

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\  
 Data File : BF119172.D  
 Acq On : 2 Mar 2020 16:54  
 Operator : CG/JU  
 Sample : L1723-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B3-(1.5-2)

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-BF022020.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         | 5.357       | 553           | 556         | 571          | rBV      | 767227         | 1329076       | 30.96%          | 3.370%        |
| 2         | 5.516       | 580           | 583         | 604          | rVB      | 96706          | 236194        | 5.50%           | 0.599%        |
| 3         | 6.381       | 726           | 730         | 755          | rBV      | 2203788        | 2160808       | 50.34%          | 5.478%        |
| 4         | 6.734       | 787           | 790         | 800          | rBV      | 787997         | 664316        | 15.48%          | 1.684%        |
| 5         | 6.892       | 813           | 817         | 832          | rBV      | 2127331        | 2039379       | 47.51%          | 5.171%        |
| 6         | 7.298       | 882           | 886         | 899          | rBV      | 1549598        | 1475285       | 34.37%          | 3.740%        |
| 7         | 8.016       | 1004          | 1008        | 1014         | rBV      | 960093         | 857658        | 19.98%          | 2.174%        |
| 8         | 9.086       | 1186          | 1190        | 1194         | rBV      | 3134461        | 2963180       | 69.03%          | 7.513%        |
| 9         | 9.480       | 1254          | 1257        | 1267         | rBV      | 206149         | 204137        | 4.76%           | 0.518%        |
| 10        | 9.763       | 1301          | 1305        | 1316         | rBV      | 1125025        | 1032148       | 24.05%          | 2.617%        |
| 11        | 9.980       | 1337          | 1342        | 1354         | rBV2     | 28231          | 43987         | 1.02%           | 0.112%        |
| 12        | 10.557      | 1436          | 1440        | 1457         | rBV      | 1760895        | 1840608       | 42.88%          | 4.667%        |
| 13        | 11.245      | 1554          | 1557        | 1565         | rBV      | 1074120        | 1014716       | 23.64%          | 2.573%        |
| 14        | 11.780      | 1639          | 1648        | 1659         | rBV      | 511344         | 704497        | 16.41%          | 1.786%        |
| 15        | 12.463      | 1761          | 1764        | 1767         | rBV      | 73620          | 87427         | 2.04%           | 0.222%        |
| 16        | 12.568      | 1776          | 1782        | 1793         | rBV      | 771116         | 1027063       | 23.93%          | 2.604%        |
| 17        | 12.692      | 1800          | 1803        | 1810         | rVB      | 55508          | 73506         | 1.71%           | 0.186%        |
| 18        | 12.827      | 1822          | 1826        | 1830         | rBV      | 2858952        | 2892503       | 67.39%          | 7.333%        |
| 19        | 13.404      | 1918          | 1924        | 1926         | rBV2     | 55969          | 72008         | 1.68%           | 0.183%        |
| 20        | 13.727      | 1975          | 1979        | 1990         | rVB2     | 262075         | 408732        | 9.52%           | 1.036%        |
| 21        | 13.886      | 2002          | 2006        | 2013         | rVB      | 940295         | 914706        | 21.31%          | 2.319%        |
| 22        | 14.045      | 2028          | 2033        | 2042         | rVB      | 783419         | 788475        | 18.37%          | 1.999%        |
| 23        | 14.351      | 2080          | 2085        | 2089         | rBV      | 1613816        | 1671180       | 38.93%          | 4.237%        |
| 24        | 14.645      | 2130          | 2135        | 2139         | rBV      | 2382596        | 2768769       | 64.50%          | 7.020%        |
| 25        | 14.715      | 2144          | 2147        | 2152         | rVB      | 67605          | 69229         | 1.61%           | 0.176%        |
| 26        | 14.909      | 2177          | 2180        | 2183         | rBV2     | 52932          | 80130         | 1.87%           | 0.203%        |
| 27        | 14.962      | 2183          | 2189        | 2196         | rVB      | 2509218        | 3364092       | 78.37%          | 8.529%        |
| 28        | 15.180      | 2223          | 2226        | 2228         | rBV      | 51509          | 71533         | 1.67%           | 0.181%        |
| 29        | 15.257      | 2236          | 2239        | 2243         | rBV      | 32226          | 52392         | 1.22%           | 0.133%        |
| 30        | 15.321      | 2243          | 2250        | 2264         | rVB2     | 2562013        | 4292463       | 100.00%         | 10.883%       |
| 31        | 15.727      | 2311          | 2319        | 2327         | rBV      | 1499617        | 2475490       | 57.67%          | 6.276%        |
| 32        | 16.192      | 2391          | 2398        | 2412         | rVB      | 674139         | 1319563       | 30.74%          | 3.346%        |
| 33        | 16.739      | 2485          | 2491        | 2501         | rVB3     | 203730         | 447242        | 10.42%          | 1.134%        |

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ClientSampleId :  
B3-(1.5-2)

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 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-BF022020.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

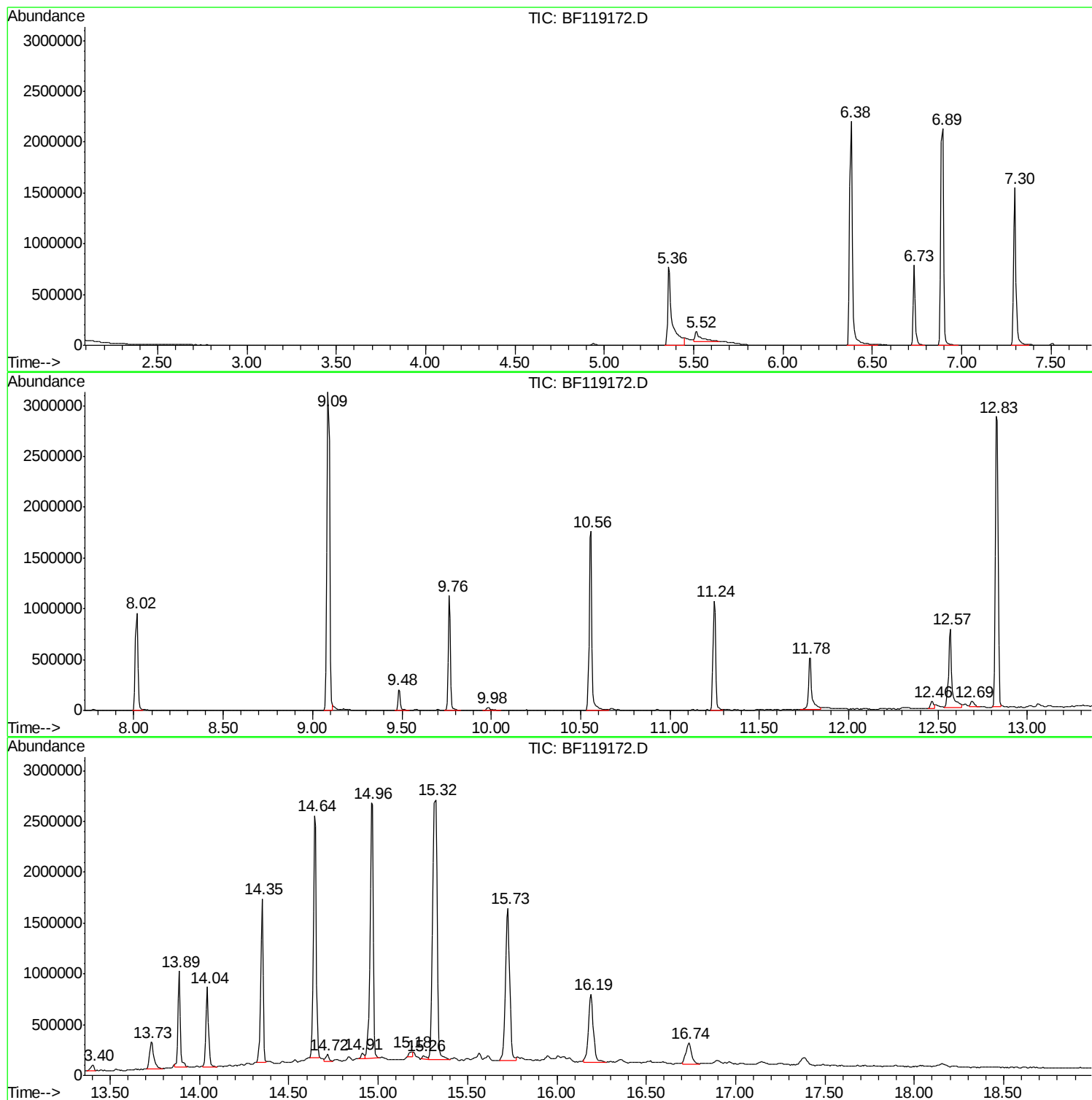
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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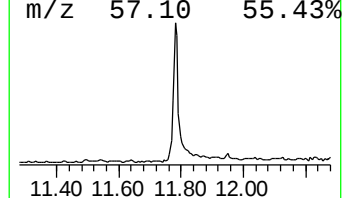
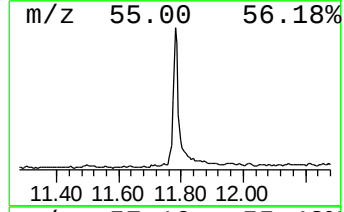
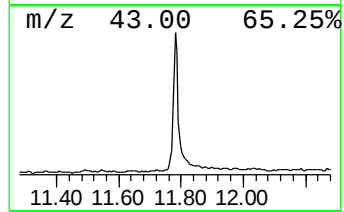
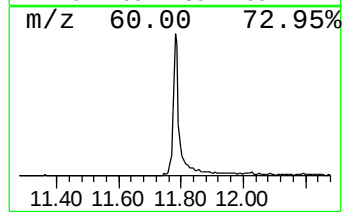
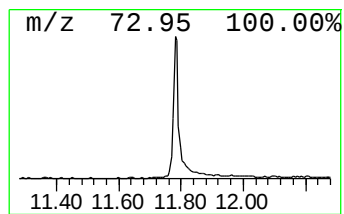
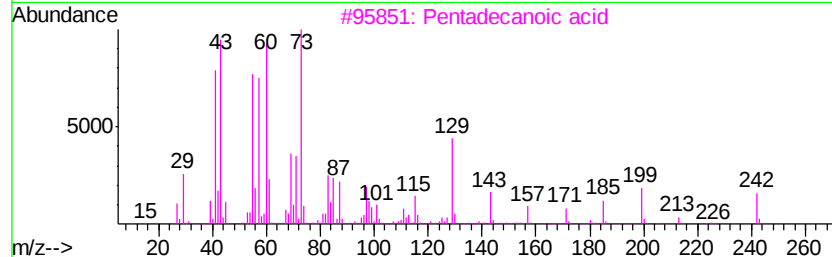
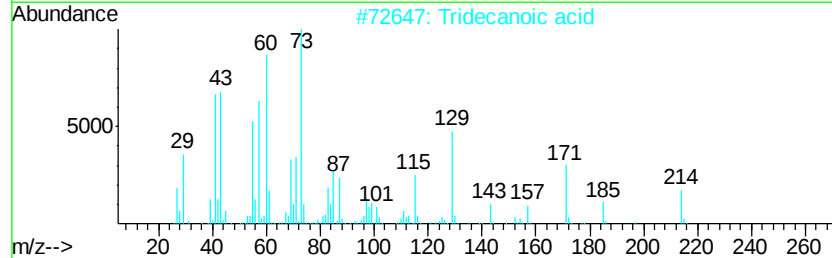
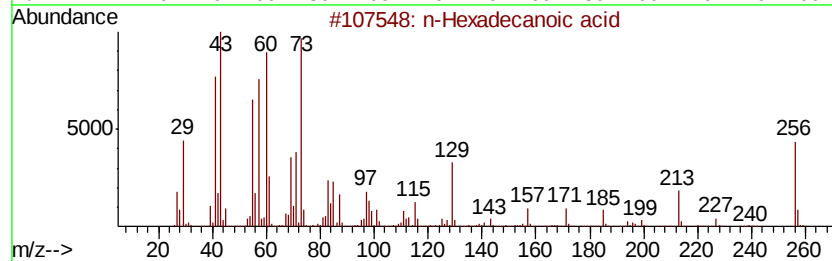
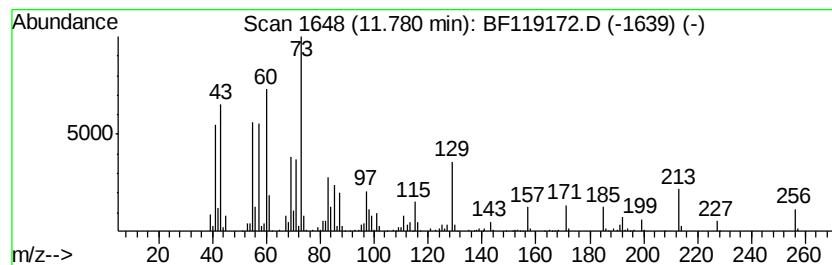
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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 Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.78     | 13.89 ng            | 704497 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 83   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 76   |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 53   |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 35   |



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Misc :  
ALS Vial : 5 Sample Multiplier: 1

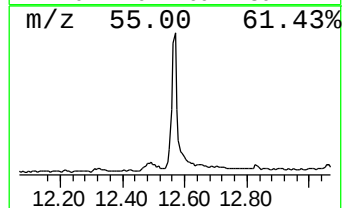
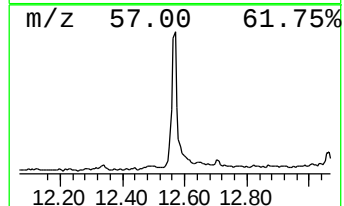
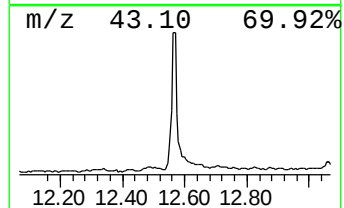
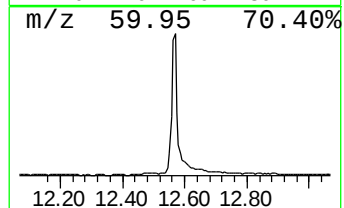
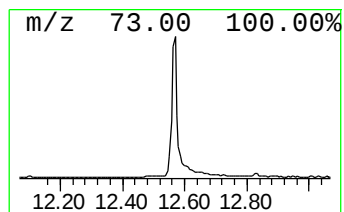
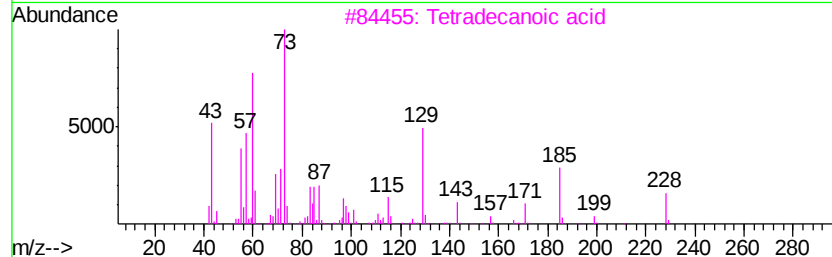
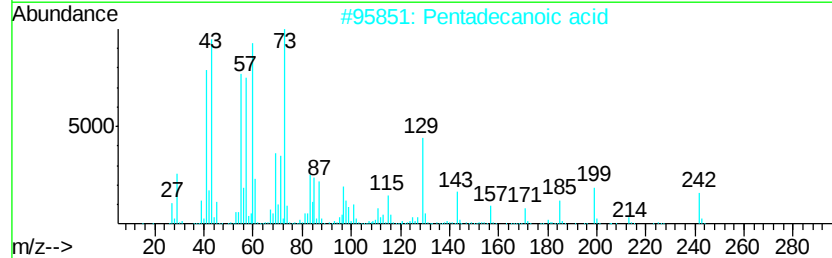
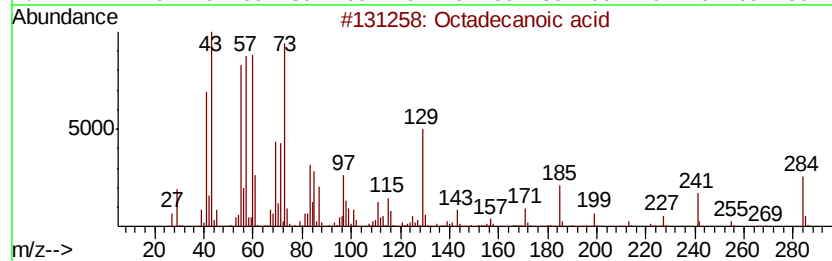
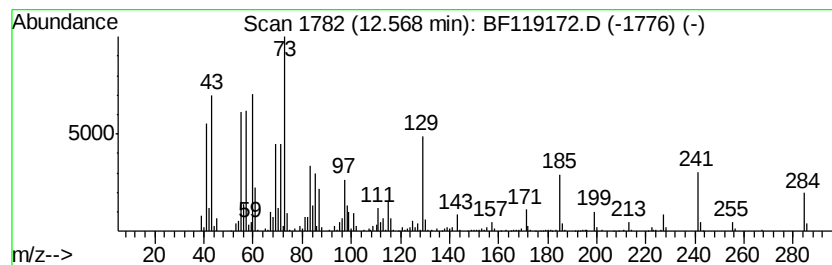
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 4 Octadecanoic acid Concentration Rank 3

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.           |
|---------|---------------------|--------------|------------------|----------------|
| 12.57   | 22.46 ng            | 1027060      | Chrysene-d12     | 13.89          |
| 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 86 |
| 3       | Tetradecanoic acid  | 228          | C14H28O2         | 000544-63-8 58 |
| 4       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 53 |
| 5       | Tridecanoic acid    | 214          | C13H26O2         | 000638-53-9 52 |



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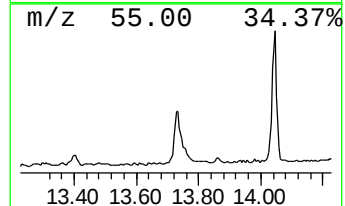
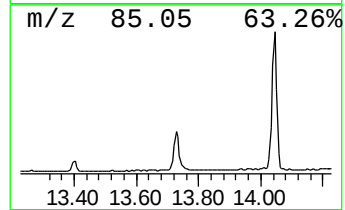
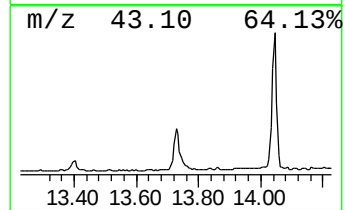
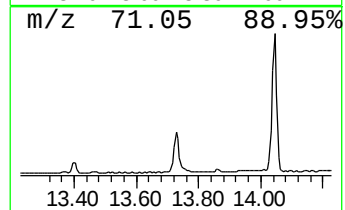
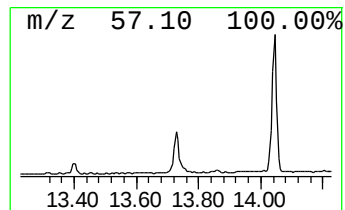
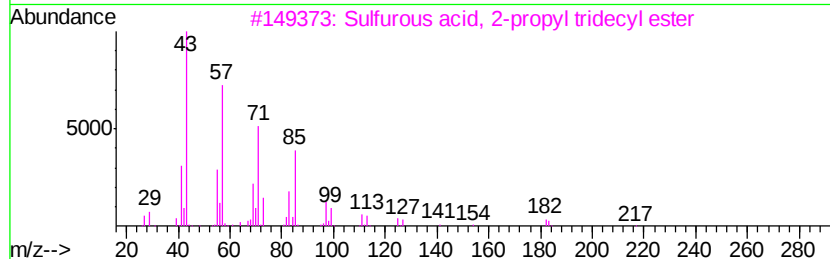
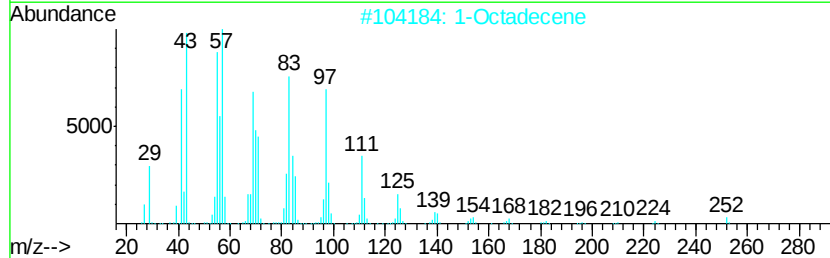
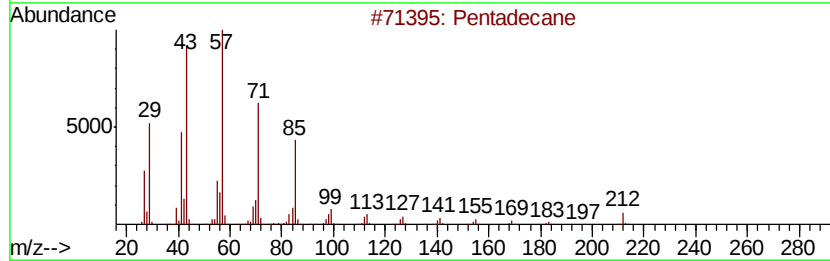
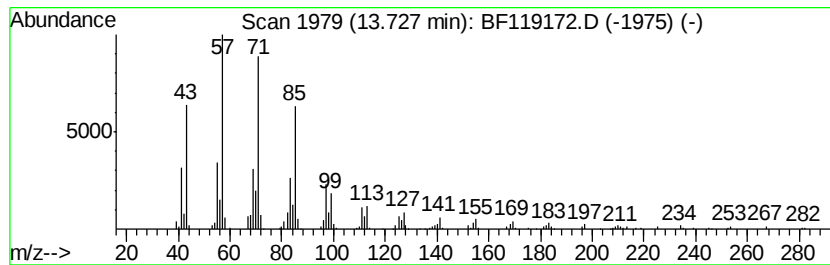
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TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 5 Pentadecane Concentration Rank 9

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------------|--------|------------------|--------------|------|
| 13.73     | 8.94 ng                              | 408732 | Chrysene-d12     | 13.89        |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#         | Qual |
| 1         | Pentadecane                          | 212    | C15H32           | 000629-62-9  | 94   |
| 2         | 1-Octadecene                         | 252    | C18H36           | 000112-88-9  | 94   |
| 3         | Sulfurous acid, 2-propyl tridecyl... | 306    | C16H34O3S        | 1000309-12-4 | 91   |
| 4         | Tetratetracontane                    | 619    | C44H90           | 007098-22-8  | 90   |
| 5         | Tritetracontane                      | 605    | C43H88           | 007098-21-7  | 87   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
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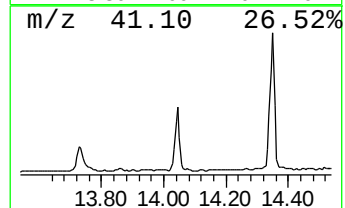
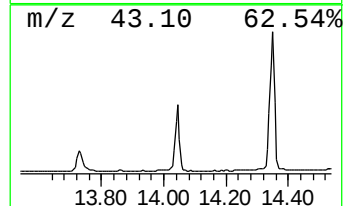
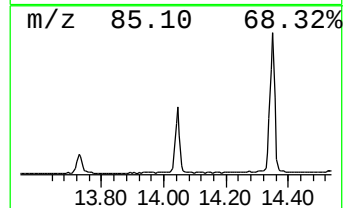
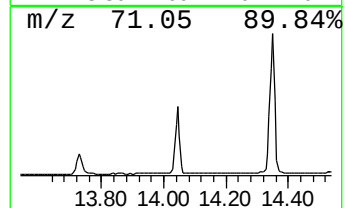
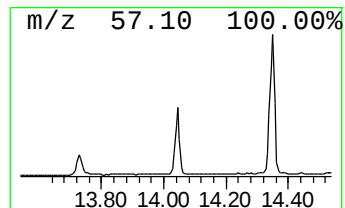
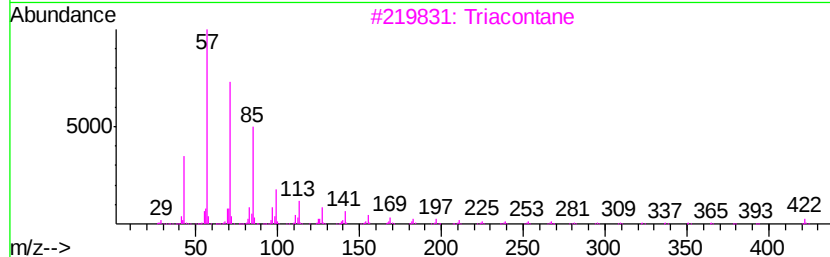
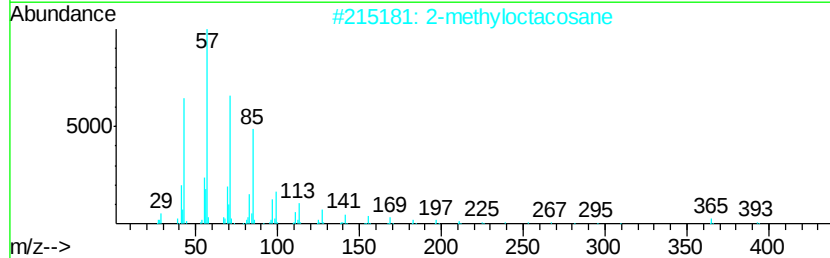
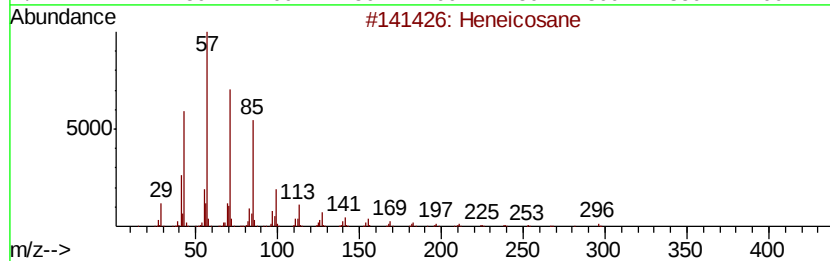
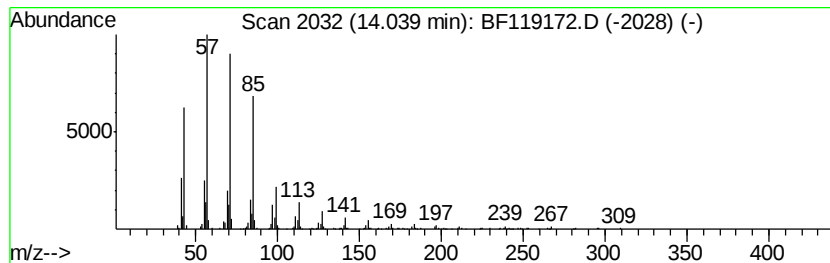
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heneicosane Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.04 | 17.24 ng | 788475 | Chrysene-d12     | 13.89 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Heneicosane        |              | 296 | C21H44  | 000629-94-7  | 91   |
| 2       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 3       | Triacontane        |              | 422 | C30H62  | 000638-68-6  | 91   |
| 4       | Eicosane           |              | 282 | C20H42  | 000112-95-8  | 91   |
| 5       | Hexacosane         |              | 366 | C26H54  | 000630-01-3  | 90   |



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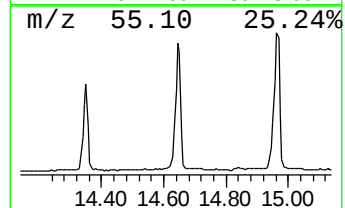
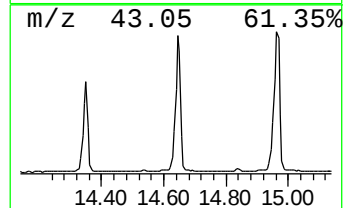
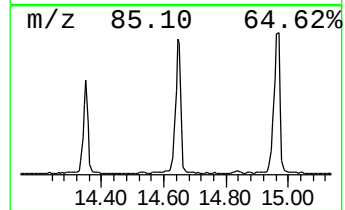
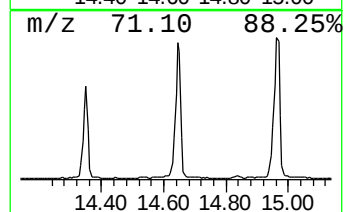
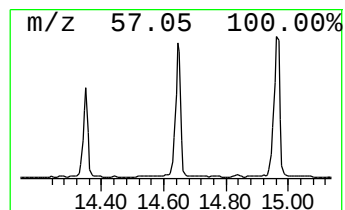
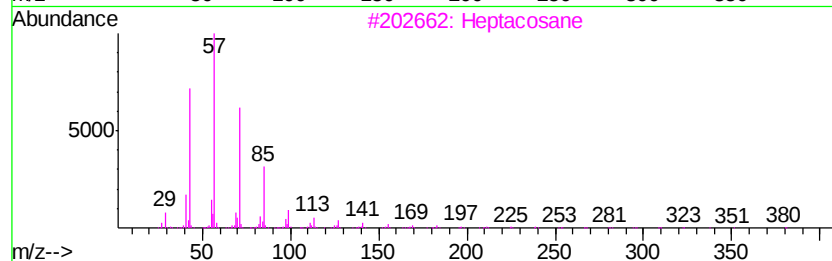
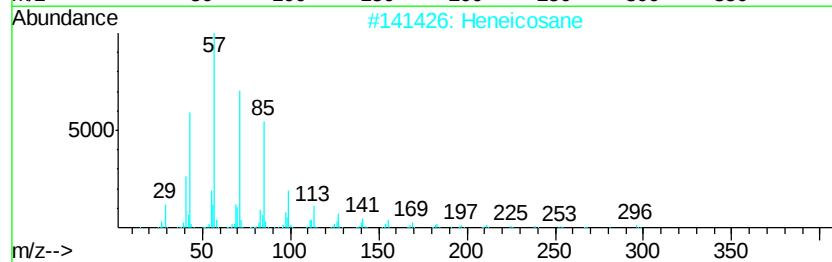
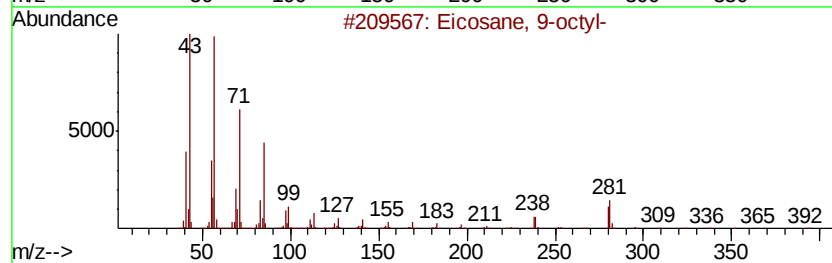
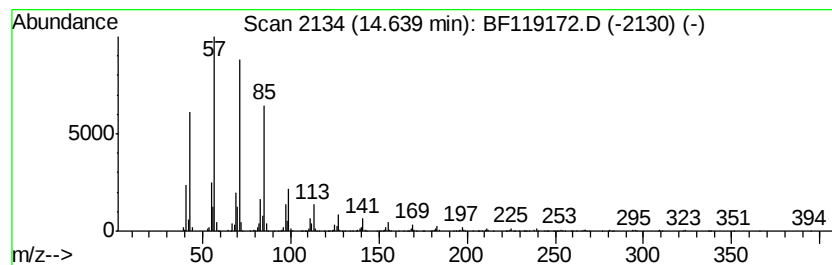
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Eicosane, 9-octyl- Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.64 | 12.90 ng | 2768770 | Perylene-d12     | 15.31 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Eicosane, 9-octyl- | 394 | C28H58  | 013475-77-9  | 93   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 3    |    | Heptacosane        | 380 | C27H56  | 000593-49-7  | 91   |
| 4    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 5    |    | triacontane        | 422 | C30H62  | 000638-68-6  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\  
 Data File : BF119172.D  
 Acq On : 2 Mar 2020 16:54  
 Operator : CG/JU  
 Sample : L1723-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B3-(1.5-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

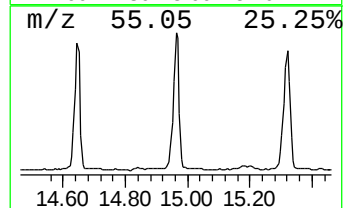
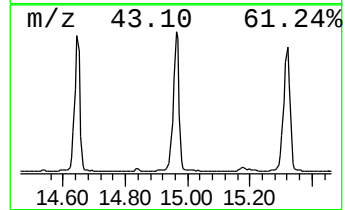
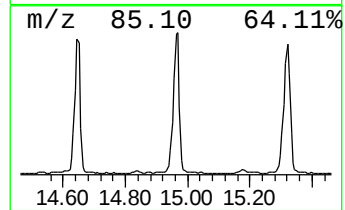
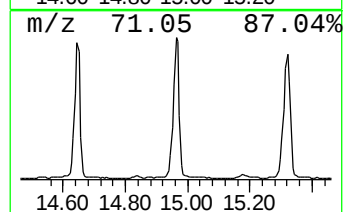
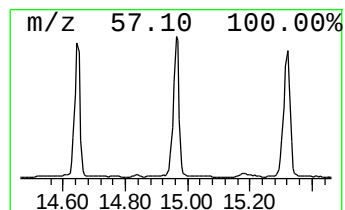
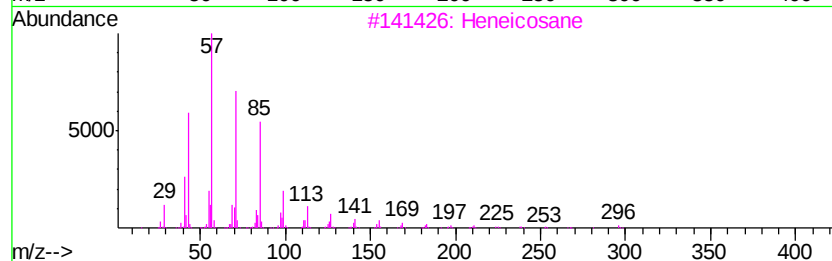
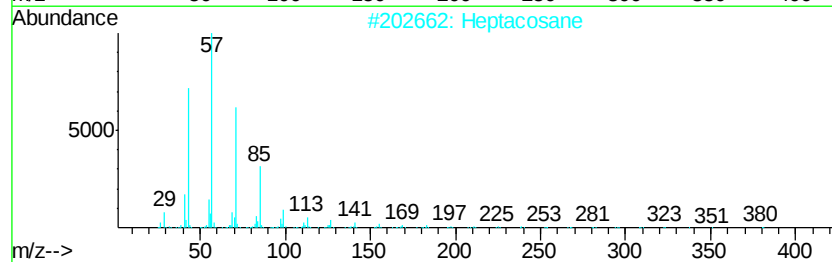
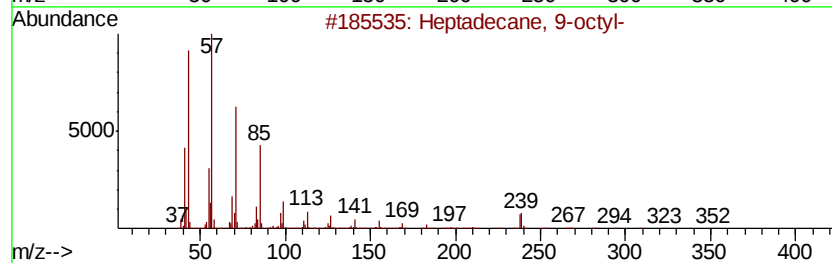
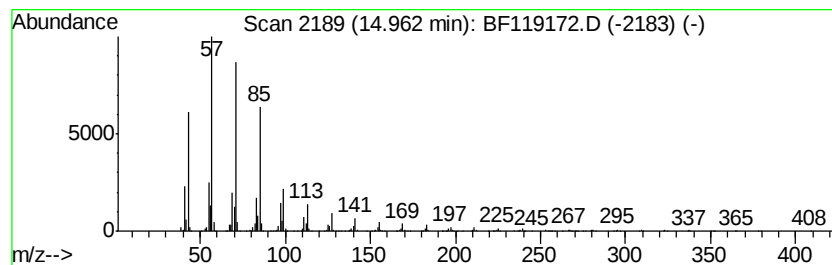
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 9 Heptadecane, 9-octyl- Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.96 | 15.67 ng | 3364090 | Perylene-d12     | 15.31 |

| Hit# of | 5 | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|---------|---|-----------------------|-----|---------|--------------|------|
| 1       |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 93   |
| 2       |   | Heptacosane           | 380 | C27H56  | 000593-49-7  | 91   |
| 3       |   | Heneicosane           | 296 | C21H44  | 000629-94-7  | 91   |
| 4       |   | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 5       |   | Hexacosane            | 366 | C26H54  | 000630-01-3  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030220\  
Data File : BF119172.D  
Acq On : 2 Mar 2020 16:54  
Operator : CG/JU  
Sample : L1723-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
B3-(1.5-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

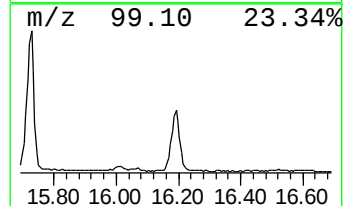
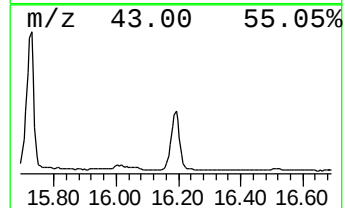
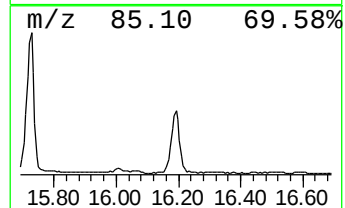
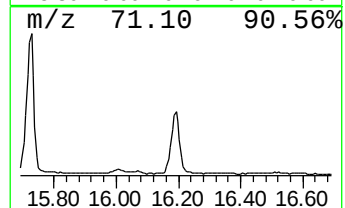
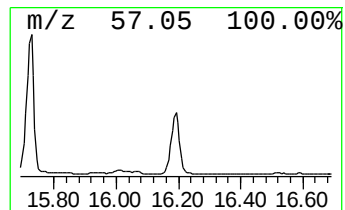
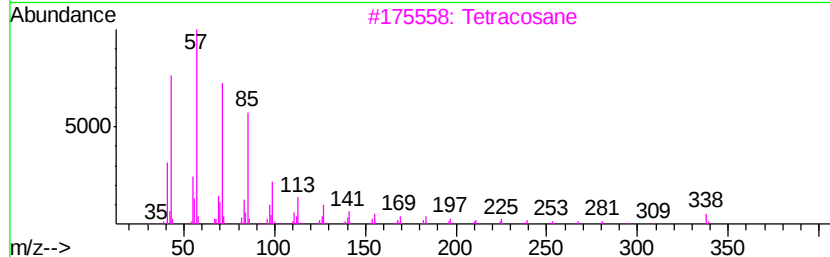
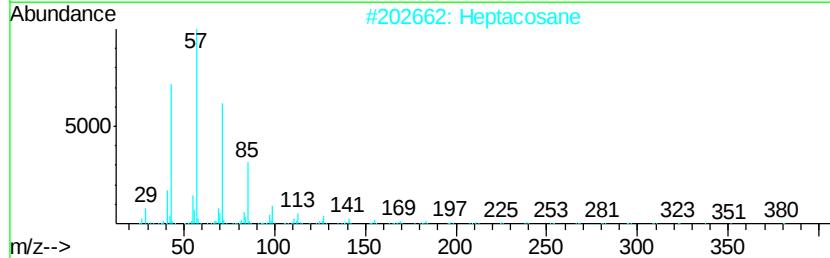
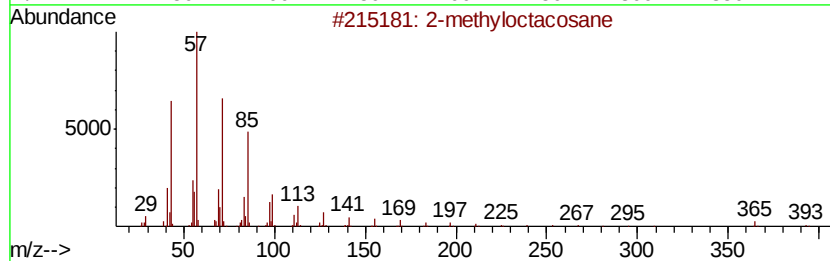
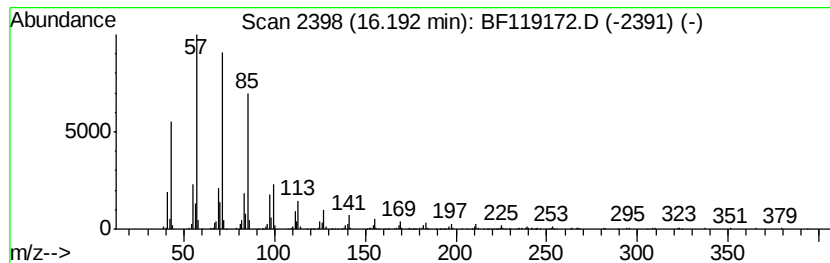
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 2-methyloctacosane Concentration Rank 11

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 16.19 | 6.15 ng | 1319560 | Perylene-d12     | 15.31 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    | Heptacosane           | 380 | C27H56  | 000593-49-7  | 91   |
| 3    |    | Tetracosane           | 338 | C24H50  | 000646-31-1  | 91   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 91   |
| 5    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030220\  
Data File : BF119172.D  
Acq On : 2 Mar 2020 16:54  
Operator : CG/JU  
Sample : L1723-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
B3-(1.5-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022020.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 |
| n-Hexadecanoic acid  | 11.78 | 13.9    | ng    | 704497   | 4                     | 11.24 | 1014720 | 20.0 |
| Octadecanoic acid    | 12.57 | 22.5    | ng    | 1027060  | 5                     | 13.89 | 914706  | 20.0 |
| Pentadecane          | 13.73 | 8.9     | ng    | 408732   | 5                     | 13.89 | 914706  | 20.0 |
| Heneicosane          | 14.04 | 17.2    | ng    | 788475   | 5                     | 13.89 | 914706  | 20.0 |
| Eicosane, 9-octyl-   | 14.64 | 12.9    | ng    | 2768770  | 6                     | 15.31 | 4292460 | 20.0 |
| Heptadecane, 9-oc... | 14.96 | 15.7    | ng    | 3364090  | 6                     | 15.31 | 4292460 | 20.0 |
| 2-methyloctacosane   | 16.19 | 6.2     | ng    | 1319560  | 6                     | 15.31 | 4292460 | 20.0 |