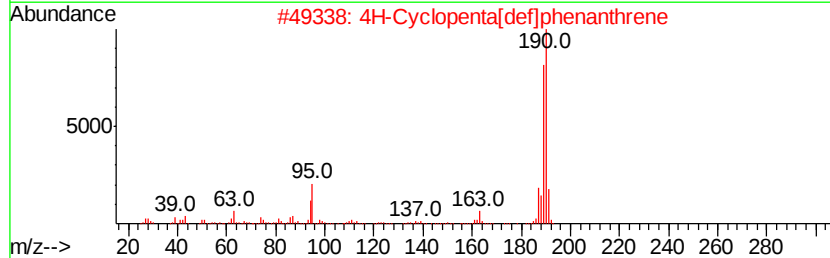
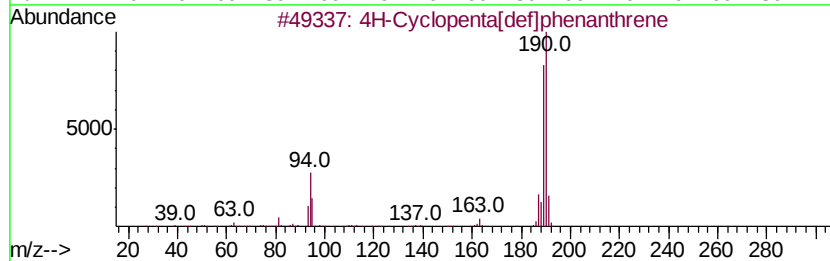
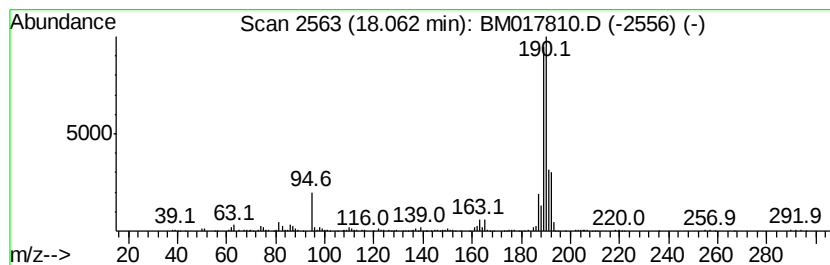
Instrument :  
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ClientSampleId :  
CB4R0

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Quant Title : SVOA CALIBRATION

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

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

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 18.06     | 5.16 ng/ul                     | 862085 | Phenanthrene-d10 | 16.99       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 92   |
| 2         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 60   |
| 3         | 6H-Cyclobuta[ik]phenanthrene   | 190    | C15H10           | 083469-43-6 | 58   |
| 4         | 4H-Cyclopenta[def]phenanthrene | 190    | C15H10           | 000203-64-5 | 43   |
| 5         | 5H-Dibenzo[a,d]cycloheptene    | 192    | C15H12           | 000256-81-5 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION

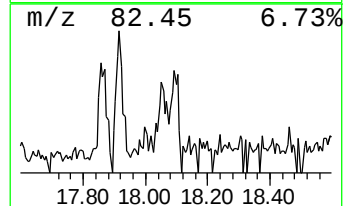
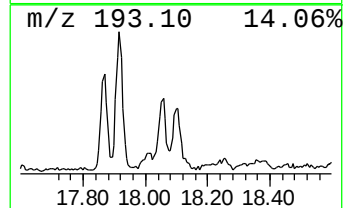
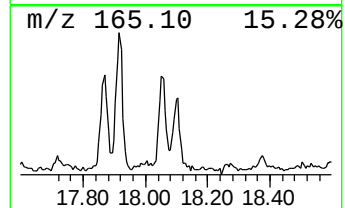
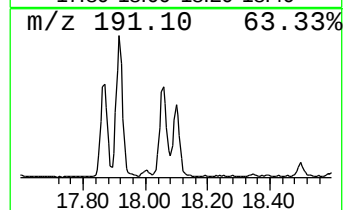
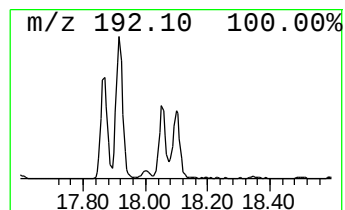
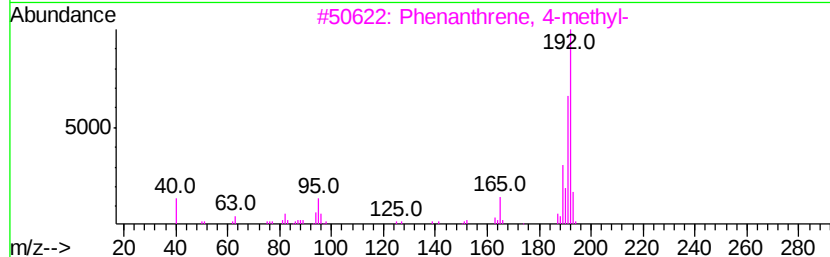
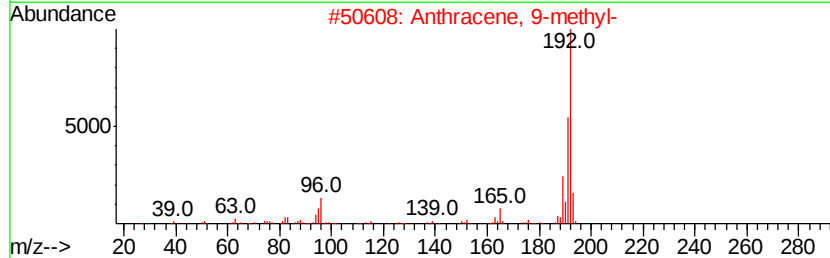
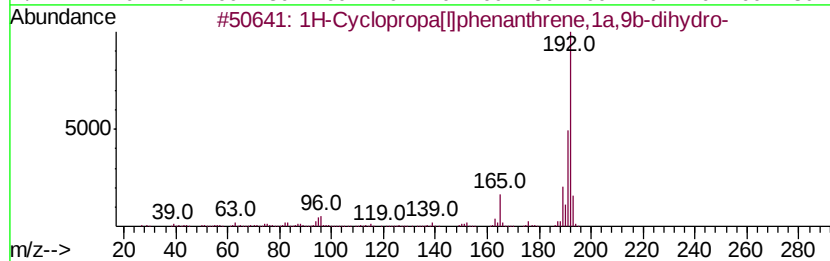
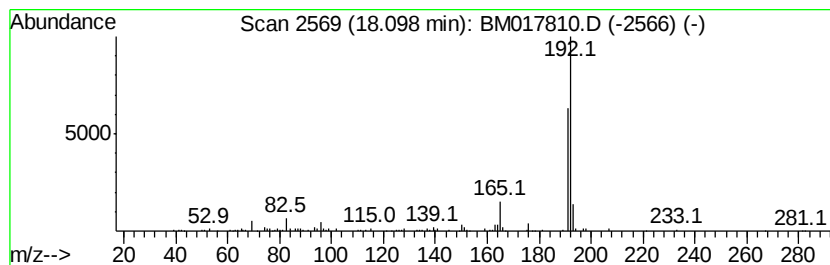
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.10 | 2.48 ng/ul | 414801 | Phenanthrene-d10 | 16.99 |

| Hit# of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------------|-----|---------|-------------|------|
| 1       |   | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 91   |
| 2       |   | Anthracene, 9-methyl-                 | 192 | C15H12  | 000779-02-2 | 91   |
| 3       |   | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 91   |
| 4       |   | 1H-Indene, 2-phenyl-                  | 192 | C15H12  | 004505-48-0 | 91   |
| 5       |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION

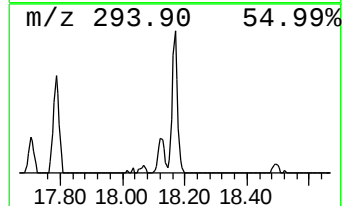
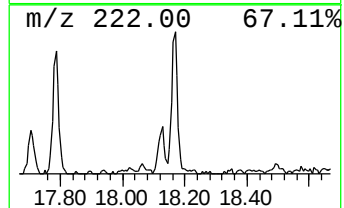
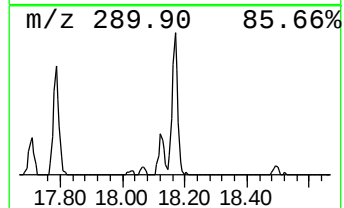
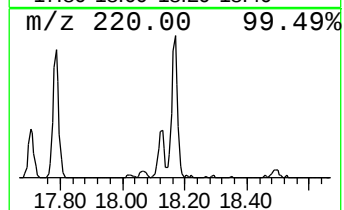
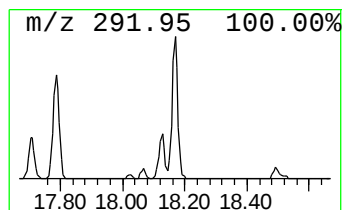
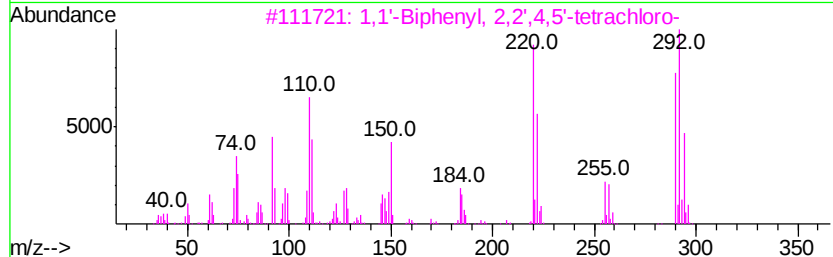
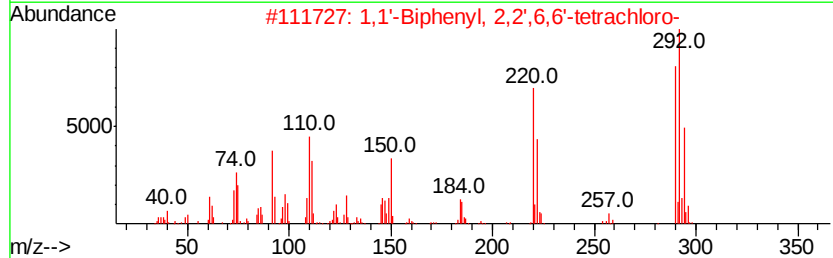
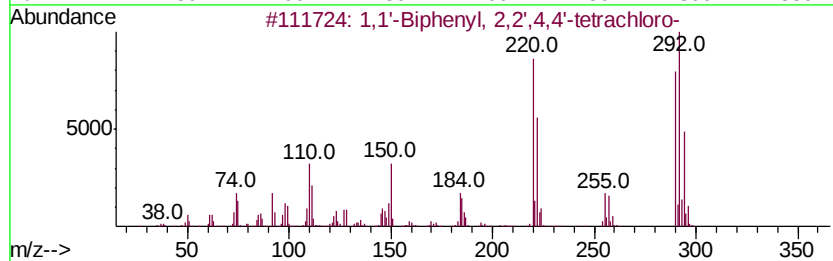
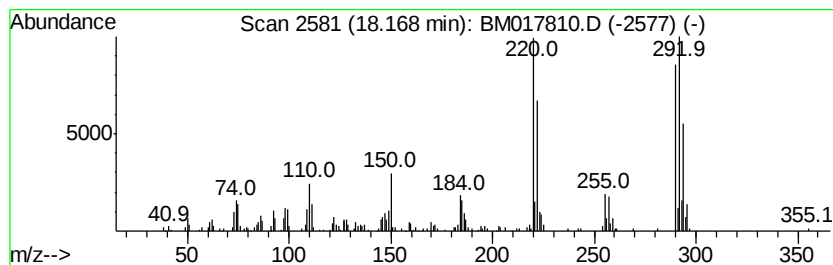
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 1,1'-Biphenyl, 2,2',4,4'-te... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.17 | 2.16 ng/ul | 361689 | Phenanthrene-d10 | 16.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290 | C12H6Cl4 | 015968-05-5 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',4,5'-tetrach... | 290 | C12H6Cl4 | 041464-40-8 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,3,4',6-tetrachl... | 290 | C12H6Cl4 | 052663-58-8 | 98   |
| 5    |    | 1,1'-Biphenyl, 3,3',4,4'-tetrach... | 290 | C12H6Cl4 | 032598-13-3 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION

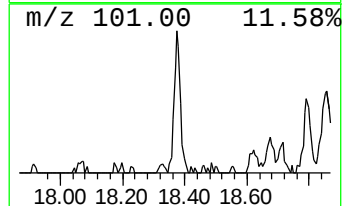
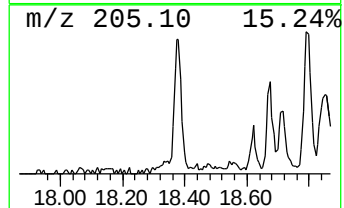
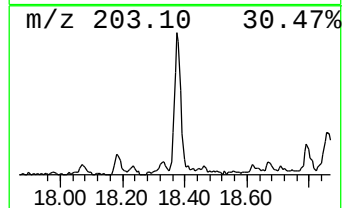
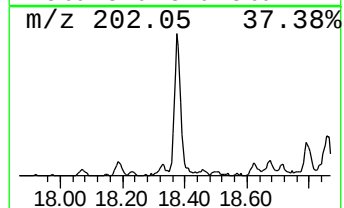
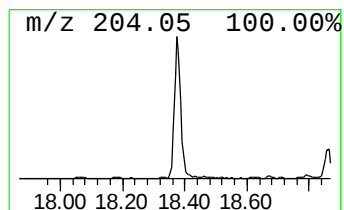
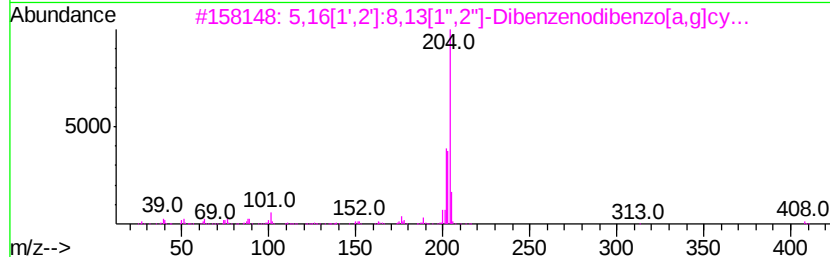
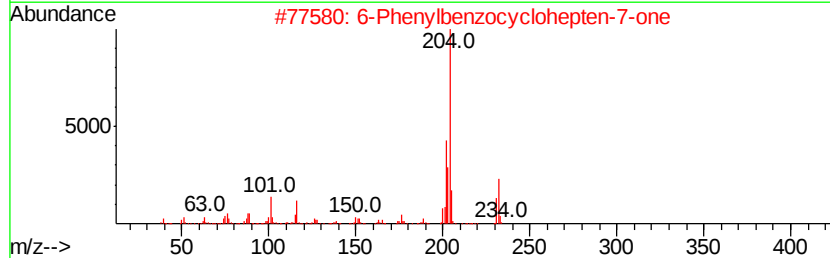
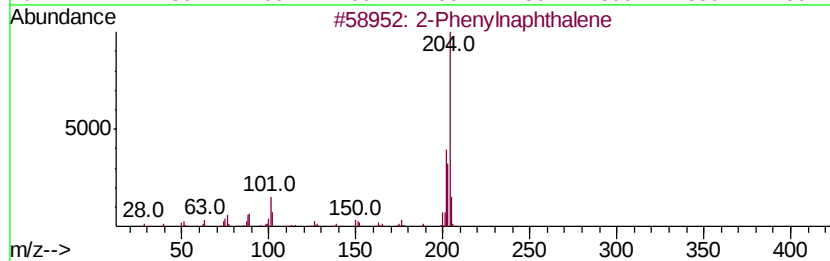
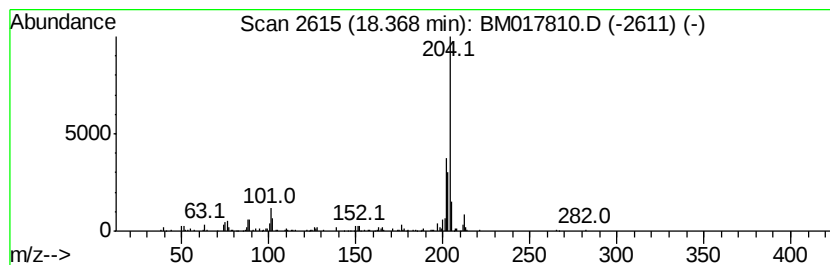
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 2-Phenylnaphthalene Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.37 | 2.20 ng/ul | 368172 | Phenanthrene-d10 | 16.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Phenylnaphthalene                 | 204 | C16H12  | 035465-71-5 | 95   |
| 2    |    | 6-Phenylbenzocyclohepten-7-one      | 232 | C17H12O | 093327-56-1 | 86   |
| 3    |    | 5,16[1',2':8,13[1'',2'']-Dibenz...  | 408 | C32H24  | 005672-97-9 | 86   |
| 4    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 81   |
| 5    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

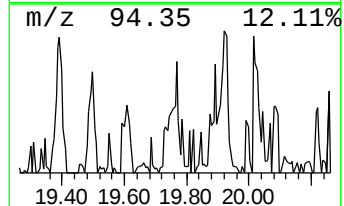
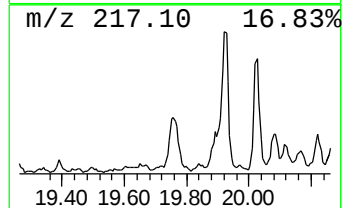
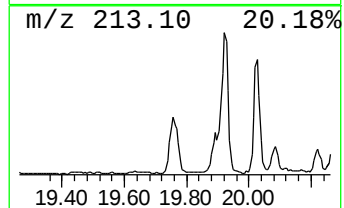
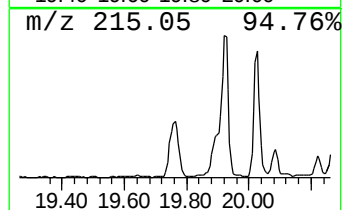
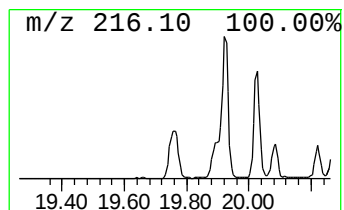
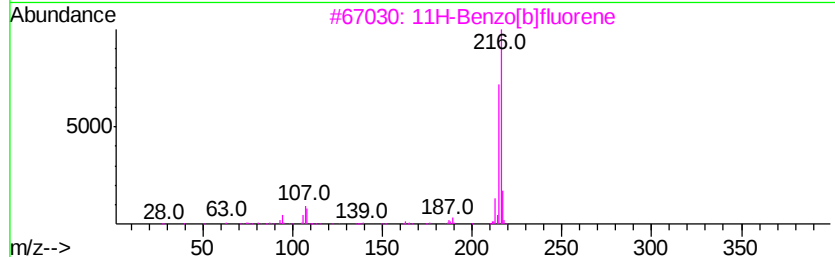
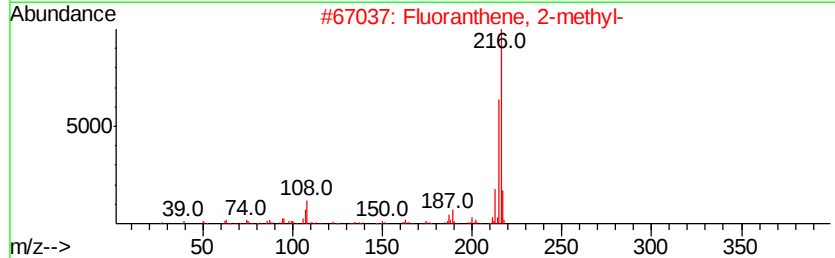
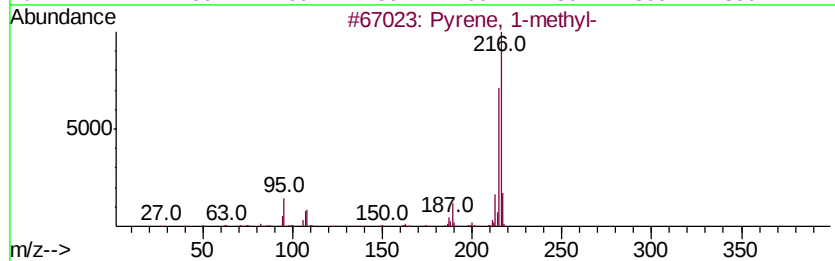
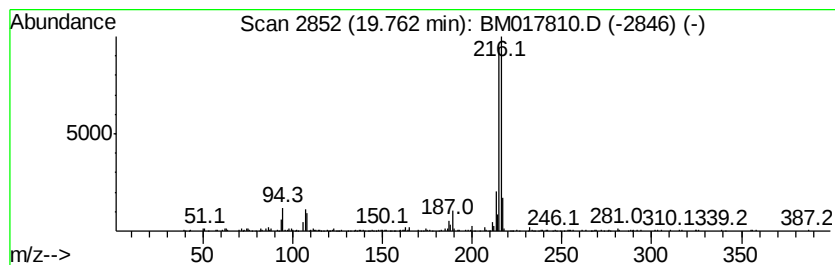
Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Pyrene, 1-methyl- Concentration Rank 9

| R.T.    | EstConc    | Area                    | Relative to ISTD | R.T.           |
|---------|------------|-------------------------|------------------|----------------|
| 19.76   | 2.18 ng/ul | 638610                  | Chrysene-d12     | 21.20          |
| Hit# of | 5          | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |            | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 97 |
| 2       |            | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 93 |
| 3       |            | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 87 |
| 4       |            | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 87 |
| 5       |            | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112918\  
Data File : BM017810.D  
Acq On : 29 Nov 2018 23:46  
Operator : JU/SJ  
Sample : J6027-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB4R0

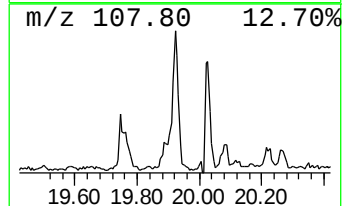
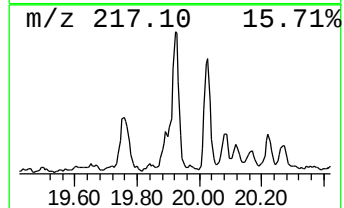
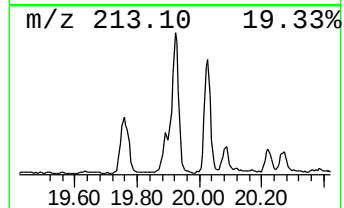
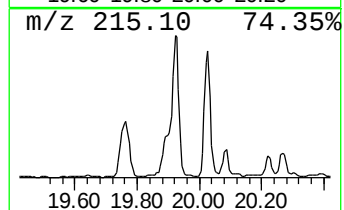
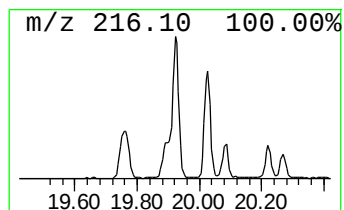
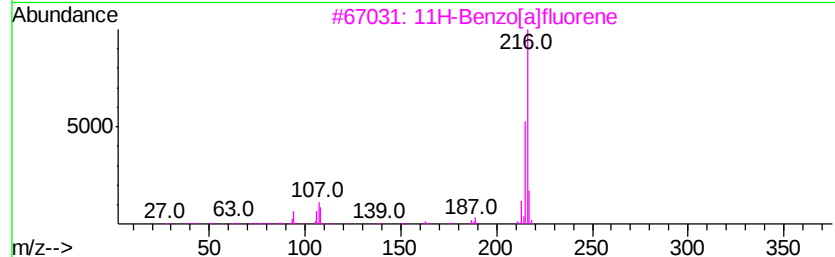
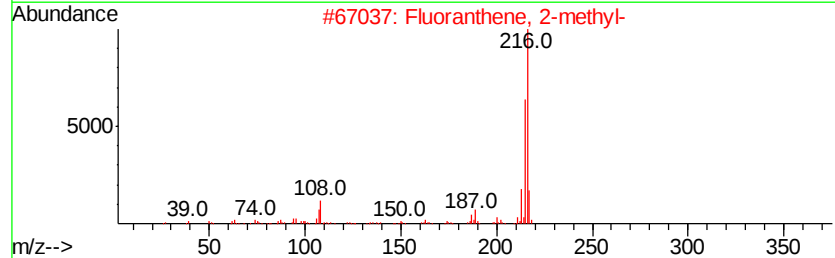
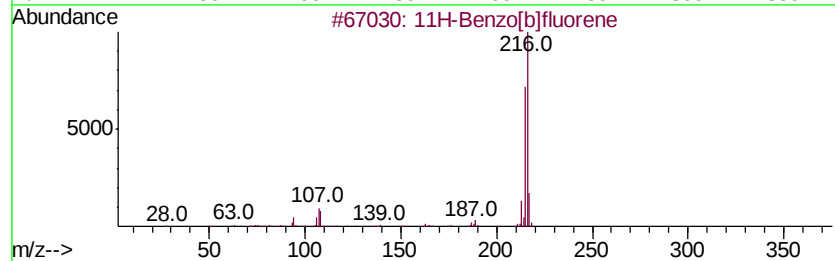
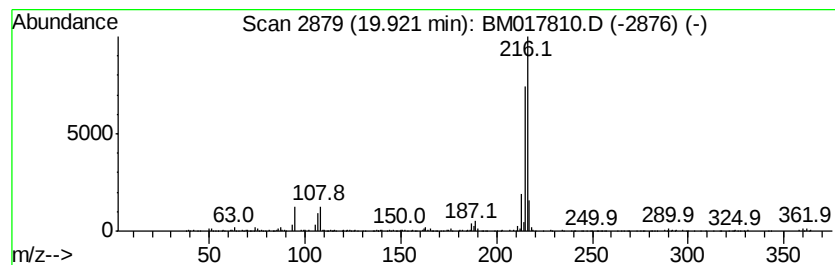
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.92 | 3.33 ng/ul | 974235 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 94   |
| 2    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 93   |
| 3    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 4    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 5    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM112918\  
 Data File : BM017810.D  
 Acq On : 29 Nov 2018 23:46  
 Operator : JU/SJ  
 Sample : J6027-11  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB4R0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.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 |
| (DEL) Alkane: Str... | 3.10  | 7.6     | ng/ul | 604582   | 1                     | 7.59  | 1600140 | 20.0 |
| Phenanthrene, 2-m... | 17.87 | 2.8     | ng/ul | 460894   | 4                     | 16.99 | 3341420 | 20.0 |
| Anthracene, 2-met... | 17.92 | 3.7     | ng/ul | 624709   | 4                     | 16.99 | 3341420 | 20.0 |
| 4H-Cyclopenta[def... | 18.06 | 5.2     | ng/ul | 862085   | 4                     | 16.99 | 3341420 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.10 | 2.5     | ng/ul | 414801   | 4                     | 16.99 | 3341420 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.17 | 2.2     | ng/ul | 361689   | 4                     | 16.99 | 3341420 | 20.0 |
| 2-Phenylnaphthalene  | 18.37 | 2.2     | ng/ul | 368172   | 4                     | 16.99 | 3341420 | 20.0 |
| Pyrene, 1-methyl-    | 19.76 | 2.2     | ng/ul | 638610   | 5                     | 21.20 | 5848370 | 20.0 |
| 11H-Benzo[b]fluorene | 19.92 | 3.3     | ng/ul | 974235   | 5                     | 21.20 | 5848370 | 20.0 |