

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030618\  
 Data File : BF103469.D  
 Acq On : 6 Mar 2018 21:29  
 Operator : SJ/JU  
 Sample : J1722-13 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-9

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-BF022218.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 5.104    | 510        | 513      | 521       | rBV2  | 15099       | 28641      | 1.61%        | 0.154%     |
| 2      | 5.498    | 576        | 580      | 615       | rBV   | 801075      | 1650826    | 92.99%       | 8.854%     |
| 3      | 6.510    | 748        | 752      | 771       | rBV   | 914902      | 1775211    | 100.00%      | 9.521%     |
| 4      | 6.639    | 771        | 774      | 794       | rVB   | 1398240     | 1762835    | 99.30%       | 9.455%     |
| 5      | 6.869    | 810        | 813      | 836       | rVB   | 709759      | 804353     | 45.31%       | 4.314%     |
| 6      | 7.022    | 836        | 839      | 856       | rBV   | 1074322     | 1200109    | 67.60%       | 6.437%     |
| 7      | 7.439    | 906        | 910      | 927       | rBV   | 657529      | 1044099    | 58.82%       | 5.600%     |
| 8      | 8.157    | 1028       | 1032     | 1052      | rBV   | 725961      | 1111625    | 62.62%       | 5.962%     |
| 9      | 8.880    | 1151       | 1155     | 1160      | rBV3  | 12823       | 21532      | 1.21%        | 0.115%     |
| 10     | 9.227    | 1210       | 1214     | 1223      | rBV   | 1360216     | 1475351    | 83.11%       | 7.913%     |
| 11     | 9.292    | 1223       | 1225     | 1229      | rVV2  | 37744       | 45285      | 2.55%        | 0.243%     |
| 12     | 9.333    | 1229       | 1232     | 1237      | rVB4  | 16912       | 22946      | 1.29%        | 0.123%     |
| 13     | 9.622    | 1275       | 1281     | 1288      | rBV2  | 56850       | 97960      | 5.52%        | 0.525%     |
| 14     | 9.775    | 1301       | 1307     | 1312      | rBV2  | 15114       | 29982      | 1.69%        | 0.161%     |
| 15     | 9.822    | 1312       | 1315     | 1319      | rVV   | 56451       | 54166      | 3.05%        | 0.291%     |
| 16     | 9.910    | 1326       | 1330     | 1344      | rVB   | 971404      | 1055693    | 59.47%       | 5.662%     |
| 17     | 10.127   | 1362       | 1367     | 1368      | rBV2  | 15809       | 22746      | 1.28%        | 0.122%     |
| 18     | 10.145   | 1368       | 1370     | 1375      | rVB3  | 15746       | 20393      | 1.15%        | 0.109%     |
| 19     | 10.322   | 1393       | 1400     | 1403      | rBV   | 80324       | 78622      | 4.43%        | 0.422%     |
| 20     | 10.469   | 1422       | 1425     | 1430      | rVB2  | 20241       | 21380      | 1.20%        | 0.115%     |
| 21     | 10.545   | 1433       | 1438     | 1440      | rVV2  | 22999       | 28120      | 1.58%        | 0.151%     |
| 22     | 10.710   | 1462       | 1466     | 1473      | rBV   | 509586      | 641390     | 36.13%       | 3.440%     |
| 23     | 10.798   | 1478       | 1481     | 1488      | rVB   | 69132       | 90412      | 5.09%        | 0.485%     |
| 24     | 10.951   | 1504       | 1507     | 1511      | rVB2  | 21188       | 20064      | 1.13%        | 0.108%     |
| 25     | 11.245   | 1555       | 1557     | 1561      | rBV2  | 29114       | 32437      | 1.83%        | 0.174%     |
| 26     | 11.410   | 1581       | 1585     | 1587      | rBV   | 813862      | 845512     | 47.63%       | 4.535%     |
| 27     | 11.433   | 1587       | 1589     | 1595      | rVV   | 281035      | 289267     | 16.29%       | 1.551%     |
| 28     | 11.486   | 1595       | 1598     | 1605      | rVB   | 56701       | 72355      | 4.08%        | 0.388%     |
| 29     | 11.916   | 1667       | 1671     | 1674      | rBV3  | 62317       | 89588      | 5.05%        | 0.480%     |
| 30     | 11.939   | 1674       | 1675     | 1678      | rVV   | 45406       | 40295      | 2.27%        | 0.216%     |
| 31     | 12.021   | 1686       | 1689     | 1692      | rBV   | 50873       | 55630      | 3.13%        | 0.298%     |
| 32     | 12.204   | 1717       | 1720     | 1723      | rBV   | 29331       | 36894      | 2.08%        | 0.198%     |
| 33     | 12.463   | 1761       | 1764     | 1765      | rBV   | 26643       | 27930      | 1.57%        | 0.150%     |
| 34     | 12.627   | 1789       | 1792     | 1801      | rBV   | 430850      | 430102     | 24.23%       | 2.307%     |

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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

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-BF022218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.704 | 1802 | 1805 | 1809 | rBV4 | 39130   | 52650   | 2.97%  | 0.282% |
| 36 | 12.780 | 1815 | 1818 | 1819 | rBV2 | 22915   | 25725   | 1.45%  | 0.138% |
| 37 | 12.857 | 1825 | 1831 | 1837 | rBV  | 393926  | 514870  | 29.00% | 2.761% |
| 38 | 12.986 | 1850 | 1853 | 1864 | rBV  | 1033355 | 1070672 | 60.31% | 5.742% |
| 39 | 13.186 | 1881 | 1887 | 1893 | rBV2 | 55804   | 117376  | 6.61%  | 0.630% |
| 40 | 13.539 | 1945 | 1947 | 1950 | rBV3 | 39527   | 46733   | 2.63%  | 0.251% |
| 41 | 13.868 | 2000 | 2003 | 2008 | rBV3 | 195598  | 258118  | 14.54% | 1.384% |
| 42 | 14.010 | 2024 | 2027 | 2030 | rVB  | 186266  | 142387  | 8.02%  | 0.764% |
| 43 | 14.062 | 2031 | 2036 | 2039 | rBV2 | 698876  | 813269  | 45.81% | 4.362% |
| 44 | 14.092 | 2039 | 2041 | 2043 | rVB  | 132573  | 108350  | 6.10%  | 0.581% |
| 45 | 15.574 | 2290 | 2293 | 2302 | rVB  | 303526  | 471247  | 26.55% | 2.527% |

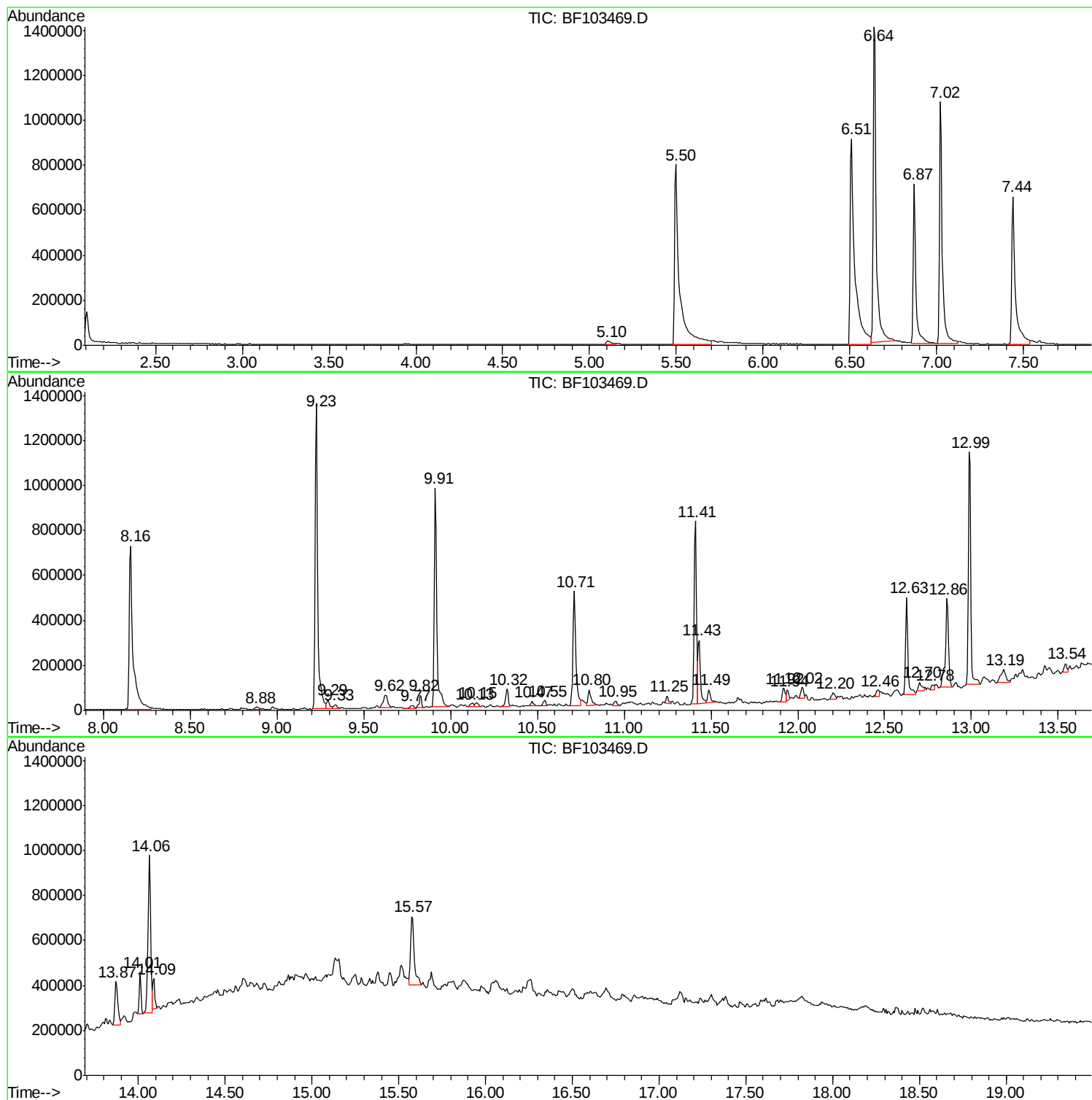
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Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\  
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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-9

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\  
Data File : BF103469.D  
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Sample : J1722-13 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

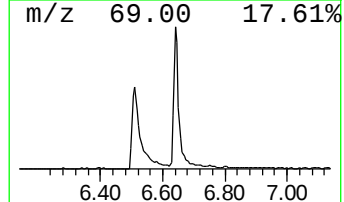
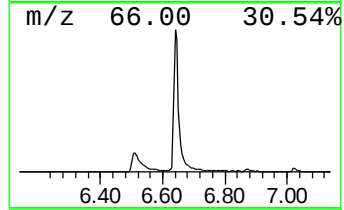
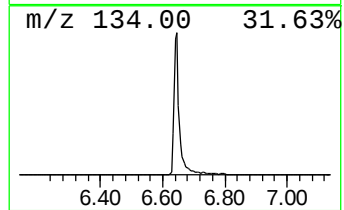
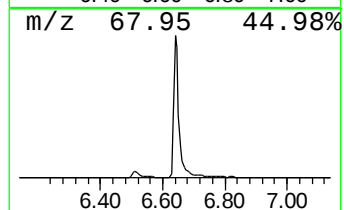
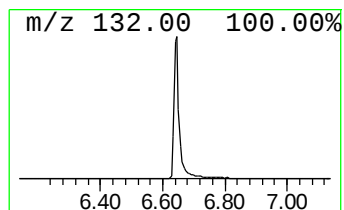
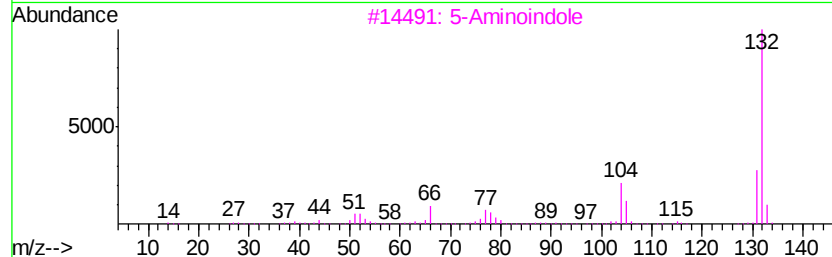
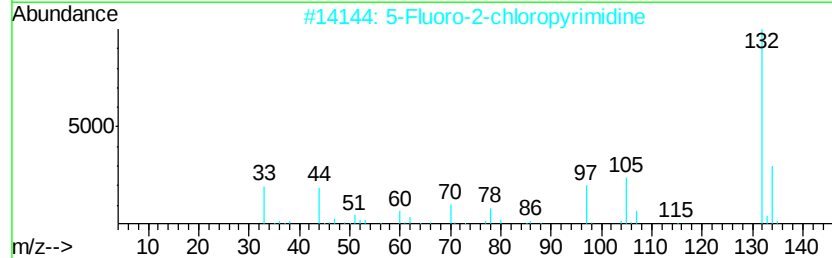
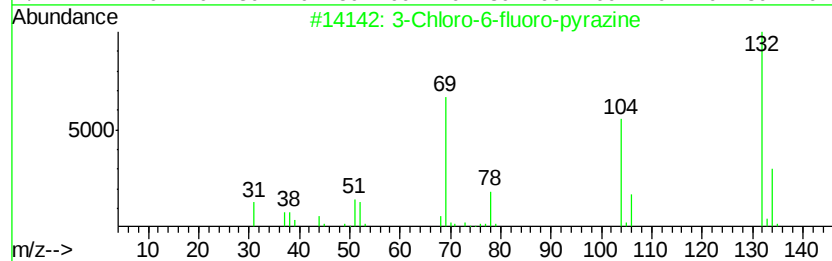
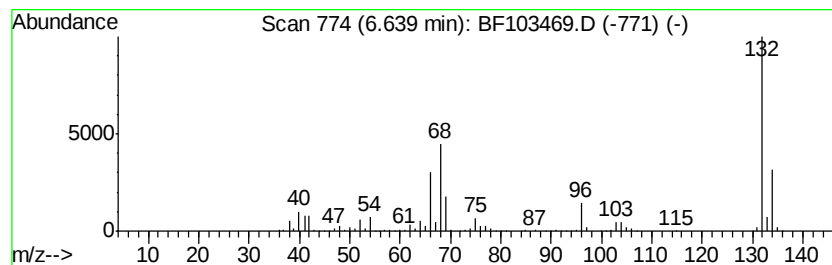
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.64 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.64 | 43.83 ng | 1762840 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

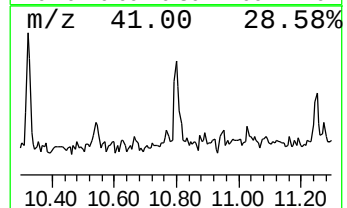
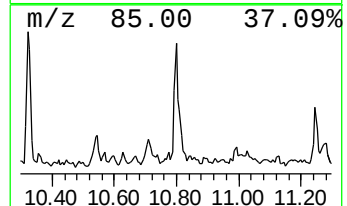
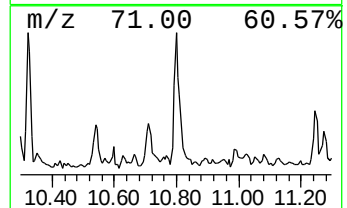
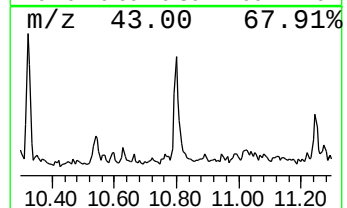
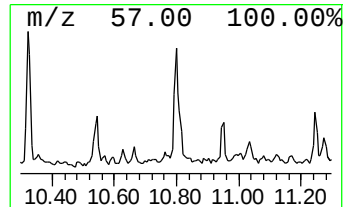
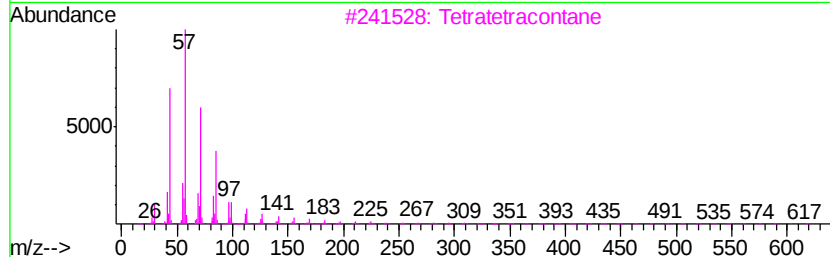
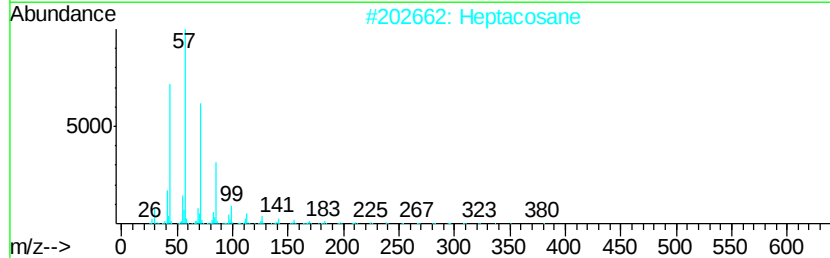
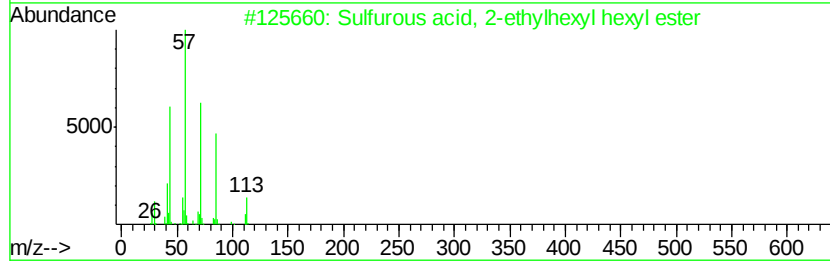
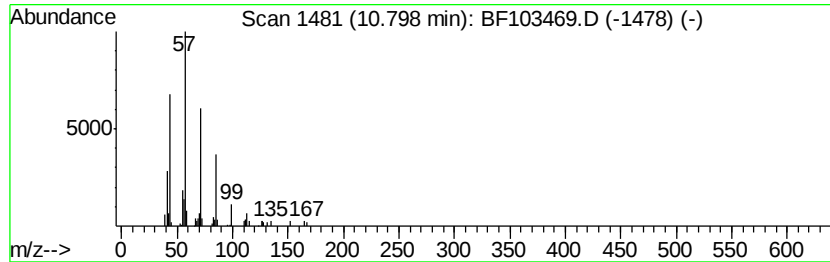
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Sulfurous acid, 2-ethylhexy... Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.80 | 2.14 ng | 90412 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 86   |
| 2       |   | Heptacosane                         | 380 | C27H56    | 000593-49-7  | 78   |
| 3       |   | Tetratetracontane                   | 619 | C44H90    | 007098-22-8  | 72   |
| 4       |   | Undecane, 3,6-dimethyl-             | 184 | C13H28    | 017301-28-9  | 72   |
| 5       |   | Octadecane                          | 254 | C18H38    | 000593-45-3  | 72   |



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Misc :  
ALS Vial : 11 Sample Multiplier: 1

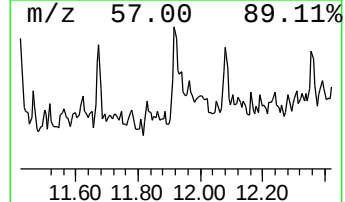
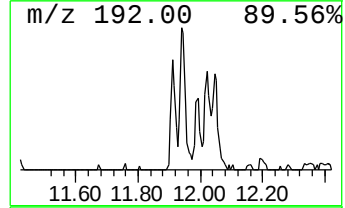
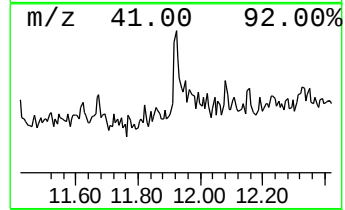
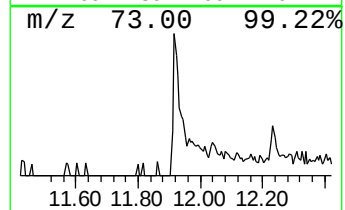
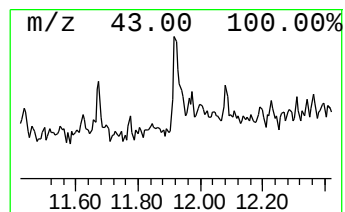
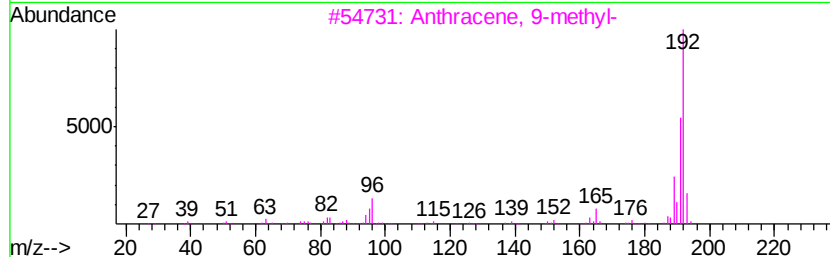
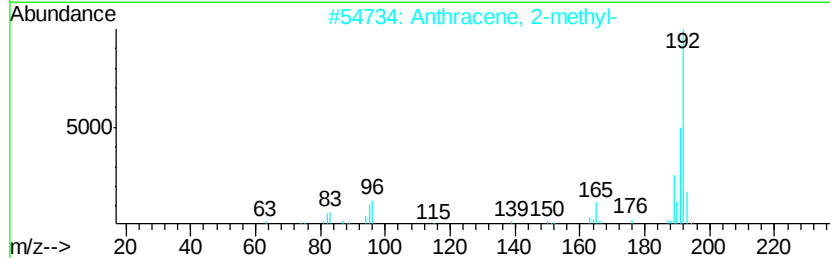
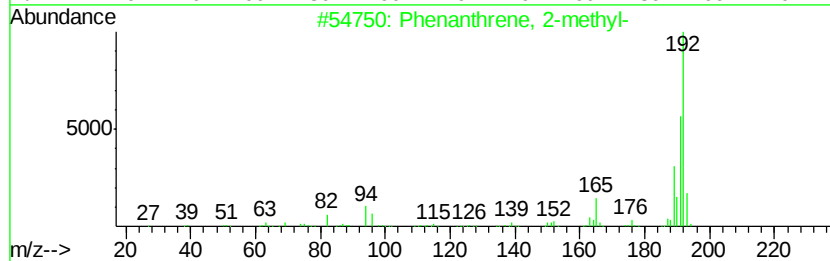
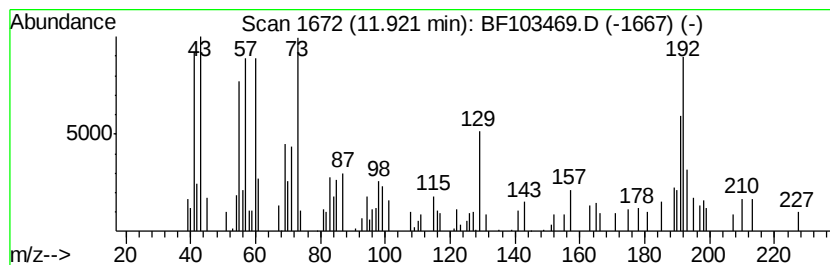
Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.      | EstConc                 | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|-------|------------------|-------------|------|
| 11.92     | 2.12 ng                 | 89588 | Phenanthrene-d10 | 11.41       |      |
| Hit# of 5 | Tentative ID            | MW    | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192   | C15H12           | 002531-84-2 | 60   |
| 2         | Anthracene, 2-methyl-   | 192   | C15H12           | 000613-12-7 | 58   |
| 3         | Anthracene, 9-methyl-   | 192   | C15H12           | 000779-02-2 | 50   |
| 4         | Anthracene, 1-methyl-   | 192   | C15H12           | 000610-48-0 | 50   |
| 5         | 1H-Indene, 2-phenyl-    | 192   | C15H12           | 004505-48-0 | 46   |



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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
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SP-9

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

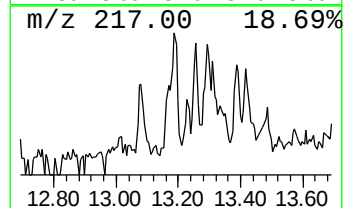
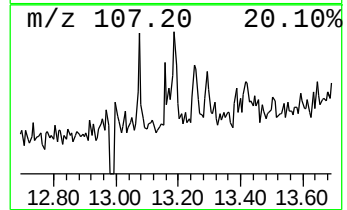
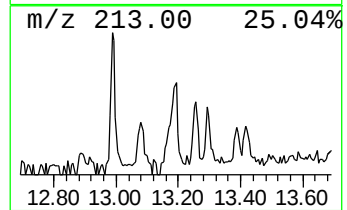
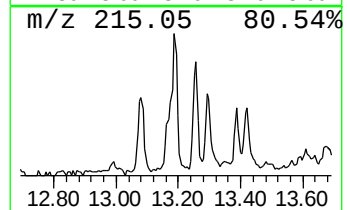
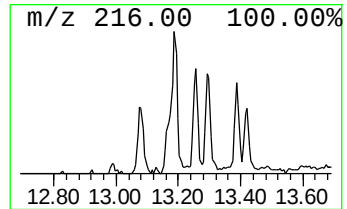
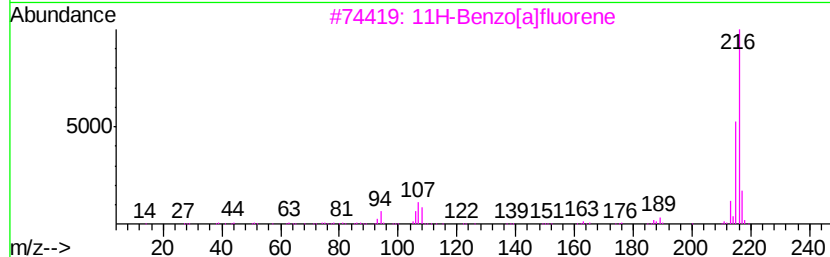
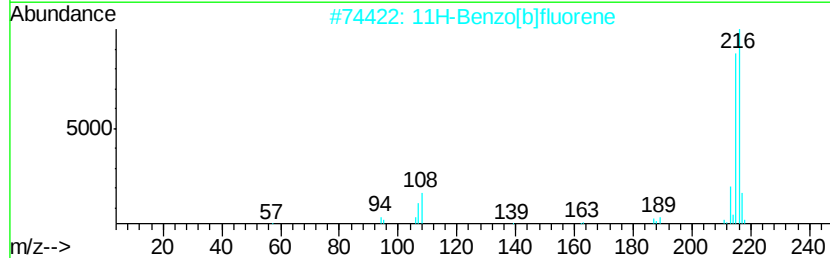
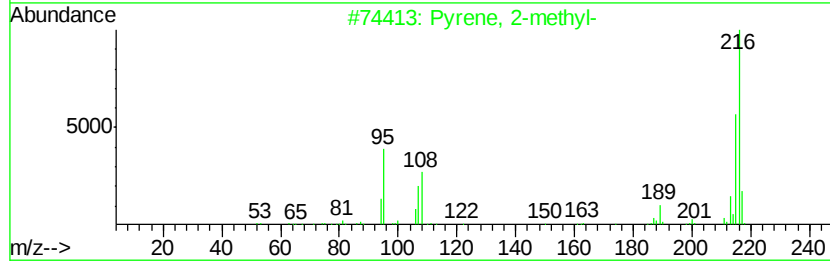
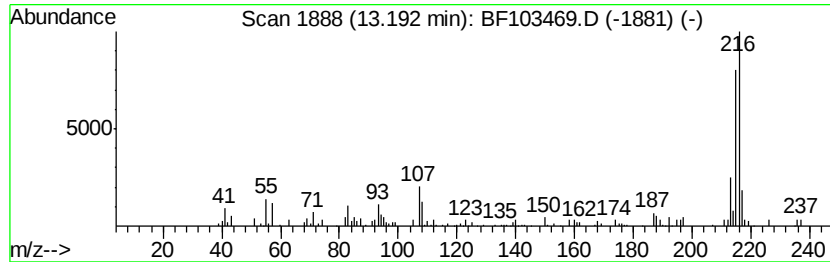
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pyrene, 2-methyl- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.19 | 2.89 ng | 117376 | Chrysene-d12     | 14.06 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 94   |
| 2       |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 3       |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 4       |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 5       |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030618\  
Data File : BF103469.D  
Acq On : 6 Mar 2018 21:29  
Operator : SJ/JU  
Sample : J1722-13 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

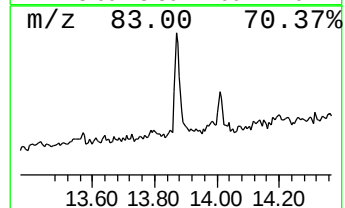
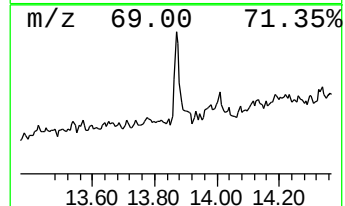
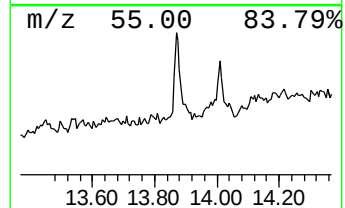
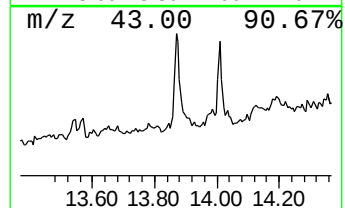
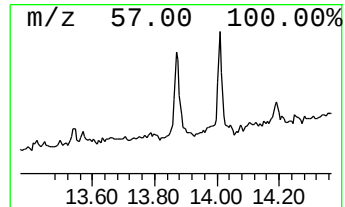
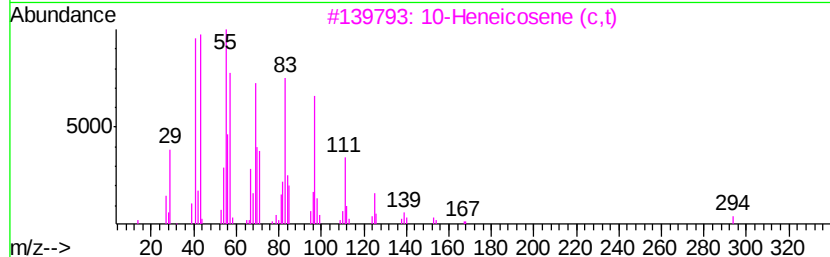
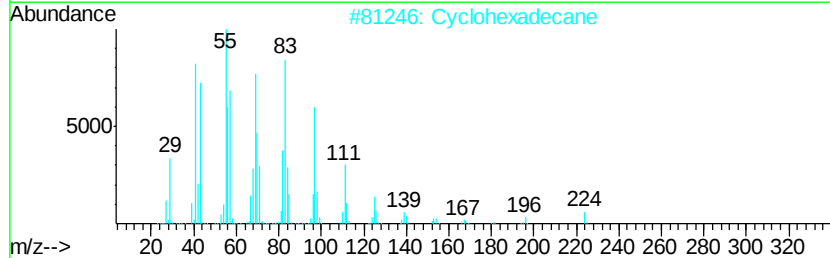
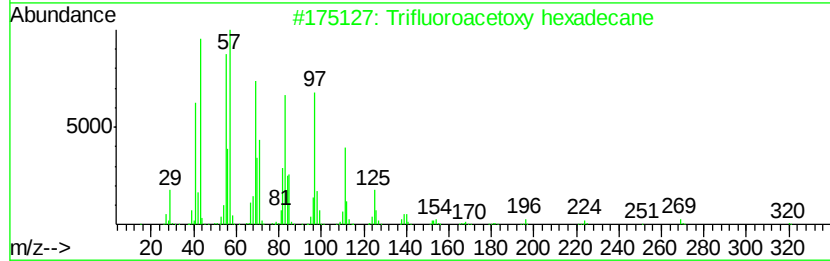
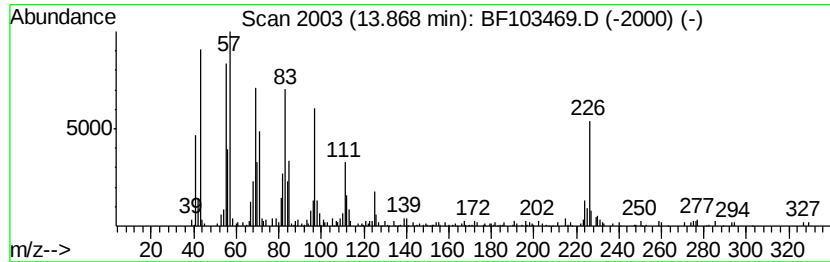
Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Trifluoroacetoxy hexadecane Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.87     | 6.35 ng                             | 258118 | Chrysene-d12     | 14.06       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Trifluoroacetoxy hexadecane         | 338    | C18H33F3O2       | 006222-03-3 | 93   |
| 2         | Cyclohexadecane                     | 224    | C16H32           | 000295-65-8 | 93   |
| 3         | 10-Heneicosene (c,t)                | 294    | C21H42           | 095008-11-0 | 92   |
| 4         | 1-Heneicosyl formate                | 340    | C22H44O2         | 077899-03-7 | 81   |
| 5         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 81   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030618\  
Data File : BF103469.D  
Acq On : 6 Mar 2018 21:29  
Operator : SJ/JU  
Sample : J1722-13 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-9

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown6.64          | 6.64  | 43.8    | ng    | 1762840  | 1                     | 6.87  | 804353 | 20.0 |
| Sulfurous acid, 2... | 10.80 | 2.1     | ng    | 90412    | 4                     | 11.41 | 845512 | 20.0 |
| Phenanthrene, 2-m... | 11.92 | 2.1     | ng    | 89588    | 4                     | 11.41 | 845512 | 20.0 |
| Pyrene, 2-methyl-    | 13.19 | 2.9     | ng    | 117376   | 5                     | 14.06 | 813269 | 20.0 |
| Trifluoroacetoxy ... | 13.87 | 6.3     | ng    | 258118   | 5                     | 14.06 | 813269 | 20.0 |