

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
 Data File : BF135145.D  
 Acq On : 07 Sep 2023 21:20  
 Operator : CG\JU  
 Sample : 04221-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AU-5-082923

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-BF083023.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF135145.D\data.ms

| 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         | 5.404       | 560           | 564         | 567          | rBV      | 2318595        | 2060950       | 14.64%          | 3.667%        |
| 2         | 6.416       | 731           | 736         | 748          | rBV      | 2017599        | 2049550       | 14.56%          | 3.647%        |
| 3         | 6.769       | 793           | 796         | 800          | rBV      | 776145         | 630748        | 4.48%           | 1.122%        |
| 4         | 7.334       | 888           | 892         | 895          | rBV      | 1469527        | 1253409       | 8.91%           | 2.230%        |
| 5         | 8.051       | 1008          | 1014        | 1017         | rBV      | 990509         | 909740        | 6.46%           | 1.619%        |
| 6         | 8.645       | 1111          | 1115        | 1118         | rBV3     | 226127         | 202765        | 1.44%           | 0.361%        |
| 7         | 9.128       | 1193          | 1197        | 1201         | rBV      | 2228765        | 2071163       | 14.72%          | 3.685%        |
| 8         | 9.210       | 1207          | 1211        | 1215         | rBV      | 293687         | 302486        | 2.15%           | 0.538%        |
| 9         | 9.533       | 1261          | 1266        | 1268         | rBV3     | 208586         | 236675        | 1.68%           | 0.421%        |
| 10        | 9.745       | 1299          | 1302        | 1306         | rVB      | 387314         | 298333        | 2.12%           | 0.531%        |
| 11        | 9.810       | 1309          | 1313        | 1316         | rVB      | 904354         | 758715        | 5.39%           | 1.350%        |
| 12        | 10.245      | 1384          | 1387        | 1390         | rBV      | 409734         | 299923        | 2.13%           | 0.534%        |
| 13        | 10.469      | 1419          | 1425        | 1431         | rBV      | 184181         | 260673        | 1.85%           | 0.464%        |
| 14        | 10.598      | 1442          | 1447        | 1451         | rBV      | 1153500        | 1055389       | 7.50%           | 1.878%        |
| 15        | 10.722      | 1465          | 1468        | 1476         | rVB      | 454500         | 509292        | 3.62%           | 0.906%        |
| 16        | 11.169      | 1541          | 1544        | 1547         | rBV      | 299560         | 276837        | 1.97%           | 0.493%        |
| 17        | 11.198      | 1547          | 1549        | 1554         | rVB2     | 175095         | 196673        | 1.40%           | 0.350%        |
| 18        | 11.298      | 1563          | 1566        | 1569         | rBV      | 659082         | 606278        | 4.31%           | 1.079%        |
| 19        | 11.322      | 1569          | 1570        | 1573         | rVB      | 258666         | 192675        | 1.37%           | 0.343%        |
| 20        | 11.604      | 1615          | 1618        | 1620         | rBV      | 258793         | 217983        | 1.55%           | 0.388%        |
| 21        | 11.710      | 1632          | 1636        | 1639         | rBV      | 4944283        | 4313422       | 30.65%          | 7.674%        |
| 22        | 11.851      | 1655          | 1660        | 1666         | rBV2     | 1205784        | 1354157       | 9.62%           | 2.409%        |
| 23        | 12.010      | 1684          | 1687        | 1693         | rVB      | 207497         | 231148        | 1.64%           | 0.411%        |
| 24        | 12.416      | 1749          | 1756        | 1758         | rBV      | 7154950        | 14074644      | 100.00%         | 25.042%       |
| 25        | 12.439      | 1758          | 1760        | 1765         | rVV2     | 7612290        | 8118188       | 57.68%          | 14.444%       |
| 26        | 12.510      | 1768          | 1772        | 1775         | rVV2     | 2961750        | 2917526       | 20.73%          | 5.191%        |
| 27        | 12.557      | 1775          | 1780        | 1781         | rVV      | 2122781        | 3071872       | 21.83%          | 5.465%        |
| 28        | 12.574      | 1781          | 1783        | 1789         | rVV      | 2347933        | 2617400       | 18.60%          | 4.657%        |
| 29        | 12.639      | 1792          | 1794        | 1799         | rVB      | 461083         | 390446        | 2.77%           | 0.695%        |
| 30        | 12.751      | 1808          | 1813        | 1816         | rBV      | 402640         | 514137        | 3.65%           | 0.915%        |
| 31        | 12.904      | 1833          | 1839        | 1842         | rBV      | 1806928        | 1532808       | 10.89%          | 2.727%        |
| 32        | 13.151      | 1876          | 1881        | 1884         | rBV2     | 257221         | 368396        | 2.62%           | 0.655%        |
| 33        | 13.233      | 1892          | 1895        | 1898         | rBV      | 293535         | 243406        | 1.73%           | 0.433%        |
| 34        | 13.663      | 1965          | 1968        | 1971         | rVB3     | 135021         | 181004        | 1.29%           | 0.322%        |
| 35        | 13.816      | 1991          | 1994        | 2003         | rVB3     | 174902         | 261121        | 1.86%           | 0.465%        |
| 36        | 13.904      | 2007          | 2009        | 2012         | rVV      | 245519         | 223646        | 1.59%           | 0.398%        |

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Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

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-BF083023.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 37 | 13.957 | 2014 | 2018 | 2021 | rVV2 | 633237 | 734950 | 5.22% | 1.308% |
| 38 | 14.533 | 2113 | 2116 | 2121 | rBV3 | 142846 | 180513 | 1.28% | 0.321% |
| 39 | 15.368 | 2255 | 2258 | 2264 | rVB  | 109886 | 147187 | 1.05% | 0.262% |
| 40 | 15.427 | 2265 | 2268 | 2273 | rBV  | 279107 | 338856 | 2.41% | 0.603% |

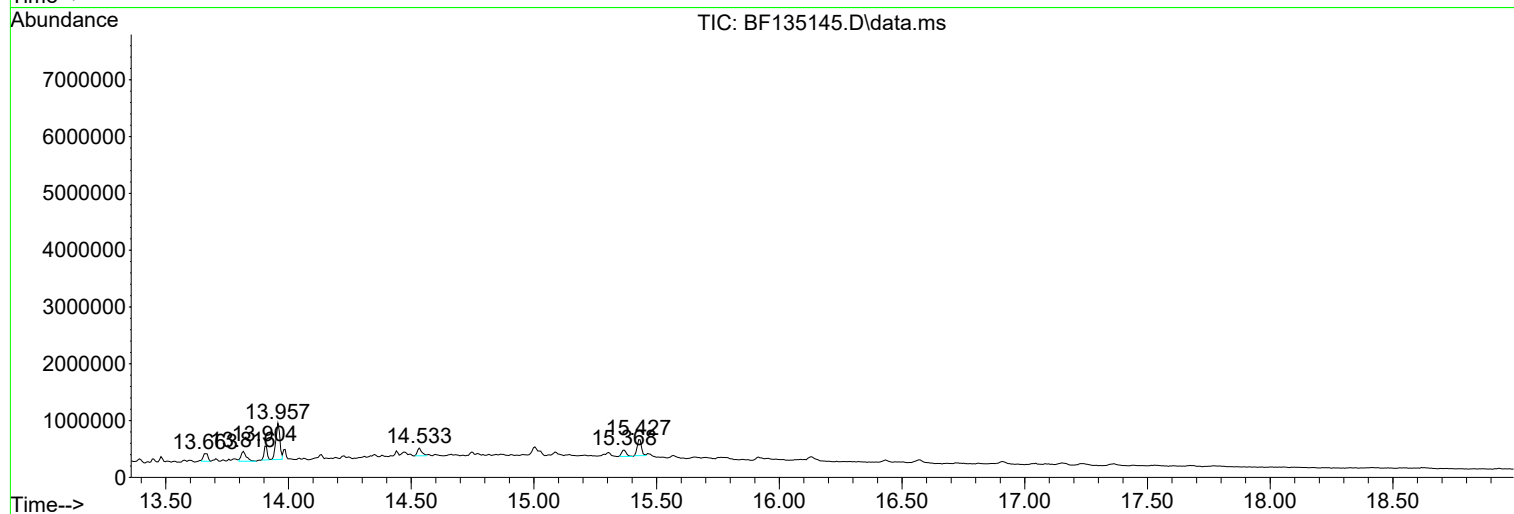
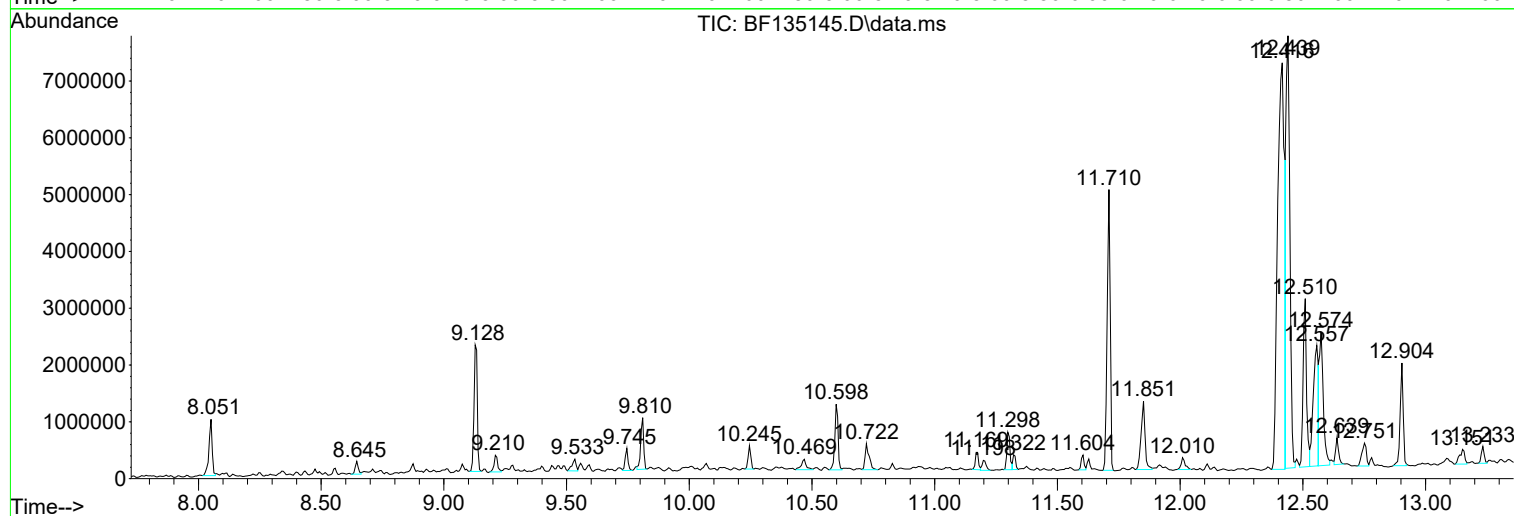
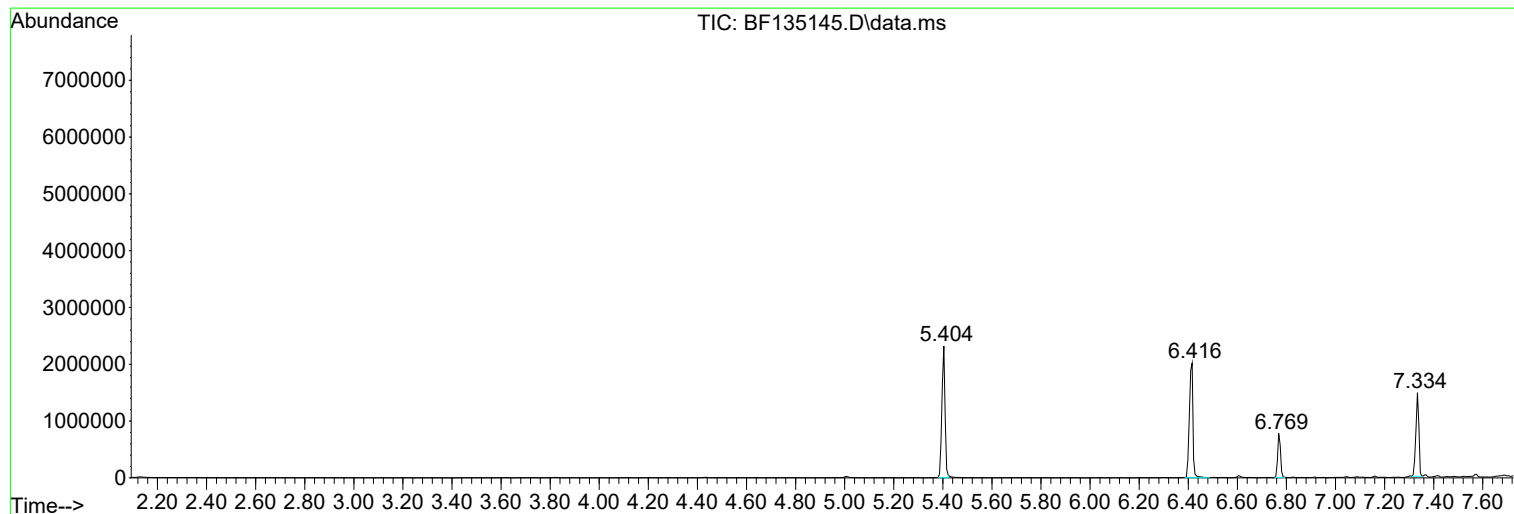
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
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Misc :  
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Instrument :  
BNA\_F  
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AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

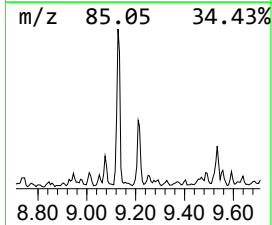
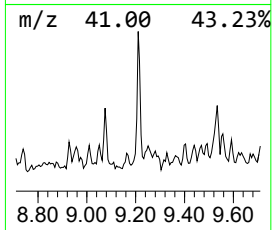
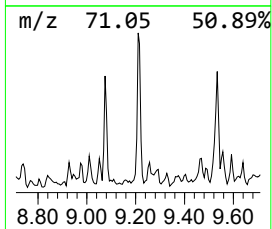
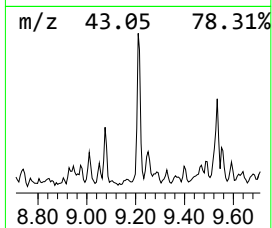
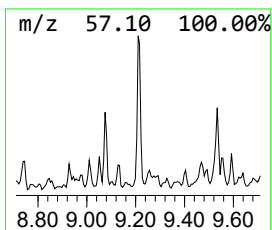
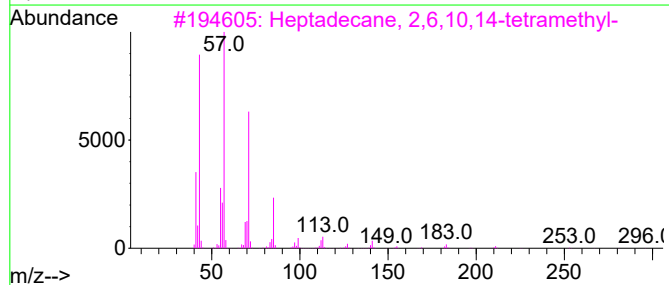
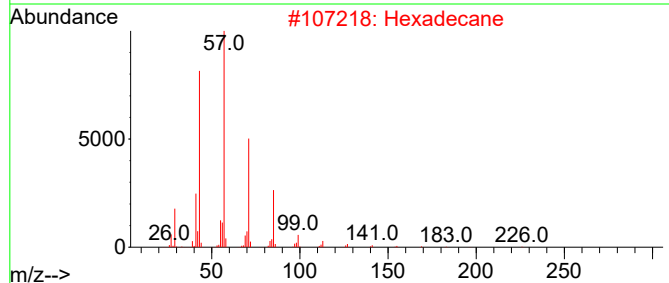
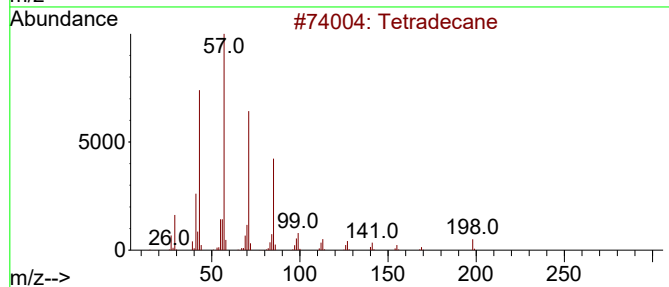
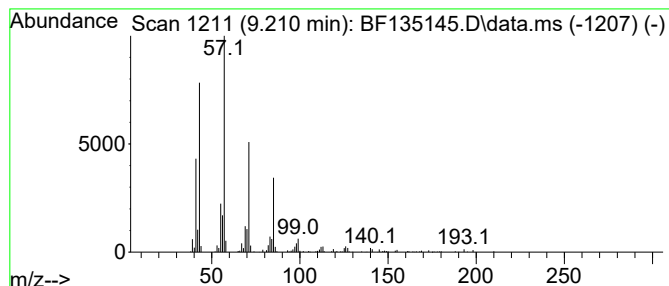
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Tetradecane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.210 | 7.97 ng | 302486 | Acenaphthene-d10 | 9.810 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | Tetradecane                         | 198 | C14H30    | 000629-59-4  | 93   |
| 2    |      | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 90   |
| 3    |      | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44    | 018344-37-1  | 86   |
| 4    |      | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 86   |
| 5    |      | Tridecane                           | 184 | C13H28    | 000629-50-5  | 80   |



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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

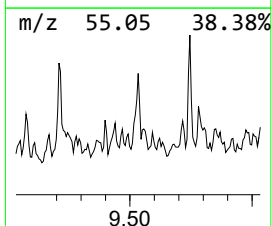
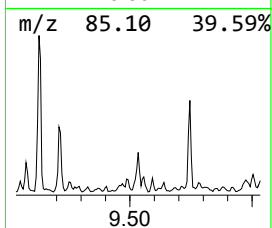
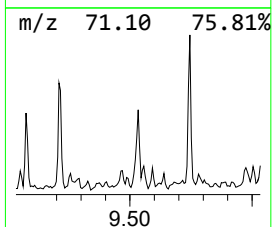
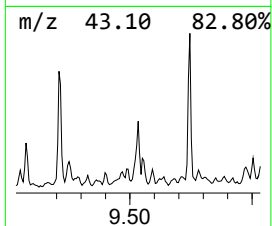
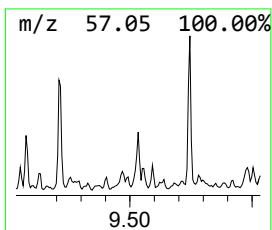
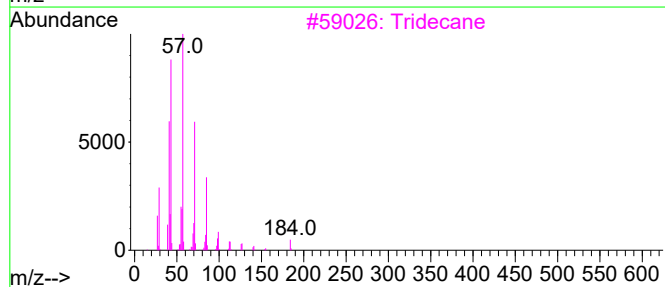
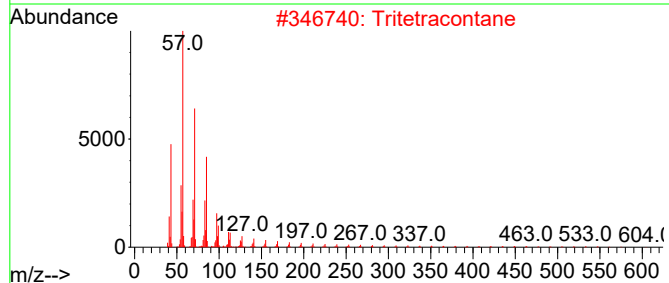
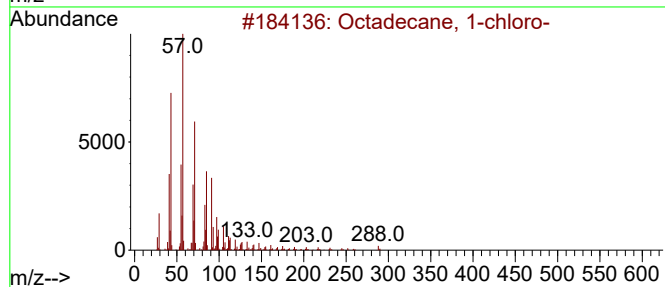
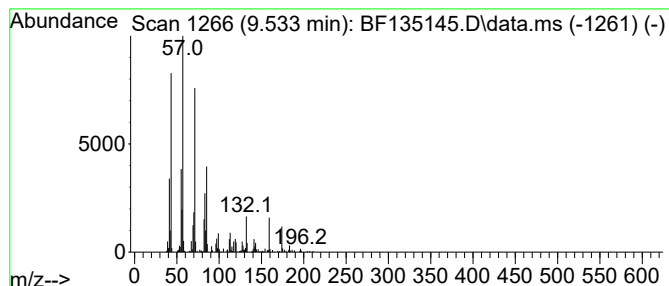
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Octadecane, 1-chloro- Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.533 | 6.24 ng | 236675 | Acenaphthene-d10 | 9.810 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Octadecane, 1-chloro-              | 288 | C18H37Cl | 003386-33-2  | 80   |
| 2    |    |   | Tritetracontane                    | 605 | C43H88   | 007098-21-7  | 80   |
| 3    |    |   | Tridecane                          | 184 | C13H28   | 000629-50-5  | 76   |
| 4    |    |   | Carbonic acid, eicosyl vinyl ester | 368 | C23H44O3 | 1000382-54-3 | 72   |
| 5    |    |   | Decane, 5-propyl-                  | 184 | C13H28   | 017312-62-8  | 70   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

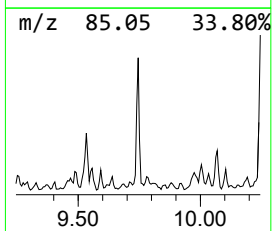
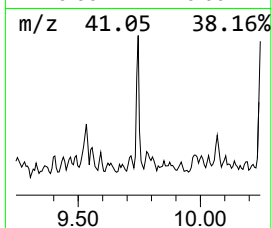
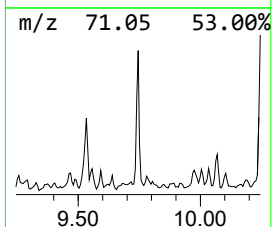
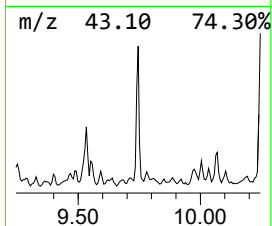
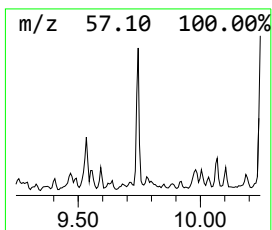
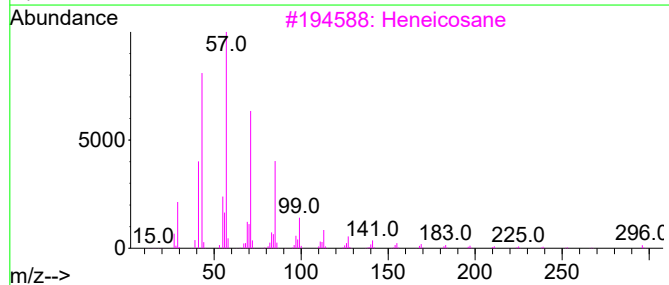
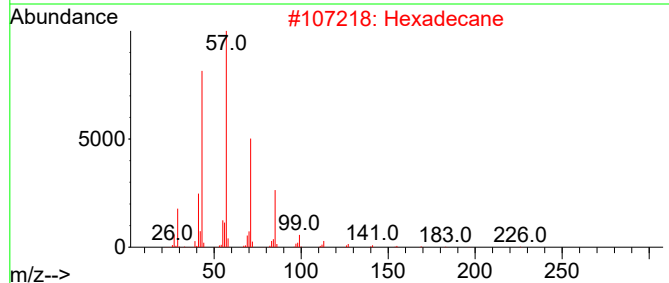
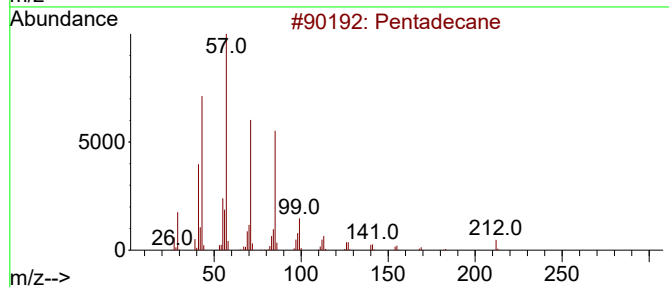
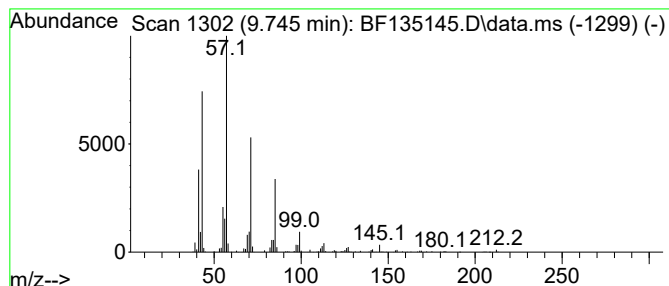
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentadecane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.745 | 7.86 ng | 298333 | Acenaphthene-d10 | 9.810 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 94   |
| 2    |    |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 5    |    |   | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

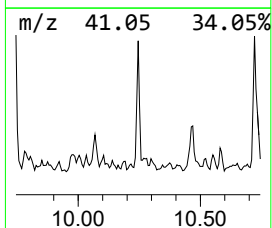
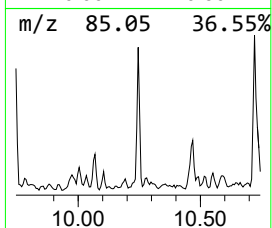
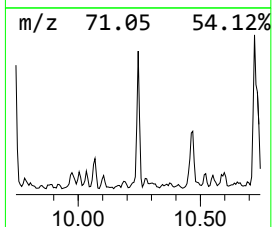
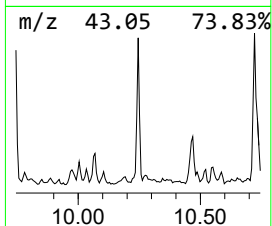
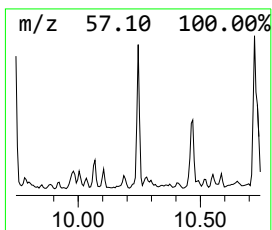
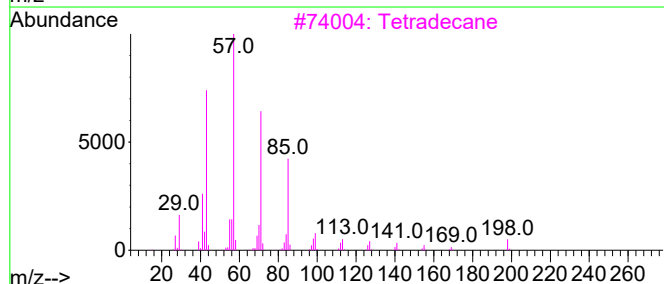
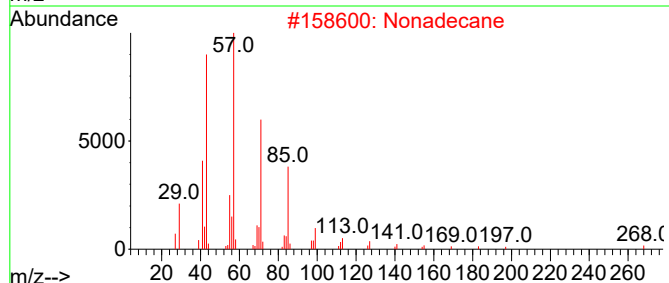
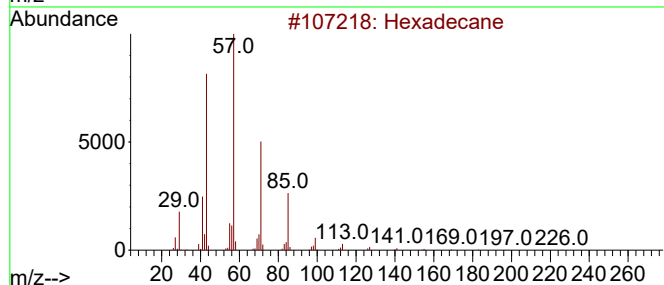
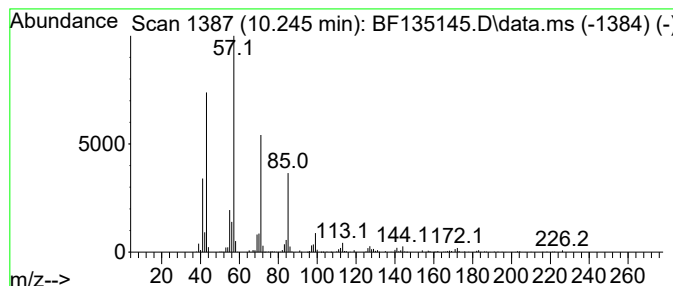
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hexadecane Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.245 | 7.91 ng | 299923 | Acenaphthene-d10 | 9.810 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 96   |
| 2    |    |   | Nonadecane   | 268 | C19H40  | 000629-92-5 | 91   |
| 3    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 90   |
| 4    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 90   |
| 5    |    |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

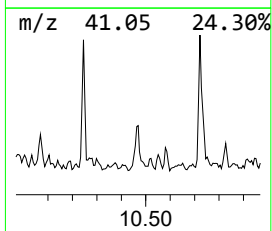
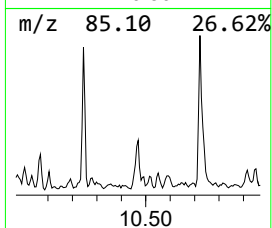
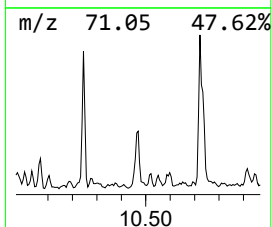
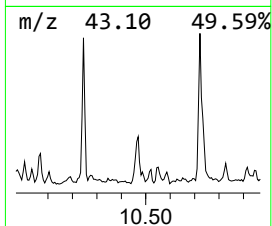
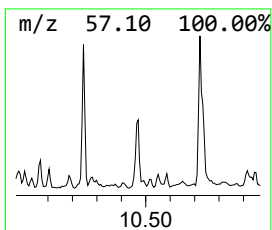
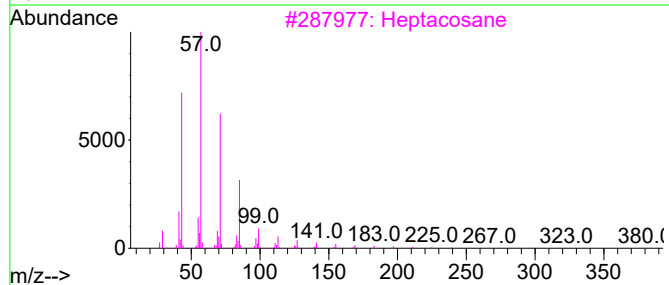
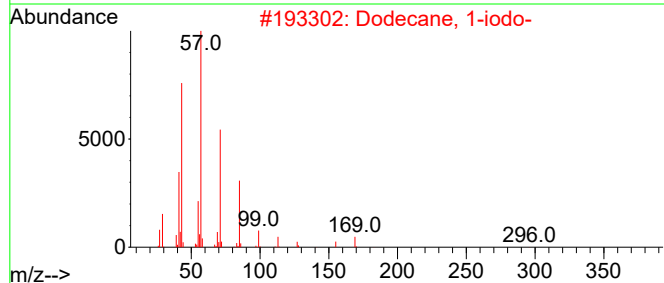
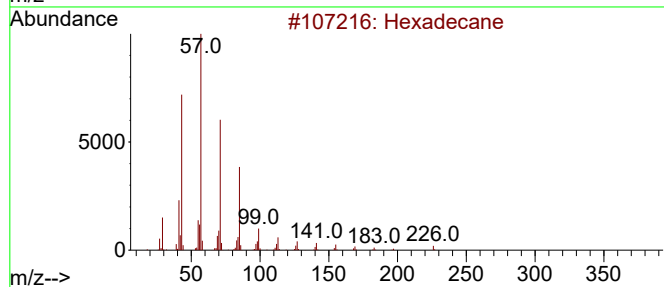
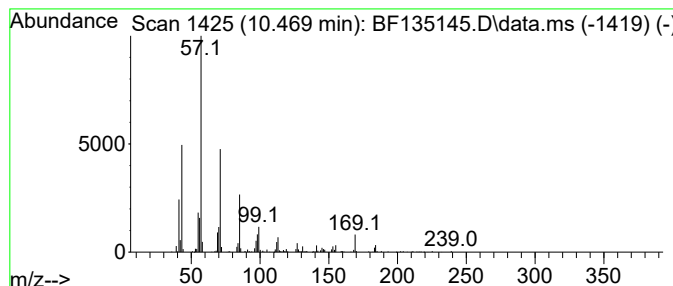
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Dodecane, 1-iodo- Concentration Rank 16

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.469 | 6.87 ng | 260673 | Acenaphthene-d10 | 9.810 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-----------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecane            | 226 | C16H34   | 000544-76-3 | 86   |
| 2    |    |   | Dodecane, 1-iodo-     | 296 | C12H25I  | 004292-19-7 | 86   |
| 3    |    |   | Heptacosane           | 380 | C27H56   | 000593-49-7 | 86   |
| 4    |    |   | Nonadecane, 2-methyl- | 282 | C20H42   | 001560-86-7 | 80   |
| 5    |    |   | 2-Bromo dodecane      | 248 | C12H25Br | 013187-99-0 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

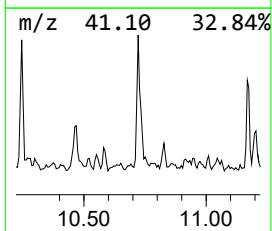
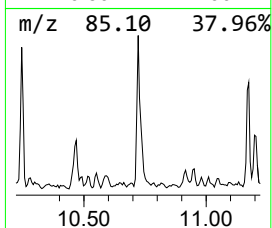
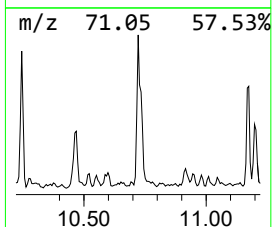
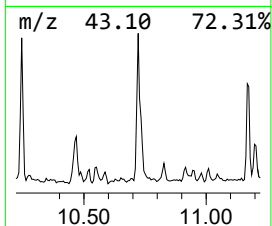
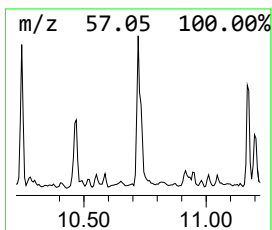
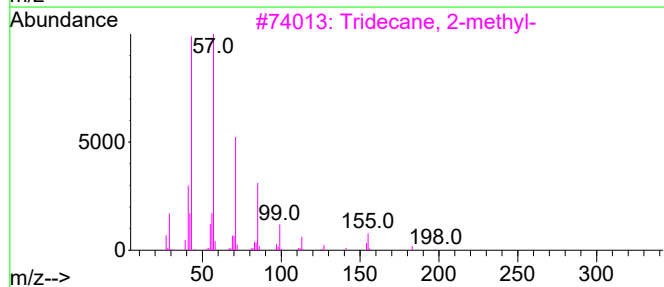
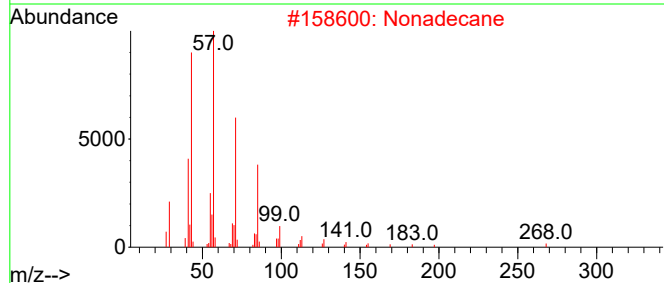
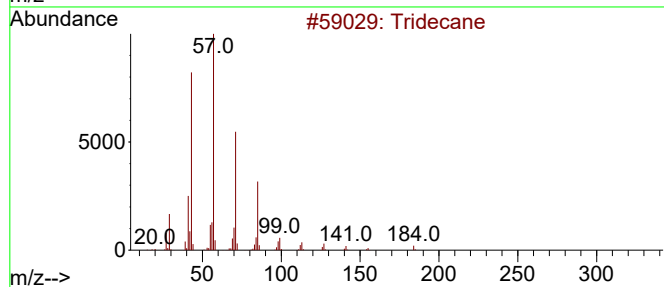
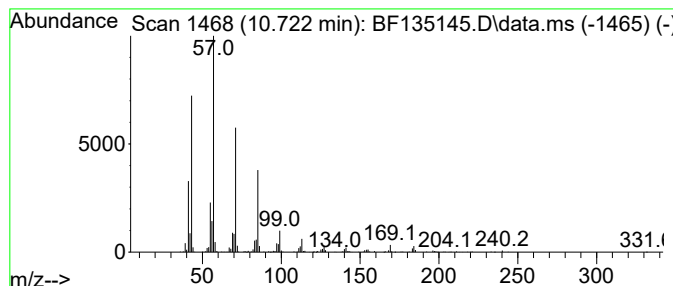
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Nonadecane Concentration Rank 6

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 10.722 | 16.80 ng | 509292 | Phenanthrene-d10 | 11.298 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Tridecane            | 184 | C13H28  | 000629-50-5 | 96   |
| 2    |      | Nonadecane           | 268 | C19H40  | 000629-92-5 | 91   |
| 3    |      | Tridecane, 2-methyl- | 198 | C14H30  | 001560-96-9 | 90   |
| 4    |      | Heneicosane          | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |      | Hexadecane           | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
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Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

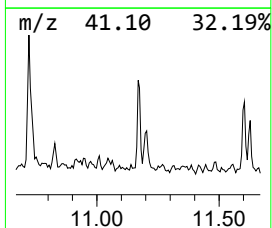
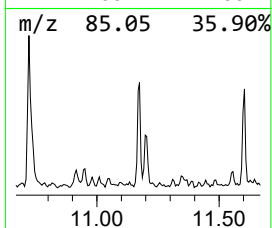
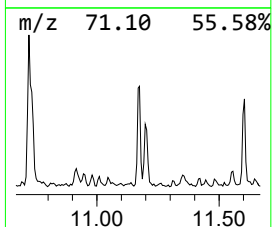
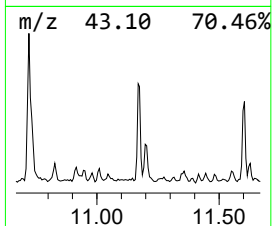
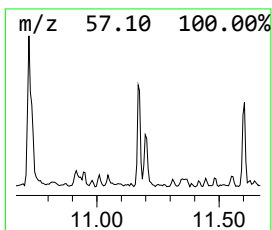
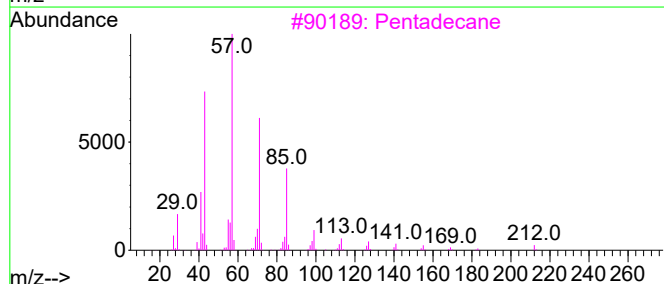
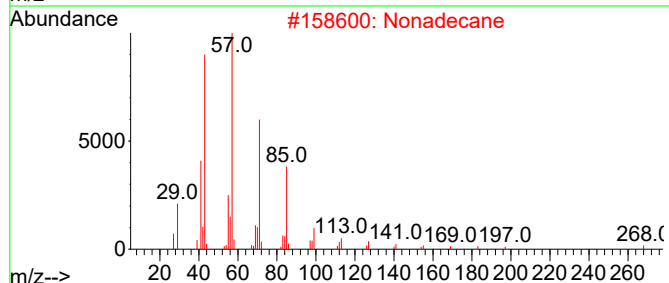
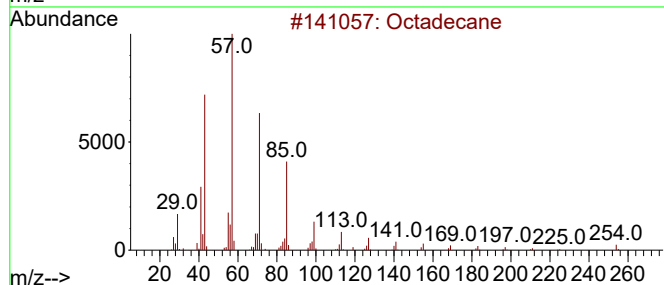
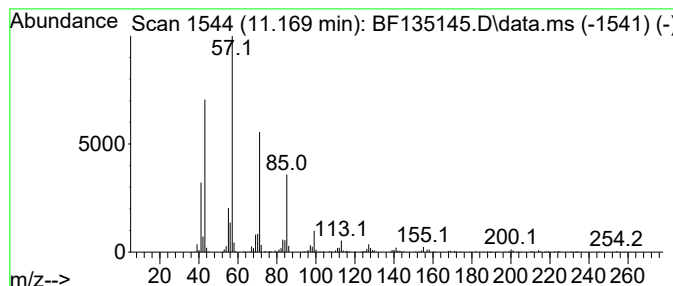
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Octadecane Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.169 | 9.13 ng | 276837 | Phenanthrene-d10 | 11.298 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane                   | 254 | C18H38  | 000593-45-3 | 94   |
| 2    |    |   | Nonadecane                   | 268 | C19H40  | 000629-92-5 | 91   |
| 3    |    |   | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 90   |
| 4    |    |   | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 90   |
| 5    |    |   | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

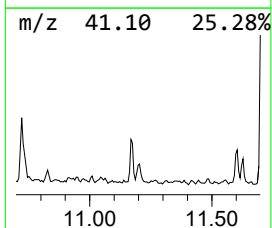
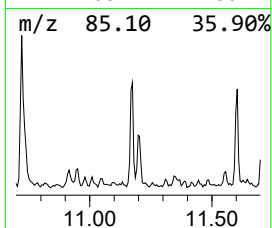
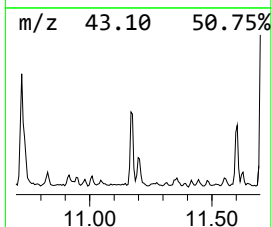
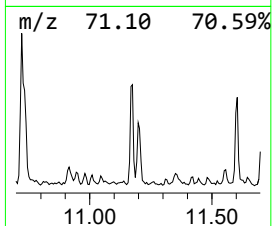
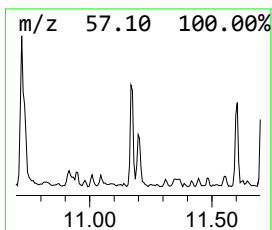
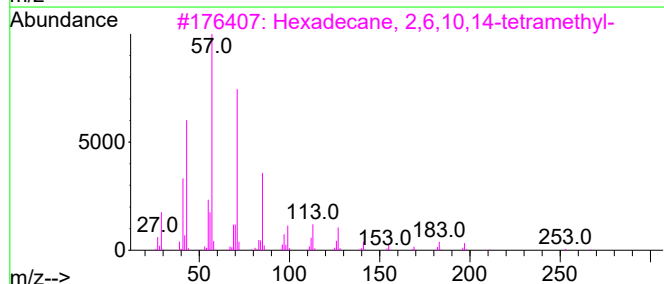
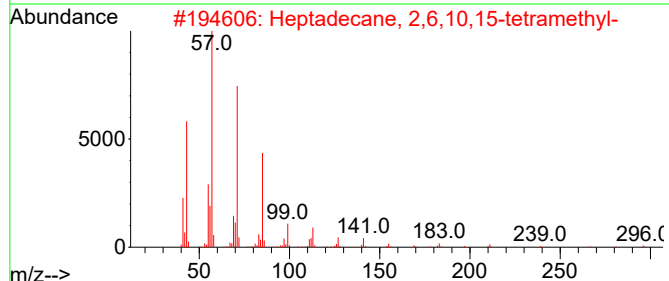
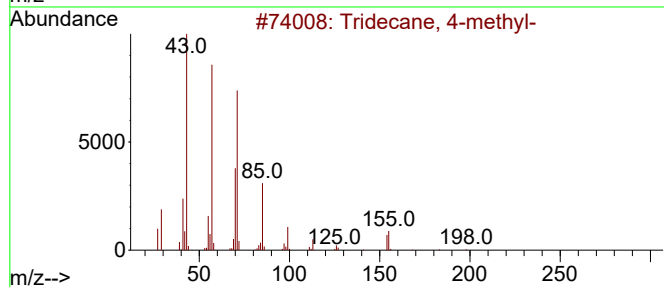
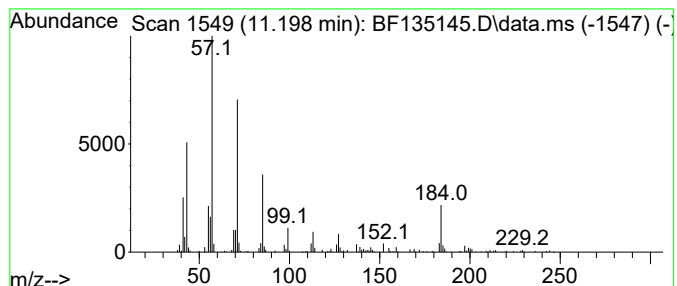
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Tridecane, 4-methyl- Concentration Rank 18

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.198 | 6.49 ng | 196673 | Phenanthrene-d10 | 11.298 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane, 4-methyl-                | 198 | C14H30  | 026730-12-1 | 76   |
| 2    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 68   |
| 3    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42  | 000638-36-8 | 68   |
| 4    |    |   | Tridecane, 2-methyl-                | 198 | C14H30  | 001560-96-9 | 64   |
| 5    |    |   | Nonadecane                          | 268 | C19H40  | 000629-92-5 | 59   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

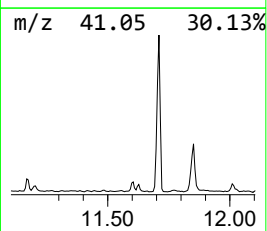
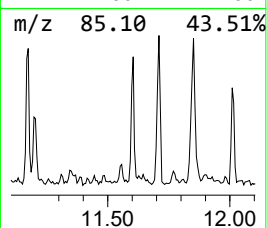
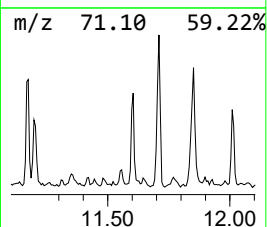
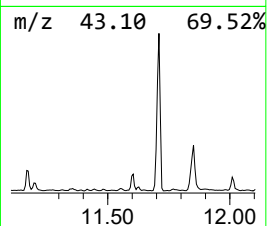
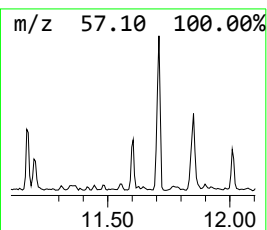
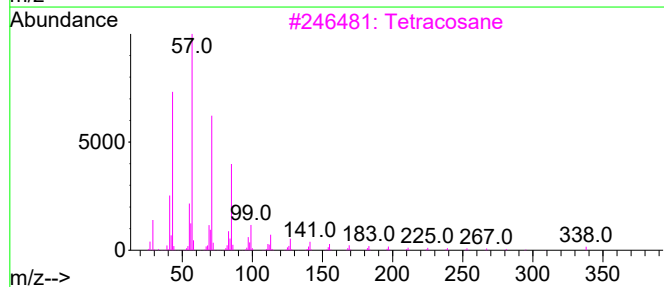
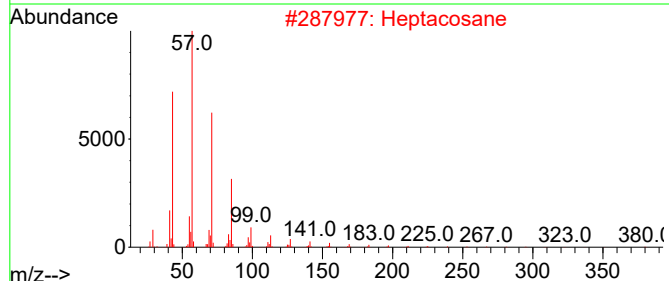
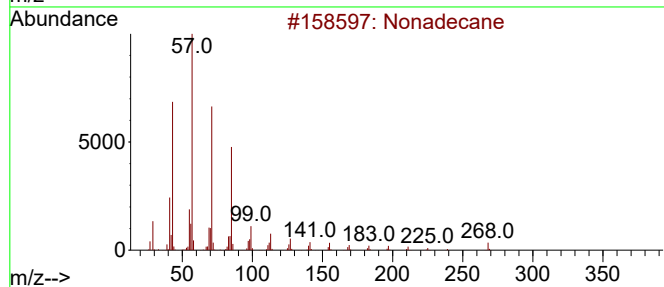
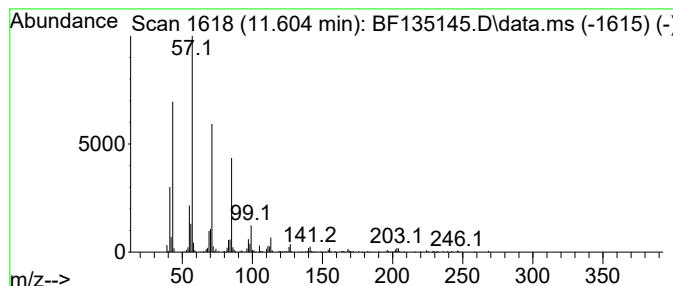
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heptacosane Concentration Rank 14

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.604 | 7.19 ng | 217983 | Phenanthrene-d10 | 11.298 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Nonadecane                         | 268 | C19H40   | 000629-92-5  | 95   |
| 2    |    |   | Heptacosane                        | 380 | C27H56   | 000593-49-7  | 91   |
| 3    |    |   | Tetracosane                        | 338 | C24H50   | 000646-31-1  | 90   |
| 4    |    |   | Carbonic acid, eicosyl vinyl ester | 368 | C23H44O3 | 1000382-54-3 | 86   |
| 5    |    |   | Hexadecane                         | 226 | C16H34   | 000544-76-3  | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

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ClientSampleId :  
AU-5-082923

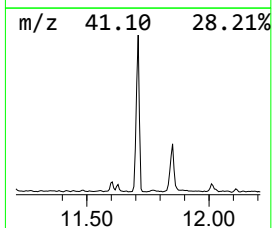
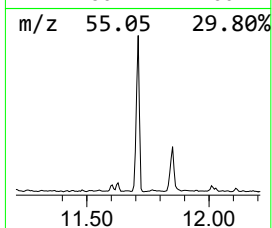
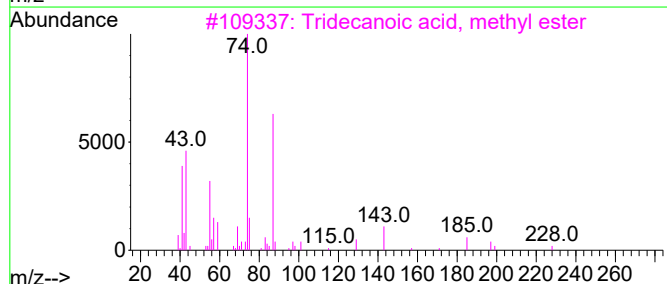
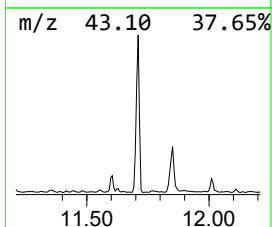
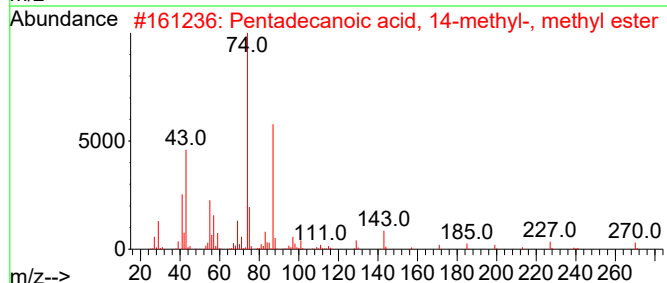
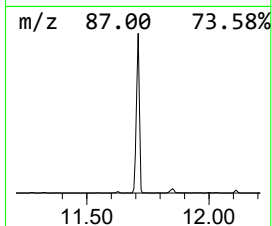
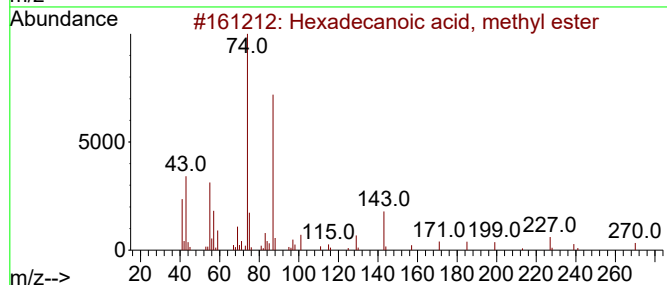
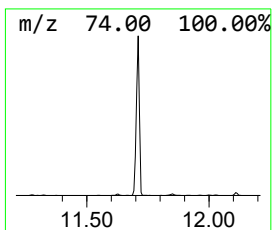
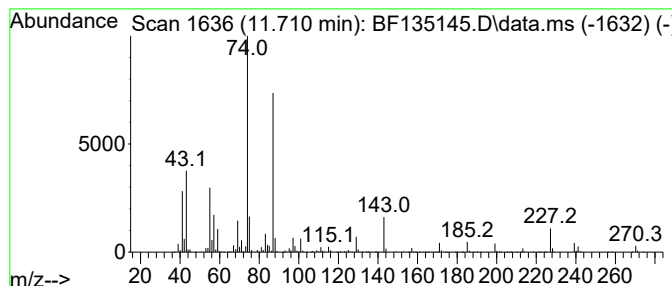
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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 11.710 | 142.29 ng | 4313420 | Phenanthrene-d10 | 11.298 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    |   | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 93   |
| 3    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 91   |
| 4    |    |   | Decanoic acid, methyl ester         | 186 | C11H22O2 | 000110-42-9 | 87   |
| 5    |    |   | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

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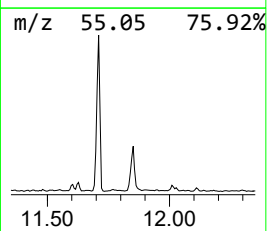
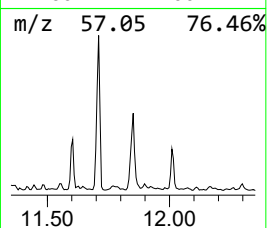
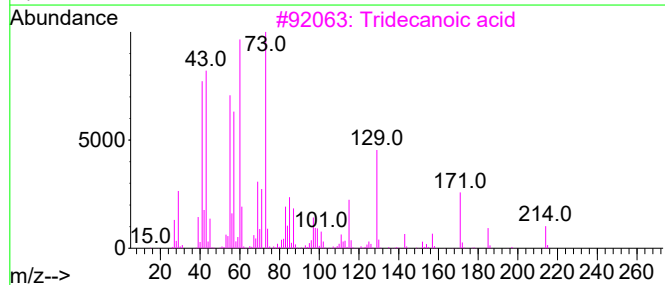
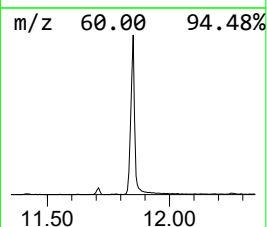
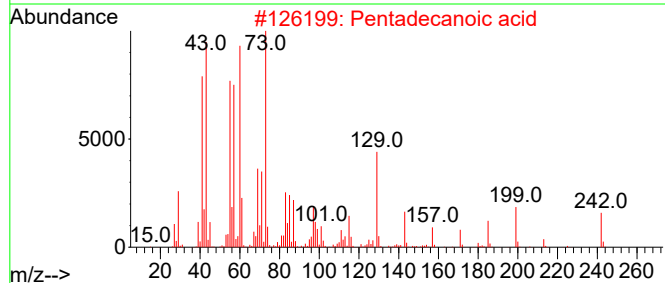
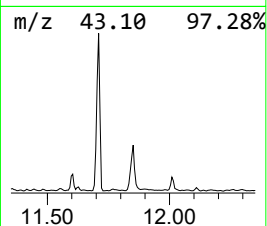
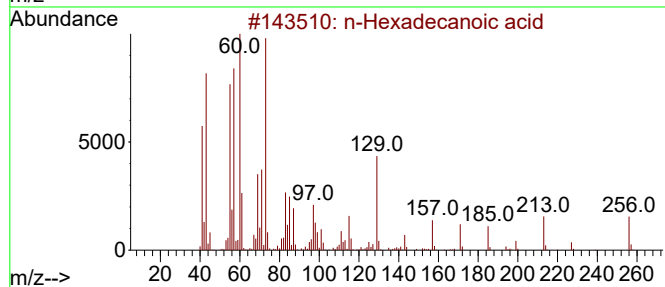
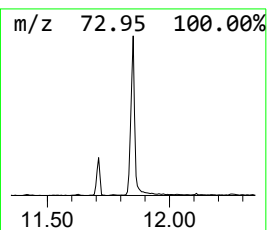
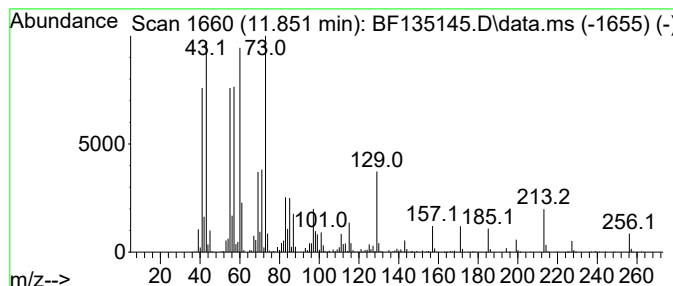
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 n-Hexadecanoic acid Concentration Rank 5

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.851 | 44.67 ng | 1354160 | Phenanthrene-d10 | 11.298 |

| 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 | 91   |
| 3    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 90   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 80   |
| 5    |    |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

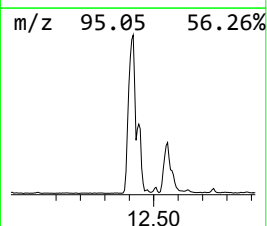
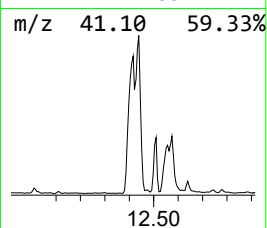
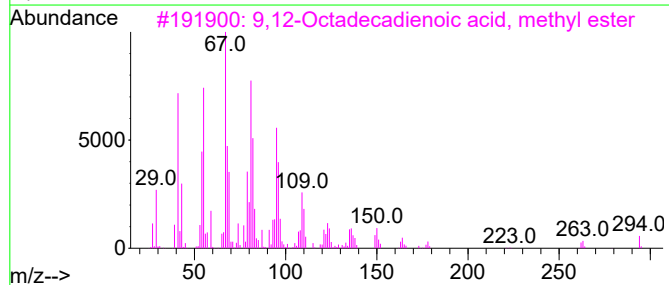
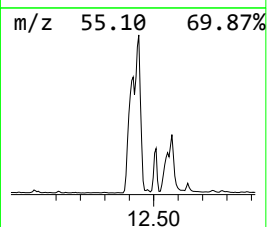
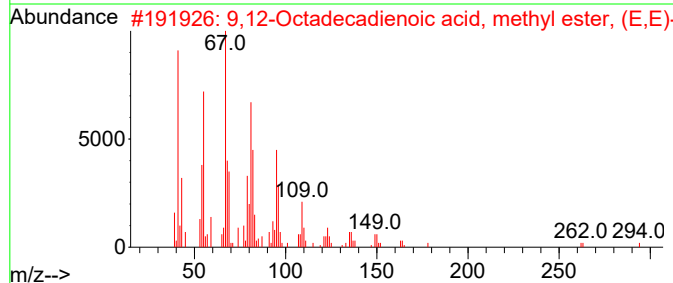
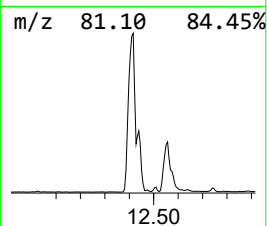
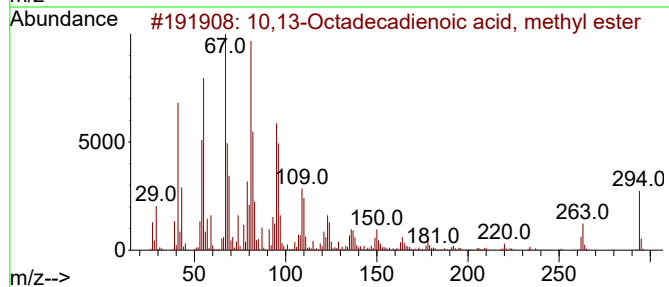
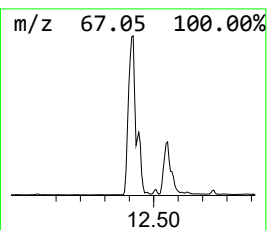
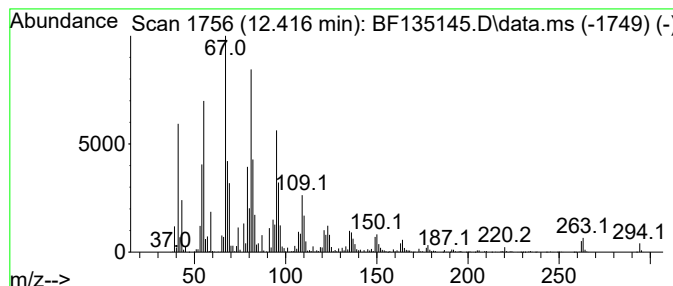
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 10,13-Octadecadienoic acid,... Concentration Rank 1

| R.T.   | EstConc   | Area     | Relative to ISTD | R.T.   |
|--------|-----------|----------|------------------|--------|
| 12.416 | 464.30 ng | 14074600 | Phenanthrene-d10 | 11.298 |

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

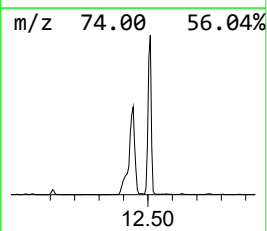
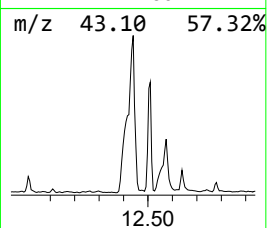
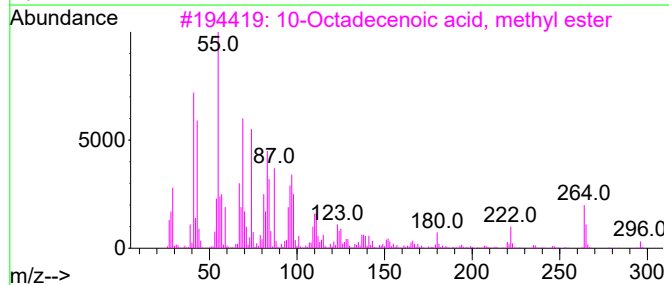
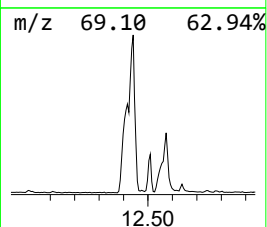
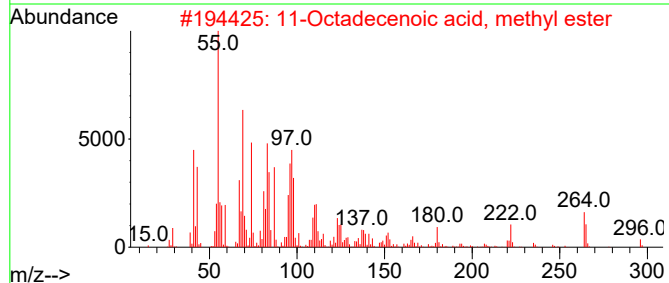
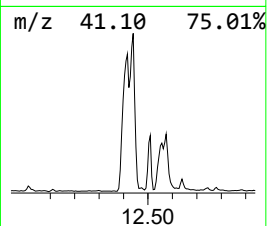
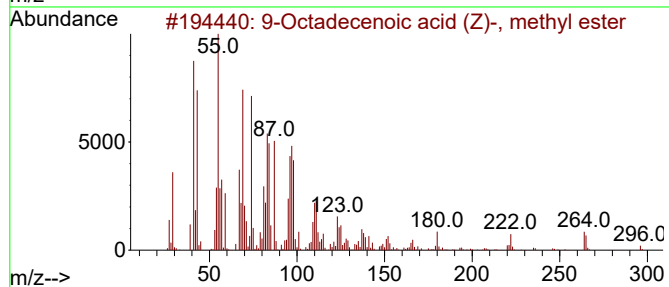
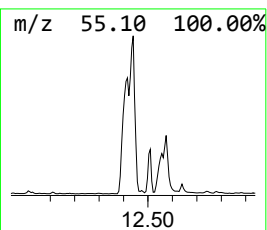
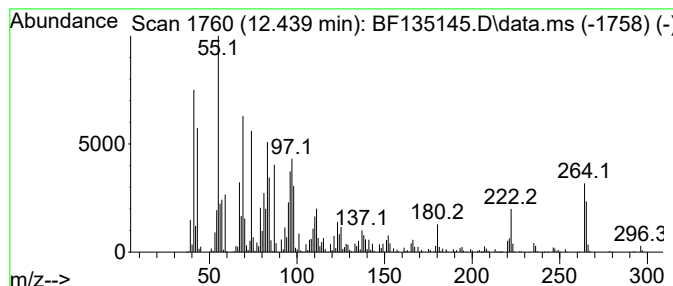
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Peak Number 14 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 12.439 | 267.80 ng | 8118190 | Phenanthrene-d10 | 11.298 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|------|-------------------------------------|-----|----------|-------------|------|
| 1    |      | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |      | 11-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 052380-33-3 | 99   |
| 3    |      | 10-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 013481-95-3 | 99   |
| 4    |      | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 99   |
| 5    |      | 6-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 002777-58-4 | 98   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

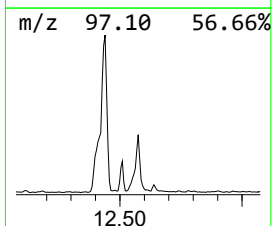
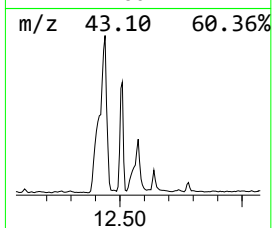
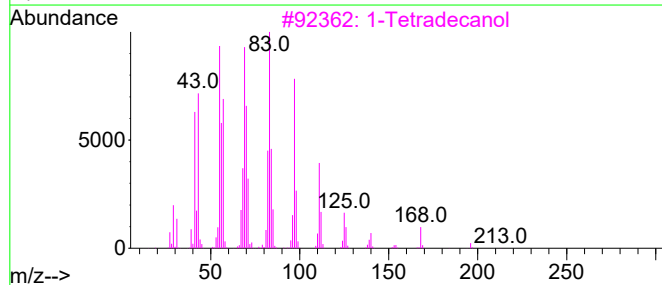
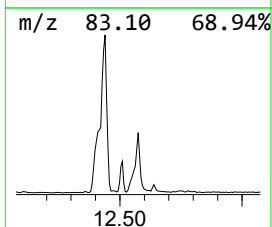
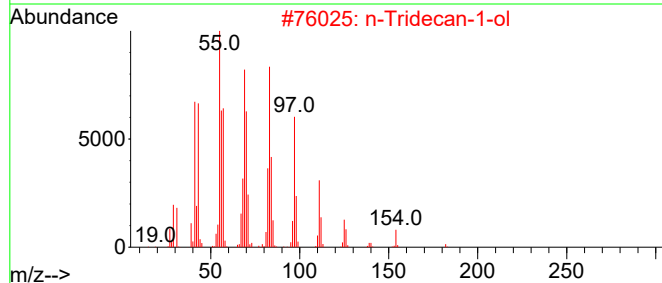
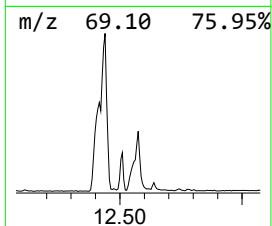
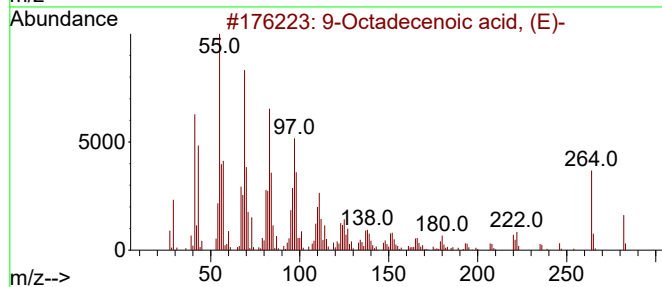
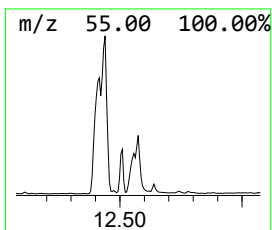
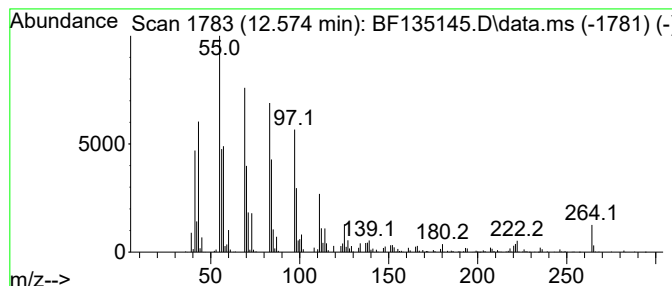
Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 9-Octadecenoic acid, (E)- Concentration Rank 4

| R.T.      | EstConc                   | Area    | Relative to ISTD |          | R.T.        |      |
|-----------|---------------------------|---------|------------------|----------|-------------|------|
| 12.574    | 86.34 ng                  | 2617400 | Phenanthrene-d10 |          | 11.298      |      |
| Hit# of 5 | Tentative ID              |         | MW               | MolForm  | CAS#        | Qual |
| 1         | 9-Octadecenoic acid, (E)- |         | 282              | C18H34O2 | 000112-79-8 | 83   |
| 2         | n-Tridecan-1-ol           |         | 200              | C13H28O  | 000112-70-9 | 80   |
| 3         | 1-Tetradecanol            |         | 214              | C14H30O  | 000112-72-1 | 80   |
| 4         | Cyclopentadecane          |         | 210              | C15H30   | 000295-48-7 | 80   |
| 5         | Cyclotetradecane          |         | 196              | C14H28   | 000295-17-0 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

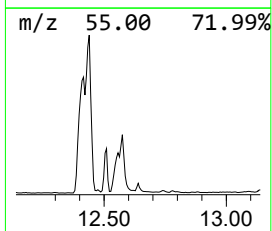
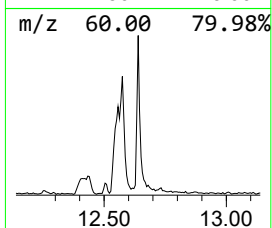
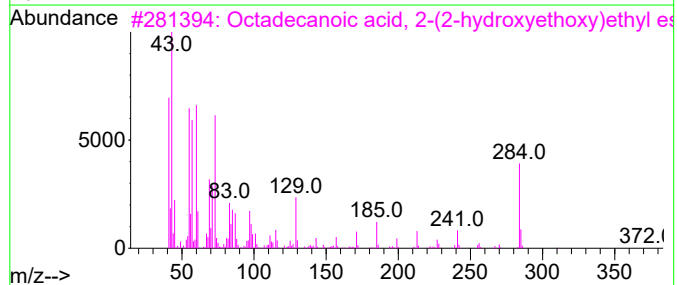
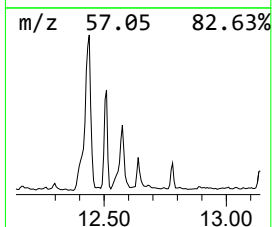
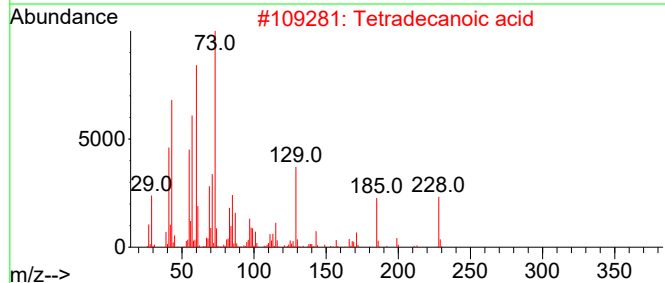
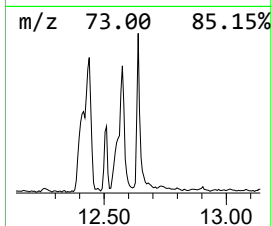
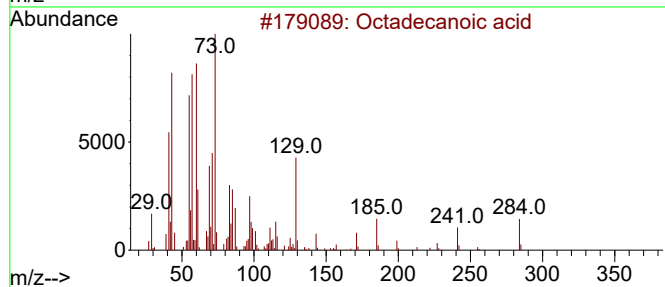
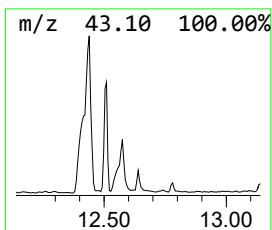
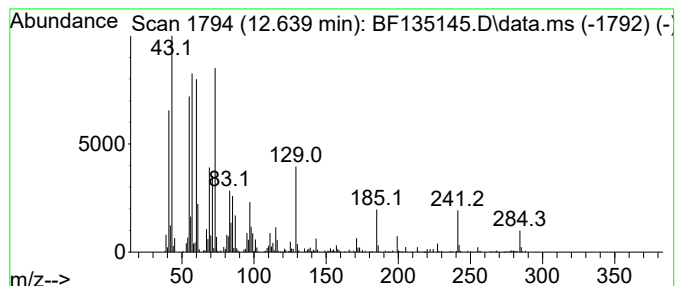
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Octadecanoic acid Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.639 | 10.63 ng | 390446 | Chrysene-d12     | 13.957 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid                   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8 | 81   |
| 3    |    |   | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 80   |
| 4    |    |   | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9 | 64   |
| 5    |    |   | n-Decanoic acid                     | 172 | C10H20O2 | 000334-48-5 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

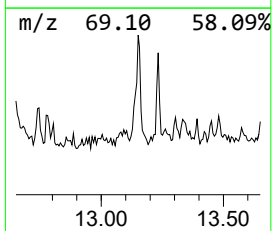
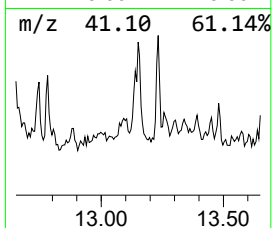
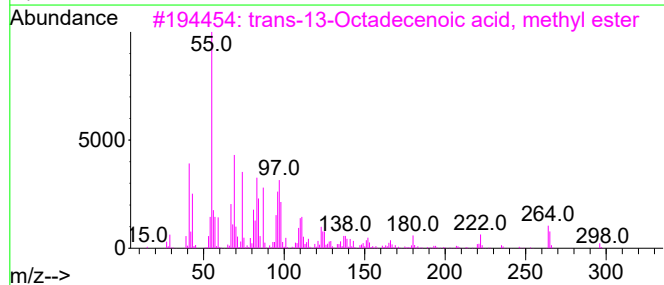
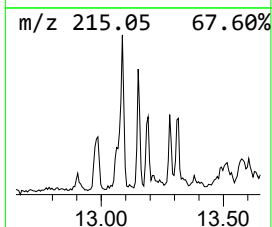
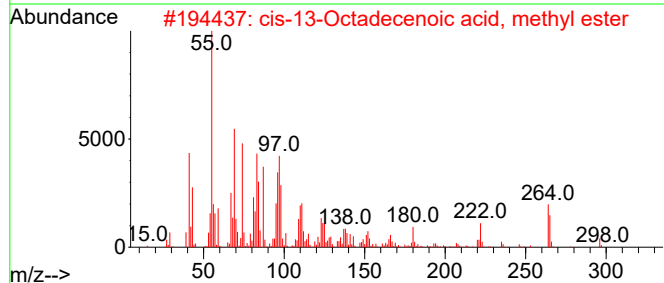
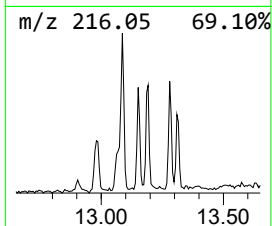
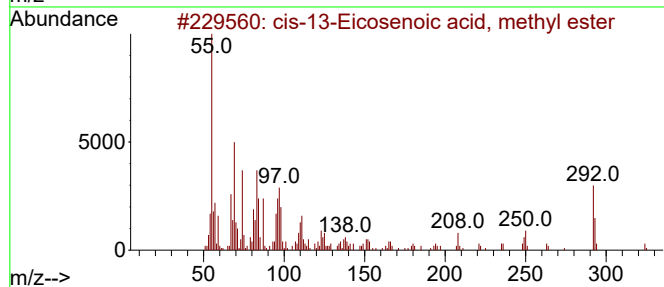
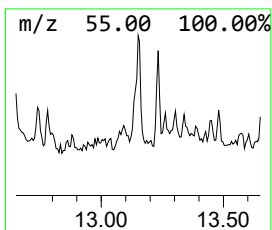
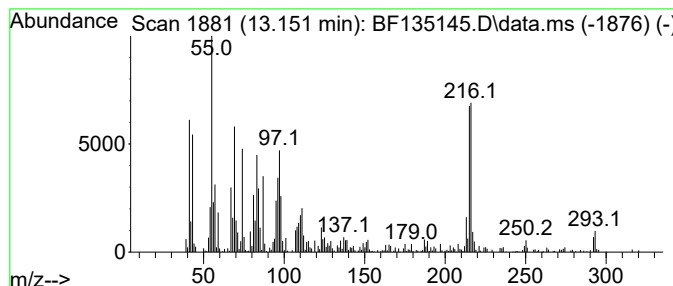
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 cis-13-Eicosenoic acid, met... Concentration Rank 8

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 13.151 | 10.03 ng | 368396 | Chrysene-d12     | 13.957 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | cis-13-Eicosenoic acid, methyl e... | 324 | C21H40O2 | 069120-02-1  | 64   |
| 2    |    |   | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1010333-58-3 | 60   |
| 3    |    |   | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 60   |
| 4    |    |   | 7-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 056875-67-3  | 56   |
| 5    |    |   | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2  | 55   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

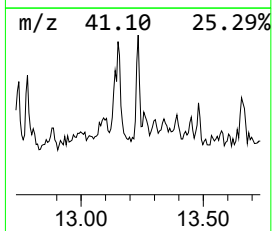
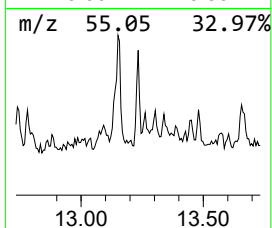
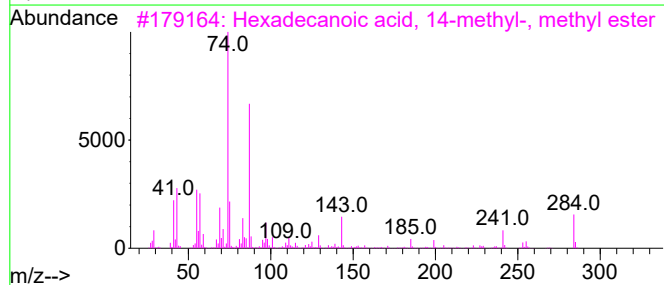
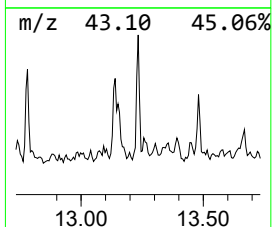
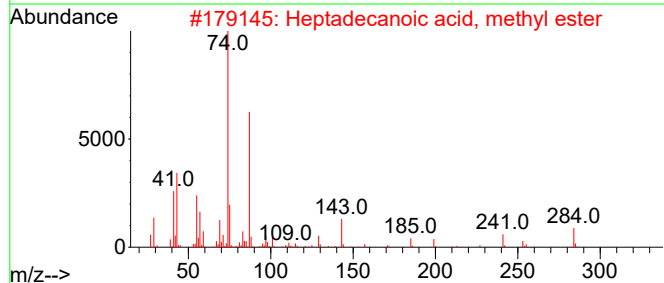
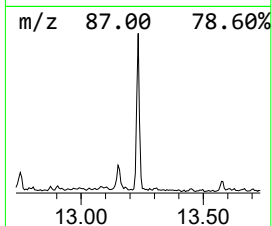
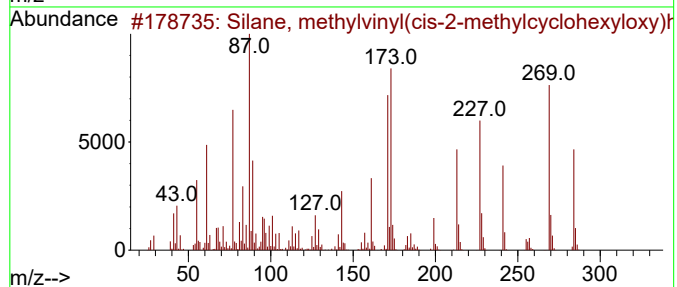
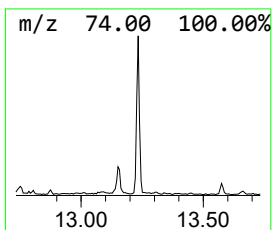
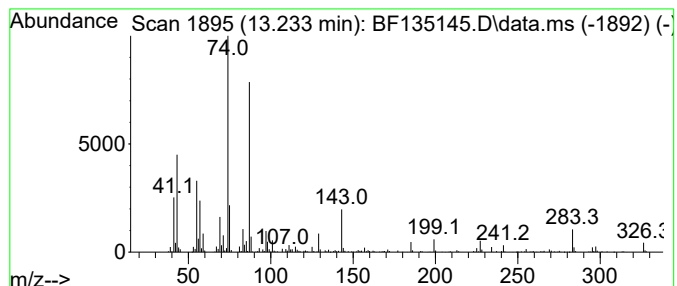
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Silane, methylvinyl(cis-2-m... Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.233 | 6.62 ng | 243406 | Chrysene-d12     | 13.957 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Silane, methylvinyl(cis-2-methyl... | 284 | C16H32O2Si | 1000421-05-1 | 96   |
| 2    |    |   | Heptadecanoic acid, methyl ester    | 284 | C18H36O2   | 001731-92-6  | 93   |
| 3    |    |   | Hexadecanoic acid, 14-methyl-, m... | 284 | C18H36O2   | 002490-49-5  | 91   |
| 4    |    |   | Eicosanoic acid, methyl ester       | 326 | C21H42O2   | 001120-28-1  | 91   |
| 5    |    |   | Methyl 18-methylnonadecanoate       | 326 | C21H42O2   | 1000424-52-4 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

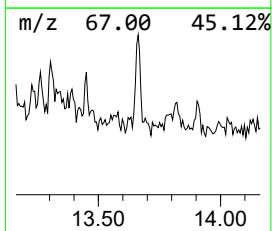
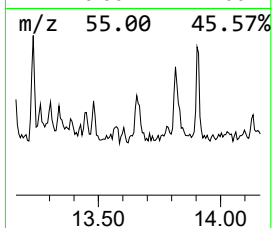
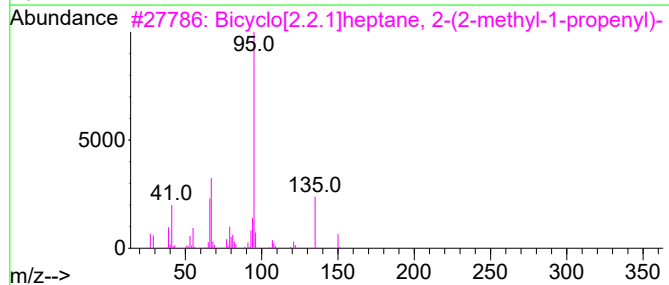
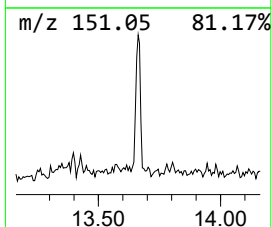
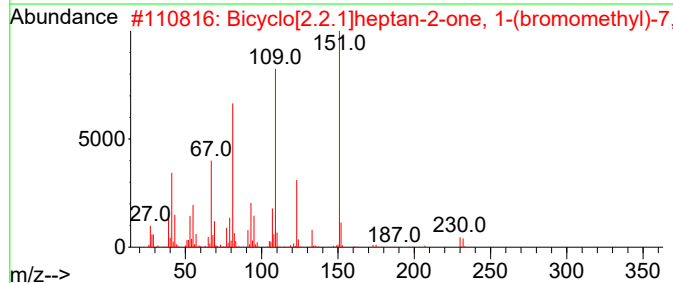
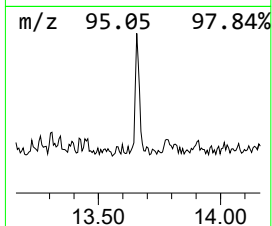
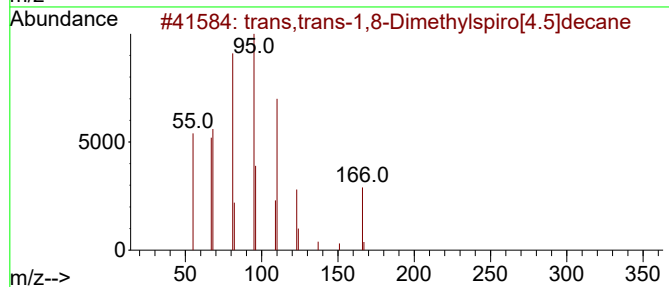
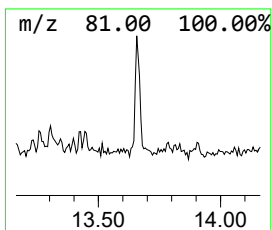
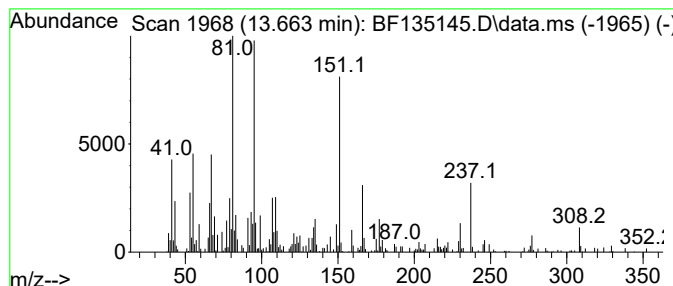
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown13.663 Concentration Rank 20

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.663 | 4.93 ng | 181004 | Chrysene-d12     | 13.957 |

| Hit# | of | 5 | Tentative ID                                    | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | trans,trans-1,8-Dimethylspiro[4.5]decane        | 166 | C12H22    | 1000111-72-8 | 41   |
| 2    |    |   | Bicyclo[2.2.1]heptan-2-one, 1-(bromomethyl)-7   | 230 | C10H15BrO | 064161-50-8  | 38   |
| 3    |    |   | Bicyclo[2.2.1]heptane, 2-(2-methyl-1-propenyl)- | 150 | C11H18    | 061142-27-6  | 27   |
| 4    |    |   | Phenol, 2,6-dimethyl-4-nitroso-                 | 151 | C8H9NO2   | 013331-93-6  | 25   |
| 5    |    |   | 3-(2-Hydroxycyclohexyl)-furan                   | 166 | C10H14O2  | 118959-04-9  | 25   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
Data File : BF135145.D  
Acq On : 07 Sep 2023 21:20  
Operator : CG\JU  
Sample : 04221-01  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AU-5-082923

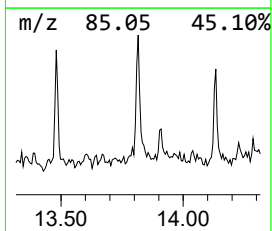
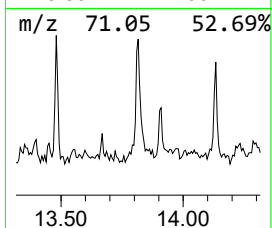
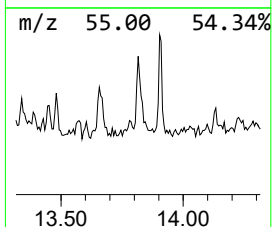
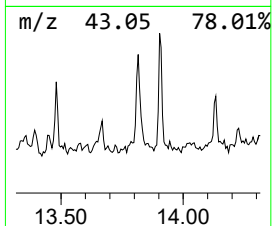
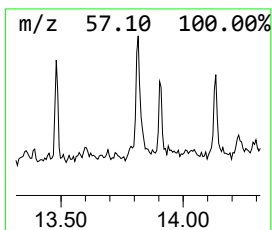
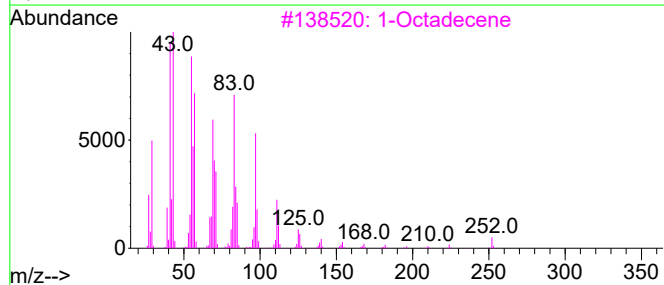
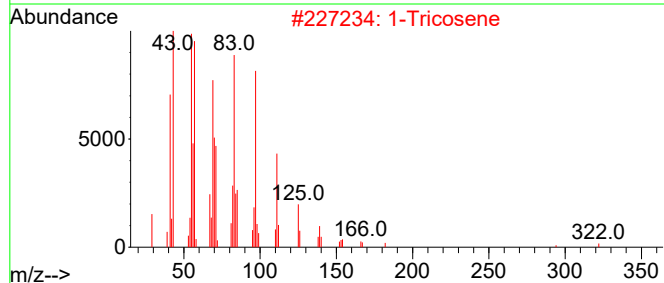
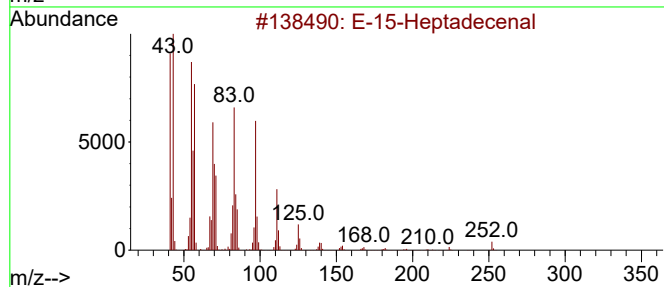
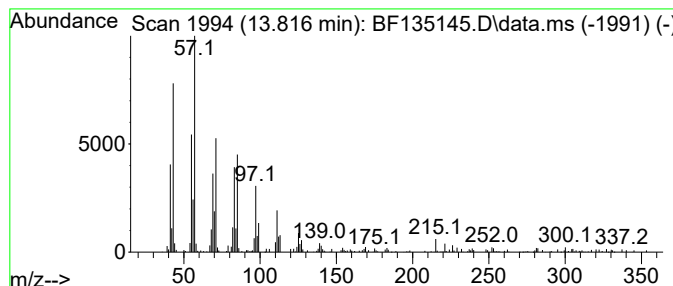
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 E-15-Heptadecenal Concentration Rank 15

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.816    | 7.11 ng                             | 261121 | Chrysene-d12     | 13.957       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | E-15-Heptadecenal                   | 252    | C17H32O          | 1000130-97-9 | 95   |
| 2         | 1-Tricosene                         | 322    | C23H46           | 018835-32-0  | 90   |
| 3         | 1-Octadecene                        | 252    | C18H36           | 000112-88-9  | 90   |
| 4         | Cyclohexadecane, 1,2-diethyl-       | 280    | C20H40           | 1000155-85-3 | 87   |
| 5         | Sulfurous acid, octadecyl 2-prop... | 376    | C21H44O3S        | 1000309-12-7 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090723\  
 Data File : BF135145.D  
 Acq On : 07 Sep 2023 21:20  
 Operator : CG\JU  
 Sample : 04221-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AU-5-082923

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF083023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Tetradecane        | 9.210  | 8.0     | ng    | 302486   | 3                     | 9.810  | 758715 | 20.0 |
| Octadecane, 1-c... | 9.533  | 6.2     | ng    | 236675   | 3                     | 9.810  | 758715 | 20.0 |
| Pentadecane        | 9.745  | 7.9     | ng    | 298333   | 3                     | 9.810  | 758715 | 20.0 |
| Hexadecane         | 10.245 | 7.9     | ng    | 299923   | 3                     | 9.810  | 758715 | 20.0 |
| Dodecane, 1-iodo-  | 10.469 | 6.9     | ng    | 260673   | 3                     | 9.810  | 758715 | 20.0 |
| Nonadecane         | 10.722 | 16.8    | ng    | 509292   | 4                     | 11.298 | 606278 | 20.0 |
| Octadecane         | 11.169 | 9.1     | ng    | 276837   | 4                     | 11.298 | 606278 | 20.0 |
| Tridecane, 4-me... | 11.198 | 6.5     | ng    | 196673   | 4                     | 11.298 | 606278 | 20.0 |
| Heptacosane        | 11.604 | 7.2     | ng    | 217983   | 4                     | 11.298 | 606278 | 20.0 |
| Hexadecanoic ac... | 11.710 | 142.3   | ng    | 4313420  | 4                     | 11.298 | 606278 | 20.0 |
| n-Hexadecanoic ... | 11.851 | 44.7    | ng    | 1354160  | 4                     | 11.298 | 606278 | 20.0 |
| 10,13-Octadecad... | 12.416 | 464.3   | ng    | 14074600 | 4                     | 11.298 | 606278 | 20.0 |
| 9-Octadecenoic ... | 12.439 | 267.8   | ng    | 8118190  | 4                     | 11.298 | 606278 | 20.0 |
| 9-Octadecenoic ... | 12.574 | 86.3    | ng    | 2617400  | 4                     | 11.298 | 606278 | 20.0 |
| Octadecanoic acid  | 12.639 | 10.6    | ng    | 390446   | 5                     | 13.957 | 734950 | 20.0 |
| cis-13-Eicoseno... | 13.151 | 10.0    | ng    | 368396   | 5                     | 13.957 | 734950 | 20.0 |
| Silane, methylv... | 13.233 | 6.6     | ng    | 243406   | 5                     | 13.957 | 734950 | 20.0 |
| unknown13.663      | 13.663 | 4.9     | ng    | 181004   | 5                     | 13.957 | 734950 | 20.0 |
| E-15-Heptadecenal  | 13.816 | 7.1     | ng    | 261121   | 5                     | 13.957 | 734950 | 20.0 |