

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
 Data File : BF096297.D  
 Acq On : 29 Jun 2017 17:49  
 Operator : SJ/MA  
 Sample : I3952-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 23MC-WC-2(COMP)

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-BF062717.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         | 4.963       | 484           | 489         | 497          | rBV      | 355923         | 440178        | 13.19%          | 1.428%        |
| 2         | 5.381       | 555           | 560         | 563          | rBV      | 3055305        | 2852056       | 85.44%          | 9.254%        |
| 3         | 6.398       | 726           | 733         | 738          | rBV      | 3035612        | 3338044       | 100.00%         | 10.831%       |
| 4         | 6.539       | 752           | 757         | 760          | rBV      | 3130985        | 2988624       | 89.53%          | 9.697%        |
| 5         | 6.928       | 818           | 823         | 826          | rVB      | 2098146        | 1845570       | 55.29%          | 5.988%        |
| 6         | 7.328       | 886           | 891         | 894          | rBV      | 2128878        | 1950404       | 58.43%          | 6.329%        |
| 7         | 7.433       | 904           | 909         | 912          | rVB      | 69315          | 72896         | 2.18%           | 0.237%        |
| 8         | 7.775       | 960           | 967         | 969          | rBV      | 115628         | 158249        | 4.74%           | 0.513%        |
| 9         | 8.069       | 1015          | 1017        | 1020         | rVB      | 40985          | 36835         | 1.10%           | 0.120%        |
| 10        | 8.969       | 1163          | 1170        | 1174         | rBV9     | 20782          | 48279         | 1.45%           | 0.157%        |
| 11        | 9.127       | 1192          | 1197        | 1200         | rBV      | 3095099        | 2829072       | 84.75%          | 9.180%        |
| 12        | 9.222       | 1207          | 1213        | 1216         | rBV3     | 67991          | 71861         | 2.15%           | 0.233%        |
| 13        | 9.522       | 1260          | 1264        | 1266         | rBV      | 725734         | 616921        | 18.48%          | 2.002%        |
| 14        | 9.663       | 1284          | 1288        | 1291         | rBV      | 42363          | 48617         | 1.46%           | 0.158%        |
| 15        | 9.751       | 1300          | 1303        | 1307         | rVB      | 119134         | 101892        | 3.05%           | 0.331%        |
| 16        | 9.833       | 1315          | 1317        | 1320         | rBV      | 44825          | 34783         | 1.04%           | 0.113%        |
| 17        | 10.010      | 1339          | 1347        | 1350         | rBV2     | 125548         | 171186        | 5.13%           | 0.555%        |
| 18        | 10.086      | 1355          | 1360        | 1363         | rBV      | 131941         | 164438        | 4.93%           | 0.534%        |
| 19        | 10.245      | 1385          | 1387        | 1390         | rVB      | 135000         | 111843        | 3.35%           | 0.363%        |
| 20        | 10.345      | 1402          | 1404        | 1407         | rVB      | 51079          | 38981         | 1.17%           | 0.126%        |
| 21        | 10.416      | 1413          | 1416        | 1421         | rVB      | 49942          | 63650         | 1.91%           | 0.207%        |
| 22        | 10.469      | 1421          | 1425        | 1428         | rBV      | 37703          | 52392         | 1.57%           | 0.170%        |
| 23        | 10.586      | 1441          | 1445        | 1449         | rBV      | 2049042        | 2031115       | 60.85%          | 6.591%        |
| 24        | 10.722      | 1465          | 1468        | 1475         | rVB      | 155177         | 212101        | 6.35%           | 0.688%        |
| 25        | 10.927      | 1499          | 1503        | 1505         | rBV4     | 74343          | 100003        | 3.00%           | 0.324%        |
| 26        | 11.169      | 1541          | 1544        | 1547         | rBV2     | 80559          | 75847         | 2.27%           | 0.246%        |
| 27        | 11.304      | 1564          | 1567        | 1571         | rBV      | 472756         | 429497        | 12.87%          | 1.394%        |
| 28        | 11.357      | 1573          | 1576        | 1579         | rVB      | 102543         | 92913         | 2.78%           | 0.301%        |
| 29        | 11.398      | 1579          | 1583        | 1586         | rBV4     | 50502          | 71015         | 2.13%           | 0.230%        |
| 30        | 11.592      | 1614          | 1616        | 1618         | rBV2     | 43081          | 40480         | 1.21%           | 0.131%        |
| 31        | 11.786      | 1646          | 1649        | 1650         | rBV      | 98051          | 93411         | 2.80%           | 0.303%        |
| 32        | 11.821      | 1650          | 1655        | 1659         | rVB2     | 934752         | 1178641       | 35.31%          | 3.824%        |
| 33        | 11.892      | 1664          | 1667        | 1670         | rBV      | 135119         | 140859        | 4.22%           | 0.457%        |
| 34        | 11.957      | 1675          | 1678        | 1680         | rBV4     | 65877          | 88991         | 2.67%           | 0.289%        |

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

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-BF062717.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.080 | 1696 | 1699 | 1700 | rBV2 | 67971   | 57692   | 1.73%  | 0.187% |
| 36 | 12.333 | 1740 | 1742 | 1746 | rBV  | 76882   | 66138   | 1.98%  | 0.215% |
| 37 | 12.492 | 1766 | 1769 | 1773 | rBV  | 660904  | 614772  | 18.42% | 1.995% |
| 38 | 12.610 | 1783 | 1789 | 1802 | rVB  | 1671551 | 2816258 | 84.37% | 9.138% |
| 39 | 12.721 | 1802 | 1808 | 1811 | rVB  | 590331  | 601035  | 18.01% | 1.950% |
| 40 | 12.868 | 1829 | 1833 | 1837 | rVB  | 2425410 | 2233637 | 66.91% | 7.248% |
| 41 | 13.115 | 1872 | 1875 | 1878 | rBV  | 87616   | 73069   | 2.19%  | 0.237% |
| 42 | 13.151 | 1879 | 1881 | 1884 | rVB  | 67499   | 52453   | 1.57%  | 0.170% |
| 43 | 13.692 | 1971 | 1973 | 1975 | rBV2 | 52417   | 47507   | 1.42%  | 0.154% |
| 44 | 13.768 | 1983 | 1986 | 1994 | rVB2 | 261969  | 305007  | 9.14%  | 0.990% |
| 45 | 13.904 | 2006 | 2009 | 2012 | rBV2 | 269751  | 272811  | 8.17%  | 0.885% |
| 46 | 13.939 | 2012 | 2015 | 2019 | rVB  | 197941  | 177775  | 5.33%  | 0.577% |
| 47 | 14.927 | 2180 | 2183 | 2187 | rBV  | 161709  | 260117  | 7.79%  | 0.844% |
| 48 | 15.221 | 2229 | 2233 | 2238 | rVV  | 120412  | 162802  | 4.88%  | 0.528% |
| 49 | 15.274 | 2239 | 2242 | 2247 | rVB  | 156702  | 181931  | 5.45%  | 0.590% |
| 50 | 16.039 | 2369 | 2372 | 2381 | rVB8 | 101047  | 219457  | 6.57%  | 0.712% |
| 51 | 17.139 | 2556 | 2559 | 2563 | rVB  | 54252   | 84662   | 2.54%  | 0.275% |

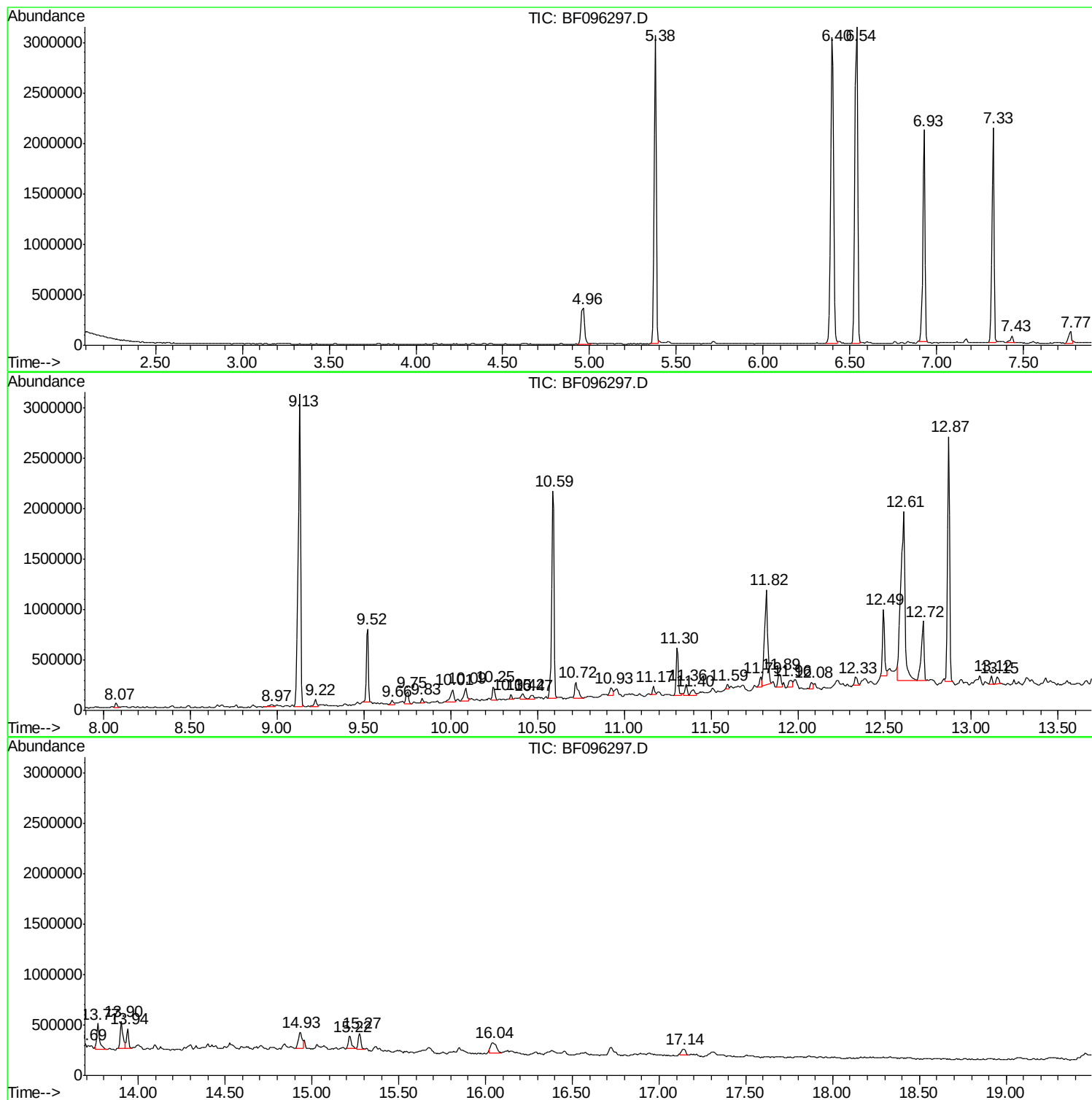
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

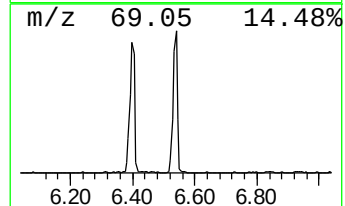
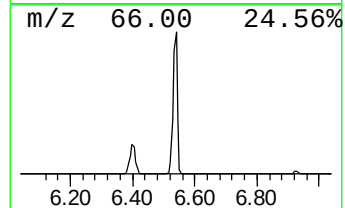
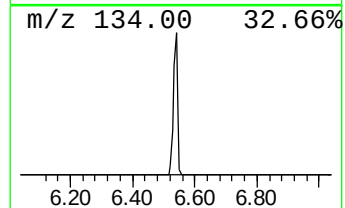
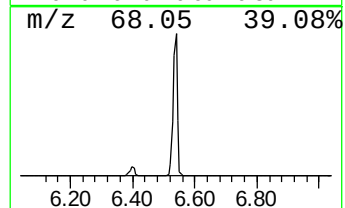
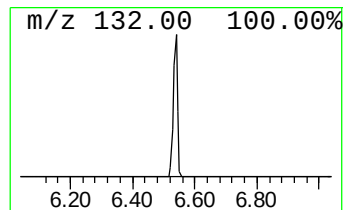
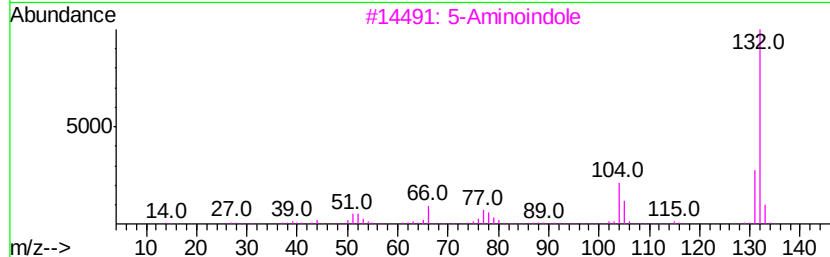
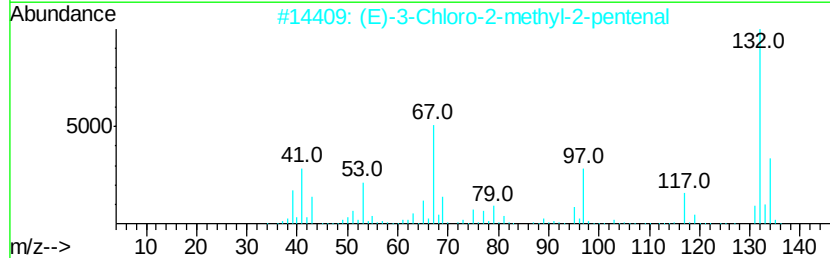
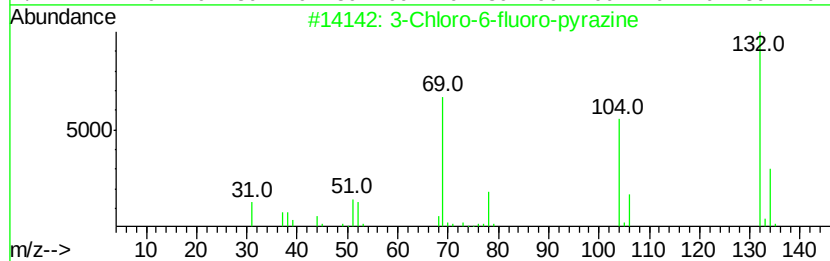
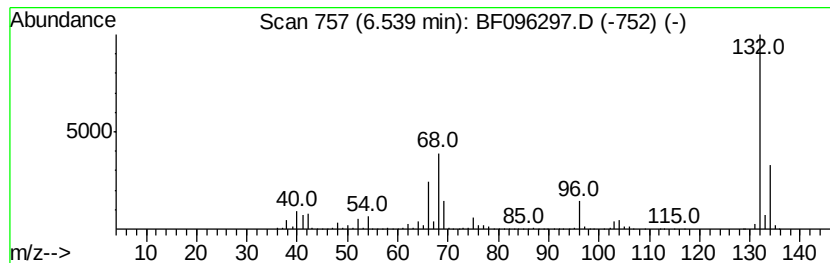
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.54 Concentration Rank 6

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.54 | 32.39 ng | 2988620 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

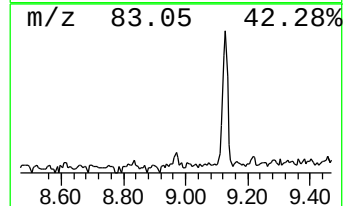
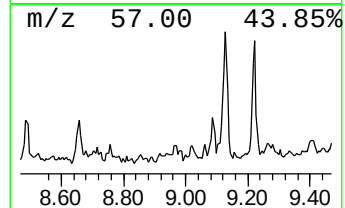
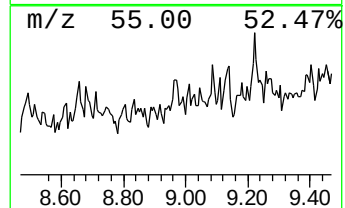
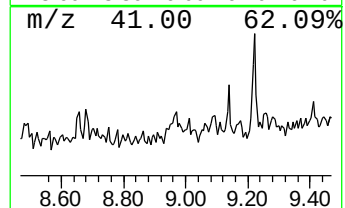
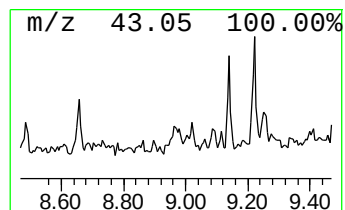
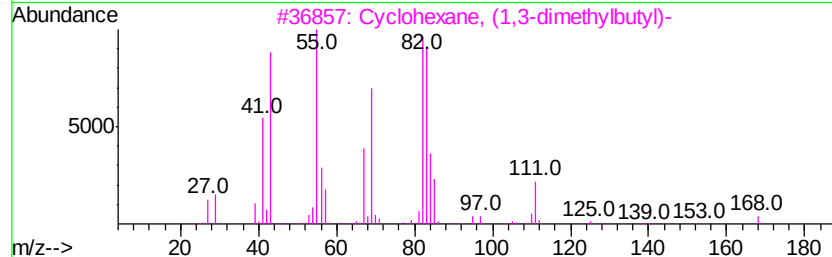
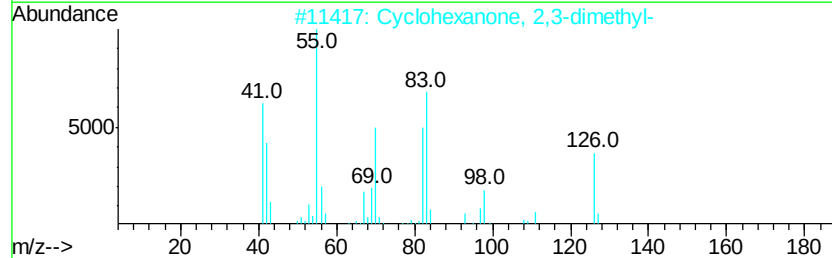
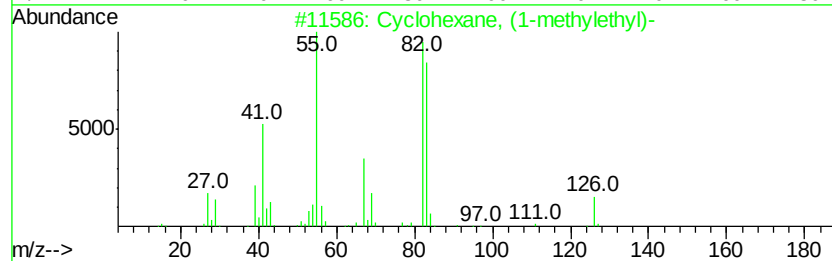
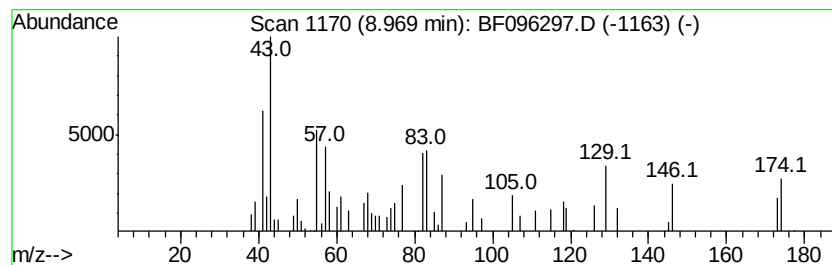
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown8.97 Concentration Rank 9

| R.T. | EstConc  | Area  | Relative to ISTD | R.T. |
|------|----------|-------|------------------|------|
| 8.97 | 26.21 ng | 48279 | Napthalene-d8    | 8.29 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclohexane, (1-methylethyl)-      | 126 | C9H18    | 000696-29-7 | 38   |
| 2    |    | Cyclohexanone, 2,3-dimethyl-       | 126 | C8H14O   | 013395-76-1 | 22   |
| 3    |    | Cyclohexane, (1,3-dimethylbutyl)-  | 168 | C12H24   | 061142-19-6 | 16   |
| 4    |    | Propanedinitrile, cyclooctylidene- | 174 | C11H14N2 | 040106-05-6 | 16   |
| 5    |    | 5-Hepten-2-one, 4,6-dimethyl-      | 140 | C9H16O   | 031162-48-8 | 14   |



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Instrument :  
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23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

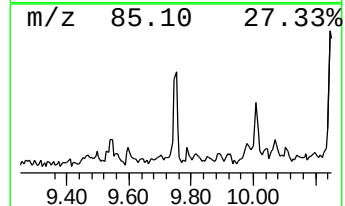
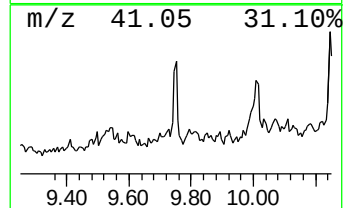
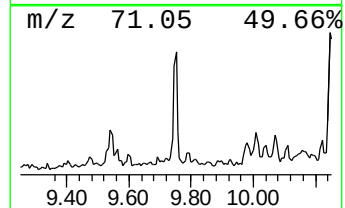
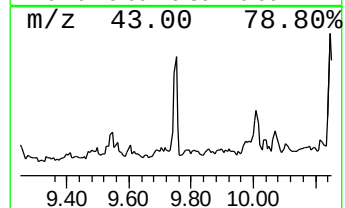
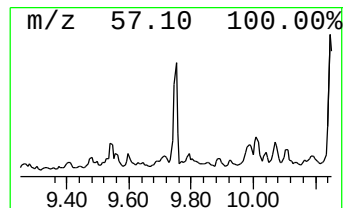
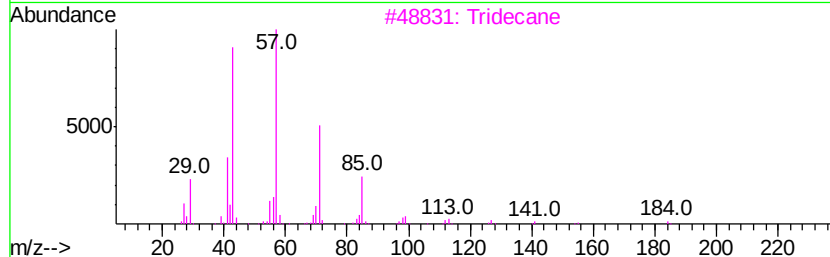
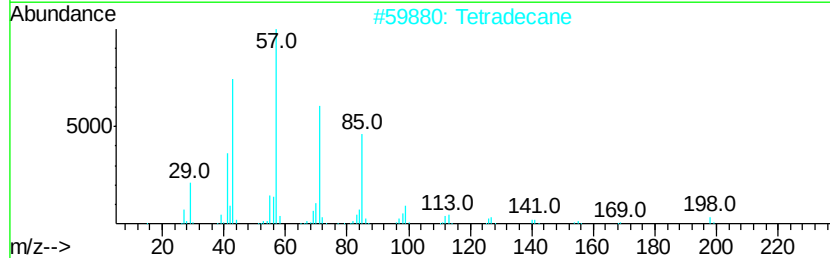
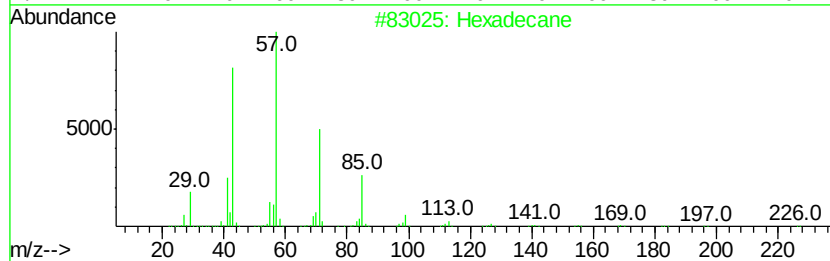
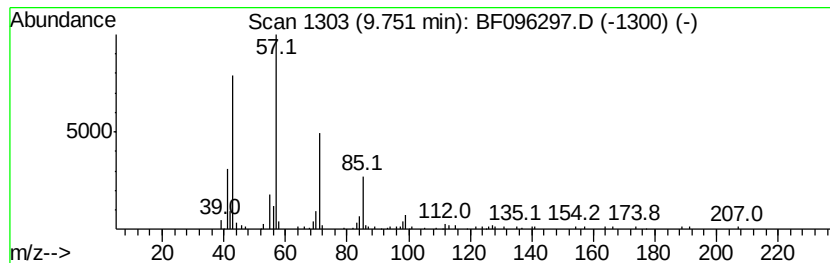
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Hexadecane Concentration Rank 20

| R.T. | EstConc  | Area   | Relative to ISTD | R.T.  |
|------|----------|--------|------------------|-------|
| 9.75 | 12.39 ng | 101892 | Acenaphthene-d10 | 10.09 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 86   |
| 2       | Tetradecane              |              | 198 | C14H30  | 000629-59-4 | 83   |
| 3       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 80   |
| 4       | Dodecane                 |              | 170 | C12H26  | 000112-40-3 | 78   |
| 5       | Decane, 2,3,6-trimethyl- |              | 184 | C13H28  | 062238-12-4 | 72   |



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ALS Vial : 3 Sample Multiplier: 1

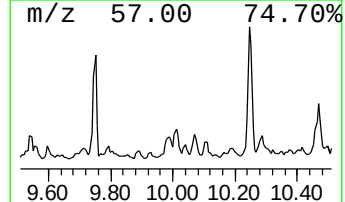
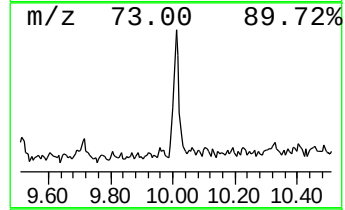
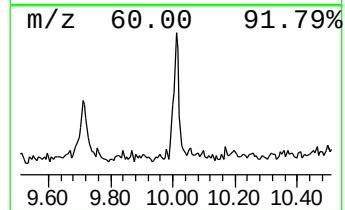
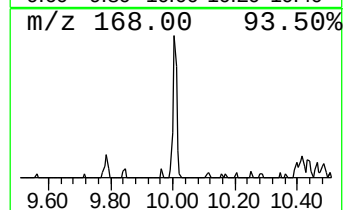
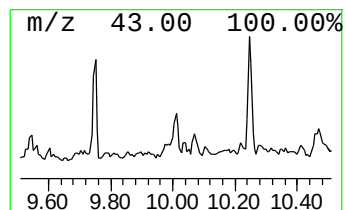
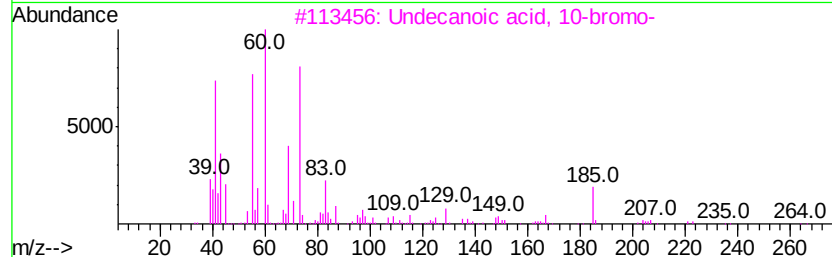
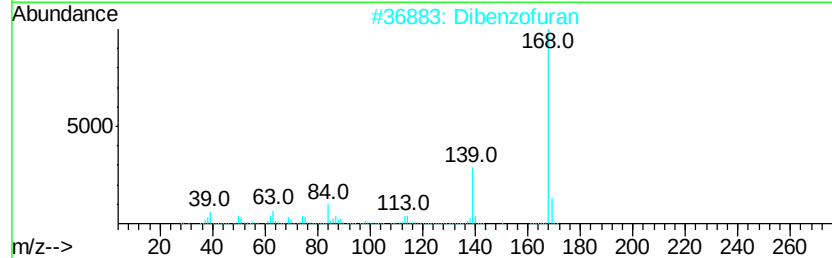
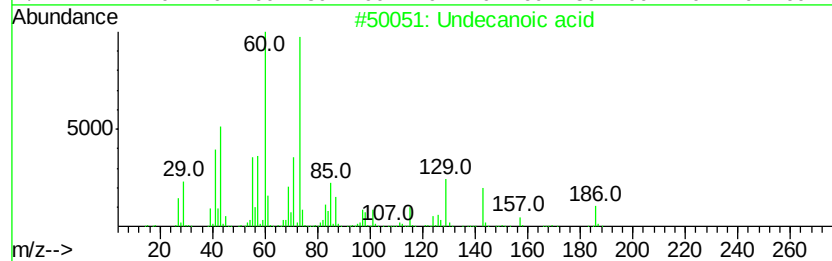
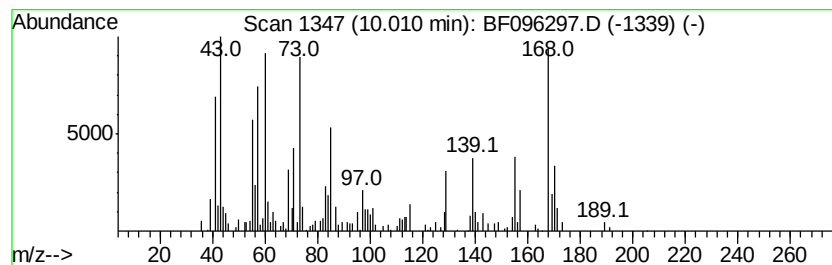
Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 unknown10.01 Concentration Rank 14

| R.T.      | EstConc                            | Area   | Relative to ISTD |             | R.T.  |
|-----------|------------------------------------|--------|------------------|-------------|-------|
| 10.01     | 20.82 ng                           | 171186 | Acenaphthene-d10 |             | 10.09 |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#        | Qual  |
| 1         | Undecanoic acid                    | 186    | C11H22O2         | 000112-37-8 | 22    |
| 2         | Dibenzofuran                       | 168    | C12H8O           | 000132-64-9 | 15    |
| 3         | Undecanoic acid, 10-bromo-         | 264    | C11H21BrO2       | 018294-93-4 | 14    |
| 4         | Octanoic acid, silver(1+) salt     | 250    | C8H15AgO2        | 024927-67-1 | 14    |
| 5         | 5,6-Dihydroxythieno(3,4-b)pyrazine | 168    | C6H4N2O2S        | 090070-10-3 | 14    |



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Operator : SJ/MA  
Sample : I3952-01  
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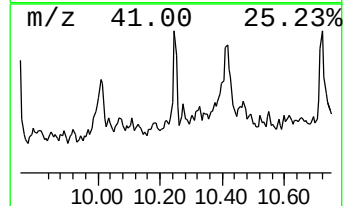
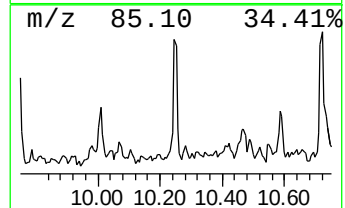
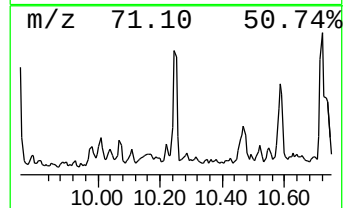
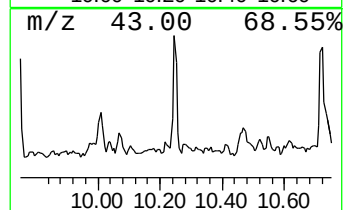
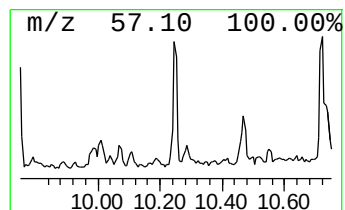
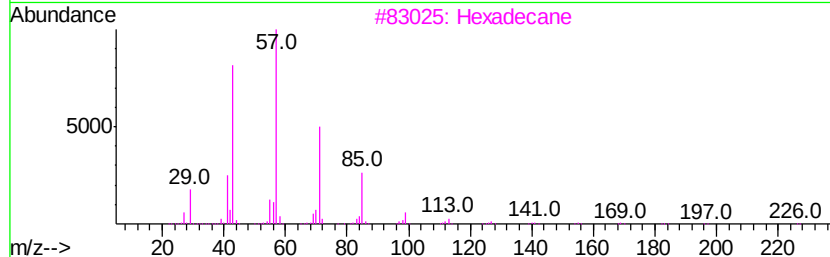
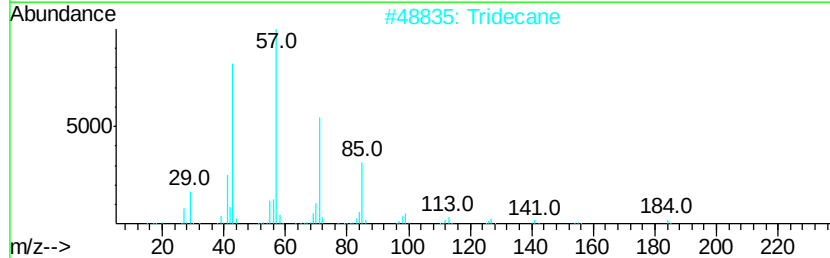
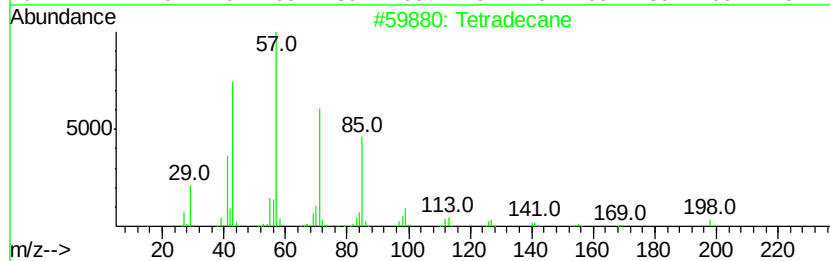
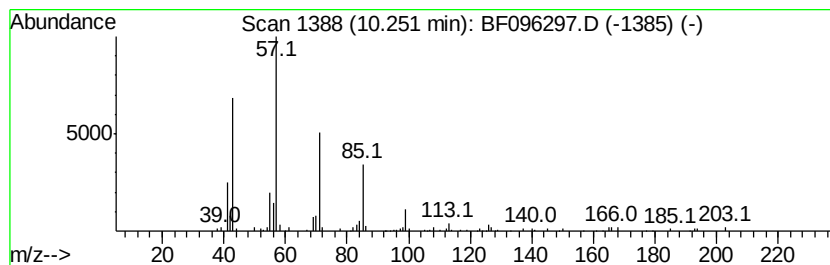
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23MC-WC-2(COMP)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Tetradecane Concentration Rank 19

| R.T.      | EstConc                      | Area   | Relative to ISTD |             | R.T.  |
|-----------|------------------------------|--------|------------------|-------------|-------|
| 10.25     | 13.60 ng                     | 111843 | Acenaphthene-d10 |             | 10.09 |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#        | Qual  |
| 1         | Tetradecane                  | 198    | C14H30           | 000629-59-4 | 90    |
| 2         | Tridecane                    | 184    | C13H28           | 000629-50-5 | 90    |
| 3         | Hexadecane                   | 226    | C16H34           | 000544-76-3 | 90    |
| 4         | Undecane                     | 156    | C11H24           | 001120-21-4 | 72    |
| 5         | Dodecane, 2-methyl-6-propyl- | 226    | C16H34           | 055045-08-4 | 72    |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
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Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

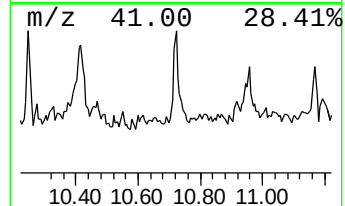
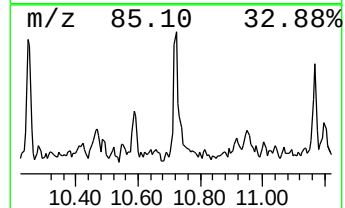
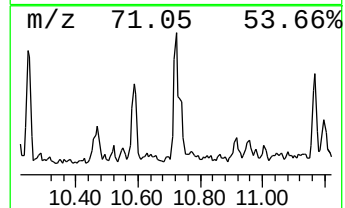
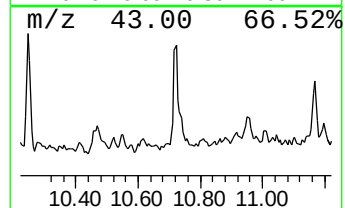
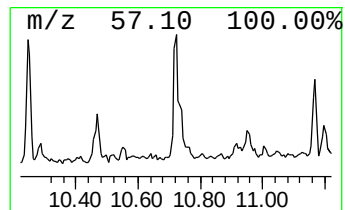
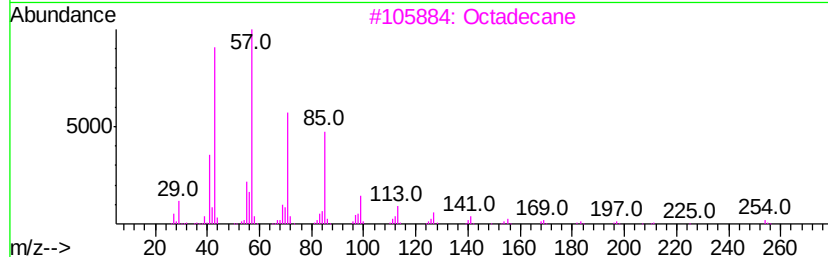
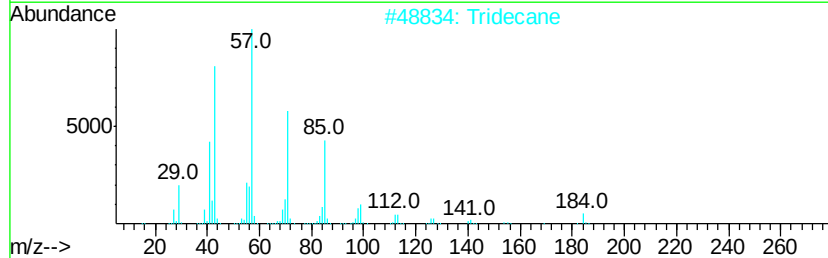
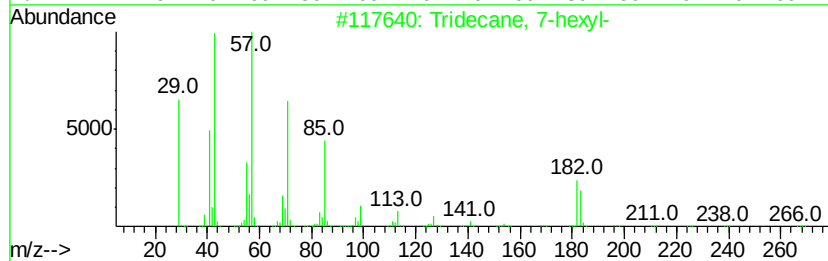
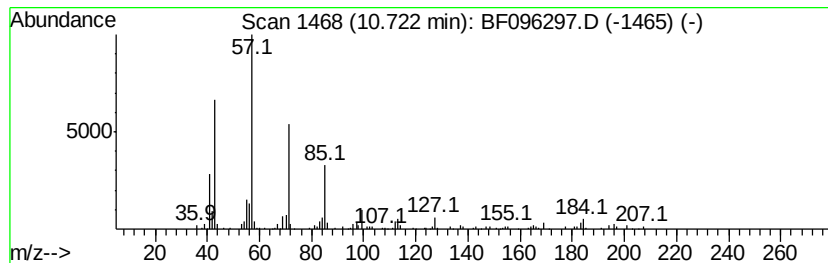
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Tridecane, 7-hexyl- Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.72 | 25.80 ng | 212101 | Acenaphthene-d10 | 10.09 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------|-----|---------|-------------|------|
| 1       |   | Tridecane, 7-hexyl- | 268 | C19H40  | 007225-66-3 | 86   |
| 2       |   | Tridecane           | 184 | C13H28  | 000629-50-5 | 86   |
| 3       |   | Octadecane          | 254 | C18H38  | 000593-45-3 | 80   |
| 4       |   | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 80   |
| 5       |   | Tetradecane         | 198 | C14H30  | 000629-59-4 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096297.D  
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Operator : SJ/MA  
Sample : I3952-01  
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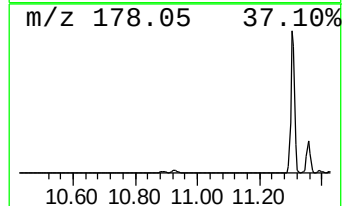
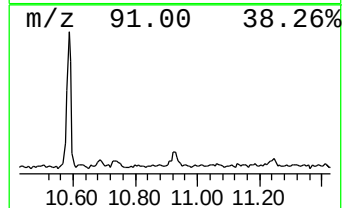
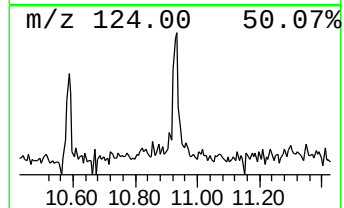
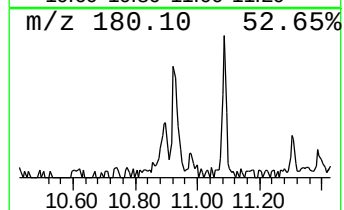
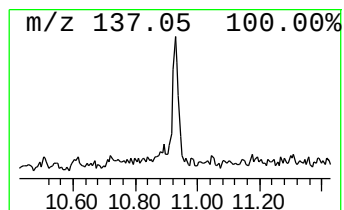
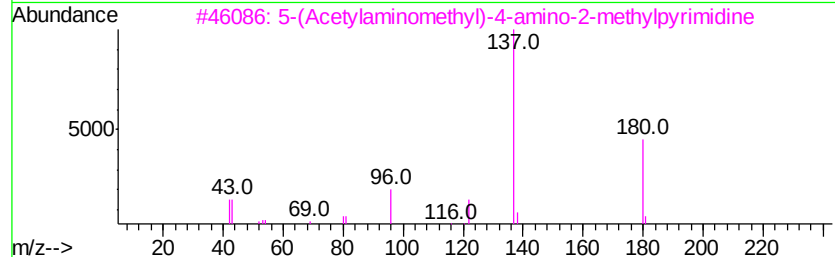
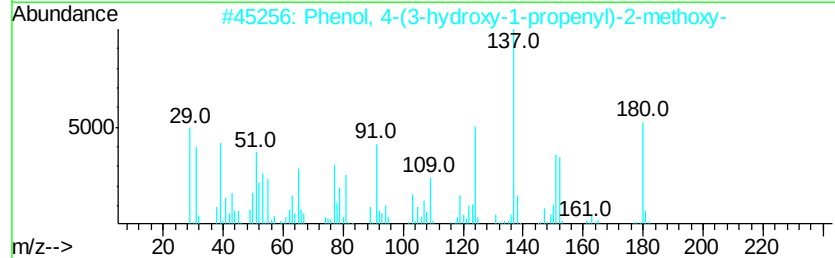
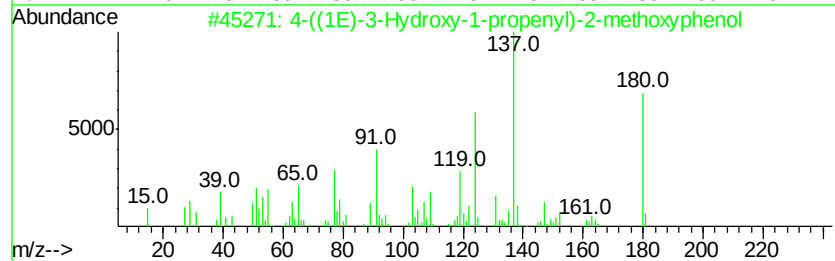
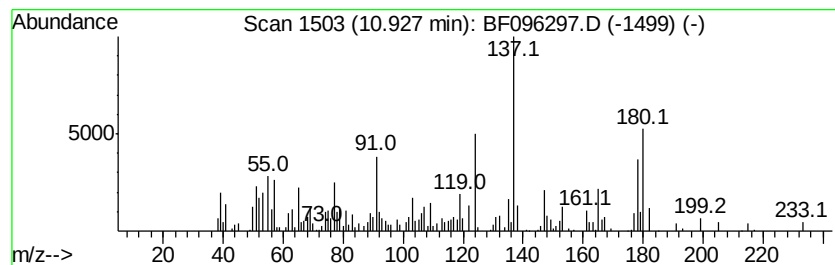
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23MC-WC-2(COMP)

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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 9 4-((1E)-3-Hydroxy-1-propeny... Concentration Rank 7

| R.T.    | EstConc                                          | Area         | Relative to ISTD |              | R.T.  |      |
|---------|--------------------------------------------------|--------------|------------------|--------------|-------|------|
| 10.93   | 28.16 ng                                         | 100003       | Phenanthrene-d10 |              | 11.43 |      |
| Hit# of | 5                                                | Tentative ID | MW               | MolForm      | CAS#  | Qual |
| 1       | 4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol    | 180          | C10H12O3         | 1000297-95-5 | 55    |      |
| 2       | Phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-      | 180          | C10H12O3         | 000458-35-5  | 46    |      |
| 3       | 5-(Acetylaminomethyl)-4-amino-2-methylpyrimidine | 180          | C8H12N4O         | 023676-63-3  | 27    |      |
| 4       | Pyrazine, 2-methoxy-3-(1-methylethyl)-           | 152          | C8H12N2O         | 025773-40-4  | 27    |      |
| 5       | 6-Methoxycoumaran-7-ol-3-one                     | 180          | C9H8O4           | 204648-65-7  | 14    |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
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Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

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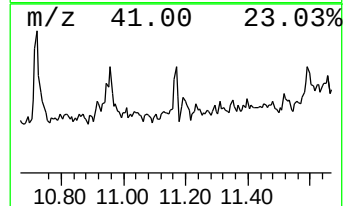
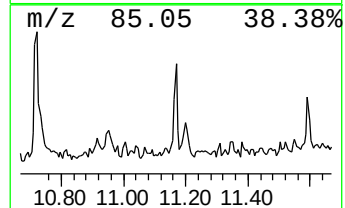
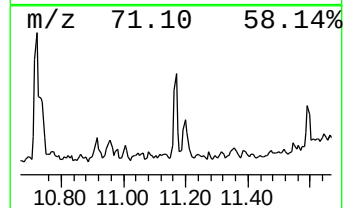
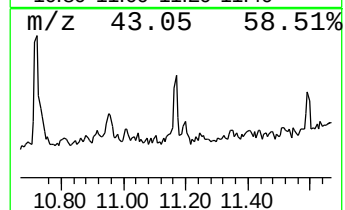
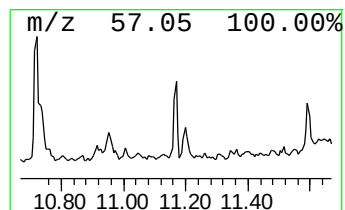
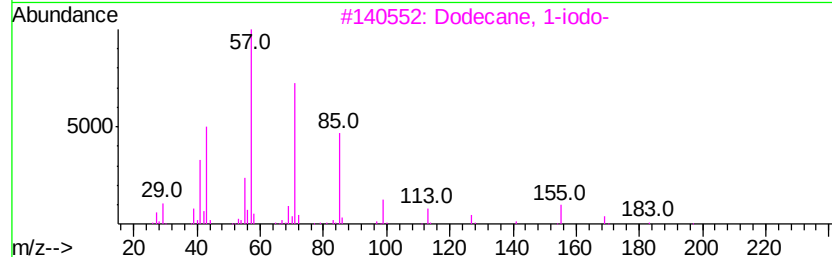
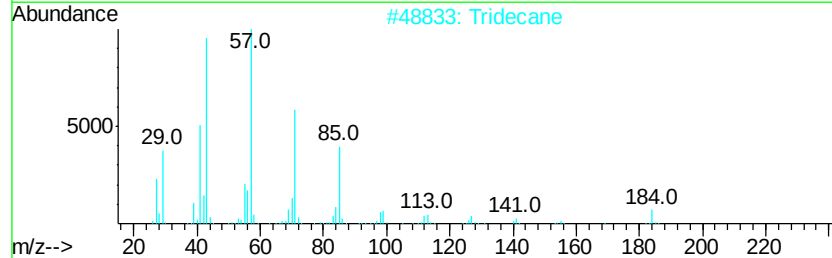
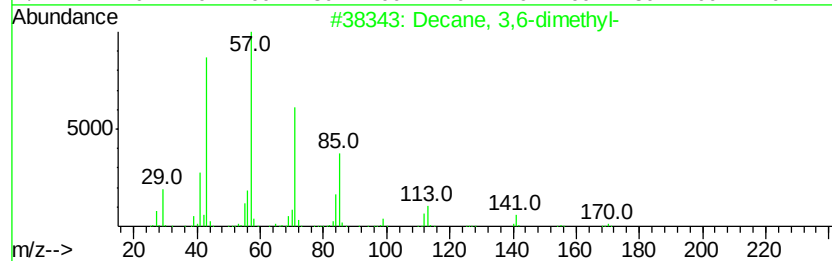
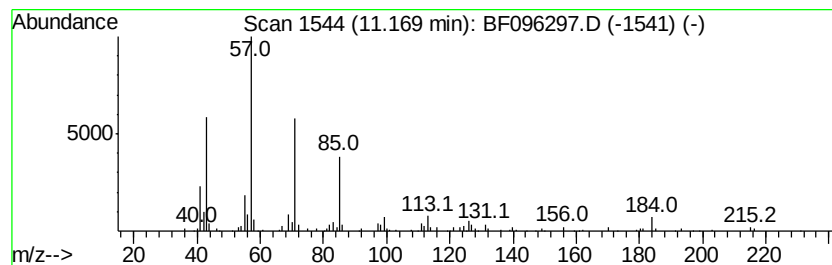
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Decane, 3,6-dimethyl- Concentration Rank 13

| R.T.  | EstConc  | Area  | Relative to ISTD | R.T.  |
|-------|----------|-------|------------------|-------|
| 11.17 | 21.36 ng | 75847 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Decane, 3,6-dimethyl-                | 170 | C12H26   | 017312-53-7  | 72   |
| 2    |    | Tridecane                            | 184 | C13H28   | 000629-50-5  | 72   |
| 3    |    | Dodecane, 1-iodo-                    | 296 | C12H25I  | 004292-19-7  | 58   |
| 4    |    | Glutaric acid, tetrahydrofurfuryl... | 398 | C23H42O5 | 1000359-66-9 | 53   |
| 5    |    | Glutaric acid, dodecyl tetrahydr...  | 384 | C22H40O5 | 1000359-66-8 | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
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Operator : SJ/MA  
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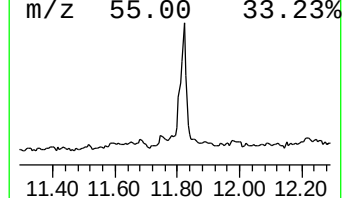
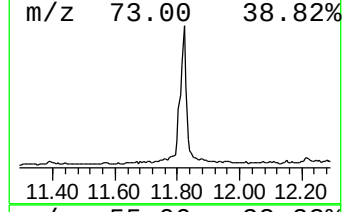
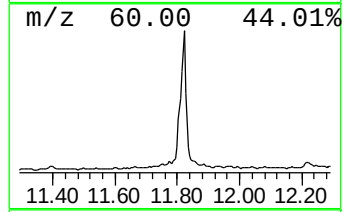
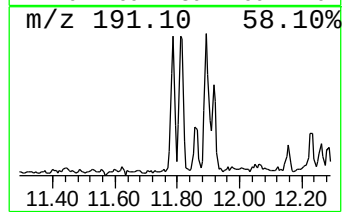
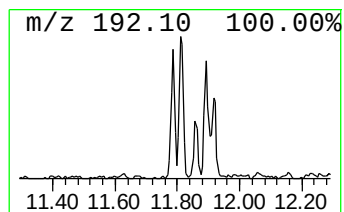
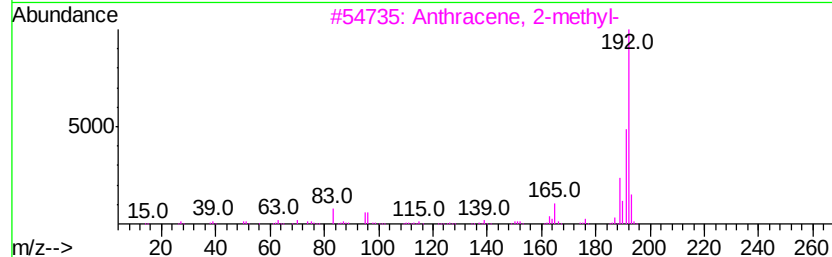
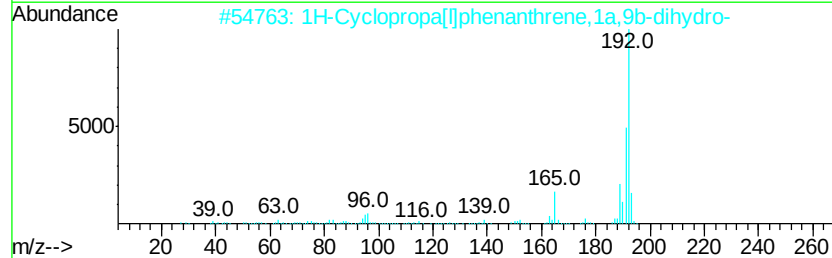
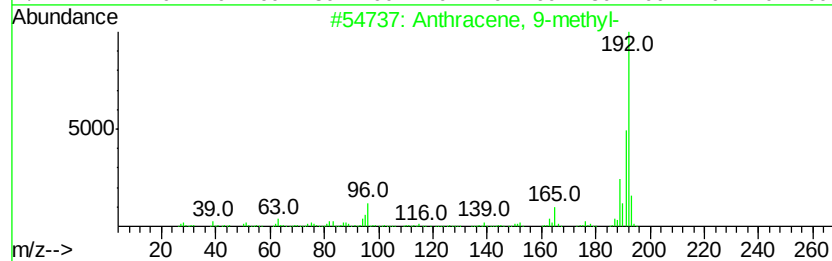
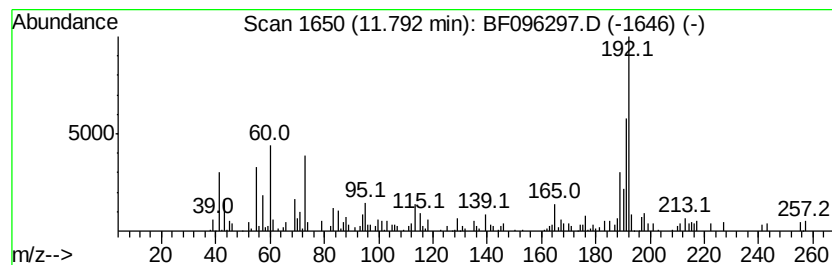
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23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.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 11 Anthracene, 9-methyl- Concentration Rank 8

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 11.79     | 26.31 ng                            | 93411 | Phenanthrene-d10 | 11.43       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | Anthracene, 9-methyl-               | 192   | C15H12           | 000779-02-2 | 93   |
| 2         | 1H-Cyclopropa[1]phenanthrene,1a,... | 192   | C15H12           | 000949-41-7 | 87   |
| 3         | Anthracene, 2-methyl-               | 192   | C15H12           | 000613-12-7 | 81   |
| 4         | Phenanthrene, 1-methyl-             | 192   | C15H12           | 000832-69-9 | 81   |
| 5         | Phenanthrene, 2-methyl-             | 192   | C15H12           | 002531-84-2 | 81   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

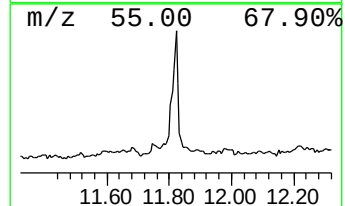
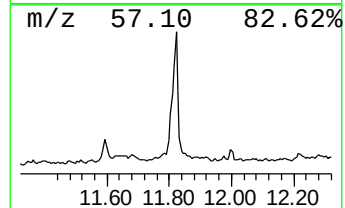
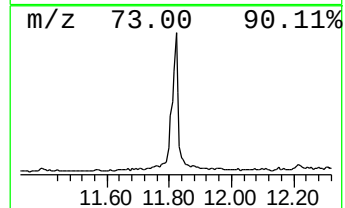
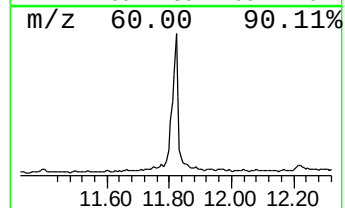
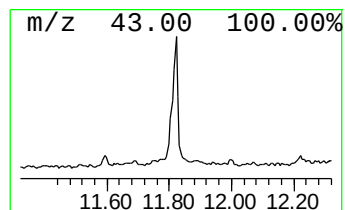
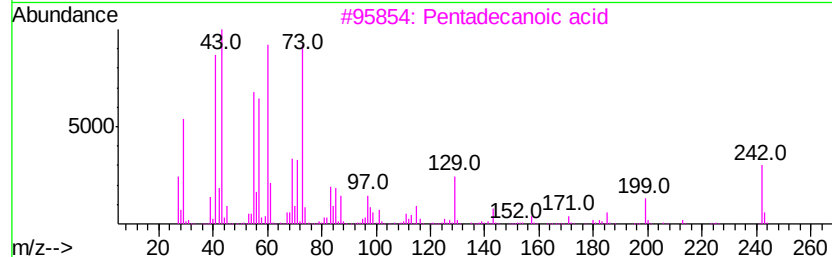
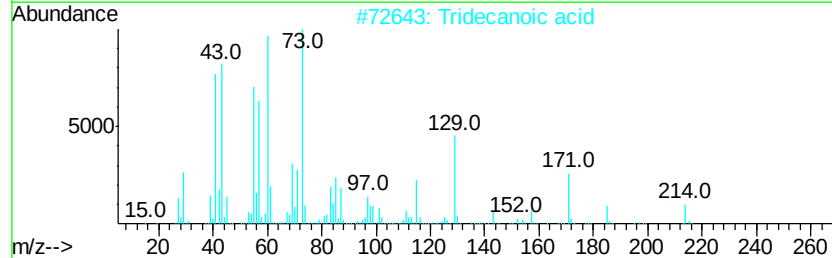
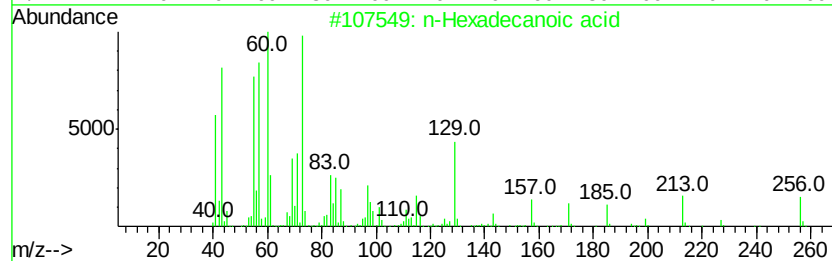
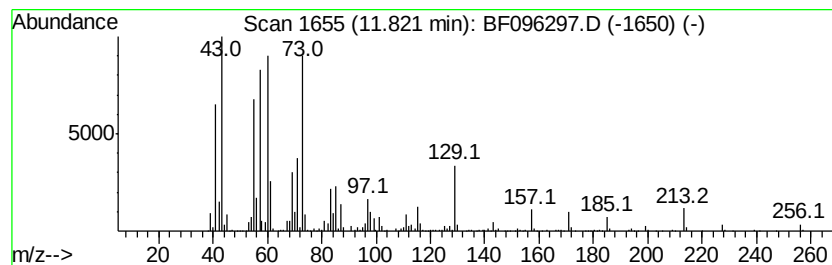
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 n-Hexadecanoic acid Concentration Rank 2

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 11.82 | 331.94 ng | 1178640 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|-----------|---------------------|-----|----------|-------------|------|
| 1         | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 94   |
| 2         | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3         | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 83   |
| 4         | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 76   |
| 5         | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

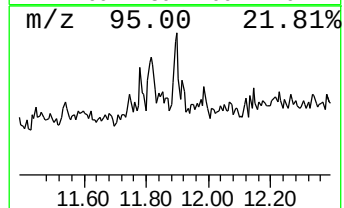
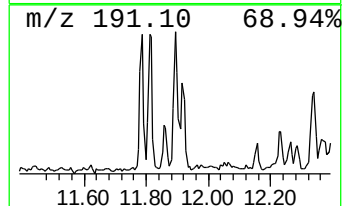
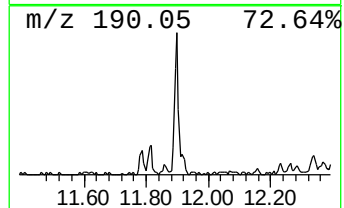
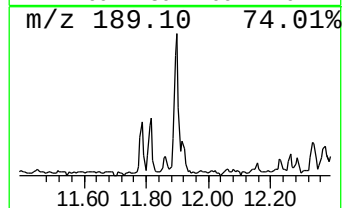
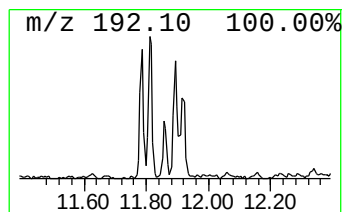
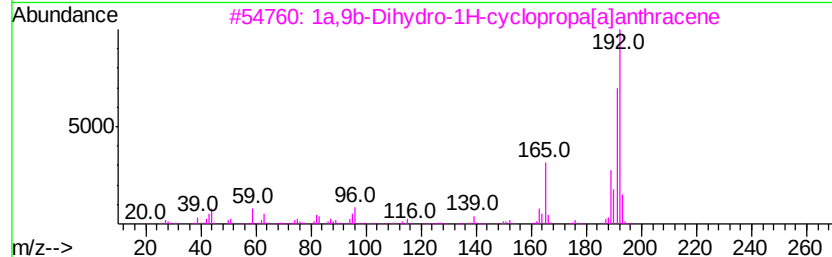
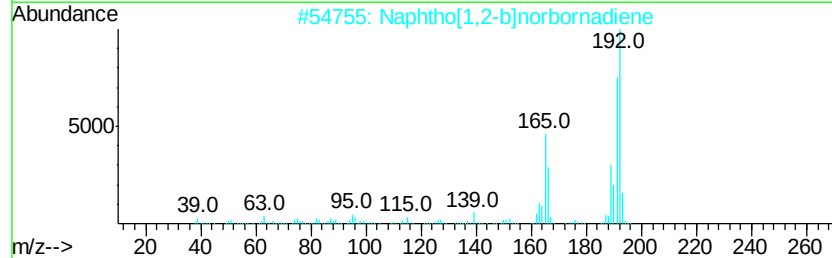
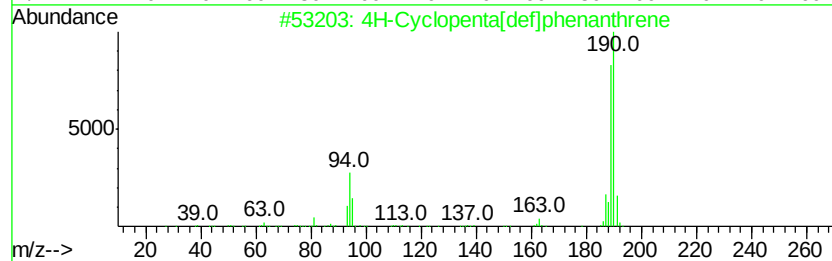
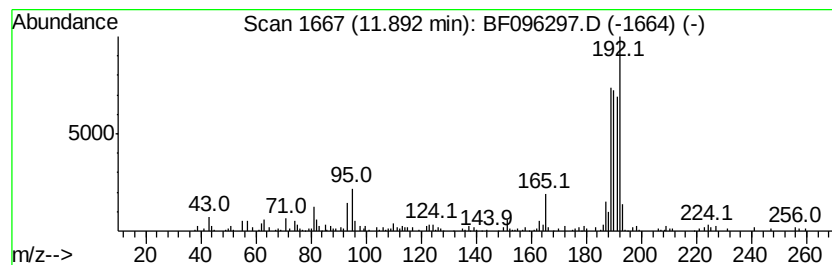
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.89 | 39.67 ng | 140859 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene        | 190 | C15H10  | 000203-64-5  | 50   |
| 2    |    | Naphtho[1,2-b]norbornadiene           | 192 | C15H12  | 1000210-14-8 | 50   |
| 3    |    | 1a,9b-Dihydro-1H-cyclopropa[fa]lan... | 192 | C15H12  | 006109-24-6  | 50   |
| 4    |    | Propyne, 1,3-diphenyl-                | 192 | C15H12  | 004980-70-5  | 45   |
| 5    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7  | 43   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF06297\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

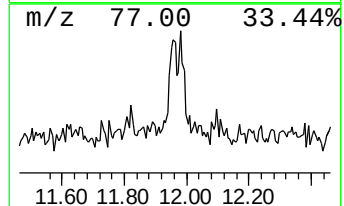
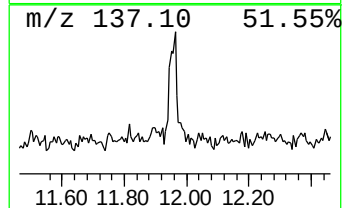
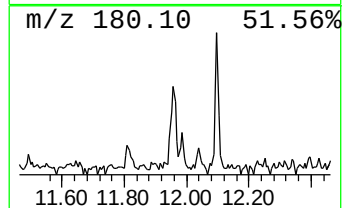
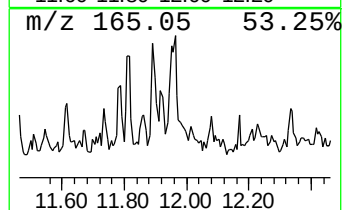
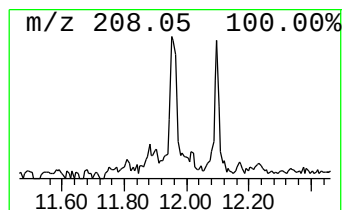
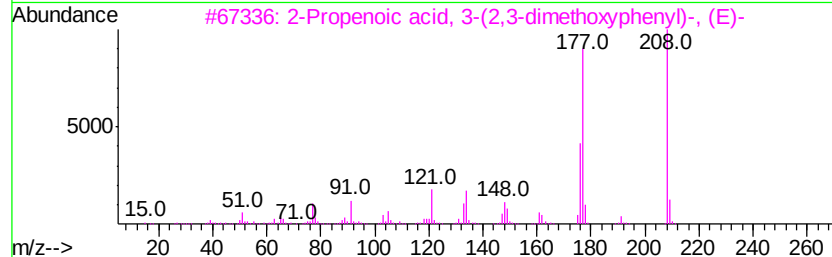
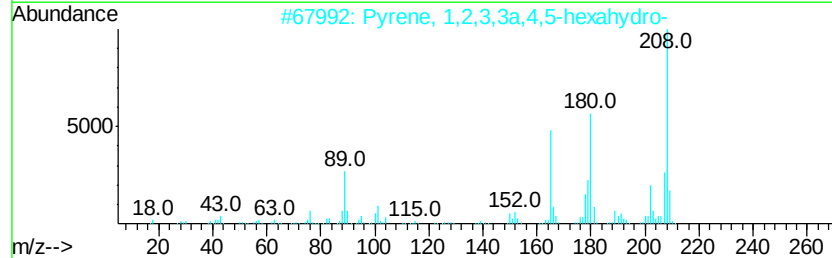
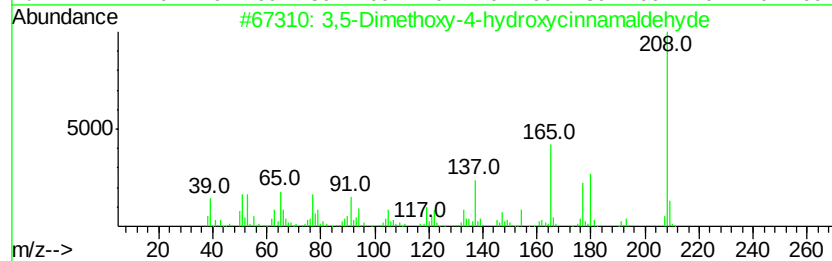
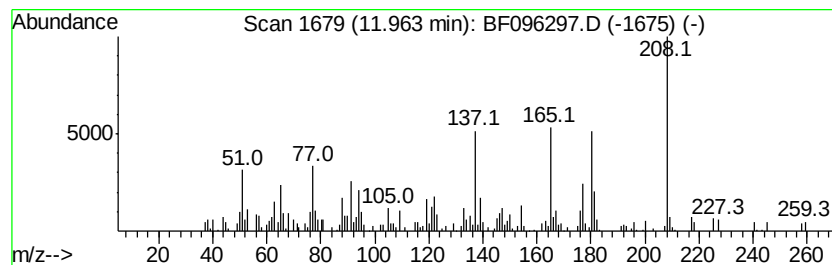
Instrument :  
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ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.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 14 3,5-Dimethoxy-4-hydroxycinn... Concentration Rank 11

| R.T.      | EstConc                                          | Area  | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------------------------|-------|------------------|--------------|------|
| 11.96     | 25.06 ng                                         | 88991 | Phenanthrene-d10 | 11.43        |      |
| Hit# of 5 | Tentative ID                                     | MW    | MolForm          | CAS#         | Qual |
| 1         | 3,5-Dimethoxy-4-hydroxycinnamaldehyde            | 208   | C11H12O4         | 087345-53-7  | 58   |
| 2         | Pyrene, 1,2,3,3a,4,5-hexahydro-                  | 208   | C16H16           | 005385-37-5  | 52   |
| 3         | 2-Propenoic acid, 3-(2,3-dimethoxyphenyl)-, (E)- | 208   | C11H12O4         | 007345-82-6  | 41   |
| 4         | 2,4,7-Pteridinetriol, 6-ethyl-                   | 208   | C8H8N4O3         | 031053-47-1  | 38   |
| 5         | 1H-1,3-Benzimidazole-6-carboxylic acid           | 208   | C9H8N2O2S        | 1000337-18-1 | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

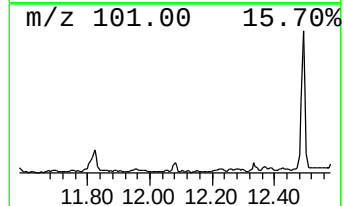
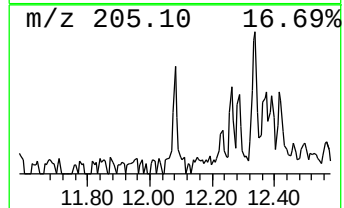
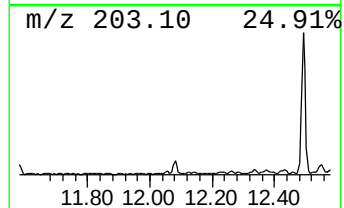
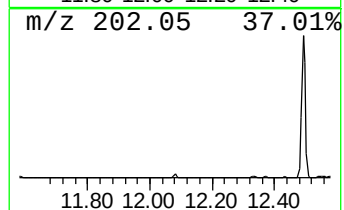
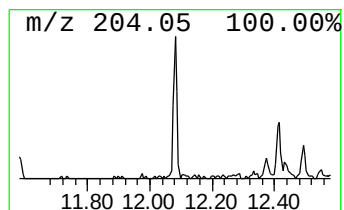
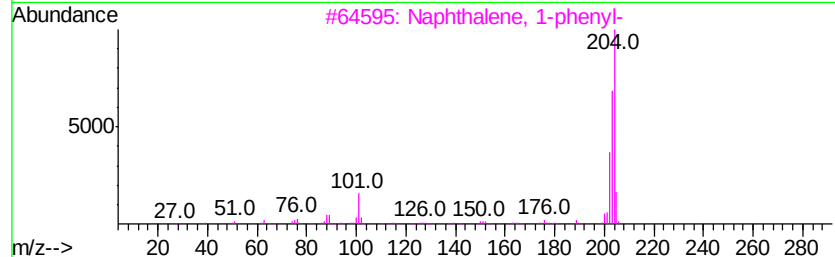
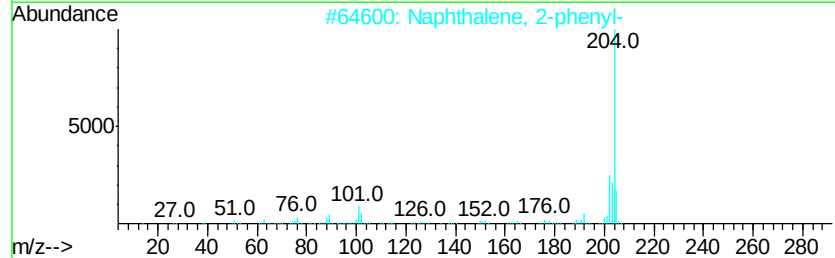
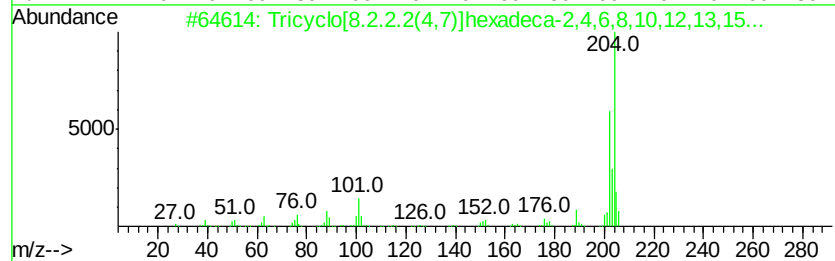
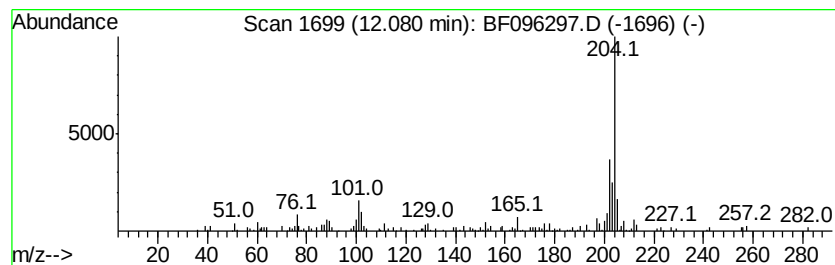
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 18

| R.T.  | EstConc  | Area  | Relative to ISTD | R.T.  |
|-------|----------|-------|------------------|-------|
| 12.08 | 16.25 ng | 57692 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tricyclo[8.2.2.2(4,7)]hexadeca-2...  | 204 | C16H12  | 006572-60-7 | 89   |
| 2    |    | Naphthalene, 2-phenyl-               | 204 | C16H12  | 000612-94-2 | 76   |
| 3    |    | Naphthalene, 1-phenyl-               | 204 | C16H12  | 000605-02-7 | 64   |
| 4    |    | 5H-Dibenzof[a,d]cycloheptene, 5-m... | 204 | C16H12  | 002975-79-3 | 53   |
| 5    |    | 3,4-Biphenyldicarbonitrile           | 204 | C14H8N2 | 004128-63-6 | 53   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

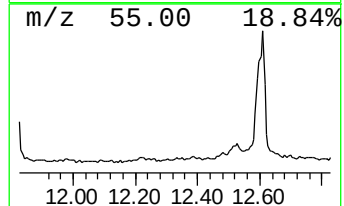
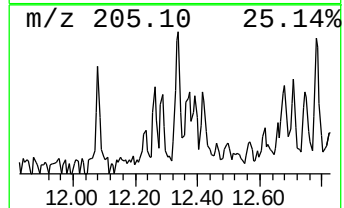
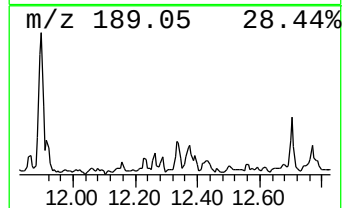
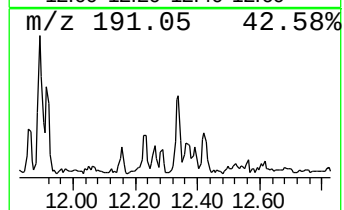
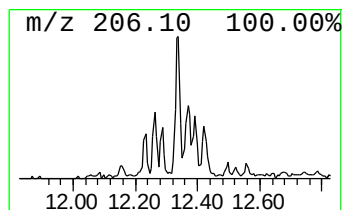
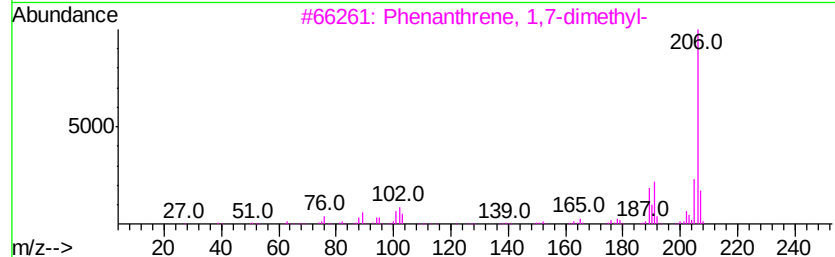
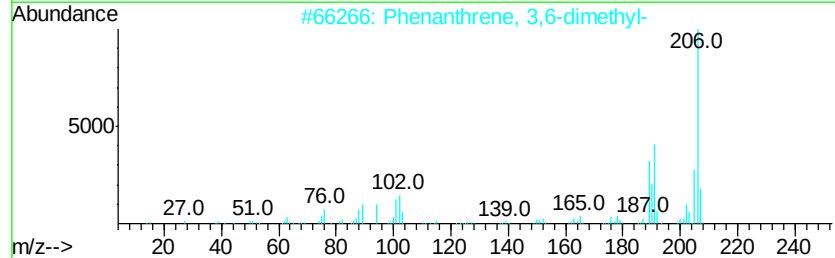
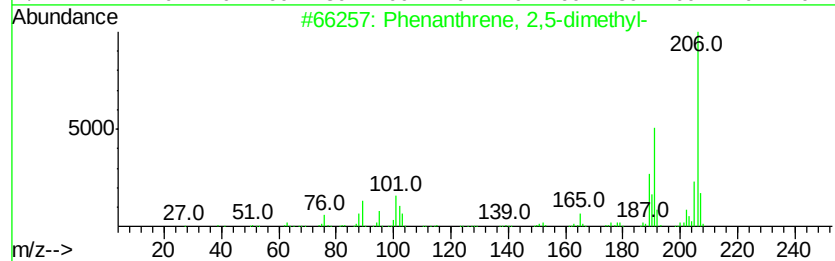
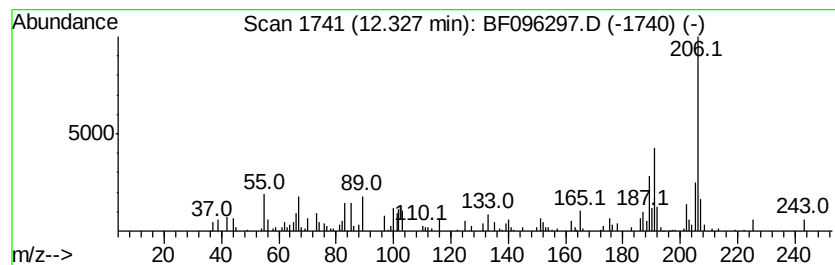
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T.  | EstConc  | Area  | Relative to ISTD | R.T.  |
|-------|----------|-------|------------------|-------|
| 12.33 | 18.63 ng | 66138 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 94   |
| 2    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |
| 3    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 89   |
| 4    |    | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 87   |
| 5    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 83   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

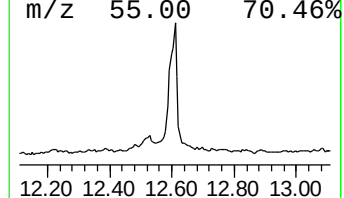
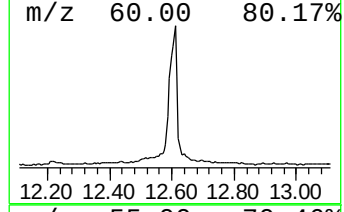
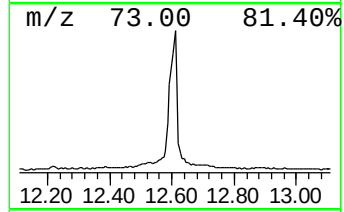
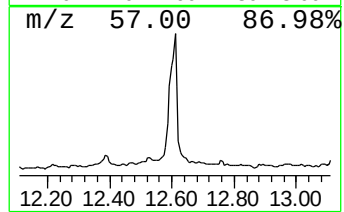
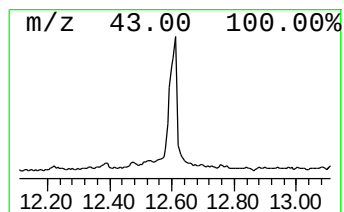
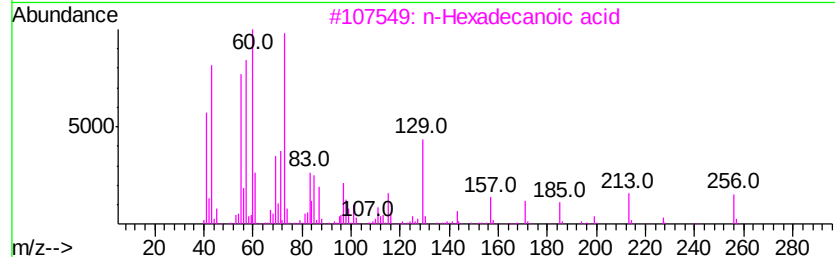
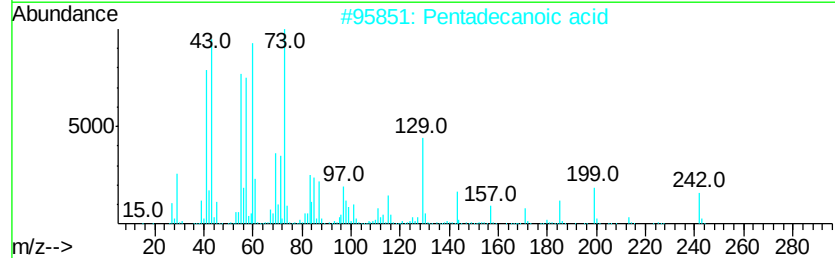
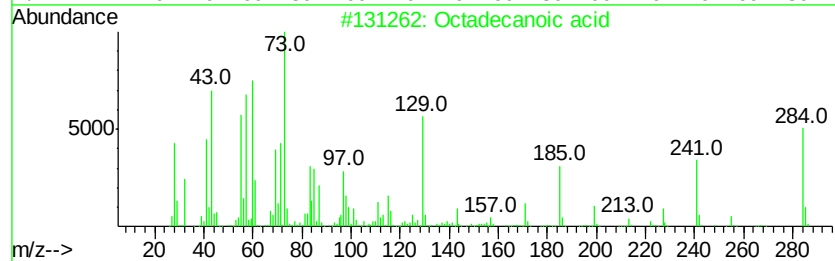
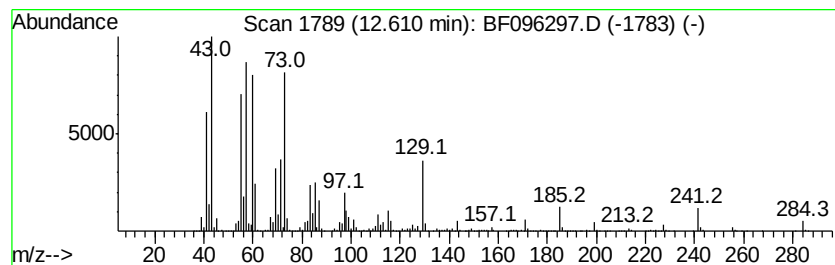
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Octadecanoic acid Concentration Rank 1

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 12.61 | 793.15 ng | 2816260 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid                   | 284 | C18H36O2 | 000057-11-4 | 98   |
| 2    |    | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3    |    | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3 | 90   |
| 4    |    | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 64   |
| 5    |    | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

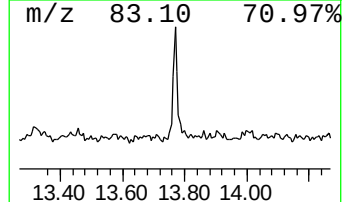
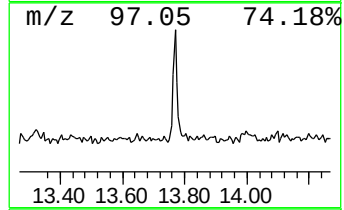
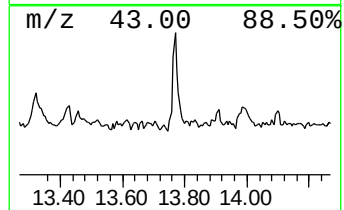
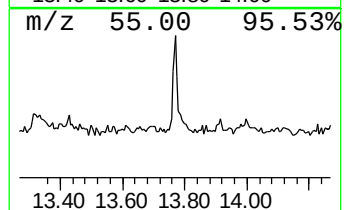
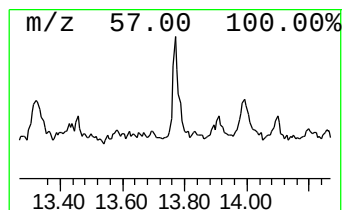
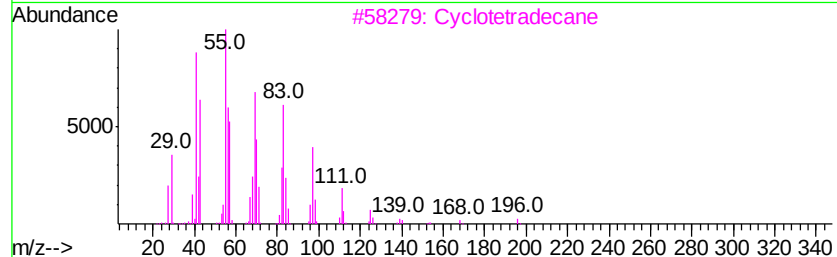
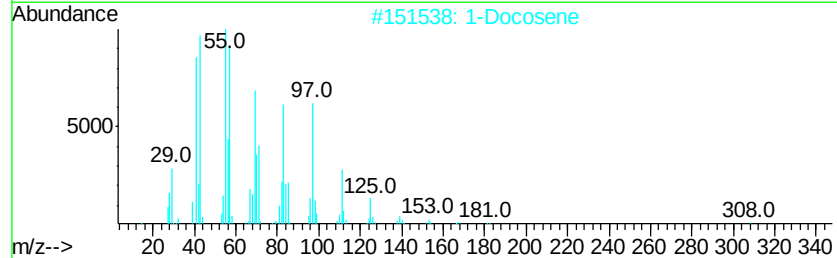
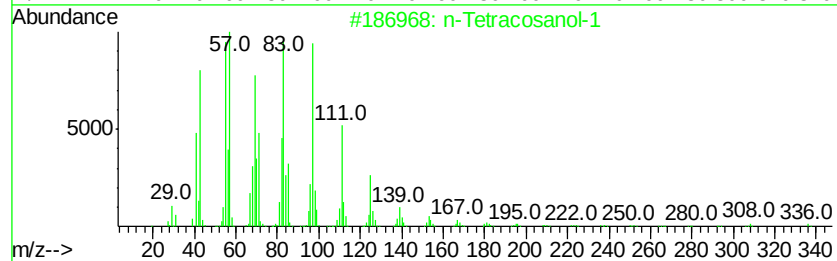
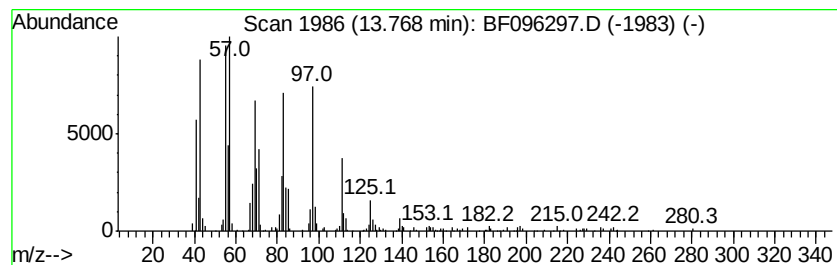
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 n-Tetracosanol-1 Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.77 | 34.31 ng | 305007 | Chrysene-d12     | 14.07 |

| Hit# | of | Tentative ID                | MW  | MolForm    | CAS#         | Qual |
|------|----|-----------------------------|-----|------------|--------------|------|
| 1    | 5  | n-Tetracosanol-1            | 354 | C24H50O    | 000506-51-4  | 91   |
| 2    |    | 1-Docosene                  | 308 | C22H44     | 001599-67-3  | 91   |
| 3    |    | Cyclotetradecane            | 196 | C14H28     | 000295-17-0  | 90   |
| 4    |    | Heptadecyl trifluoroacetate | 352 | C19H35F3O2 | 1000351-87-0 | 90   |
| 5    |    | Octadecyl trifluoroacetate  | 366 | C20H37F3O2 | 079392-43-1  | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096297.D  
Acq On : 29 Jun 2017 17:49  
Operator : SJ/MA  
Sample : I3952-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

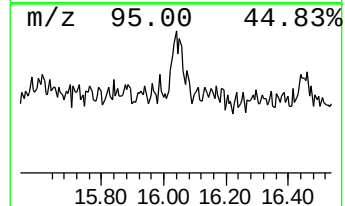
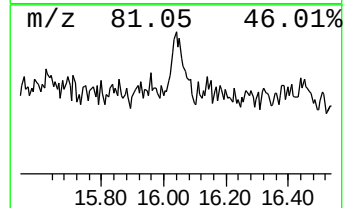
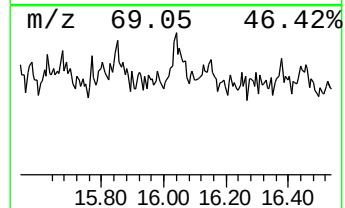
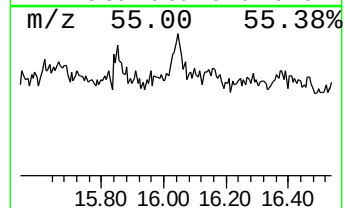
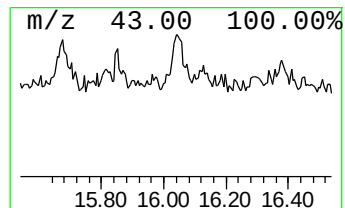
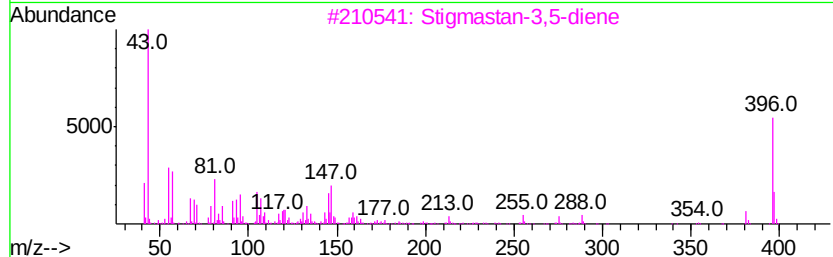
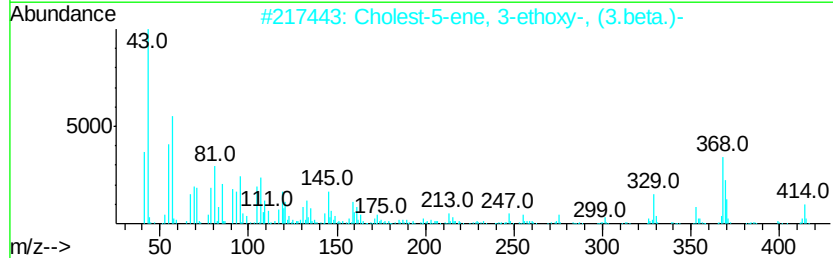
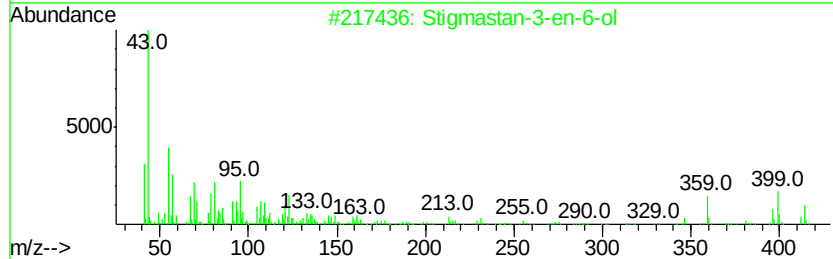
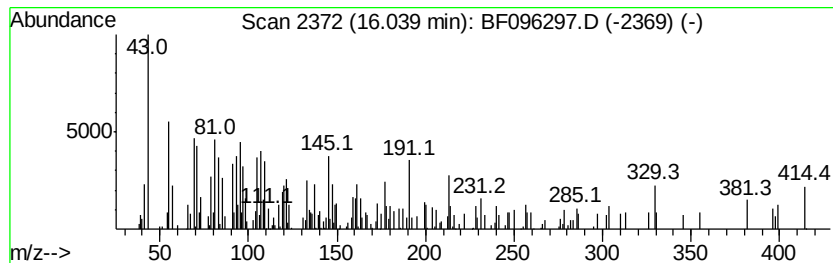
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 unknown16.04 Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.04 | 24.13 ng | 219457 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Stigmastan-3-en-6-ol                | 414 | C29H50O  | 1000214-19-7 | 35   |
| 2    |    | Cholest-5-ene, 3-ethoxy-, (3.beta.) | 414 | C29H50O  | 000986-19-6  | 32   |
| 3    |    | Stigmastan-3,5-diene                | 396 | C29H48   | 1000214-16-4 | 32   |
| 4    |    | Pregnane-3,6,20-trione              | 330 | C21H30O3 | 030802-24-5  | 17   |
| 5    |    | 3-Acetoxy-bisnorallocholanic acid   | 390 | C24H38O4 | 1000252-02-0 | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
 Data File : BF096297.D  
 Acq On : 29 Jun 2017 17:49  
 Operator : SJ/MA  
 Sample : I3952-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 23MC-WC-2(COMP)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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 |
| unknown6.54          | 6.54  | 32.4    | ng    | 2988620  | 1                     | 6.93  | 1845570 | 20.0 |
| unknown8.97          | 8.97  | 26.2    | ng    | 48279    | 2                     | 8.29  | 36835   | 20.0 |
| Hexadecane           | 9.75  | 12.4    | ng    | 101892   | 3                     | 10.09 | 164438  | 20.0 |
| unknown10.01         | 10.01 | 20.8    | ng    | 171186   | 3                     | 10.09 | 164438  | 20.0 |
| Tetradecane          | 10.25 | 13.6    | ng    | 111843   | 3                     | 10.09 | 164438  | 20.0 |
| Tridecane, 7-hexyl-  | 10.72 | 25.8    | ng    | 212101   | 3                     | 10.09 | 164438  | 20.0 |
| 4-((1E)-3-Hydroxy... | 10.93 | 28.2    | ng    | 100003   | 4                     | 11.43 | 71015   | 20.0 |
| Decane, 3,6-dimet... | 11.17 | 21.4    | ng    | 75847    | 4                     | 11.43 | 71015   | 20.0 |
| Anthracene, 9-met... | 11.79 | 26.3    | ng    | 93411    | 4                     | 11.43 | 71015   | 20.0 |
| n-Hexadecanoic acid  | 11.82 | 331.9   | ng    | 1178640  | 4                     | 11.43 | 71015   | 20.0 |
| 4H-Cyclopenta[def... | 11.89 | 39.7    | ng    | 140859   | 4                     | 11.43 | 71015   | 20.0 |
| 3,5-Dimethoxy-4-h... | 11.96 | 25.1    | ng    | 88991    | 4                     | 11.43 | 71015   | 20.0 |
| Tricyclo[8.2.2.2(... | 12.08 | 16.3    | ng    | 57692    | 4                     | 11.43 | 71015   | 20.0 |
| Phenanthrene, 2,5... | 12.33 | 18.6    | ng    | 66138    | 4                     | 11.43 | 71015   | 20.0 |
| Octadecanoic acid    | 12.61 | 793.1   | ng    | 2816260  | 4                     | 11.43 | 71015   | 20.0 |
| n-Tetracosanol-1     | 13.77 | 34.3    | ng    | 305007   | 5                     | 14.07 | 177775  | 20.0 |
| unknown16.04         | 16.04 | 24.1    | ng    | 219457   | 6                     | 15.50 | 181931  | 20.0 |