

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
 Data File : BF085805.D  
 Acq On : 28 Mar 2016 16:57  
 Operator : UM/SJ  
 Sample : H1941-02  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-8

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-BF032416.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         | 4.333       | 178           | 179         | 183          | rBV      | 24887          | 35579         | 1.16%           | 0.119%        |
| 2         | 4.996       | 234           | 237         | 245          | rBV      | 964225         | 1415887       | 46.32%          | 4.721%        |
| 3         | 5.418       | 271           | 274         | 277          | rBV      | 2562494        | 2634701       | 86.20%          | 8.785%        |
| 4         | 5.819       | 307           | 309         | 312          | rBV      | 154862         | 134993        | 4.42%           | 0.450%        |
| 5         | 6.367       | 355           | 357         | 362          | rBV      | 50481          | 65549         | 2.14%           | 0.219%        |
| 6         | 6.459       | 362           | 365         | 367          | rBV      | 2594363        | 3056577       | 100.00%         | 10.191%       |
| 7         | 6.584       | 373           | 376         | 378          | rBV      | 2947976        | 2813165       | 92.04%          | 9.380%        |
| 8         | 6.813       | 394           | 396         | 399          | rBV      | 757507         | 650991        | 21.30%          | 2.171%        |
| 9         | 6.973       | 407           | 410         | 412          | rBV      | 2584422        | 2386763       | 78.09%          | 7.958%        |
| 10        | 7.384       | 443           | 446         | 448          | rBV      | 2015998        | 2043554       | 66.86%          | 6.814%        |
| 11        | 7.476       | 452           | 454         | 461          | rVB      | 21125          | 35618         | 1.17%           | 0.119%        |
| 12        | 8.104       | 506           | 509         | 511          | rBV      | 765370         | 838933        | 27.45%          | 2.797%        |
| 13        | 9.179       | 600           | 603         | 606          | rBV      | 3111348        | 2871761       | 93.95%          | 9.575%        |
| 14        | 9.579       | 635           | 638         | 639          | rBV      | 499420         | 513572        | 16.80%          | 1.712%        |
| 15        | 9.785       | 652           | 656         | 659          | rBV2     | 83118          | 115064        | 3.76%           | 0.384%        |
| 16        | 9.853       | 660           | 662         | 665          | rVB      | 1019166        | 914555        | 29.92%          | 3.049%        |
| 17        | 10.025      | 673           | 677         | 678          | rBV      | 20695          | 34341         | 1.12%           | 0.115%        |
| 18        | 10.288      | 698           | 700         | 702          | rVB      | 147470         | 116465        | 3.81%           | 0.388%        |
| 19        | 10.505      | 717           | 719         | 723          | rBV      | 38998          | 64055         | 2.10%           | 0.214%        |
| 20        | 10.642      | 728           | 731         | 734          | rBV2     | 1617864        | 1913998       | 62.62%          | 6.382%        |
| 21        | 10.756      | 740           | 741         | 746          | rBV      | 106215         | 144808        | 4.74%           | 0.483%        |
| 22        | 11.202      | 779           | 780         | 782          | rBV      | 37160          | 50956         | 1.67%           | 0.170%        |
| 23        | 11.339      | 790           | 792         | 794          | rBV      | 1039312        | 892672        | 29.20%          | 2.976%        |
| 24        | 11.865      | 837           | 838         | 841          | rBV      | 114007         | 178021        | 5.82%           | 0.594%        |
| 25        | 12.425      | 883           | 887         | 889          | rBV      | 55866          | 63627         | 2.08%           | 0.212%        |
| 26        | 12.573      | 896           | 900         | 904          | rBV3     | 16467          | 32804         | 1.07%           | 0.109%        |
| 27        | 12.653      | 904           | 907         | 913          | rVV2     | 39785          | 67036         | 2.19%           | 0.224%        |
| 28        | 12.928      | 928           | 931         | 933          | rBV      | 2440814        | 2789800       | 91.27%          | 9.302%        |
| 29        | 13.294      | 961           | 963         | 968          | rVB      | 474627         | 449228        | 14.70%          | 1.498%        |
| 30        | 13.659      | 992           | 995         | 998          | rBV4     | 13889          | 32892         | 1.08%           | 0.110%        |
| 31        | 13.716      | 998           | 1000        | 1002         | rBV      | 96677          | 97114         | 3.18%           | 0.324%        |
| 32        | 13.819      | 1006          | 1009        | 1017         | rVB      | 198090         | 251719        | 8.24%           | 0.839%        |
| 33        | 13.968      | 1020          | 1022        | 1025         | rVB      | 526418         | 615132        | 20.12%          | 2.051%        |
| 34        | 14.082      | 1031          | 1032        | 1034         | rBV      | 27846          | 32514         | 1.06%           | 0.108%        |

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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

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-BF032416.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.128 | 1034 | 1036 | 1041 | rVB2 | 42222  | 75070  | 2.46%  | 0.250% |
| 36 | 14.311 | 1049 | 1052 | 1060 | rVB3 | 55223  | 92932  | 3.04%  | 0.310% |
| 37 | 14.459 | 1060 | 1065 | 1070 | rBV4 | 25057  | 56533  | 1.85%  | 0.188% |
| 38 | 14.814 | 1094 | 1096 | 1098 | rVB  | 40604  | 56685  | 1.85%  | 0.189% |
| 39 | 15.122 | 1118 | 1123 | 1128 | rVB6 | 32293  | 101079 | 3.31%  | 0.337% |
| 40 | 15.385 | 1144 | 1146 | 1149 | rBV  | 344728 | 506208 | 16.56% | 1.688% |
| 41 | 15.797 | 1180 | 1182 | 1186 | rVB2 | 15783  | 30751  | 1.01%  | 0.103% |
| 42 | 15.877 | 1186 | 1189 | 1192 | rVV3 | 14631  | 42553  | 1.39%  | 0.142% |
| 43 | 15.968 | 1194 | 1197 | 1200 | rVV2 | 92476  | 157463 | 5.15%  | 0.525% |
| 44 | 16.071 | 1204 | 1206 | 1216 | rVB6 | 26935  | 72905  | 2.39%  | 0.243% |
| 45 | 16.380 | 1230 | 1233 | 1236 | rVB  | 30551  | 55550  | 1.82%  | 0.185% |
| 46 | 17.305 | 1310 | 1314 | 1320 | rBV6 | 46471  | 161815 | 5.29%  | 0.540% |
| 47 | 17.968 | 1367 | 1372 | 1380 | rVB  | 49361  | 127324 | 4.17%  | 0.425% |
| 48 | 18.254 | 1393 | 1397 | 1403 | rBV3 | 22573  | 55894  | 1.83%  | 0.186% |
| 49 | 18.368 | 1403 | 1407 | 1415 | rVB6 | 11926  | 44370  | 1.45%  | 0.148% |

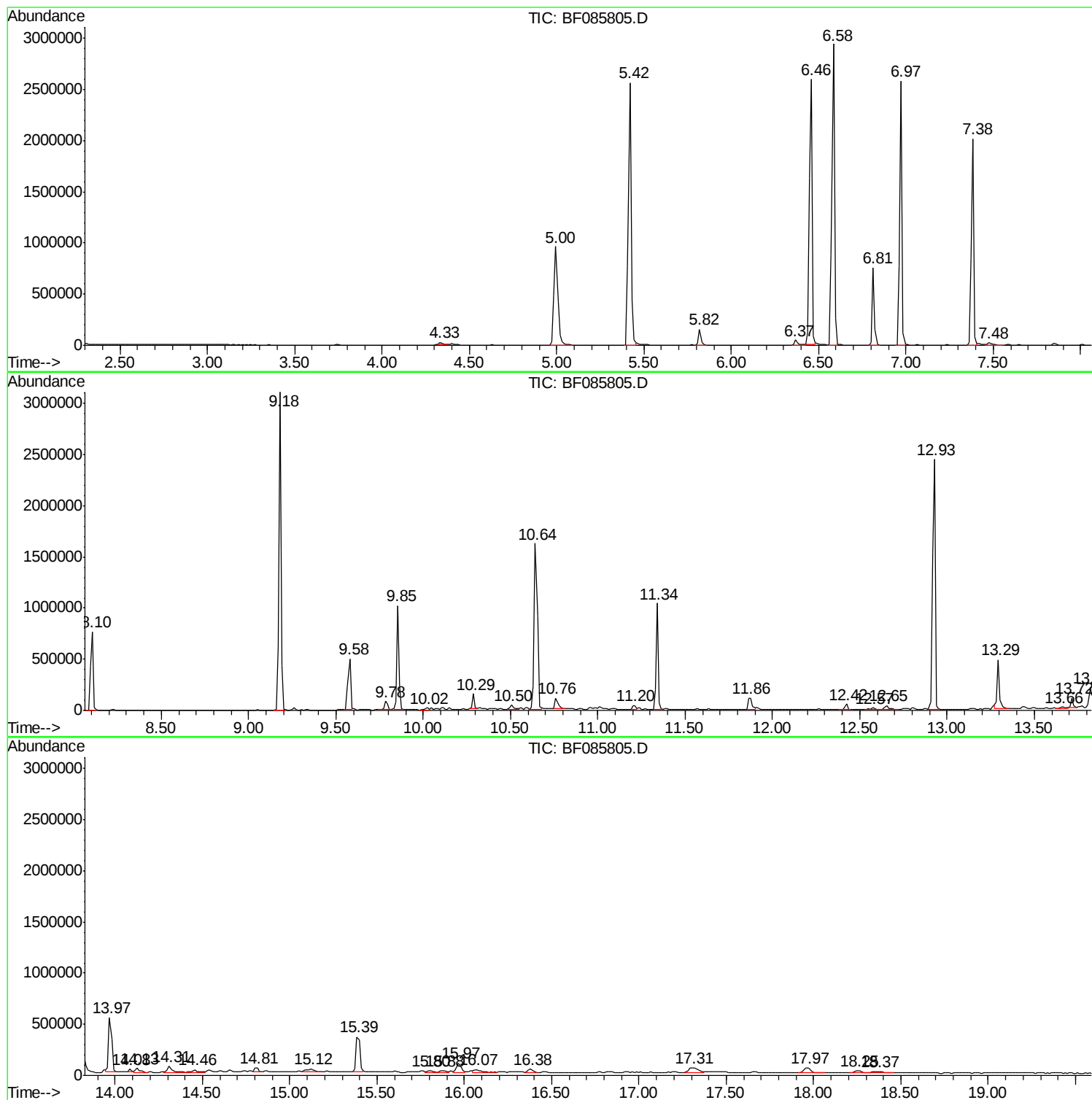
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Instrument :  
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SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

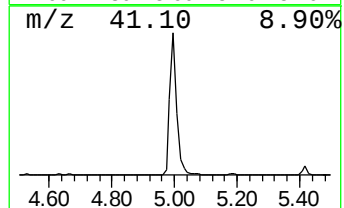
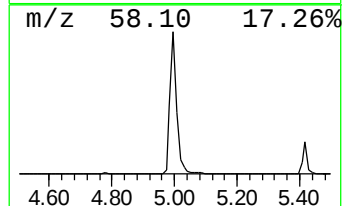
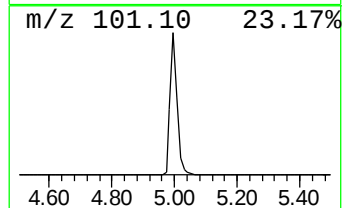
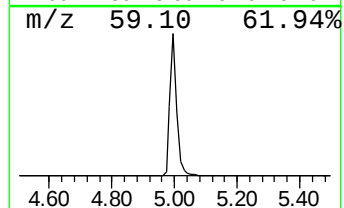
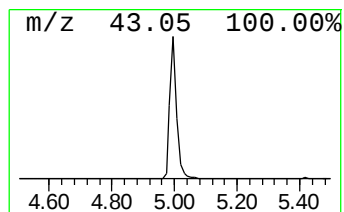
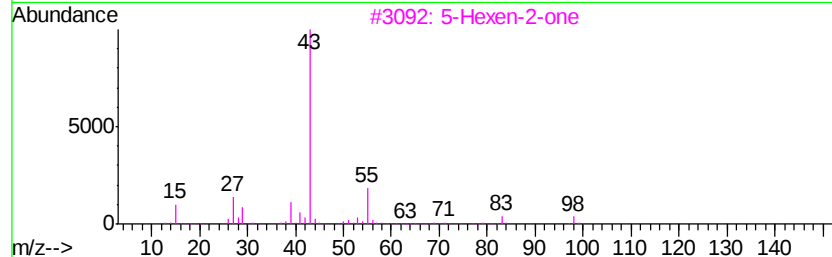
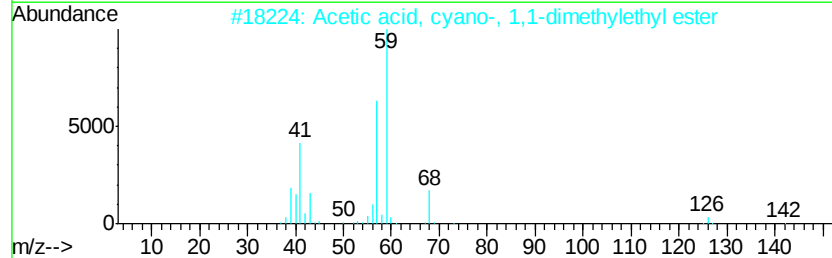
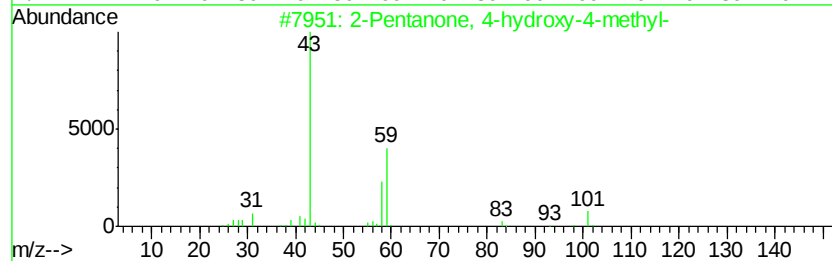
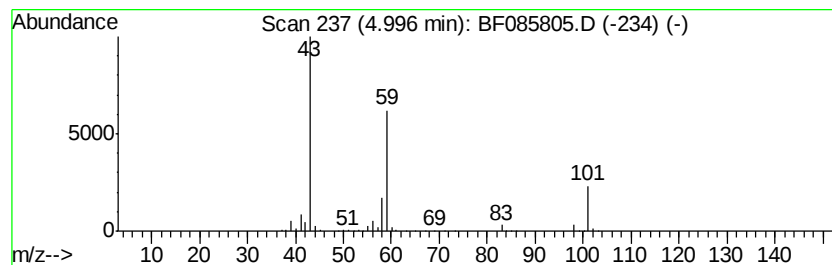
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.00 | 43.50 ng | 1415890 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    |   | 5-Hexen-2-one                       | 98  | C6H10O   | 000109-49-9 | 9    |
| 4    |    |   | Butane, 1-ethoxy-                   | 102 | C6H14O   | 000628-81-9 | 9    |
| 5    |    |   | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

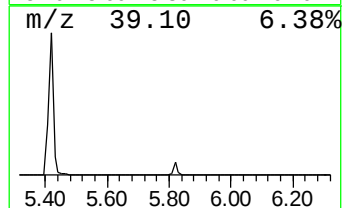
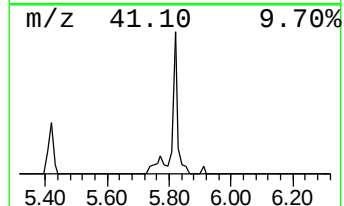
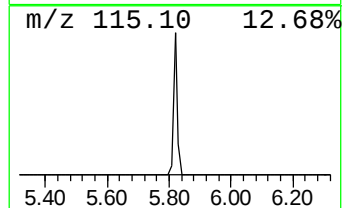
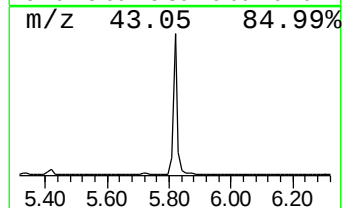
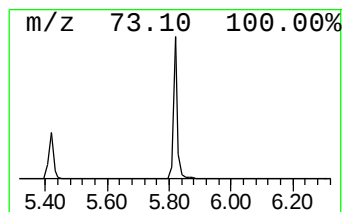
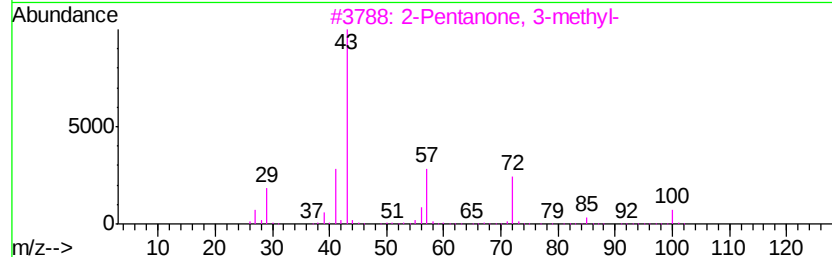
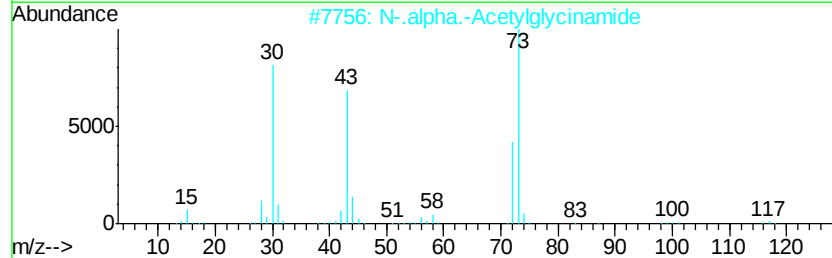
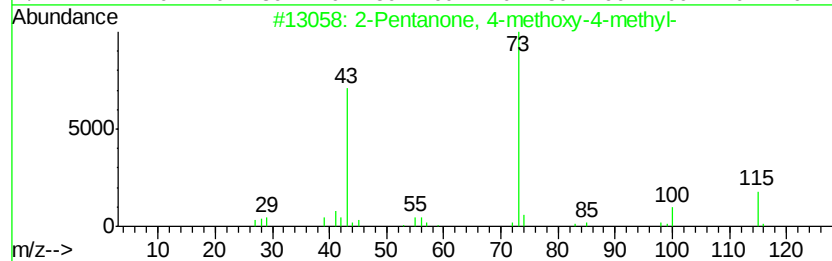
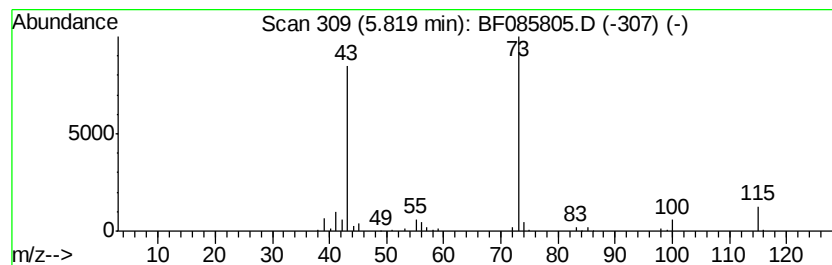
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-methoxy-4-me... Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.82 | 4.15 ng | 134993 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# | of | Tentative ID                      | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-methoxy-4-methyl-  | 130 | C7H14O2  | 000107-70-0 | 83   |
| 2    |    | N-.alpha.-Acetylglycinamide       | 116 | C4H8N2O2 | 002620-63-5 | 33   |
| 3    |    | 2-Pentanone, 3-methyl-            | 100 | C6H12O   | 000565-61-7 | 27   |
| 4    |    | Pentane, 3-methoxy-               | 102 | C6H14O   | 036839-67-5 | 12   |
| 5    |    | 1,3-Dioxolane, 2-(1-methylethyl)- | 116 | C6H12O2  | 000822-83-3 | 10   |



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ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

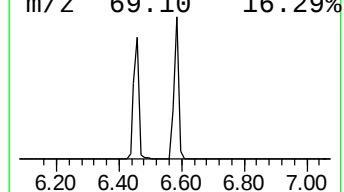
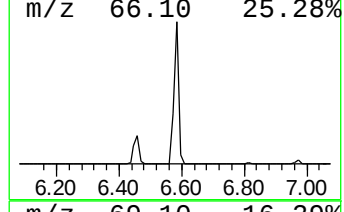
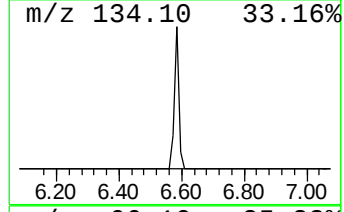
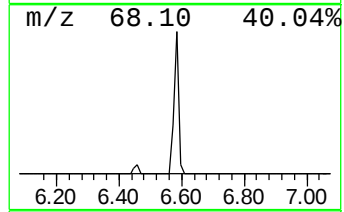
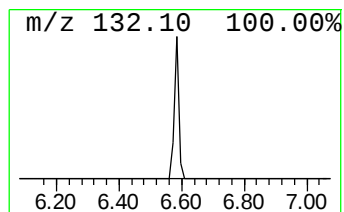
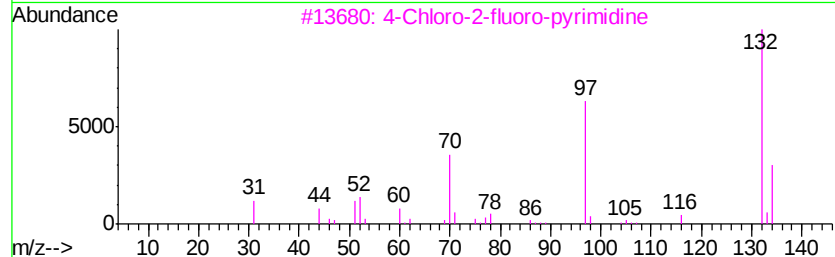
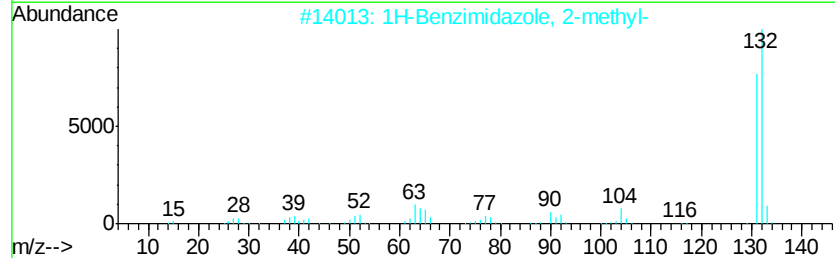
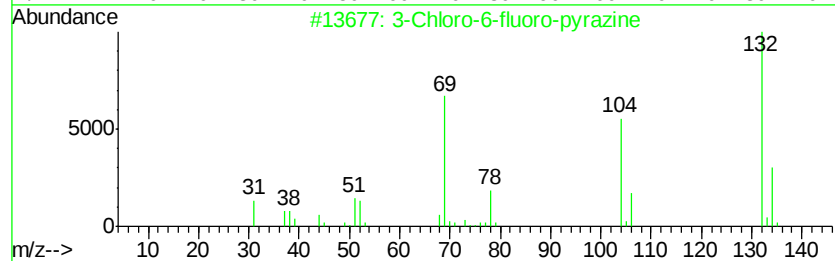
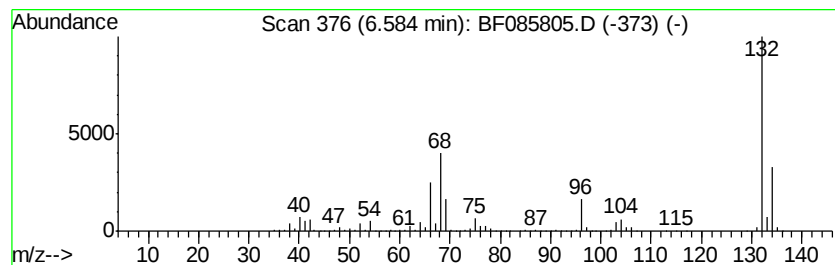
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.58 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.58 | 86.43 ng | 2813170 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# | of | Tentative ID                   | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine     | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 1H-Benzimidazole, 2-methyl-    | 132 | C8H8N2    | 000615-15-6  | 10   |
| 3    |    | 4-Chloro-2-fluoro-pyrimidine   | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 4    |    | 5-Fluoro-2-chloropyrimidine    | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2    | 064608-59-9  | 9    |



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SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

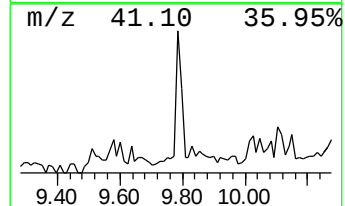
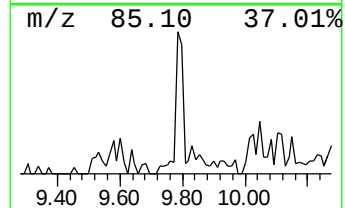
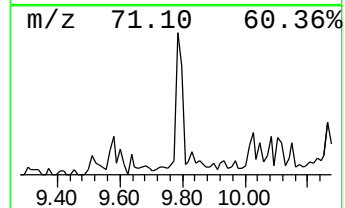
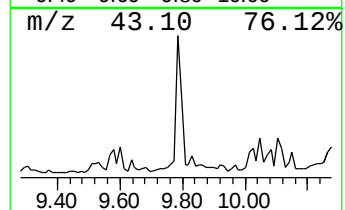
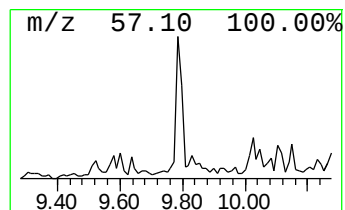
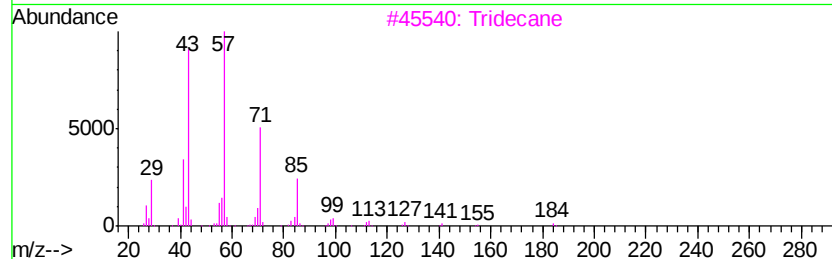
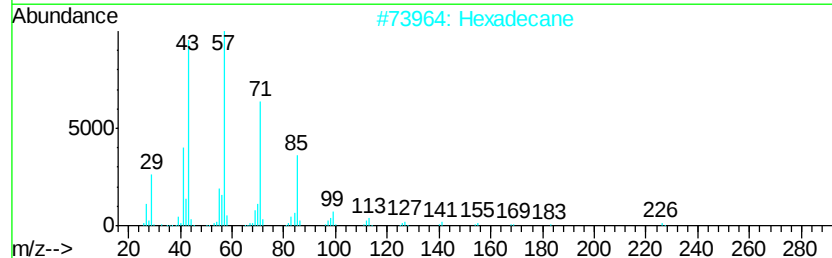
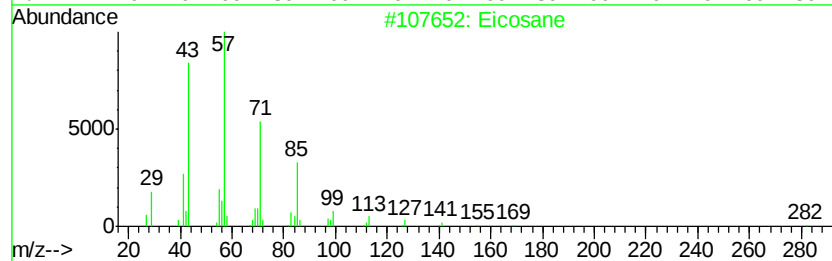
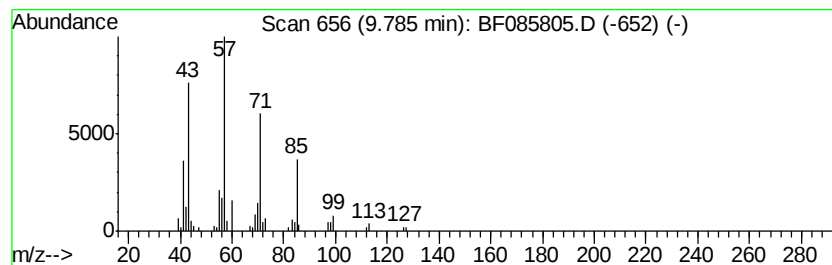
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Eicosane Concentration Rank 17

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.78 | 2.52 ng | 115064 | Acenaphthene-d10 | 9.85 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 72   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 72   |
| 3       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 64   |
| 4       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 64   |
| 5       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

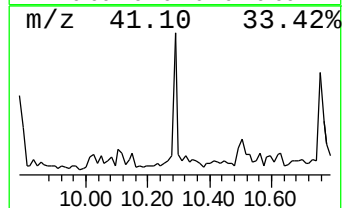
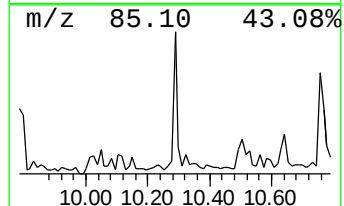
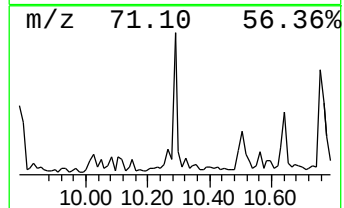
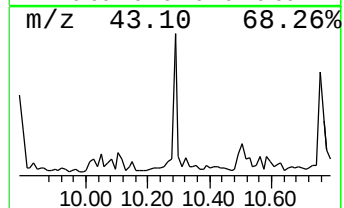
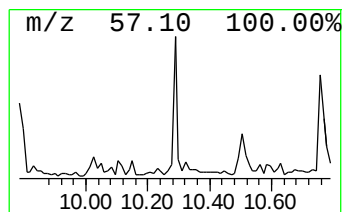
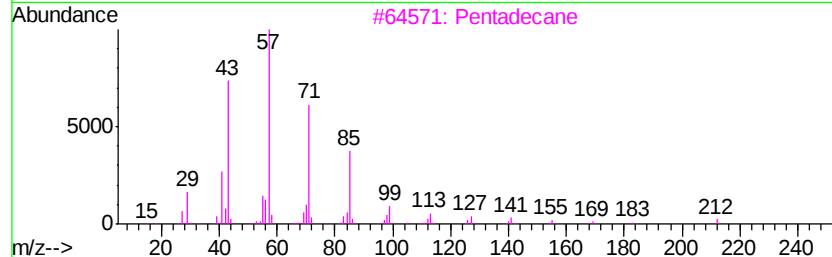
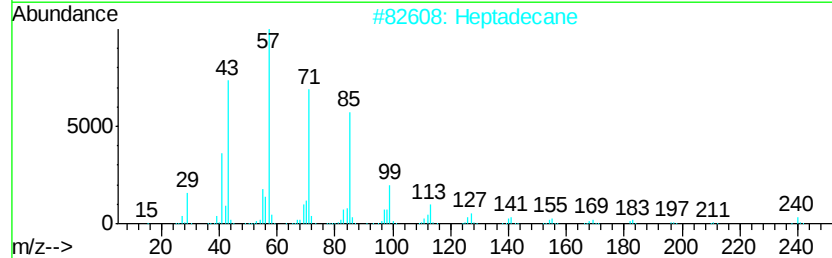
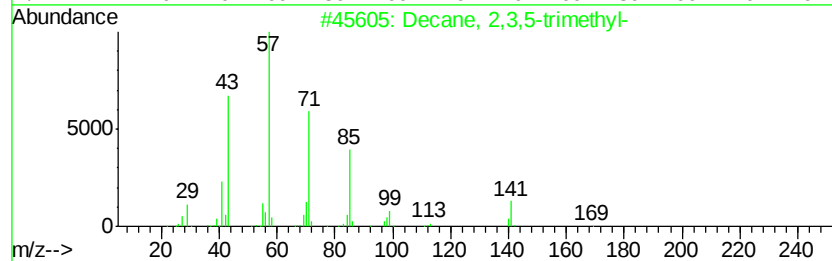
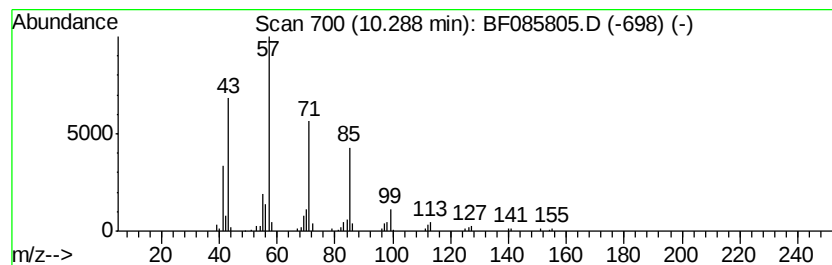
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Decane, 2,3,5-trimethyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.29 | 2.55 ng | 116465 | Acenaphthene-d10 | 9.85 |

| Hit# | of | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------|-----|----------|-------------|------|
| 1    | 5  | Decane, 2,3,5-trimethyl- | 184 | C13H28   | 062238-11-3 | 90   |
| 2    |    | Heptadecane              | 240 | C17H36   | 000629-78-7 | 90   |
| 3    |    | Pentadecane              | 212 | C15H32   | 000629-62-9 | 78   |
| 4    |    | Tetradecane              | 198 | C14H30   | 000629-59-4 | 72   |
| 5    |    | Decane, 3-bromo-         | 220 | C10H21Br | 030571-71-2 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

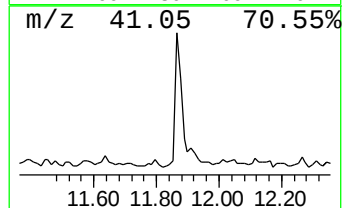
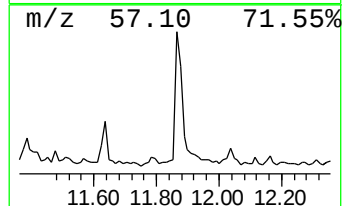
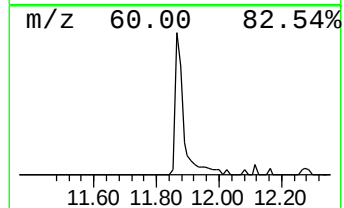
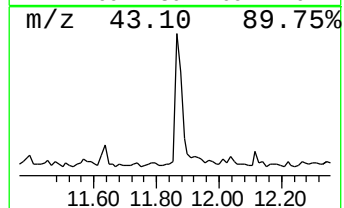
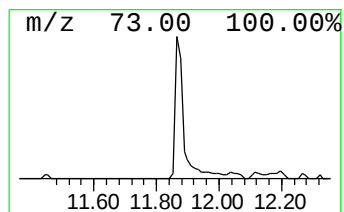
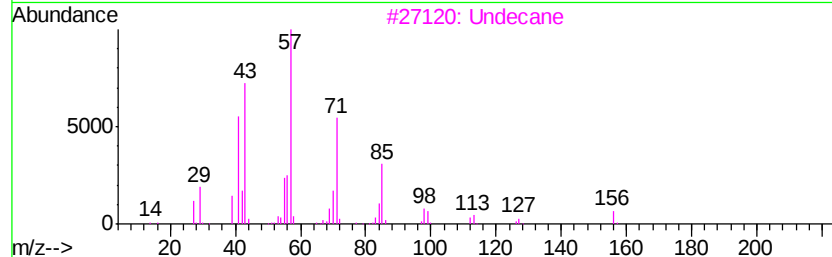
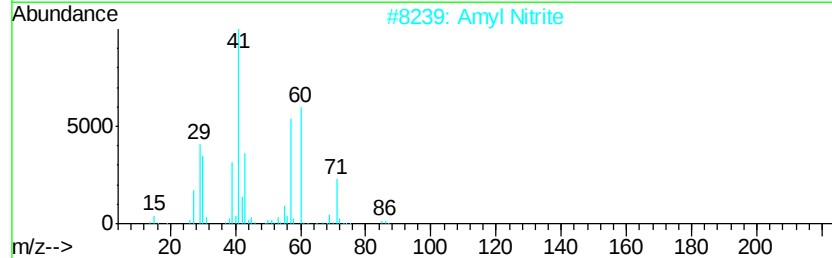
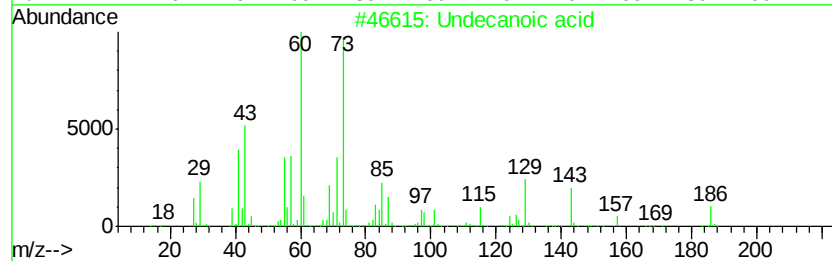
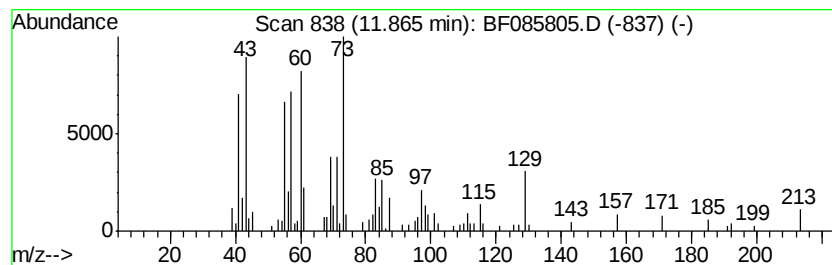
Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Undecanoic acid Concentration Rank 11

| R.T.    | EstConc                 | Area         | Relative to ISTD |          | R.T.        |      |
|---------|-------------------------|--------------|------------------|----------|-------------|------|
| 11.86   | 3.99 ng                 | 178021       | Phenanthrene-d10 |          | 11.34       |      |
| Hit# of | 5                       | Tentative ID | MW               | MolForm  | CAS#        | Qual |
| 1       | Undecanoic acid         |              | 186              | C11H22O2 | 000112-37-8 | 43   |
| 2       | Amyl Nitrite            |              | 117              | C5H11NO2 | 000110-46-3 | 38   |
| 3       | Undecane                |              | 156              | C11H24   | 001120-21-4 | 11   |
| 4       | 1-Tetradecanol, acetate |              | 256              | C16H32O2 | 000638-59-5 | 11   |
| 5       | Heptadecane, 2-methyl-  |              | 254              | C18H38   | 001560-89-0 | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
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Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

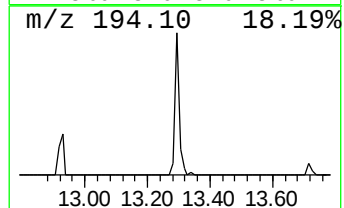
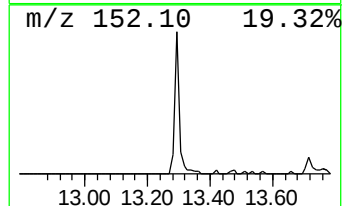
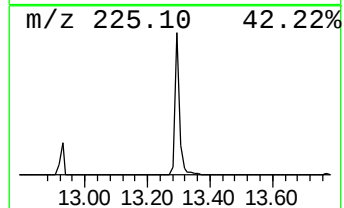
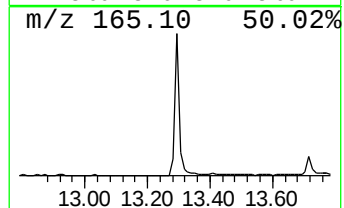
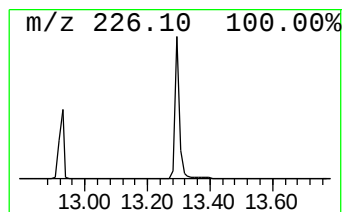
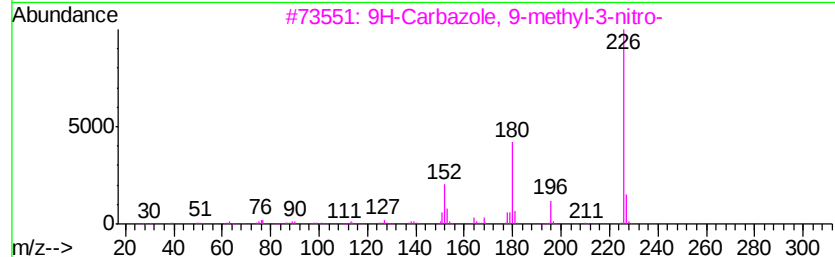
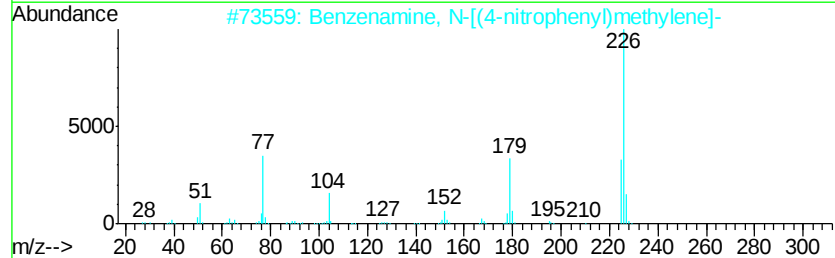
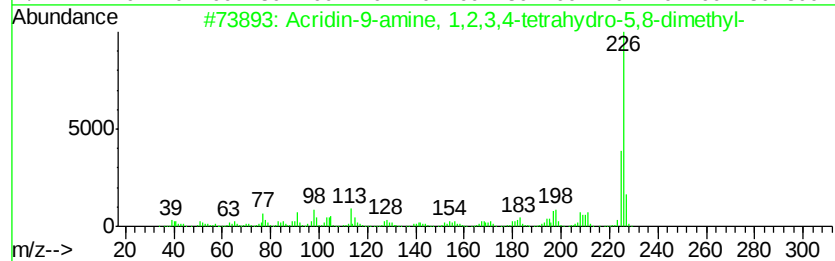
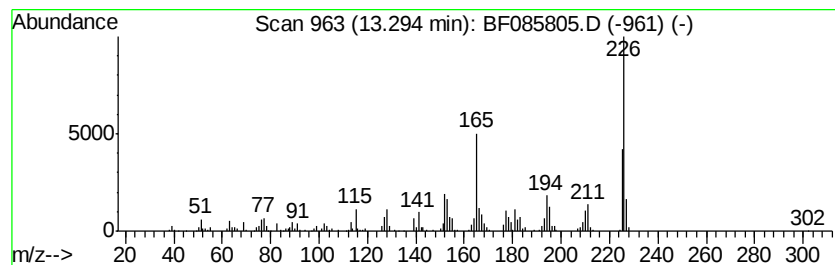
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Acridin-9-amine, 1,2,3,4-te... Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.29 | 14.61 ng | 449228 | Chrysene-d12     | 13.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Acridin-9-amine, 1,2,3,4-tetrahy... | 226 | C15H18N2   | 297758-19-1  | 64   |
| 2    |    | Benzenamine, N-[(4-nitrophenyl)m... | 226 | C13H10N2O2 | 000785-80-8  | 46   |
| 3    |    | 9H-Carbazole, 9-methyl-3-nitro-     | 226 | C13H10N2O2 | 061166-05-0  | 45   |
| 4    |    | 1-Ethyl-4-methoxy-9H-pyrido[3,4-... | 226 | C14H14N2O  | 026585-14-8  | 43   |
| 5    |    | 2-Furfurylidene-7-hydroxy-1-inda... | 226 | C14H10O3   | 1000244-80-4 | 41   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
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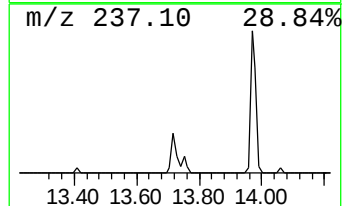
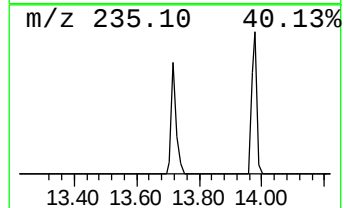
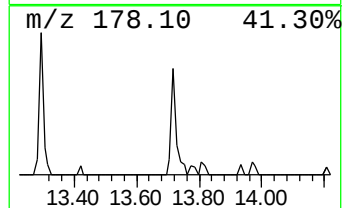
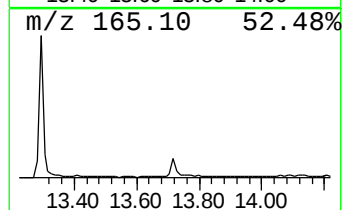
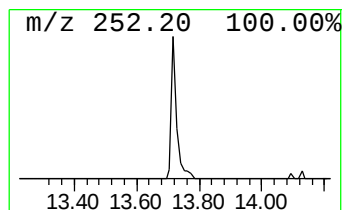
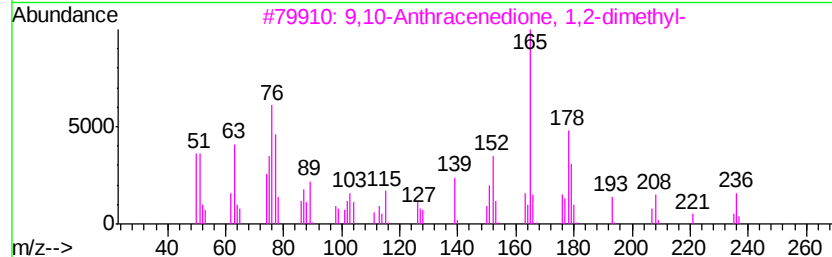
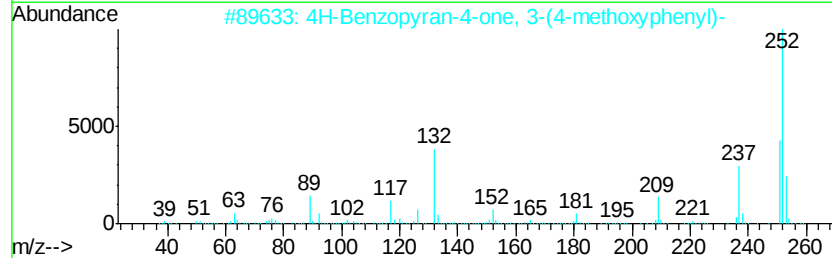
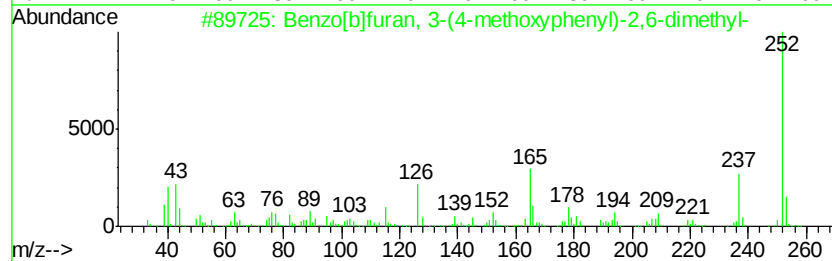
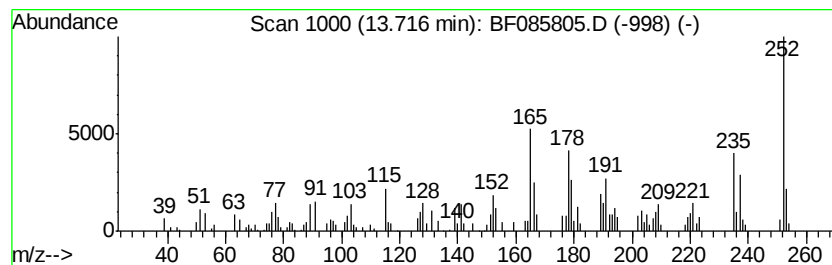
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown13.72 Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.72 | 3.16 ng | 97114 | Chrysene-d12     | 13.97 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Benzo[b]furan, 3-(4-methoxypheny... | 252 | C17H16O2 | 074228-98-1 | 47   |
| 2    |    |   | 4H-Benzopyran-4-one, 3-(4-methox... | 252 | C16H12O3 | 001621-58-5 | 46   |
| 3    |    |   | 9,10-Anthracenedione, 1,2-dimethyl- | 236 | C16H12O2 | 003285-98-1 | 44   |
| 4    |    |   | 2-Propenoic acid, 3-(4-phenylphe... | 252 | C17H16O2 | 040795-99-1 | 43   |
| 5    |    |   | Adamantane-2,6-dione, bis(ethyle... | 252 | C14H20O4 | 060797-89-9 | 42   |



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Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

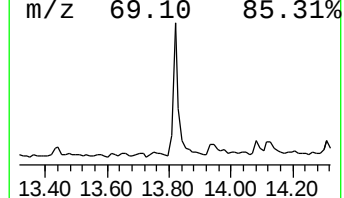
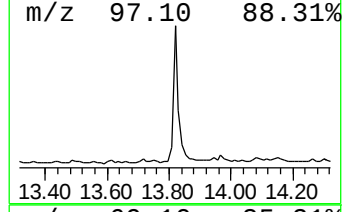
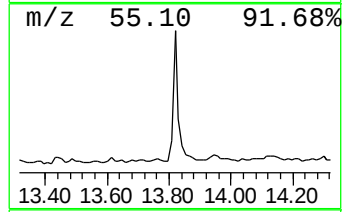
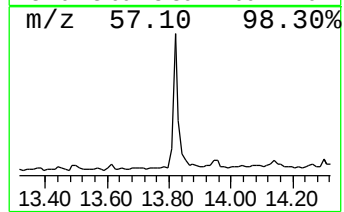
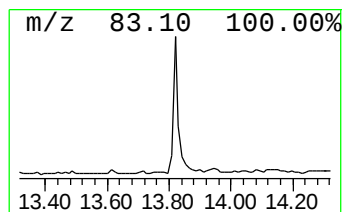
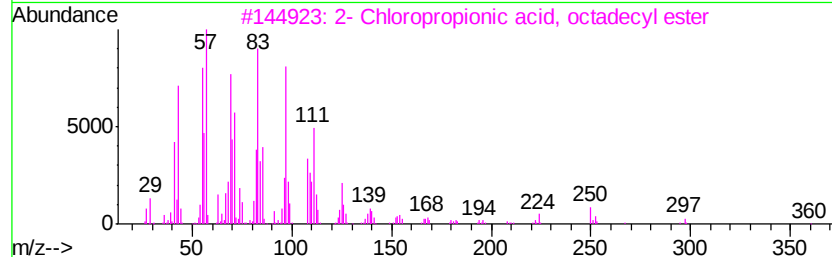
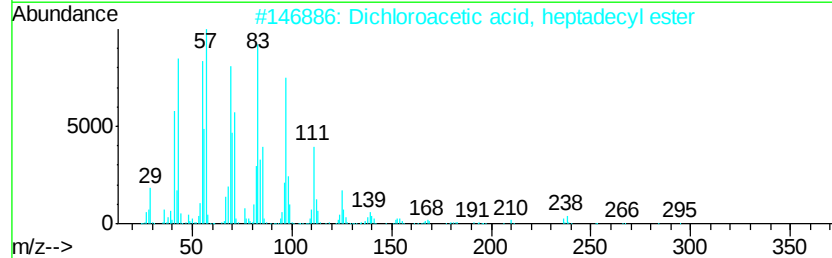
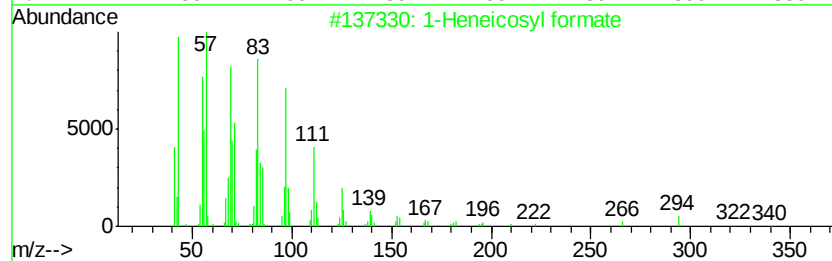
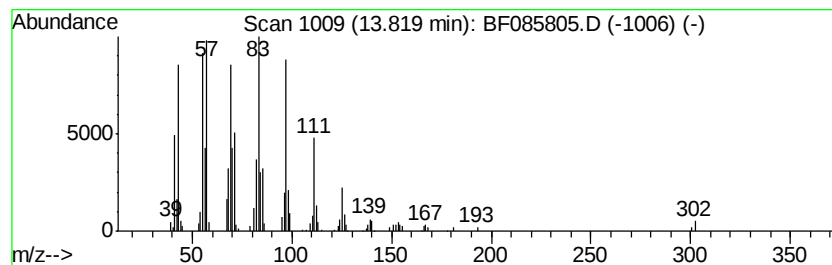
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 1-Heneicosyl formate Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.82 | 8.18 ng | 251719 | Chrysene-d12     | 13.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 1-Heneicosyl formate                | 340 | C22H44O2    | 077899-03-7  | 95   |
| 2    |    | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 95   |
| 3    |    | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2  | 088104-31-8  | 94   |
| 4    |    | 1-Nonadecanol                       | 284 | C19H40O     | 001454-84-8  | 93   |
| 5    |    | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5  | 91   |



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Acq On : 28 Mar 2016 16:57  
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

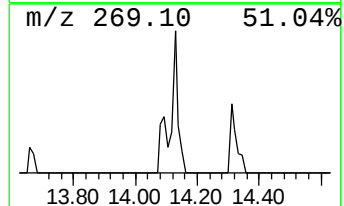
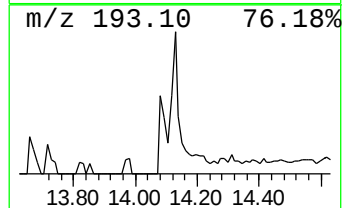
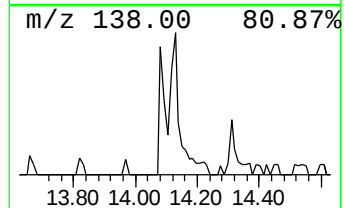
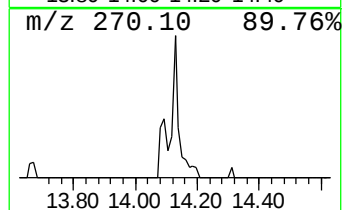
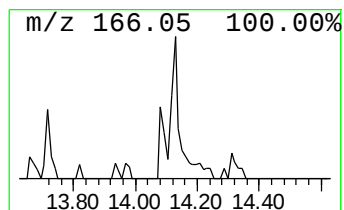
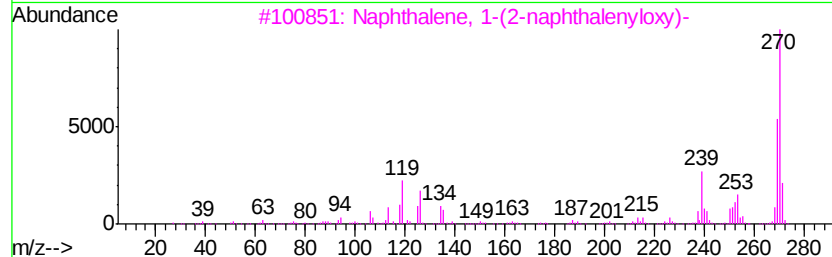
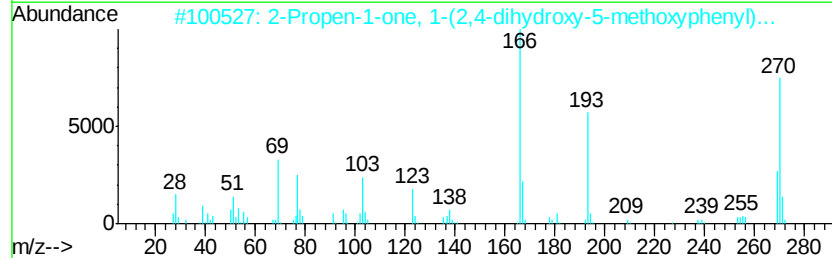
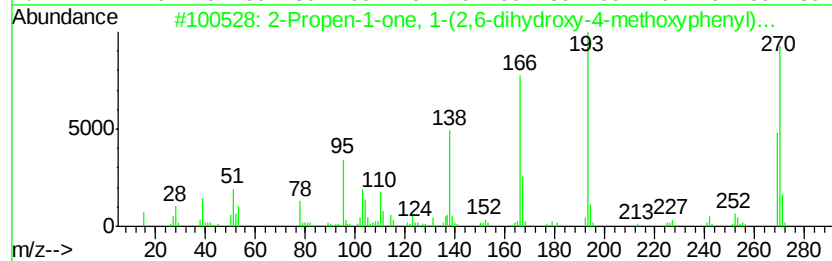
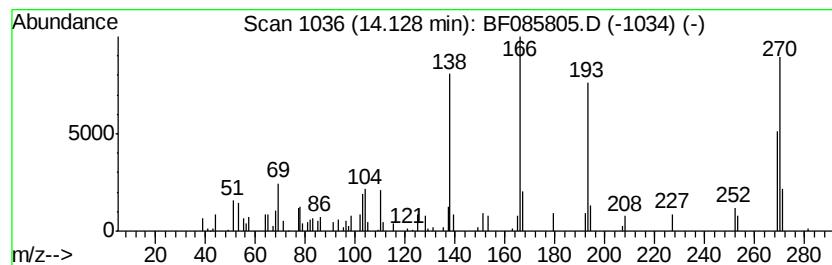
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 2-Propen-1-one, 1-(2,6-dihy... Concentration Rank 18

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.13 | 2.44 ng | 75070 | Chrysene-d12     | 13.97 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | 2-Propen-1-one, 1-(2,6-dihydroxy... | 270 | C16H14O4   | 018956-15-5 | 58   |
| 2    |    |   | 2-Propen-1-one, 1-(2,4-dihydroxy... | 270 | C16H14O4   | 028143-82-0 | 53   |
| 3    |    |   | Naphthalene, 1-(2-naphthalenyloxy)- | 270 | C20H14O    | 000611-49-4 | 22   |
| 4    |    |   | Benzene, 1,2-methylenedioxy-4-(3... | 270 | C14H10N2O4 | 191595-07-0 | 22   |
| 5    |    |   | 4-(6-Isopropyl-4-methyl-1-naphth... | 270 | C18H22O2   | 094265-06-2 | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
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Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

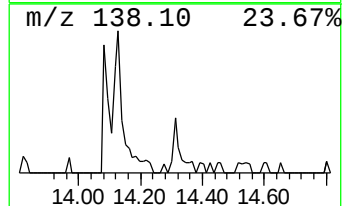
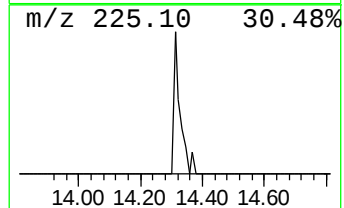
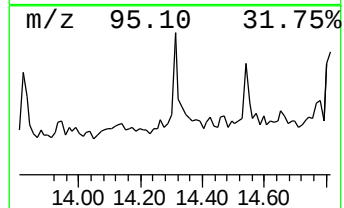
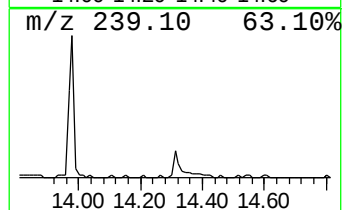
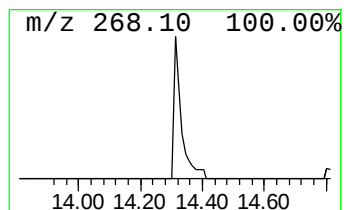
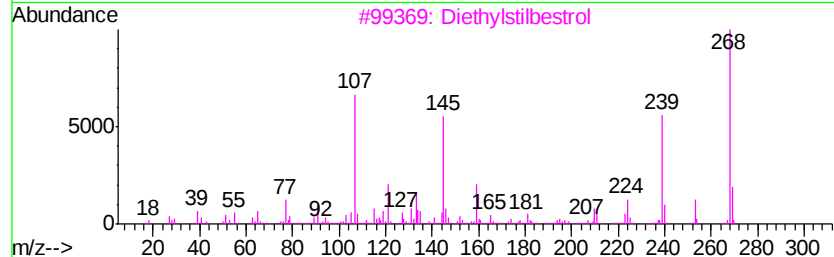
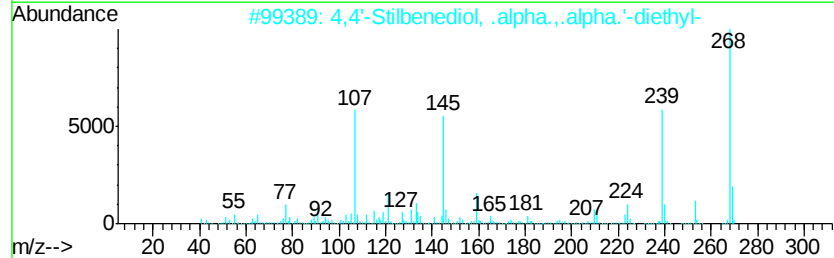
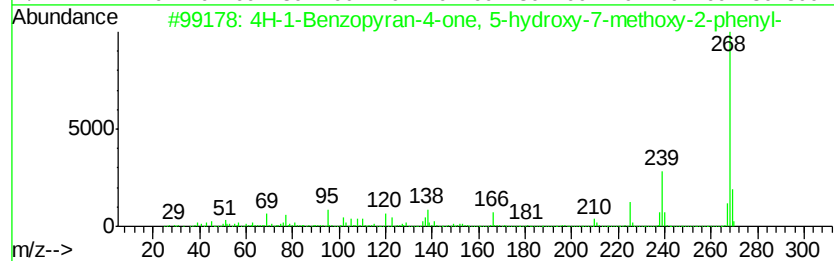
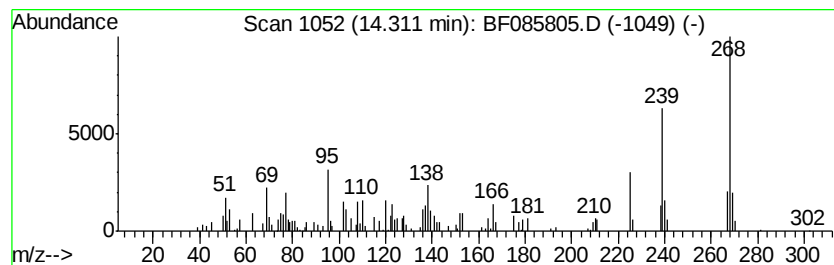
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 4H-1-Benzopyran-4-one, 5-hy... Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.31 | 3.02 ng | 92932 | Chrysene-d12     | 13.97 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | 4H-1-Benzopyran-4-one, 5-hydroxy... | 268 | C16H12O4 | 000520-28-5 | 91   |
| 2       |   | 4,4'-Stilbenediol, .alpha.,.alph... | 268 | C18H20O2 | 006898-97-1 | 52   |
| 3       |   | Diethylstilbestrol                  | 268 | C18H20O2 | 000056-53-1 | 52   |
| 4       |   | Dinaphtho[2,1-b:1',2'-d]furan       | 268 | C20H12O  | 000194-63-8 | 50   |
| 5       |   | N4,N4'-Dipropyl-biphenyl-4,4'-di... | 268 | C18H24N2 | 017576-22-6 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

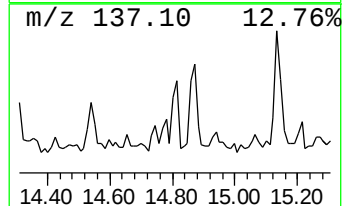
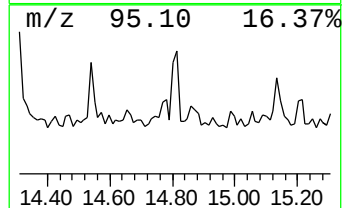
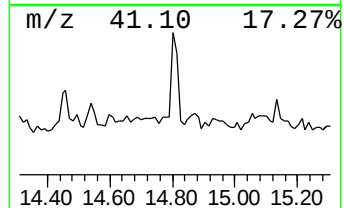
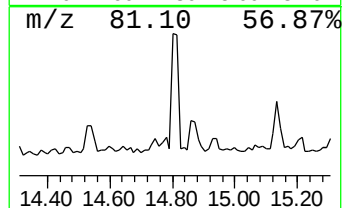
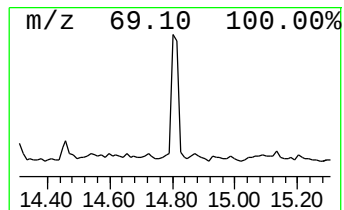
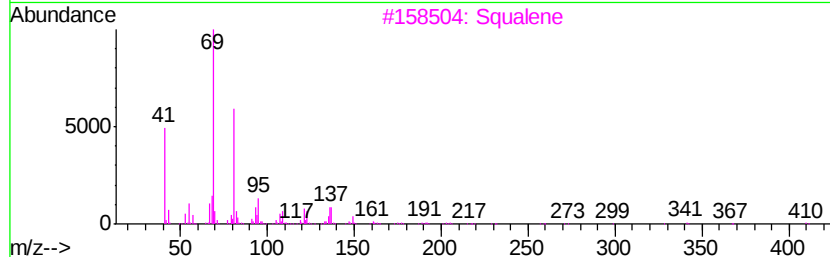
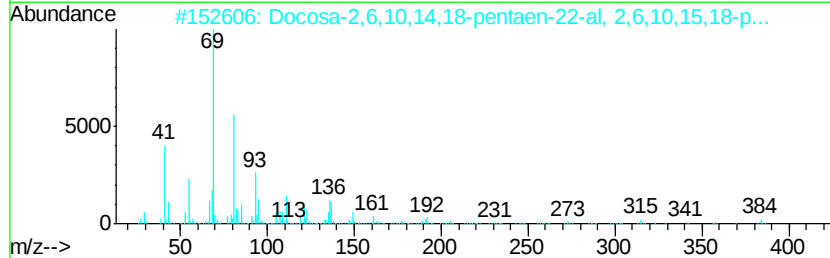
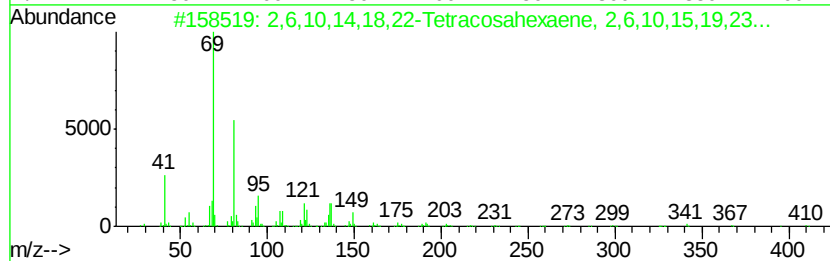
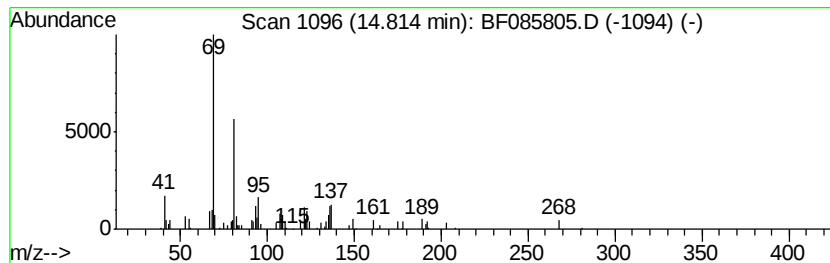
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 2,6,10,14,18,22-Tetracosae... Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.81 | 2.24 ng | 56685 | Perylene-d12     | 15.40 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50       | 000111-02-4  | 87      |      |      |
| 2    | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O      | 1000163-04-7 | 86      |      |      |
| 3    | Squalene                            | 410 | C30H50       | 007683-64-9  | 83      |      |      |
| 4    | 4,9,13,17-Tetramethyl-4,8,12,16-... | 316 | C22H36O      | 056882-09-8  | 80      |      |      |
| 5    | Hexadeca-2,6,10,14-tetraen-1-ol,... | 290 | C20H34O      | 007614-21-3  | 72      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

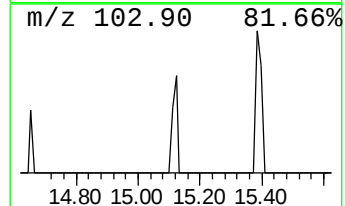
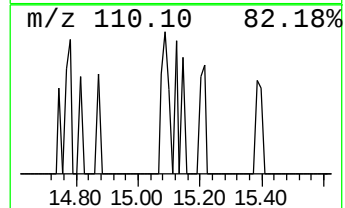
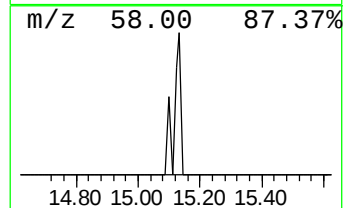
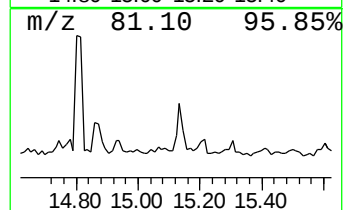
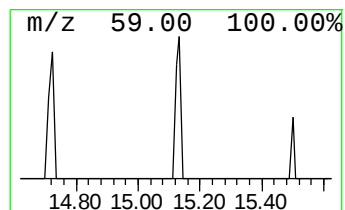
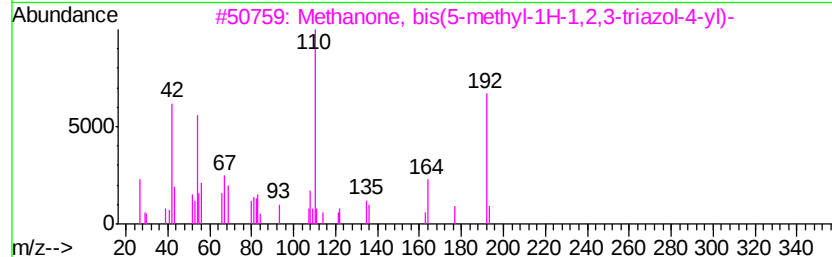
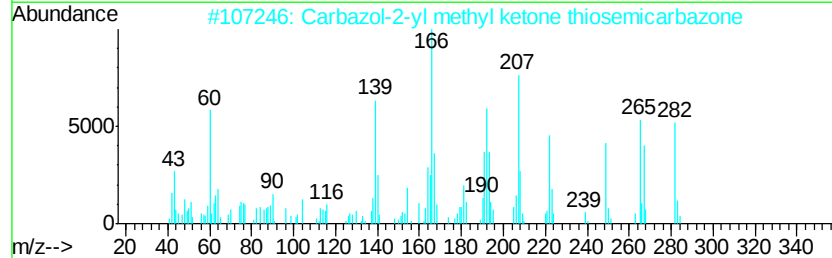
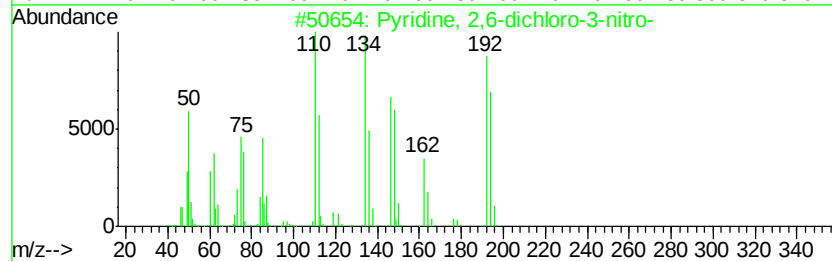
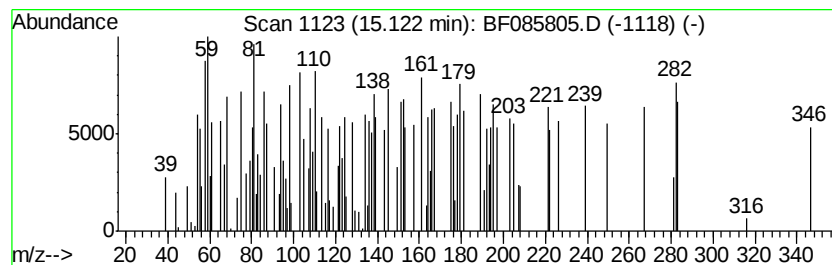
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 unknown15.12 Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.12 | 3.99 ng | 101079 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Pyridine, 2,6-dichloro-3-nitro-     | 192 | C5H2Cl2N2O2 | 016013-85-7  | 25   |
| 2    |    | Carbazol-2-yl methyl ketone thio... | 282 | C15H14N4S   | 1000254-48-4 | 22   |
| 3    |    | Methanone, bis(5-methyl-1H-1,2,3... | 192 | C7H8N6O     | 051719-73-4  | 11   |
| 4    |    | Phenanthrene, 9,10-dihydro-1-met... | 194 | C15H14      | 095676-48-5  | 11   |
| 5    |    | 1-Oxaspiro[2.5]octane, 4,4-dimet... | 194 | C13H22O     | 054345-65-2  | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

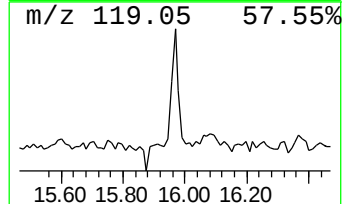
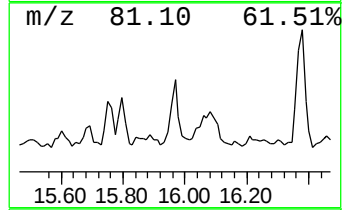
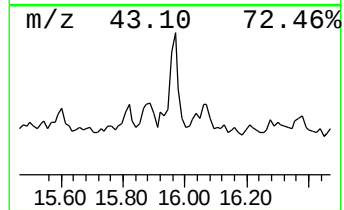
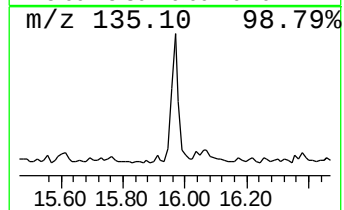
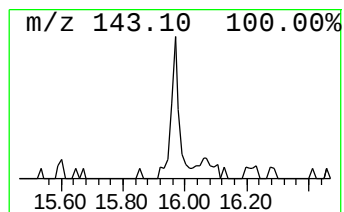
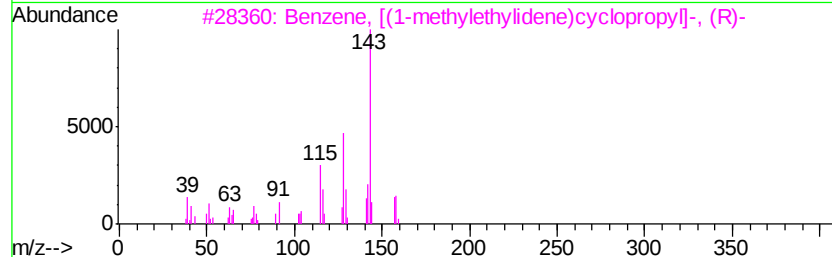
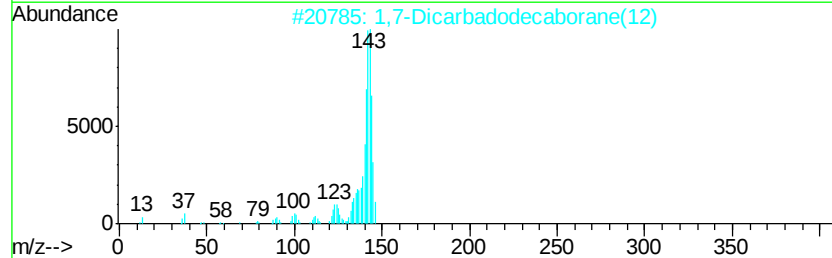
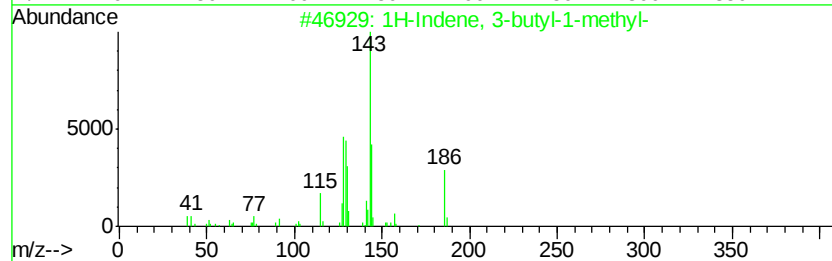
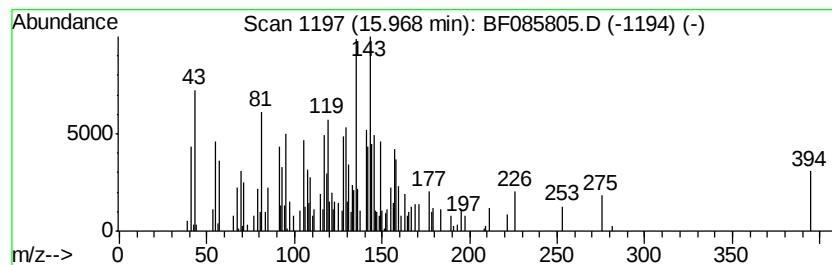
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 unknown15.97 Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.97 | 6.22 ng | 157463 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1H-Indene, 3-butyl-1-methyl-        | 186 | C14H18   | 111400-84-1 | 27   |
| 2    |    | 1,7-Dicarbadoecaborane(12)          | 146 | C2H12B10 | 016986-24-6 | 25   |
| 3    |    | Benzene, [(1-methylethylidene)cy... | 158 | C12H14   | 024524-55-8 | 22   |
| 4    |    | Quinoline, 5-methyl-                | 143 | C10H9N   | 007661-55-4 | 18   |
| 5    |    | Quinoline, 6-methyl-                | 143 | C10H9N   | 000091-62-3 | 18   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

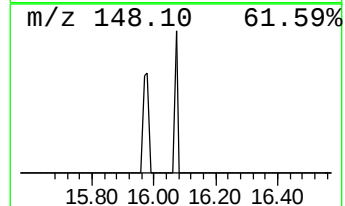
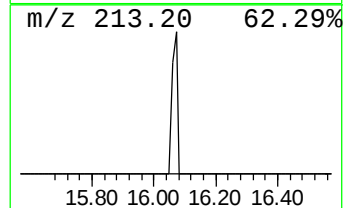
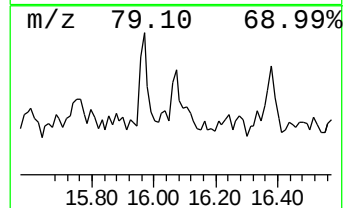
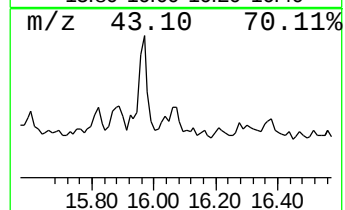
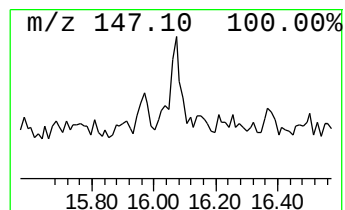
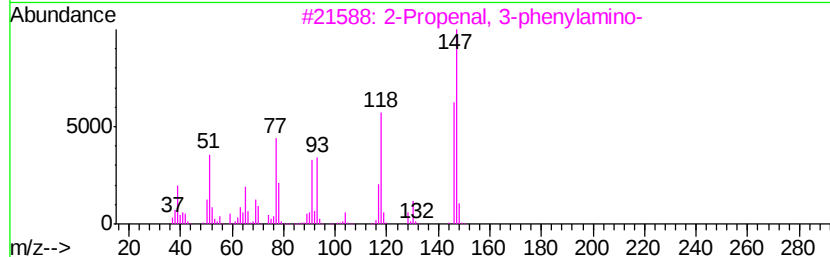
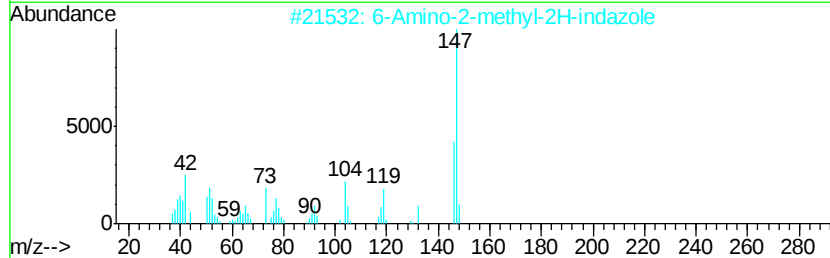
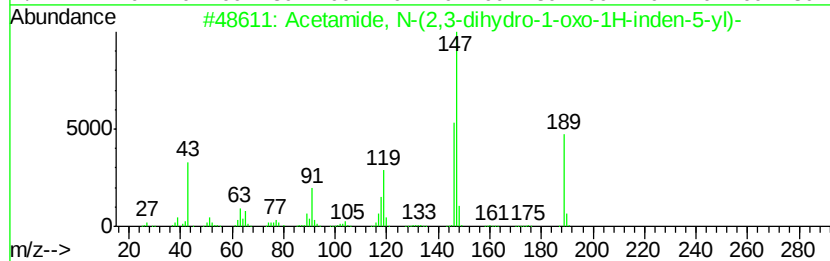
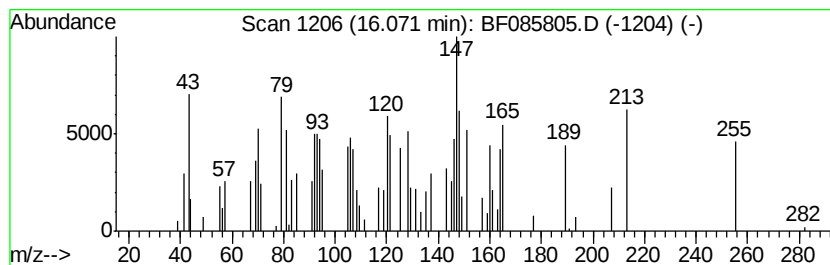
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown16.07 Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.07 | 2.88 ng | 72905 | Perylene-d12     | 15.40 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Acetamide, N-(2,3-dihydro-1-oxo-... | 189 | C11H11N02 | 058161-35-6  | 22   |
| 2    |    |   | 6-Amino-2-methyl-2H-indazole        | 147 | C8H9N3    | 050593-30-1  | 9    |
| 3    |    |   | 2-Propenal, 3-phenylamino-          | 147 | C9H9NO    | 025299-39-2  | 9    |
| 4    |    |   | Pyridine, 3,5-dichloro-             | 147 | C5H3Cl2N  | 002457-47-8  | 9    |
| 5    |    |   | 1-(2'-Hydroxy-5'-methylphenyl)-1... | 165 | C9H11NO2  | 1000146-89-9 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

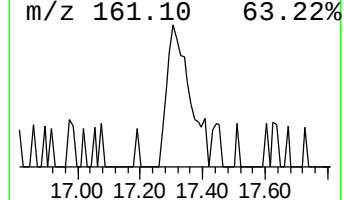
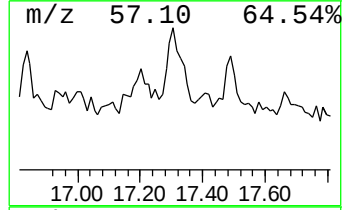
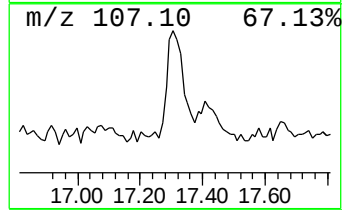
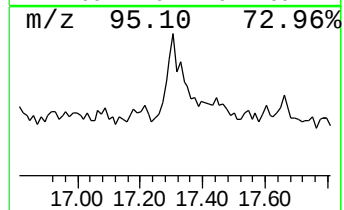
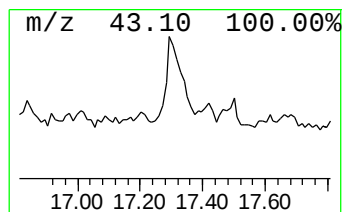
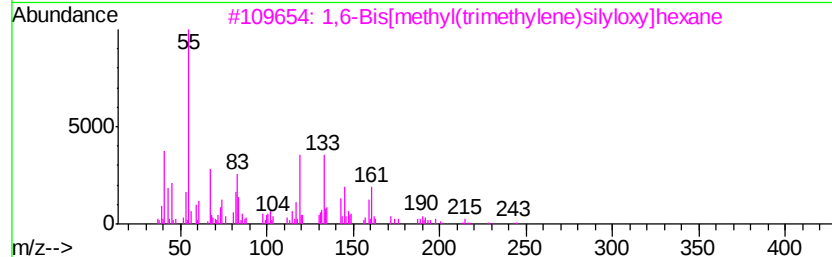
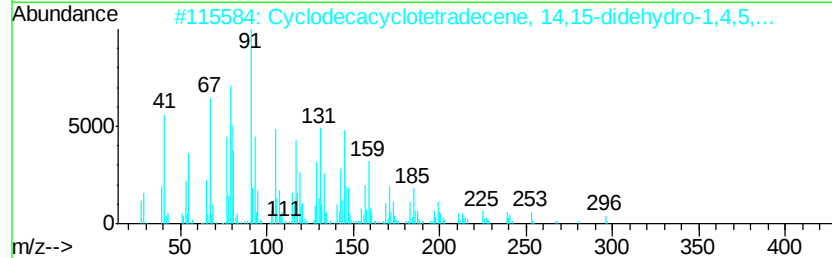
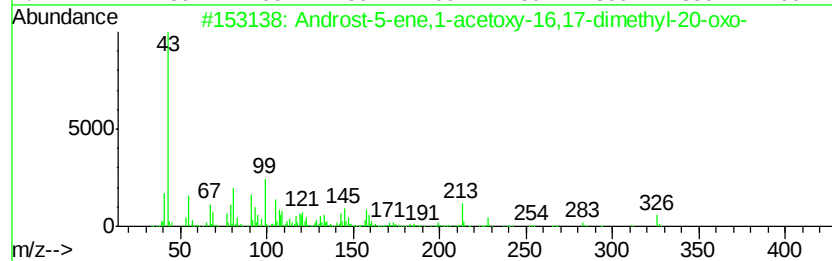
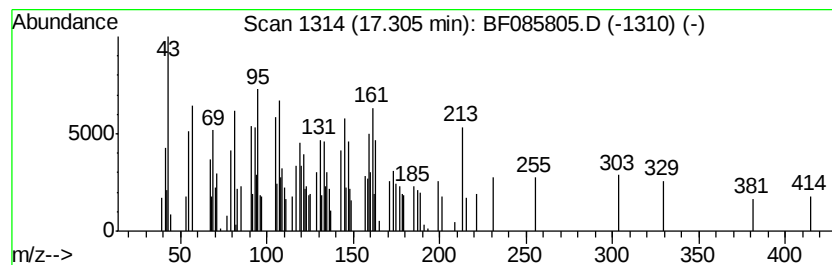
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown17.31 Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.31 | 6.39 ng | 161815 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                          | MW  | MolForm       | CAS#         | Qual |
|------|----|---------------------------------------|-----|---------------|--------------|------|
| 1    | 5  | Androst-5-ene,1-acetoxy-16,17-di...   | 386 | C25H38O3      | 294866-91-4  | 35   |
| 2    |    | Cyclodecacyclotetradecene, 14,15...   | 296 | C22H32        | 014113-61-2  | 22   |
| 3    |    | 1,6-Bis[methyl(trimethylene)silyl]... | 286 | C14H30O2Si2   | 1000217-00-5 | 17   |
| 4    |    | 3-(3,7-Dimethyl-octa-2,6-dienyl)...   | 258 | C17H22O2      | 1000192-28-0 | 10   |
| 5    |    | N-(3-Chloro-4-fluoro-phenyl)-2-(...   | 329 | C14H10Cl2FNOS | 1000295-12-7 | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

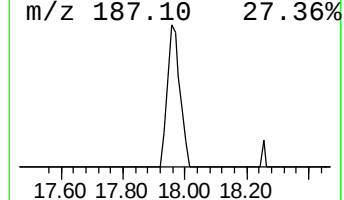
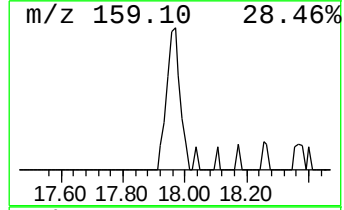
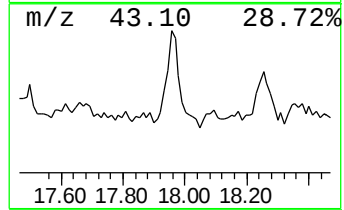
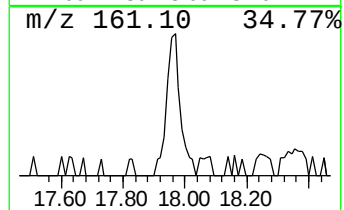
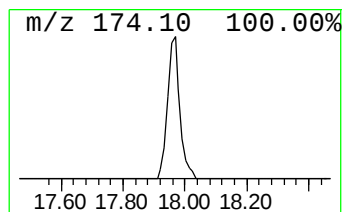
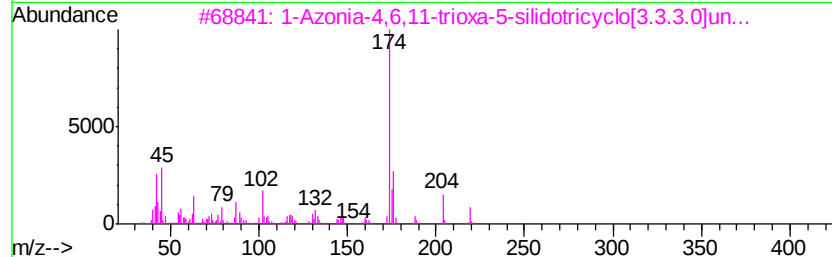
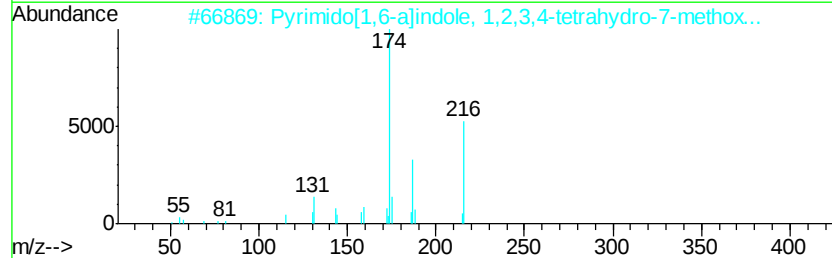
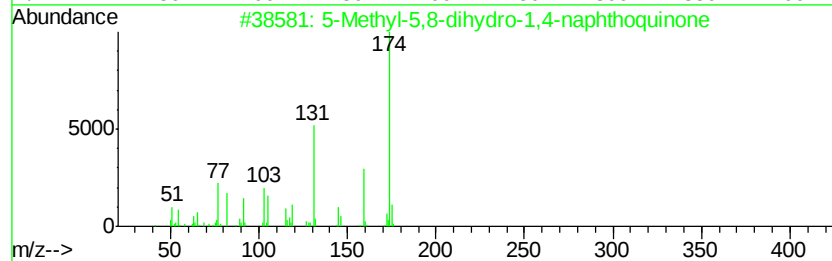
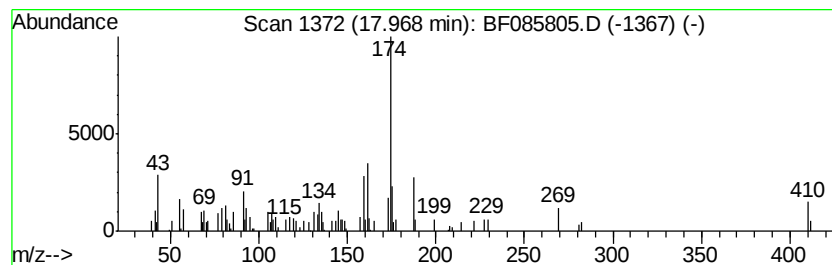
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown17.97 Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.97 | 5.03 ng | 127324 | Perylene-d12     | 15.40 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 5-Methyl-5,8-dihydro-1,4-naphtho... | 174 | C11H10O2     | 086759-40-2 | 43      |      |      |
| 2    | Pyrimido[1,6-a]indole, 1,2,3,4-t... | 216 | C13H16N2O    | 038349-09-6 | 43      |      |      |
| 3    | 1-Azonia-4,6,11-trioxa-5-silidot... | 219 | C8H17N04Si   | 349498-09-5 | 38      |      |      |
| 4    | 6-Indolizinecarboxamide, 2-methyl-  | 174 | C10H10N2O    | 022380-20-7 | 35      |      |      |
| 5    | 8-Amino-6-methoxyquinoline          | 174 | C10H10N2O    | 000090-52-8 | 32      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
Data File : BF085805.D  
Acq On : 28 Mar 2016 16:57  
Operator : UM/SJ  
Sample : H1941-02  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

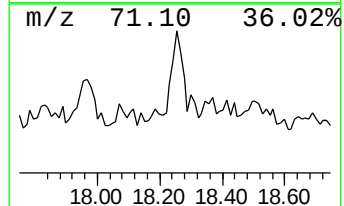
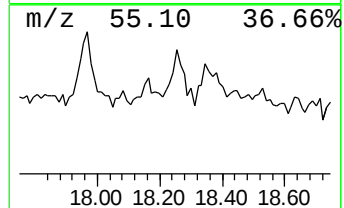
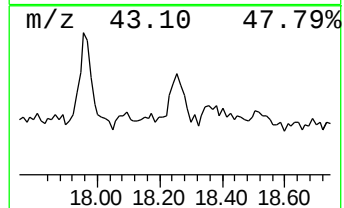
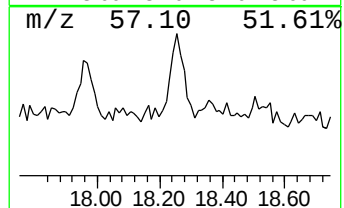
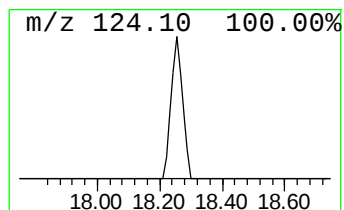
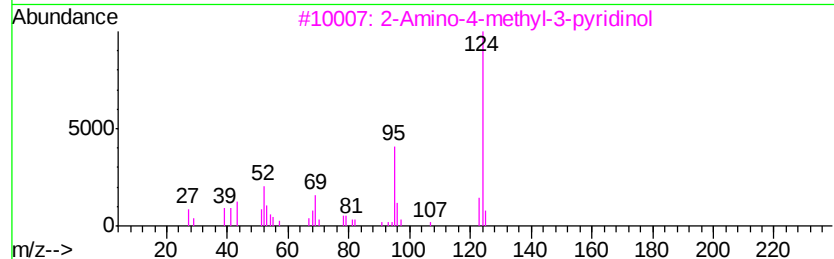
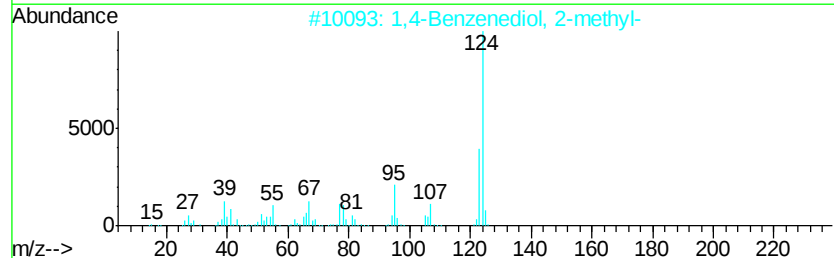
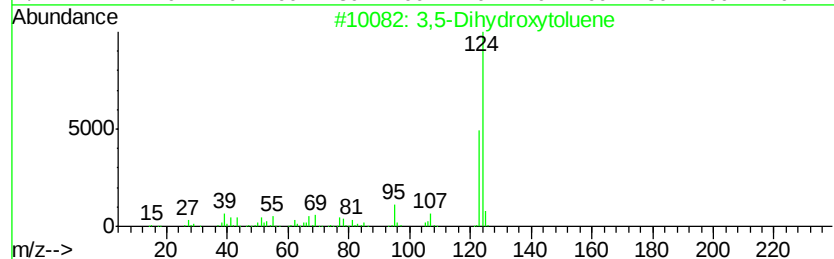
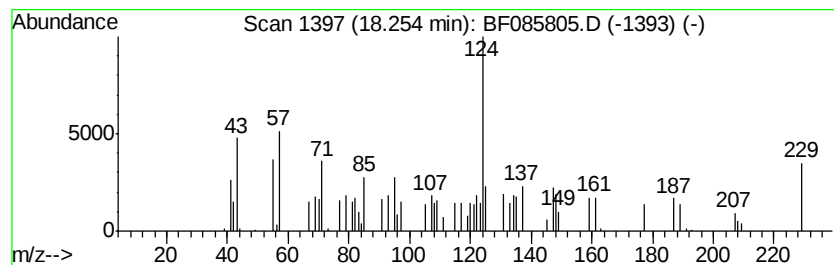
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown18.25 Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.25 | 2.21 ng | 55894 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 3,5-Dihydroxytoluene                | 124 | C7H8O2  | 000504-15-4  | 35   |
| 2    |    | 1,4-Benzenediol, 2-methyl-          | 124 | C7H8O2  | 000095-71-6  | 35   |
| 3    |    | 2-Amino-4-methyl-3-pyridinol        | 124 | C6H8N2O | 020348-18-9  | 35   |
| 4    |    | 4,5-Dimethyl-2-pyrimidone           | 124 | C6H8N2O | 034939-17-8  | 27   |
| 5    |    | Pyrazole, 3-methylaminomethyl-5-... | 153 | C8H15N3 | 1000262-50-0 | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032816\  
 Data File : BF085805.D  
 Acq On : 28 Mar 2016 16:57  
 Operator : UM/SJ  
 Sample : H1941-02  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-8

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.00  | 43.5    | ng    | 1415890  | 1                     | 6.81  | 650991 | 20.0 |
| 2-Pentanone, 4-me... | 5.82  | 4.2     | ng    | 134993   | 1                     | 6.81  | 650991 | 20.0 |
| unknown6.58          | 6.58  | 86.4    | ng    | 2813170  | 1                     | 6.81  | 650991 | 20.0 |
| Eicosane             | 9.78  | 2.5     | ng    | 115064   | 3                     | 9.85  | 914555 | 20.0 |
| Decane, 2,3,5-tri... | 10.29 | 2.5     | ng    | 116465   | 3                     | 9.85  | 914555 | 20.0 |
| Undecanoic acid      | 11.86 | 4.0     | ng    | 178021   | 4                     | 11.34 | 892672 | 20.0 |
| Acridin-9-amine, ... | 13.29 | 14.6    | ng    | 449228   | 5                     | 13.97 | 615132 | 20.0 |
| unknown13.72         | 13.72 | 3.2     | ng    | 97114    | 5                     | 13.97 | 615132 | 20.0 |
| 1-Heneicosyl formate | 13.82 | 8.2     | ng    | 251719   | 5                     | 13.97 | 615132 | 20.0 |
| 2-Propen-1-one, 1... | 14.13 | 2.4     | ng    | 75070    | 5                     | 13.97 | 615132 | 20.0 |
| 4H-1-Benzopyran-4... | 14.31 | 3.0     | ng    | 92932    | 5                     | 13.97 | 615132 | 20.0 |
| 2,6,10,14,18,22-T... | 14.81 | 2.2     | ng    | 56685    | 6                     | 15.40 | 506208 | 20.0 |
| unknown15.12         | 15.12 | 4.0     | ng    | 101079   | 6                     | 15.40 | 506208 | 20.0 |
| unknown15.97         | 15.97 | 6.2     | ng    | 157463   | 6                     | 15.40 | 506208 | 20.0 |
| unknown16.07         | 16.07 | 2.9     | ng    | 72905    | 6                     | 15.40 | 506208 | 20.0 |
| unknown17.31         | 17.31 | 6.4     | ng    | 161815   | 6                     | 15.40 | 506208 | 20.0 |
| unknown17.97         | 17.97 | 5.0     | ng    | 127324   | 6                     | 15.40 | 506208 | 20.0 |
| unknown18.25         | 18.25 | 2.2     | ng    | 55894    | 6                     | 15.40 | 506208 | 20.0 |