

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF060719\  
 Data File : BF114918.D  
 Acq On : 8 Jun 2019 4:04  
 Operator : HP/JU  
 Sample : K3160-05 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-060619-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-BF060419.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         | 5.269       | 537           | 541         | 545          | rBV      | 2894042        | 2620103       | 19.99%          | 3.438%        |
| 2         | 6.304       | 712           | 717         | 720          | rBV      | 3112992        | 2681592       | 20.46%          | 3.518%        |
| 3         | 6.428       | 734           | 738         | 742          | rBV      | 2987735        | 2884425       | 22.01%          | 3.785%        |
| 4         | 6.663       | 774           | 778         | 781          | rBV      | 2002410        | 1661538       | 12.68%          | 2.180%        |
| 5         | 6.816       | 800           | 804         | 808          | rBV      | 2733546        | 2312488       | 17.64%          | 3.034%        |
| 6         | 7.222       | 865           | 873         | 876          | rBV      | 1949286        | 1697816       | 12.95%          | 2.228%        |
| 7         | 7.945       | 991           | 996         | 998          | rBV      | 2414240        | 2196350       | 16.76%          | 2.882%        |
| 8         | 8.451       | 1078          | 1082        | 1085         | rBV2     | 150311         | 167903        | 1.28%           | 0.220%        |
| 9         | 8.551       | 1094          | 1099        | 1101         | rBV3     | 141635         | 174253        | 1.33%           | 0.229%        |
| 10        | 8.651       | 1112          | 1116        | 1120         | rVB3     | 113480         | 148177        | 1.13%           | 0.194%        |
| 11        | 9.016       | 1174          | 1178        | 1181         | rBV      | 3777705        | 3121110       | 23.81%          | 4.095%        |
| 12        | 9.116       | 1191          | 1195        | 1197         | rVB      | 197507         | 176087        | 1.34%           | 0.231%        |
| 13        | 9.275       | 1218          | 1222        | 1229         | rBV7     | 104860         | 195290        | 1.49%           | 0.256%        |
| 14        | 9.410       | 1242          | 1245        | 1248         | rBV      | 272318         | 286838        | 2.19%           | 0.376%        |
| 15        | 9.639       | 1281          | 1284        | 1287         | rBV      | 338812         | 254680        | 1.94%           | 0.334%        |
| 16        | 9.686       | 1287          | 1292        | 1296         | rBV      | 2261282        | 2215808       | 16.91%          | 2.907%        |
| 17        | 10.133      | 1366          | 1368        | 1371         | rVB      | 376751         | 321579        | 2.45%           | 0.422%        |
| 18        | 10.357      | 1402          | 1406        | 1409         | rBV      | 188487         | 207244        | 1.58%           | 0.272%        |
| 19        | 10.469      | 1422          | 1425        | 1430         | rVB      | 1784728        | 1541132       | 11.76%          | 2.022%        |
| 20        | 10.604      | 1445          | 1448        | 1455         | rBV      | 476259         | 598275        | 4.56%           | 0.785%        |
| 21        | 11.051      | 1521          | 1524        | 1527         | rBV2     | 483919         | 407224        | 3.11%           | 0.534%        |
| 22        | 11.086      | 1527          | 1530        | 1536         | rVB      | 195122         | 204908        | 1.56%           | 0.269%        |
| 23        | 11.163      | 1539          | 1543        | 1545         | rBV      | 2261907        | 1837736       | 14.02%          | 2.411%        |
| 24        | 11.186      | 1545          | 1547        | 1551         | rVV      | 685658         | 534712        | 4.08%           | 0.702%        |
| 25        | 11.233      | 1552          | 1555        | 1559         | rVB      | 188002         | 183651        | 1.40%           | 0.241%        |
| 26        | 11.474      | 1593          | 1596        | 1598         | rBV      | 389896         | 345473        | 2.64%           | 0.453%        |
| 27        | 11.498      | 1598          | 1600        | 1603         | rVB      | 262225         | 204927        | 1.56%           | 0.269%        |
| 28        | 11.574      | 1609          | 1613        | 1617         | rBV      | 5615524        | 5044645       | 38.49%          | 6.619%        |
| 29        | 11.710      | 1633          | 1636        | 1639         | rVB      | 753603         | 595449        | 4.54%           | 0.781%        |
| 30        | 11.769      | 1643          | 1646        | 1649         | rBV      | 225186         | 223843        | 1.71%           | 0.294%        |
| 31        | 11.880      | 1662          | 1665        | 1670         | rVB      | 350318         | 348056        | 2.66%           | 0.457%        |
| 32        | 12.263      | 1725          | 1730        | 1732         | rBV      | 9601159        | 12895213      | 98.39%          | 16.919%       |
| 33        | 12.292      | 1732          | 1735        | 1740         | rVV      | 10844849       | 13106355      | 100.00%         | 17.196%       |
| 34        | 12.327      | 1740          | 1741        | 1744         | rVV2     | 206745         | 162478        | 1.24%           | 0.213%        |

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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-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-BF060419.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.363 | 1744 | 1747 | 1750 | rVV2 | 3495767 | 3054055 | 23.30% | 4.007% |
| 36 | 12.398 | 1750 | 1753 | 1754 | rVV  | 648979  | 687600  | 5.25%  | 0.902% |
| 37 | 12.416 | 1754 | 1756 | 1766 | rVV2 | 1530625 | 1808859 | 13.80% | 2.373% |
| 38 | 12.492 | 1766 | 1769 | 1775 | rVB3 | 239077  | 295233  | 2.25%  | 0.387% |
| 39 | 12.592 | 1781 | 1786 | 1790 | rBV  | 1087243 | 1063034 | 8.11%  | 1.395% |
| 40 | 12.639 | 1791 | 1794 | 1796 | rVB3 | 239906  | 190240  | 1.45%  | 0.250% |
| 41 | 12.745 | 1808 | 1812 | 1815 | rVB  | 2731953 | 2339311 | 17.85% | 3.069% |
| 42 | 12.921 | 1839 | 1842 | 1844 | rBV2 | 196534  | 221385  | 1.69%  | 0.290% |
| 43 | 13.004 | 1851 | 1856 | 1858 | rBV3 | 459126  | 690358  | 5.27%  | 0.906% |
| 44 | 13.086 | 1867 | 1870 | 1872 | rVB  | 342911  | 305637  | 2.33%  | 0.401% |
| 45 | 13.233 | 1893 | 1895 | 1900 | rVB4 | 279785  | 297290  | 2.27%  | 0.390% |
| 46 | 13.333 | 1909 | 1912 | 1916 | rBV2 | 192961  | 198310  | 1.51%  | 0.260% |
| 47 | 13.751 | 1980 | 1983 | 1984 | rBV  | 317941  | 302336  | 2.31%  | 0.397% |
| 48 | 13.780 | 1984 | 1988 | 1991 | rVV2 | 1796786 | 1984158 | 15.14% | 2.603% |
| 49 | 13.810 | 1991 | 1993 | 1999 | rVB  | 324205  | 306038  | 2.34%  | 0.402% |
| 50 | 15.162 | 2220 | 2223 | 2226 | rVB  | 911275  | 915242  | 6.98%  | 1.201% |

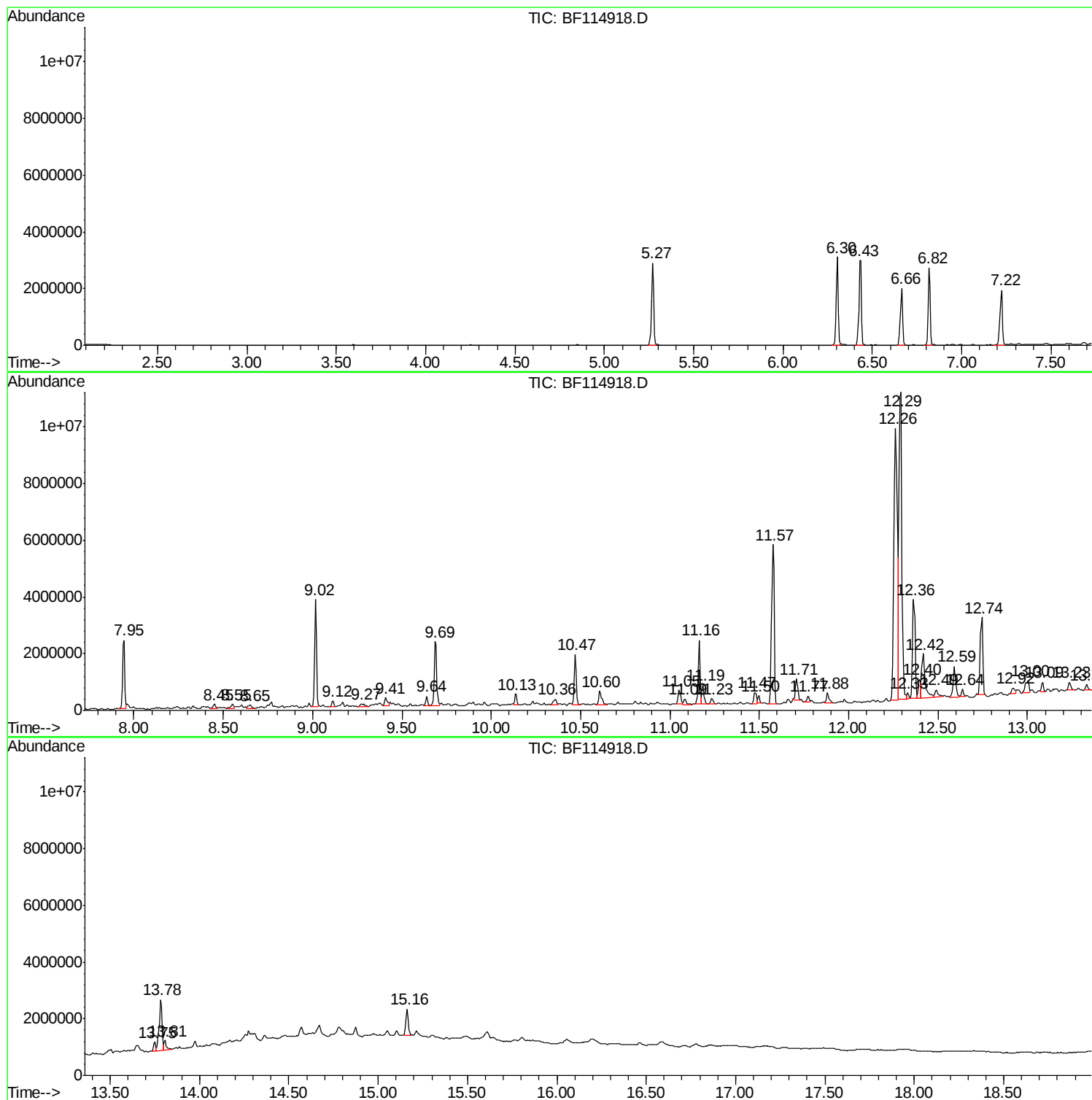
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Instrument :  
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ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

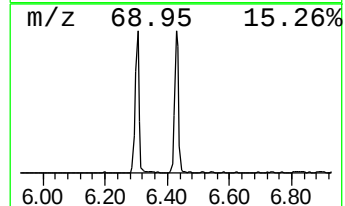
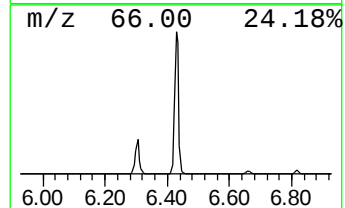
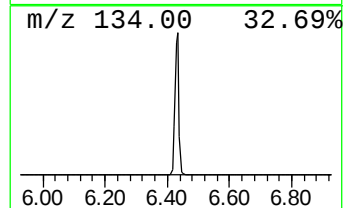
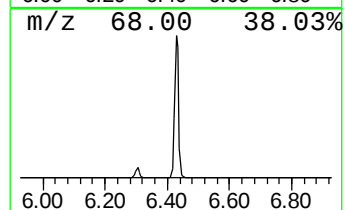
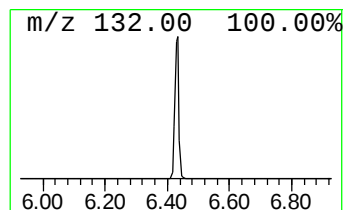
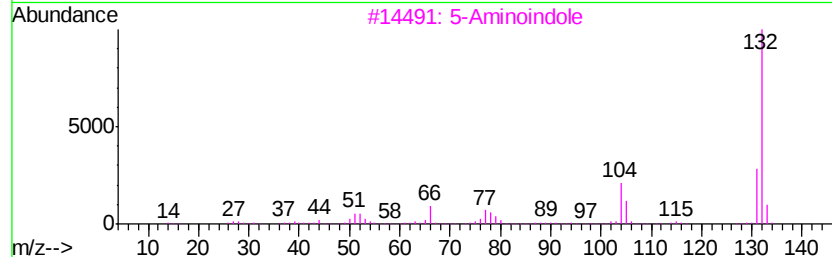
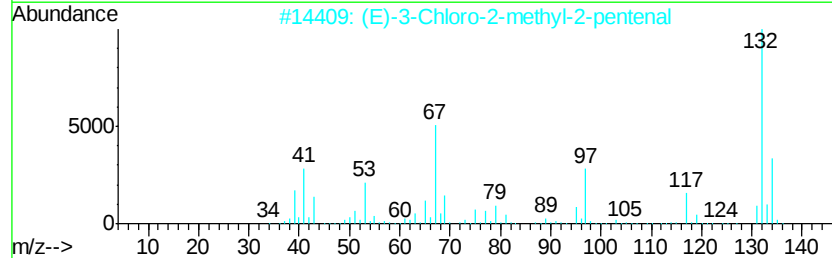
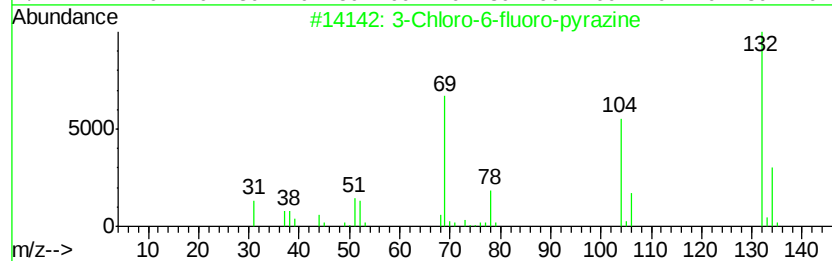
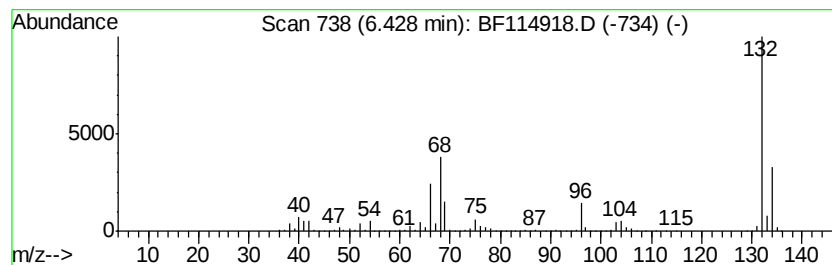
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.43 Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.43 | 34.72 ng | 2884430 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# | of               | Tentative ID               | MW  | MolForm   | CAS#         | Qual |
|------|------------------|----------------------------|-----|-----------|--------------|------|
| 1    | 3                | Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    | (E)-3            | Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    | 5                | Aminoindole                | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    | Tranylcypromine  | propionyl                  | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    | 2H-Cyclopenta[d] | pyridazine, 2-me...        | 132 | C8H8N2    | 022291-85-6  | 9    |



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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

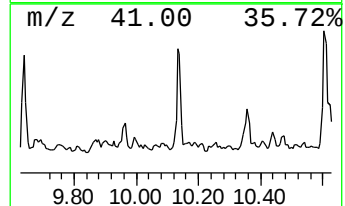
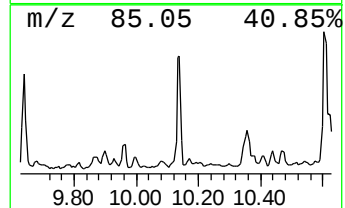
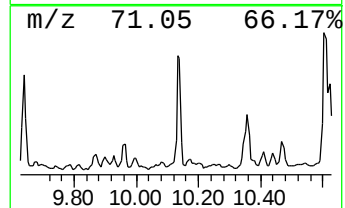
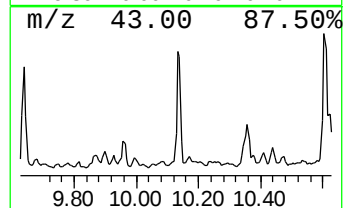
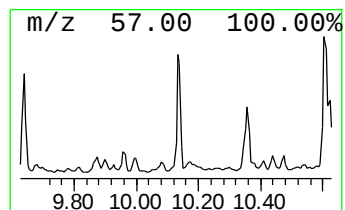
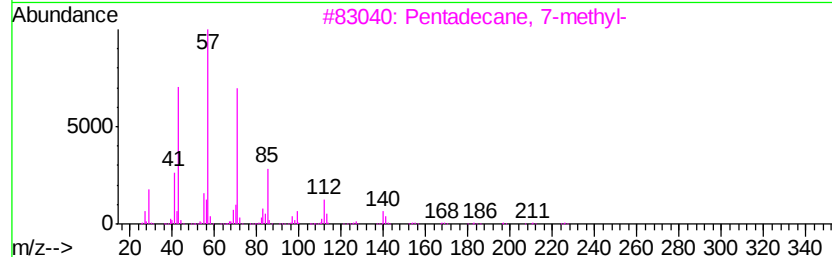
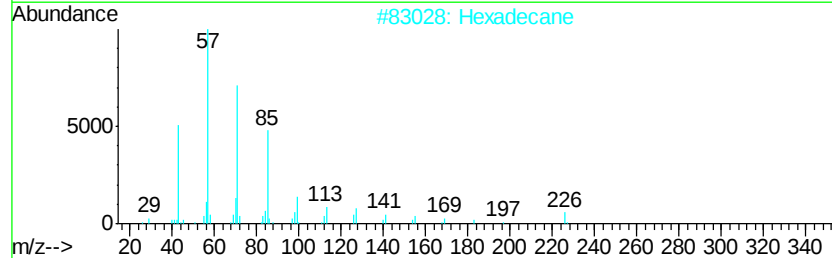
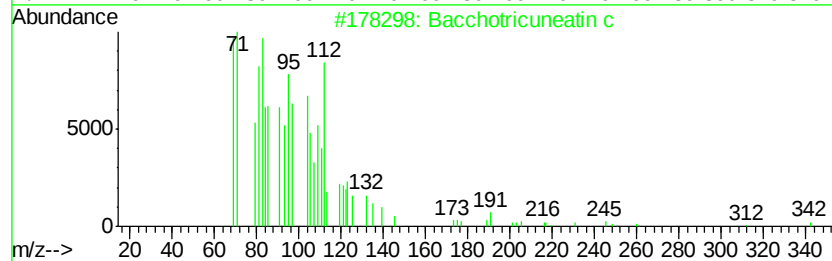
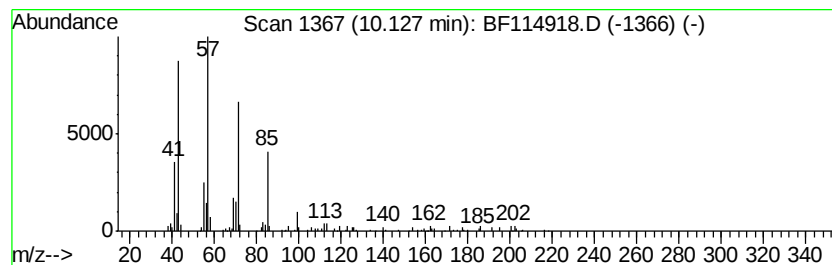
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Bacchotricuneatin c Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.13 | 2.90 ng | 321579 | Acenaphthene-d10 | 9.69 |

| Hit# of | 5 | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|---------|---|------------------------|-----|----------|-------------|------|
| 1       |   | Bacchotricuneatin c    | 342 | C20H22O5 | 066563-30-2 | 96   |
| 2       |   | Hexadecane             | 226 | C16H34   | 000544-76-3 | 90   |
| 3       |   | Pentadecane, 7-methyl- | 226 | C16H34   | 006165-40-8 | 81   |
| 4       |   | Dodecane, 4-methyl-    | 184 | C13H28   | 006117-97-1 | 76   |
| 5       |   | Decane, 3-bromo-       | 220 | C10H21Br | 030571-71-2 | 72   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

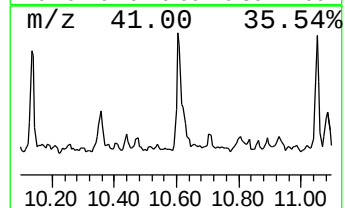
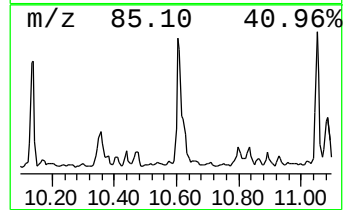
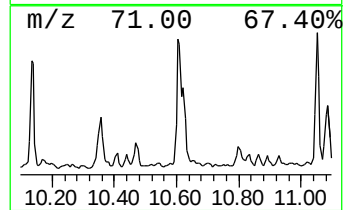
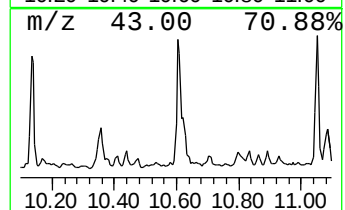
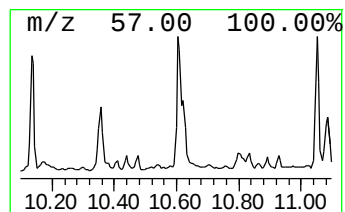
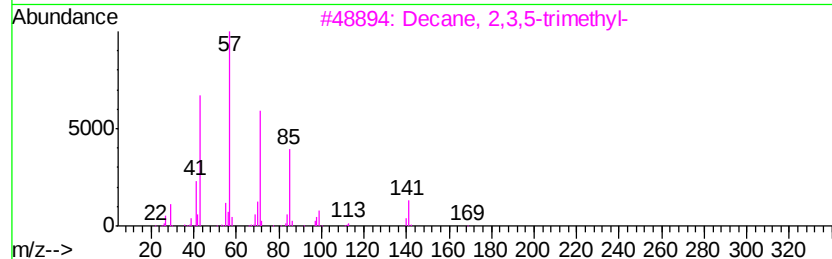
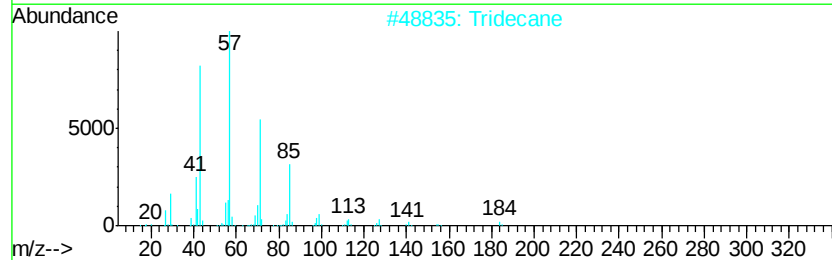
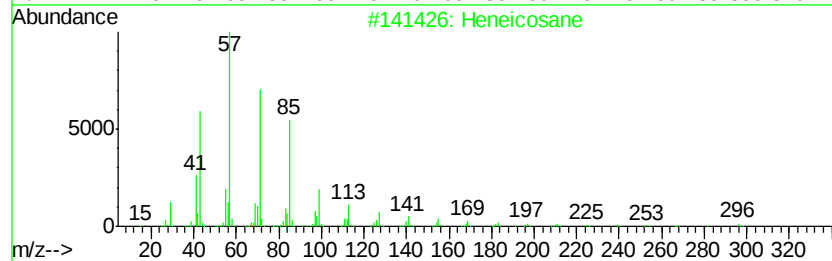
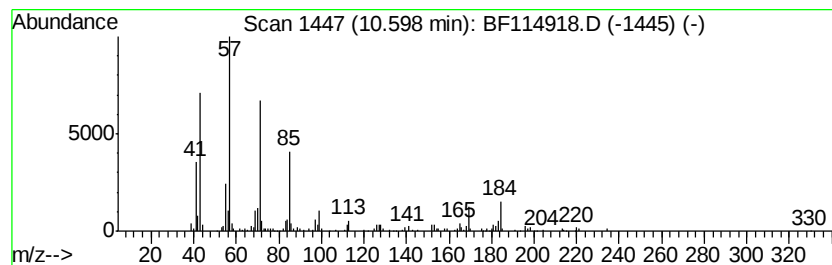
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Heneicosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.60 | 6.51 ng | 598275 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------------|-----|---------|-------------|------|
| 1         | Heneicosane              | 296 | C21H44  | 000629-94-7 | 87   |
| 2         | Tridecane                | 184 | C13H28  | 000629-50-5 | 86   |
| 3         | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 86   |
| 4         | Pentadecane              | 212 | C15H32  | 000629-62-9 | 86   |
| 5         | Tetradecane              | 198 | C14H30  | 000629-59-4 | 80   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

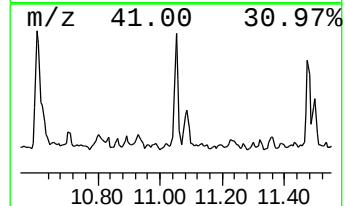
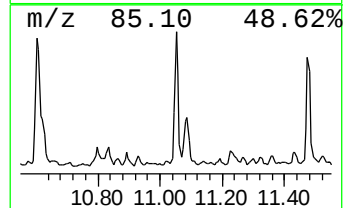
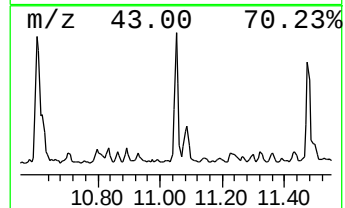
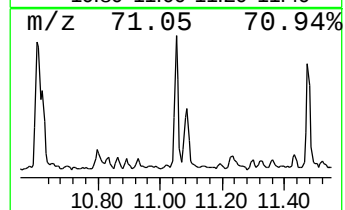
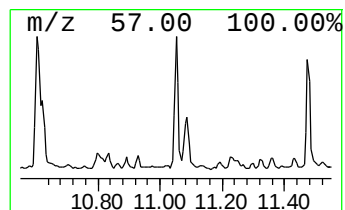
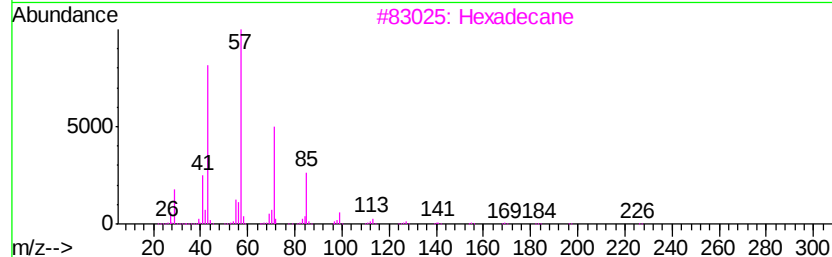
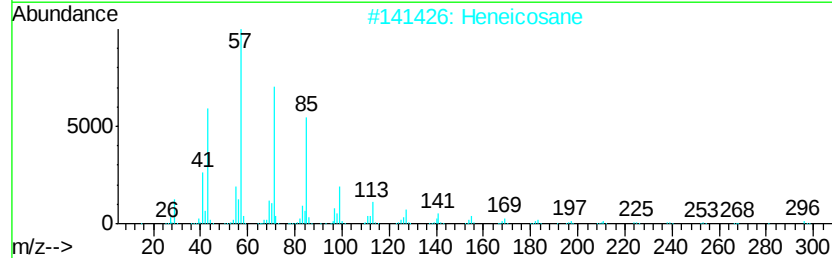
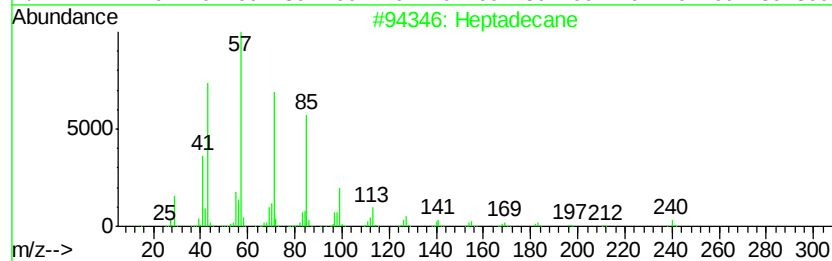
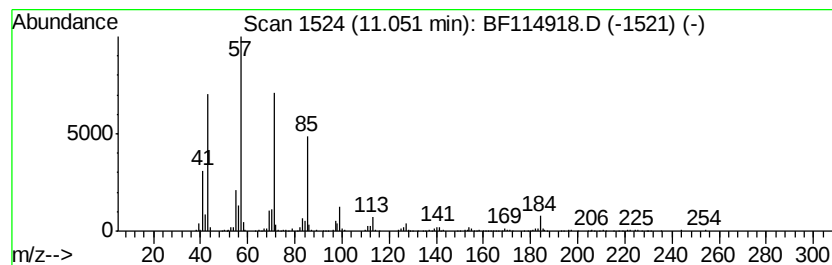
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.05 | 4.43 ng | 407224 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane        | 240 | C17H36  | 000629-78-7 | 91   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 90   |
| 4    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 90   |
| 5    |    | Pentadecane        | 212 | C15H32  | 000629-62-9 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

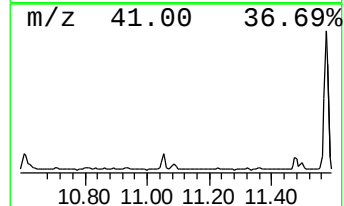
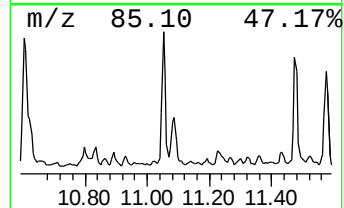
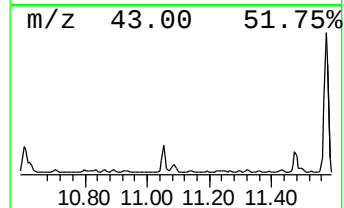
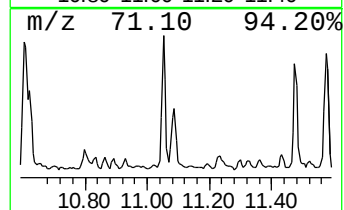
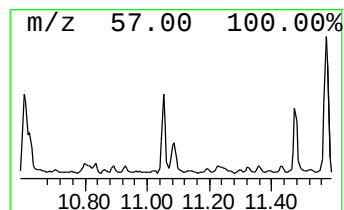
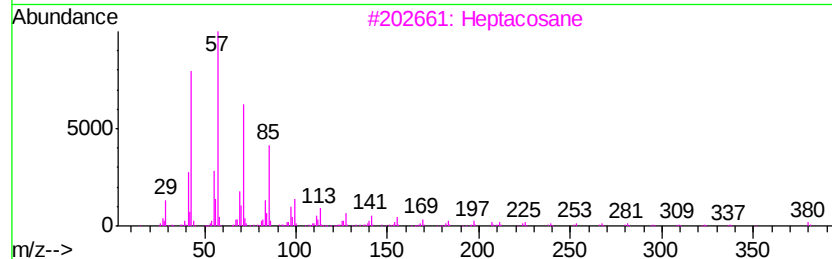
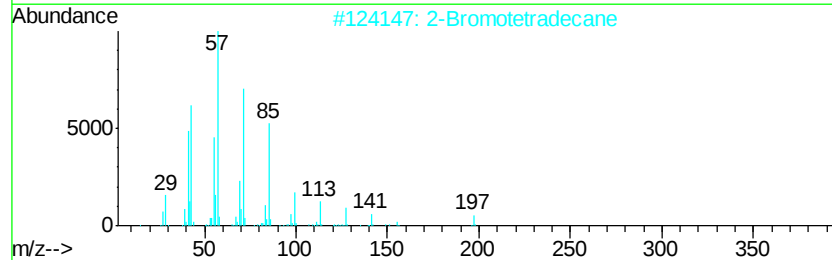
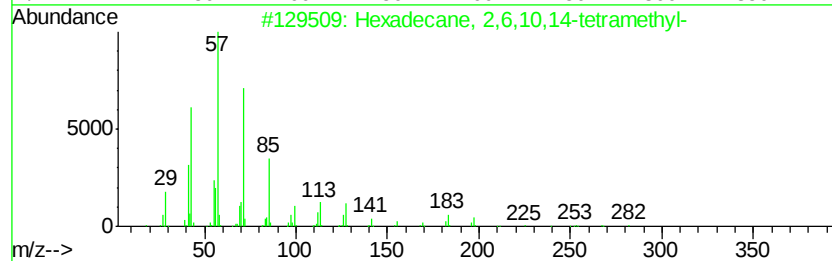
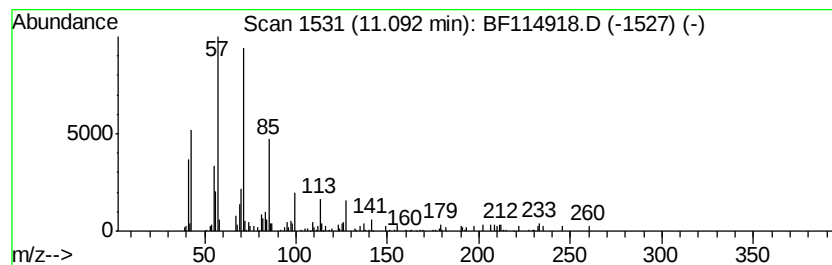
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Hexadecane, 2,6,10,14-tetra... Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.09 | 2.23 ng | 204908 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42   | 000638-36-8 | 90   |
| 2    |    | 2-Bromotetradecane                  | 276 | C14H29Br | 074036-95-6 | 90   |
| 3    |    | Heptacosane                         | 380 | C27H56   | 000593-49-7 | 90   |
| 4    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44   | 054833-48-6 | 86   |
| 5    |    | Tetradecane                         | 198 | C14H30   | 000629-59-4 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

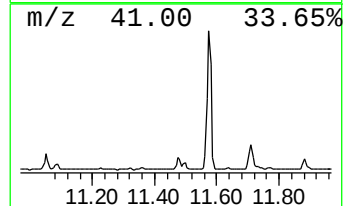
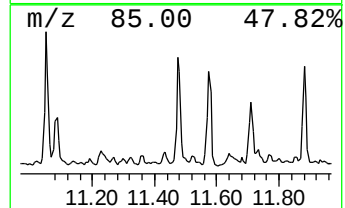
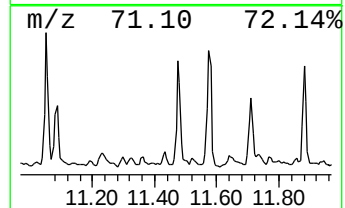
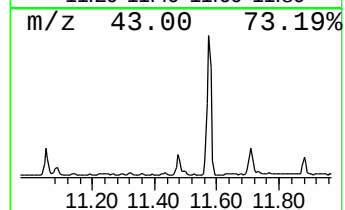
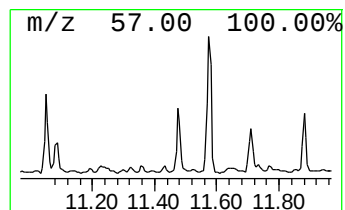
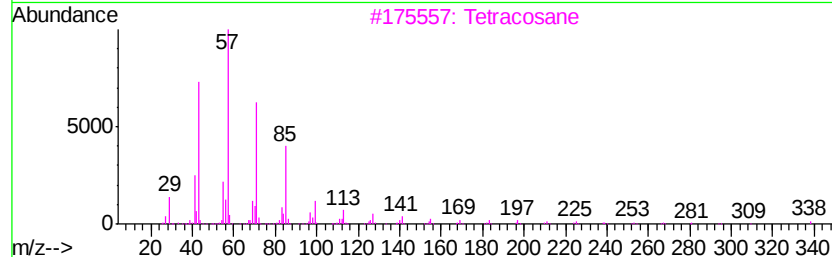
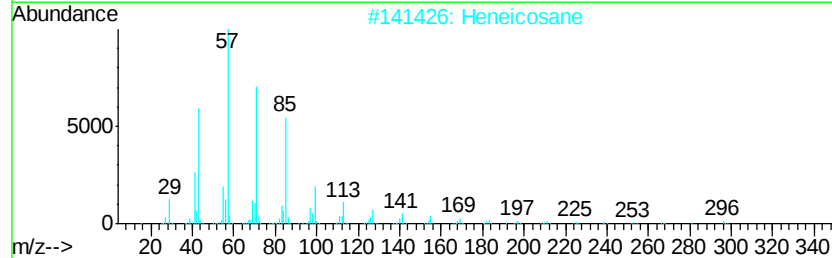
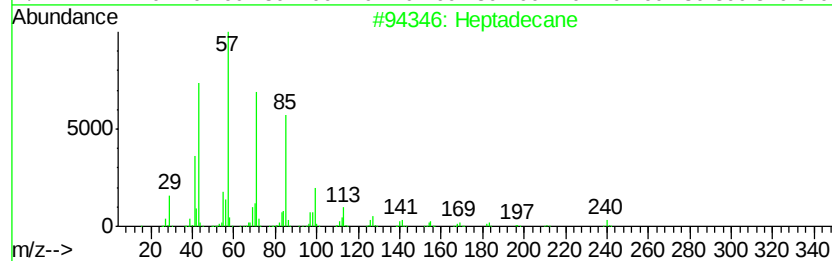
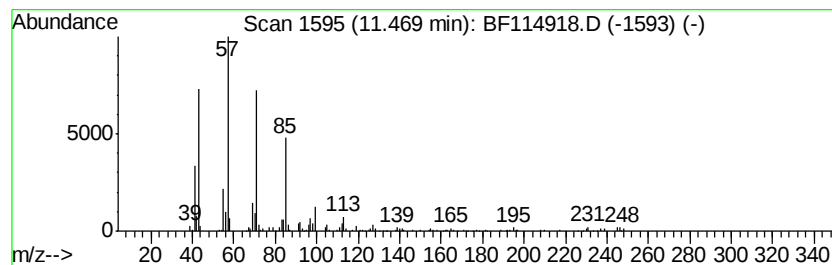
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Heptadecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.47 | 3.76 ng | 345473 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane  | 240 | C17H36  | 000629-78-7 | 91   |
| 2    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Nonadecane   | 268 | C19H40  | 000629-92-5 | 91   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

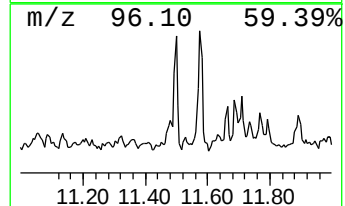
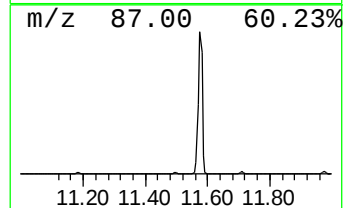
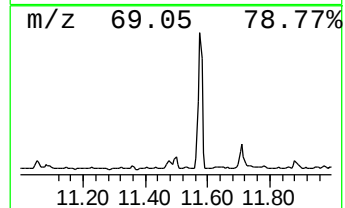
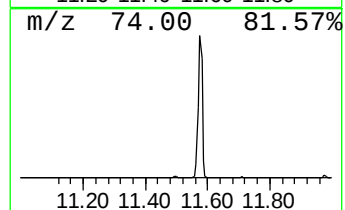
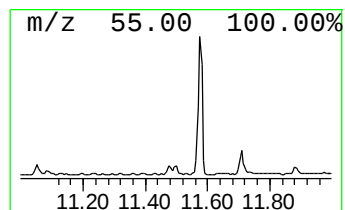
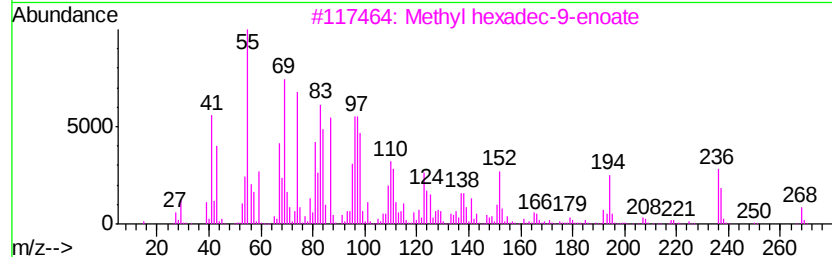
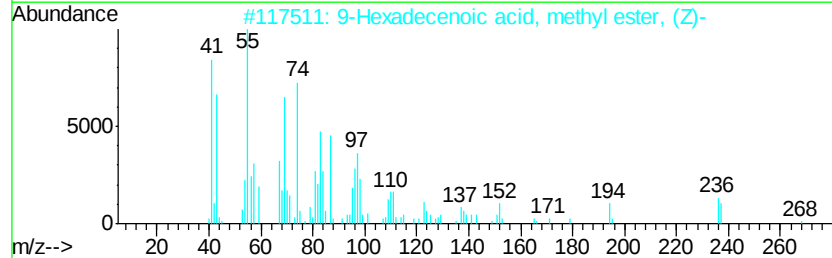
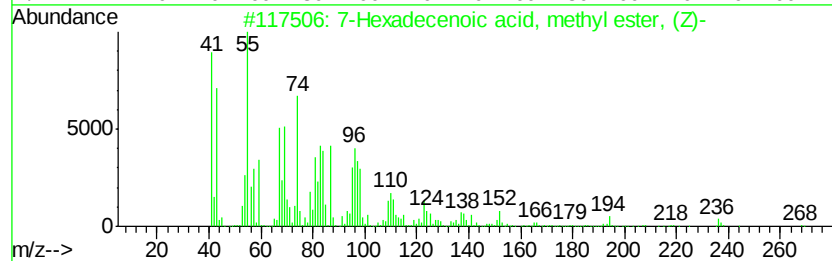
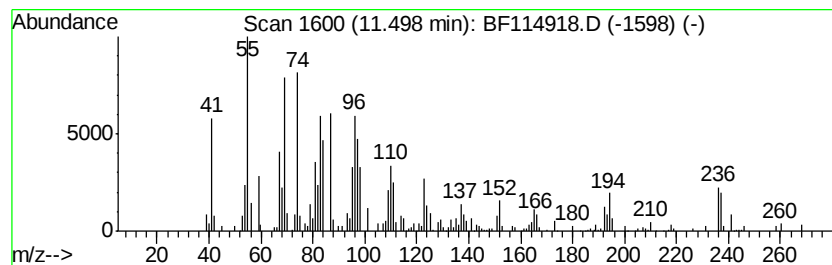
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 7-Hexadecenoic acid, methyl... Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.50 | 2.23 ng | 204927 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 7-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 056875-67-3  | 99   |
| 2    |    | 9-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 001120-25-8  | 98   |
| 3    |    | Methyl hexadec-9-enoate             | 268 | C17H32O2 | 010030-74-7  | 91   |
| 4    |    | 14-Methylpentadec-9-enoic acid m... | 268 | C17H32O2 | 1000365-89-7 | 87   |
| 5    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

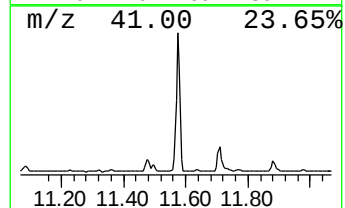
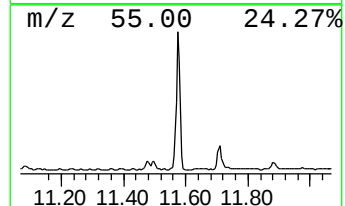
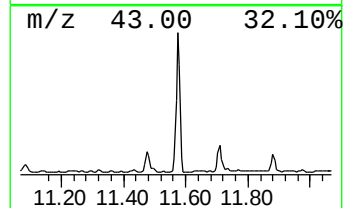
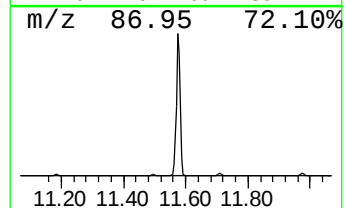
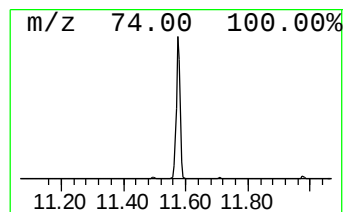
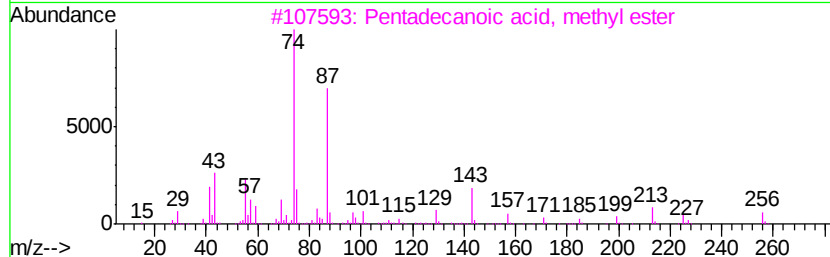
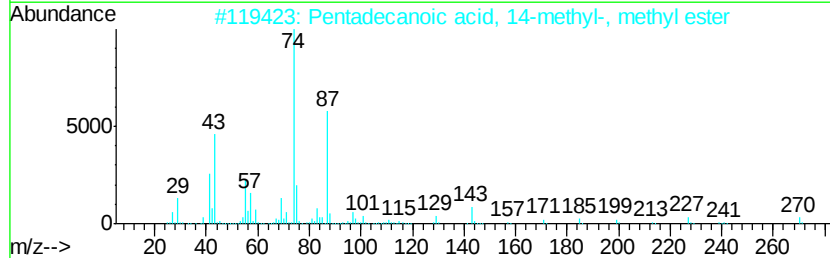
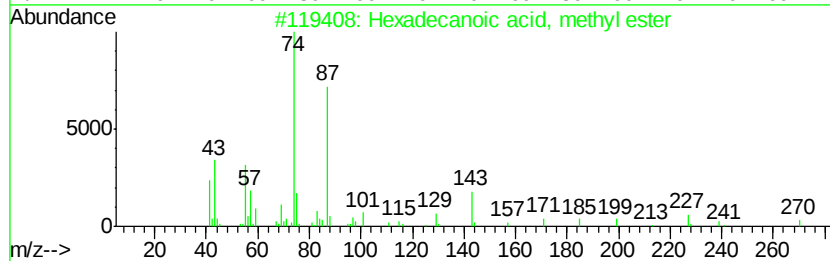
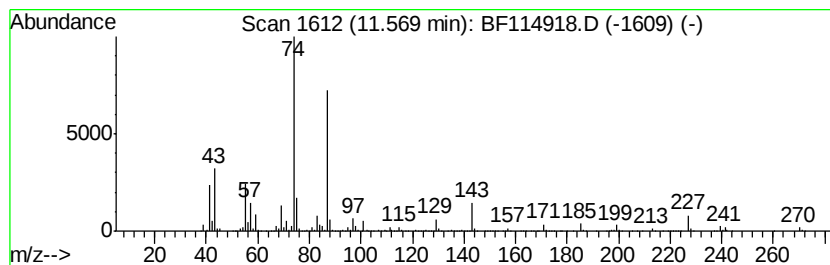
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.57 | 54.90 ng | 5044650 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 96   |
| 3    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |
| 4    |    | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 83   |
| 5    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

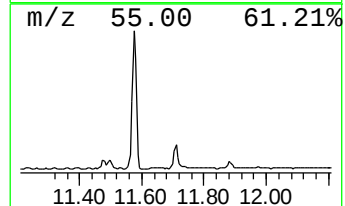
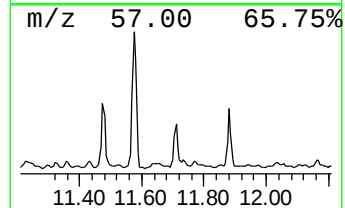
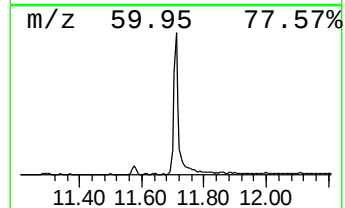
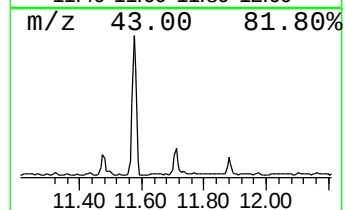
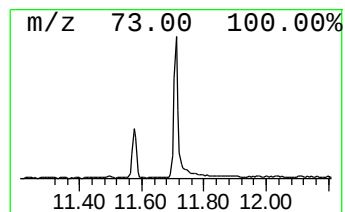
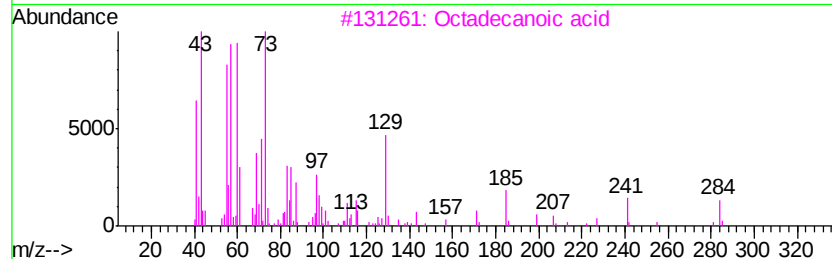
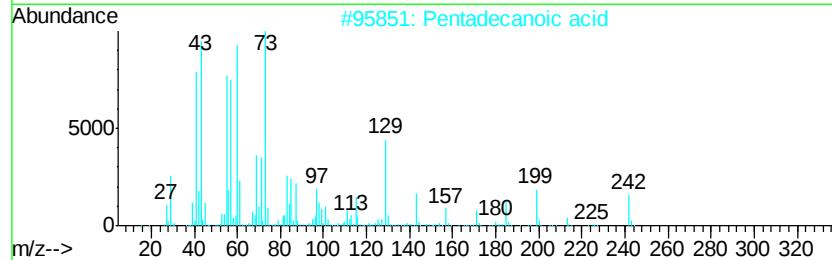
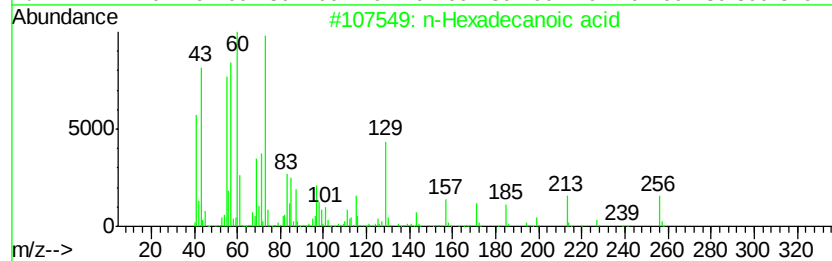
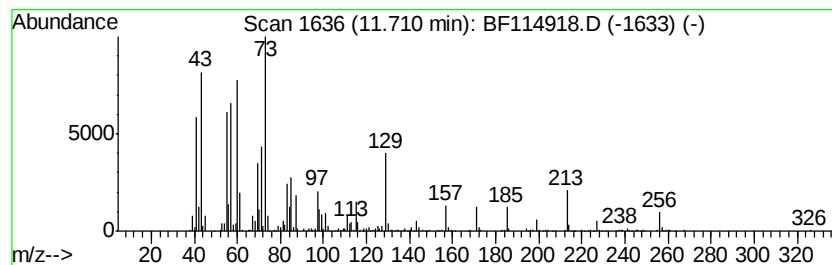
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 n-Hexadecanoic acid Concentration Rank 8

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.71     | 6.48 ng             | 595449 | Phenanthrene-d10 |             | 11.16 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99    |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 90    |
| 3         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 87    |
| 4         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 76    |
| 5         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

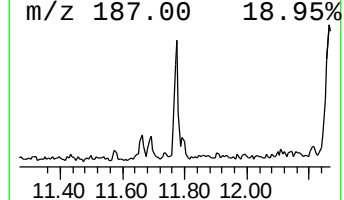
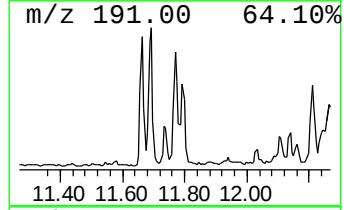
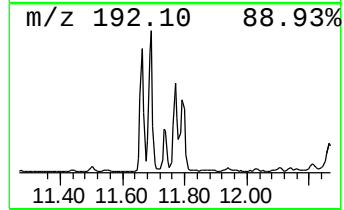
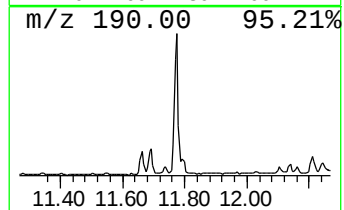
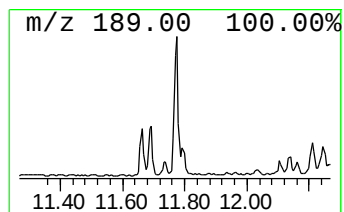
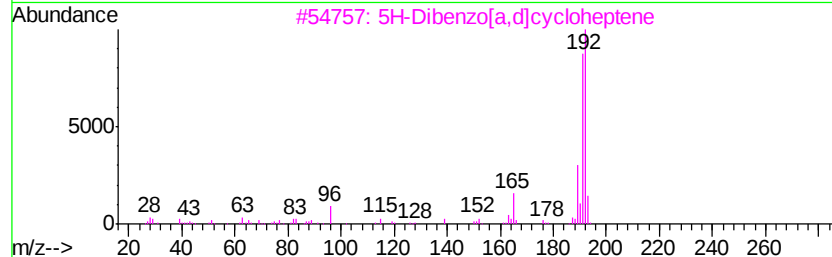
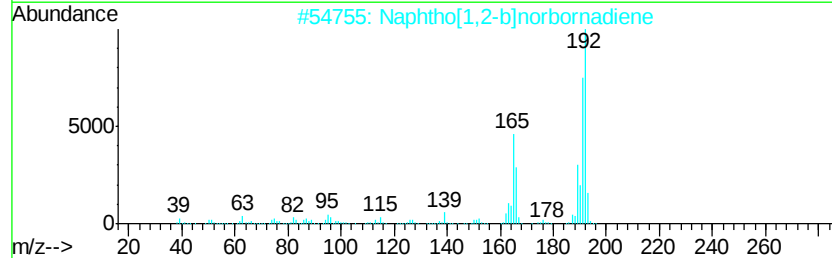
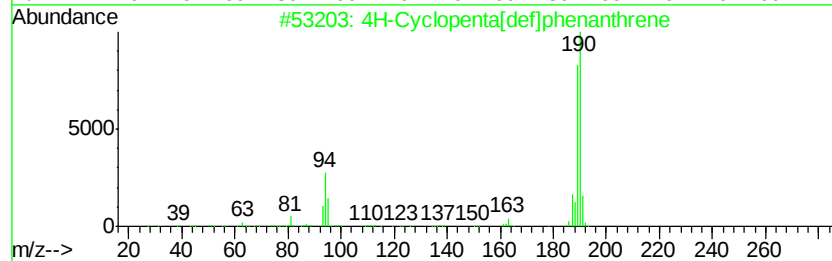
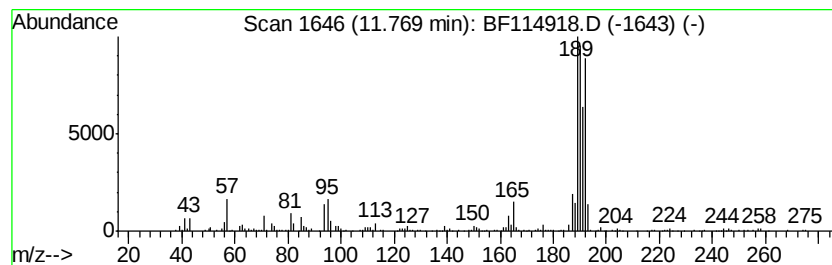
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.77 | 2.44 ng | 223843 | Phenanthrene-d10 | 11.16 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------|-----|---------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5  | 91   |
| 2    |    | Naphtho[1,2-b]norbornadiene    | 192 | C15H12  | 1000210-14-8 | 46   |
| 3    |    | 5H-Dibenzo[a,d]cycloheptene    | 192 | C15H12  | 000256-81-5  | 46   |
| 4    |    | Anthracene, 2-methyl-          | 192 | C15H12  | 000613-12-7  | 43   |
| 5    |    | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4  | 41   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

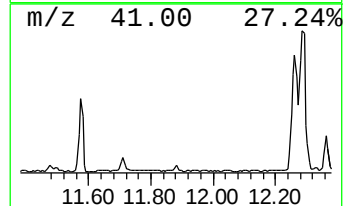
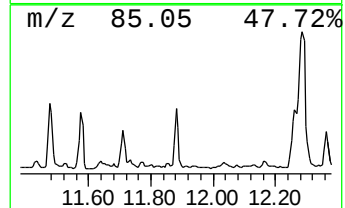
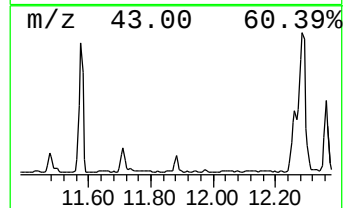
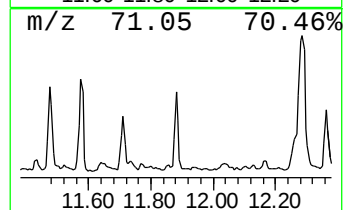
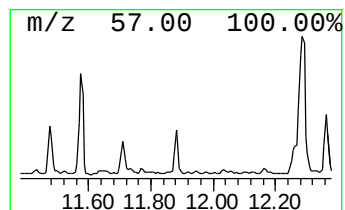
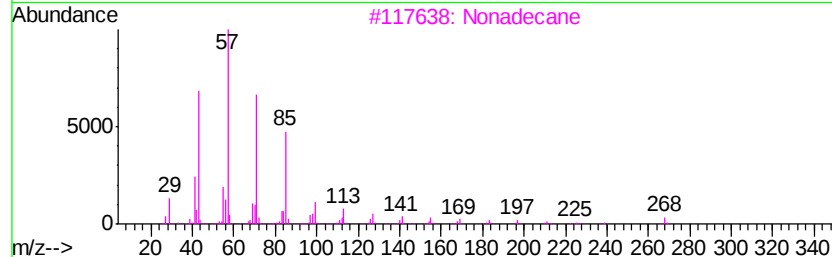
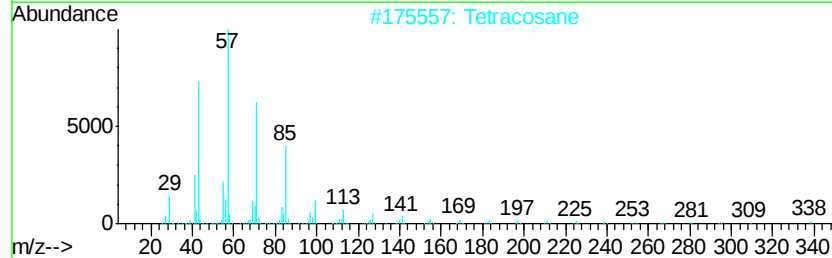
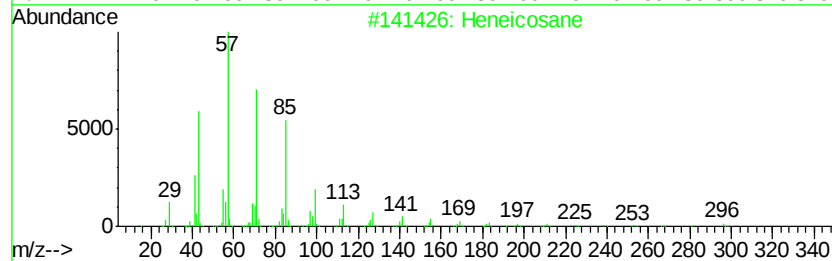
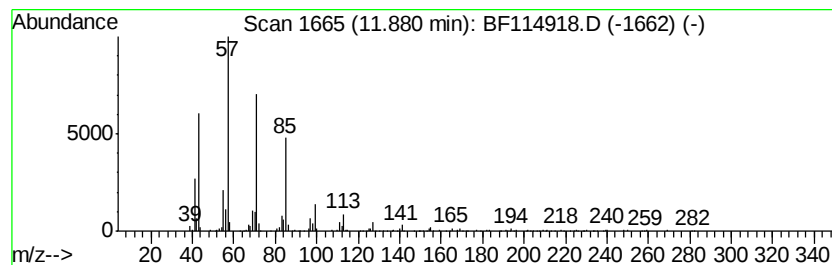
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Heneicosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.88 | 3.79 ng | 348056 | Phenanthrene-d10 | 11.16 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heneicosane                    | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    |   | Tetracosane                    | 338 | C24H50  | 000646-31-1 | 91   |
| 3    |    |   | Nonadecane                     | 268 | C19H40  | 000629-92-5 | 91   |
| 4    |    |   | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 90   |
| 5    |    |   | Hexadecane                     | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

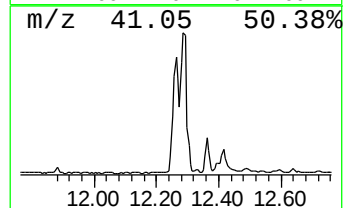
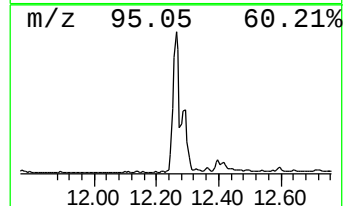
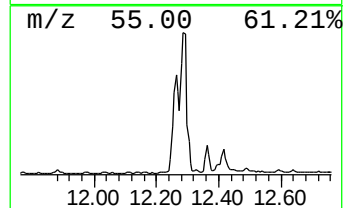
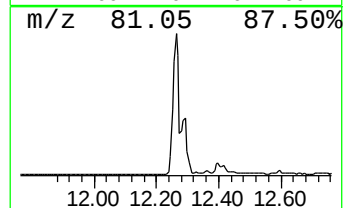
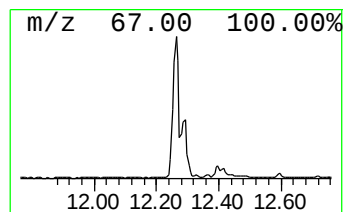
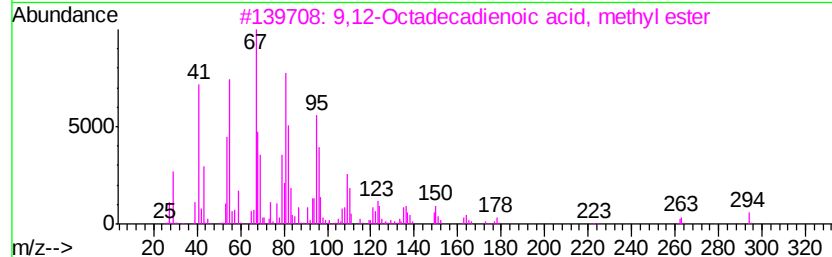
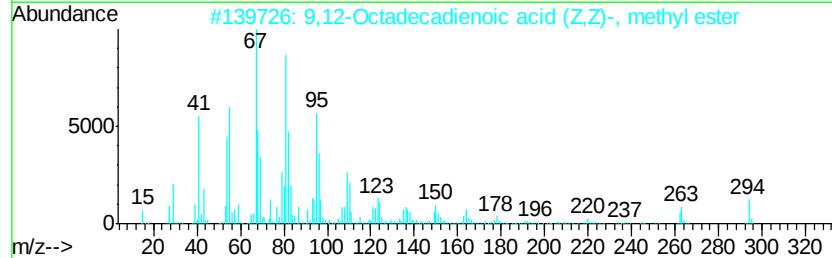
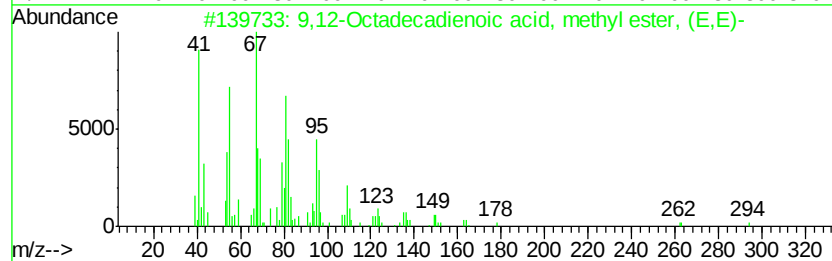
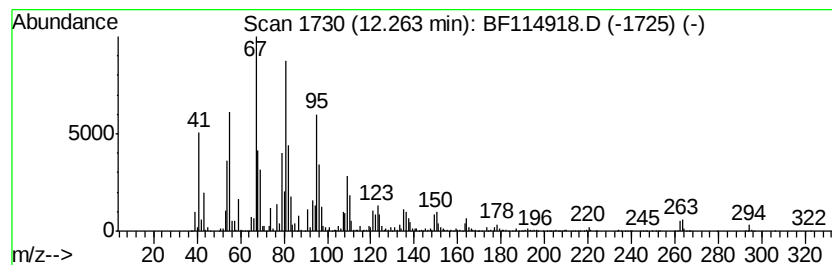
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 9,12-Octadecadienoic acid, ... Concentration Rank 2

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.26 | 140.34 ng | 12895200 | Phenanthrene-d10 | 11.16 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

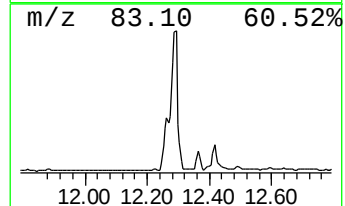
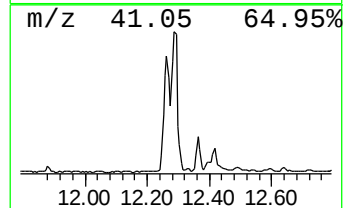
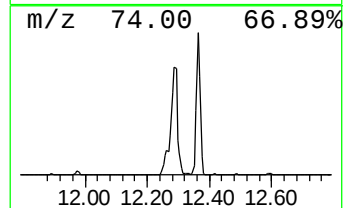
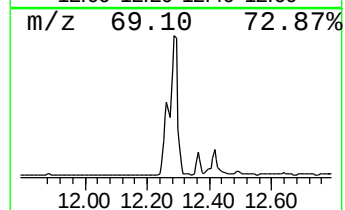
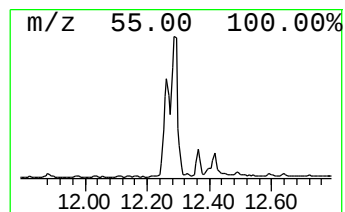
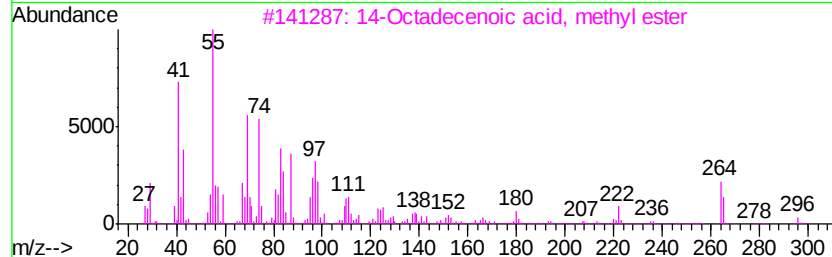
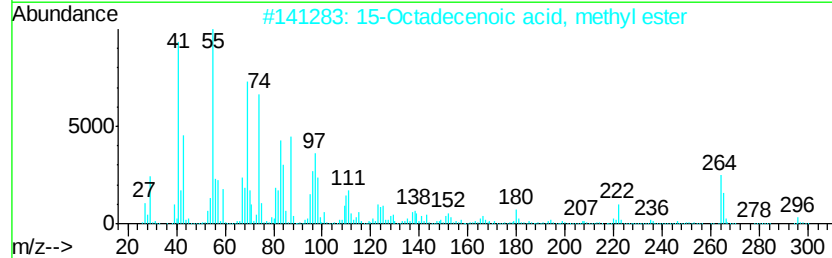
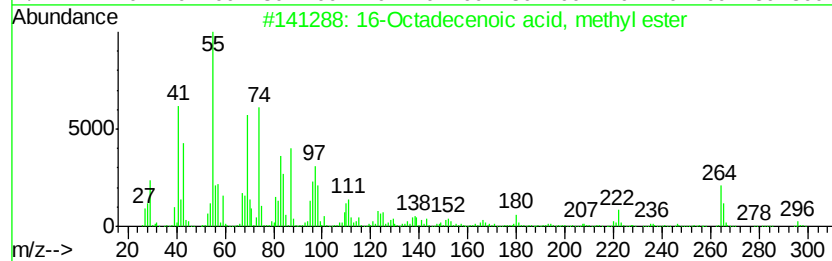
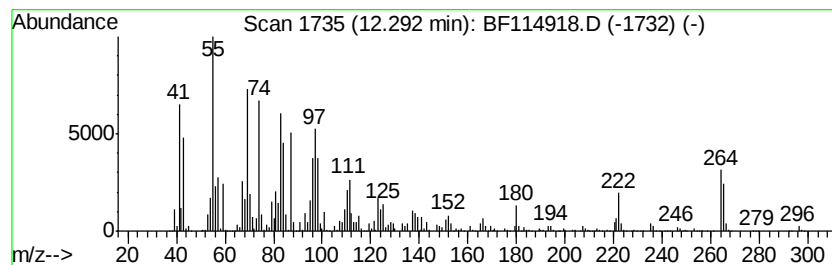
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 16-Octadecenoic acid, methyl... Concentration Rank 1

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 12.29 | 142.64 ng | 13106400 | Phenanthrene-d10 | 11.16 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 2    |    |   | 15-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 004764-72-1 | 98   |
| 3    |    |   | 14-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-48-4 | 95   |
| 4    |    |   | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 95   |
| 5    |    |   | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

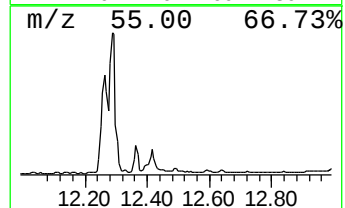
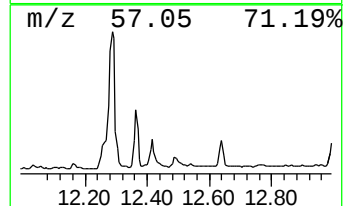
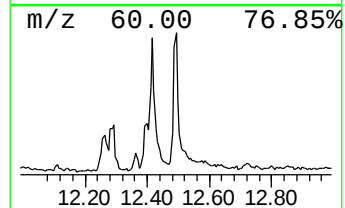
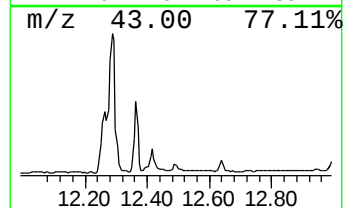
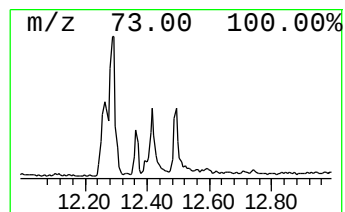
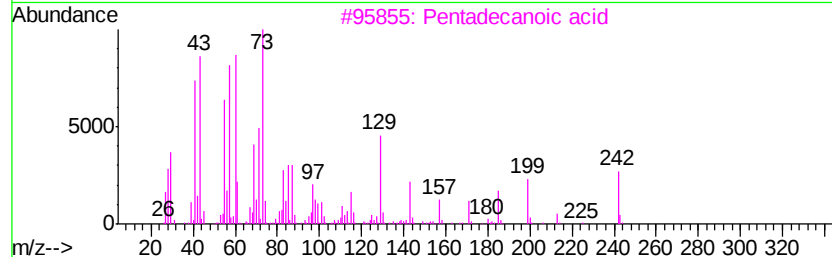
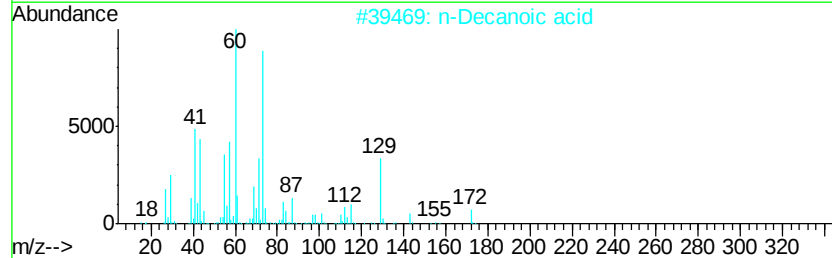
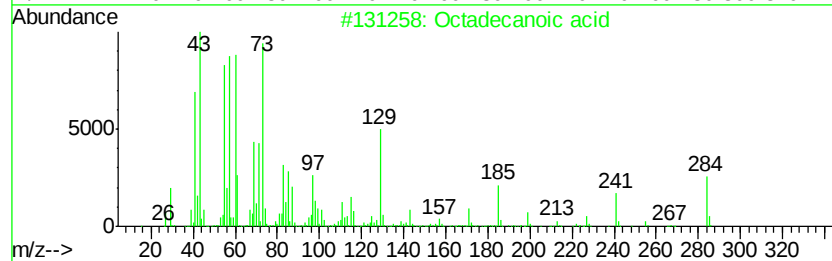
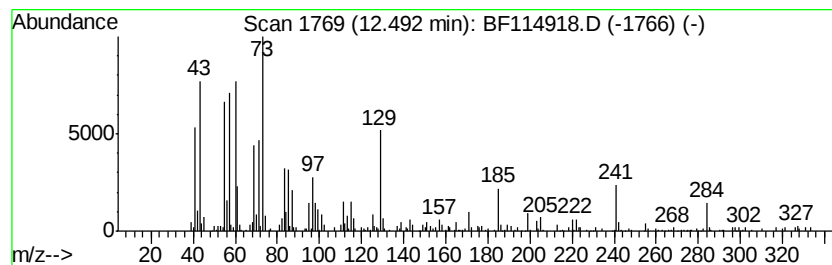
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Octadecanoic acid Concentration Rank 14

| R.T.    | EstConc | Area                | Relative to ISTD | R.T.           |
|---------|---------|---------------------|------------------|----------------|
| 12.49   | 2.98 ng | 295233              | Chrysene-d12     | 13.78          |
| Hit# of | 5       | Tentative ID        | MW MolForm       | CAS# Qual      |
| 1       |         | Octadecanoic acid   | 284 C18H36O2     | 000057-11-4 99 |
| 2       |         | n-Decanoic acid     | 172 C10H20O2     | 000334-48-5 70 |
| 3       |         | Pentadecanoic acid  | 242 C15H30O2     | 001002-84-2 68 |
| 4       |         | Tetradecanoic acid  | 228 C14H28O2     | 000544-63-8 53 |
| 5       |         | n-Hexadecanoic acid | 256 C16H32O2     | 000057-10-3 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

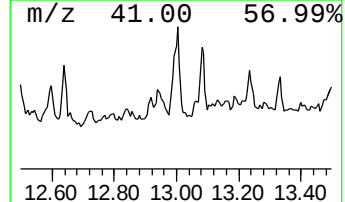
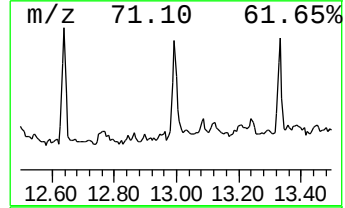
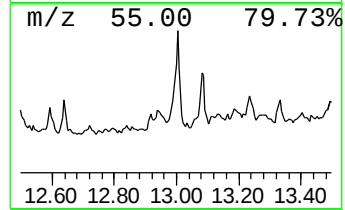
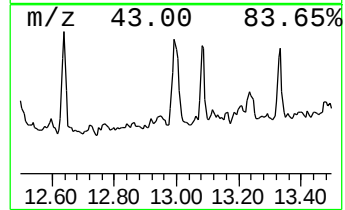
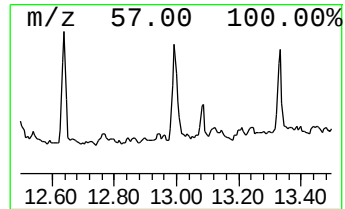
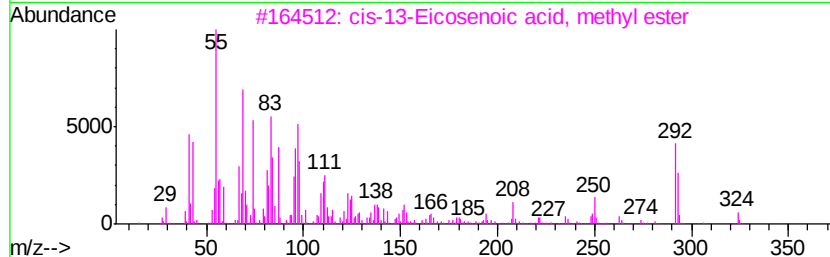
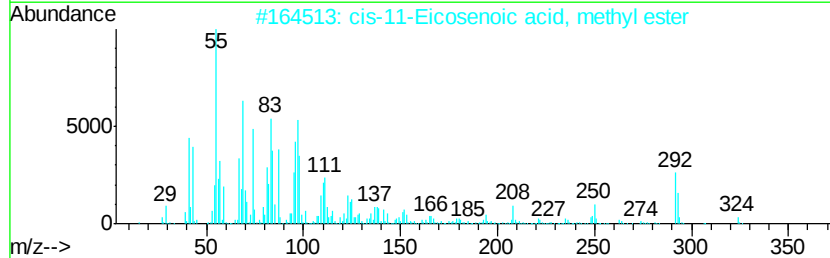
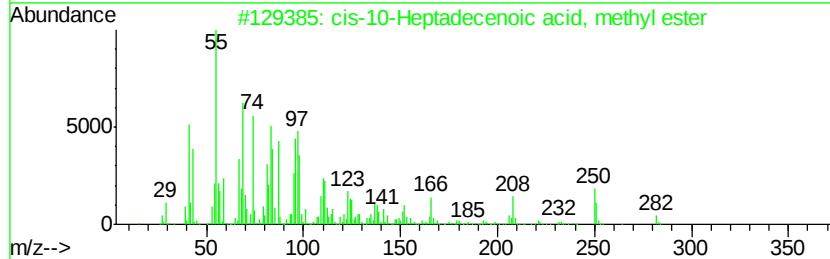
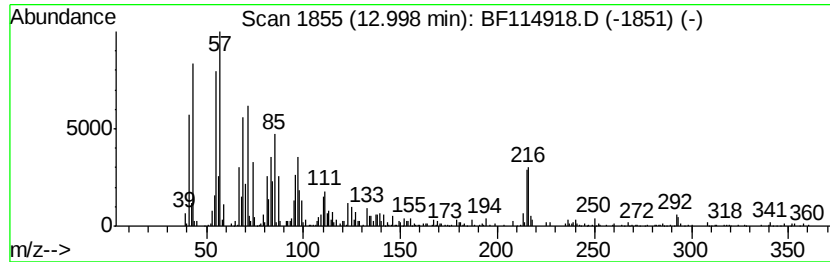
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 17 cis-10-Heptadecenoic acid, ... Concentration Rank 6

| R.T.    | EstConc | Area                                | Relative to ISTD |          | R.T.         |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 13.00   | 6.96 ng | 690358                              | Chrysene-d12     |          | 13.78        |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | cis-10-Heptadecenoic acid, methy... | 282              | C18H34O2 | 1000333-62-1 | 94   |
| 2       |         | cis-11-Eicosenoic acid, methyl e... | 324              | C21H40O2 | 1000333-63-8 | 94   |
| 3       |         | cis-13-Eicosenoic acid, methyl e... | 324              | C21H40O2 | 1000333-52-1 | 91   |
| 4       |         | 11-Eicosenoic acid, methyl ester    | 324              | C21H40O2 | 003946-08-5  | 90   |
| 5       |         | Z-7-Tetradecenoic acid              | 226              | C14H26O2 | 1000130-98-4 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

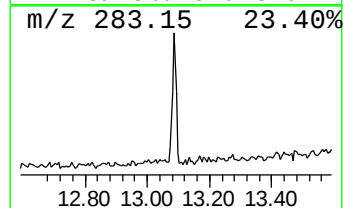
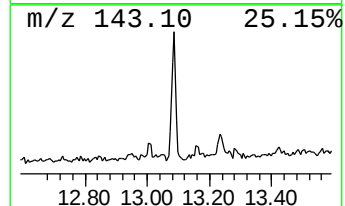
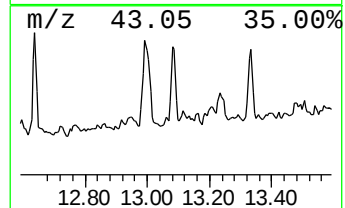
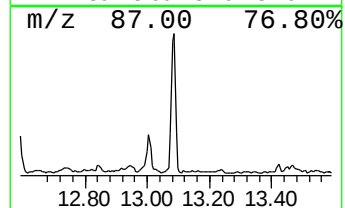
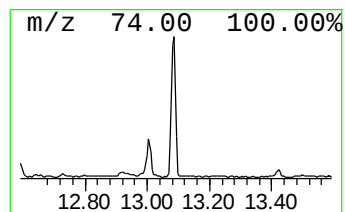
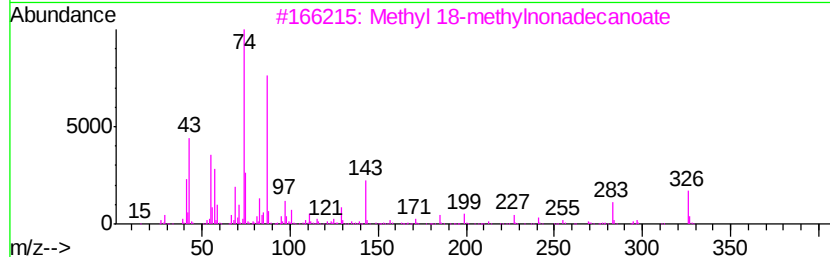
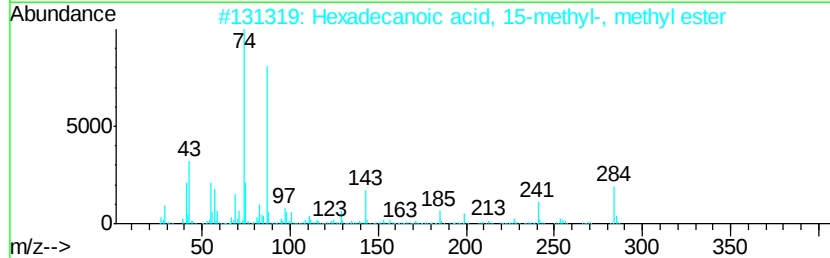
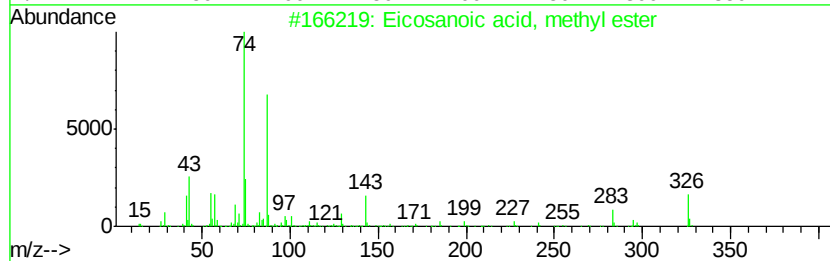
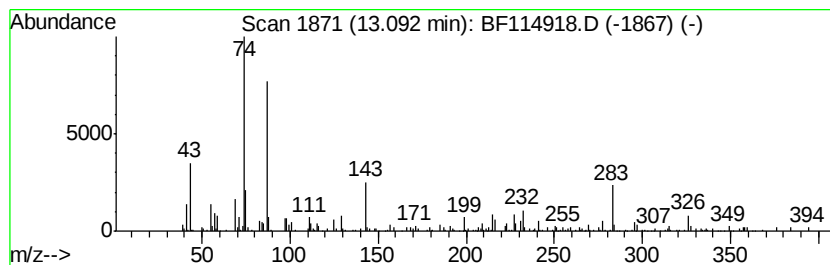
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Eicosanoic acid, methyl ester Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.09 | 3.08 ng | 305637 | Chrysene-d12     | 13.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Eicosanoic acid, methyl ester       | 326 | C21H42O2 | 001120-28-1  | 95   |
| 2    |    | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0  | 91   |
| 3    |    | Methyl 18-methylnonadecanoate       | 326 | C21H42O2 | 1000352-20-6 | 90   |
| 4    |    | Heptadecanoic acid, methyl ester    | 284 | C18H36O2 | 001731-92-6  | 87   |
| 5    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
Data File : BF114918.D  
Acq On : 8 Jun 2019 4:04  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

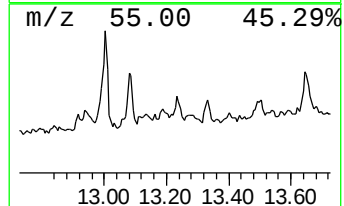
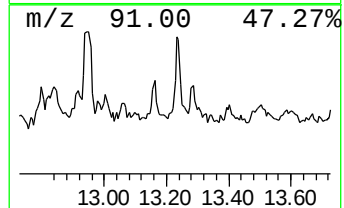
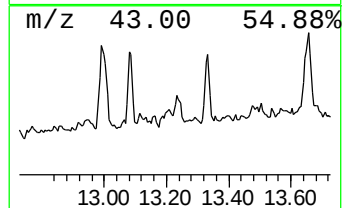
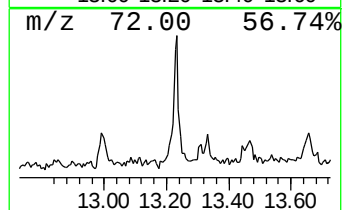
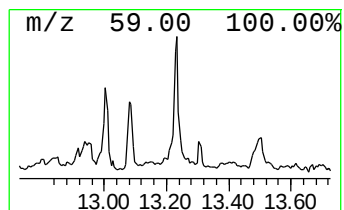
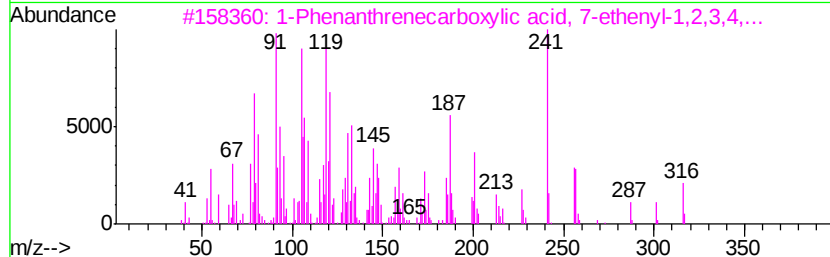
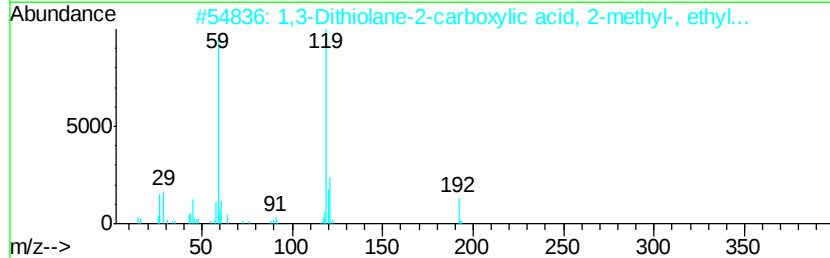
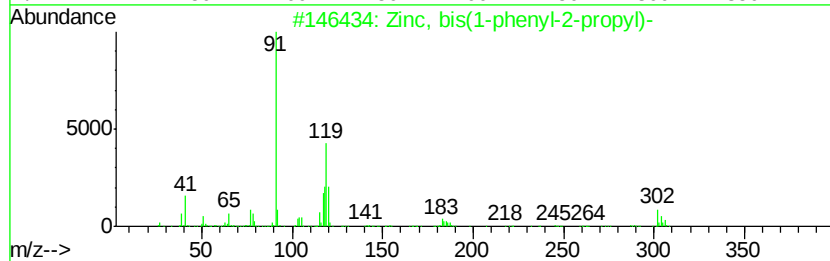
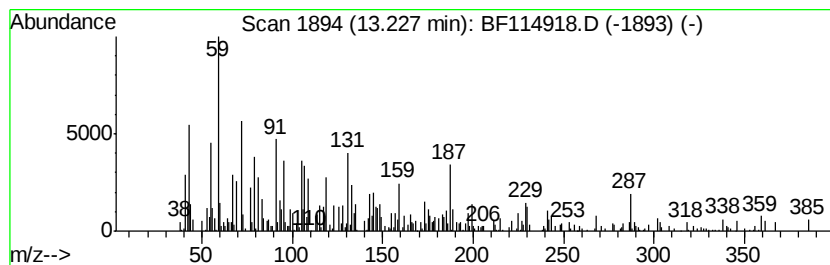
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 unknown13.23 Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.23 | 3.00 ng | 297290 | Chrysene-d12     | 13.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Zinc, bis(1-phenyl-2-propyl)-       | 302 | C18H22Zn   | 1000149-24-0 | 25   |
| 2    |    | 1,3-Dithiolane-2-carboxylic acid... | 192 | C7H12O2S2  | 076339-59-8  | 14   |
| 3    |    | 1-Phenanthrenecarboxylic acid, 7... | 316 | C21H32O2   | 001686-62-0  | 12   |
| 4    |    | 2,2-Dimethylthio-N-salicylidene...  | 241 | C11H15NOS2 | 057270-49-2  | 10   |
| 5    |    | Decanedioic acid, dibutyl ester     | 314 | C18H34O4   | 000109-43-3  | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF060719\  
 Data File : BF114918.D  
 Acq On : 8 Jun 2019 4:04  
 Operator : HP/JU  
 Sample : K3160-05 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-060619-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF060419.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 |
| unknown6.43          | 6.43  | 34.7    | ng    | 2884430  | 1                     | 6.66  | 1661540 | 20.0 |
| Bacchotricuneatin c  | 10.13 | 2.9     | ng    | 321579   | 3                     | 9.69  | 2215810 | 20.0 |
| Heneicosane          | 10.60 | 6.5     | ng    | 598275   | 4                     | 11.16 | 1837740 | 20.0 |
| Heptadecane          | 11.05 | 4.4     | ng    | 407224   | 4                     | 11.16 | 1837740 | 20.0 |
| Hexadecane, 2,6,1... | 11.09 | 2.2     | ng    | 204908   | 4                     | 11.16 | 1837740 | 20.0 |
| Heptadecane          | 11.47 | 3.8     | ng    | 345473   | 4                     | 11.16 | 1837740 | 20.0 |
| 7-Hexadecenoic ac... | 11.50 | 2.2     | ng    | 204927   | 4                     | 11.16 | 1837740 | 20.0 |
| Hexadecanoic acid... | 11.57 | 54.9    | ng    | 5044650  | 4                     | 11.16 | 1837740 | 20.0 |
| n-Hexadecanoic acid  | 11.71 | 6.5     | ng    | 595449   | 4                     | 11.16 | 1837740 | 20.0 |
| 4H-Cyclopenta[def... | 11.77 | 2.4     | ng    | 223843   | 4                     | 11.16 | 1837740 | 20.0 |
| Heneicosane          | 11.88 | 3.8     | ng    | 348056   | 4                     | 11.16 | 1837740 | 20.0 |
| 9,12-Octadecadien... | 12.26 | 140.3   | ng    | 12895200 | 4                     | 11.16 | 1837740 | 20.0 |
| 16-Octadecenoic a... | 12.29 | 142.6   | ng    | 13106400 | 4                     | 11.16 | 1837740 | 20.0 |
| Octadecanoic acid    | 12.49 | 3.0     | ng    | 295233   | 5                     | 13.78 | 1984160 | 20.0 |
| cis-10-Heptadecen... | 13.00 | 7.0     | ng    | 690358   | 5                     | 13.78 | 1984160 | 20.0 |
| Eicosanoic acid, ... | 13.09 | 3.1     | ng    | 305637   | 5                     | 13.78 | 1984160 | 20.0 |
| unknown13.23         | 13.23 | 3.0     | ng    | 297290   | 5                     | 13.78 | 1984160 | 20.0 |