

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072820\  
 Data File : BF121062.D  
 Acq On : 28 Jul 2020 11:18  
 Operator : JU/CG  
 Sample : L3410-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FM-FRAC

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-BF071620.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         | 5.022       | 495           | 499         | 507          | rVB      | 42214          | 57845         | 1.01%           | 0.177%        |
| 2         | 5.428       | 563           | 568         | 571          | rBV      | 2411075        | 2403279       | 42.01%          | 7.352%        |
| 3         | 6.439       | 735           | 740         | 743          | rBV      | 2027886        | 1780453       | 31.12%          | 5.447%        |
| 4         | 6.810       | 800           | 803         | 806          | rBV      | 1117975        | 850319        | 14.86%          | 2.601%        |
| 5         | 7.375       | 894           | 899         | 902          | rBV      | 2533232        | 2761244       | 48.26%          | 8.447%        |
| 6         | 8.092       | 1017          | 1021        | 1025         | rBV      | 1287078        | 1085470       | 18.97%          | 3.321%        |
| 7         | 9.175       | 1199          | 1205        | 1208         | rBV      | 3911986        | 4281555       | 74.83%          | 13.098%       |
| 8         | 9.269       | 1219          | 1221        | 1228         | rVB2     | 58878          | 72497         | 1.27%           | 0.222%        |
| 9         | 9.563       | 1267          | 1271        | 1274         | rBV      | 556989         | 453485        | 7.93%           | 1.387%        |
| 10        | 9.845       | 1315          | 1319        | 1331         | rBV      | 1486716        | 1303489       | 22.78%          | 3.988%        |
| 11        | 10.639      | 1448          | 1454        | 1468         | rBV      | 2817729        | 3543595       | 61.94%          | 10.840%       |
| 12        | 11.333      | 1567          | 1572        | 1577         | rBV      | 1470003        | 1481660       | 25.90%          | 4.533%        |
| 13        | 11.721      | 1634          | 1638        | 1645         | rVB2     | 50562          | 61474         | 1.07%           | 0.188%        |
| 14        | 11.863      | 1658          | 1662        | 1674         | rBV2     | 435102         | 554807        | 9.70%           | 1.697%        |
| 15        | 12.310      | 1734          | 1738        | 1741         | rBV      | 371225         | 328575        | 5.74%           | 1.005%        |
| 16        | 12.563      | 1778          | 1781        | 1787         | rVB      | 72003          | 67431         | 1.18%           | 0.206%        |
| 17        | 12.645      | 1792          | 1795        | 1799         | rBV      | 159963         | 190191        | 3.32%           | 0.582%        |
| 18        | 12.927      | 1837          | 1843        | 1846         | rBV      | 4316191        | 5721328       | 100.00%         | 17.502%       |
| 19        | 13.386      | 1918          | 1921        | 1925         | rVB      | 71422          | 76278         | 1.33%           | 0.233%        |
| 20        | 13.527      | 1942          | 1945        | 1949         | rBV      | 431141         | 382955        | 6.69%           | 1.172%        |
| 21        | 13.815      | 1991          | 1994        | 2002         | rBV      | 786417         | 1087144       | 19.00%          | 3.326%        |
| 22        | 13.968      | 2015          | 2020        | 2032         | rVB      | 1511991        | 1606022       | 28.07%          | 4.913%        |
| 23        | 14.457      | 2095          | 2103        | 2109         | rVB5     | 51434          | 128190        | 2.24%           | 0.392%        |
| 24        | 14.609      | 2124          | 2129        | 2135         | rVB2     | 40552          | 61254         | 1.07%           | 0.187%        |
| 25        | 14.815      | 2160          | 2164        | 2169         | rVB      | 103005         | 99553         | 1.74%           | 0.305%        |
| 26        | 15.074      | 2204          | 2208        | 2212         | rBV      | 57143          | 73603         | 1.29%           | 0.225%        |
| 27        | 15.415      | 2260          | 2266        | 2282         | rBV      | 1195920        | 1658324       | 28.98%          | 5.073%        |
| 28        | 15.868      | 2339          | 2343        | 2349         | rVB      | 52232          | 75977         | 1.33%           | 0.232%        |
| 29        | 15.933      | 2349          | 2354        | 2367         | rBV3     | 93820          | 282048        | 4.93%           | 0.863%        |
| 30        | 16.362      | 2422          | 2427        | 2430         | rBV2     | 34757          | 61686         | 1.08%           | 0.189%        |
| 31        | 17.039      | 2536          | 2542        | 2552         | rBV9     | 28690          | 97246         | 1.70%           | 0.297%        |

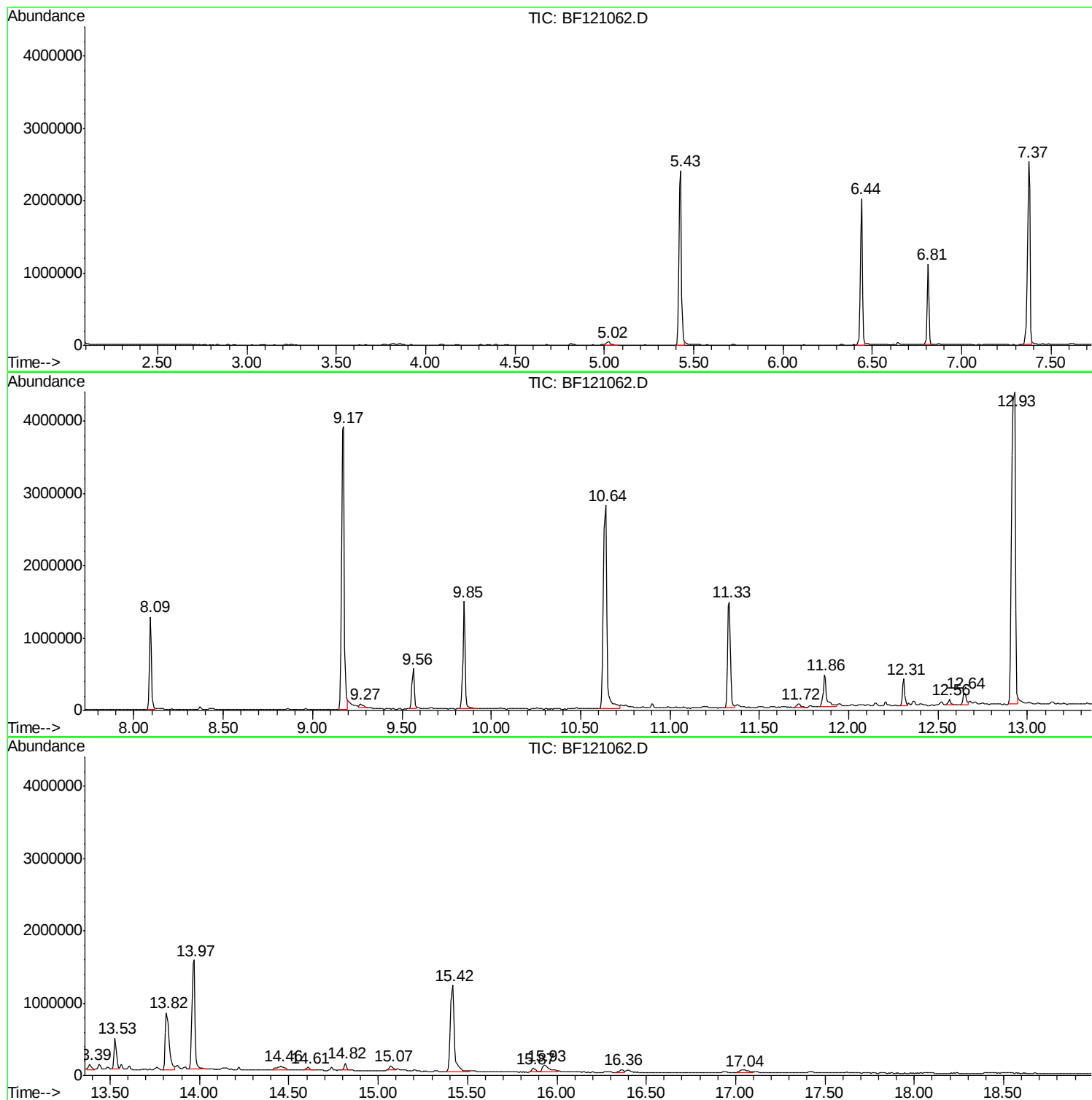
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Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071620.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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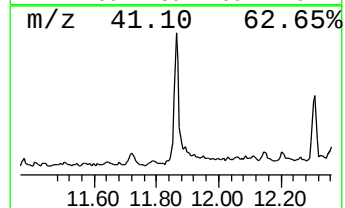
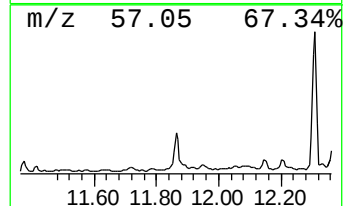
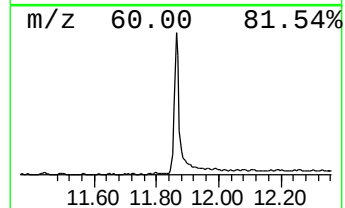
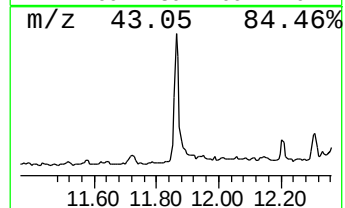
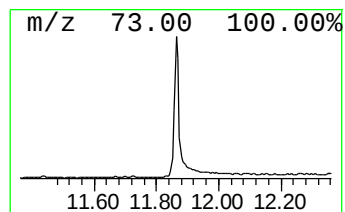
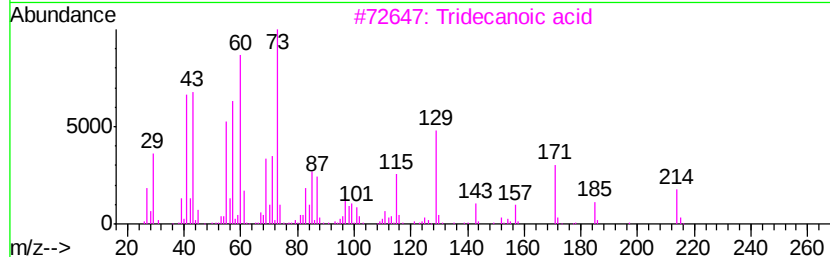
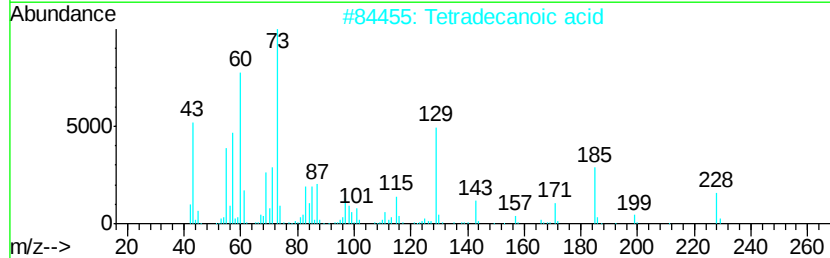
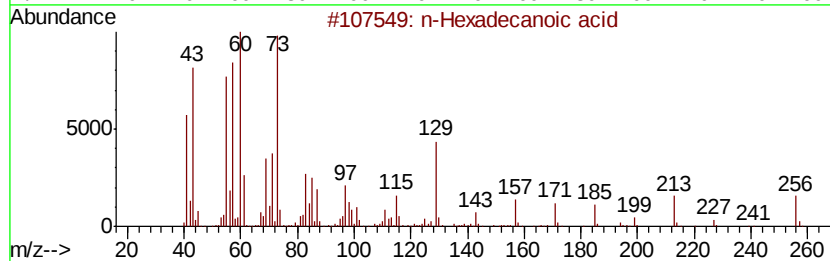
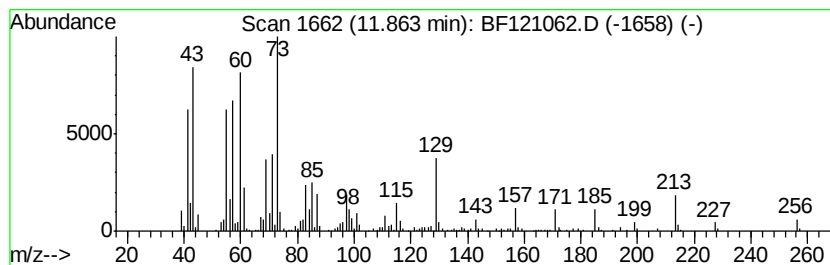
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ClientSampleId :  
FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T.    | EstConc             | Area         | Relative to ISTD |          | R.T.        |      |
|---------|---------------------|--------------|------------------|----------|-------------|------|
| 11.86   | 7.49 ng             | 554807       | Phenanthrene-d10 |          | 11.33       |      |
| Hit# of | 5                   | Tentative ID | MW               | MolForm  | CAS#        | Qual |
| 1       | n-Hexadecanoic acid |              | 256              | C16H32O2 | 000057-10-3 | 99   |
| 2       | Tetradecanoic acid  |              | 228              | C14H28O2 | 000544-63-8 | 94   |
| 3       | Tridecanoic acid    |              | 214              | C13H26O2 | 000638-53-9 | 94   |
| 4       | Pentadecanoic acid  |              | 242              | C15H30O2 | 001002-84-2 | 93   |
| 5       | Dodecanoic acid     |              | 200              | C12H24O2 | 000143-07-7 | 30   |



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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

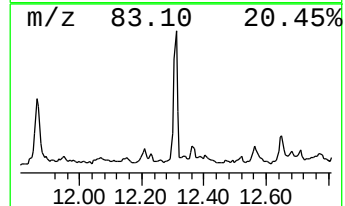
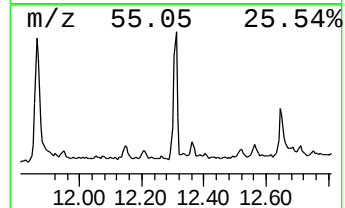
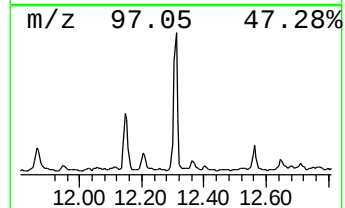
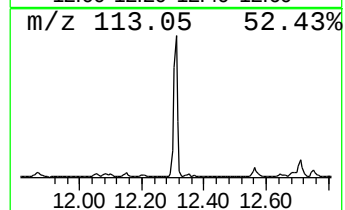
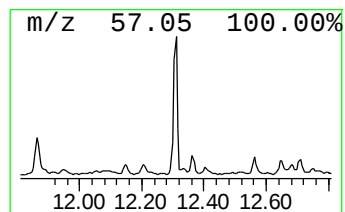
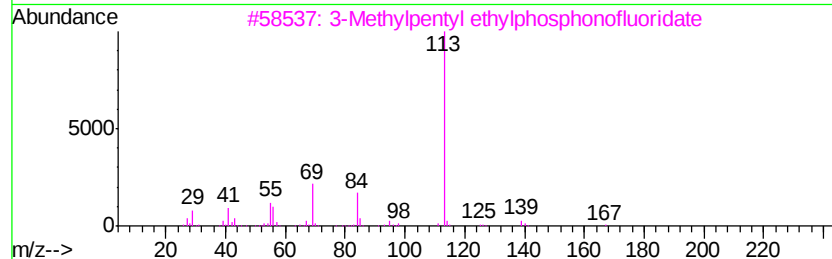
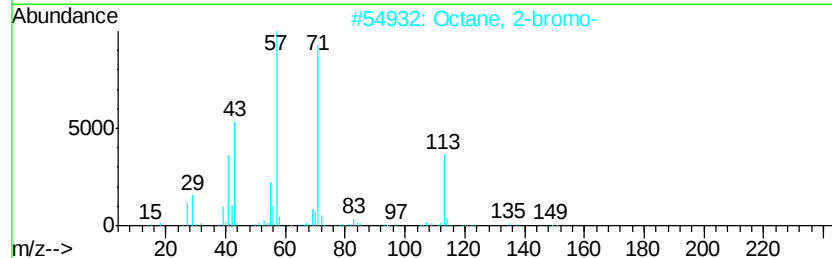
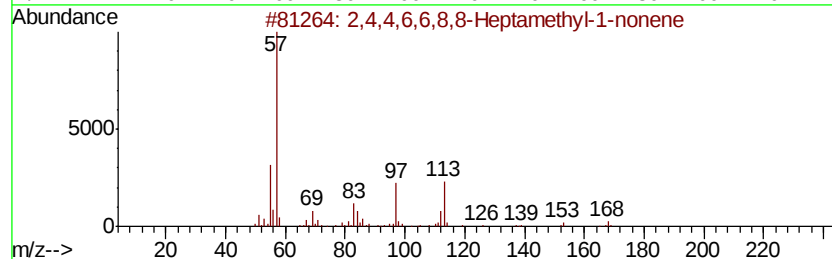
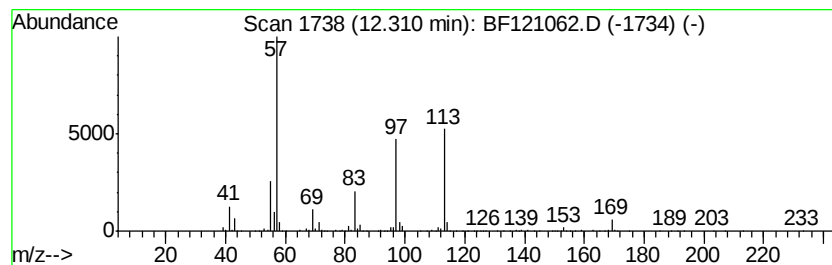
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 2 unknown12.31 Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.31 | 4.44 ng | 328575 | Phenanthrene-d10 | 11.33 |

| Hit# | of | Tentative ID                            | MW  | MolForm    | CAS#         | Qual |
|------|----|-----------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2,4,4,6,6,8,8-Heptamethyl-1-nonene      | 224 | C16H32     | 015796-04-0  | 43   |
| 2    |    | Octane, 2-bromo-                        | 192 | C8H17Br    | 000557-35-7  | 37   |
| 3    |    | 3-Methylpentyl ethylphosphonofluoridate | 196 | C8H18F02P  | 1000298-39-1 | 27   |
| 4    |    | 2,4,4-Trimethyl-1-pentanol, pent...     | 276 | C11H17F5O2 | 1000365-51-0 | 27   |
| 5    |    | Sulfurous acid, di(2-ethylhexyl)...     | 306 | C16H34O3S  | 1000309-19-1 | 25   |



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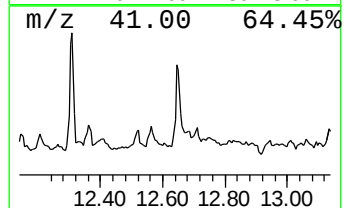
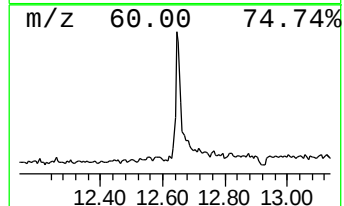
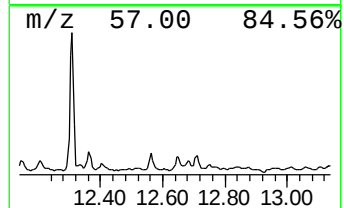
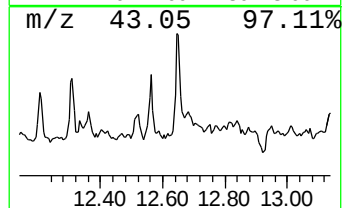
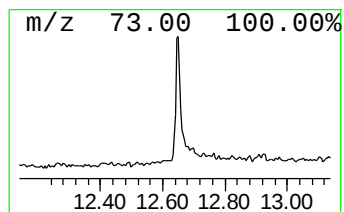
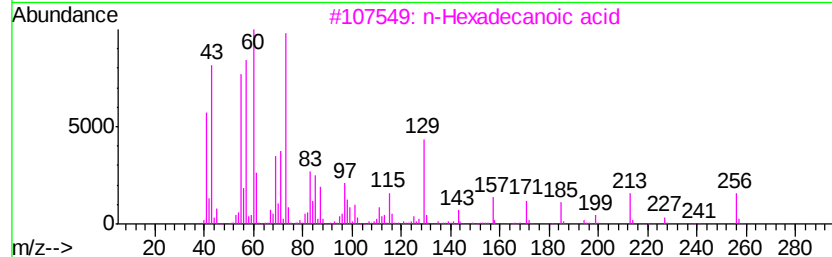
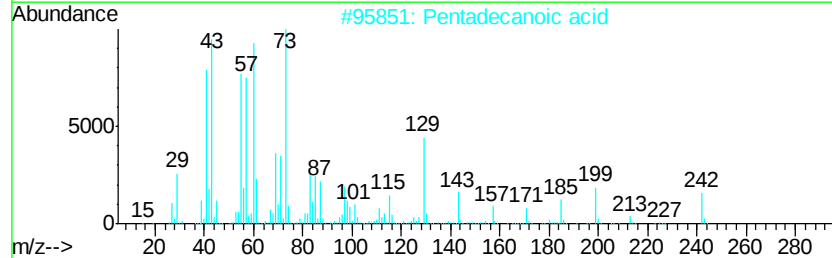
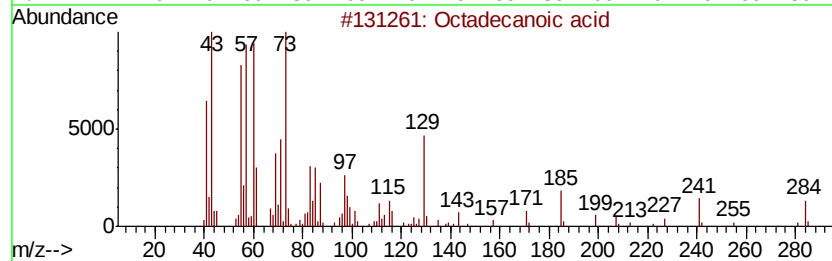
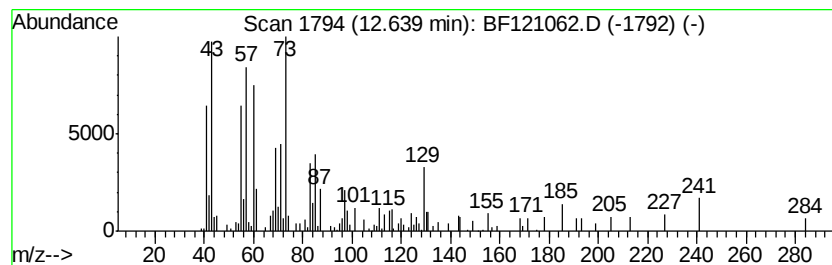
Instrument :  
BNA\_F  
ClientSampleId :  
FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.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 Octadecanoic acid Concentration Rank 6

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 12.64     | 2.57 ng             | 190191 | Phenanthrene-d10 |             | 11.33 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 98    |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 93    |
| 3         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 87    |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83    |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 68    |



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 BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

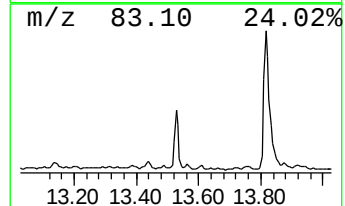
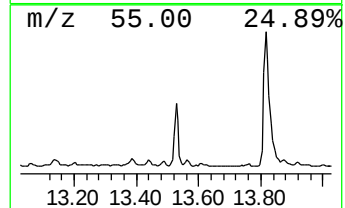
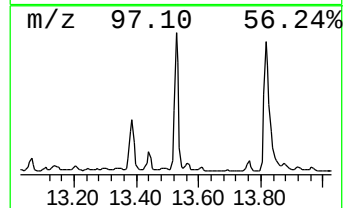
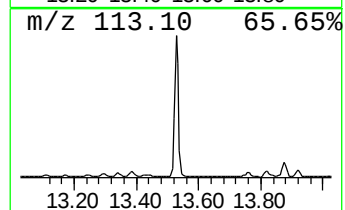
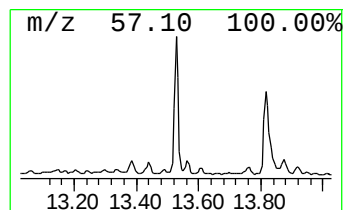
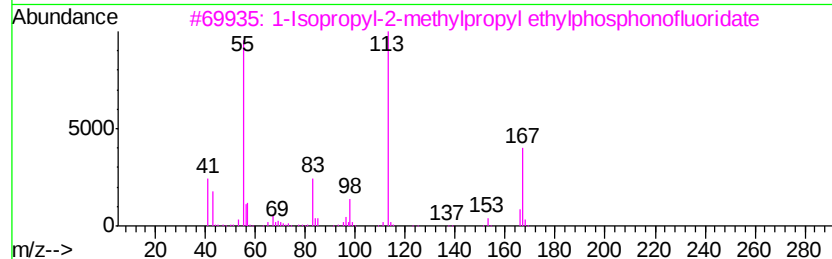
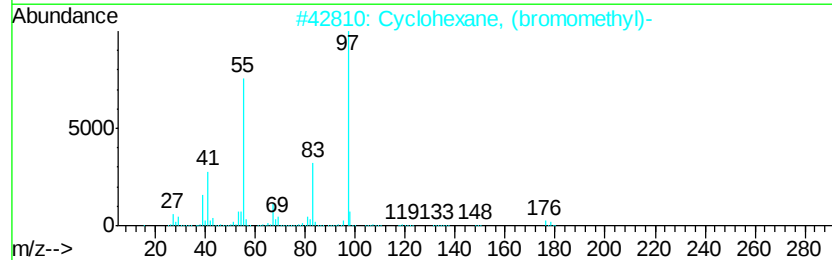
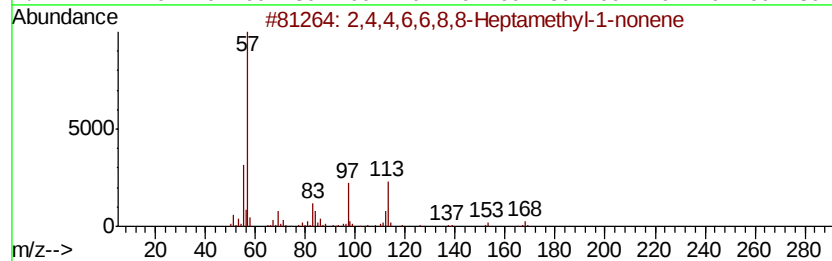
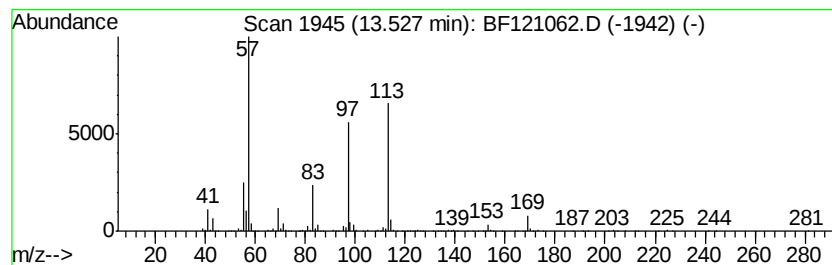
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 4 unknown13.53 Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.53 | 4.77 ng | 382955 | Chrysene-d12     | 13.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 2,4,4,6,6,8,8-Heptamethyl-1-nonene  | 224 | C16H32    | 015796-04-0  | 37   |
| 2    |    | Cyclohexane, (bromomethyl)-         | 176 | C7H13Br   | 002550-36-9  | 35   |
| 3    |    | 1-Isopropyl-2-methylpropyl ethyl... | 210 | C9H20F02P | 1000298-33-2 | 32   |
| 4    |    | 5-Nonanone, 2,2,8,8-tetramethyl-    | 198 | C13H26O   | 005709-95-5  | 25   |
| 5    |    | Oxazole, 2,4-dimethyl-              | 97  | C5H7NO    | 007208-05-1  | 22   |



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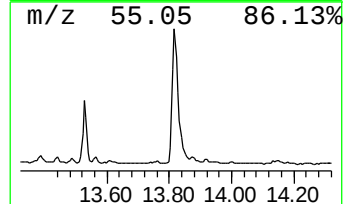
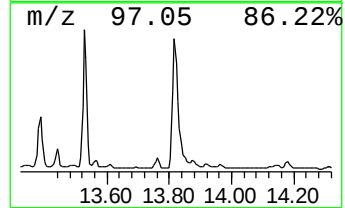
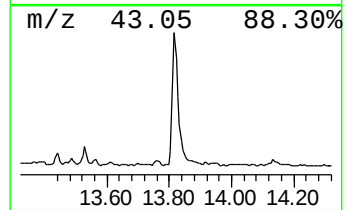
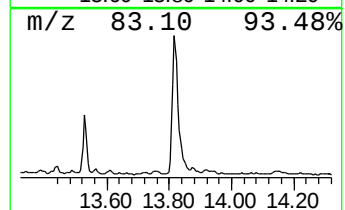
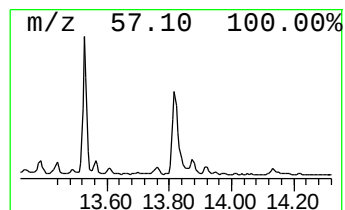
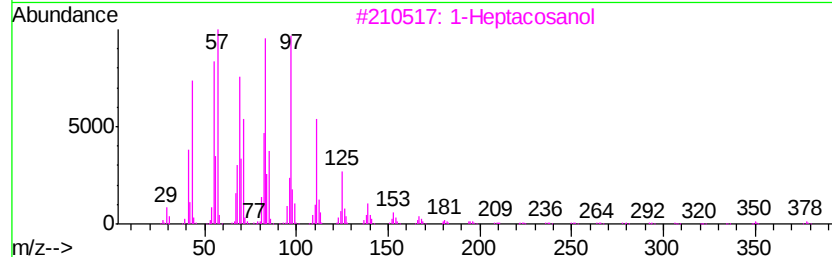
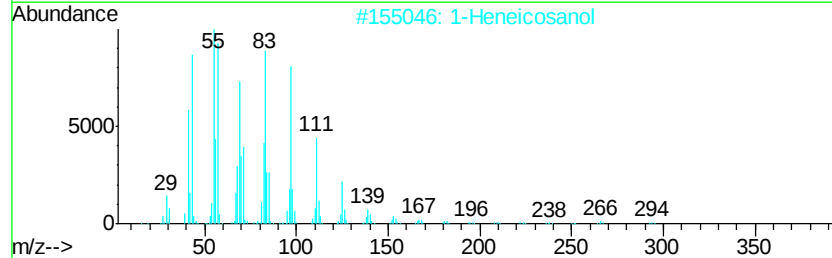
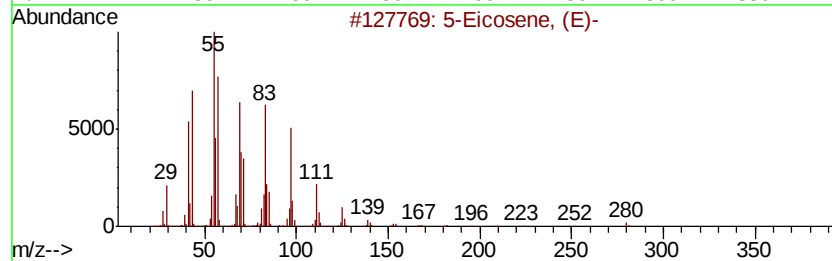
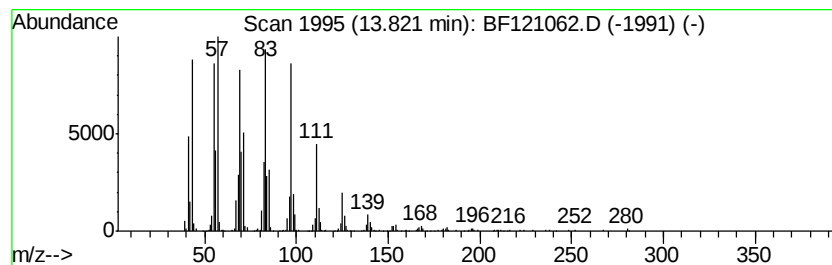
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 5-Eicosene, (E)- Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.82 | 13.54 ng | 1087140 | Chrysene-d12     | 13.97 |

| Hit# of | 5                                  | Tentative ID | MW  | MolForm    | CAS#        | Qual |
|---------|------------------------------------|--------------|-----|------------|-------------|------|
| 1       | 5-Eicosene, (E)-                   |              | 280 | C20H40     | 074685-30-6 | 99   |
| 2       | 1-Heneicosanol                     |              | 312 | C21H44O    | 015594-90-8 | 95   |
| 3       | 1-Heptacosanol                     |              | 396 | C27H56O    | 002004-39-9 | 94   |
| 4       | 2-Chloropropionic acid, octadec... |              | 360 | C21H41ClO2 | 088104-31-8 | 94   |
| 5       | n-Nonadecanol-1                    |              | 284 | C19H40O    | 001454-84-8 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072820\  
Data File : BF121062.D  
Acq On : 28 Jul 2020 11:18  
Operator : JU/CG  
Sample : L3410-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

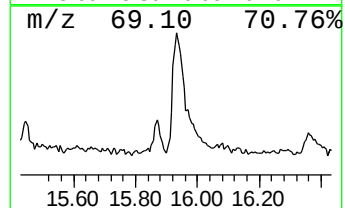
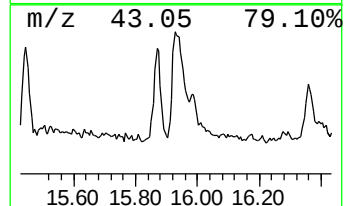
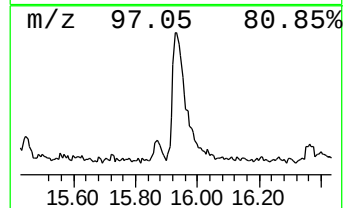
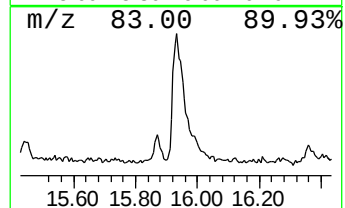
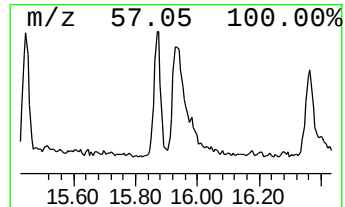
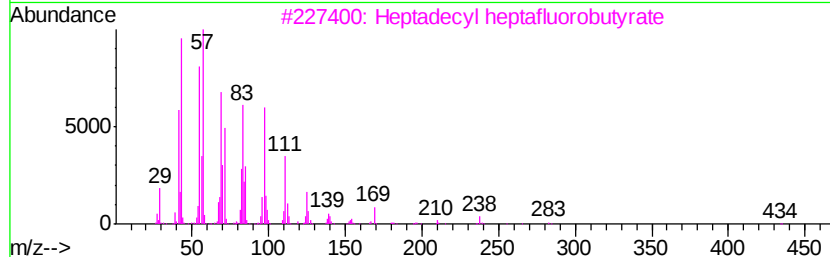
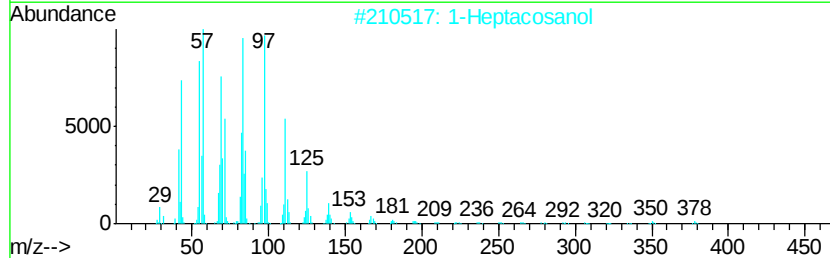
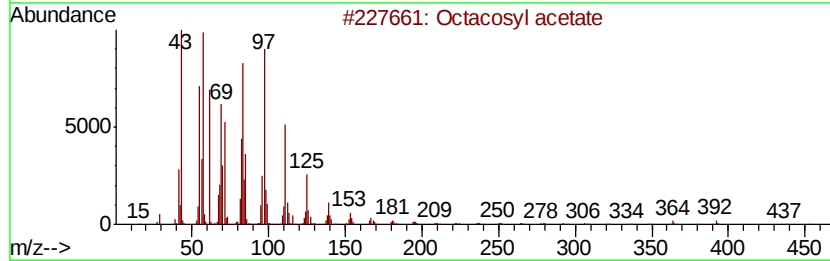
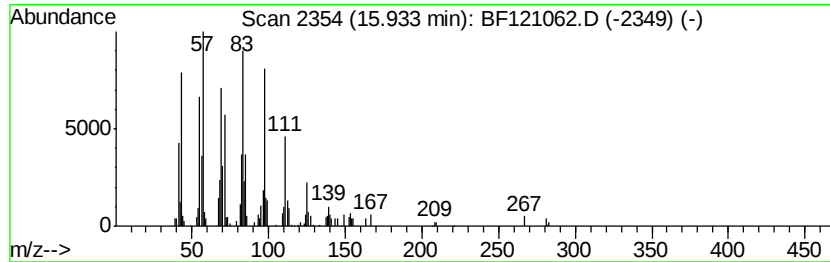
Instrument :  
BNA\_F  
ClientSampleId :  
FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Octacosyl acetate Concentration Rank 5

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------|--------|------------------|--------------|------|
| 15.93     | 3.40 ng                        | 282048 | Perylene-d12     | 15.42        |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#         | Qual |
| 1         | Octacosyl acetate              | 452    | C30H60O2         | 018206-97-8  | 95   |
| 2         | 1-Heptacosanol                 | 396    | C27H56O          | 002004-39-9  | 95   |
| 3         | Heptadecyl heptafluorobutvrate | 452    | C21H35F7O2       | 959085-66-6  | 94   |
| 4         | Heptacosyl acetate             | 438    | C29H58O2         | 1000351-78-2 | 94   |
| 5         | Triacetyl acetate              | 480    | C32H64O2         | 041755-58-2  | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072820\  
Data File : BF121062.D  
Acq On : 28 Jul 2020 11:18  
Operator : JU/CG  
Sample : L3410-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FM-FRAC

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071620.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 |
| n-Hexadecanoic acid | 11.86 | 7.5     | ng    | 554807   | 4                     | 11.33 | 1481660 | 20.0 |
| unknown12.31        | 12.31 | 4.4     | ng    | 328575   | 4                     | 11.33 | 1481660 | 20.0 |
| Octadecanoic acid   | 12.64 | 2.6     | ng    | 190191   | 4                     | 11.33 | 1481660 | 20.0 |
| unknown13.53        | 13.53 | 4.8     | ng    | 382955   | 5                     | 13.97 | 1606020 | 20.0 |
| 5-Eicosene, (E)-    | 13.82 | 13.5    | ng    | 1087140  | 5                     | 13.97 | 1606020 | 20.0 |
| Octacosyl acetate   | 15.93 | 3.4     | ng    | 282048   | 6                     | 15.42 | 1658320 | 20.0 |