

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
 Data File : BF101862.D  
 Acq On : 3 Jan 2018 16:17  
 Operator : SJ/JU  
 Sample : J1019-01 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-01-010218-A

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-BF121417.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         | 5.439       | 566           | 570         | 587          | rBV2     | 48806          | 166694        | 1.09%           | 0.353%        |
| 2         | 6.463       | 740           | 744         | 754          | rBV3     | 59662          | 195293        | 1.28%           | 0.413%        |
| 3         | 6.586       | 759           | 765         | 772          | rVB2     | 244874         | 372036        | 2.43%           | 0.787%        |
| 4         | 6.769       | 793           | 796         | 807          | rBV      | 493074         | 589871        | 3.85%           | 1.248%        |
| 5         | 6.928       | 821           | 823         | 830          | rVB2     | 124862         | 156156        | 1.02%           | 0.330%        |
| 6         | 7.351       | 889           | 895         | 899          | rBV      | 367517         | 382842        | 2.50%           | 0.810%        |
| 7         | 8.016       | 1005          | 1008        | 1012         | rVV      | 563653         | 556471        | 3.63%           | 1.178%        |
| 8         | 8.051       | 1012          | 1014        | 1019         | rVV      | 654693         | 740324        | 4.84%           | 1.567%        |
| 9         | 8.092       | 1019          | 1021        | 1024         | rVV      | 229659         | 207922        | 1.36%           | 0.440%        |
| 10        | 8.328       | 1058          | 1061        | 1066         | rVB4     | 144526         | 176532        | 1.15%           | 0.374%        |
| 11        | 8.451       | 1080          | 1082        | 1085         | rVB      | 190382         | 153439        | 1.00%           | 0.325%        |
| 12        | 8.627       | 1108          | 1112        | 1116         | rBV      | 555771         | 493474        | 3.22%           | 1.044%        |
| 13        | 8.869       | 1150          | 1153        | 1157         | rBV3     | 132372         | 153092        | 1.00%           | 0.324%        |
| 14        | 9.122       | 1194          | 1196        | 1200         | rBV      | 218507         | 217590        | 1.42%           | 0.461%        |
| 15        | 9.192       | 1204          | 1208        | 1211         | rBV      | 595428         | 544228        | 3.56%           | 1.152%        |
| 16        | 9.504       | 1258          | 1261        | 1264         | rVV3     | 168325         | 215992        | 1.41%           | 0.457%        |
| 17        | 9.716       | 1295          | 1297        | 1301         | rVB      | 511864         | 444654        | 2.90%           | 0.941%        |
| 18        | 9.804       | 1309          | 1312        | 1317         | rVB2     | 622782         | 558948        | 3.65%           | 1.183%        |
| 19        | 10.039      | 1349          | 1352        | 1356         | rVV3     | 109187         | 162872        | 1.06%           | 0.345%        |
| 20        | 10.216      | 1377          | 1382        | 1385         | rBV      | 569903         | 466843        | 3.05%           | 0.988%        |
| 21        | 10.433      | 1414          | 1419        | 1422         | rBV      | 183935         | 244944        | 1.60%           | 0.518%        |
| 22        | 10.686      | 1459          | 1462        | 1467         | rBV      | 460043         | 498597        | 3.26%           | 1.055%        |
| 23        | 11.139      | 1535          | 1539        | 1541         | rBV      | 397940         | 369220        | 2.41%           | 0.781%        |
| 24        | 11.298      | 1563          | 1566        | 1568         | rBV      | 783439         | 657010        | 4.29%           | 1.391%        |
| 25        | 11.321      | 1568          | 1570        | 1577         | rVB      | 676667         | 640525        | 4.18%           | 1.356%        |
| 26        | 11.380      | 1577          | 1580        | 1583         | rBV      | 166685         | 153681        | 1.00%           | 0.325%        |
| 27        | 11.563      | 1608          | 1611        | 1614         | rBV      | 365599         | 288107        | 1.88%           | 0.610%        |
| 28        | 11.680      | 1625          | 1631        | 1634         | rVB      | 4830820        | 5787552       | 37.81%          | 12.249%       |
| 29        | 11.798      | 1648          | 1651        | 1653         | rBV      | 157453         | 163070        | 1.07%           | 0.345%        |
| 30        | 11.833      | 1655          | 1657        | 1660         | rVV      | 227711         | 213761        | 1.40%           | 0.452%        |
| 31        | 11.916      | 1668          | 1671        | 1673         | rVV2     | 231896         | 257622        | 1.68%           | 0.545%        |
| 32        | 11.968      | 1678          | 1680        | 1682         | rVV      | 315755         | 250744        | 1.64%           | 0.531%        |
| 33        | 12.392      | 1741          | 1752        | 1753         | rBV4     | 5209779        | 15308705      | 100.00%         | 32.400%       |
| 34        | 12.439      | 1758          | 1760        | 1761         | rVV2     | 211286         | 174774        | 1.14%           | 0.370%        |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

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-BF121417.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.468 | 1761 | 1765 | 1768 | rVV  | 3707150 | 3352352 | 21.90% | 7.095% |
| 36 | 12.521 | 1768 | 1774 | 1782 | rVV2 | 1421728 | 2210518 | 14.44% | 4.678% |
| 37 | 12.698 | 1799 | 1804 | 1807 | rBV3 | 255271  | 284639  | 1.86%  | 0.602% |
| 38 | 12.733 | 1807 | 1810 | 1811 | rVV  | 273992  | 260941  | 1.70%  | 0.552% |
| 39 | 12.757 | 1811 | 1814 | 1820 | rVB  | 974527  | 1151992 | 7.53%  | 2.438% |
| 40 | 12.880 | 1832 | 1835 | 1837 | rVB  | 287667  | 204801  | 1.34%  | 0.433% |
| 41 | 13.021 | 1856 | 1859 | 1861 | rBV2 | 151773  | 163023  | 1.06%  | 0.345% |
| 42 | 13.062 | 1861 | 1866 | 1868 | rBV4 | 185401  | 304991  | 1.99%  | 0.646% |
| 43 | 13.086 | 1868 | 1870 | 1872 | rVV  | 215901  | 193169  | 1.26%  | 0.409% |
| 44 | 13.186 | 1883 | 1887 | 1893 | rBV2 | 645193  | 767034  | 5.01%  | 1.623% |
| 45 | 13.615 | 1957 | 1960 | 1964 | rVB2 | 141361  | 189736  | 1.24%  | 0.402% |
| 46 | 13.721 | 1973 | 1978 | 1981 | rVB3 | 138382  | 166346  | 1.09%  | 0.352% |
| 47 | 13.851 | 1997 | 2000 | 2003 | rBV  | 542055  | 450934  | 2.95%  | 0.954% |
| 48 | 13.951 | 2012 | 2017 | 2020 | rVV2 | 1015814 | 1441098 | 9.41%  | 3.050% |
| 49 | 13.980 | 2020 | 2022 | 2028 | rVB  | 531901  | 487825  | 3.19%  | 1.032% |
| 50 | 14.062 | 2033 | 2036 | 2040 | rVB2 | 127095  | 155093  | 1.01%  | 0.328% |
| 51 | 14.374 | 2085 | 2089 | 2093 | rVB3 | 267189  | 333808  | 2.18%  | 0.706% |
| 52 | 14.468 | 2102 | 2105 | 2111 | rVB3 | 252580  | 247297  | 1.62%  | 0.523% |
| 53 | 14.798 | 2156 | 2161 | 2166 | rBV  | 629958  | 859276  | 5.61%  | 1.819% |
| 54 | 14.998 | 2191 | 2195 | 2198 | rBV  | 478057  | 673868  | 4.40%  | 1.426% |
| 55 | 15.298 | 2243 | 2246 | 2250 | rVB  | 182818  | 211854  | 1.38%  | 0.448% |
| 56 | 15.362 | 2253 | 2257 | 2263 | rVB2 | 363248  | 452528  | 2.96%  | 0.958% |
| 57 | 15.421 | 2263 | 2267 | 2271 | rBV  | 425675  | 555890  | 3.63%  | 1.177% |
| 58 | 15.768 | 2324 | 2326 | 2330 | rVB2 | 141121  | 166113  | 1.09%  | 0.352% |

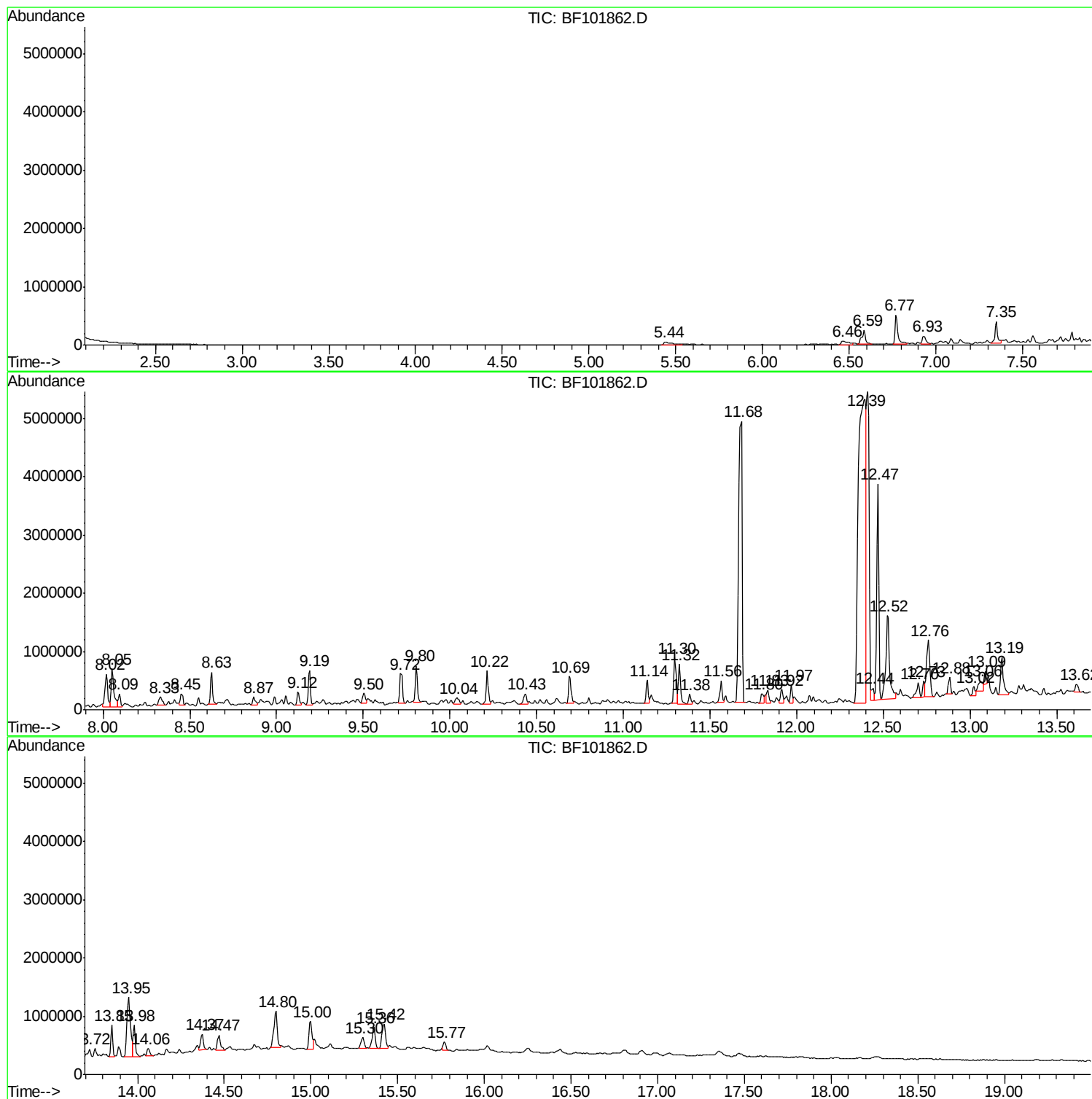
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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

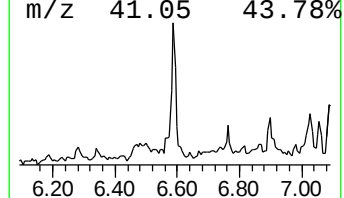
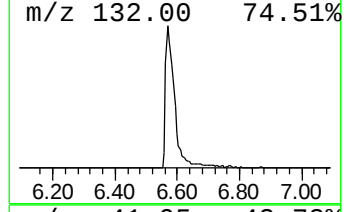
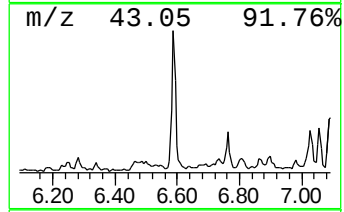
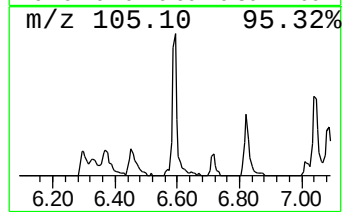
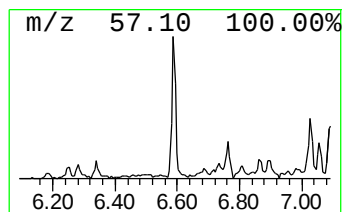
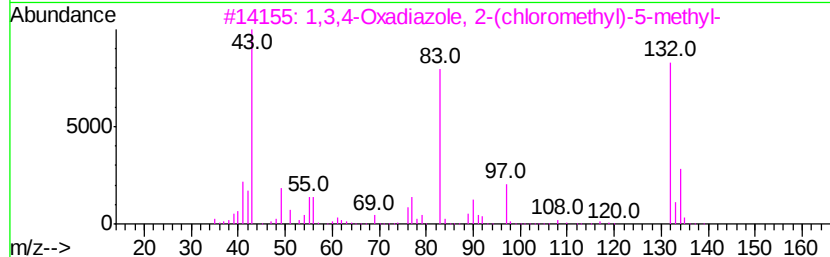
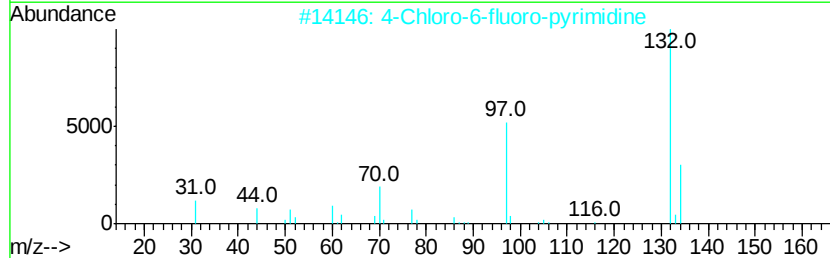
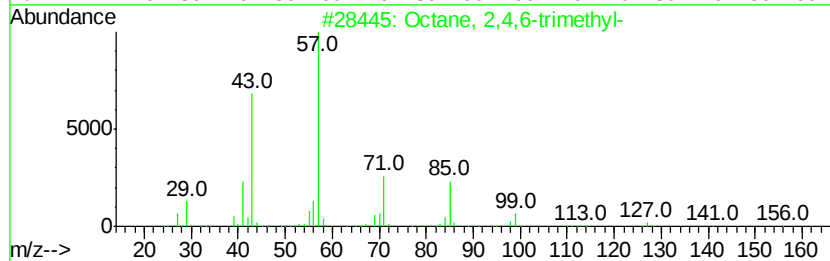
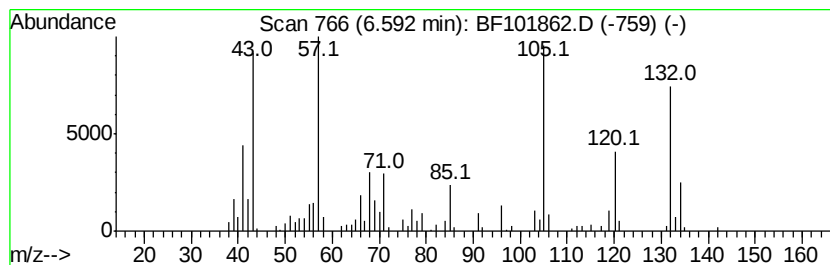
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.59 Concentration Rank 10

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.59 | 12.61 ng | 372036 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Octane, 2,4,6-trimethyl-            | 156 | C11H24    | 062016-37-9  | 10   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 10   |
| 3    |    | 1,3,4-Oxadiazole, 2-(chloromethyl)- | 132 | C4H5ClN2O | 1000338-17-2 | 10   |
| 4    |    | Decane, 2,9-dimethyl-               | 170 | C12H26    | 001002-17-1  | 10   |
| 5    |    | Pentane, 3-ethyl-2-methyl-          | 114 | C8H18     | 000609-26-7  | 10   |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

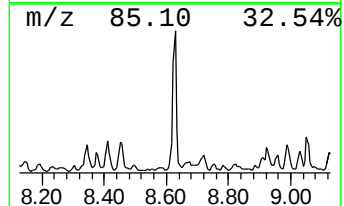
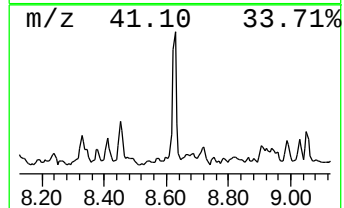
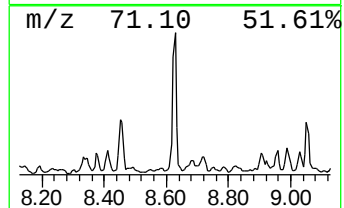
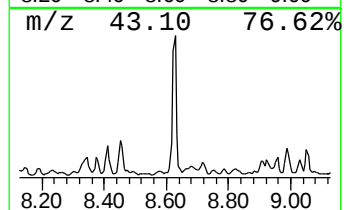
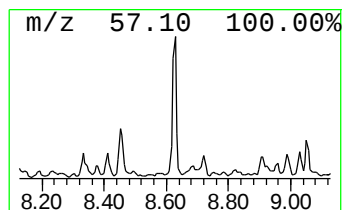
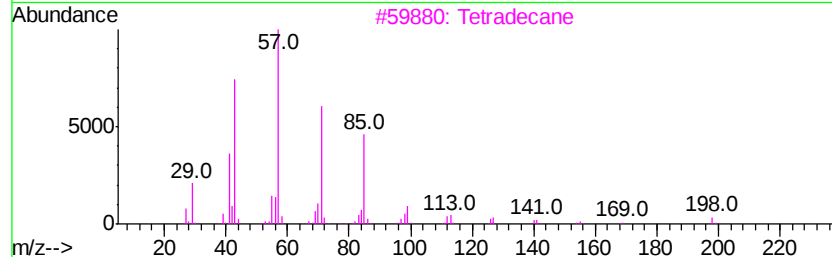
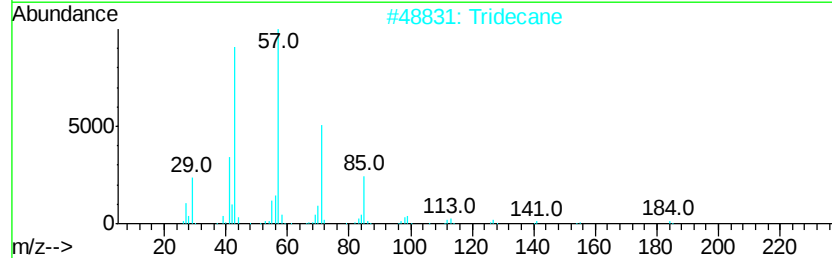
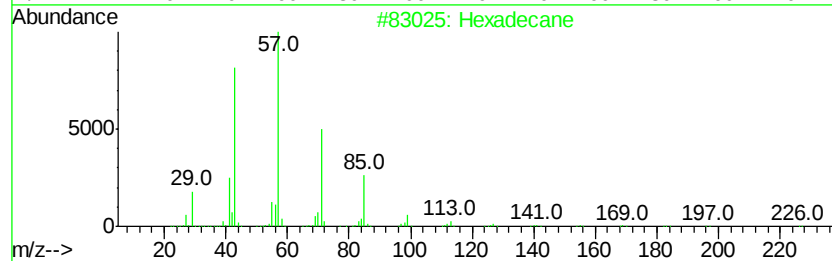
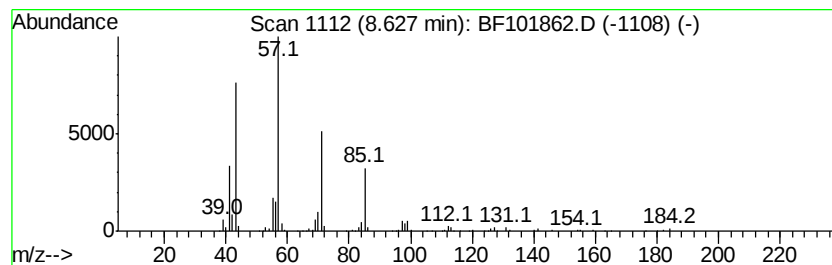
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Hexadecane Concentration Rank 9

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 8.63 | 13.33 ng | 493474 | Naphthalene-d8   | 8.05 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 91   |
| 2       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 87   |
| 3       | Tetradecane              |              | 198 | C14H30  | 000629-59-4 | 86   |
| 4       | Undecane, 6-ethyl-       |              | 184 | C13H28  | 017312-60-6 | 80   |
| 5       | Decane, 2,3,5-trimethyl- |              | 184 | C13H28  | 062238-11-3 | 78   |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

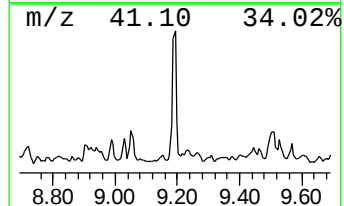
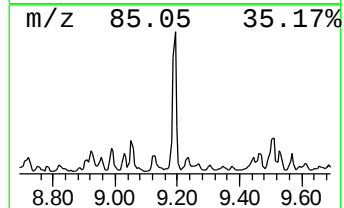
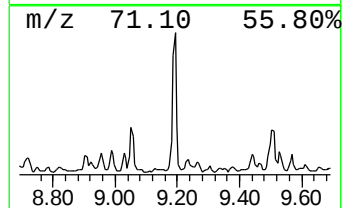
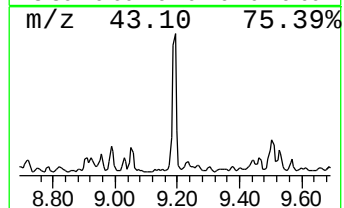
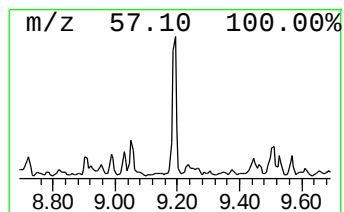
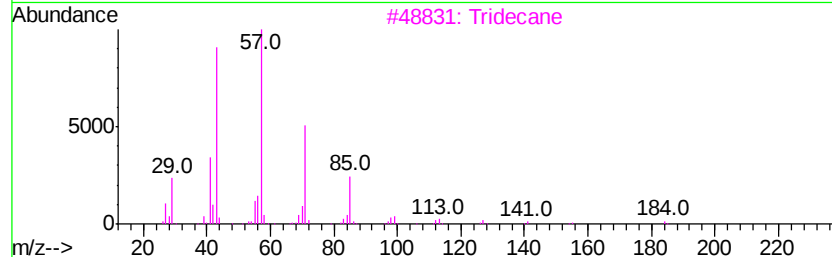
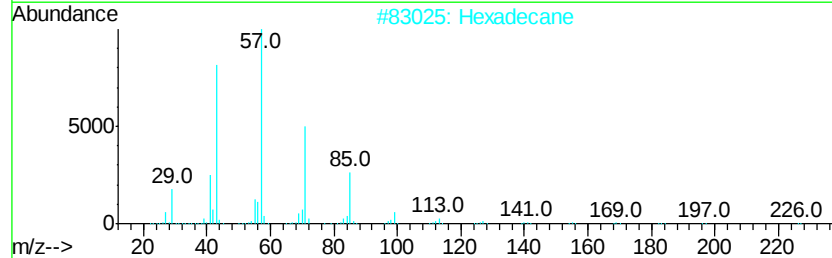
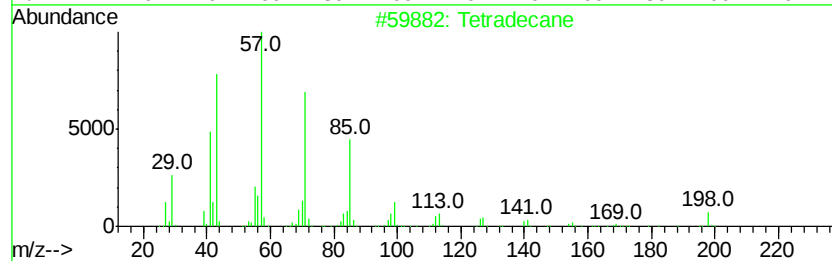
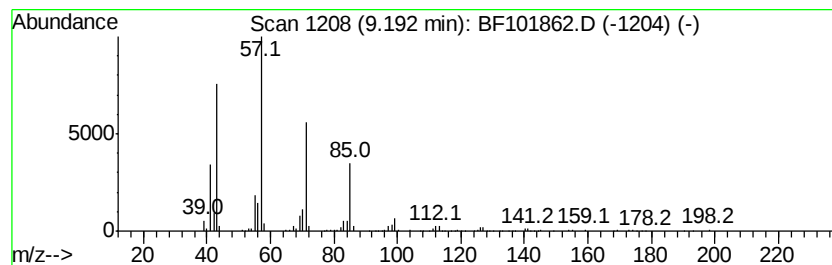
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Tetradecane Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.19 | 19.47 ng | 544228 | Acenaphthene-d10 | 9.80 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Tetradecane         | 198 | C14H30   | 000629-59-4 | 95   |
| 2       |   | Hexadecane          | 226 | C16H34   | 000544-76-3 | 91   |
| 3       |   | Tridecane           | 184 | C13H28   | 000629-50-5 | 78   |
| 4       |   | Decane, 3-bromo-    | 220 | C10H21Br | 030571-71-2 | 72   |
| 5       |   | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 68   |



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ALS Vial : 9 Sample Multiplier: 1

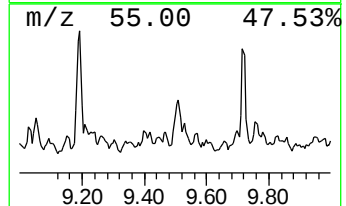
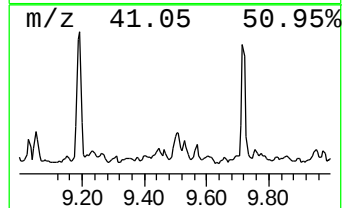
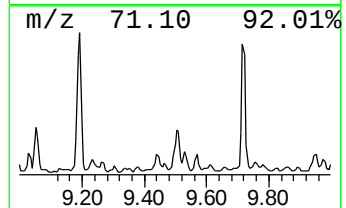
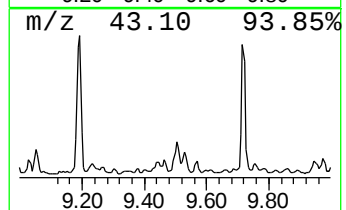
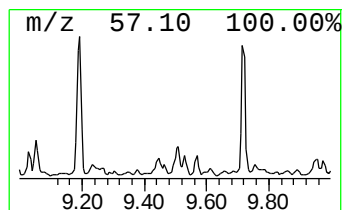
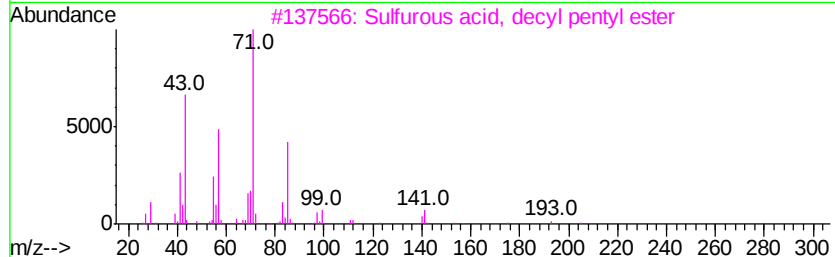
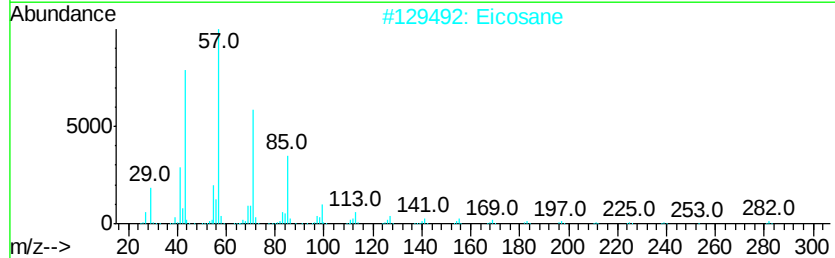
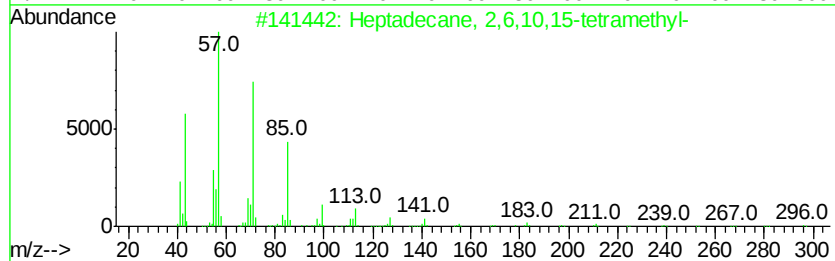
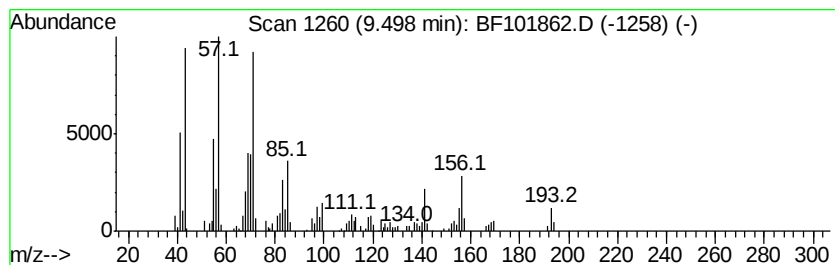
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ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.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 Heptadecane, 2,6,10,15-tetr... Concentration Rank 16

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 9.50      | 7.73 ng                             | 215992 | Acenaphthene-d10 | 9.80         |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Heptadecane, 2,6,10,15-tetramethyl- | 296    | C21H44           | 054833-48-6  | 72   |
| 2         | Eicosane                            | 282    | C20H42           | 000112-95-8  | 64   |
| 3         | Sulfurous acid, decyl pentyl ester  | 292    | C15H32O3S        | 1000309-14-3 | 64   |
| 4         | Hexadecane                          | 226    | C16H34           | 000544-76-3  | 59   |
| 5         | Sulfurous acid, 2-ethylhexyl oct... | 446    | C26H54O3S        | 1000309-20-1 | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

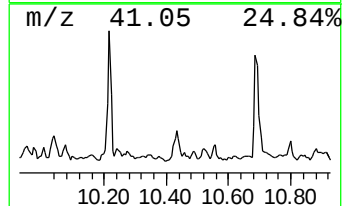
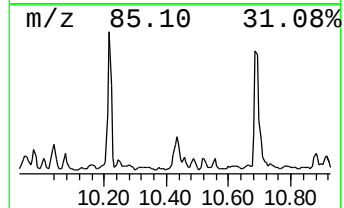
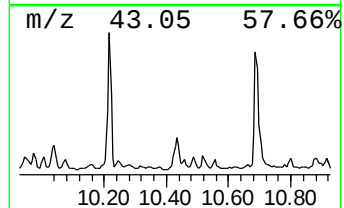
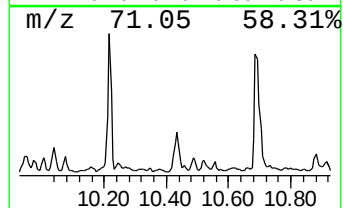
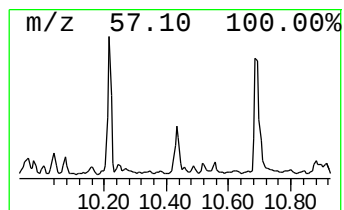
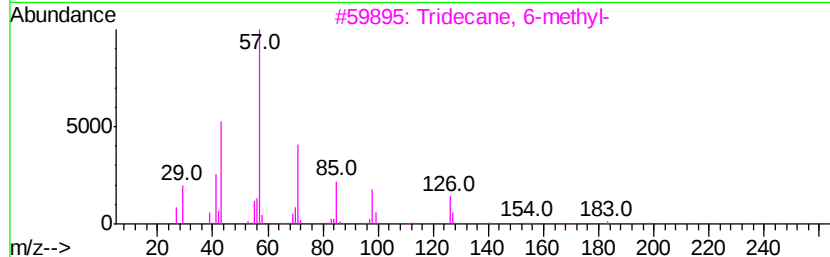
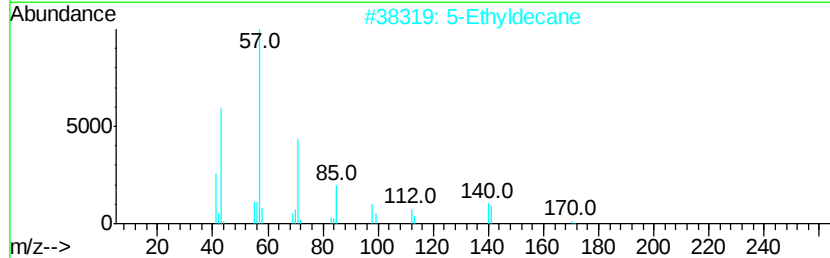
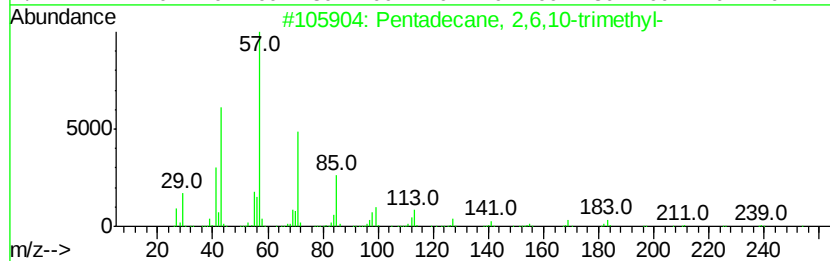
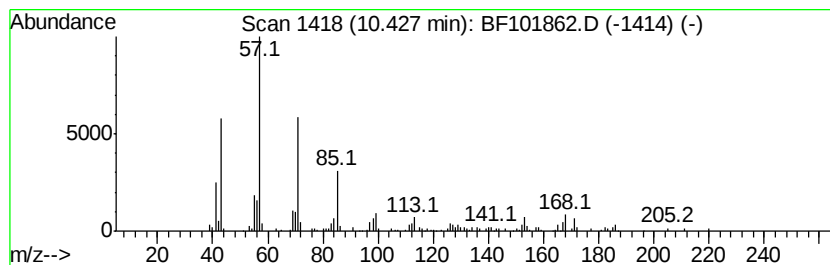
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Pentadecane, 2,6,10-trimethyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.43 | 8.76 ng | 244944 | Acenaphthene-d10 | 9.80 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38  | 003892-00-0 | 90   |
| 2    |    | 5-Ethyldecane                  | 170 | C12H26  | 017302-36-2 | 87   |
| 3    |    | Tridecane, 6-methyl-           | 198 | C14H30  | 013287-21-3 | 72   |
| 4    |    | Eicosane                       | 282 | C20H42  | 000112-95-8 | 68   |
| 5    |    | Octane, 3,5-dimethyl-          | 142 | C10H22  | 015869-93-9 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

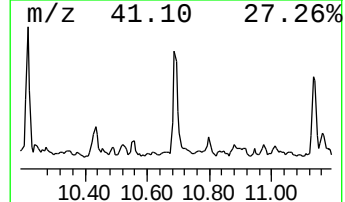
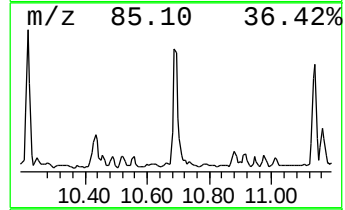
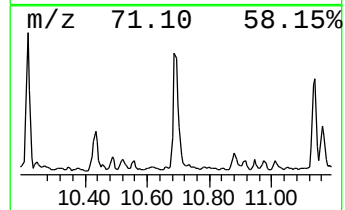
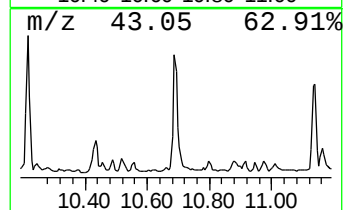
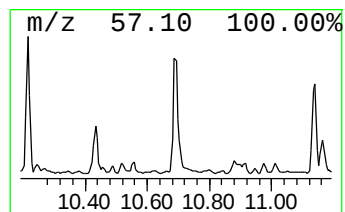
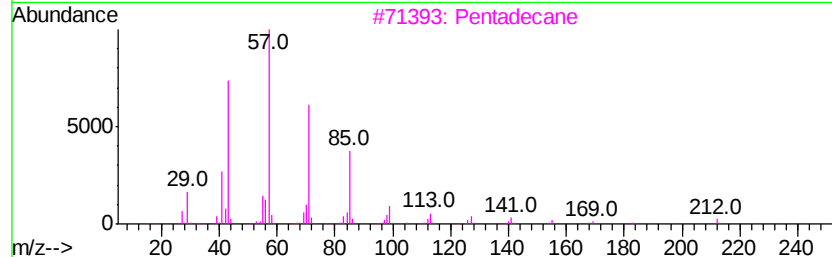
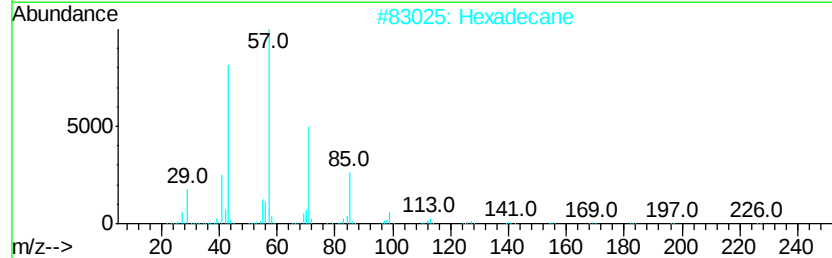
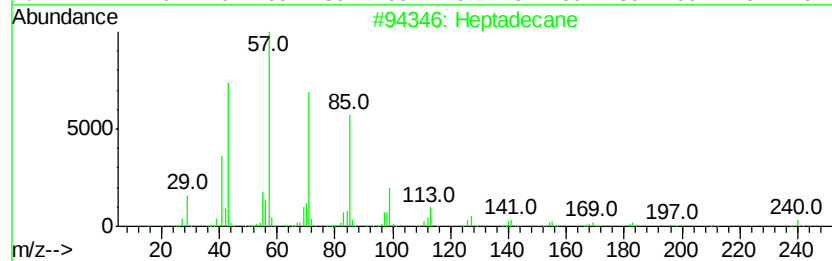
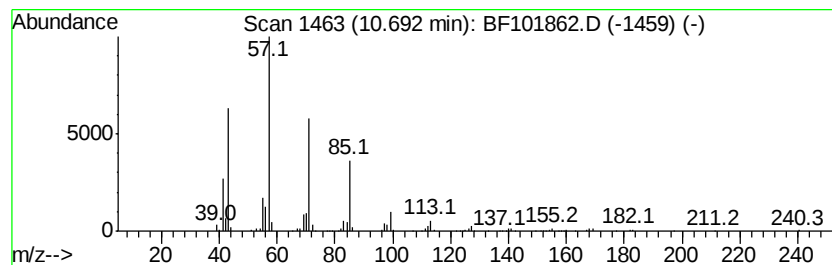
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ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Heptadecane Concentration Rank 8

| R.T.    | EstConc                      | Area         | Relative to ISTD |         | R.T.        |      |
|---------|------------------------------|--------------|------------------|---------|-------------|------|
| 10.69   | 15.18 ng                     | 498597       | Phenanthrene-d10 |         | 11.30       |      |
| Hit# of | 5                            | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Heptadecane                  |              | 240              | C17H36  | 000629-78-7 | 97   |
| 2       | Hexadecane                   |              | 226              | C16H34  | 000544-76-3 | 90   |
| 3       | Pentadecane                  |              | 212              | C15H32  | 000629-62-9 | 90   |
| 4       | Heneicosane                  |              | 296              | C21H44  | 000629-94-7 | 83   |
| 5       | Dodecane, 2-methyl-6-propyl- |              | 226              | C16H34  | 055045-08-4 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

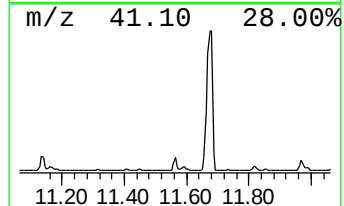
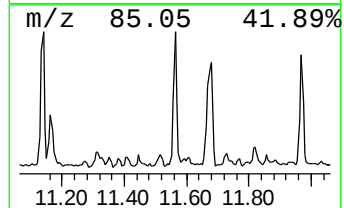
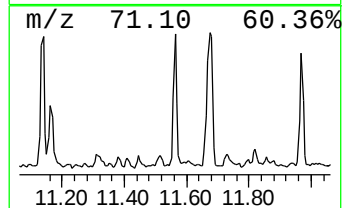
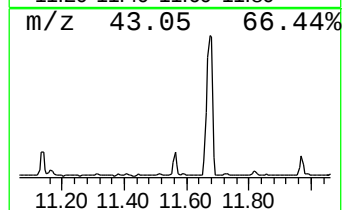
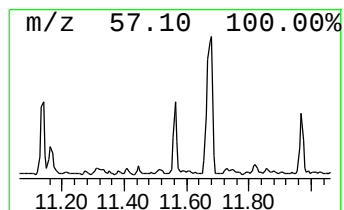
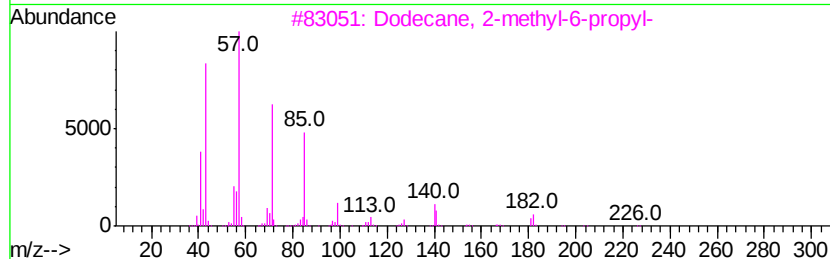
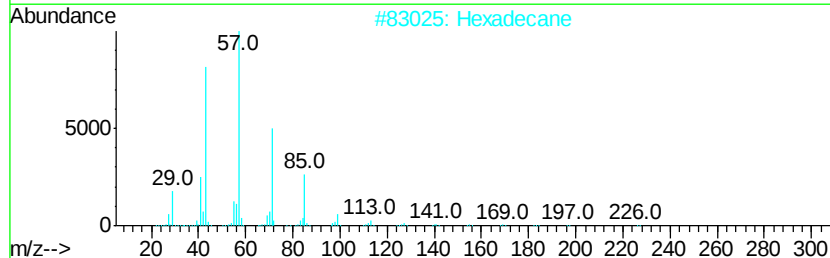
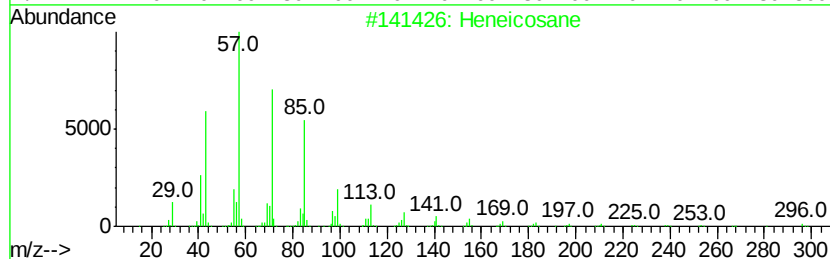
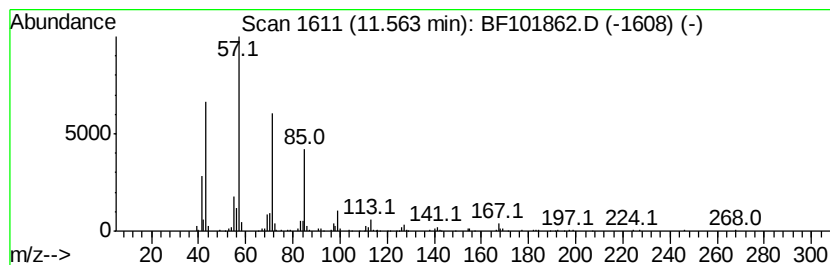
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Heneicosane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.56 | 8.77 ng | 288107 | Phenanthrene-d10 | 11.30 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 90   |
| 3    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 86   |
| 4    |    | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 86   |
| 5    |    | Dodecane, 1-iodo-            | 296 | C12H25I | 004292-19-7 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

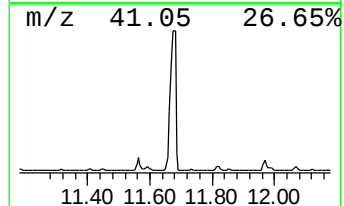
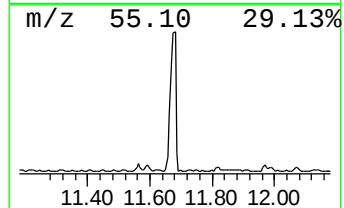
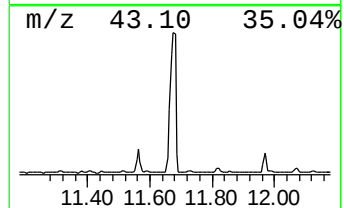
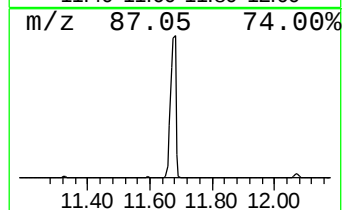
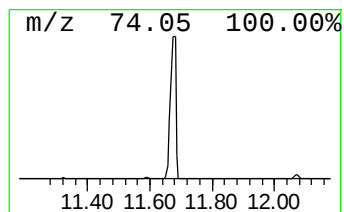
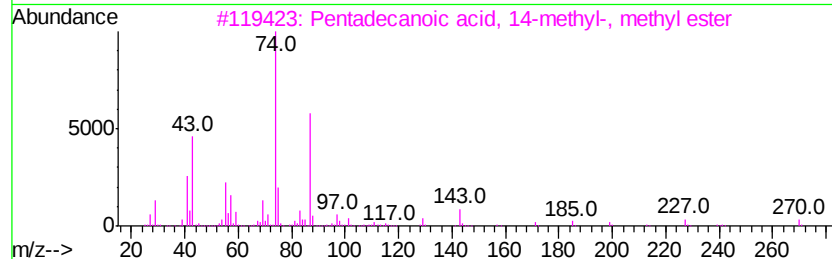
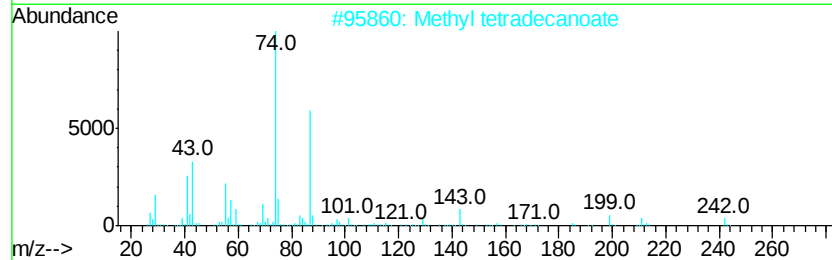
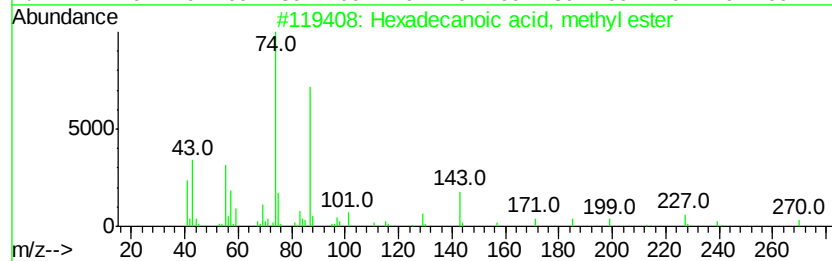
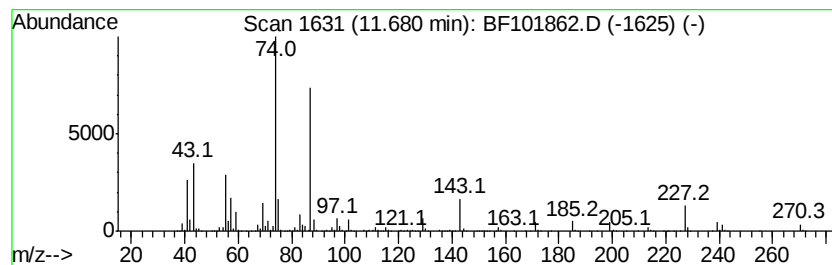
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Hexadecanoic acid, methyl e... Concentration Rank 2

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 11.68 | 176.18 ng | 5787550 | Phenanthrene-d10 | 11.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 91   |
| 3    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 91   |
| 4    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 90   |
| 5    |    | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

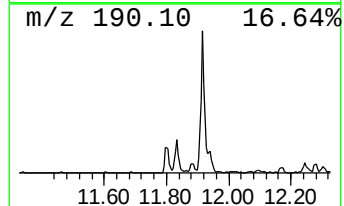
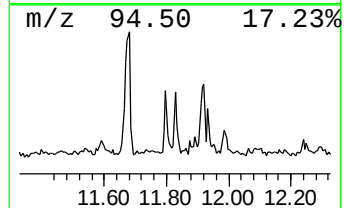
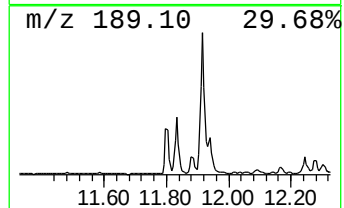
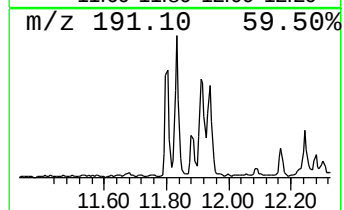
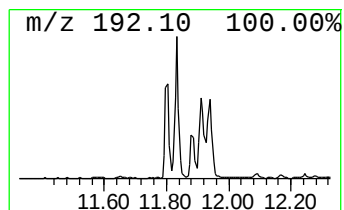
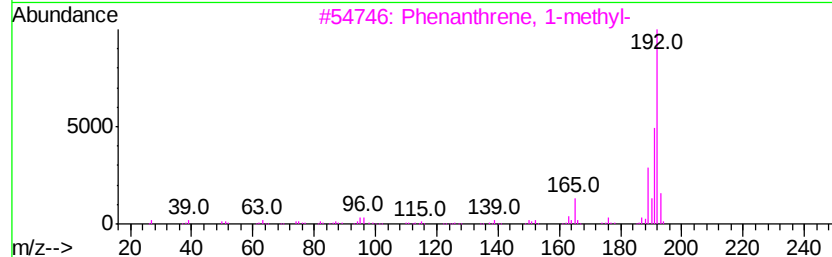
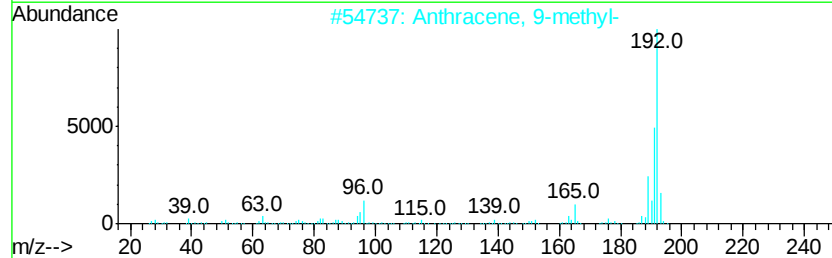
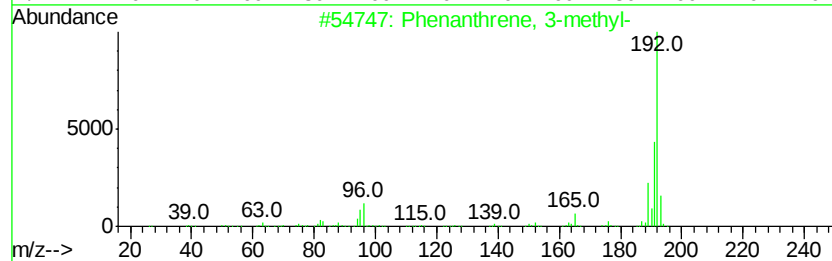
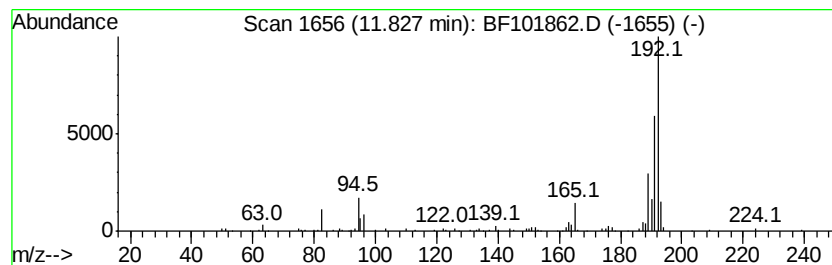
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Phenanthrene, 3-methyl- Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.83 | 6.51 ng | 213761 | Phenanthrene-d10 | 11.30 |

| Hit# | of | 5 | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 3-methyl-                 | 192 | C15H12  | 000832-71-3 | 91   |
| 2    |    |   | Anthracene, 9-methyl-                   | 192 | C15H12  | 000779-02-2 | 91   |
| 3    |    |   | Phenanthrene, 1-methyl-                 | 192 | C15H12  | 000832-69-9 | 91   |
| 4    |    |   | 1H-Cyclopropa[1,1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 90   |
| 5    |    |   | Phenanthrene, 2-methyl-                 | 192 | C15H12  | 002531-84-2 | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

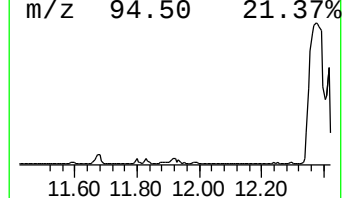
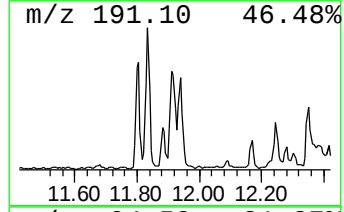
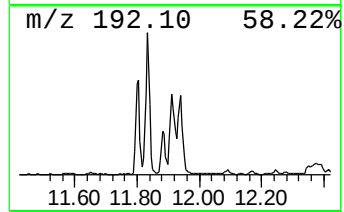
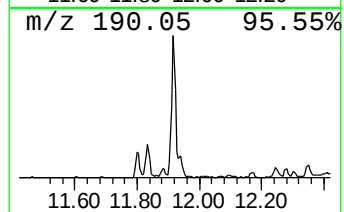
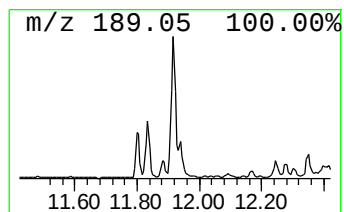
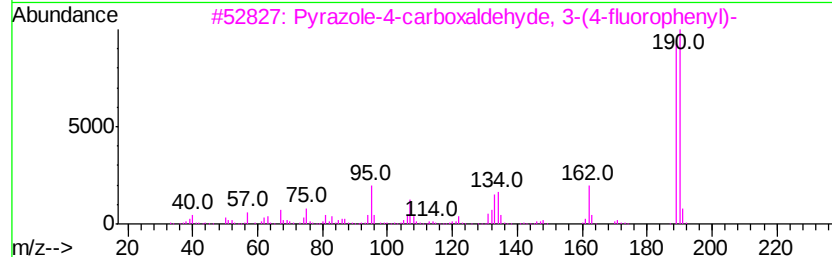
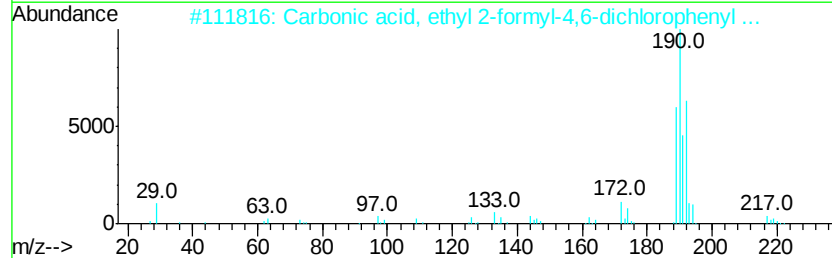
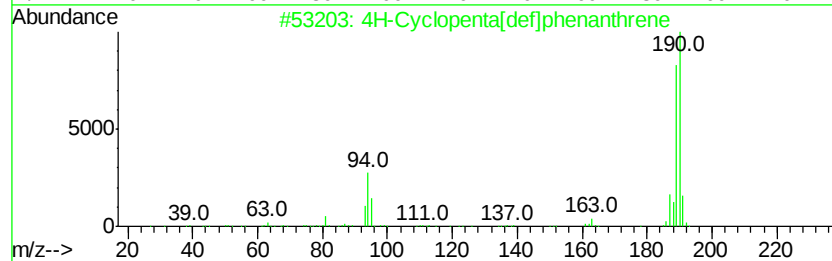
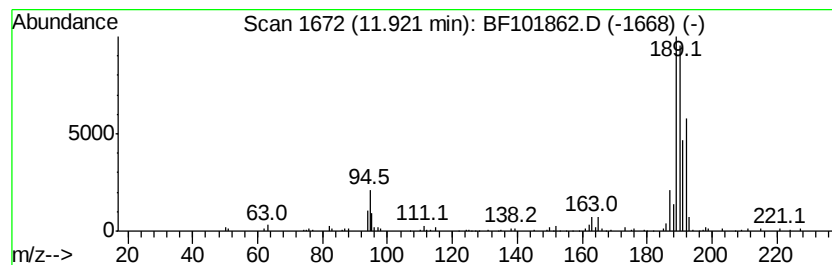
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.92 | 7.84 ng | 257622 | Phenanthrene-d10 | 11.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 70   |
| 2    |    | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 50   |
| 3    |    | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O  | 306936-57-2  | 49   |
| 4    |    | 3,5-Dichlorobenzoic acid            | 190 | C7H4Cl2O2  | 000051-36-5  | 27   |
| 5    |    | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12     | 000256-81-5  | 20   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

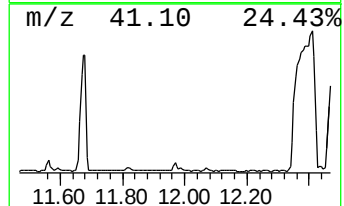
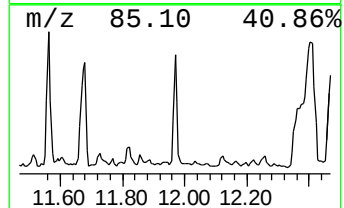
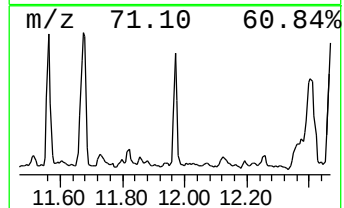
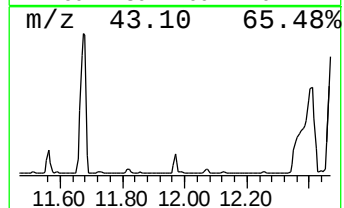
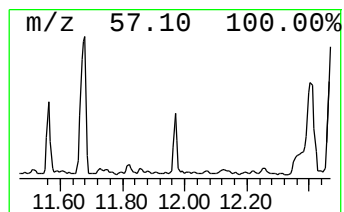
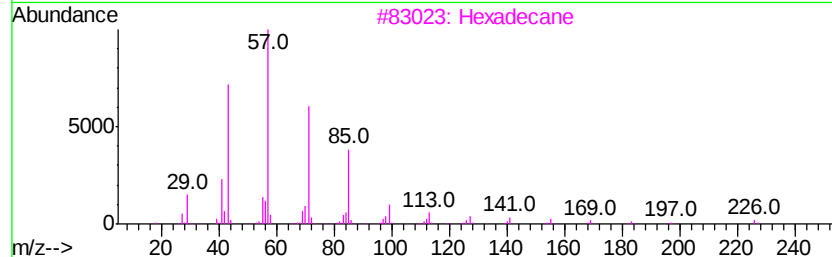
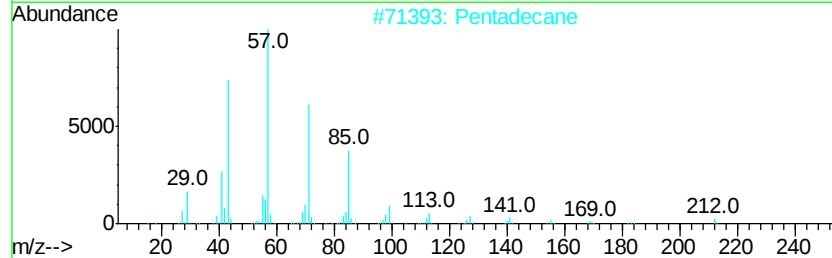
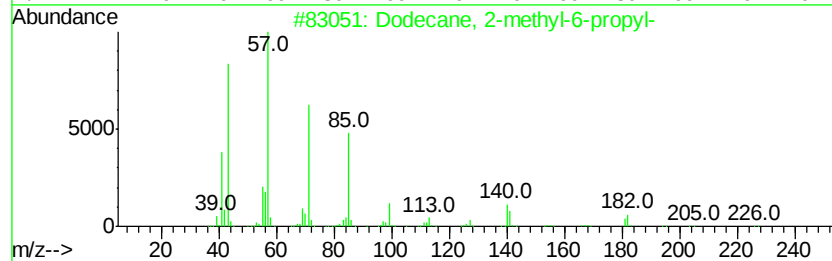
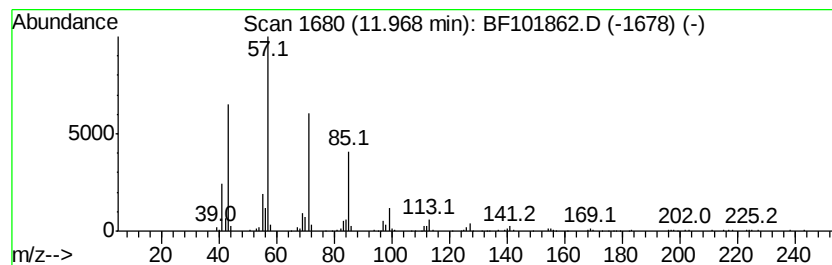
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Dodecane, 2-methyl-6-propyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.97 | 7.63 ng | 250744 | Phenanthrene-d10 | 11.30 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 90   |
| 2    |    | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 87   |
| 3    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 86   |
| 4    |    | Heptacosane                  | 380 | C27H56  | 000593-49-7 | 86   |
| 5    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF01862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

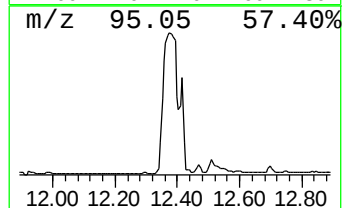
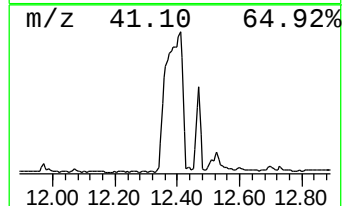
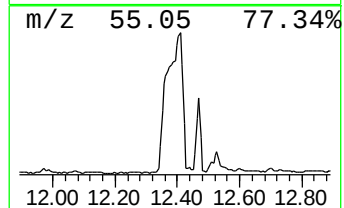
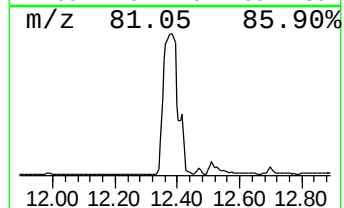
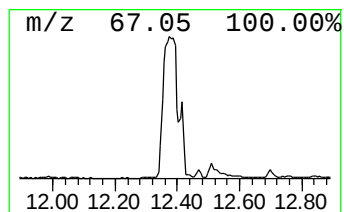
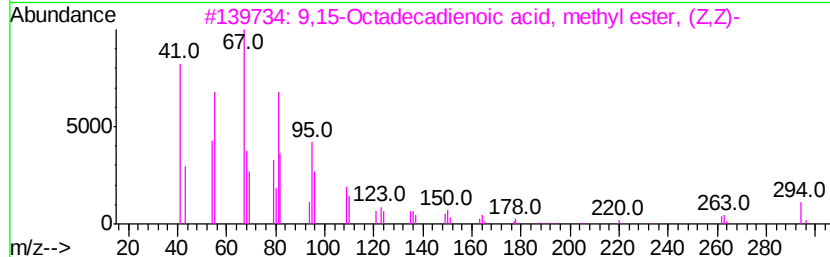
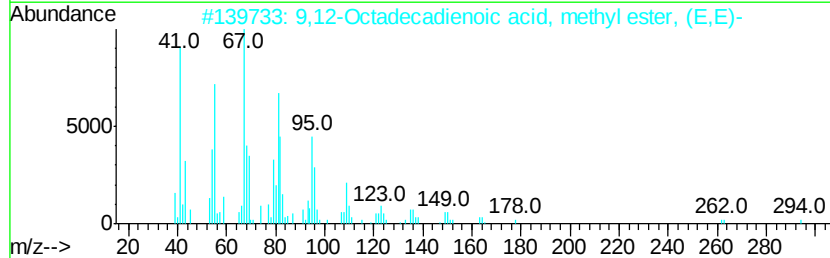
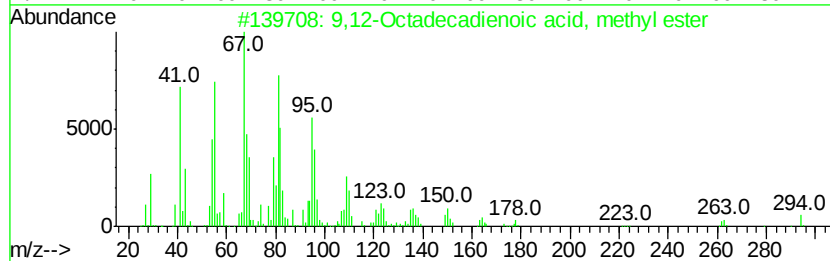
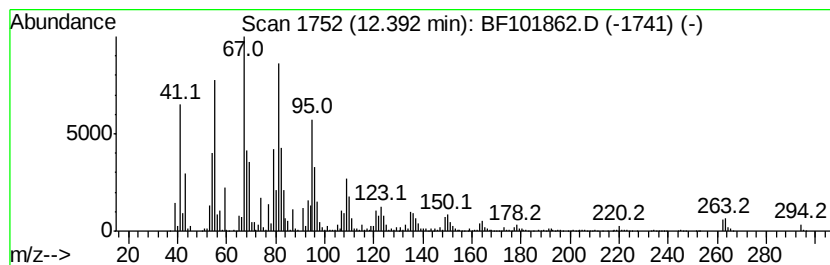
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.39 | 466.01 ng | 15308700 | Phenanthrene-d10 | 11.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99   |
| 2    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 3    |    | 9,15-Octadecadienoic acid, methv... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 4    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |
| 5    |    | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 98   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

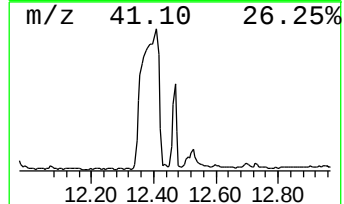
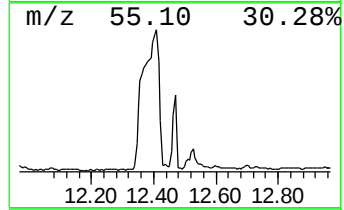
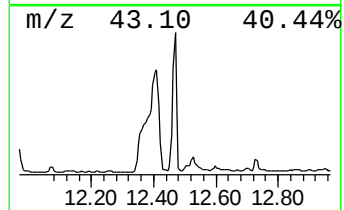
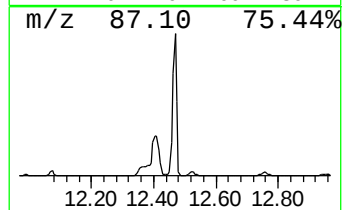
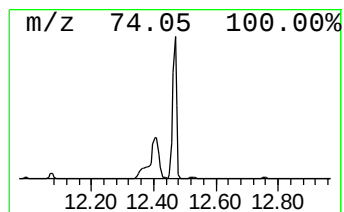
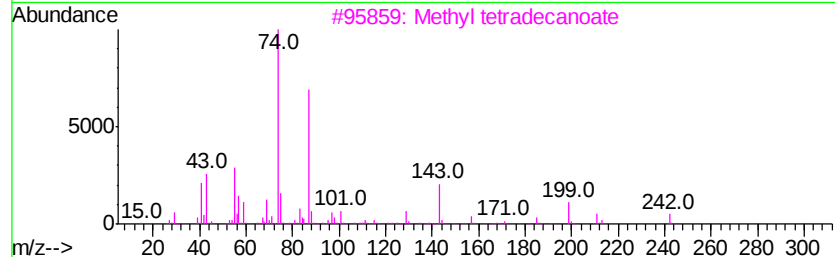
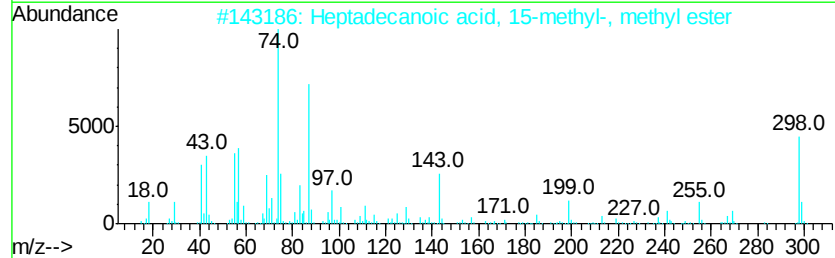
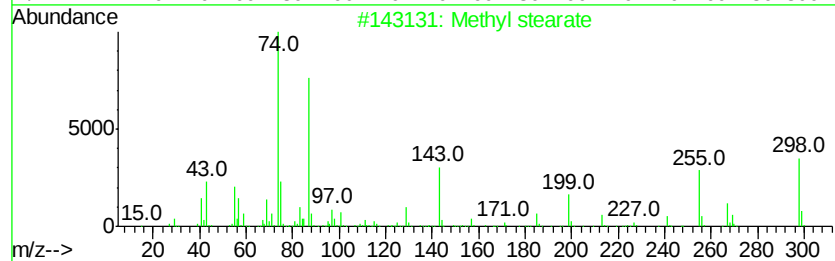
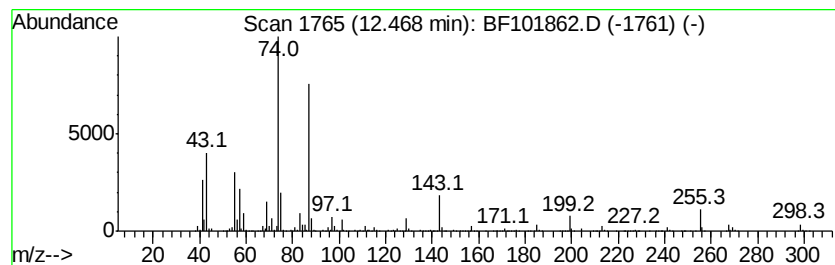
Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 16 Methyl stearate Concentration Rank 3

| R.T.    | EstConc   | Area                                | Relative to ISTD | R.T.           |
|---------|-----------|-------------------------------------|------------------|----------------|
| 12.47   | 102.05 ng | 3352350                             | Phenanthrene-d10 | 11.30          |
| Hit# of | 5         | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |           | Methyl stearate                     | 298 C19H38O2     | 000112-61-8 97 |
| 2       |           | Heptadecanoic acid, 15-methyl-, ... | 298 C19H38O2     | 054833-55-5 93 |
| 3       |           | Methyl tetradecanoate               | 242 C15H30O2     | 000124-10-7 93 |
| 4       |           | Heptadecanoic acid, 16-methyl-, ... | 298 C19H38O2     | 005129-61-3 91 |
| 5       |           | Heptadecanoic acid, methyl ester    | 284 C18H36O2     | 001731-92-6 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

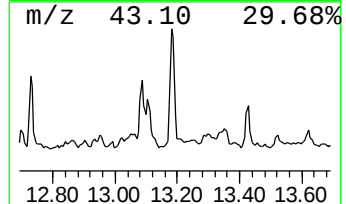
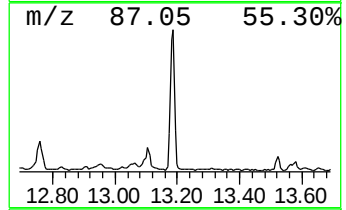
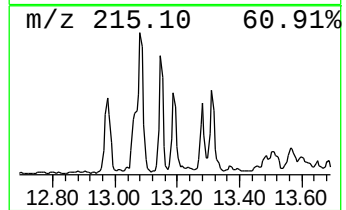
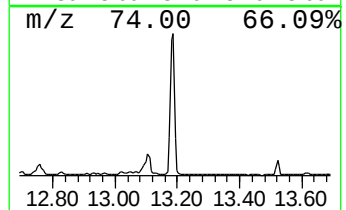
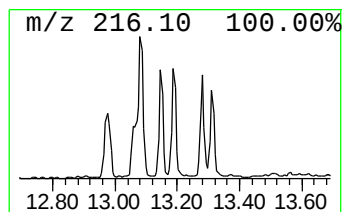
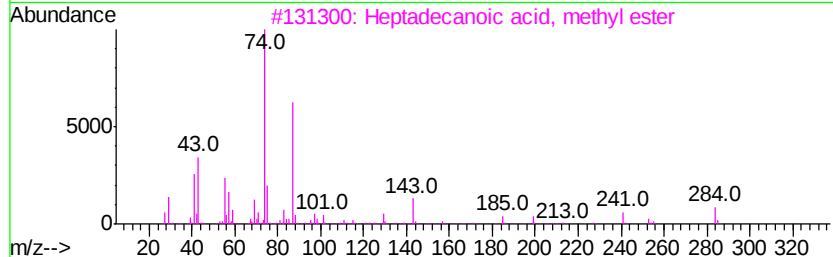
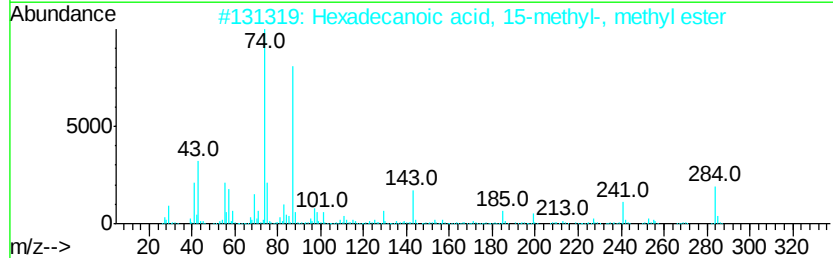
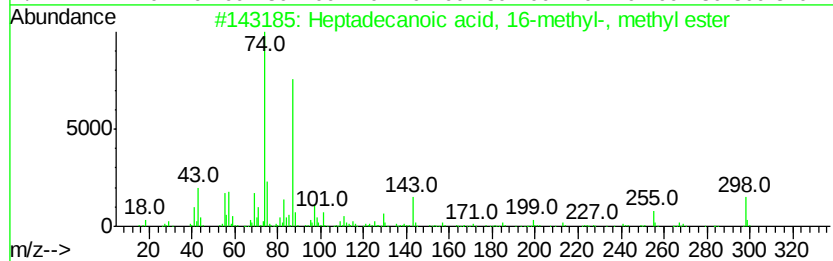
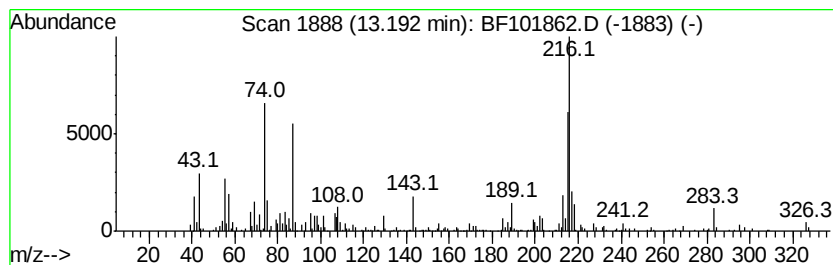
Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.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 Heptadecanoic acid, 16-meth... Concentration Rank 12

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.     |             |      |
|---------|----------|-------------------------------------|------------------|----------|-------------|------|
| 13.19   | 10.65 ng | 767034                              | Chrysene-d12     | 13.95    |             |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm  | CAS#        | Qual |
| 1       |          | Heptadecanoic acid, 16-methyl-, ... | 298              | C19H38O2 | 005129-61-3 | 97   |
| 2       |          | Hexadecanoic acid, 15-methyl-, m... | 284              | C18H36O2 | 006929-04-0 | 96   |
| 3       |          | Heptadecanoic acid, methyl ester    | 284              | C18H36O2 | 001731-92-6 | 92   |
| 4       |          | Hexadecanoic acid, 14-methyl-, m... | 284              | C18H36O2 | 002490-49-5 | 90   |
| 5       |          | Eicosanoic acid, methyl ester       | 326              | C21H42O2 | 001120-28-1 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

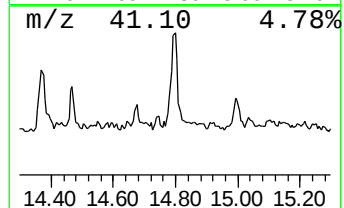
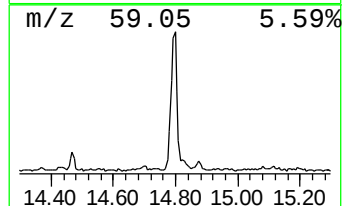
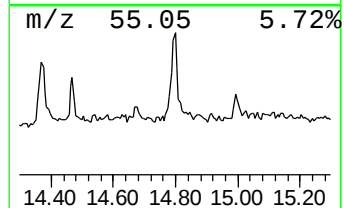
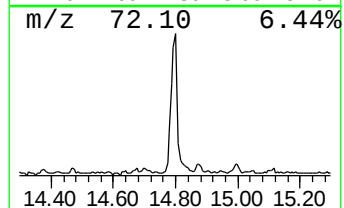
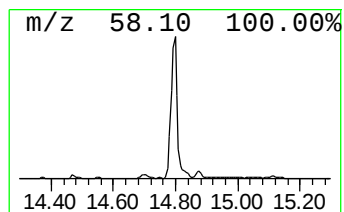
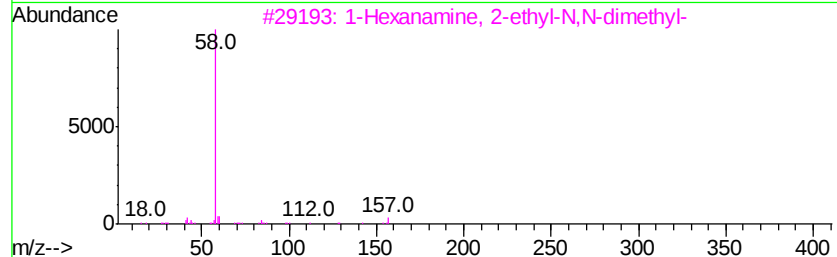
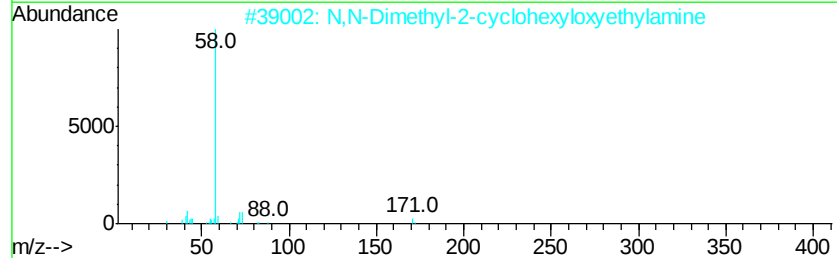
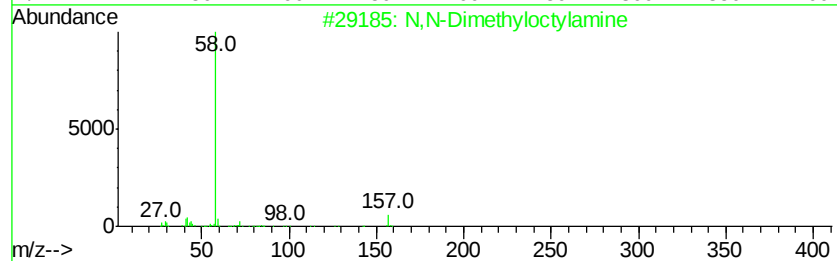
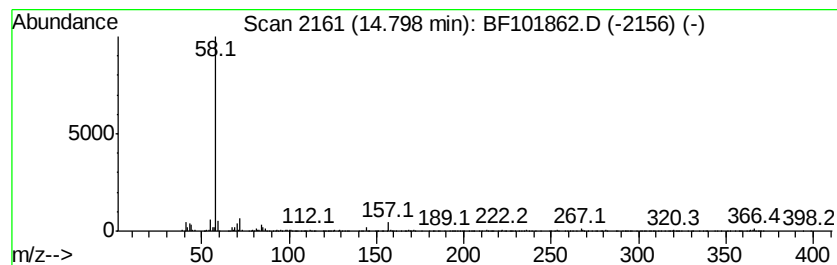
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 N,N-Dimethyloctylamine Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.80 | 30.92 ng | 859276 | Perylene-d12     | 15.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | N,N-Dimethyloctylamine              | 157 | C10H23N     | 007378-99-6  | 80   |
| 2    |    | N,N-Dimethyl-2-cyclohexyloxvethy... | 171 | C10H21NO    | 071126-60-8  | 72   |
| 3    |    | 1-Hexanamine, 2-ethyl-N,N-dimethyl- | 157 | C10H23N     | 028056-87-3  | 64   |
| 4    |    | Trifluomeprazine                    | 366 | C19H21F3N2S | 002622-37-9  | 64   |
| 5    |    | Fumaric acid, 2-dimethylaminoeth... | 271 | C14H25N04   | 1000331-64-5 | 59   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

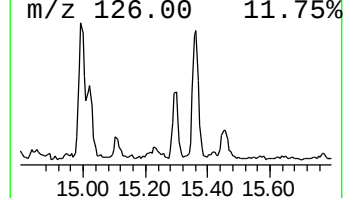
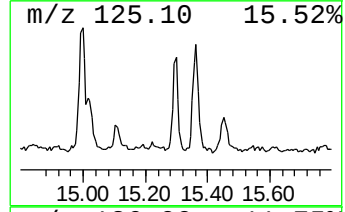
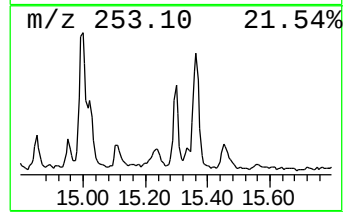
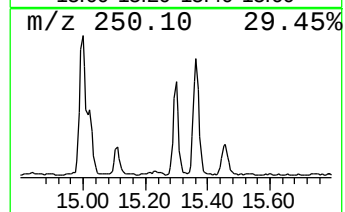
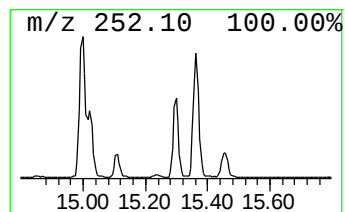
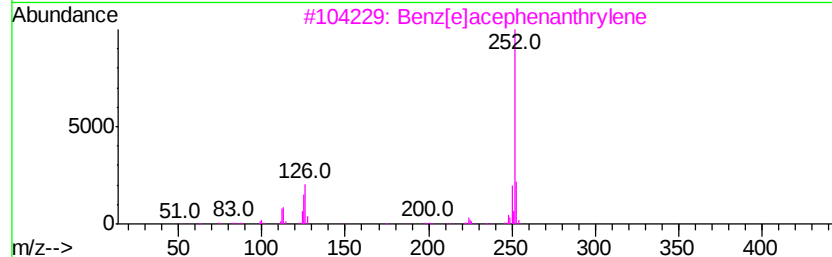
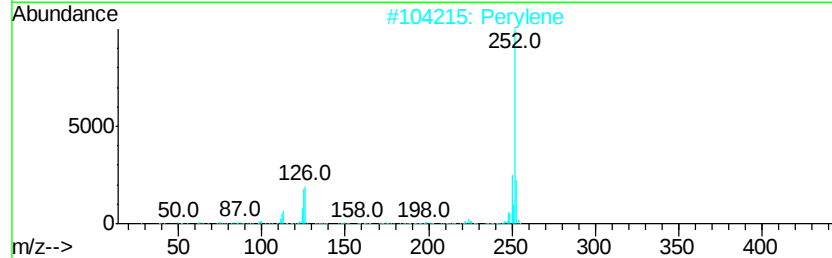
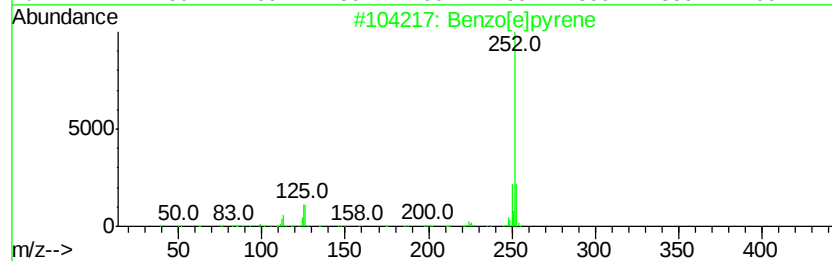
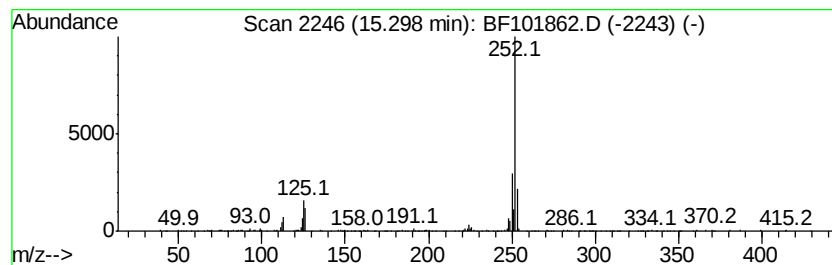
Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 19 Benzo[e]pyrene Concentration Rank 18

| R.T.      | EstConc                   | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------|--------|------------------|-------------|------|
| 15.30     | 7.62 ng                   | 211854 | Perylene-d12     | 15.42       |      |
| Hit# of 5 | Tentative ID              | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[e]pyrene            | 252    | C20H12           | 000192-97-2 | 97   |
| 2         | Perylene                  | 252    | C20H12           | 000198-55-0 | 94   |
| 3         | Benzo[e]acephenanthrylene | 252    | C20H12           | 000205-99-2 | 93   |
| 4         | Benzo[a]pyrene            | 252    | C20H12           | 000050-32-8 | 93   |
| 5         | Benzo[j]fluoranthene      | 252    | C20H12           | 000205-82-3 | 70   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101862.D  
Acq On : 3 Jan 2018 16:17  
Operator : SJ/JU  
Sample : J1019-01 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

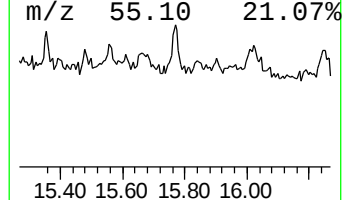
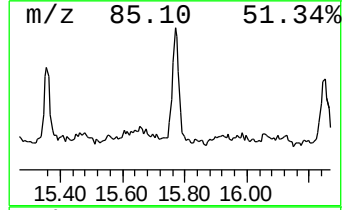
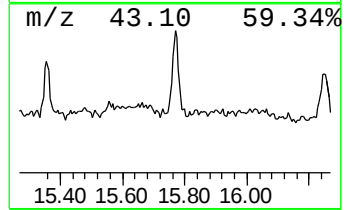
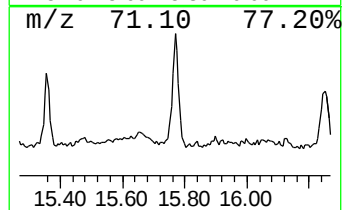
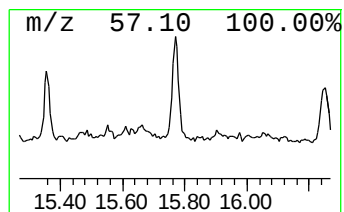
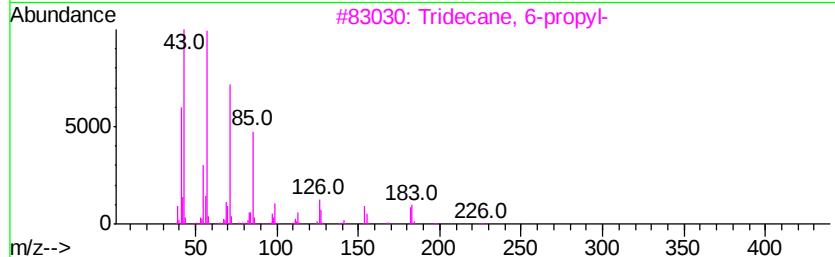
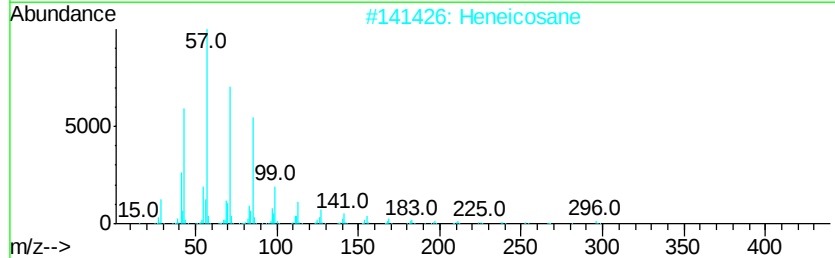
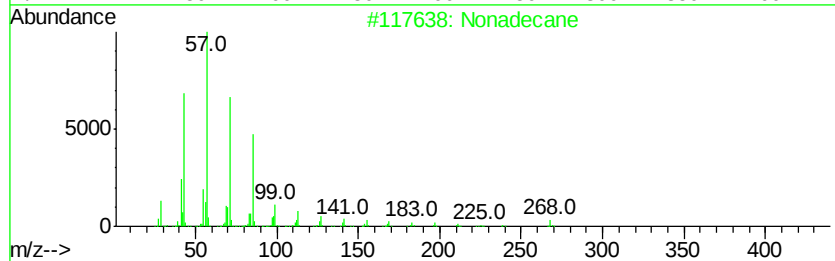
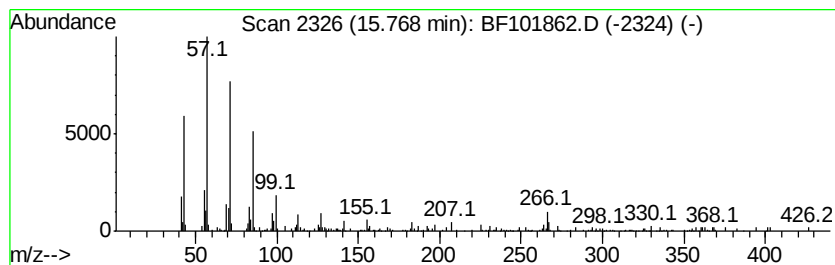
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Nonadecane Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.77 | 5.98 ng | 166113 | Perylene-d12     | 15.42 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Nonadecane           | 268 | C19H40  | 000629-92-5 | 93   |
| 2    |    |   | Heneicosane          | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    |   | Tridecane, 6-propyl- | 226 | C16H34  | 055045-10-8 | 91   |
| 4    |    |   | Tetracosane          | 338 | C24H50  | 000646-31-1 | 87   |
| 5    |    |   | Tricosane, 2-methyl- | 338 | C24H50  | 001928-30-9 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010318\  
 Data File : BF101862.D  
 Acq On : 3 Jan 2018 16:17  
 Operator : SJ/JU  
 Sample : J1019-01 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-01-010218-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.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 |
| unknown6.59          | 6.59  | 12.6    | ng    | 372036   | 1                     | 6.77  | 589871  | 20.0 |
| Hexadecane           | 8.63  | 13.3    | ng    | 493474   | 2                     | 8.05  | 740324  | 20.0 |
| Tetradecane          | 9.19  | 19.5    | ng    | 544228   | 3                     | 9.80  | 558948  | 20.0 |
| Heptadecane, 2,6,... | 9.50  | 7.7     | ng    | 215992   | 3                     | 9.80  | 558948  | 20.0 |
| Pentadecane, 2,6,... | 10.43 | 8.8     | ng    | 244944   | 3                     | 9.80  | 558948  | 20.0 |
| Heptadecane          | 10.69 | 15.2    | ng    | 498597   | 4                     | 11.30 | 657010  | 20.0 |
| Heneicosane          | 11.56 | 8.8     | ng    | 288107   | 4                     | 11.30 | 657010  | 20.0 |
| Hexadecanoic acid... | 11.68 | 176.2   | ng    | 5787550  | 4                     | 11.30 | 657010  | 20.0 |
| Phenanthrene, 3-m... | 11.83 | 6.5     | ng    | 213761   | 4                     | 11.30 | 657010  | 20.0 |
| 4H-Cyclopenta[def... | 11.92 | 7.8     | ng    | 257622   | 4                     | 11.30 | 657010  | 20.0 |
| Dodecane, 2-methy... | 11.97 | 7.6     | ng    | 250744   | 4                     | 11.30 | 657010  | 20.0 |
| 9,12-Octadecadien... | 12.39 | 466.0   | ng    | 15308700 | 4                     | 11.30 | 657010  | 20.0 |
| Methyl stearate      | 12.47 | 102.1   | ng    | 3352350  | 4                     | 11.30 | 657010  | 20.0 |
| Heptadecanoic aci... | 13.19 | 10.7    | ng    | 767034   | 5                     | 13.95 | 1441100 | 20.0 |
| N,N-Dimethyloctyl... | 14.80 | 30.9    | ng    | 859276   | 6                     | 15.42 | 555890  | 20.0 |
| Benzo[e]pyrene       | 15.30 | 7.6     | ng    | 211854   | 6                     | 15.42 | 555890  | 20.0 |
| Nonadecane           | 15.77 | 6.0     | ng    | 166113   | 6                     | 15.42 | 555890  | 20.0 |