

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
 Data File : BF100780.D  
 Acq On : 21 Nov 2017 15:11  
 Operator : SJ/JU  
 Sample : I6340-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-2A

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-BF110817.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      | 5.092    | 507        | 511      | 522       | rBV   | 180666      | 228152     | 14.94%       | 1.228%     |
| 2      | 5.487    | 574        | 578      | 582       | rBV   | 1457437     | 1436765    | 94.11%       | 7.734%     |
| 3      | 6.498    | 744        | 750      | 760       | rVB   | 1378785     | 1511984    | 99.04%       | 8.138%     |
| 4      | 6.639    | 769        | 774      | 777       | rBV   | 1730271     | 1526679    | 100.00%      | 8.218%     |
| 5      | 6.869    | 810        | 813      | 817       | rBV   | 550872      | 447578     | 29.32%       | 2.409%     |
| 6      | 7.028    | 836        | 840      | 843       | rVB   | 1241832     | 1048814    | 68.70%       | 5.645%     |
| 7      | 7.433    | 904        | 909      | 912       | rBV   | 991919      | 914414     | 59.90%       | 4.922%     |
| 8      | 8.151    | 1027       | 1031     | 1034      | rBV   | 713065      | 593974     | 38.91%       | 3.197%     |
| 9      | 8.704    | 1119       | 1125     | 1128      | rBV   | 20940       | 18721      | 1.23%        | 0.101%     |
| 10     | 9.227    | 1209       | 1214     | 1217      | rBV   | 1604377     | 1394502    | 91.34%       | 7.506%     |
| 11     | 9.616    | 1277       | 1280     | 1284      | rBV   | 130504      | 110714     | 7.25%        | 0.596%     |
| 12     | 9.910    | 1325       | 1330     | 1333      | rBV   | 717221      | 673001     | 44.08%       | 3.623%     |
| 13     | 10.451   | 1419       | 1422     | 1427      | rBV   | 16982       | 17566      | 1.15%        | 0.095%     |
| 14     | 10.616   | 1447       | 1450     | 1454      | rBV2  | 57598       | 49606      | 3.25%        | 0.267%     |
| 15     | 10.698   | 1459       | 1464     | 1467      | rBV   | 1008560     | 986421     | 64.61%       | 5.310%     |
| 16     | 10.804   | 1478       | 1482     | 1483      | rBV2  | 20089       | 22209      | 1.45%        | 0.120%     |
| 17     | 10.816   | 1483       | 1484     | 1490      | rVB4  | 39405       | 36301      | 2.38%        | 0.195%     |
| 18     | 10.869   | 1490       | 1493     | 1496      | rBV   | 56165       | 51730      | 3.39%        | 0.278%     |
| 19     | 10.904   | 1496       | 1499     | 1502      | rVV2  | 51865       | 60763      | 3.98%        | 0.327%     |
| 20     | 10.933   | 1502       | 1504     | 1507      | rVV2  | 49959       | 50673      | 3.32%        | 0.273%     |
| 21     | 10.963   | 1507       | 1509     | 1511      | rVV2  | 33120       | 25395      | 1.66%        | 0.137%     |
| 22     | 11.004   | 1511       | 1516     | 1517      | rVV3  | 22192       | 30722      | 2.01%        | 0.165%     |
| 23     | 11.051   | 1521       | 1524     | 1527      | rVV3  | 43139       | 48513      | 3.18%        | 0.261%     |
| 24     | 11.086   | 1527       | 1530     | 1532      | rVV   | 65317       | 48432      | 3.17%        | 0.261%     |
| 25     | 11.127   | 1535       | 1537     | 1541      | rVB2  | 34656       | 25373      | 1.66%        | 0.137%     |
| 26     | 11.286   | 1560       | 1564     | 1570      | rVB3  | 17755       | 28328      | 1.86%        | 0.152%     |
| 27     | 11.392   | 1578       | 1582     | 1585      | rBV   | 790371      | 738352     | 48.36%       | 3.974%     |
| 28     | 11.416   | 1585       | 1586     | 1589      | rVV   | 253732      | 159700     | 10.46%       | 0.860%     |
| 29     | 11.468   | 1593       | 1595     | 1598      | rVB   | 41645       | 31949      | 2.09%        | 0.172%     |
| 30     | 11.621   | 1615       | 1621     | 1625      | rBV   | 25116       | 40327      | 2.64%        | 0.217%     |
| 31     | 11.921   | 1664       | 1672     | 1675      | rBV2  | 49989       | 100633     | 6.59%        | 0.542%     |
| 32     | 12.004   | 1683       | 1686     | 1689      | rBV2  | 47909       | 50645      | 3.32%        | 0.273%     |
| 33     | 12.186   | 1715       | 1717     | 1719      | rBV   | 26665       | 25143      | 1.65%        | 0.135%     |
| 34     | 12.216   | 1719       | 1722     | 1724      | rVB2  | 23831       | 23190      | 1.52%        | 0.125%     |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 HL-2A

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-BF110817.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 12.604 | 1785 | 1788 | 1792 | rBV   | 424774  | 360620  | 23.62% | 1.941% |
| 36 | 12.645 | 1792 | 1795 | 1798 | rBV2  | 45756   | 47137   | 3.09%  | 0.254% |
| 37 | 12.692 | 1801 | 1803 | 1806 | rBV3  | 25437   | 28325   | 1.86%  | 0.152% |
| 38 | 12.727 | 1807 | 1809 | 1812 | rVB3  | 33910   | 27572   | 1.81%  | 0.148% |
| 39 | 12.833 | 1822 | 1827 | 1829 | rBV   | 321269  | 335029  | 21.94% | 1.803% |
| 40 | 12.974 | 1847 | 1851 | 1857 | rVB   | 1173718 | 1055666 | 69.15% | 5.682% |
| 41 | 13.163 | 1881 | 1883 | 1887 | rVB   | 53982   | 41350   | 2.71%  | 0.223% |
| 42 | 13.227 | 1892 | 1894 | 1898 | rBV   | 48751   | 38857   | 2.55%  | 0.209% |
| 43 | 13.757 | 1982 | 1984 | 1986 | rBV   | 95015   | 78872   | 5.17%  | 0.425% |
| 44 | 13.786 | 1986 | 1989 | 1992 | rVV2  | 75046   | 87428   | 5.73%  | 0.471% |
| 45 | 13.833 | 1995 | 1997 | 1998 | rVV   | 48852   | 40237   | 2.64%  | 0.217% |
| 46 | 13.862 | 1998 | 2002 | 2009 | rVB5  | 165420  | 245265  | 16.07% | 1.320% |
| 47 | 13.939 | 2012 | 2015 | 2019 | rVB2  | 117290  | 110773  | 7.26%  | 0.596% |
| 48 | 13.974 | 2019 | 2021 | 2023 | rBV2  | 35031   | 27574   | 1.81%  | 0.148% |
| 49 | 14.004 | 2023 | 2026 | 2028 | rBV   | 234724  | 220629  | 14.45% | 1.188% |
| 50 | 14.033 | 2028 | 2031 | 2033 | rVV2  | 547578  | 548733  | 35.94% | 2.954% |
| 51 | 14.057 | 2033 | 2035 | 2038 | rVB   | 136984  | 110871  | 7.26%  | 0.597% |
| 52 | 14.492 | 2106 | 2109 | 2115 | rVB2  | 109600  | 129750  | 8.50%  | 0.698% |
| 53 | 14.562 | 2119 | 2121 | 2124 | rVB   | 80042   | 68944   | 4.52%  | 0.371% |
| 54 | 14.945 | 2183 | 2186 | 2189 | rVB   | 50818   | 56340   | 3.69%  | 0.303% |
| 55 | 15.074 | 2204 | 2208 | 2211 | rBV   | 109027  | 168529  | 11.04% | 0.907% |
| 56 | 15.133 | 2215 | 2218 | 2221 | rBV   | 197414  | 230596  | 15.10% | 1.241% |
| 57 | 15.380 | 2257 | 2260 | 2266 | rVB   | 72474   | 89524   | 5.86%  | 0.482% |
| 58 | 15.439 | 2267 | 2270 | 2276 | rVV   | 89249   | 120698  | 7.91%  | 0.650% |
| 59 | 15.504 | 2277 | 2281 | 2293 | rVB   | 356785  | 522759  | 34.24% | 2.814% |
| 60 | 15.721 | 2314 | 2318 | 2323 | rBV2  | 88089   | 116332  | 7.62%  | 0.626% |
| 61 | 15.956 | 2353 | 2358 | 2363 | rBV   | 114650  | 163557  | 10.71% | 0.880% |
| 62 | 16.009 | 2364 | 2367 | 2373 | rVB5  | 48076   | 84598   | 5.54%  | 0.455% |
| 63 | 16.762 | 2490 | 2495 | 2502 | rBV3  | 72025   | 139729  | 9.15%  | 0.752% |
| 64 | 16.980 | 2528 | 2532 | 2541 | rVB4  | 44721   | 95276   | 6.24%  | 0.513% |
| 65 | 17.427 | 2603 | 2608 | 2617 | rVB2  | 37310   | 84546   | 5.54%  | 0.455% |
| 66 | 17.568 | 2627 | 2632 | 2643 | rVB2  | 33657   | 94141   | 6.17%  | 0.507% |
| 67 | 17.792 | 2667 | 2670 | 2678 | rVB4  | 43077   | 81771   | 5.36%  | 0.440% |
| 68 | 18.039 | 2706 | 2712 | 2720 | rBV3  | 46720   | 120577  | 7.90%  | 0.649% |
| 69 | 18.145 | 2725 | 2730 | 2735 | rVV7  | 19967   | 45774   | 3.00%  | 0.246% |
| 70 | 18.380 | 2766 | 2770 | 2777 | rBV10 | 27765   | 64840   | 4.25%  | 0.349% |
| 71 | 18.544 | 2791 | 2798 | 2805 | rBV7  | 52059   | 137686  | 9.02%  | 0.741% |

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Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

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-BF110817.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

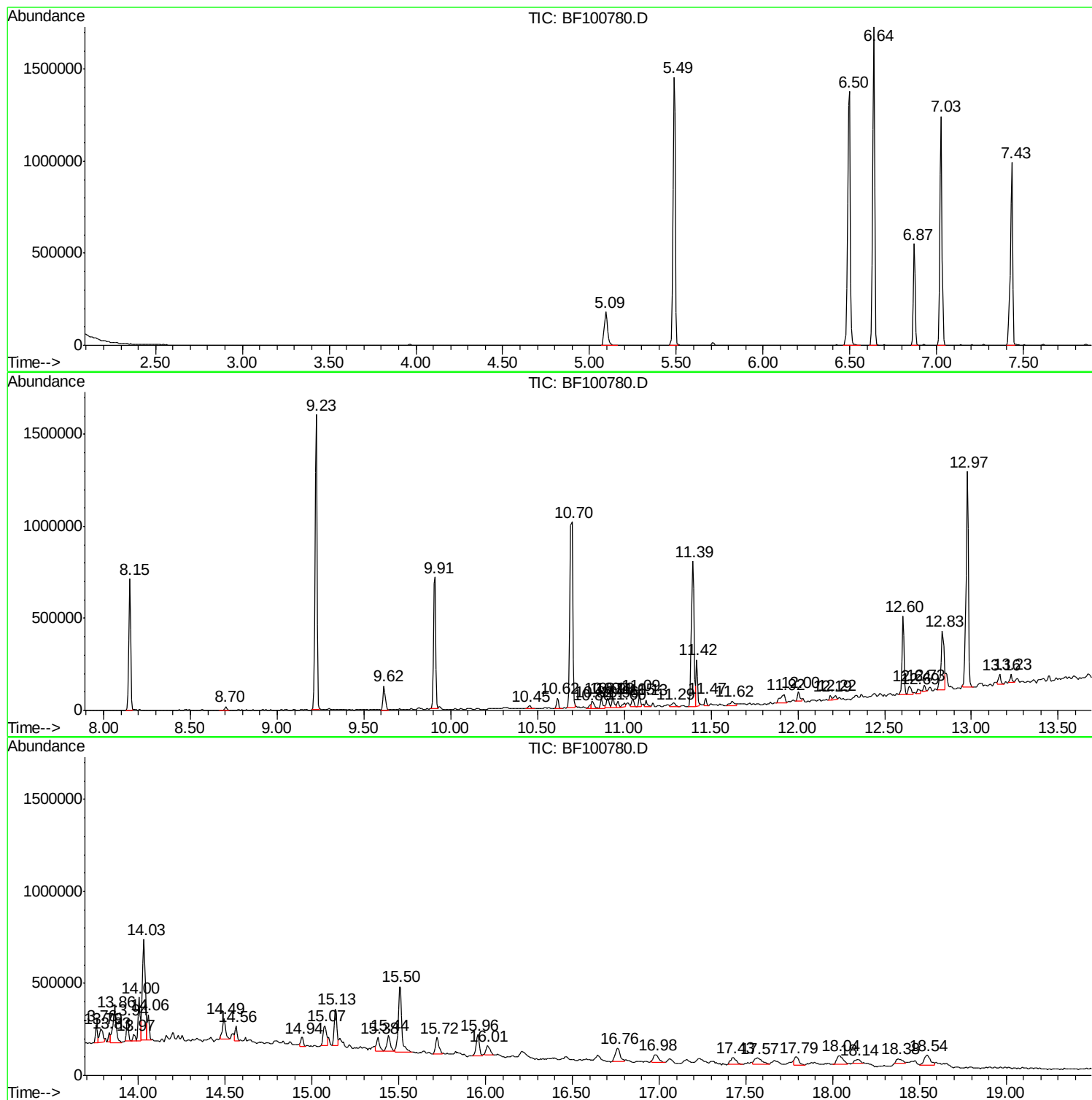
Sum of corrected areas: 18578174

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Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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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Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

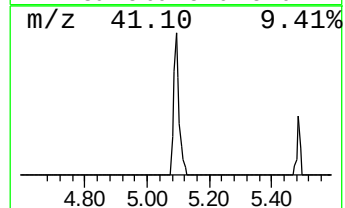
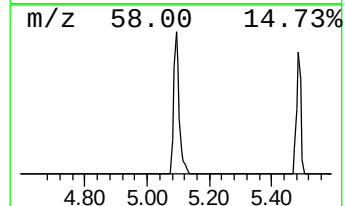
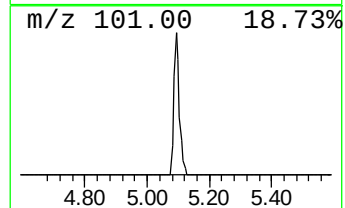
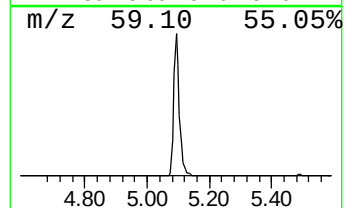
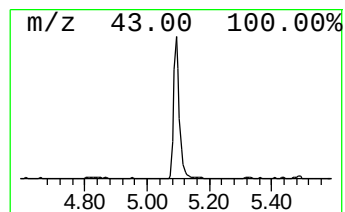
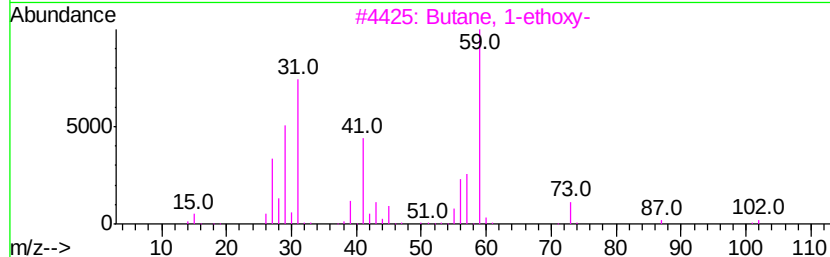
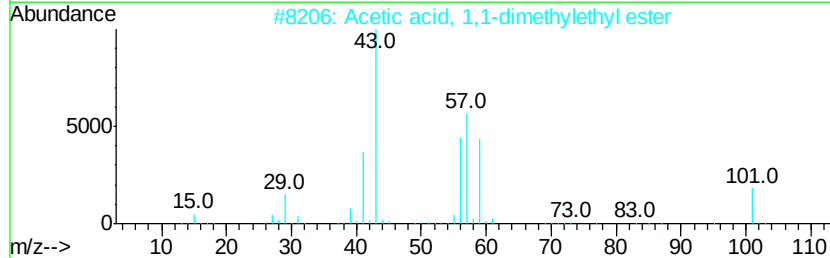
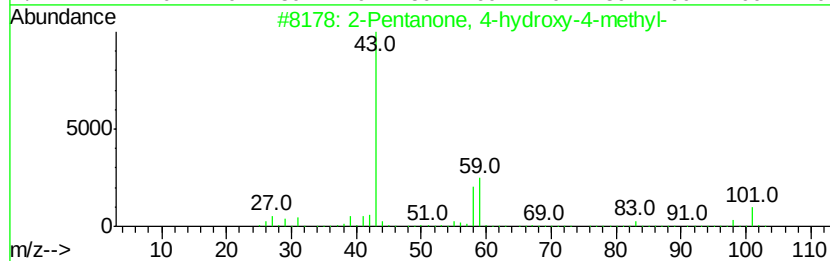
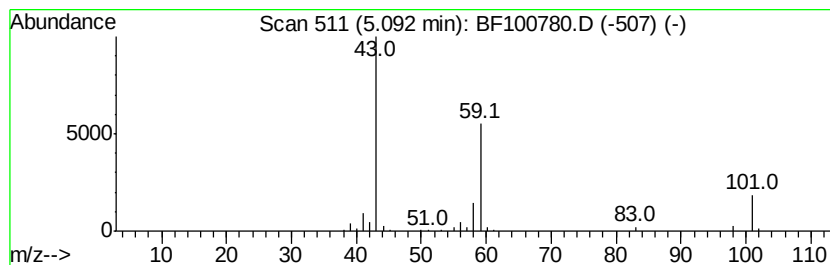
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.09 | 10.20 ng | 228152 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 45   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39   |
| 3    |    |   | Butane, 1-ethoxy-                   | 102 | C6H14O  | 000628-81-9 | 9    |
| 4    |    |   | Morpholine, 4-methyl-               | 101 | C5H11NO | 000109-02-4 | 9    |
| 5    |    |   | 2,3-Butanedione, monooxime          | 101 | C4H7NO2 | 000057-71-6 | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

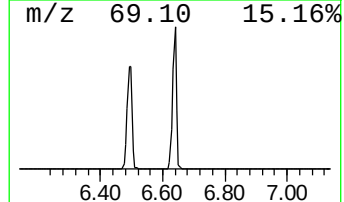
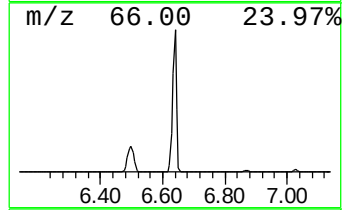
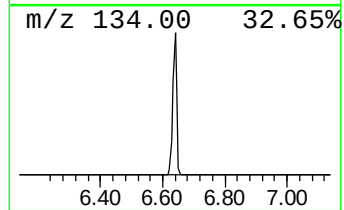
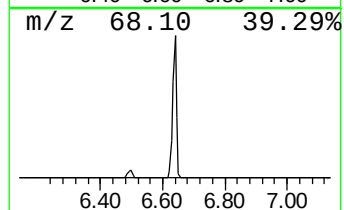
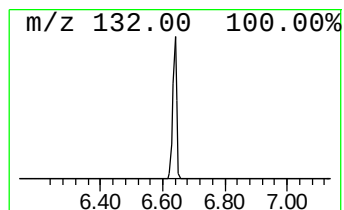
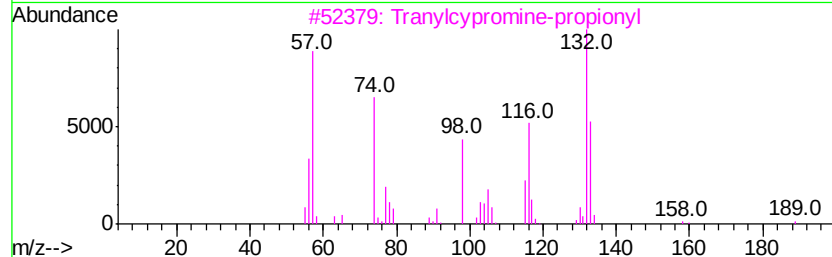
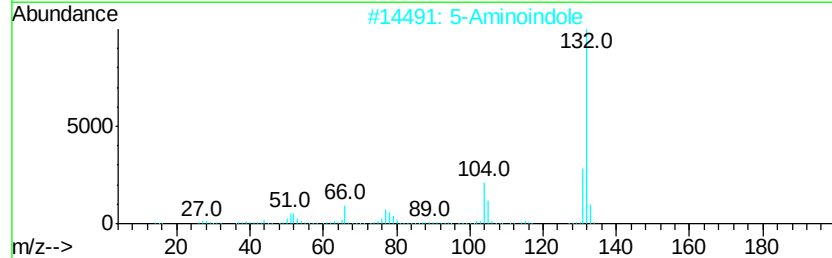
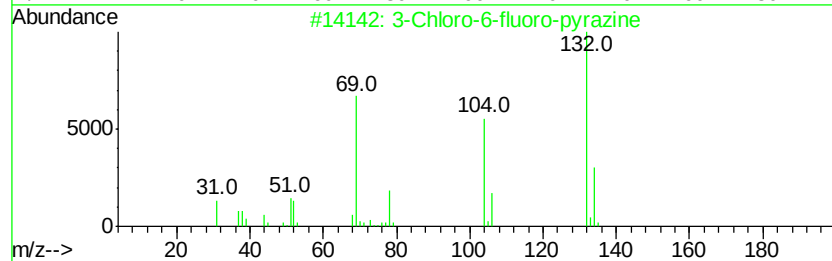
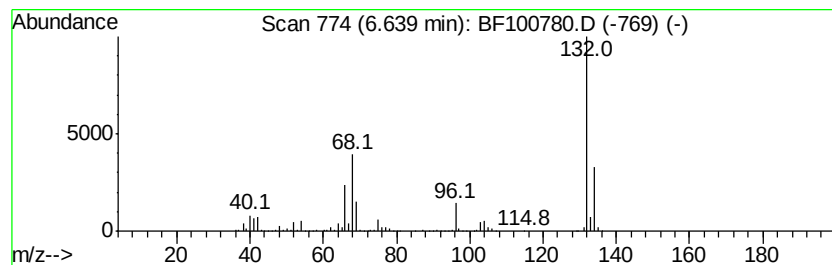
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.64 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.64 | 68.22 ng | 1526680 | 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-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | Tranvlcyproline-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 10   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

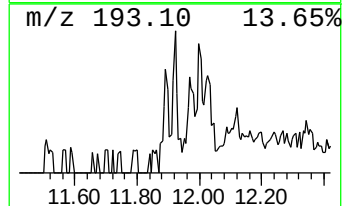
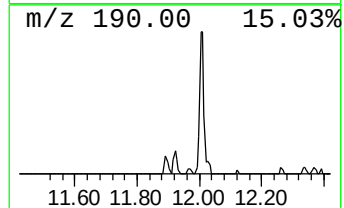
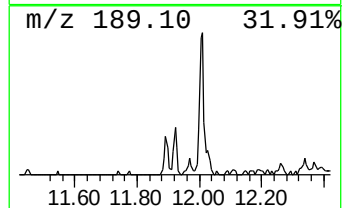
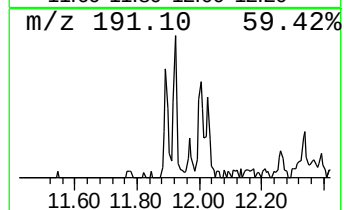
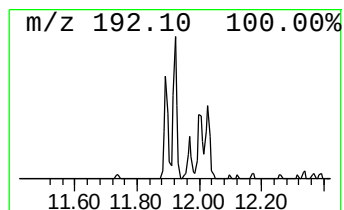
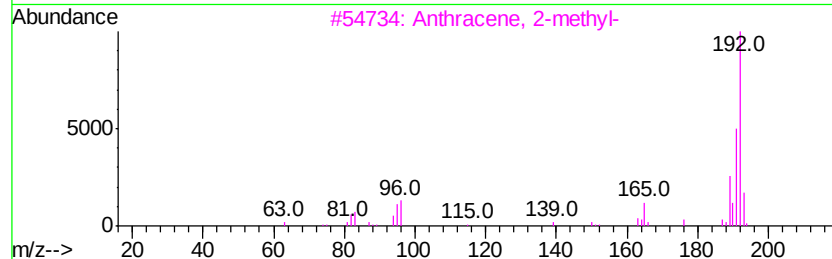
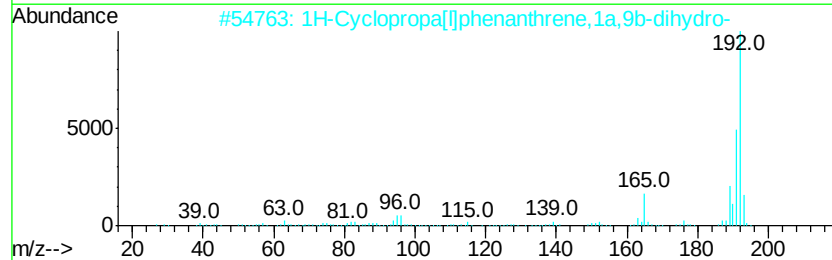
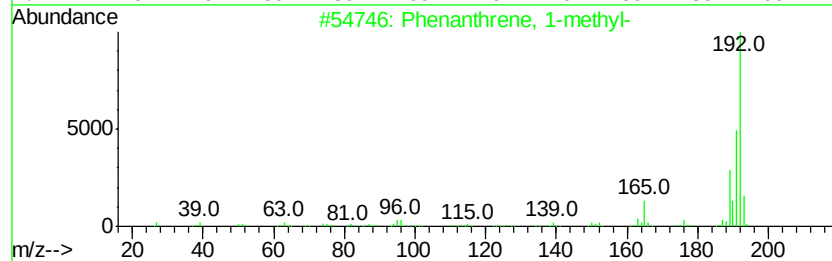
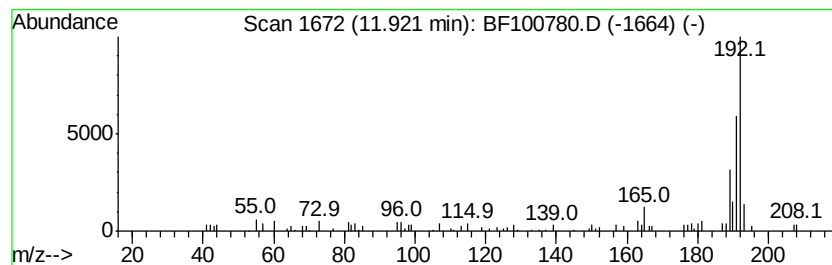
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.92 | 2.73 ng | 100633 | Phenanthrene-d10 | 11.39 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |
| 3    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 93   |
| 4    |    |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 91   |
| 5    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

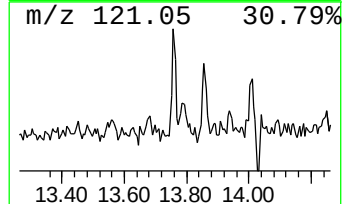
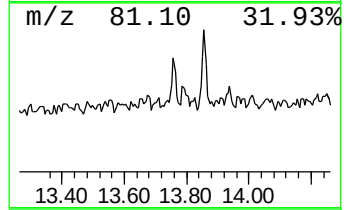
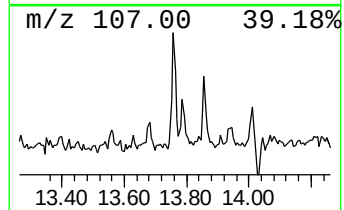
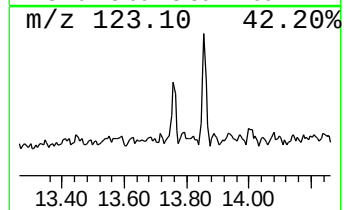
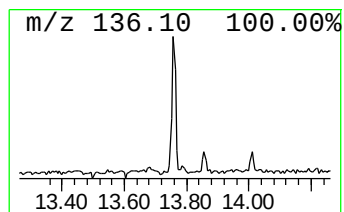
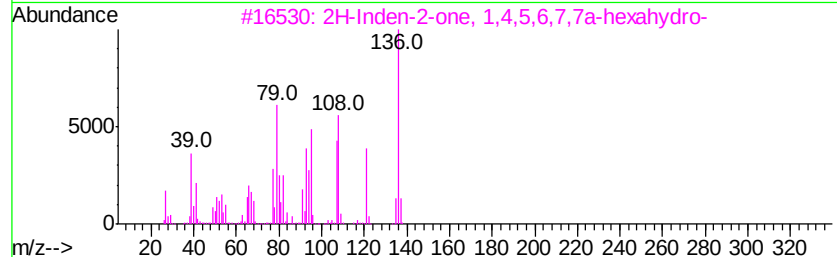
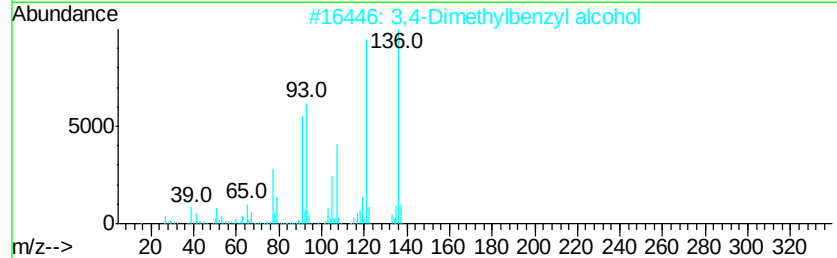
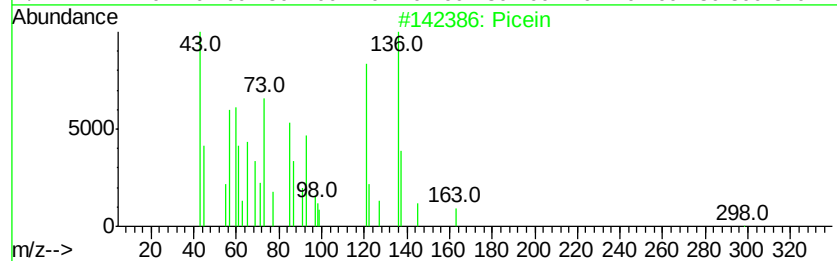
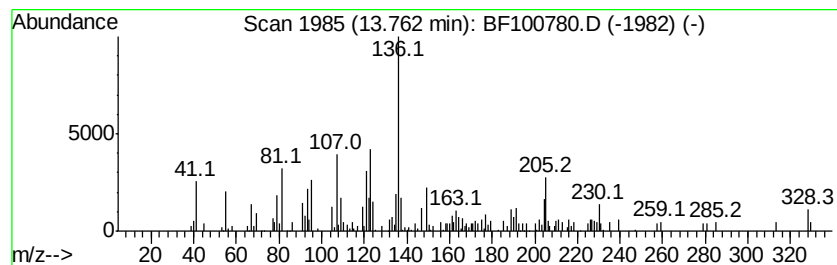
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Picein Concentration Rank 18

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 13.76     | 2.87 ng                             | 78872 | Chrysene-d12     | 14.03        |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Picein                              | 298   | C14H18O7         | 000530-14-3  | 68   |
| 2         | 3,4-Dimethylbenzyl alcohol          | 136   | C9H12O           | 006966-10-5  | 35   |
| 3         | 2H-Inden-2-one, 1,4,5,6,7,7a-hex... | 136   | C9H12O           | 039163-29-6  | 35   |
| 4         | p-Methoxy-.alpha.-phenethylamine    | 151   | C9H13NO          | 1000334-51-0 | 30   |
| 5         | Tetracyclo[6.3.2.0(2,5).0(1,8)]t... | 220   | C15H24O          | 1000157-75-1 | 30   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

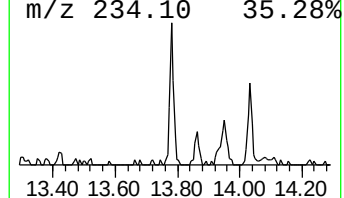
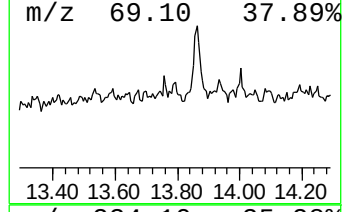
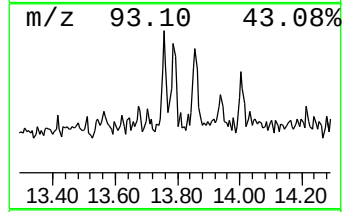
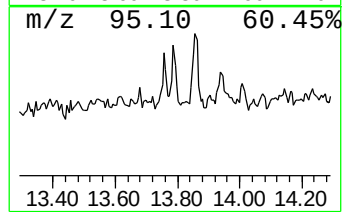
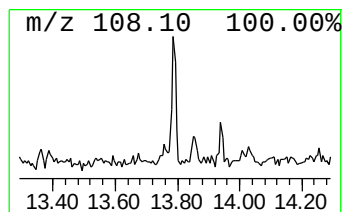
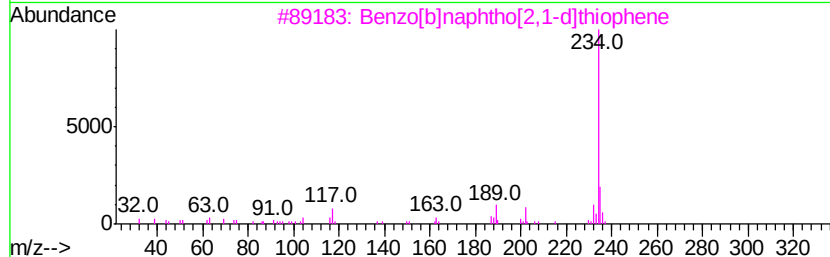
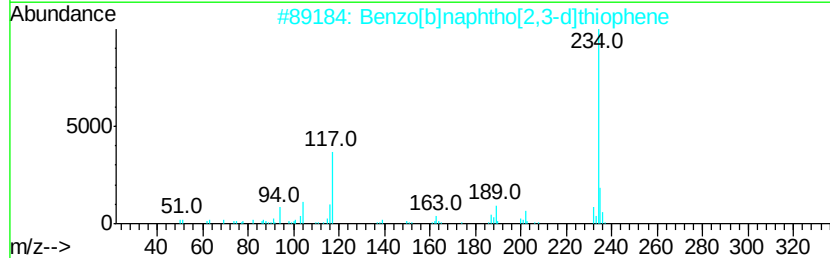
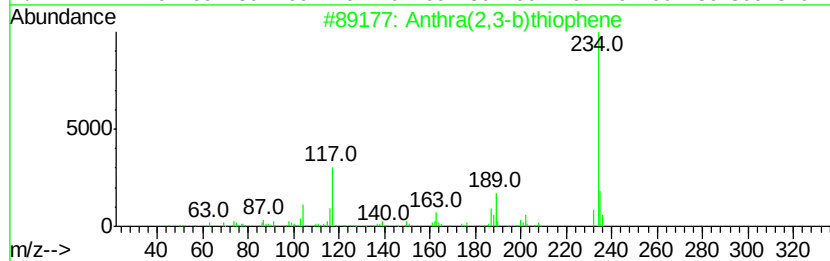
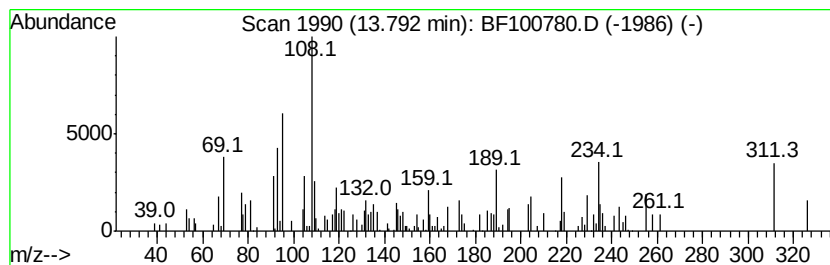
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown13.79 Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.79 | 3.19 ng | 87428 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthra(2,3-b)thiophene          | 234 | C16H10S | 022108-55-0 | 41   |
| 2    |    | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 38   |
| 3    |    | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 38   |
| 4    |    | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 38   |
| 5    |    | Anthra(1,2-b)thiophene          | 234 | C16H10S | 000227-86-1 | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

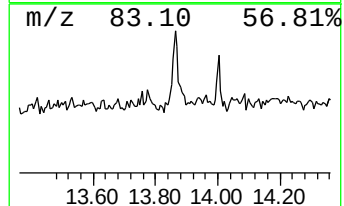
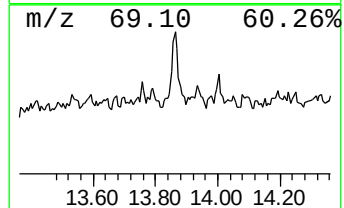
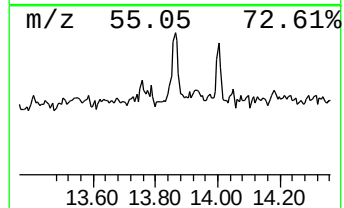
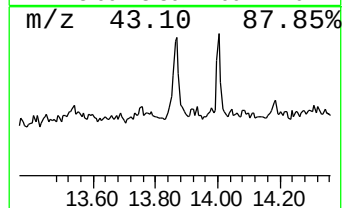
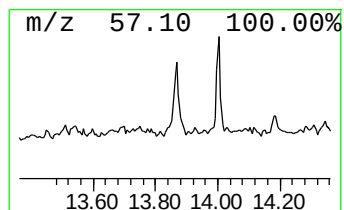
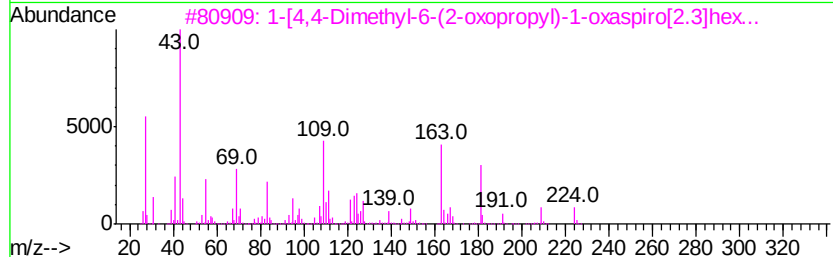
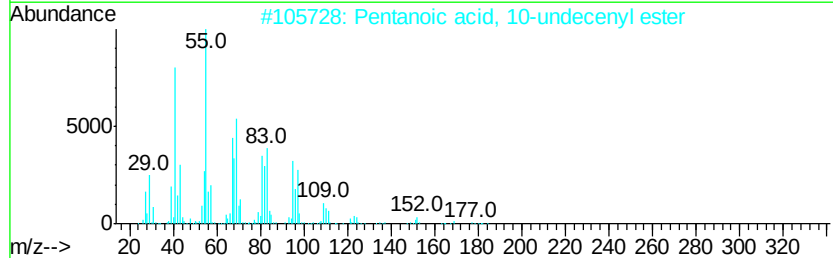
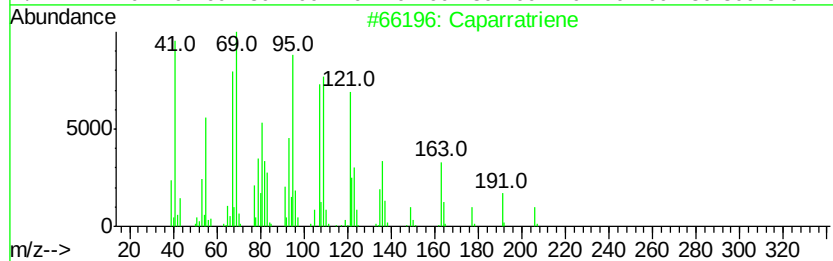
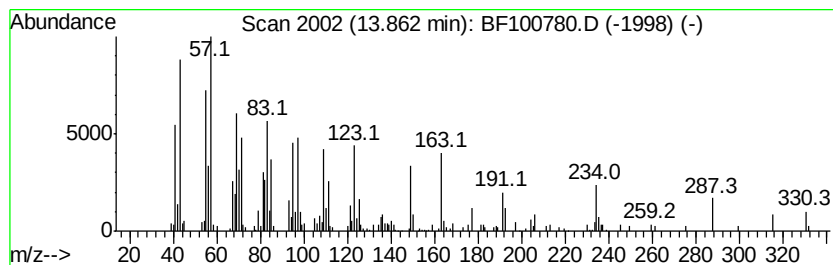
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ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 unknown13.86 Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.86     | 8.94 ng                             | 245265 | Chrysene-d12     | 14.03        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Caparratriene                       | 206    | C15H26           | 1000374-08-7 | 25   |
| 2         | Pentanoic acid, 10-undecenyl ester  | 254    | C16H30O2         | 1000159-93-4 | 12   |
| 3         | 1-[4,4-Dimethyl-6-(2-oxopropyl)-... | 224    | C13H20O3         | 1000186-89-3 | 12   |
| 4         | 1-methyl-4-(prop-1-en-2-yl)-7-ox... | 166    | C10H14O2         | 1000365-66-7 | 12   |
| 5         | 8-Hydroxyisotrichodermin            | 308    | C17H24O5         | 1000105-55-0 | 12   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

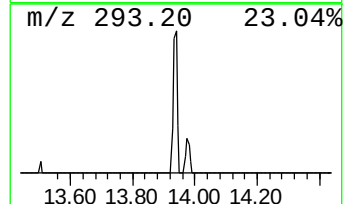
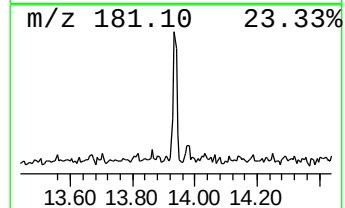
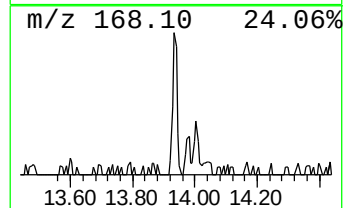
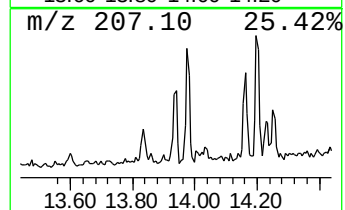
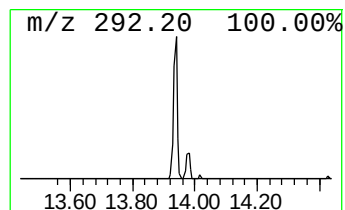
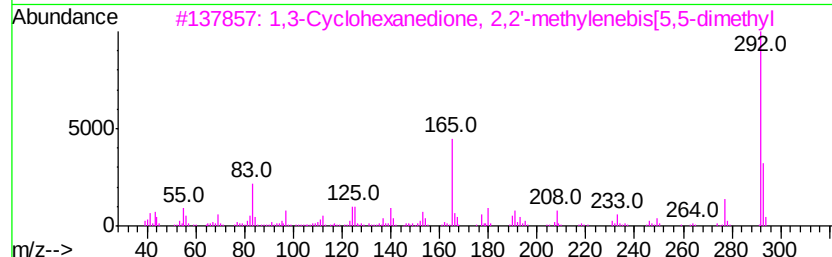
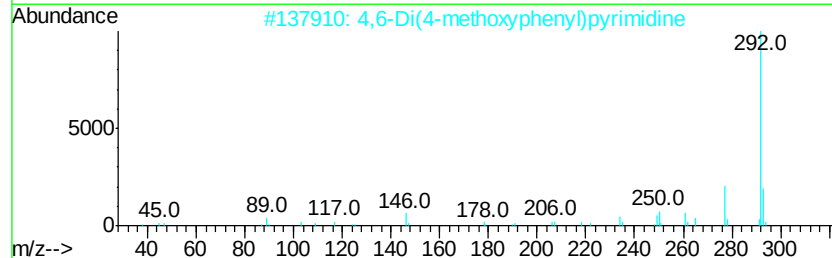
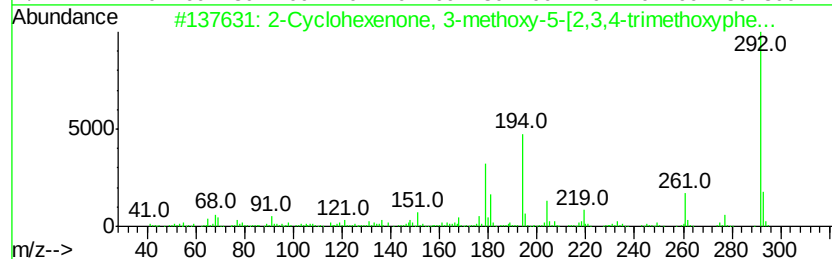
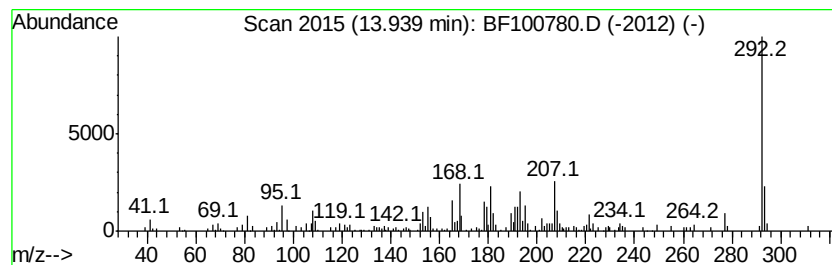
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown13.94 Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.94 | 4.04 ng | 110773 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2-Cyclohexenone, 3-methoxy-5-[2,... | 292 | C16H20O5   | 119101-25-6  | 49   |
| 2    |    | 4,6-Di(4-methoxyphenyl)pyrimidine   | 292 | C18H16N2O2 | 183670-49-7  | 43   |
| 3    |    | 1,3-Cyclohexanedione, 2,2'-methv... | 292 | C17H24O4   | 002181-22-8  | 43   |
| 4    |    | 1,1'-Biphenyl, 4,4-bis(1-pyrroli... | 292 | C20H24N2   | 1000193-54-6 | 43   |
| 5    |    | 2H-1-Benzopyran-2-one, 4-hydroxy... | 292 | C19H16O3   | 005836-29-3  | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
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Operator : SJ/JU  
Sample : I6340-09  
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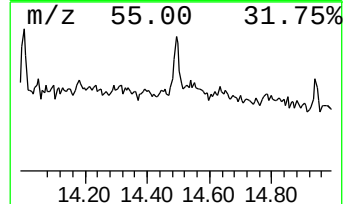
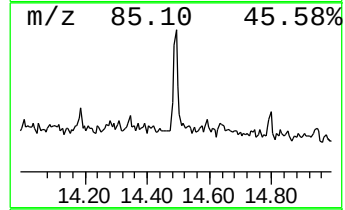
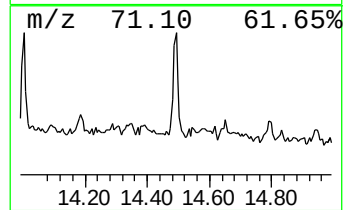
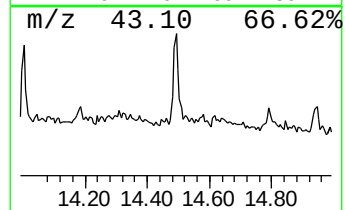
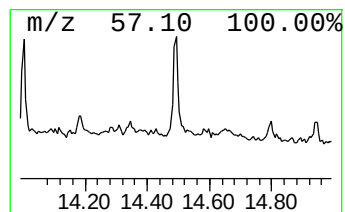
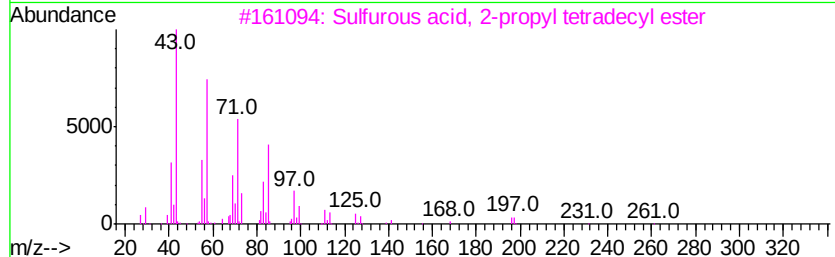
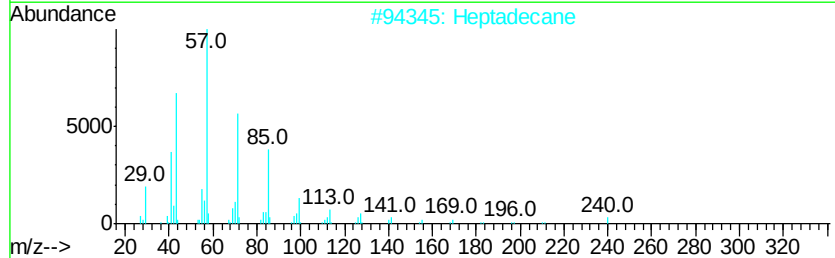
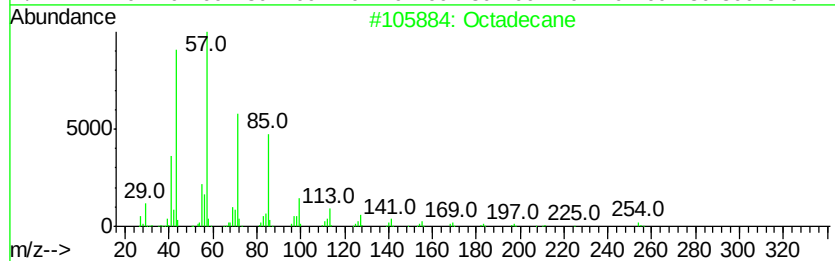
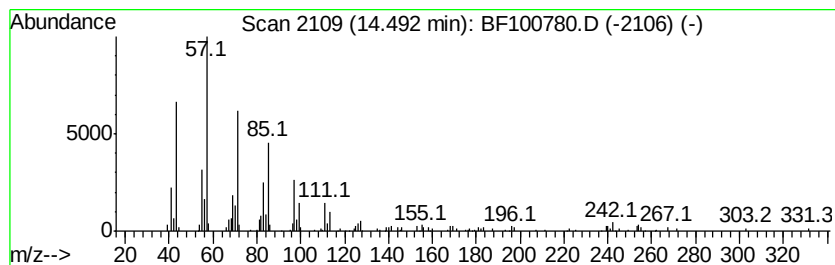
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Octadecane Concentration Rank 9

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 14.49   | 4.73 ng                             | 129750        | Chrysene-d12     | 14.03     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Octadecane                          | 254 C18H38    | 000593-45-3      | 98        |
| 2       | Heptadecane                         | 240 C17H36    | 000629-78-7      | 96        |
| 3       | Sulfurous acid, 2-propyl tetradecyl | 320 C17H36O3S | 1000309-12-5     | 91        |
| 4       | Sulfurous acid, pentadecyl 2-pro    | 334 C18H38O3S | 1000309-12-6     | 91        |
| 5       | Sulfurous acid, butyl hexadecyl     | 362 C20H42O3S | 1000309-18-3     | 87        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

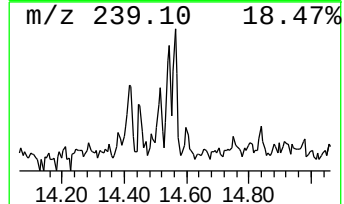
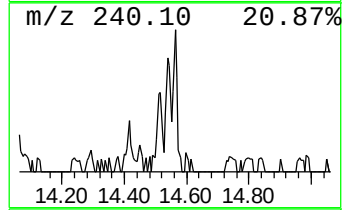
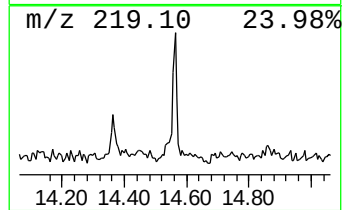
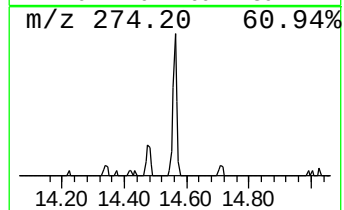
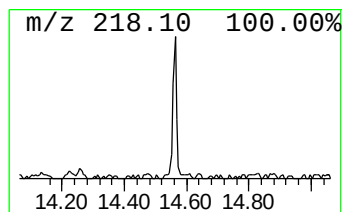
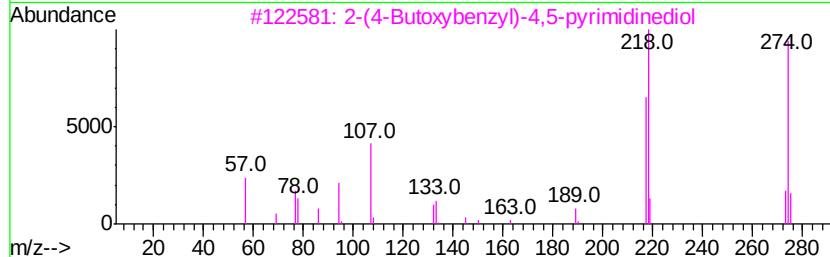
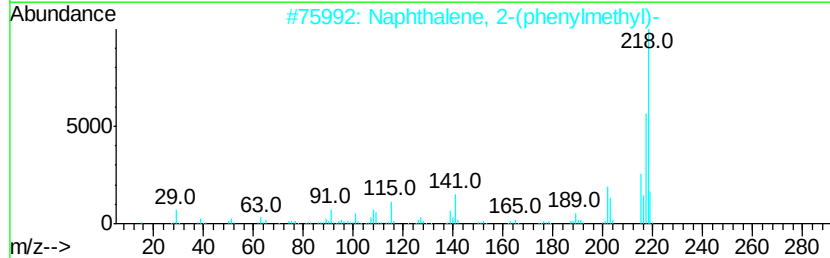
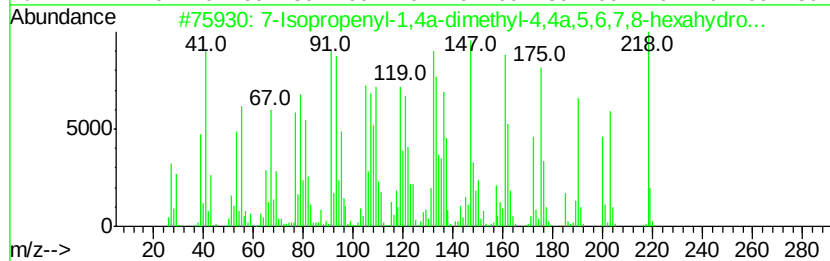
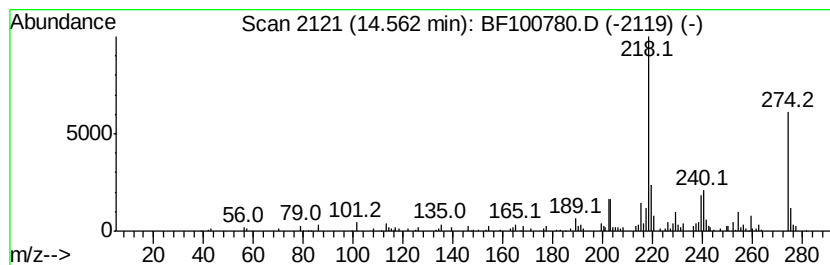
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown14.56 Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.56 | 2.51 ng | 68944 | Chrysene-d12     | 14.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 7-Isopropenyl-1,4a-dimethyl-4,4a... | 218 | C15H22O    | 000473-08-5  | 42   |
| 2    |    |   | Naphthalene, 2-(phenylmethyl)-      | 218 | C17H14     | 000613-59-2  | 35   |
| 3    |    |   | 2-(4-Butoxybenzyl)-4,5-pyrimidin... | 274 | C15H18N2O3 | 1000327-11-0 | 35   |
| 4    |    |   | Pyrimidine, tetrachloro-            | 216 | C4Cl4N2    | 001780-40-1  | 30   |
| 5    |    |   | Acetic acid, trifluoro-, 3,4-dim... | 218 | C10H9F3O2  | 001957-55-7  | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

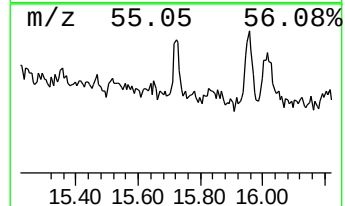
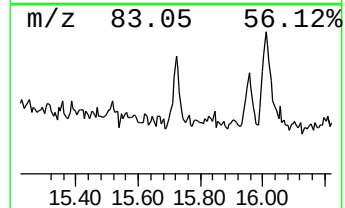
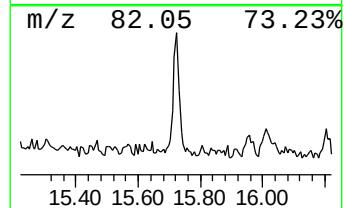
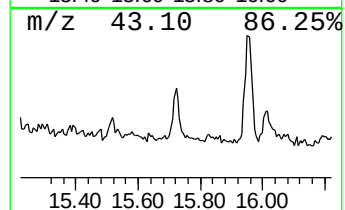
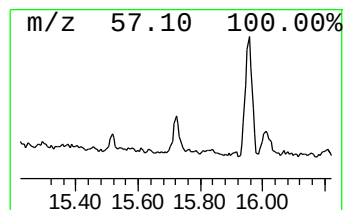
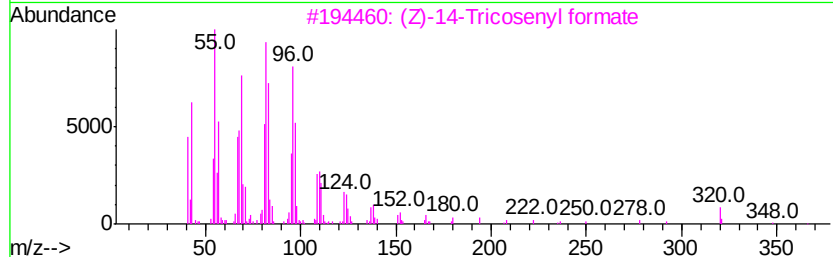
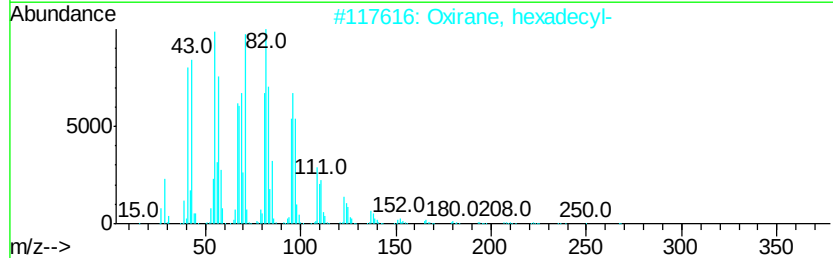
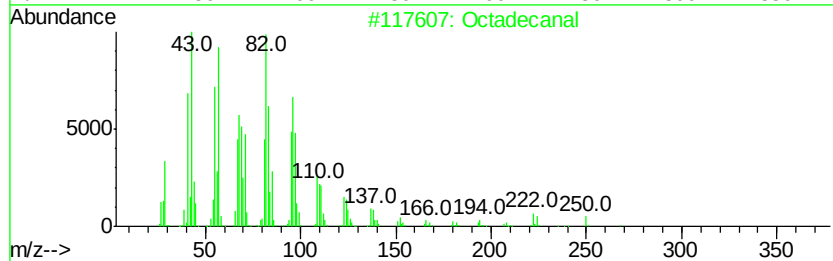
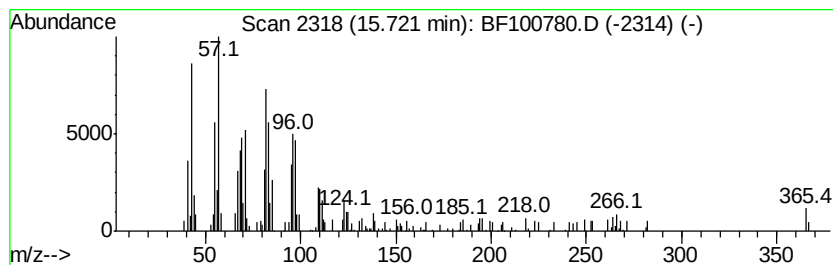
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Octadecanal Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.72 | 4.45 ng | 116332 | Perylene-d12     | 15.50 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#         | Qual |
|------|----|---|---------------------------|-----|----------|--------------|------|
| 1    |    |   | Octadecanal               | 268 | C18H36O  | 000638-66-4  | 90   |
| 2    |    |   | Oxirane, hexadecyl-       | 268 | C18H36O  | 007390-81-0  | 87   |
| 3    |    |   | (Z)-14-Tricosenyl formate | 366 | C24H46O2 | 077899-10-6  | 81   |
| 4    |    |   | 2-Heptadecenal            | 252 | C17H32O  | 1000143-48-6 | 70   |
| 5    |    |   | Hexadecanal               | 240 | C16H32O  | 000629-80-1  | 68   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

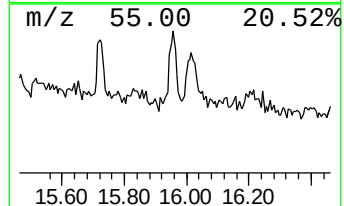
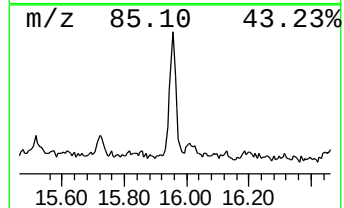
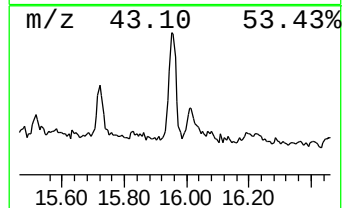
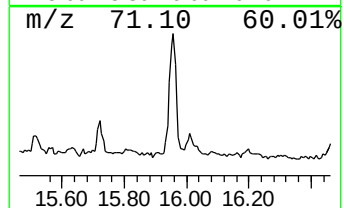
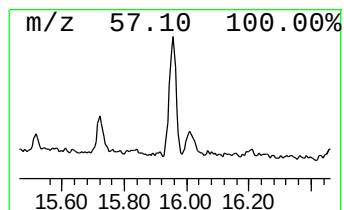
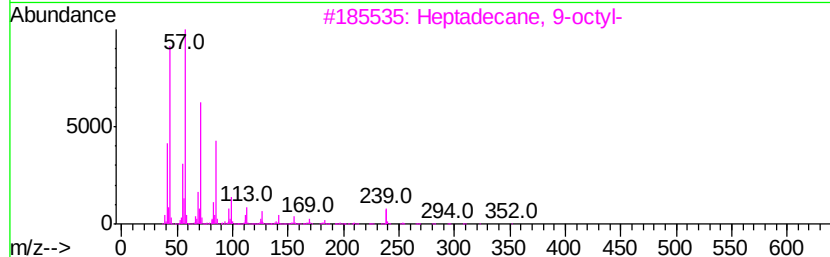
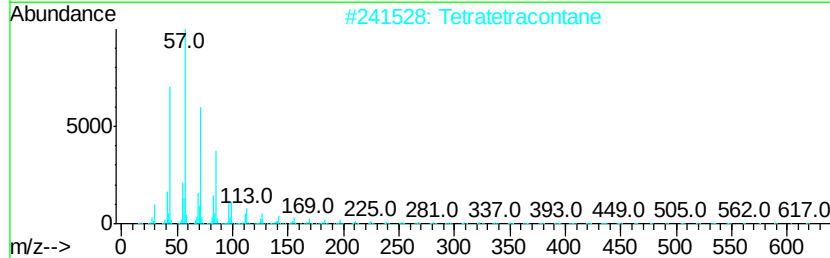
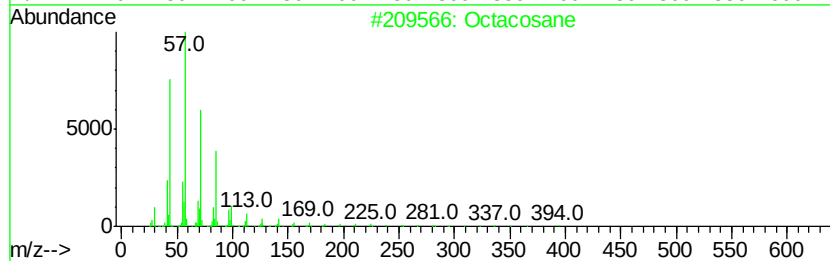
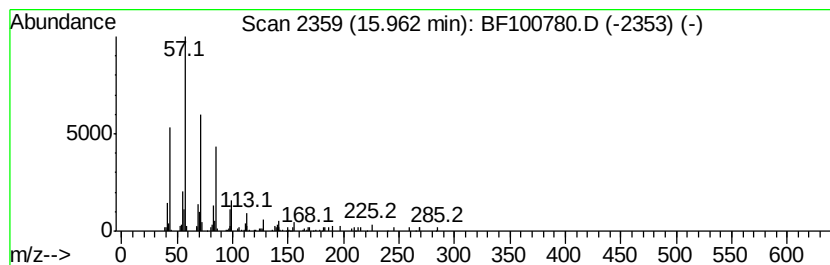
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Octacosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.96 | 6.26 ng | 163557 | Perylene-d12     | 15.50 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Octacosane            |              | 394 | C28H58  | 000630-02-4 | 87   |
| 2       | Tetratetracontane     |              | 619 | C44H90  | 007098-22-8 | 87   |
| 3       | Heptadecane, 9-octyl- |              | 352 | C25H52  | 007225-64-1 | 87   |
| 4       | Triacontane           |              | 422 | C30H62  | 000638-68-6 | 87   |
| 5       | Nonadecane, 2-methyl- |              | 282 | C20H42  | 001560-86-7 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

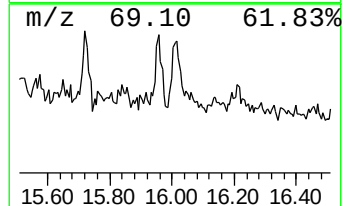
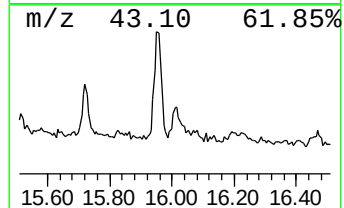
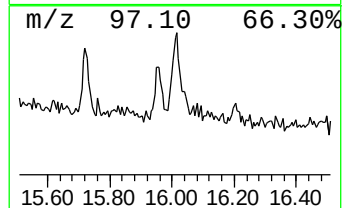
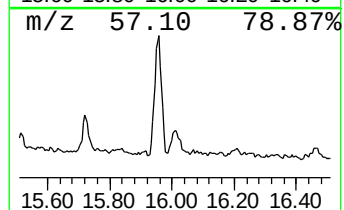
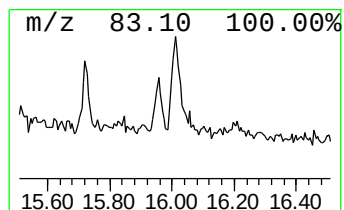
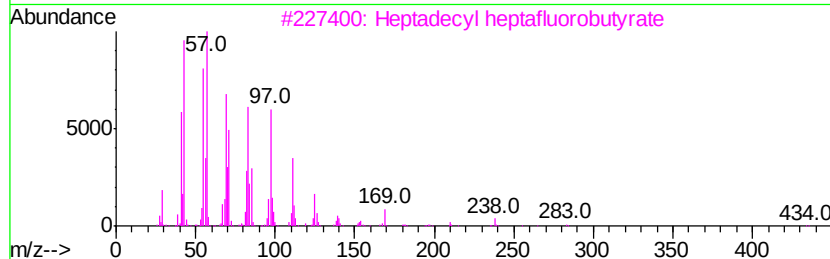
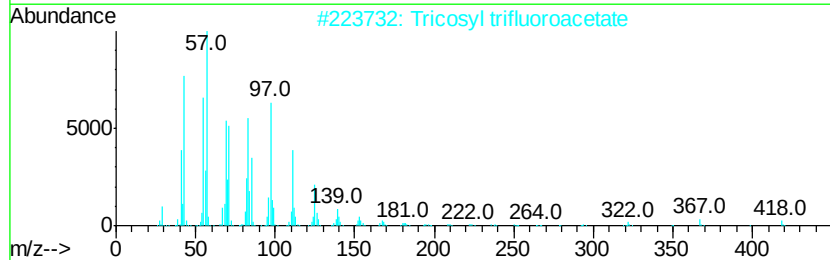
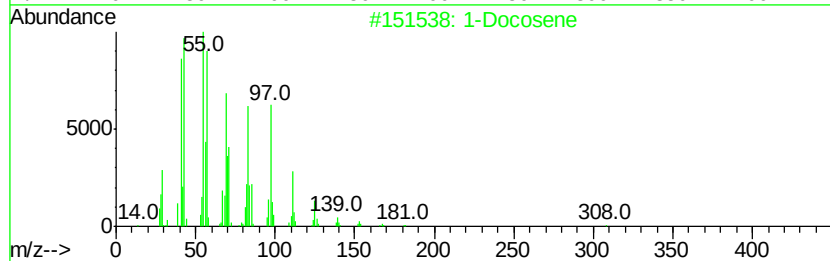
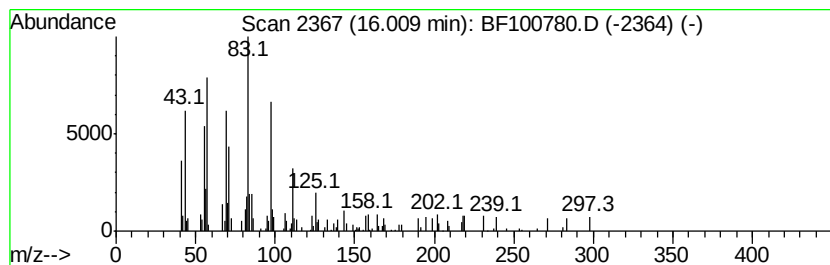
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 1-Docosene Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.01 | 3.24 ng | 84598 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 52   |
| 2    |    | Tricosyl trifluoroacetate           | 436 | C25H47F3O2 | 1000351-75-1 | 43   |
| 3    |    | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6  | 43   |
| 4    |    | Octadecyl trifluoroacetate          | 366 | C20H37F3O2 | 079392-43-1  | 43   |
| 5    |    | Cyclohexane, 1,2,4,5-tetraethyl-... | 196 | C14H28     | 061142-24-3  | 38   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

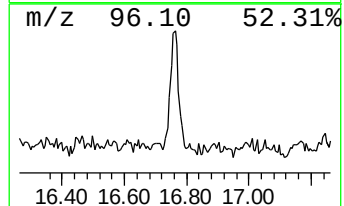
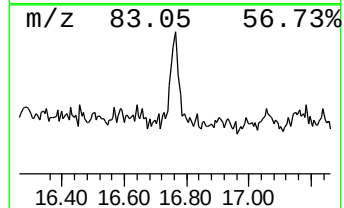
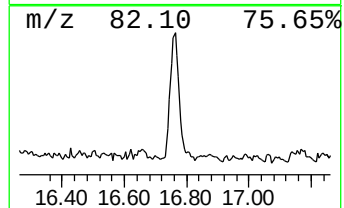
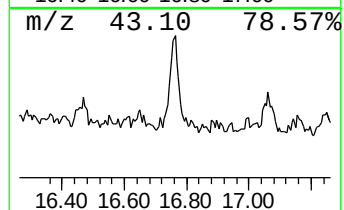
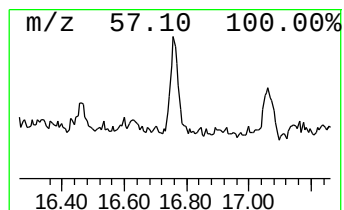
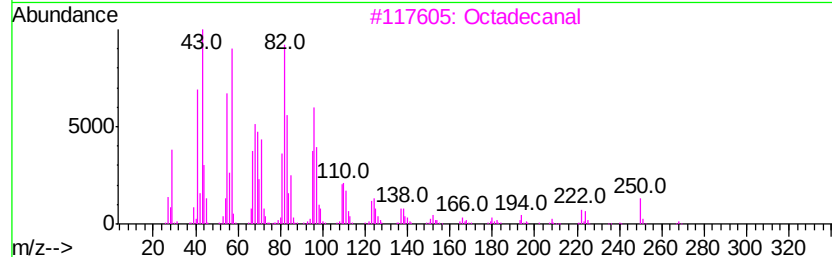
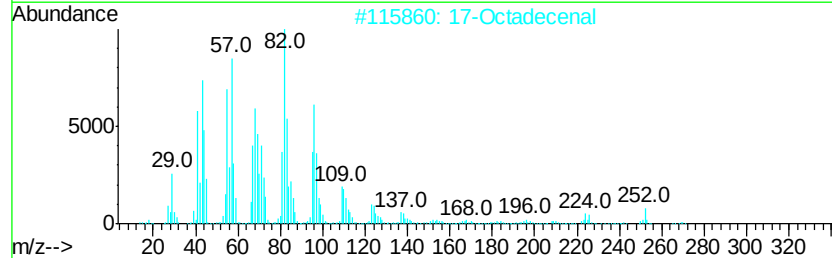
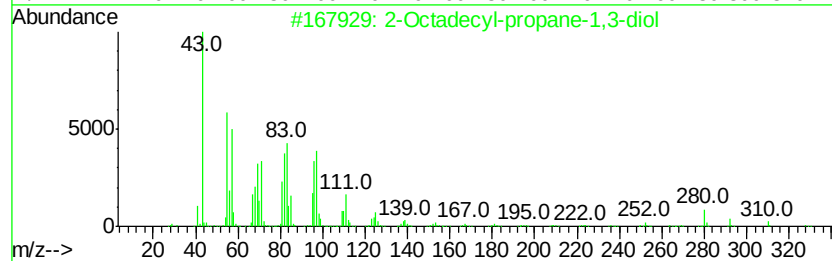
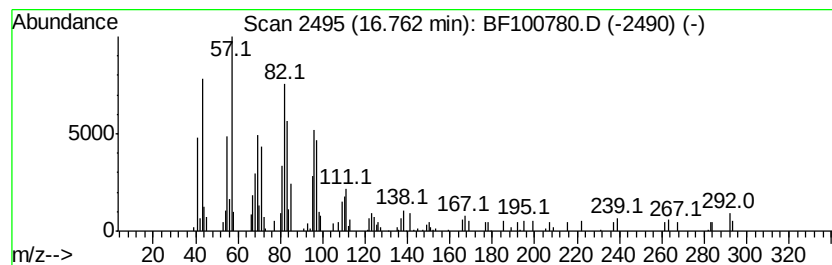
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 2-Octadecyl-propane-1,3-diol Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.76 | 5.35 ng | 139729 | Perylene-d12     | 15.50 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm    | CAS#         | Qual |
|------|----|---|------------------------------|-----|------------|--------------|------|
| 1    |    |   | 2-Octadecyl-propane-1,3-diol | 328 | C21H44O2   | 005337-61-1  | 80   |
| 2    |    |   | 17-Octadecenal               | 266 | C18H34O    | 056554-86-0  | 80   |
| 3    |    |   | Octadecanal                  | 268 | C18H36O    | 000638-66-4  | 50   |
| 4    |    |   | Octacosyl trifluoroacetate   | 506 | C30H57F3O2 | 1000351-74-9 | 43   |
| 5    |    |   | Dodecane, 6-cyclohexyl-      | 252 | C18H36     | 013151-86-5  | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

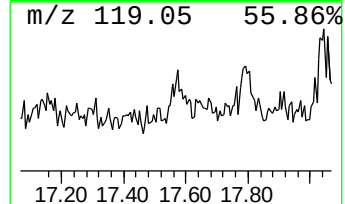
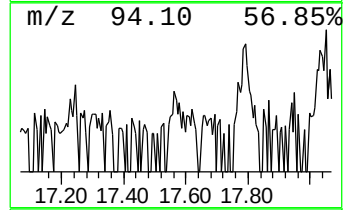
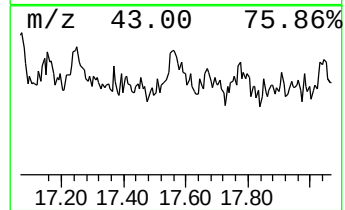
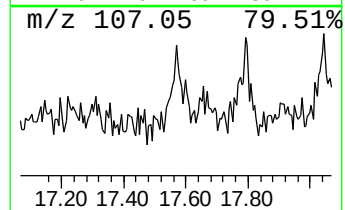
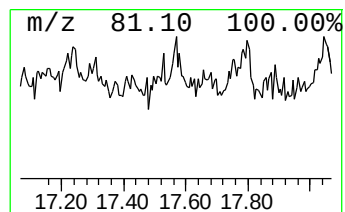
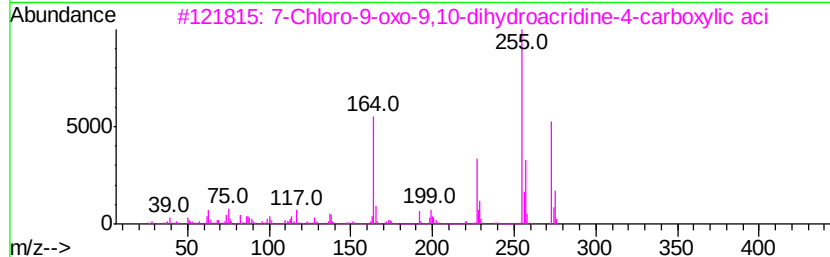
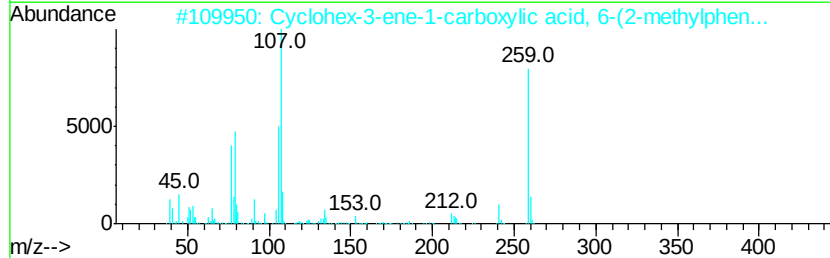
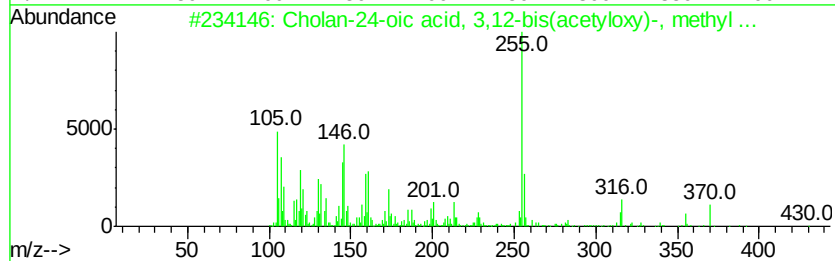
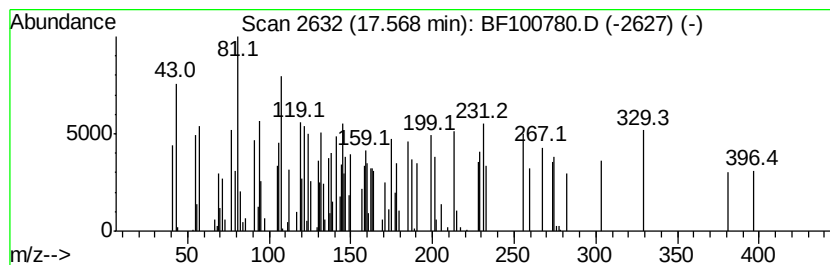
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown17.57 Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.57 | 3.60 ng | 94141 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cholan-24-oic acid, 3,12-bis(ace... | 490 | C29H46O6   | 001181-44-8  | 12   |
| 2    |    | Cyclohex-3-ene-1-carboxylic acid... | 259 | C15H17NO3  | 296246-13-4  | 10   |
| 3    |    | 7-Chloro-9-oxo-9,10-dihydroacrid... | 273 | C14H8ClNO3 | 024782-71-6  | 10   |
| 4    |    | 2,4-Hexadienamide, N-(4-methylph... | 201 | C13H15NO   | 1000362-68-5 | 9    |
| 5    |    | 1-(3,6-Dimethyl-2-pyrazinyl)prop... | 164 | C9H12N2O   | 115609-79-5  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

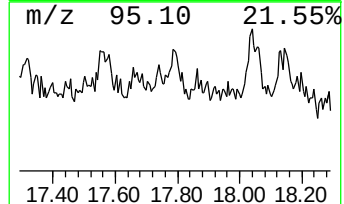
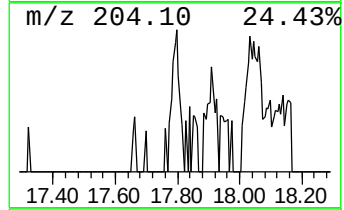
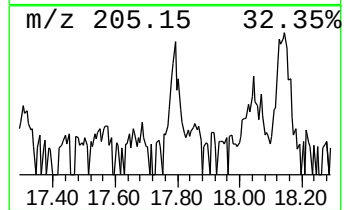
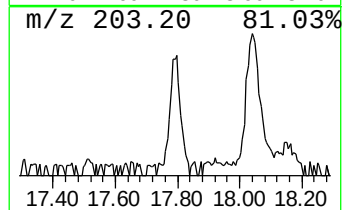
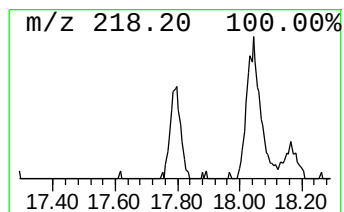
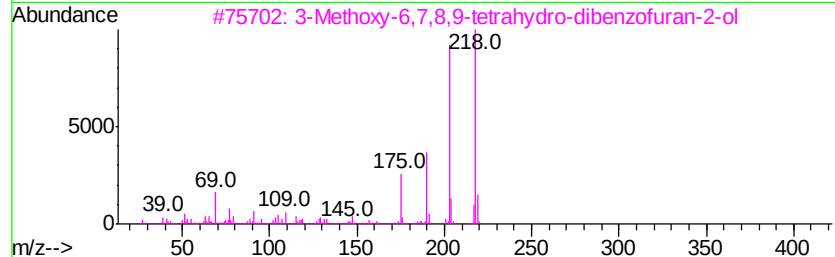
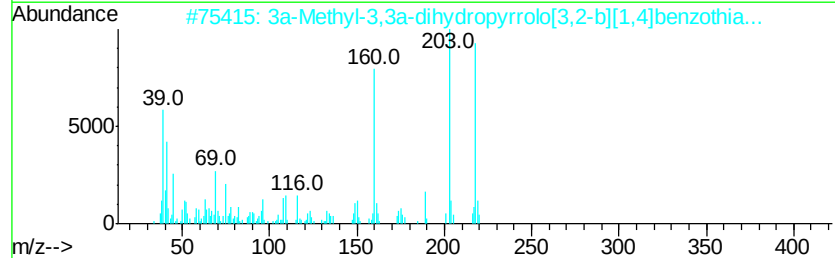
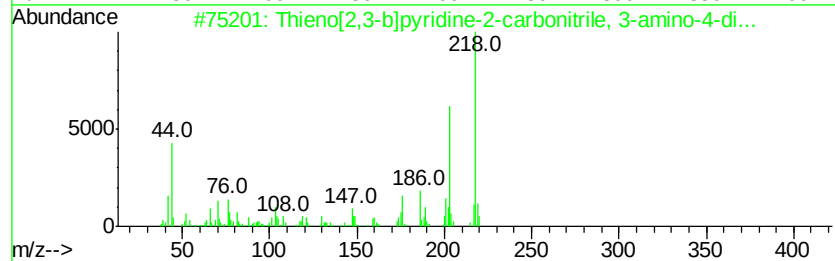
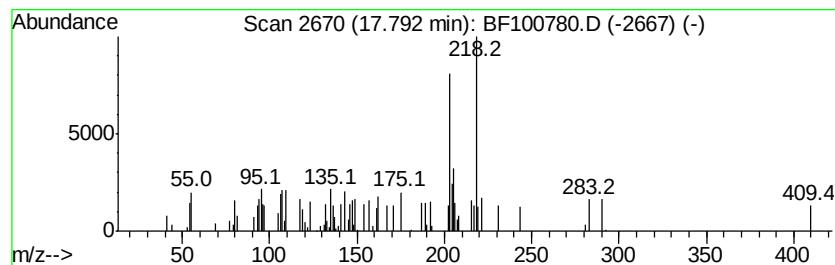
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown17.79 Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.79 | 3.13 ng | 81771 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Thieno[2,3-b]pyridine-2-carbonit... | 218 | C10H10N4S  | 147992-88-9  | 49   |
| 2    |    | 3a-Methyl-3,3a-dihydropyrrolo[3,... | 218 | C11H10N2OS | 017163-68-7  | 49   |
| 3    |    | 3-Methoxy-6,7,8,9-tetrahydro-dib... | 218 | C13H14O3   | 1000186-57-9 | 49   |
| 4    |    | 5H-Oxazolo[3,2-a]pyridine-8-carb... | 218 | C12H14N2O2 | 1000337-58-3 | 47   |
| 5    |    | 8-Amino-6,7-dimethoxy-4-methylqu... | 218 | C12H14N2O2 | 1000213-07-2 | 47   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

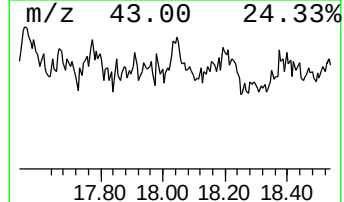
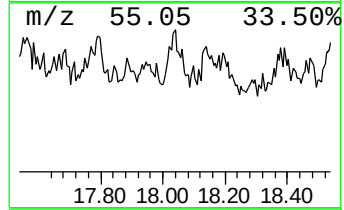
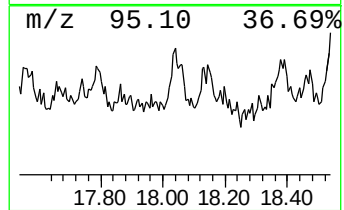
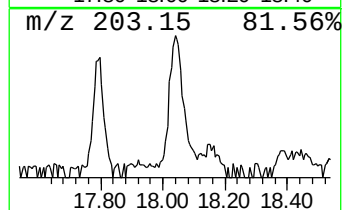
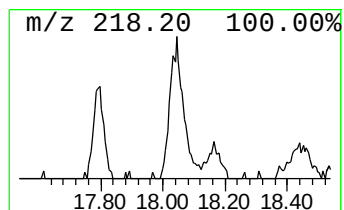
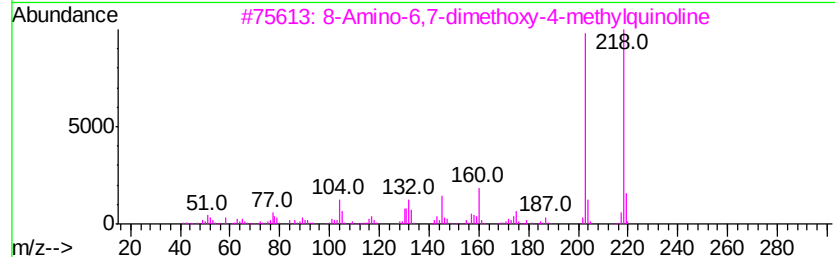
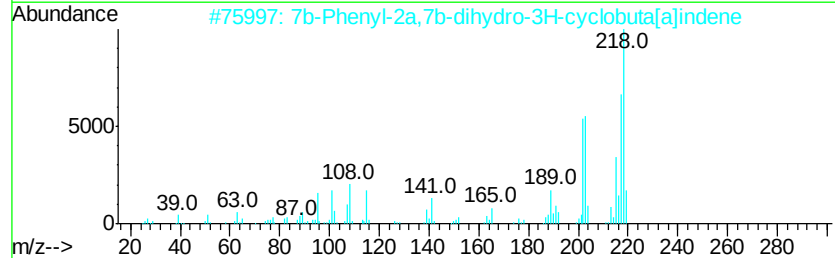
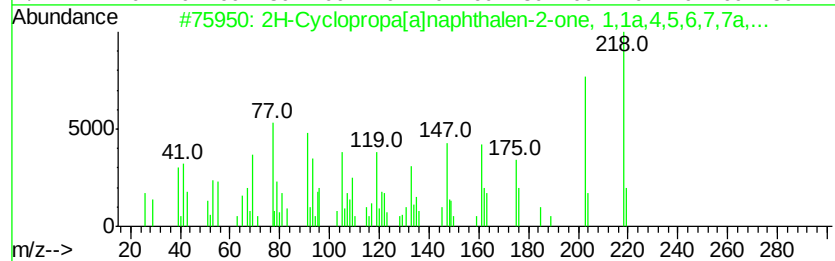
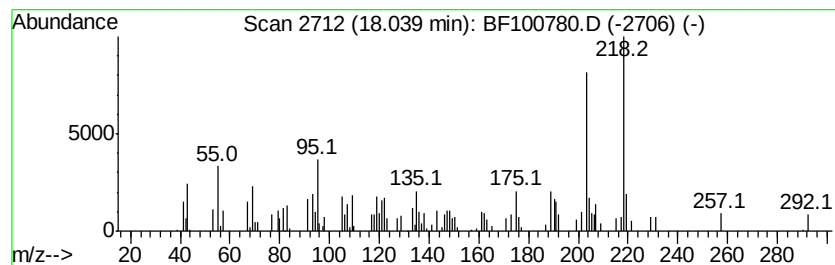
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 2H-Cyclopropa[a]naphthalen-... Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.04 | 4.61 ng | 120577 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2H-Cyclopropa[a]naphthalen-2-one... | 218 | C15H22O    | 006831-17-0  | 70   |
| 2    |    | 7b-Phenyl-2a,7b-dihydro-3H-cyclo... | 218 | C17H14     | 138089-70-0  | 58   |
| 3    |    | 8-Amino-6,7-dimethoxy-4-methylqu... | 218 | C12H14N2O2 | 1000213-07-2 | 50   |
| 4    |    | Quinolin-8-amine, 5,6-dimethoxy-... | 218 | C12H14N2O2 | 064992-95-6  | 49   |
| 5    |    | Pyrene, hexadecahydro-              | 218 | C16H26     | 002435-85-0  | 45   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
Data File : BF100780.D  
Acq On : 21 Nov 2017 15:11  
Operator : SJ/JU  
Sample : I6340-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

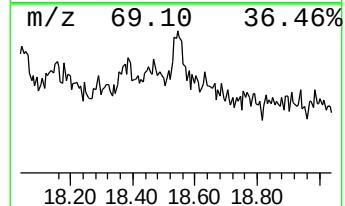
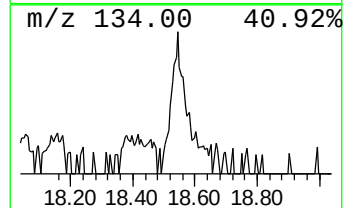
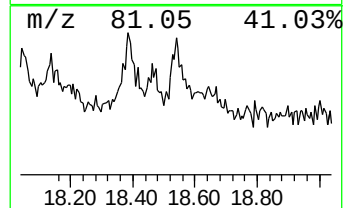
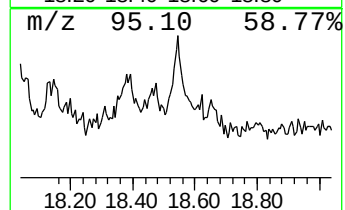
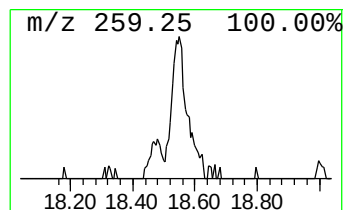
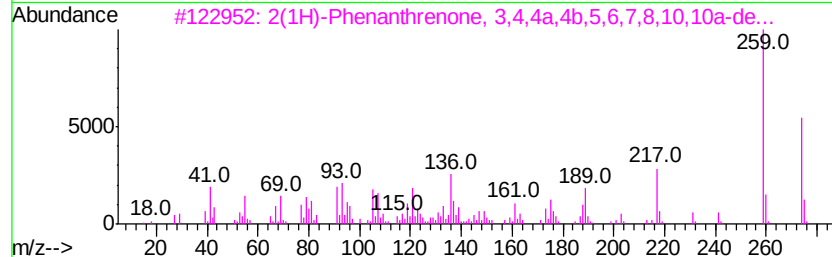
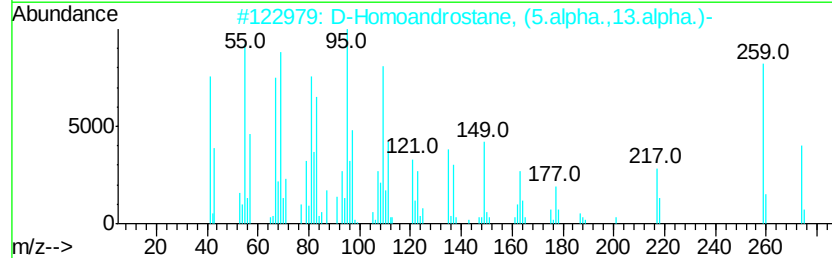
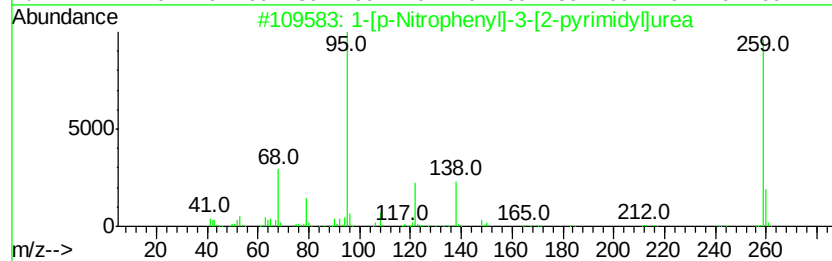
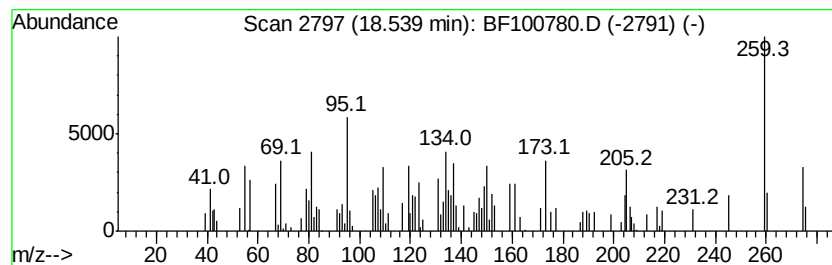
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 unknown18.54 Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.54 | 5.27 ng | 137686 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID                            | MW  | MolForm   | CAS#        | Qual |
|------|----|-----------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 1-[p-Nitrophenyl]-3-[2-pyrimidyl]urea   | 259 | C11H9N5O3 | 023656-31-7 | 35   |
| 2    |    | D-Homoandrostande, (5.alpha.,13.alpha.) | 274 | C20H34    | 054482-31-4 | 35   |
| 3    |    | 2(1H)-Phenanthrenone, 3,4,4a,4b...      | 274 | C19H30O   | 007715-44-8 | 30   |
| 4    |    | 10H-Phenoxaphosphine, 2-ethyl-10...     | 274 | C15H15O3P | 036360-91-5 | 27   |
| 5    |    | 1,3,4-Trimethoxydibenzofuran-2-ol       | 274 | C15H14O5  | 088256-05-7 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112117\  
 Data File : BF100780.D  
 Acq On : 21 Nov 2017 15:11  
 Operator : SJ/JU  
 Sample : I6340-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-2A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| 2-Pentanone, 4-hy... | 5.09  | 10.2    | ng    | 228152   | 1                     | 6.87  | 447578 | 20.0 |
| unknown6.64          | 6.64  | 68.2    | ng    | 1526680  | 1                     | 6.87  | 447578 | 20.0 |
| Phenanthrene, 1-m... | 11.92 | 2.7     | ng    | 100633   | 4                     | 11.39 | 738352 | 20.0 |
| Picein               | 13.76 | 2.9     | ng    | 78872    | 5                     | 14.03 | 548733 | 20.0 |
| unknown13.79         | 13.79 | 3.2     | ng    | 87428    | 5                     | 14.03 | 548733 | 20.0 |
| unknown13.86         | 13.86 | 8.9     | ng    | 245265   | 5                     | 14.03 | 548733 | 20.0 |
| unknown13.94         | 13.94 | 4.0     | ng    | 110773   | 5                     | 14.03 | 548733 | 20.0 |
| Octadecane           | 14.49 | 4.7     | ng    | 129750   | 5                     | 14.03 | 548733 | 20.0 |
| unknown14.56         | 14.56 | 2.5     | ng    | 68944    | 5                     | 14.03 | 548733 | 20.0 |
| Octadecanal          | 15.72 | 4.5     | ng    | 116332   | 6                     | 15.50 | 522759 | 20.0 |
| Octacosane           | 15.96 | 6.3     | ng    | 163557   | 6                     | 15.50 | 522759 | 20.0 |
| 1-Docosene           | 16.01 | 3.2     | ng    | 84598    | 6                     | 15.50 | 522759 | 20.0 |
| 2-Octadecyl-propa... | 16.76 | 5.3     | ng    | 139729   | 6                     | 15.50 | 522759 | 20.0 |
| unknown17.57         | 17.57 | 3.6     | ng    | 94141    | 6                     | 15.50 | 522759 | 20.0 |
| unknown17.79         | 17.79 | 3.1     | ng    | 81771    | 6                     | 15.50 | 522759 | 20.0 |
| 2H-Cyclopropa[a]n... | 18.04 | 4.6     | ng    | 120577   | 6                     | 15.50 | 522759 | 20.0 |
| unknown18.54         | 18.54 | 5.3     | ng    | 137686   | 6                     | 15.50 | 522759 | 20.0 |