

Data Path : Z:\HPCHEM1\BNA M\DATA\BM103017\  
 Data File : BM012585.D  
 Acq On : 30 Oct 2017 22:14  
 Operator : SJ/JU  
 Sample : I5886-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNE2

## 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         | 3.140       | 6             | 9           | 15           | rVB2     | 55821          | 79987         | 1.41%           | 0.099%        |
| 2         | 3.352       | 41            | 45          | 54           | rVB      | 68274          | 103136        | 1.82%           | 0.127%        |
| 3         | 3.863       | 125           | 132         | 137          | rBV      | 130217         | 177487        | 3.13%           | 0.219%        |
| 4         | 4.987       | 317           | 323         | 330          | rBV4     | 54054          | 98941         | 1.75%           | 0.122%        |
| 5         | 7.022       | 661           | 669         | 683          | rBV2     | 1157426        | 2165514       | 38.24%          | 2.674%        |
| 6         | 7.187       | 691           | 697         | 705          | rVB      | 967513         | 1422221       | 25.11%          | 1.756%        |
| 7         | 7.392       | 724           | 732         | 739          | rBV      | 1215265        | 1961776       | 34.64%          | 2.422%        |
| 8         | 7.857       | 802           | 811         | 818          | rBV      | 1165467        | 1885642       | 33.30%          | 2.328%        |
| 9         | 8.557       | 922           | 930         | 944          | rBV      | 1280339        | 2102074       | 37.12%          | 2.596%        |
| 10        | 9.010       | 1000          | 1007        | 1016         | rBV      | 1144717        | 1852922       | 32.72%          | 2.288%        |
| 11        | 9.439       | 1074          | 1080        | 1085         | rBV2     | 46226          | 67790         | 1.20%           | 0.084%        |
| 12        | 9.728       | 1122          | 1129        | 1137         | rBV      | 966109         | 1614696       | 28.51%          | 1.994%        |
| 13        | 10.269      | 1213          | 1221        | 1230         | rBV      | 1496982        | 2444722       | 43.17%          | 3.019%        |
| 14        | 10.645      | 1277          | 1285        | 1297         | rBV      | 1507368        | 2581971       | 45.59%          | 3.188%        |
| 15        | 10.781      | 1300          | 1308        | 1324         | rVV      | 920887         | 1650609       | 29.15%          | 2.038%        |
| 16        | 11.963      | 1502          | 1509        | 1516         | rBV      | 163204         | 271221        | 4.79%           | 0.335%        |
| 17        | 13.892      | 1827          | 1837        | 1842         | rBV      | 2330093        | 3250939       | 57.40%          | 4.014%        |
| 18        | 13.939      | 1842          | 1845        | 1850         | rVB      | 163919         | 214407        | 3.79%           | 0.265%        |
| 19        | 14.180      | 1875          | 1886        | 1896         | rBV      | 2588059        | 4026644       | 71.10%          | 4.972%        |
| 20        | 14.316      | 1901          | 1909        | 1915         | rVV4     | 68801          | 181550        | 3.21%           | 0.224%        |
| 21        | 14.392      | 1918          | 1922        | 1928         | rVV2     | 35060          | 58170         | 1.03%           | 0.072%        |
| 22        | 14.486      | 1930          | 1938        | 1945         | rVV2     | 2112714        | 3191947       | 56.36%          | 3.941%        |
| 23        | 14.686      | 1965          | 1972        | 1983         | rBV      | 728991         | 1187654       | 20.97%          | 1.467%        |
| 24        | 14.839      | 1993          | 1998        | 2002         | rBV6     | 33990          | 62854         | 1.11%           | 0.078%        |
| 25        | 14.898      | 2002          | 2008        | 2014         | rVB5     | 51532          | 121304        | 2.14%           | 0.150%        |
| 26        | 15.480      | 2100          | 2107        | 2113         | rBV      | 3356338        | 4673437       | 82.52%          | 5.771%        |
| 27        | 15.533      | 2113          | 2116        | 2122         | rVB4     | 57922          | 80891         | 1.43%           | 0.100%        |
| 28        | 15.598      | 2122          | 2127        | 2134         | rBV      | 768792         | 1065118       | 18.81%          | 1.315%        |
| 29        | 15.715      | 2143          | 2147        | 2151         | rBV      | 40380          | 64711         | 1.14%           | 0.080%        |
| 30        | 15.845      | 2161          | 2169        | 2175         | rBV      | 764322         | 1092805       | 19.30%          | 1.349%        |
| 31        | 16.227      | 2225          | 2234        | 2238         | rBV3     | 78337          | 180025        | 3.18%           | 0.222%        |
| 32        | 16.768      | 2321          | 2326        | 2331         | rBV7     | 39730          | 72138         | 1.27%           | 0.089%        |
| 33        | 17.045      | 2370          | 2373        | 2381         | rVB2     | 46213          | 69268         | 1.22%           | 0.086%        |
| 34        | 17.121      | 2382          | 2386        | 2394         | rBV8     | 57192          | 94946         | 1.68%           | 0.117%        |

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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

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 17.227 | 2398 | 2404 | 2408 | rVV2 | 2533843 | 3479240 | 61.44%  | 4.296% |
| 36 | 17.268 | 2408 | 2411 | 2415 | rVV  | 635409  | 855320  | 15.10%  | 1.056% |
| 37 | 17.327 | 2415 | 2421 | 2431 | rVB  | 3292900 | 4642473 | 81.98%  | 5.732% |
| 38 | 17.627 | 2465 | 2472 | 2477 | rBV  | 72571   | 124009  | 2.19%   | 0.153% |
| 39 | 18.121 | 2548 | 2556 | 2559 | rBV2 | 538121  | 841419  | 14.86%  | 1.039% |
| 40 | 18.298 | 2580 | 2586 | 2590 | rBV2 | 112399  | 206612  | 3.65%   | 0.255% |
| 41 | 18.333 | 2590 | 2592 | 2598 | rVB2 | 68615   | 79177   | 1.40%   | 0.098% |
| 42 | 18.415 | 2602 | 2606 | 2609 | rBV4 | 50819   | 76178   | 1.35%   | 0.094% |
| 43 | 18.604 | 2634 | 2638 | 2641 | rBV  | 89037   | 124661  | 2.20%   | 0.154% |
| 44 | 18.639 | 2641 | 2644 | 2648 | rVV2 | 98960   | 134328  | 2.37%   | 0.166% |
| 45 | 19.021 | 2705 | 2709 | 2712 | rBV2 | 51317   | 87338   | 1.54%   | 0.108% |
| 46 | 19.156 | 2729 | 2732 | 2737 | rBV2 | 70692   | 102827  | 1.82%   | 0.127% |
| 47 | 19.280 | 2745 | 2753 | 2760 | rBV  | 1936097 | 2584710 | 45.64%  | 3.192% |
| 48 | 19.398 | 2769 | 2773 | 2777 | rBV  | 269098  | 367402  | 6.49%   | 0.454% |
| 49 | 19.615 | 2804 | 2810 | 2813 | rBV  | 3936834 | 5663230 | 100.00% | 6.993% |
| 50 | 19.645 | 2813 | 2815 | 2823 | rVB  | 1523082 | 1709861 | 30.19%  | 2.111% |
| 51 | 19.827 | 2842 | 2846 | 2852 | rBV2 | 84639   | 151357  | 2.67%   | 0.187% |
| 52 | 19.962 | 2865 | 2869 | 2871 | rBV2 | 95427   | 151799  | 2.68%   | 0.187% |
| 53 | 20.139 | 2895 | 2899 | 2906 | rVB2 | 173816  | 313648  | 5.54%   | 0.387% |
| 54 | 20.880 | 3023 | 3025 | 3031 | rVB  | 169712  | 201201  | 3.55%   | 0.248% |
| 55 | 21.109 | 3061 | 3064 | 3071 | rVB4 | 741358  | 1030624 | 18.20%  | 1.273% |
| 56 | 21.174 | 3073 | 3075 | 3081 | rVB  | 227571  | 275389  | 4.86%   | 0.340% |
| 57 | 21.397 | 3107 | 3113 | 3117 | rBV2 | 3458446 | 5448882 | 96.22%  | 6.728% |
| 58 | 21.433 | 3117 | 3119 | 3129 | rVB  | 1018605 | 1224328 | 21.62%  | 1.512% |
| 59 | 23.003 | 3381 | 3386 | 3390 | rBV2 | 1132255 | 2341078 | 41.34%  | 2.891% |
| 60 | 23.550 | 3474 | 3479 | 3484 | rBV2 | 2593348 | 4712206 | 83.21%  | 5.819% |
| 61 | 23.697 | 3498 | 3504 | 3510 | rBV  | 2048104 | 3886463 | 68.63%  | 4.799% |

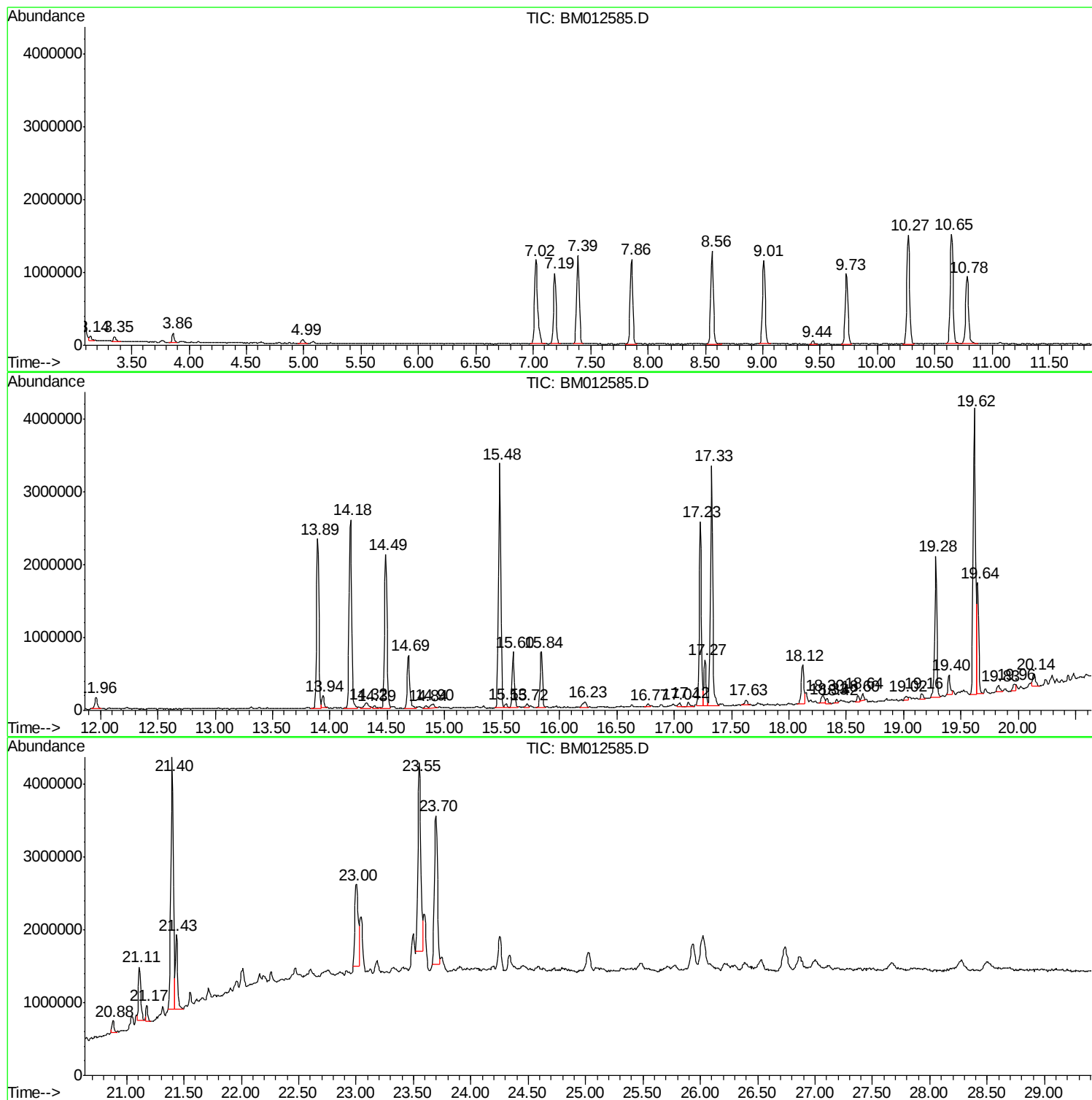
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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



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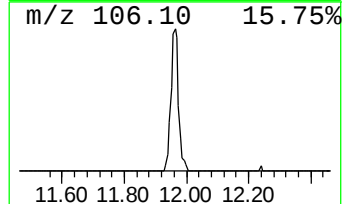
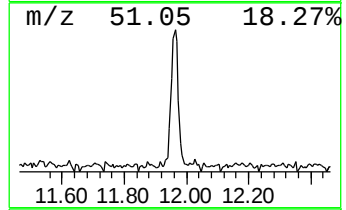
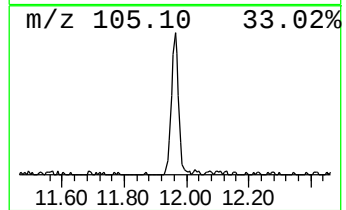
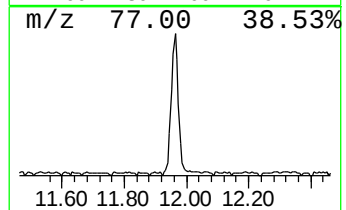
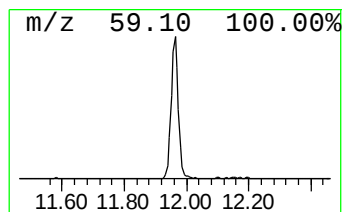
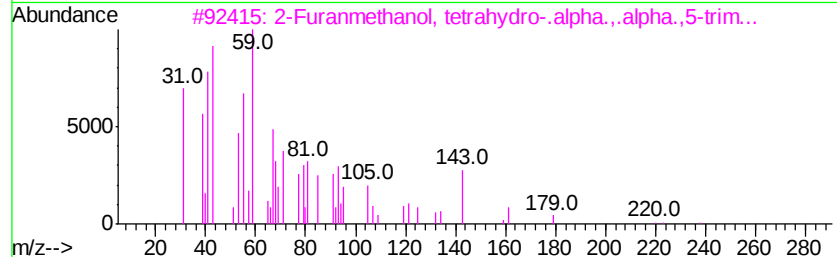
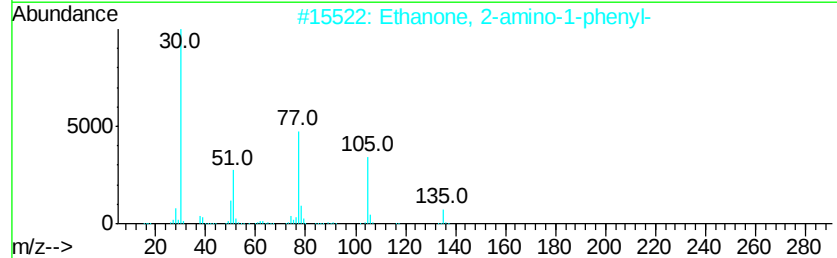
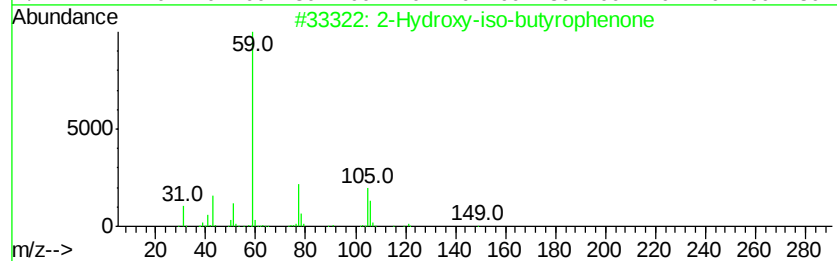
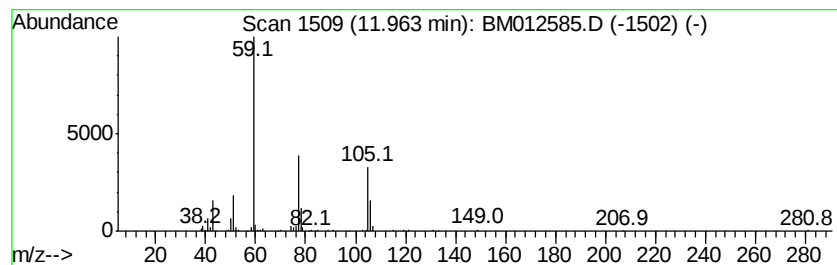
Instrument :  
BNA\_M  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 2-Hydroxy-iso-butyrophenone Concentration Rank 4

| R.T.    | EstConc                             | Area           | Relative to ISTD | R.T.      |
|---------|-------------------------------------|----------------|------------------|-----------|
| 11.96   | 2.10 ng/ul                          | 271221         | Napthalene-d8    | 10.65     |
| Hit# of | 5                                   | Tentative ID   | MW MolForm       | CAS# Qual |
| 1       | 2-Hydroxy-iso-butyrophenone         | 164 C10H12O2   | 007473-98-5      | 72        |
| 2       | Ethanone, 2-amino-1-phenyl-         | 135 C8H9NO     | 000613-89-8      | 35        |
| 3       | 2-Furanmethanol, tetrahydro-.alp... | 238 C15H26O2   | 026184-88-3      | 33        |
| 4       | Propanedioic acid, (benzoylhydra... | 282 C12H14N2O6 | 1000142-99-9     | 28        |
| 5       | Propionic acid, 2-isopropoxy-, m... | 146 C7H14O3    | 1000151-15-1     | 17        |



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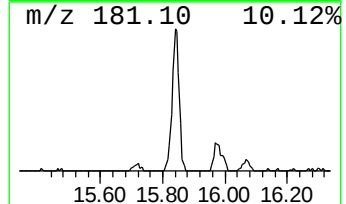
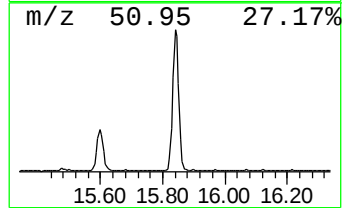
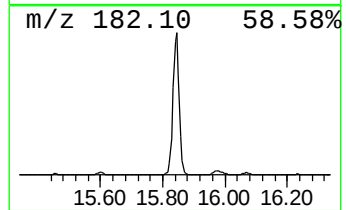
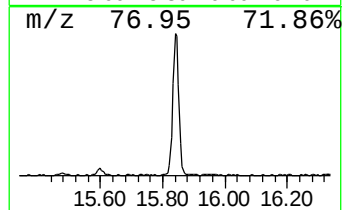
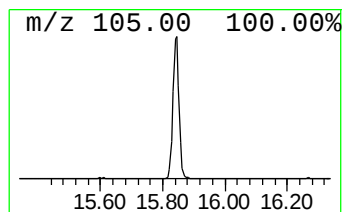
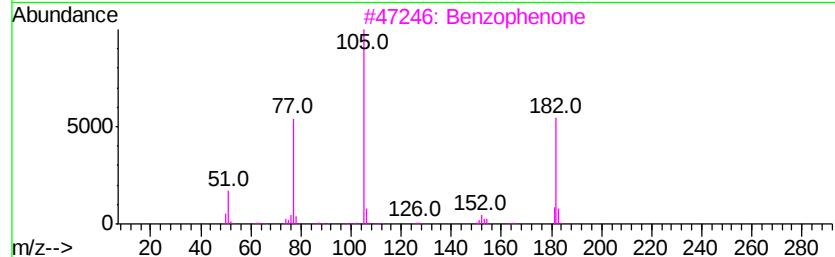
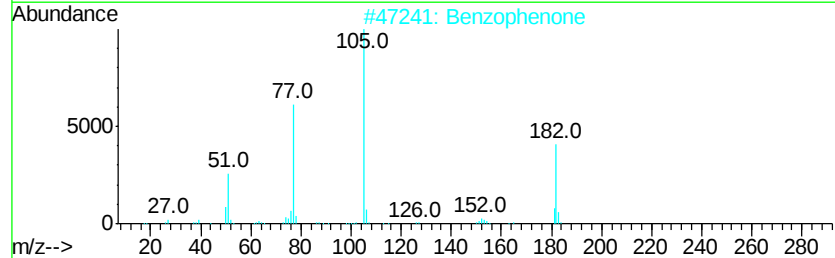
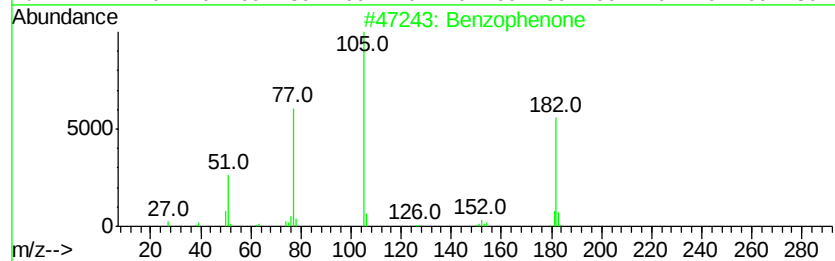
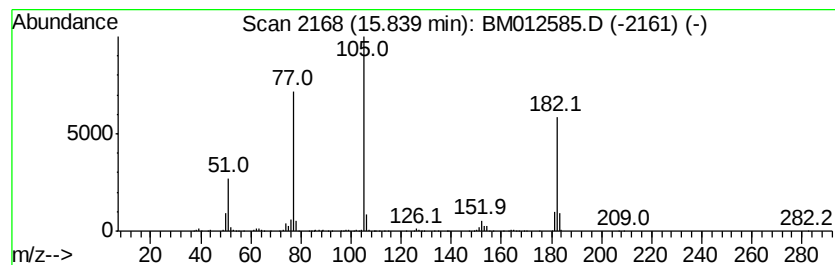
Instrument :  
BNA\_M  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 2 Benzophenone Concentration Rank 1

| R.T.    | EstConc      | Area         | Relative to ISTD | R.T.      |
|---------|--------------|--------------|------------------|-----------|
| 15.84   | 6.85 ng/ul   | 1092810      | 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      | 96        |
| 3       | Benzophenone | 182 C13H10O  | 000119-61-9      | 95        |
| 4       | Benzophenone | 182 C13H10O  | 000119-61-9      | 91        |
| 5       | Benzophenone | 182 C13H10O  | 000119-61-9      | 91        |



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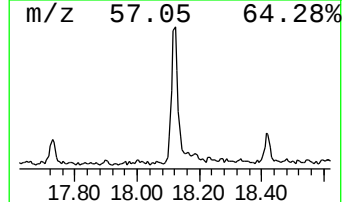
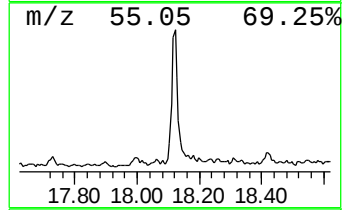
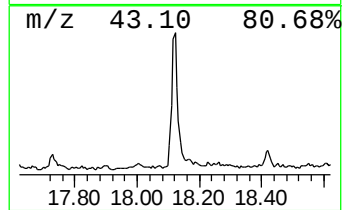
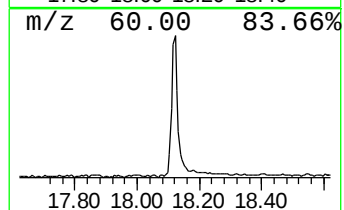
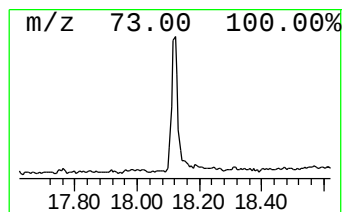
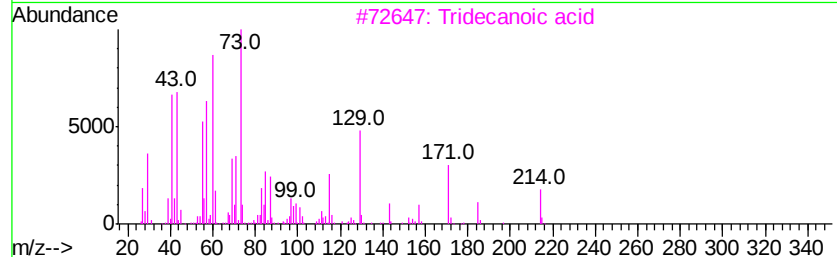
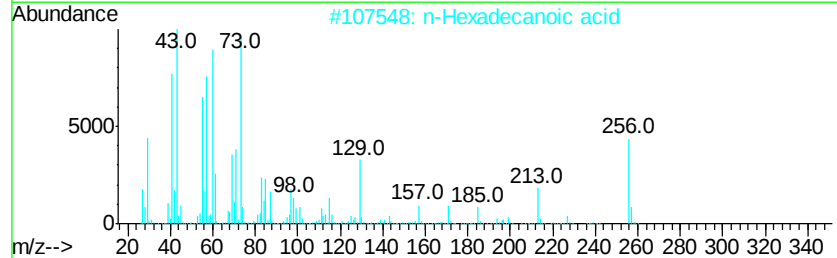
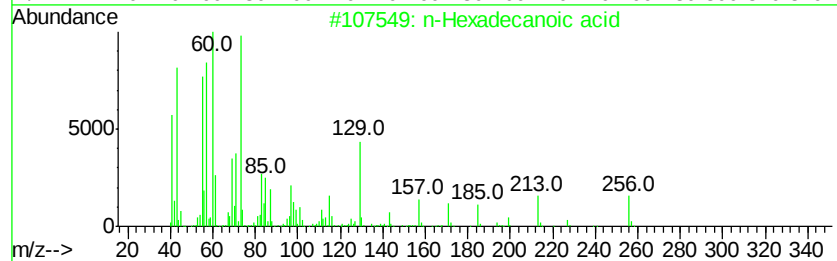
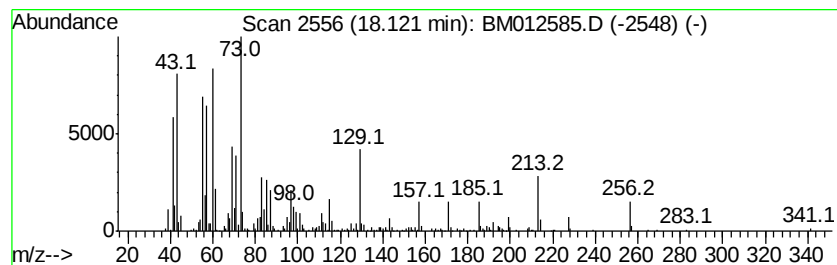
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.12 | 4.84 ng/ul | 841419 | Phenanthrene-d10 | 17.23 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 94   |
| 4    |    | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 93   |
| 5    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |



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Quant Title : SVOA CALIBRATION

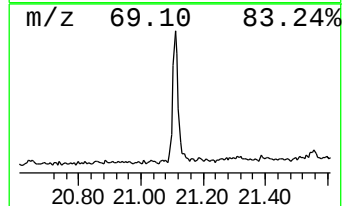
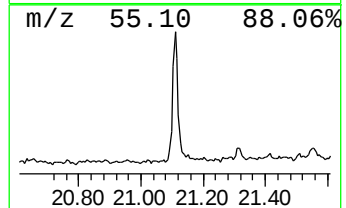
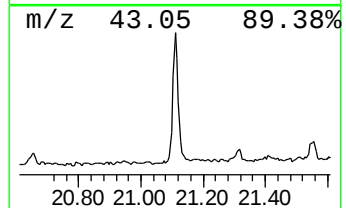
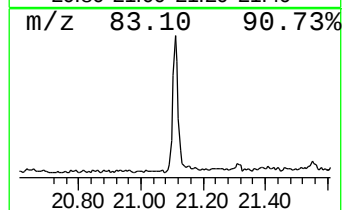
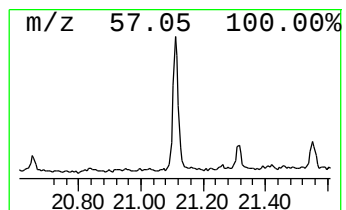
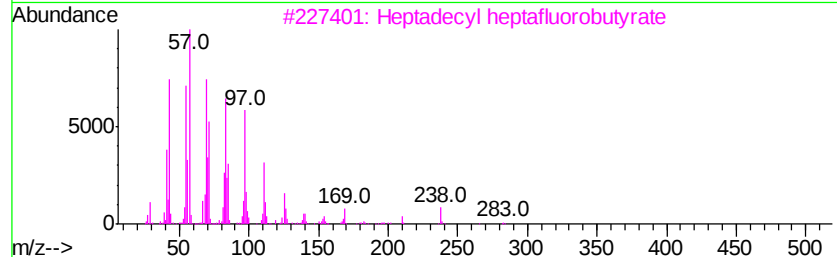
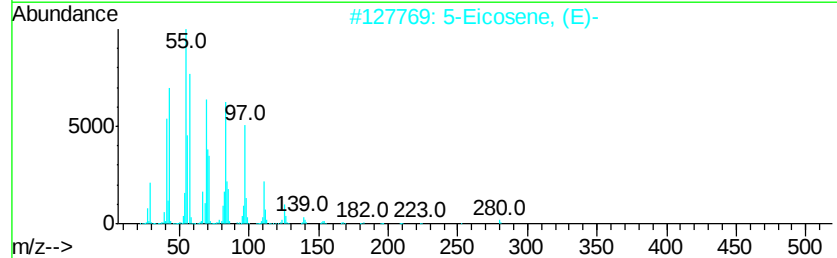
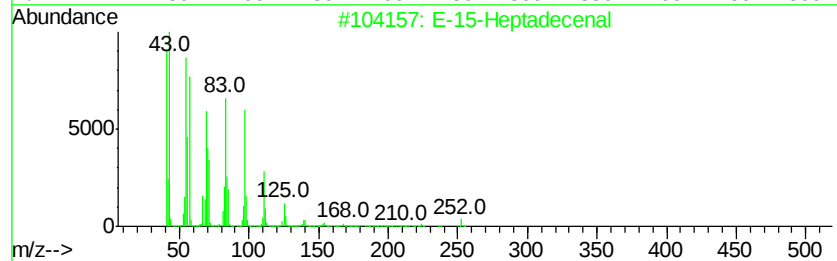
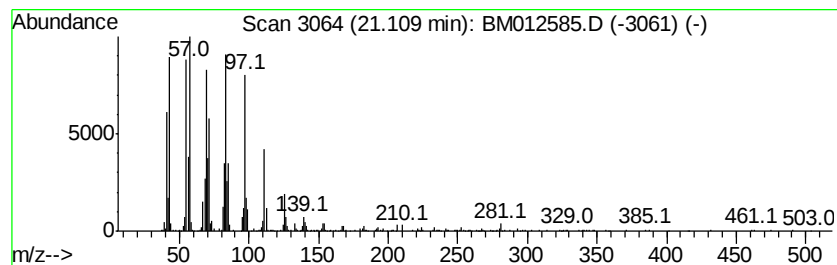
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 E-15-Heptadecenal Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.11 | 3.78 ng/ul | 1030620 | Chrysene-d12     | 21.40 |

| Hit# | of | Tentative ID                   | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------|-----|------------|--------------|------|
| 1    | 5  | E-15-Heptadecenal              | 252 | C17H32O    | 1000130-97-9 | 98   |
| 2    |    | 5-Eicosene, (E)-               | 280 | C20H40     | 074685-30-6  | 97   |
| 3    |    | Heptadecyl heptafluorobutvrate | 452 | C21H35F7O2 | 959085-66-6  | 94   |
| 4    |    | Behenic alcohol                | 326 | C22H46O    | 000661-19-8  | 94   |
| 5    |    | 1-Heneicosanol                 | 312 | C21H44O    | 015594-90-8  | 94   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM103017\  
Data File : BM012585.D  
Acq On : 30 Oct 2017 22:14  
Operator : SJ/JU  
Sample : I5886-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
ESNE2

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 |
| 2-Hydroxy-iso-but... | 11.96 | 2.1     | ng/ul | 271221   | 2                     | 10.65 | 2581970 | 20.0 |
| Benzophenone         | 15.84 | 6.8     | ng/ul | 1092810  | 3                     | 14.49 | 3191950 | 20.0 |
| n-Hexadecanoic acid  | 18.12 | 4.8     | ng/ul | 841419   | 4                     | 17.23 | 3479240 | 20.0 |
| E-15-Heptadecenal    | 21.11 | 3.8     | ng/ul | 1030620  | 5                     | 21.40 | 5448880 | 20.0 |