

Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
 Data File : BF098632.D  
 Acq On : 19 Sep 2017 5:58  
 Operator : SJ/JU  
 Sample : I5265-08  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-25D46

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-BF091117.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         | 4.816       | 461           | 464         | 479          | rBV      | 224713         | 348465        | 11.29%          | 1.293%        |
| 2         | 5.245       | 533           | 537         | 555          | rBV      | 2684782        | 2872432       | 93.09%          | 10.657%       |
| 3         | 6.292       | 710           | 715         | 726          | rBV      | 2962213        | 3061092       | 99.20%          | 11.357%       |
| 4         | 6.410       | 731           | 735         | 738          | rBV      | 3515296        | 3085749       | 100.00%         | 11.448%       |
| 5         | 6.633       | 770           | 773         | 780          | rVB      | 899742         | 723206        | 23.44%          | 2.683%        |
| 6         | 6.786       | 795           | 799         | 808          | rBV      | 1905628        | 1813697       | 58.78%          | 6.729%        |
| 7         | 7.204       | 866           | 870         | 873          | rBV      | 1745962        | 1689873       | 54.76%          | 6.269%        |
| 8         | 7.916       | 987           | 991         | 998          | rBV      | 1137954        | 1007049       | 32.64%          | 3.736%        |
| 9         | 8.992       | 1170          | 1174        | 1177         | rBV      | 2734576        | 2221602       | 72.00%          | 8.242%        |
| 10        | 9.392       | 1238          | 1242        | 1246         | rBV      | 498692         | 380361        | 12.33%          | 1.411%        |
| 11        | 9.669       | 1285          | 1289        | 1294         | rVB      | 1122030        | 964702        | 31.26%          | 3.579%        |
| 12        | 10.457      | 1419          | 1423        | 1433         | rBV      | 1620431        | 1473862       | 47.76%          | 5.468%        |
| 13        | 10.574      | 1440          | 1443        | 1449         | rBV      | 56306          | 67883         | 2.20%           | 0.252%        |
| 14        | 11.021      | 1516          | 1519        | 1521         | rBV      | 43118          | 37425         | 1.21%           | 0.139%        |
| 15        | 11.151      | 1537          | 1541        | 1545         | rBV      | 1087393        | 943624        | 30.58%          | 3.501%        |
| 16        | 12.239      | 1722          | 1726        | 1730         | rVB      | 246609         | 199642        | 6.47%           | 0.741%        |
| 17        | 12.557      | 1776          | 1780        | 1783         | rBV      | 116289         | 91581         | 2.97%           | 0.340%        |
| 18        | 12.733      | 1805          | 1810        | 1813         | rBV      | 2004324        | 1825754       | 59.17%          | 6.774%        |
| 19        | 12.962      | 1847          | 1849        | 1853         | rVB      | 146971         | 128632        | 4.17%           | 0.477%        |
| 20        | 13.262      | 1897          | 1900        | 1903         | rVB      | 63811          | 58830         | 1.91%           | 0.218%        |
| 21        | 13.304      | 1903          | 1907        | 1909         | rBV2     | 45653          | 47725         | 1.55%           | 0.177%        |
| 22        | 13.421      | 1924          | 1927        | 1933         | rBV      | 125251         | 108403        | 3.51%           | 0.402%        |
| 23        | 13.627      | 1959          | 1962        | 1968         | rBV      | 294391         | 344646        | 11.17%          | 1.279%        |
| 24        | 13.680      | 1968          | 1971        | 1976         | rVB      | 80452          | 71716         | 2.32%           | 0.266%        |
| 25        | 13.780      | 1985          | 1988        | 1993         | rVB      | 763162         | 731166        | 23.69%          | 2.713%        |
| 26        | 13.874      | 2000          | 2004        | 2007         | rBV      | 41565          | 49621         | 1.61%           | 0.184%        |
| 27        | 13.945      | 2014          | 2016        | 2023         | rVB      | 40408          | 51453         | 1.67%           | 0.191%        |
| 28        | 14.074      | 2034          | 2038        | 2041         | rBV2     | 49250          | 50506         | 1.64%           | 0.187%        |
| 29        | 14.262      | 2064          | 2070        | 2075         | rBV2     | 202830         | 308383        | 9.99%           | 1.144%        |
| 30        | 14.309      | 2075          | 2078        | 2081         | rVB      | 49038          | 44829         | 1.45%           | 0.166%        |
| 31        | 14.545      | 2111          | 2118        | 2120         | rBV4     | 44485          | 85106         | 2.76%           | 0.316%        |
| 32        | 14.851      | 2166          | 2170        | 2172         | rBV      | 91684          | 101678        | 3.30%           | 0.377%        |
| 33        | 14.874      | 2172          | 2174        | 2180         | rVV      | 134921         | 190080        | 6.16%           | 0.705%        |
| 34        | 14.921      | 2180          | 2182        | 2187         | rVB      | 34348          | 39010         | 1.26%           | 0.145%        |

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Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-25D46

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-BF091117.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 15.180 | 2221 | 2226 | 2235 | rBV  | 642517 | 782920 | 25.37% | 2.905% |
| 36 | 15.374 | 2254 | 2259 | 2262 | rBV5 | 30455  | 44440  | 1.44%  | 0.165% |
| 37 | 15.574 | 2289 | 2293 | 2298 | rBV2 | 64868  | 94379  | 3.06%  | 0.350% |
| 38 | 15.633 | 2298 | 2303 | 2308 | rVV2 | 65615  | 115850 | 3.75%  | 0.430% |
| 39 | 16.539 | 2454 | 2457 | 2464 | rVB6 | 26898  | 48980  | 1.59%  | 0.182% |
| 40 | 17.045 | 2537 | 2543 | 2551 | rVB7 | 100601 | 211172 | 6.84%  | 0.783% |
| 41 | 17.162 | 2559 | 2563 | 2570 | rVB8 | 35835  | 71992  | 2.33%  | 0.267% |
| 42 | 17.468 | 2608 | 2615 | 2625 | rVB4 | 160656 | 364421 | 11.81% | 1.352% |

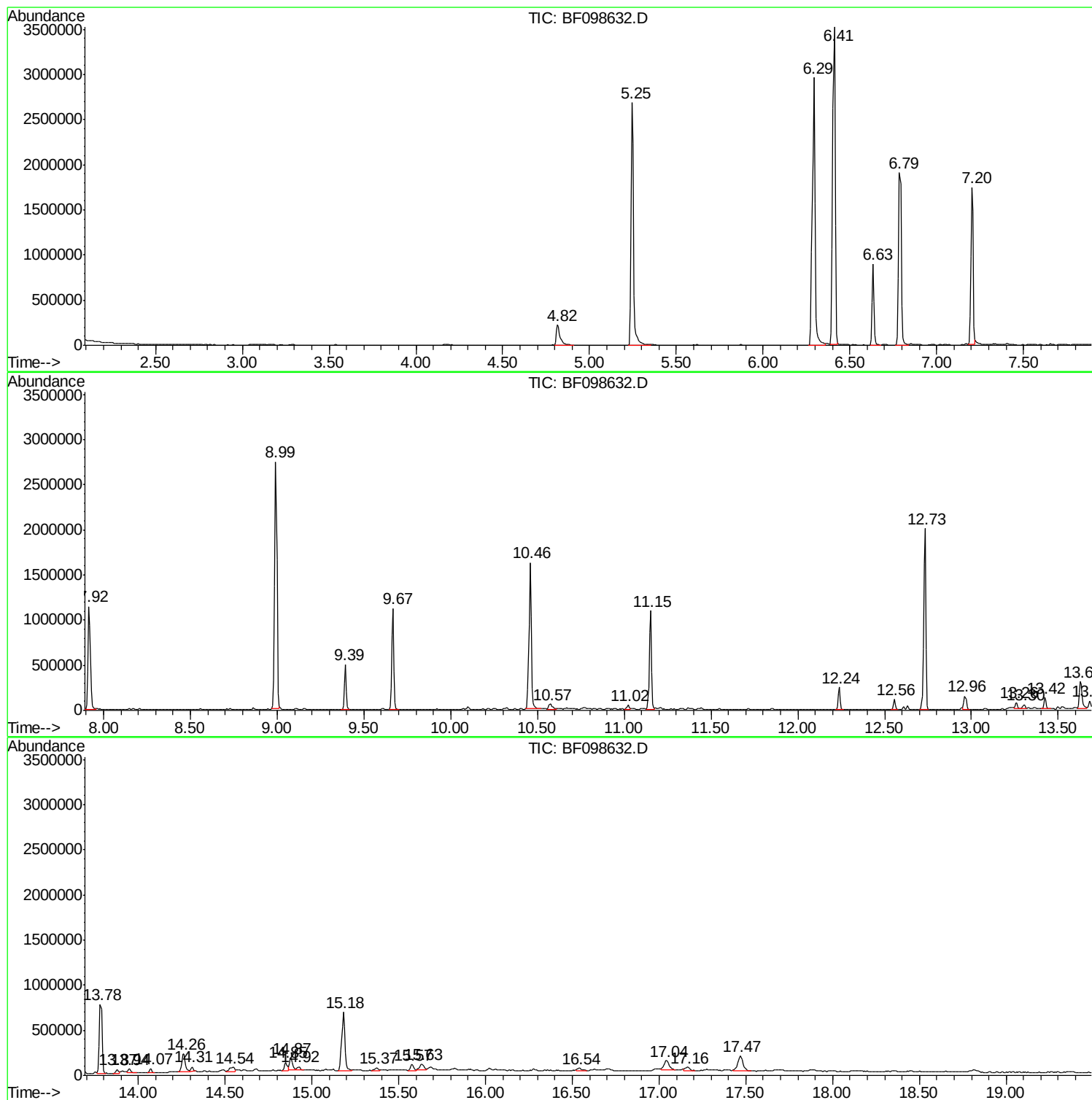
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
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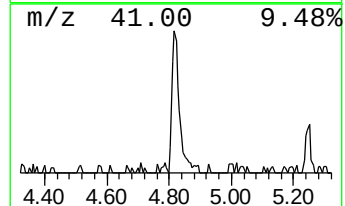
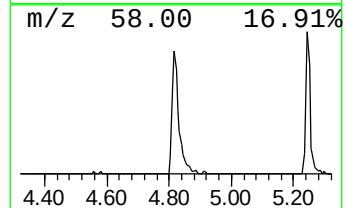
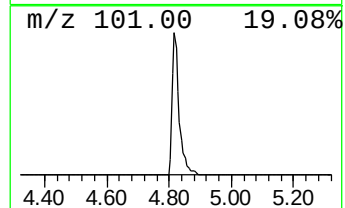
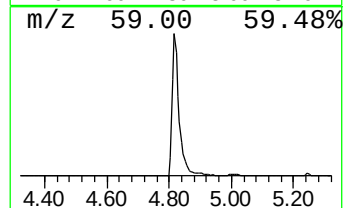
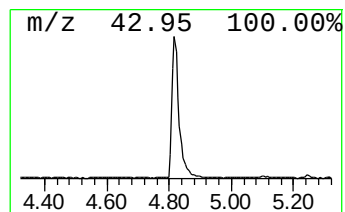
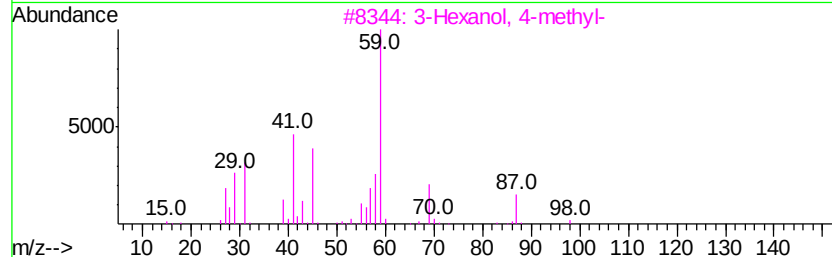
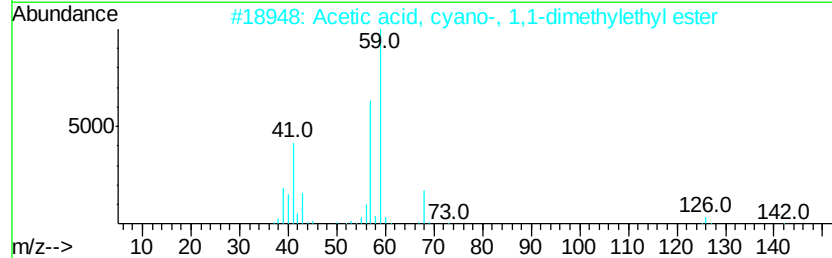
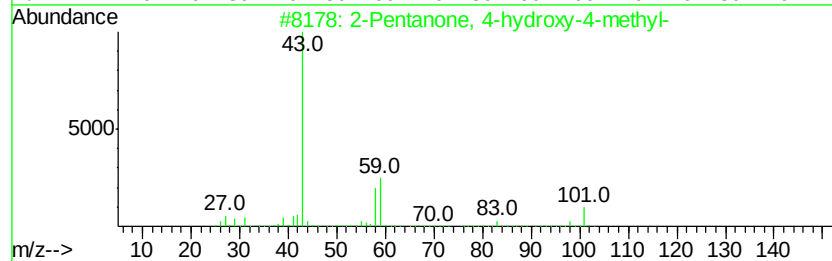
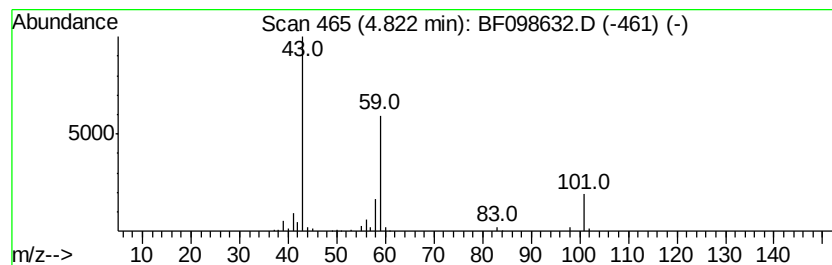
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|---------|--------|------------------------|------|
| 4.82 | 9.64 ng | 348465 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# of 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|-----------|--------------------------------------|-----|----------|-------------|------|
| 1         | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 72   |
| 2         | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 32   |
| 3         | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 28   |
| 4         | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5         | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

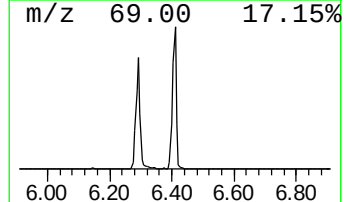
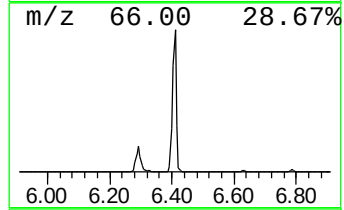
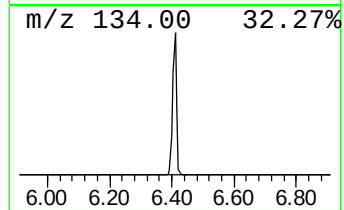
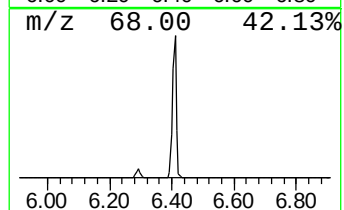
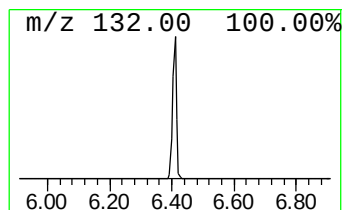
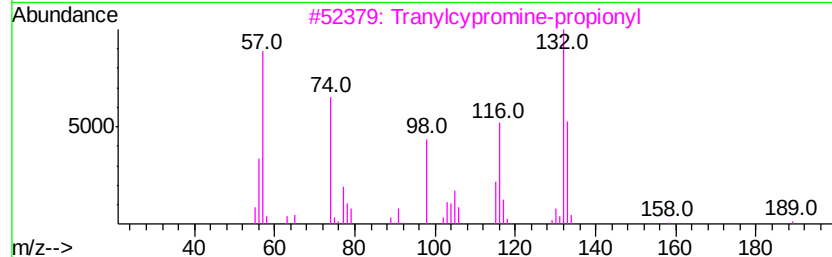
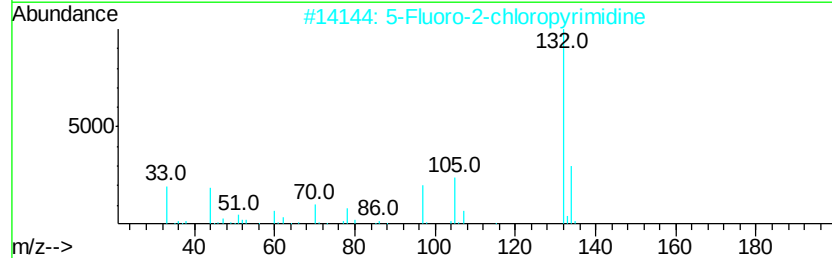
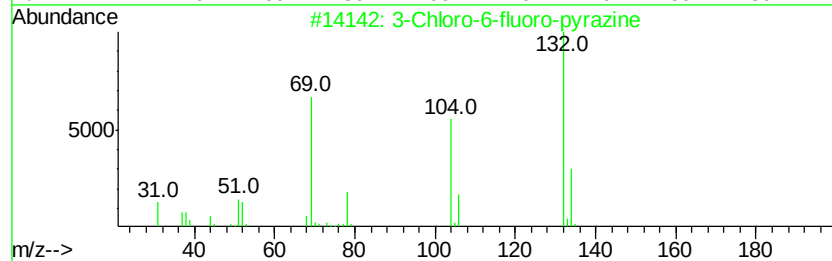
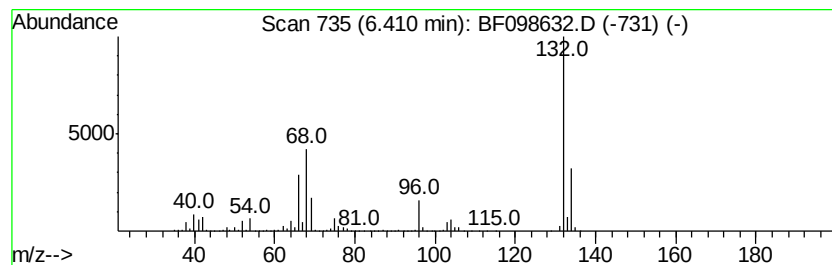
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.41 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.41 | 85.34 ng | 3085750 | 1,4-Dichlorobenzene-d4 | 6.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | 1,3,5-Trifluorobenzene              | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

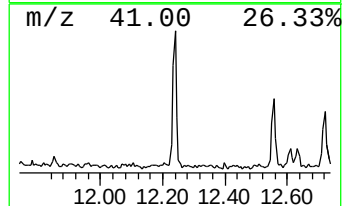
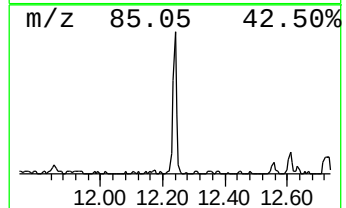
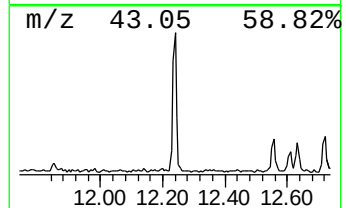
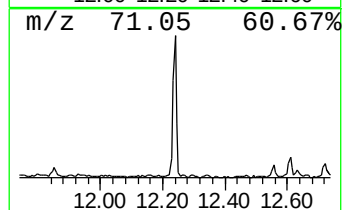
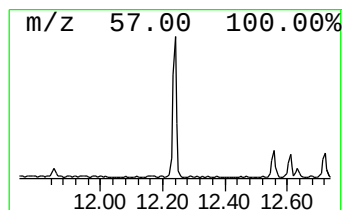
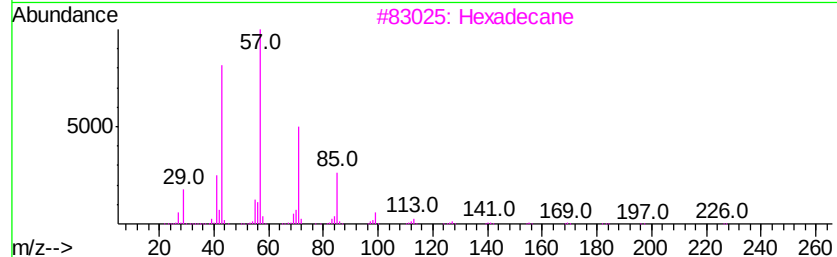
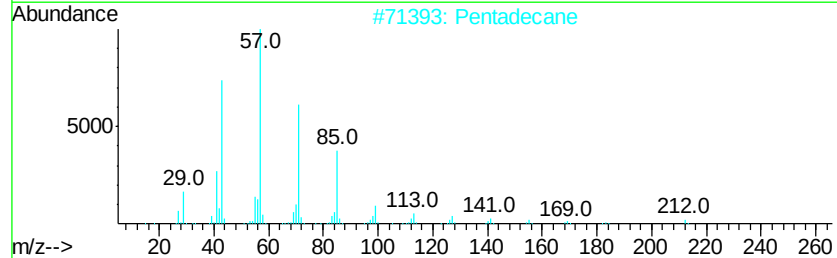
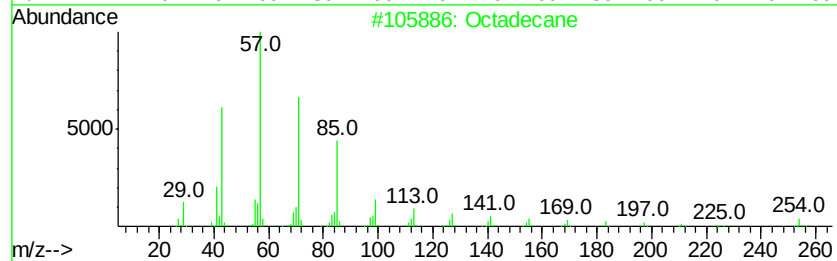
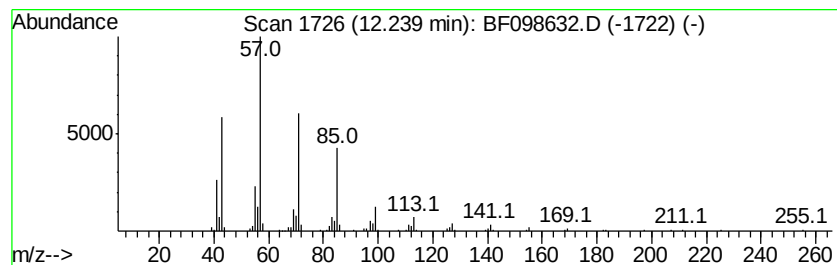
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Octadecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.24 | 4.23 ng | 199642 | Phenanthrene-d10 | 11.15 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 91   |
| 2       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 91   |
| 3       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 90   |
| 4       | Pentacosane |              | 352 | C25H52  | 000629-99-2 | 90   |
| 5       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 90   |



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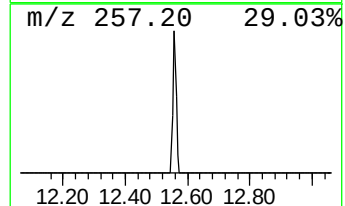
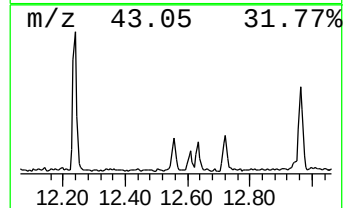
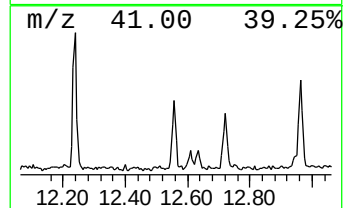
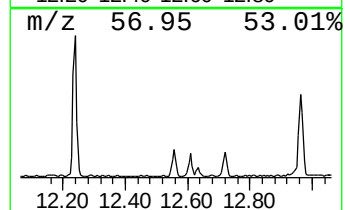
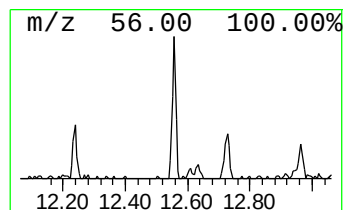
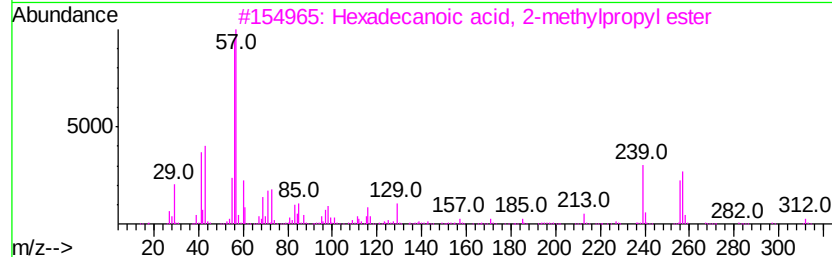
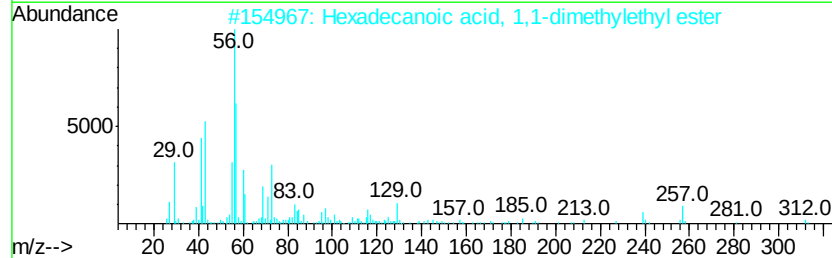
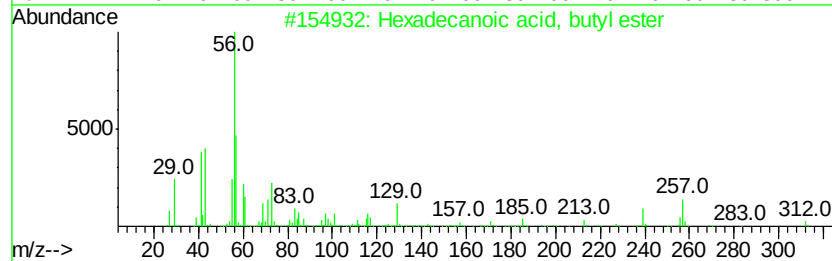
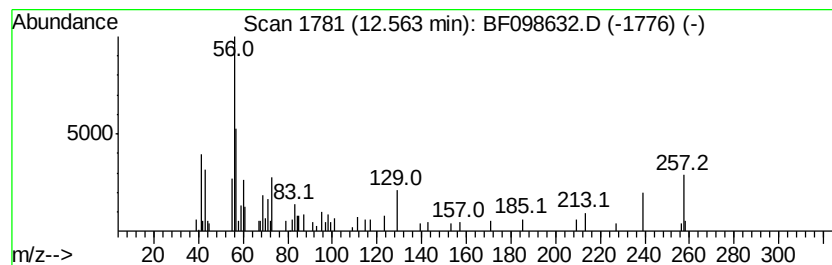
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Hexadecanoic acid, butyl ester Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.56 | 2.51 ng | 91581 | Chrysene-d12     | 13.78 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, butyl ester       | 312 | C20H40O2 | 000111-06-8 | 91   |
| 2    |    | Hexadecanoic acid, 1,1-dimethyle...  | 312 | C20H40O2 | 031158-91-5 | 83   |
| 3    |    | Hexadecanoic acid, 2-methylpropyl... | 312 | C20H40O2 | 000110-34-9 | 64   |
| 4    |    | Urea, N,N'-di-2-propenyl-            | 140 | C7H12N2O | 001801-72-5 | 35   |
| 5    |    | Cyclopentanecarboxylic acid, 2-a...  | 129 | C6H11NO2 | 040482-05-1 | 35   |



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TP-25D46

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

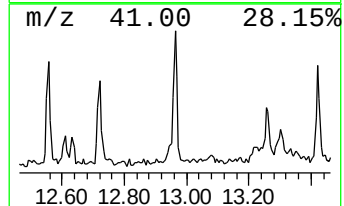
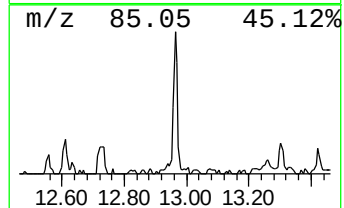
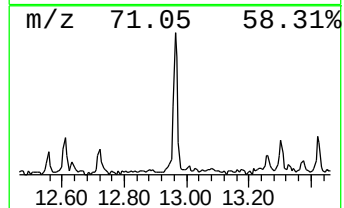
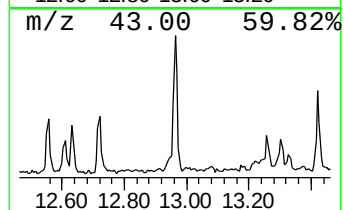
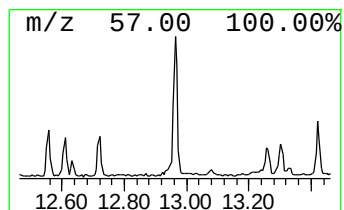
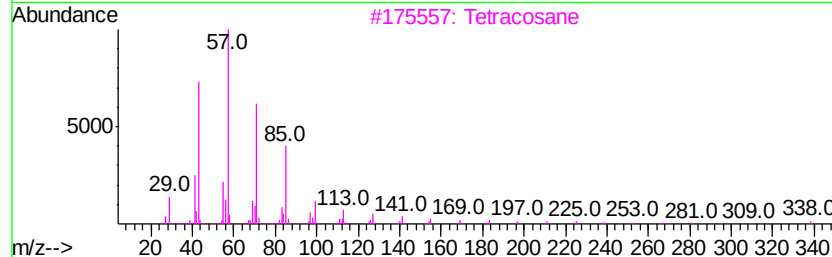
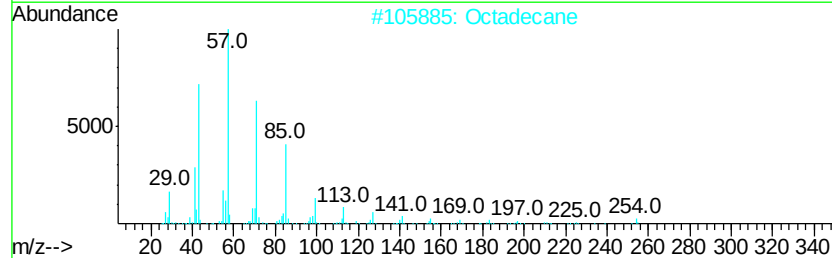
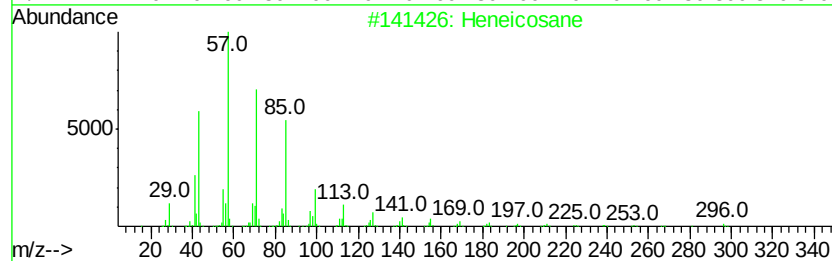
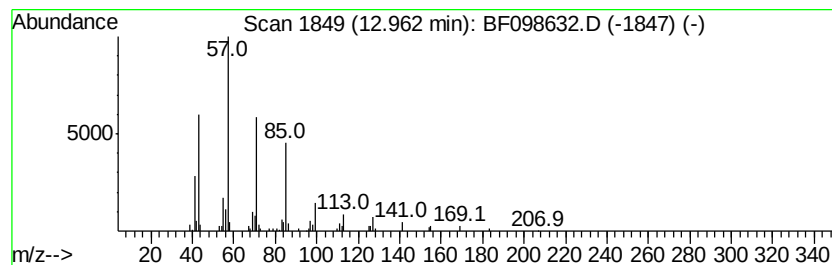
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heneicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.96 | 3.52 ng | 128632 | Chrysene-d12     | 13.78 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 90   |
| 2       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 87   |
| 3       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 87   |
| 4       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 86   |
| 5       | Docosane    |              | 310 | C22H46  | 000629-97-0 | 78   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

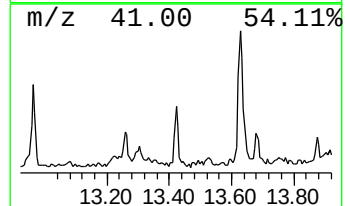
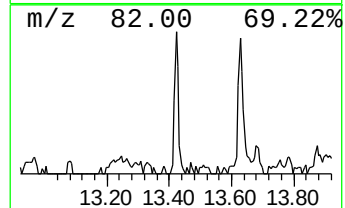
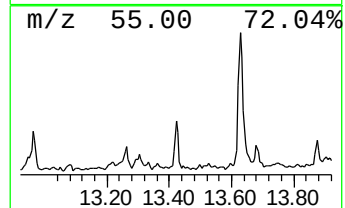
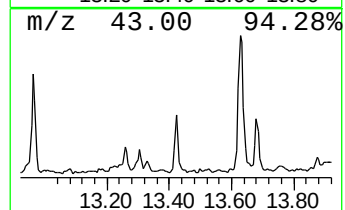
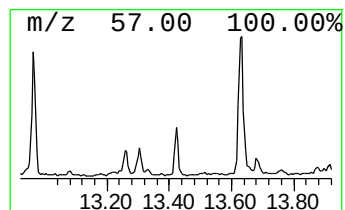
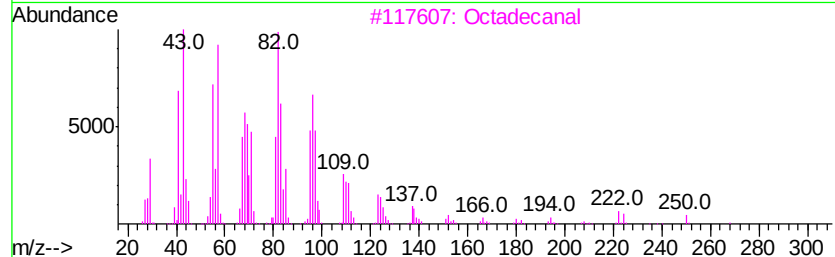
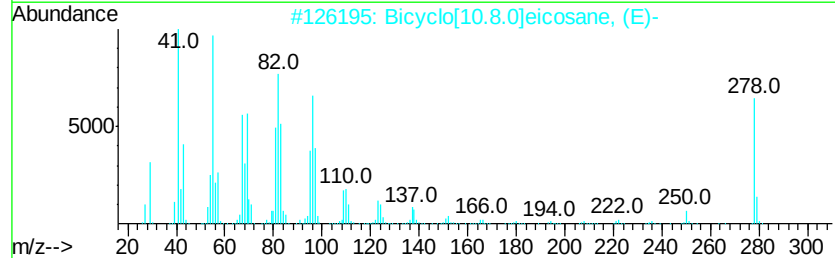
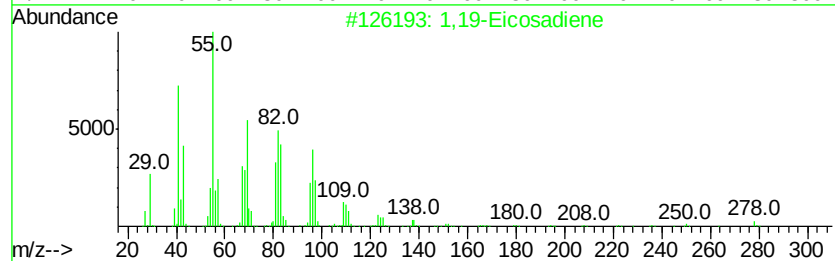
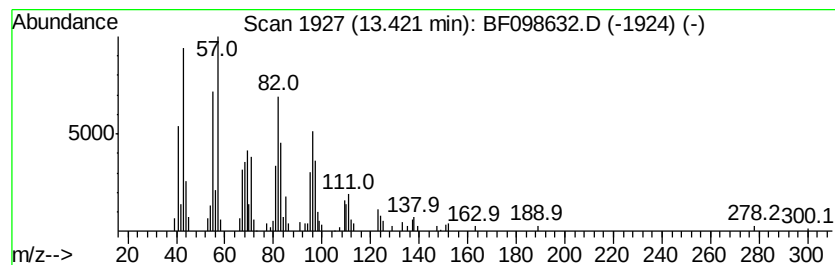
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ClientSampleId :  
TP-25D46

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.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 7 1,19-Eicosadiene Concentration Rank 11

| R.T.      | EstConc                       | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------|--------|------------------|--------------|------|
| 13.42     | 2.97 ng                       | 108403 | Chrysene-d12     | 13.78        |      |
| Hit# of 5 | Tentative ID                  | MW     | MolForm          | CAS#         | Qual |
| 1         | 1,19-Eicosadiene              | 278    | C20H38           | 014811-95-1  | 98   |
| 2         | Bicyclo[10.8.0]eicosane, (E)- | 278    | C20H38           | 1000155-85-0 | 95   |
| 3         | Octadecanal                   | 268    | C18H36O          | 000638-66-4  | 91   |
| 4         | Oxirane, heptadecyl-          | 282    | C19H38O          | 067860-04-2  | 91   |
| 5         | Heptadecanal                  | 254    | C17H34O          | 1000376-70-0 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
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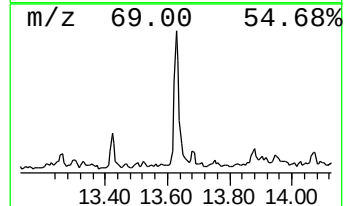
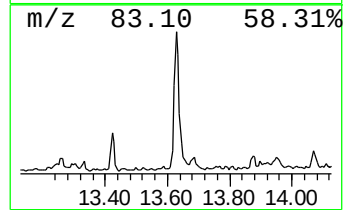
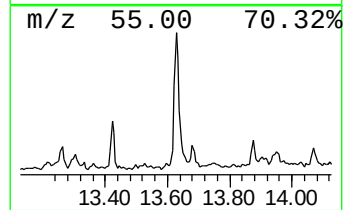
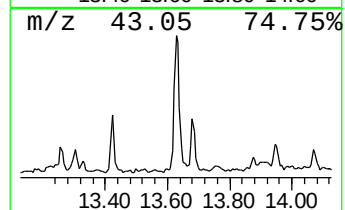
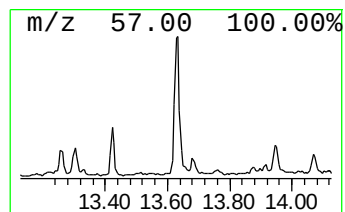
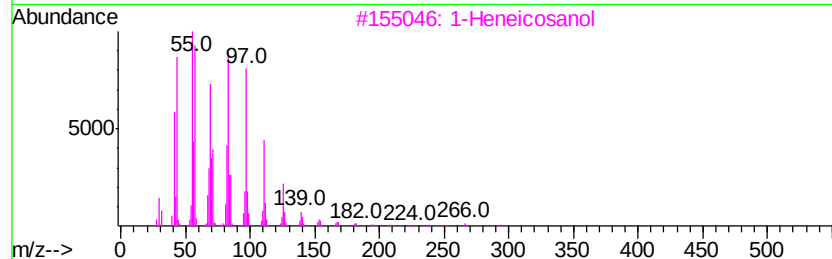
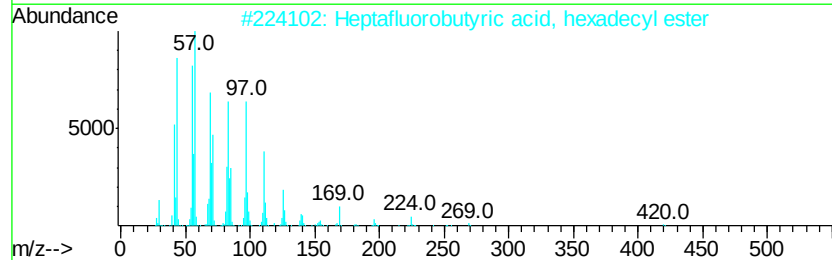
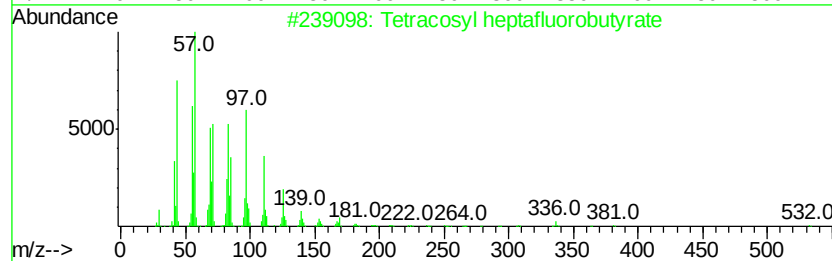
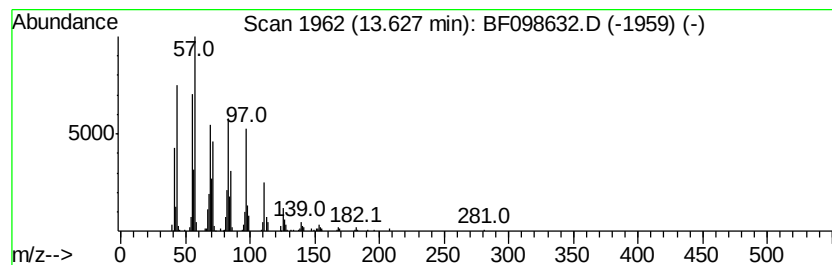
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TP-25D46

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.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 Tetracosyl heptafluorobutyrate Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.63     | 9.43 ng                             | 344646 | Chrysene-d12     | 13.78        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Tetracosyl heptafluorobutyrate      | 550    | C28H49F7O2       | 1000351-83-7 | 94   |
| 2         | Heptafluorobutyric acid, hexadec... | 438    | C20H33F7O2       | 006385-15-5  | 94   |
| 3         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8  | 93   |
| 4         | Heptadecyl trifluoroacetate         | 352    | C19H35F3O2       | 1000351-87-0 | 91   |
| 5         | Tricosyl trifluoroacetate           | 436    | C25H47F3O2       | 1000351-75-1 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

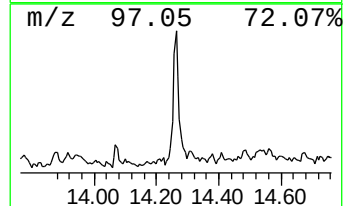
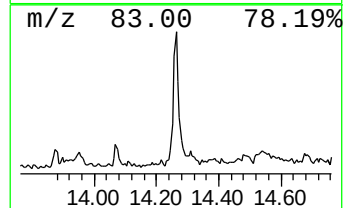
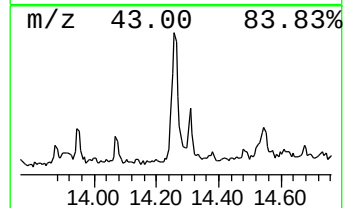
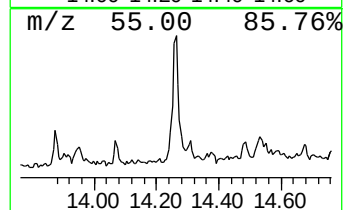
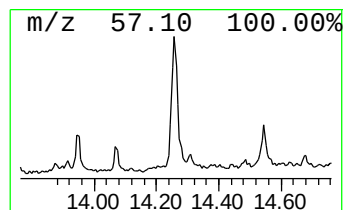
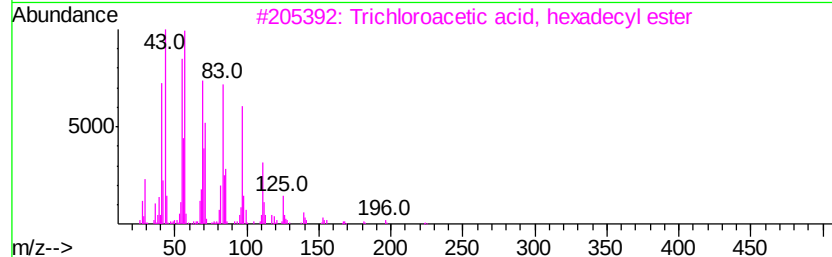
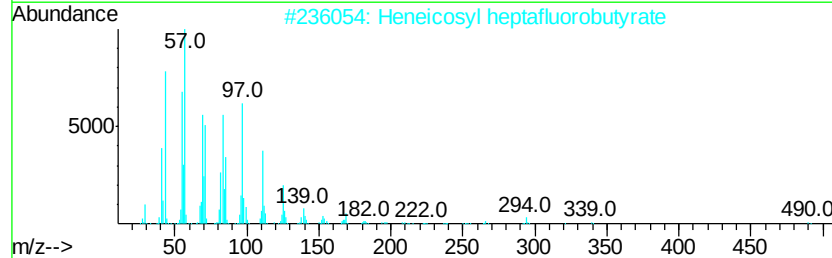
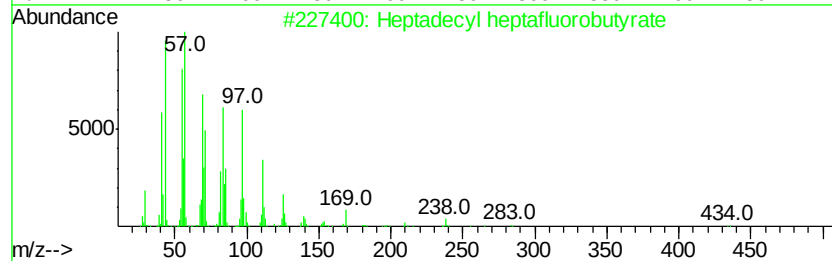
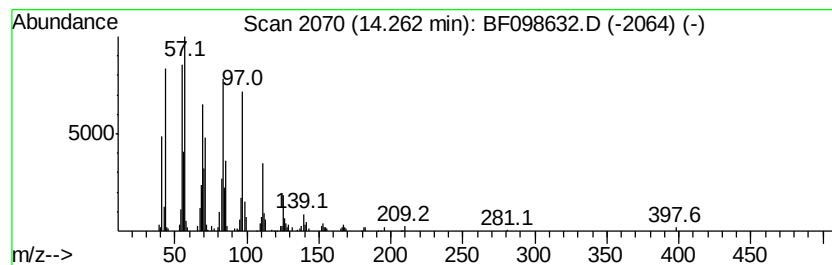
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heptadecyl heptafluorobutyrate Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.26 | 8.44 ng | 308383 | Chrysene-d12     | 13.78 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-------------|--------------|------|
| 1       |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2  | 959085-66-6  | 94   |
| 2       |   | Heneicosyl heptafluorobutyrate      | 508 | C25H43F7O2  | 1000351-83-8 | 94   |
| 3       |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 91   |
| 4       |   | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2  | 959261-23-5  | 91   |
| 5       |   | Cyclooctacosane                     | 392 | C28H56      | 000297-24-5  | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

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

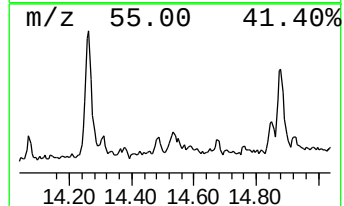
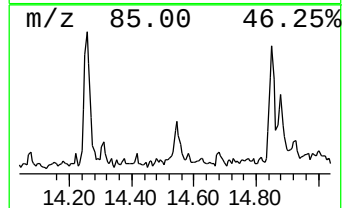
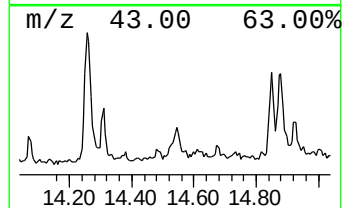
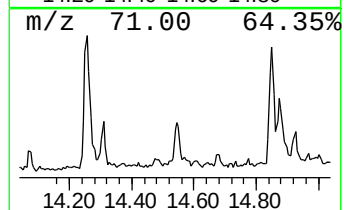
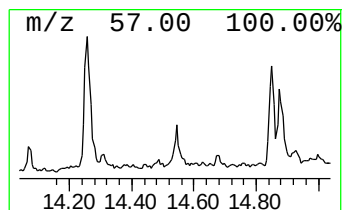
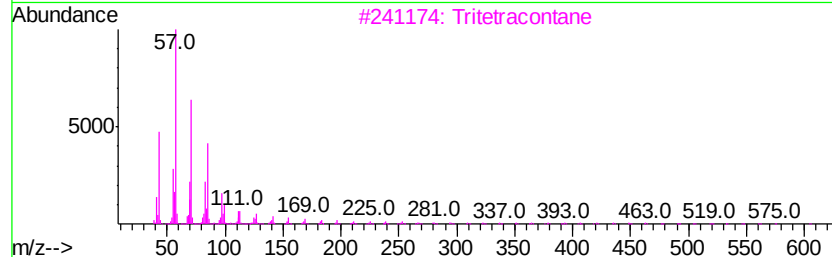
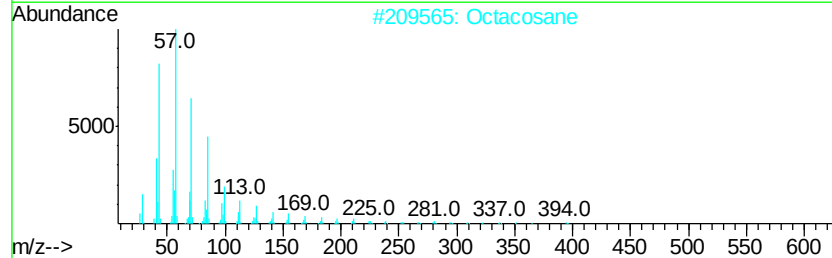
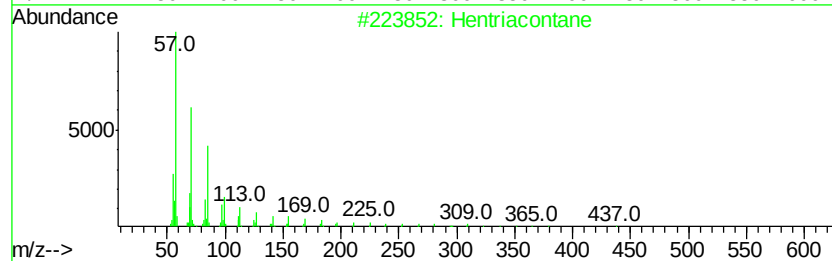
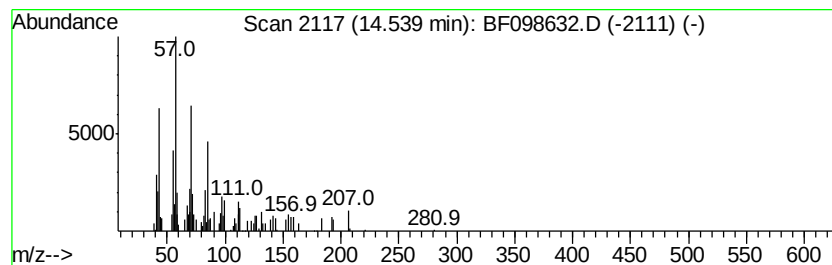
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Hentriacontane Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.54 | 2.17 ng | 85106 | Perylene-d12     | 15.18 |

| Hit# | of | Tentative ID      | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------|-----|----------|-------------|------|
| 1    | 5  | Hentriacontane    | 437 | C31H64   | 000630-04-6 | 87   |
| 2    |    | Octacosane        | 394 | C28H58   | 000630-02-4 | 86   |
| 3    |    | Tritetracontane   | 605 | C43H88   | 007098-21-7 | 78   |
| 4    |    | 1-Chloroeicosane  | 316 | C20H41Cl | 042217-02-7 | 76   |
| 5    |    | Tetrapentacontane | 759 | C54H110  | 005856-66-6 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

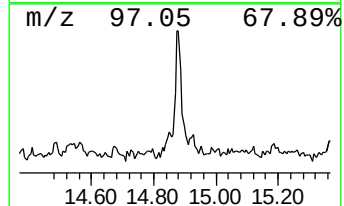
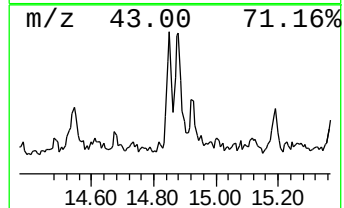
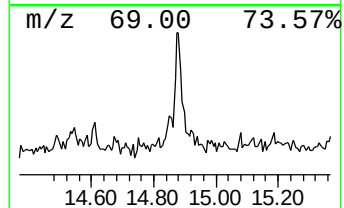
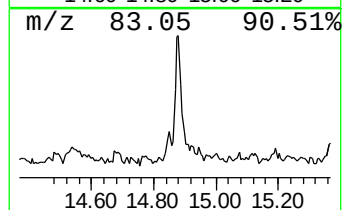
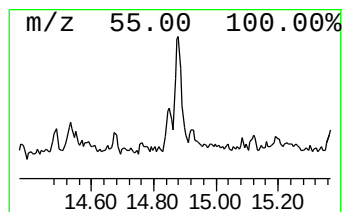
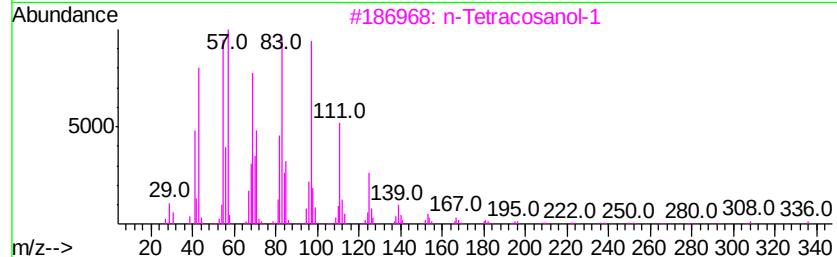
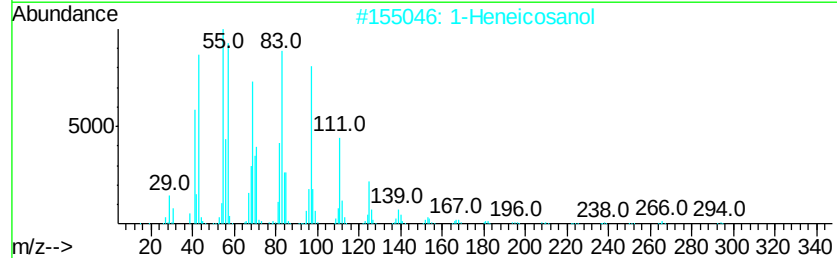
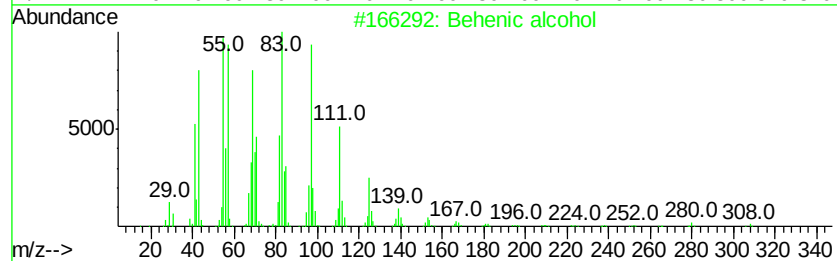
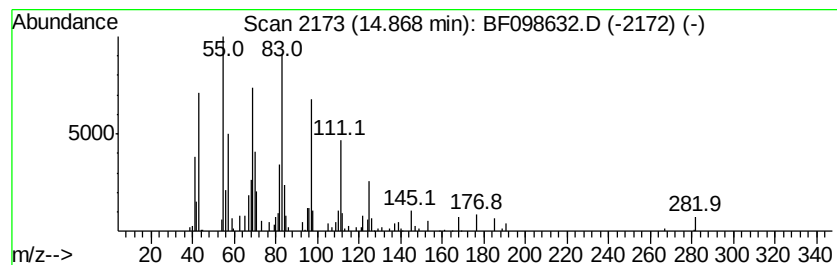
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ClientSampleId :  
TP-25D46

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.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 12 Behenic alcohol Concentration Rank 8

| R.T.      | EstConc          | Area   | Relative to ISTD |             | R.T.  |
|-----------|------------------|--------|------------------|-------------|-------|
| 14.87     | 4.86 ng          | 190080 | Perylene-d12     |             | 15.18 |
| Hit# of 5 | Tentative ID     | MW     | MolForm          | CAS#        | Qual  |
| 1         | Behenic alcohol  | 326    | C22H46O          | 000661-19-8 | 94    |
| 2         | 1-Heneicosanol   | 312    | C21H44O          | 015594-90-8 | 94    |
| 3         | n-Tetracosanol-1 | 354    | C24H50O          | 000506-51-4 | 94    |
| 4         | n-Nonadecanol-1  | 284    | C19H40O          | 001454-84-8 | 91    |
| 5         | 1-Heptacosanol   | 396    | C27H56O          | 002004-39-9 | 91    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

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

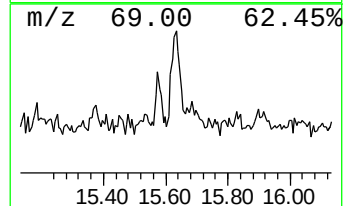
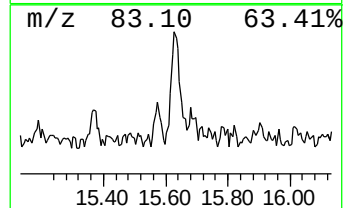
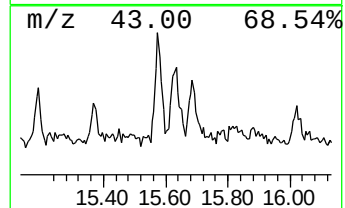
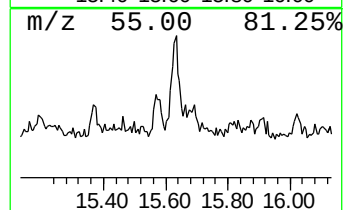
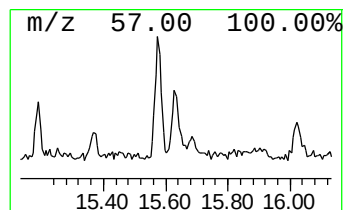
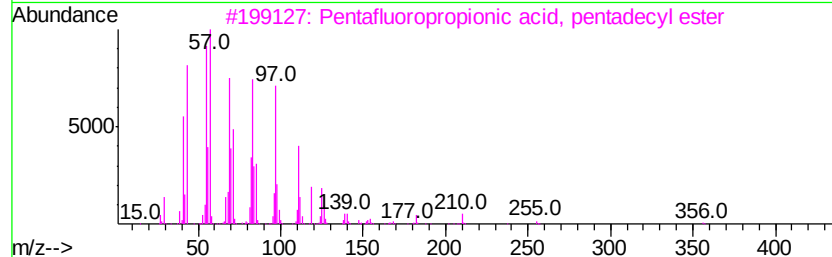
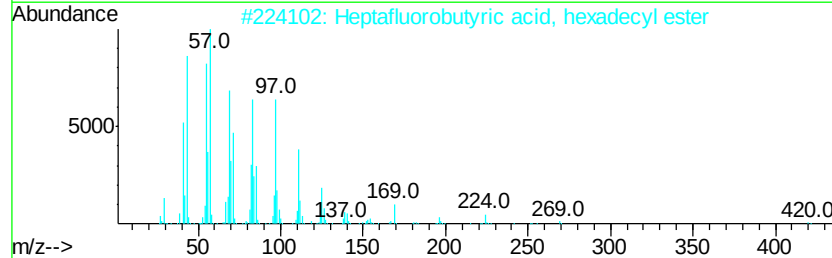
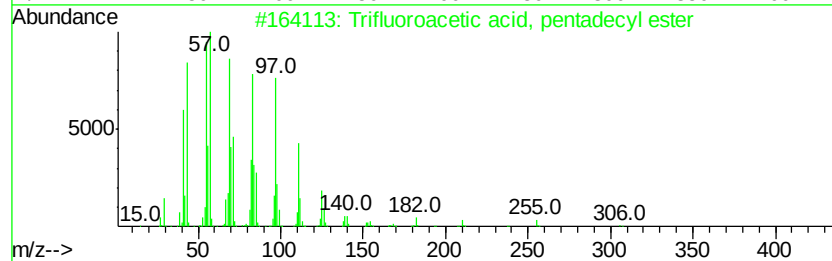
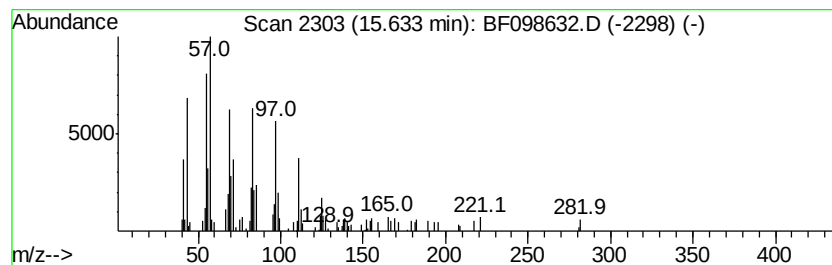
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Trifluoroacetic acid, penta... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.63 | 2.96 ng | 115850 | Perylene-d12     | 15.18 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 95   |
| 2    |    | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 93   |
| 3    |    | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 93   |
| 4    |    | Trifluoroacetoxv hexadecane         | 338 | C18H33F3O2 | 006222-03-3 | 93   |
| 5    |    | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-25D46

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

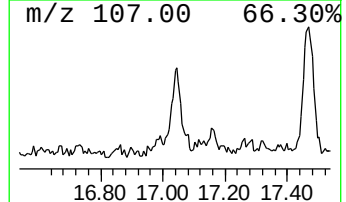
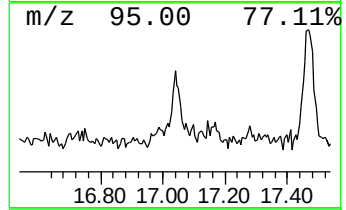
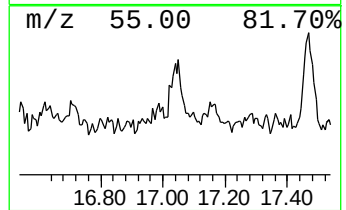
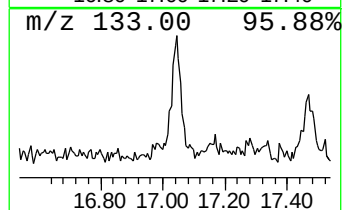
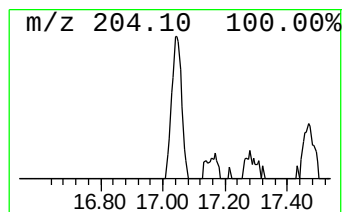
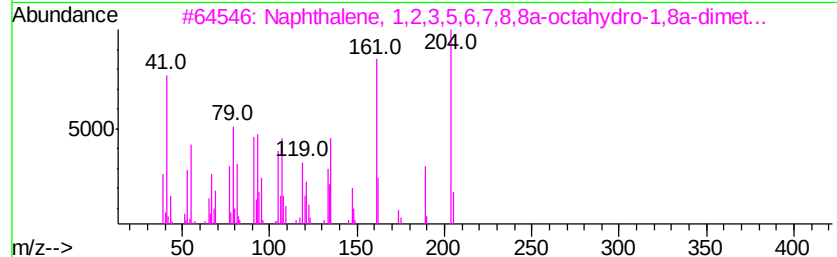
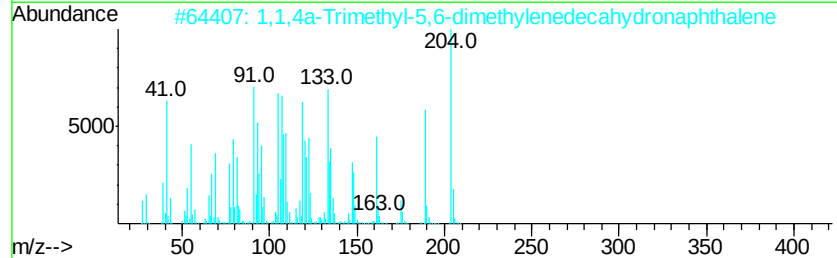
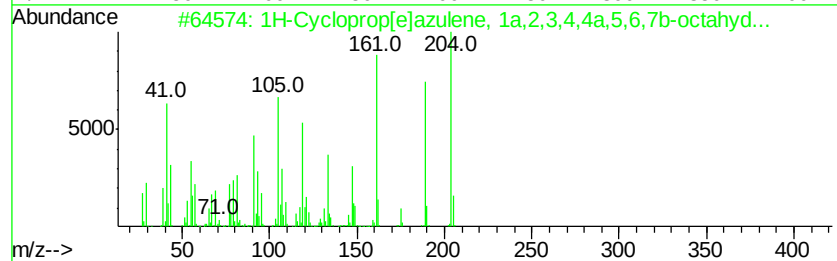
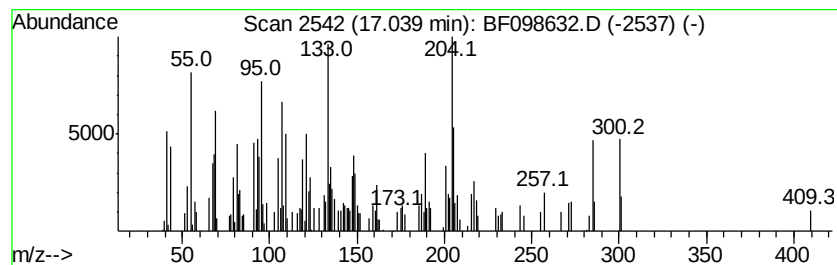
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 1H-Cycloprop[e]azulene, 1a,... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.04 | 5.39 ng | 211172 | Perylene-d12     | 15.18 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1H-Cycloprop[elazulene, 1a,2,3,4... | 204 | C15H24  | 000489-40-7  | 50   |
| 2    |    | 1,1,4a-Trimethyl-5,6-dimethylene... | 204 | C15H24  | 1000193-60-8 | 35   |
| 3    |    | Naphthalene, 1,2,3,5,6,7,8,8a-oc... | 204 | C15H24  | 004630-07-3  | 30   |
| 4    |    | 3H-3a,7-Methanoazulene, 2,4,5,6,... | 204 | C15H24  | 002387-78-2  | 25   |
| 5    |    | 1,4-Dimethyl-8-isopropylidenetri... | 204 | C15H24  | 1000140-07-7 | 18   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091817\  
Data File : BF098632.D  
Acq On : 19 Sep 2017 5:58  
Operator : SJ/JU  
Sample : I5265-08  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-25D46

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

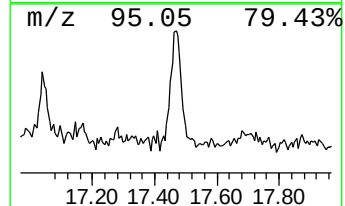
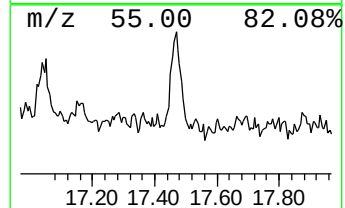
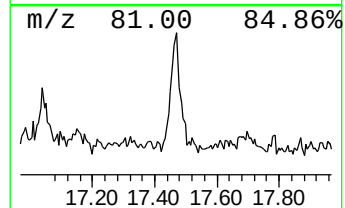
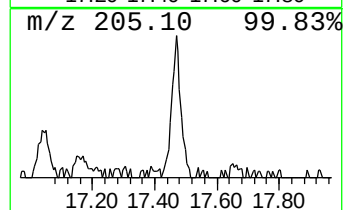
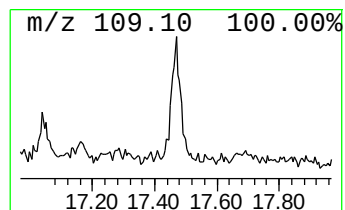
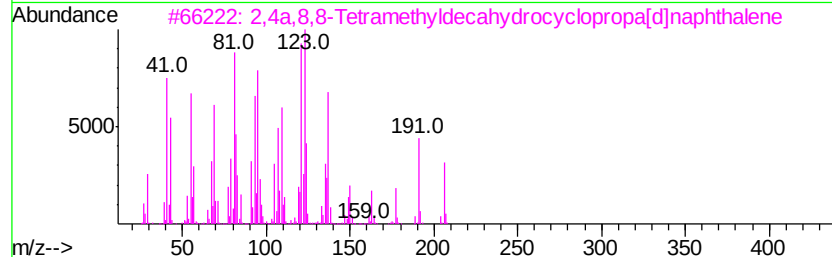
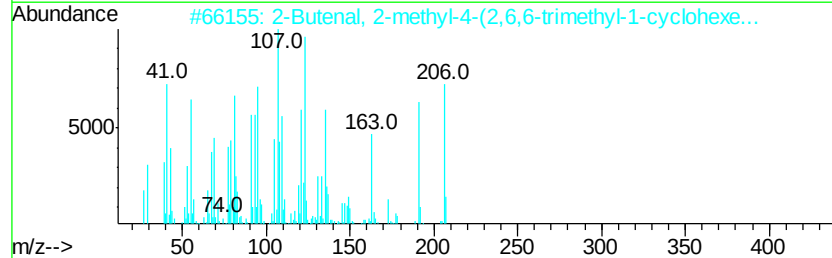
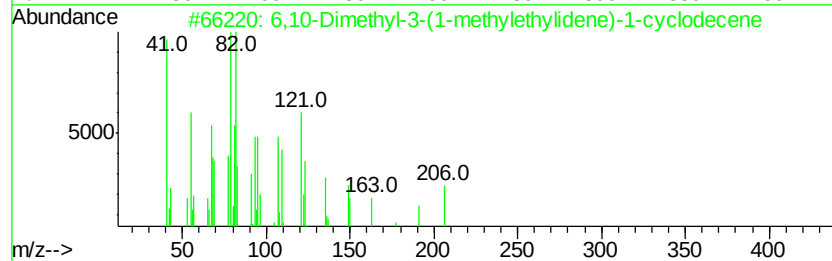
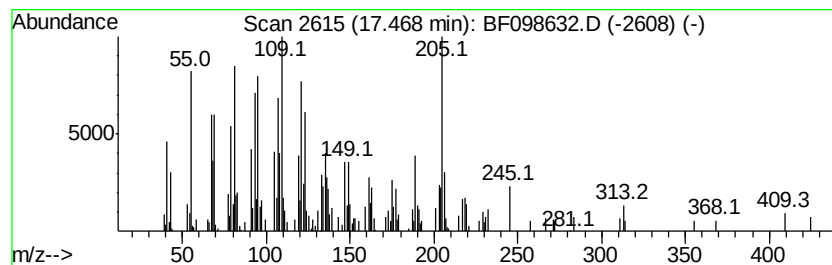
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 6,10-Dimethyl-3-(1-methylet... Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.47 | 9.31 ng | 364421 | Perylene-d12     | 15.18 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 6,10-Dimethyl-3-(1-methylethyli...  | 206 | C15H26    | 069239-71-0 | 78   |
| 2    |    | 2-Butenal, 2-methyl-4-(2,6,6-tri... | 206 | C14H22O   | 003155-71-3 | 38   |
| 3    |    | 2,4a,8,8-Tetramethyldecahydrocyc... | 206 | C15H26    | 074022-04-1 | 25   |
| 4    |    | 1-Chloro-1-ethyl-3-methyl-1-germ... | 206 | C7H13ClGe | 026311-76-2 | 25   |
| 5    |    | 3-Octyne, 7-methyl-                 | 124 | C9H16     | 037050-06-9 | 22   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091817\  
 Data File : BF098632.D  
 Acq On : 19 Sep 2017 5:58  
 Operator : SJ/JU  
 Sample : I5265-08  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-25D46

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.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... | 4.82  | 9.6 ng  |       | 348465   | 1                     | 6.63  | 723206 | 20.0 |
| unknown6.41          | 6.41  | 85.3 ng |       | 3085750  | 1                     | 6.63  | 723206 | 20.0 |
| Octadecane           | 12.24 | 4.2 ng  |       | 199642   | 4                     | 11.15 | 943624 | 20.0 |
| Hexadecanoic acid... | 12.56 | 2.5 ng  |       | 91581    | 5                     | 13.78 | 731166 | 20.0 |
| Heneicosane          | 12.96 | 3.5 ng  |       | 128632   | 5                     | 13.78 | 731166 | 20.0 |
| 1,19-Eicosadiene     | 13.42 | 3.0 ng  |       | 108403   | 5                     | 13.78 | 731166 | 20.0 |
| Tetracosyl heptaf... | 13.63 | 9.4 ng  |       | 344646   | 5                     | 13.78 | 731166 | 20.0 |
| Heptadecyl heptaf... | 14.26 | 8.4 ng  |       | 308383   | 5                     | 13.78 | 731166 | 20.0 |
| Hentriacontane       | 14.54 | 2.2 ng  |       | 85106    | 6                     | 15.18 | 782920 | 20.0 |
| Behenic alcohol      | 14.87 | 4.9 ng  |       | 190080   | 6                     | 15.18 | 782920 | 20.0 |
| Trifluoroacetic a... | 15.63 | 3.0 ng  |       | 115850   | 6                     | 15.18 | 782920 | 20.0 |
| 1H-Cycloprop[e]az... | 17.04 | 5.4 ng  |       | 211172   | 6                     | 15.18 | 782920 | 20.0 |
| 6,10-Dimethyl-3-(... | 17.47 | 9.3 ng  |       | 364421   | 6                     | 15.18 | 782920 | 20.0 |