

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
 Data File : BF115286.D  
 Acq On : 28 Jun 2019 17:29  
 Operator : HP/JU  
 Sample : K3533-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-013-ABCD

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-BF062119.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         | 4.431       | 420           | 424         | 430          | rVB      | 125021         | 146642        | 2.36%           | 0.269%        |
| 2         | 5.195       | 549           | 554         | 557          | rBV      | 4286551        | 4654187       | 74.93%          | 8.541%        |
| 3         | 6.242       | 726           | 732         | 734          | rBV      | 4311014        | 4855988       | 78.18%          | 8.911%        |
| 4         | 6.266       | 734           | 736         | 743          | rVB      | 123614         | 113905        | 1.83%           | 0.209%        |
| 5         | 6.366       | 748           | 753         | 756          | rBV      | 5148447        | 5030246       | 80.99%          | 9.231%        |
| 6         | 6.595       | 788           | 792         | 796          | rBV      | 1678989        | 1363417       | 21.95%          | 2.502%        |
| 7         | 6.754       | 815           | 819         | 822          | rBV      | 4752760        | 4029871       | 64.88%          | 7.395%        |
| 8         | 7.160       | 882           | 888         | 891          | rBV      | 3314619        | 3165602       | 50.97%          | 5.809%        |
| 9         | 7.878       | 1006          | 1010        | 1013         | rBV      | 2084058        | 1738203       | 27.99%          | 3.190%        |
| 10        | 8.954       | 1188          | 1193        | 1196         | rBV      | 6004119        | 5778718       | 93.04%          | 10.604%       |
| 11        | 9.348       | 1256          | 1260        | 1266         | rBV      | 977700         | 772152        | 12.43%          | 1.417%        |
| 12        | 9.624       | 1302          | 1307        | 1310         | rBV      | 2130851        | 2062198       | 33.20%          | 3.784%        |
| 13        | 10.407      | 1435          | 1440        | 1443         | rBV      | 3759001        | 3759793       | 60.53%          | 6.899%        |
| 14        | 11.095      | 1553          | 1557        | 1560         | rBV      | 2669846        | 2231326       | 35.93%          | 4.095%        |
| 15        | 11.642      | 1644          | 1650        | 1658         | rBV2     | 273850         | 327207        | 5.27%           | 0.600%        |
| 16        | 12.295      | 1758          | 1761        | 1765         | rBV      | 94892          | 80197         | 1.29%           | 0.147%        |
| 17        | 12.424      | 1779          | 1783        | 1794         | rBV      | 172368         | 271820        | 4.38%           | 0.499%        |
| 18        | 12.518      | 1795          | 1799        | 1802         | rVB      | 92719          | 100638        | 1.62%           | 0.185%        |
| 19        | 12.683      | 1822          | 1827        | 1830         | rBV      | 5844036        | 6211008       | 100.00%         | 11.398%       |
| 20        | 13.612      | 1980          | 1985        | 1997         | rBV4     | 234354         | 904800        | 14.57%          | 1.660%        |
| 21        | 13.712      | 1998          | 2002        | 2005         | rVV      | 2477661        | 2195375       | 35.35%          | 4.029%        |
| 22        | 13.912      | 2033          | 2036        | 2040         | rBV      | 119177         | 118996        | 1.92%           | 0.218%        |
| 23        | 14.218      | 2085          | 2088        | 2091         | rBV      | 219585         | 190465        | 3.07%           | 0.350%        |
| 24        | 14.512      | 2134          | 2138        | 2142         | rBV      | 331230         | 292803        | 4.71%           | 0.537%        |
| 25        | 14.812      | 2184          | 2189        | 2194         | rBV      | 388024         | 435203        | 7.01%           | 0.799%        |
| 26        | 15.071      | 2228          | 2233        | 2240         | rVV      | 1812137        | 2126689       | 34.24%          | 3.903%        |
| 27        | 15.142      | 2241          | 2245        | 2252         | rVB      | 421190         | 484039        | 7.79%           | 0.888%        |
| 28        | 15.524      | 2305          | 2310        | 2315         | rBV      | 330029         | 510707        | 8.22%           | 0.937%        |
| 29        | 15.959      | 2378          | 2384        | 2392         | rBV      | 205420         | 382819        | 6.16%           | 0.702%        |
| 30        | 16.465      | 2466          | 2470        | 2478         | rVB      | 87136          | 159210        | 2.56%           | 0.292%        |

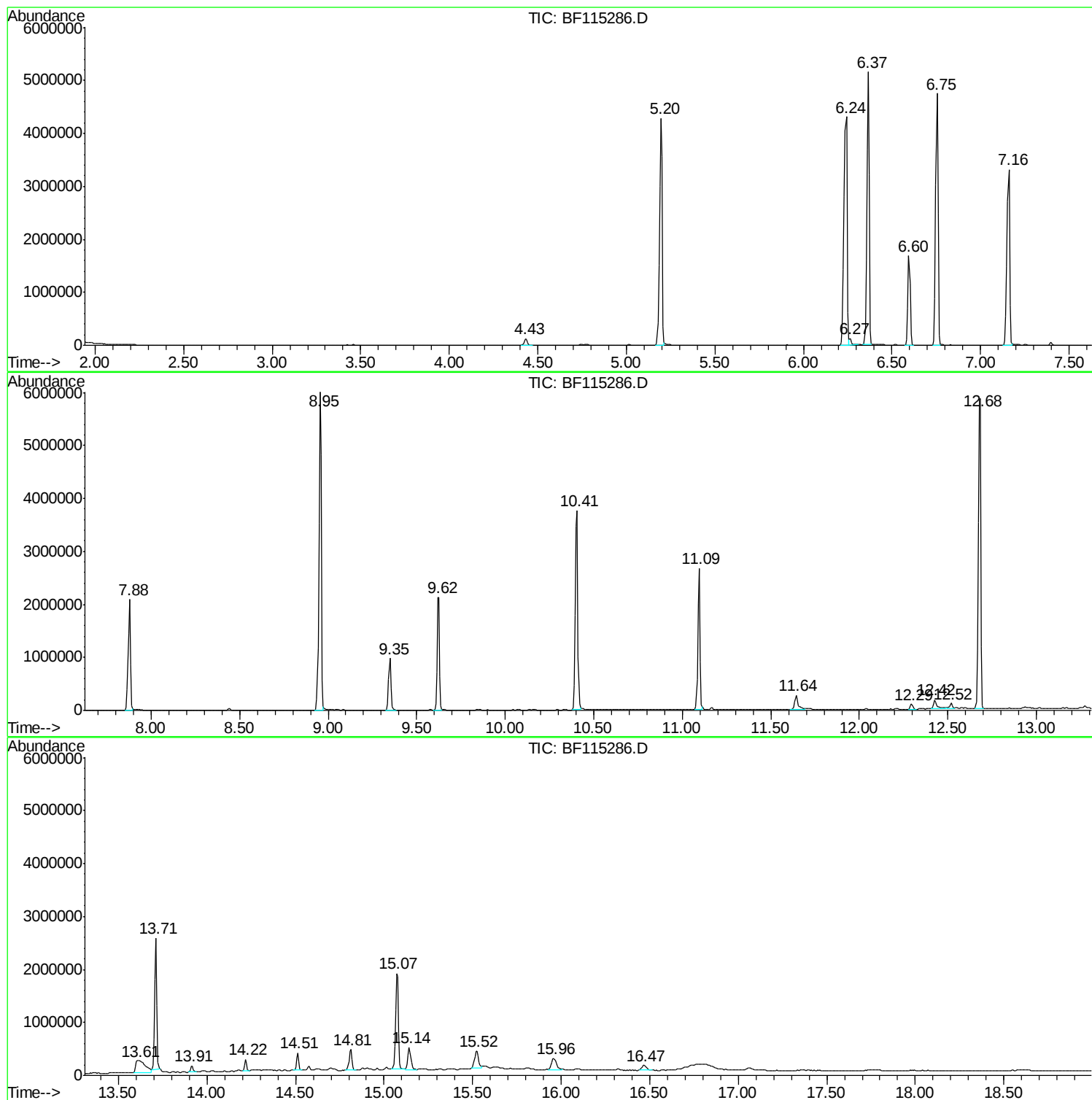
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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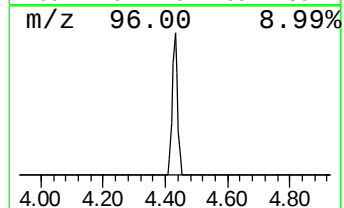
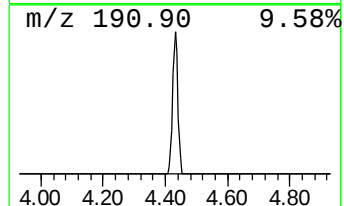
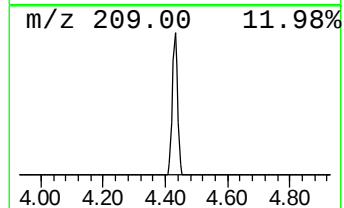
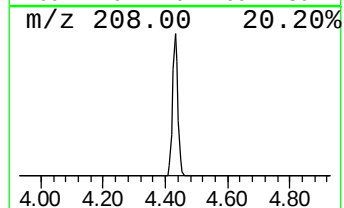
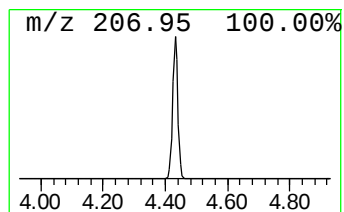
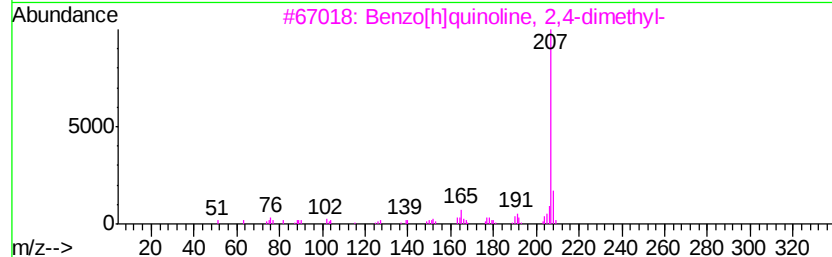
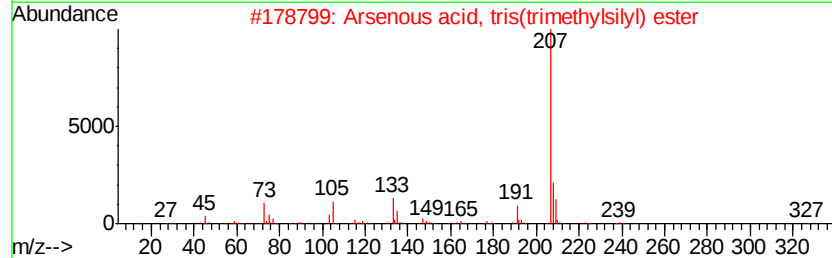
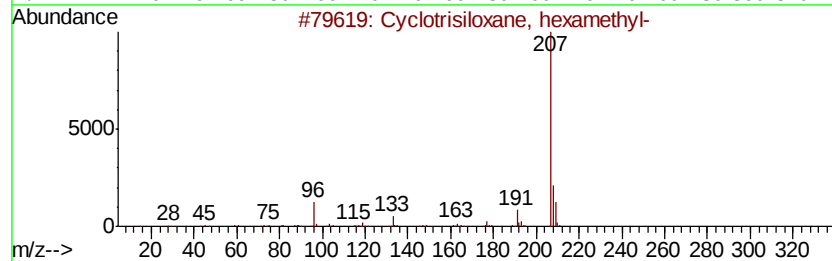
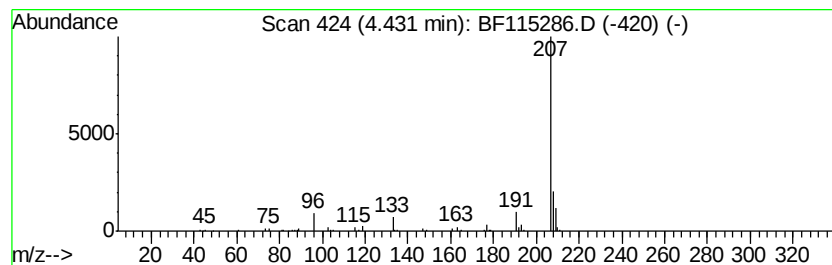
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclotrisiloxane, hexamethyl- Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.43 | 2.15 ng | 146642 | 1,4-Dichlorobenzene-d4 | 6.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#        | Qual |
|------|----|-------------------------------------|-----|--------------|-------------|------|
| 1    | 5  | Cyclotrisiloxane, hexamethyl-       | 222 | C6H18O3Si3   | 000541-05-9 | 90   |
| 2    |    | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 83   |
| 3    |    | Benzo[h]quinoline, 2,4-dimethyl-    | 207 | C15H13N      | 000605-67-4 | 45   |
| 4    |    | 1H-Indole, 1-methyl-2-phenyl-       | 207 | C15H13N      | 003558-24-5 | 39   |
| 5    |    | 5-Methyl-2-phenylindolizine         | 207 | C15H13N      | 036944-99-7 | 39   |



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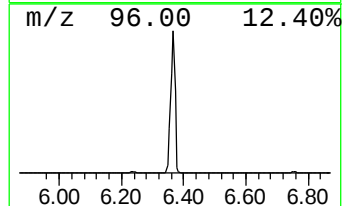
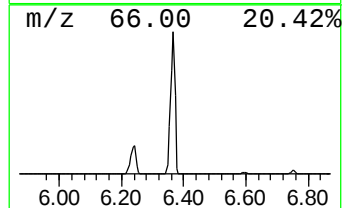
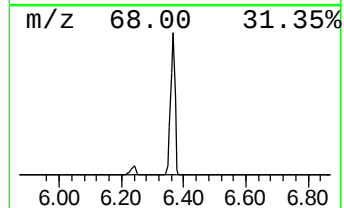
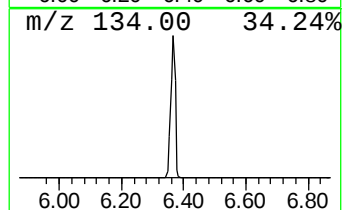
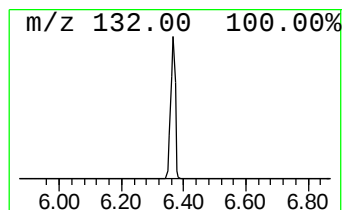
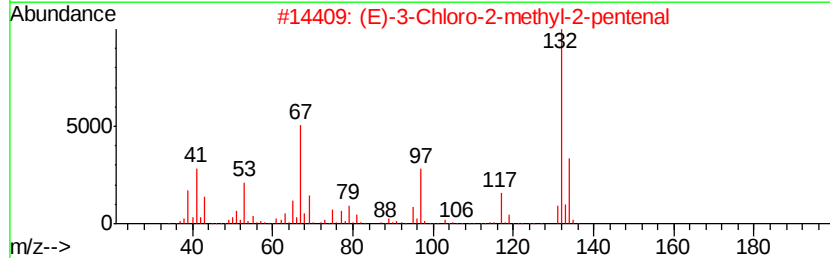
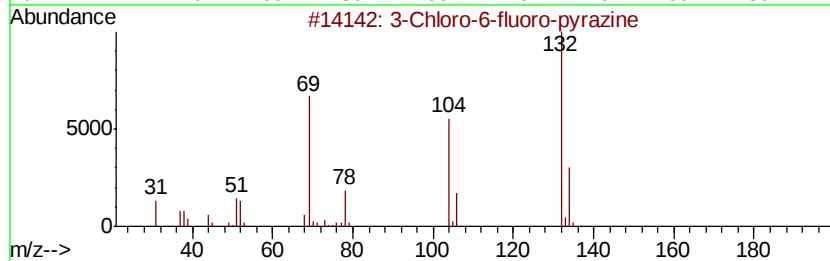
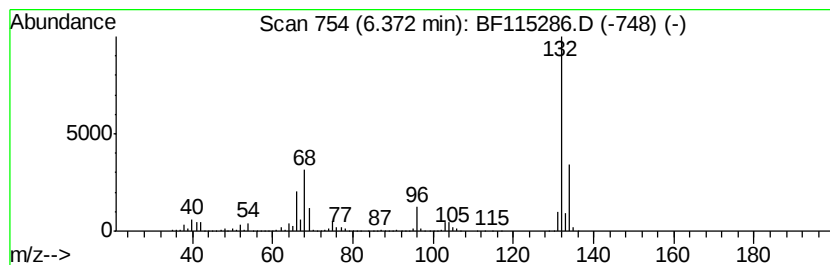
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.37 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.37 | 73.79 ng | 5030250 | 1,4-Dichlorobenzene-d4 | 6.60 |

| 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  | 16   |
| 3    |    | Tranvlcypropine-propionyl          | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 2H-Cyclopentadlpyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    | Xenon                              | 132 | Xe        | 007440-63-3  | 9    |



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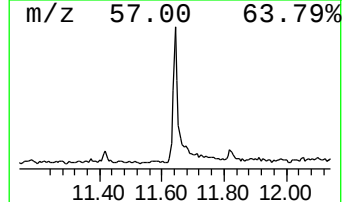
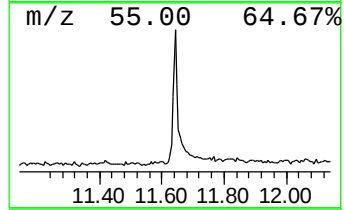
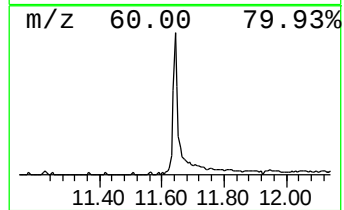
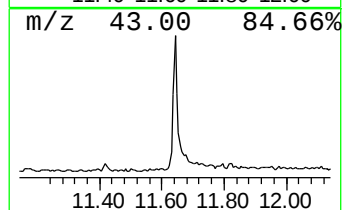
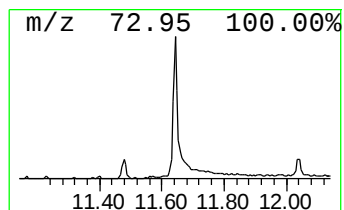
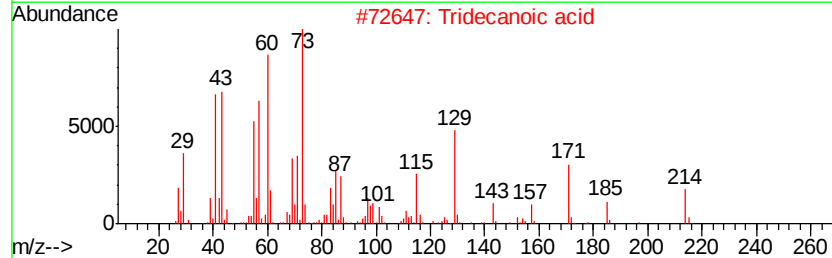
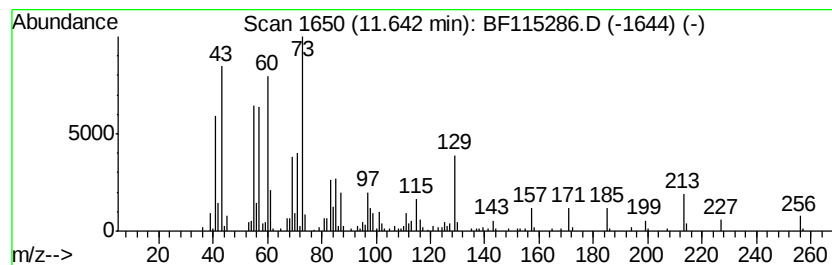
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.64 | 2.93 ng | 327207 | Phenanthrene-d10 | 11.10 |

| 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 | 94   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 80   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 76   |



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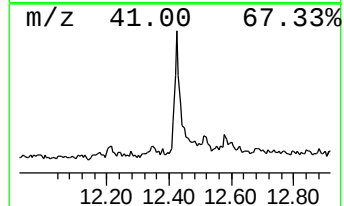
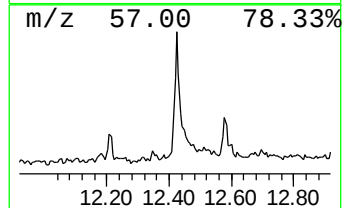
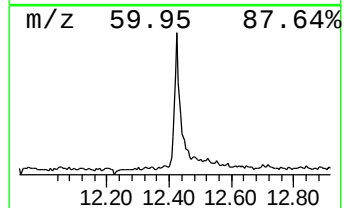
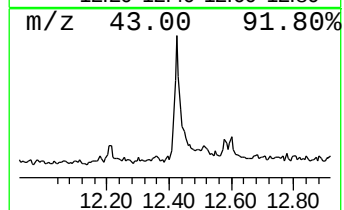
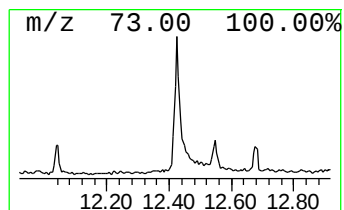
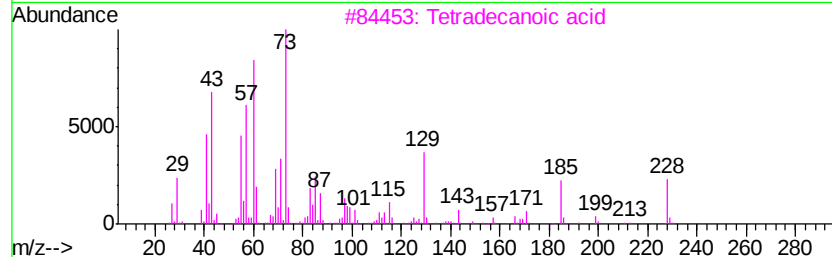
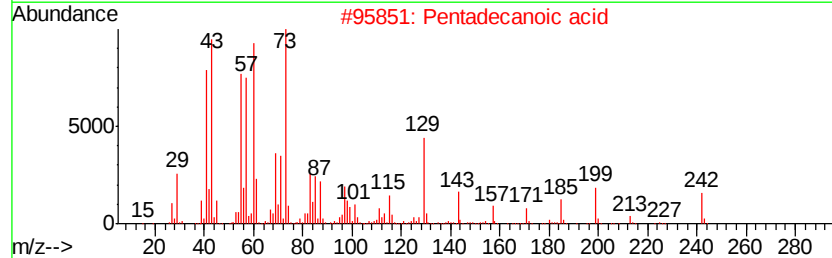
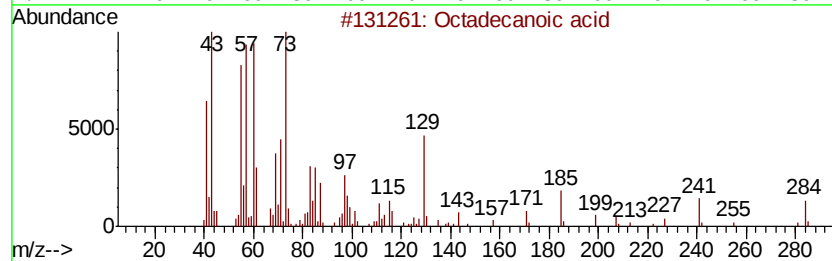
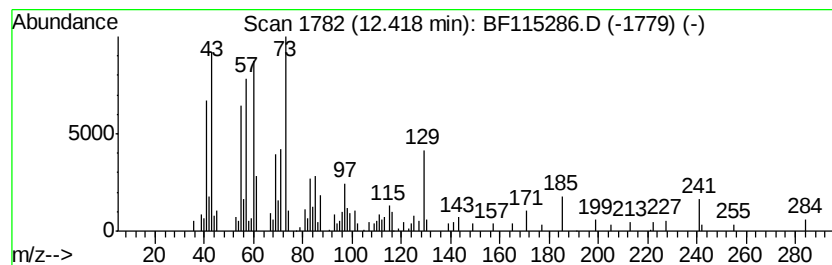
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 5 Octadecanoic acid Concentration Rank 10

| R.T.    | EstConc | Area               | Relative to ISTD | R.T.           |
|---------|---------|--------------------|------------------|----------------|
| 12.42   | 2.48 ng | 271820             | Chrysene-d12     | 13.71          |
| 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-Decanoic acid    | 172 C10H20O2     | 000334-48-5 70 |
| 5       |         | Undecanoic acid    | 186 C11H22O2     | 000112-37-8 55 |



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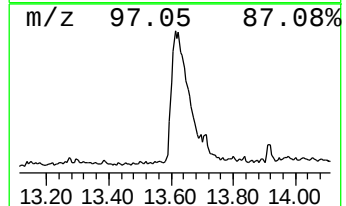
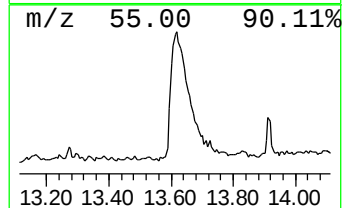
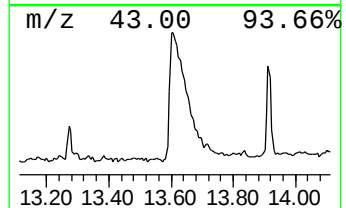
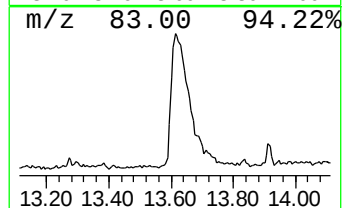
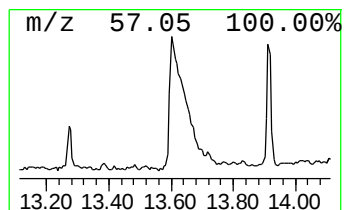
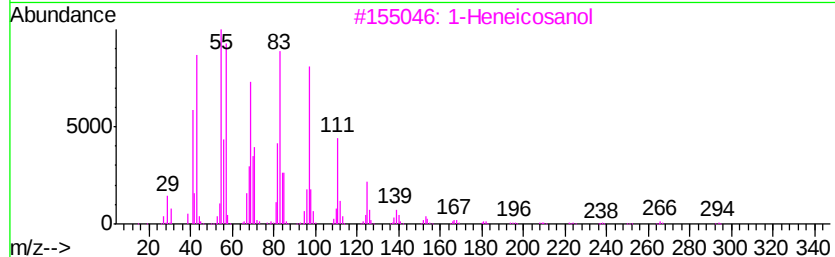
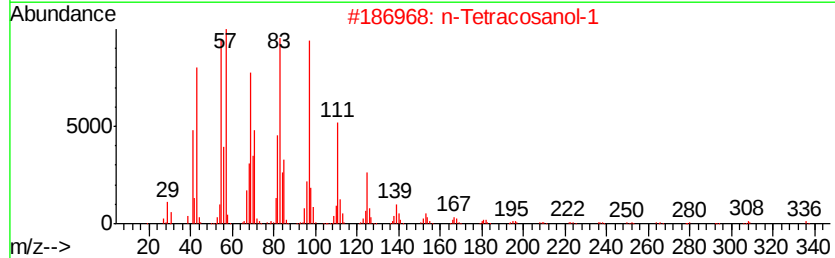
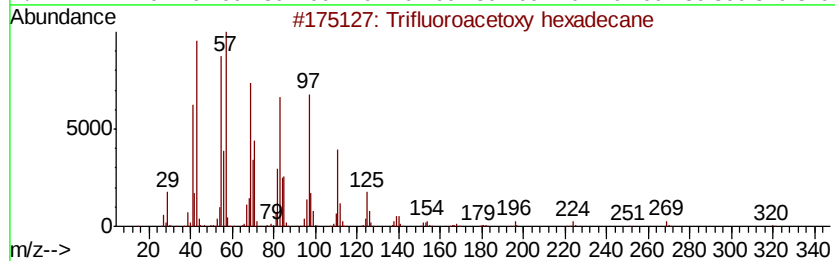
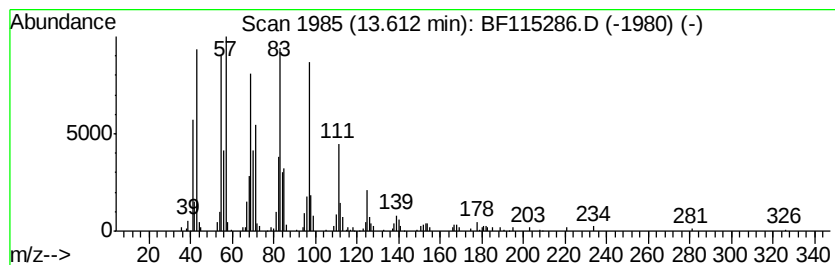
Instrument :  
BNA\_F  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Trifluoroacetoxy hexadecane Concentration Rank 3

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 13.61     | 8.24 ng                     | 904800 | Chrysene-d12     | 13.71       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Trifluoroacetoxy hexadecane | 338    | C18H33F3O2       | 006222-03-3 | 95   |
| 2         | n-Tetracosanol-1            | 354    | C24H50O          | 000506-51-4 | 95   |
| 3         | 1-Heneicosanol              | 312    | C21H44O          | 015594-90-8 | 95   |
| 4         | 1-Heneicosyl formate        | 340    | C22H44O2         | 077899-03-7 | 95   |
| 5         | Behenic alcohol             | 326    | C22H46O          | 000661-19-8 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
Data File : BF115286.D  
Acq On : 28 Jun 2019 17:29  
Operator : HP/JU  
Sample : K3533-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

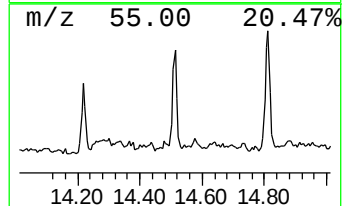
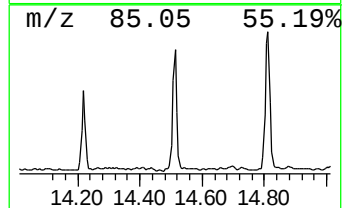
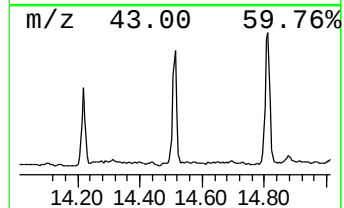
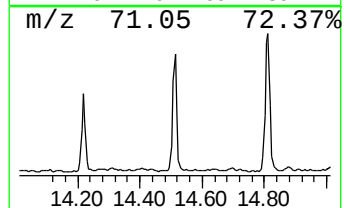
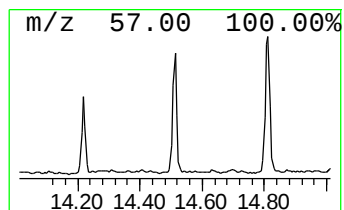
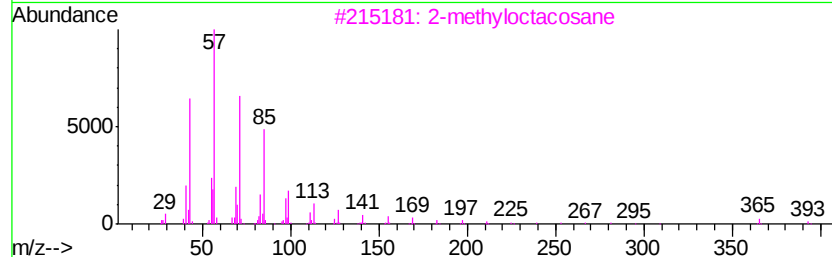
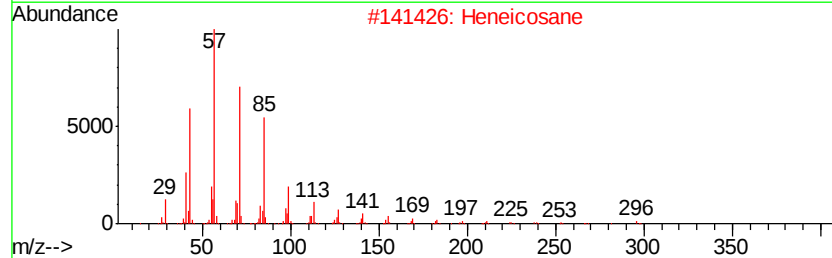
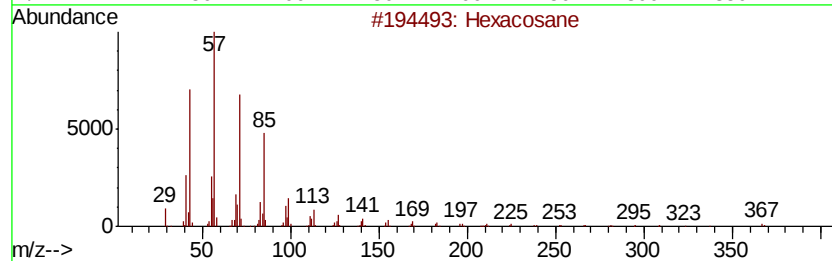
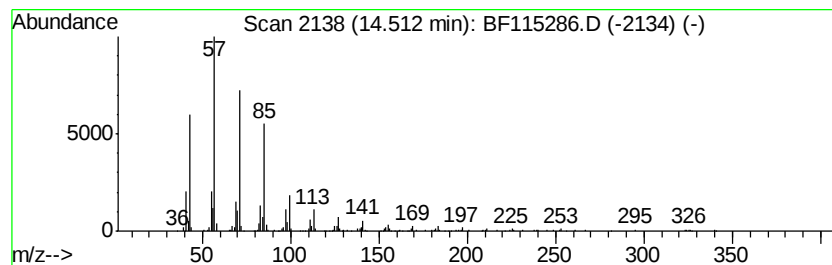
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hexacosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.51 | 2.75 ng | 292803 | Perylene-d12     | 15.07 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Hexacosane         |              | 366 | C26H54  | 000630-01-3  | 91   |
| 2       | Heneicosane        |              | 296 | C21H44  | 000629-94-7  | 91   |
| 3       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 4       | Tetracosane        |              | 338 | C24H50  | 000646-31-1  | 91   |
| 5       | Eicosane, 7-hexyl- |              | 366 | C26H54  | 055333-99-8  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
Data File : BF115286.D  
Acq On : 28 Jun 2019 17:29  
Operator : HP/JU  
Sample : K3533-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

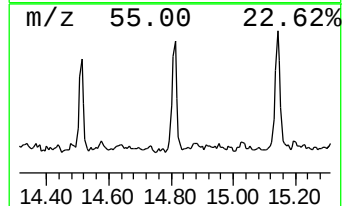
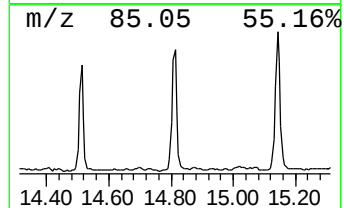
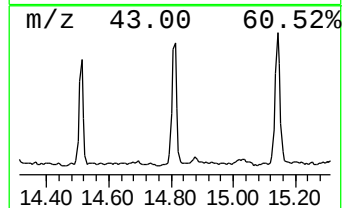
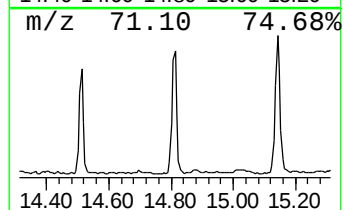
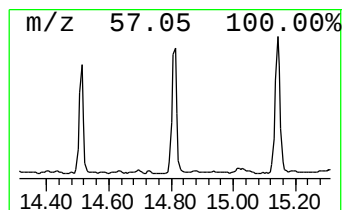
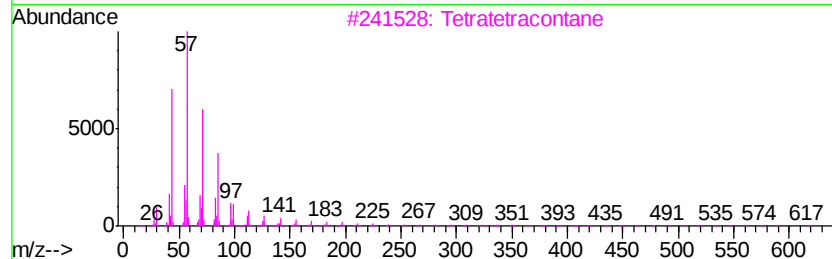
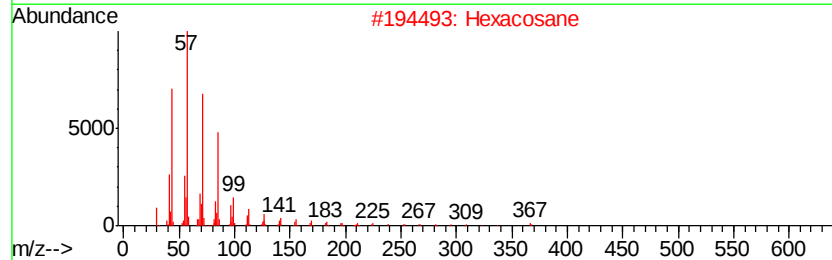
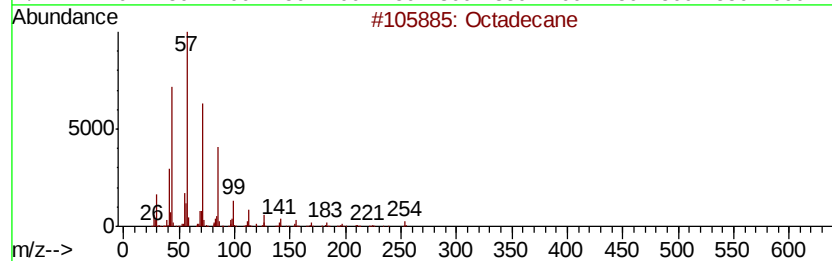
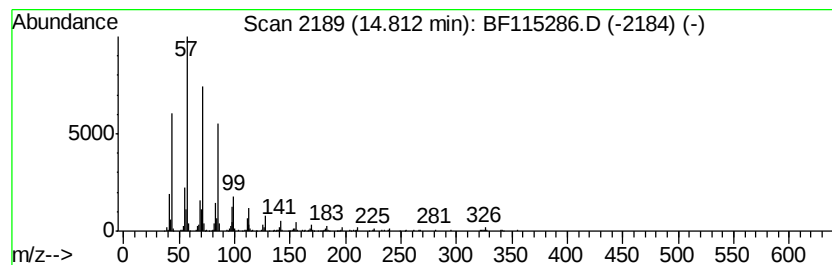
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octadecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.81 | 4.09 ng | 435203 | Perylene-d12     | 15.07 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Octadecane         | 254 | C18H38  | 000593-45-3  | 93   |
| 2    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 91   |
| 3    |    | Tetratetracontane  | 619 | C44H90  | 007098-22-8  | 91   |
| 4    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 5    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
Data File : BF115286.D  
Acq On : 28 Jun 2019 17:29  
Operator : HP/JU  
Sample : K3533-01  
Misc :  
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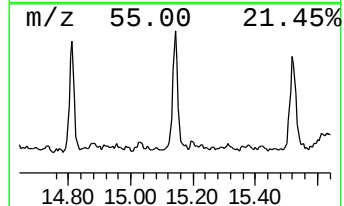
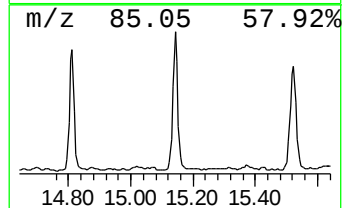
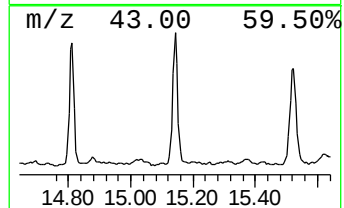
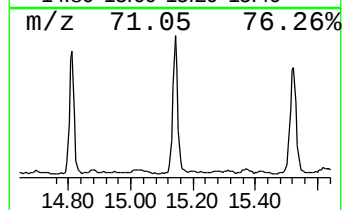
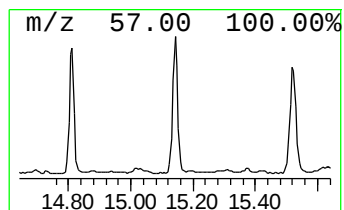
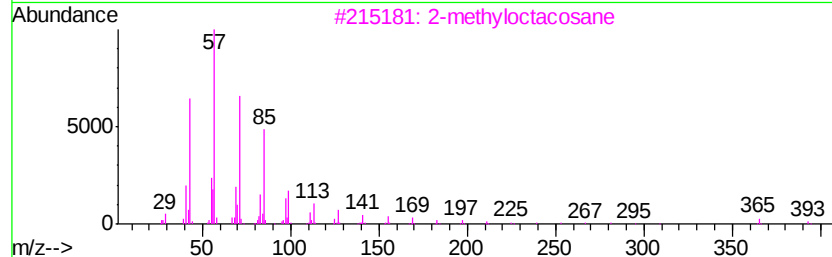
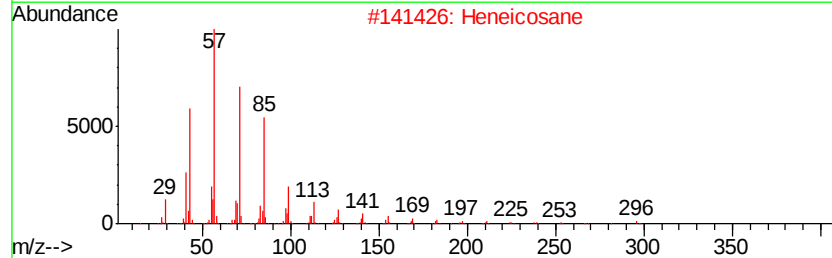
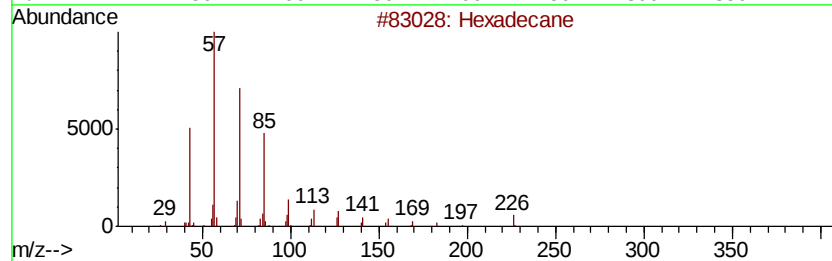
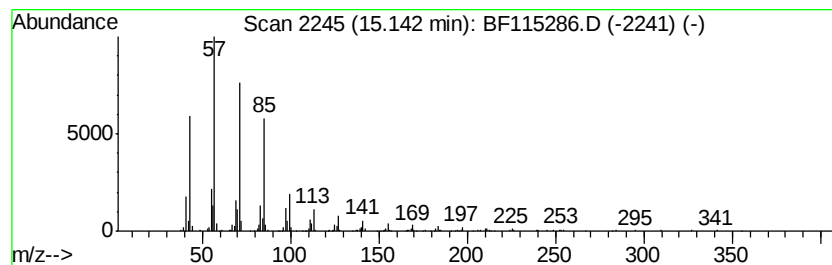
Instrument :  
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ClientSampleId :  
FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.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 Hexadecane Concentration Rank 5

| R.T.      | EstConc            | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------|--------|------------------|--------------|------|
| 15.14     | 4.55 ng            | 484039 | Perylene-d12     | 15.07        |      |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#         | Qual |
| 1         | Hexadecane         | 226    | C16H34           | 000544-76-3  | 93   |
| 2         | Heneicosane        | 296    | C21H44           | 000629-94-7  | 91   |
| 3         | 2-methyloctacosane | 408    | C29H60           | 1000376-72-8 | 91   |
| 4         | Octacosane         | 394    | C28H58           | 000630-02-4  | 91   |
| 5         | Hexacosane         | 366    | C26H54           | 000630-01-3  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
Data File : BF115286.D  
Acq On : 28 Jun 2019 17:29  
Operator : HP/JU  
Sample : K3533-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

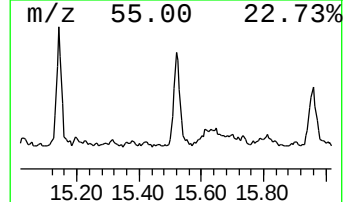
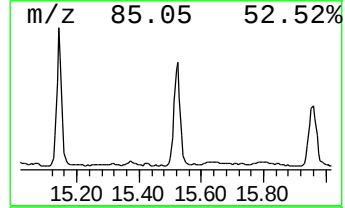
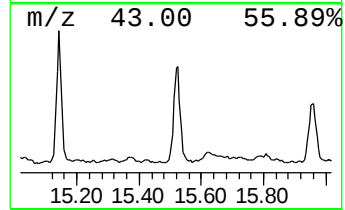
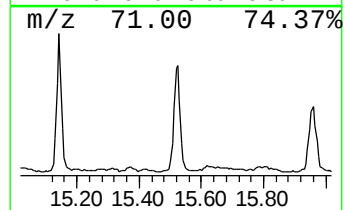
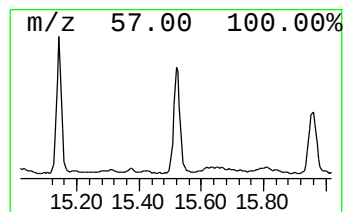
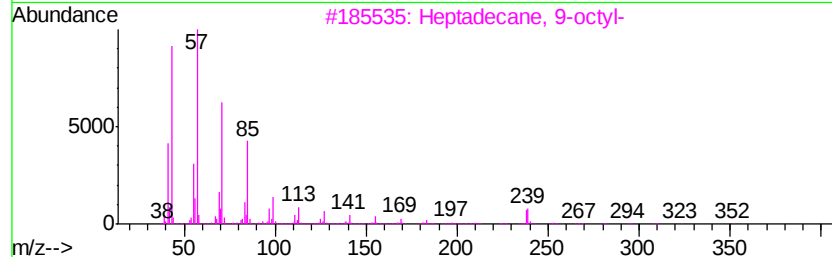
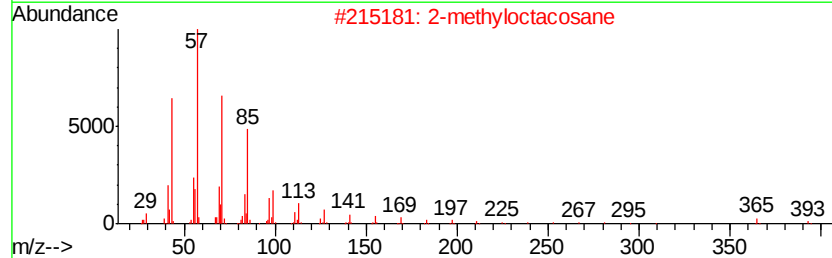
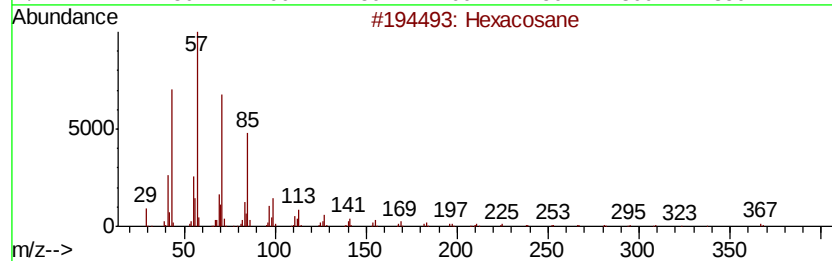
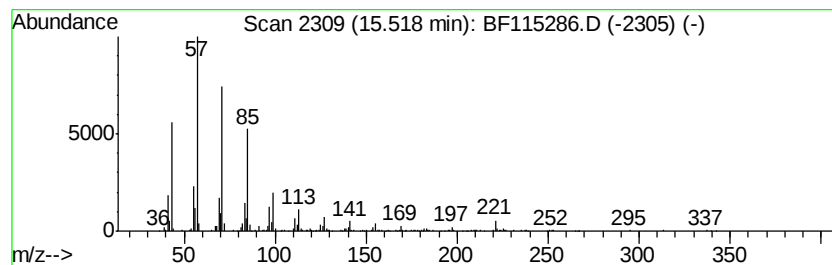
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 2-methyloctacosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.52 | 4.80 ng | 510707 | Perylene-d12     | 15.07 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Hexacosane            | 366 | C26H54  | 000630-01-3  | 93   |
| 2    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 91   |
| 4    |    | triacontane           | 422 | C30H62  | 000638-68-6  | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062819\  
Data File : BF115286.D  
Acq On : 28 Jun 2019 17:29  
Operator : HP/JU  
Sample : K3533-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

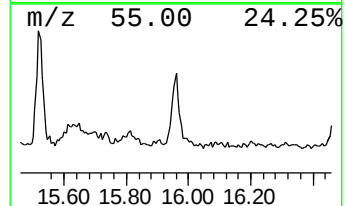
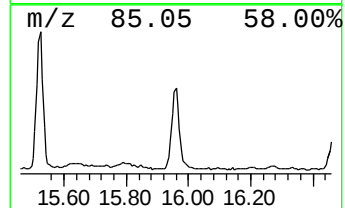
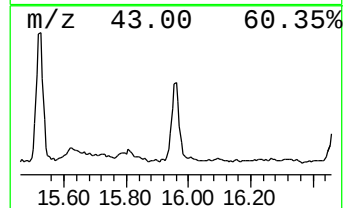
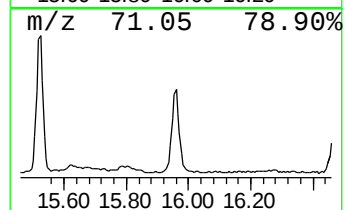
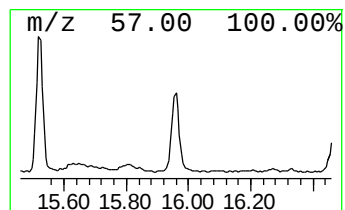
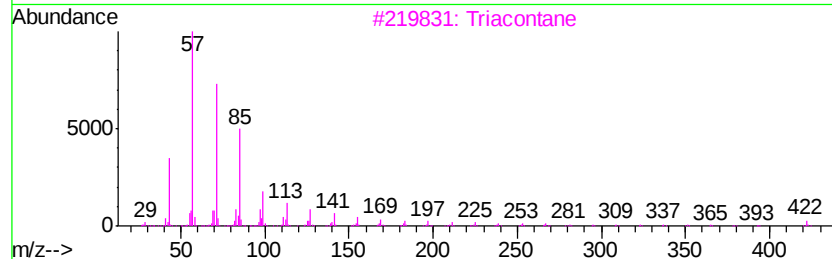
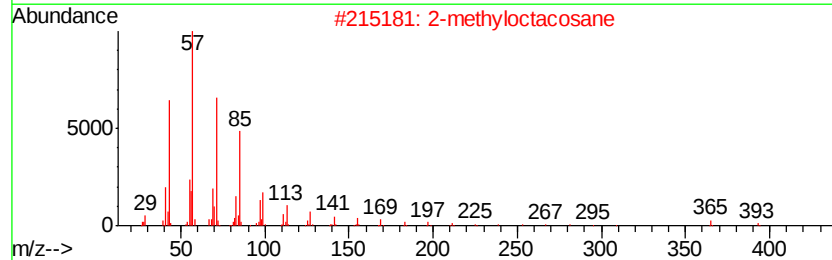
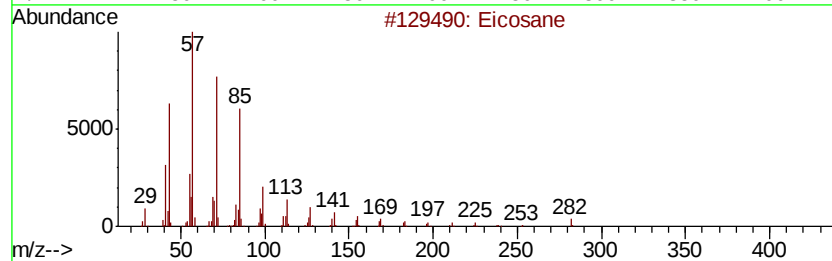
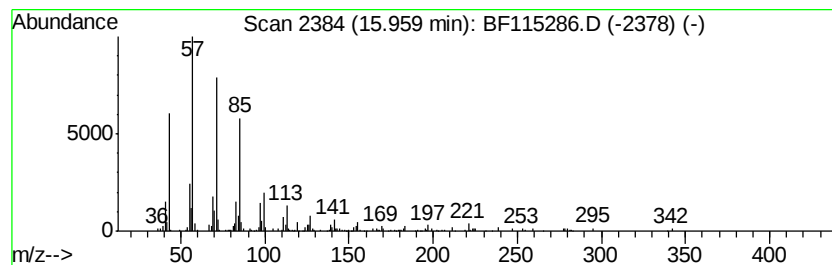
Instrument :  
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ClientSampleId :  
FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.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 11 Eicosane Concentration Rank 7

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 15.96   | 3.60 ng            | 382819       | Perylene-d12     | 15.07     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane           | 282 C20H42   | 000112-95-8      | 93        |
| 2       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 91        |
| 3       | Triacontane        | 422 C30H62   | 000638-68-6      | 91        |
| 4       | Heneicosane        | 296 C21H44   | 000629-94-7      | 91        |
| 5       | Octacosane         | 394 C28H58   | 000630-02-4      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062819\  
 Data File : BF115286.D  
 Acq On : 28 Jun 2019 17:29  
 Operator : HP/JU  
 Sample : K3533-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-013-ABCD

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062119.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 |
| Cyclotrisiloxane,... | 4.43  | 2.1 ng  |       | 146642   | 1                     | 6.60  | 1363420 | 20.0 |
| unknown6.37          | 6.37  | 73.8 ng |       | 5030250  | 1                     | 6.60  | 1363420 | 20.0 |
| n-Hexadecanoic acid  | 11.64 | 2.9 ng  |       | 327207   | 4                     | 11.10 | 2231330 | 20.0 |
| Octadecanoic acid    | 12.42 | 2.5 ng  |       | 271820   | 5                     | 13.71 | 2195380 | 20.0 |
| Trifluoroacetoxy ... | 13.61 | 8.2 ng  |       | 904800   | 5                     | 13.71 | 2195380 | 20.0 |
| Hexacosane           | 14.51 | 2.8 ng  |       | 292803   | 6                     | 15.07 | 2126690 | 20.0 |
| Octadecane           | 14.81 | 4.1 ng  |       | 435203   | 6                     | 15.07 | 2126690 | 20.0 |
| Hexadecane           | 15.14 | 4.5 ng  |       | 484039   | 6                     | 15.07 | 2126690 | 20.0 |
| 2-methyloctacosane   | 15.52 | 4.8 ng  |       | 510707   | 6                     | 15.07 | 2126690 | 20.0 |
| Eicosane             | 15.96 | 3.6 ng  |       | 382819   | 6                     | 15.07 | 2126690 | 20.0 |