

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
 Data File : BF113177.D  
 Acq On : 20 Mar 2019 18:04  
 Operator : JU/SJ  
 Sample : K1688-25 10X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-031919-C

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-BF022719.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 5.339    | 549        | 553      | 568       | rBV   | 219690      | 260611     | 8.32%        | 1.581%     |
| 2      | 6.369    | 725        | 728      | 742       | rBV   | 275137      | 311168     | 9.93%        | 1.887%     |
| 3      | 6.492    | 746        | 749      | 757       | rVV   | 295893      | 293317     | 9.36%        | 1.779%     |
| 4      | 6.722    | 785        | 788      | 803       | rVB   | 871969      | 759545     | 24.24%       | 4.607%     |
| 5      | 6.881    | 811        | 815      | 821       | rBV   | 268425      | 233992     | 7.47%        | 1.419%     |
| 6      | 7.281    | 877        | 883      | 890       | rBV   | 134911      | 155275     | 4.95%        | 0.942%     |
| 7      | 8.004    | 1002       | 1006     | 1013      | rBV   | 873718      | 835017     | 26.64%       | 5.065%     |
| 8      | 8.610    | 1104       | 1109     | 1116      | rBV2  | 81114       | 97059      | 3.10%        | 0.589%     |
| 9      | 8.833    | 1140       | 1147     | 1149      | rBV4  | 33647       | 44608      | 1.42%        | 0.271%     |
| 10     | 9.080    | 1185       | 1189     | 1194      | rBV   | 304134      | 279879     | 8.93%        | 1.698%     |
| 11     | 9.175    | 1201       | 1205     | 1209      | rBV   | 105119      | 100941     | 3.22%        | 0.612%     |
| 12     | 9.351    | 1228       | 1235     | 1240      | rBV7  | 29867       | 53314      | 1.70%        | 0.323%     |
| 13     | 9.698    | 1292       | 1294     | 1299      | rBV   | 132677      | 106157     | 3.39%        | 0.644%     |
| 14     | 9.757    | 1299       | 1304     | 1313      | rBV   | 1059414     | 925771     | 29.54%       | 5.615%     |
| 15     | 10.022   | 1345       | 1349     | 1353      | rVB5  | 31890       | 37164      | 1.19%        | 0.225%     |
| 16     | 10.198   | 1375       | 1379     | 1382      | rBV   | 149375      | 114404     | 3.65%        | 0.694%     |
| 17     | 10.416   | 1409       | 1416     | 1422      | rBV   | 58482       | 87753      | 2.80%        | 0.532%     |
| 18     | 10.545   | 1433       | 1438     | 1442      | rBV2  | 165222      | 179660     | 5.73%        | 1.090%     |
| 19     | 10.669   | 1456       | 1459     | 1466      | rBV   | 161036      | 175322     | 5.59%        | 1.063%     |
| 20     | 11.116   | 1532       | 1535     | 1538      | rBV   | 134841      | 109027     | 3.48%        | 0.661%     |
| 21     | 11.145   | 1538       | 1540     | 1545      | rVB2  | 54545       | 51073      | 1.63%        | 0.310%     |
| 22     | 11.239   | 1552       | 1556     | 1559      | rBV   | 919163      | 866533     | 27.65%       | 5.256%     |
| 23     | 11.539   | 1604       | 1607     | 1609      | rBV   | 113787      | 86629      | 2.76%        | 0.525%     |
| 24     | 11.639   | 1620       | 1624     | 1627      | rBV   | 1413634     | 1173923    | 37.46%       | 7.120%     |
| 25     | 11.768   | 1644       | 1646     | 1655      | rBV2  | 72362       | 92838      | 2.96%        | 0.563%     |
| 26     | 11.945   | 1671       | 1676     | 1680      | rBV   | 101059      | 99626      | 3.18%        | 0.604%     |
| 27     | 12.321   | 1736       | 1740     | 1742      | rBV   | 3187040     | 3133861    | 100.00%      | 19.009%    |
| 28     | 12.345   | 1742       | 1744     | 1747      | rVB   | 3247872     | 2505896    | 79.96%       | 15.200%    |
| 29     | 12.427   | 1754       | 1758     | 1761      | rBV   | 619738      | 526045     | 16.79%       | 3.191%     |
| 30     | 12.663   | 1794       | 1798     | 1802      | rBV2  | 112682      | 139175     | 4.44%        | 0.844%     |
| 31     | 12.704   | 1802       | 1805     | 1808      | rVB   | 67865       | 54640      | 1.74%        | 0.331%     |
| 32     | 12.815   | 1821       | 1824     | 1829      | rBV   | 353569      | 298823     | 9.54%        | 1.813%     |
| 33     | 12.986   | 1849       | 1853     | 1854      | rBV   | 80460       | 78321      | 2.50%        | 0.475%     |
| 34     | 13.057   | 1863       | 1865     | 1866      | rBV   | 82432       | 66188      | 2.11%        | 0.401%     |

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.151 | 1878 | 1881 | 1883 | rBV  | 84256  | 77188  | 2.46%  | 0.468% |
| 36 | 13.174 | 1883 | 1885 | 1889 | rVV4 | 45985  | 64564  | 2.06%  | 0.392% |
| 37 | 13.215 | 1889 | 1892 | 1896 | rVB4 | 38752  | 57284  | 1.83%  | 0.347% |
| 38 | 13.310 | 1905 | 1908 | 1910 | rBV3 | 36597  | 38044  | 1.21%  | 0.231% |
| 39 | 13.398 | 1921 | 1923 | 1926 | rVB  | 59984  | 47077  | 1.50%  | 0.286% |
| 40 | 13.727 | 1976 | 1979 | 1983 | rBV  | 72434  | 80726  | 2.58%  | 0.490% |
| 41 | 13.815 | 1992 | 1994 | 1998 | rBV  | 60224  | 54015  | 1.72%  | 0.328% |
| 42 | 13.868 | 1999 | 2003 | 2006 | rBV  | 979525 | 925017 | 29.52% | 5.611% |
| 43 | 14.039 | 2030 | 2032 | 2037 | rVB  | 63516  | 59325  | 1.89%  | 0.360% |
| 44 | 14.639 | 2132 | 2134 | 2138 | rBV  | 97776  | 94708  | 3.02%  | 0.574% |
| 45 | 15.280 | 2239 | 2243 | 2246 | rBV  | 560814 | 655055 | 20.90% | 3.973% |

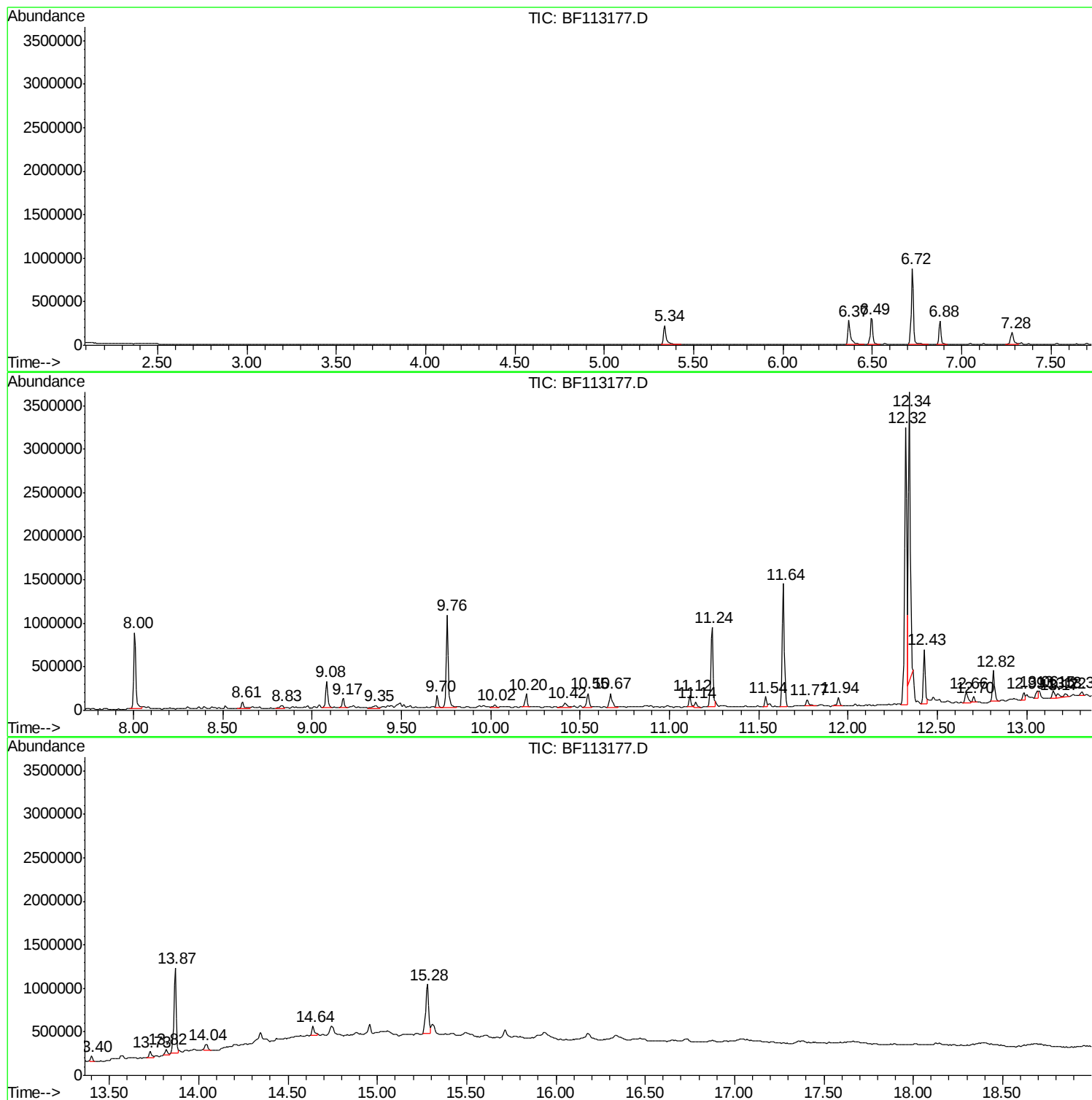
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BNA\_F  
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JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
JC-02-031919-C

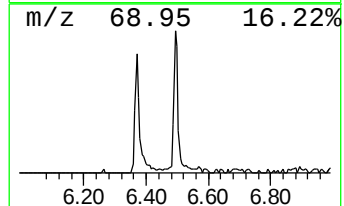
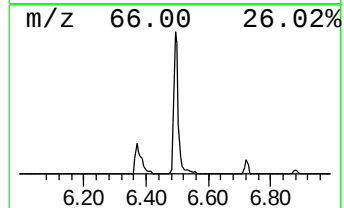
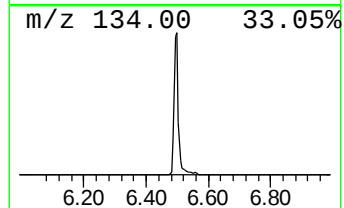
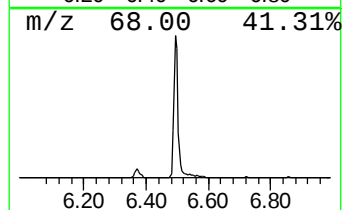
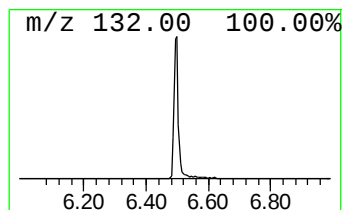
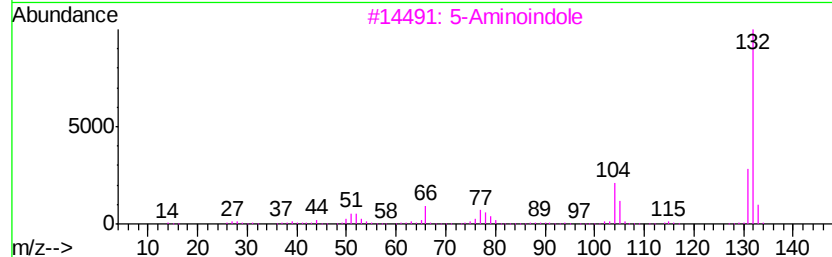
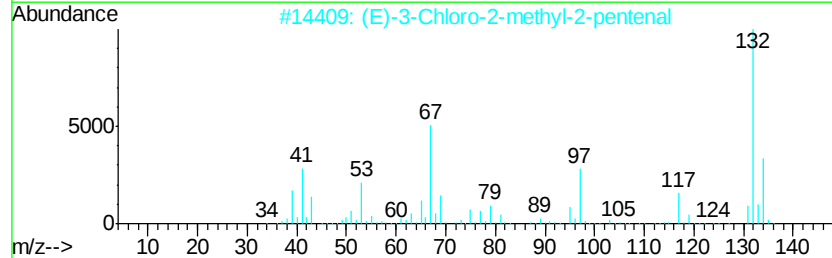
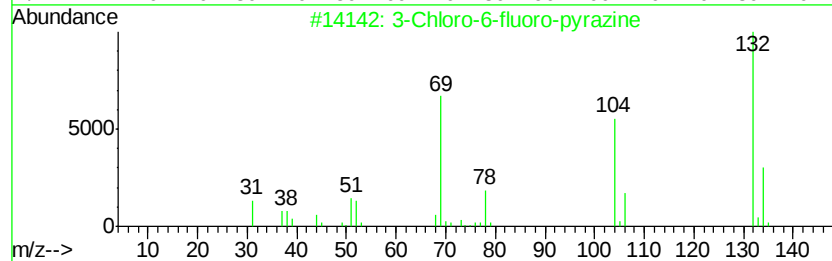
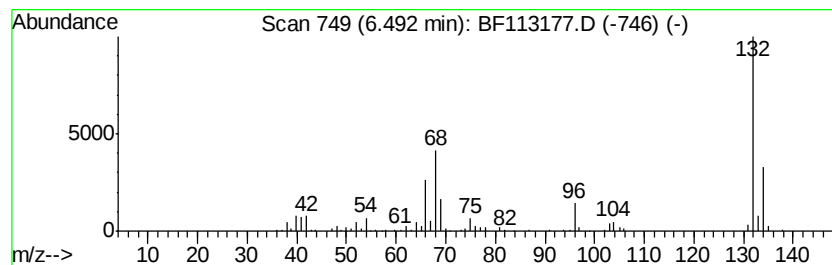
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.49 Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.49 | 7.72 ng | 293317 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |
| 5    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

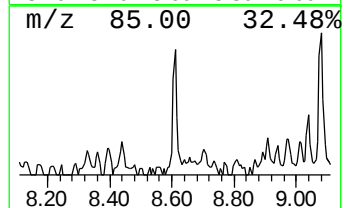
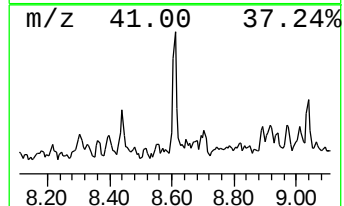
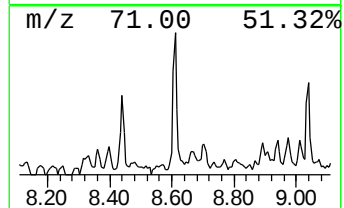
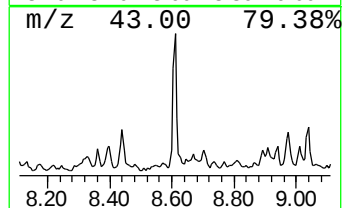
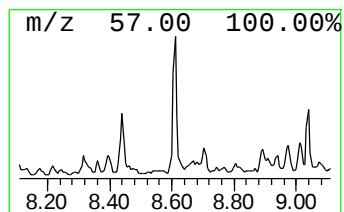
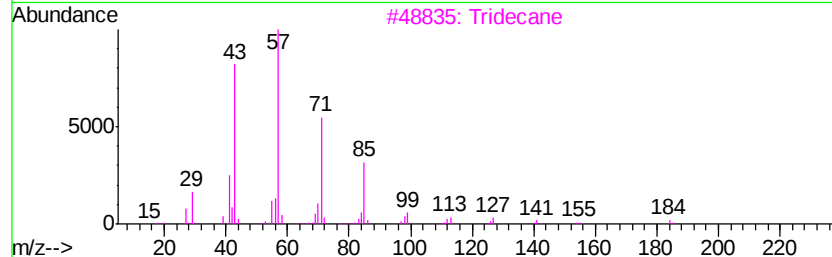
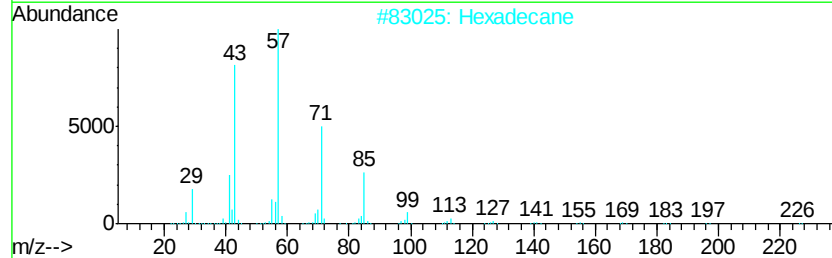
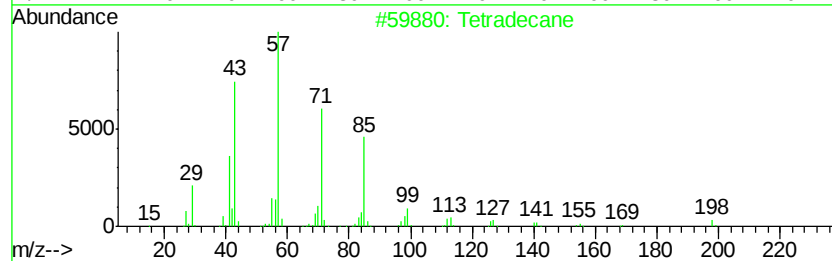
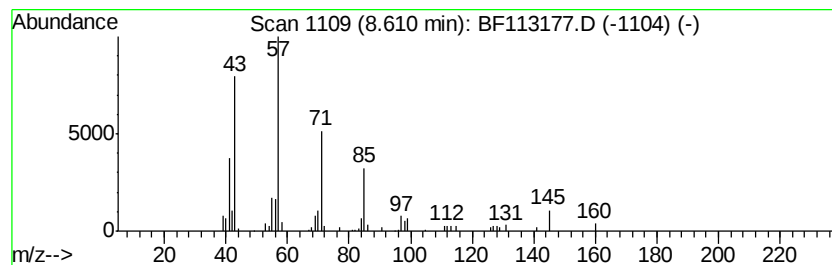
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Decane, 2,3,5-trimethyl- Concentration Rank 12

| R.T. | EstConc | Area  | Relative to ISTD | R.T. |
|------|---------|-------|------------------|------|
| 8.61 | 2.32 ng | 97059 | Naphthalene-d8   | 8.00 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane              | 198 | C14H30  | 000629-59-4 | 72   |
| 2    |    | Hexadecane               | 226 | C16H34  | 000544-76-3 | 72   |
| 3    |    | Tridecane                | 184 | C13H28  | 000629-50-5 | 72   |
| 4    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 72   |
| 5    |    | Decane, 2,3,6-trimethyl- | 184 | C13H28  | 062238-12-4 | 59   |



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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

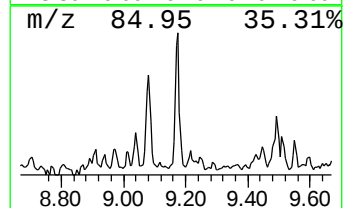
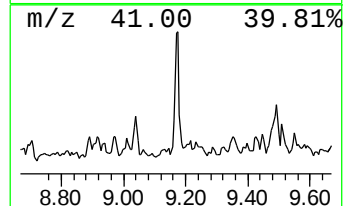
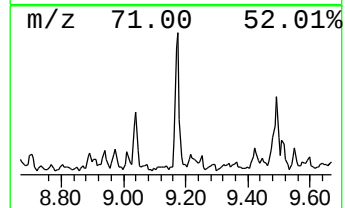
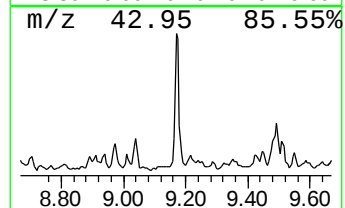
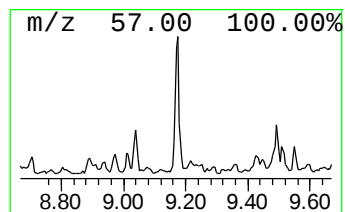
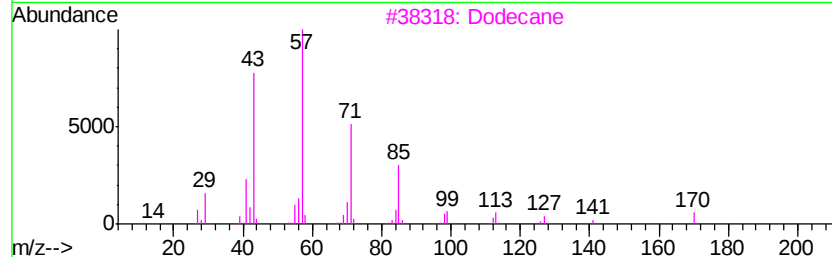
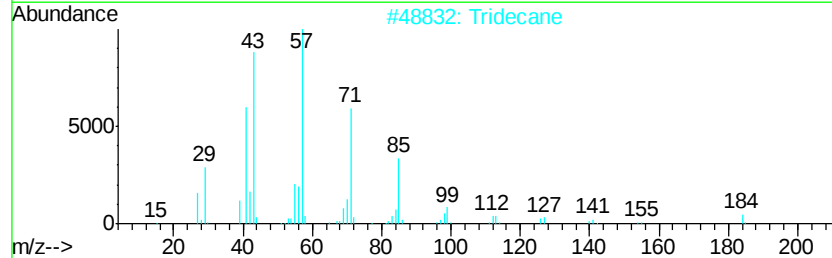
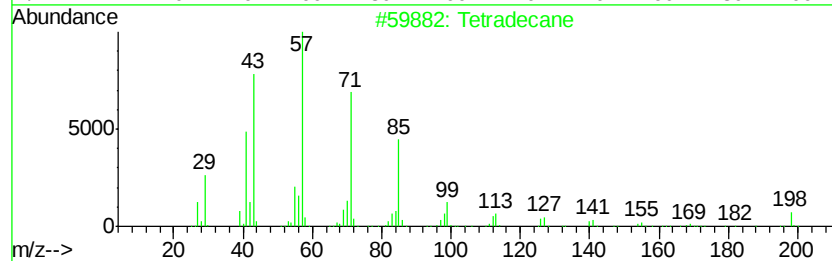
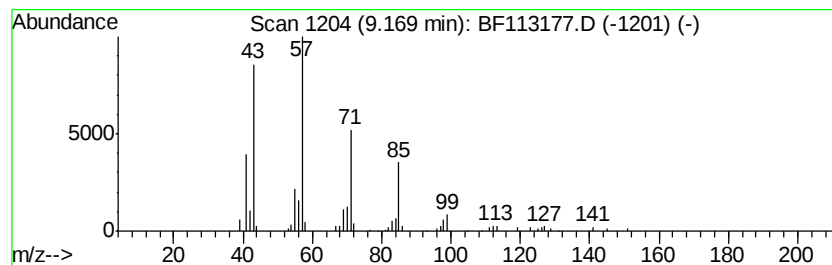
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetradecane Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.17 | 2.18 ng | 100941 | Acenaphthene-d10 | 9.76 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane               | 198 | C14H30  | 000629-59-4 | 96   |
| 2    |    | Tridecane                 | 184 | C13H28  | 000629-50-5 | 90   |
| 3    |    | Dodecane                  | 170 | C12H26  | 000112-40-3 | 90   |
| 4    |    | Hexadecane                | 226 | C16H34  | 000544-76-3 | 87   |
| 5    |    | Hexadecane, 7,9-dimethyl- | 254 | C18H38  | 021164-95-4 | 86   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

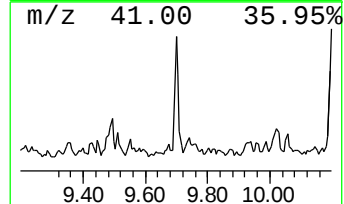
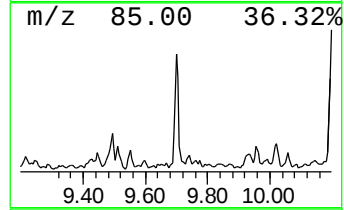
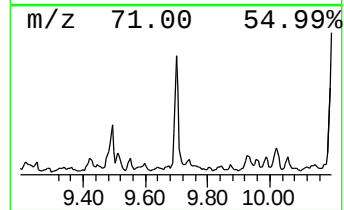
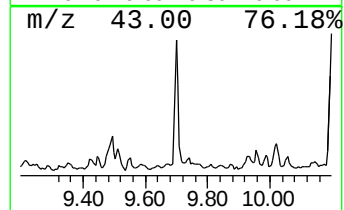
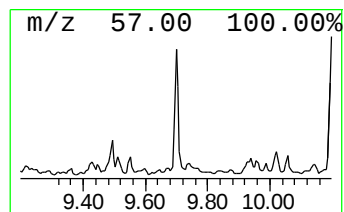
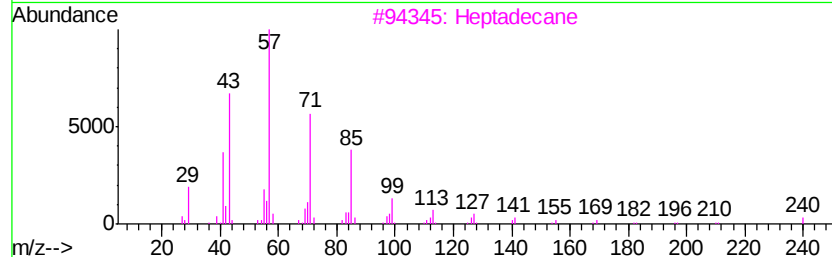
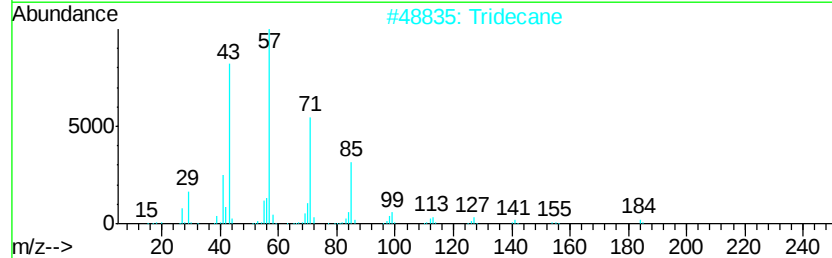
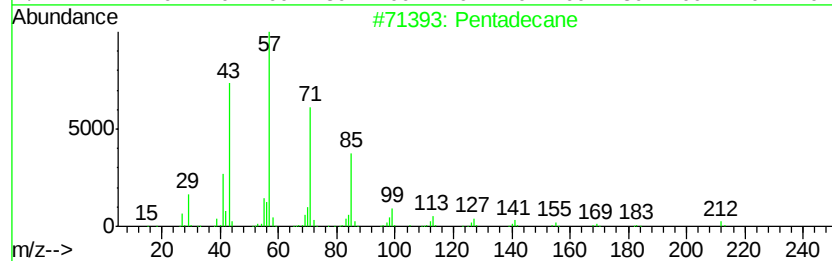
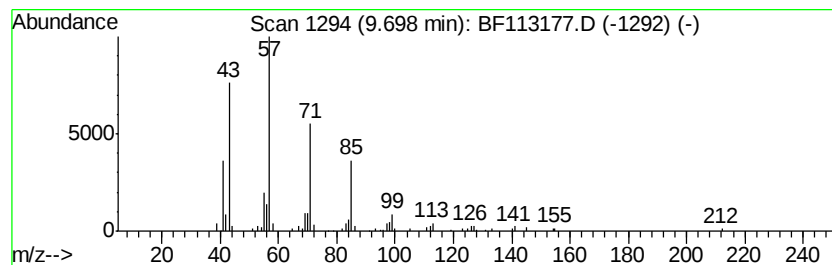
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pentadecane Concentration Rank 14

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.70 | 2.29 ng | 106157 | Acenaphthene-d10 | 9.76 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane  | 212 | C15H32  | 000629-62-9 | 95   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 3    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |
| 4    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 5    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

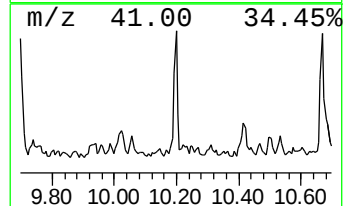
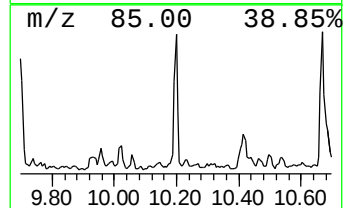
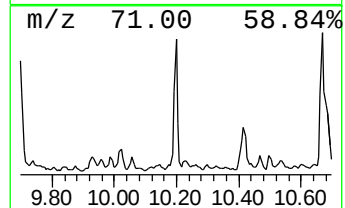
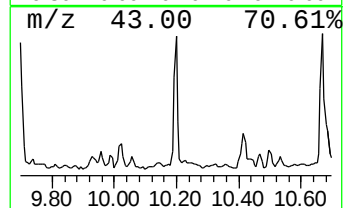
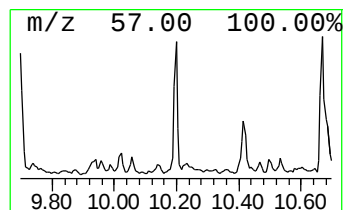
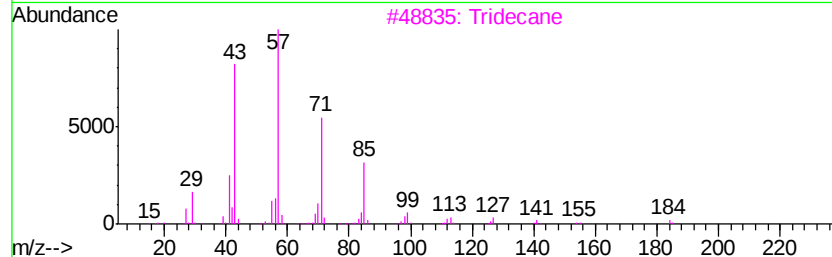
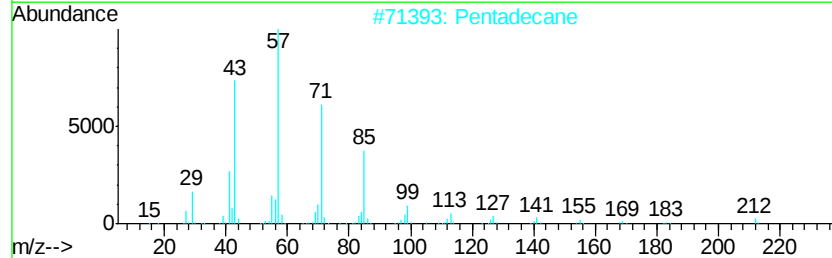
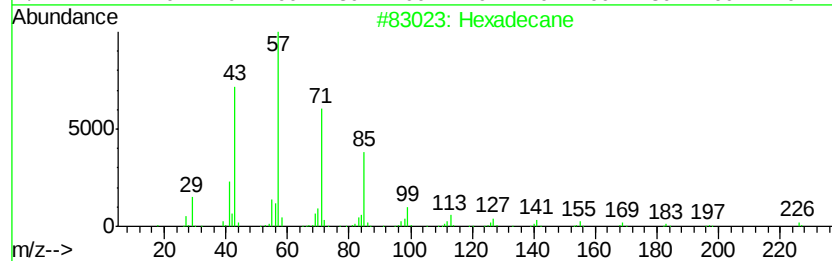
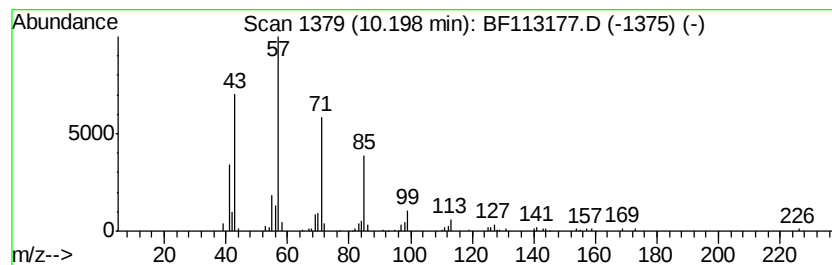
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ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 6 Hexadecane Concentration Rank 11

| R.T.    | EstConc                      | Area         | Relative to ISTD | R.T.      |
|---------|------------------------------|--------------|------------------|-----------|
| 10.20   | 2.47 ng                      | 114404       | Acenaphthene-d10 | 9.76      |
| Hit# of | 5                            | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                   | 226 C16H34   | 000544-76-3      | 94        |
| 2       | Pentadecane                  | 212 C15H32   | 000629-62-9      | 91        |
| 3       | Tridecane                    | 184 C13H28   | 000629-50-5      | 86        |
| 4       | Dodecane, 2-methyl-6-propyl- | 226 C16H34   | 055045-08-4      | 80        |
| 5       | Dodecane, 1-iodo-            | 296 C12H25I  | 004292-19-7      | 80        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

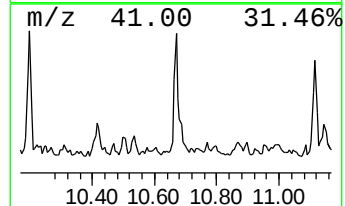
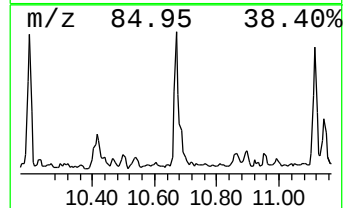
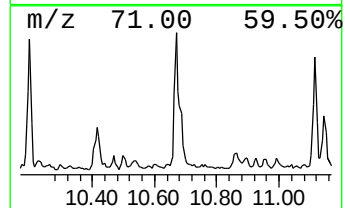
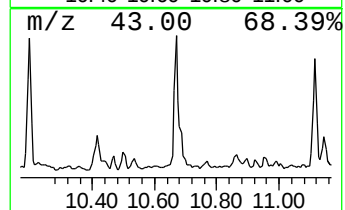
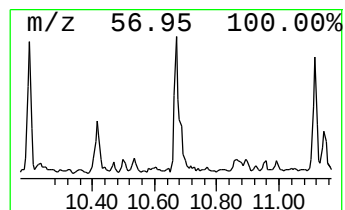
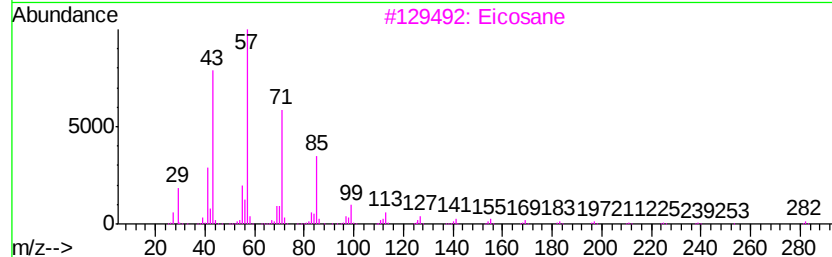
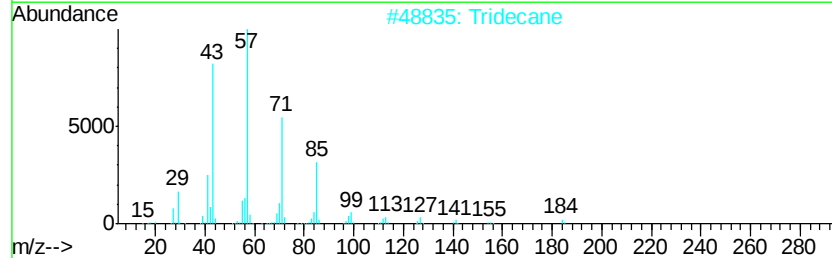
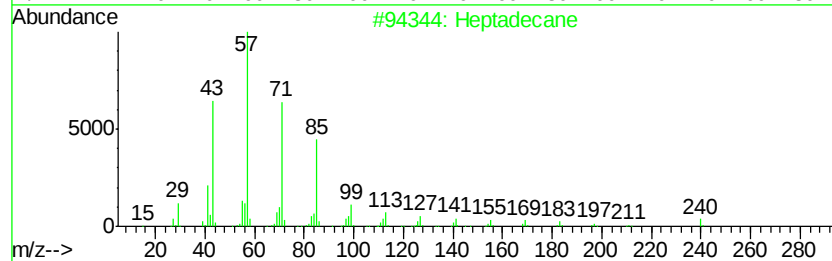
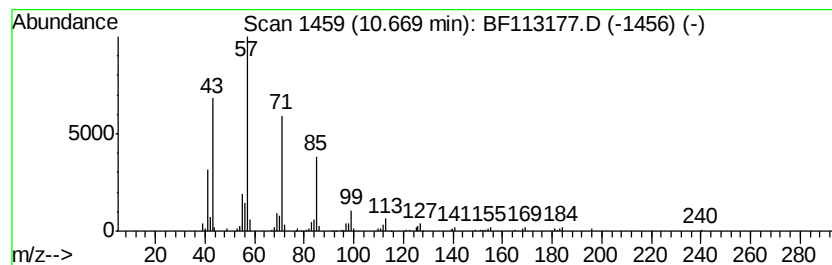
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.67 | 4.05 ng | 175322 | Phenanthrene-d10 | 11.24 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|------------------------|--------------|-----|----------|-------------|------|
| 1       | Heptadecane            |              | 240 | C17H36   | 000629-78-7 | 95   |
| 2       | Tridecane              |              | 184 | C13H28   | 000629-50-5 | 94   |
| 3       | Eicosane               |              | 282 | C20H42   | 000112-95-8 | 90   |
| 4       | Hexadecane             |              | 226 | C16H34   | 000544-76-3 | 90   |
| 5       | Heptacosane, 1-chloro- |              | 414 | C27H55Cl | 062016-79-9 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

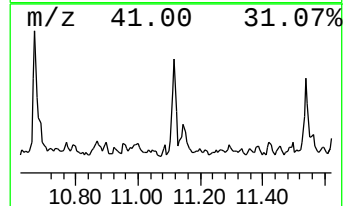
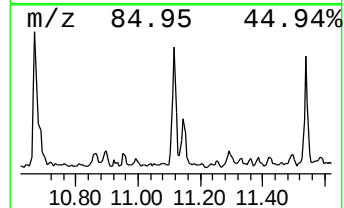
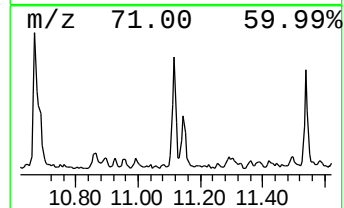
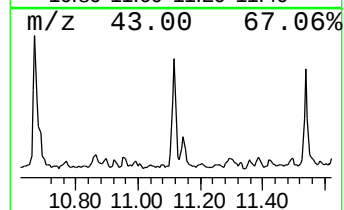
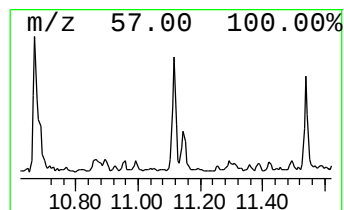
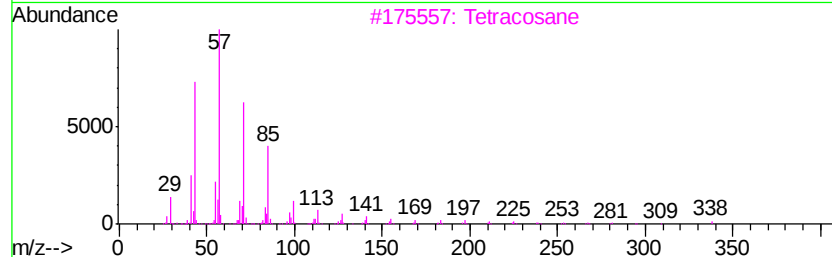
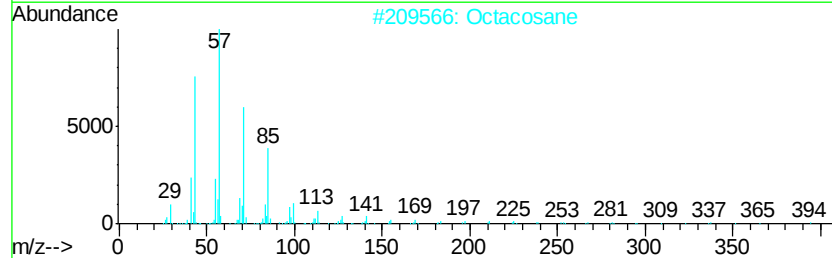
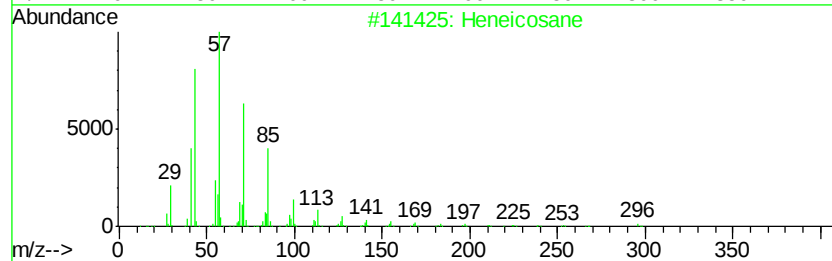
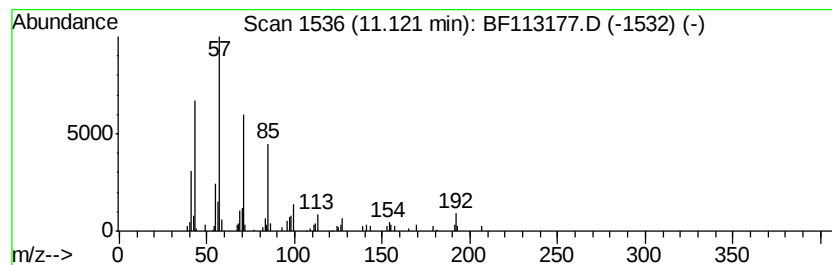
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heneicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.12 | 2.52 ng | 109027 | Phenanthrene-d10 | 11.24 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 87   |
| 2       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 86   |
| 3       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 86   |
| 4       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 86   |
| 5       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

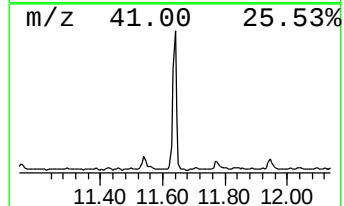
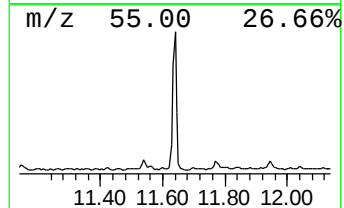
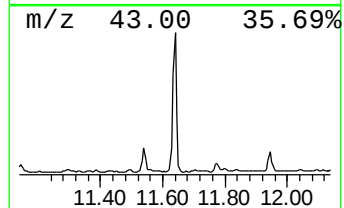
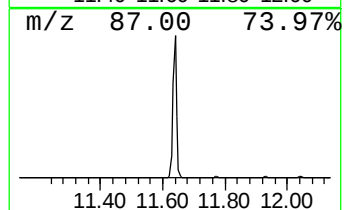
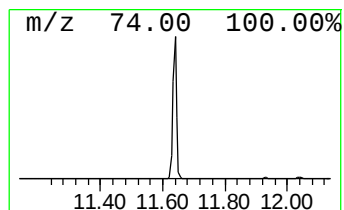
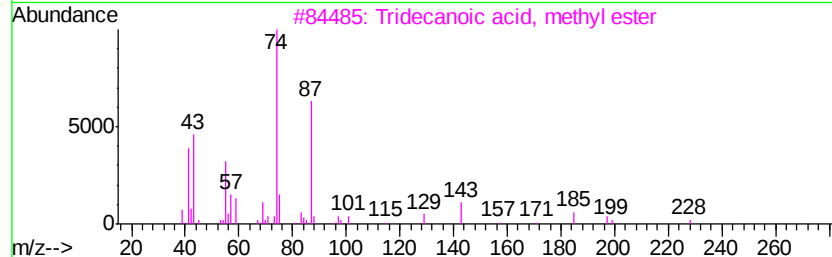
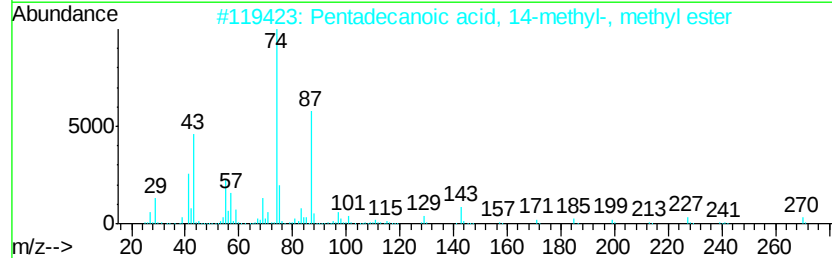
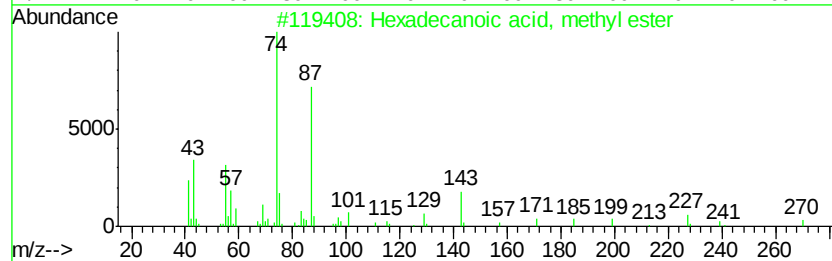
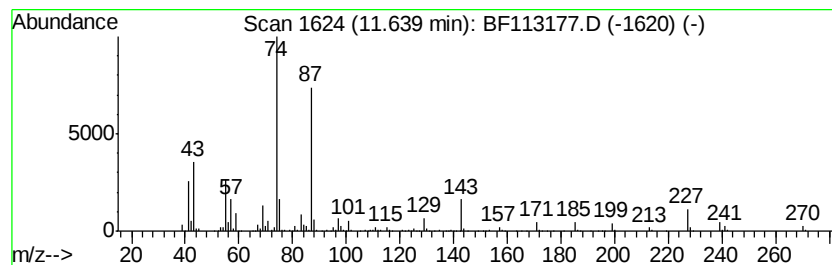
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.64 | 27.09 ng | 1173920 | Phenanthrene-d10 | 11.24 |

| 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 | 92   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 90   |
| 4    |    | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 87   |
| 5    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

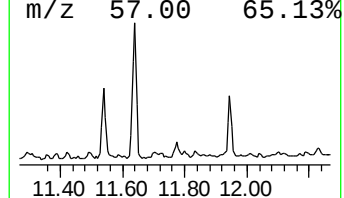
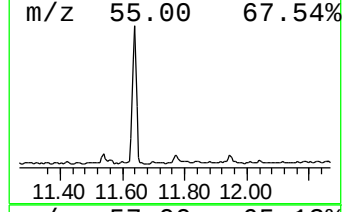
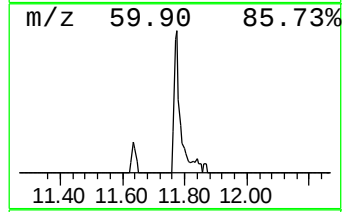
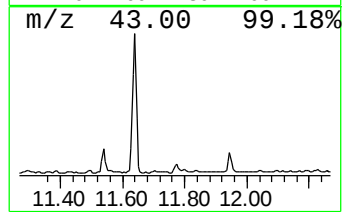
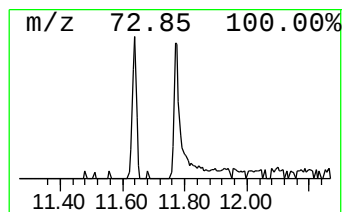
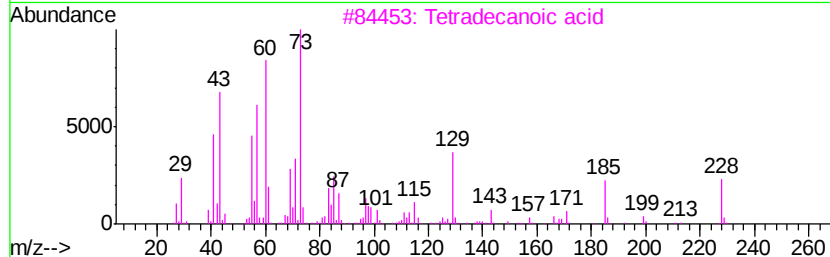
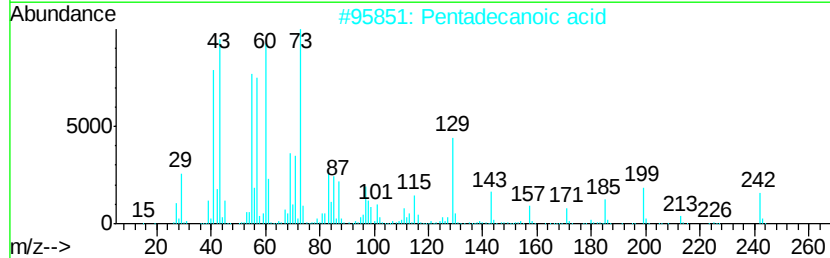
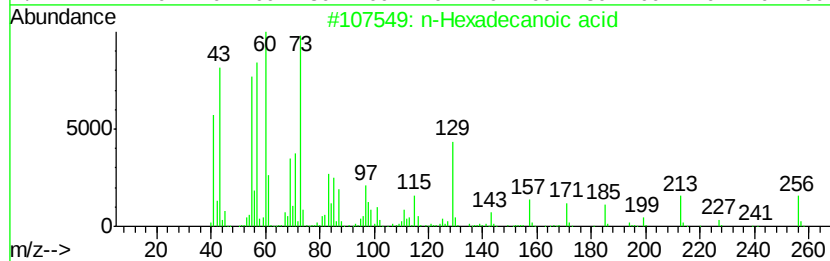
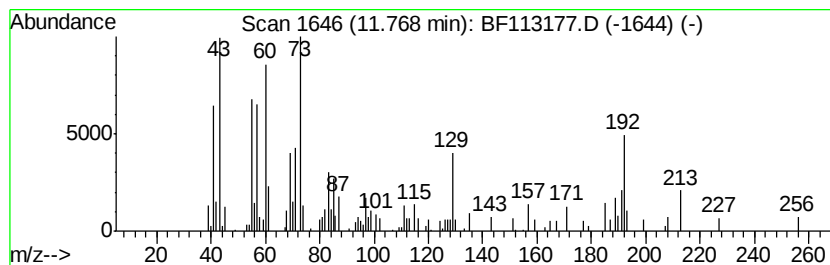
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 n-Hexadecanoic acid Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.77 | 2.14 ng | 92838 | Phenanthrene-d10 | 11.24 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 76   |
| 2    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 70   |
| 3    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 62   |
| 4    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 50   |
| 5    |    |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

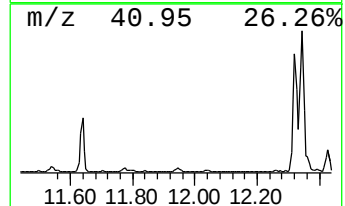
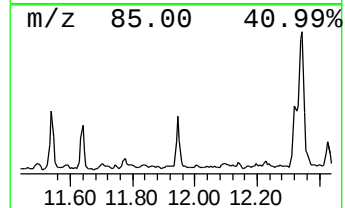
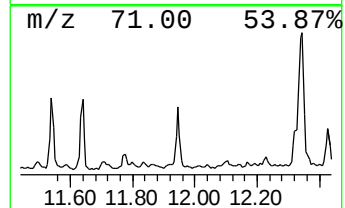
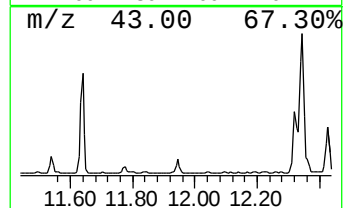
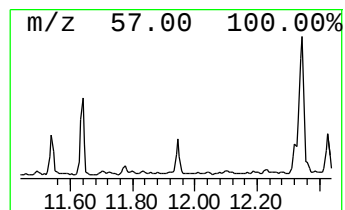
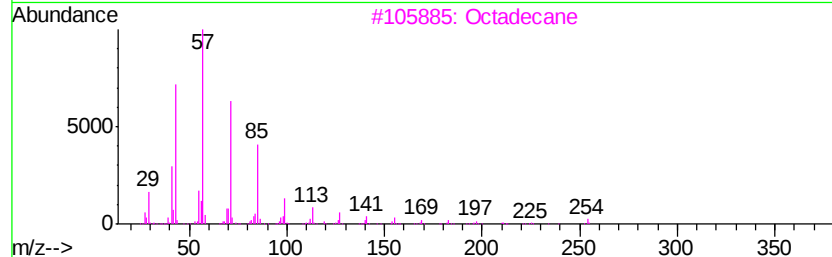
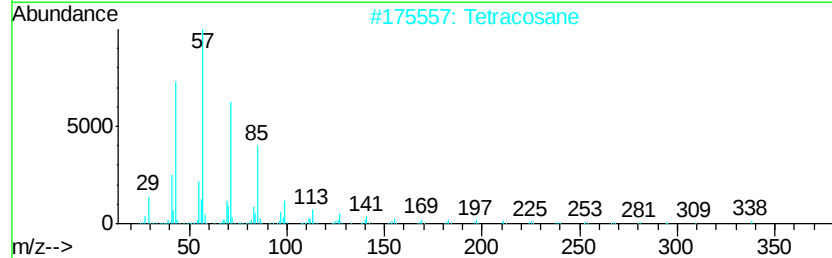
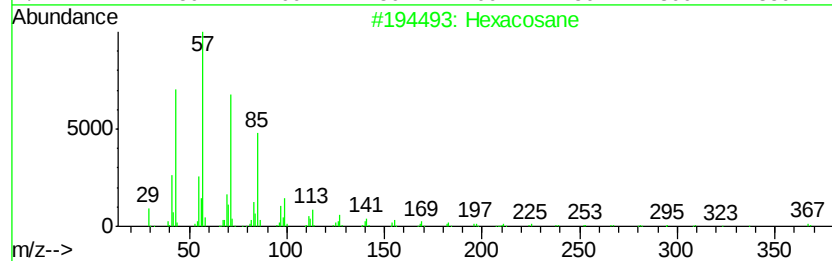
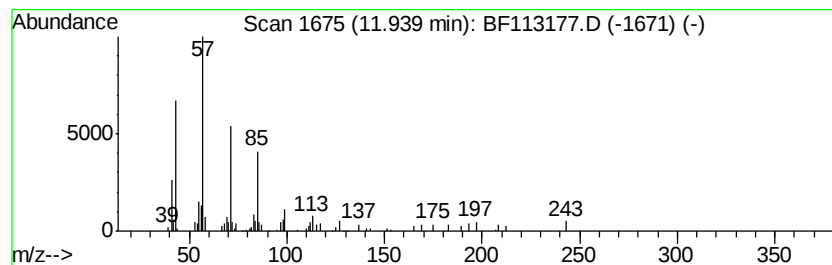
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Hexacosane Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.94 | 2.30 ng | 99626 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane   | 366 | C26H54  | 000630-01-3 | 90   |
| 2    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 87   |
| 3    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 86   |
| 4    |    | Docosane     | 310 | C22H46  | 000629-97-0 | 86   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

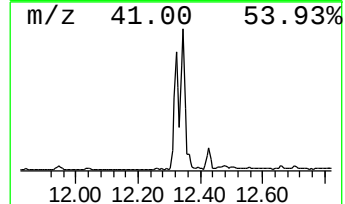
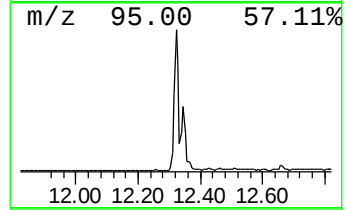
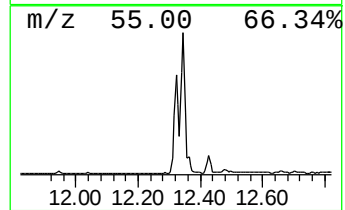
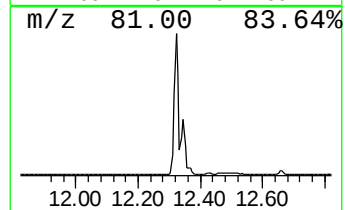
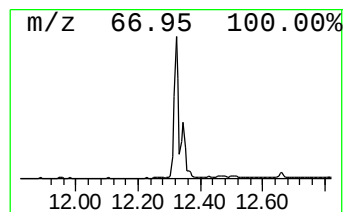
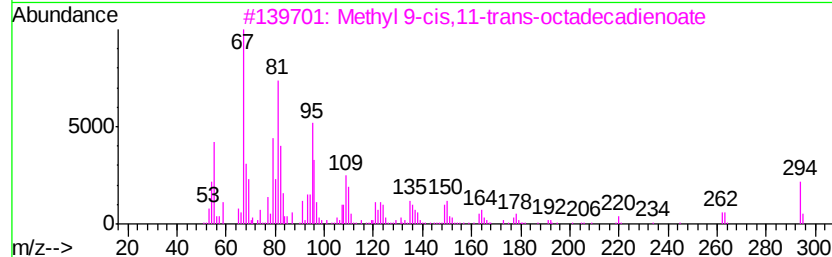
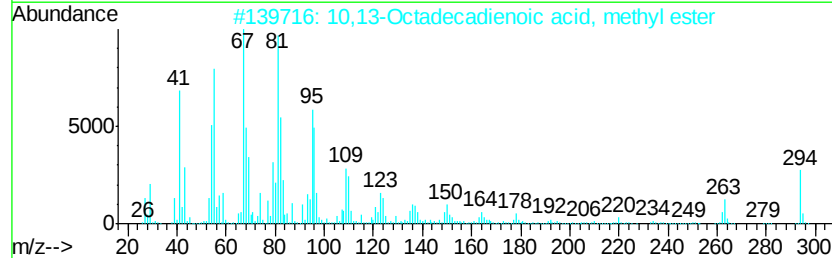
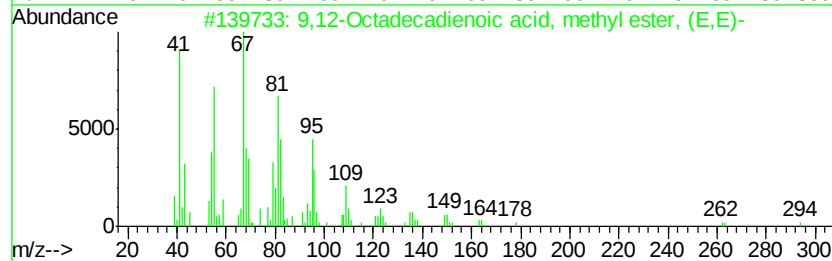
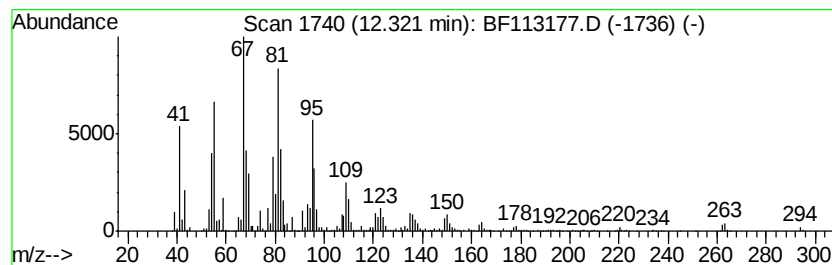
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.32 | 72.33 ng | 3133860 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4  | 99   |
| 2    |    | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2  | 99   |
| 3    |    | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99   |
| 4    |    | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7  | 99   |
| 5    |    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6  | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

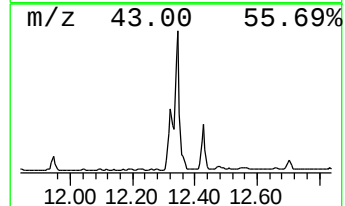
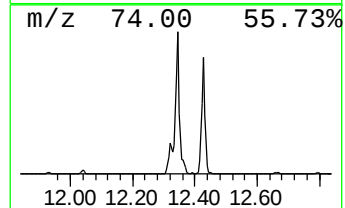
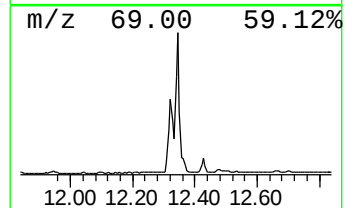
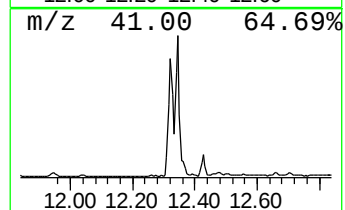
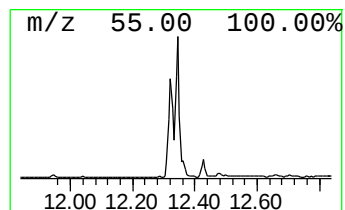
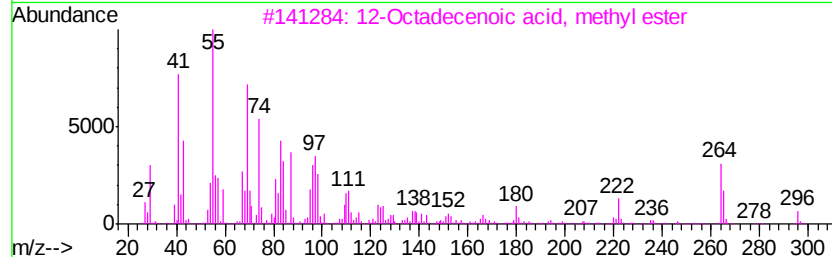
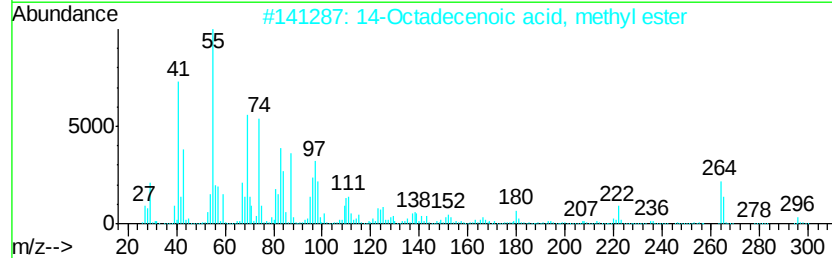
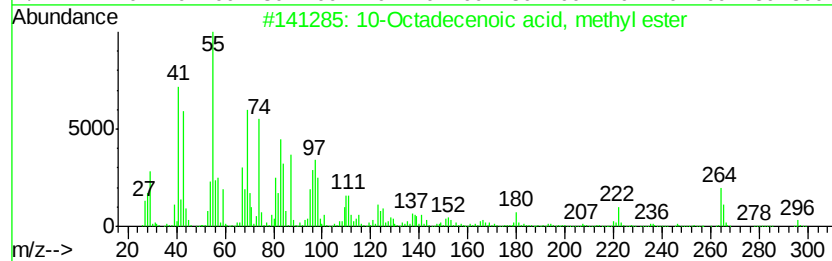
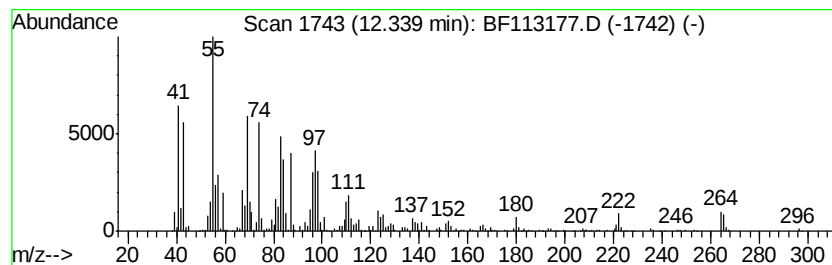
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 10-Octadecenoic acid, methyl ester Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.34 | 57.84 ng | 2505900 | Phenanthrene-d10 | 11.24 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 10-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 013481-95-3 | 99   |
| 2    |    |   | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 99   |
| 3    |    |   | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 99   |
| 4    |    |   | 9-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 001937-62-8 | 99   |
| 5    |    |   | 15-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 004764-72-1 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

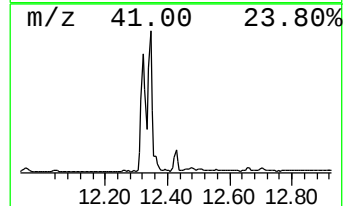
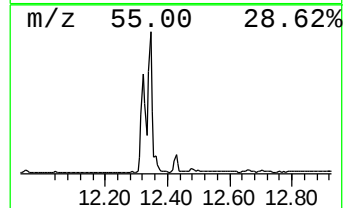
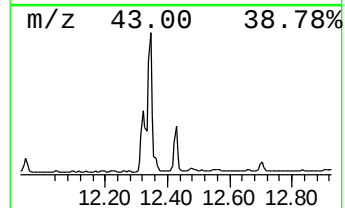
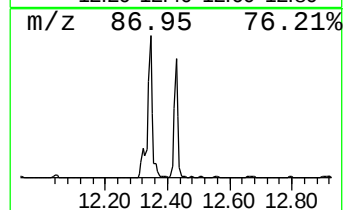
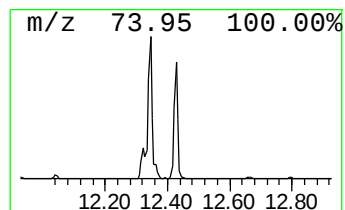
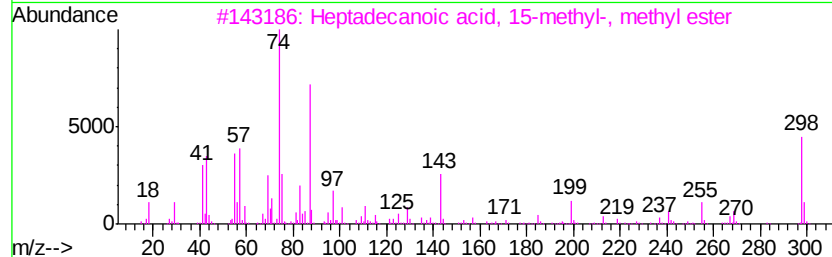
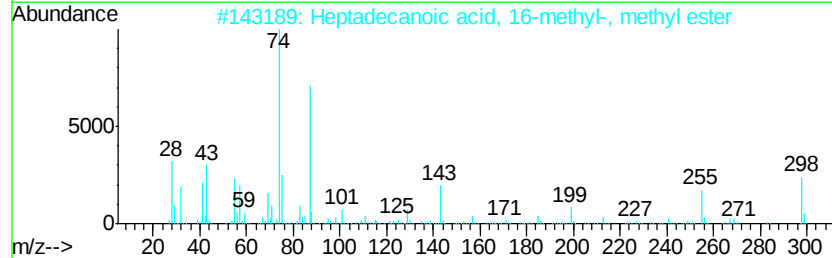
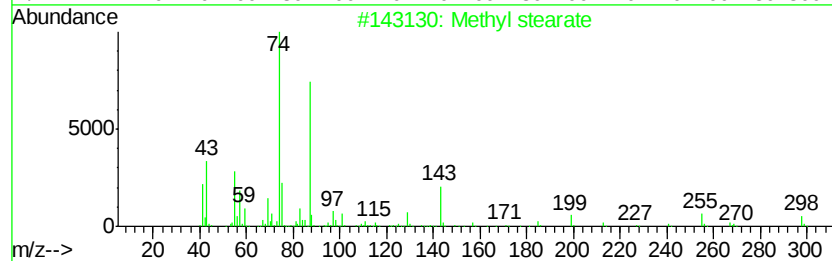
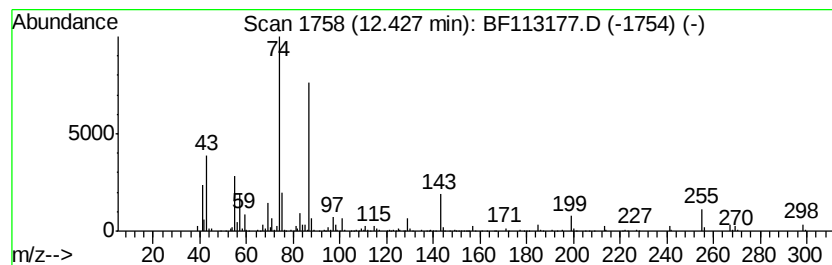
Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 Methyl stearate Concentration Rank 4

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.     |             |      |
|---------|----------|-------------------------------------|------------------|----------|-------------|------|
| 12.43   | 12.14 ng | 526045                              | Phenanthrene-d10 | 11.24    |             |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm  | CAS#        | Qual |
| 1       |          | Methyl stearate                     | 298              | C19H38O2 | 000112-61-8 | 98   |
| 2       |          | Heptadecanoic acid, 16-methyl-, ... | 298              | C19H38O2 | 005129-61-3 | 93   |
| 3       |          | Heptadecanoic acid, 15-methyl-, ... | 298              | C19H38O2 | 054833-55-5 | 93   |
| 4       |          | Methyl tetradecanoate               | 242              | C15H30O2 | 000124-10-7 | 87   |
| 5       |          | Heptadecanoic acid, methyl ester    | 284              | C18H36O2 | 001731-92-6 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

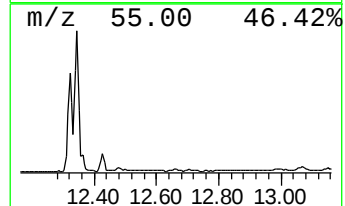
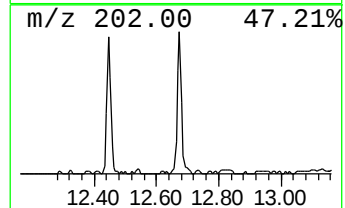
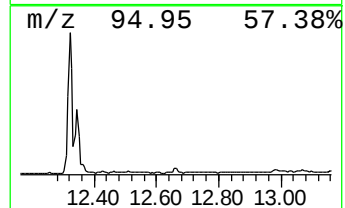
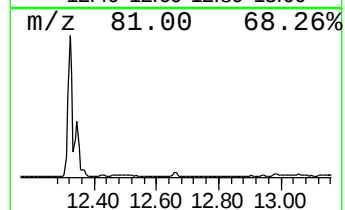
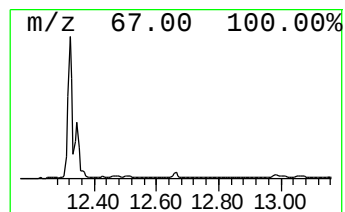
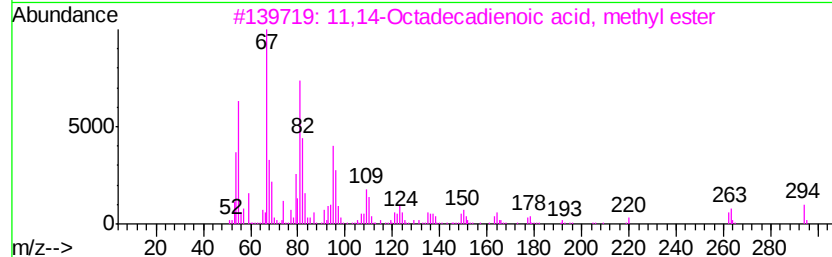
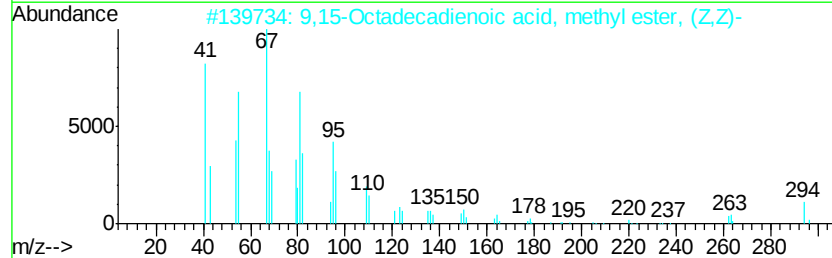
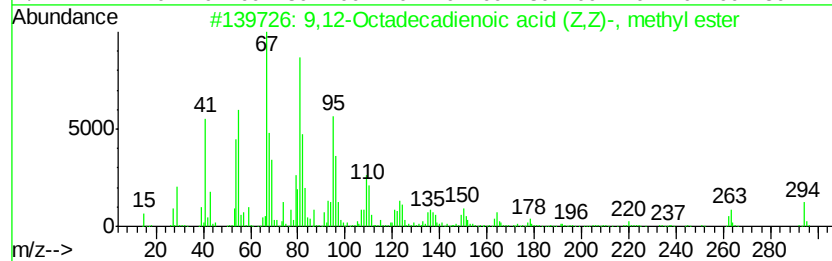
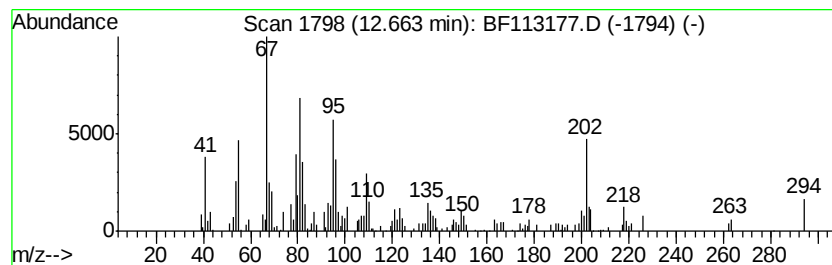
Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 9,12-Octadecadienoic acid (... Concentration Rank 8

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 12.66   | 3.01 ng                             | 139175       | Chrysene-d12     | 13.87        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 9,12-Octadecadienoic acid (Z,Z)-... | 294          | C19H34O2         | 000112-63-0  | 94   |      |
| 2       | 9,15-Octadecadienoic acid, methy... | 294          | C19H34O2         | 017309-05-6  | 74   |      |
| 3       | 11,14-Octadecadienoic acid, meth... | 294          | C19H34O2         | 056554-61-1  | 68   |      |
| 4       | Methyl 5,12-octadecadienoate        | 294          | C19H34O2         | 1000336-43-1 | 68   |      |
| 5       | 12,15-Octadecadienoic acid, meth... | 294          | C19H34O2         | 057156-97-5  | 64   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113177.D  
Acq On : 20 Mar 2019 18:04  
Operator : JU/SJ  
Sample : K1688-25 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

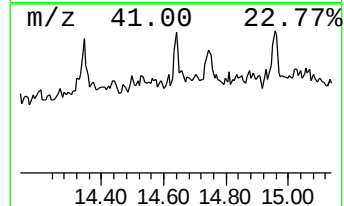
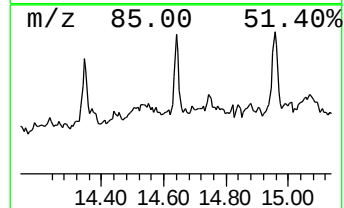
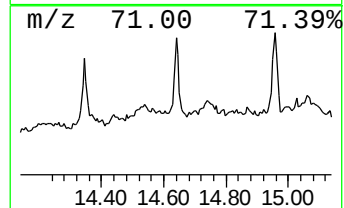
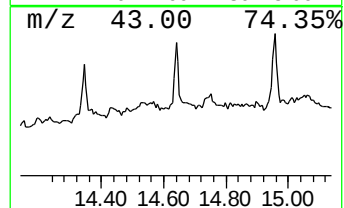
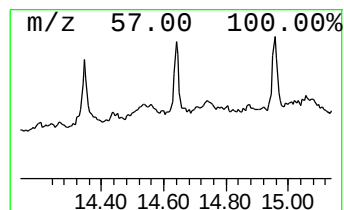
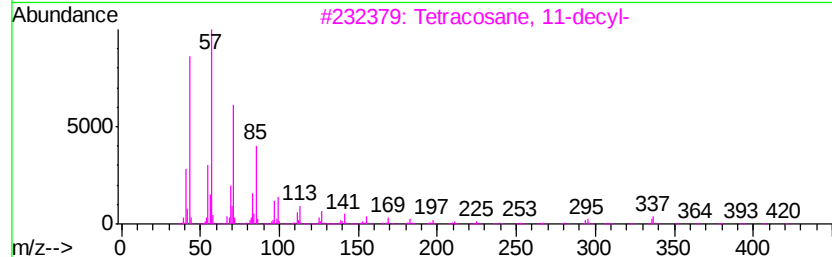
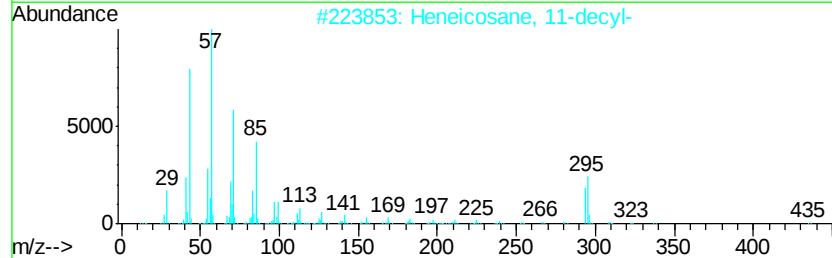
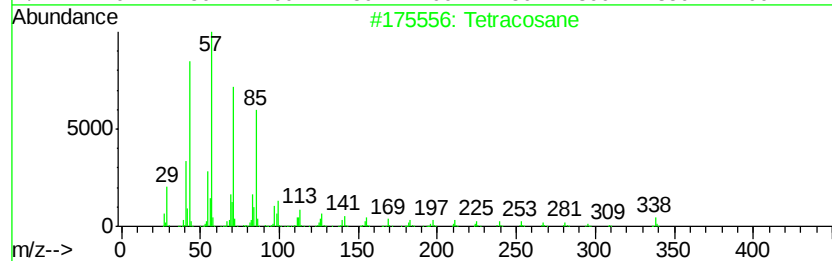
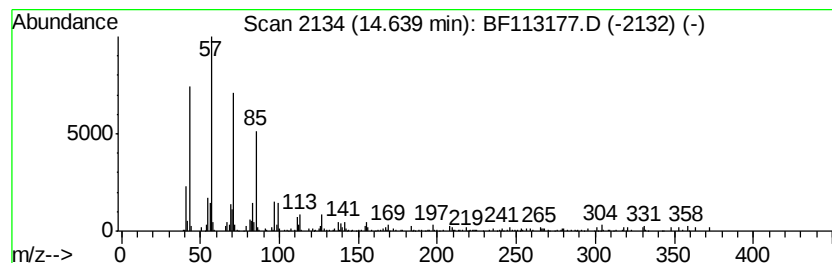
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Tetracosane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.64 | 2.89 ng | 94708 | Perylene-d12     | 15.28 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane            | 338 | C24H50  | 000646-31-1 | 87   |
| 2    |    | Heneicosane, 11-decyl- | 437 | C31H64  | 055320-06-4 | 87   |
| 3    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0 | 87   |
| 4    |    | Heptadecane, 9-octyl-  | 352 | C25H52  | 007225-64-1 | 83   |
| 5    |    | triacontane            | 422 | C30H62  | 000638-68-6 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
 Data File : BF113177.D  
 Acq On : 20 Mar 2019 18:04  
 Operator : JU/SJ  
 Sample : K1688-25 10X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-031919-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.49          | 6.49  | 7.7     | ng    | 293317   | 1                     | 6.72  | 759545 | 20.0 |
| Decane, 2,3,5-tri... | 8.61  | 2.3     | ng    | 97059    | 2                     | 8.00  | 835017 | 20.0 |
| Tetradecane          | 9.17  | 2.2     | ng    | 100941   | 3                     | 9.76  | 925771 | 20.0 |
| Pentadecane          | 9.70  | 2.3     | ng    | 106157   | 3                     | 9.76  | 925771 | 20.0 |
| Hexadecane           | 10.20 | 2.5     | ng    | 114404   | 3                     | 9.76  | 925771 | 20.0 |
| Heptadecane          | 10.67 | 4.0     | ng    | 175322   | 4                     | 11.24 | 866533 | 20.0 |
| Heneicosane          | 11.12 | 2.5     | ng    | 109027   | 4                     | 11.24 | 866533 | 20.0 |
| Hexadecanoic acid... | 11.64 | 27.1    | ng    | 1173920  | 4                     | 11.24 | 866533 | 20.0 |
| n-Hexadecanoic acid  | 11.77 | 2.1     | ng    | 92838    | 4                     | 11.24 | 866533 | 20.0 |
| Hexacosane           | 11.94 | 2.3     | ng    | 99626    | 4                     | 11.24 | 866533 | 20.0 |
| 9,12-Octadecadien... | 12.32 | 72.3    | ng    | 3133860  | 4                     | 11.24 | 866533 | 20.0 |
| 10-Octadecenoic a... | 12.34 | 57.8    | ng    | 2505900  | 4                     | 11.24 | 866533 | 20.0 |
| Methyl stearate      | 12.43 | 12.1    | ng    | 526045   | 4                     | 11.24 | 866533 | 20.0 |
| 9,12-Octadecadien... | 12.66 | 3.0     | ng    | 139175   | 5                     | 13.87 | 925017 | 20.0 |
| Tetracosane          | 14.64 | 2.9     | ng    | 94708    | 6                     | 15.28 | 655055 | 20.0 |