

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032019\  
 Data File : BM019279.D  
 Acq On : 21 Mar 2019 01:37  
 Operator : JU/SJ  
 Sample : K1964-05  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TW-4

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\_M\METHODS\8270-BM031119.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         | 5.234       | 376           | 382         | 394          | rBV      | 1104407        | 1650963       | 12.24%          | 2.595%        |
| 2         | 6.816       | 644           | 651         | 667          | rBV      | 669386         | 1152240       | 8.54%           | 1.811%        |
| 3         | 7.169       | 704           | 711         | 727          | rBV      | 2293908        | 3696714       | 27.41%          | 5.811%        |
| 4         | 7.634       | 783           | 790         | 799          | rBV      | 733449         | 1161753       | 8.61%           | 1.826%        |
| 5         | 7.945       | 836           | 843         | 854          | rBV      | 2978538        | 4773374       | 35.39%          | 7.503%        |
| 6         | 8.804       | 981           | 989         | 1010         | rBV      | 2450539        | 4259683       | 31.58%          | 6.696%        |
| 7         | 10.416      | 1255          | 1263        | 1278         | rBV      | 998704         | 1784364       | 13.23%          | 2.805%        |
| 8         | 12.904      | 1678          | 1686        | 1701         | rBV      | 7681393        | 10946939      | 81.16%          | 17.207%       |
| 9         | 14.286      | 1915          | 1921        | 1930         | rBV2     | 1707677        | 2642410       | 19.59%          | 4.154%        |
| 10        | 15.792      | 2170          | 2177        | 2198         | rBV      | 4084138        | 5831968       | 43.24%          | 9.167%        |
| 11        | 17.045      | 2384          | 2390        | 2404         | rBV2     | 2141683        | 3119768       | 23.13%          | 4.904%        |
| 12        | 17.939      | 2537          | 2542        | 2552         | rBV      | 406036         | 648970        | 4.81%           | 1.020%        |
| 13        | 19.227      | 2757          | 2761        | 2770         | rBV      | 282264         | 427747        | 3.17%           | 0.672%        |
| 14        | 19.686      | 2833          | 2839        | 2853         | rBV      | 11293934       | 13487730      | 100.00%         | 21.201%       |
| 15        | 20.245      | 2931          | 2934        | 2941         | rBV2     | 100387         | 140879        | 1.04%           | 0.221%        |
| 16        | 20.950      | 3050          | 3054        | 3061         | rBV      | 223955         | 305925        | 2.27%           | 0.481%        |
| 17        | 21.245      | 3099          | 3104        | 3113         | rBV      | 2161317        | 2777092       | 20.59%          | 4.365%        |
| 18        | 21.380      | 3124          | 3127        | 3132         | rBV      | 151103         | 165978        | 1.23%           | 0.261%        |
| 19        | 21.809      | 3197          | 3200        | 3204         | rBV      | 268387         | 281384        | 2.09%           | 0.442%        |
| 20        | 22.262      | 3274          | 3277        | 3283         | rVB      | 371033         | 500719        | 3.71%           | 0.787%        |
| 21        | 22.762      | 3358          | 3362        | 3369         | rVB      | 395829         | 549340        | 4.07%           | 0.864%        |
| 22        | 23.321      | 3453          | 3457        | 3467         | rVB      | 353152         | 565876        | 4.20%           | 0.889%        |
| 23        | 23.474      | 3476          | 3483        | 3492         | rVB2     | 1215805        | 2292249       | 17.00%          | 3.603%        |
| 24        | 23.956      | 3561          | 3565        | 3572         | rVB      | 249238         | 453433        | 3.36%           | 0.713%        |

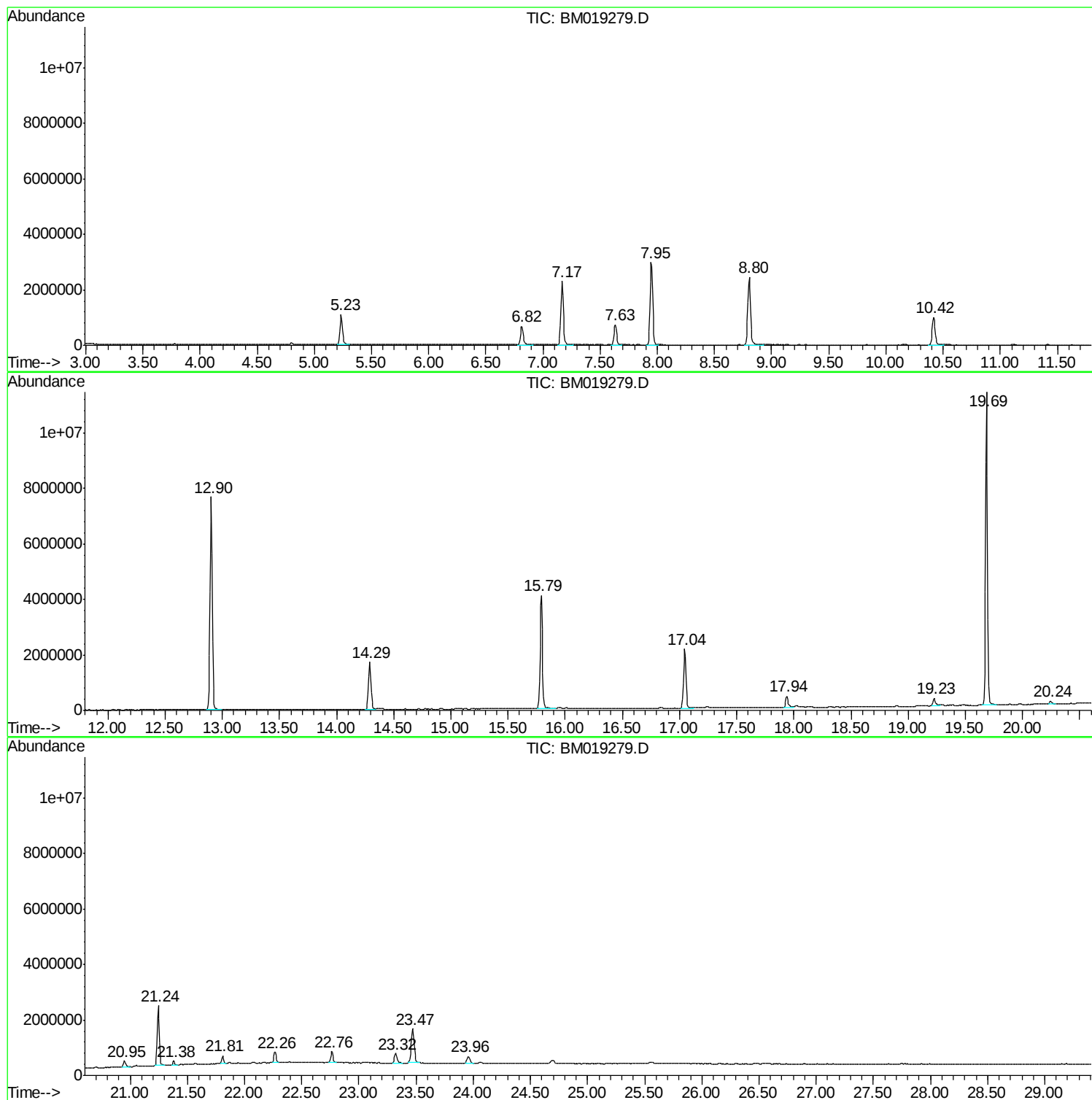
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BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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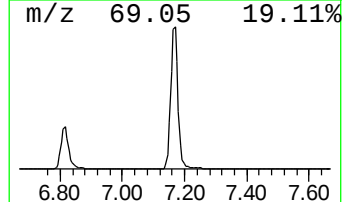
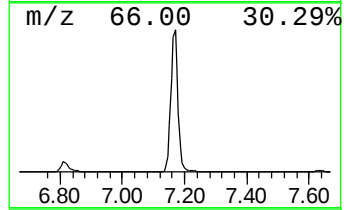
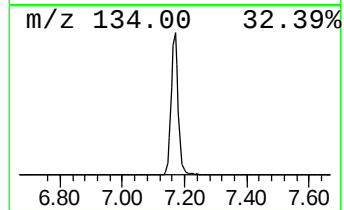
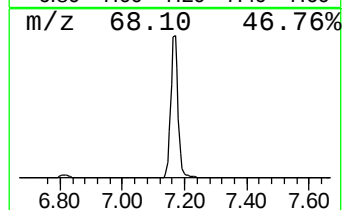
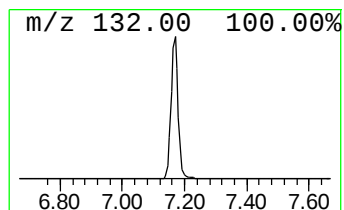
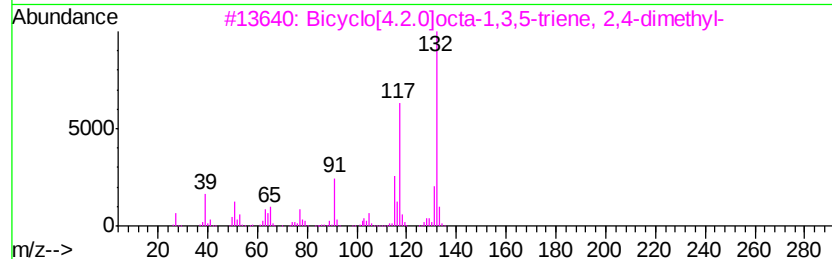
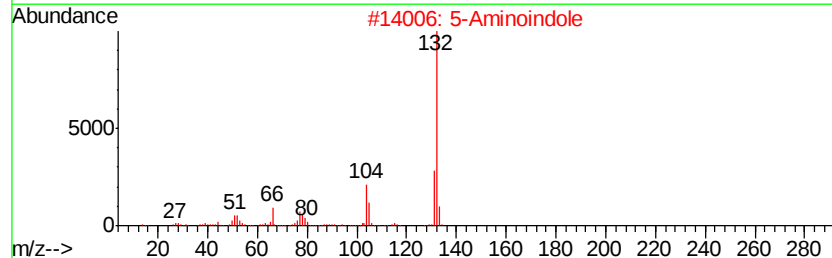
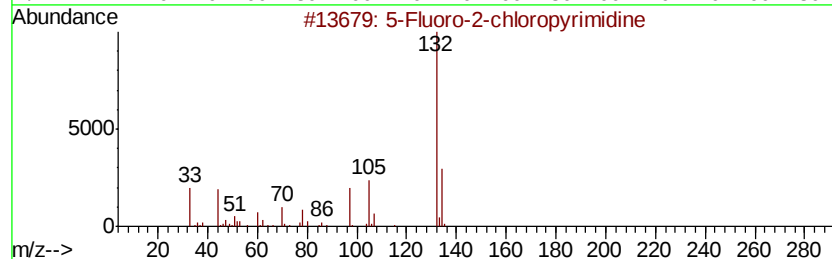
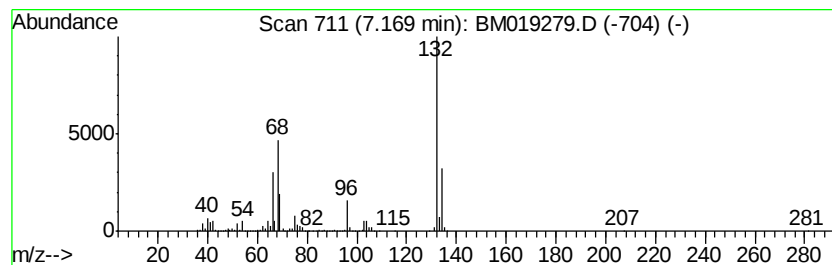
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.17 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.17 | 63.64 ng | 3696710 | 1,4-Dichlorobenzene-d4 | 7.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0 | 16   |
| 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-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2 | 9    |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6 | 9    |



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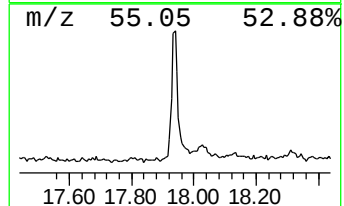
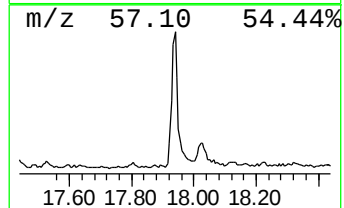
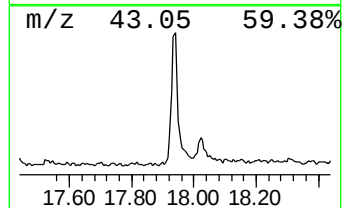
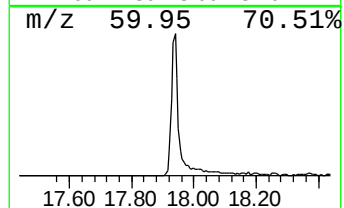
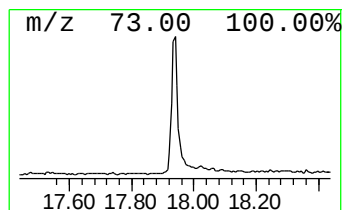
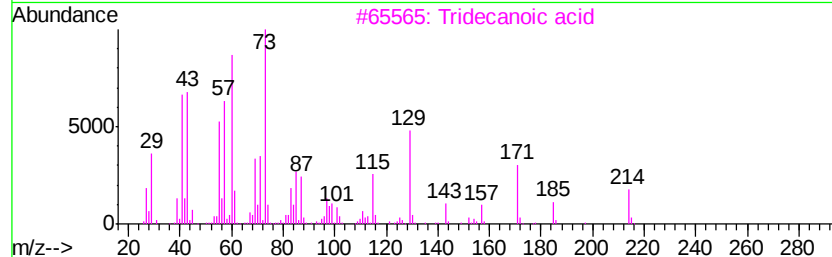
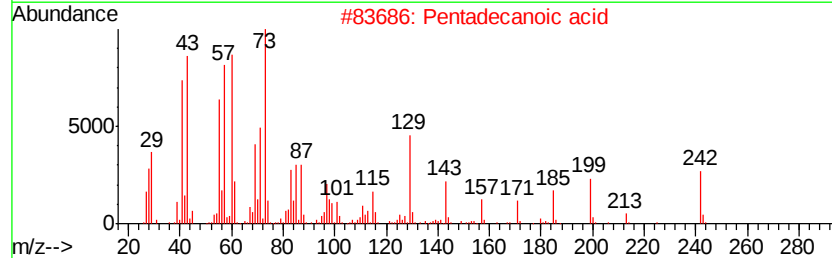
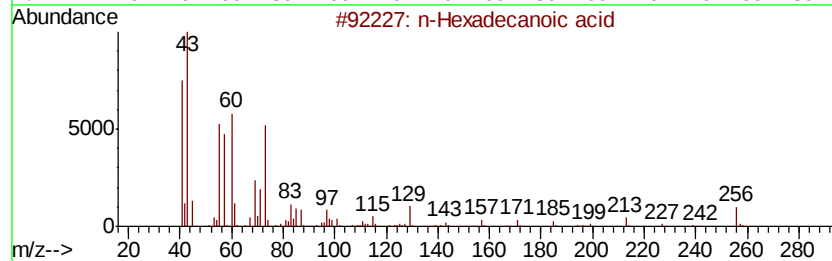
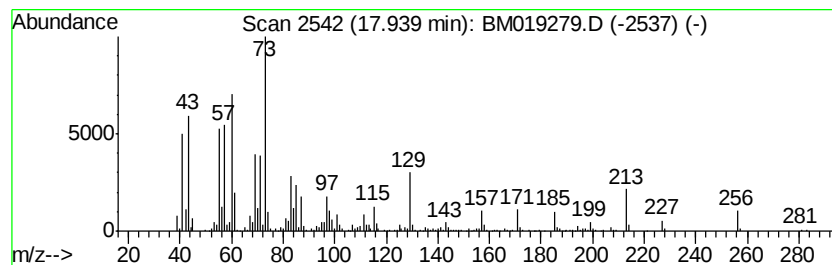
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|--------|------------------|-------------|------|
| 17.94     | 4.16 ng                  | 648970 | Phenanthrene-d10 | 17.04       |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid      | 256    | C16H32O2         | 000057-10-3 | 96   |
| 2         | Pentadecanoic acid       | 242    | C15H30O2         | 001002-84-2 | 68   |
| 3         | Tridecanoic acid         | 214    | C13H26O2         | 000638-53-9 | 55   |
| 4         | Undecanoic acid          | 186    | C11H22O2         | 000112-37-8 | 43   |
| 5         | Ether, dodecyl isopropyl | 228    | C15H32O          | 029379-42-8 | 30   |



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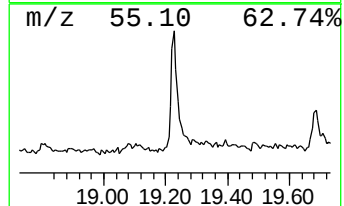
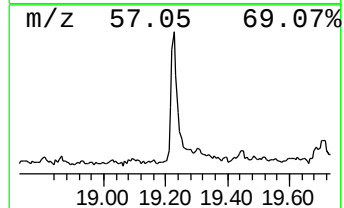
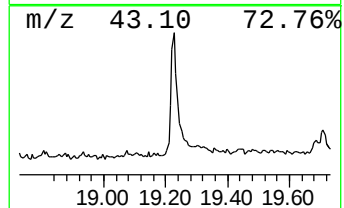
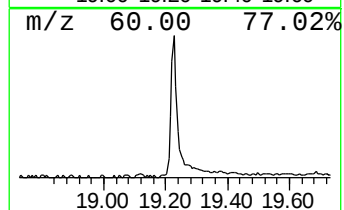
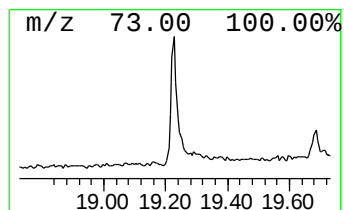
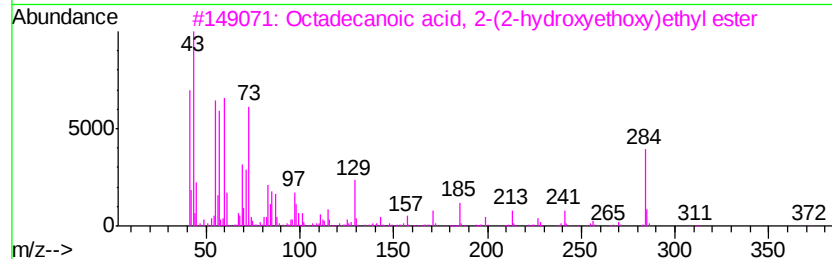
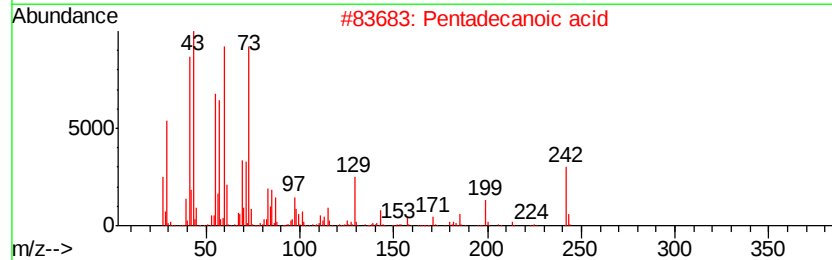
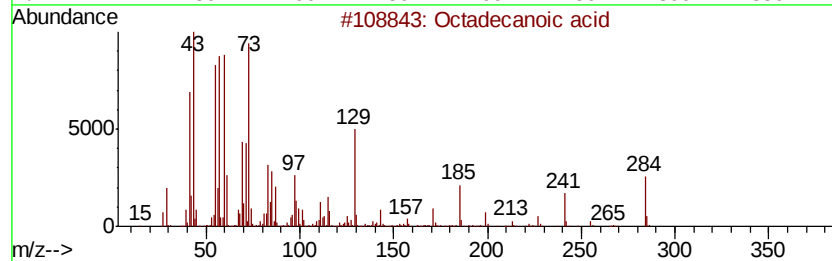
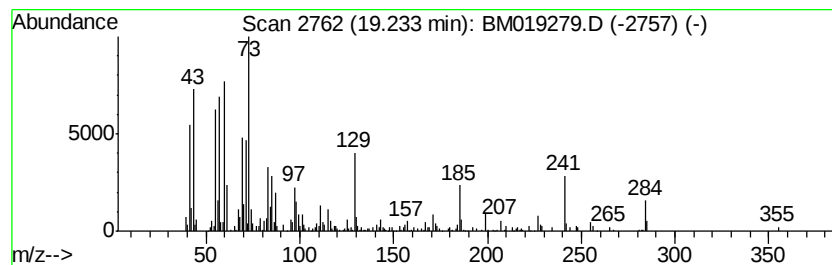
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Octadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.23 | 3.08 ng | 427747 | Chrysene-d12     | 21.24 |

| 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 | 91   |
| 3       |   | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 91   |
| 4       |   | Tetradecanoic acid                   | 228 | C14H28O2 | 000544-63-8 | 89   |
| 5       |   | Tridecanoic acid                     | 214 | C13H26O2 | 000638-53-9 | 64   |



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Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

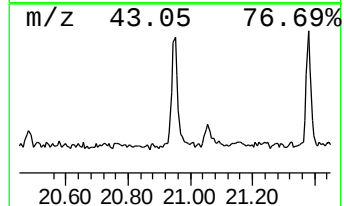
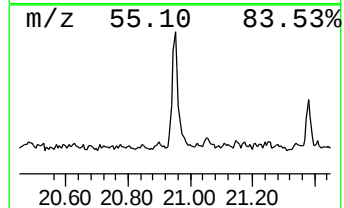
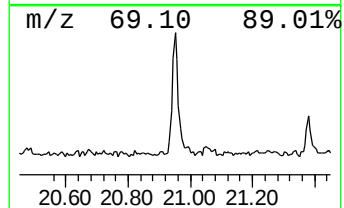
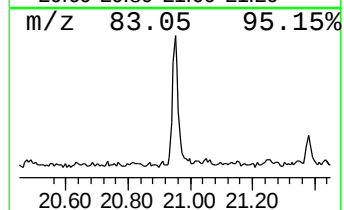
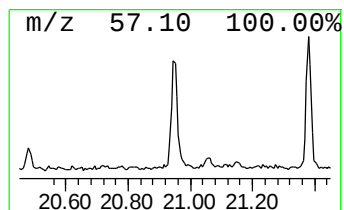
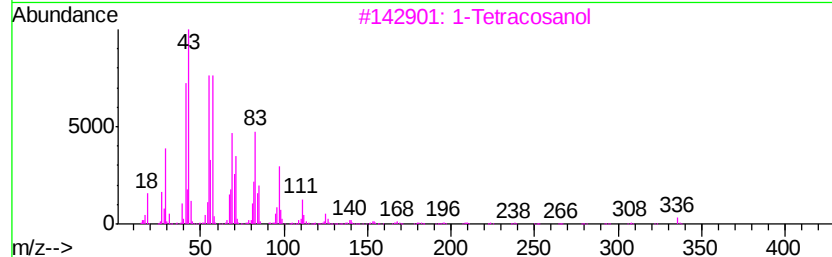
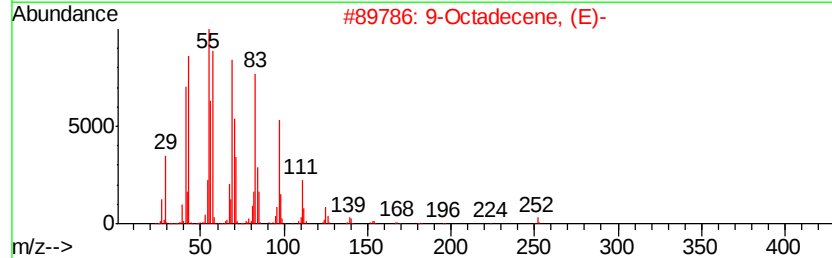
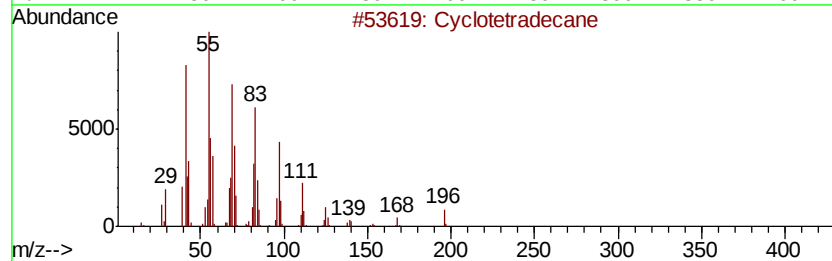
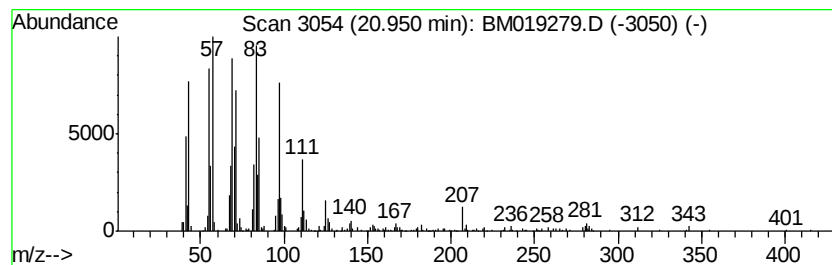
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cyclotetradecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.95 | 2.20 ng | 305925 | Chrysene-d12     | 21.24 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | Cyclotetradecane                    | 196 | C14H28     | 000295-17-0 | 91   |
| 2       |   | 9-Octadecene, (E)-                  | 252 | C18H36     | 007206-25-9 | 91   |
| 3       |   | 1-Tetracosanol                      | 354 | C24H50O    | 000506-51-4 | 91   |
| 4       |   | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 91   |
| 5       |   | 5-Eicosene, (E)-                    | 280 | C20H40     | 074685-30-6 | 90   |



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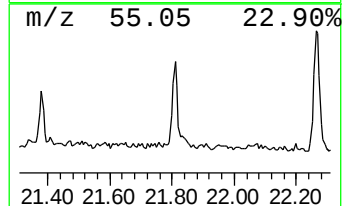
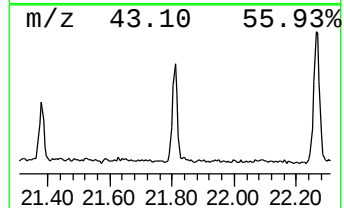
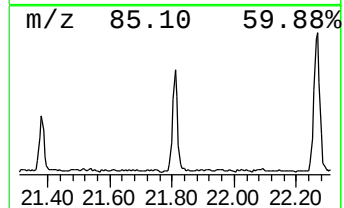
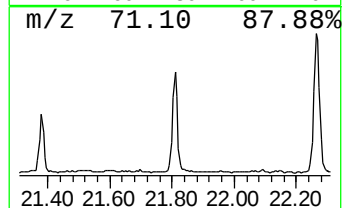
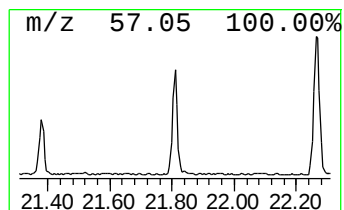
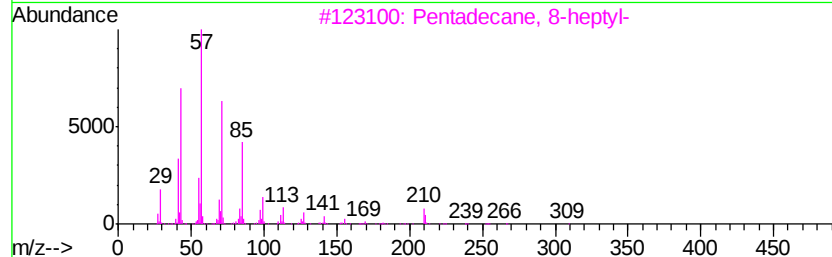
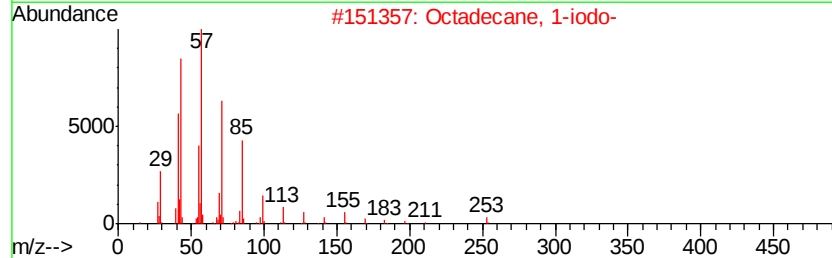
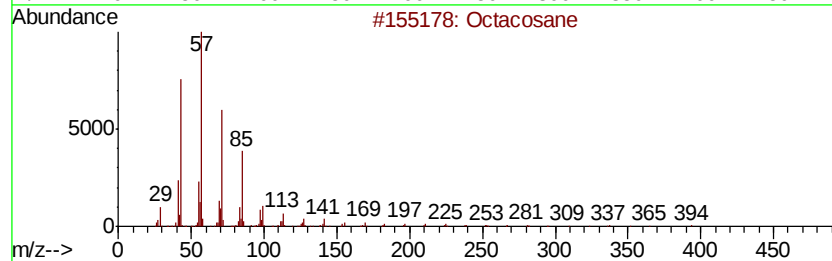
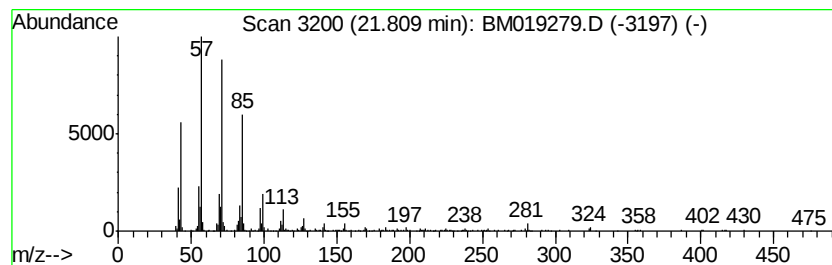
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octacosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.81 | 2.03 ng | 281384 | Chrysene-d12     | 21.24 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane             | 394 | C28H58  | 000630-02-4 | 90   |
| 2    |    | Octadecane, 1-iodo-    | 380 | C18H37I | 000629-93-6 | 87   |
| 3    |    | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 86   |
| 4    |    | Tridecane, 6-propyl-   | 226 | C16H34  | 055045-10-8 | 86   |
| 5    |    | Tetradecane            | 198 | C14H30  | 000629-59-4 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032019\  
Data File : BM019279.D  
Acq On : 21 Mar 2019 01:37  
Operator : JU/SJ  
Sample : K1964-05  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

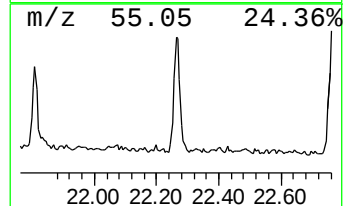
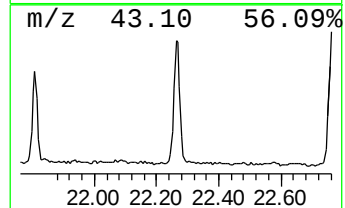
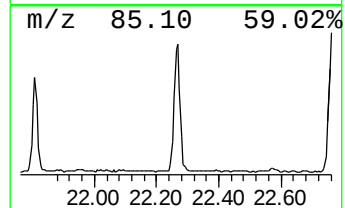
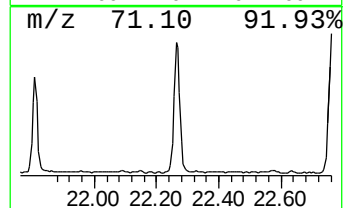
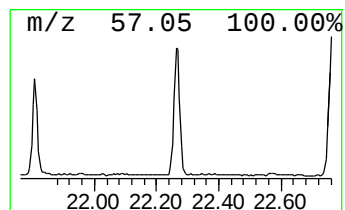
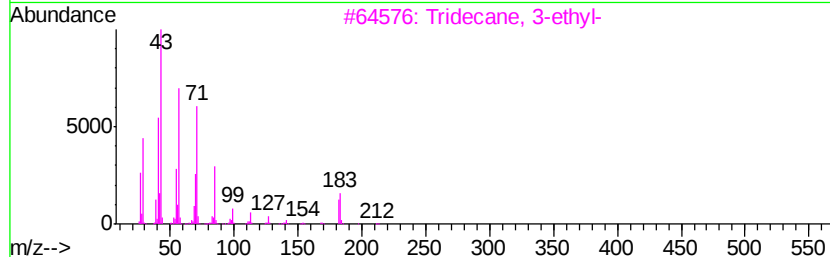
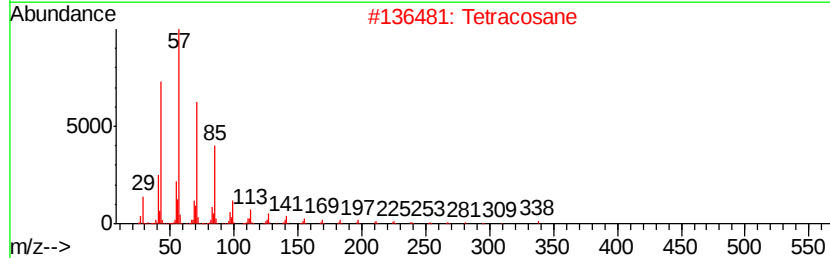
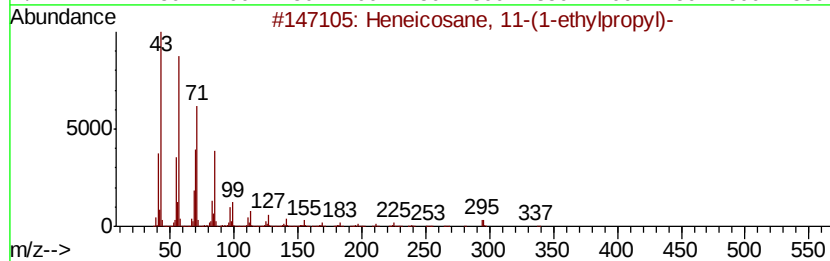
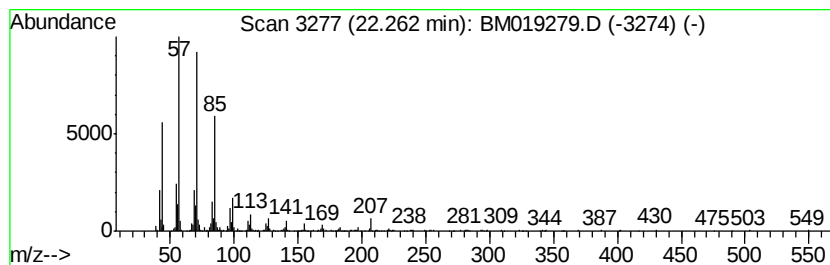
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TW-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heneicosane, 11-(1-ethylpro... Concentration Rank 7

| R.T.      | EstConc                          | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------|--------|------------------|-------------|------|
| 22.26     | 3.61 ng                          | 500719 | Chrysene-d12     | 21.24       |      |
| Hit# of 5 | Tentative ID                     | MW     | MolForm          | CAS#        | Qual |
| 1         | Heneicosane, 11-(1-ethylpropyl)- | 366    | C26H54           | 055282-11-6 | 87   |
| 2         | Tetracosane                      | 338    | C24H50           | 000646-31-1 | 87   |
| 3         | Tridecane, 3-ethyl-              | 212    | C15H32           | 013286-73-2 | 87   |
| 4         | Pentadecane, 8-heptyl-           | 310    | C22H46           | 071005-15-7 | 86   |
| 5         | Docosane, 5-butyl-               | 366    | C26H54           | 055282-16-1 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032019\  
Data File : BM019279.D  
Acq On : 21 Mar 2019 01:37  
Operator : JU/SJ  
Sample : K1964-05  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

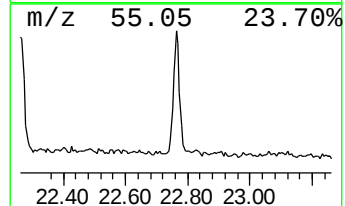
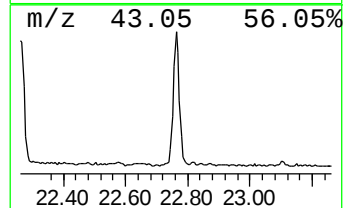
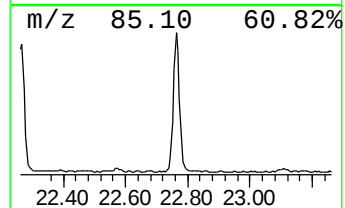
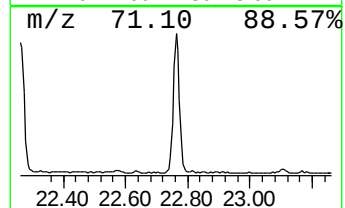
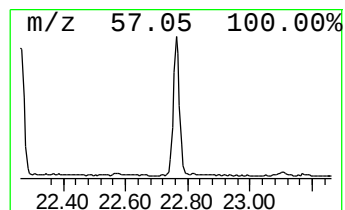
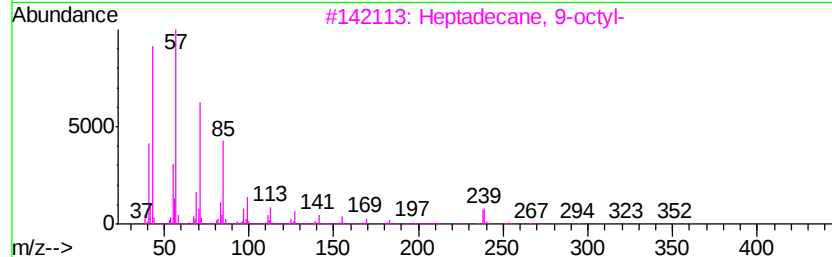
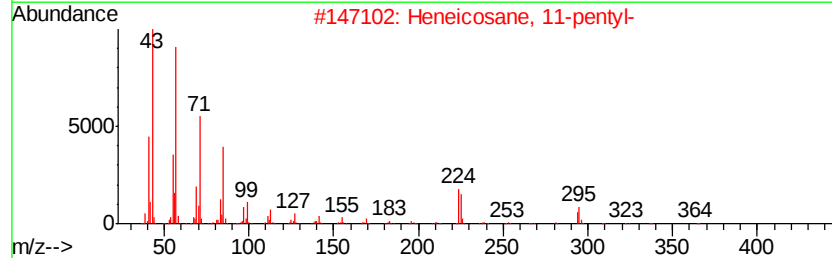
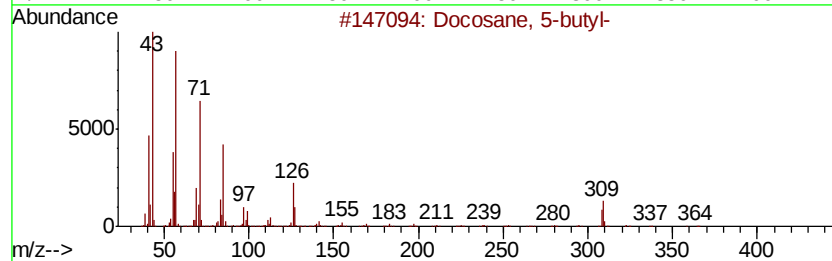
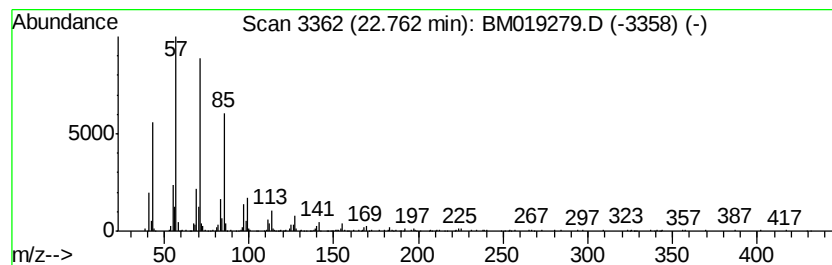
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Docosane, 5-butyl- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.76 | 4.79 ng | 549340 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 5-butyl-      | 366 | C26H54  | 055282-16-1 | 90   |
| 2    |    | Heneicosane, 11-pentyl- | 366 | C26H54  | 014739-72-1 | 90   |
| 3    |    | Heptadecane, 9-octyl-   | 352 | C25H52  | 007225-64-1 | 90   |
| 4    |    | Hexadecane              | 226 | C16H34  | 000544-76-3 | 87   |
| 5    |    | Heneicosane             | 296 | C21H44  | 000629-94-7 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032019\  
 Data File : BM019279.D  
 Acq On : 21 Mar 2019 01:37  
 Operator : JU/SJ  
 Sample : K1964-05  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TW-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

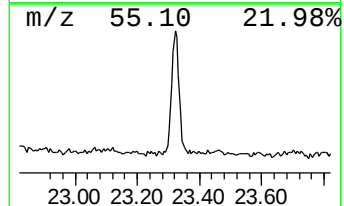
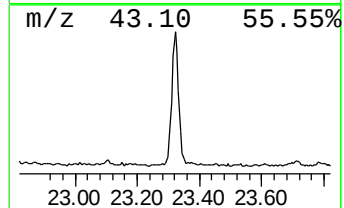
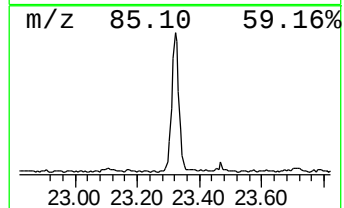
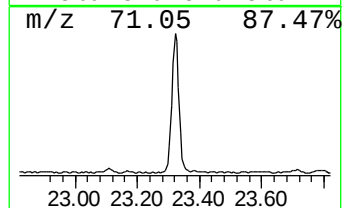
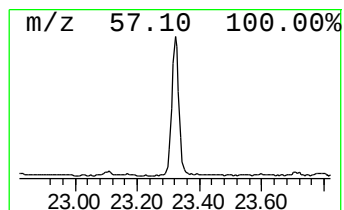
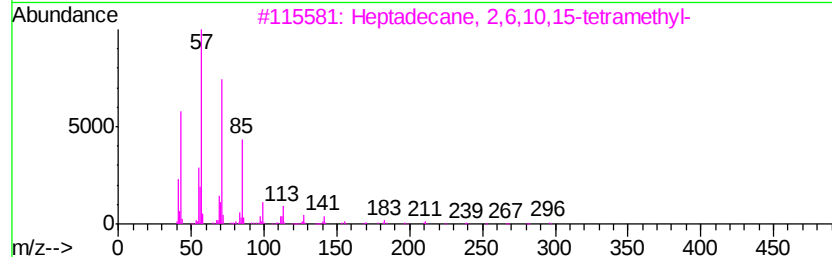
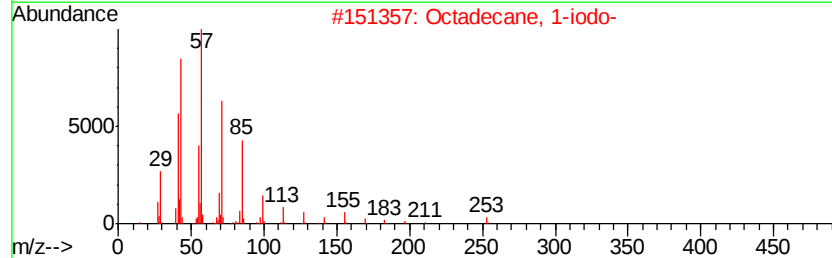
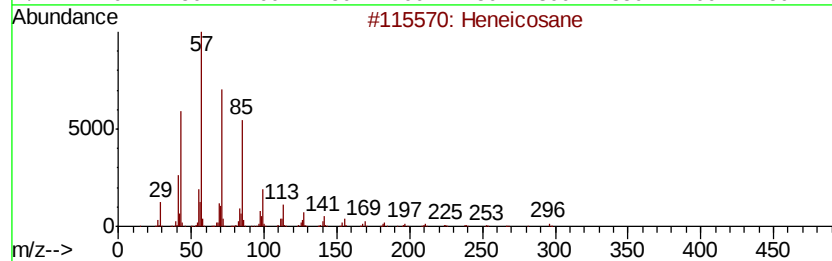
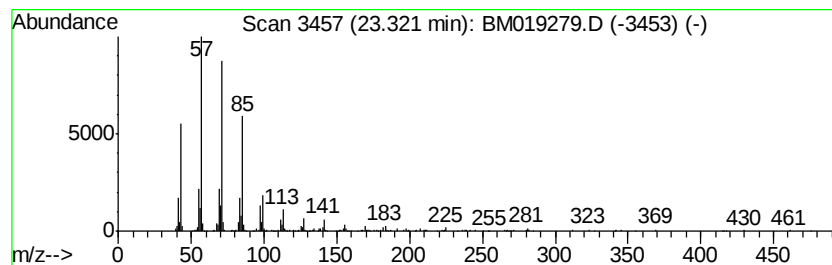
TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 9 Heneicosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.32 | 4.94 ng | 565876 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                         | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Octadecane, 1-iodo-                 | 380 | C18H37I | 000629-93-6 | 86   |
| 3    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 86   |
| 4    |    | Nonadecane                          | 268 | C19H40  | 000629-92-5 | 86   |
| 5    |    | Docosane                            | 310 | C22H46  | 000629-97-0 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032019\  
Data File : BM019279.D  
Acq On : 21 Mar 2019 01:37  
Operator : JU/SJ  
Sample : K1964-05  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

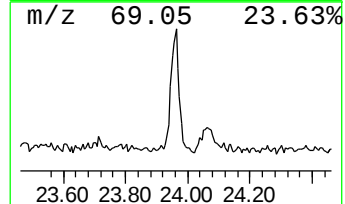
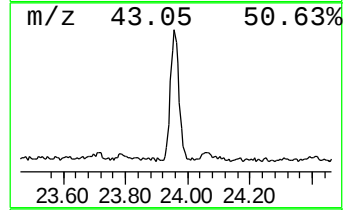
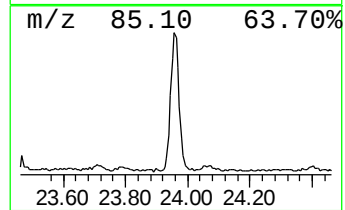
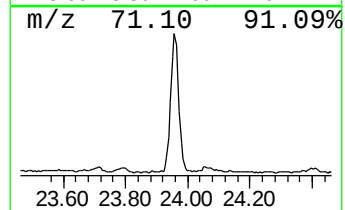
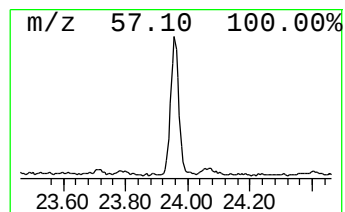
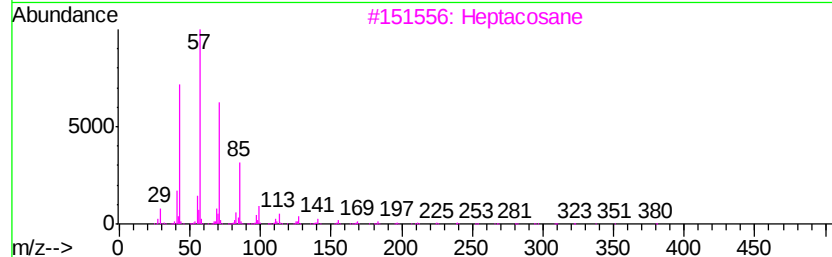
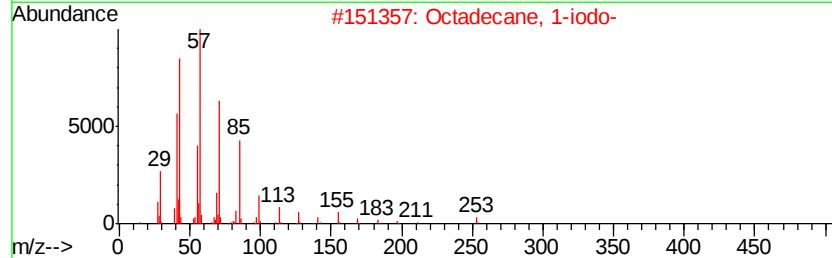
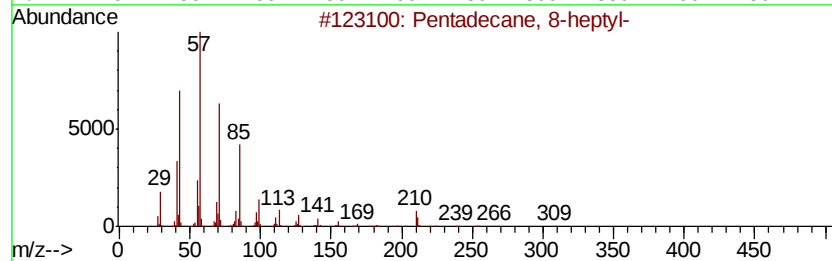
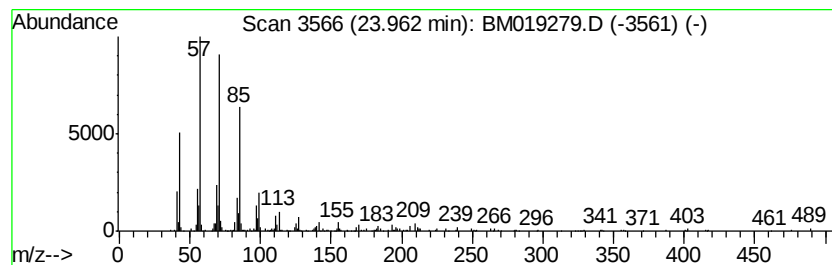
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Pentadecane, 8-heptyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.96 | 3.96 ng | 453433 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-heptyl-         | 310 | C22H46  | 071005-15-7 | 87   |
| 2    |    | Octadecane, 1-iodo-            | 380 | C18H37I | 000629-93-6 | 87   |
| 3    |    | Heptacosane                    | 380 | C27H56  | 000593-49-7 | 81   |
| 4    |    | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 81   |
| 5    |    | Docosane, 5-butyl-             | 366 | C26H54  | 055282-16-1 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032019\  
Data File : BM019279.D  
Acq On : 21 Mar 2019 01:37  
Operator : JU/SJ  
Sample : K1964-05  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM031119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown7.17          | 7.17  | 63.6    | ng    | 3696710  | 1                     | 7.63  | 1161750 | 20.0 |
| n-Hexadecanoic acid  | 17.94 | 4.2     | ng    | 648970   | 4                     | 17.04 | 3119770 | 20.0 |
| Octadecanoic acid    | 19.23 | 3.1     | ng    | 427747   | 5                     | 21.24 | 2777090 | 20.0 |
| Cyclotetradecane     | 20.95 | 2.2     | ng    | 305925   | 5                     | 21.24 | 2777090 | 20.0 |
| Octacosane           | 21.81 | 2.0     | ng    | 281384   | 5                     | 21.24 | 2777090 | 20.0 |
| Heneicosane, 11-(... | 22.26 | 3.6     | ng    | 500719   | 5                     | 21.24 | 2777090 | 20.0 |
| Docosane, 5-butyl-   | 22.76 | 4.8     | ng    | 549340   | 6                     | 23.47 | 2292250 | 20.0 |
| Heneicosane          | 23.32 | 4.9     | ng    | 565876   | 6                     | 23.47 | 2292250 | 20.0 |
| Pentadecane, 8-he... | 23.96 | 4.0     | ng    | 453433   | 6                     | 23.47 | 2292250 | 20.0 |