

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\  
 Data File : BM018919.D  
 Acq On : 25 Feb 2019 18:36  
 Operator : JU/SJ  
 Sample : K1592-03 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-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-BM021119.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         | 5.281       | 367           | 373         | 386          | rBV      | 996189         | 1554358       | 14.13%          | 2.761%        |
| 2         | 6.863       | 635           | 642         | 655          | rBV      | 1005826        | 1717272       | 15.61%          | 3.051%        |
| 3         | 7.222       | 694           | 703         | 712          | rBV      | 1095526        | 1757986       | 15.98%          | 3.123%        |
| 4         | 7.693       | 776           | 783         | 793          | rBV      | 588856         | 931882        | 8.47%           | 1.656%        |
| 5         | 8.004       | 829           | 836         | 846          | rBV      | 761555         | 1230985       | 11.19%          | 2.187%        |
| 6         | 8.857       | 974           | 981         | 996          | rBV      | 555786         | 985742        | 8.96%           | 1.751%        |
| 7         | 10.475      | 1250          | 1256        | 1268         | rVB      | 765045         | 1307733       | 11.89%          | 2.323%        |
| 8         | 12.957      | 1671          | 1678        | 1688         | rBV      | 1374670        | 2020904       | 18.37%          | 3.590%        |
| 9         | 13.804      | 1817          | 1822        | 1828         | rBV      | 70529          | 112779        | 1.03%           | 0.200%        |
| 10        | 14.339      | 1907          | 1913        | 1926         | rBV2     | 1069591        | 1713224       | 15.58%          | 3.044%        |
| 11        | 15.839      | 2162          | 2168        | 2183         | rBV      | 1088665        | 1714683       | 15.59%          | 3.046%        |
| 12        | 17.098      | 2376          | 2382        | 2394         | rBV      | 1401902        | 2080903       | 18.92%          | 3.697%        |
| 13        | 17.992      | 2527          | 2534        | 2561         | rBV      | 3779875        | 6553027       | 59.58%          | 11.642%       |
| 14        | 19.151      | 2728          | 2731        | 2738         | rVV4     | 128052         | 259903        | 2.36%           | 0.462%        |
| 15        | 19.280      | 2746          | 2753        | 2772         | rBV      | 7074949        | 10999407      | 100.00%         | 19.542%       |
| 16        | 19.727      | 2824          | 2829        | 2836         | rVB      | 2439485        | 2872144       | 26.11%          | 5.103%        |
| 17        | 20.992      | 3041          | 3044        | 3049         | rBV      | 223018         | 282623        | 2.57%           | 0.502%        |
| 18        | 21.286      | 3090          | 3094        | 3103         | rBV      | 1867772        | 2571161       | 23.38%          | 4.568%        |
| 19        | 21.427      | 3115          | 3118        | 3122         | rVB      | 439176         | 454804        | 4.13%           | 0.808%        |
| 20        | 21.862      | 3188          | 3192        | 3200         | rVB      | 947739         | 1146650       | 10.42%          | 2.037%        |
| 21        | 22.321      | 3266          | 3270        | 3279         | rVB      | 1587111        | 2072172       | 18.84%          | 3.681%        |
| 22        | 22.827      | 3351          | 3356        | 3365         | rBV      | 1770656        | 2636735       | 23.97%          | 4.684%        |
| 23        | 23.397      | 3447          | 3453        | 3466         | rVB      | 1819736        | 3004740       | 27.32%          | 5.338%        |
| 24        | 23.539      | 3472          | 3477        | 3490         | rVB      | 1323007        | 2477790       | 22.53%          | 4.402%        |
| 25        | 24.039      | 3557          | 3562        | 3574         | rVB      | 1253169        | 2430665       | 22.10%          | 4.318%        |
| 26        | 24.791      | 3685          | 3690        | 3701         | rVB      | 649364         | 1397092       | 12.70%          | 2.482%        |

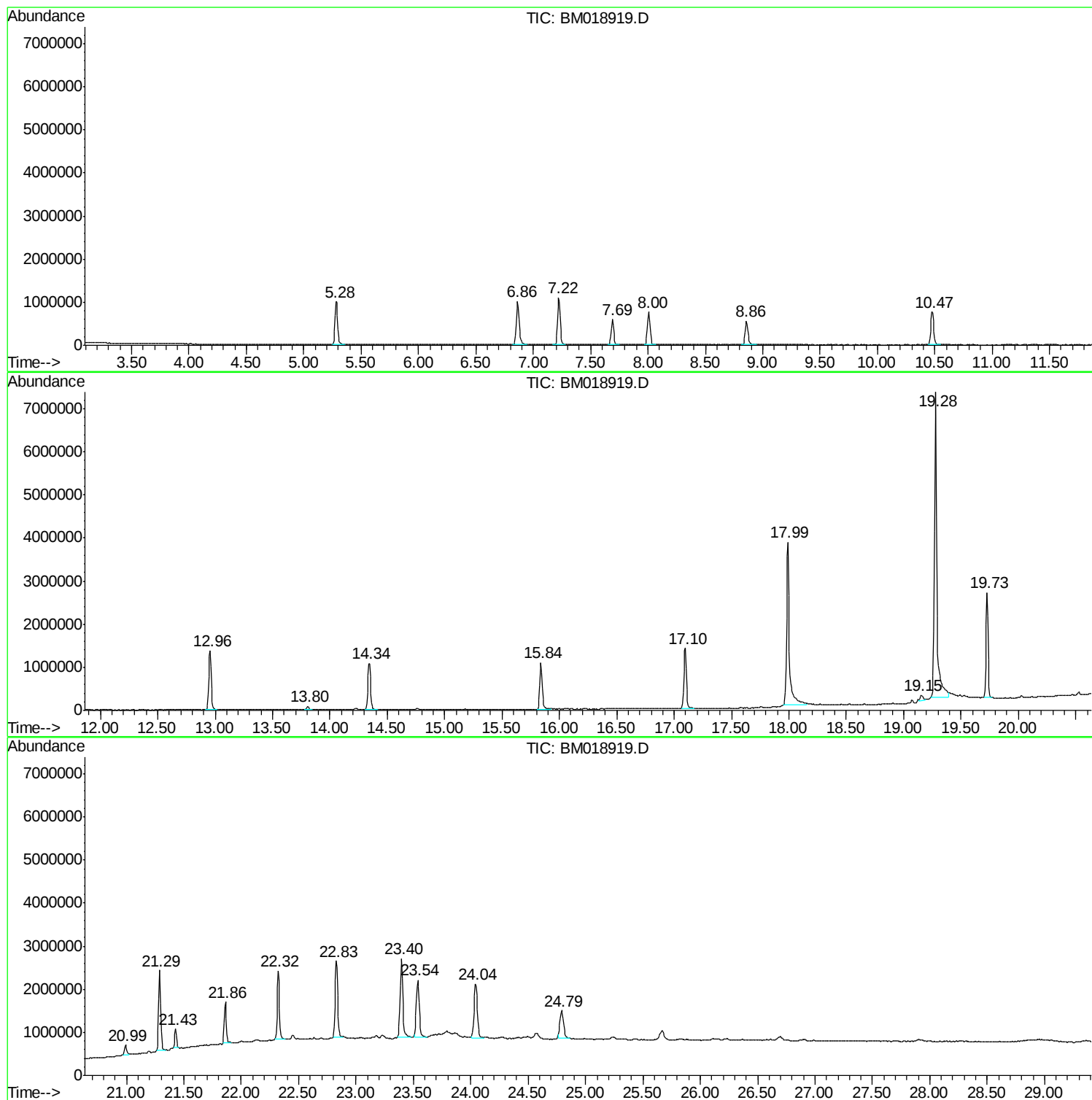
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BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.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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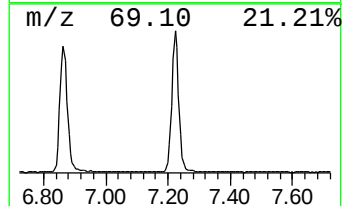
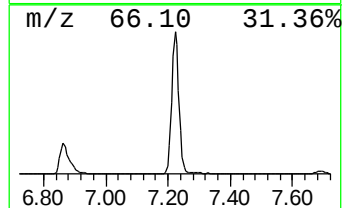
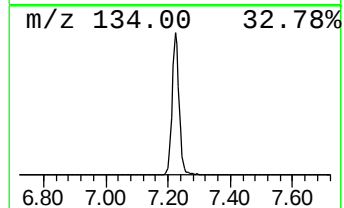
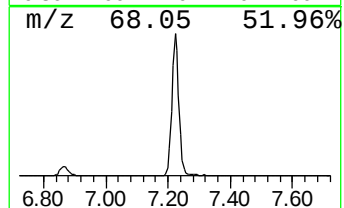
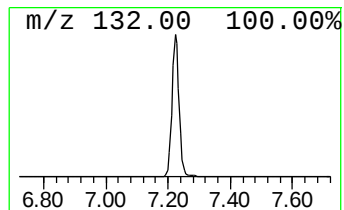
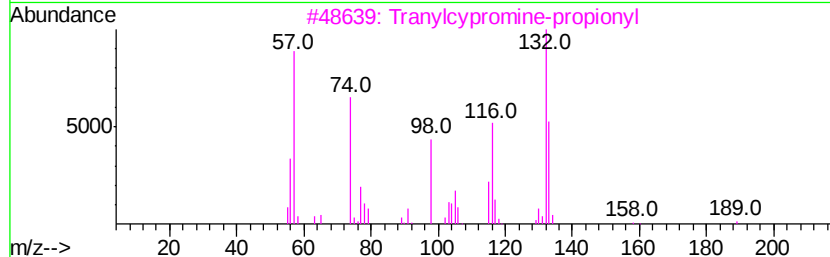
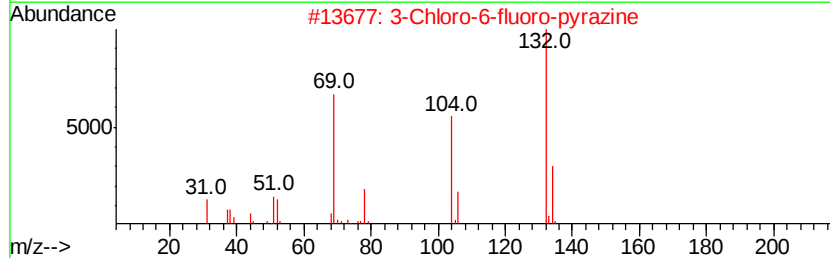
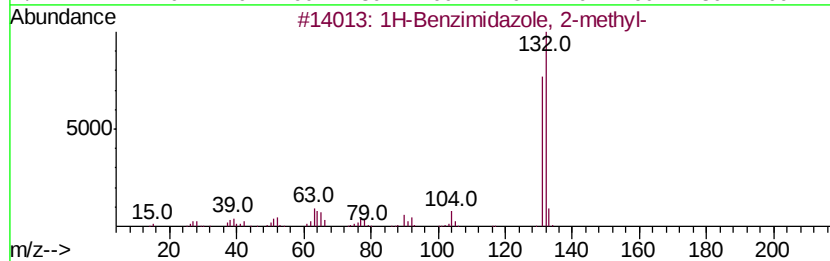
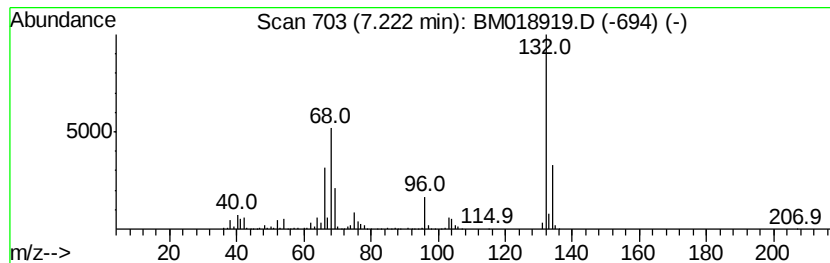
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.22 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.22 | 37.73 ng | 1757990 | 1,4-Dichlorobenzene-d4 | 7.69 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 5    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |



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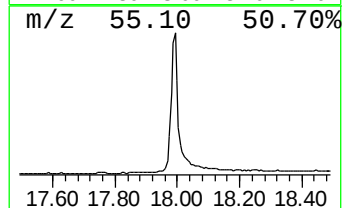
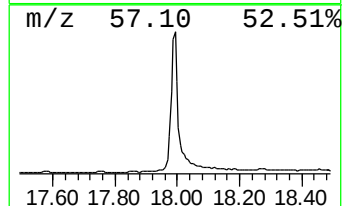
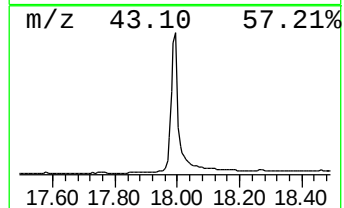
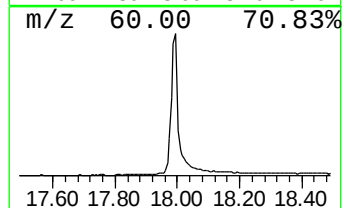
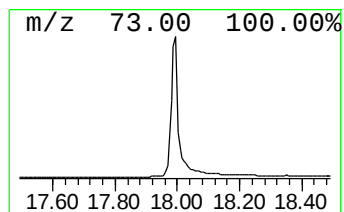
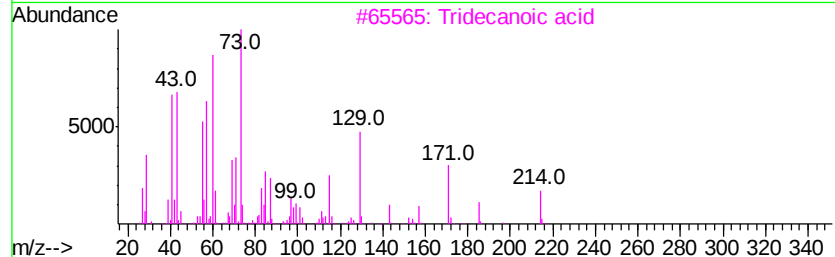
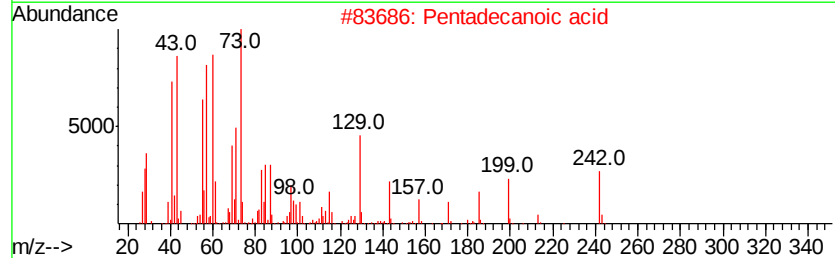
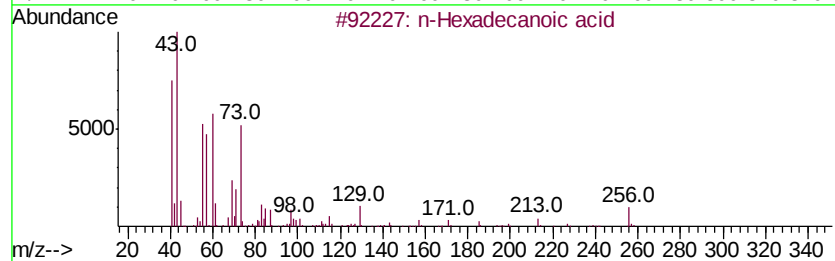
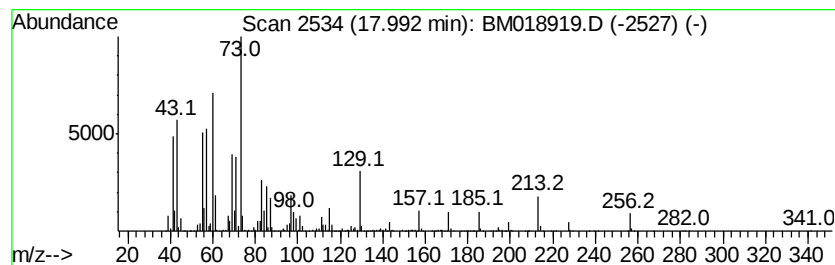
Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.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 2

| R.T.    | EstConc  | Area                | Relative to ISTD |          | R.T.        |      |
|---------|----------|---------------------|------------------|----------|-------------|------|
| 17.99   | 62.98 ng | 6553030             | Phenanthrene-d10 |          | 17.10       |      |
| Hit# of | 5        | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |          | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 98   |
| 2       |          | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 83   |
| 3       |          | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 49   |
| 4       |          | Dodecane            | 170              | C12H26   | 000112-40-3 | 18   |
| 5       |          | Hexadecane          | 226              | C16H34   | 000544-76-3 | 18   |



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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

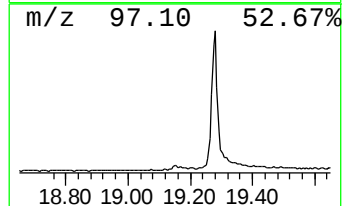
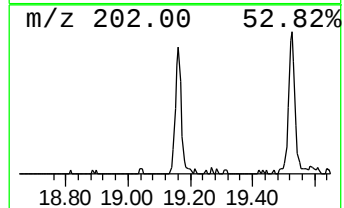
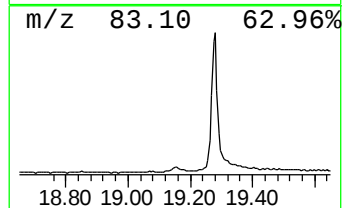
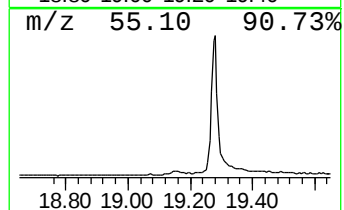
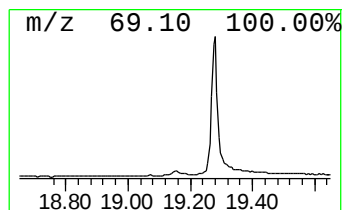
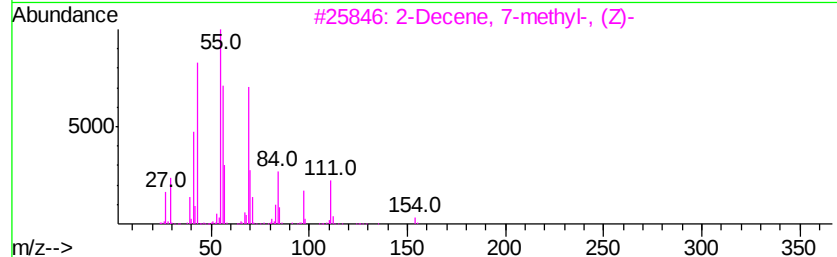
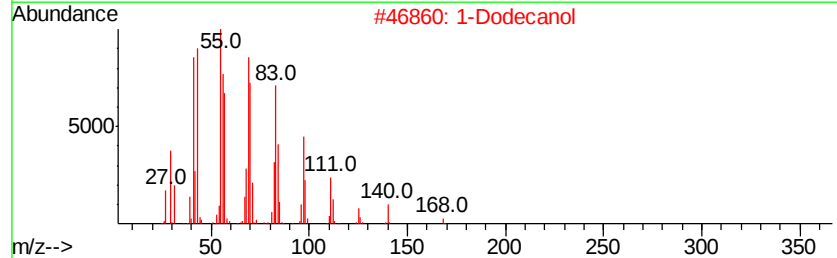
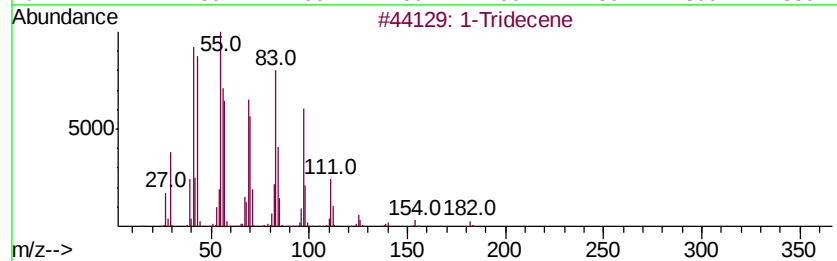
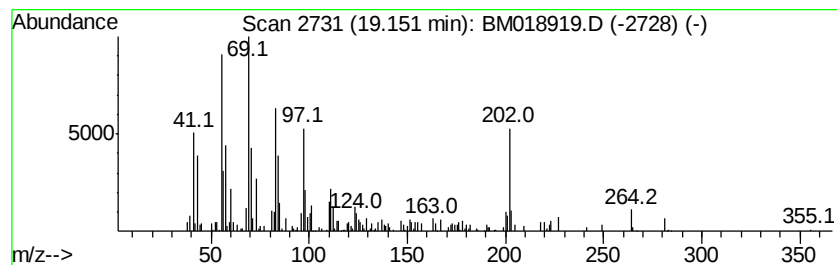
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 1-Tridecene Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.15 | 2.50 ng | 259903 | Phenanthrene-d10 | 17.10 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Tridecene                         | 182 | C13H26  | 002437-56-1 | 70   |
| 2    |    | 1-Dodecanol                         | 186 | C12H26O | 000112-53-8 | 52   |
| 3    |    | 2-Decene, 7-methyl-, (Z)-           | 154 | C11H22  | 074630-23-2 | 46   |
| 4    |    | Cyclopropane, 1,2-dimethyl-1-pen... | 140 | C10H20  | 062238-04-4 | 43   |
| 5    |    | 1-Pentene, 2,3-dimethyl-            | 98  | C7H14   | 003404-72-6 | 38   |



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Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

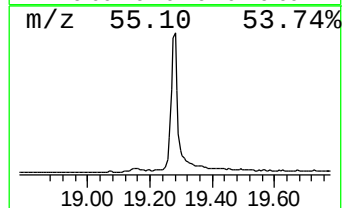
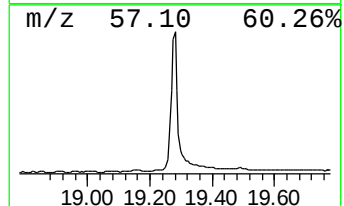
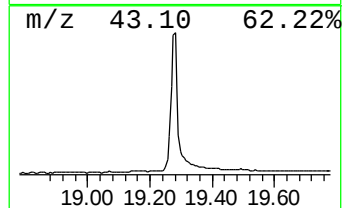
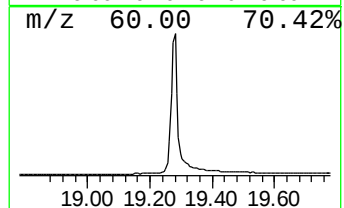
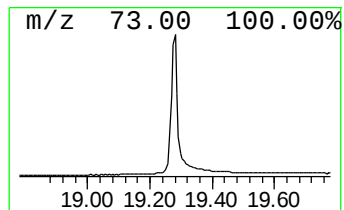
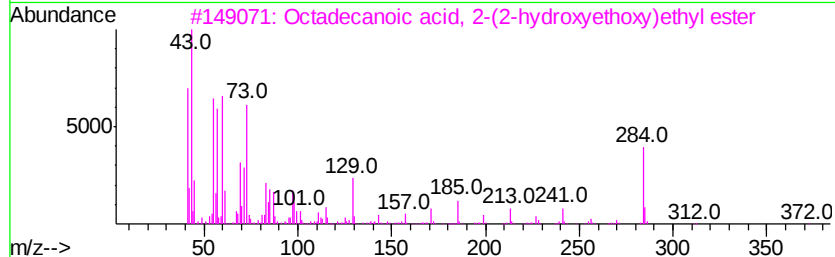
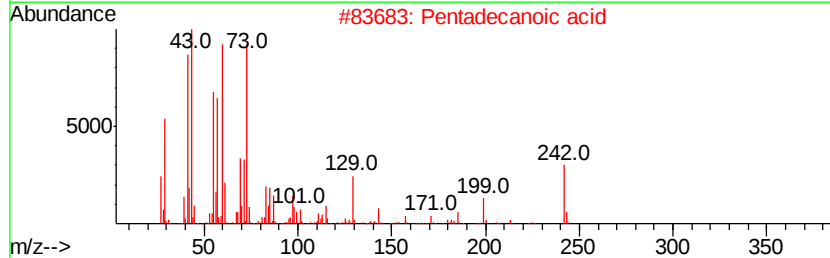
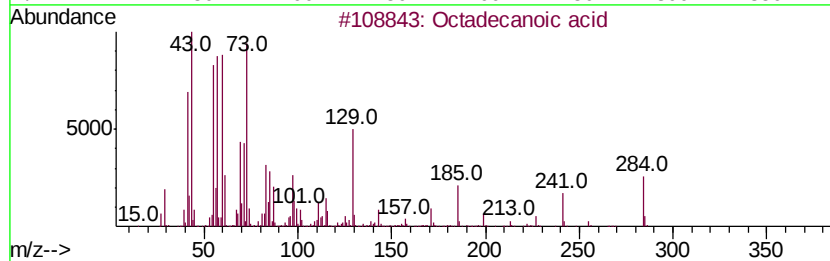
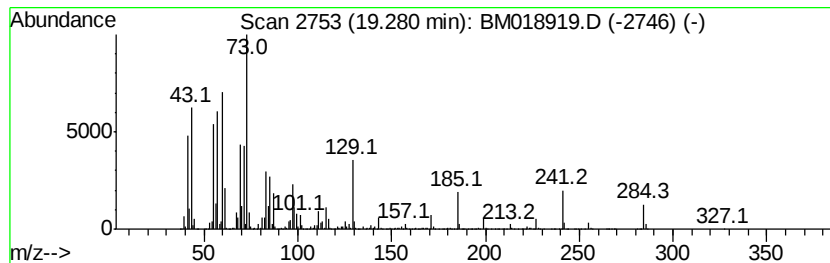
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Peak Number 5 Octadecanoic acid Concentration Rank 1

| R.T.  | EstConc  | Area     | Relative to ISTD | R.T.  |
|-------|----------|----------|------------------|-------|
| 19.28 | 85.56 ng | 10999400 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    | Pentadecanoic acid                   | 242 | C15H30O2 | 001002-84-2 | 90   |
| 3    |    | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 72   |
| 4    |    | Tetradecanoic acid                   | 228 | C14H28O2 | 000544-63-8 | 62   |
| 5    |    | n-Hexadecanoic acid                  | 256 | C16H32O2 | 000057-10-3 | 53   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
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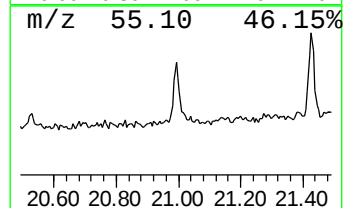
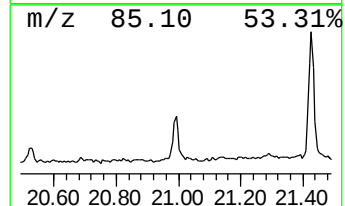
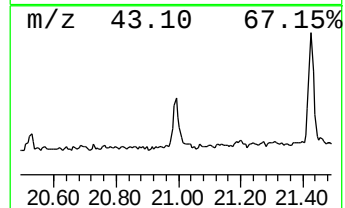
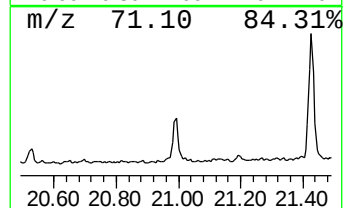
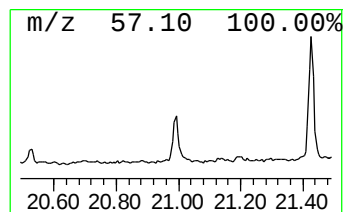
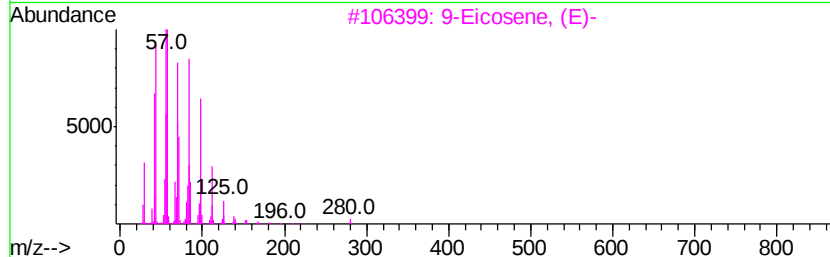
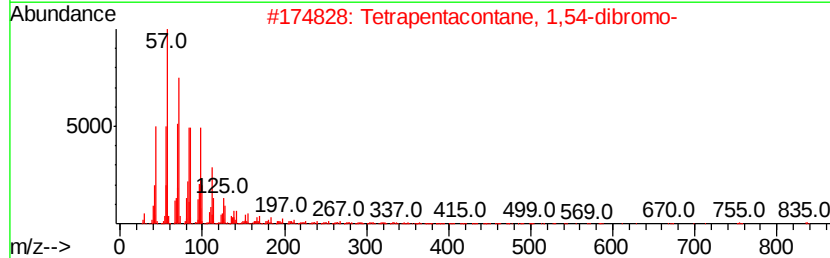
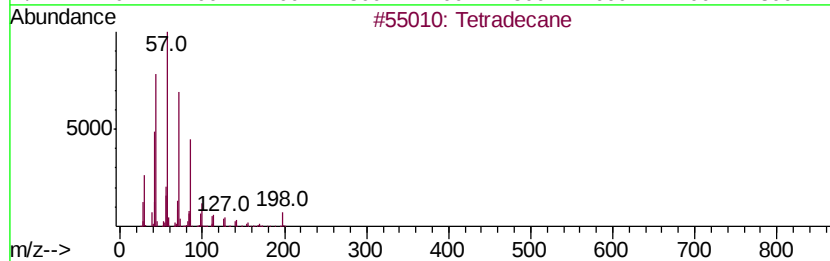
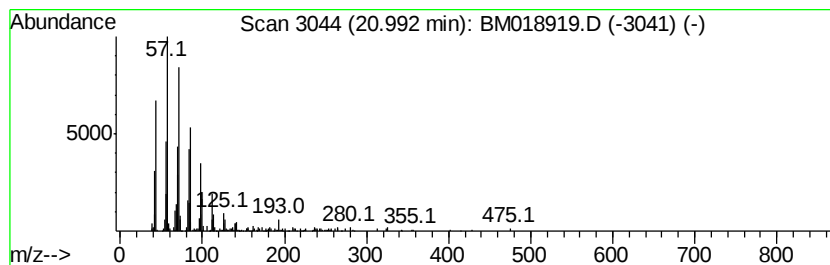
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Tetradecane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.99 | 2.20 ng | 282623 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------|-----|------------|--------------|------|
| 1    | 5  | Tetradecane                      | 198 | C14H30     | 000629-59-4  | 91   |
| 2    |    | Tetrapentacontane, 1,54-dibromo- | 915 | C54H108Br2 | 1000156-09-4 | 86   |
| 3    |    | 9-Eicosene, (E)-                 | 280 | C20H40     | 074685-29-3  | 78   |
| 4    |    | Ethanol, 2-(hexadecyloxy)-       | 286 | C18H38O2   | 002136-71-2  | 74   |
| 5    |    | Heptadecane, 8-methyl-           | 254 | C18H38     | 013287-23-5  | 60   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\  
Data File : BM018919.D  
Acq On : 25 Feb 2019 18:36  
Operator : JU/SJ  
Sample : K1592-03 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

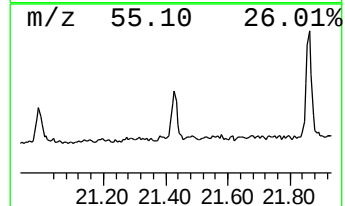
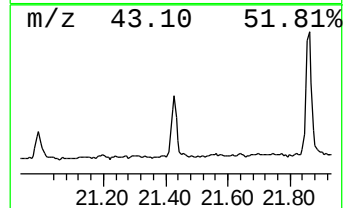
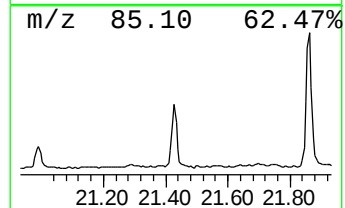
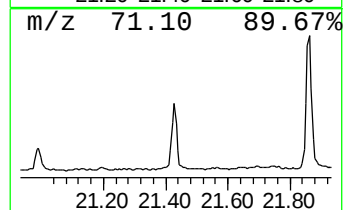
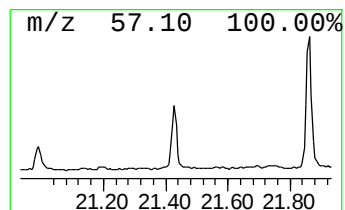
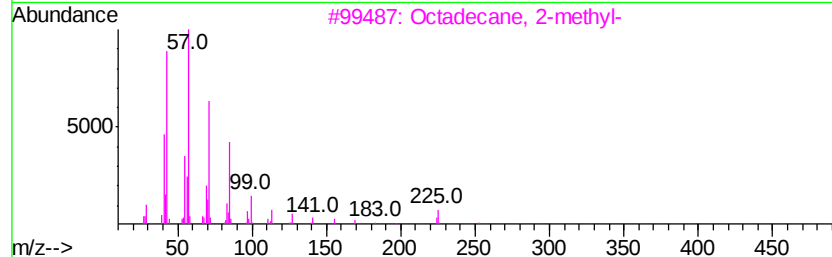
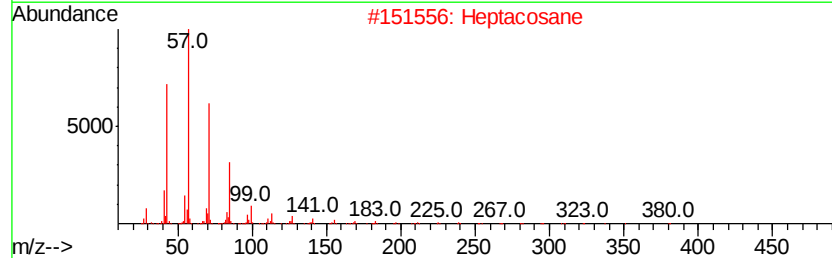
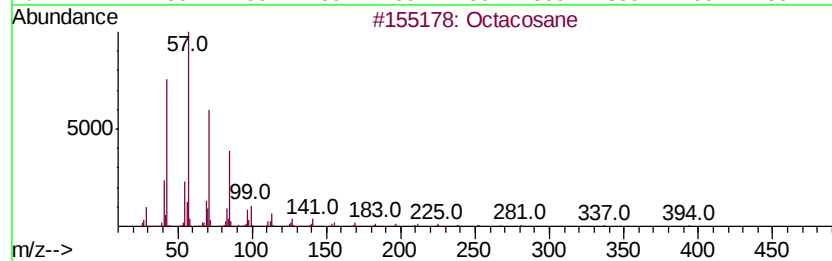
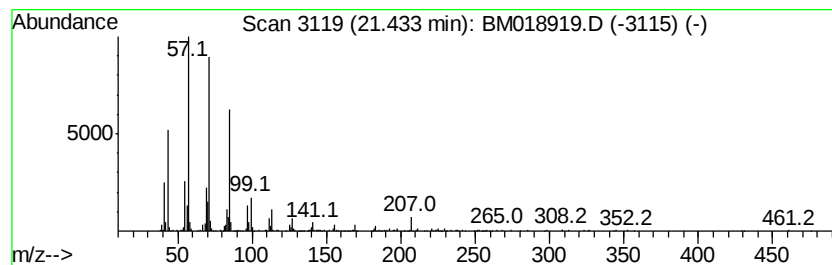
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ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.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 Octacosane Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 21.43     | 3.54 ng                             | 454804 | Chrysene-d12     | 21.29        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Octacosane                          | 394    | C28H58           | 000630-02-4  | 90   |
| 2         | Heptacosane                         | 380    | C27H56           | 000593-49-7  | 87   |
| 3         | Octadecane, 2-methyl-               | 268    | C19H40           | 001560-88-9  | 86   |
| 4         | 2-Thiopheneacetic acid, 4-tetrad... | 338    | C20H34O2S        | 1000280-67-0 | 86   |
| 5         | Tridecane, 6-propyl-                | 226    | C16H34           | 055045-10-8  | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\  
Data File : BM018919.D  
Acq On : 25 Feb 2019 18:36  
Operator : JU/SJ  
Sample : K1592-03 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

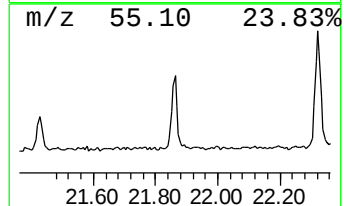
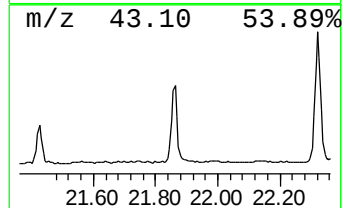
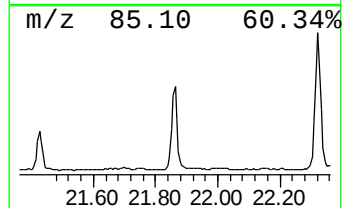
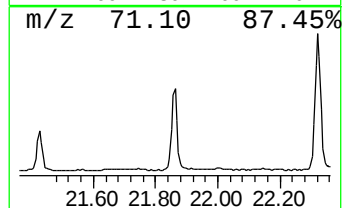
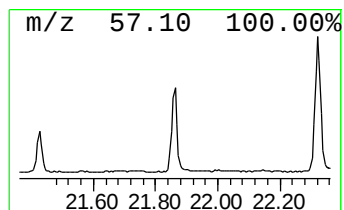
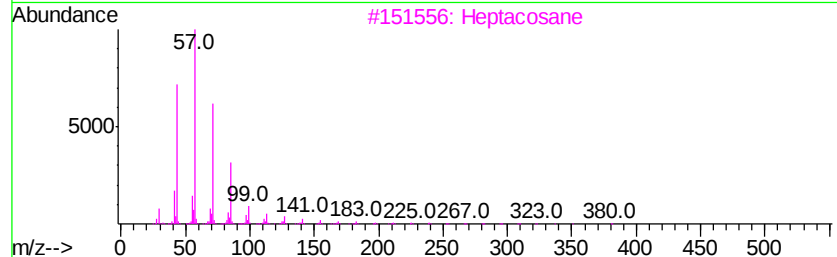
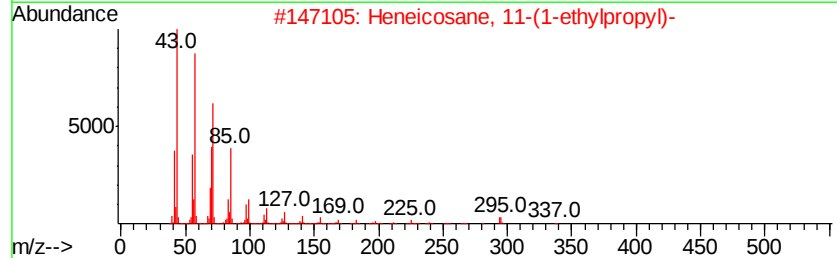
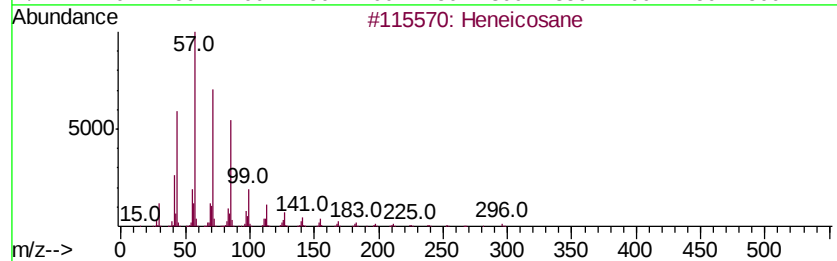
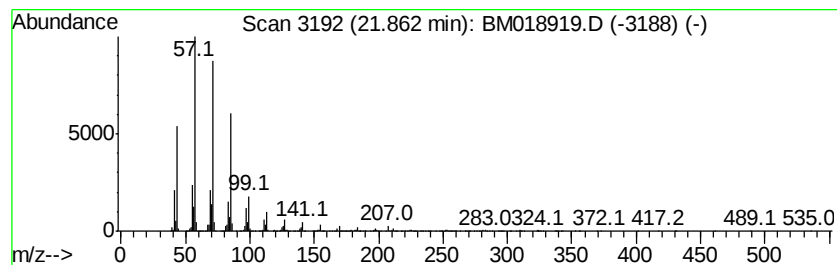
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Heneicosane Concentration Rank 10

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 21.86 | 8.92 ng | 1146650 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 91   |
| 3    |    | Heptacosane                      | 380 | C27H56  | 000593-49-7 | 90   |
| 4    |    | Octadecane, 2-methyl-            | 268 | C19H40  | 001560-88-9 | 90   |
| 5    |    | Pentadecane, 8-heptyl-           | 310 | C22H46  | 071005-15-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\  
 Data File : BM018919.D  
 Acq On : 25 Feb 2019 18:36  
 Operator : JU/SJ  
 Sample : K1592-03 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

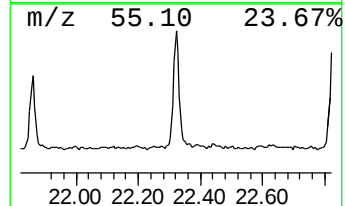
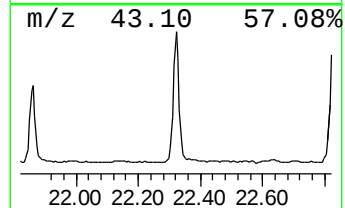
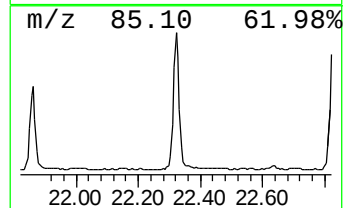
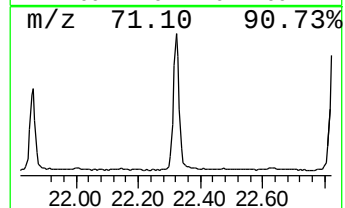
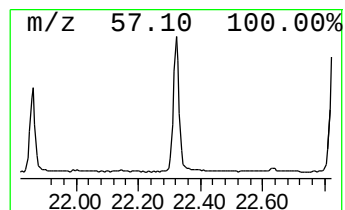
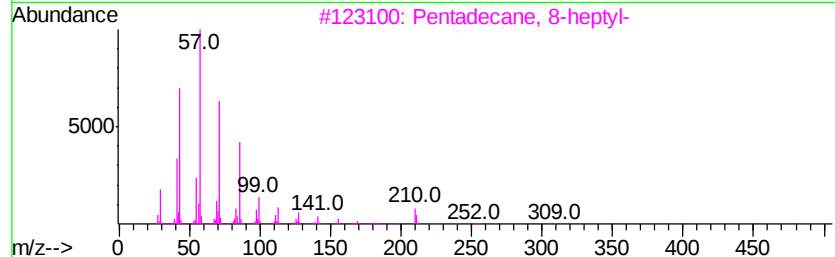
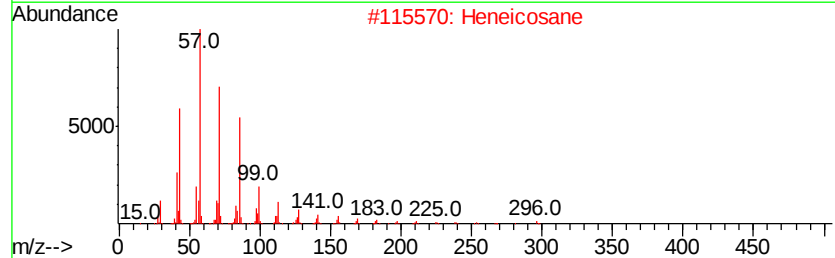
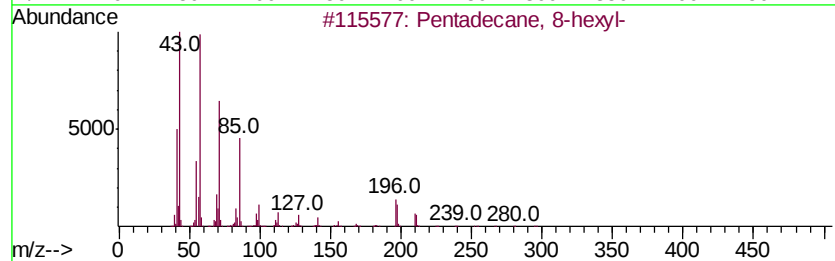
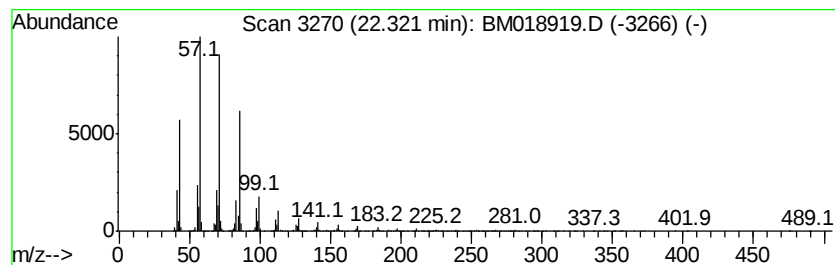
Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.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 Pentadecane, 8-hexyl- Concentration Rank 8

| R.T.    | EstConc  | Area                             | Relative to ISTD | R.T.    |             |      |
|---------|----------|----------------------------------|------------------|---------|-------------|------|
| 22.32   | 16.12 ng | 2072170                          | Chrysene-d12     | 21.29   |             |      |
| Hit# of | 5        | Tentative ID                     | MW               | MolForm | CAS#        | Qual |
| 1       |          | Pentadecane, 8-hexyl-            | 296              | C21H44  | 013475-75-7 | 91   |
| 2       |          | Heneicosane                      | 296              | C21H44  | 000629-94-7 | 91   |
| 3       |          | Pentadecane, 8-heptyl-           | 310              | C22H46  | 071005-15-7 | 91   |
| 4       |          | Heneicosane, 11-(1-ethylpropyl)- | 366              | C26H54  | 055282-11-6 | 91   |
| 5       |          | Heptacosane                      | 380              | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\  
Data File : BM018919.D  
Acq On : 25 Feb 2019 18:36  
Operator : JU/SJ  
Sample : K1592-03 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

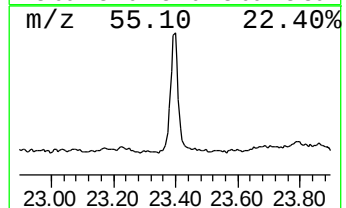
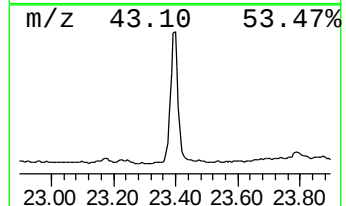
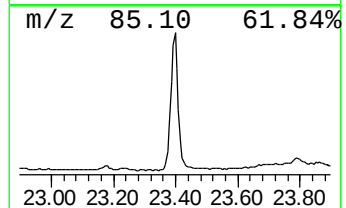
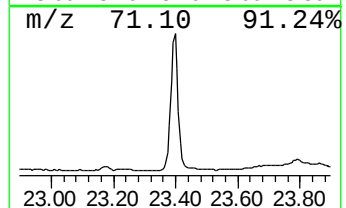
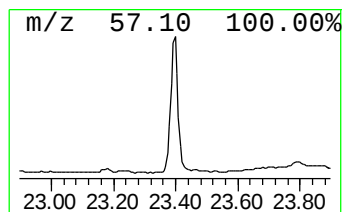
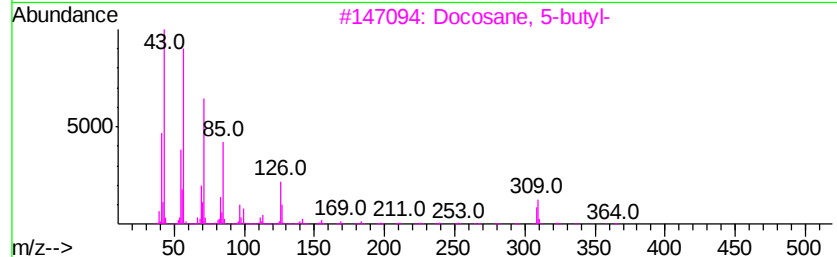
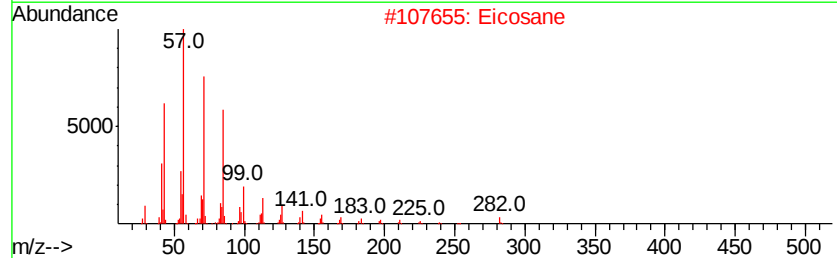
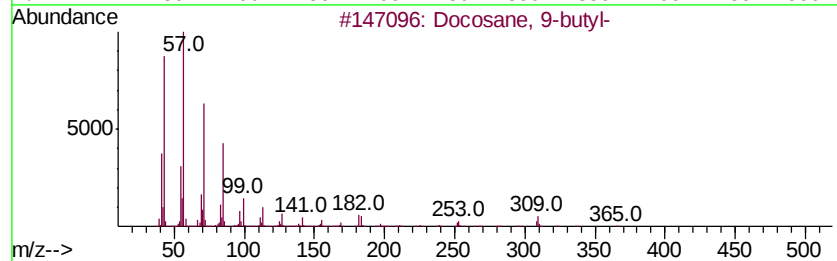
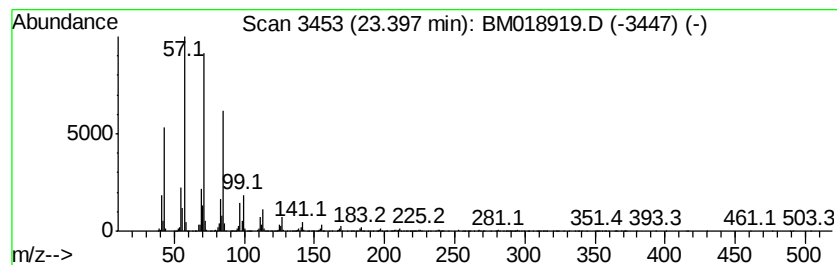
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Docosane, 9-butyl- Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 23.40 | 24.25 ng | 3004740 | Perylene-d12     | 23.54 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 9-butyl-    | 366 | C26H54  | 055282-14-9 | 94   |
| 2    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 94   |
| 3    |    | Docosane, 5-butyl-    | 366 | C26H54  | 055282-16-1 | 93   |
| 4    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Heptadecane, 9-hexyl- | 324 | C23H48  | 055124-79-3 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM022519\  
Data File : BM018919.D  
Acq On : 25 Feb 2019 18:36  
Operator : JU/SJ  
Sample : K1592-03 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-4

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM021119.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 |
| unknown7.22          | 7.22  | 37.7    | ng    | 1757990  | 1                     | 7.69  | 931882  | 20.0 |
| n-Hexadecanoic acid  | 17.99 | 63.0    | ng    | 6553030  | 4                     | 17.10 | 2080900 | 20.0 |
| 1-Tridecene          | 19.15 | 2.5     | ng    | 259903   | 4                     | 17.10 | 2080900 | 20.0 |
| Octadecanoic acid    | 19.28 | 85.6    | ng    | 10999400 | 5                     | 21.29 | 2571160 | 20.0 |
| Tetradecane          | 20.99 | 2.2     | ng    | 282623   | 5                     | 21.29 | 2571160 | 20.0 |
| Octacosane           | 21.43 | 3.5     | ng    | 454804   | 5                     | 21.29 | 2571160 | 20.0 |
| Heneicosane          | 21.86 | 8.9     | ng    | 1146650  | 5                     | 21.29 | 2571160 | 20.0 |
| Pentadecane, 8-he... | 22.32 | 16.1    | ng    | 2072170  | 5                     | 21.29 | 2571160 | 20.0 |
| Docosane, 9-butyl-   | 23.40 | 24.3    | ng    | 3004740  | 6                     | 23.54 | 2477790 | 20.0 |