

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\  
 Data File : BF096099.D  
 Acq On : 21 Jun 2017 23:04  
 Operator : SJ/MA  
 Sample : I3736-07 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G14-0-1.5

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-BF060517.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         | 1.557       | 9             | 12          | 49           | rVB      | 1089741        | 2516254       | 100.00%         | 29.776%       |
| 2         | 5.251       | 636           | 640         | 651          | rBV2     | 29584          | 104977        | 4.17%           | 1.242%        |
| 3         | 6.934       | 923           | 926         | 932          | rBV      | 36221          | 86730         | 3.45%           | 1.026%        |
| 4         | 6.986       | 932           | 935         | 941          | rBV      | 79153          | 157851        | 6.27%           | 1.868%        |
| 5         | 7.098       | 951           | 954         | 964          | rVB2     | 24746          | 38038         | 1.51%           | 0.450%        |
| 6         | 7.292       | 983           | 987         | 998          | rBV      | 318082         | 444385        | 17.66%          | 5.259%        |
| 7         | 7.533       | 1024          | 1028        | 1046         | rBV      | 115535         | 203220        | 8.08%           | 2.405%        |
| 8         | 8.245       | 1146          | 1149        | 1161         | rBV      | 32644          | 88169         | 3.50%           | 1.043%        |
| 9         | 8.339       | 1161          | 1165        | 1174         | rVB3     | 22547          | 38879         | 1.55%           | 0.460%        |
| 10        | 9.327       | 1328          | 1333        | 1345         | rBV      | 368959         | 547076        | 21.74%          | 6.474%        |
| 11        | 9.422       | 1345          | 1349        | 1357         | rVB      | 138713         | 179476        | 7.13%           | 2.124%        |
| 12        | 9.551       | 1367          | 1371        | 1375         | rVB      | 33904          | 39848         | 1.58%           | 0.472%        |
| 13        | 9.704       | 1391          | 1397        | 1401         | rBV4     | 15598          | 27941         | 1.11%           | 0.331%        |
| 14        | 9.863       | 1420          | 1424        | 1432         | rBV5     | 19145          | 35857         | 1.43%           | 0.424%        |
| 15        | 9.957       | 1432          | 1440        | 1444         | rBV3     | 48912          | 96985         | 3.85%           | 1.148%        |
| 16        | 10.010      | 1444          | 1449        | 1452         | rBV      | 40257          | 45333         | 1.80%           | 0.536%        |
| 17        | 10.063      | 1453          | 1458        | 1463         | rVB2     | 64734          | 76343         | 3.03%           | 0.903%        |
| 18        | 10.127      | 1464          | 1469        | 1474         | rBV      | 68786          | 94956         | 3.77%           | 1.124%        |
| 19        | 10.410      | 1511          | 1517        | 1522         | rBV      | 261973         | 333372        | 13.25%          | 3.945%        |
| 20        | 10.510      | 1528          | 1534        | 1538         | rBV3     | 20546          | 32945         | 1.31%           | 0.390%        |
| 21        | 10.563      | 1540          | 1543        | 1548         | rVB2     | 27433          | 40263         | 1.60%           | 0.476%        |
| 22        | 10.869      | 1591          | 1595        | 1598         | rBV3     | 37819          | 47878         | 1.90%           | 0.567%        |
| 23        | 11.004      | 1614          | 1618        | 1622         | rVB      | 33351          | 36366         | 1.45%           | 0.430%        |
| 24        | 11.063      | 1622          | 1628        | 1631         | rBV2     | 28613          | 40271         | 1.60%           | 0.477%        |
| 25        | 11.104      | 1631          | 1635        | 1647         | rVB      | 229613         | 308088        | 12.24%          | 3.646%        |
| 26        | 11.327      | 1667          | 1673        | 1680         | rBV      | 126362         | 161109        | 6.40%           | 1.906%        |
| 27        | 12.145      | 1807          | 1812        | 1817         | rBV2     | 408092         | 543642        | 21.61%          | 6.433%        |
| 28        | 12.192      | 1817          | 1820        | 1824         | rVB      | 42716          | 55568         | 2.21%           | 0.658%        |
| 29        | 13.463      | 2032          | 2036        | 2049         | rBV2     | 42860          | 79528         | 3.16%           | 0.941%        |
| 30        | 13.768      | 2083          | 2088        | 2098         | rBV5     | 10320          | 26303         | 1.05%           | 0.311%        |
| 31        | 14.539      | 2215          | 2219        | 2232         | rVB      | 335978         | 490767        | 19.50%          | 5.808%        |
| 32        | 16.374      | 2528          | 2531        | 2535         | rBV      | 31124          | 32952         | 1.31%           | 0.390%        |
| 33        | 16.680      | 2579          | 2583        | 2588         | rBV      | 41338          | 57473         | 2.28%           | 0.680%        |
| 34        | 16.921      | 2620          | 2624        | 2628         | rBV      | 213967         | 246908        | 9.81%           | 2.922%        |

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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G14-0-1.5

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-BF060517.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 17.333 | 2691 | 2694 | 2697 | rVB5 | 20234  | 26765  | 1.06%  | 0.317% |
| 36 | 18.274 | 2849 | 2854 | 2862 | rBV  | 406457 | 552913 | 21.97% | 6.543% |
| 37 | 18.345 | 2862 | 2866 | 2870 | rVB  | 137822 | 152904 | 6.08%  | 1.809% |
| 38 | 19.944 | 3135 | 3138 | 3142 | rBV  | 275924 | 333354 | 13.25% | 3.945% |
| 39 | 22.909 | 3638 | 3642 | 3643 | rBV4 | 29902  | 28853  | 1.15%  | 0.341% |

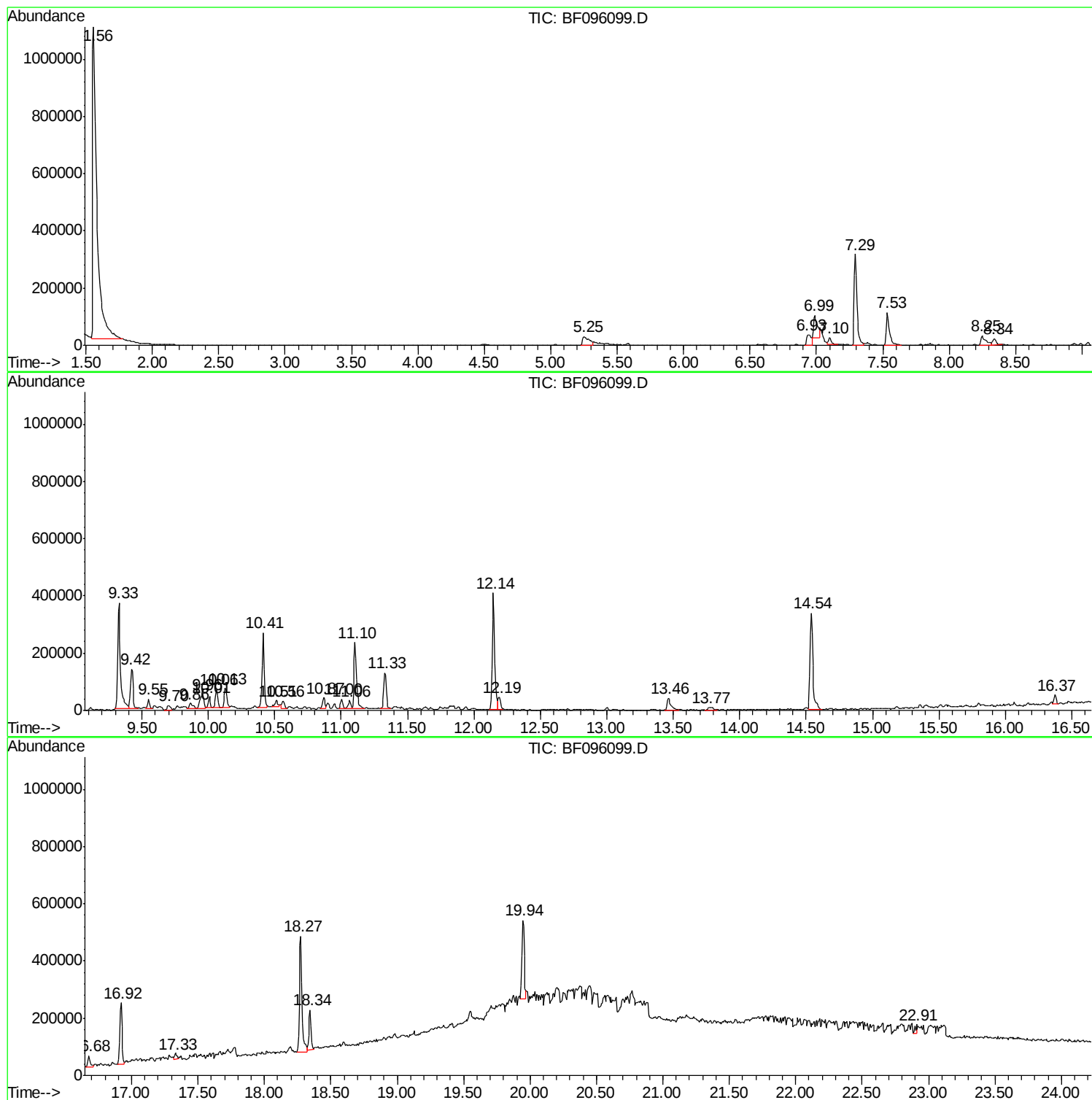
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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ALS Vial : 20 Sample Multiplier: 1

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G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

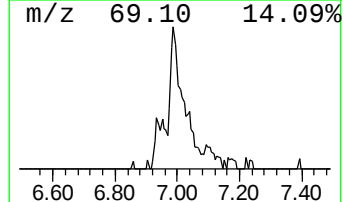
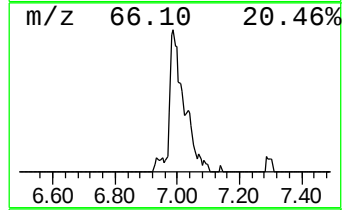
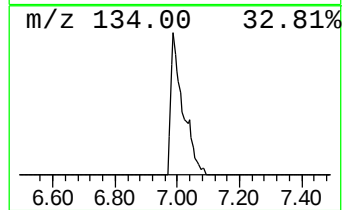
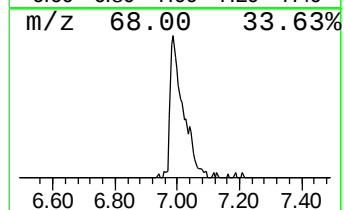
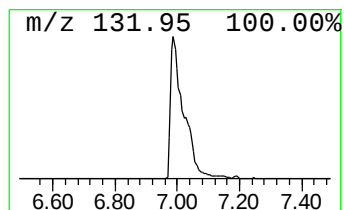
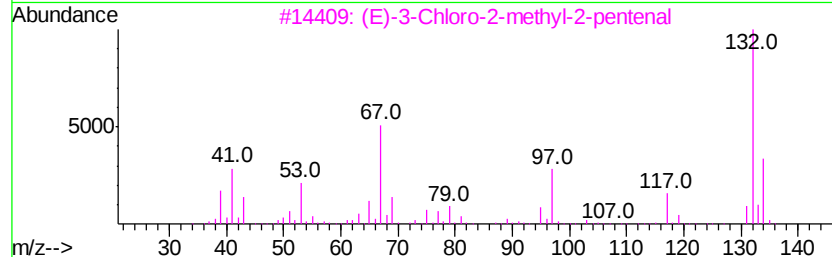
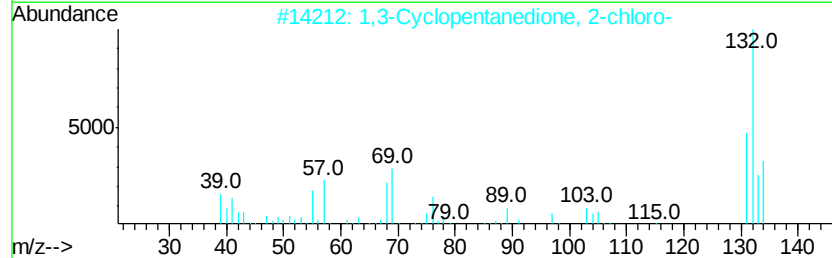
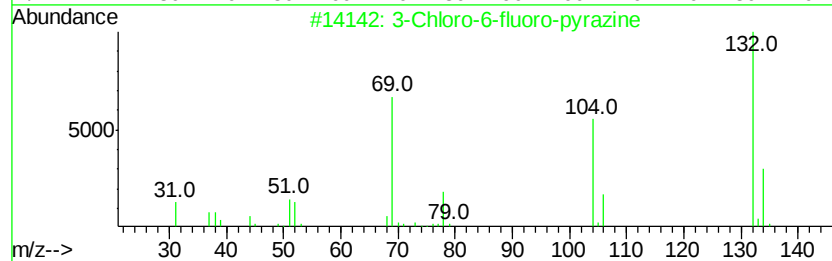
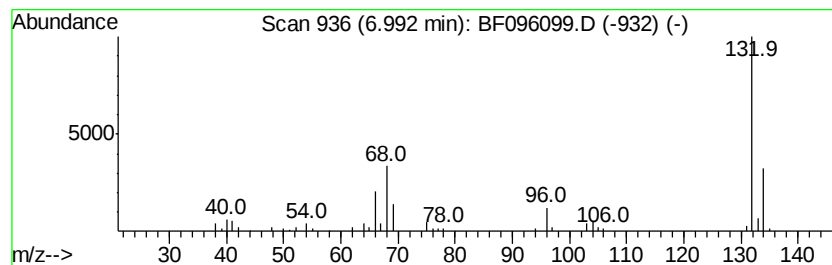
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.99 Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.99 | 7.10 ng | 157851 | 1,4-Dichlorobenzene-d4 | 7.29 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2  | 014203-19-1  | 23   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |



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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

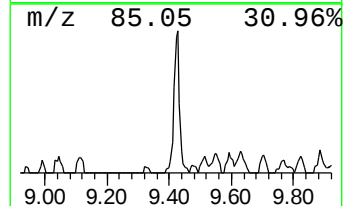
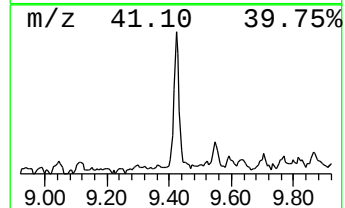
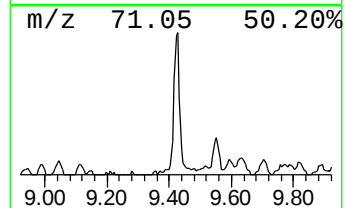
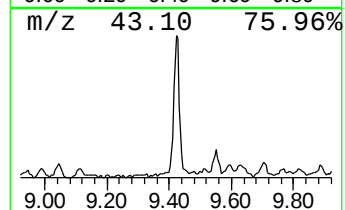
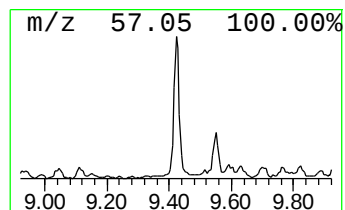
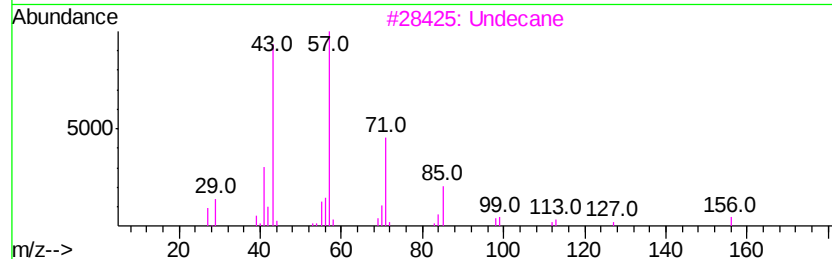
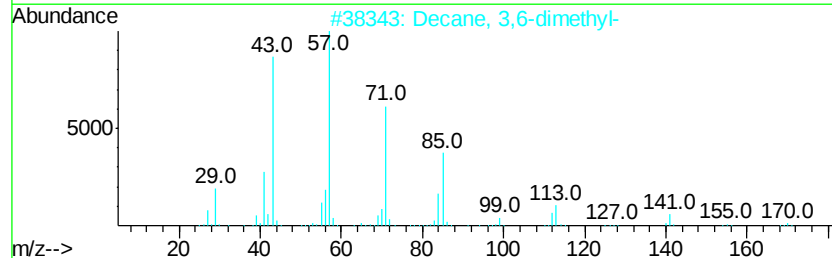
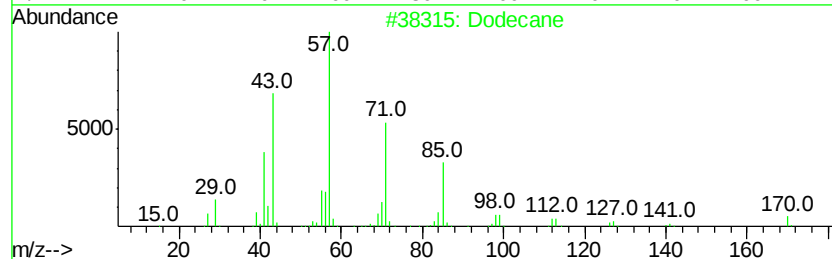
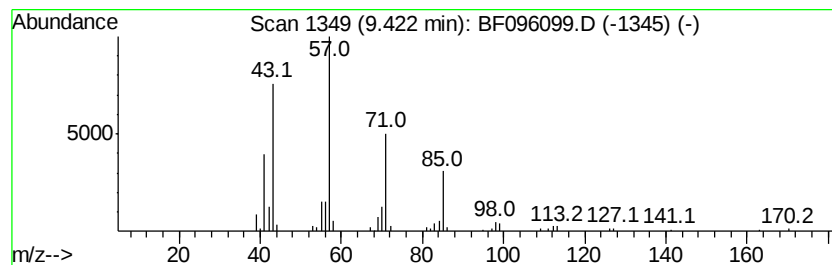
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Dodecane Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.42 | 6.56 ng | 179476 | Napthalene-d8    | 9.33 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane              |              | 170 | C12H26  | 000112-40-3 | 94   |
| 2       | Decane, 3,6-dimethyl- |              | 170 | C12H26  | 017312-53-7 | 87   |
| 3       | Undecane              |              | 156 | C11H24  | 001120-21-4 | 86   |
| 4       | Hexadecane            |              | 226 | C16H34  | 000544-76-3 | 86   |
| 5       | Tetradecane           |              | 198 | C14H30  | 000629-59-4 | 83   |



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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

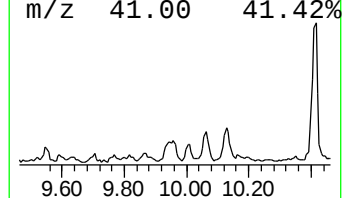
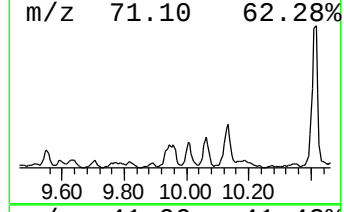
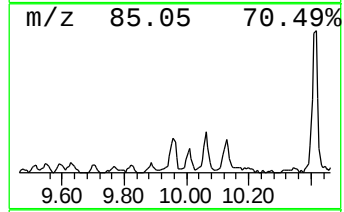
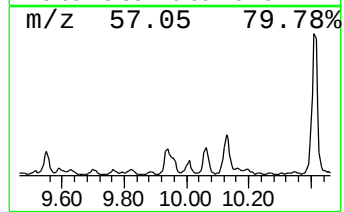
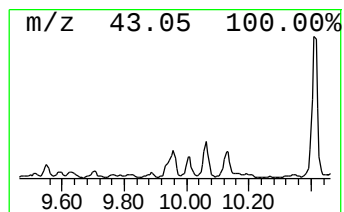
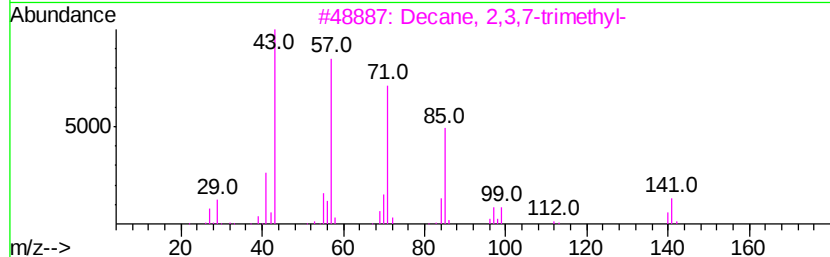
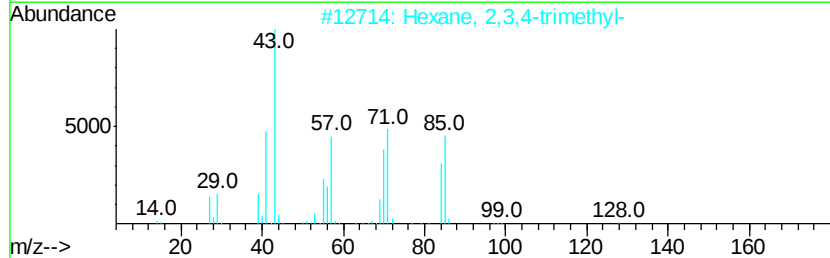
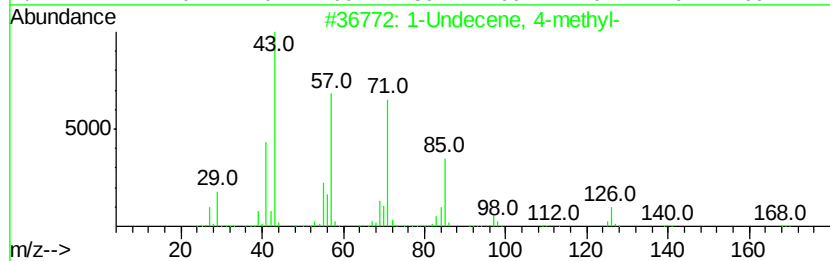
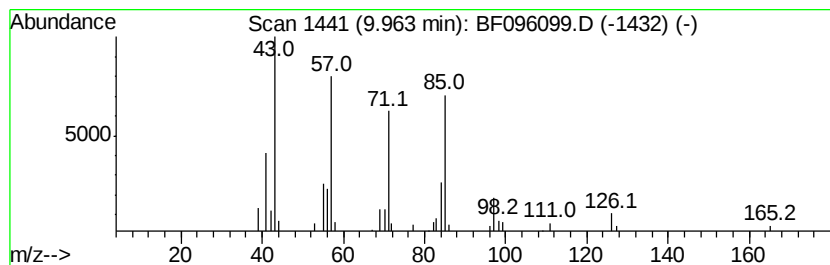
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1-Undecene, 4-methyl- Concentration Rank 7

| R.T. | EstConc | Area  | Relative to ISTD | R.T. |
|------|---------|-------|------------------|------|
| 9.96 | 3.55 ng | 96985 | Naphthalene-d8   | 9.33 |

| Hit# of | 5 | Tentative ID                  | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------|-----|----------|--------------|------|
| 1       |   | 1-Undecene, 4-methyl-         | 168 | C12H24   | 074630-39-0  | 59   |
| 2       |   | Hexane, 2,3,4-trimethyl-      | 128 | C9H20    | 000921-47-1  | 59   |
| 3       |   | Decane, 2,3,7-trimethyl-      | 184 | C13H28   | 062238-13-5  | 47   |
| 4       |   | Heptane, 2,4,6-trimethyl-     | 142 | C10H22   | 002613-61-8  | 47   |
| 5       |   | Hexan-2-yl isobutyl carbonate | 202 | C11H22O3 | 1000372-75-5 | 43   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

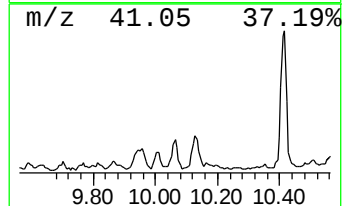
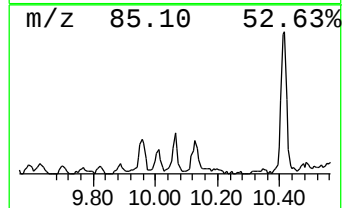
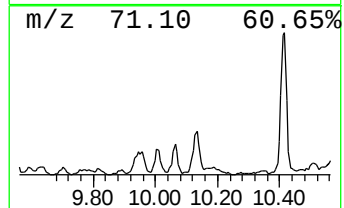
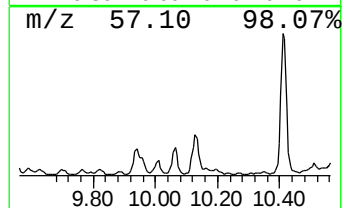
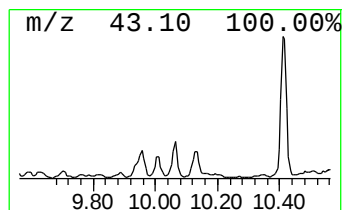
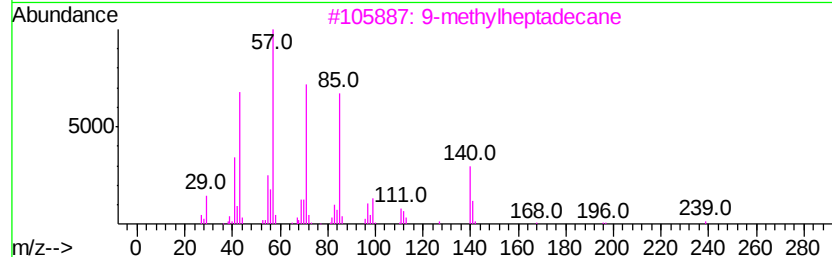
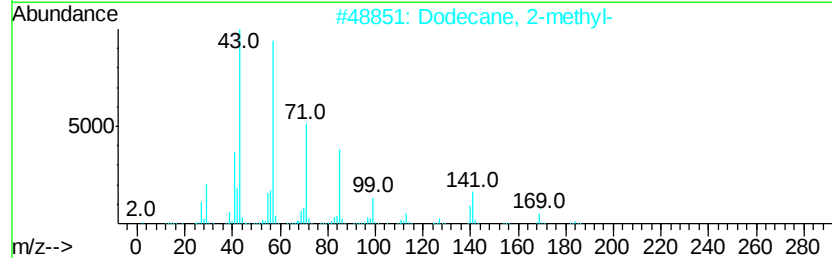
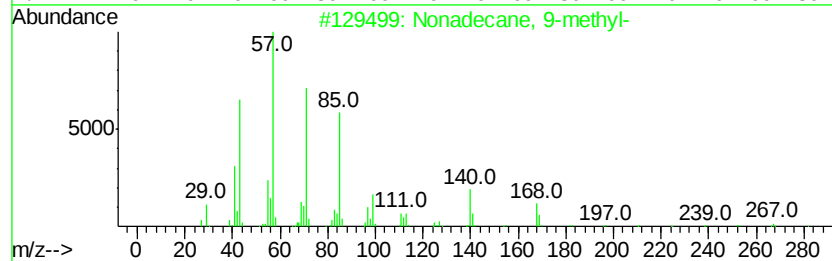
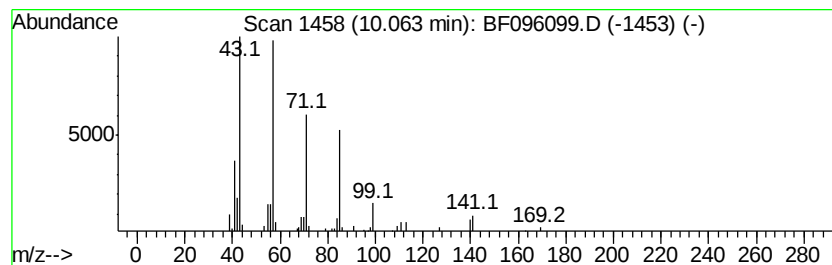
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Nonadecane, 9-methyl- Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T. |
|-------|---------|-------|------------------|------|
| 10.06 | 2.79 ng | 76343 | Naphthalene-d8   | 9.33 |

| Hit# of | 5                     | Tentative ID | MW      | MolForm     | CAS# | Qual |
|---------|-----------------------|--------------|---------|-------------|------|------|
| 1       | Nonadecane, 9-methyl- | 282          | C20H42  | 013287-24-6 | 86   |      |
| 2       | Dodecane, 2-methyl-   | 184          | C13H28  | 001560-97-0 | 78   |      |
| 3       | 9-methylheptadecane   | 254          | C18H38  | 026741-18-4 | 78   |      |
| 4       | 10-Methylnonadecane   | 282          | C20H42  | 056862-62-5 | 72   |      |
| 5       | Decane, 1-iodo-       | 268          | C10H21I | 002050-77-3 | 72   |      |



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G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

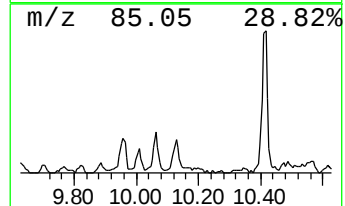
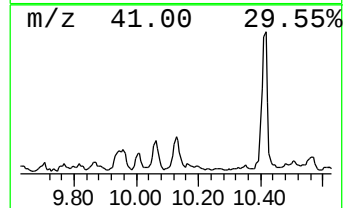
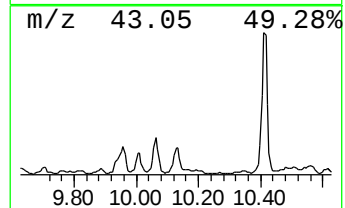
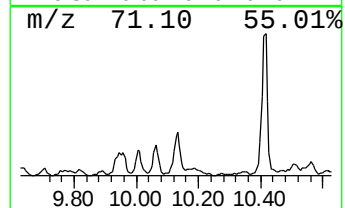
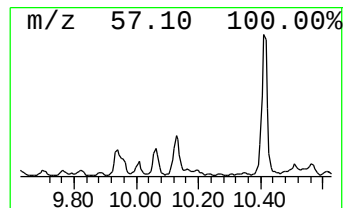
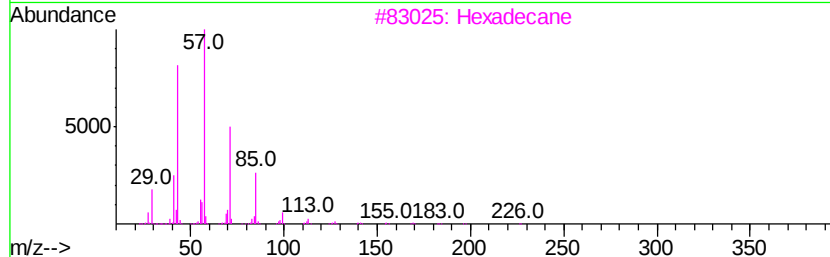
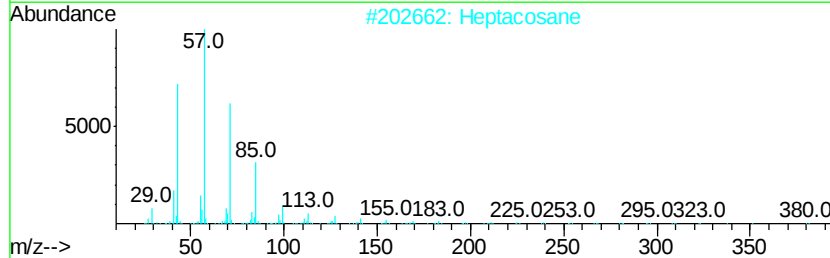
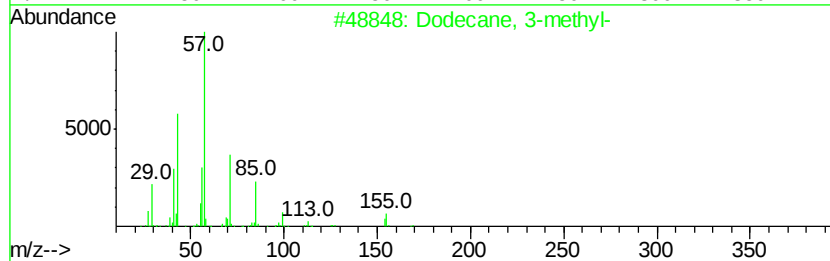
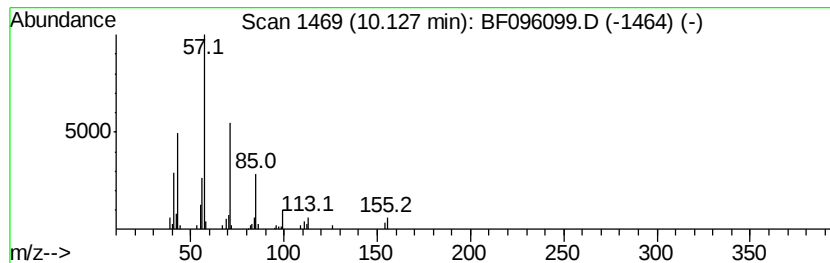
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Dodecane, 3-methyl- Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T. |
|-------|---------|-------|------------------|------|
| 10.13 | 3.47 ng | 94956 | Naphthalene-d8   | 9.33 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 3-methyl-     | 184 | C13H28  | 017312-57-1 | 78   |
| 2    |    | Heptacosane             | 380 | C27H56  | 000593-49-7 | 64   |
| 3    |    | Hexadecane              | 226 | C16H34  | 000544-76-3 | 64   |
| 4    |    | Undecane, 2,9-dimethyl- | 184 | C13H28  | 017301-26-7 | 59   |
| 5    |    | Tridecane, 2-methyl-    | 198 | C14H30  | 001560-96-9 | 59   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\  
Data File : BF096099.D  
Acq On : 21 Jun 2017 23:04  
Operator : SJ/MA  
Sample : I3736-07 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

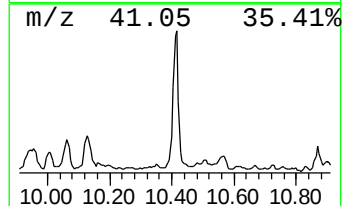
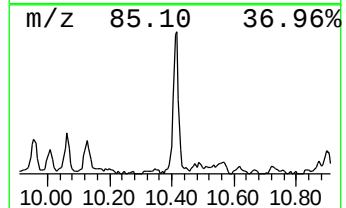
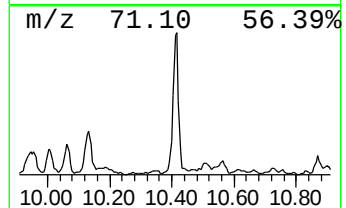
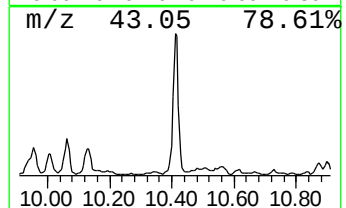
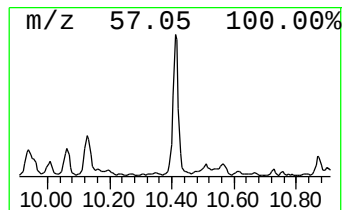
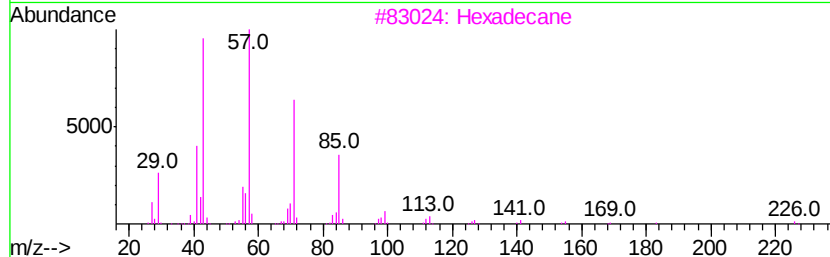
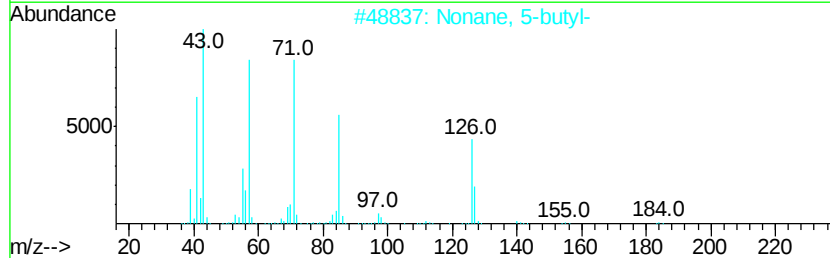
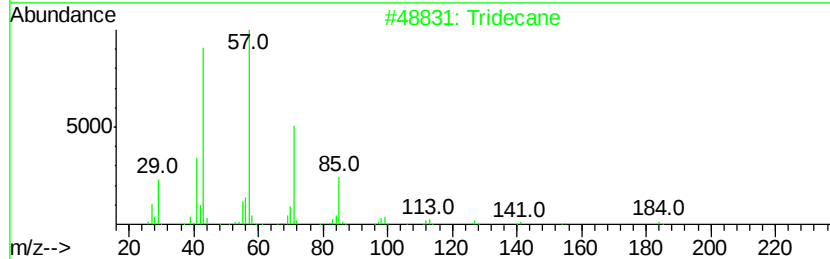
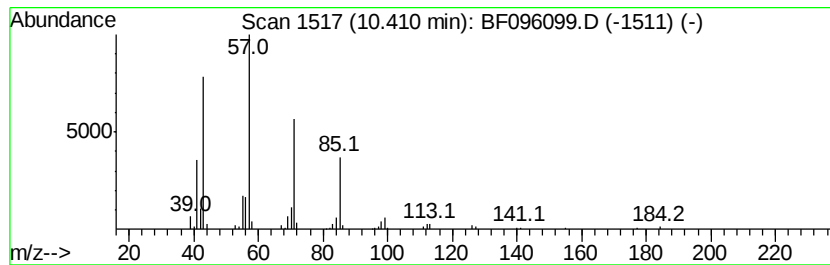
Instrument :  
BNA\_F  
ClientSampleId :  
G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.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 Tridecane Concentration Rank 2

| R.T.    | EstConc          | Area         | Relative to ISTD | R.T.      |
|---------|------------------|--------------|------------------|-----------|
| 10.41   | 12.19 ng         | 333372       | Naphthalene-d8   | 9.33      |
| Hit# of | 5                | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Tridecane        | 184 C13H28   | 000629-50-5      | 93        |
| 2       | Nonane, 5-butyl- | 184 C13H28   | 017312-63-9      | 90        |
| 3       | Hexadecane       | 226 C16H34   | 000544-76-3      | 90        |
| 4       | Tetradecane      | 198 C14H30   | 000629-59-4      | 90        |
| 5       | Undecane         | 156 C11H24   | 001120-21-4      | 86        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062117\  
Data File : BF096099.D  
Acq On : 21 Jun 2017 23:04  
Operator : SJ/MA  
Sample : I3736-07 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

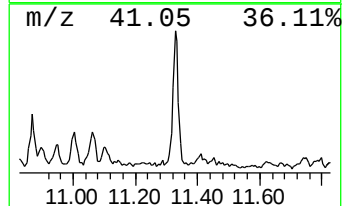
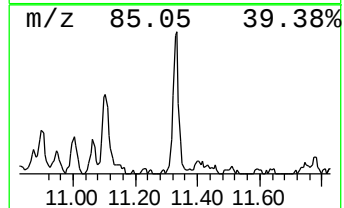
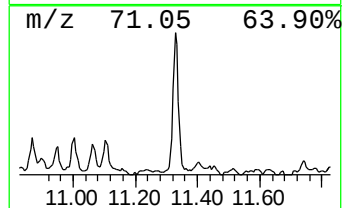
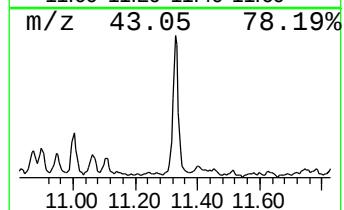
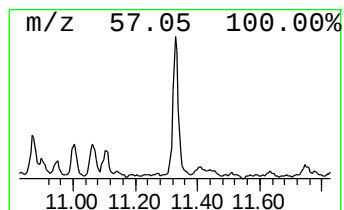
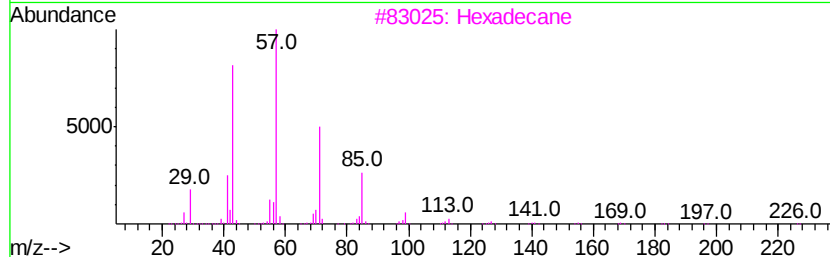
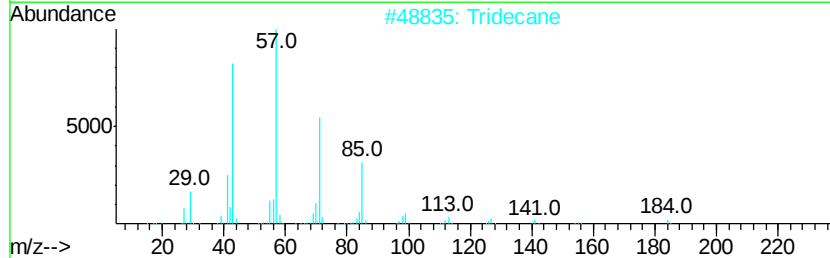
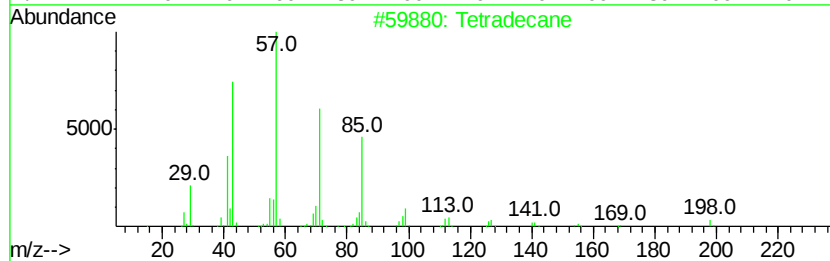
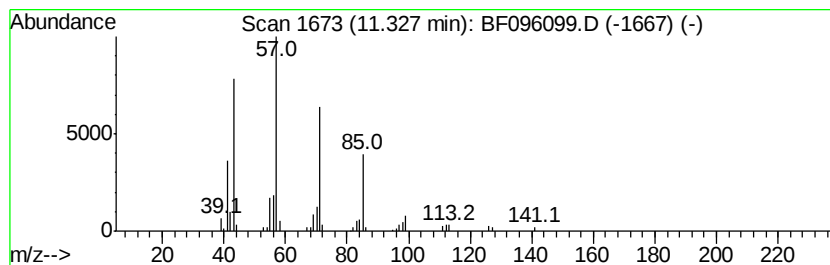
Instrument :  
BNA\_F  
ClientSampleId :  
G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.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 Tetradecane Concentration Rank 6

| R.T.      | EstConc                  | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------------|--------|------------------|-------------|-------|
| 11.33     | 5.93 ng                  | 161109 | Acenaphthene-d10 |             | 12.14 |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual  |
| 1         | Tetradecane              | 198    | C14H30           | 000629-59-4 | 90    |
| 2         | Tridecane                | 184    | C13H28           | 000629-50-5 | 83    |
| 3         | Hexadecane               | 226    | C16H34           | 000544-76-3 | 80    |
| 4         | Decane, 2,3,5-trimethyl- | 184    | C13H28           | 062238-11-3 | 80    |
| 5         | Nonane, 5-butyl-         | 184    | C13H28           | 017312-63-9 | 78    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062117\  
Data File : BF096099.D  
Acq On : 21 Jun 2017 23:04  
Operator : SJ/MA  
Sample : I3736-07 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G14-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.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 |
| unknown6.99          | 6.99  | 7.1     | ng    | 157851   | 1                     | 7.29  | 444385 | 20.0 |
| Dodecane             | 9.42  | 6.6     | ng    | 179476   | 2                     | 9.33  | 547076 | 20.0 |
| 1-Undecene, 4-met... | 9.96  | 3.5     | ng    | 96985    | 2                     | 9.33  | 547076 | 20.0 |
| Nonadecane, 9-met... | 10.06 | 2.8     | ng    | 76343    | 2                     | 9.33  | 547076 | 20.0 |
| Dodecane, 3-methyl-  | 10.13 | 3.5     | ng    | 94956    | 2                     | 9.33  | 547076 | 20.0 |
| Tridecane            | 10.41 | 12.2    | ng    | 333372   | 2                     | 9.33  | 547076 | 20.0 |
| Tetradecane          | 11.33 | 5.9     | ng    | 161109   | 3                     | 12.14 | 543642 | 20.0 |