

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110817\  
 Data File : BM012827.D  
 Acq On : 08 Nov 2017 18:44  
 Operator : SJ/JU  
 Sample : I5955-04  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-17(5-6.5)-101717

## 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-BM110417MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 6.975       | 654           | 661         | 676          | rVB      | 518259         | 906370        | 15.41%          | 1.831%        |
| 2         | 7.134       | 680           | 688         | 700          | rBV      | 454021         | 682409        | 11.60%          | 1.379%        |
| 3         | 7.334       | 715           | 722         | 735          | rBV      | 591052         | 921441        | 15.66%          | 1.861%        |
| 4         | 7.798       | 795           | 801         | 808          | rBV      | 417789         | 637352        | 10.83%          | 1.287%        |
| 5         | 8.510       | 915           | 922         | 931          | rBV      | 554951         | 921967        | 15.67%          | 1.862%        |
| 6         | 8.957       | 991           | 998         | 1006         | rBV      | 555095         | 903884        | 15.37%          | 1.826%        |
| 7         | 9.675       | 1113          | 1120        | 1128         | rBV      | 487670         | 800113        | 13.60%          | 1.616%        |
| 8         | 10.216      | 1205          | 1212        | 1230         | rBB      | 761295         | 1298663       | 22.08%          | 2.623%        |
| 9         | 10.586      | 1268          | 1275        | 1282         | rBV      | 583058         | 945446        | 16.07%          | 1.910%        |
| 10        | 10.728      | 1290          | 1299        | 1320         | rBV      | 500865         | 901570        | 15.33%          | 1.821%        |
| 11        | 13.845      | 1822          | 1829        | 1833         | rBV      | 1466895        | 2027365       | 34.46%          | 4.095%        |
| 12        | 13.892      | 1833          | 1837        | 1845         | rVB      | 440234         | 599925        | 10.20%          | 1.212%        |
| 13        | 14.127      | 1870          | 1877        | 1890         | rVB      | 1632837        | 2403124       | 40.85%          | 4.854%        |
| 14        | 14.433      | 1920          | 1929        | 1940         | rBV2     | 887322         | 1368579       | 23.26%          | 2.765%        |
| 15        | 14.651      | 1960          | 1966        | 1980         | rBV      | 347238         | 566225        | 9.63%           | 1.144%        |
| 16        | 15.427      | 2092          | 2098        | 2105         | rBV      | 2129995        | 3091832       | 52.56%          | 6.246%        |
| 17        | 15.563      | 2116          | 2121        | 2128         | rBV      | 416242         | 605881        | 10.30%          | 1.224%        |
| 18        | 16.145      | 2214          | 2220        | 2229         | rBV      | 49322          | 85519         | 1.45%           | 0.173%        |
| 19        | 17.180      | 2390          | 2396        | 2401         | rBV2     | 1157747        | 1624724       | 27.62%          | 3.282%        |
| 20        | 17.280      | 2407          | 2413        | 2424         | rVB      | 2239004        | 3077189       | 52.31%          | 6.216%        |
| 21        | 18.074      | 2542          | 2548        | 2552         | rBV2     | 204450         | 290988        | 4.95%           | 0.588%        |
| 22        | 18.256      | 2573          | 2579        | 2582         | rBV3     | 38171          | 67516         | 1.15%           | 0.136%        |
| 23        | 18.974      | 2697          | 2701        | 2705         | rBV      | 42649          | 65013         | 1.11%           | 0.131%        |
| 24        | 19.115      | 2720          | 2725        | 2732         | rBV5     | 45702          | 100577        | 1.71%           | 0.203%        |
| 25        | 19.239      | 2737          | 2746        | 2753         | rBV      | 729639         | 1187980       | 20.19%          | 2.400%        |
| 26        | 19.356      | 2760          | 2766        | 2776         | rBV4     | 125792         | 230685        | 3.92%           | 0.466%        |
| 27        | 19.462      | 2781          | 2784        | 2790         | rBV3     | 43175          | 74917         | 1.27%           | 0.151%        |
| 28        | 19.574      | 2797          | 2803        | 2807         | rBV      | 2598736        | 3849814       | 65.44%          | 7.777%        |
| 29        | 19.603      | 2807          | 2808        | 2815         | rVB      | 727593         | 616155        | 10.47%          | 1.245%        |
| 30        | 19.756      | 2830          | 2834        | 2838         | rBV      | 346573         | 420081        | 7.14%           | 0.849%        |
| 31        | 19.850      | 2845          | 2850        | 2856         | rVB      | 285136         | 375279        | 6.38%           | 0.758%        |
| 32        | 19.927      | 2858          | 2863        | 2864         | rBV3     | 60832          | 89478         | 1.52%           | 0.181%        |
| 33        | 20.056      | 2881          | 2885        | 2887         | rBV2     | 55033          | 84665         | 1.44%           | 0.171%        |
| 34        | 20.097      | 2889          | 2892        | 2897         | rVB      | 93155          | 141303        | 2.40%           | 0.285%        |

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Misc :  
ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :  
B-17(5-6.5)-101717

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Sampling : 1  
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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-BM110417MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 20.256 | 2913 | 2919 | 2923 | rBV2 | 97180   | 190843  | 3.24%   | 0.386%  |
| 36 | 20.397 | 2939 | 2943 | 2946 | rBV2 | 87302   | 134131  | 2.28%   | 0.271%  |
| 37 | 20.497 | 2955 | 2960 | 2965 | rVB  | 1371288 | 1504976 | 25.58%  | 3.040%  |
| 38 | 20.850 | 3016 | 3020 | 3025 | rVB  | 82196   | 114039  | 1.94%   | 0.230%  |
| 39 | 21.044 | 3051 | 3053 | 3055 | rBV  | 64870   | 70402   | 1.20%   | 0.142%  |
| 40 | 21.074 | 3055 | 3058 | 3065 | rVB3 | 135096  | 272076  | 4.63%   | 0.550%  |
| 41 | 21.139 | 3067 | 3069 | 3075 | rVB  | 74930   | 105917  | 1.80%   | 0.214%  |
| 42 | 21.274 | 3087 | 3092 | 3097 | rVB  | 5808214 | 5882615 | 100.00% | 11.883% |
| 43 | 21.362 | 3100 | 3107 | 3111 | rVV2 | 1332015 | 2467814 | 41.95%  | 4.985%  |
| 44 | 21.397 | 3111 | 3113 | 3123 | rVB  | 513862  | 631977  | 10.74%  | 1.277%  |
| 45 | 22.956 | 3373 | 3378 | 3383 | rBV  | 451817  | 962922  | 16.37%  | 1.945%  |
| 46 | 23.444 | 3457 | 3461 | 3465 | rBV  | 234328  | 428784  | 7.29%   | 0.866%  |
| 47 | 23.497 | 3465 | 3470 | 3475 | rVV2 | 1488603 | 2790555 | 47.44%  | 5.637%  |
| 48 | 23.544 | 3475 | 3478 | 3485 | rVB  | 464075  | 720365  | 12.25%  | 1.455%  |
| 49 | 23.638 | 3489 | 3494 | 3500 | rBV  | 710807  | 1261908 | 21.45%  | 2.549%  |

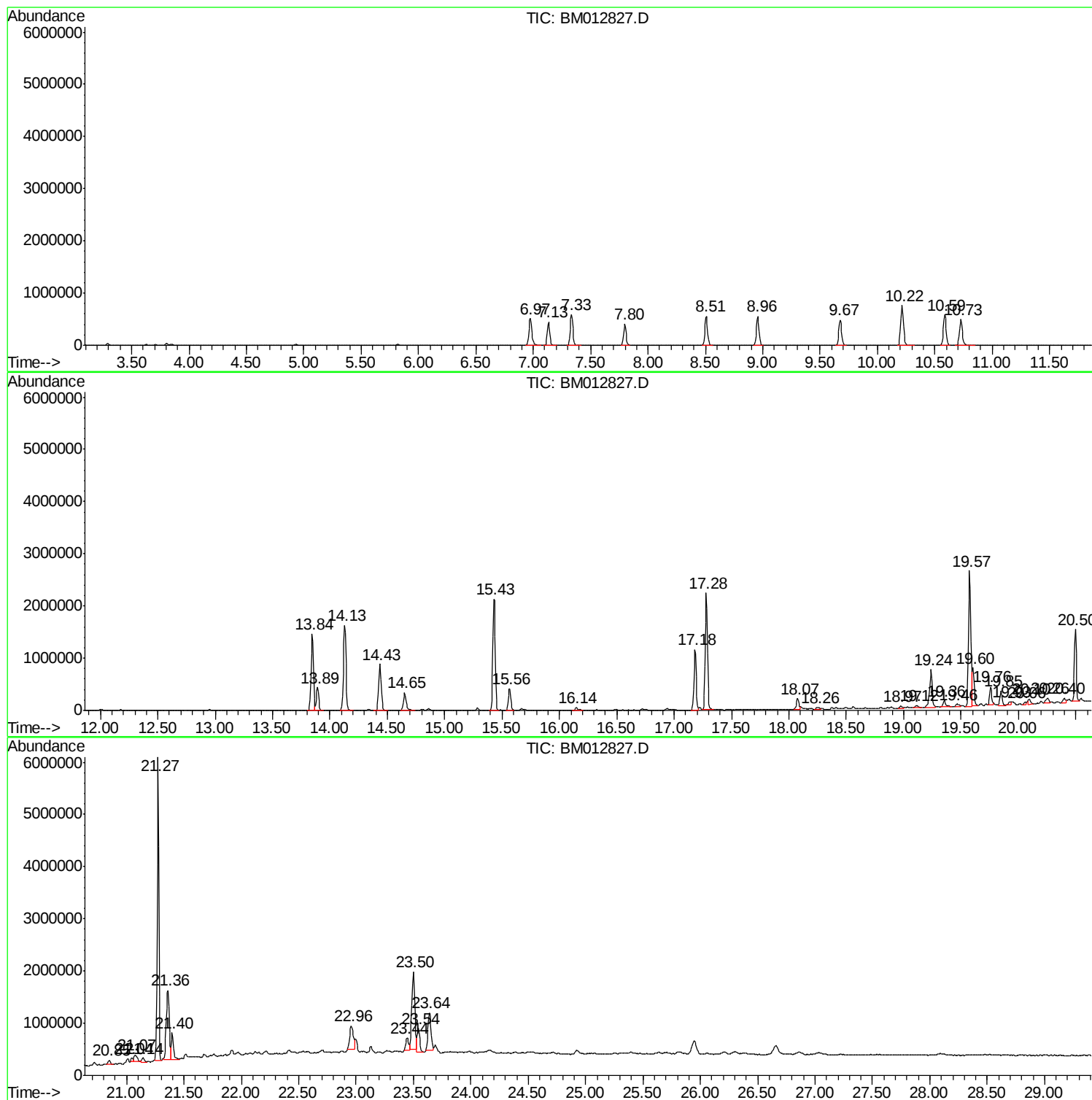
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION

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



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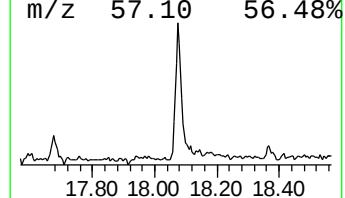
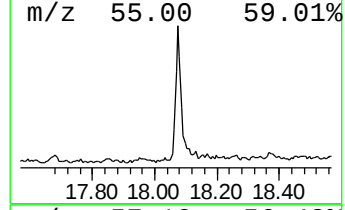
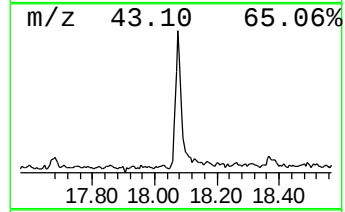
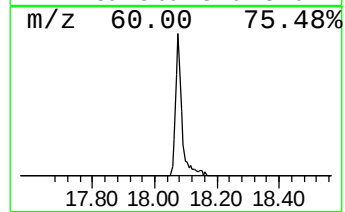
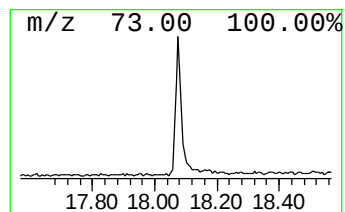
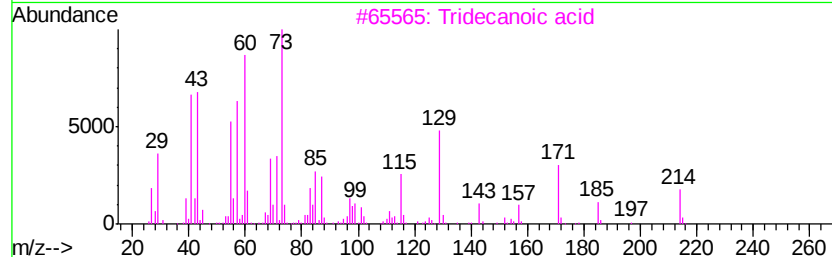
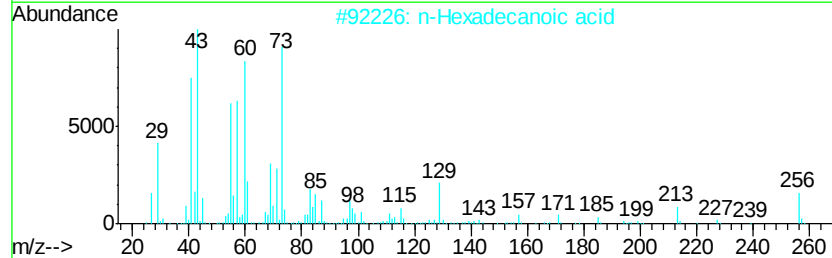
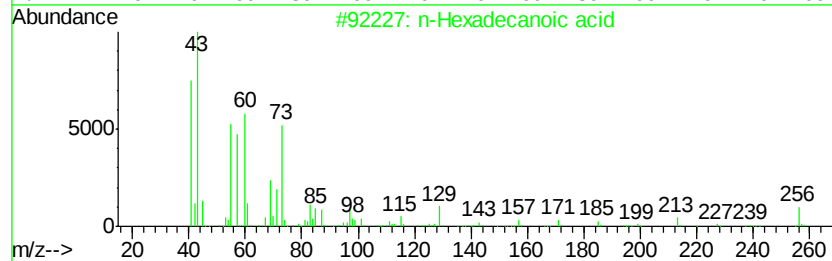
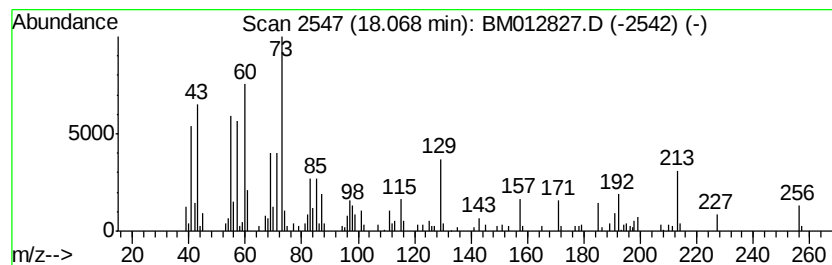
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T.    | EstConc             | Area         | Relative to ISTD |          | R.T.        |      |
|---------|---------------------|--------------|------------------|----------|-------------|------|
| 18.07   | 3.58 ng/ul          | 290988       | Phenanthrene-d10 |          | 17.18       |      |
| 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 | 96   |
| 3       | Tridecanoic acid    |              | 214              | C13H26O2 | 000638-53-9 | 93   |
| 4       | Tridecanoic acid    |              | 214              | C13H26O2 | 000638-53-9 | 90   |
| 5       | n-Hexadecanoic acid |              | 256              | C16H32O2 | 000057-10-3 | 90   |



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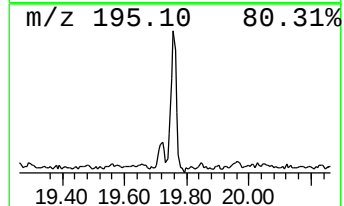
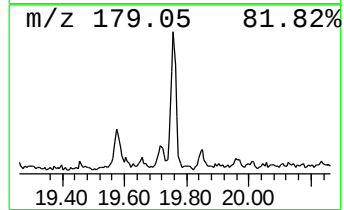
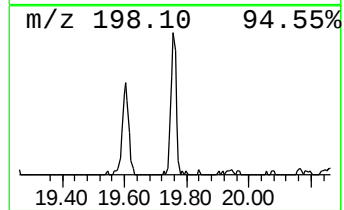
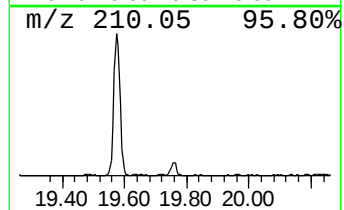
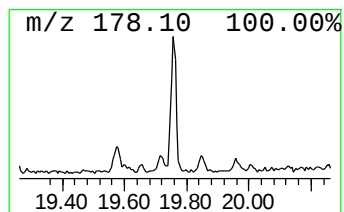
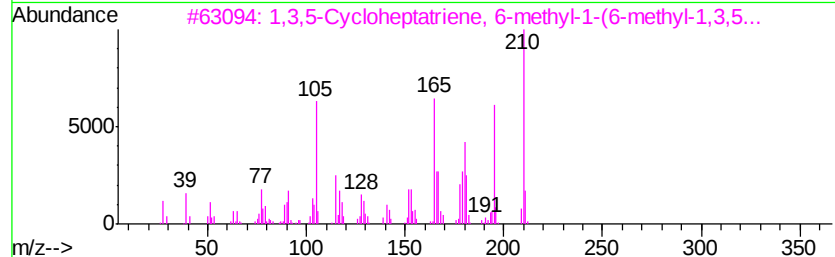
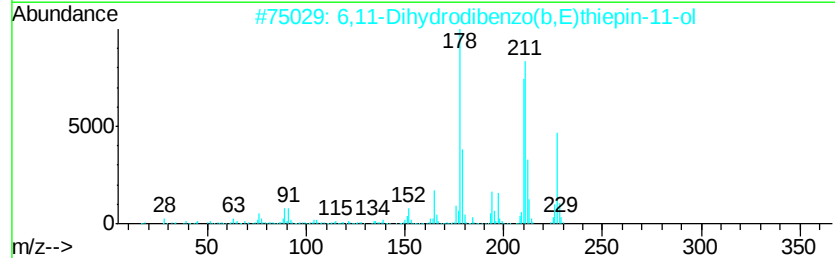
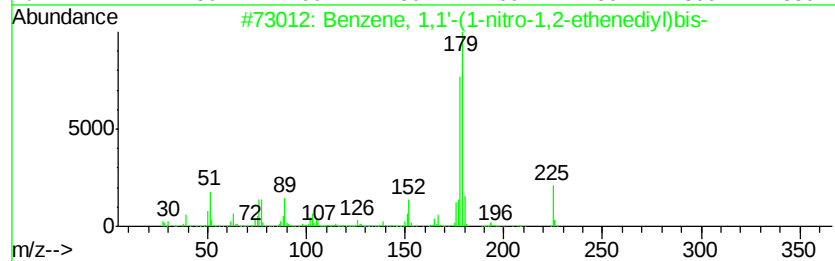
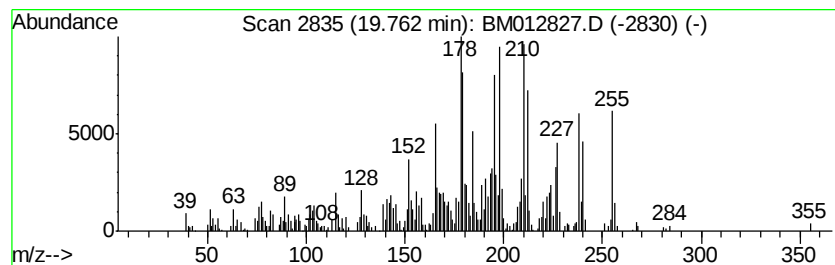
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown-01 Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.76 | 3.40 ng/ul | 420081 | Chrysene-d12     | 21.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Benzene, 1,1'-(1-nitro-1,2-ethen... | 225 | C14H11N02 | 001215-07-2  | 40   |
| 2    |    | 6,11-Dihydrodibenzo(b,E)thiepin-... | 228 | C14H12OS  | 001745-46-6  | 30   |
| 3    |    | 1,3,5-Cycloheptatriene, 6-methyl... | 210 | C16H18    | 1000154-68-1 | 25   |
| 4    |    | 1,1'-Biphenyl, 3,4-diethyl-         | 210 | C16H18    | 061141-66-0  | 20   |
| 5    |    | Methyl 3,4-dihydrophenanthrene-1... | 238 | C16H14O2  | 1000255-03-3 | 15   |



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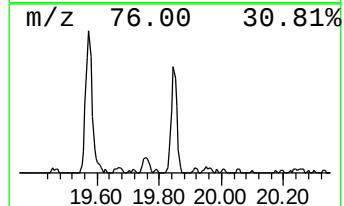
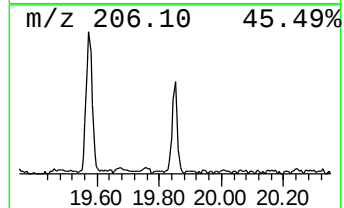
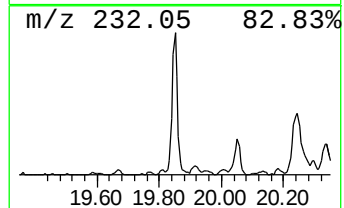
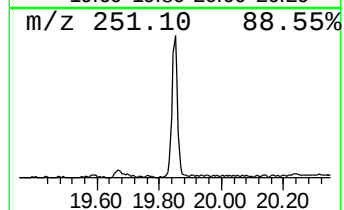
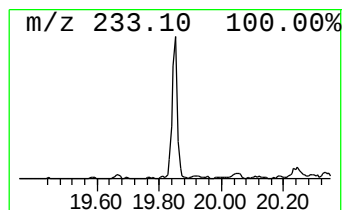
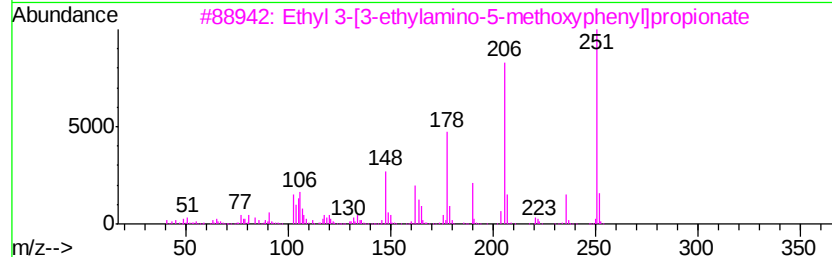
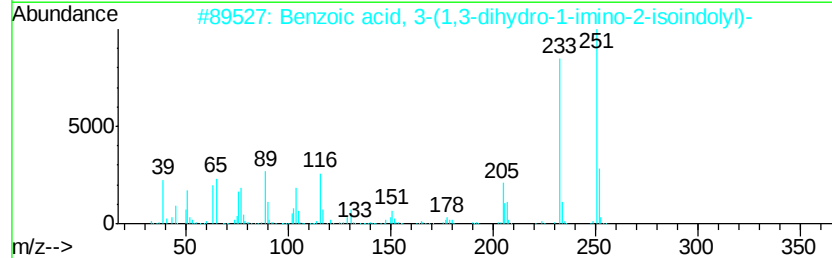
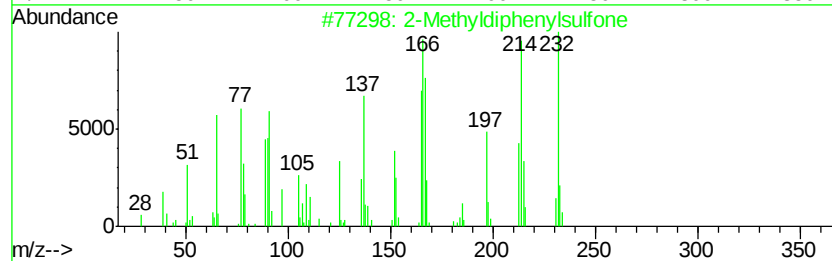
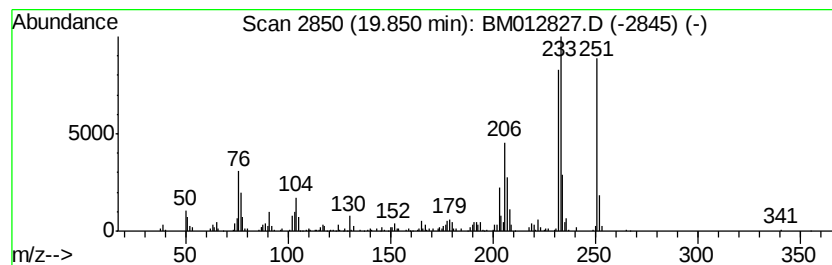
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 2-Methyldiphenylsulfone Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 19.85   | 3.04 ng/ul                          | 375279       | Chrysene-d12     | 21.36        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 2-Methyldiphenylsulfone             | 232          | C13H12O2S        | 007018-84-0  | 56   |      |
| 2       | Benzoic acid, 3-(1,3-dihydro-1-i... | 252          | C15H12N2O2       | 321689-74-1  | 27   |      |
| 3       | Ethyl 3-[3-ethylamino-5-methoxyp... | 251          | C14H21N03        | 1000213-27-4 | 22   |      |
| 4       | Quinoxaline, 2-(2,4-dimethylphen... | 234          | C16H14N2         | 060814-26-8  | 15   |      |
| 5       | 9-Isopropyl-1,5-dimethyl-2-methy... | 233          | C16H27N          | 1000185-51-9 | 15   |      |



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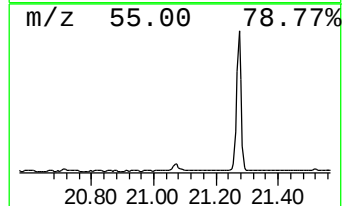
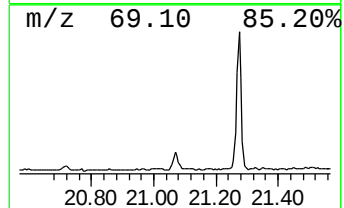
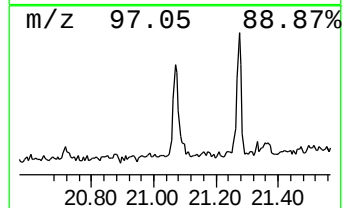
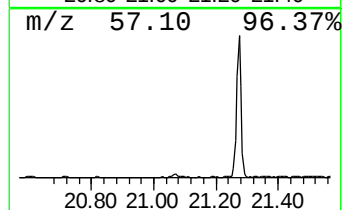
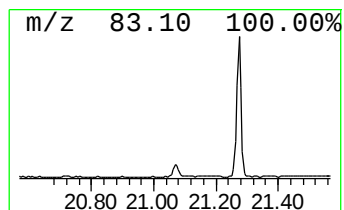
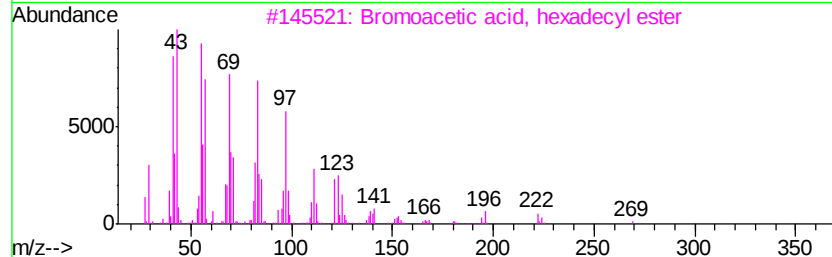
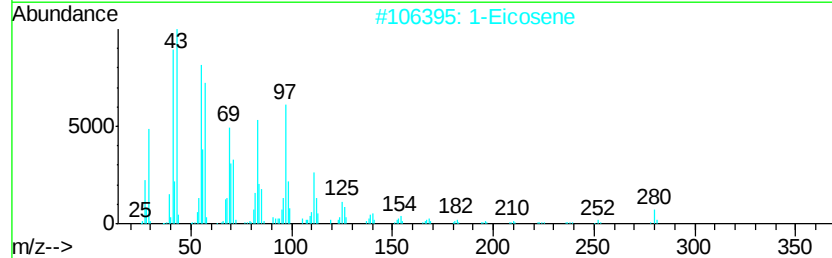
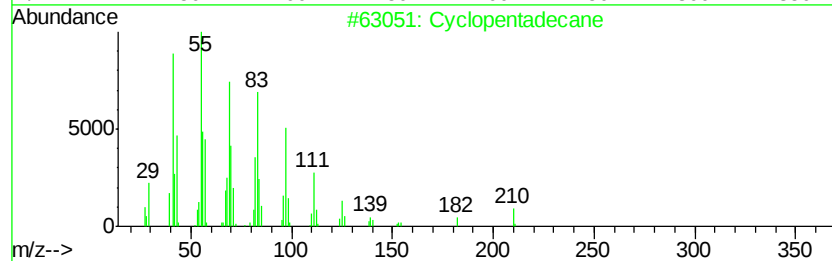
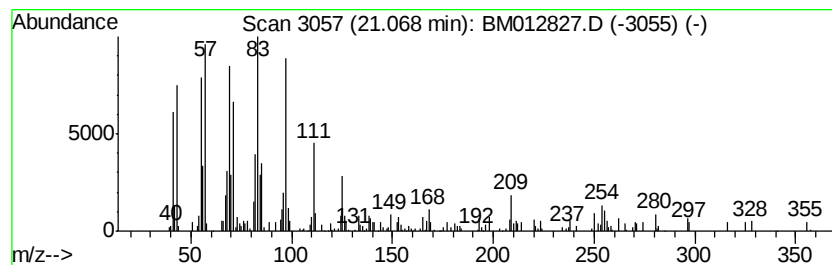
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Cyclic21.07 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.07 | 2.21 ng/ul | 272076 | Chrysene-d12     | 21.36 |

| Hit# | of | Tentative ID                      | MW  | MolForm    | CAS#        | Qual |
|------|----|-----------------------------------|-----|------------|-------------|------|
| 1    | 5  | Cyclopentadecane                  | 210 | C15H30     | 000295-48-7 | 95   |
| 2    |    | 1-Eicosene                        | 280 | C20H40     | 003452-07-1 | 64   |
| 3    |    | Bromoacetic acid, hexadecyl ester | 362 | C18H35BrO2 | 005454-48-8 | 55   |
| 4    |    | 3-Eicosene, (E)-                  | 280 | C20H40     | 074685-33-9 | 52   |
| 5    |    | Cyclohexadecane                   | 224 | C16H32     | 000295-65-8 | 49   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110817\  
Data File : BM012827.D  
Acq On : 08 Nov 2017 18:44  
Operator : SJ/JU  
Sample : I5955-04  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-17(5-6.5)-101717

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION

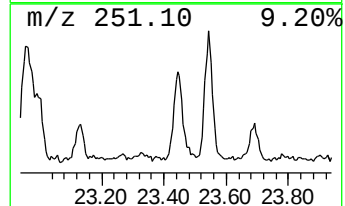
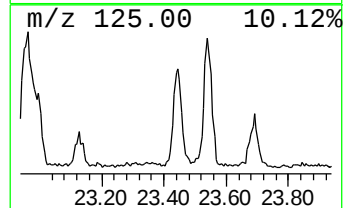
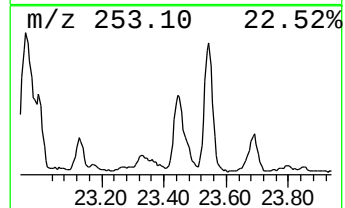
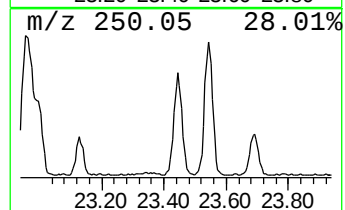
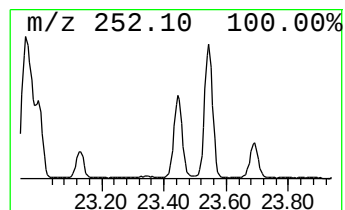
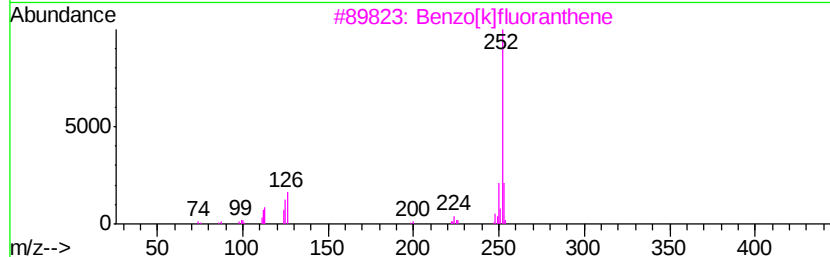
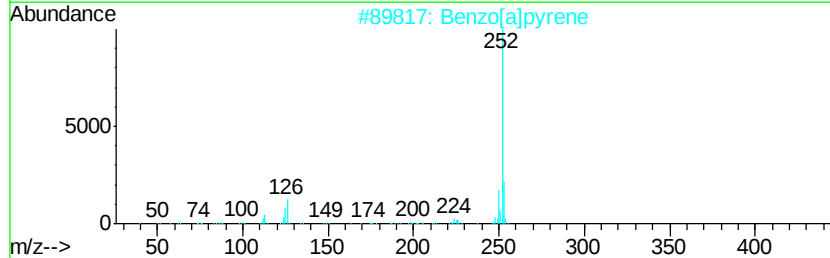
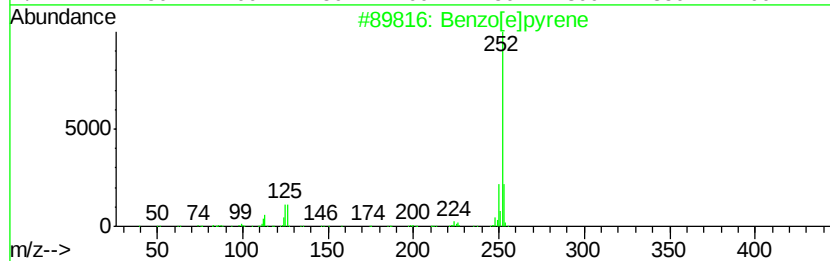
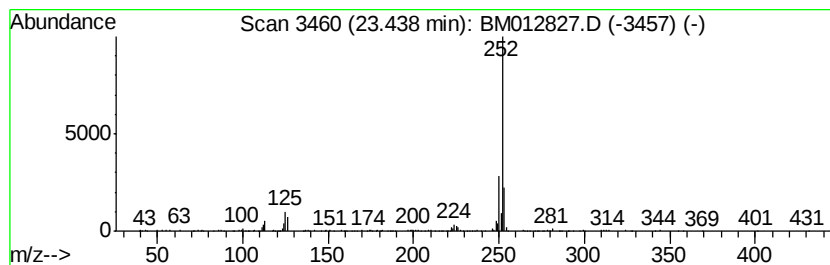
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzo[e]pyrene Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.44 | 6.80 ng/ul | 428784 | Perylene-d12     | 23.64 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 94   |
| 2    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 90   |
| 3    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 89   |
| 4    |    | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 81   |
| 5    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 81   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM110817\  
Data File : BM012827.D  
Acq On : 08 Nov 2017 18:44  
Operator : SJ/JU  
Sample : I5955-04  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-17(5-6.5)-101717

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM110417MA.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 |
| n-Hexadecanoic acid  | 18.07 | 3.6     | ng/ul | 290988   | 4                     | 17.18 | 1624720 | 20.0 |
| unknown-01           | 19.76 | 3.4     | ng/ul | 420081   | 5                     | 21.36 | 2467810 | 20.0 |
| 2-Methyldiphenyls... | 19.85 | 3.0     | ng/ul | 375279   | 5                     | 21.36 | 2467810 | 20.0 |
| (DEL) Alkane: Cyc... | 21.07 | 2.2     | ng/ul | 272076   | 5                     | 21.36 | 2467810 | 20.0 |
| Benzo[e]pyrene       | 23.44 | 6.8     | ng/ul | 428784   | 6                     | 23.64 | 1261910 | 20.0 |