

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040416\  
 Data File : BF086068.D  
 Acq On : 5 Apr 2016 6:57  
 Operator : UM/SJ  
 Sample : H2183-04  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AMBOY-SB-12(0.5-20.0)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 4.956       | 248           | 251         | 261          | rBV      | 45365          | 75425         | 2.38%           | 0.279%        |
| 2         | 5.367       | 284           | 287         | 289          | rBV      | 2588649        | 2968832       | 93.79%          | 10.969%       |
| 3         | 6.407       | 375           | 378         | 381          | rBV      | 1961140        | 2970062       | 93.82%          | 10.974%       |
| 4         | 6.533       | 387           | 389         | 391          | rBV      | 2916783        | 2793989       | 88.26%          | 10.323%       |
| 5         | 6.762       | 407           | 409         | 414          | rBV      | 766467         | 663437        | 20.96%          | 2.451%        |
| 6         | 6.922       | 420           | 423         | 425          | rBV      | 2282884        | 2474288       | 78.16%          | 9.142%        |
| 7         | 7.333       | 456           | 459         | 461          | rBV      | 1943557        | 1884447       | 59.53%          | 6.963%        |
| 8         | 8.042       | 519           | 521         | 524          | rBV      | 575366         | 771849        | 24.38%          | 2.852%        |
| 9         | 9.128       | 613           | 616         | 618          | rBV      | 3133212        | 3165555       | 100.00%         | 11.696%       |
| 10        | 9.516       | 648           | 650         | 653          | rBV      | 345484         | 365734        | 11.55%          | 1.351%        |
| 11        | 9.733       | 667           | 669         | 671          | rBV      | 40722          | 33159         | 1.05%           | 0.123%        |
| 12        | 9.802       | 672           | 675         | 677          | rVV      | 737384         | 753558        | 23.80%          | 2.784%        |
| 13        | 10.236      | 709           | 713         | 714          | rBV      | 64029          | 78372         | 2.48%           | 0.290%        |
| 14        | 10.453      | 729           | 732         | 735          | rBV2     | 26207          | 44215         | 1.40%           | 0.163%        |
| 15        | 10.591      | 741           | 744         | 746          | rBV      | 1632172        | 1537700       | 48.58%          | 5.681%        |
| 16        | 10.705      | 752           | 754         | 761          | rVB      | 95165          | 110767        | 3.50%           | 0.409%        |
| 17        | 11.151      | 791           | 793         | 794          | rBV      | 56675          | 42878         | 1.35%           | 0.158%        |
| 18        | 11.276      | 802           | 804         | 807          | rBV2     | 514914         | 619286        | 19.56%          | 2.288%        |
| 19        | 11.676      | 837           | 839         | 841          | rVB      | 384422         | 308890        | 9.76%           | 1.141%        |
| 20        | 11.814      | 849           | 851         | 853          | rBV      | 29207          | 31846         | 1.01%           | 0.118%        |
| 21        | 12.362      | 896           | 899         | 903          | rBV2     | 1307810        | 1931381       | 61.01%          | 7.136%        |
| 22        | 12.465      | 906           | 908         | 911          | rVB      | 124682         | 107178        | 3.39%           | 0.396%        |
| 23        | 12.865      | 940           | 943         | 945          | rBV      | 2345883        | 2128267       | 67.23%          | 7.863%        |
| 24        | 13.768      | 1019          | 1022        | 1028         | rBV2     | 53302          | 105545        | 3.33%           | 0.390%        |
| 25        | 13.917      | 1032          | 1035        | 1037         | rBV      | 624017         | 552858        | 17.46%          | 2.043%        |
| 26        | 14.740      | 1105          | 1107        | 1110         | rBV      | 32455          | 41292         | 1.30%           | 0.153%        |
| 27        | 15.323      | 1155          | 1158        | 1161         | rBV      | 360550         | 440179        | 13.91%          | 1.626%        |
| 28        | 18.946      | 1471          | 1475        | 1480         | rBV8     | 13809          | 64367         | 2.03%           | 0.238%        |

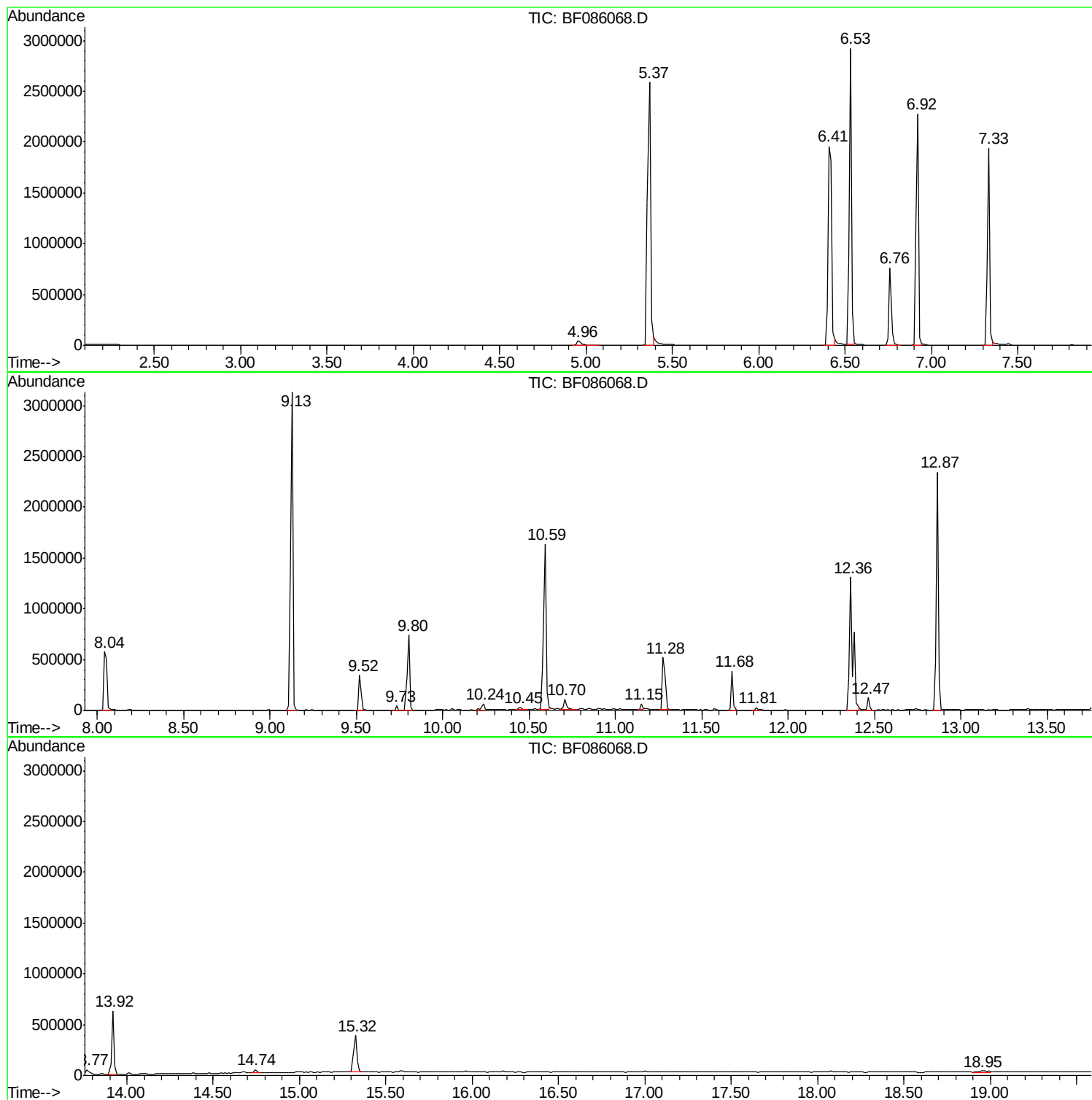
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AMBOY-SB-12(0.5-20.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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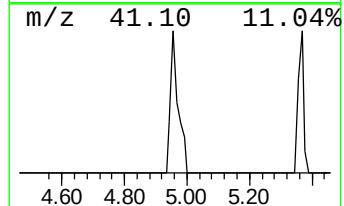
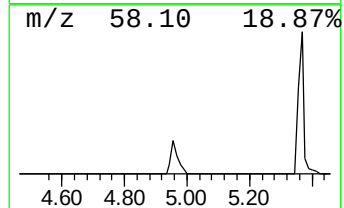
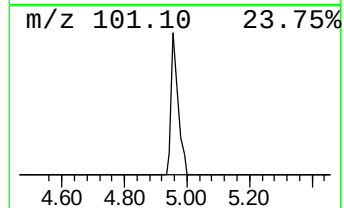
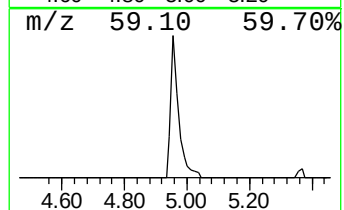
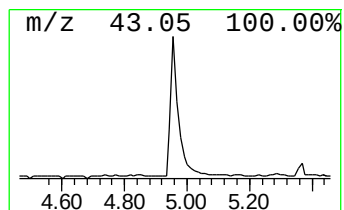
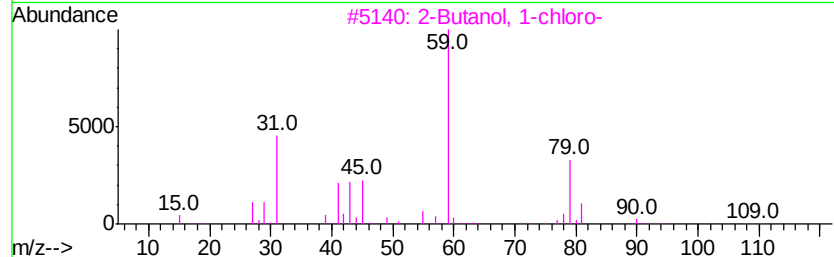
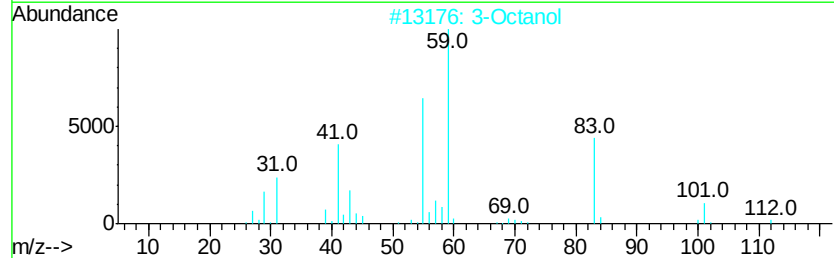
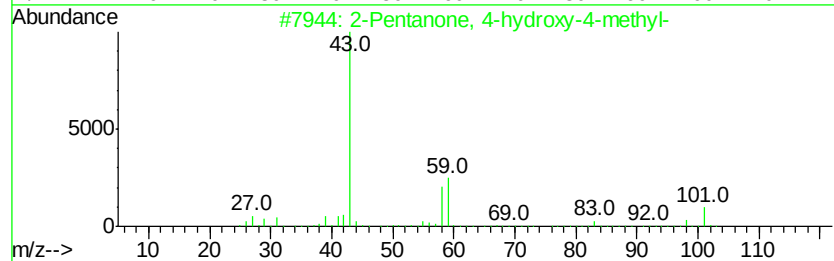
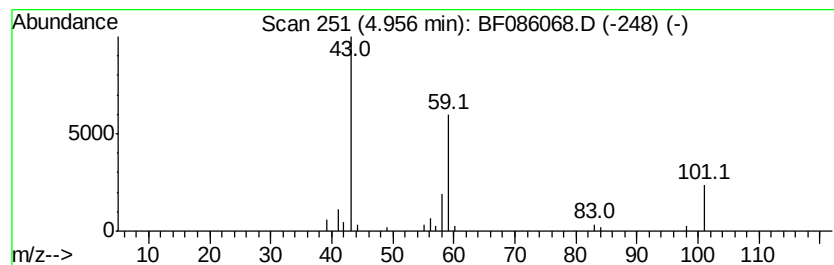
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.96 | 2.27 ng | 75425 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    | 3-Octanol                        | 130 | C8H18O  | 000589-98-0 | 25   |
| 3    |    | 2-Butanol, 1-chloro-             | 108 | C4H9ClO | 001873-25-2 | 12   |
| 4    |    | Butyl aldoxime, 3-methyl-, syn-  | 101 | C5H11NO | 005780-40-5 | 12   |
| 5    |    | 5-Hexen-2-one                    | 98  | C6H10O  | 000109-49-9 | 9    |



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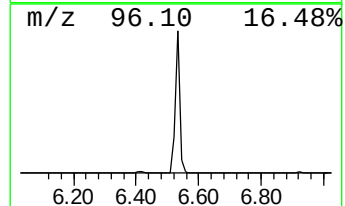
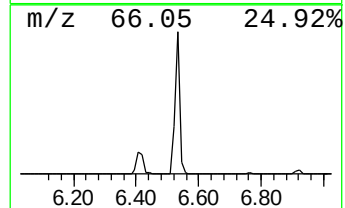
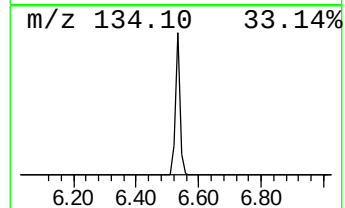
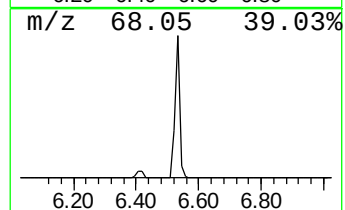
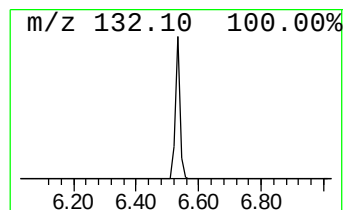
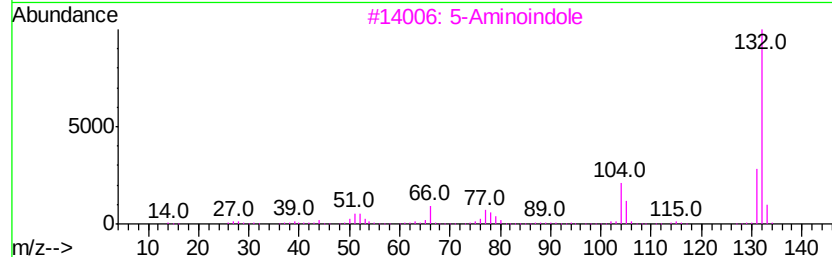
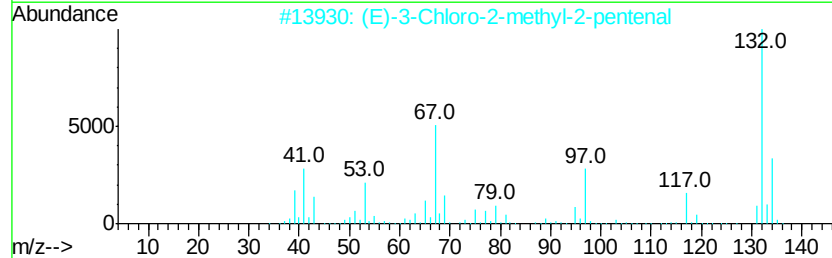
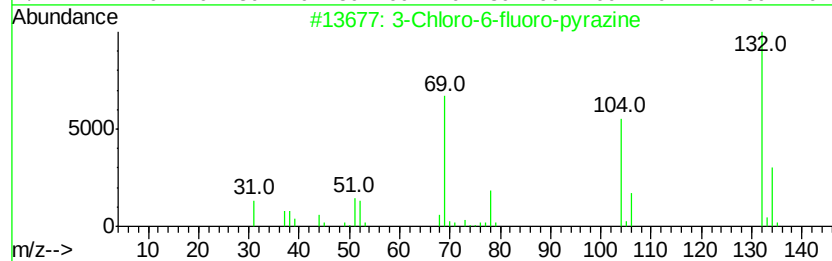
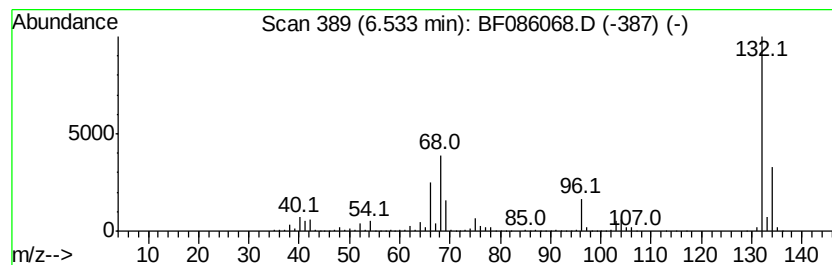
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.53 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.53 | 84.23 ng | 2793990 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 10   |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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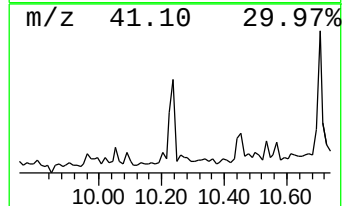
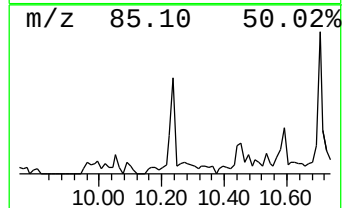
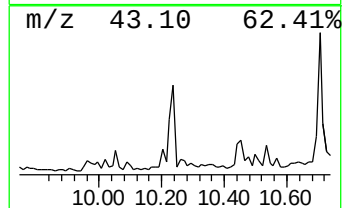
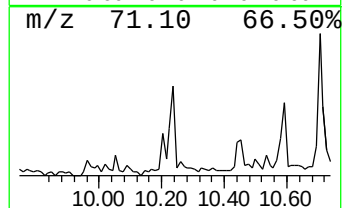
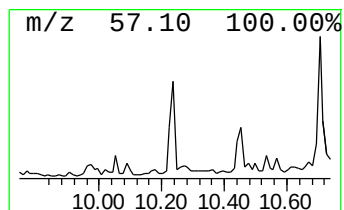
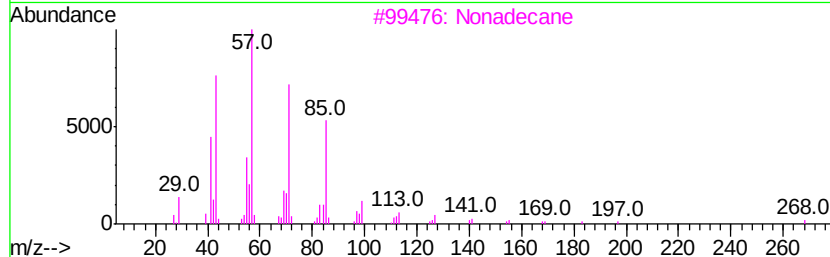
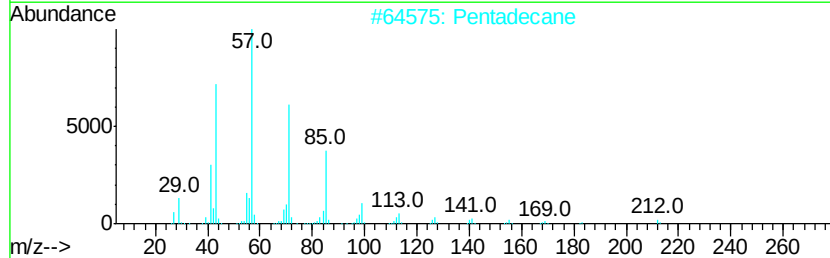
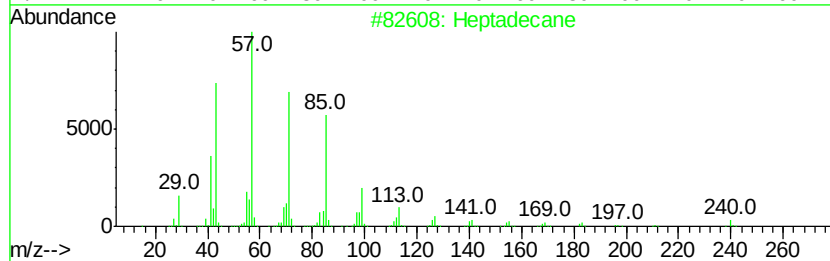
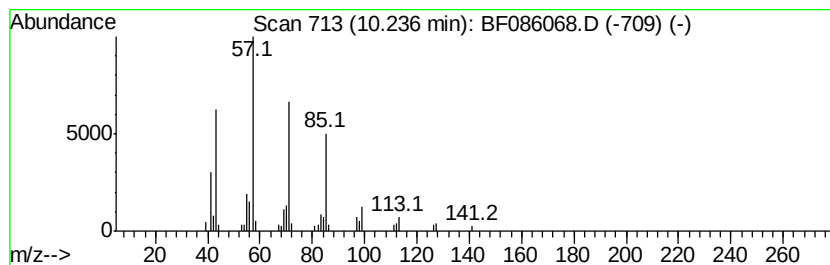
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ClientSampleId :  
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TIC Library : C:\DATABASE\NIST02.L  
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Peak Number 4 Heptadecane Concentration Rank 10

| R.T.      | EstConc      | Area  | Relative to ISTD |             | R.T. |
|-----------|--------------|-------|------------------|-------------|------|
| 10.24     | 2.08 ng      | 78372 | Acenaphthene-d10 |             | 9.80 |
| Hit# of 5 | Tentative ID | MW    | MolForm          | CAS#        | Qual |
| 1         | Heptadecane  | 240   | C17H36           | 000629-78-7 | 91   |
| 2         | Pentadecane  | 212   | C15H32           | 000629-62-9 | 90   |
| 3         | Nonadecane   | 268   | C19H40           | 000629-92-5 | 87   |
| 4         | Tetradecane  | 198   | C14H30           | 000629-59-4 | 86   |
| 5         | Hexadecane   | 226   | C16H34           | 000544-76-3 | 78   |



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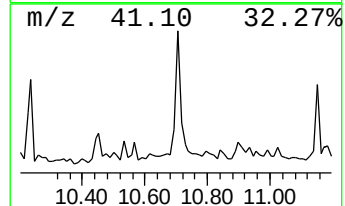
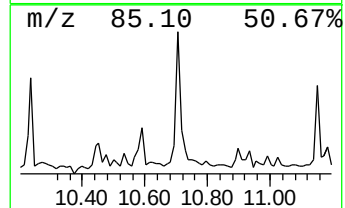
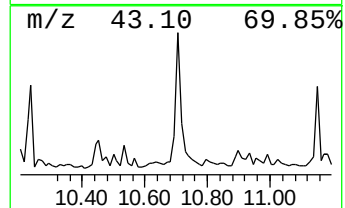
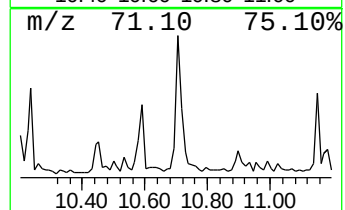
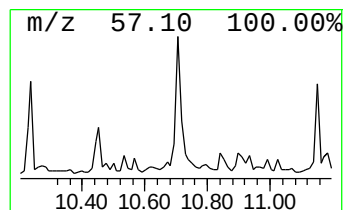
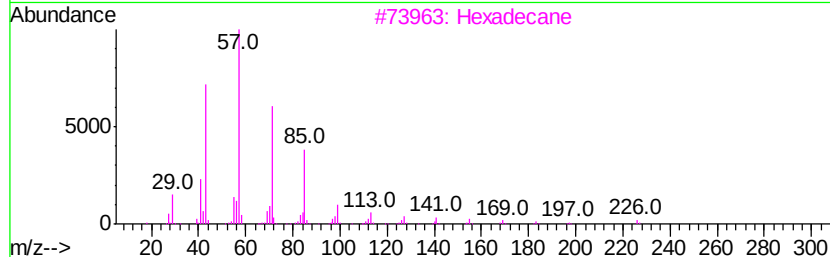
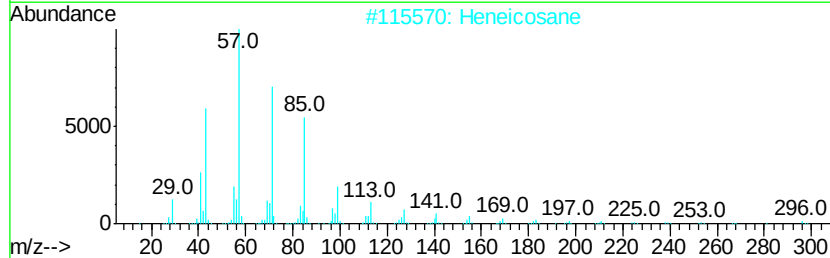
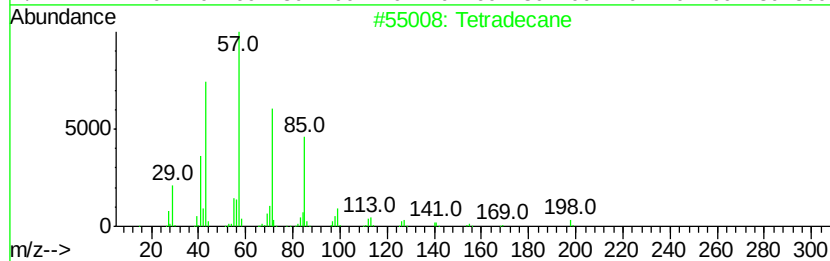
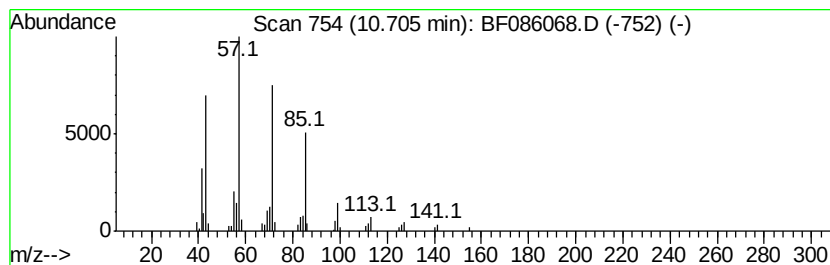
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Peak Number 5 Tetradecane Concentration Rank 6

| R.T.      | EstConc         | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------|--------|------------------|-------------|-------|
| 10.70     | 3.58 ng         | 110767 | Phenanthrene-d10 |             | 11.28 |
| Hit# of 5 | Tentative ID    | MW     | MolForm          | CAS#        | Qual  |
| 1         | Tetradecane     | 198    | C14H30           | 000629-59-4 | 91    |
| 2         | Heneicosane     | 296    | C21H44           | 000629-94-7 | 91    |
| 3         | Hexadecane      | 226    | C16H34           | 000544-76-3 | 90    |
| 4         | Tritetracontane | 605    | C43H88           | 007098-21-7 | 90    |
| 5         | Pentadecane     | 212    | C15H32           | 000629-62-9 | 90    |



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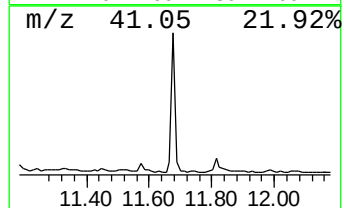
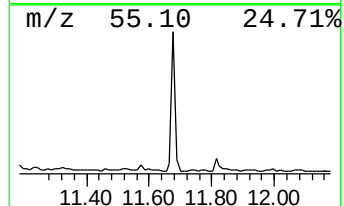
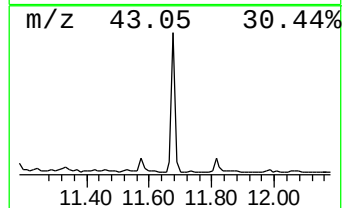
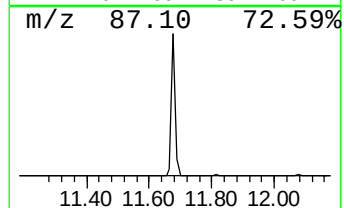
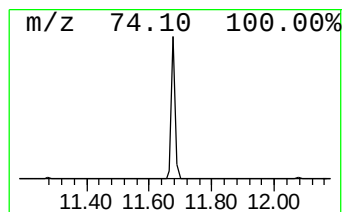
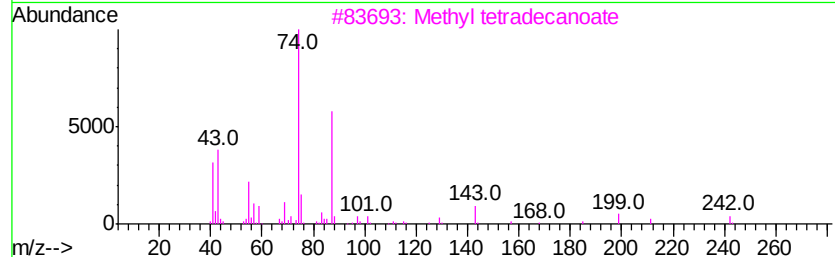
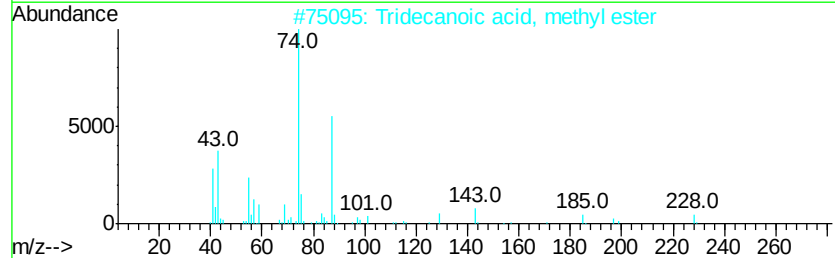
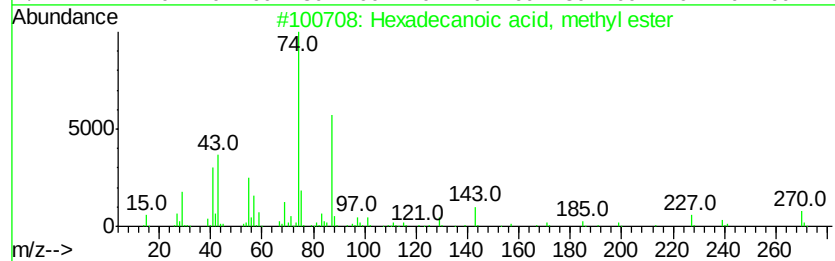
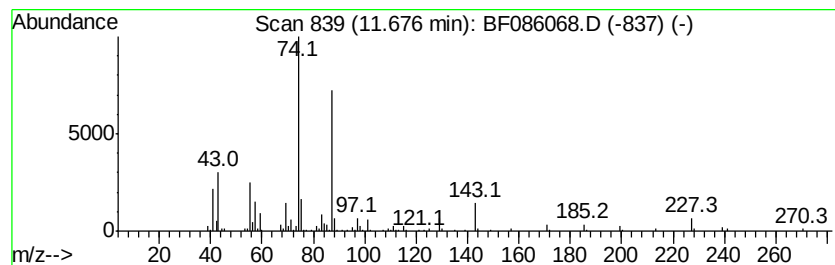
Instrument :  
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AMBOY-SB-12(0.5-20.0)

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\*\*\*\*\*  
Peak Number 6 Hexadecanoic acid, methyl e... Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 11.68     | 9.98 ng                             | 308890 | Phenanthrene-d10 |             | 11.28 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Hexadecanoic acid, methyl ester     | 270    | C17H34O2         | 000112-39-0 | 97    |
| 2         | Tridecanoic acid, methyl ester      | 228    | C14H28O2         | 001731-88-0 | 91    |
| 3         | Methyl tetradecanoate               | 242    | C15H30O2         | 000124-10-7 | 91    |
| 4         | Pentadecanoic acid, 14-methyl-, ... | 270    | C17H34O2         | 005129-60-2 | 91    |
| 5         | Hexadecanoic acid, 15-methyl-, m... | 284    | C18H36O2         | 006929-04-0 | 90    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\  
Data File : BF086068.D  
Acq On : 5 Apr 2016 6:57  
Operator : UM/SJ  
Sample : H2183-04  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-12(0.5-20.0)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

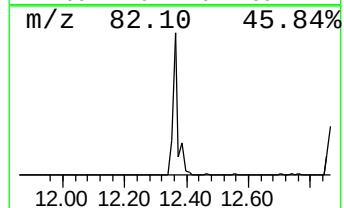
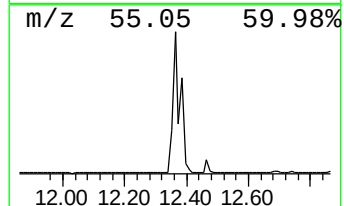
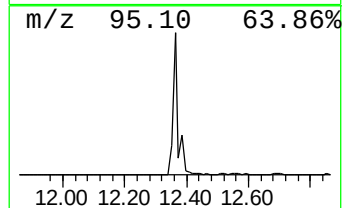
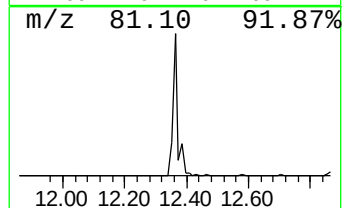
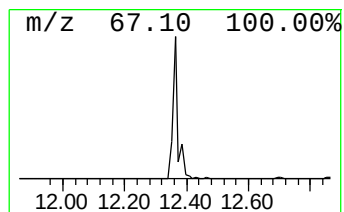
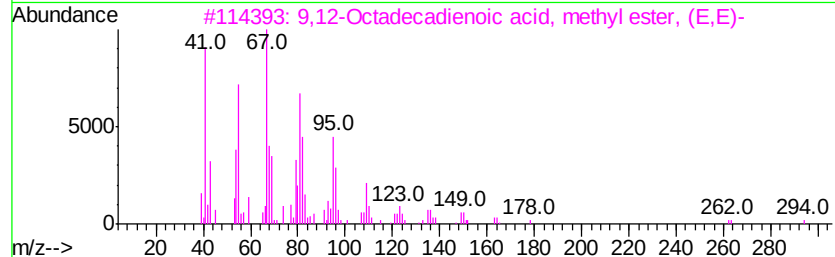
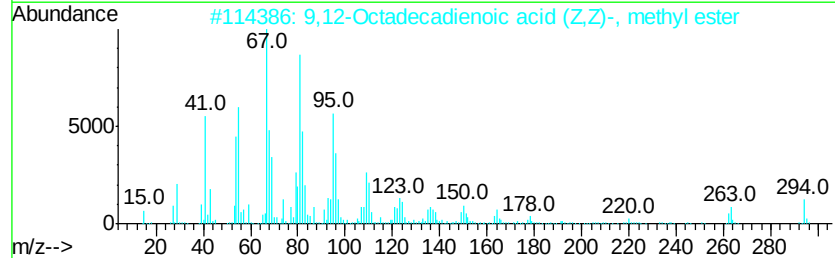
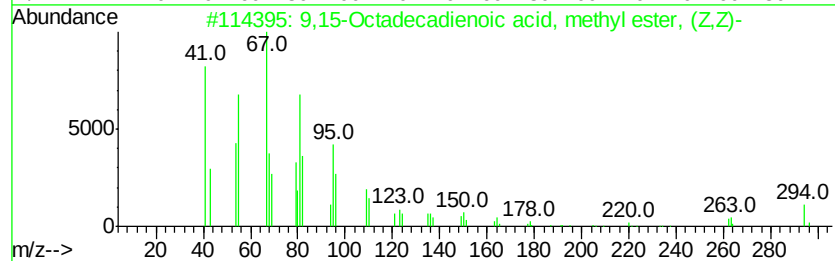
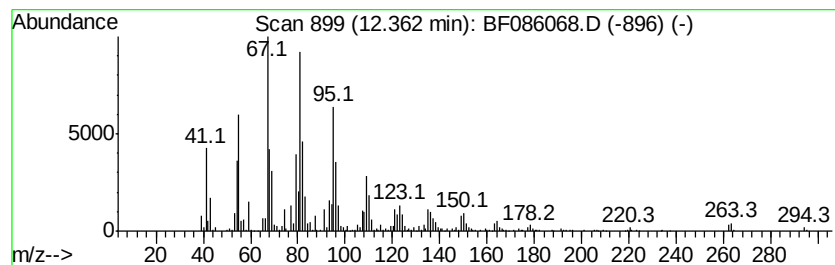
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 9,15-Octadecadienoic acid, ... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.36 | 62.37 ng | 1931380 | Phenanthrene-d10 | 11.28 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 2       |   | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |
| 3       |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 4       |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99   |
| 5       |   | 11,14-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-61-1 | 98   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040416\  
Data File : BF086068.D  
Acq On : 5 Apr 2016 6:57  
Operator : UM/SJ  
Sample : H2183-04  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

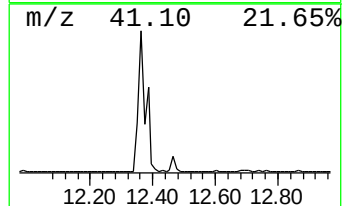
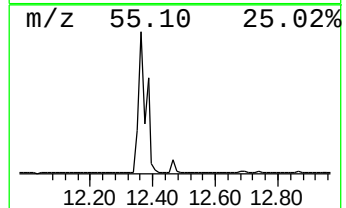
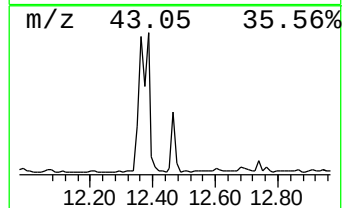
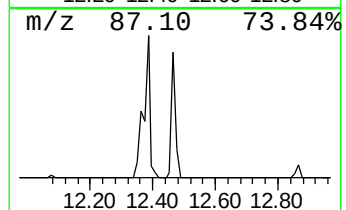
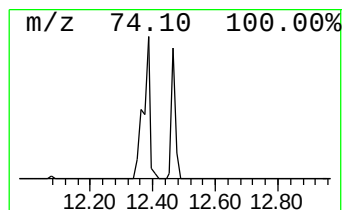
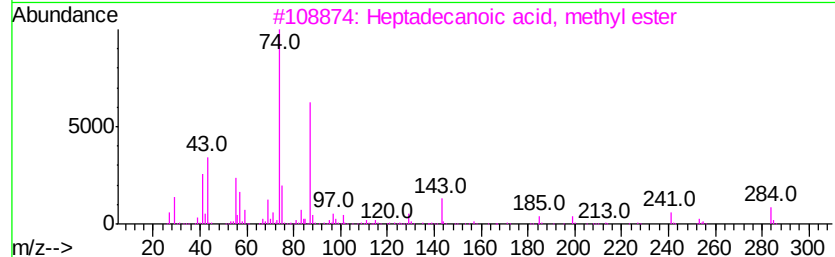
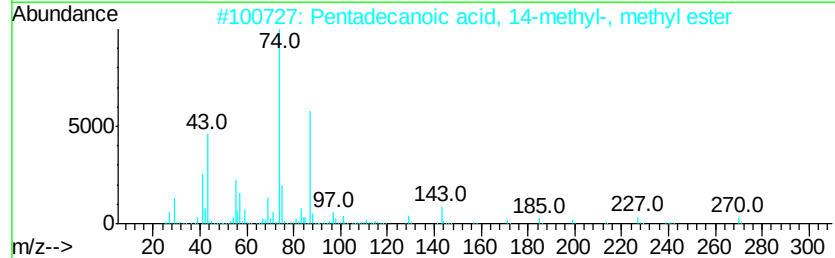
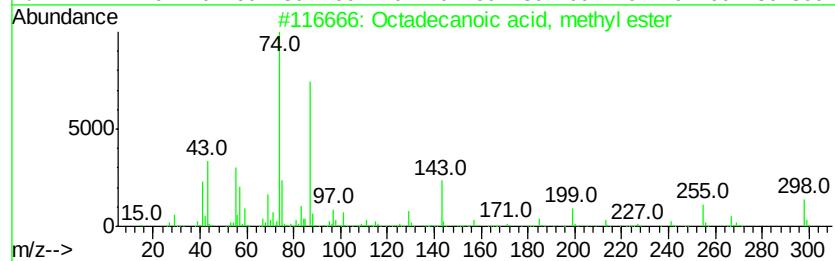
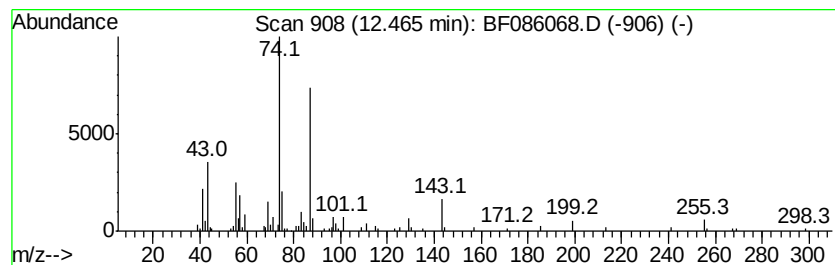
Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-12(0.5-20.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Octadecanoic acid, methyl e... Concentration Rank 7

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.           |
|---------|---------|-------------------------------------|------------------|----------------|
| 12.47   | 3.46 ng | 107178                              | Phenanthrene-d10 | 11.28          |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |         | Octadecanoic acid, methyl ester     | 298 C19H38O2     | 000112-61-8 98 |
| 2       |         | Pentadecanoic acid, 14-methyl-, ... | 270 C17H34O2     | 005129-60-2 91 |
| 3       |         | Heptadecanoic acid, methyl ester    | 284 C18H36O2     | 001731-92-6 91 |
| 4       |         | Hexadecanoic acid, 15-methyl-, m... | 284 C18H36O2     | 006929-04-0 91 |
| 5       |         | Pentadecanoic acid, methyl ester    | 256 C16H32O2     | 007132-64-1 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\  
Data File : BF086068.D  
Acq On : 5 Apr 2016 6:57  
Operator : UM/SJ  
Sample : H2183-04  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-12(0.5-20.0)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

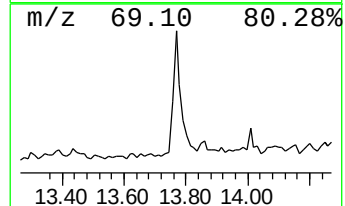
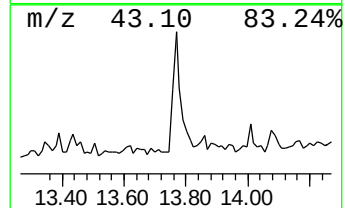
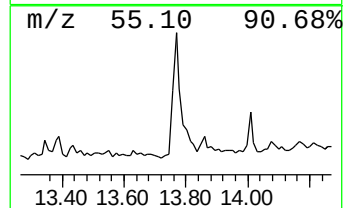
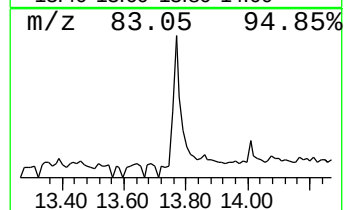
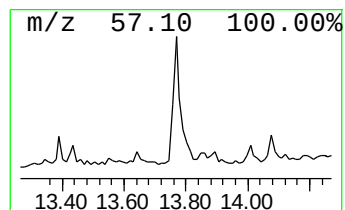
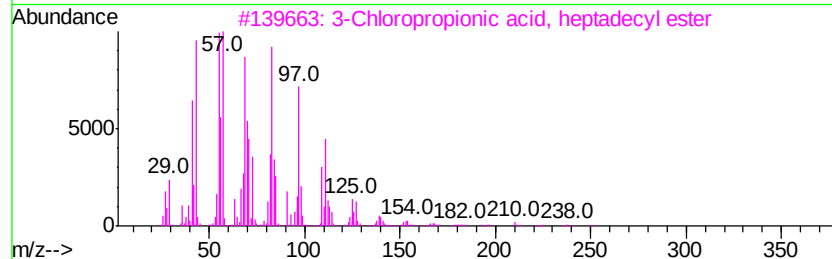
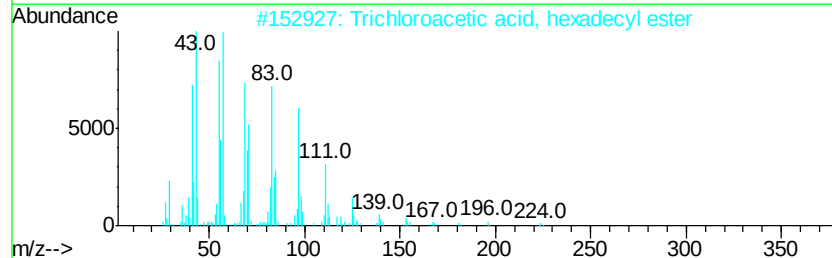
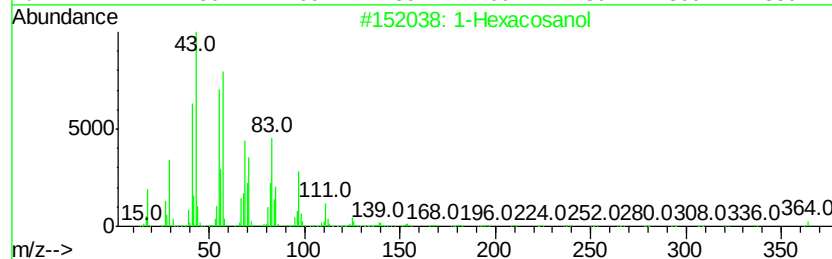
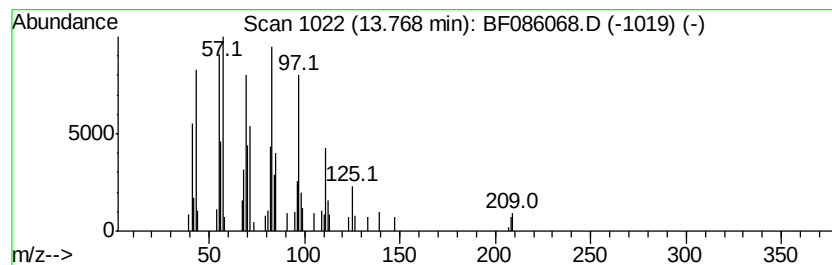
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 1-Hexacosanol Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.77 | 3.82 ng | 105545 | Chrysene-d12     | 13.92 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 1-Hexacosanol                       | 382 | C26H54O     | 000506-52-5  | 91   |
| 2    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 90   |
| 3    |    | 3-Chloropropionic acid, heptadec... | 346 | C20H39ClO2  | 1000283-05-1 | 90   |
| 4    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0  | 87   |
| 5    |    | 1-Tetracosanol                      | 354 | C24H50O     | 000506-51-4  | 87   |



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Data File : BF086068.D  
Acq On : 5 Apr 2016 6:57  
Operator : UM/SJ  
Sample : H2183-04  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-12(0.5-20.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| 2-Pentanone, 4-hy... | 4.96  | 2.3     | ng    | 75425    | 1                     | 6.76  | 663437 | 20.0 |
| unknown6.53          | 6.53  | 84.2    | ng    | 2793990  | 1                     | 6.76  | 663437 | 20.0 |
| Heptadecane          | 10.24 | 2.1     | ng    | 78372    | 3                     | 9.80  | 753558 | 20.0 |
| Tetradecane          | 10.70 | 3.6     | ng    | 110767   | 4                     | 11.28 | 619286 | 20.0 |
| Hexadecanoic acid... | 11.68 | 10.0    | ng    | 308890   | 4                     | 11.28 | 619286 | 20.0 |
| 9,15-Octadecadien... | 12.36 | 62.4    | ng    | 1931380  | 4                     | 11.28 | 619286 | 20.0 |
| Octadecanoic acid... | 12.47 | 3.5     | ng    | 107178   | 4                     | 11.28 | 619286 | 20.0 |
| 1-Hexacosanol        | 13.77 | 3.8     | ng    | 105545   | 5                     | 13.92 | 552858 | 20.0 |