

Data Path : Z:\HPCHEM1\BNA M\DATA\BM103017\  
 Data File : BM012588.D  
 Acq On : 31 Oct 2017 00:01  
 Operator : SJ/JU  
 Sample : I5886-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNE6

## 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-BM102417.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         | 3.863       | 127           | 132         | 136          | rBV      | 105086         | 143366        | 1.58%           | 0.140%        |
| 2         | 7.022       | 661           | 669         | 681          | rBV2     | 987512         | 1790266       | 19.69%          | 1.744%        |
| 3         | 7.186       | 691           | 697         | 704          | rBV      | 810456         | 1205834       | 13.26%          | 1.175%        |
| 4         | 7.392       | 725           | 732         | 741          | rBV      | 1062213        | 1680165       | 18.48%          | 1.637%        |
| 5         | 7.857       | 804           | 811         | 820          | rBV      | 1514316        | 2375303       | 26.12%          | 2.314%        |
| 6         | 8.557       | 924           | 930         | 939          | rBV      | 1106530        | 1747323       | 19.21%          | 1.702%        |
| 7         | 9.010       | 999           | 1007        | 1015         | rBV      | 977345         | 1589296       | 17.48%          | 1.548%        |
| 8         | 9.727       | 1120          | 1129        | 1141         | rBV      | 787566         | 1349010       | 14.83%          | 1.314%        |
| 9         | 10.269      | 1210          | 1221        | 1230         | rBV      | 1236590        | 2076379       | 22.83%          | 2.023%        |
| 10        | 10.645      | 1277          | 1285        | 1292         | rBV      | 1906921        | 3164785       | 34.80%          | 3.083%        |
| 11        | 10.780      | 1301          | 1308        | 1319         | rBV      | 825585         | 1454180       | 15.99%          | 1.417%        |
| 12        | 11.963      | 1501          | 1509        | 1516         | rBV      | 96456          | 151661        | 1.67%           | 0.148%        |
| 13        | 13.892      | 1829          | 1837        | 1842         | rBV      | 2105927        | 2872444       | 31.59%          | 2.798%        |
| 14        | 13.939      | 1842          | 1845        | 1849         | rVB      | 147987         | 191044        | 2.10%           | 0.186%        |
| 15        | 14.180      | 1875          | 1886        | 1896         | rBV      | 2391420        | 3712846       | 40.83%          | 3.617%        |
| 16        | 14.315      | 1904          | 1909        | 1918         | rVB3     | 50774          | 100046        | 1.10%           | 0.097%        |
| 17        | 14.486      | 1929          | 1938        | 1945         | rBV2     | 2685758        | 4132711       | 45.44%          | 4.026%        |
| 18        | 14.551      | 1945          | 1949        | 1957         | rVB      | 74284          | 122025        | 1.34%           | 0.119%        |
| 19        | 14.686      | 1965          | 1972        | 1983         | rBV      | 603241         | 975415        | 10.73%          | 0.950%        |
| 20        | 14.892      | 2002          | 2007        | 2014         | rVB2     | 64849          | 145354        | 1.60%           | 0.142%        |
| 21        | 15.304      | 2067          | 2077        | 2082         | rBV      | 617775         | 840493        | 9.24%           | 0.819%        |
| 22        | 15.480      | 2100          | 2107        | 2112         | rBV      | 3058005        | 4360433       | 47.95%          | 4.247%        |
| 23        | 15.533      | 2112          | 2116        | 2122         | rVB2     | 101977         | 142807        | 1.57%           | 0.139%        |
| 24        | 15.598      | 2122          | 2127        | 2135         | rBV      | 529531         | 755344        | 8.31%           | 0.736%        |
| 25        | 15.845      | 2161          | 2169        | 2174         | rBV      | 475675         | 720622        | 7.92%           | 0.702%        |
| 26        | 16.880      | 2341          | 2345        | 2351         | rVB      | 118474         | 178732        | 1.97%           | 0.174%        |
| 27        | 17.045      | 2370          | 2373        | 2379         | rVB      | 80450          | 118217        | 1.30%           | 0.115%        |
| 28        | 17.127      | 2382          | 2387        | 2394         | rBV5     | 94207          | 157548        | 1.73%           | 0.153%        |
| 29        | 17.227      | 2398          | 2404        | 2408         | rBV2     | 3508224        | 4857060       | 53.41%          | 4.731%        |
| 30        | 17.268      | 2408          | 2411        | 2416         | rVB      | 1556554        | 1961993       | 21.57%          | 1.911%        |
| 31        | 17.327      | 2416          | 2421        | 2425         | rBV      | 3182790        | 4462788       | 49.07%          | 4.347%        |
| 32        | 17.627      | 2465          | 2472        | 2477         | rBV      | 157352         | 255145        | 2.81%           | 0.249%        |
| 33        | 18.115      | 2548          | 2555        | 2558         | rBV2     | 442839         | 803665        | 8.84%           | 0.783%        |
| 34        | 18.150      | 2558          | 2561        | 2566         | rVB      | 328935         | 438113        | 4.82%           | 0.427%        |

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 Max Peaks: 100  
 Peak Location: TOP

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

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 18.233 | 2571 | 2575 | 2580 | rVB  | 72142   | 99191   | 1.09%   | 0.097% |
| 36 | 18.297 | 2580 | 2586 | 2590 | rBV3 | 247288  | 483797  | 5.32%   | 0.471% |
| 37 | 18.333 | 2590 | 2592 | 2598 | rVB  | 176287  | 207268  | 2.28%   | 0.202% |
| 38 | 18.415 | 2601 | 2606 | 2609 | rBV5 | 78946   | 130317  | 1.43%   | 0.127% |
| 39 | 18.603 | 2633 | 2638 | 2641 | rBV  | 176893  | 248969  | 2.74%   | 0.243% |
| 40 | 18.645 | 2641 | 2645 | 2653 | rVB  | 321723  | 464224  | 5.10%   | 0.452% |
| 41 | 19.021 | 2704 | 2709 | 2713 | rBV2 | 151595  | 252586  | 2.78%   | 0.246% |
| 42 | 19.156 | 2728 | 2732 | 2739 | rVB  | 233616  | 360785  | 3.97%   | 0.351% |
| 43 | 19.280 | 2745 | 2753 | 2760 | rBV  | 3590788 | 4816936 | 52.97%  | 4.692% |
| 44 | 19.392 | 2767 | 2772 | 2776 | rBV4 | 217150  | 360911  | 3.97%   | 0.352% |
| 45 | 19.615 | 2804 | 2810 | 2813 | rBV  | 4475302 | 6609911 | 72.68%  | 6.439% |
| 46 | 19.644 | 2813 | 2815 | 2822 | rVV  | 2849747 | 3223632 | 35.45%  | 3.140% |
| 47 | 19.715 | 2823 | 2827 | 2833 | rVB3 | 169025  | 267438  | 2.94%   | 0.261% |
| 48 | 19.821 | 2842 | 2845 | 2850 | rBV  | 188214  | 241386  | 2.65%   | 0.235% |
| 49 | 19.880 | 2852 | 2855 | 2859 | rVV2 | 64807   | 91144   | 1.00%   | 0.089% |
| 50 | 19.968 | 2864 | 2870 | 2871 | rBV  | 223478  | 374938  | 4.12%   | 0.365% |
| 51 | 20.239 | 2913 | 2916 | 2919 | rVB  | 135056  | 162183  | 1.78%   | 0.158% |
| 52 | 20.291 | 2920 | 2925 | 2929 | rVV2 | 259264  | 443210  | 4.87%   | 0.432% |
| 53 | 20.433 | 2946 | 2949 | 2953 | rBV  | 160662  | 233376  | 2.57%   | 0.227% |
| 54 | 20.880 | 3022 | 3025 | 3031 | rVB  | 628175  | 905033  | 9.95%   | 0.882% |
| 55 | 21.050 | 3049 | 3054 | 3056 | rBV2 | 374440  | 711728  | 7.83%   | 0.693% |
| 56 | 21.109 | 3062 | 3064 | 3072 | rVB4 | 1129034 | 2173498 | 23.90%  | 2.117% |
| 57 | 21.174 | 3073 | 3075 | 3082 | rVB  | 616756  | 801465  | 8.81%   | 0.781% |
| 58 | 21.397 | 3107 | 3113 | 3117 | rBV2 | 5515181 | 9093933 | 100.00% | 8.858% |
| 59 | 21.438 | 3117 | 3120 | 3130 | rVB  | 1845137 | 2379645 | 26.17%  | 2.318% |
| 60 | 23.003 | 3381 | 3386 | 3390 | rBV2 | 1749794 | 3915117 | 43.05%  | 3.814% |
| 61 | 23.497 | 3466 | 3470 | 3474 | rBV  | 763407  | 1274366 | 14.01%  | 1.241% |
| 62 | 23.550 | 3474 | 3479 | 3484 | rBV2 | 2849730 | 5089554 | 55.97%  | 4.958% |
| 63 | 23.697 | 3498 | 3504 | 3510 | rBV  | 3340973 | 6209915 | 68.29%  | 6.049% |

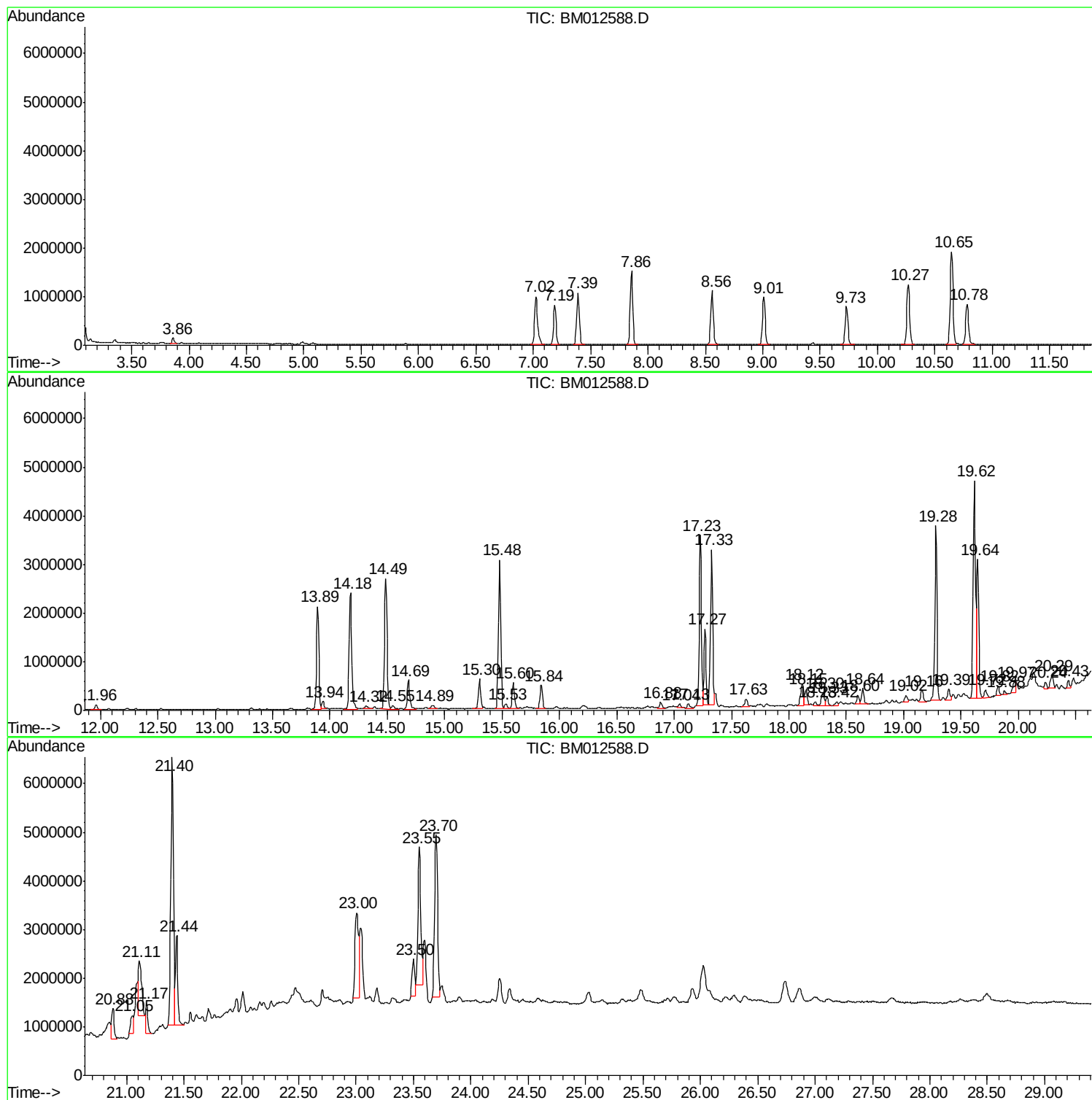
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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



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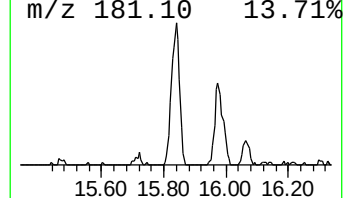
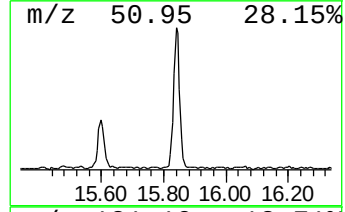
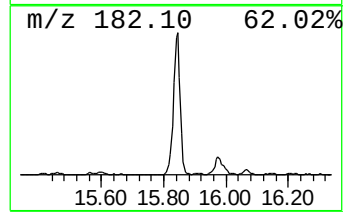
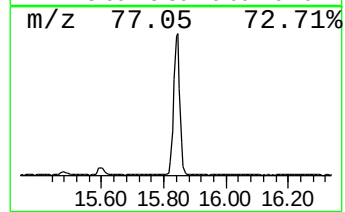
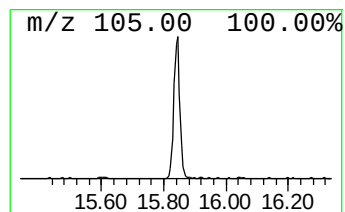
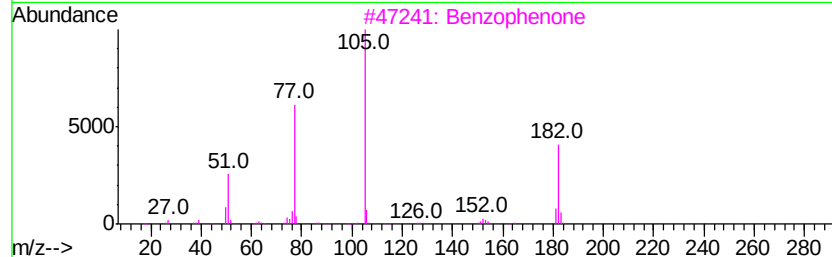
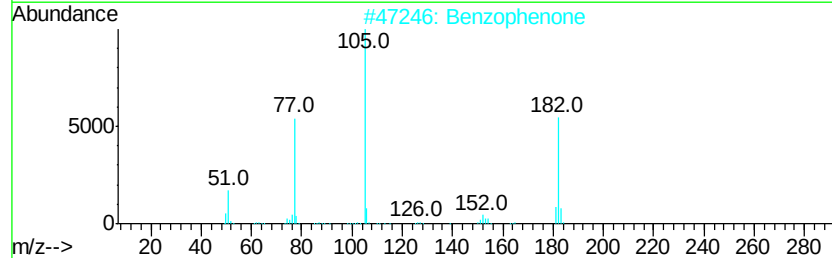
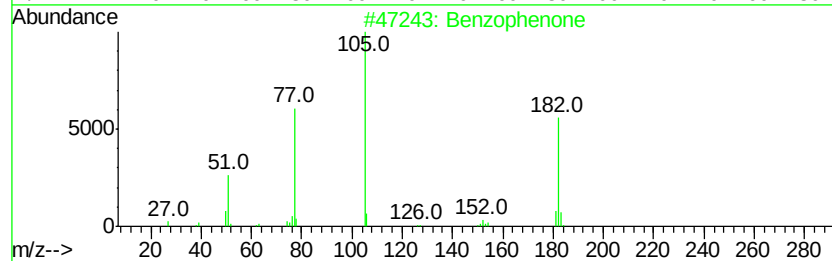
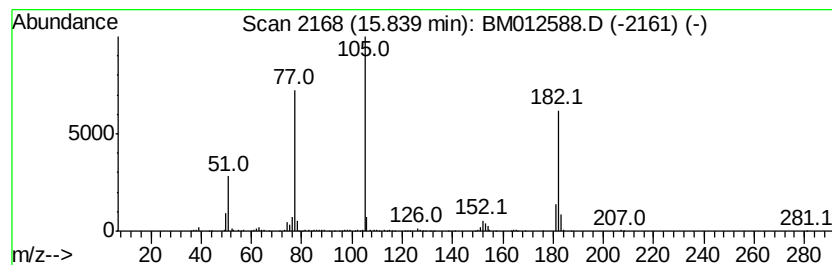
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Benzophenone Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 15.84   | 3.49 ng/ul                          | 720622       | Acenaphthene-d10 | 14.49     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Benzophenone                        | 182 C13H10O  | 000119-61-9      | 96        |
| 2       | Benzophenone                        | 182 C13H10O  | 000119-61-9      | 95        |
| 3       | Benzophenone                        | 182 C13H10O  | 000119-61-9      | 95        |
| 4       | Benzophenone                        | 182 C13H10O  | 000119-61-9      | 91        |
| 5       | Bicyclo[3.2.1]octane-6-carboxyli... | 182 C10H14O3 | 1000362-16-3     | 56        |



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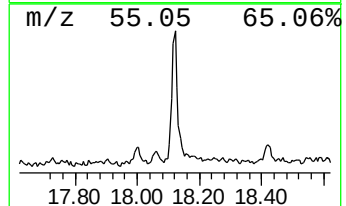
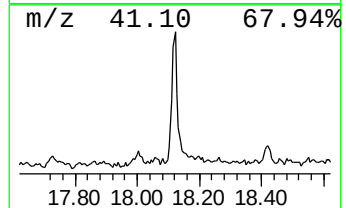
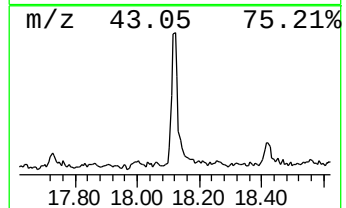
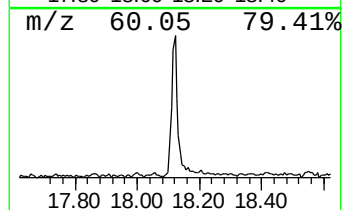
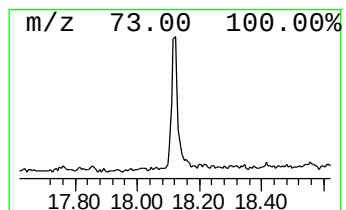
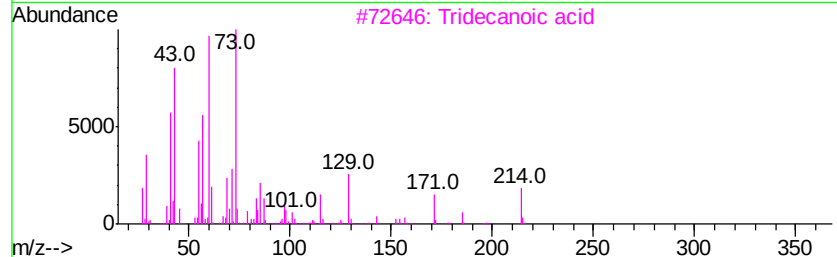
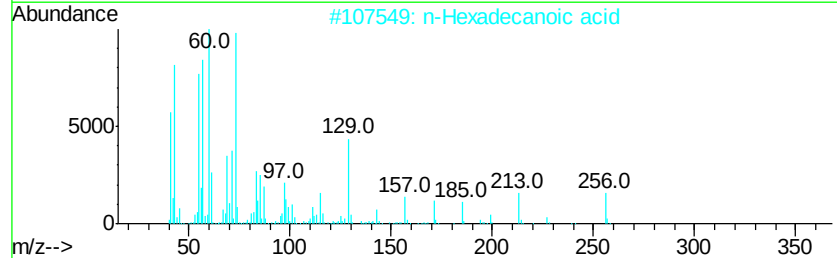
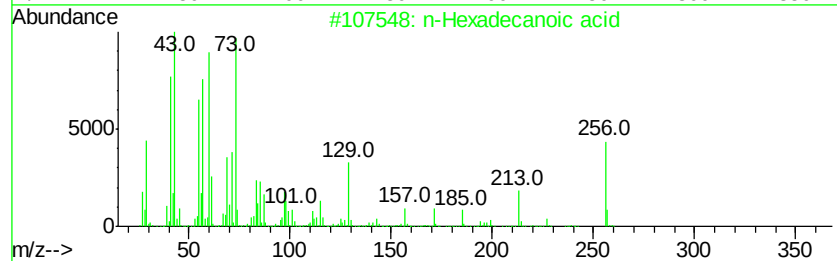
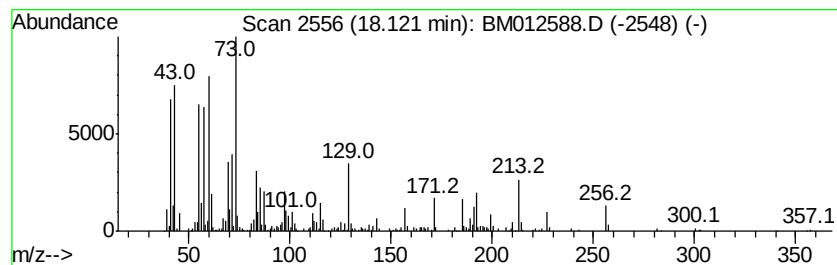
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 4

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------|--------------|------------------|-------------|------|------|
| 18.12   | 3.31 ng/ul          | 803665       | Phenanthrene-d10 | 17.23       |      |      |
| Hit# of | 5                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 96   |      |
| 2       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 95   |      |
| 3       | Tridecanoic acid    | 214          | C13H26O2         | 000638-53-9 | 87   |      |
| 4       | Pentadecanoic acid  | 242          | C15H30O2         | 001002-84-2 | 55   |      |
| 5       | Octadecanoic acid   | 284          | C18H36O2         | 000057-11-4 | 49   |      |



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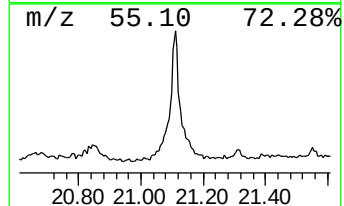
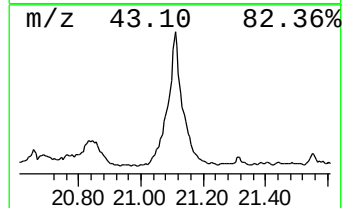
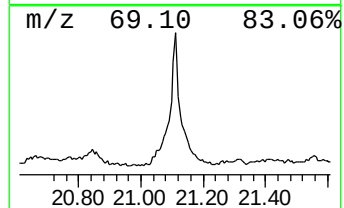
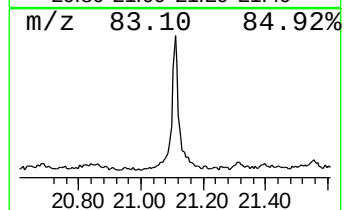
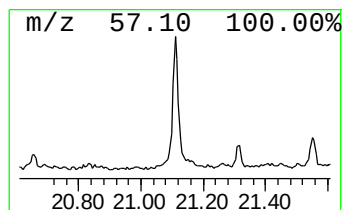
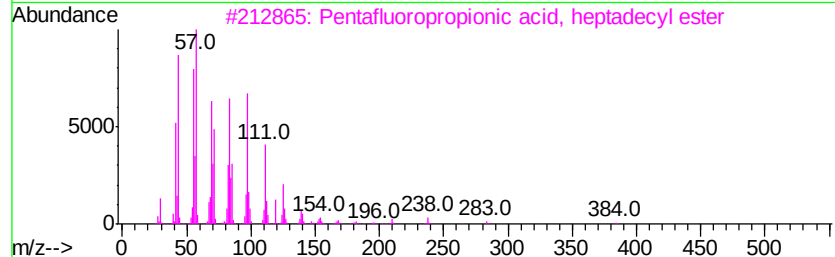
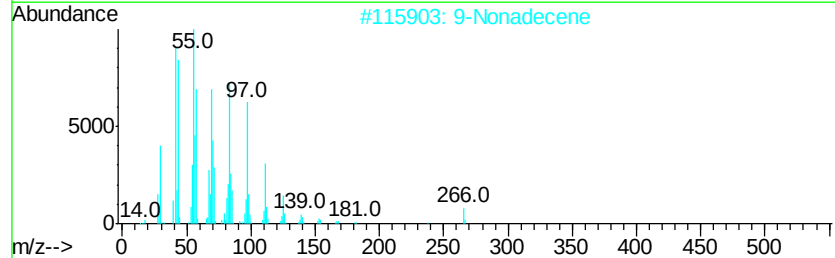
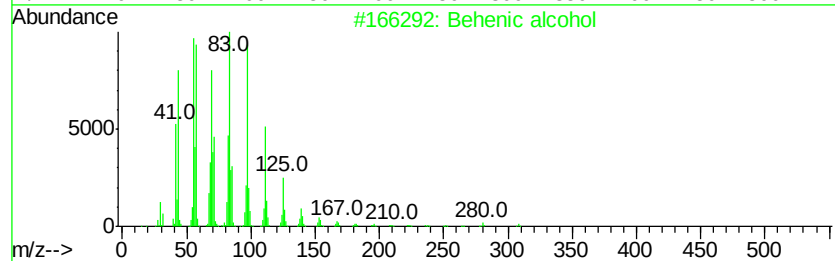
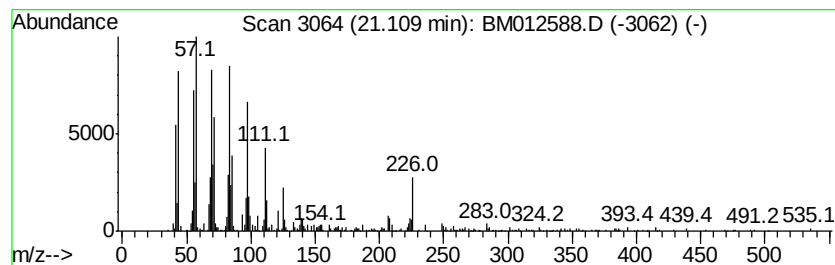
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Behenic alcohol Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 21.11   | 4.78 ng/ul | 2173500                             | Chrysene-d12     | 21.40           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Behenic alcohol                     | 326 C22H46O      | 000661-19-8 91  |
| 2       |            | 9-Nonadecene                        | 266 C19H38       | 031035-07-1 90  |
| 3       |            | Pentafluoropropionic acid, hepta... | 402 C20H35F5O2   | 959218-78-1 86  |
| 4       |            | Nonadecyl trifluoroacetate          | 380 C21H39F3O2   | 1000351-76-3 81 |
| 5       |            | 1-Docosanol, acetate                | 368 C24H48O2     | 000822-26-4 78  |



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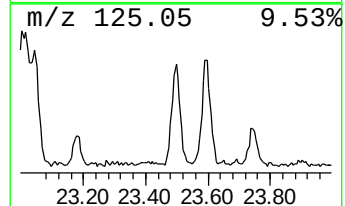
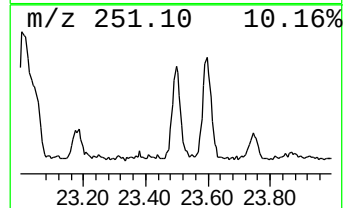
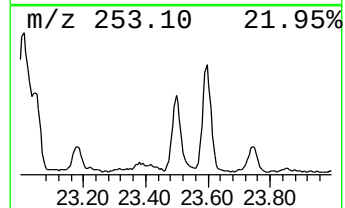
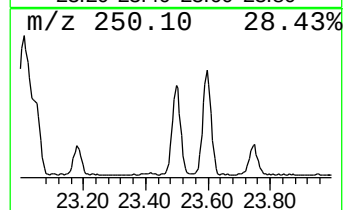
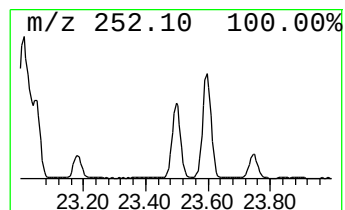
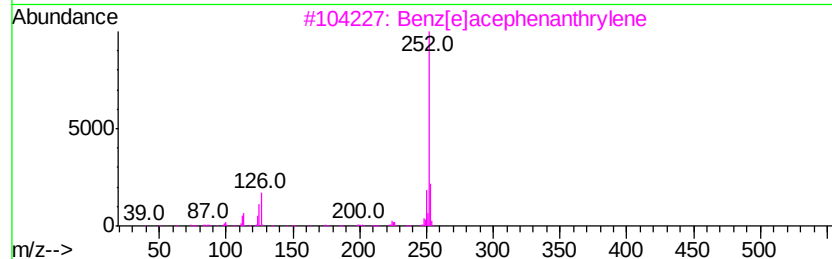
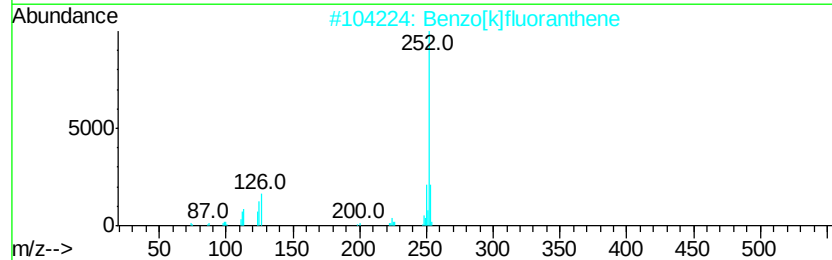
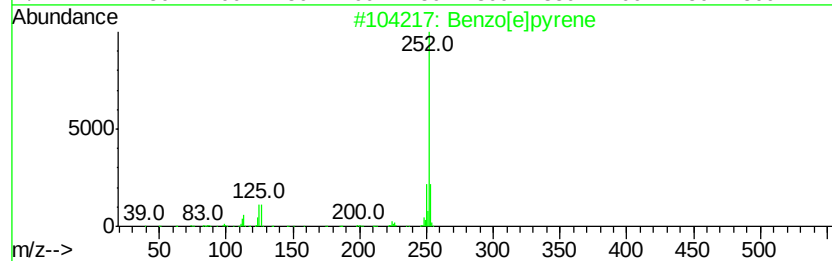
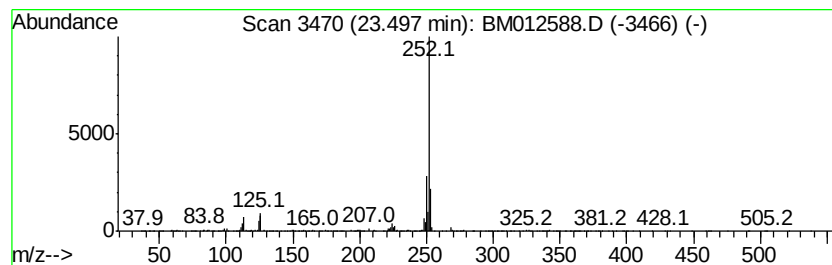
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzo[e]pyrene Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.50 | 4.10 ng/ul | 1274370 | Perylene-d12     | 23.70 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 96   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM103017\  
Data File : BM012588.D  
Acq On : 31 Oct 2017 00:01  
Operator : SJ/JU  
Sample : I5886-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
ESNE6

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.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 |
| Benzophenone        | 15.84 | 3.5     | ng/ul | 720622   | 3                     | 14.49 | 4132710 | 20.0 |
| n-Hexadecanoic acid | 18.12 | 3.3     | ng/ul | 803665   | 4                     | 17.23 | 4857060 | 20.0 |
| Behenic alcohol     | 21.11 | 4.8     | ng/ul | 2173500  | 5                     | 21.40 | 9093930 | 20.0 |
| Benzo[e]pyrene      | 23.50 | 4.1     | ng/ul | 1274370  | 6                     | 23.70 | 6209920 | 20.0 |