

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032419\  
 Data File : BF113267.D  
 Acq On : 24 Mar 2019 14:52  
 Operator : JU/SJ  
 Sample : K2058-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S3B(17-25)COMP

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

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

Signal : TIC

| peak<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         | 5.334       | 547           | 552         | 555          | rBV      | 3571125        | 3660256       | 81.98%          | 9.146%        |
| 2         | 6.363       | 722           | 727         | 743          | rBV      | 3504120        | 4074287       | 91.25%          | 10.181%       |
| 3         | 6.487       | 743           | 748         | 751          | rBV      | 4015020        | 3943114       | 88.32%          | 9.853%        |
| 4         | 6.710       | 783           | 786         | 795          | rBV      | 979388         | 823510        | 18.44%          | 2.058%        |
| 5         | 6.869       | 809           | 813         | 816          | rBV      | 3046631        | 2700239       | 60.48%          | 6.747%        |
| 6         | 7.275       | 877           | 882         | 885          | rBV      | 2383663        | 2446924       | 54.81%          | 6.114%        |
| 7         | 7.992       | 1000          | 1004        | 1010         | rBV      | 1021368        | 1004525       | 22.50%          | 2.510%        |
| 8         | 9.069       | 1182          | 1187        | 1201         | rBV      | 4000807        | 3962743       | 88.76%          | 9.902%        |
| 9         | 9.463       | 1250          | 1254        | 1263         | rVB      | 208175         | 200855        | 4.50%           | 0.502%        |
| 10        | 9.745       | 1298          | 1302        | 1317         | rVB      | 1284151        | 1214303       | 27.20%          | 3.034%        |
| 11        | 10.533      | 1431          | 1436        | 1451         | rBV      | 3131716        | 3310335       | 74.14%          | 8.272%        |
| 12        | 11.222      | 1549          | 1553        | 1567         | rBV      | 1290729        | 1367246       | 30.62%          | 3.416%        |
| 13        | 11.763      | 1641          | 1645        | 1658         | rBV      | 341493         | 408609        | 9.15%           | 1.021%        |
| 14        | 12.469      | 1759          | 1765        | 1774         | rBV4     | 26886          | 64982         | 1.46%           | 0.162%        |
| 15        | 12.545      | 1774          | 1778        | 1788         | rVV      | 116643         | 178246        | 3.99%           | 0.445%        |
| 16        | 12.621      | 1788          | 1791        | 1796         | rVB      | 86104          | 87340         | 1.96%           | 0.218%        |
| 17        | 12.810      | 1818          | 1823        | 1826         | rBV      | 4569141        | 4464763       | 100.00%         | 11.156%       |
| 18        | 13.733      | 1973          | 1980        | 1994         | rBV3     | 168185         | 509927        | 11.42%          | 1.274%        |
| 19        | 13.857      | 1996          | 2001        | 2009         | rVB      | 1285887        | 1362228       | 30.51%          | 3.404%        |
| 20        | 14.027      | 2026          | 2030        | 2034         | rBV      | 145644         | 135290        | 3.03%           | 0.338%        |
| 21        | 14.333      | 2075          | 2082        | 2087         | rBV      | 234895         | 266446        | 5.97%           | 0.666%        |
| 22        | 14.627      | 2128          | 2132        | 2139         | rVB      | 351101         | 352627        | 7.90%           | 0.881%        |
| 23        | 14.692      | 2140          | 2143        | 2149         | rVB      | 220541         | 218444        | 4.89%           | 0.546%        |
| 24        | 14.939      | 2181          | 2185        | 2192         | rBV      | 433577         | 496540        | 11.12%          | 1.241%        |
| 25        | 15.262      | 2235          | 2240        | 2243         | rBV      | 886975         | 1165979       | 26.12%          | 2.913%        |
| 26        | 15.292      | 2243          | 2245        | 2254         | rVB      | 504409         | 598455        | 13.40%          | 1.495%        |
| 27        | 15.692      | 2308          | 2313        | 2324         | rVB      | 362275         | 561277        | 12.57%          | 1.402%        |
| 28        | 16.157      | 2387          | 2392        | 2403         | rVB      | 182958         | 350009        | 7.84%           | 0.875%        |
| 29        | 16.698      | 2480          | 2484        | 2490         | rVB      | 51627          | 90453         | 2.03%           | 0.226%        |

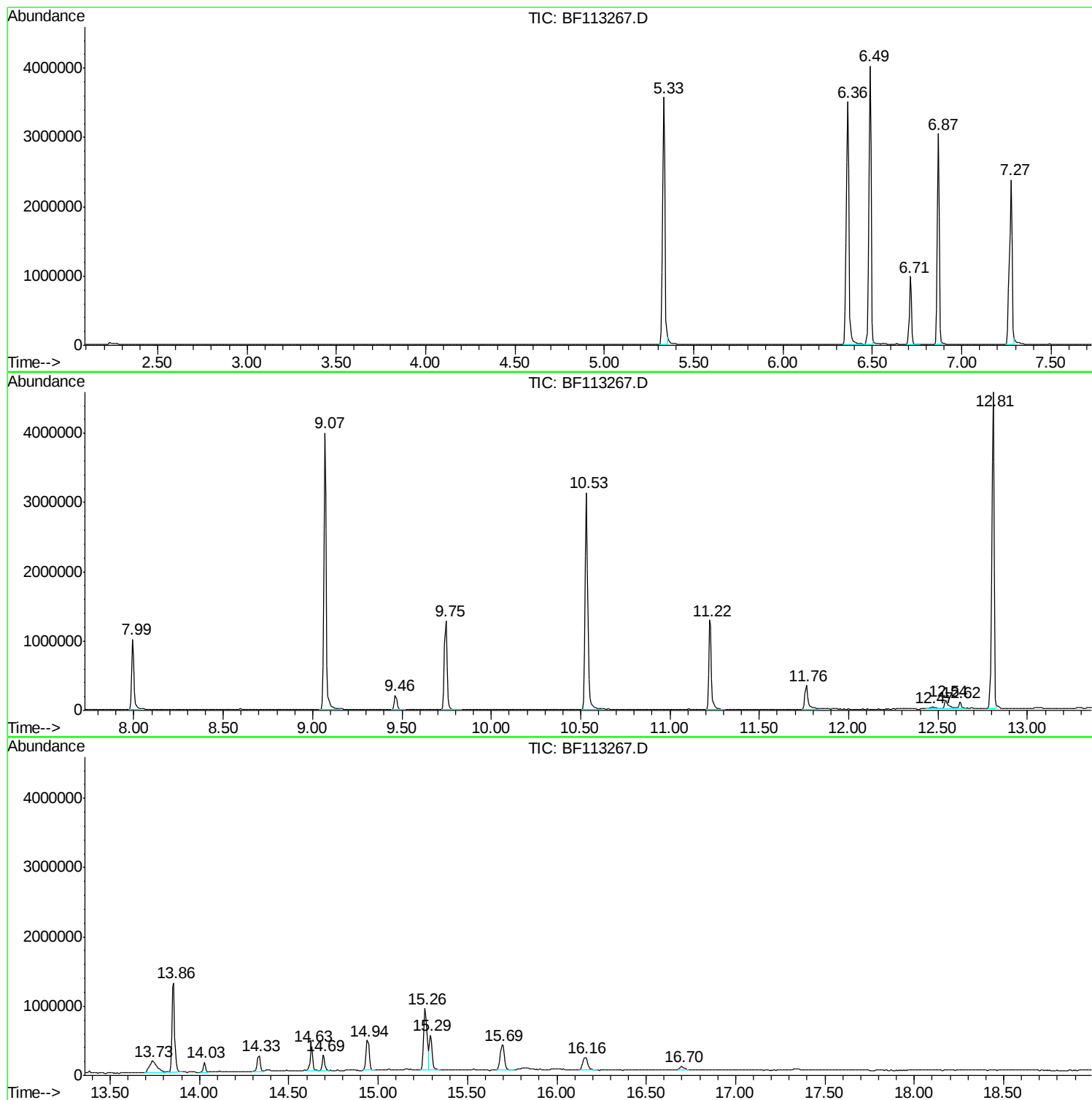
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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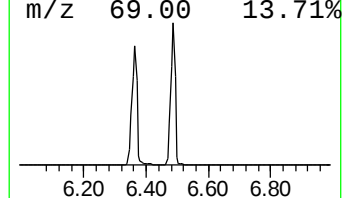
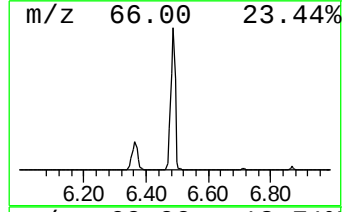
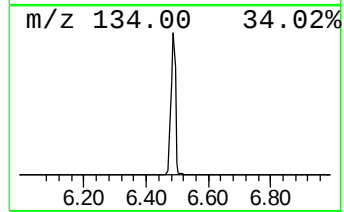
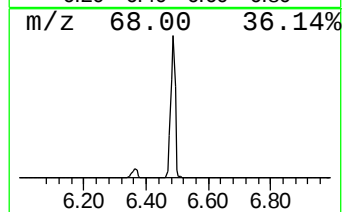
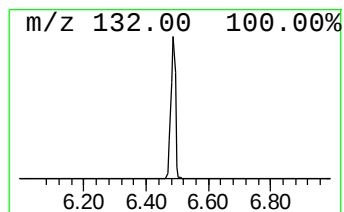
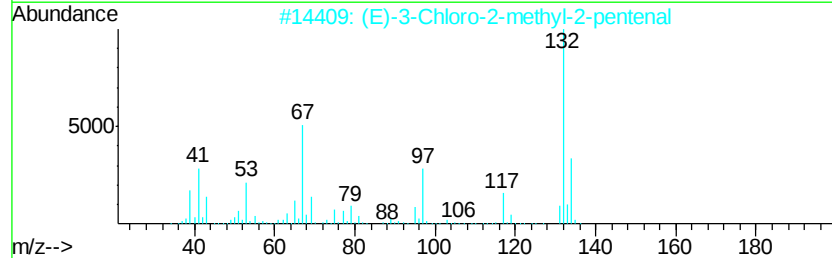
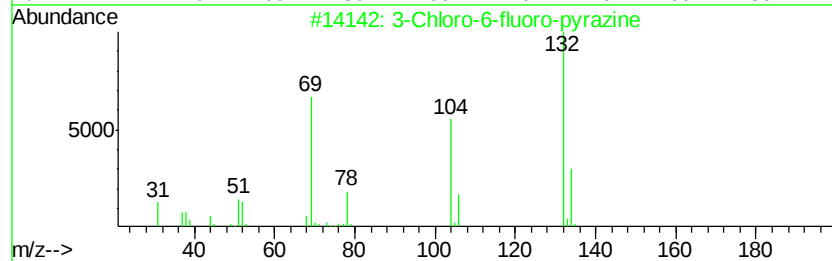
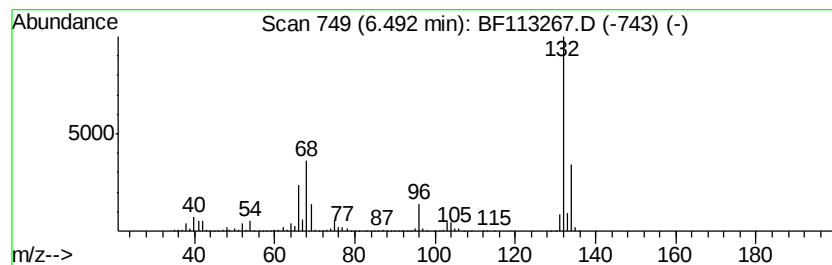
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 1 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.49 | 95.76 ng | 3943110 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 12   |



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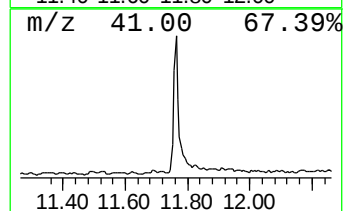
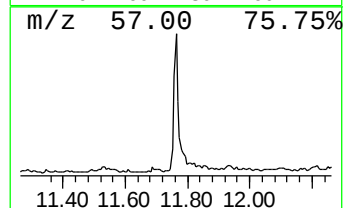
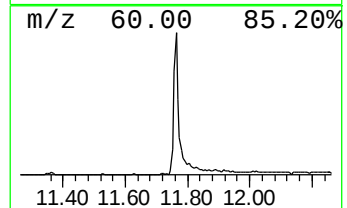
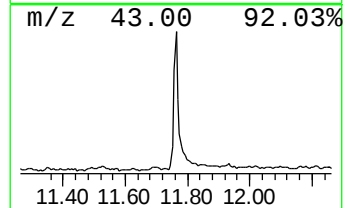
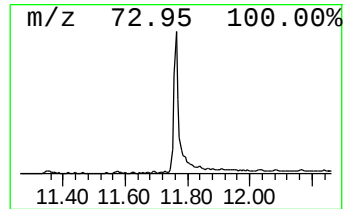
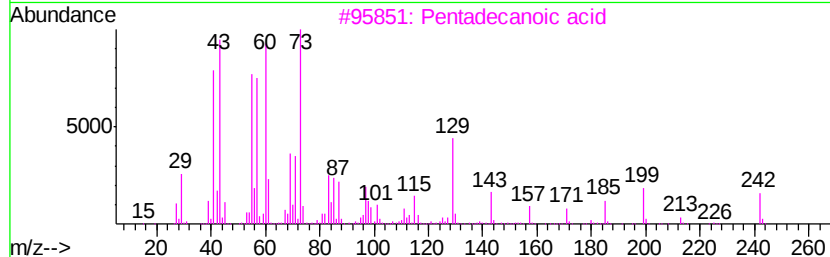
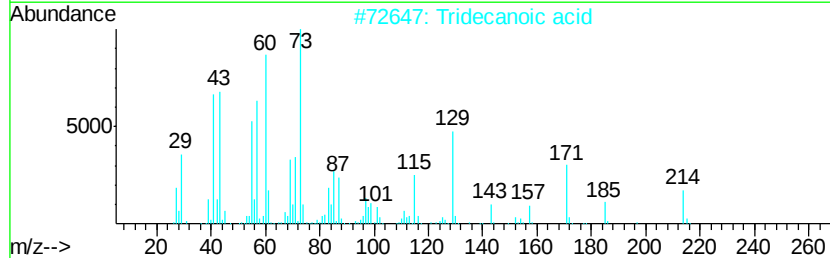
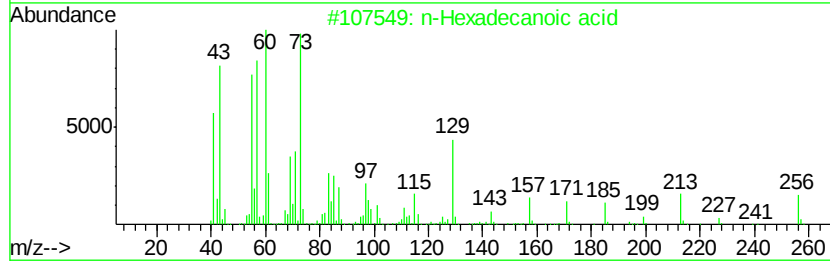
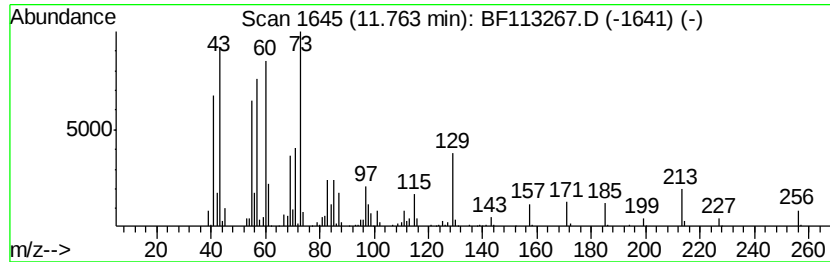
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.76 | 5.98 ng | 408609 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



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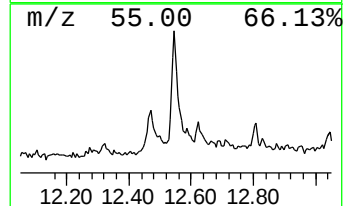
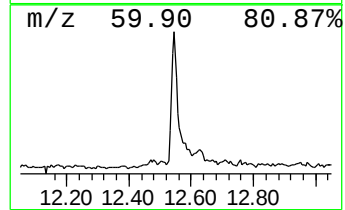
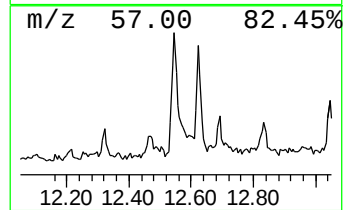
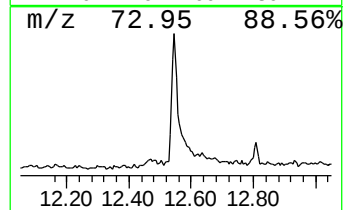
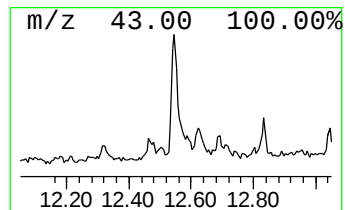
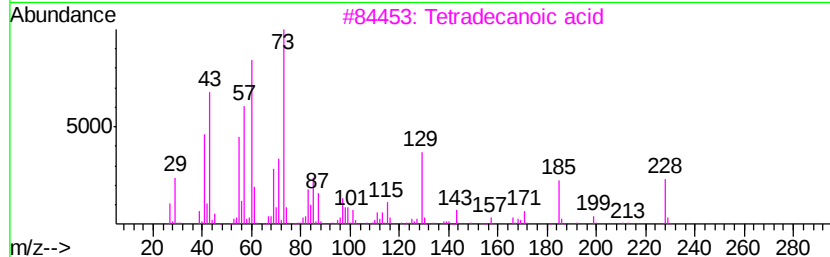
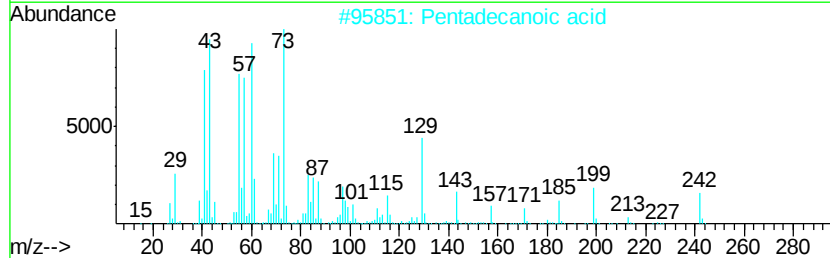
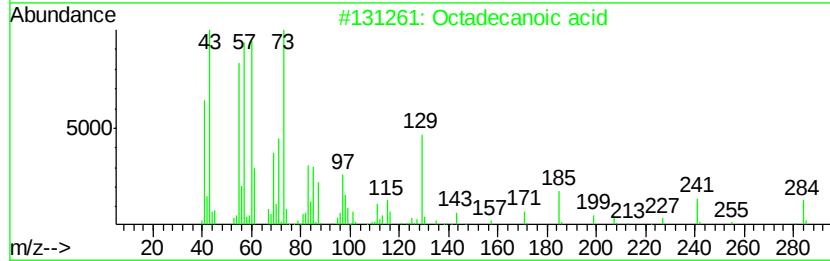
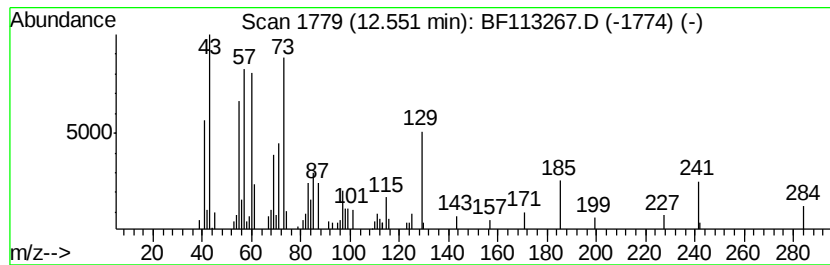
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BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Octadecanoic acid Concentration Rank 11

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 12.55     | 2.62 ng             | 178246 | Chrysene-d12     | 13.86       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 89   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83   |
| 4         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 74   |
| 5         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 62   |



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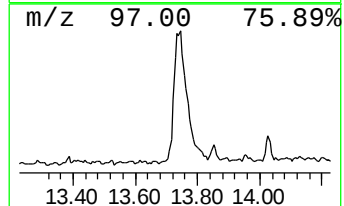
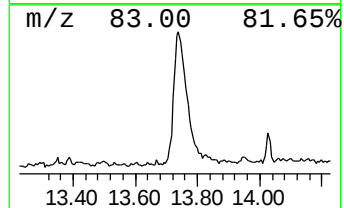
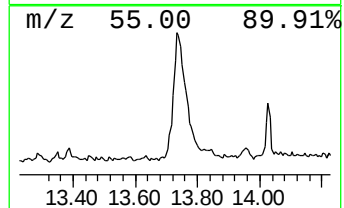
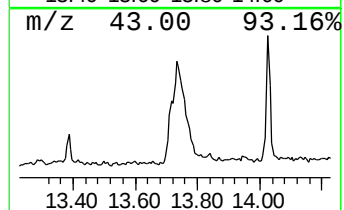
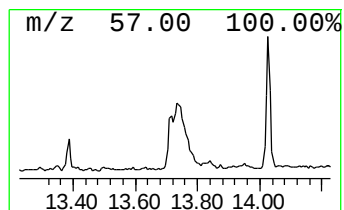
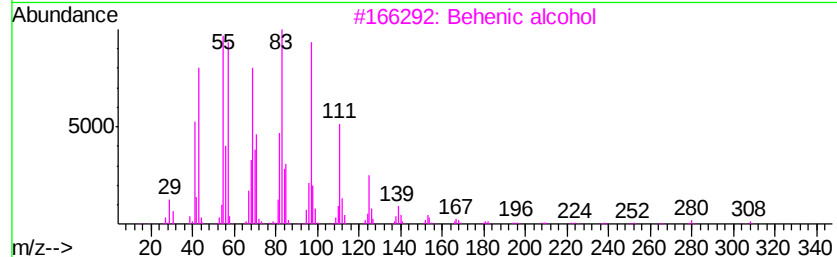
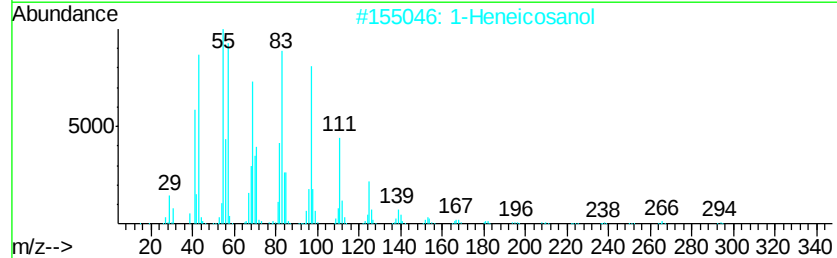
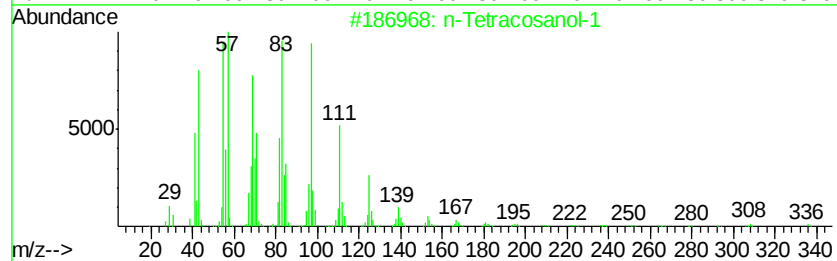
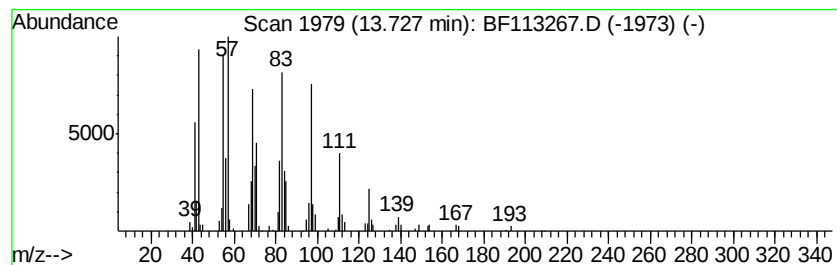
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 5 n-Tetracosanol-1 Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.73     | 7.49 ng                             | 509927 | Chrysene-d12     | 13.86       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Tetracosanol-1                    | 354    | C24H50O          | 000506-51-4 | 95   |
| 2         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8 | 95   |
| 3         | Behenic alcohol                     | 326    | C22H46O          | 000661-19-8 | 95   |
| 4         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 94   |
| 5         | Heptadecyl heptafluorobutyrate      | 452    | C21H35F7O2       | 959085-66-6 | 94   |



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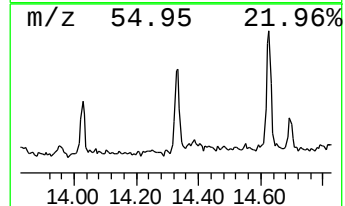
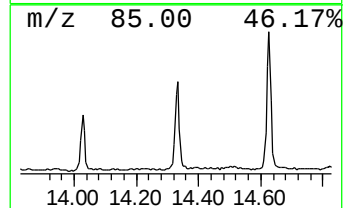
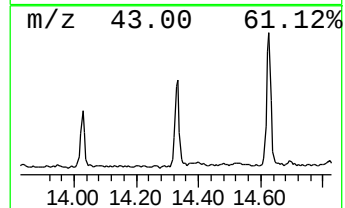
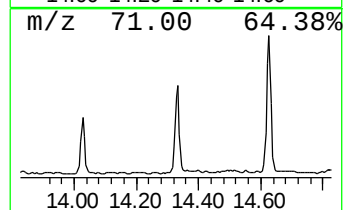
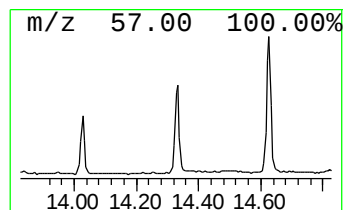
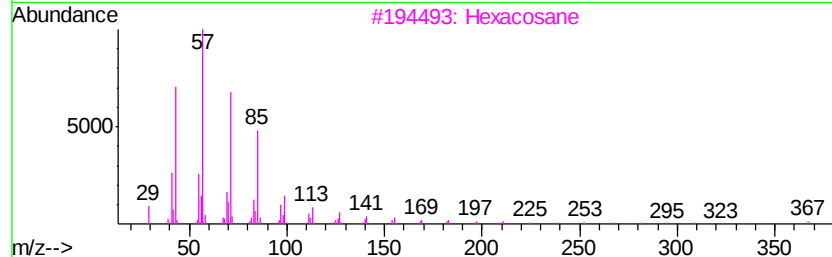
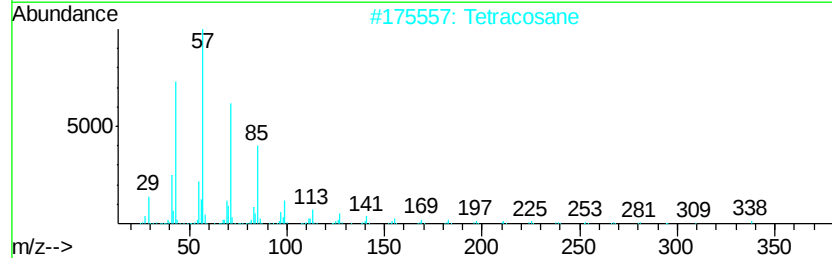
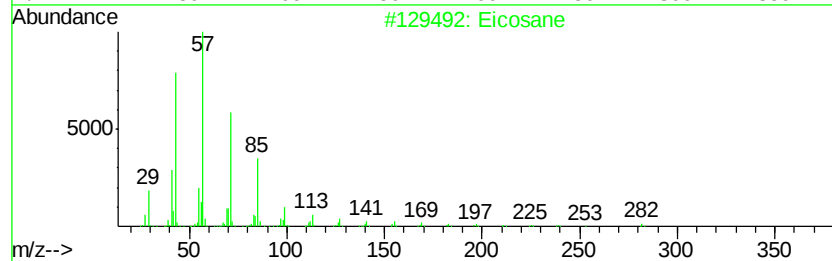
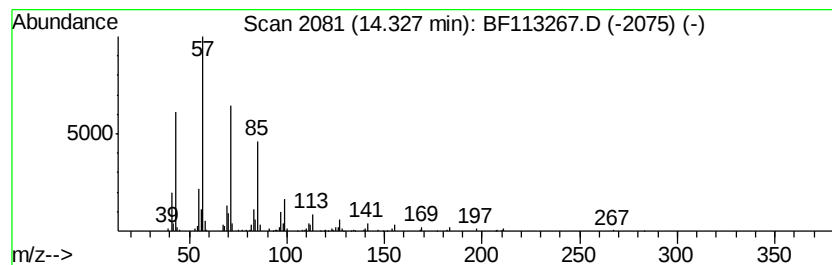
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Eicosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.33 | 3.91 ng | 266446 | Chrysene-d12     | 13.86 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane              |              | 282 | C20H42  | 000112-95-8 | 95   |
| 2       | Tetracosane           |              | 338 | C24H50  | 000646-31-1 | 91   |
| 3       | Hexacosane            |              | 366 | C26H54  | 000630-01-3 | 91   |
| 4       | Heneicosane           |              | 296 | C21H44  | 000629-94-7 | 91   |
| 5       | Nonadecane, 2-methyl- |              | 282 | C20H42  | 001560-86-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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

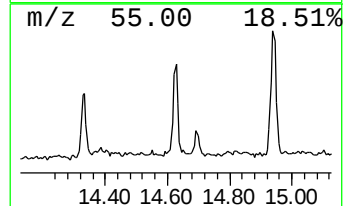
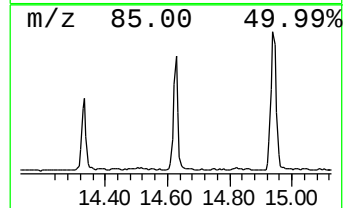
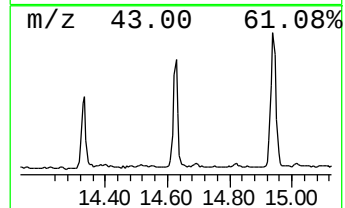
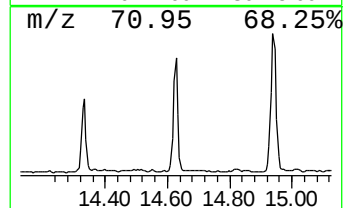
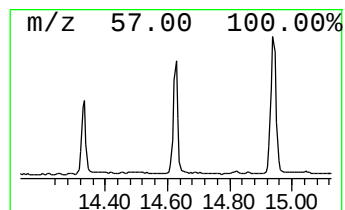
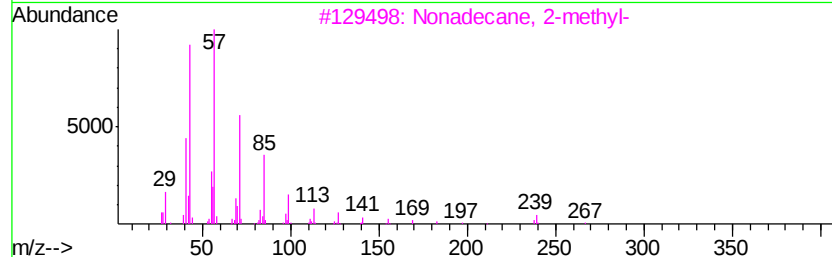
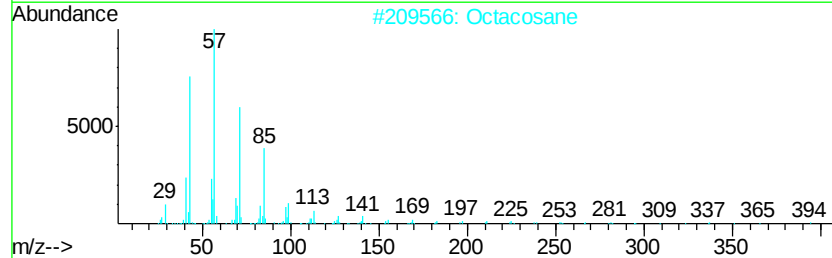
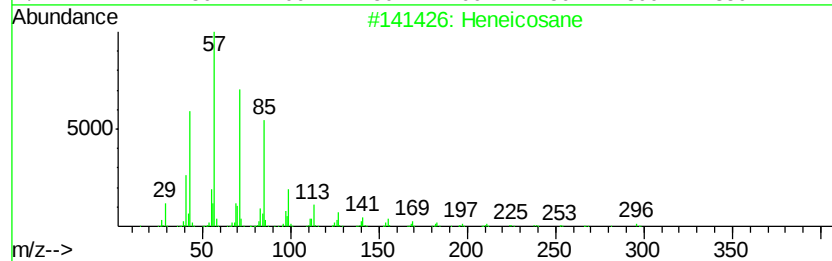
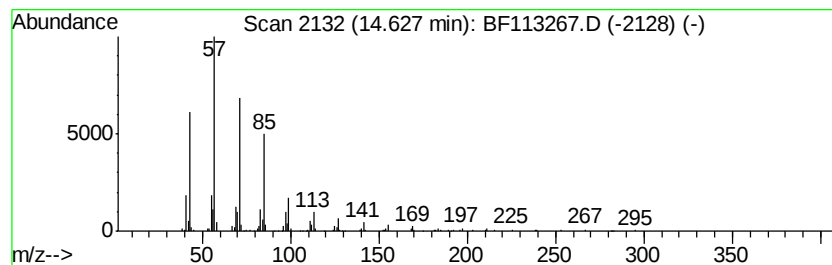
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heneicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.63 | 6.05 ng | 352627 | Perylene-d12     | 15.26 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Heneicosane           |              | 296 | C21H44  | 000629-94-7 | 91   |
| 2       | Octacosane            |              | 394 | C28H58  | 000630-02-4 | 91   |
| 3       | Nonadecane, 2-methyl- |              | 282 | C20H42  | 001560-86-7 | 90   |
| 4       | Eicosane              |              | 282 | C20H42  | 000112-95-8 | 90   |
| 5       | Octadecane            |              | 254 | C18H38  | 000593-45-3 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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

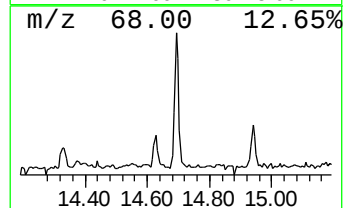
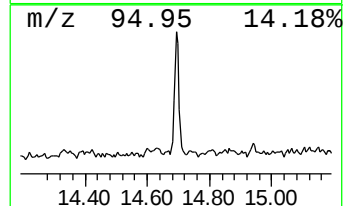
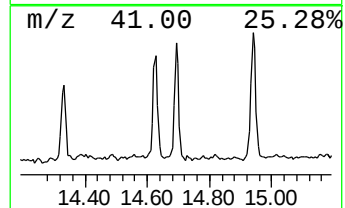
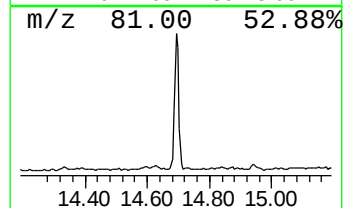
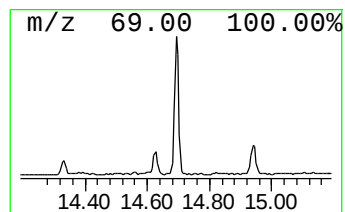
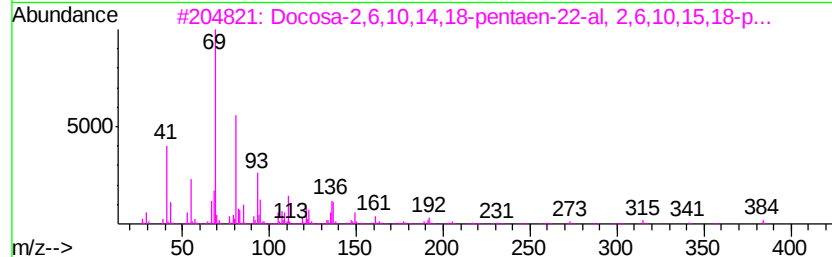
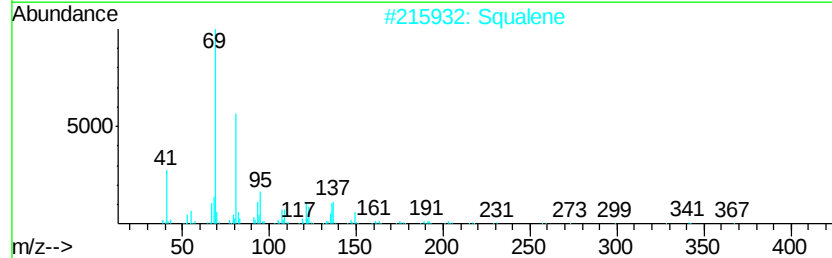
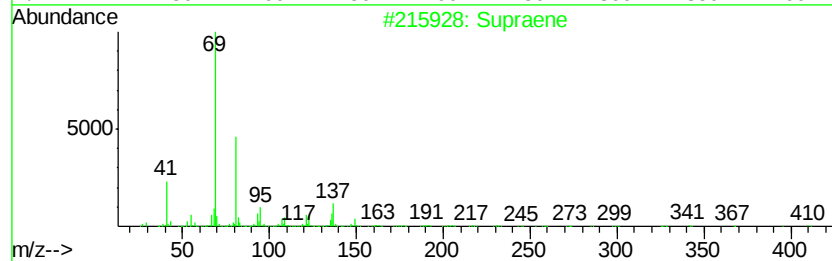
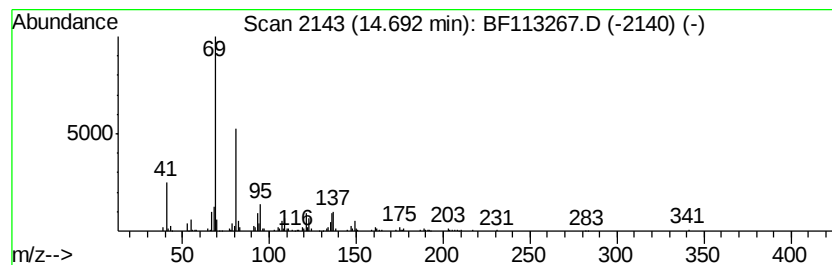
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Supraene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.69 | 3.75 ng | 218444 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Supraene                            | 410 | C30H50     | 007683-64-9  | 91   |
| 2    |    | Squalene                            | 410 | C30H50     | 000111-02-4  | 91   |
| 3    |    | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O    | 1000163-04-7 | 90   |
| 4    |    | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O    | 125529-10-4  | 74   |
| 5    |    | (.+/-)-Lavandulol, pentafluorop...  | 300 | C13H17F5O2 | 1000352-63-1 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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

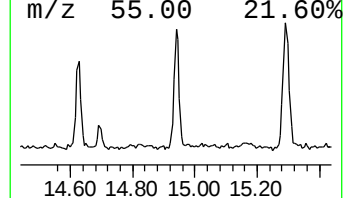
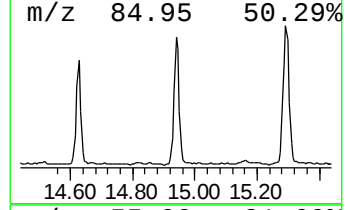
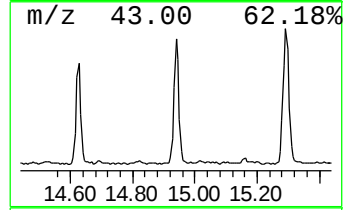
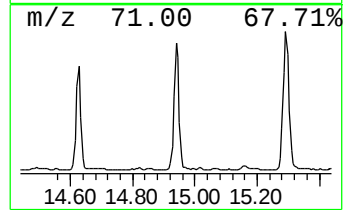
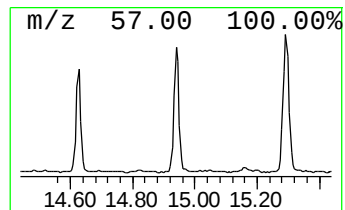
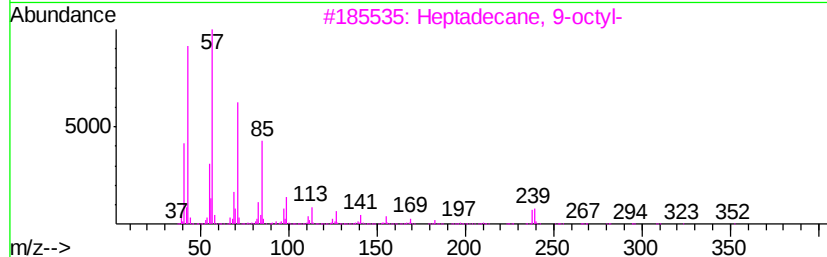
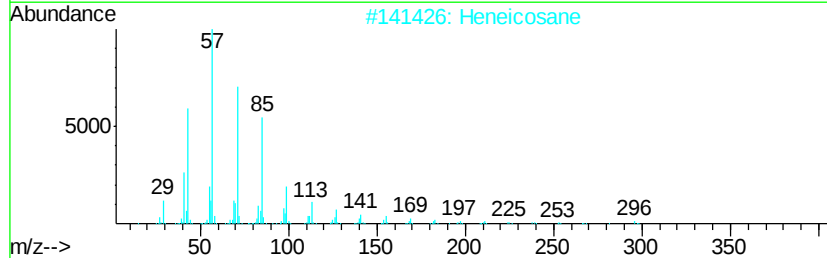
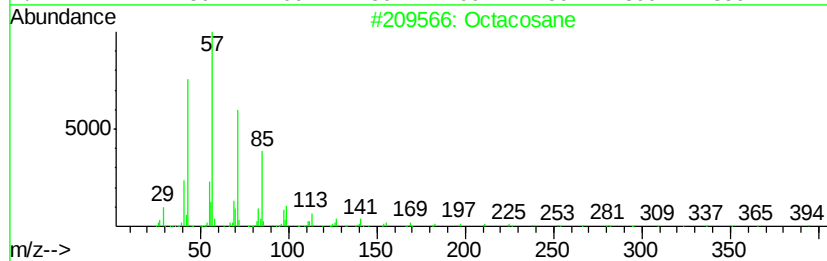
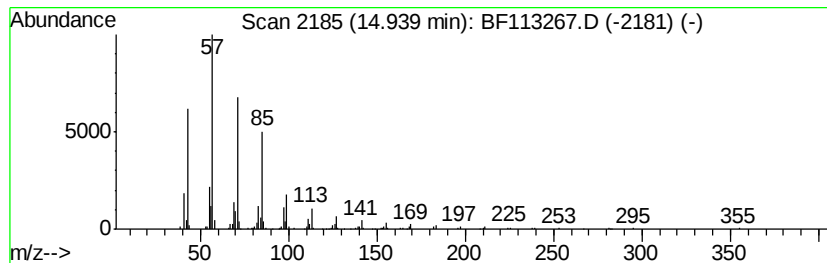
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Octacosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.94 | 8.52 ng | 496540 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 2    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 4    |    | Eicosane, 7-hexyl-    | 366 | C26H54  | 055333-99-8 | 90   |
| 5    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

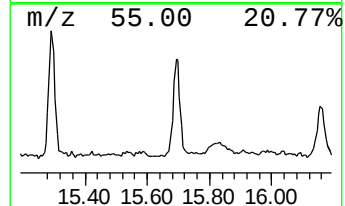
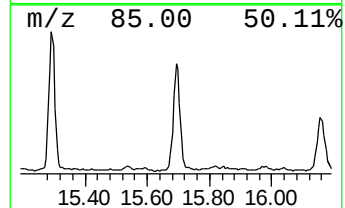
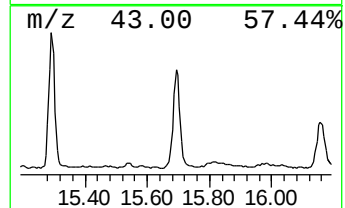
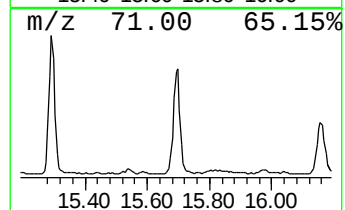
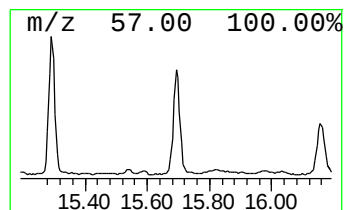
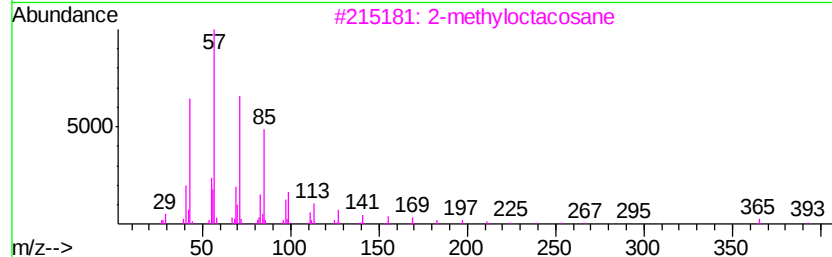
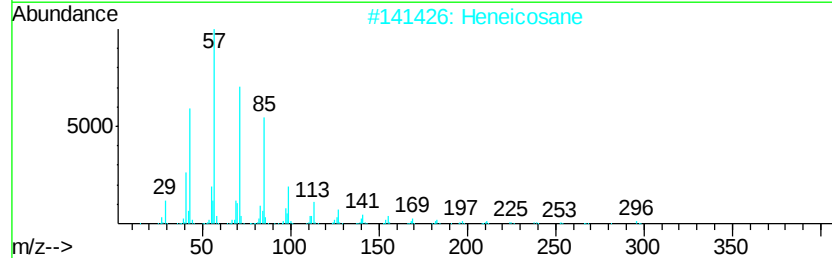
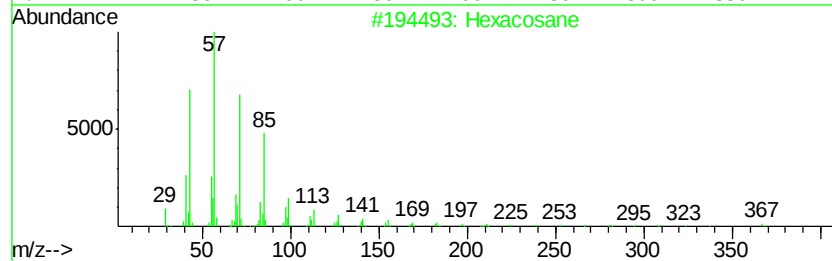
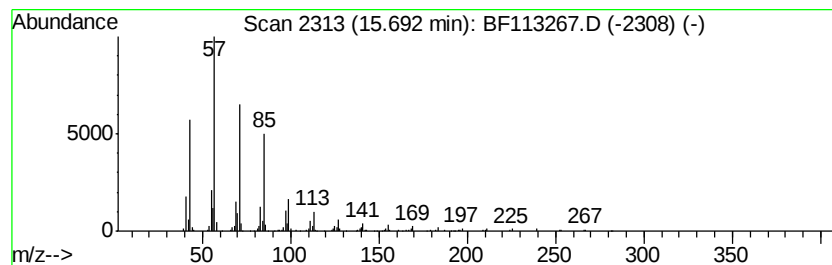
Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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

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

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Peak Number 10 Hexacosane Concentration Rank 3

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 15.69   | 9.63 ng            | 561277       | Perylene-d12     | 15.26     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexacosane         | 366 C26H54   | 000630-01-3      | 94        |
| 2       | Heneicosane        | 296 C21H44   | 000629-94-7      | 91        |
| 3       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 91        |
| 4       | Triacontane        | 422 C30H62   | 000638-68-6      | 91        |
| 5       | Octadecane         | 254 C18H38   | 000593-45-3      | 90        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

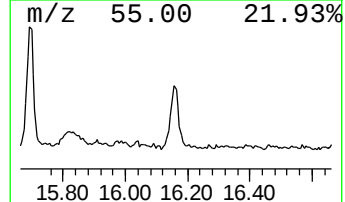
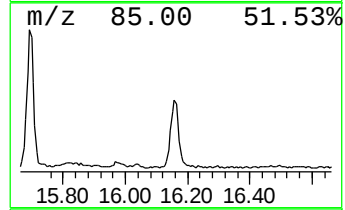
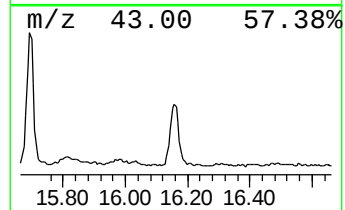
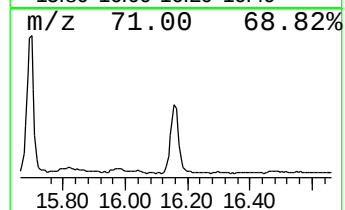
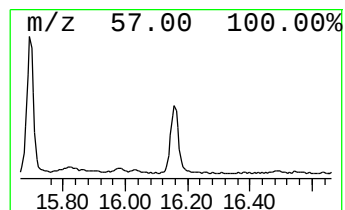
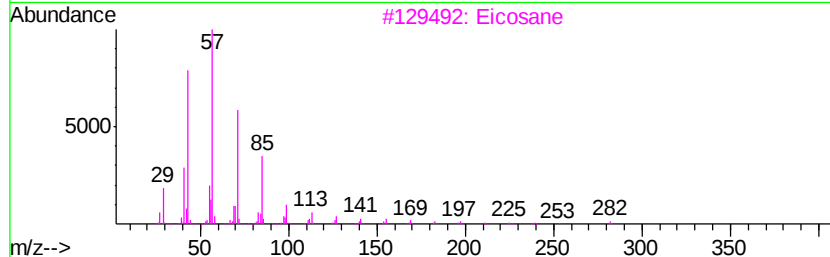
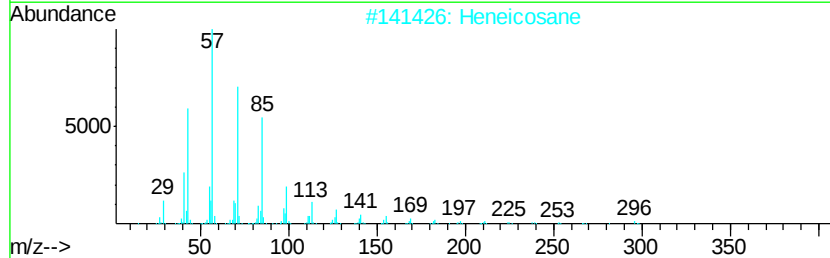
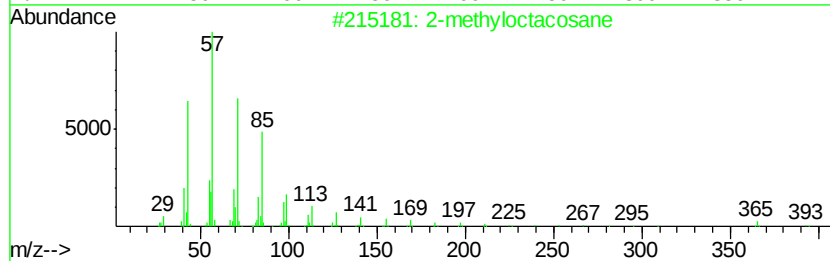
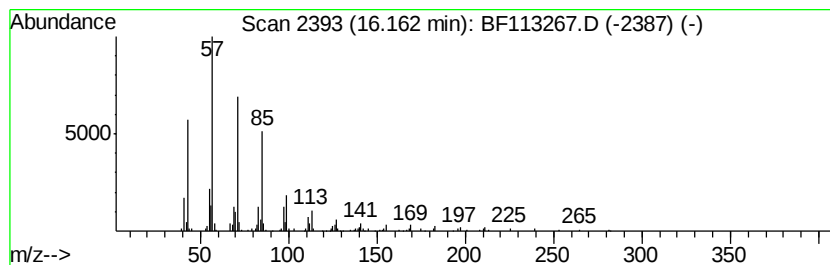
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 2-methyloctacosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.16 | 6.00 ng | 350009 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 3    |    | Eicosane           | 282 | C20H42  | 000112-95-8  | 91   |
| 4    |    | Triacontane        | 422 | C30H62  | 000638-68-6  | 91   |
| 5    |    | Tetratetracontane  | 619 | C44H90  | 007098-22-8  | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032419\  
Data File : BF113267.D  
Acq On : 24 Mar 2019 14:52  
Operator : JU/SJ  
Sample : K2058-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S3B(17-25)COMP

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

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

| TIC Top Hit name    | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|---------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                     |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.49         | 6.49  | 95.8    | ng    | 3943110  | 1                     | 6.71  | 823510  | 20.0 |
| n-Hexadecanoic acid | 11.76 | 6.0     | ng    | 408609   | 4                     | 11.22 | 1367250 | 20.0 |
| Octadecanoic acid   | 12.55 | 2.6     | ng    | 178246   | 5                     | 13.86 | 1362230 | 20.0 |
| n-Tetracosanol-1    | 13.73 | 7.5     | ng    | 509927   | 5                     | 13.86 | 1362230 | 20.0 |
| Eicosane            | 14.33 | 3.9     | ng    | 266446   | 5                     | 13.86 | 1362230 | 20.0 |
| Heneicosane         | 14.63 | 6.0     | ng    | 352627   | 6                     | 15.26 | 1165980 | 20.0 |
| Supraene            | 14.69 | 3.8     | ng    | 218444   | 6                     | 15.26 | 1165980 | 20.0 |
| Octacosane          | 14.94 | 8.5     | ng    | 496540   | 6                     | 15.26 | 1165980 | 20.0 |
| Hexacosane          | 15.69 | 9.6     | ng    | 561277   | 6                     | 15.26 | 1165980 | 20.0 |
| 2-methyloctacosane  | 16.16 | 6.0     | ng    | 350009   | 6                     | 15.26 | 1165980 | 20.0 |