

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040418\  
 Data File : BF104256.D  
 Acq On : 5 Apr 2018 5:52  
 Operator : JU/SJ  
 Sample : J2202-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-014-A

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-BF032818.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         | 2.281       | 29            | 33          | 41           | rVB      | 121224         | 171967        | 5.03%           | 0.645%        |
| 2         | 5.198       | 525           | 529         | 539          | rBV      | 45268          | 87635         | 2.56%           | 0.329%        |
| 3         | 5.587       | 592           | 595         | 625          | rBV      | 1090490        | 2458213       | 71.90%          | 9.224%        |
| 4         | 6.592       | 762           | 766         | 785          | rBV      | 1220175        | 2594375       | 75.88%          | 9.735%        |
| 5         | 6.722       | 785           | 788         | 824          | rVV      | 1937312        | 3381731       | 98.91%          | 12.689%       |
| 6         | 6.951       | 824           | 827         | 849          | rVV      | 249649         | 747302        | 21.86%          | 2.804%        |
| 7         | 7.104       | 849           | 853         | 886          | rVB      | 1648658        | 2379972       | 69.61%          | 8.930%        |
| 8         | 7.516       | 920           | 923         | 945          | rBV      | 788791         | 1665225       | 48.70%          | 6.248%        |
| 9         | 7.663       | 945           | 948         | 955          | rVB2     | 37437          | 62004         | 1.81%           | 0.233%        |
| 10        | 8.233       | 1041          | 1045        | 1075         | rBV      | 458884         | 937447        | 27.42%          | 3.517%        |
| 11        | 9.298       | 1223          | 1226        | 1255         | rBV      | 2384848        | 3419098       | 100.00%         | 12.829%       |
| 12        | 9.692       | 1287          | 1293        | 1300         | rBV      | 137061         | 199370        | 5.83%           | 0.748%        |
| 13        | 9.892       | 1324          | 1327        | 1331         | rBV      | 73107          | 57781         | 1.69%           | 0.217%        |
| 14        | 9.986       | 1339          | 1343        | 1356         | rBV      | 834221         | 973865        | 28.48%          | 3.654%        |
| 15        | 10.392      | 1409          | 1412        | 1415         | rBV      | 90839          | 68423         | 2.00%           | 0.257%        |
| 16        | 10.786      | 1475          | 1479        | 1490         | rBV      | 1155841        | 1713979       | 50.13%          | 6.431%        |
| 17        | 10.863      | 1490          | 1492        | 1502         | rVB      | 89535          | 142565        | 4.17%           | 0.535%        |
| 18        | 11.486      | 1594          | 1598        | 1620         | rBV      | 562334         | 923496        | 27.01%          | 3.465%        |
| 19        | 11.986      | 1680          | 1683        | 1687         | rBV2     | 38853          | 50008         | 1.46%           | 0.188%        |
| 20        | 12.704      | 1802          | 1805        | 1812         | rBV      | 55765          | 75053         | 2.20%           | 0.282%        |
| 21        | 12.933      | 1841          | 1844        | 1849         | rVB      | 66584          | 79241         | 2.32%           | 0.297%        |
| 22        | 13.063      | 1862          | 1866        | 1888         | rBV      | 1910460        | 2431221       | 71.11%          | 9.122%        |
| 23        | 13.933      | 2011          | 2014        | 2029         | rVB      | 277539         | 318689        | 9.32%           | 1.196%        |
| 24        | 14.080      | 2036          | 2039        | 2042         | rVB      | 51901          | 48740         | 1.43%           | 0.183%        |
| 25        | 14.139      | 2044          | 2049        | 2059         | rBV      | 487668         | 765498        | 22.39%          | 2.872%        |
| 26        | 14.580      | 2119          | 2124        | 2129         | rBV3     | 32868          | 58152         | 1.70%           | 0.218%        |
| 27        | 14.962      | 2186          | 2189        | 2196         | rVB2     | 42857          | 53094         | 1.55%           | 0.199%        |
| 28        | 15.233      | 2230          | 2235        | 2239         | rBV4     | 47346          | 84726         | 2.48%           | 0.318%        |
| 29        | 15.327      | 2248          | 2251        | 2256         | rBV6     | 23053          | 39741         | 1.16%           | 0.149%        |
| 30        | 15.674      | 2306          | 2310        | 2325         | rVB      | 325474         | 570111        | 16.67%          | 2.139%        |
| 31        | 16.092      | 2377          | 2381        | 2384         | rVB3     | 29224          | 40156         | 1.17%           | 0.151%        |
| 32        | 16.151      | 2387          | 2391        | 2394         | rBV5     | 30486          | 52130         | 1.52%           | 0.196%        |

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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-BF032818.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

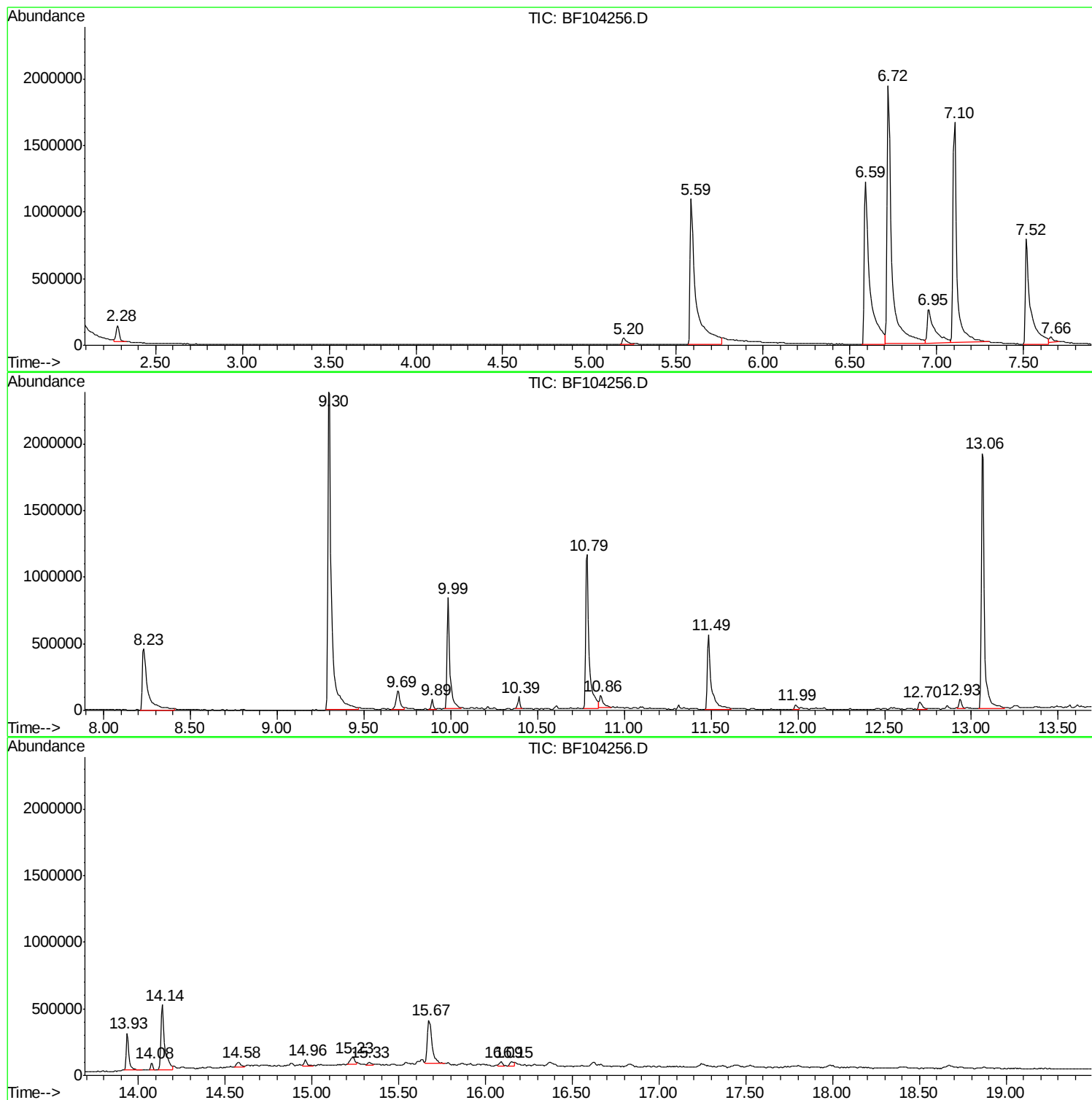
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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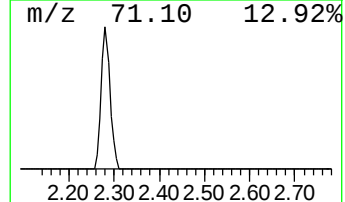
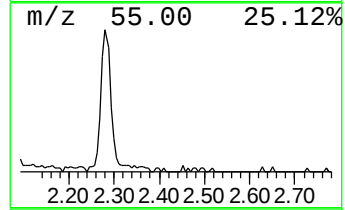
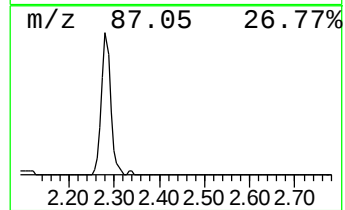
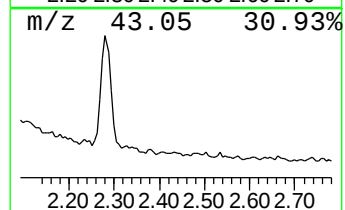
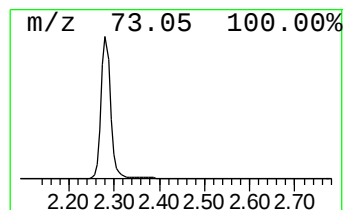
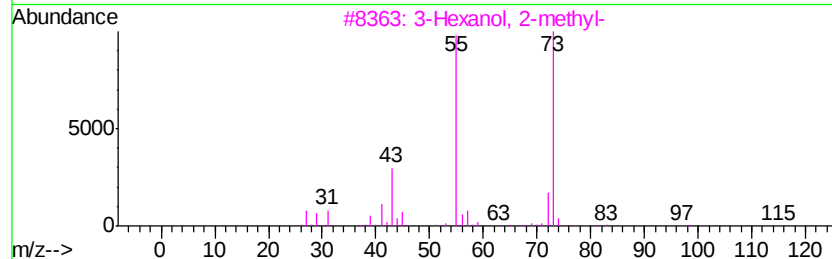
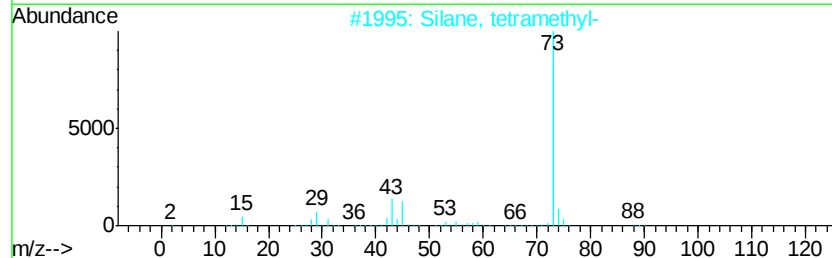
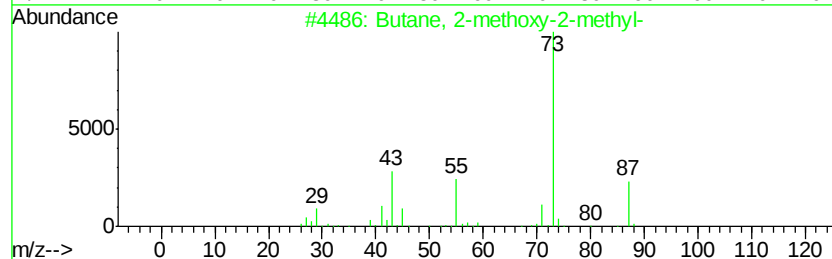
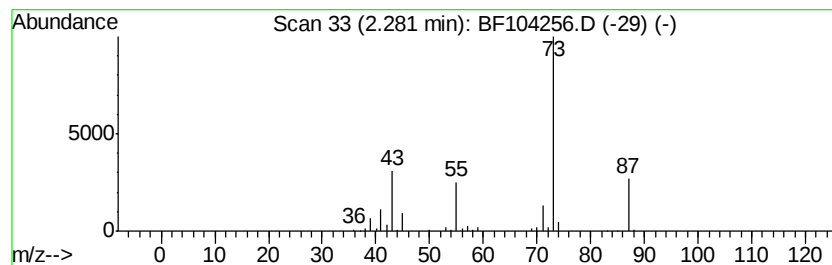
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.28 | 4.60 ng | 171967 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 86   |
| 2    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |
| 3    |    |   | 3-Hexanol, 2-methyl-        | 116 | C7H16O  | 000617-29-8 | 17   |
| 4    |    |   | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |
| 5    |    |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

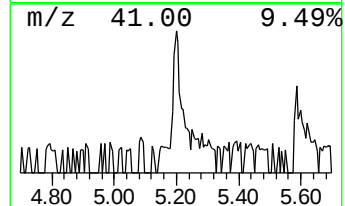
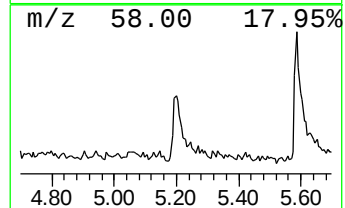
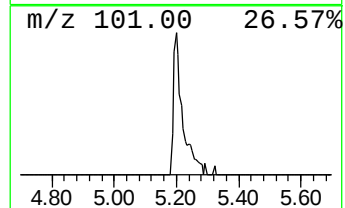
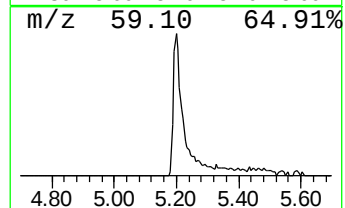
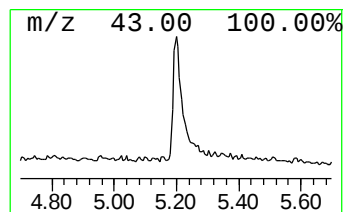
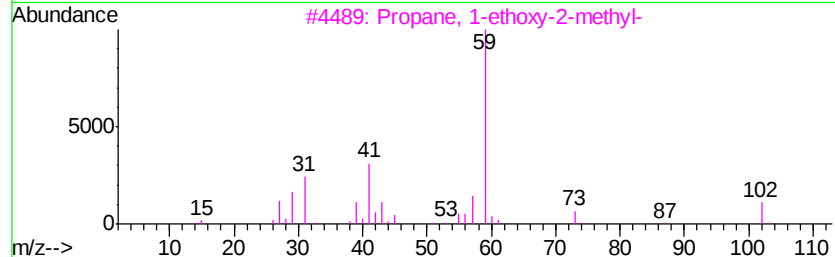
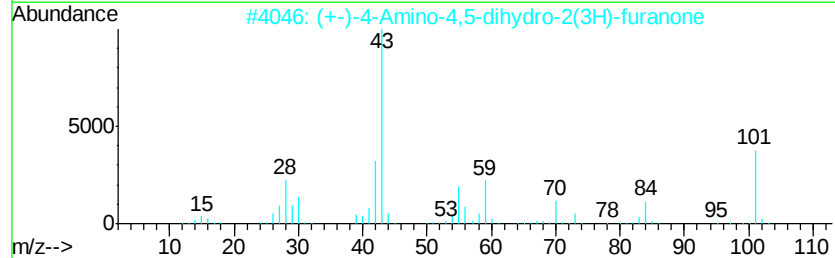
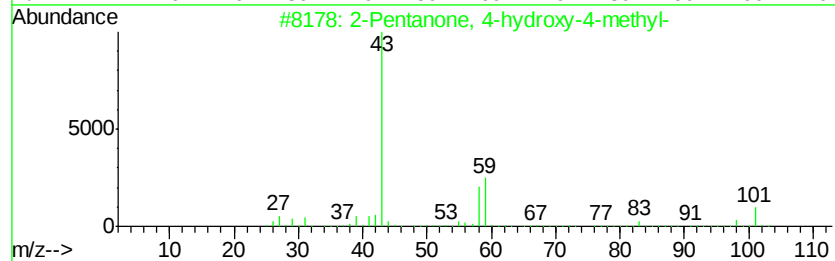
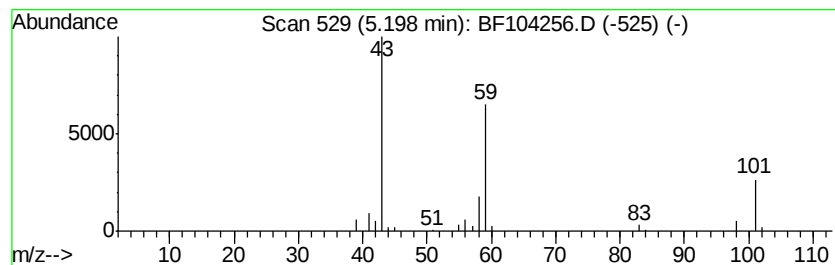
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.20 | 2.35 ng | 87635 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-       | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    | (+)-4-Amino-4,5-dihydro-2(3H)-furanone | 101 | C4H7NO2 | 016504-58-8 | 43   |
| 3    |    | Propane, 1-ethoxy-2-methyl-            | 102 | C6H14O  | 000627-02-1 | 35   |
| 4    |    | Propanamide, N-ethyl-                  | 101 | C5H11NO | 005129-72-6 | 9    |
| 5    |    | 2,3-Butanedione, monooxime             | 101 | C4H7NO2 | 000057-71-6 | 9    |



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Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-014-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.M  
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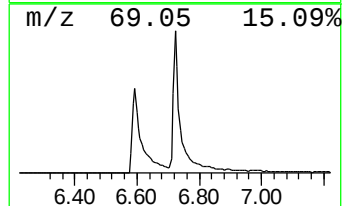
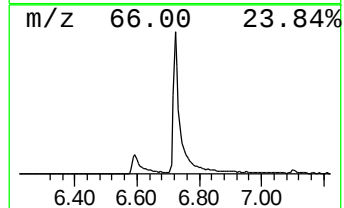
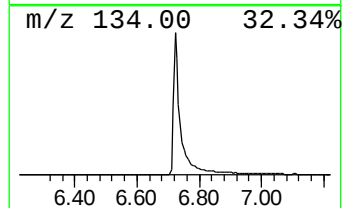
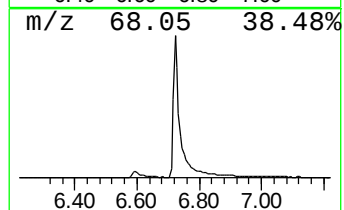
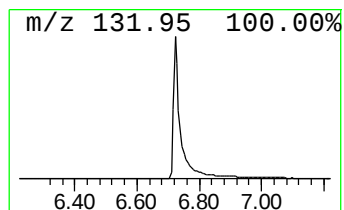
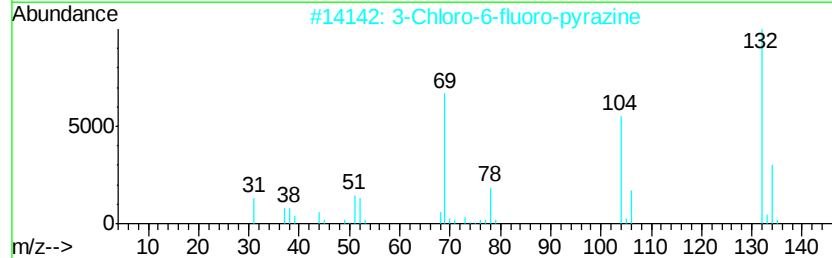
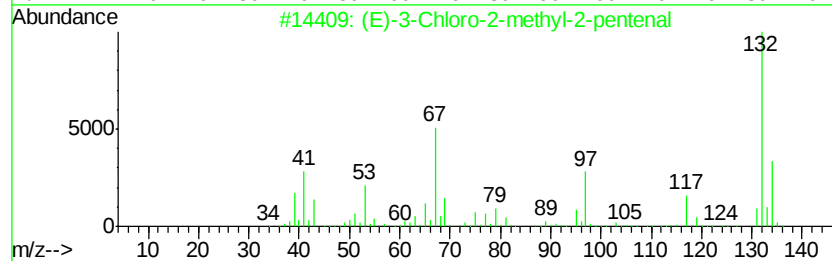
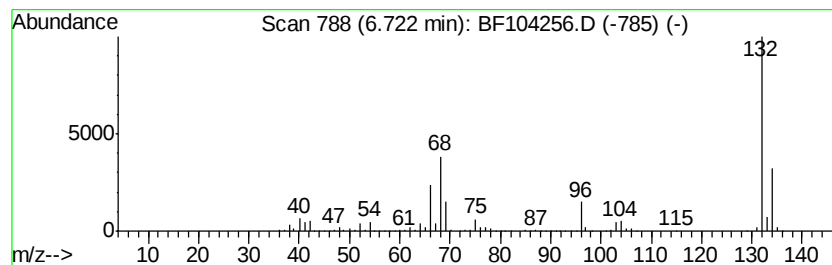
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.72 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.72 | 90.51 ng | 3381730 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |



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ALS Vial : 32 Sample Multiplier: 1

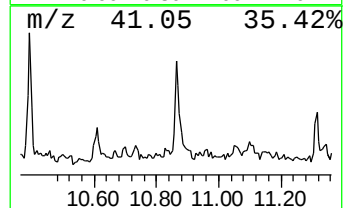
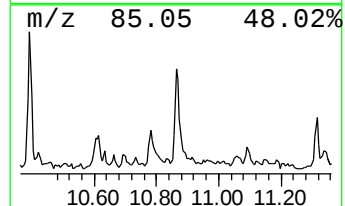
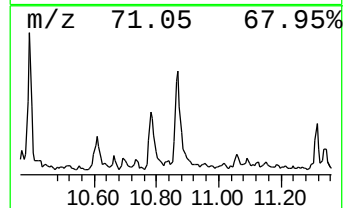
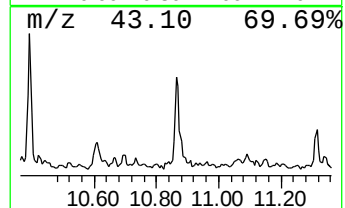
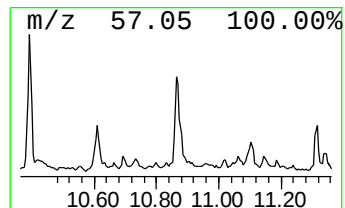
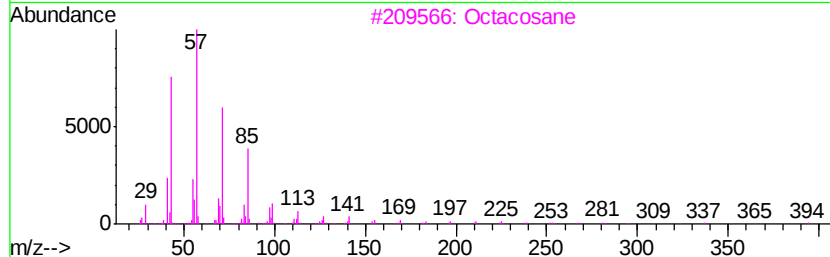
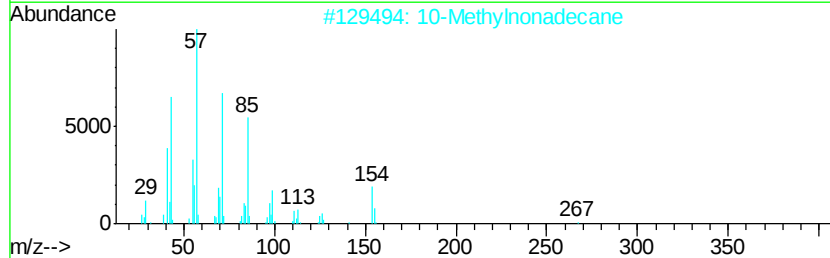
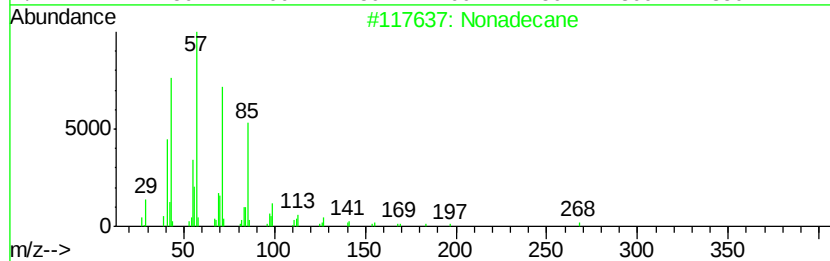
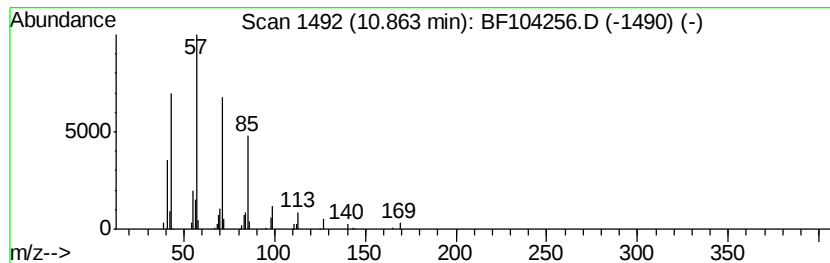
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Nonadecane Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 10.86     | 3.09 ng             | 142565 | Phenanthrene-d10 |             | 11.49 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Nonadecane          | 268    | C19H40           | 000629-92-5 | 91    |
| 2         | 10-Methylnonadecane | 282    | C20H42           | 056862-62-5 | 90    |
| 3         | Octacosane          | 394    | C28H58           | 000630-02-4 | 90    |
| 4         | Heptadecane         | 240    | C17H36           | 000629-78-7 | 90    |
| 5         | Hexadecane          | 226    | C16H34           | 000544-76-3 | 90    |



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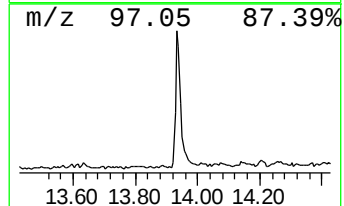
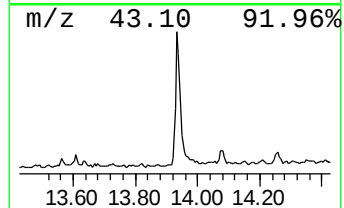
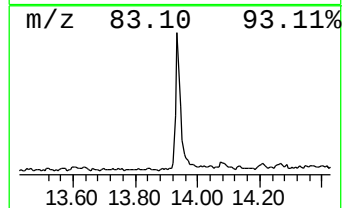
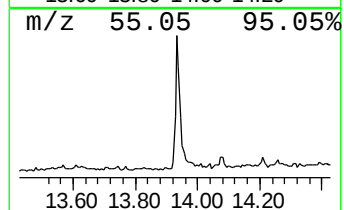
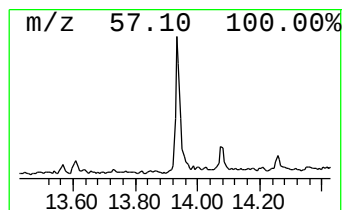
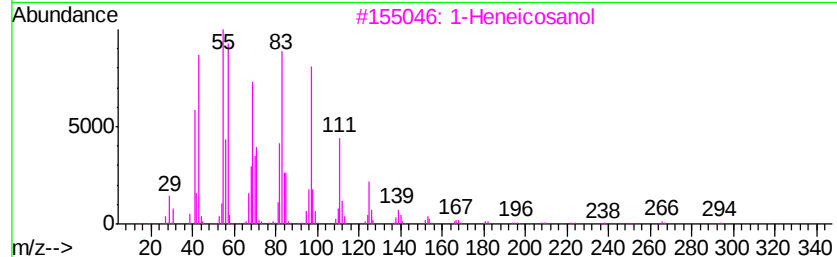
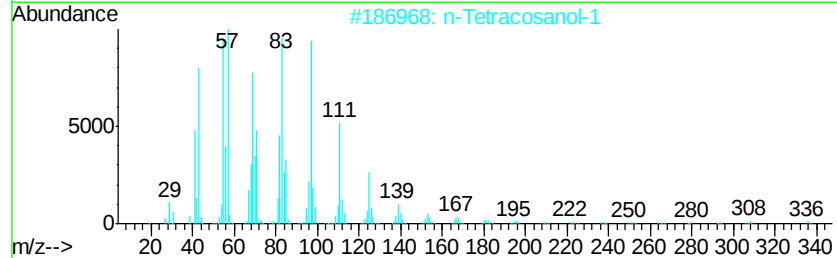
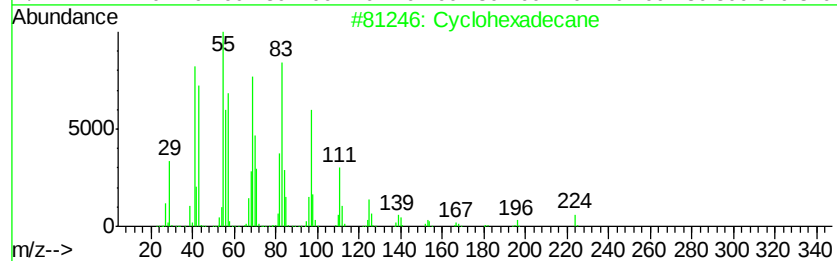
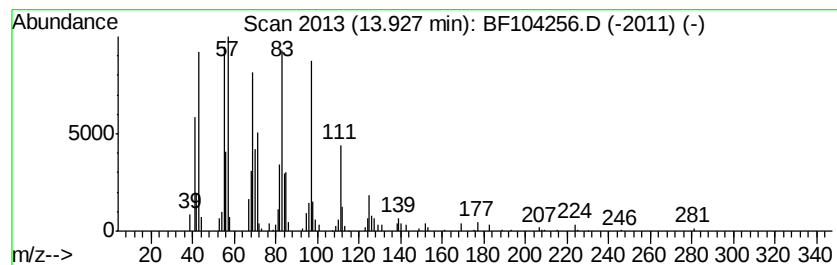
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Cyclohexadecane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.93 | 8.33 ng | 318689 | Chrysene-d12     | 14.14 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexadecane  | 224 | C16H32  | 000295-65-8 | 98   |
| 2    |    | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 95   |
| 3    |    | 1-Heneicosanol   | 312 | C21H44O | 015594-90-8 | 95   |
| 4    |    | Behenic alcohol  | 326 | C22H46O | 000661-19-8 | 95   |
| 5    |    | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040418\  
Data File : BF104256.D  
Acq On : 5 Apr 2018 5:52  
Operator : JU/SJ  
Sample : J2202-01  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

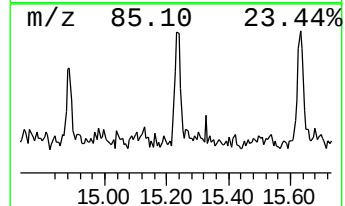
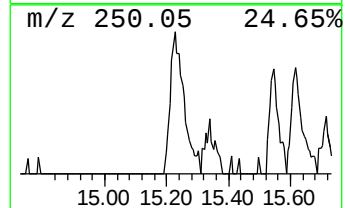
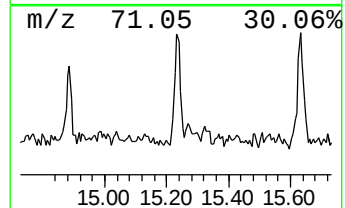
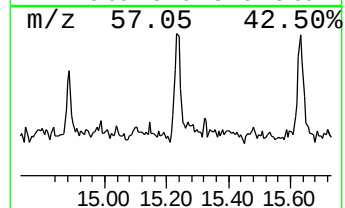
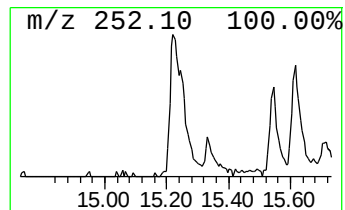
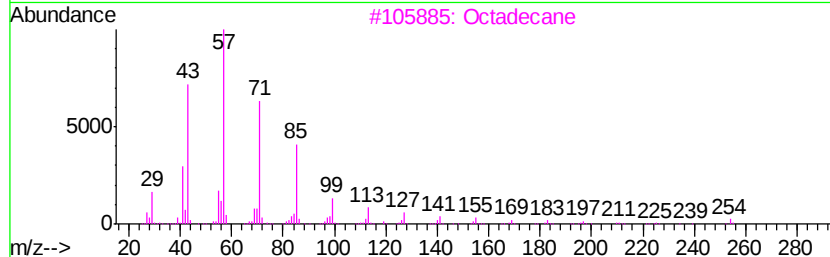
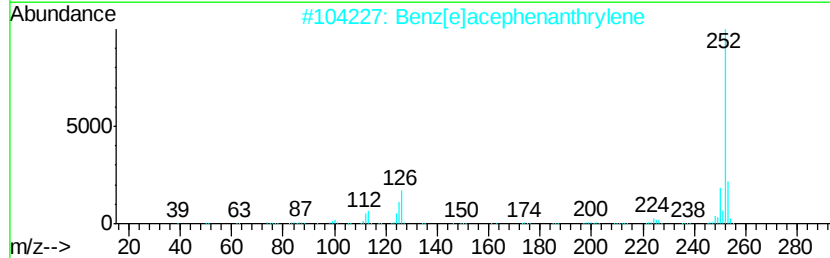
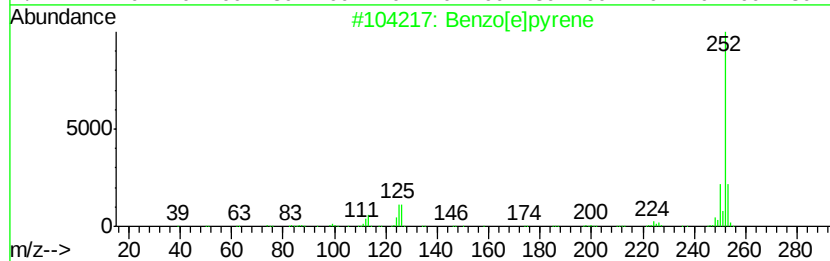
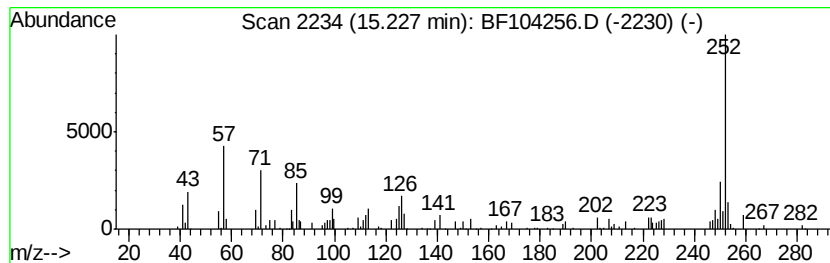
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-014-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.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 Benzo[e]pyrene Concentration Rank 6

| R.T.      | EstConc                  | Area  | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|-------|------------------|-------------|------|
| 15.23     | 2.97 ng                  | 84726 | Perylene-d12     | 15.67       |      |
| Hit# of 5 | Tentative ID             | MW    | MolForm          | CAS#        | Qual |
| 1         | Benzo[e]pyrene           | 252   | C20H12           | 000192-97-2 | 50   |
| 2         | Benz[e]acephenanthrylene | 252   | C20H12           | 000205-99-2 | 43   |
| 3         | Octadecane               | 254   | C18H38           | 000593-45-3 | 42   |
| 4         | Benzo[a]pyrene           | 252   | C20H12           | 000050-32-8 | 38   |
| 5         | Benzo[k]fluoranthene     | 252   | C20H12           | 000207-08-9 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040418\  
Data File : BF104256.D  
Acq On : 5 Apr 2018 5:52  
Operator : JU/SJ  
Sample : J2202-01  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-014-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.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 |
| Butane, 2-methoxy... | 2.28  | 4.6     | ng    | 171967   | 1                     | 6.96  | 747302 | 20.0 |
| 2-Pentanone, 4-hy... | 5.20  | 2.4     | ng    | 87635    | 1                     | 6.96  | 747302 | 20.0 |
| unknown6.72          | 6.72  | 90.5    | ng    | 3381730  | 1                     | 6.96  | 747302 | 20.0 |
| Nonadecane           | 10.86 | 3.1     | ng    | 142565   | 4                     | 11.49 | 923496 | 20.0 |
| Cyclohexadecane      | 13.93 | 8.3     | ng    | 318689   | 5                     | 14.14 | 765498 | 20.0 |
| Benzo[e]pyrene       | 15.23 | 3.0     | ng    | 84726    | 6                     | 15.67 | 570111 | 20.0 |