

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020720\  
 Data File : BF118853.D  
 Acq On : 7 Feb 2020 16:27  
 Operator : CG/JU  
 Sample : L1439-04 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HAM-SB-0203-0-5

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF020320.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         | 4.446       | 397           | 401         | 409          | rBV      | 22945          | 34919         | 1.44%           | 0.113%        |
| 2         | 5.428       | 564           | 568         | 581          | rVB      | 2246410        | 2058270       | 85.01%          | 6.649%        |
| 3         | 6.440       | 736           | 740         | 749          | rBV      | 2087645        | 2029258       | 83.81%          | 6.556%        |
| 4         | 6.651       | 772           | 776         | 780          | rBV3     | 24013          | 33687         | 1.39%           | 0.109%        |
| 5         | 6.810       | 800           | 803         | 807          | rBV      | 1472161        | 1332042       | 55.02%          | 4.303%        |
| 6         | 6.892       | 812           | 817         | 821          | rVB      | 41549          | 44247         | 1.83%           | 0.143%        |
| 7         | 6.934       | 821           | 824         | 826          | rBV      | 74418          | 62050         | 2.56%           | 0.200%        |
| 8         | 6.969       | 826           | 830         | 834          | rBV      | 2197410        | 1799850       | 74.34%          | 5.814%        |
| 9         | 7.216       | 868           | 872         | 882          | rBV      | 255133         | 272729        | 11.26%          | 0.881%        |
| 10        | 7.369       | 892           | 898         | 905          | rBV      | 1563390        | 1382808       | 57.11%          | 4.467%        |
| 11        | 8.092       | 1017          | 1021        | 1031         | rBV      | 1773686        | 1857091       | 76.70%          | 5.999%        |
| 12        | 8.804       | 1137          | 1142        | 1146         | rBV      | 86904          | 94383         | 3.90%           | 0.305%        |
| 13        | 8.904       | 1156          | 1159        | 1164         | rBV2     | 41239          | 35561         | 1.47%           | 0.115%        |
| 14        | 9.086       | 1181          | 1190        | 1193         | rBV6     | 24889          | 50602         | 2.09%           | 0.163%        |
| 15        | 9.169       | 1200          | 1204        | 1216         | rBV      | 2750874        | 2421158       | 100.00%         | 7.822%        |
| 16        | 9.275       | 1216          | 1222        | 1226         | rVV5     | 51279          | 94649         | 3.91%           | 0.306%        |
| 17        | 9.433       | 1245          | 1249        | 1253         | rVB2     | 26360          | 40059         | 1.65%           | 0.129%        |
| 18        | 9.510       | 1256          | 1262        | 1264         | rBV      | 49486          | 58752         | 2.43%           | 0.190%        |
| 19        | 9.563       | 1268          | 1271        | 1276         | rVB2     | 90609          | 107564        | 4.44%           | 0.347%        |
| 20        | 9.851       | 1313          | 1320        | 1323         | rBV      | 2192300        | 2031602       | 83.91%          | 6.563%        |
| 21        | 9.881       | 1323          | 1325        | 1330         | rVB      | 96062          | 101490        | 4.19%           | 0.328%        |
| 22        | 9.951       | 1335          | 1337        | 1342         | rVB4     | 25180          | 35151         | 1.45%           | 0.114%        |
| 23        | 10.010      | 1342          | 1347        | 1350         | rBV6     | 24892          | 46926         | 1.94%           | 0.152%        |
| 24        | 10.051      | 1351          | 1354        | 1358         | rVV2     | 124524         | 124714        | 5.15%           | 0.403%        |
| 25        | 10.169      | 1371          | 1374        | 1376         | rBV      | 33096          | 37628         | 1.55%           | 0.122%        |
| 26        | 10.286      | 1391          | 1394        | 1396         | rVB2     | 45935          | 42994         | 1.78%           | 0.139%        |
| 27        | 10.345      | 1401          | 1404        | 1408         | rBV5     | 23612          | 36877         | 1.52%           | 0.119%        |
| 28        | 10.392      | 1409          | 1412        | 1415         | rBV      | 99324          | 101808        | 4.20%           | 0.329%        |
| 29        | 10.504      | 1429          | 1431        | 1436         | rVB      | 70477          | 65644         | 2.71%           | 0.212%        |
| 30        | 10.551      | 1437          | 1439        | 1443         | rVB3     | 45573          | 43224         | 1.79%           | 0.140%        |
| 31        | 10.633      | 1449          | 1453        | 1458         | rBV      | 1714892        | 1617768       | 66.82%          | 5.226%        |
| 32        | 10.769      | 1471          | 1476        | 1482         | rBV2     | 151071         | 258463        | 10.68%          | 0.835%        |
| 33        | 10.969      | 1508          | 1510        | 1514         | rBV3     | 48529          | 71338         | 2.95%           | 0.230%        |
| 34        | 11.204      | 1548          | 1550        | 1552         | rVV2     | 75055          | 54598         | 2.26%           | 0.176%        |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 HAM-SB-0203-0-5

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF020320.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.233 | 1552 | 1555 | 1561 | rVB2 | 210973  | 253863  | 10.49% | 0.820% |
| 36 | 11.333 | 1568 | 1572 | 1574 | rBV  | 2135054 | 1866305 | 77.08% | 6.029% |
| 37 | 11.357 | 1574 | 1576 | 1579 | rVV  | 905822  | 731477  | 30.21% | 2.363% |
| 38 | 11.410 | 1582 | 1585 | 1588 | rVB  | 186846  | 194849  | 8.05%  | 0.629% |
| 39 | 11.863 | 1659 | 1662 | 1667 | rBV  | 507006  | 432875  | 17.88% | 1.398% |
| 40 | 11.945 | 1674 | 1676 | 1679 | rBV  | 178133  | 156715  | 6.47%  | 0.506% |
| 41 | 12.545 | 1775 | 1778 | 1781 | rBV  | 1075556 | 976962  | 40.35% | 3.156% |
| 42 | 12.774 | 1814 | 1817 | 1820 | rVB  | 854540  | 691272  | 28.55% | 2.233% |
| 43 | 12.916 | 1838 | 1841 | 1846 | rBV  | 1988193 | 1828707 | 75.53% | 5.908% |
| 44 | 13.104 | 1871 | 1873 | 1877 | rVB  | 315857  | 252535  | 10.43% | 0.816% |
| 45 | 13.974 | 2016 | 2021 | 2024 | rBV2 | 1770719 | 2234482 | 92.29% | 7.219% |
| 46 | 15.010 | 2194 | 2197 | 2200 | rBV  | 552085  | 746449  | 30.83% | 2.411% |
| 47 | 15.363 | 2255 | 2257 | 2264 | rVB  | 396327  | 514460  | 21.25% | 1.662% |
| 48 | 15.427 | 2264 | 2268 | 2272 | rBV  | 1168134 | 1593688 | 65.82% | 5.148% |

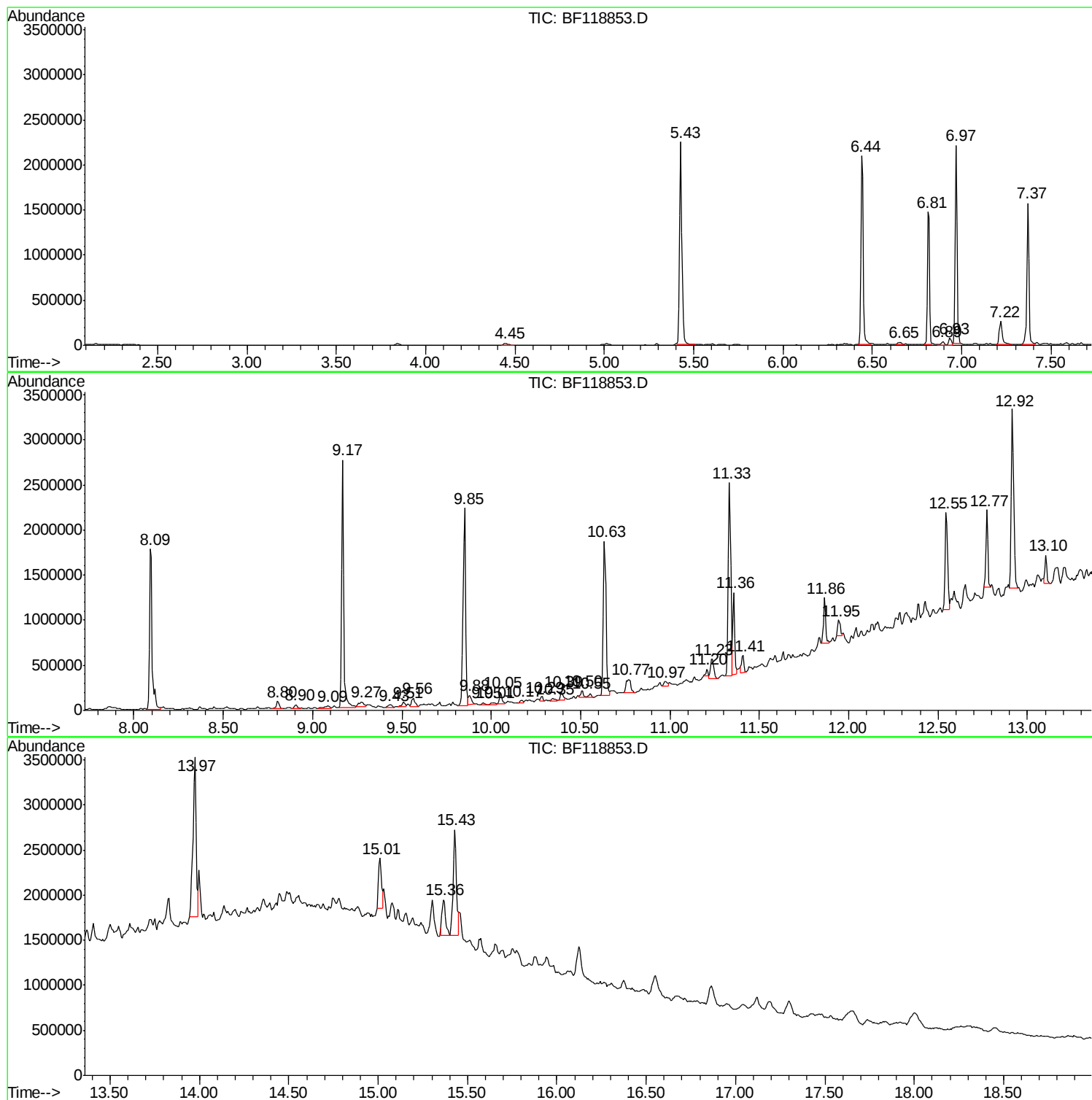
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
Data File : BF118853.D  
Acq On : 7 Feb 2020 16:27  
Operator : CG/JU  
Sample : L1439-04 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

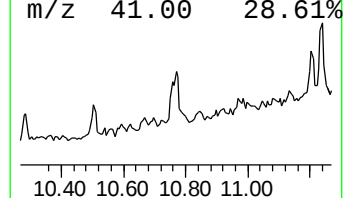
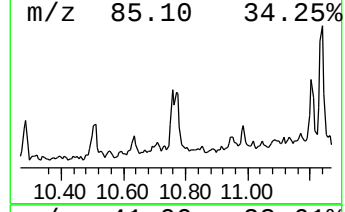
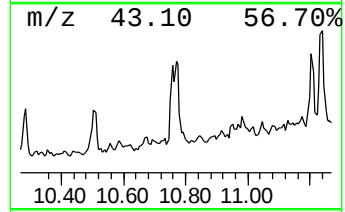
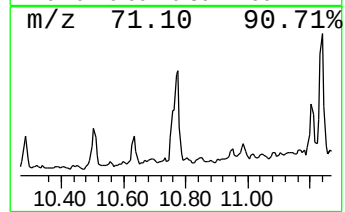
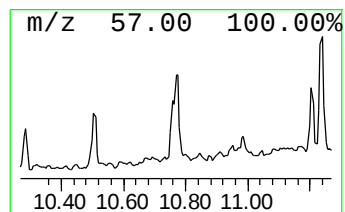
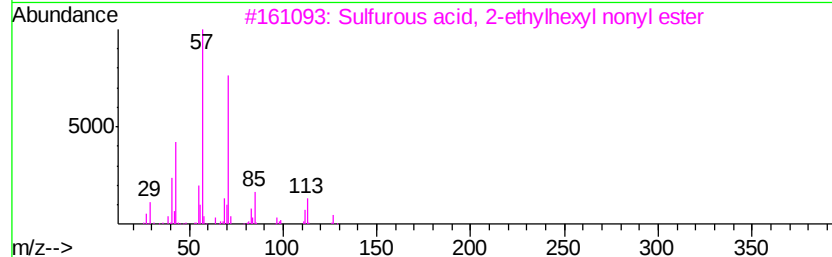
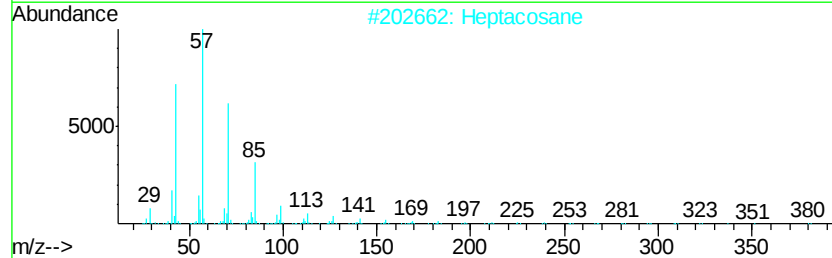
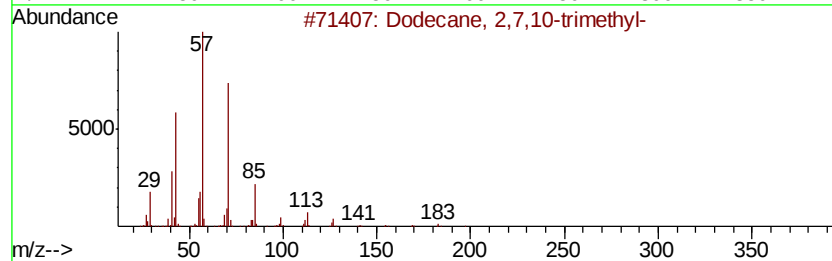
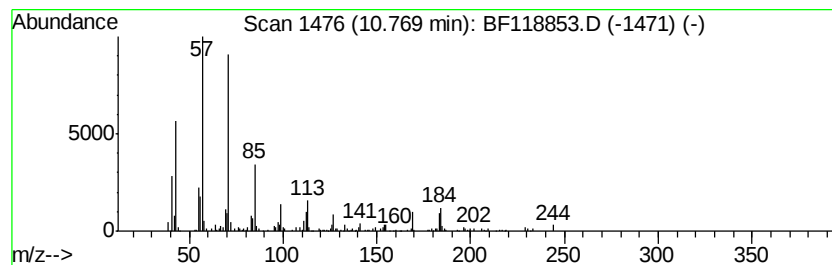
Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.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 Dodecane, 2,7,10-trimethyl- Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 10.77   | 2.77 ng                             | 258463       | Phenanthrene-d10 | 11.33        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Dodecane, 2,7,10-trimethyl-         | 212          | C15H32           | 074645-98-0  | 80   |      |
| 2       | Heptacosane                         | 380          | C27H56           | 000593-49-7  | 64   |      |
| 3       | Sulfurous acid, 2-ethylhexyl non... | 320          | C17H36O3S        | 1000309-19-2 | 58   |      |
| 4       | Sulfurous acid, decyl 2-ethylhex... | 334          | C18H38O3S        | 1000309-19-3 | 58   |      |
| 5       | Sulfurous acid, 2-ethylhexyl und... | 348          | C19H40O3S        | 1000309-19-4 | 58   |      |



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Misc :  
ALS Vial : 10 Sample Multiplier: 1

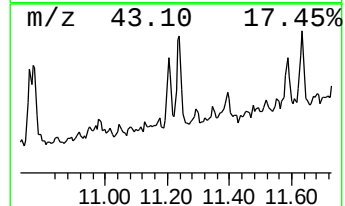
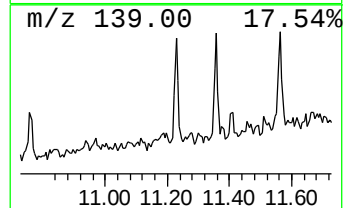
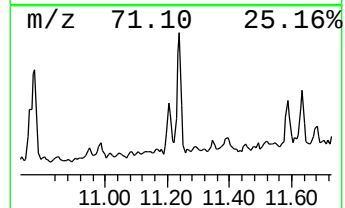
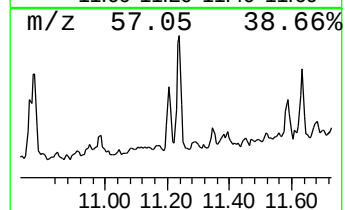
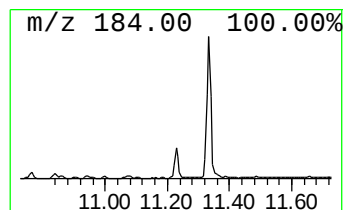
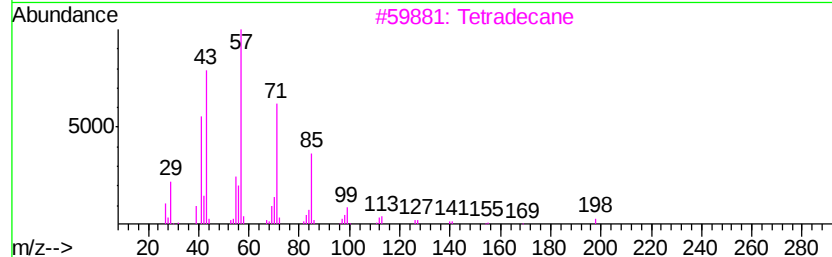
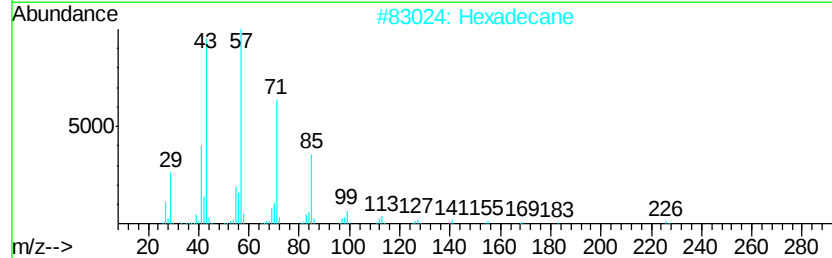
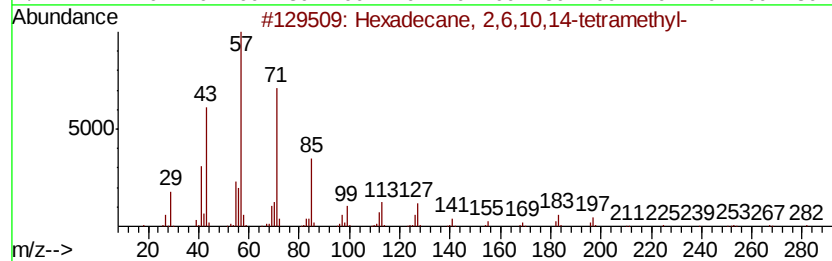
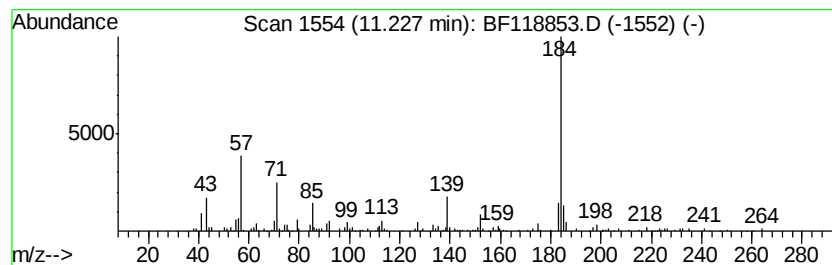
Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.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 3 Hexadecane, 2,6,10,14-tetra... Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 11.23     | 2.72 ng                             | 253863 | Phenanthrene-d10 |             | 11.33 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Hexadecane, 2,6,10,14-tetramethyl-  | 282    | C20H42           | 000638-36-8 | 72    |
| 2         | Hexadecane                          | 226    | C16H34           | 000544-76-3 | 70    |
| 3         | Tetradecane                         | 198    | C14H30           | 000629-59-4 | 58    |
| 4         | Heptadecane, 2,6,10,15-tetramethyl- | 296    | C21H44           | 054833-48-6 | 58    |
| 5         | Pentadecane, 4-methyl-              | 226    | C16H34           | 002801-87-8 | 58    |



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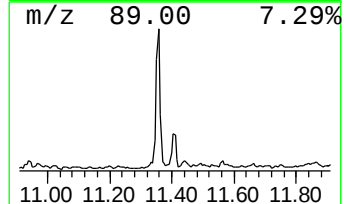
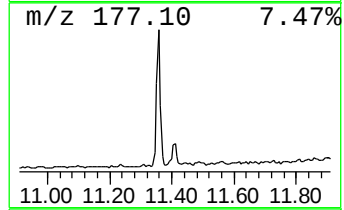
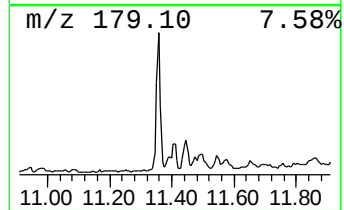
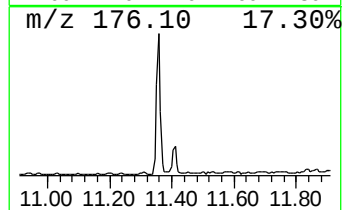
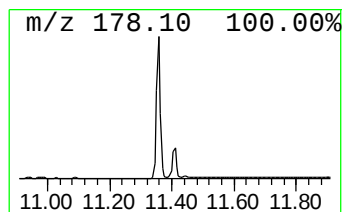
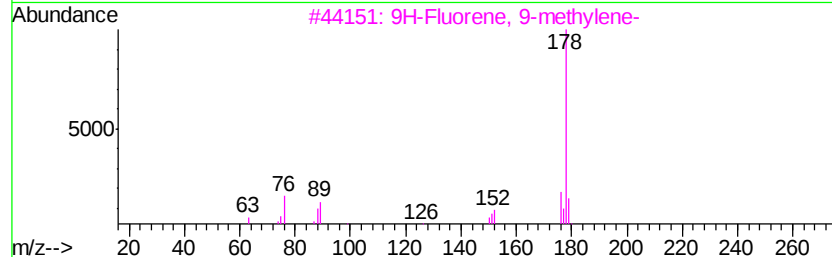
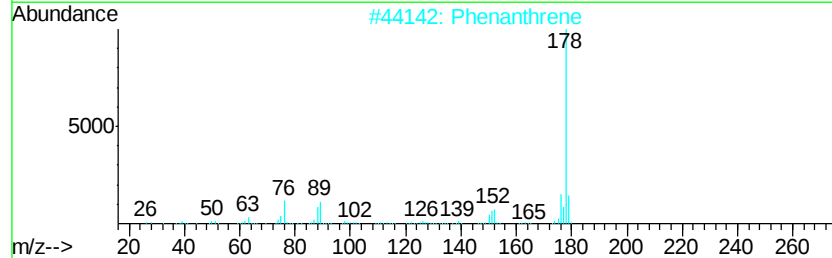
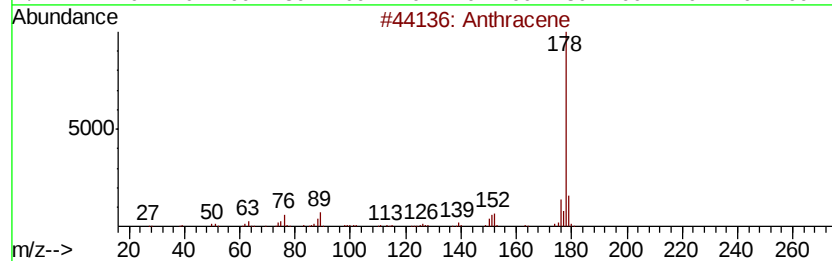
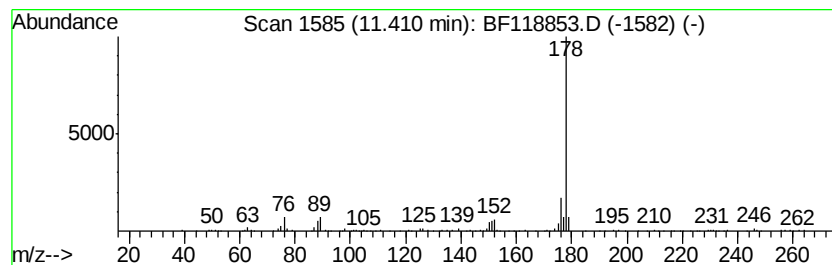
Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 9H-Fluorene, 9-methylene- Concentration Rank 6

| R.T.      | EstConc                            | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|--------|------------------|-------------|------|
| 11.41     | 2.09 ng                            | 194849 | Phenanthrene-d10 | 11.33       |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#        | Qual |
| 1         | Anthracene                         | 178    | C14H10           | 000120-12-7 | 87   |
| 2         | Phenanthrene                       | 178    | C14H10           | 000085-01-8 | 87   |
| 3         | 9H-Fluorene, 9-methvlene-          | 178    | C14H10           | 004425-82-5 | 81   |
| 4         | Diphenylacetylene                  | 178    | C14H10           | 000501-65-5 | 72   |
| 5         | 2-Cyclopropen-1-one, 2,3-diphenyl- | 206    | C15H10O          | 000886-38-4 | 72   |



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Misc :  
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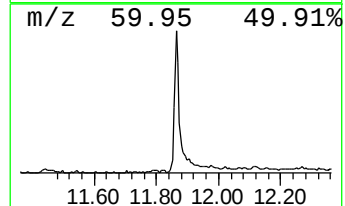
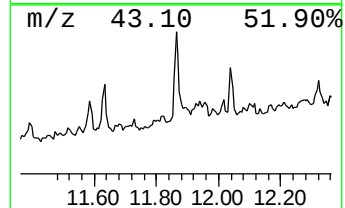
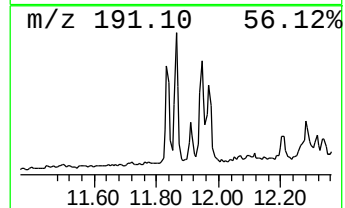
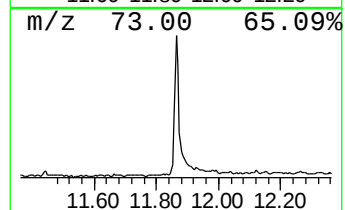
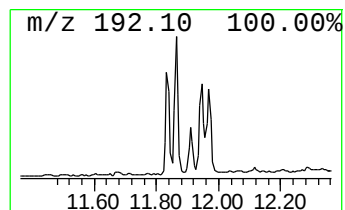
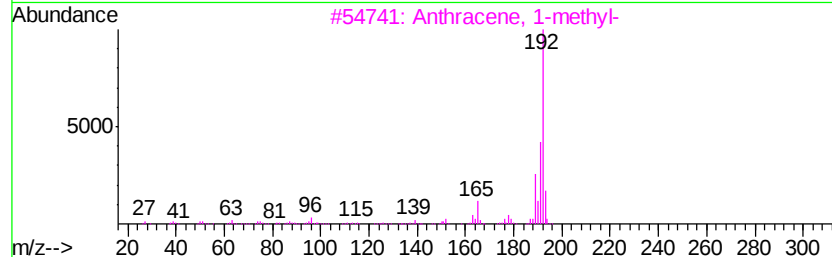
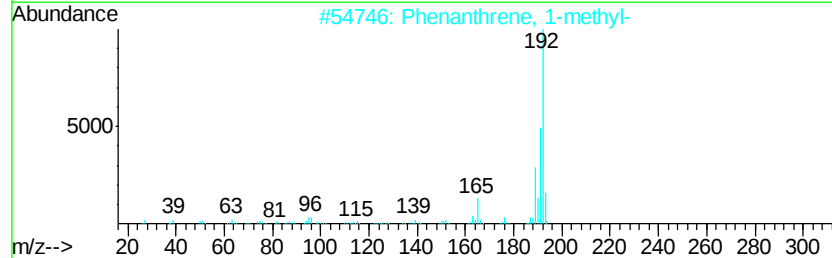
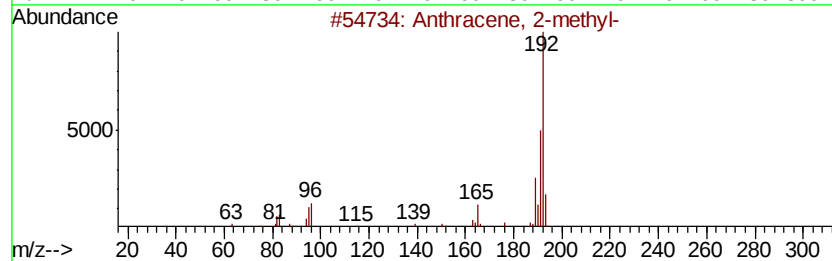
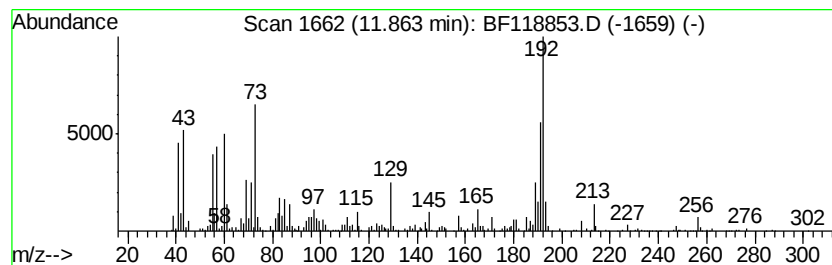
Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 2

| R.T.    | EstConc | Area                                  | Relative to ISTD | R.T.    |             |      |
|---------|---------|---------------------------------------|------------------|---------|-------------|------|
| 11.86   | 4.64 ng | 432875                                | Phenanthrene-d10 | 11.33   |             |      |
| Hit# of | 5       | Tentative ID                          | MW               | MolForm | CAS#        | Qual |
| 1       |         | Anthracene, 2-methyl-                 | 192              | C15H12  | 000613-12-7 | 93   |
| 2       |         | Phenanthrene, 1-methyl-               | 192              | C15H12  | 000832-69-9 | 90   |
| 3       |         | Anthracene, 1-methyl-                 | 192              | C15H12  | 000610-48-0 | 90   |
| 4       |         | Anthracene, 9-methyl-                 | 192              | C15H12  | 000779-02-2 | 90   |
| 5       |         | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192              | C15H12  | 000949-41-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
Data File : BF118853.D  
Acq On : 7 Feb 2020 16:27  
Operator : CG/JU  
Sample : L1439-04 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

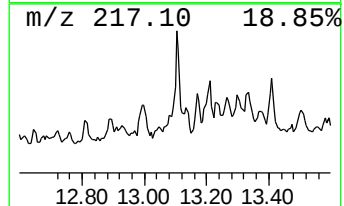
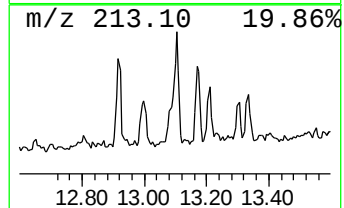
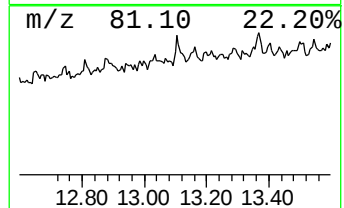
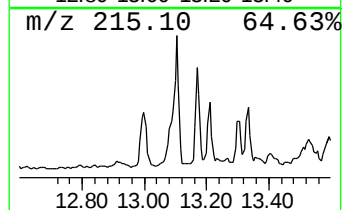
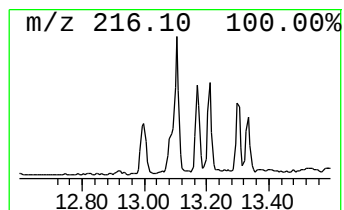
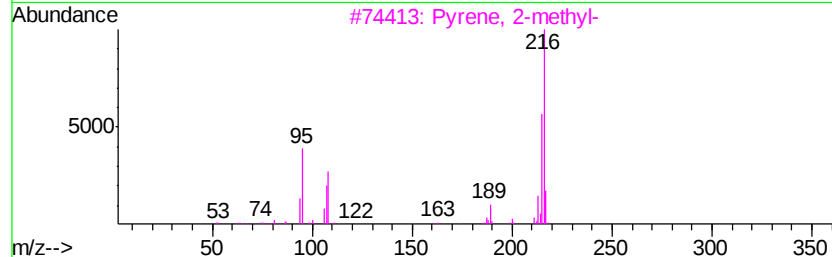
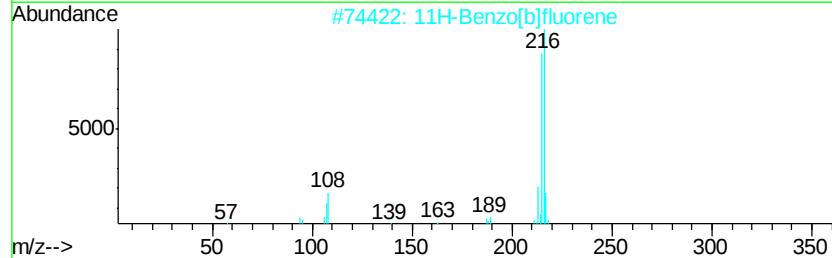
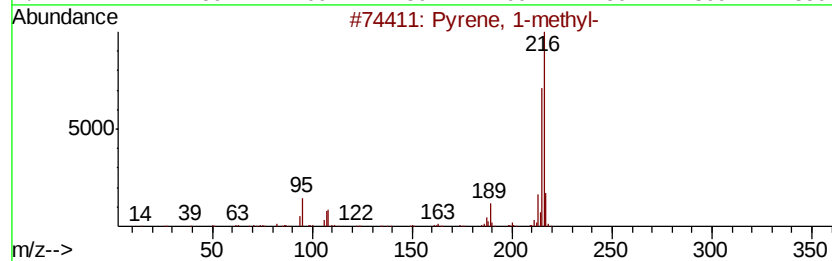
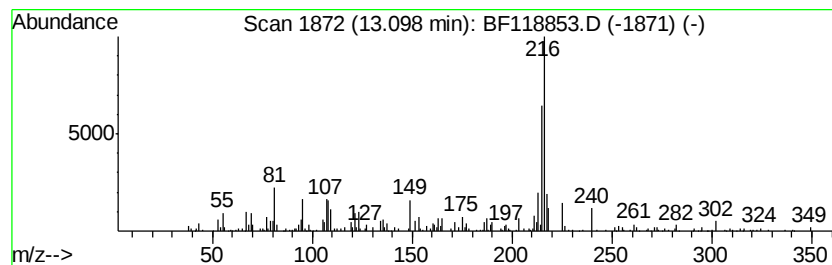
Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Pyrene, 1-methyl- Concentration Rank 5

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 13.10     | 2.26 ng                 | 252535 | Chrysene-d12     | 13.97       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Pyrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 89   |
| 2         | 11H-Benzo[b]fluorene    | 216    | C17H12           | 000243-17-4 | 70   |
| 3         | Pyrene, 2-methyl-       | 216    | C17H12           | 003442-78-2 | 68   |
| 4         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 58   |
| 5         | 11H-Benzo[a]fluorene    | 216    | C17H12           | 000238-84-6 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020720\  
Data File : BF118853.D  
Acq On : 7 Feb 2020 16:27  
Operator : CG/JU  
Sample : L1439-04 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HAM-SB-0203-0-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF020320.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 |
| Dodecane, 2,7,10-... | 10.77 | 2.8     | ng    | 258463   | 4                     | 11.33 | 1866310 | 20.0 |
| Hexadecane, 2,6,1... | 11.23 | 2.7     | ng    | 253863   | 4                     | 11.33 | 1866310 | 20.0 |
| 9H-Fluorene, 9-me... | 11.41 | 2.1     | ng    | 194849   | 4                     | 11.33 | 1866310 | 20.0 |
| Anthracene, 2-met... | 11.86 | 4.6     | ng    | 432875   | 4                     | 11.33 | 1866310 | 20.0 |
| Pyrene, 1-methyl-    | 13.10 | 2.3     | ng    | 252535   | 5                     | 13.97 | 2234480 | 20.0 |