

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101916\  
 Data File : BF090659.D  
 Acq On : 19 Oct 2016 20:32  
 Operator : UM/SJ  
 Sample : H5317-03  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 101816-03

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-BF101316.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         | 5.069       | 237           | 239         | 250          | rBV      | 764207         | 1127743       | 22.17%          | 2.464%        |
| 2         | 5.492       | 273           | 276         | 279          | rBV      | 3719063        | 4425190       | 86.99%          | 9.668%        |
| 3         | 6.520       | 363           | 366         | 369          | rBV      | 3431967        | 4528265       | 89.01%          | 9.894%        |
| 4         | 6.657       | 375           | 378         | 380          | rBV      | 5097971        | 5001609       | 98.32%          | 10.928%       |
| 5         | 6.886       | 396           | 398         | 409          | rBV      | 1377206        | 1362671       | 26.79%          | 2.977%        |
| 6         | 7.046       | 409           | 412         | 414          | rBV      | 3428879        | 3699126       | 72.71%          | 8.082%        |
| 7         | 7.446       | 445           | 447         | 450          | rBV      | 2110669        | 2642595       | 51.94%          | 5.774%        |
| 8         | 7.549       | 453           | 456         | 463          | rVB      | 117117         | 226719        | 4.46%           | 0.495%        |
| 9         | 8.178       | 508           | 511         | 513          | rBV      | 1325035        | 1803744       | 35.46%          | 3.941%        |
| 10        | 8.292       | 519           | 521         | 531          | rVB      | 28939          | 57523         | 1.13%           | 0.126%        |
| 11        | 9.252       | 602           | 605         | 607          | rBV      | 5681151        | 5087299       | 100.00%         | 11.115%       |
| 12        | 9.641       | 637           | 639         | 642          | rBV      | 913030         | 951380        | 18.70%          | 2.079%        |
| 13        | 9.926       | 662           | 664         | 667          | rBV      | 2226540        | 2057041       | 40.43%          | 4.494%        |
| 14        | 10.715      | 731           | 733         | 736          | rBV      | 2259266        | 2423099       | 47.63%          | 5.294%        |
| 15        | 10.829      | 742           | 743         | 750          | rVB      | 79440          | 141211        | 2.78%           | 0.309%        |
| 16        | 11.286      | 780           | 783         | 784          | rBV      | 66078          | 71399         | 1.40%           | 0.156%        |
| 17        | 11.412      | 792           | 794         | 797          | rBV      | 1794347        | 1734645       | 34.10%          | 3.790%        |
| 18        | 11.469      | 797           | 799         | 805          | rVB      | 38419          | 85148         | 1.67%           | 0.186%        |
| 19        | 11.641      | 811           | 814         | 818          | rBV      | 327753         | 308022        | 6.05%           | 0.673%        |
| 20        | 12.464      | 883           | 886         | 888          | rBV      | 514862         | 730006        | 14.35%          | 1.595%        |
| 21        | 13.001      | 931           | 933         | 936          | rBV      | 3926558        | 3622852       | 71.21%          | 7.915%        |
| 22        | 13.447      | 970           | 972         | 974          | rBV      | 96971          | 96685         | 1.90%           | 0.211%        |
| 23        | 13.481      | 974           | 975         | 979          | rVV      | 41165          | 77040         | 1.51%           | 0.168%        |
| 24        | 13.847      | 1005          | 1007        | 1009         | rBV      | 108322         | 150151        | 2.95%           | 0.328%        |
| 25        | 13.892      | 1009          | 1011        | 1013         | rVV      | 354907         | 500964        | 9.85%           | 1.095%        |
| 26        | 13.927      | 1013          | 1014        | 1017         | rVV      | 206844         | 172234        | 3.39%           | 0.376%        |
| 27        | 14.052      | 1021          | 1025        | 1031         | rBV      | 1253397        | 1382640       | 27.18%          | 3.021%        |
| 28        | 15.504      | 1149          | 1152        | 1159         | rBV      | 952949         | 1302645       | 25.61%          | 2.846%        |

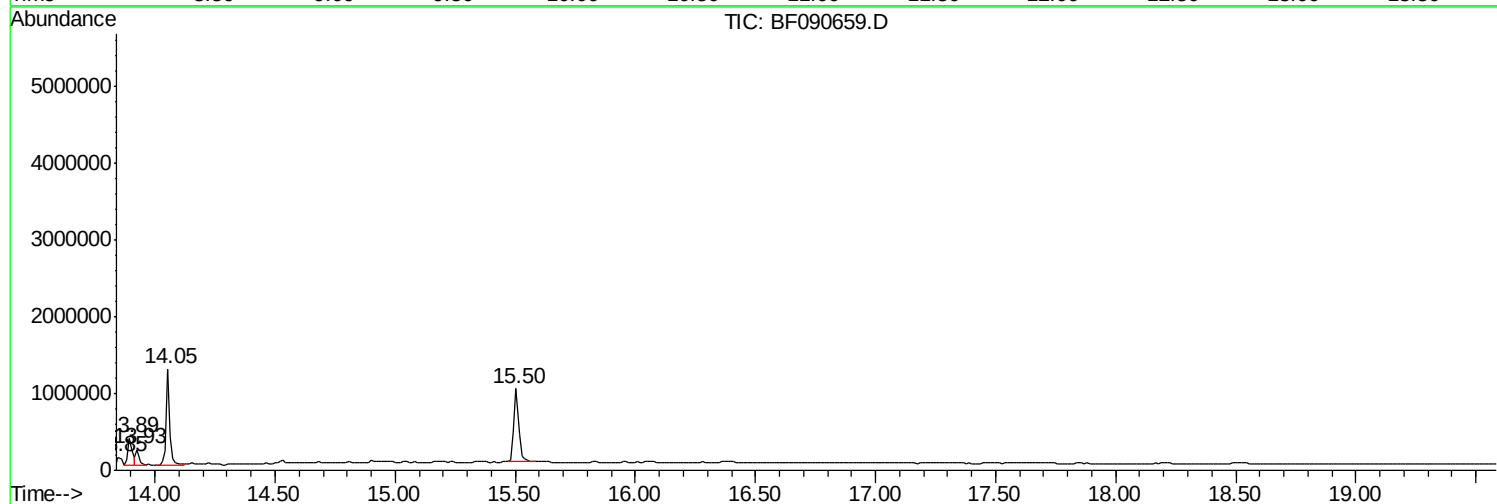
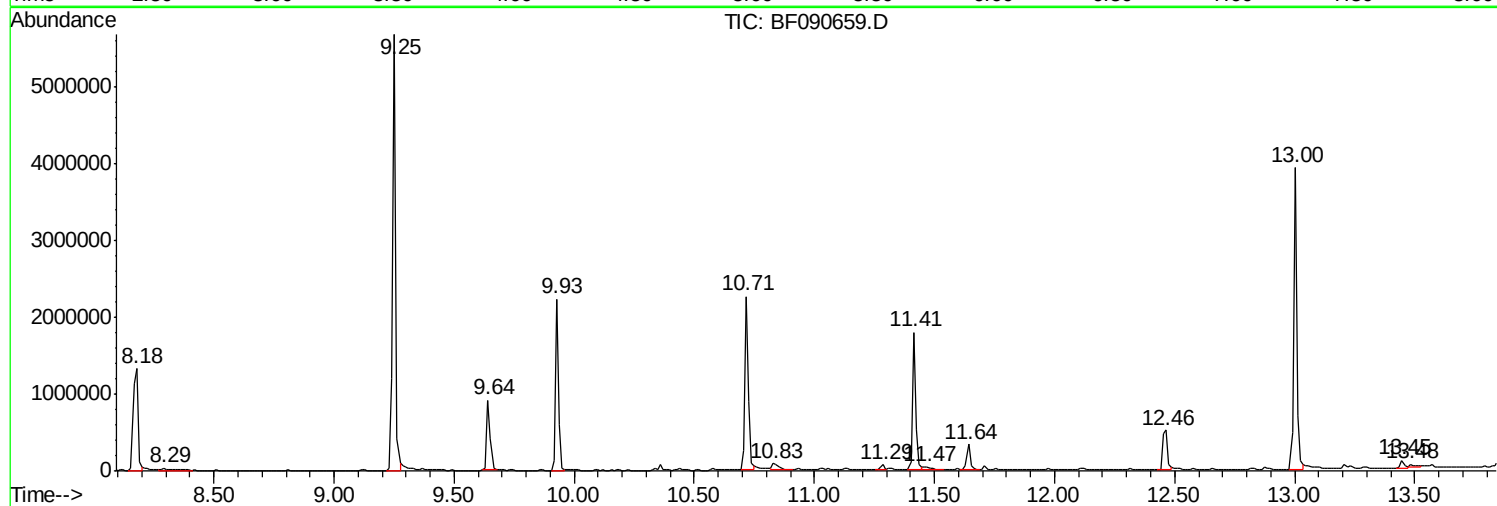
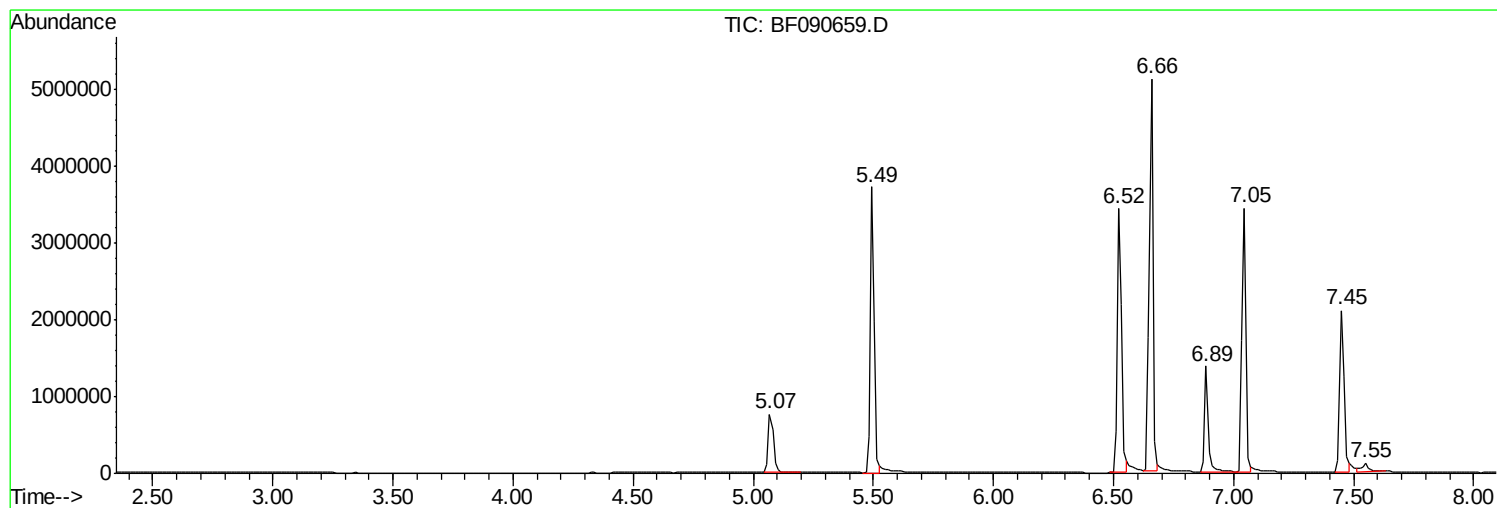
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ClientSampleId :  
101816-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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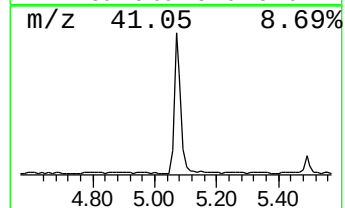
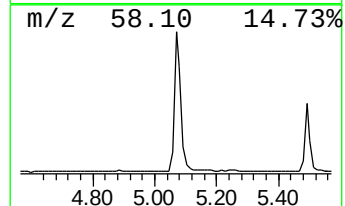
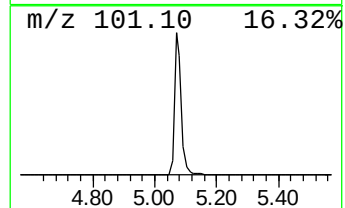
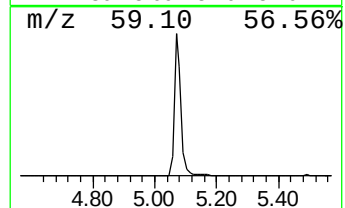
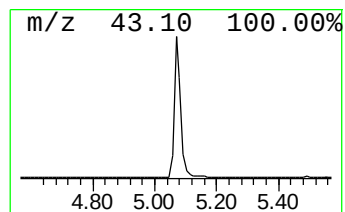
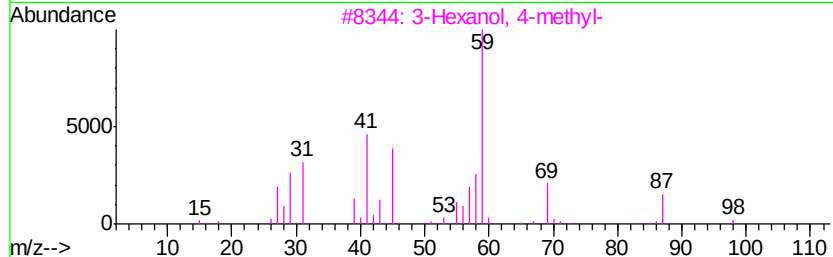
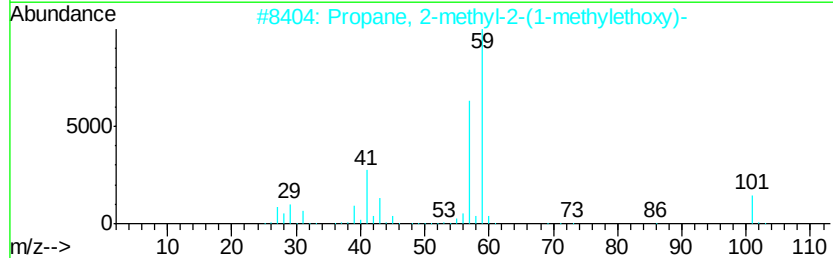
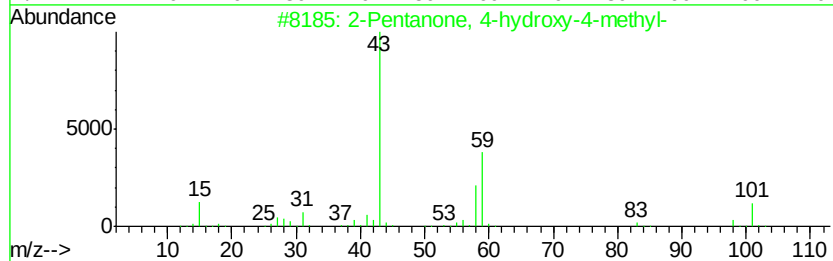
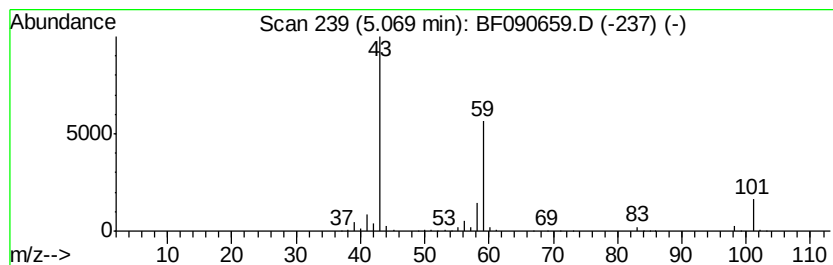
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.07 | 16.55 ng | 1127740 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 53   |
| 2    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 42   |
| 3    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 5    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |



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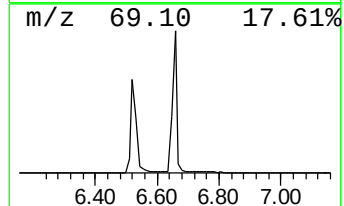
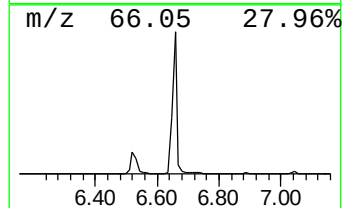
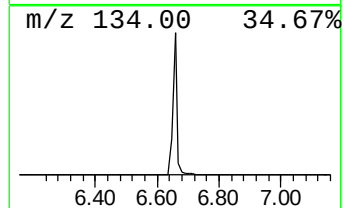
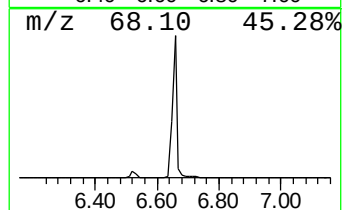
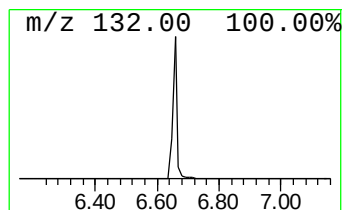
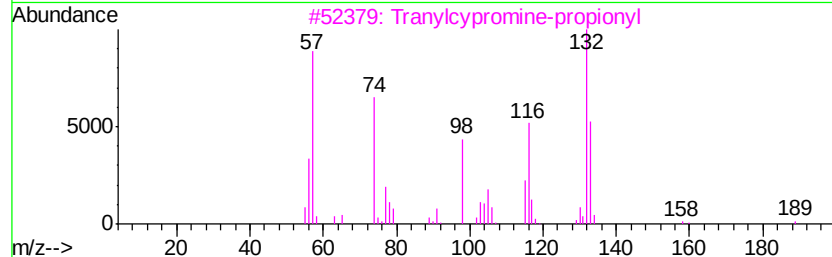
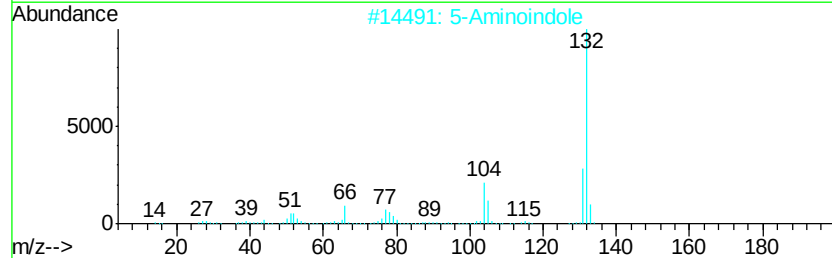
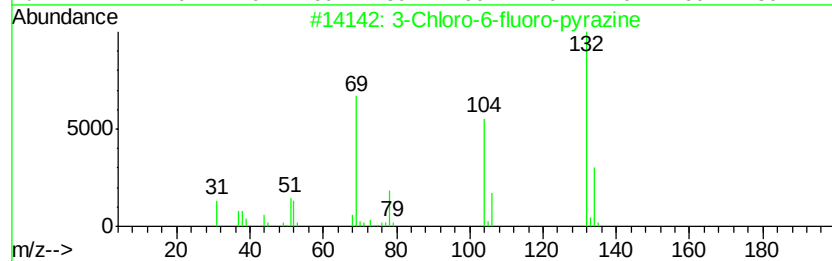
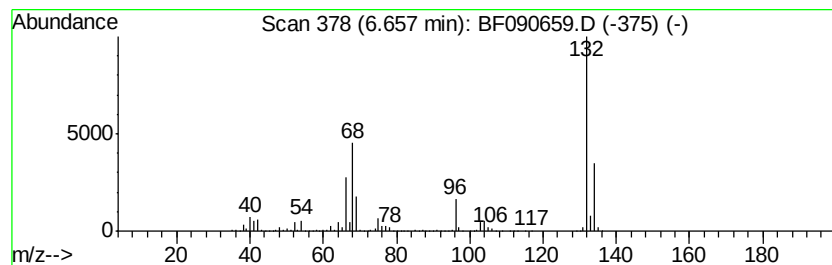
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 73.41 ng | 5001610 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm   | CAS#         | Qual |
|------|----|---|------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    |   | 5-Aminoindole                | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | Tranvlcyproline-propionyl    | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | 5-Fluoro-2-chloropyrimidine  | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    |   | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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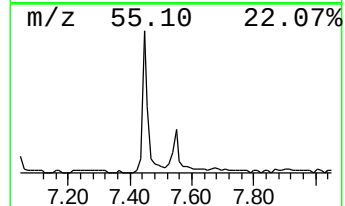
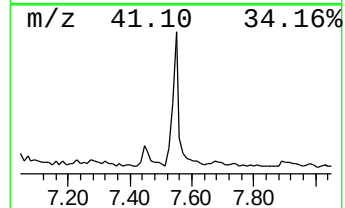
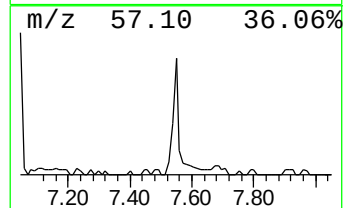
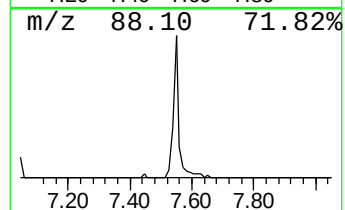
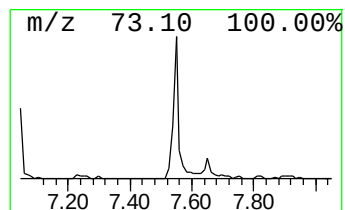
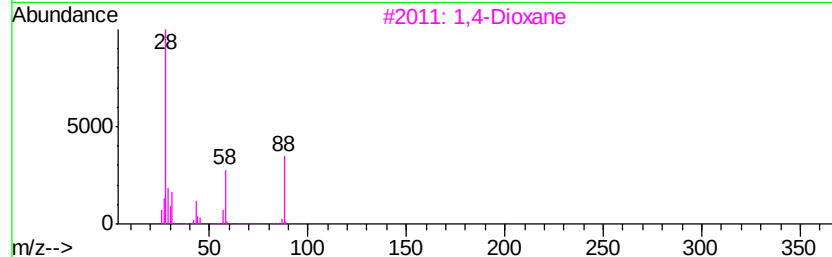
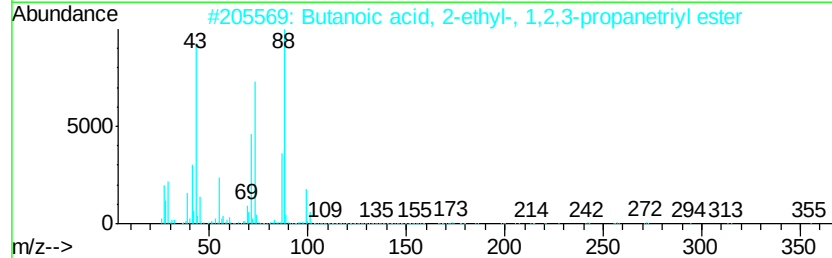
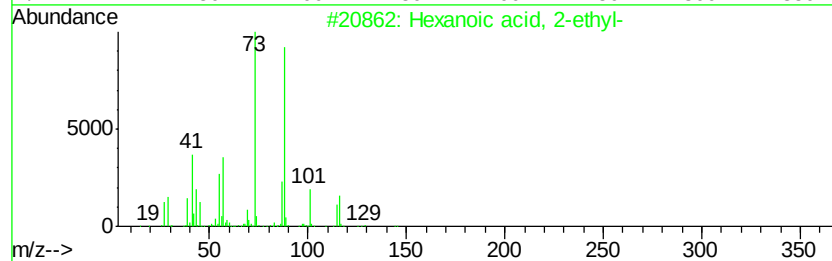
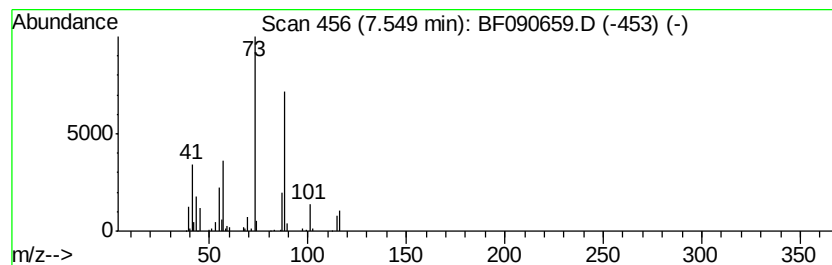
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 7.55 | 2.51 ng | 226719 | Naphthalene-d8   | 8.18 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexanoic acid, 2-ethyl-             | 144 | C8H16O2  | 000149-57-5 | 78   |
| 2    |    | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2 | 47   |
| 3    |    | 1,4-Dioxane                         | 88  | C4H8O2   | 000123-91-1 | 35   |
| 4    |    | Methyl 4-O-acetyl-2,3-di-O-methy... | 248 | C11H20O6 | 072945-56-3 | 28   |
| 5    |    | Methyl 2,3,4-tri-O-methyl-6-deox... | 220 | C10H20O5 | 072983-16-5 | 25   |



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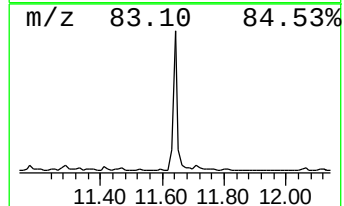
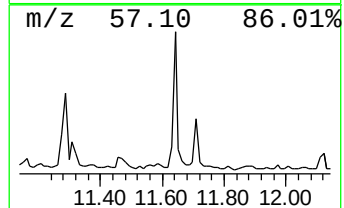
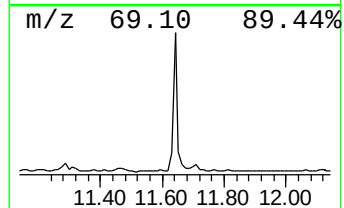
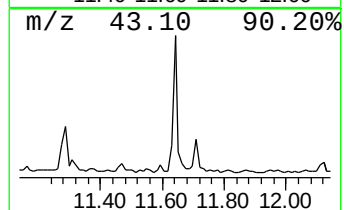
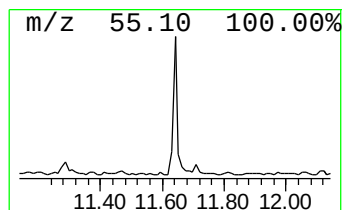
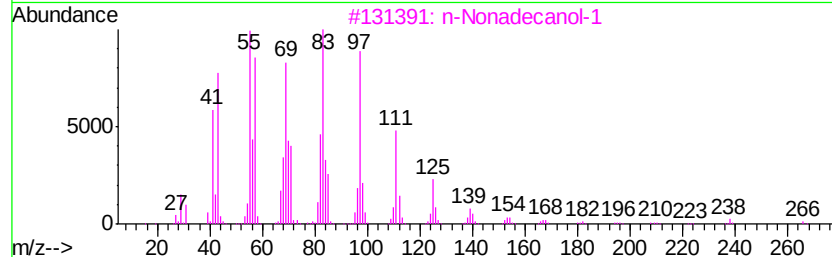
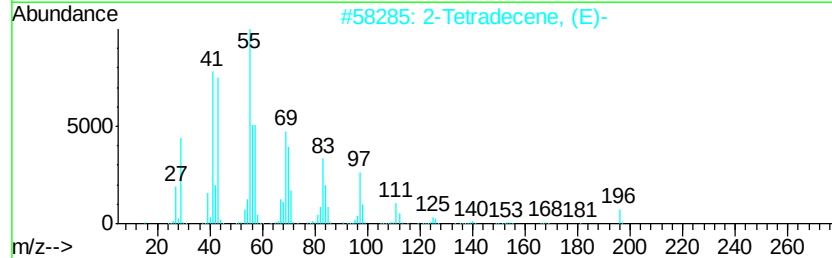
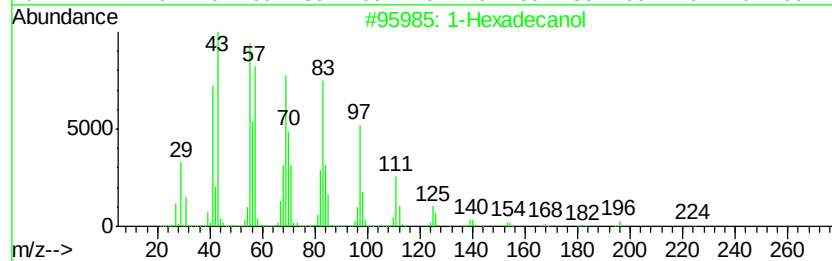
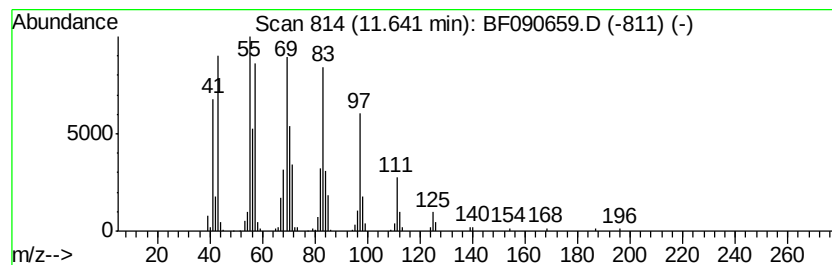
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Peak Number 5 1-Hexadecanol Concentration Rank 6

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.64     | 3.55 ng             | 308022 | Phenanthrene-d10 |             | 11.41 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1-Hexadecanol       | 242    | C16H34O          | 036653-82-4 | 94    |
| 2         | 2-Tetradecene, (E)- | 196    | C14H28           | 035953-54-9 | 93    |
| 3         | n-Nonadecanol-1     | 284    | C19H40O          | 001454-84-8 | 91    |
| 4         | Cyclotetradecane    | 196    | C14H28           | 000295-17-0 | 91    |
| 5         | n-Heptadecanol-1    | 256    | C17H36O          | 001454-85-9 | 91    |



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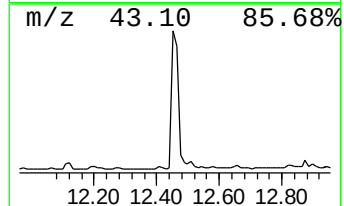
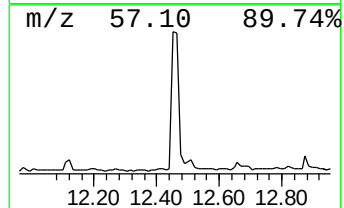
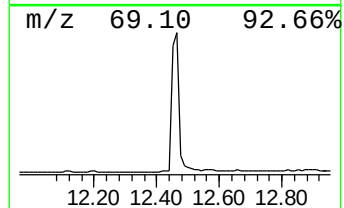
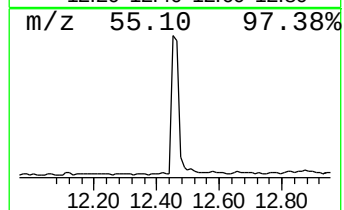
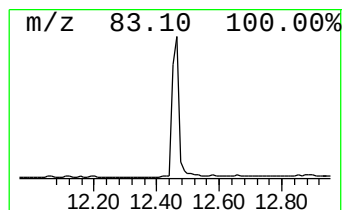
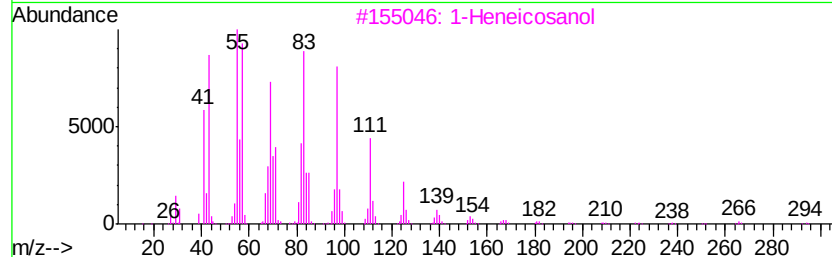
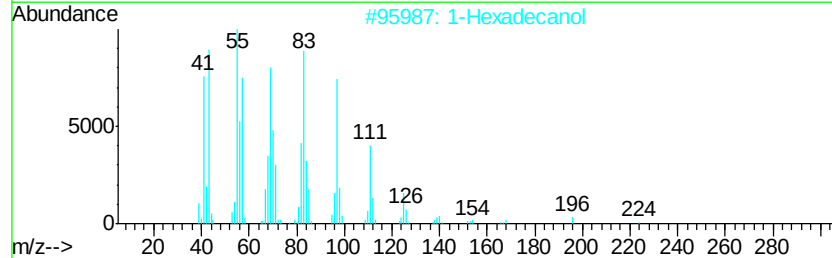
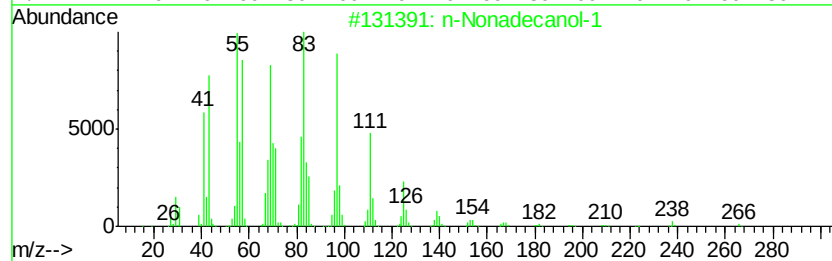
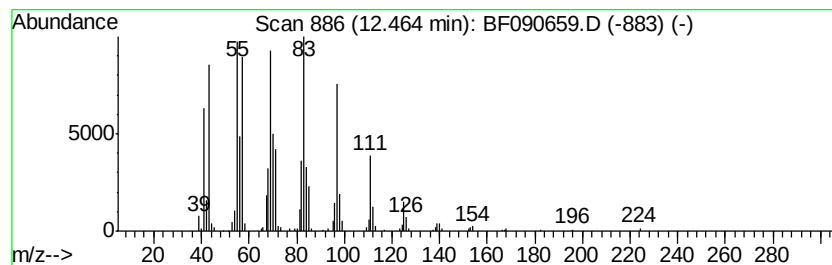
Instrument :  
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101816-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 n-Nonadecanol-1 Concentration Rank 4

| R.T.      | EstConc            | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------|--------|------------------|-------------|-------|
| 12.46     | 8.42 ng            | 730006 | Phenanthrene-d10 |             | 11.41 |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Nonadecanol-1    | 284    | C19H40O          | 001454-84-8 | 94    |
| 2         | 1-Hexadecanol      | 242    | C16H34O          | 036653-82-4 | 93    |
| 3         | 1-Heneicosanol     | 312    | C21H44O          | 015594-90-8 | 91    |
| 4         | 1-Nonadecene       | 266    | C19H38           | 018435-45-5 | 91    |
| 5         | 5-Octadecene, (E)- | 252    | C18H36           | 007206-21-5 | 91    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101916\  
Data File : BF090659.D  
Acq On : 19 Oct 2016 20:32  
Operator : UM/SJ  
Sample : H5317-03  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

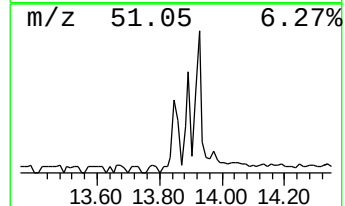
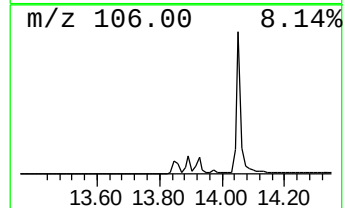
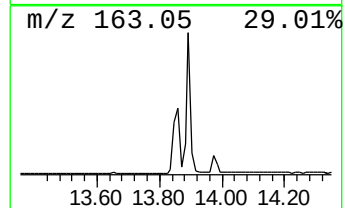
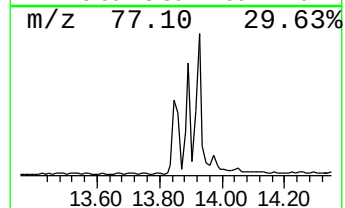
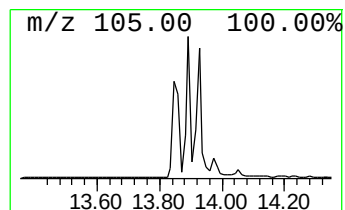
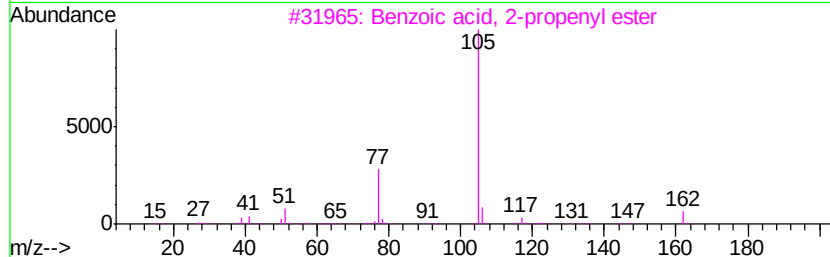
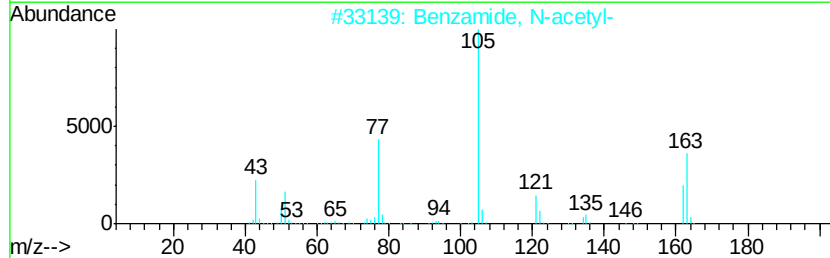
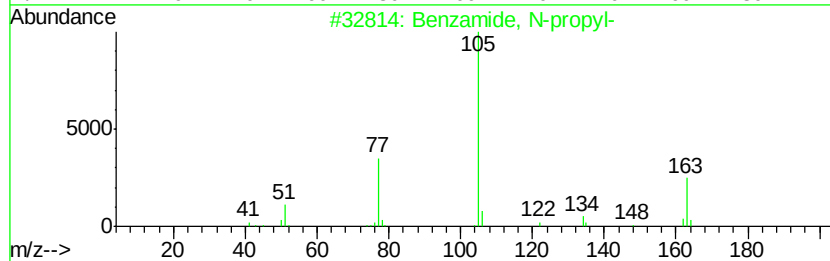
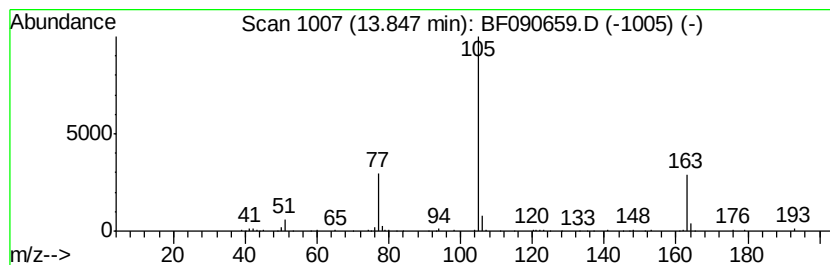
Instrument :  
BNA\_F  
ClientSampleId :  
101816-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Benzamide, N-propyl- Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.85     | 2.17 ng                             | 150151 | Chrysene-d12     | 14.05       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzamide, N-propyl-                | 163    | C10H13NO         | 010546-70-0 | 72   |
| 2         | Benzamide, N-acetyl-                | 163    | C9H9NO2          | 001575-95-7 | 53   |
| 3         | Benzoic acid, 2-propenyl ester      | 162    | C10H10O2         | 000583-04-0 | 47   |
| 4         | Isopropyl phenyl ketone             | 148    | C10H12O          | 000611-70-1 | 47   |
| 5         | 3-(Benzoylthio)-2-methylpropanoi... | 224    | C11H12O3S        | 067714-34-5 | 47   |





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Sample : H5317-03  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

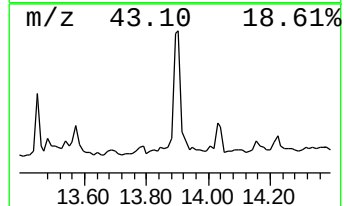
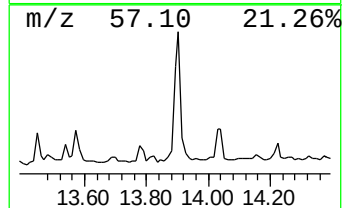
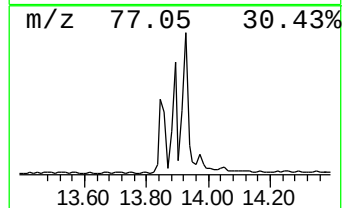
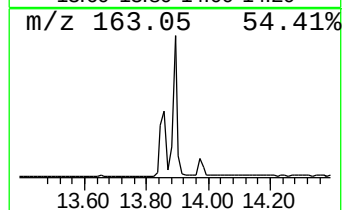
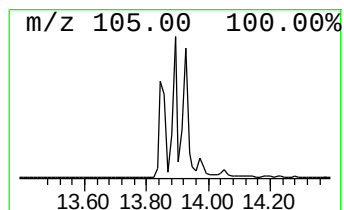
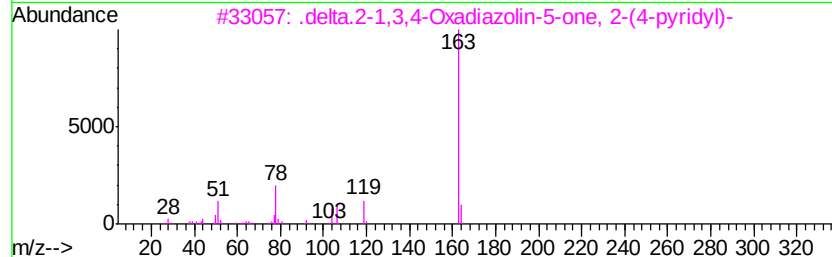
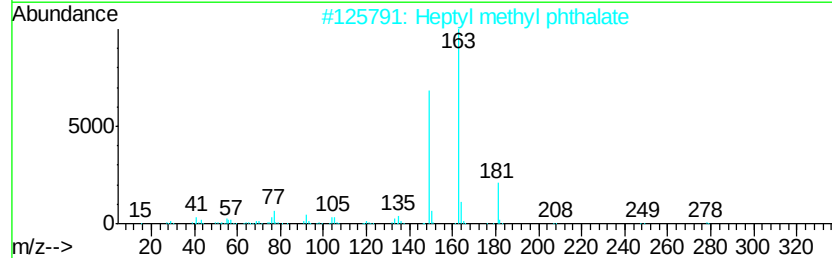
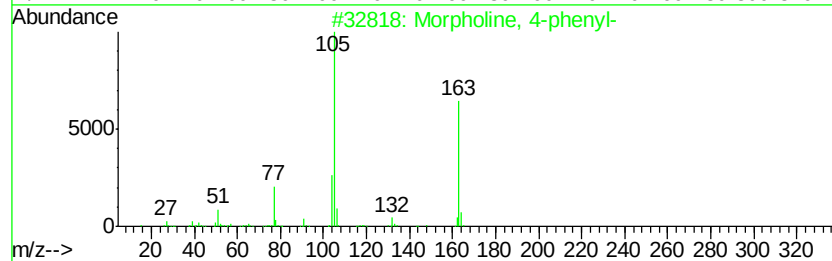
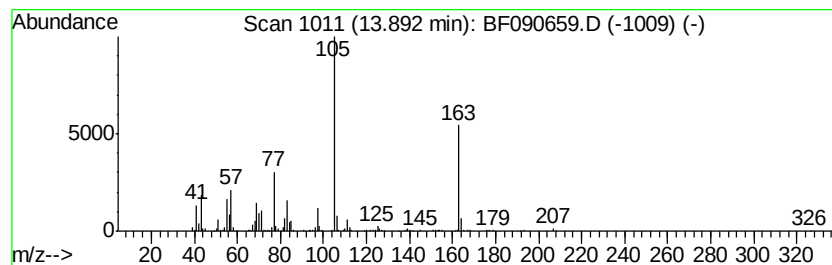
Instrument :  
BNA\_F  
ClientSampleId :  
101816-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 unknown13.89 Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.89     | 7.25 ng                             | 500964 | Chrysene-d12     | 14.05        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Morpholine, 4-phenyl-               | 163    | C10H13NO         | 000092-53-5  | 47   |
| 2         | Heptyl methyl phthalate             | 278    | C16H22O4         | 1000373-88-4 | 37   |
| 3         | .delta.2-1,3,4-Oxadiazolin-5-one... | 163    | C7H5N3O2         | 002845-82-1  | 27   |
| 4         | 1,3-Benzenediol, monobenzoate       | 214    | C13H10O3         | 000136-36-7  | 22   |
| 5         | Ethanone, 2-bromo-1,2-diphenyl-     | 274    | C14H11BrO        | 001484-50-0  | 22   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
101816-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

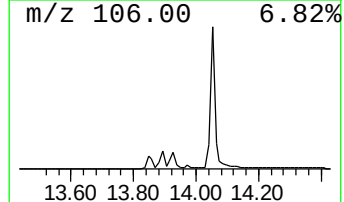
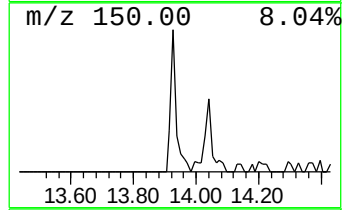
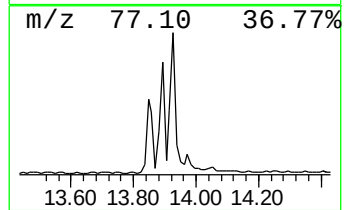
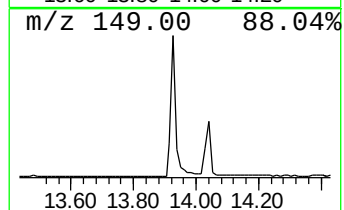
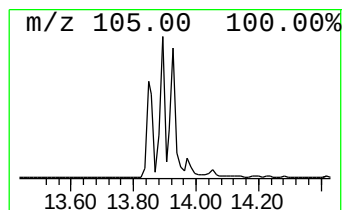
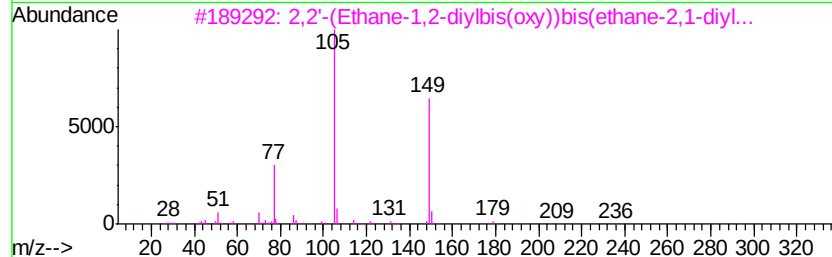
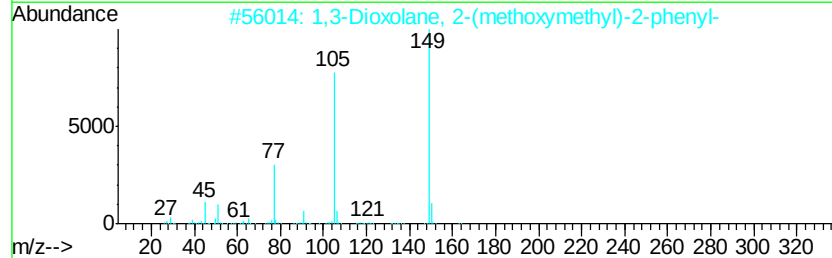
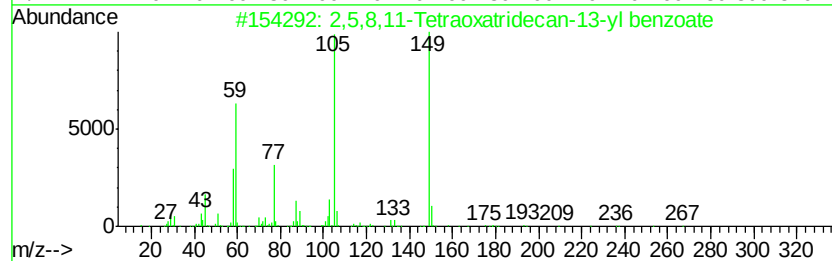
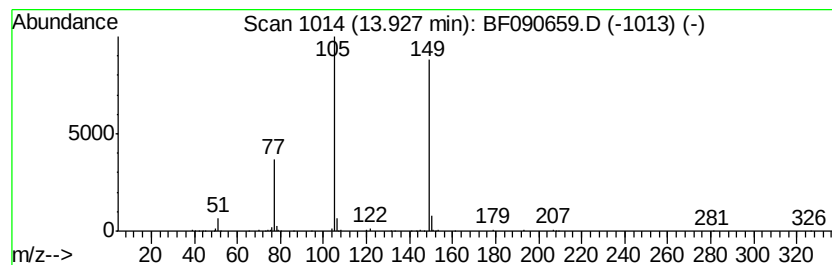
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 2,5,8,11-Tetraoxatridecan-1... Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.93 | 2.49 ng | 172234 | Chrysene-d12     | 14.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2,5,8,11-Tetraoxatridecan-13-yl ... | 312 | C16H24O6   | 1000366-96-7 | 78   |
| 2    |    | 1,3-Dioxolane, 2-(methoxymethyl)... | 194 | C11H14O3   | 1000156-71-2 | 74   |
| 3    |    | 2,2'-(Ethane-1,2-diylbis(oxv))bi... | 358 | C20H22O6   | 1000366-99-4 | 74   |
| 4    |    | 2-Bromomethyl-2-phenyl[1,3]dioxo... | 242 | C10H11BrO2 | 003418-21-1  | 64   |
| 5    |    | Benzoic acid, 2-(2-chlorophenoxy... | 276 | C15H13ClO3 | 1000368-25-9 | 64   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
101816-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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-Pentanone, 4-hy... | 5.07  | 16.6    | ng    | 1127740  | 1                     | 6.89  | 1362670 | 20.0 |
| unknown6.66          | 6.66  | 73.4    | ng    | 5001610  | 1                     | 6.89  | 1362670 | 20.0 |
| Hexanoic acid, 2-... | 7.55  | 2.5     | ng    | 226719   | 2                     | 8.18  | 1803740 | 20.0 |
| 1-Hexadecanol        | 11.64 | 3.5     | ng    | 308022   | 4                     | 11.41 | 1734650 | 20.0 |
| n-Nonadecanol-1      | 12.46 | 8.4     | ng    | 730006   | 4                     | 11.41 | 1734650 | 20.0 |
| Benzamide, N-propyl- | 13.85 | 2.2     | ng    | 150151   | 5                     | 14.05 | 1382640 | 20.0 |
| unknown13.89         | 13.89 | 7.3     | ng    | 500964   | 5                     | 14.05 | 1382640 | 20.0 |
| 2,5,8,11-Tetraoxa... | 13.93 | 2.5     | ng    | 172234   | 5                     | 14.05 | 1382640 | 20.0 |