

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121918\  
 Data File : BF111614.D  
 Acq On : 20 Dec 2018 2:20  
 Operator : JU/SJ  
 Sample : J6199-11 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-121818-B

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.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         | 5.504       | 577           | 581         | 585          | rBV      | 1079476        | 934364        | 4.35%           | 1.102%        |
| 2         | 6.510       | 747           | 752         | 758          | rBV      | 1235970        | 1083063       | 5.04%           | 1.278%        |
| 3         | 6.663       | 771           | 778         | 781          | rBV      | 1099912        | 1047312       | 4.87%           | 1.236%        |
| 4         | 6.898       | 814           | 818         | 820          | rBV      | 1345425        | 1115590       | 5.19%           | 1.316%        |
| 5         | 7.051       | 841           | 844         | 847          | rBV      | 978143         | 789964        | 3.67%           | 0.932%        |
| 6         | 7.445       | 905           | 911         | 914          | rBV2     | 715421         | 741704        | 3.45%           | 0.875%        |
| 7         | 7.498       | 917           | 920         | 924          | rVV      | 607881         | 475524        | 2.21%           | 0.561%        |
| 8         | 8.175       | 1031          | 1035        | 1038         | rBV2     | 1691718        | 1946387       | 9.05%           | 2.296%        |
| 9         | 8.475       | 1081          | 1086        | 1089         | rBV3     | 190777         | 254053        | 1.18%           | 0.300%        |
| 10        | 8.563       | 1098          | 1101        | 1104         | rBV2     | 224334         | 216781        | 1.01%           | 0.256%        |
| 11        | 8.686       | 1118          | 1122        | 1124         | rBV2     | 227170         | 225272        | 1.05%           | 0.266%        |
| 12        | 8.775       | 1134          | 1137        | 1141         | rBV      | 779970         | 633404        | 2.95%           | 0.747%        |
| 13        | 8.998       | 1169          | 1175        | 1178         | rBV4     | 157097         | 260002        | 1.21%           | 0.307%        |
| 14        | 9.251       | 1214          | 1218        | 1221         | rVB      | 1135343        | 880085        | 4.09%           | 1.038%        |
| 15        | 9.339       | 1230          | 1233        | 1237         | rBV      | 816178         | 648792        | 3.02%           | 0.765%        |
| 16        | 9.663       | 1282          | 1288        | 1289         | rBV4     | 214773         | 346542        | 1.61%           | 0.409%        |
| 17        | 9.869       | 1320          | 1323        | 1326         | rVB      | 791007         | 576147        | 2.68%           | 0.680%        |
| 18        | 9.933       | 1331          | 1334        | 1337         | rVB      | 1612693        | 1388093       | 6.46%           | 1.638%        |
| 19        | 10.369      | 1402          | 1408        | 1411         | rBV      | 770969         | 649012        | 3.02%           | 0.766%        |
| 20        | 10.592      | 1439          | 1446        | 1448         | rBV      | 236840         | 337485        | 1.57%           | 0.398%        |
| 21        | 10.710      | 1463          | 1466        | 1471         | rVB2     | 709963         | 623353        | 2.90%           | 0.735%        |
| 22        | 10.839      | 1485          | 1488        | 1495         | rBV      | 738566         | 755990        | 3.52%           | 0.892%        |
| 23        | 11.286      | 1561          | 1564        | 1567         | rBV      | 598762         | 480961        | 2.24%           | 0.567%        |
| 24        | 11.321      | 1567          | 1570        | 1575         | rVB2     | 233364         | 268951        | 1.25%           | 0.317%        |
| 25        | 11.416      | 1582          | 1586        | 1588         | rBV      | 1471235        | 1325104       | 6.16%           | 1.563%        |
| 26        | 11.433      | 1588          | 1589        | 1592         | rVB      | 480781         | 375247        | 1.75%           | 0.443%        |
| 27        | 11.716      | 1634          | 1637        | 1638         | rBV      | 508061         | 430123        | 2.00%           | 0.507%        |
| 28        | 11.733      | 1638          | 1640        | 1644         | rVB2     | 367016         | 309057        | 1.44%           | 0.365%        |
| 29        | 11.816      | 1650          | 1654        | 1657         | rBV      | 9044505        | 7856435       | 36.54%          | 9.269%        |
| 30        | 11.939      | 1673          | 1675        | 1679         | rVB      | 303831         | 265717        | 1.24%           | 0.313%        |
| 31        | 12.121      | 1700          | 1706        | 1714         | rBV2     | 462186         | 570770        | 2.65%           | 0.673%        |
| 32        | 12.510      | 1766          | 1772        | 1774         | rBV      | 14051581       | 21498705      | 100.00%         | 25.363%       |
| 33        | 12.539      | 1774          | 1777        | 1781         | rVV      | 16055602       | 19431017      | 90.38%          | 22.924%       |
| 34        | 12.574      | 1781          | 1783        | 1785         | rVB      | 417727         | 306363        | 1.43%           | 0.361%        |

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Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.604 | 1785 | 1788 | 1791 | rBV  | 4016202 | 3668250 | 17.06% | 4.328% |
| 36 | 12.627 | 1791 | 1792 | 1795 | rVV2 | 617717  | 431536  | 2.01%  | 0.509% |
| 37 | 12.657 | 1795 | 1797 | 1800 | rVB  | 621670  | 478057  | 2.22%  | 0.564% |
| 38 | 12.839 | 1824 | 1828 | 1829 | rBV  | 903413  | 849542  | 3.95%  | 1.002% |
| 39 | 12.851 | 1829 | 1830 | 1833 | rVV  | 616037  | 478288  | 2.22%  | 0.564% |
| 40 | 12.880 | 1833 | 1835 | 1840 | rVB  | 370324  | 312464  | 1.45%  | 0.369% |
| 41 | 12.998 | 1852 | 1855 | 1858 | rBV  | 1024399 | 819035  | 3.81%  | 0.966% |
| 42 | 13.163 | 1880 | 1883 | 1885 | rBV  | 773349  | 675408  | 3.14%  | 0.797% |
| 43 | 13.186 | 1885 | 1887 | 1890 | rVV2 | 371077  | 403940  | 1.88%  | 0.477% |
| 44 | 13.251 | 1893 | 1898 | 1901 | rVB2 | 771009  | 1058878 | 4.93%  | 1.249% |
| 45 | 13.327 | 1908 | 1911 | 1915 | rVB  | 660946  | 522695  | 2.43%  | 0.617% |
| 46 | 13.574 | 1951 | 1953 | 1956 | rBV  | 253836  | 232272  | 1.08%  | 0.274% |
| 47 | 13.992 | 2021 | 2024 | 2029 | rBV  | 532564  | 518050  | 2.41%  | 0.611% |
| 48 | 14.045 | 2029 | 2033 | 2036 | rVV2 | 1446450 | 1642232 | 7.64%  | 1.937% |
| 49 | 14.221 | 2060 | 2063 | 2068 | rVB  | 317979  | 301994  | 1.40%  | 0.356% |
| 50 | 14.504 | 2108 | 2111 | 2113 | rBV  | 304507  | 376084  | 1.75%  | 0.444% |
| 51 | 14.527 | 2113 | 2115 | 2118 | rVB2 | 321911  | 285446  | 1.33%  | 0.337% |
| 52 | 14.615 | 2127 | 2130 | 2137 | rBV4 | 242621  | 292933  | 1.36%  | 0.346% |
| 53 | 14.839 | 2165 | 2168 | 2171 | rBV  | 264659  | 262460  | 1.22%  | 0.310% |
| 54 | 14.951 | 2183 | 2187 | 2198 | rVB  | 564883  | 954146  | 4.44%  | 1.126% |
| 55 | 15.180 | 2223 | 2226 | 2232 | rVB2 | 304802  | 390262  | 1.82%  | 0.460% |
| 56 | 15.521 | 2280 | 2284 | 2288 | rVB  | 660830  | 761252  | 3.54%  | 0.898% |

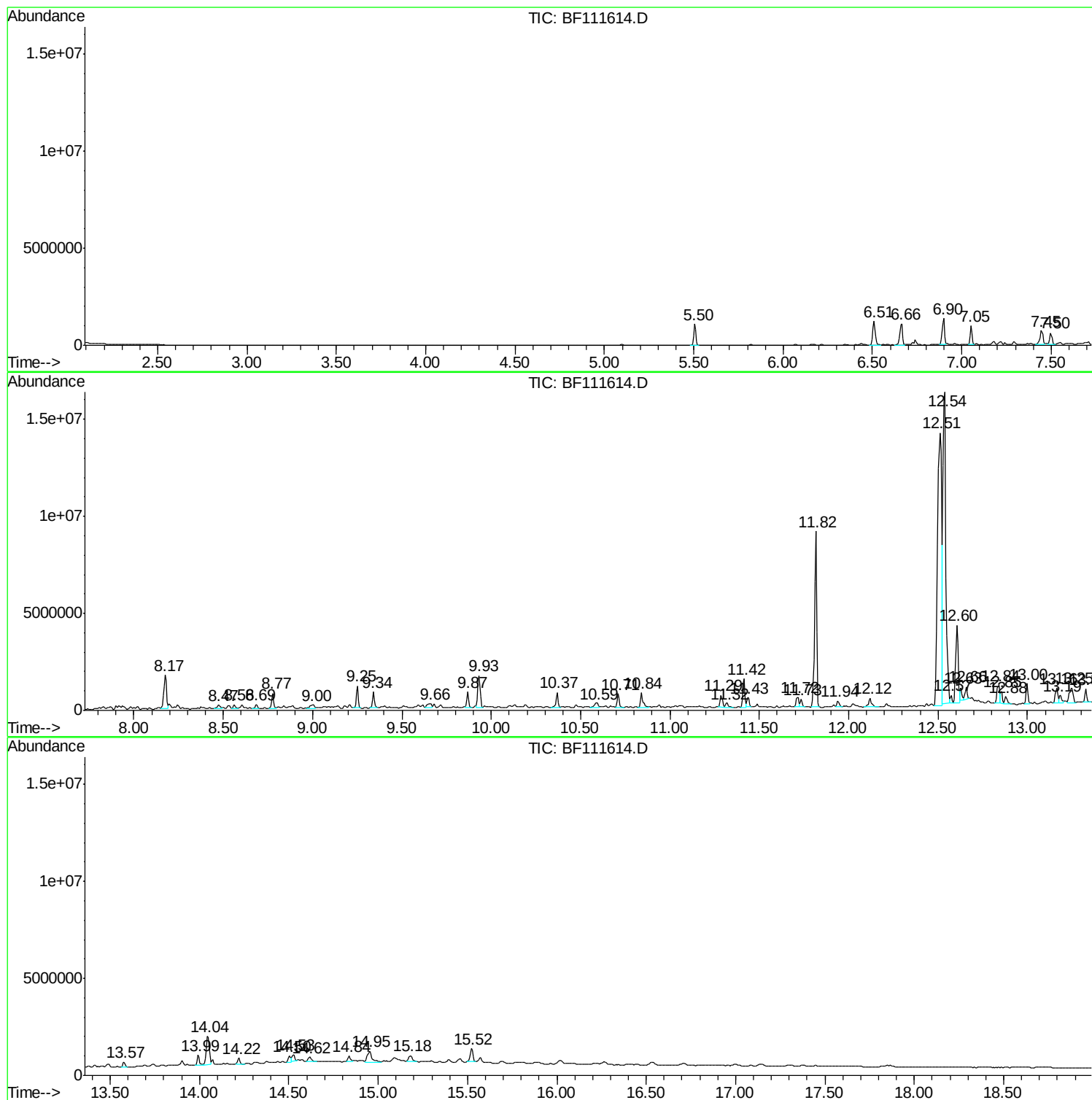
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

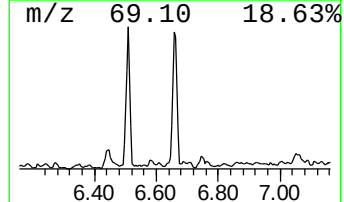
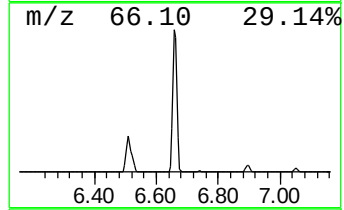
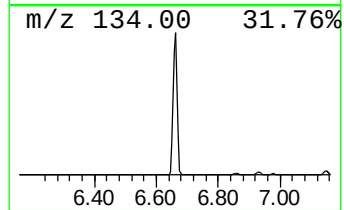
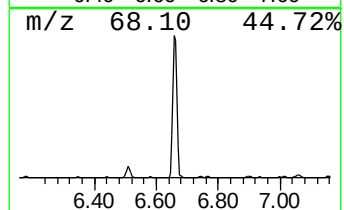
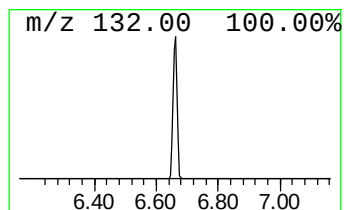
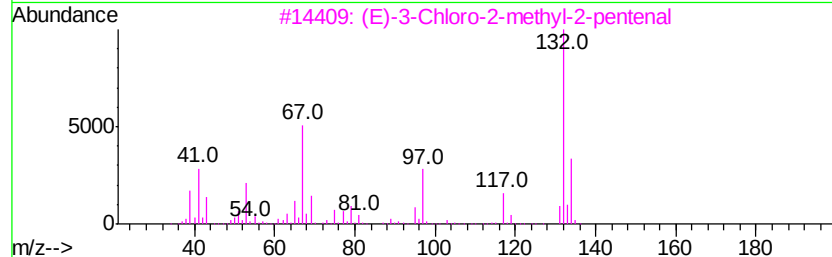
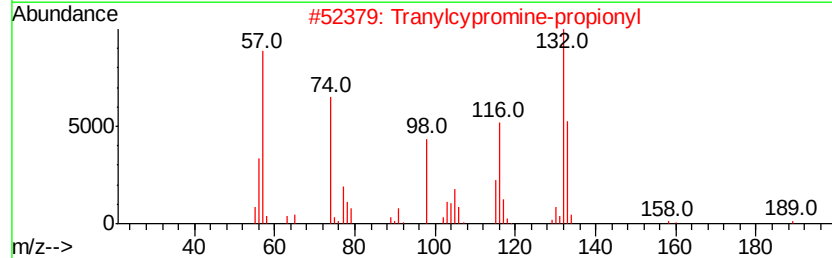
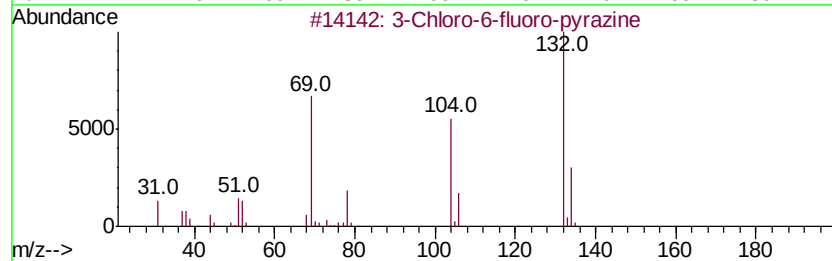
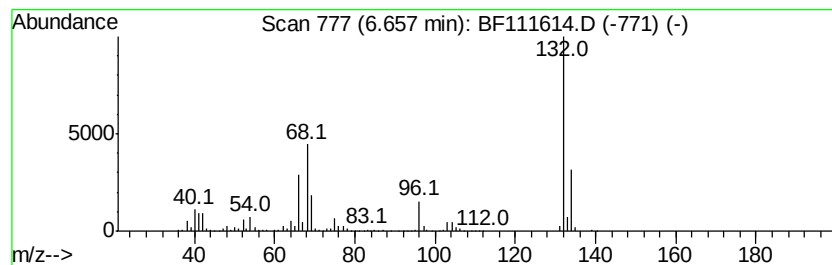
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.66 Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 18.78 ng | 1047310 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

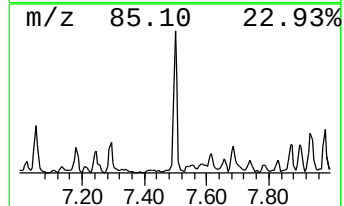
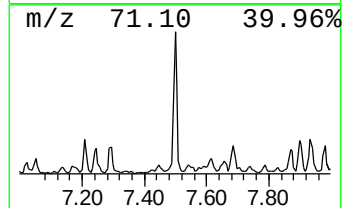
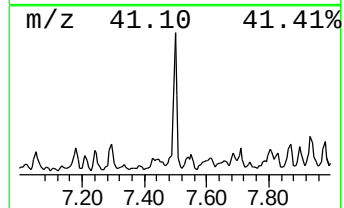
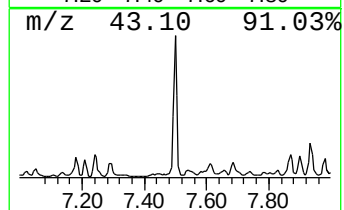
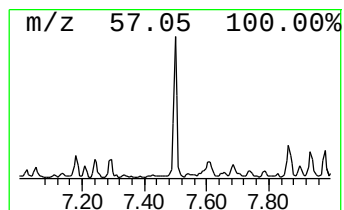
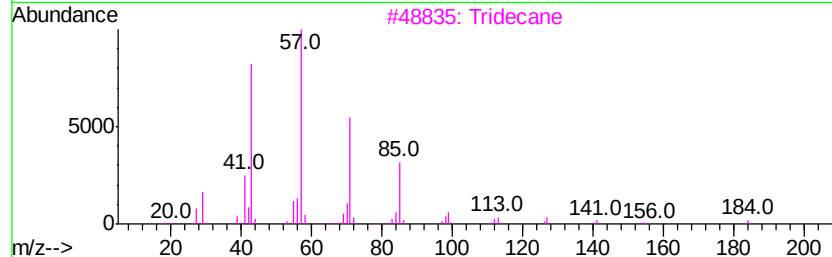
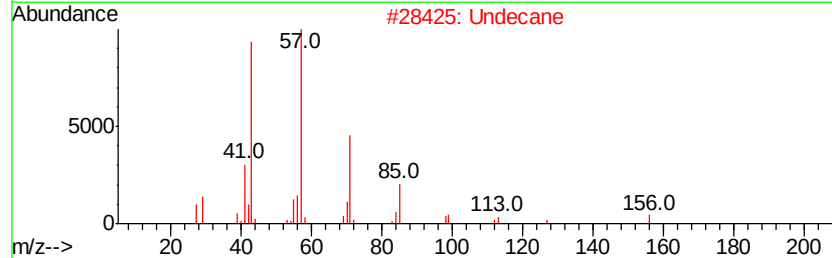
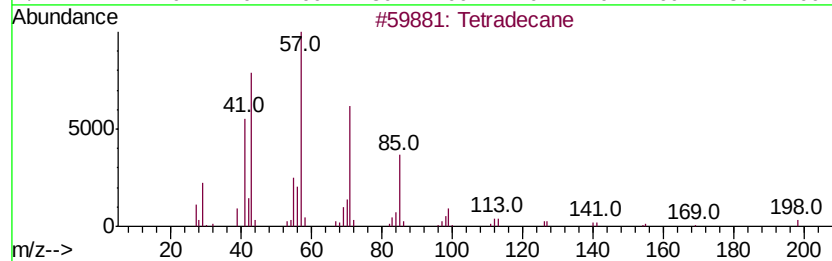
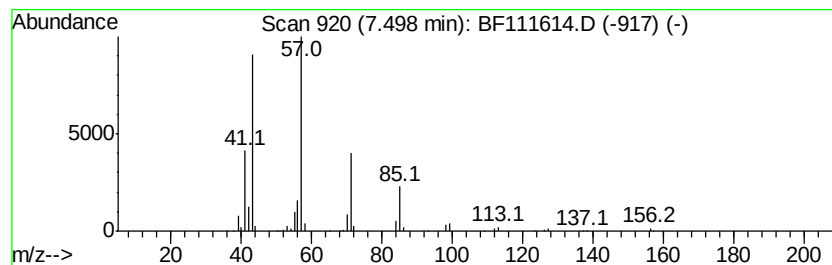
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Tetradecane Concentration Rank 13

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.50 | 8.53 ng | 475524 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|---------|---|--------------------------------------|-----|-----------|--------------|------|
| 1       |   | Tetradecane                          | 198 | C14H30    | 000629-59-4  | 90   |
| 2       |   | Undecane                             | 156 | C11H24    | 001120-21-4  | 83   |
| 3       |   | Tridecane                            | 184 | C13H28    | 000629-50-5  | 78   |
| 4       |   | Decane, 2,9-dimethyl-                | 170 | C12H26    | 001002-17-1  | 78   |
| 5       |   | Sulfurous acid, 2-propyl tetradec... | 320 | C17H36O3S | 1000309-12-5 | 78   |



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Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

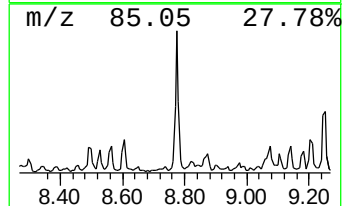
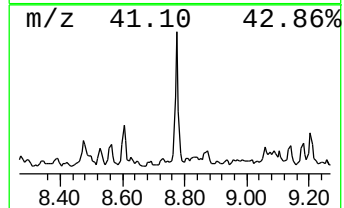
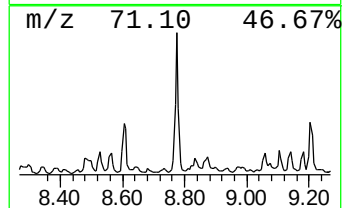
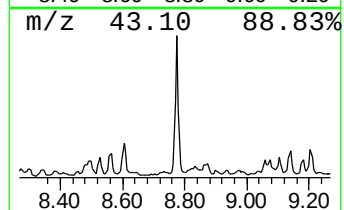
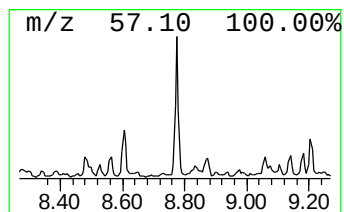
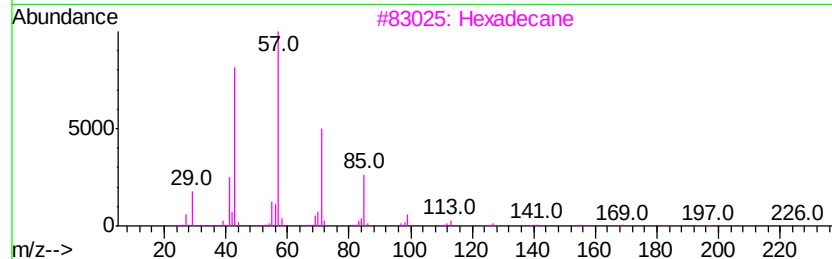
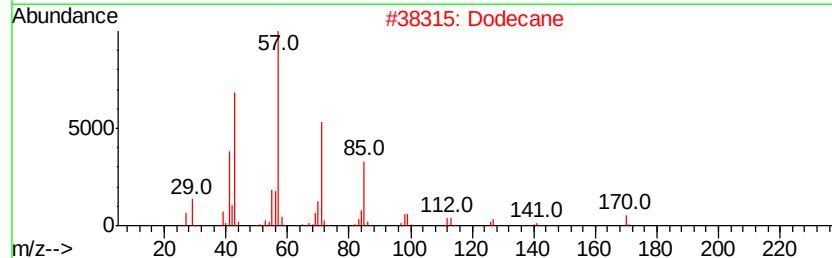
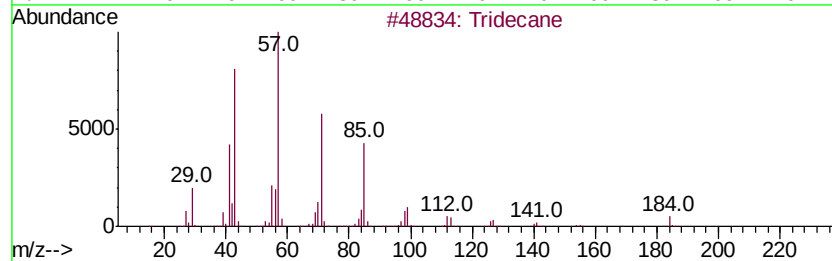
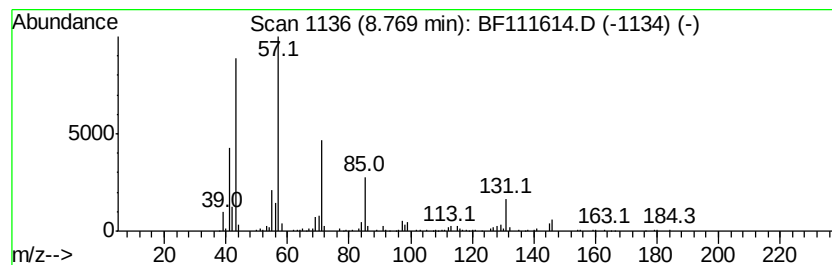
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tridecane Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.77 | 6.51 ng | 633404 | Naphthalene-d8   | 8.18 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane        | 184 | C13H28  | 000629-50-5 | 93   |
| 2    |    | Dodecane         | 170 | C12H26  | 000112-40-3 | 86   |
| 3    |    | Hexadecane       | 226 | C16H34  | 000544-76-3 | 86   |
| 4    |    | Tetradecane      | 198 | C14H30  | 000629-59-4 | 86   |
| 5    |    | Nonane, 5-butyl- | 184 | C13H28  | 017312-63-9 | 81   |



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Misc :  
ALS Vial : 18 Sample Multiplier: 1

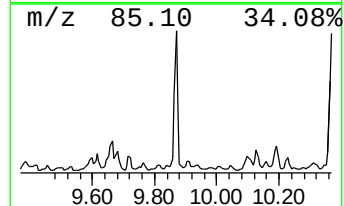
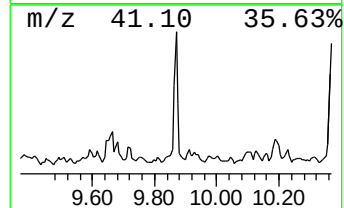
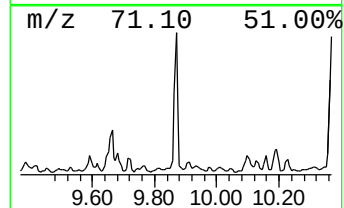
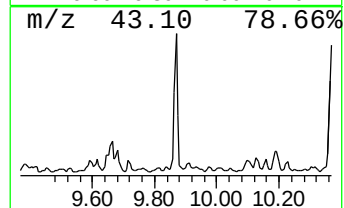
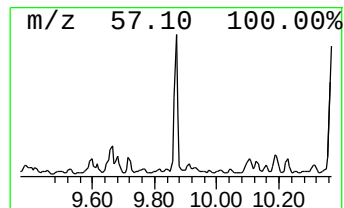
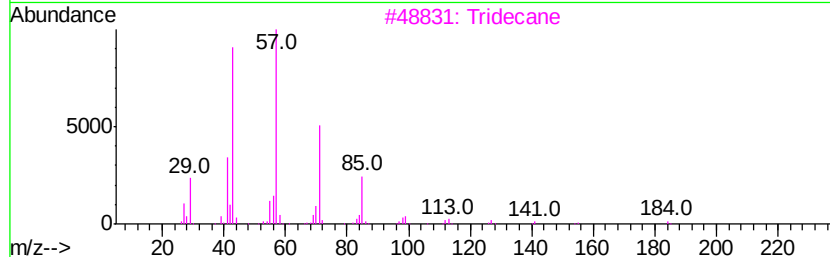
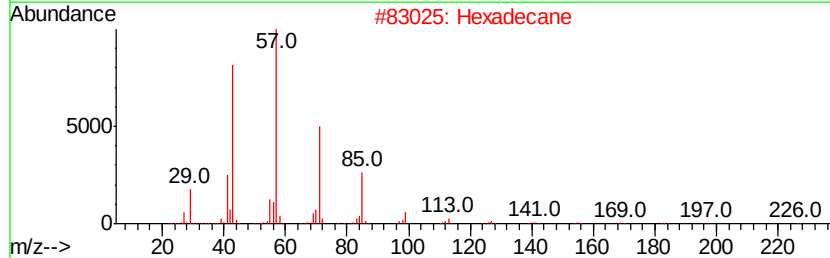
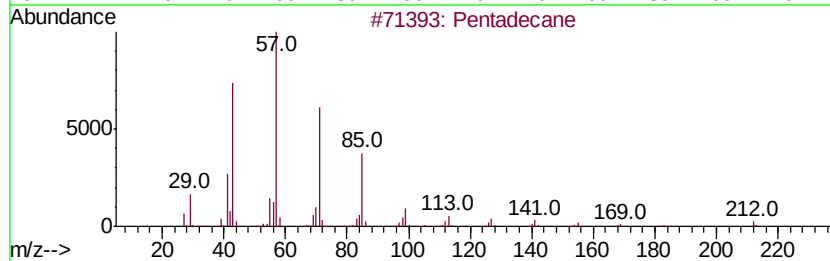
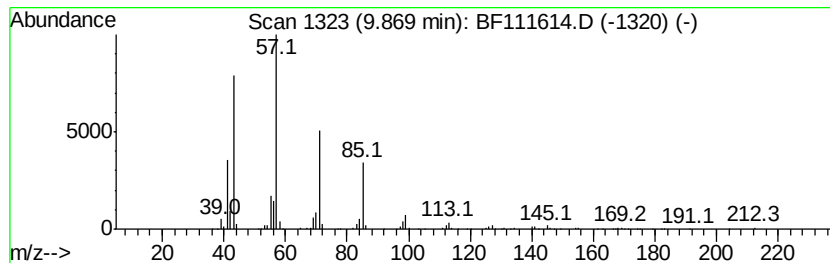
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SU-02-121818-B

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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 6 Pentadecane Concentration Rank 14

| R.T.      | EstConc      | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------|--------|------------------|-------------|------|
| 9.87      | 8.30 ng      | 576147 | Acenaphthene-d10 | 9.93        |      |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual |
| 1         | Pentadecane  | 212    | C15H32           | 000629-62-9 | 93   |
| 2         | Hexadecane   | 226    | C16H34           | 000544-76-3 | 91   |
| 3         | Tridecane    | 184    | C13H28           | 000629-50-5 | 90   |
| 4         | Undecane     | 156    | C11H24           | 001120-21-4 | 86   |
| 5         | Tetradecane  | 198    | C14H30           | 000629-59-4 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

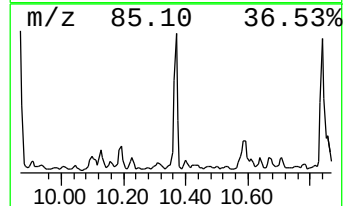
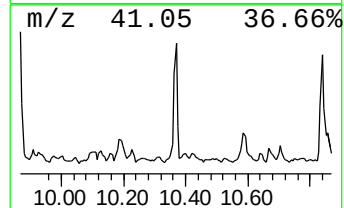
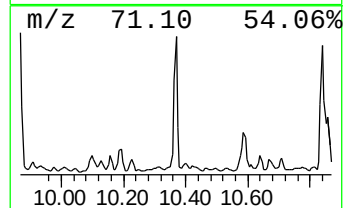
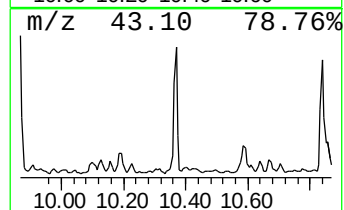
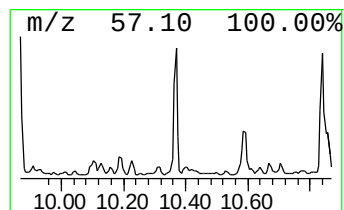
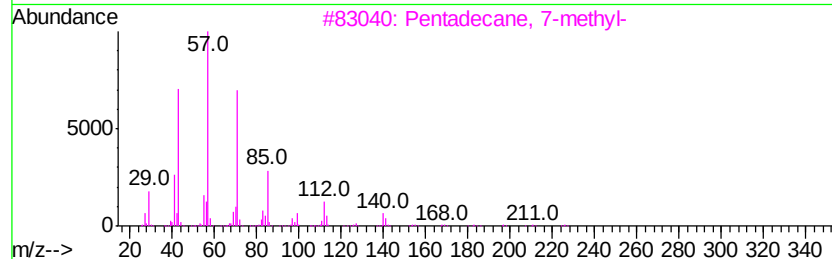
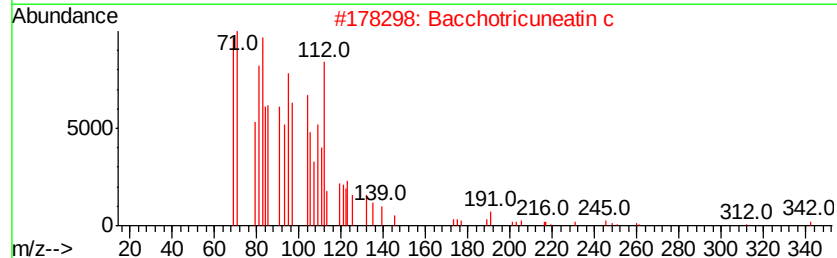
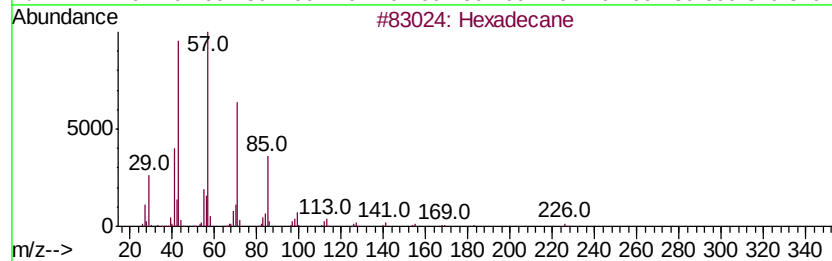
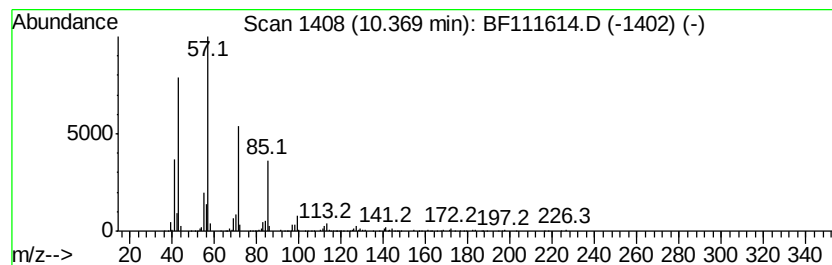
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SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Hexadecane Concentration Rank 10

| R.T.      | EstConc                | Area   | Relative to ISTD |             | R.T. |
|-----------|------------------------|--------|------------------|-------------|------|
| 10.37     | 9.35 ng                | 649012 | Acenaphthene-d10 |             | 9.93 |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecane             | 226    | C16H34           | 000544-76-3 | 97   |
| 2         | Bacchotricuneatin c    | 342    | C20H22O5         | 066563-30-2 | 96   |
| 3         | Pentadecane, 7-methyl- | 226    | C16H34           | 006165-40-8 | 91   |
| 4         | Tetradecane            | 198    | C14H30           | 000629-59-4 | 90   |
| 5         | Heptadecane            | 240    | C17H36           | 000629-78-7 | 86   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

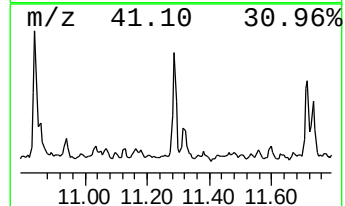
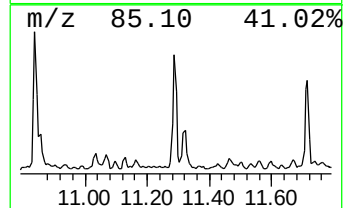
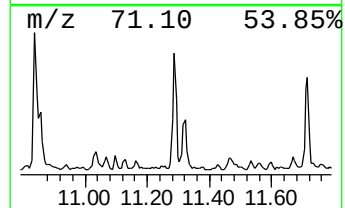
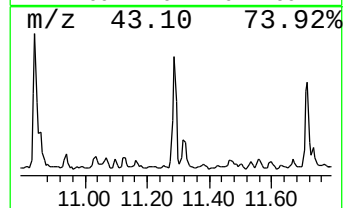
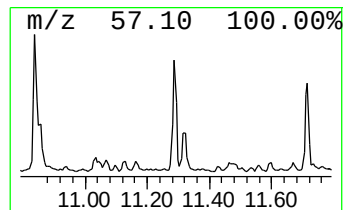
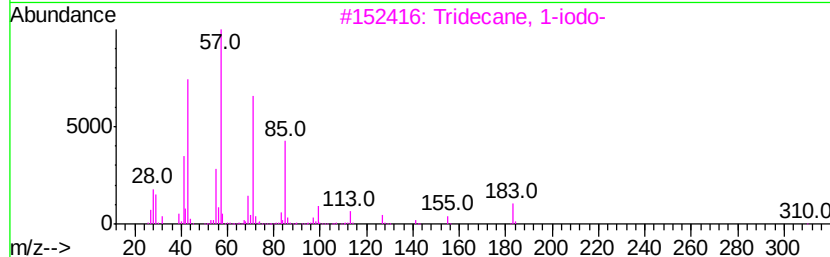
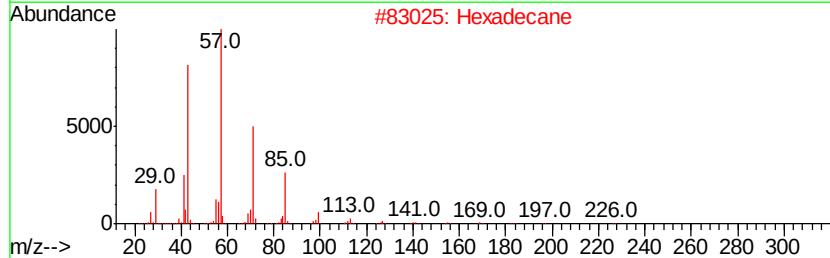
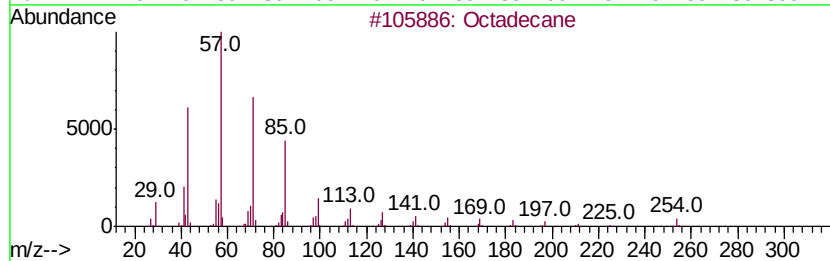
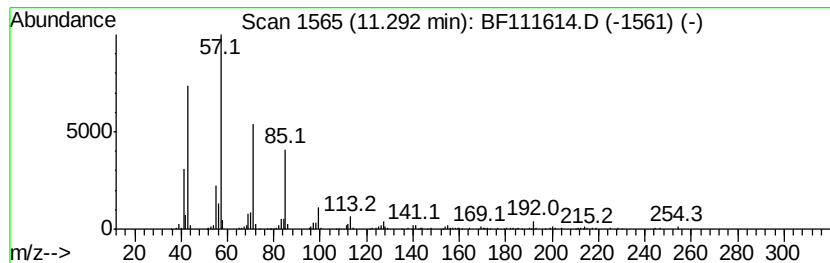
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SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.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 16

| R.T.      | EstConc            | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------|--------|------------------|-------------|-------|
| 11.29     | 7.26 ng            | 480961 | Phenanthrene-d10 |             | 11.42 |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual  |
| 1         | Octadecane         | 254    | C18H38           | 000593-45-3 | 93    |
| 2         | Hexadecane         | 226    | C16H34           | 000544-76-3 | 90    |
| 3         | Tridecane, 1-iodo- | 310    | C13H27I          | 035599-77-0 | 90    |
| 4         | Tetracosane        | 338    | C24H50           | 000646-31-1 | 90    |
| 5         | Heptacosane        | 380    | C27H56           | 000593-49-7 | 86    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

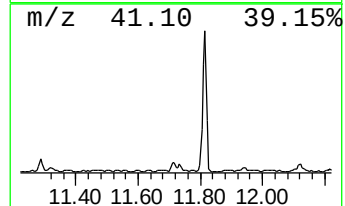
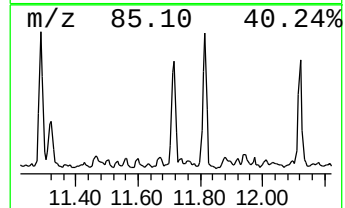
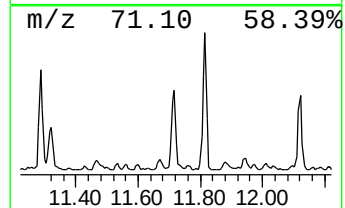
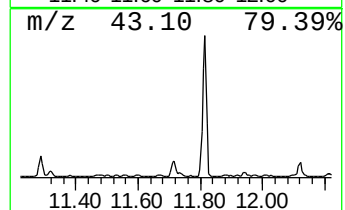
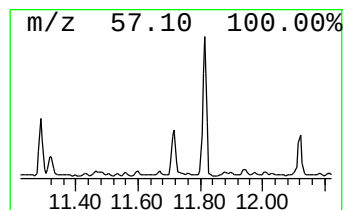
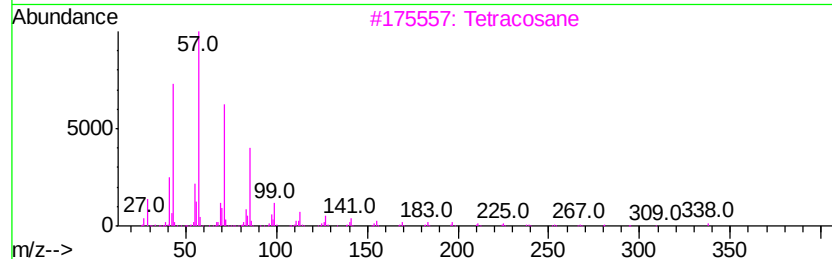
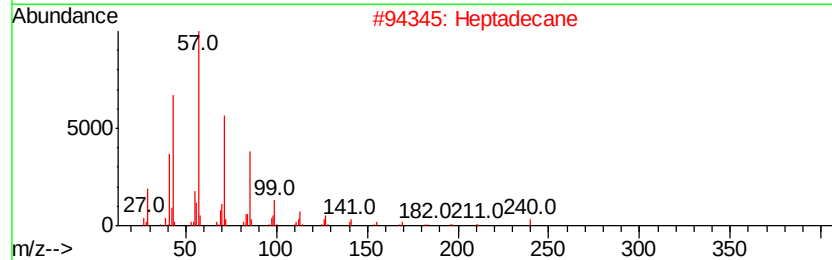
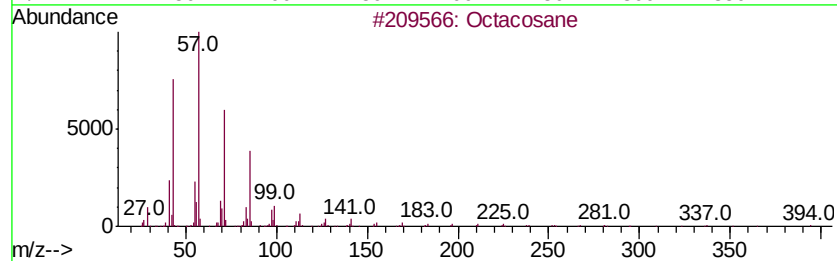
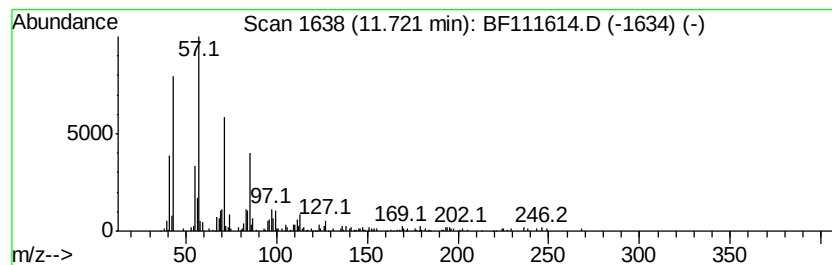
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SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.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 10 Octacosane Concentration Rank 19

| R.T.      | EstConc      | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------|--------|------------------|-------------|------|
| 11.72     | 6.49 ng      | 430123 | Phenanthrene-d10 | 11.42       |      |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual |
| 1         | Octacosane   | 394    | C28H58           | 000630-02-4 | 91   |
| 2         | Heptadecane  | 240    | C17H36           | 000629-78-7 | 90   |
| 3         | Tetracosane  | 338    | C24H50           | 000646-31-1 | 90   |
| 4         | Pentacosane  | 352    | C25H52           | 000629-99-2 | 90   |
| 5         | Pentadecane  | 212    | C15H32           | 000629-62-9 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

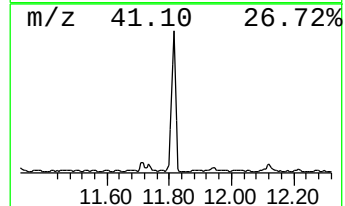
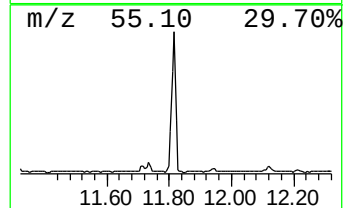
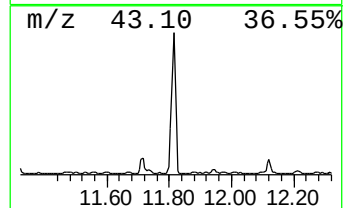
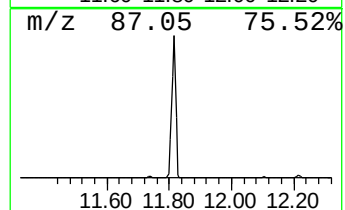
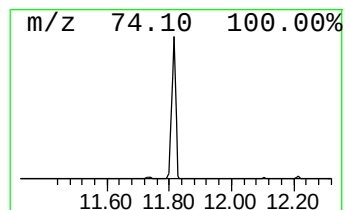
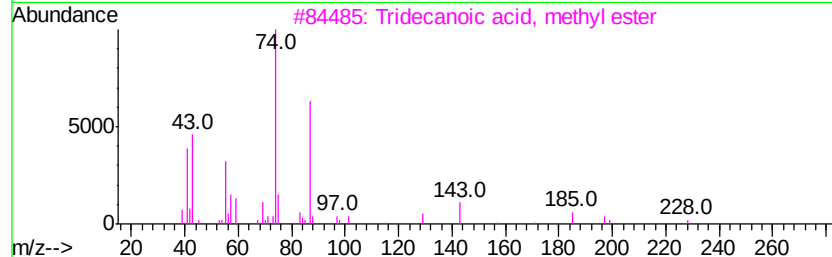
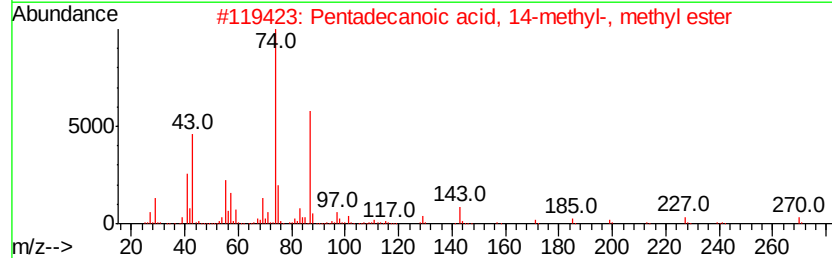
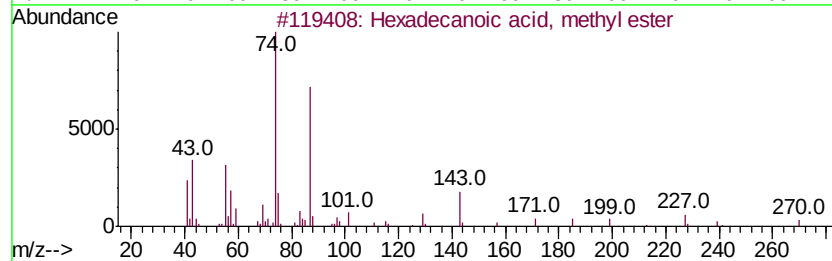
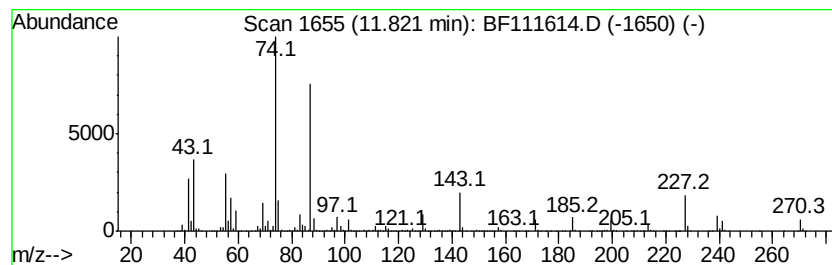
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 11.82 | 118.58 ng | 7856440 | Phenanthrene-d10 | 11.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 96   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 91   |
| 4    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 91   |
| 5    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

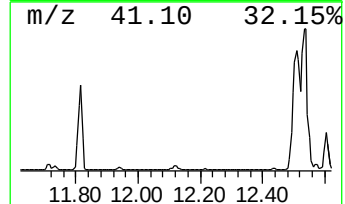
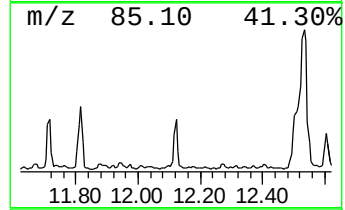
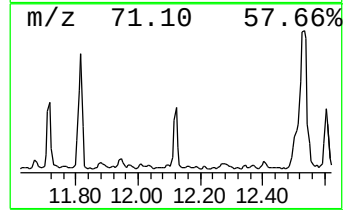
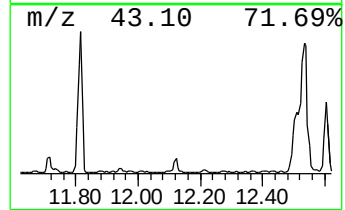
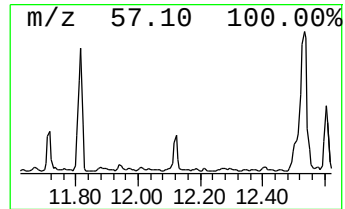
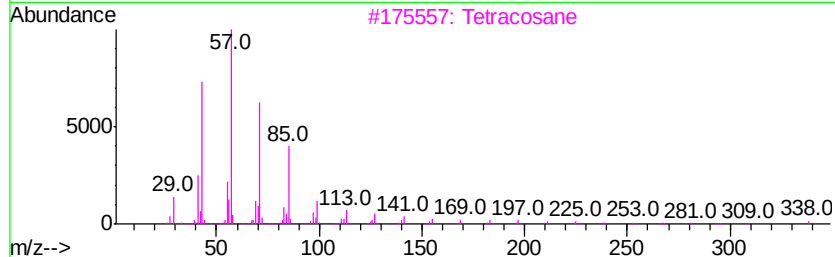
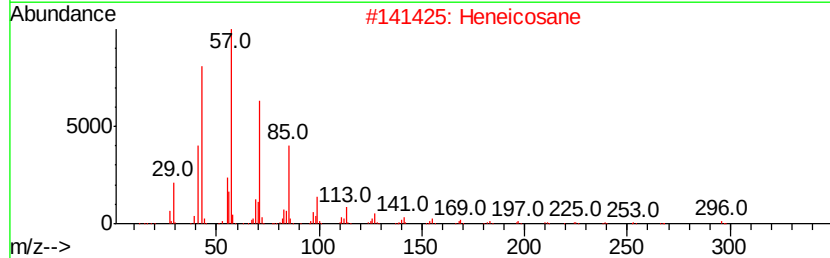
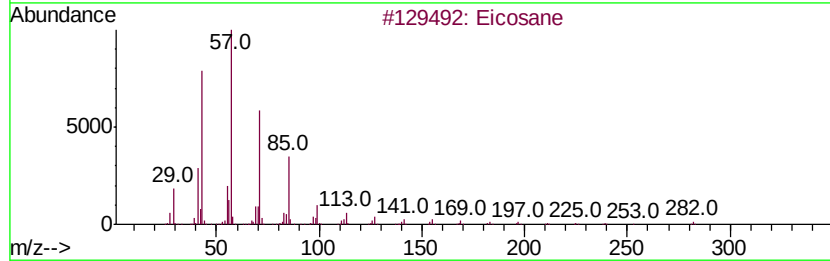
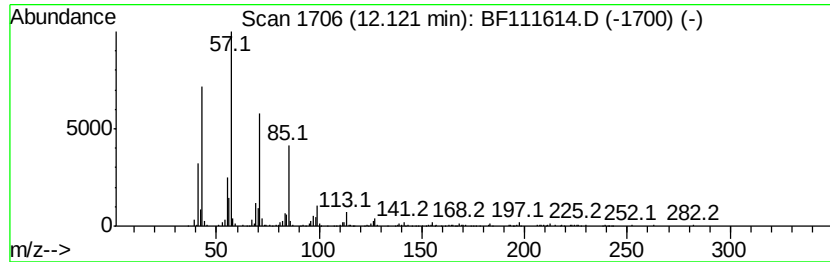
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Eicosane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.12 | 8.61 ng | 570770 | Phenanthrene-d10 | 11.42 |

| Hit# of | 5                | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|------------------|--------------|-----|----------|-------------|------|
| 1       | Eicosane         |              | 282 | C20H42   | 000112-95-8 | 94   |
| 2       | Heneicosane      |              | 296 | C21H44   | 000629-94-7 | 91   |
| 3       | Tetracosane      |              | 338 | C24H50   | 000646-31-1 | 91   |
| 4       | Octadecane       |              | 254 | C18H38   | 000593-45-3 | 91   |
| 5       | 2-Bromo dodecane |              | 248 | C12H25Br | 013187-99-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

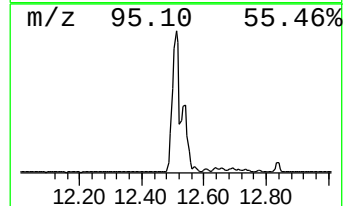
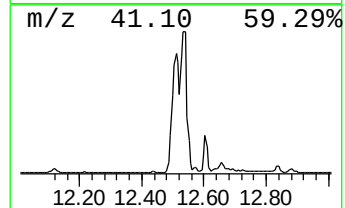
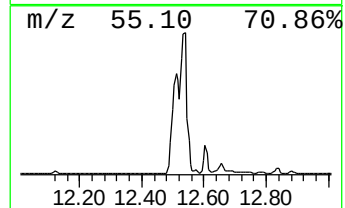
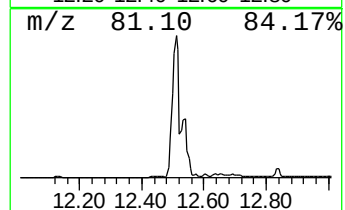
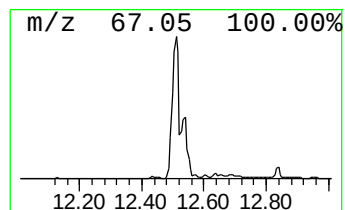
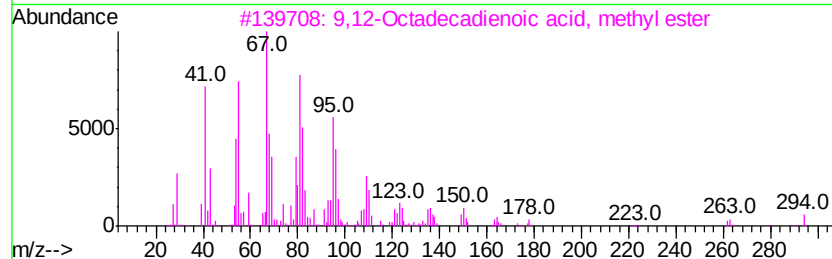
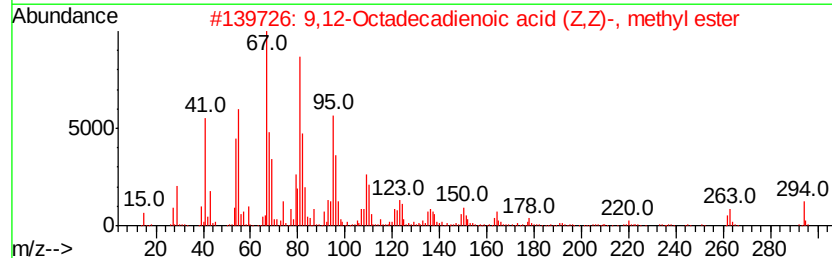
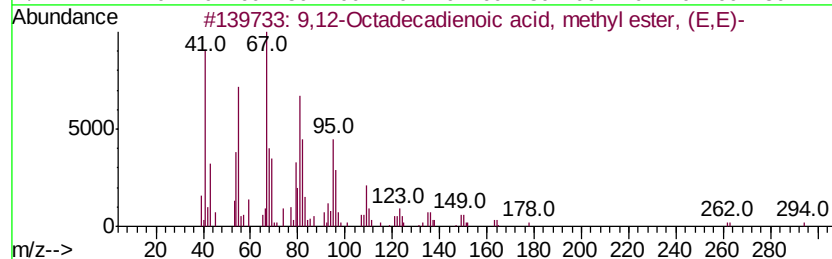
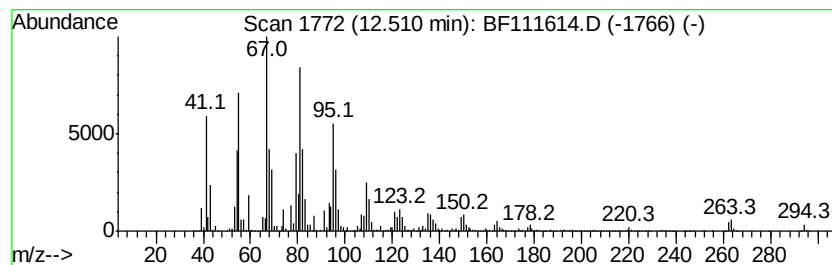
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.51 | 324.48 ng | 21498700 | Phenanthrene-d10 | 11.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 2    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |
| 3    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99   |
| 4    |    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 5    |    | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

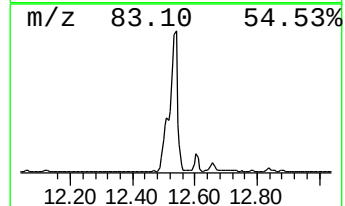
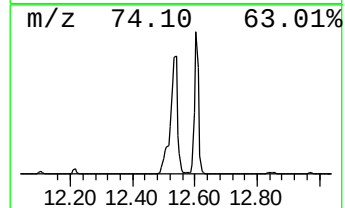
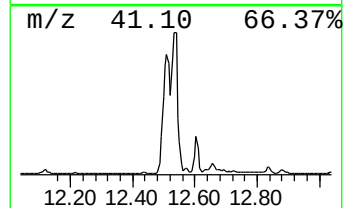
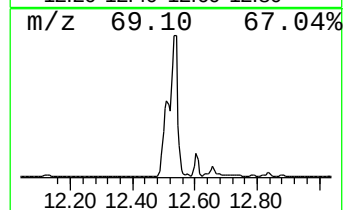
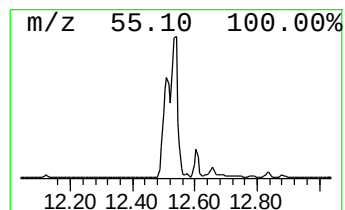
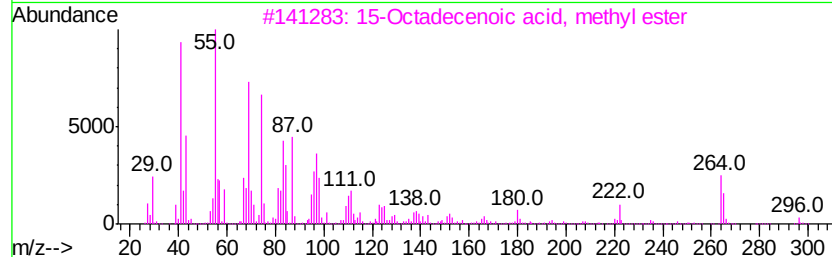
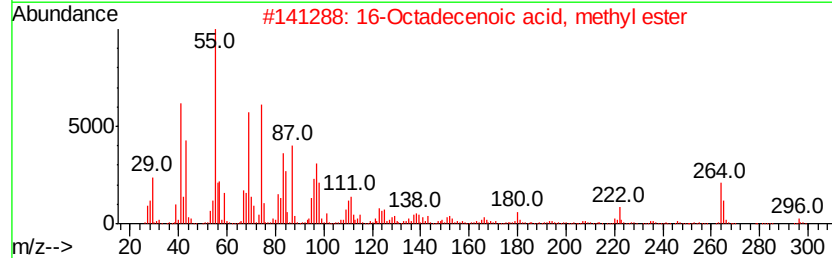
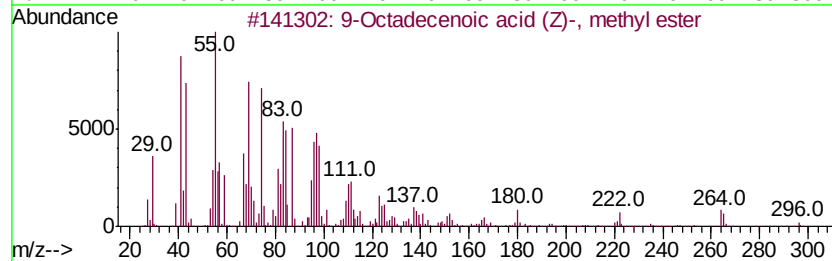
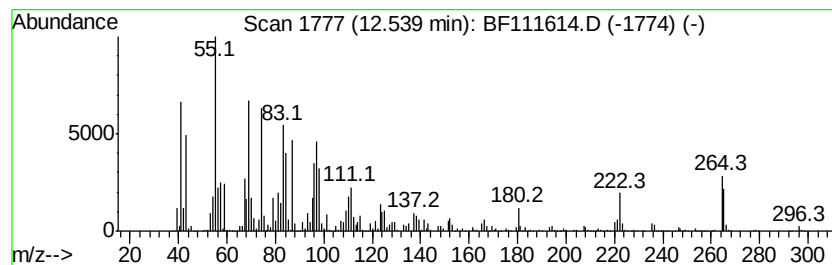
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ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.      | EstConc                             | Area     | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|----------|------------------|-------------|------|
| 12.54     | 293.28 ng                           | 19431000 | Phenanthrene-d10 | 11.42       |      |
| Hit# of 5 | Tentative ID                        | MW       | MolForm          | CAS#        | Qual |
| 1         | 9-Octadecenoic acid (Z)-, methyl... | 296      | C19H36O2         | 000112-62-9 | 99   |
| 2         | 16-Octadecenoic acid, methyl ester  | 296      | C19H36O2         | 056554-49-5 | 99   |
| 3         | 15-Octadecenoic acid, methyl ester  | 296      | C19H36O2         | 004764-72-1 | 98   |
| 4         | 13-Octadecenoic acid, methyl ester  | 296      | C19H36O2         | 056554-47-3 | 98   |
| 5         | 14-Octadecenoic acid, methyl ester  | 296      | C19H36O2         | 056554-48-4 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

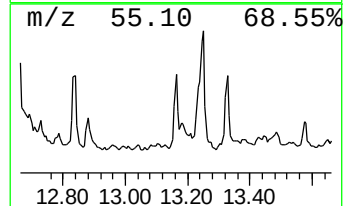
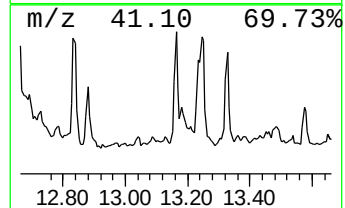
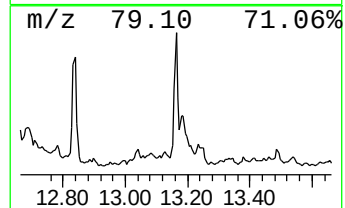
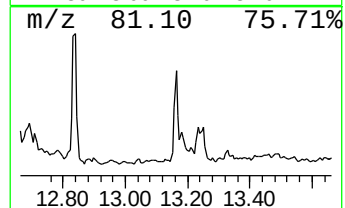
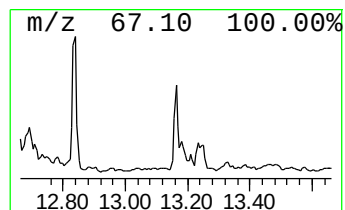
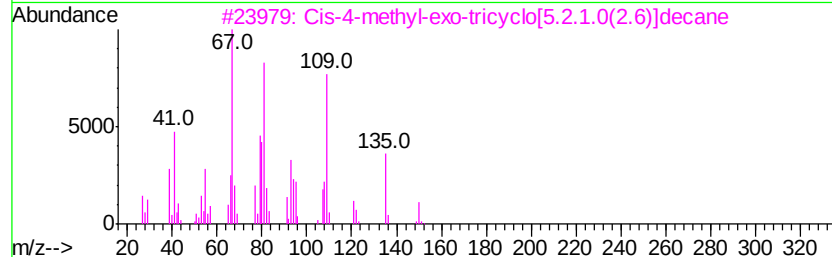
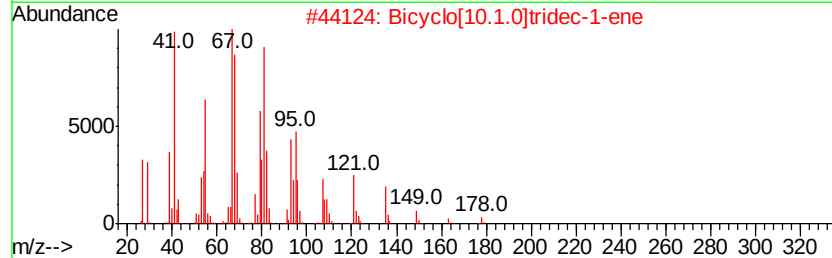
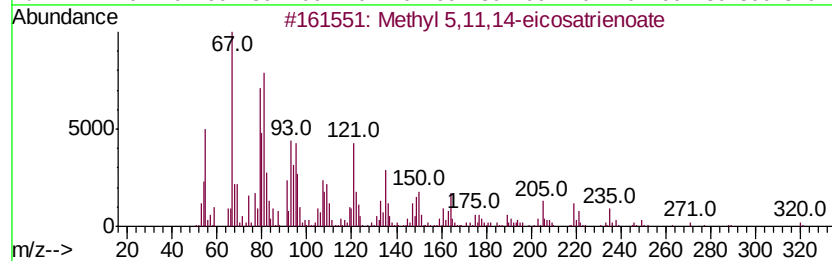
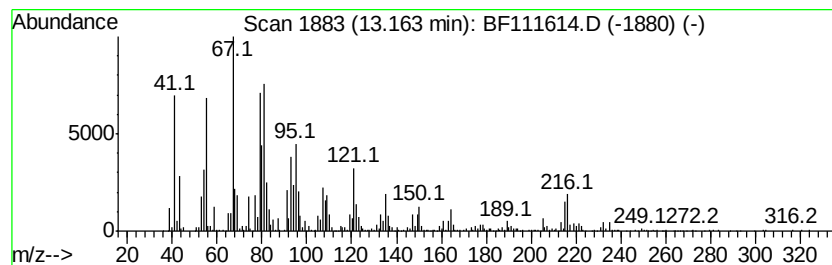
Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Methyl 5,11,14-eicosatrienoate Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD                    |     | R.T.     |              |      |
|-------|---------|--------|-------------------------------------|-----|----------|--------------|------|
| 13.16 | 8.23 ng | 675408 | Chrysene-d12                        |     | 14.05    |              |      |
| Hit#  | of      | 5      | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
| 1     |         |        | Methyl 5,11,14-eicosatrienoate      | 320 | C21H36O2 | 1000336-40-2 | 99   |
| 2     |         |        | Bicyclo[10.1.0]tridec-1-ene         | 178 | C13H22   | 054766-91-5  | 93   |
| 3     |         |        | Cis-4-methyl-exo-tricyclo[5.2.1]... | 150 | C11H18   | 1000215-29-2 | 87   |
| 4     |         |        | Cis-8-methyl-exo-tricyclo[5.2.1]... | 150 | C11H18   | 1000215-29-3 | 60   |
| 5     |         |        | Cyclooctene, 3-ethenyl-             | 136 | C10H16   | 002213-60-7  | 60   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

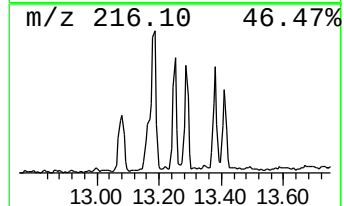
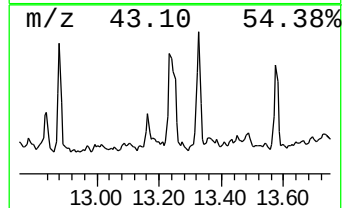
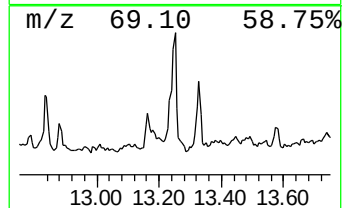
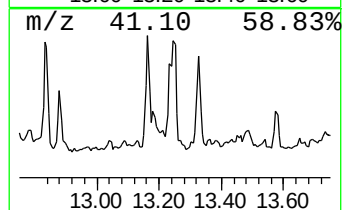
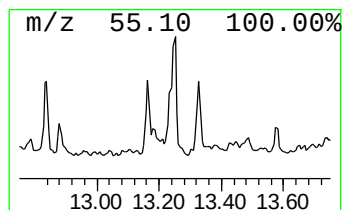
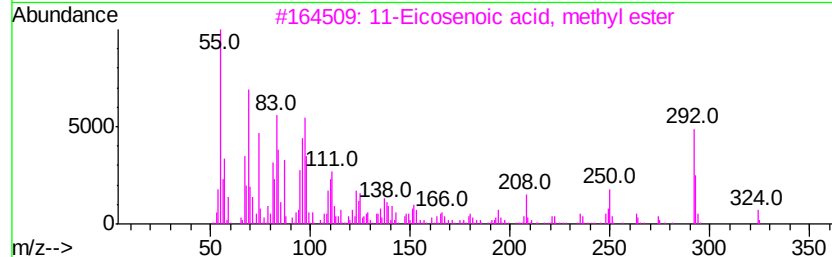
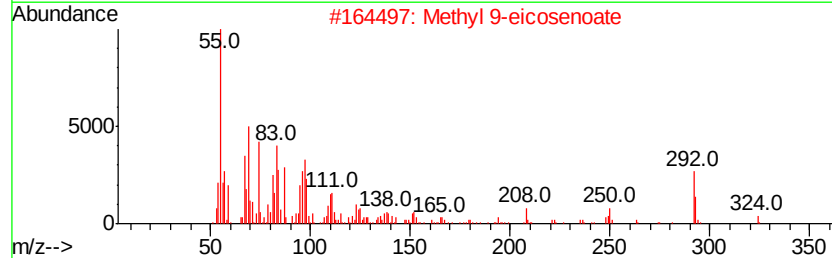
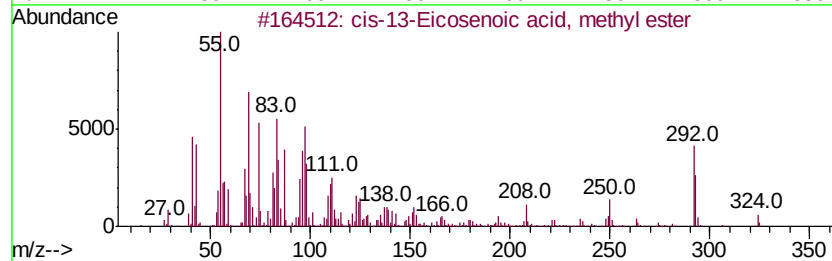
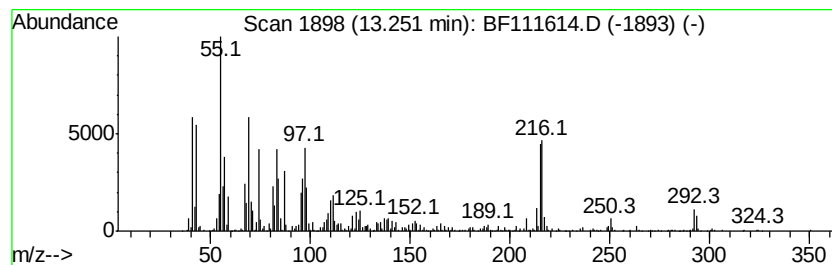
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 cis-13-Eicosenoic acid, met... Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.25 | 12.90 ng | 1058880 | Chrysene-d12     | 14.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | cis-13-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-52-1 | 99   |
| 2    |    | Methyl 9-eicosenoate                | 324 | C21H40O2 | 1000336-50-5 | 97   |
| 3    |    | 11-Eicosenoic acid, methyl ester    | 324 | C21H40O2 | 003946-08-5  | 90   |
| 4    |    | cis-11-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 1000333-63-8 | 70   |
| 5    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 55   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

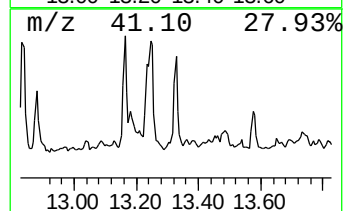
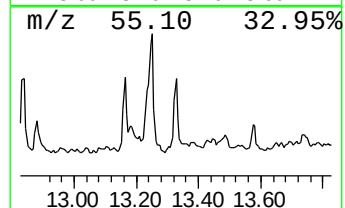
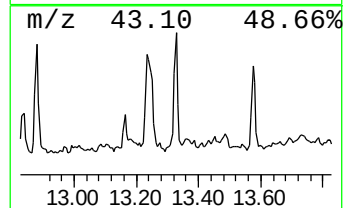
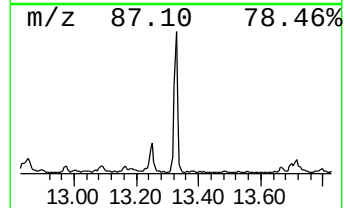
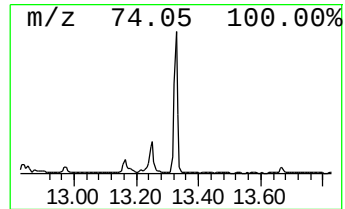
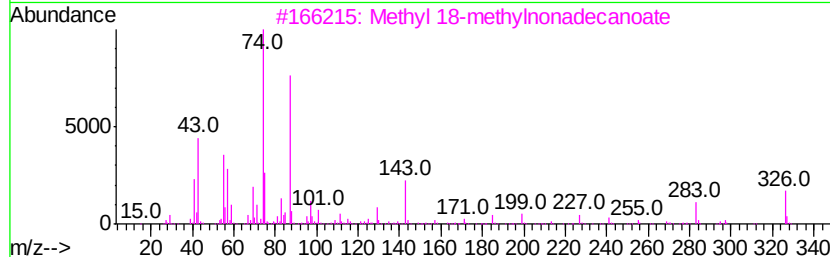
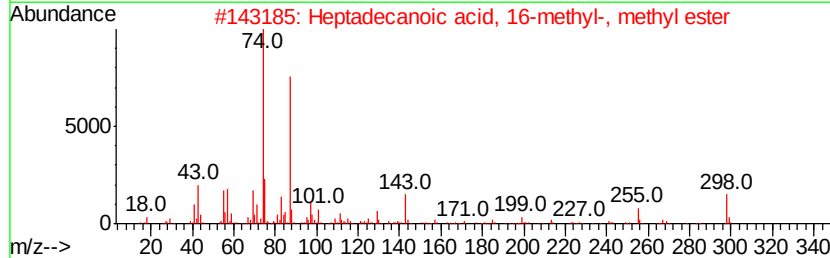
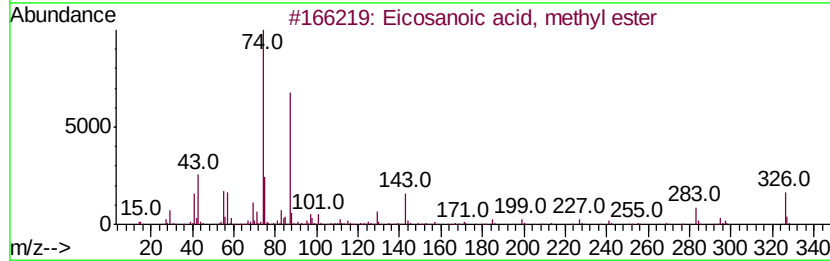
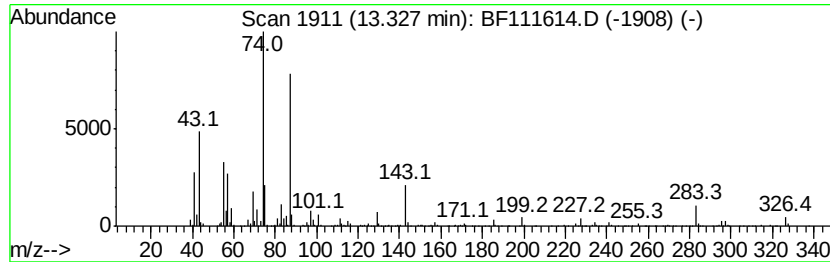
Instrument :  
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ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 17 Eicosanoic acid, methyl ester Concentration Rank 20

| R.T.    | EstConc | Area                                | Relative to ISTD |          | R.T.         |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 13.33   | 6.37 ng | 522695                              | Chrysene-d12     |          | 14.05        |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | Eicosanoic acid, methyl ester       | 326              | C21H42O2 | 001120-28-1  | 98   |
| 2       |         | Heptadecanoic acid, 16-methyl-, ... | 298              | C19H38O2 | 005129-61-3  | 93   |
| 3       |         | Methyl 18-methylnonadecanoate       | 326              | C21H42O2 | 1000352-20-6 | 87   |
| 4       |         | Nonadecanoic acid, methyl ester     | 312              | C20H40O2 | 001731-94-8  | 87   |
| 5       |         | Methyl tetradecanoate               | 242              | C15H30O2 | 000124-10-7  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
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Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

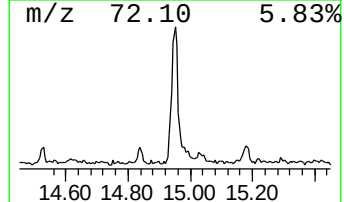
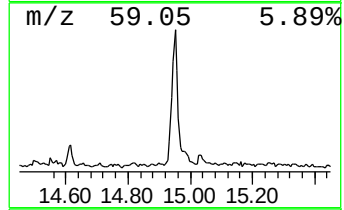
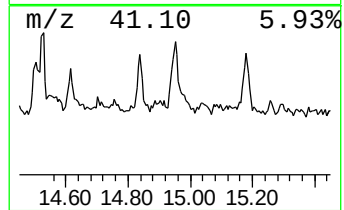
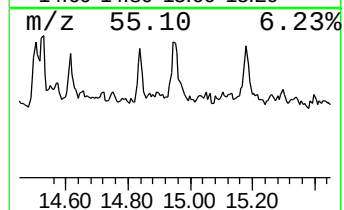
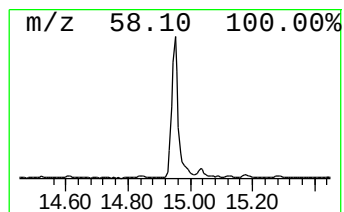
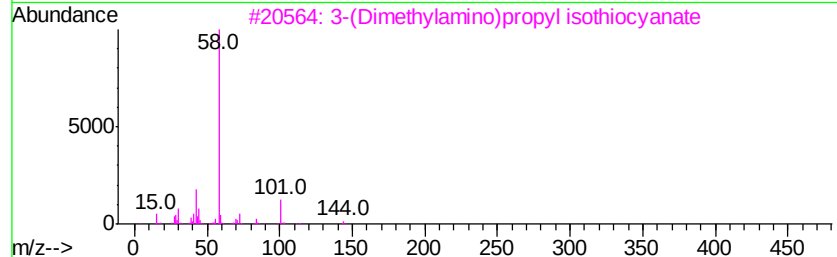
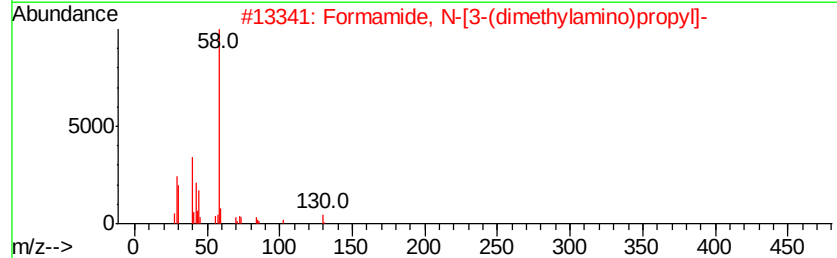
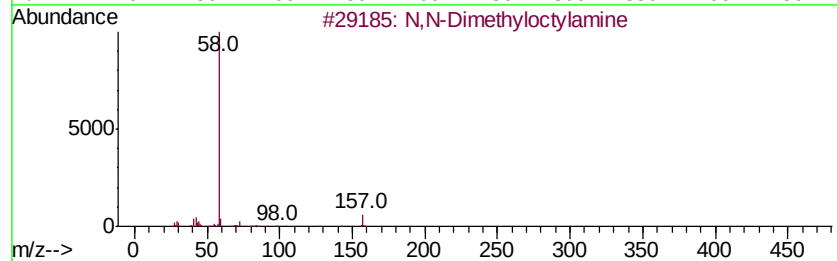
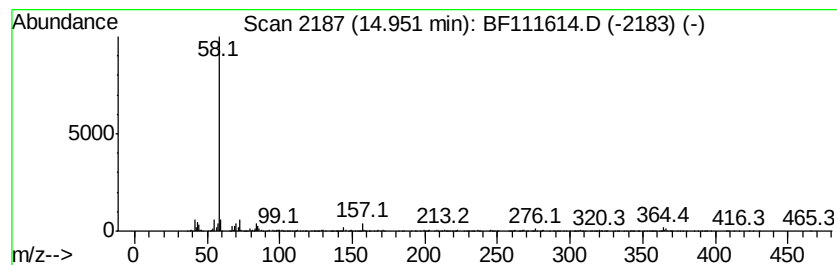
Instrument :  
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ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 19 N,N-Dimethyloctylamine Concentration Rank 4

| R.T.    | EstConc  | Area                                 | Relative to ISTD | R.T.            |
|---------|----------|--------------------------------------|------------------|-----------------|
| 14.95   | 25.07 ng | 954146                               | Perylene-d12     | 15.52           |
| Hit# of | 5        | Tentative ID                         | MW MolForm       | CAS# Qual       |
| 1       |          | N,N-Dimethyloctylamine               | 157 C10H23N      | 007378-99-6 80  |
| 2       |          | Formamide, N-[3-(dimethylamino)p...  | 130 C6H14N2O     | 005922-69-0 72  |
| 3       |          | 3-(Dimethylamino)propyl isothiocy... | 144 C6H12N2S     | 027421-70-1 72  |
| 4       |          | 1-Hexanamine, 2-ethyl-N,N-dimethyl-  | 157 C10H23N      | 028056-87-3 72  |
| 5       |          | [+]-2,4-Dihydroxy-3,3-dimethyl-N...  | 232 C11H24N2O3   | 1000253-94-2 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\  
Data File : BF111614.D  
Acq On : 20 Dec 2018 2:20  
Operator : JU/SJ  
Sample : J6199-11 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

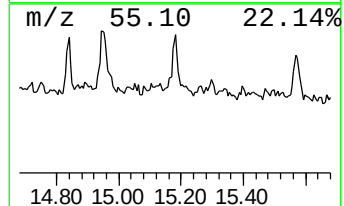
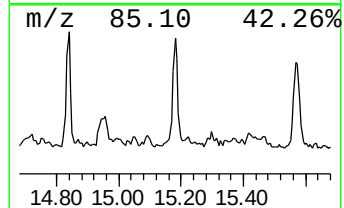
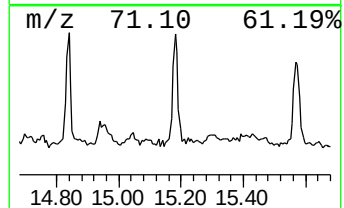
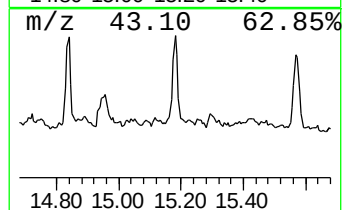
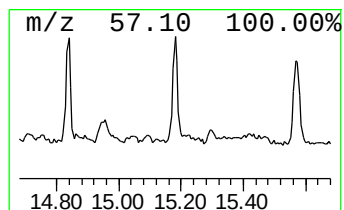
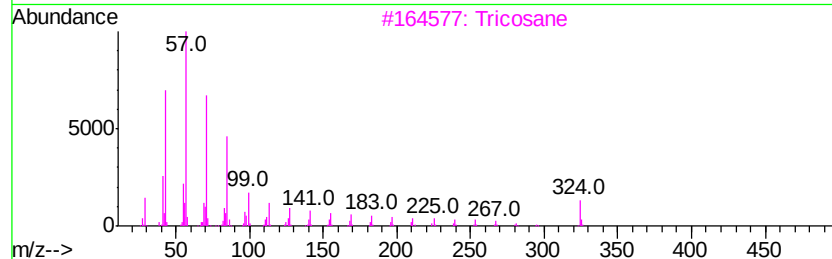
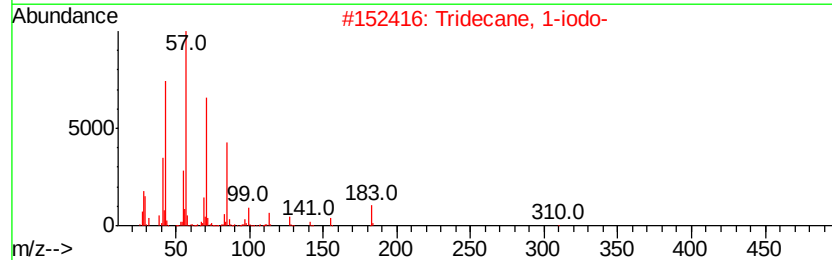
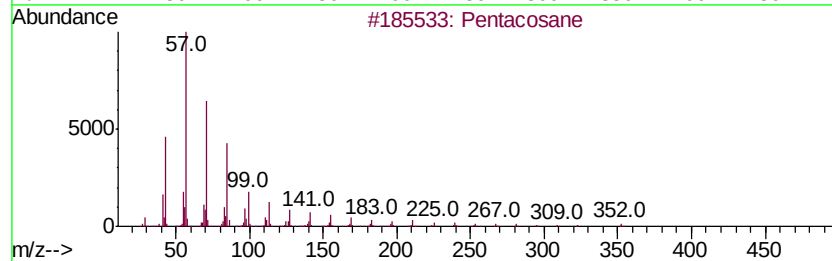
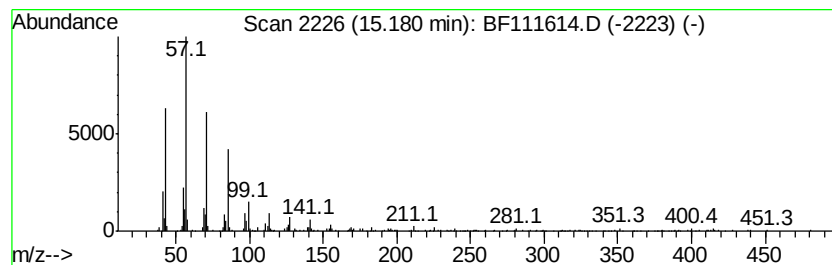
Instrument :  
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ClientSampleId :  
SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 Pentacosane Concentration Rank 9

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 15.18   | 10.25 ng               | 390262       | Perylene-d12     | 15.52     |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Pentacosane            | 352 C25H52   | 000629-99-2      | 90        |
| 2       | Tridecane, 1-iodo-     | 310 C13H27I  | 035599-77-0      | 90        |
| 3       | Tricosane              | 324 C23H48   | 000638-67-5      | 90        |
| 4       | Heneicosane            | 296 C21H44   | 000629-94-7      | 90        |
| 5       | Heneicosane, 11-decyl- | 437 C31H64   | 055320-06-4      | 90        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121918\  
 Data File : BF111614.D  
 Acq On : 20 Dec 2018 2:20  
 Operator : JU/SJ  
 Sample : J6199-11 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-121818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.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 |
| unknown6.66          | 6.66  | 18.8    | ng    | 1047310  | 1                     | 6.90  | 1115590 | 20.0 |
| Tetradecane          | 7.50  | 8.5     | ng    | 475524   | 1                     | 6.90  | 1115590 | 20.0 |
| Tridecane            | 8.77  | 6.5     | ng    | 633404   | 2                     | 8.18  | 1946390 | 20.0 |
| Pentadecane          | 9.87  | 8.3     | ng    | 576147   | 3                     | 9.93  | 1388090 | 20.0 |
| Hexadecane           | 10.37 | 9.3     | ng    | 649012   | 3                     | 9.93  | 1388090 | 20.0 |
| Octadecane           | 11.29 | 7.3     | ng    | 480961   | 4                     | 11.42 | 1325100 | 20.0 |
| Octacosane           | 11.72 | 6.5     | ng    | 430123   | 4                     | 11.42 | 1325100 | 20.0 |
| Hexadecanoic acid... | 11.82 | 118.6   | ng    | 7856440  | 4                     | 11.42 | 1325100 | 20.0 |
| Eicosane             | 12.12 | 8.6     | ng    | 570770   | 4                     | 11.42 | 1325100 | 20.0 |
| 9,12-Octadecadien... | 12.51 | 324.5   | ng    | 21498700 | 4                     | 11.42 | 1325100 | 20.0 |
| 9-Octadecenoic ac... | 12.54 | 293.3   | ng    | 19431000 | 4                     | 11.42 | 1325100 | 20.0 |
| Methyl 5,11,14-ei... | 13.16 | 8.2     | ng    | 675408   | 5                     | 14.05 | 1642230 | 20.0 |
| cis-13-Eicosenoic... | 13.25 | 12.9    | ng    | 1058880  | 5                     | 14.05 | 1642230 | 20.0 |
| Eicosanoic acid, ... | 13.33 | 6.4     | ng    | 522695   | 5                     | 14.05 | 1642230 | 20.0 |
| N,N-Dimethyloctyl... | 14.95 | 25.1    | ng    | 954146   | 6                     | 15.52 | 761252  | 20.0 |
| Pentacosane          | 15.18 | 10.3    | ng    | 390262   | 6                     | 15.52 | 761252  | 20.0 |