

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110317\  
 Data File : BF100133.D  
 Acq On : 3 Nov 2017 14:40  
 Operator : SJ/JU  
 Sample : I6258-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BOXWOOD-DR-2-4-12-14

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-BF102317.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         | 4.992       | 490           | 494         | 510          | rBV      | 185910         | 325667        | 13.77%          | 1.587%        |
| 2         | 5.398       | 559           | 563         | 580          | rBV      | 1662913        | 1898413       | 80.27%          | 9.251%        |
| 3         | 6.422       | 733           | 737         | 754          | rBV      | 1712805        | 2002002       | 84.65%          | 9.756%        |
| 4         | 6.545       | 754           | 758         | 773          | rVB      | 2145449        | 2015737       | 85.23%          | 9.822%        |
| 5         | 6.769       | 793           | 796         | 804          | rBV      | 512984         | 462350        | 19.55%          | 2.253%        |
| 6         | 6.922       | 818           | 822         | 840          | rBB      | 1766281        | 1604359       | 67.84%          | 7.818%        |
| 7         | 7.339       | 889           | 893         | 911          | rBV      | 1160400        | 1248837       | 52.81%          | 6.085%        |
| 8         | 8.051       | 1010          | 1014        | 1025         | rBV      | 717403         | 665340        | 28.13%          | 3.242%        |
| 9         | 9.122       | 1191          | 1196        | 1200         | rBV      | 2354717        | 2364944       | 100.00%         | 11.524%       |
| 10        | 9.522       | 1261          | 1264        | 1269         | rVB      | 195397         | 152527        | 6.45%           | 0.743%        |
| 11        | 9.804       | 1308          | 1312        | 1320         | rVB2     | 907178         | 782154        | 33.07%          | 3.811%        |
| 12        | 10.604      | 1444          | 1448        | 1455         | rBV      | 1427823        | 1359202       | 57.47%          | 6.623%        |
| 13        | 11.298      | 1562          | 1566        | 1569         | rBV      | 902106         | 790745        | 33.44%          | 3.853%        |
| 14        | 11.321      | 1569          | 1570        | 1574         | rVB      | 57248          | 41474         | 1.75%           | 0.202%        |
| 15        | 11.810      | 1649          | 1653        | 1662         | rBV3     | 165005         | 181398        | 7.67%           | 0.884%        |
| 16        | 12.515      | 1766          | 1773        | 1781         | rBV      | 193961         | 190306        | 8.05%           | 0.927%        |
| 17        | 12.592      | 1782          | 1786        | 1790         | rBV      | 55215          | 55438         | 2.34%           | 0.270%        |
| 18        | 12.745      | 1806          | 1812        | 1819         | rVB      | 134302         | 159097        | 6.73%           | 0.775%        |
| 19        | 12.880      | 1830          | 1835        | 1838         | rBV      | 2195801        | 2139242       | 90.46%          | 10.424%       |
| 20        | 13.080      | 1860          | 1869        | 1873         | rBV3     | 29735          | 58923         | 2.49%           | 0.287%        |
| 21        | 13.721      | 1973          | 1978        | 1980         | rBV2     | 17743          | 27253         | 1.15%           | 0.133%        |
| 22        | 13.751      | 1980          | 1983        | 1992         | rVB2     | 240991         | 270489        | 11.44%          | 1.318%        |
| 23        | 13.945      | 2012          | 2016        | 2020         | rBV      | 608366         | 687625        | 29.08%          | 3.351%        |
| 24        | 13.974      | 2020          | 2021        | 2026         | rVB      | 69861          | 65157         | 2.76%           | 0.318%        |
| 25        | 14.386      | 2088          | 2091        | 2094         | rBV3     | 28992          | 33486         | 1.42%           | 0.163%        |
| 26        | 14.821      | 2161          | 2165        | 2170         | rBV3     | 28821          | 31557         | 1.33%           | 0.154%        |
| 27        | 14.998      | 2191          | 2195        | 2198         | rBV      | 80043          | 111192        | 4.70%           | 0.542%        |
| 28        | 15.027      | 2198          | 2200        | 2206         | rVB3     | 42071          | 48586         | 2.05%           | 0.237%        |
| 29        | 15.298      | 2242          | 2246        | 2250         | rVB      | 28671          | 34569         | 1.46%           | 0.168%        |
| 30        | 15.356      | 2253          | 2256        | 2261         | rBV      | 54257          | 63811         | 2.70%           | 0.311%        |
| 31        | 15.409      | 2261          | 2265        | 2274         | rBV      | 325914         | 432161        | 18.27%          | 2.106%        |
| 32        | 15.774      | 2323          | 2327        | 2331         | rBV2     | 34035          | 43307         | 1.83%           | 0.211%        |
| 33        | 15.827      | 2333          | 2336        | 2341         | rVV6     | 16364          | 25337         | 1.07%           | 0.123%        |
| 34        | 16.256      | 2405          | 2409        | 2415         | rVB5     | 14629          | 27607         | 1.17%           | 0.135%        |

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BOXWOOD-DR-2-4-12-14

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-BF102317.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |       |       |       |        |
|----|--------|------|------|------|-------|-------|-------|-------|--------|
| 35 | 16.809 | 2501 | 2503 | 2509 | rVB3  | 17840 | 28912 | 1.22% | 0.141% |
| 36 | 16.909 | 2515 | 2520 | 2528 | rVB3  | 20910 | 40958 | 1.73% | 0.200% |
| 37 | 18.086 | 2715 | 2720 | 2728 | rBV10 | 22019 | 51483 | 2.18% | 0.251% |

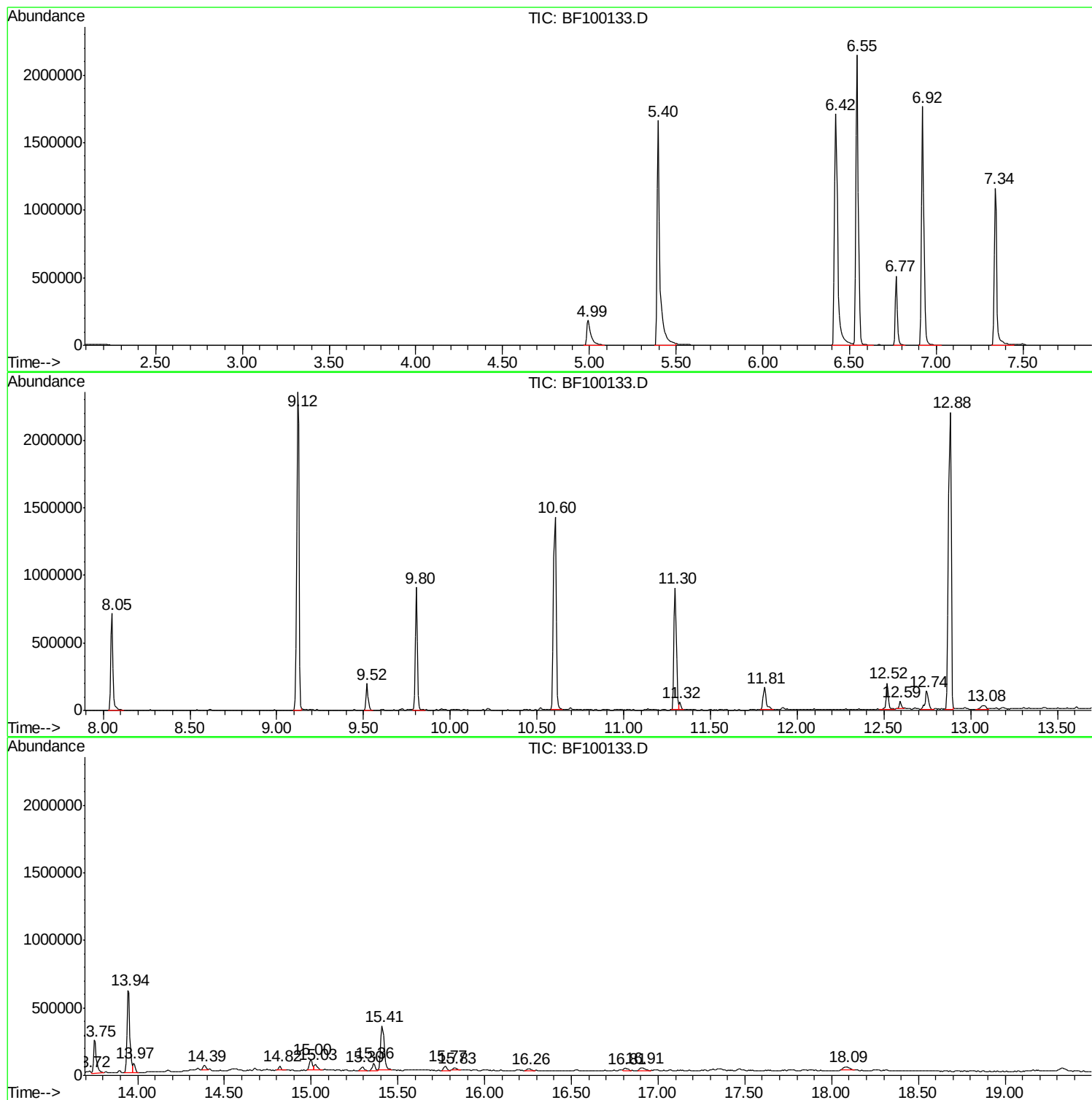
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

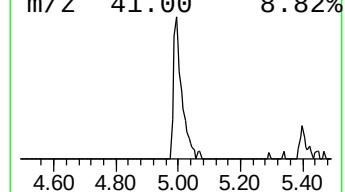
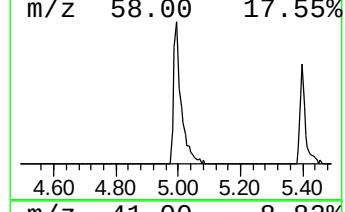
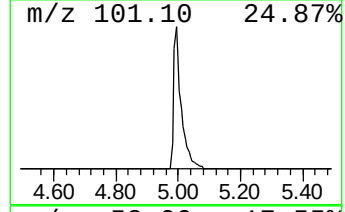
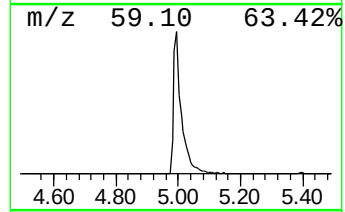
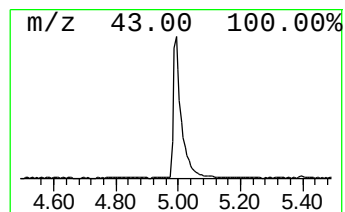
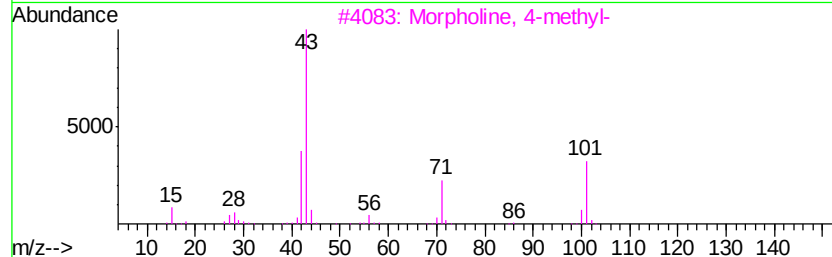
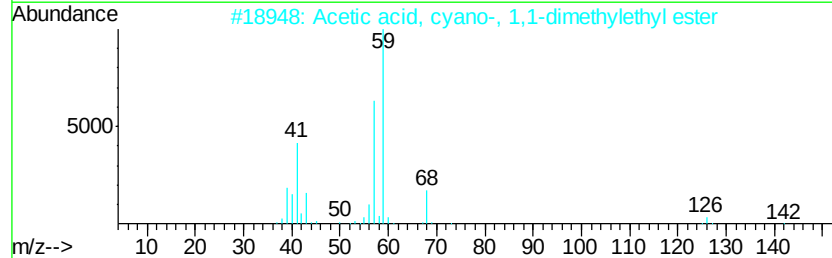
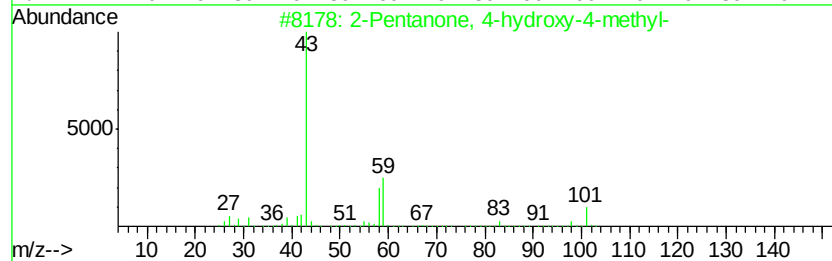
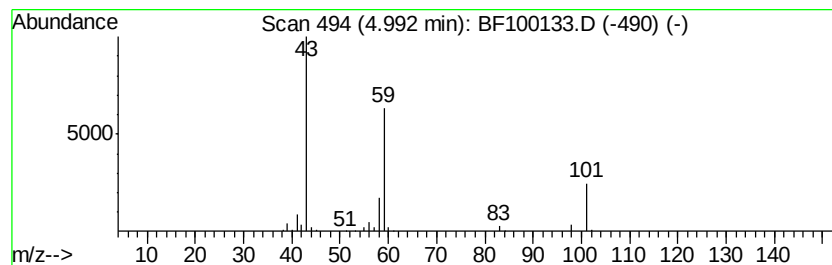
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|----------|--------|------------------------|------|
| 4.99 | 14.09 ng | 325667 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 3    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |
| 4    |    | Butane, 1-ethoxy-                   | 102 | C6H14O   | 000628-81-9 | 9    |
| 5    |    | 5-Hexen-2-one                       | 98  | C6H10O   | 000109-49-9 | 9    |



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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
BOXWOOD-DR-2-4-12-14

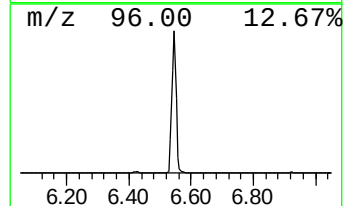
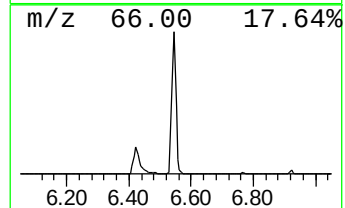
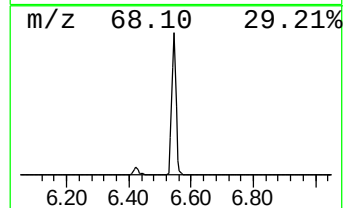
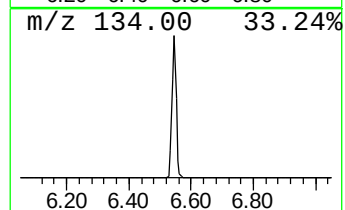
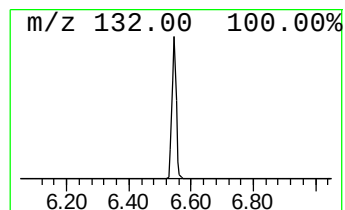
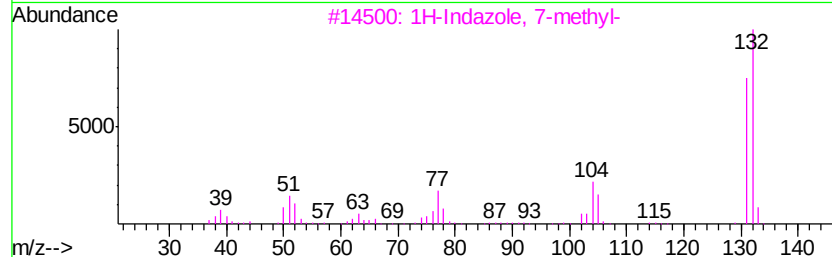
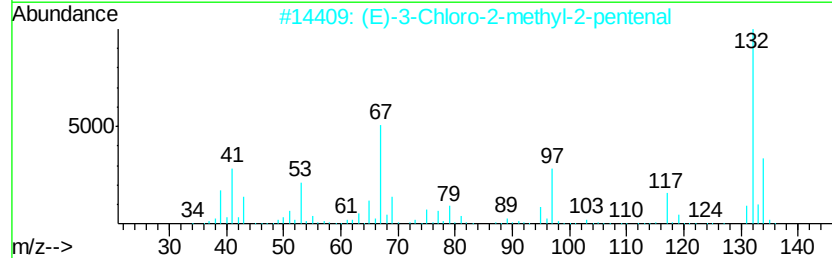
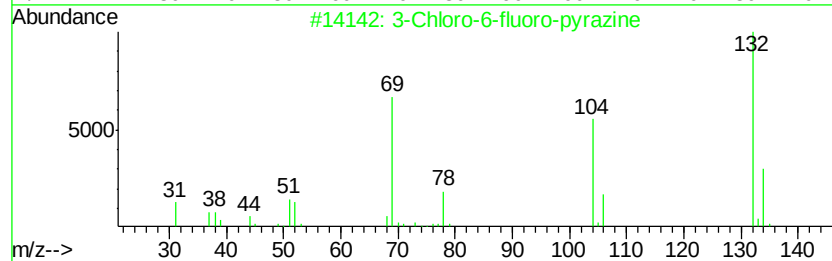
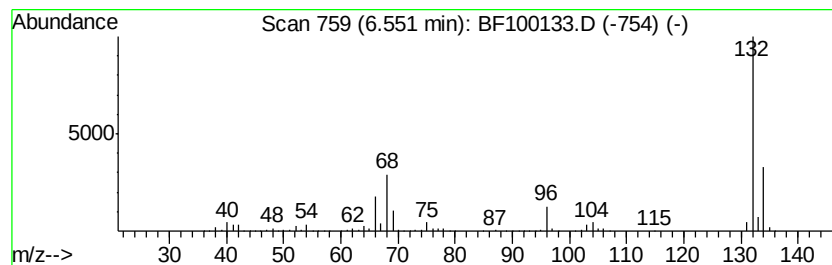
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.55 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.55 | 87.20 ng | 2015740 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 1H-Indazole, 7-methyl-           | 132 | C8H8N2    | 1000316-00-7 | 10   |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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Misc :  
ALS Vial : 4 Sample Multiplier: 1

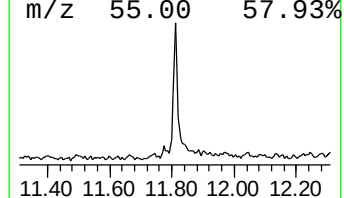
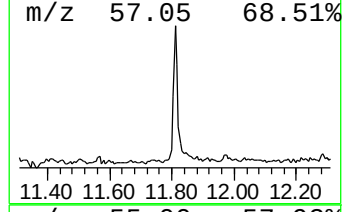
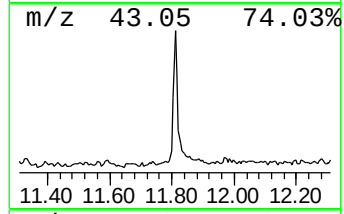
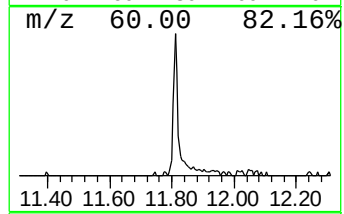
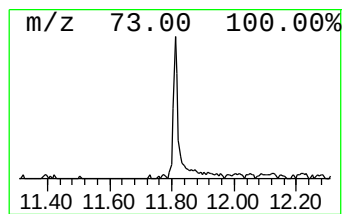
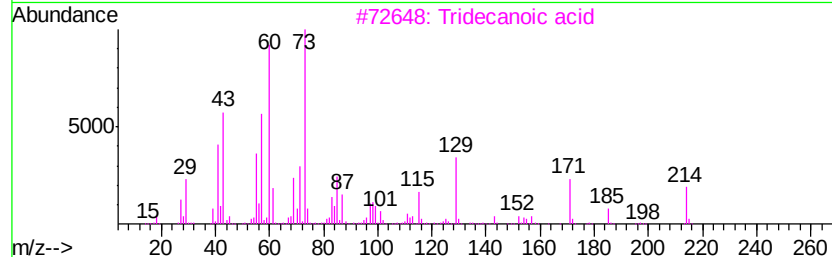
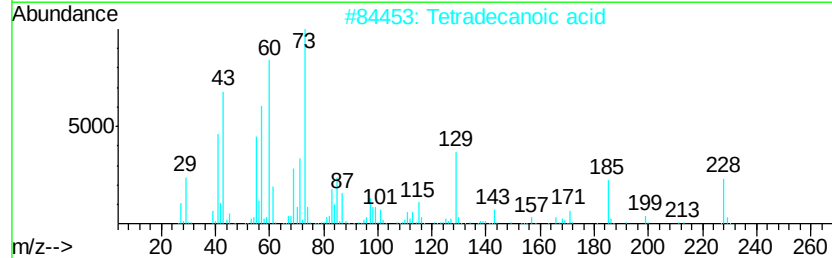
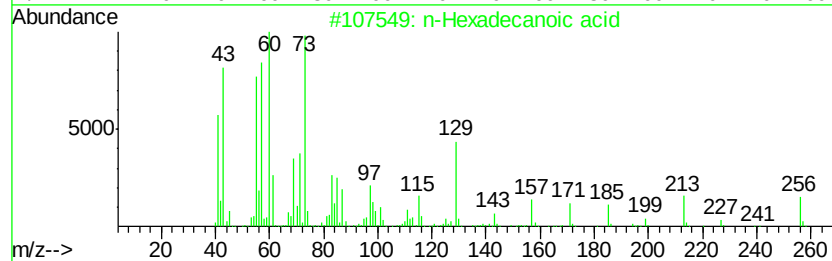
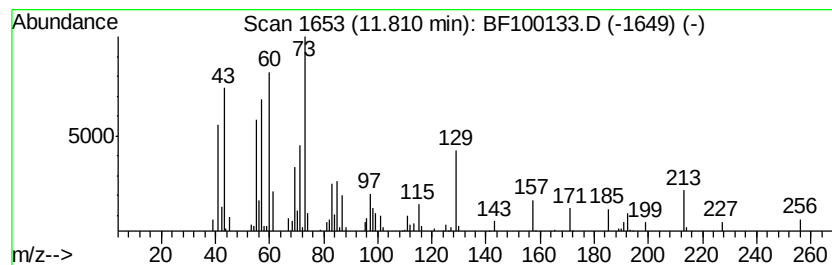
Instrument :  
BNA\_F  
ClientSampleId :  
BOXWOOD-DR-2-4-12-14

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.81     | 4.59 ng             | 181398 | Phenanthrene-d10 |             | 11.30 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99    |
| 2         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83    |
| 3         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 81    |
| 4         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 74    |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 68    |



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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

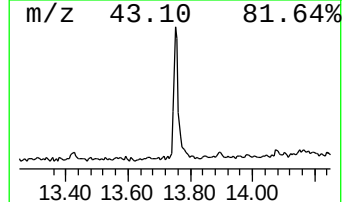
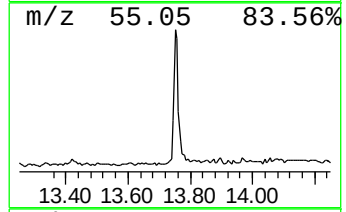
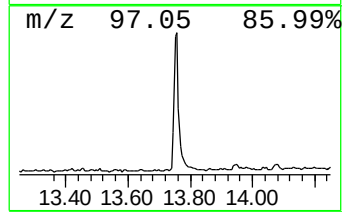
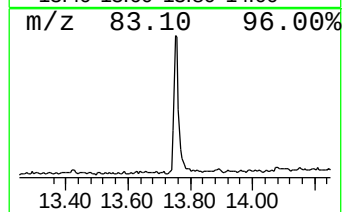
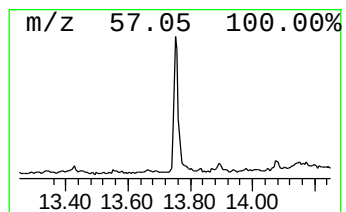
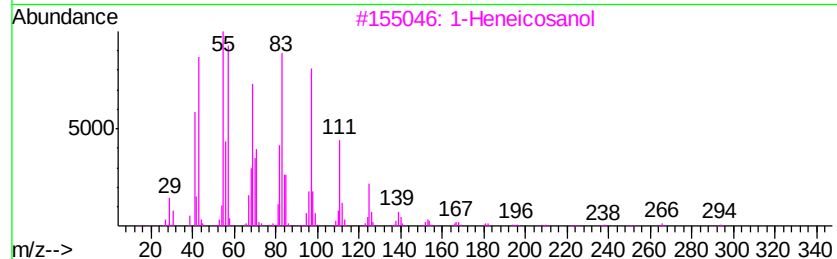
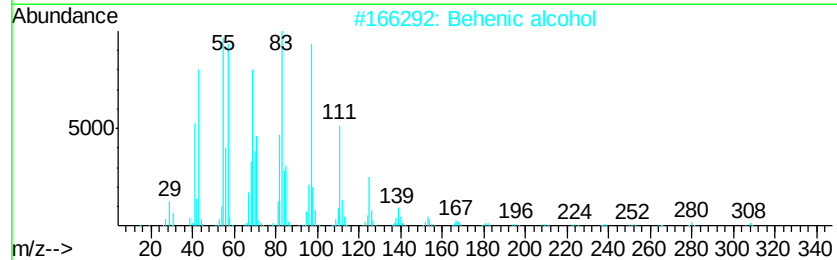
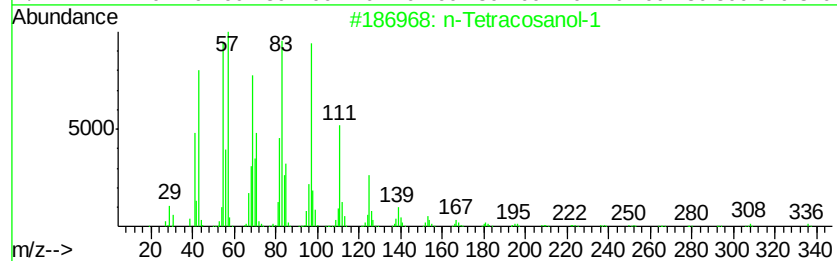
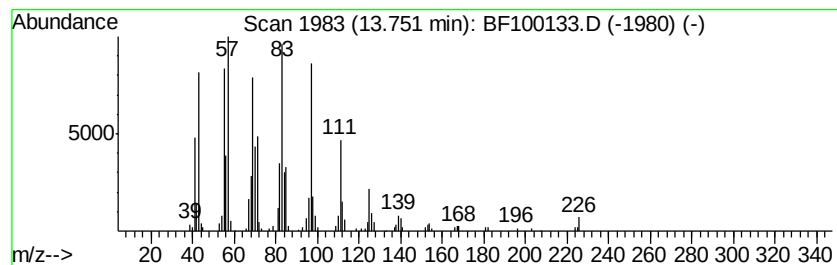
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Tetracosanol-1 Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.75 | 7.87 ng | 270489 | Chrysene-d12     | 13.95 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | n-Tetracosanol-1                    | 354 | C24H50O    | 000506-51-4  | 95   |
| 2       |   | Behenic alcohol                     | 326 | C22H46O    | 000661-19-8  | 95   |
| 3       |   | 1-Heneicosanol                      | 312 | C21H44O    | 015594-90-8  | 95   |
| 4       |   | Heptadecyl trifluoroacetate         | 352 | C19H35F3O2 | 1000351-87-0 | 93   |
| 5       |   | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2  | 93   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

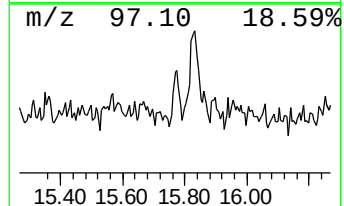
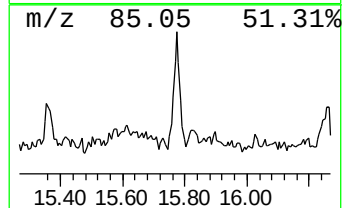
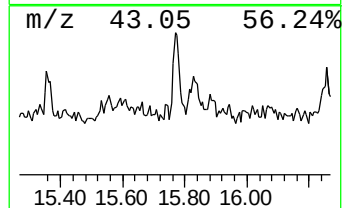
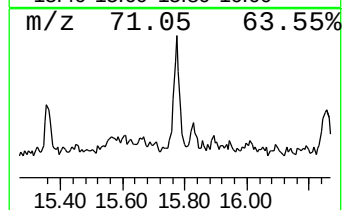
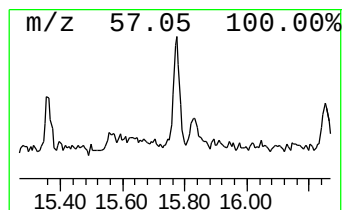
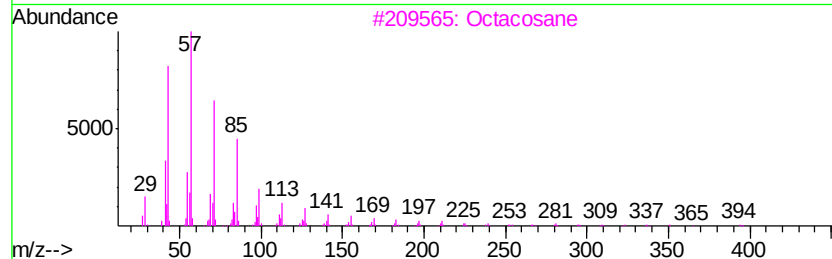
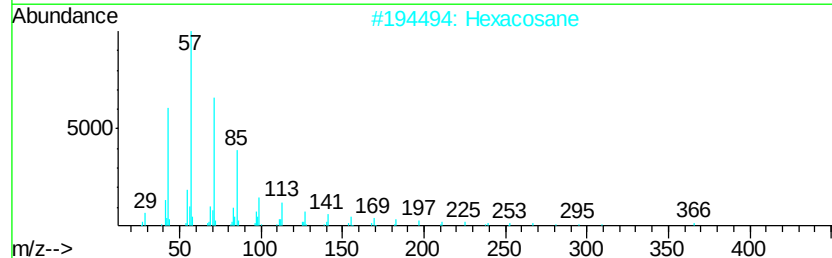
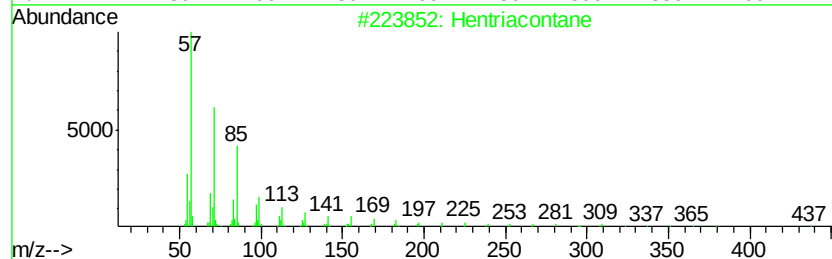
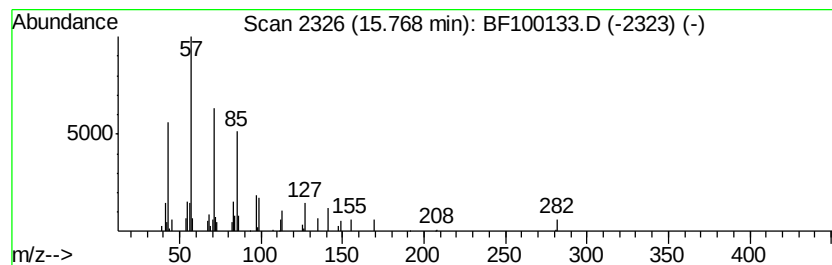
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hentriacontane Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.77 | 2.00 ng | 43307 | Perylene-d12     | 15.41 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 91   |
| 2    |    | Hexacosane        | 366 | C26H54  | 000630-01-3 | 91   |
| 3    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 91   |
| 4    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 87   |
| 5    |    | triacontane       | 422 | C30H62  | 000638-68-6 | 86   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110317\  
Data File : BF100133.D  
Acq On : 3 Nov 2017 14:40  
Operator : SJ/JU  
Sample : I6258-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

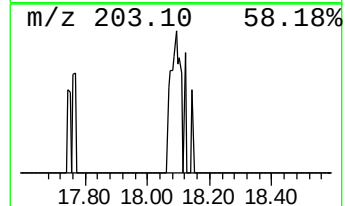
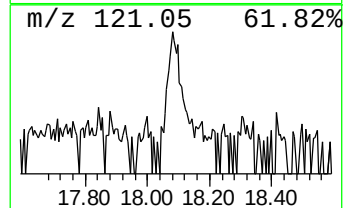
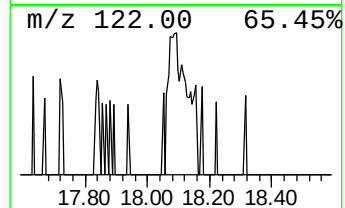
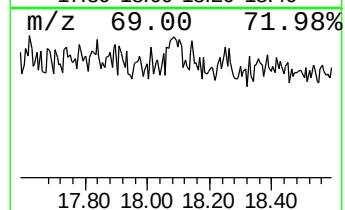
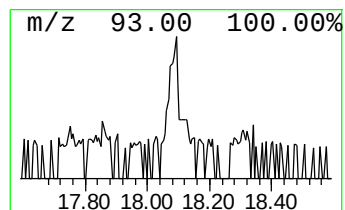
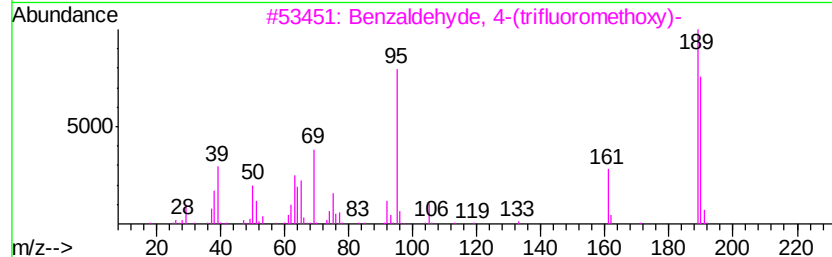
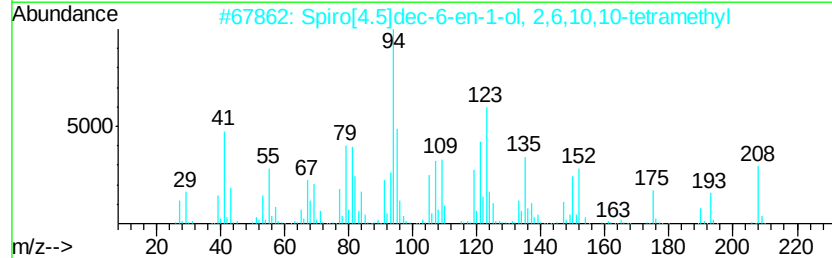
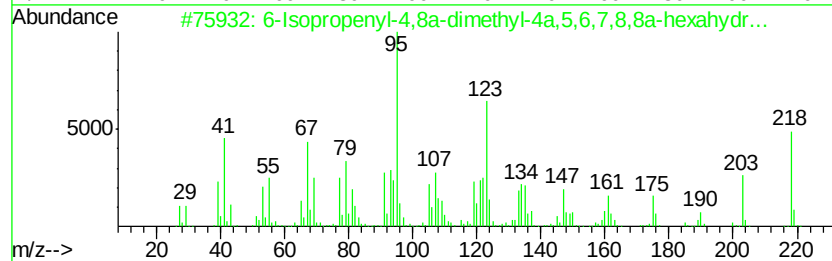
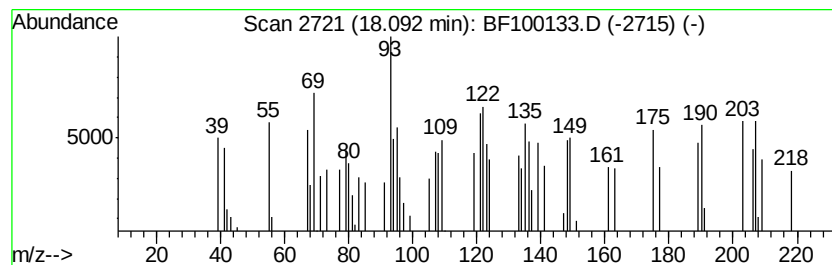
Instrument :  
BNA\_F  
ClientSampleId :  
BOXWOOD-DR-2-4-12-14

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.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 unknown18.09 Concentration Rank 7

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 18.09   | 2.38 ng                             | 51483        | Perylene-d12     | 15.41     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 6-Isopropenyl-4,8a-dimethyl-4a,5... | 218 C15H22O  | 086917-79-5      | 35        |
| 2       | Spiro[4.5]dec-6-en-1-ol, 2,6,10,... | 208 C14H24O  | 1000197-15-1     | 30        |
| 3       | Benzaldehyde, 4-(trifluoromethoxy)- | 190 C8H5F3O2 | 000659-28-9      | 27        |
| 4       | 1,3-Cyclopentadiene, 2,3,4,5-tet... | 190 C14H22   | 1000161-28-7     | 25        |
| 5       | Hexahydroindole                     | 123 C8H13N   | 018159-32-5      | 18        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110317\  
Data File : BF100133.D  
Acq On : 3 Nov 2017 14:40  
Operator : SJ/JU  
Sample : I6258-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BOXWOOD-DR-2-4-12-14

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102317.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... | 4.99  | 14.1    | ng    | 325667   | 1                     | 6.77  | 462350 | 20.0 |
| unknown6.55          | 6.55  | 87.2    | ng    | 2015740  | 1                     | 6.77  | 462350 | 20.0 |
| n-Hexadecanoic acid  | 11.81 | 4.6     | ng    | 181398   | 4                     | 11.30 | 790745 | 20.0 |
| n-Tetracosanol-1     | 13.75 | 7.9     | ng    | 270489   | 5                     | 13.95 | 687625 | 20.0 |
| Hentriacontane       | 15.77 | 2.0     | ng    | 43307    | 6                     | 15.41 | 432161 | 20.0 |
| unknown18.09         | 18.09 | 2.4     | ng    | 51483    | 6                     | 15.41 | 432161 | 20.0 |