

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\  
 Data File : BF087276.D  
 Acq On : 21 May 2016 16:51  
 Operator : UM/SJ  
 Sample : H3168-20  
 Misc :  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-17-COMP

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\_F\METHODS\8270-BF051716.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         | 1.701       | 8             | 10          | 40           | rVB      | 2512991        | 4926913       | 97.04%          | 10.610%       |
| 2         | 4.696       | 270           | 272         | 292          | rBV      | 300296         | 708222        | 13.95%          | 1.525%        |
| 3         | 5.153       | 309           | 312         | 314          | rBV      | 3872950        | 4540364       | 89.43%          | 9.777%        |
| 4         | 6.239       | 404           | 407         | 409          | rBV      | 4062771        | 5077193       | 100.00%         | 10.933%       |
| 5         | 6.330       | 413           | 415         | 418          | rBV      | 4508811        | 4348770       | 85.65%          | 9.365%        |
| 6         | 6.559       | 432           | 435         | 443          | rVB      | 695849         | 862097        | 16.98%          | 1.856%        |
| 7         | 6.707       | 446           | 448         | 451          | rBV      | 3285122        | 3246334       | 63.94%          | 6.991%        |
| 8         | 7.130       | 483           | 485         | 488          | rBV      | 2207742        | 3073156       | 60.53%          | 6.618%        |
| 9         | 7.839       | 545           | 547         | 550          | rBV      | 936225         | 1128987       | 22.24%          | 2.431%        |
| 10        | 8.925       | 639           | 642         | 644          | rBV      | 5289728        | 5060860       | 99.68%          | 10.898%       |
| 11        | 9.325       | 675           | 677         | 681          | rBV      | 470490         | 436984        | 8.61%           | 0.941%        |
| 12        | 9.530       | 693           | 695         | 698          | rBV      | 70188          | 79043         | 1.56%           | 0.170%        |
| 13        | 9.588       | 698           | 700         | 703          | rBV      | 1446089        | 1286520       | 25.34%          | 2.770%        |
| 14        | 10.033      | 735           | 739         | 741          | rBV      | 164461         | 162746        | 3.21%           | 0.350%        |
| 15        | 10.250      | 755           | 758         | 761          | rBV      | 50105          | 82460         | 1.62%           | 0.178%        |
| 16        | 10.376      | 767           | 769         | 772          | rBV2     | 2147020        | 3019494       | 59.47%          | 6.502%        |
| 17        | 10.502      | 778           | 780         | 787          | rVB      | 181136         | 227300        | 4.48%           | 0.489%        |
| 18        | 10.948      | 817           | 819         | 820          | rBV      | 84322          | 75909         | 1.50%           | 0.163%        |
| 19        | 11.062      | 827           | 829         | 832          | rBV      | 1089105        | 1126121       | 22.18%          | 2.425%        |
| 20        | 11.313      | 849           | 851         | 855          | rBV      | 242184         | 385081        | 7.58%           | 0.829%        |
| 21        | 11.622      | 875           | 878         | 881          | rBV      | 39988          | 72023         | 1.42%           | 0.155%        |
| 22        | 12.479      | 951           | 953         | 956          | rBV      | 293327         | 260033        | 5.12%           | 0.560%        |
| 23        | 12.651      | 965           | 968         | 970          | rBV      | 4189860        | 4182381       | 82.38%          | 9.006%        |
| 24        | 13.176      | 1012          | 1014        | 1016         | rBV      | 112366         | 147705        | 2.91%           | 0.318%        |
| 25        | 13.565      | 1045          | 1048        | 1054         | rBV      | 87831          | 180130        | 3.55%           | 0.388%        |
| 26        | 13.691      | 1057          | 1059        | 1066         | rVB      | 831459         | 838099        | 16.51%          | 1.805%        |
| 27        | 14.171      | 1097          | 1101        | 1102         | rBV      | 37653          | 52533         | 1.03%           | 0.113%        |
| 28        | 14.445      | 1123          | 1125        | 1129         | rBV2     | 43361          | 88186         | 1.74%           | 0.190%        |
| 29        | 14.525      | 1130          | 1132        | 1135         | rVV      | 57124          | 57090         | 1.12%           | 0.123%        |
| 30        | 15.039      | 1175          | 1177        | 1187         | rVB      | 430988         | 704957        | 13.88%          | 1.518%        |

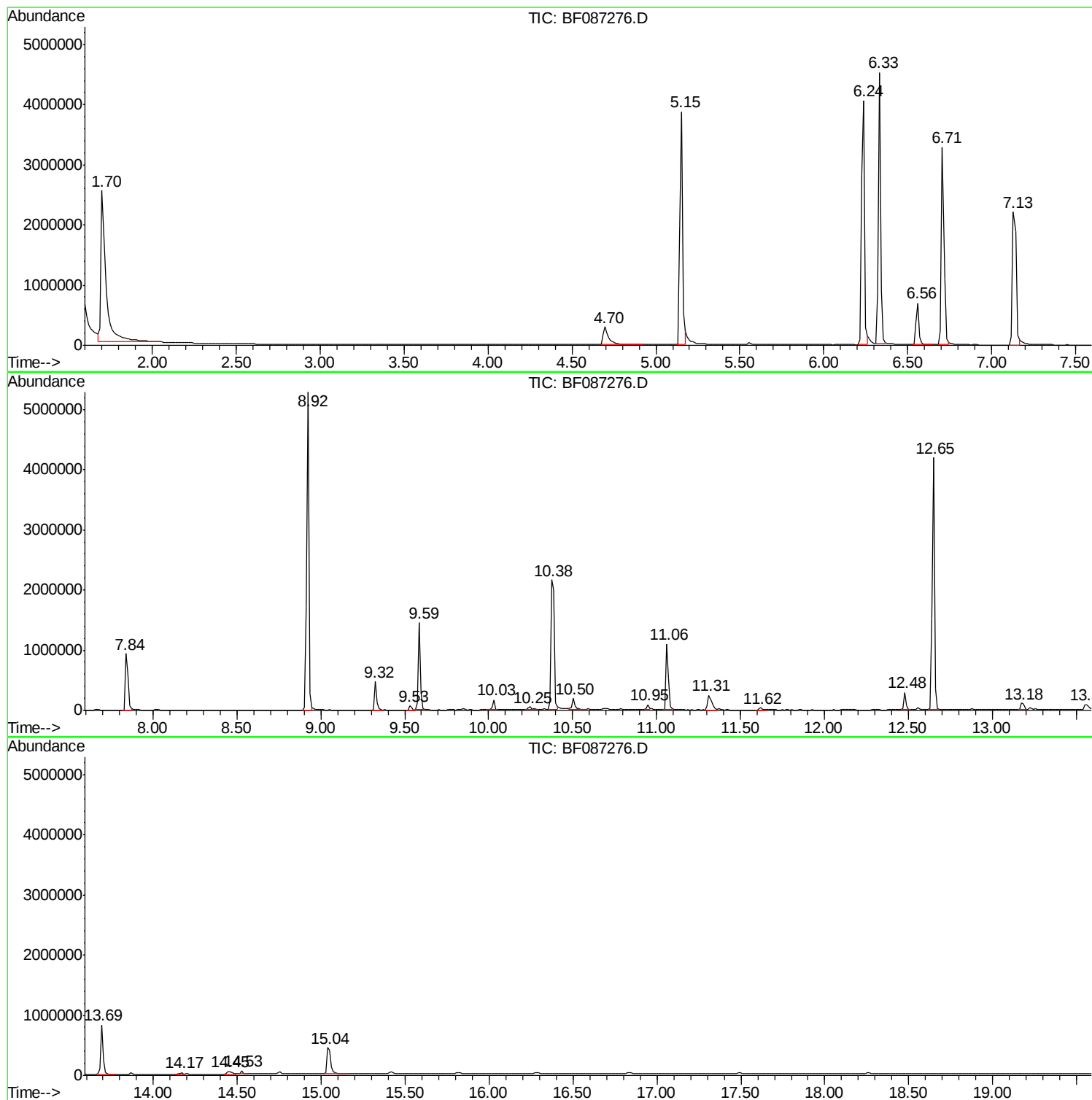
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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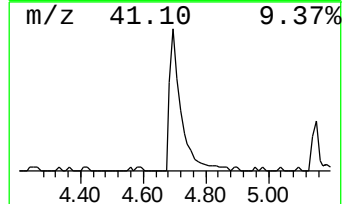
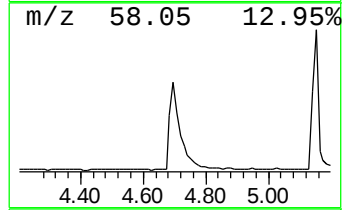
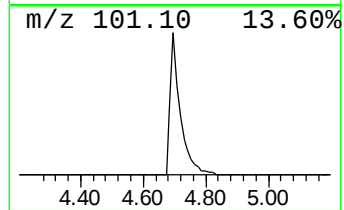
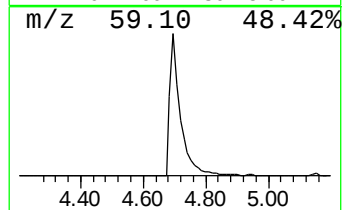
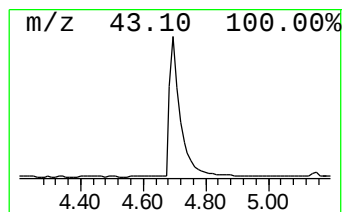
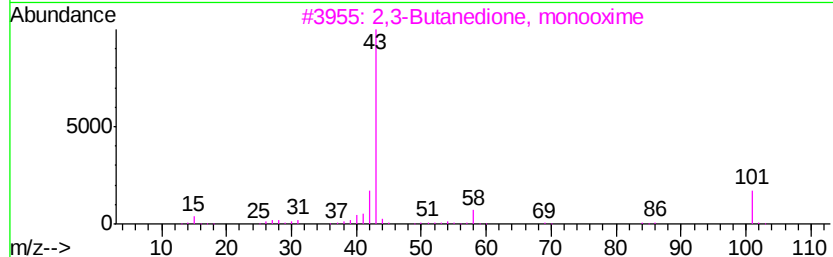
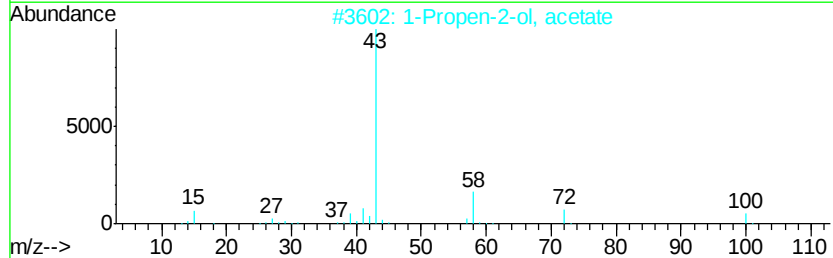
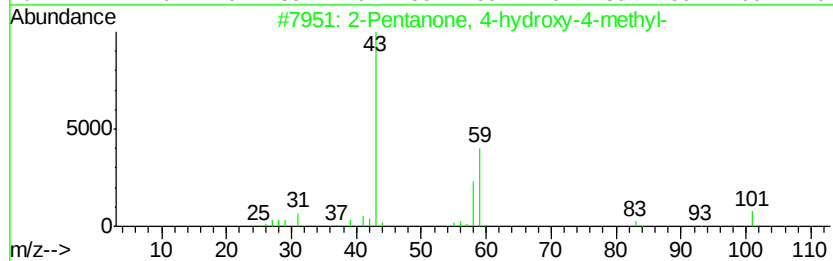
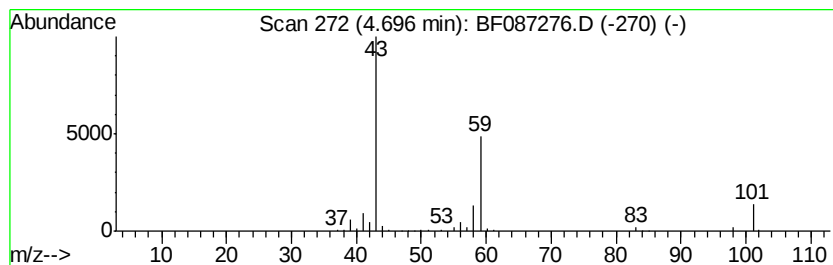
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.70 | 16.43 ng | 708222 | 1,4-Dichlorobenzene-d4 | 6.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 10   |
| 3    |    | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 9    |
| 4    |    | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9    |
| 5    |    | Thiocyanic acid, propyl ester    | 101 | C4H7NS  | 004251-16-5 | 7    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

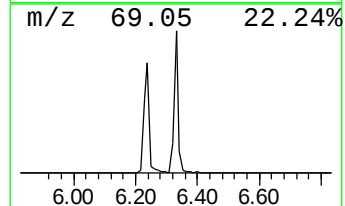
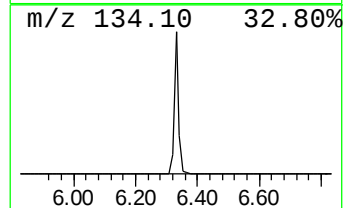
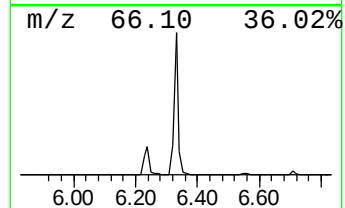
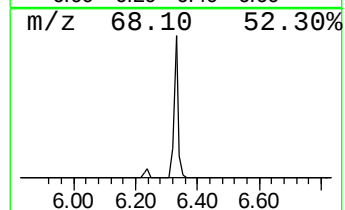
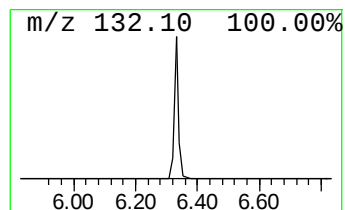
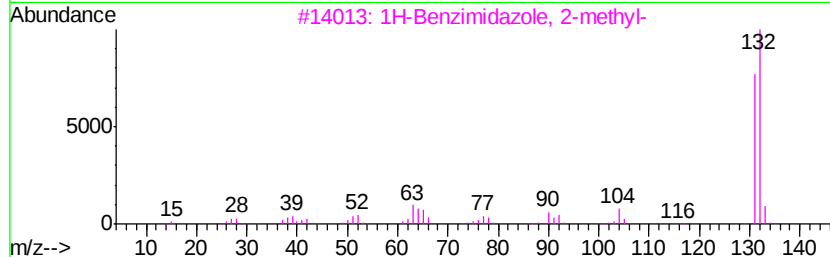
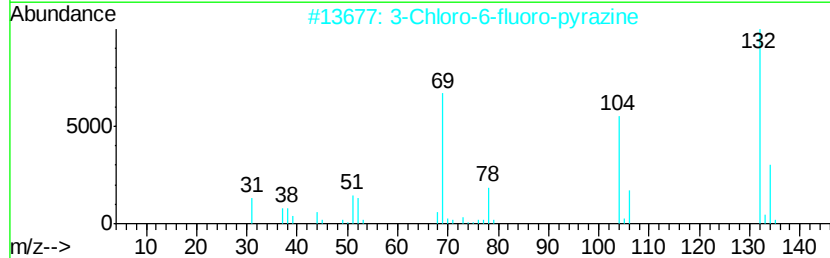
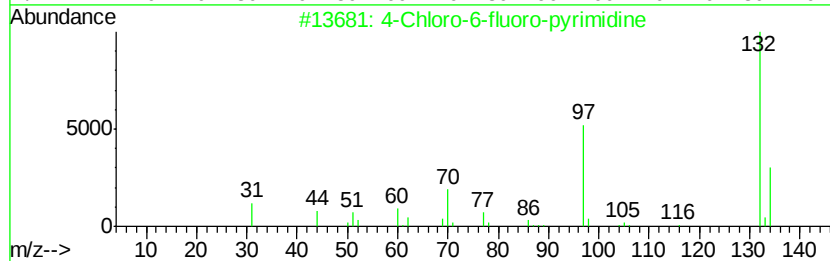
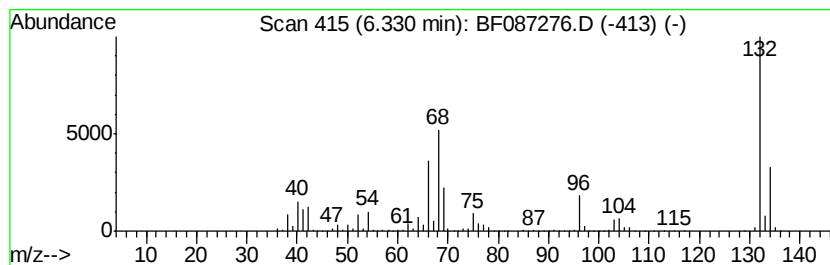
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.33 Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.33 | 100.89 ng | 4348770 | 1,4-Dichlorobenzene-d4 | 6.56 |

| Hit# | of | Tentative ID                 | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | 1H-Benzimidazole, 2-methyl-  | 132 | C8H8N2    | 000615-15-6  | 22   |
| 4    |    | Tranylcypromine-propionyl    | 189 | C12H15NO  | 1000123-86-3 | 22   |
| 5    |    | 5-Fluoro-2-chloropyrimidine  | 132 | C4H2ClFN2 | 062802-42-0  | 12   |



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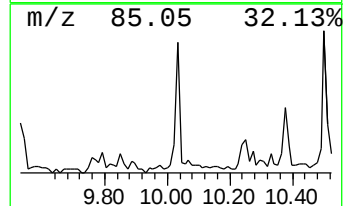
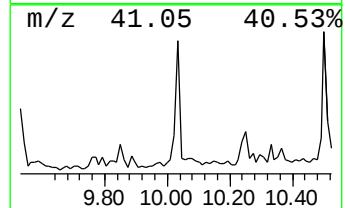
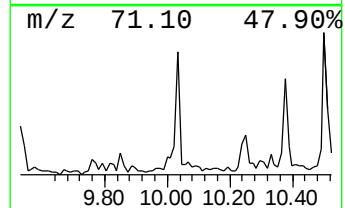
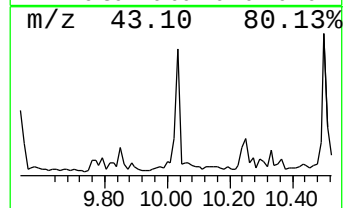
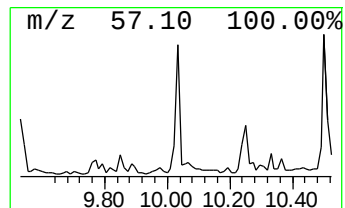
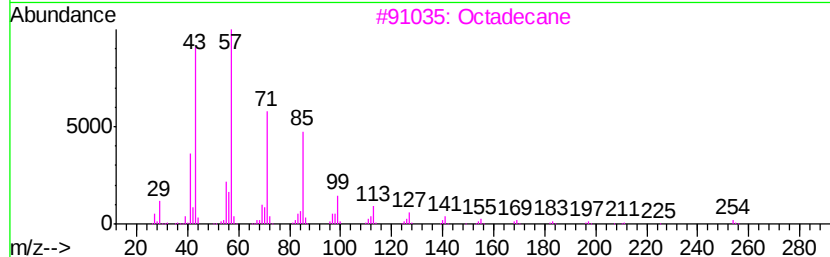
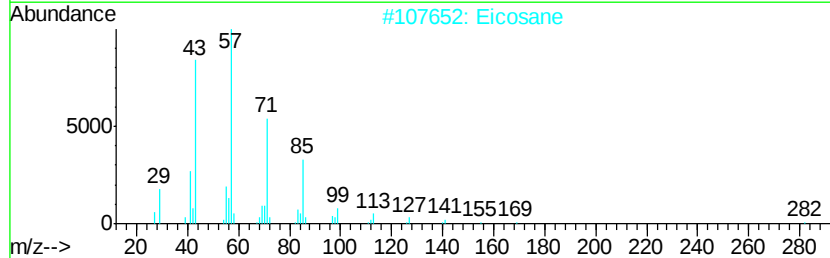
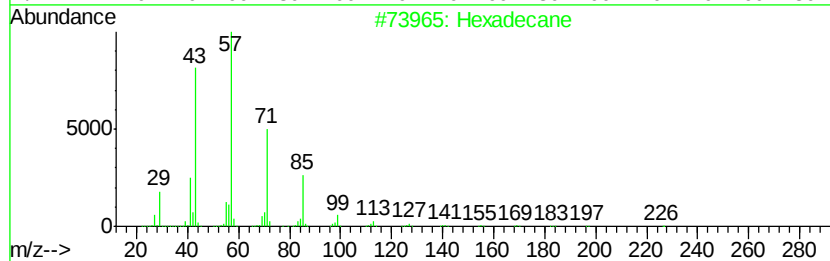
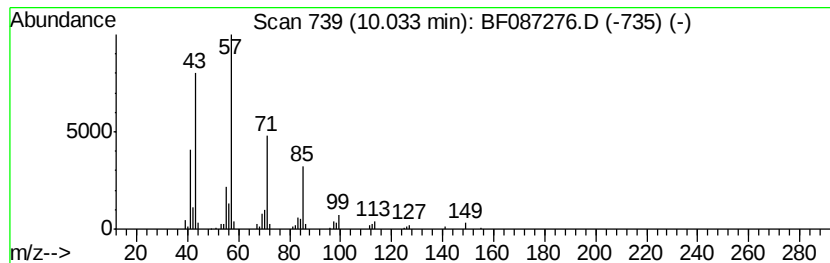
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Hexadecane Concentration Rank 10

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 10.03     | 2.53 ng                 | 162746 | Acenaphthene-d10 | 9.59        |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane              | 226    | C16H34           | 000544-76-3 | 91   |
| 2         | Eicosane                | 282    | C20H42           | 000112-95-8 | 90   |
| 3         | Octadecane              | 254    | C18H38           | 000593-45-3 | 86   |
| 4         | Tetracosane             | 338    | C24H50           | 000646-31-1 | 83   |
| 5         | 1-Iodo-2-methylundecane | 296    | C12H25I          | 073105-67-6 | 78   |



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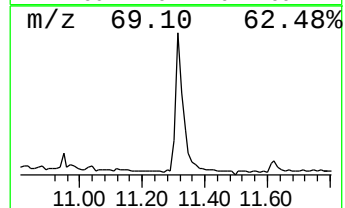
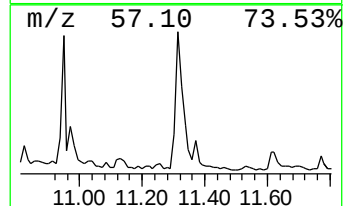
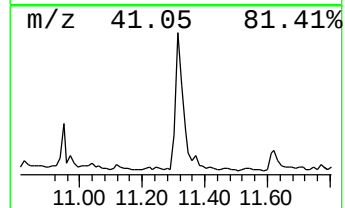
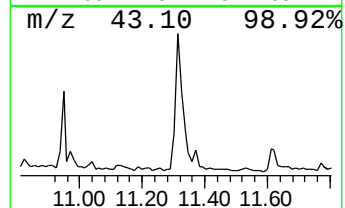
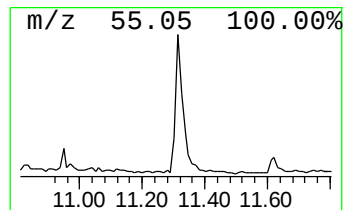
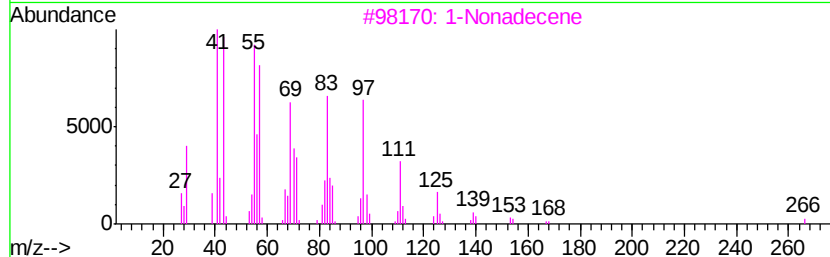
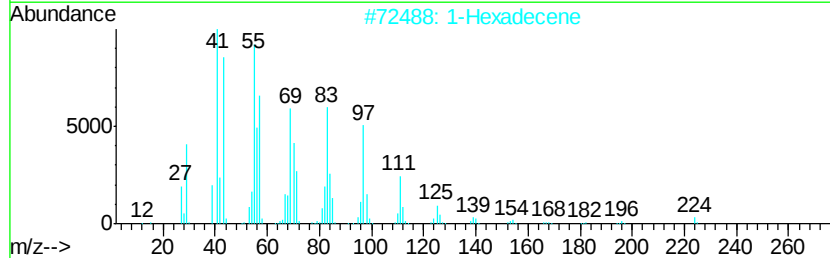
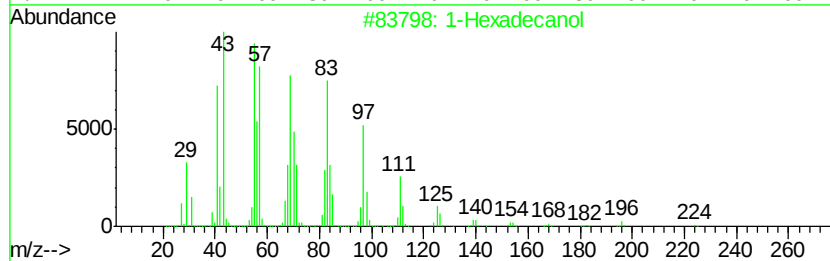
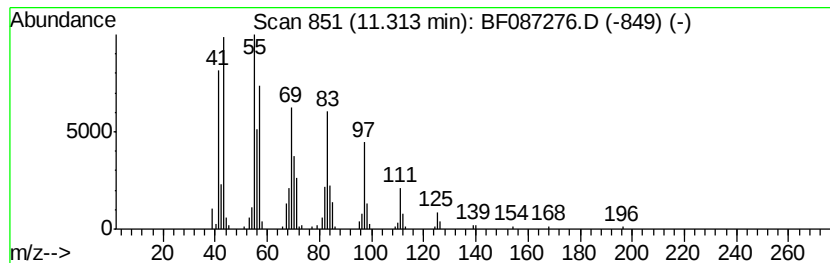
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Peak Number 7 1-Hexadecanol Concentration Rank 5

| R.T.      | EstConc            | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------|--------|------------------|-------------|------|
| 11.31     | 6.84 ng            | 385081 | Phenanthrene-d10 | 11.06       |      |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Hexadecanol      | 242    | C16H34O          | 036653-82-4 | 94   |
| 2         | 1-Hexadecene       | 224    | C16H32           | 000629-73-2 | 91   |
| 3         | 1-Nonadecene       | 266    | C19H38           | 018435-45-5 | 91   |
| 4         | 5-Octadecene, (E)- | 252    | C18H36           | 007206-21-5 | 91   |
| 5         | Cyclotetradecane   | 196    | C14H28           | 000295-17-0 | 90   |



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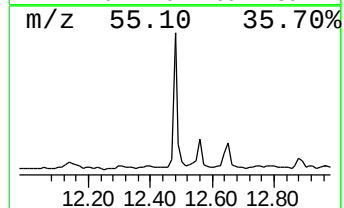
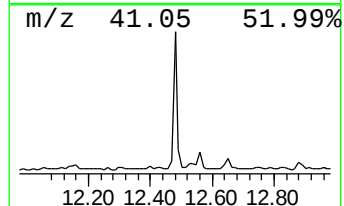
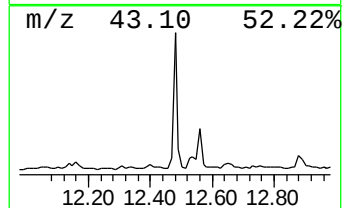
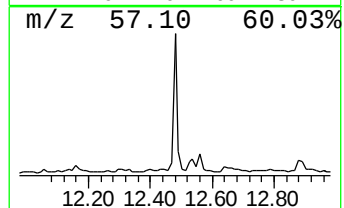
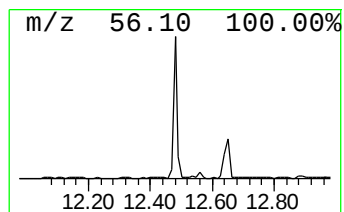
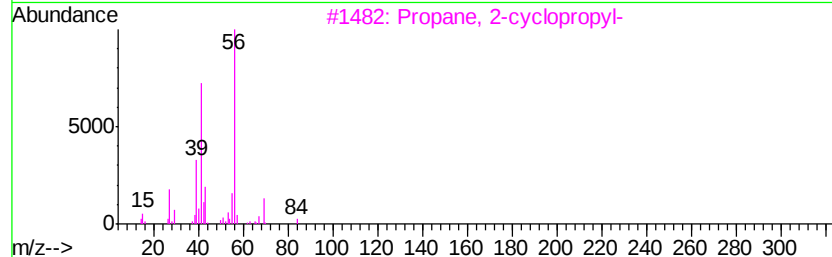
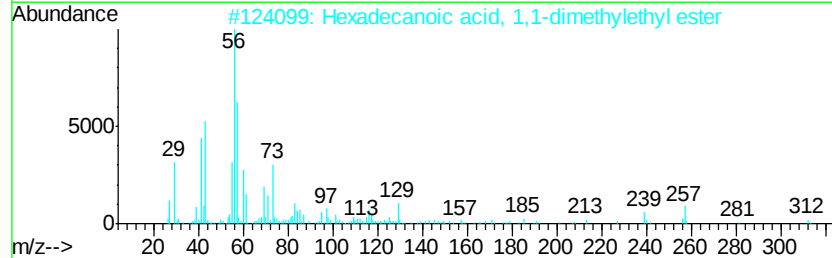
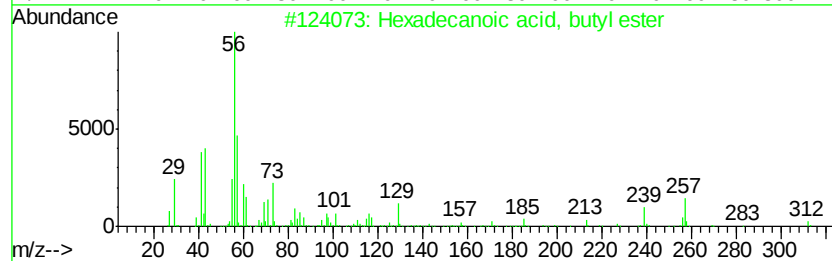
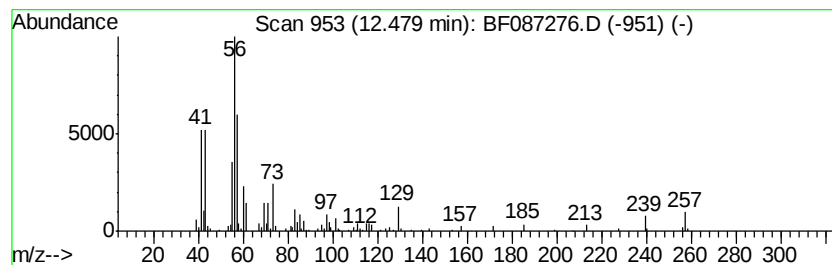
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexadecanoic acid, butyl ester Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.48 | 6.21 ng | 260033 | Chrysene-d12     | 13.69 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, butyl ester      | 312 | C20H40O2 | 000111-06-8 | 53   |
| 2    |    | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 46   |
| 3    |    | Propane, 2-cyclopropyl-             | 84  | C6H12    | 003638-35-5 | 35   |
| 4    |    | 1-Hexene, 2-methyl-                 | 98  | C7H14    | 006094-02-6 | 35   |
| 5    |    | Cyclohexane, (1,1-dimethylethyl)-   | 140 | C10H20   | 003178-22-1 | 35   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\  
Data File : BF087276.D  
Acq On : 21 May 2016 16:51  
Operator : UM/SJ  
Sample : H3168-20  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-17-COMP

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

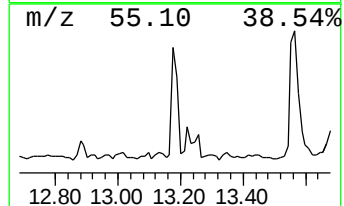
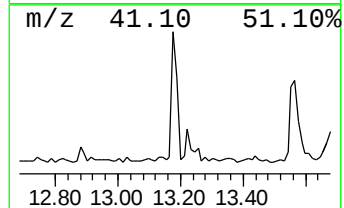
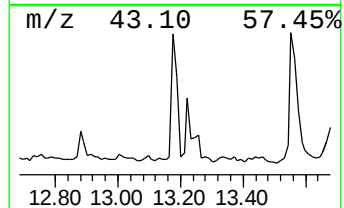
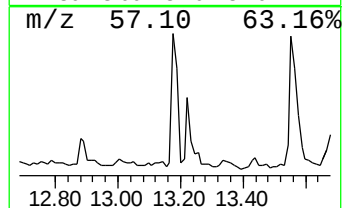
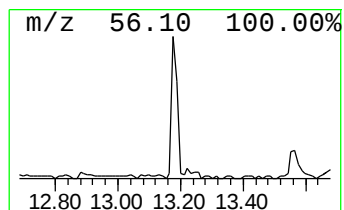
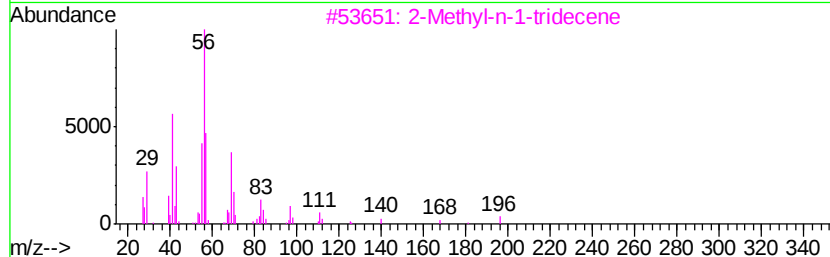
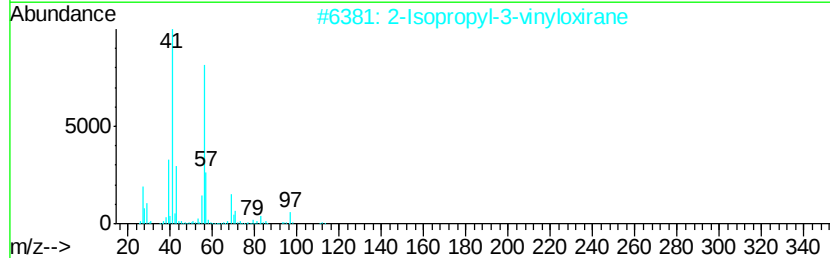
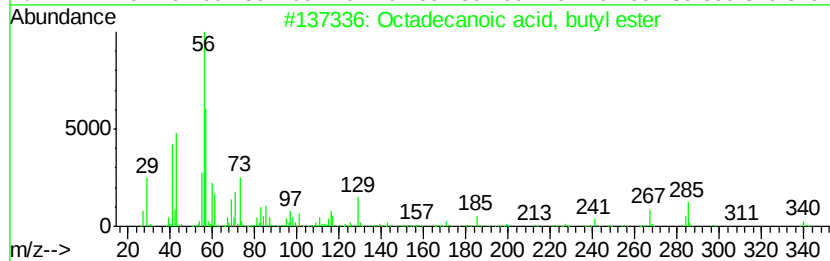
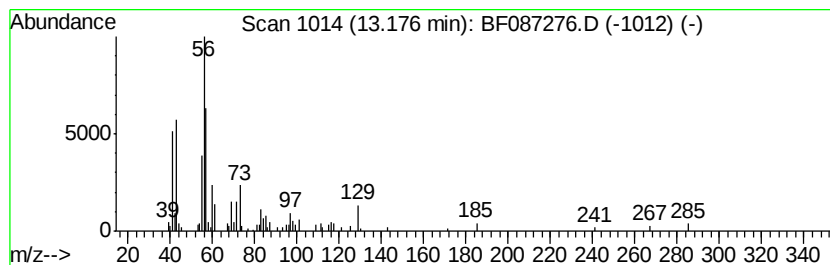
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Octadecanoic acid, butyl ester Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.18 | 3.52 ng | 147705 | Chrysene-d12     | 13.69 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid, butyl ester     | 340 | C22H44O2 | 000123-95-5 | 91   |
| 2    |    | 2-Isopropyl-3-vinyloxirane         | 112 | C7H12O   | 070777-23-0 | 43   |
| 3    |    | 2-Methyl-n-1-tridecene             | 196 | C14H28   | 018094-01-4 | 38   |
| 4    |    | 2-Butyl-1-decene                   | 196 | C14H28   | 051655-65-3 | 38   |
| 5    |    | Cyclobutane, 1,1-dimethyl-2-octyl- | 196 | C14H28   | 062338-30-1 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052016\  
Data File : BF087276.D  
Acq On : 21 May 2016 16:51  
Operator : UM/SJ  
Sample : H3168-20  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-17-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

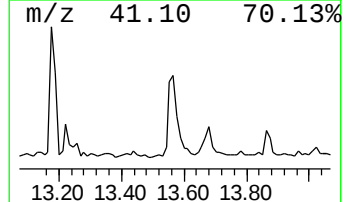
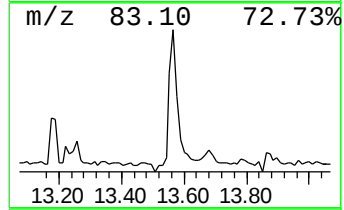
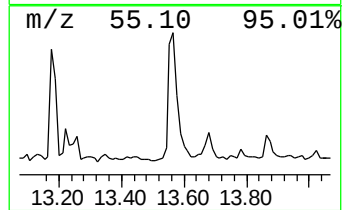
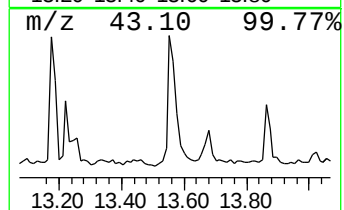
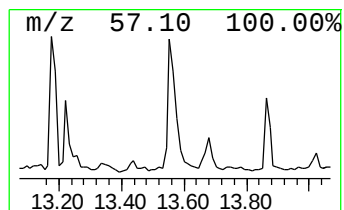
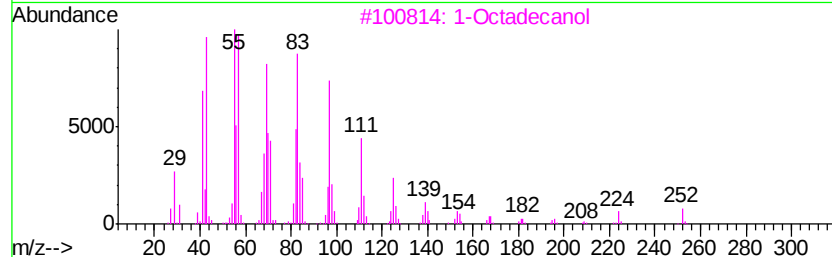
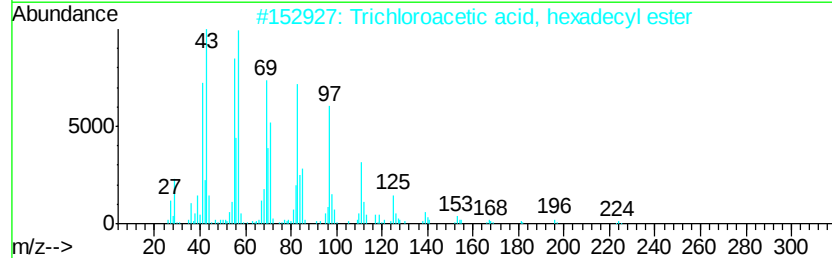
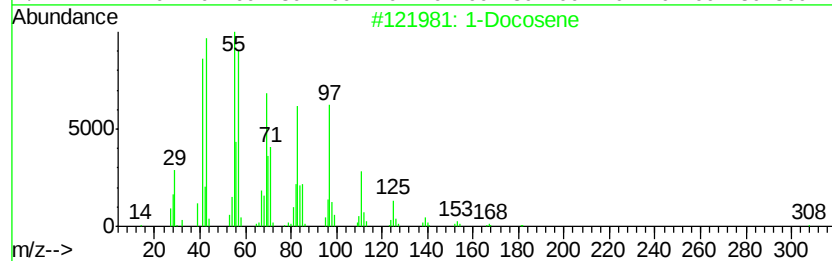
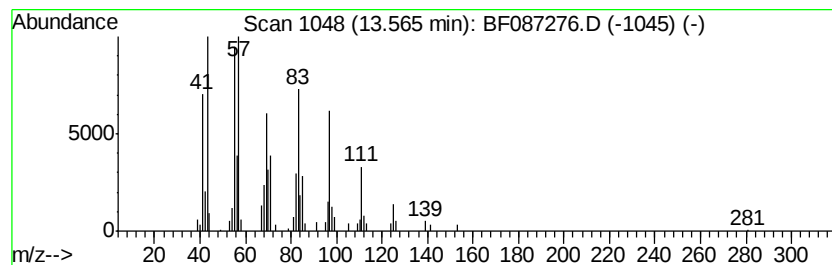
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 1-Docosene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.57 | 4.30 ng | 180130 | Chrysene-d12     | 13.69 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | 1-Docosene                          | 308 | C22H44      | 001599-67-3 | 95   |
| 2    |    |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 95   |
| 3    |    |   | 1-Octadecanol                       | 270 | C18H38O     | 000112-92-5 | 91   |
| 4    |    |   | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91   |
| 5    |    |   | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\  
Data File : BF087276.D  
Acq On : 21 May 2016 16:51  
Operator : UM/SJ  
Sample : H3168-20  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-17-COMP

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

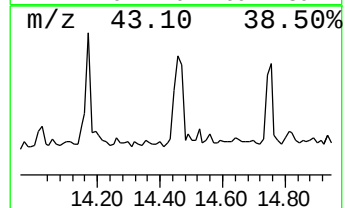
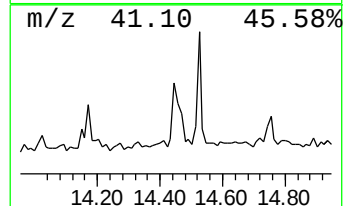
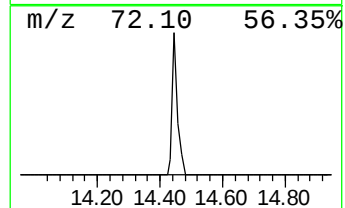
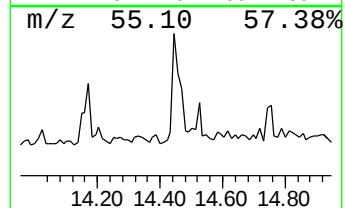
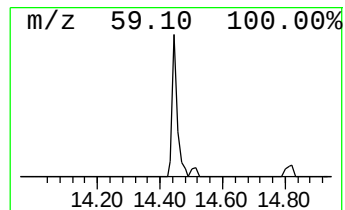
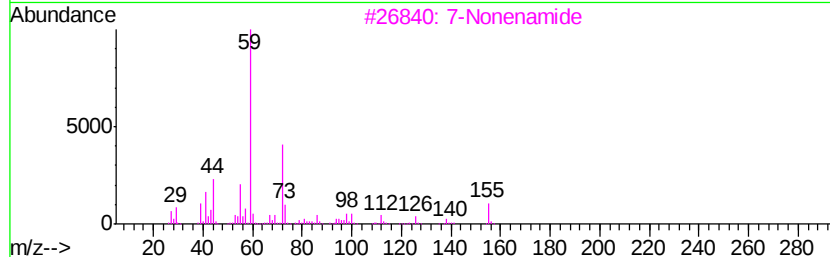
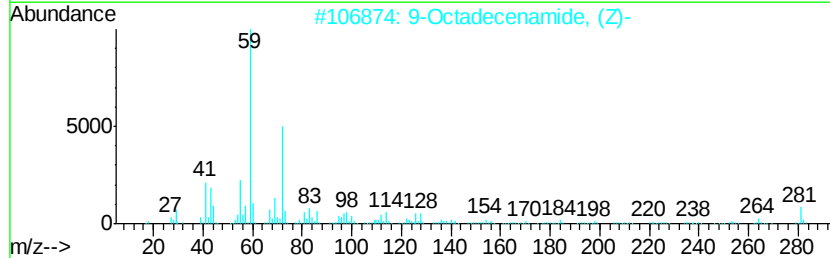
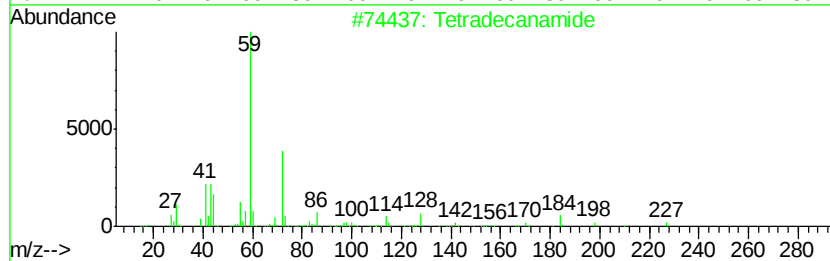
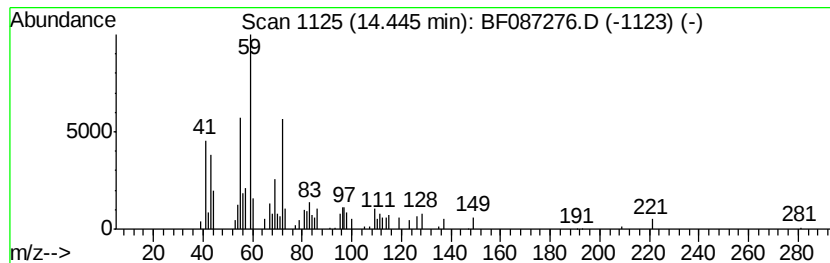
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Tetradecanamide Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.45 | 2.50 ng | 88186 | Perylene-d12     | 15.05 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm    | CAS#         | Qual |
|------|----|---|--------------------------------|-----|------------|--------------|------|
| 1    |    |   | Tetradecanamide                | 227 | C14H29NO   | 000638-58-4  | 72   |
| 2    |    |   | 9-Octadecenamide, (Z)-         | 281 | C18H35NO   | 000301-02-0  | 72   |
| 3    |    |   | 7-Nonenamide                   | 155 | C9H17NO    | 090949-53-4  | 50   |
| 4    |    |   | Pentadecanamide, 15-bromo-     | 319 | C15H30BrNO | 1000163-86-1 | 50   |
| 5    |    |   | Heptanamide, 4-ethyl-5-methyl- | 171 | C10H21NO   | 054789-40-1  | 45   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052016\  
Data File : BF087276.D  
Acq On : 21 May 2016 16:51  
Operator : UM/SJ  
Sample : H3168-20  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-17-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.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... | 4.70  | 16.4    | ng    | 708222   | 1                     | 6.56  | 862097  | 20.0 |
| unknown6.33          | 6.33  | 100.9   | ng    | 4348770  | 1                     | 6.56  | 862097  | 20.0 |
| Hexadecane           | 10.03 | 2.5     | ng    | 162746   | 3                     | 9.59  | 1286520 | 20.0 |
| 1-Hexadecanol        | 11.31 | 6.8     | ng    | 385081   | 4                     | 11.06 | 1126120 | 20.0 |
| Hexadecanoic acid... | 12.48 | 6.2     | ng    | 260033   | 5                     | 13.69 | 838099  | 20.0 |
| Octadecanoic acid... | 13.18 | 3.5     | ng    | 147705   | 5                     | 13.69 | 838099  | 20.0 |
| 1-Docosene           | 13.57 | 4.3     | ng    | 180130   | 5                     | 13.69 | 838099  | 20.0 |
| Tetradecanamide      | 14.45 | 2.5     | ng    | 88186    | 6                     | 15.05 | 704957  | 20.0 |