

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
 Data File : BF113918.D  
 Acq On : 23 Apr 2019 14:21  
 Operator : JU/SJ  
 Sample : K2532-11  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3

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-BF042219.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         | 2.216       | 18            | 22          | 29           | rVB      | 50908          | 76301         | 1.84%           | 0.217%        |
| 2         | 5.528       | 579           | 585         | 588          | rBV      | 3327822        | 3318145       | 80.14%          | 9.453%        |
| 3         | 6.528       | 749           | 755         | 758          | rBV      | 3207865        | 3417711       | 82.54%          | 9.737%        |
| 4         | 6.669       | 774           | 779         | 782          | rBV      | 3632610        | 3578720       | 86.43%          | 10.195%       |
| 5         | 6.898       | 814           | 818         | 821          | rBV      | 1024015        | 813210        | 19.64%          | 2.317%        |
| 6         | 7.057       | 840           | 845         | 848          | rBV      | 3298815        | 2851823       | 68.88%          | 8.124%        |
| 7         | 7.457       | 907           | 913         | 916          | rBV      | 2236495        | 2210665       | 53.39%          | 6.298%        |
| 8         | 8.175       | 1031          | 1035        | 1039         | rBV      | 1086000        | 1000716       | 24.17%          | 2.851%        |
| 9         | 9.251       | 1213          | 1218        | 1222         | rBV      | 4095693        | 4140498       | 100.00%         | 11.796%       |
| 10        | 9.639       | 1281          | 1284        | 1289         | rBV      | 571707         | 466489        | 11.27%          | 1.329%        |
| 11        | 9.933       | 1330          | 1334        | 1345         | rVB      | 1394456        | 1218969       | 29.44%          | 3.473%        |
| 12        | 10.722      | 1463          | 1468        | 1471         | rBV      | 2845216        | 2656809       | 64.17%          | 7.569%        |
| 13        | 11.416      | 1582          | 1586        | 1589         | rBV      | 1473294        | 1269633       | 30.66%          | 3.617%        |
| 14        | 11.939      | 1667          | 1675        | 1687         | rBV      | 393646         | 440406        | 10.64%          | 1.255%        |
| 15        | 12.627      | 1789          | 1792        | 1795         | rBV      | 75027          | 72937         | 1.76%           | 0.208%        |
| 16        | 12.727      | 1804          | 1809        | 1823         | rBV      | 339674         | 408731        | 9.87%           | 1.164%        |
| 17        | 12.857      | 1826          | 1831        | 1833         | rBV      | 46742          | 41884         | 1.01%           | 0.119%        |
| 18        | 13.004      | 1851          | 1856        | 1859         | rBV      | 4014587        | 3761035       | 90.84%          | 10.715%       |
| 19        | 14.010      | 2020          | 2027        | 2032         | rBV3     | 120652         | 341914        | 8.26%           | 0.974%        |
| 20        | 14.063      | 2032          | 2036        | 2040         | rVB      | 925168         | 951001        | 22.97%          | 2.709%        |
| 21        | 14.239      | 2063          | 2066        | 2069         | rBV      | 70000          | 61848         | 1.49%           | 0.176%        |
| 22        | 14.562      | 2115          | 2121        | 2125         | rBV      | 108346         | 111383        | 2.69%           | 0.317%        |
| 23        | 14.880      | 2171          | 2175        | 2180         | rBV      | 150524         | 150226        | 3.63%           | 0.428%        |
| 24        | 15.227      | 2230          | 2234        | 2241         | rVB      | 188873         | 214258        | 5.17%           | 0.610%        |
| 25        | 15.574      | 2288          | 2293        | 2297         | rBV      | 752144         | 940203        | 22.71%          | 2.678%        |
| 26        | 15.615      | 2297          | 2300        | 2307         | rVB      | 169856         | 231730        | 5.60%           | 0.660%        |
| 27        | 16.068      | 2372          | 2377        | 2382         | rVB      | 139961         | 203844        | 4.92%           | 0.581%        |
| 28        | 16.586      | 2461          | 2465        | 2477         | rVB2     | 77942          | 150808        | 3.64%           | 0.430%        |

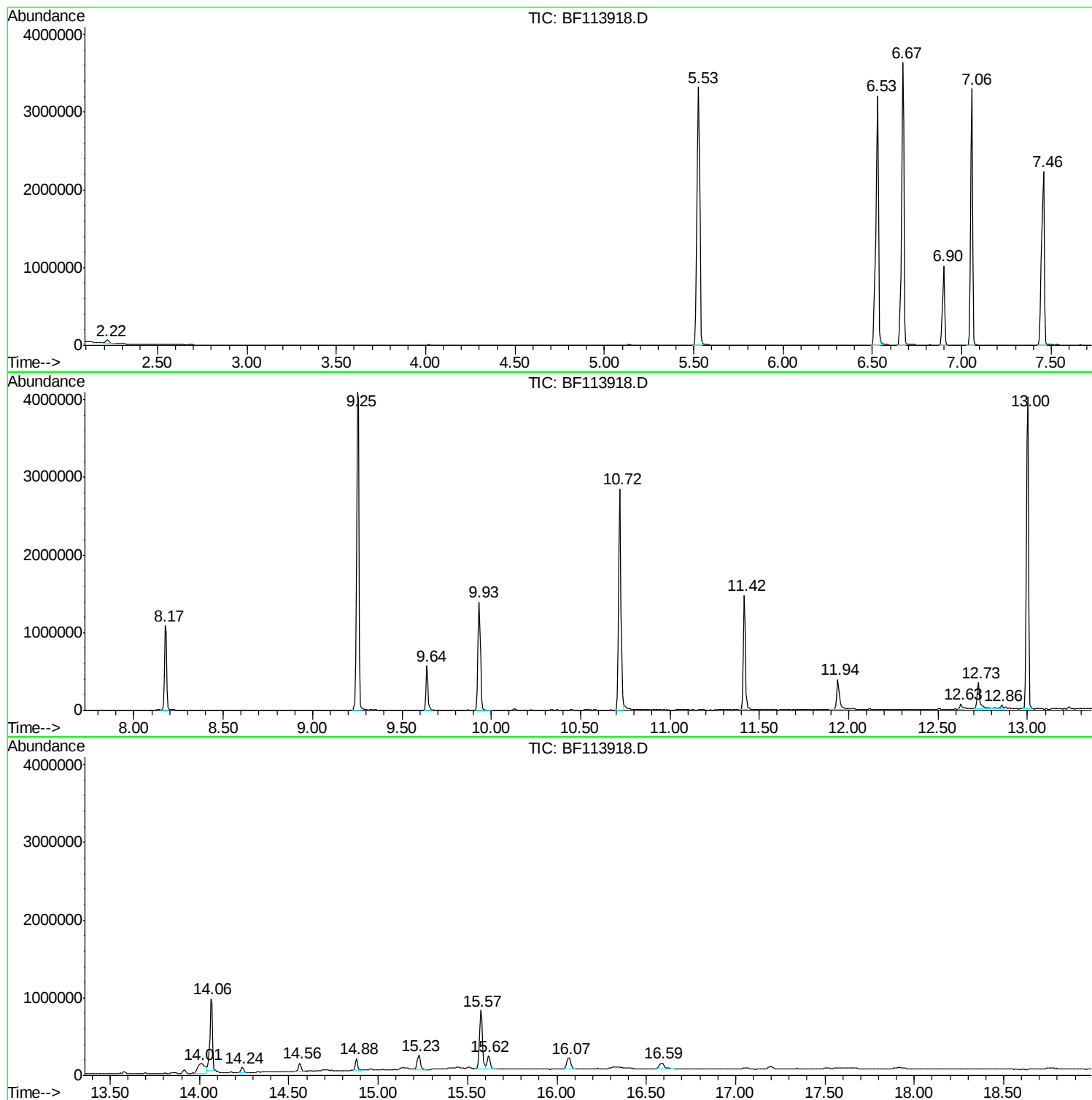
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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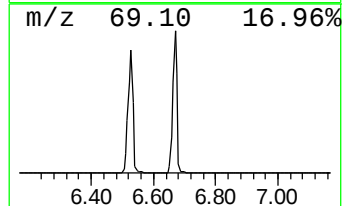
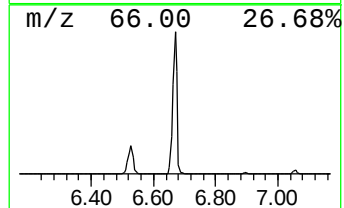
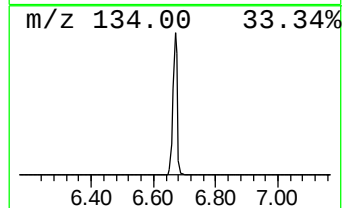
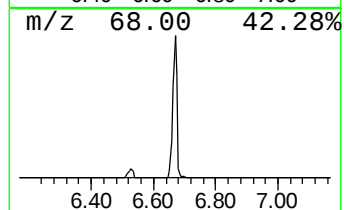
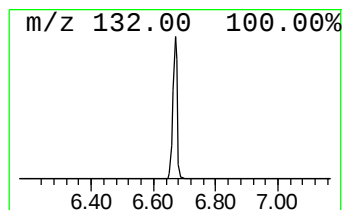
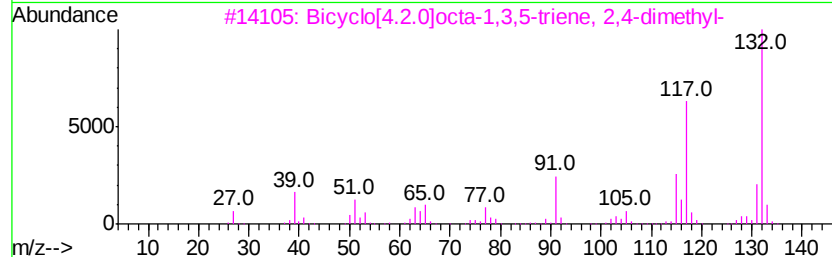
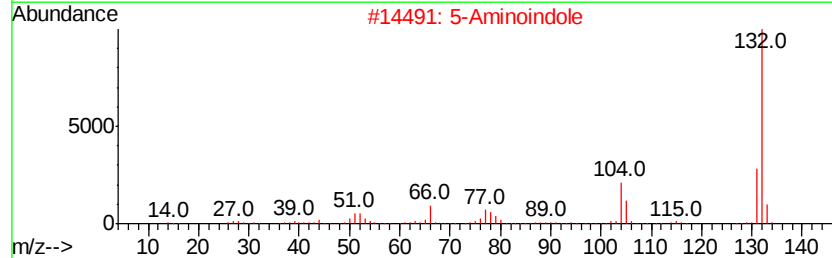
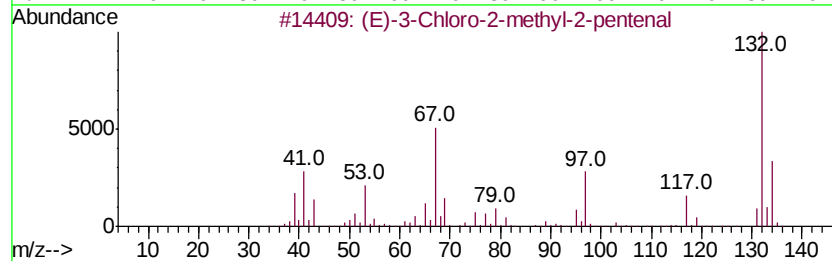
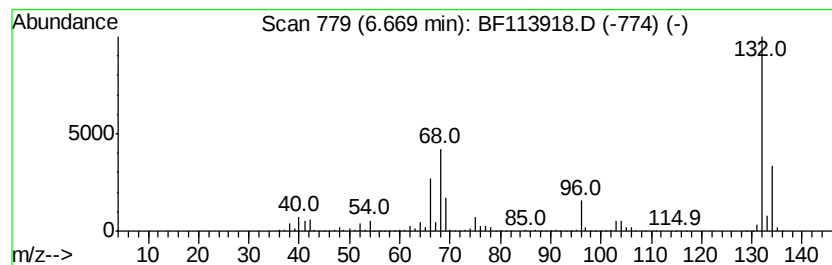
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 88.01 ng | 3578720 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3 | 17   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0 | 12   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7 | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6 | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5 | 9    |



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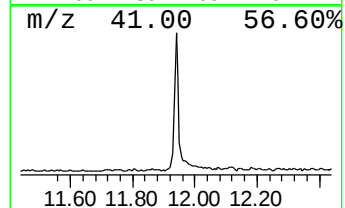
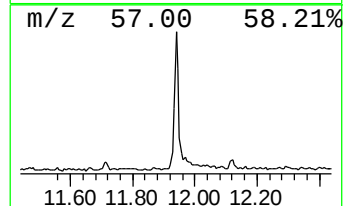
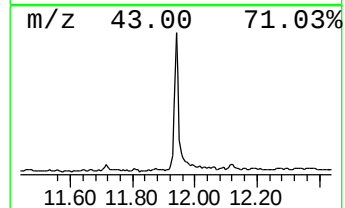
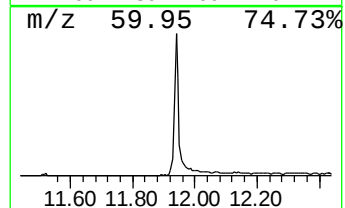
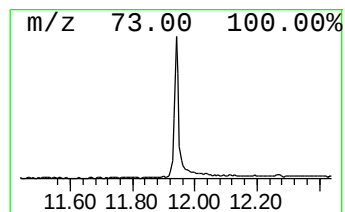
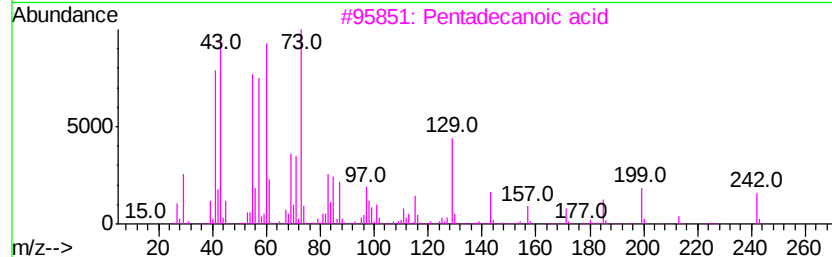
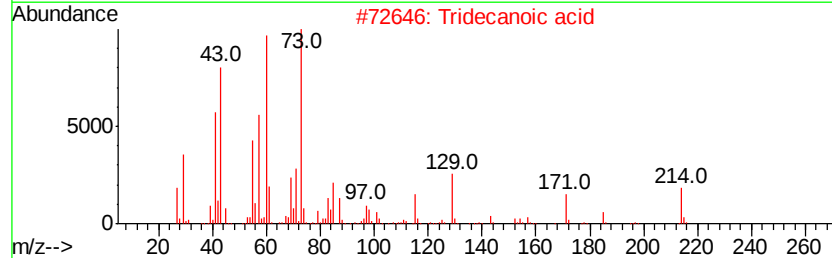
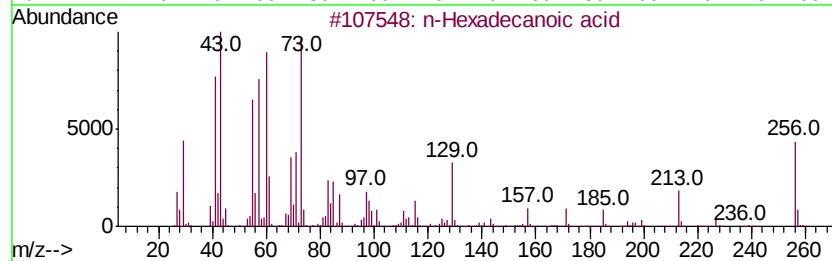
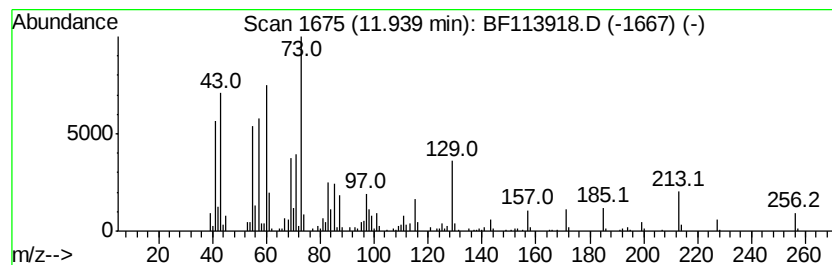
Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T.      | EstConc                           | Area   | Relative to ISTD | R.T.         |      |
|-----------|-----------------------------------|--------|------------------|--------------|------|
| 11.94     | 6.94 ng                           | 440406 | Phenanthrene-d10 | 11.42        |      |
| Hit# of 5 | Tentative ID                      | MW     | MolForm          | CAS#         | Qual |
| 1         | n-Hexadecanoic acid               | 256    | C16H32O2         | 000057-10-3  | 98   |
| 2         | Tridecanoic acid                  | 214    | C13H26O2         | 000638-53-9  | 91   |
| 3         | Pentadecanoic acid                | 242    | C15H30O2         | 001002-84-2  | 76   |
| 4         | Nonanoic acid                     | 158    | C9H18O2          | 000112-05-0  | 38   |
| 5         | Oxalic acid, dodecyl propyl ester | 300    | C17H32O4         | 1000309-26-5 | 25   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
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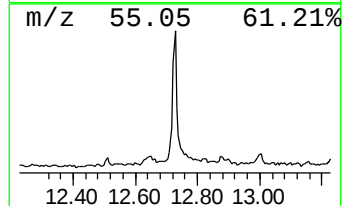
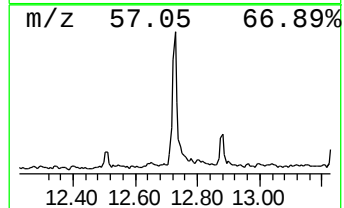
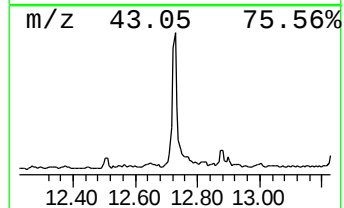
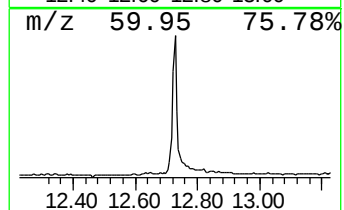
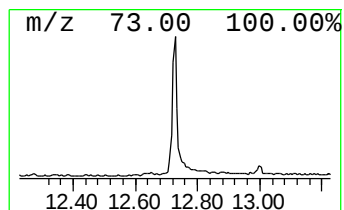
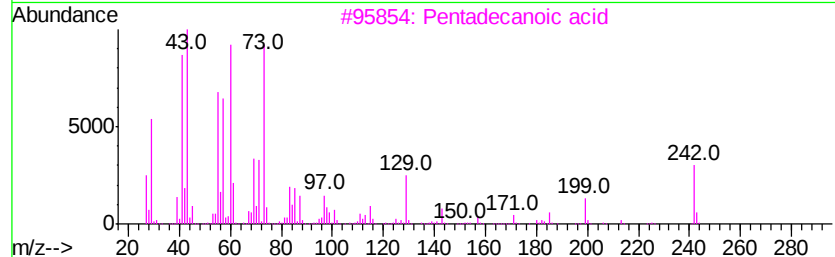
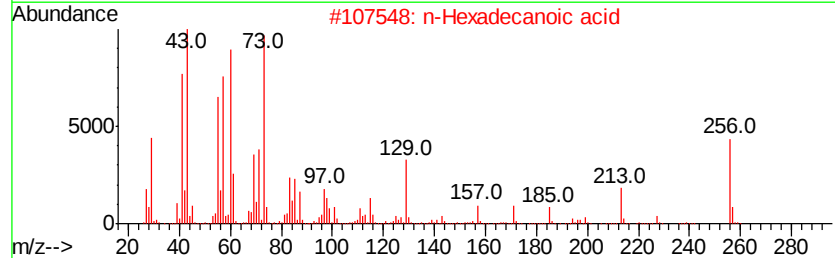
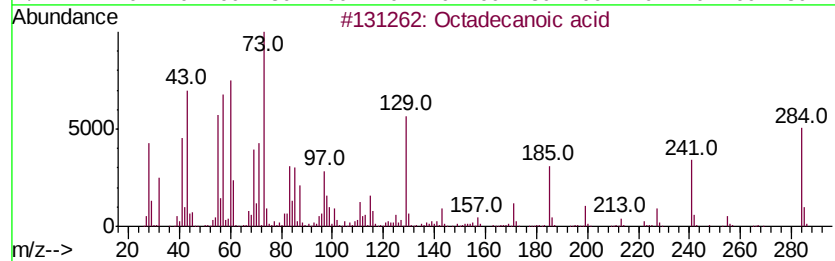
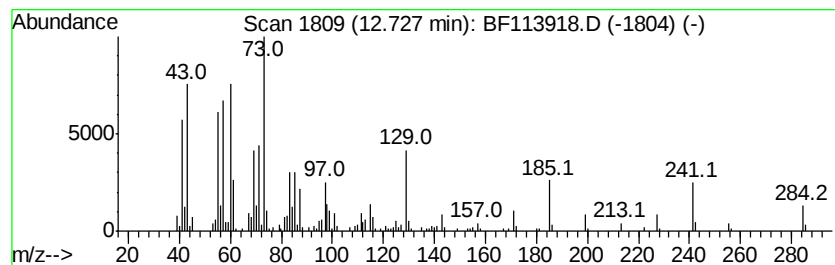
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.73 | 6.44 ng | 408731 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|-----------|---------------------|-----|----------|-------------|------|
| 1         | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2         | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93   |
| 3         | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 4         | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 5         | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



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ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

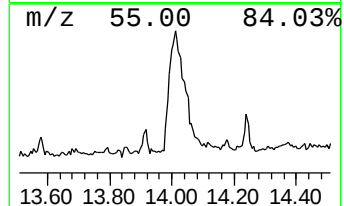
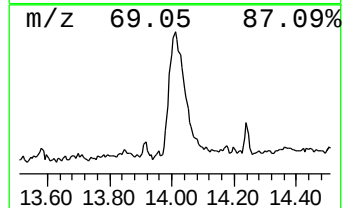
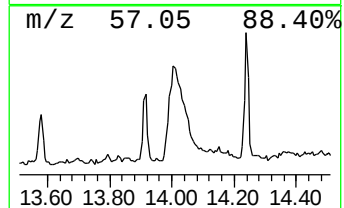
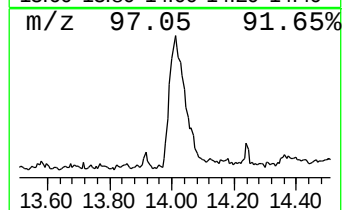
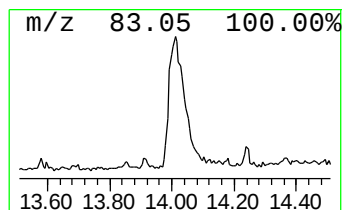
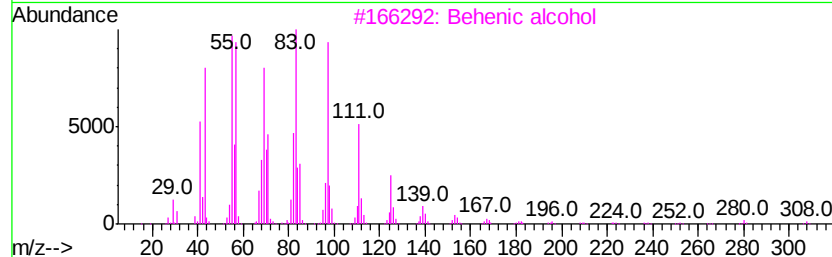
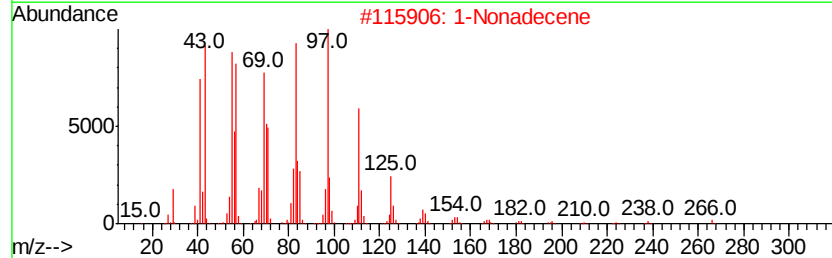
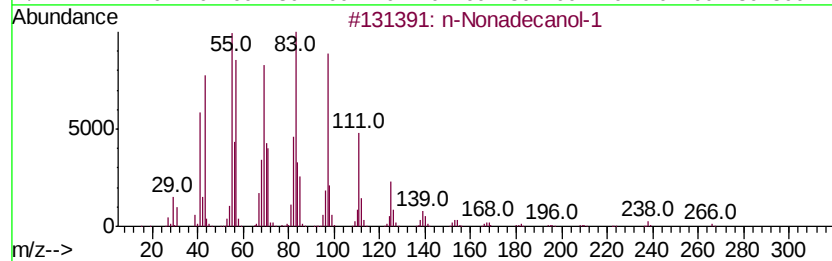
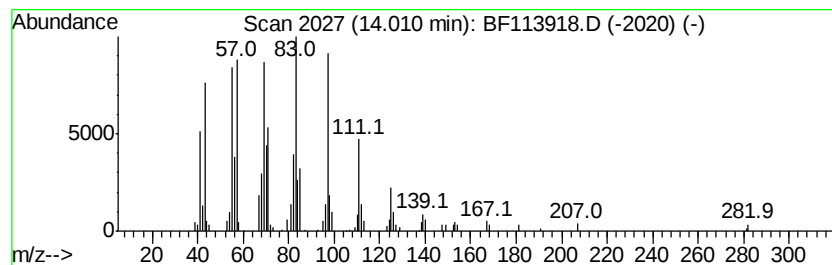
TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 5 n-Nonadecanol-1 Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.01 | 7.19 ng | 341914 | Chrysene-d12     | 14.06 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8 | 95   |
| 2       |   | 1-Nonadecene                        | 266 | C19H38     | 018435-45-5 | 94   |
| 3       |   | Behenic alcohol                     | 326 | C22H46O    | 000661-19-8 | 94   |
| 4       |   | 1-Heptacosanol                      | 396 | C27H56O    | 002004-39-9 | 94   |
| 5       |   | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 93   |



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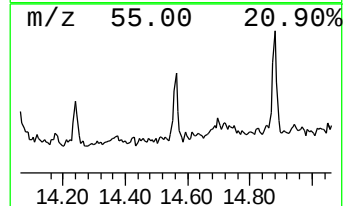
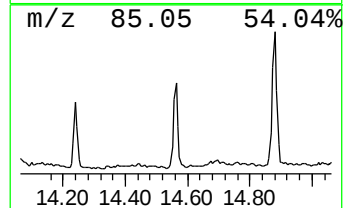
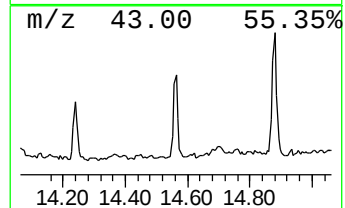
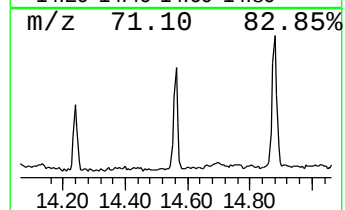
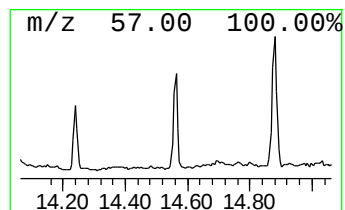
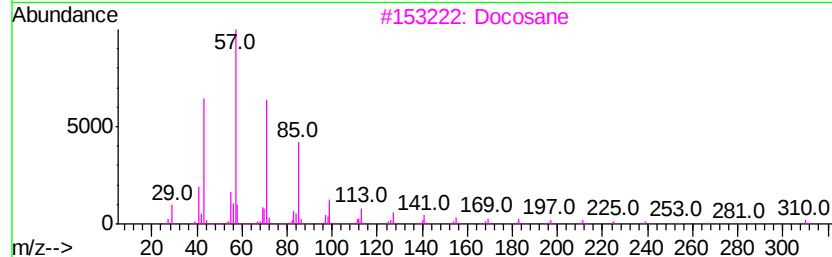
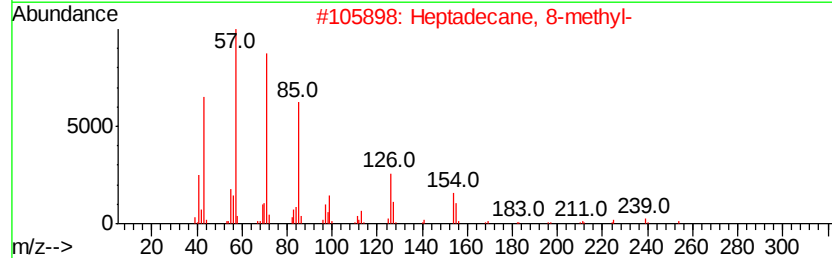
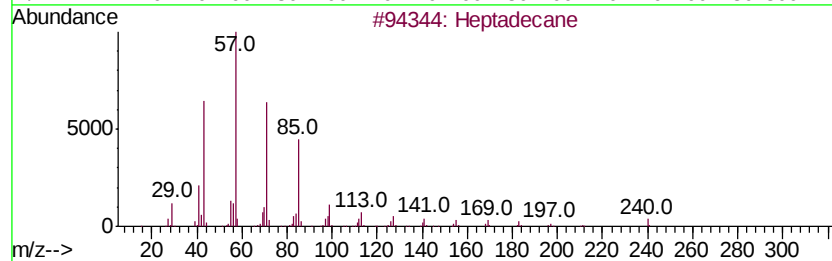
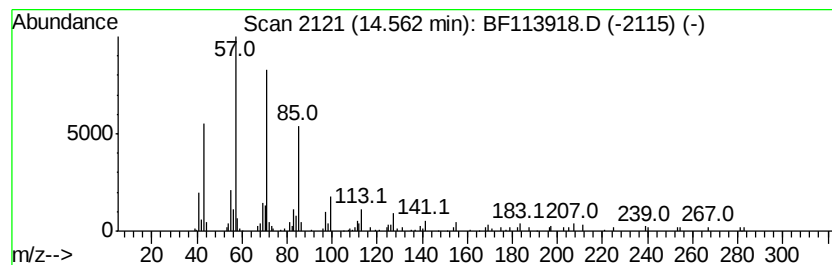
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptadecane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.56 | 2.34 ng | 111383 | Chrysene-d12     | 14.06 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane            | 240 | C17H36  | 000629-78-7 | 94   |
| 2    |    | Heptadecane, 8-methyl- | 254 | C18H38  | 013287-23-5 | 94   |
| 3    |    | Docosane               | 310 | C22H46  | 000629-97-0 | 91   |
| 4    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Triacontane            | 422 | C30H62  | 000638-68-6 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
Data File : BF113918.D  
Acq On : 23 Apr 2019 14:21  
Operator : JU/SJ  
Sample : K2532-11  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

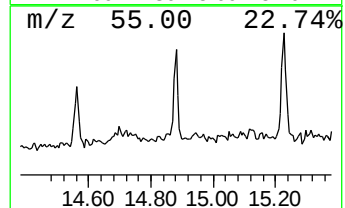
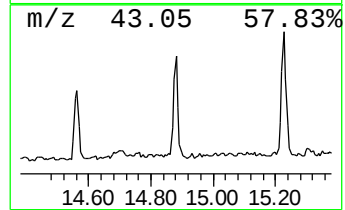
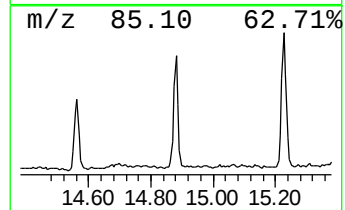
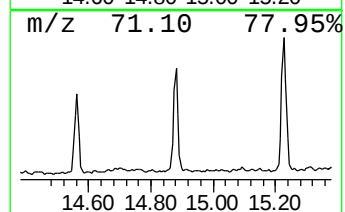
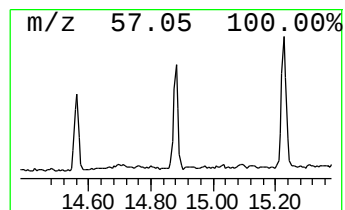
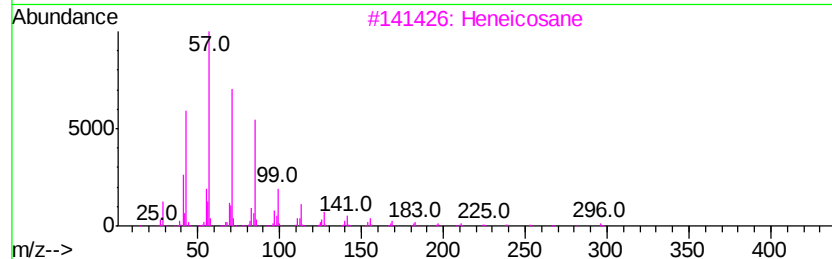
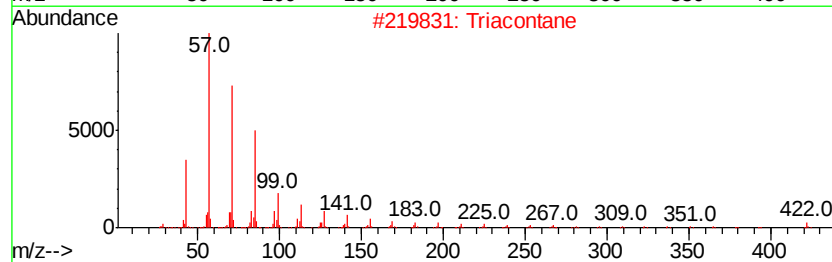
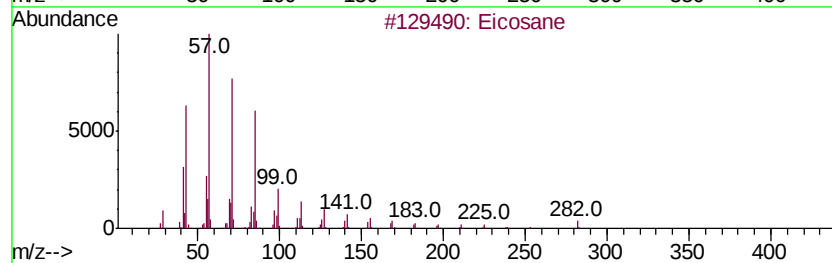
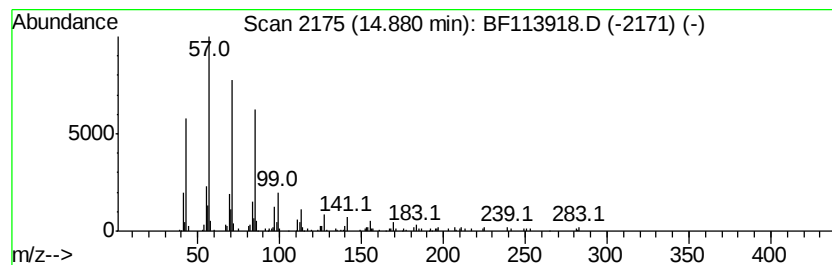
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Eicosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.88 | 3.20 ng | 150226 | Perylene-d12     | 15.57 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Eicosane           | 282 | C20H42  | 000112-95-8  | 96   |
| 2    |    | Triacontane        | 422 | C30H62  | 000638-68-6  | 91   |
| 3    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 4    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 5    |    | Octacosane         | 394 | C28H58  | 000630-02-4  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
Data File : BF113918.D  
Acq On : 23 Apr 2019 14:21  
Operator : JU/SJ  
Sample : K2532-11  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

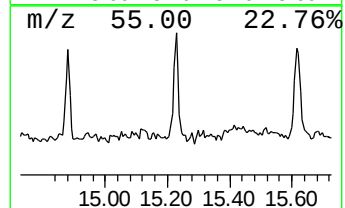
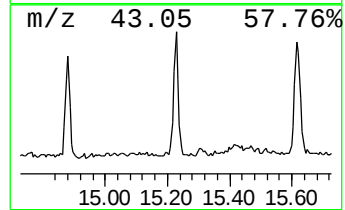
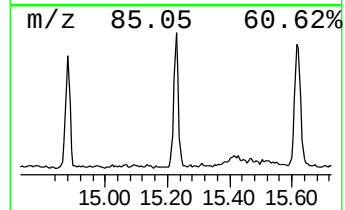
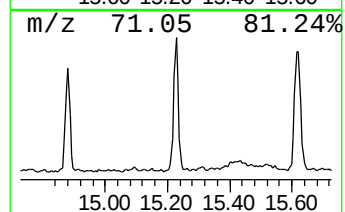
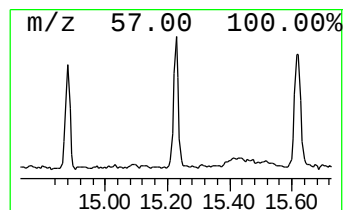
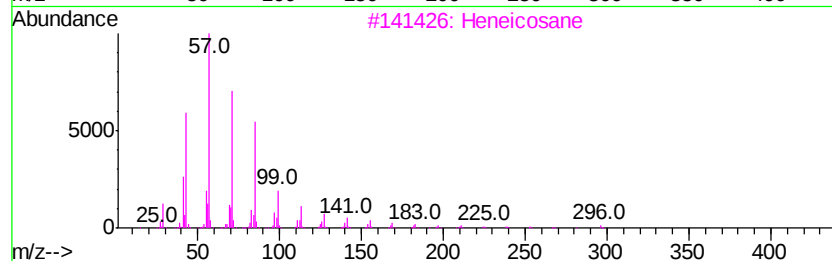
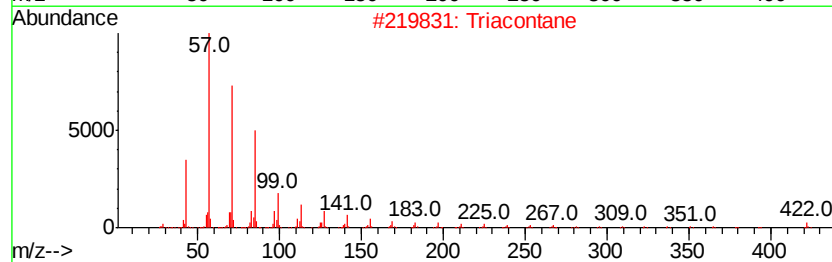
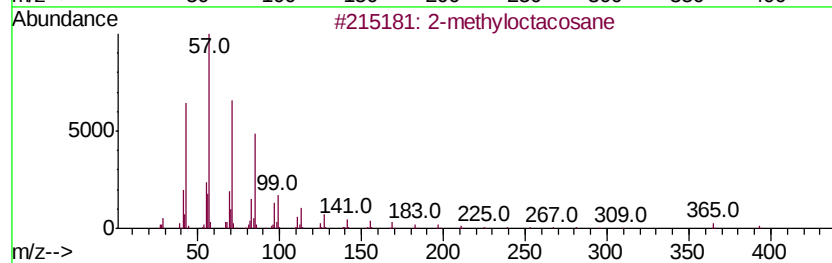
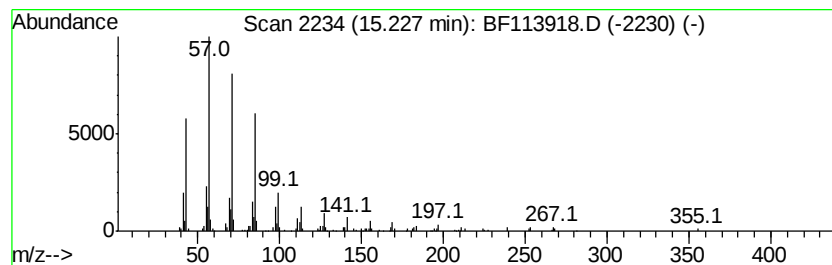
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 2-methyloctacosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.23 | 4.56 ng | 214258 | Perylene-d12     | 15.57 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|---------------------|--------------|-----|---------|--------------|------|
| 1       | 2-methyloctacosane  |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 2       | Triacontane         |              | 422 | C30H62  | 000638-68-6  | 91   |
| 3       | Heneicosane         |              | 296 | C21H44  | 000629-94-7  | 91   |
| 4       | Docosane, 11-decyl- |              | 451 | C32H66  | 055401-55-3  | 91   |
| 5       | Docosane, 11-butyl- |              | 366 | C26H54  | 013475-76-8  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042319\  
Data File : BF113918.D  
Acq On : 23 Apr 2019 14:21  
Operator : JU/SJ  
Sample : K2532-11  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

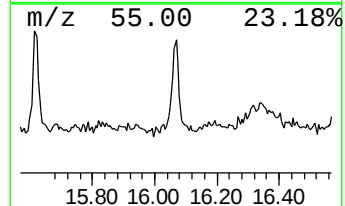
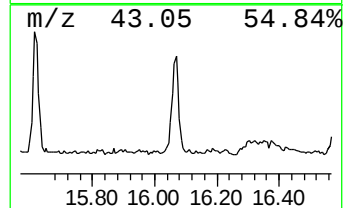
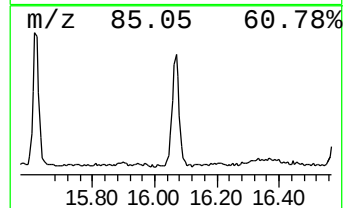
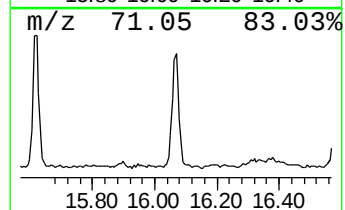
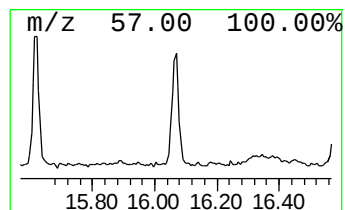
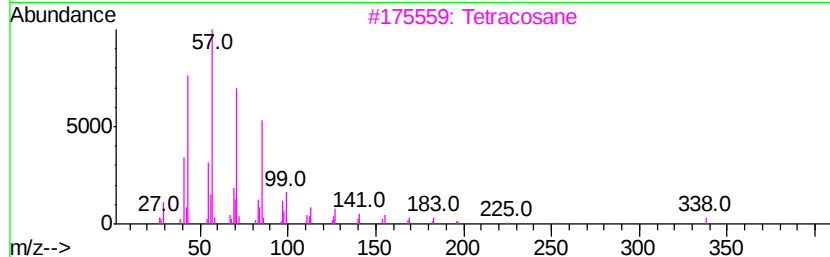
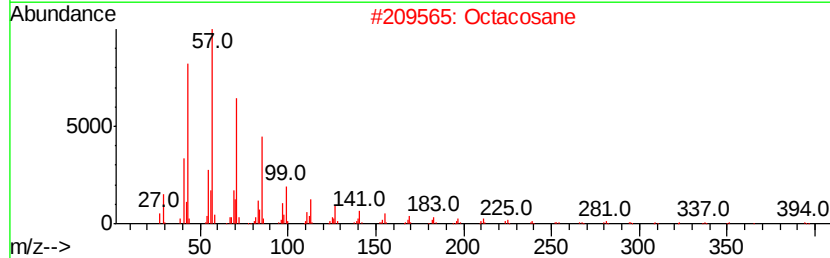
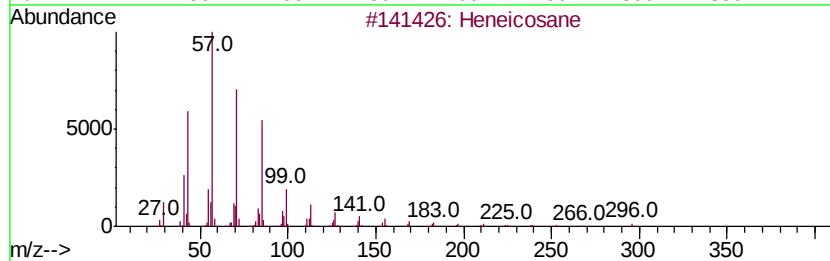
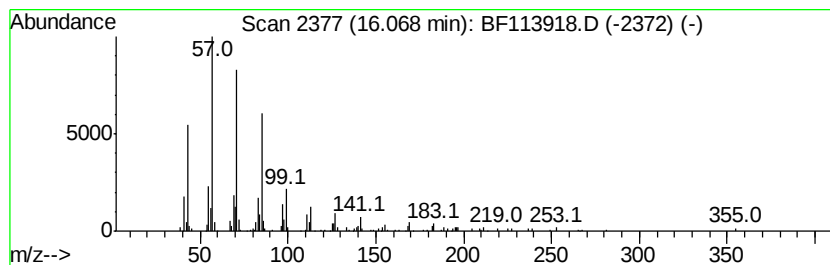
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heneicosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.07 | 4.34 ng | 203844 | Perylene-d12     | 15.57 |

| Hit# | of | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane     | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Octacosane      | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Tetracosane     | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Hexacosane      | 366 | C26H54  | 000630-01-3 | 91   |
| 5    |    | Hexatriacontane | 507 | C36H74  | 000630-06-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042319\  
Data File : BF113918.D  
Acq On : 23 Apr 2019 14:21  
Operator : JU/SJ  
Sample : K2532-11  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.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 |
| unknown6.67         | 6.67  | 88.0    | ng    | 3578720  | 1                     | 6.90  | 813210  | 20.0 |
| n-Hexadecanoic acid | 11.94 | 6.9     | ng    | 440406   | 4                     | 11.42 | 1269630 | 20.0 |
| Octadecanoic acid   | 12.73 | 6.4     | ng    | 408731   | 4                     | 11.42 | 1269630 | 20.0 |
| n-Nonadecanol-1     | 14.01 | 7.2     | ng    | 341914   | 5                     | 14.06 | 951001  | 20.0 |
| Heptadecane         | 14.56 | 2.3     | ng    | 111383   | 5                     | 14.06 | 951001  | 20.0 |
| Eicosane            | 14.88 | 3.2     | ng    | 150226   | 6                     | 15.57 | 940203  | 20.0 |
| 2-methyloctacosane  | 15.23 | 4.6     | ng    | 214258   | 6                     | 15.57 | 940203  | 20.0 |
| Heneicosane         | 16.07 | 4.3     | ng    | 203844   | 6                     | 15.57 | 940203  | 20.0 |