

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
 Data File : BF120317.D  
 Acq On : 15 May 2020 13:12  
 Operator : MA/SJ  
 Sample : L2605-07  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239996

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-BF051420.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         | 4.798       | 458           | 461         | 469          | rBV      | 99993          | 141041        | 1.82%           | 0.180%        |
| 2         | 5.228       | 530           | 534         | 562          | rBV      | 4855414        | 5806140       | 74.94%          | 7.426%        |
| 3         | 6.269       | 707           | 711         | 737          | rBV      | 5075802        | 6130095       | 79.12%          | 7.840%        |
| 4         | 6.610       | 765           | 769         | 780          | rBV      | 1572872        | 2004657       | 25.87%          | 2.564%        |
| 5         | 6.769       | 791           | 796         | 820          | rVB      | 4357628        | 4926984       | 63.59%          | 6.302%        |
| 6         | 7.181       | 861           | 866         | 879          | rBV      | 3454492        | 4017851       | 51.86%          | 5.139%        |
| 7         | 7.898       | 983           | 988         | 1010         | rBV      | 2412486        | 2915605       | 37.63%          | 3.729%        |
| 8         | 8.975       | 1165          | 1171        | 1184         | rBV      | 6551653        | 7690205       | 99.26%          | 9.836%        |
| 9         | 9.375       | 1234          | 1239        | 1246         | rBV      | 1137531        | 1022304       | 13.19%          | 1.308%        |
| 10        | 9.651       | 1279          | 1286        | 1297         | rBV      | 3028763        | 3478622       | 44.90%          | 4.449%        |
| 11        | 10.439      | 1415          | 1420        | 1429         | rBV      | 4579941        | 5055587       | 65.25%          | 6.466%        |
| 12        | 10.504      | 1429          | 1431        | 1438         | rVV      | 80046          | 148908        | 1.92%           | 0.190%        |
| 13        | 10.563      | 1438          | 1441        | 1450         | rVB5     | 56648          | 89881         | 1.16%           | 0.115%        |
| 14        | 11.133      | 1528          | 1538        | 1540         | rBV      | 3714740        | 3670431       | 47.37%          | 4.695%        |
| 15        | 11.151      | 1540          | 1541        | 1546         | rVV      | 847901         | 810937        | 10.47%          | 1.037%        |
| 16        | 11.204      | 1548          | 1550        | 1555         | rVB      | 114808         | 133404        | 1.72%           | 0.171%        |
| 17        | 11.369      | 1573          | 1578        | 1586         | rBV3     | 58682          | 115231        | 1.49%           | 0.147%        |
| 18        | 11.633      | 1620          | 1623        | 1625         | rBV      | 184280         | 173924        | 2.24%           | 0.222%        |
| 19        | 11.680      | 1625          | 1631        | 1638         | rVV2     | 972962         | 1437524       | 18.55%          | 1.839%        |
| 20        | 11.739      | 1638          | 1641        | 1644         | rVV      | 263865         | 336881        | 4.35%           | 0.431%        |
| 21        | 11.769      | 1644          | 1646        | 1652         | rVB      | 150523         | 158412        | 2.04%           | 0.203%        |
| 22        | 11.927      | 1670          | 1673        | 1676         | rBV      | 96638          | 92587         | 1.19%           | 0.118%        |
| 23        | 11.957      | 1676          | 1678        | 1684         | rVB      | 102092         | 112742        | 1.46%           | 0.144%        |
| 24        | 12.180      | 1713          | 1716        | 1719         | rBV      | 143184         | 149956        | 1.94%           | 0.192%        |
| 25        | 12.269      | 1728          | 1731        | 1735         | rBV2     | 111485         | 128683        | 1.66%           | 0.165%        |
| 26        | 12.339      | 1739          | 1743        | 1749         | rBV      | 1135567        | 1107388       | 14.29%          | 1.416%        |
| 27        | 12.463      | 1761          | 1764        | 1773         | rBV3     | 375836         | 605050        | 7.81%           | 0.774%        |
| 28        | 12.569      | 1776          | 1782        | 1786         | rVV      | 1072877        | 1203303       | 15.53%          | 1.539%        |
| 29        | 12.627      | 1790          | 1792        | 1796         | rVB2     | 99430          | 103272        | 1.33%           | 0.132%        |
| 30        | 12.721      | 1803          | 1808        | 1816         | rVB      | 7093755        | 7747925       | 100.00%         | 9.910%        |
| 31        | 12.792      | 1816          | 1820        | 1825         | rVB2     | 92037          | 129881        | 1.68%           | 0.166%        |
| 32        | 12.874      | 1831          | 1834        | 1836         | rBV3     | 80070          | 98626         | 1.27%           | 0.126%        |
| 33        | 12.898      | 1836          | 1838        | 1841         | rVB2     | 114520         | 107256        | 1.38%           | 0.137%        |
| 34        | 12.957      | 1842          | 1848        | 1852         | rBV3     | 128517         | 204987        | 2.65%           | 0.262%        |

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Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

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-BF051420.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.004 | 1852 | 1856 | 1864 | rVB  | 158335  | 197050  | 2.54%  | 0.252% |
| 36 | 13.092 | 1867 | 1871 | 1874 | rBV  | 124574  | 121223  | 1.56%  | 0.155% |
| 37 | 13.121 | 1874 | 1876 | 1880 | rVB  | 87655   | 88913   | 1.15%  | 0.114% |
| 38 | 13.298 | 1903 | 1906 | 1909 | rVB  | 130410  | 105413  | 1.36%  | 0.135% |
| 39 | 13.410 | 1922 | 1925 | 1932 | rVB  | 131594  | 158086  | 2.04%  | 0.202% |
| 40 | 13.516 | 1938 | 1943 | 1945 | rBV  | 108555  | 149961  | 1.94%  | 0.192% |
| 41 | 13.621 | 1958 | 1961 | 1970 | rVB3 | 1086503 | 1448731 | 18.70% | 1.853% |
| 42 | 13.768 | 1981 | 1986 | 1989 | rBV2 | 2705073 | 3226241 | 41.64% | 4.126% |
| 43 | 13.792 | 1989 | 1990 | 1998 | rVB  | 495696  | 419269  | 5.41%  | 0.536% |
| 44 | 13.945 | 2012 | 2016 | 2021 | rBV  | 457043  | 439147  | 5.67%  | 0.562% |
| 45 | 14.151 | 2047 | 2051 | 2055 | rBV  | 104197  | 140613  | 1.81%  | 0.180% |
| 46 | 14.251 | 2064 | 2068 | 2071 | rBV  | 781695  | 809160  | 10.44% | 1.035% |
| 47 | 14.545 | 2112 | 2118 | 2126 | rBV  | 872396  | 976224  | 12.60% | 1.249% |
| 48 | 14.768 | 2152 | 2156 | 2165 | rBV  | 318955  | 603408  | 7.79%  | 0.772% |
| 49 | 14.845 | 2165 | 2169 | 2173 | rBV  | 916132  | 964671  | 12.45% | 1.234% |
| 50 | 14.880 | 2173 | 2175 | 2179 | rVB3 | 90802   | 86271   | 1.11%  | 0.110% |
| 51 | 15.045 | 2199 | 2203 | 2208 | rBV  | 173514  | 233529  | 3.01%  | 0.299% |
| 52 | 15.098 | 2209 | 2212 | 2217 | rVB  | 241750  | 298714  | 3.86%  | 0.382% |
| 53 | 15.157 | 2217 | 2222 | 2225 | rBV  | 1462087 | 1880245 | 24.27% | 2.405% |
| 54 | 15.186 | 2225 | 2227 | 2237 | rVB  | 713326  | 834024  | 10.76% | 1.067% |
| 55 | 15.421 | 2251 | 2267 | 2274 | rBV  | 155888  | 777895  | 10.04% | 0.995% |
| 56 | 15.574 | 2288 | 2293 | 2298 | rVB  | 621372  | 830749  | 10.72% | 1.063% |
| 57 | 15.627 | 2299 | 2302 | 2313 | rVB9 | 114276  | 240698  | 3.11%  | 0.308% |
| 58 | 16.021 | 2364 | 2369 | 2375 | rBV  | 262742  | 457312  | 5.90%  | 0.585% |
| 59 | 16.480 | 2442 | 2447 | 2452 | rBV3 | 121252  | 235816  | 3.04%  | 0.302% |
| 60 | 16.545 | 2453 | 2458 | 2465 | rVB  | 119675  | 222439  | 2.87%  | 0.285% |
| 61 | 16.874 | 2509 | 2514 | 2522 | rVB  | 92732   | 183155  | 2.36%  | 0.234% |

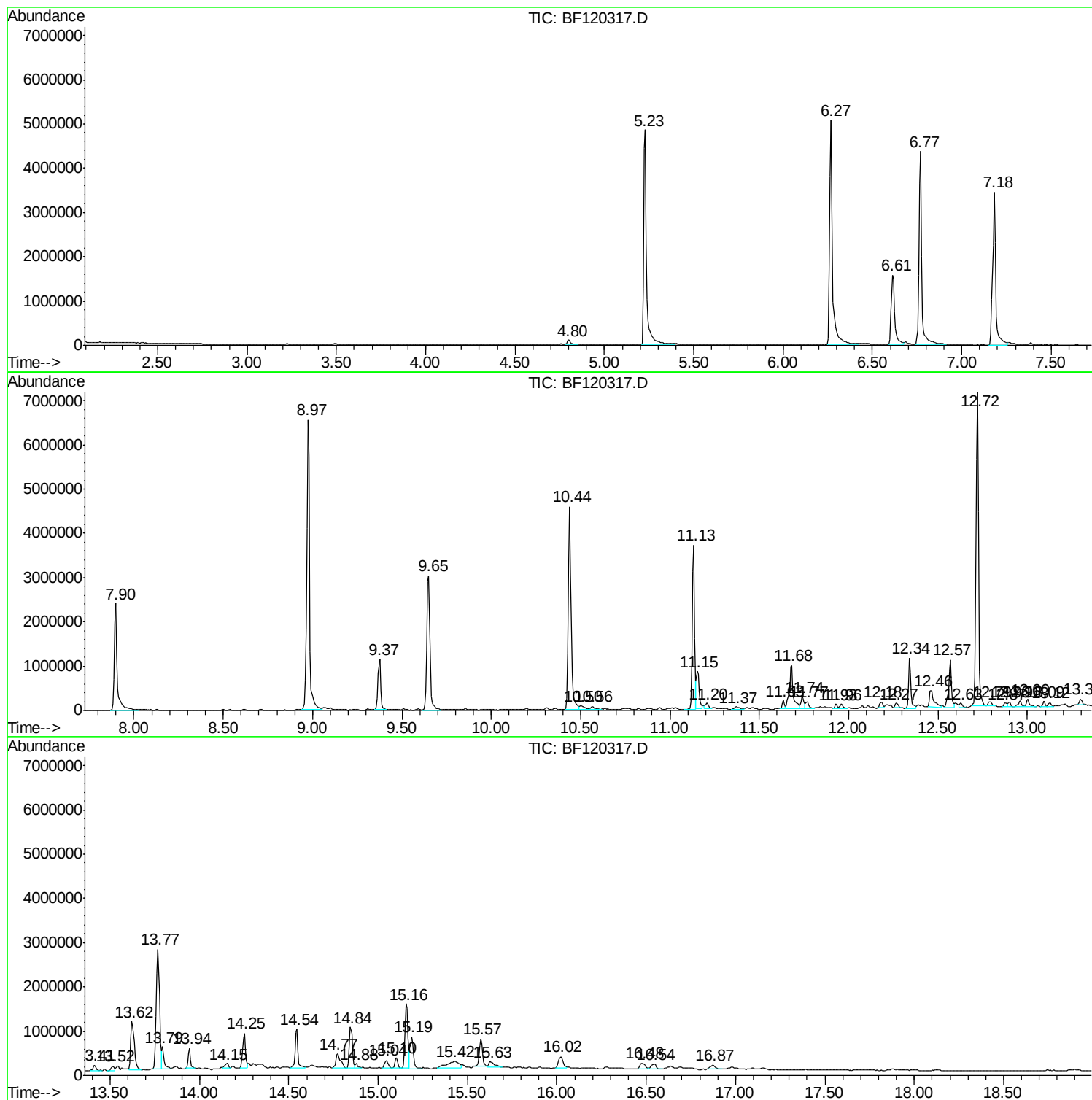
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Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

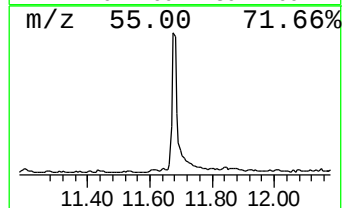
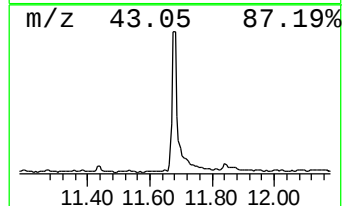
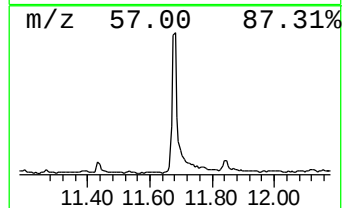
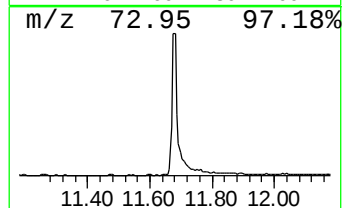
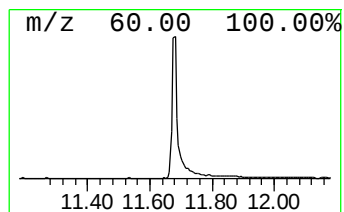
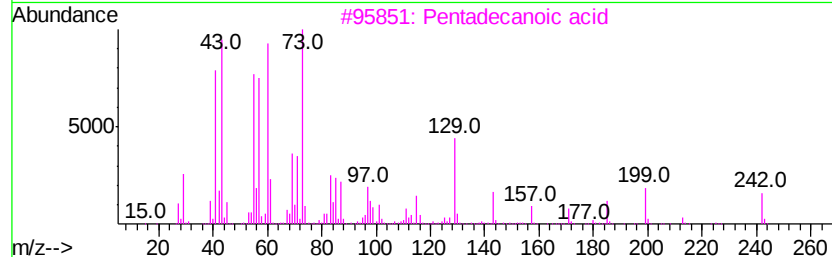
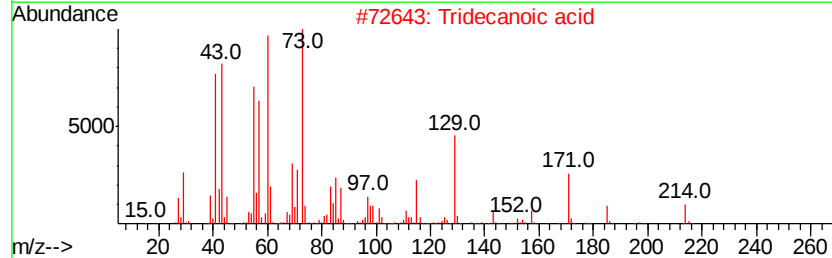
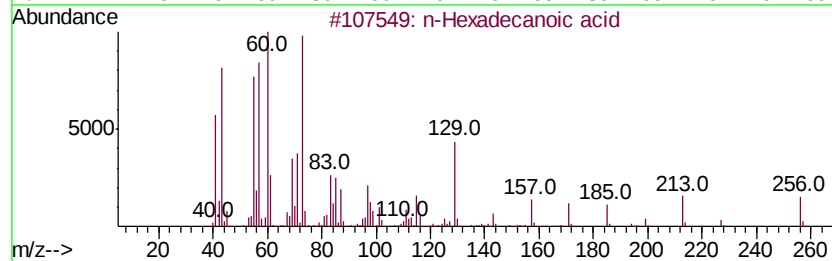
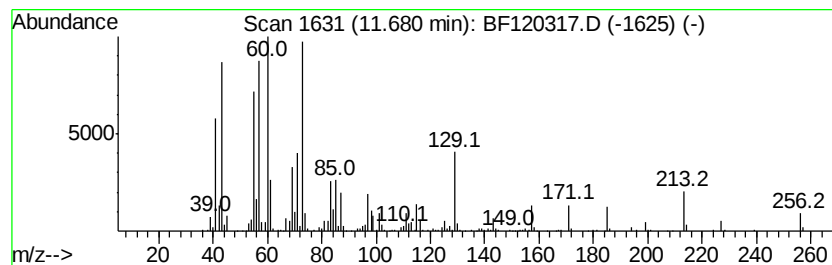
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 11.68 | 7.83 ng | 1437520 | Phenanthrene-d10 | 11.13 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 90   |
| 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 | 68   |



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ALS Vial : 5 Sample Multiplier: 1

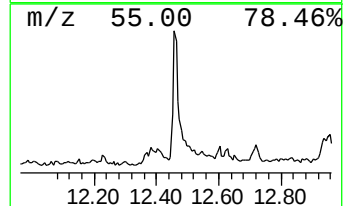
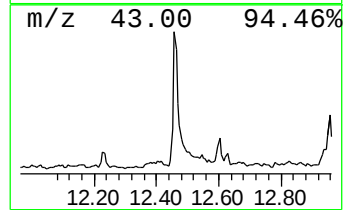
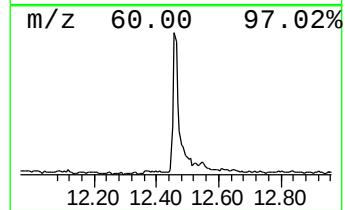
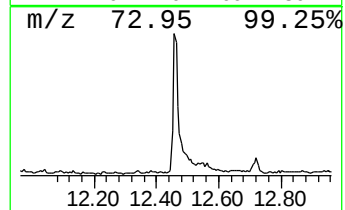
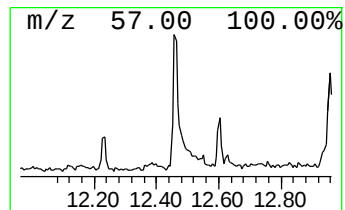
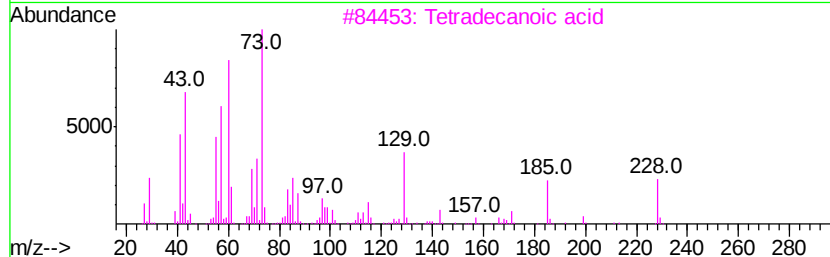
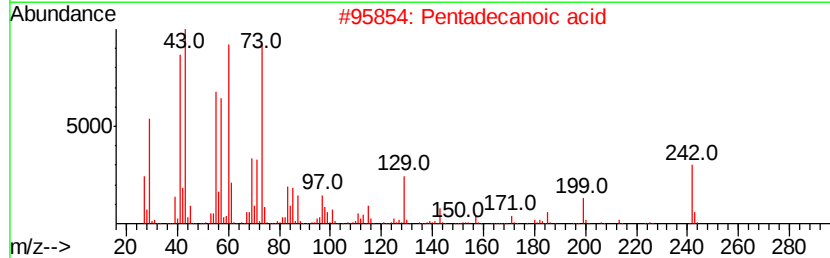
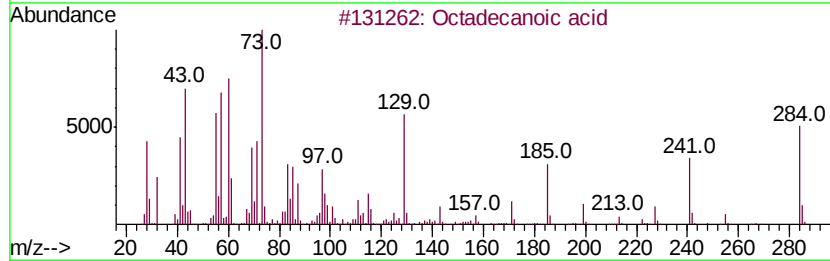
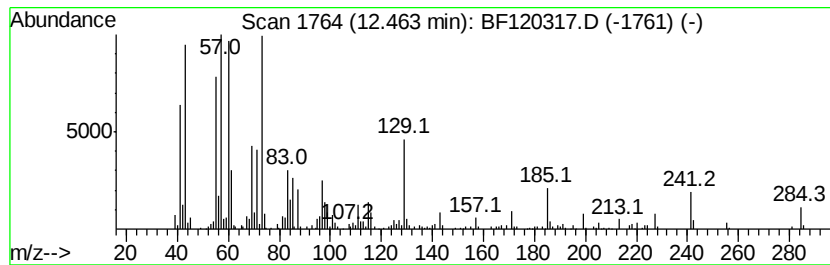
Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.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 3 Octadecanoic acid Concentration Rank 10

| R.T.    | EstConc                            | Area         | Relative to ISTD | R.T.     |             |      |
|---------|------------------------------------|--------------|------------------|----------|-------------|------|
| 12.46   | 3.75 ng                            | 605050       | Chrysene-d12     | 13.77    |             |      |
| 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 | 93   |
| 3       | Tetradecanoic acid                 |              | 228              | C14H28O2 | 000544-63-8 | 83   |
| 4       | n-Hexadecanoic acid                |              | 256              | C16H32O2 | 000057-10-3 | 83   |
| 5       | Octadecanoic acid, 2-(2-hydroxy... |              | 372              | C22H44O4 | 000106-11-6 | 83   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

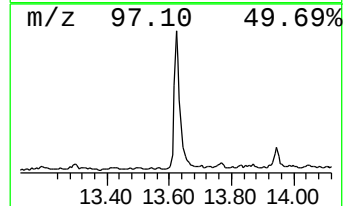
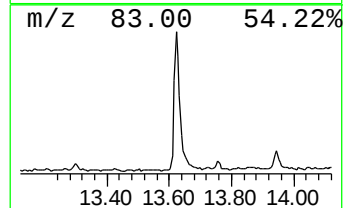
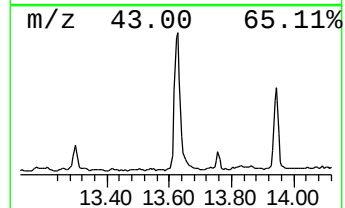
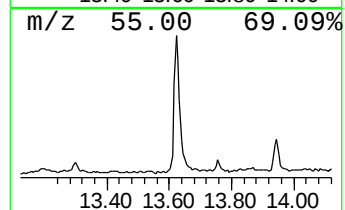
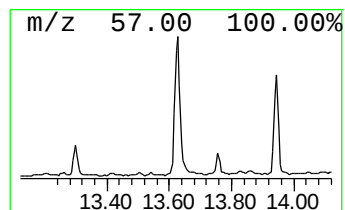
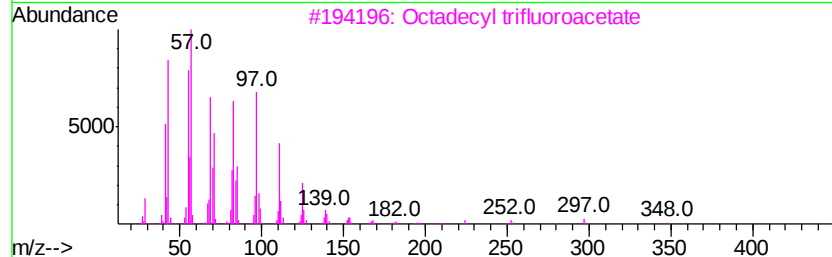
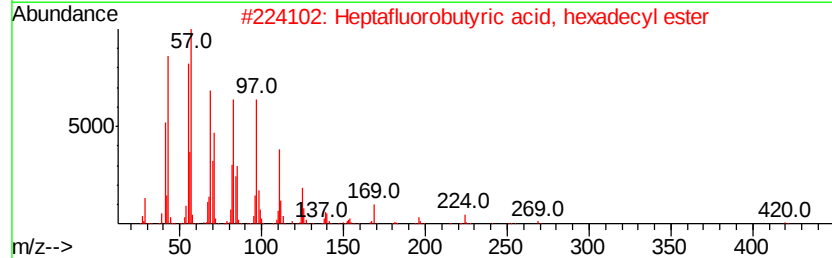
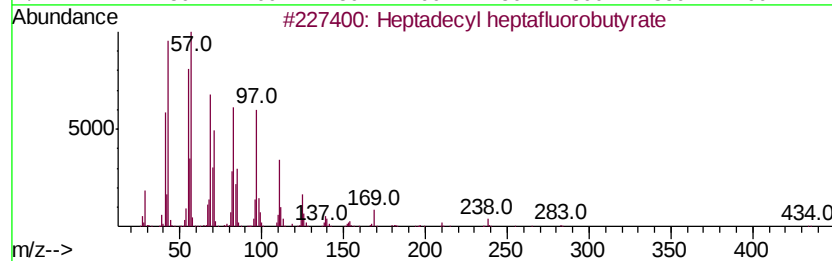
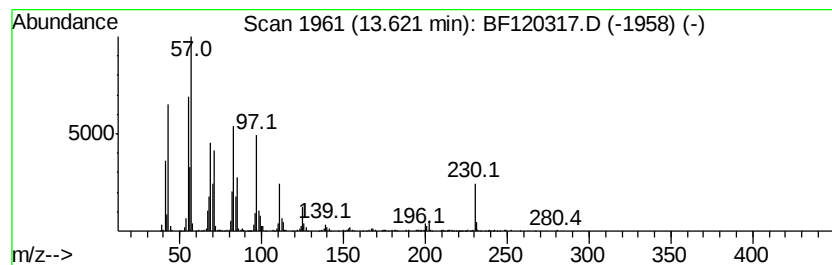
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Heptadecyl heptafluorobutyrate Concentration Rank 4

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 13.62 | 8.98 ng | 1448730 | Chrysene-d12     | 13.77 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6  | 93   |
| 2       |   | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5  | 93   |
| 3       |   | Octadecyl trifluoroacetate          | 366 | C20H37F3O2 | 079392-43-1  | 93   |
| 4       |   | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7  | 90   |
| 5       |   | Nonadecyl pentafluoropropionate     | 430 | C22H39F5O2 | 1000351-88-8 | 90   |



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Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

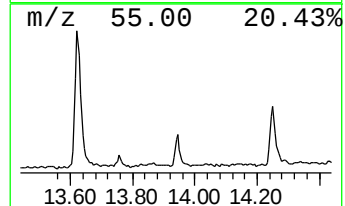
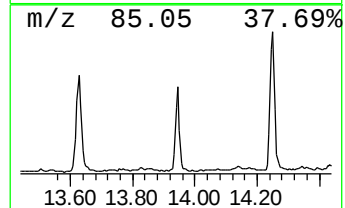
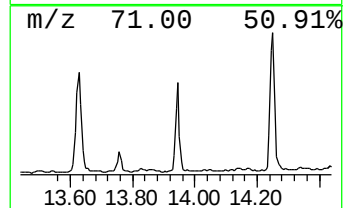
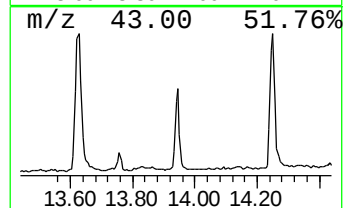
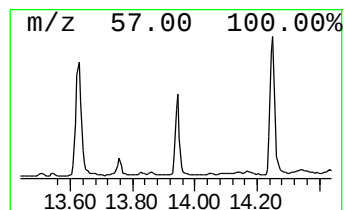
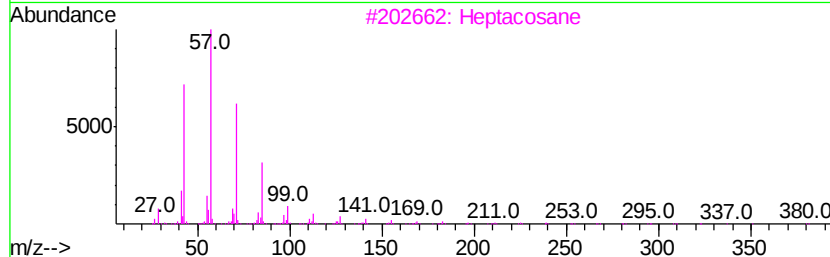
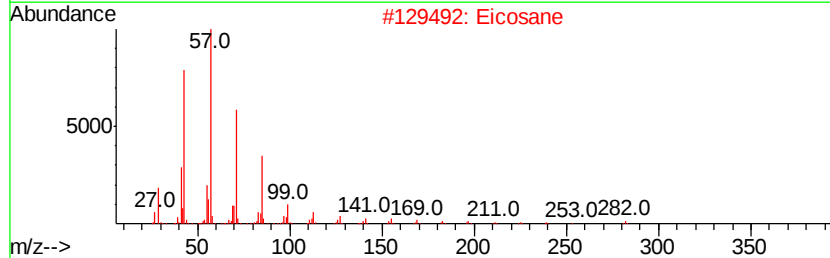
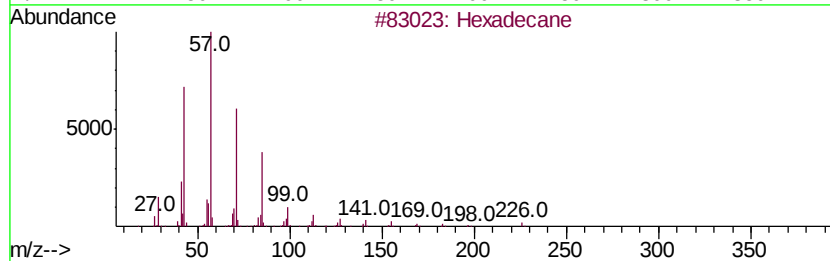
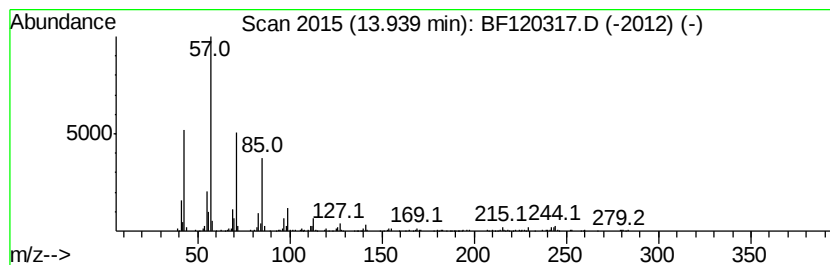
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Hexadecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.94 | 2.72 ng | 439147 | Chrysene-d12     | 13.77 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 97   |
| 2       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 95   |
| 3       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 91   |
| 4       | Hexacosane  |              | 366 | C26H54  | 000630-01-3 | 91   |
| 5       | Pentacosane |              | 352 | C25H52  | 000629-99-2 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

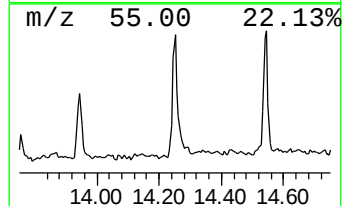
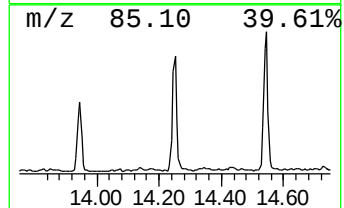
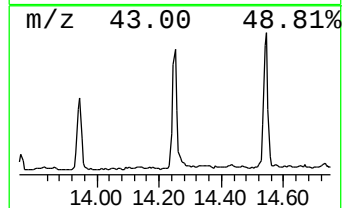
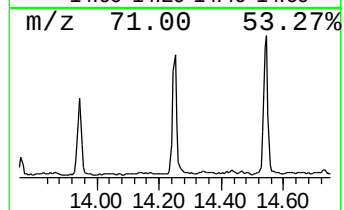
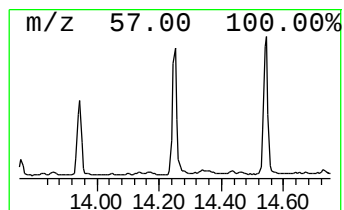
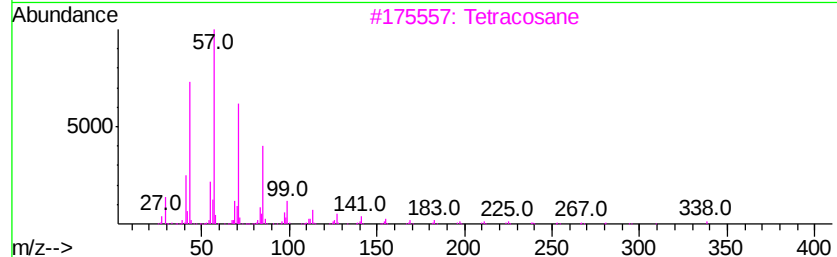
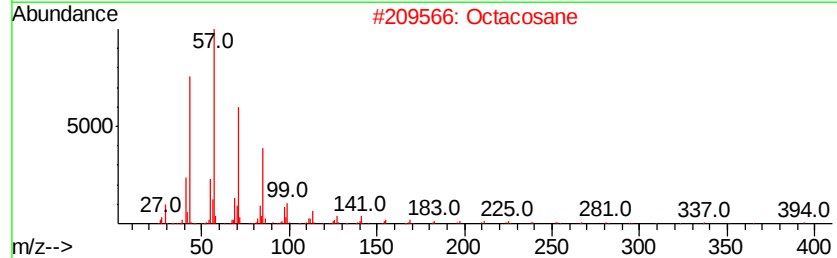
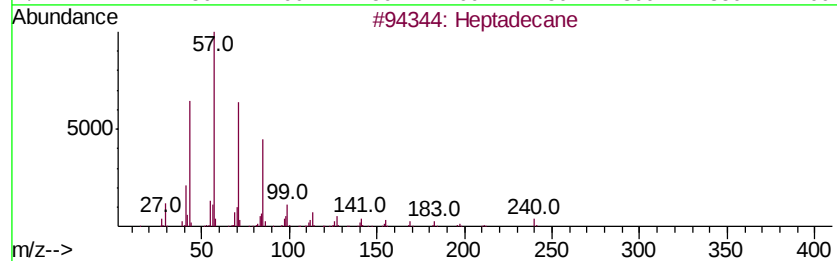
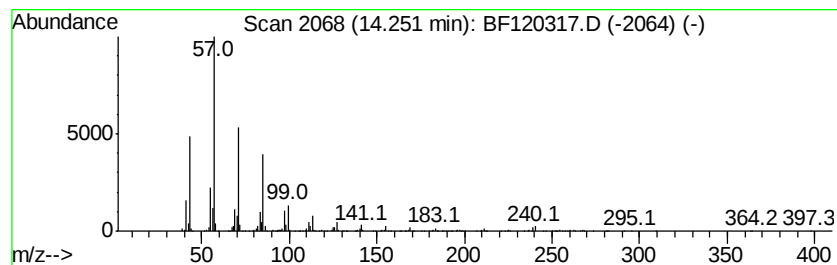
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptadecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.25 | 5.02 ng | 809160 | Chrysene-d12     | 13.77 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane  | 240 | C17H36  | 000629-78-7 | 97   |
| 2    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Pentacosane  | 352 | C25H52  | 000629-99-2 | 91   |
| 5    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

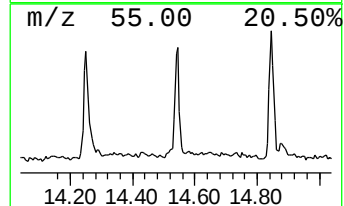
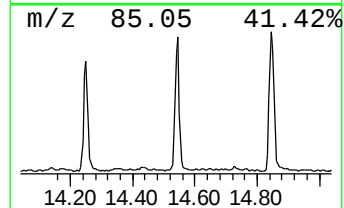
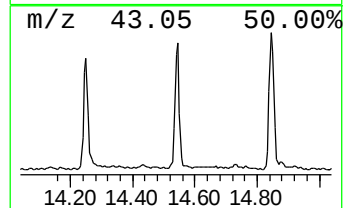
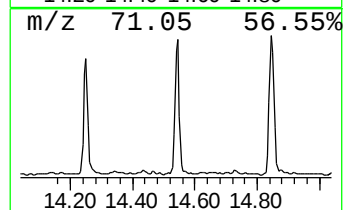
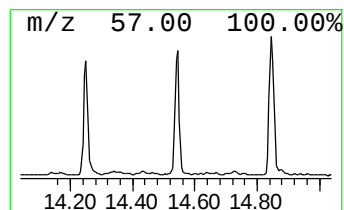
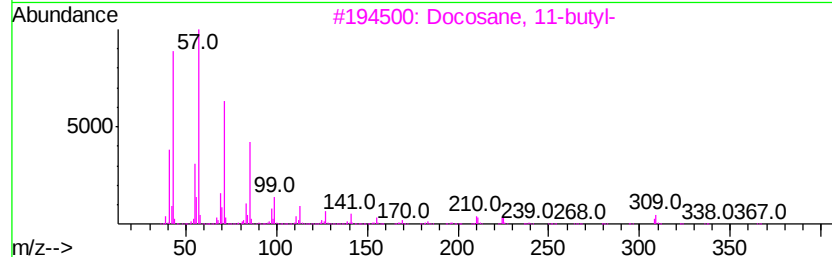
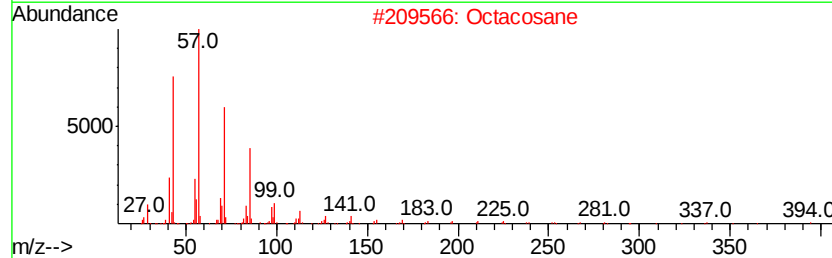
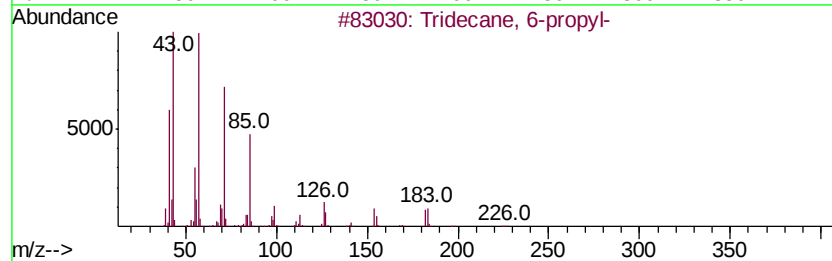
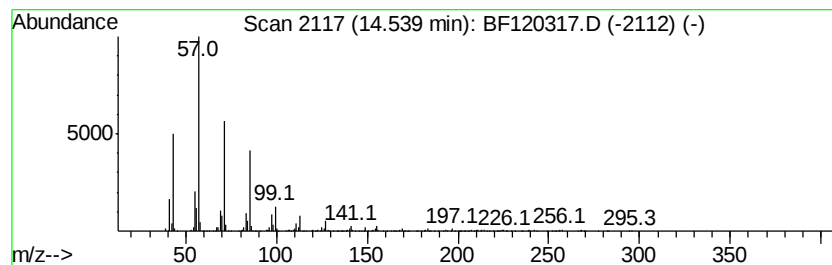
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Tridecane, 6-propyl- Concentration Rank 2

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.54 | 10.38 ng | 976224 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane, 6-propyl- | 226 | C16H34  | 055045-10-8 | 93   |
| 2    |    | Octacosane           | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Docosane, 11-butyl-  | 366 | C26H54  | 013475-76-8 | 91   |
| 4    |    | Tetracosane          | 338 | C24H50  | 000646-31-1 | 91   |
| 5    |    | Hexacosane           | 366 | C26H54  | 000630-01-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
 Data File : BF120317.D  
 Acq On : 15 May 2020 13:12  
 Operator : MA/SJ  
 Sample : L2605-07  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

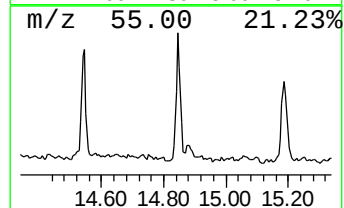
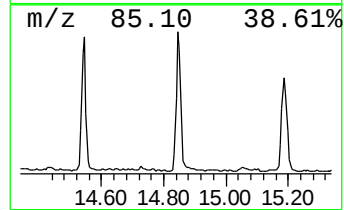
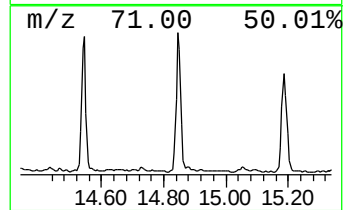
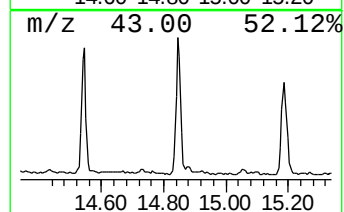
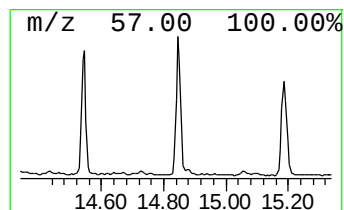
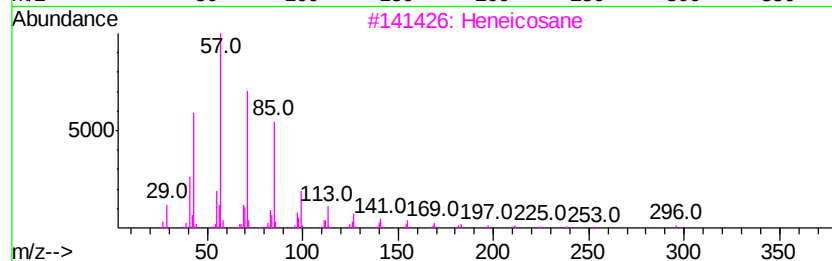
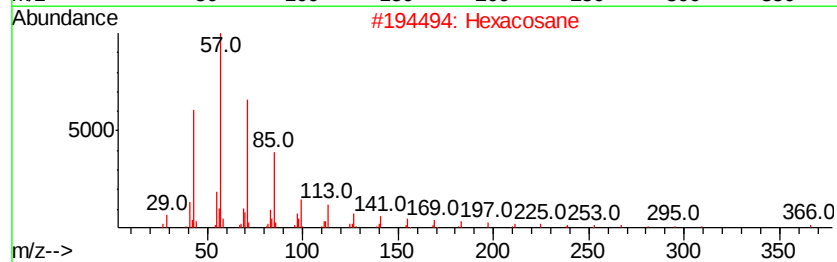
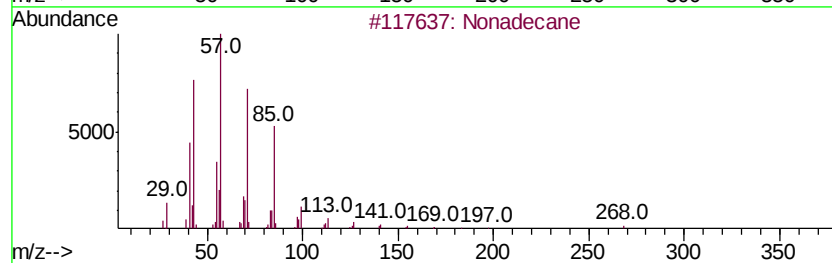
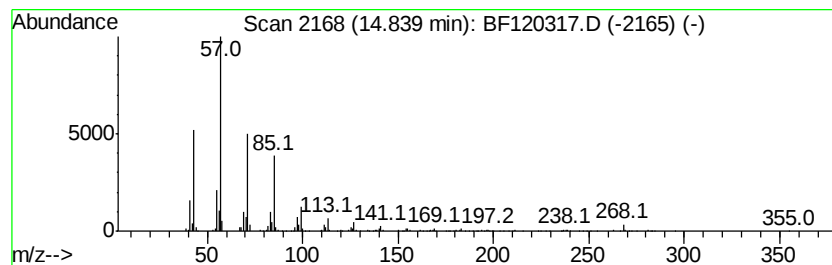
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 8 Nonadecane Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.84 | 10.26 ng | 964671 | Perylene-d12     | 15.16 |

| Hit# of | 5                            | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------|--------------|-----|---------|-------------|------|
| 1       | Nonadecane                   |              | 268 | C19H40  | 000629-92-5 | 91   |
| 2       | Hexacosane                   |              | 366 | C26H54  | 000630-01-3 | 91   |
| 3       | Heneicosane                  |              | 296 | C21H44  | 000629-94-7 | 90   |
| 4       | Hexadecane                   |              | 226 | C16H34  | 000544-76-3 | 87   |
| 5       | Dodecane, 2-methyl-6-propyl- |              | 226 | C16H34  | 055045-08-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

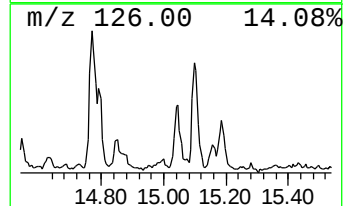
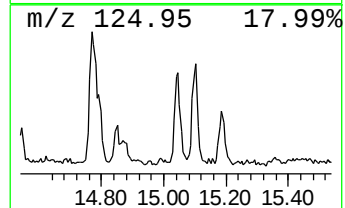
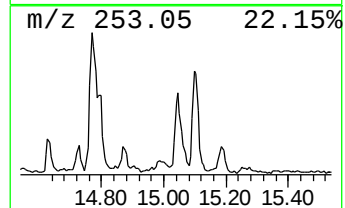
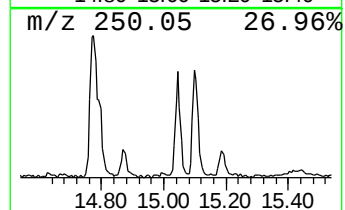
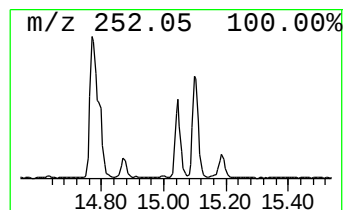
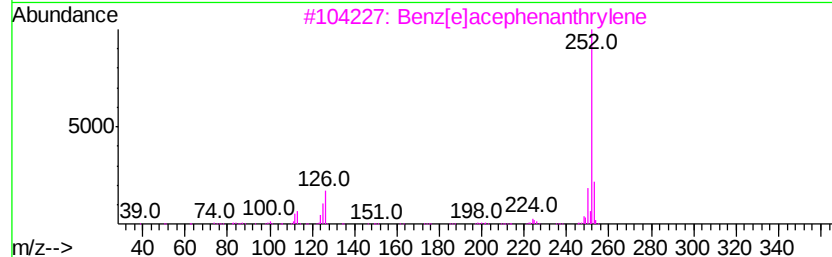
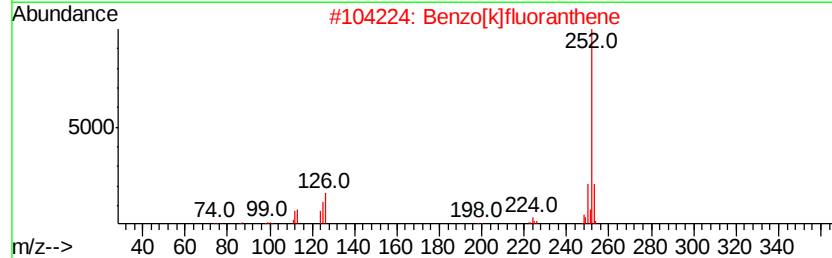
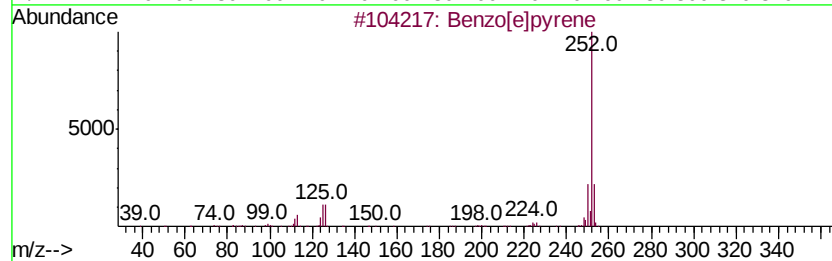
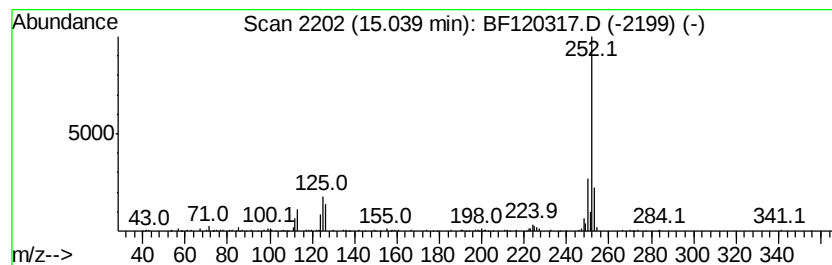
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzo[e]pyrene Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.04 | 2.48 ng | 233529 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 96   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

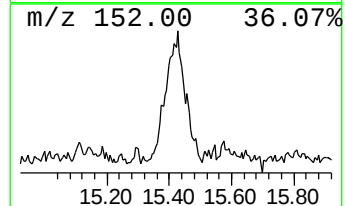
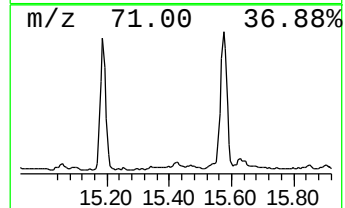
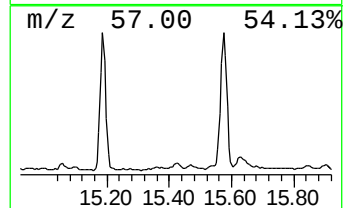
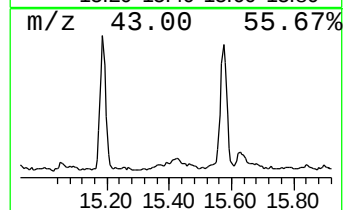
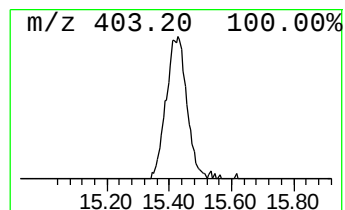
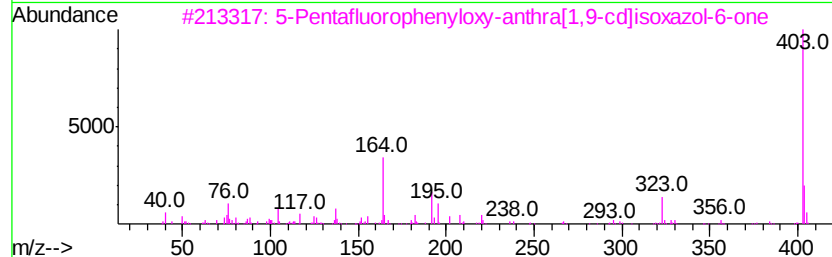
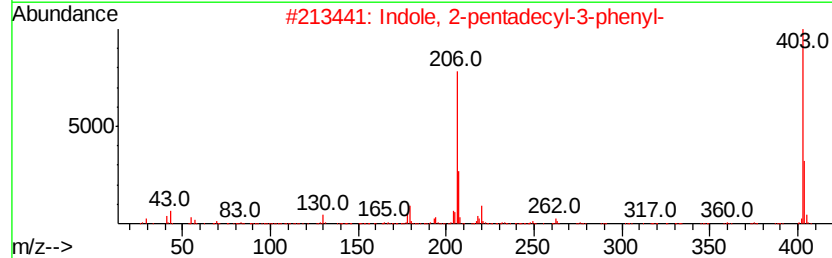
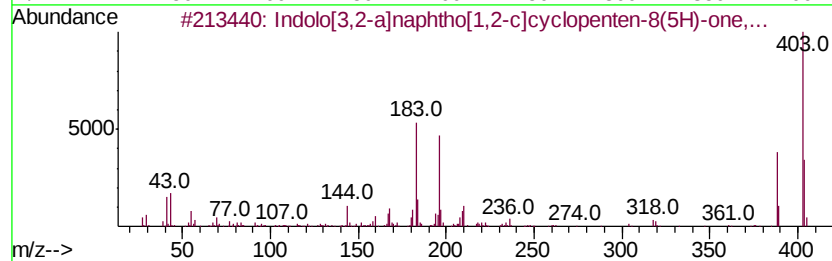
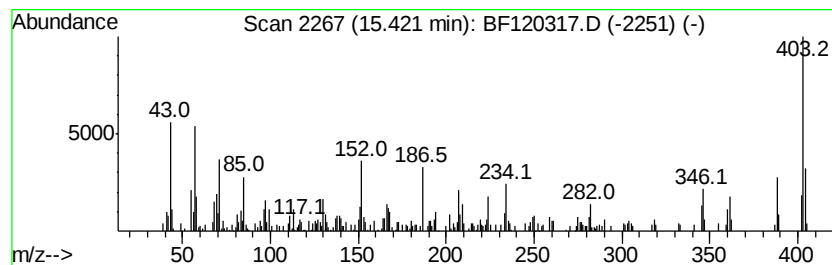
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Indolo[3,2-a]naphtho[1,2-c]... Concentration Rank 6

| R.T.    | EstConc | Area                                 | Relative to ISTD | R.T.        |              |      |
|---------|---------|--------------------------------------|------------------|-------------|--------------|------|
| 15.42   | 8.27 ng | 777895                               | Perylene-d12     | 15.16       |              |      |
| Hit# of | 5       | Tentative ID                         | MW               | MolForm     | CAS#         | Qual |
| 1       |         | Indolo[3,2-a]naphtho[1,2-c]cyclo...  | 403              | C28H37NO    | 1000194-83-6 | 78   |
| 2       |         | Indole, 2-pentadecyl-3-phenyl-       | 403              | C29H41N     | 144054-05-7  | 32   |
| 3       |         | 5-Pentafluorophenyl-oxo-anthra[1,... | 403              | C20H6F5NO3  | 153880-59-2  | 25   |
| 4       |         | Androstan-17-one, 3-[(tripropyls...  | 446              | C28H50O2Si  | 065598-89-2  | 23   |
| 5       |         | Pyrazolo[1,5-a]pyrimidine, 2-ter...  | 403              | C18H15F6N3O | 1000270-36-4 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

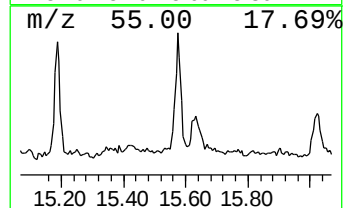
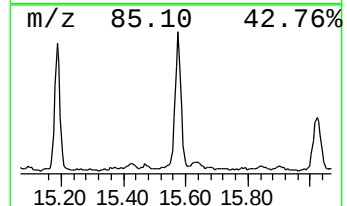
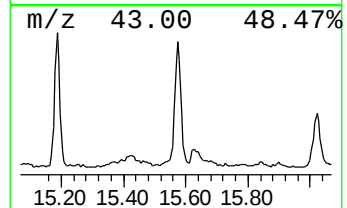
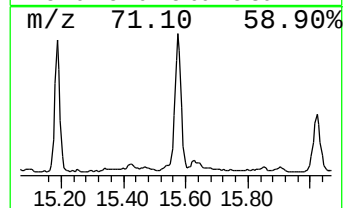
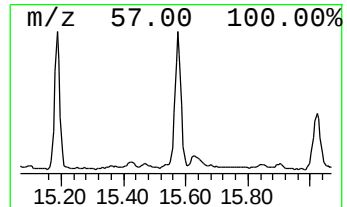
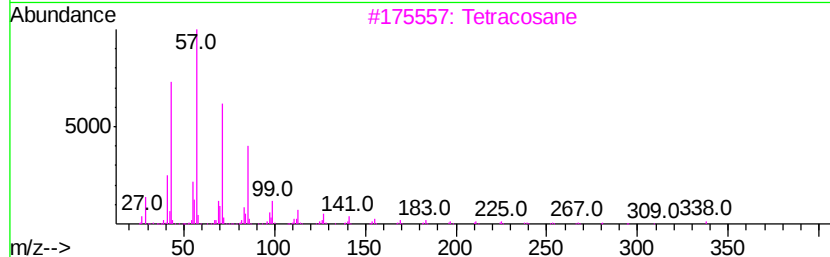
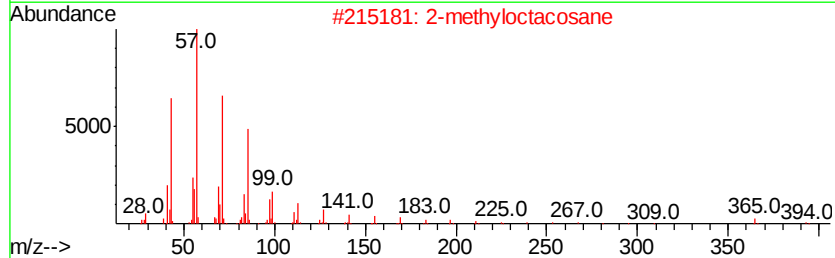
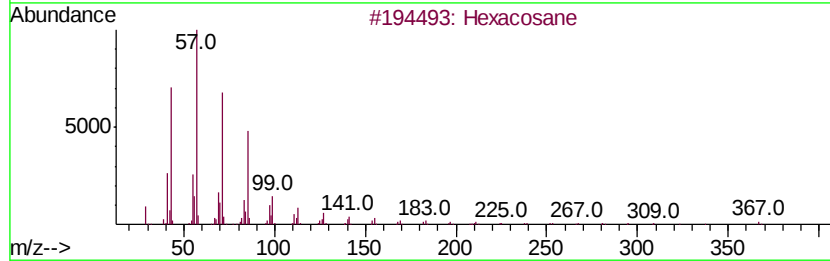
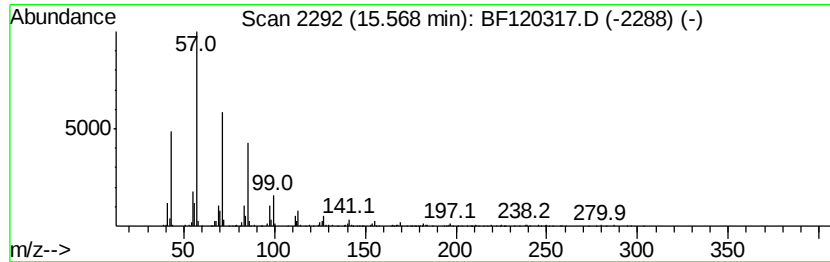
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BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Hexacosane Concentration Rank 5

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 15.57   | 8.84 ng            | 830749       | Perylene-d12     | 15.16     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexacosane         | 366 C26H54   | 000630-01-3      | 91        |
| 2       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 90        |
| 3       | Tetracosane        | 338 C24H50   | 000646-31-1      | 90        |
| 4       | Octacosane         | 394 C28H58   | 000630-02-4      | 90        |
| 5       | Eicosane, 7-hexyl- | 366 C26H54   | 055333-99-8      | 90        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

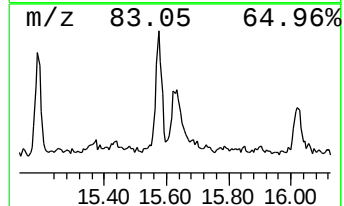
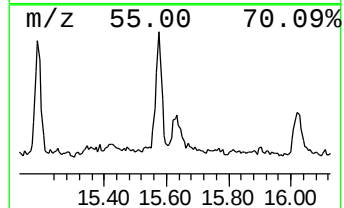
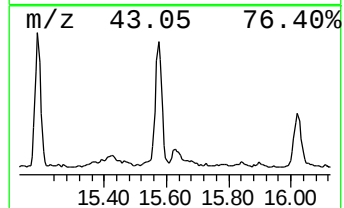
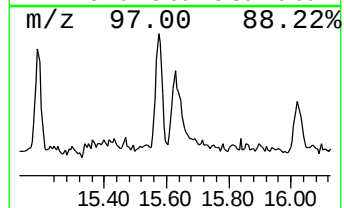
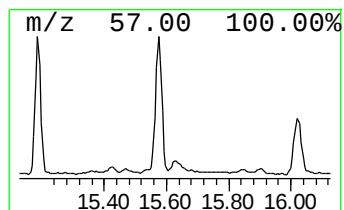
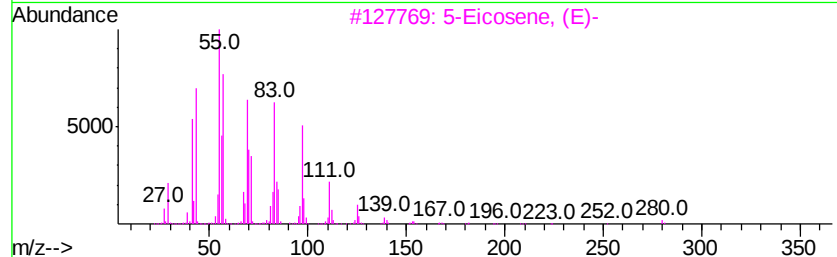
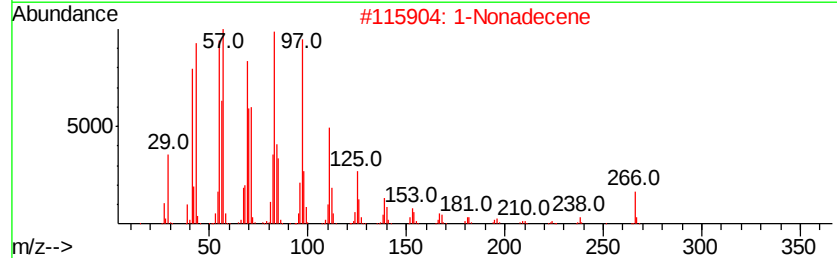
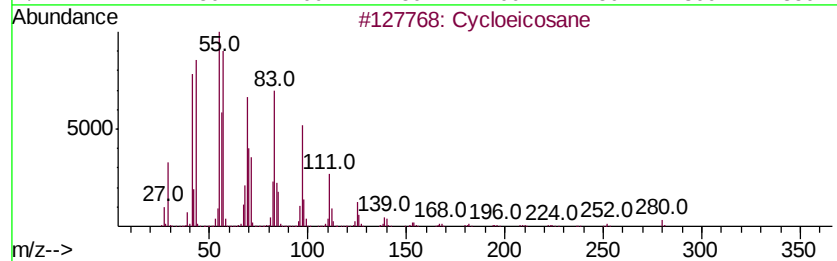
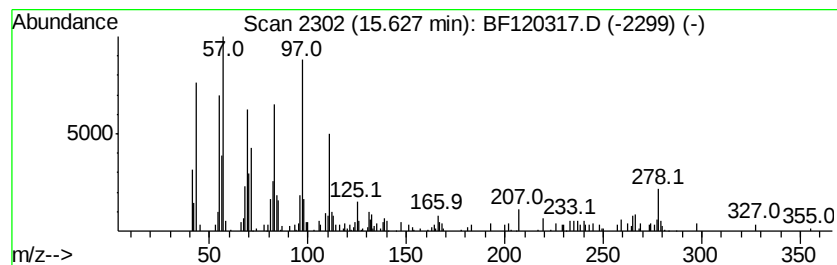
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Cycloeicosane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.63 | 2.56 ng | 240698 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Cycloeicosane    | 280 | C20H40  | 000296-56-0 | 89   |
| 2    |    | 1-Nonadecene     | 266 | C19H38  | 018435-45-5 | 87   |
| 3    |    | 5-Eicosene, (E)- | 280 | C20H40  | 074685-30-6 | 83   |
| 4    |    | 9-Nonadecene     | 266 | C19H38  | 031035-07-1 | 70   |
| 5    |    | 1-Eicosene       | 280 | C20H40  | 003452-07-1 | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

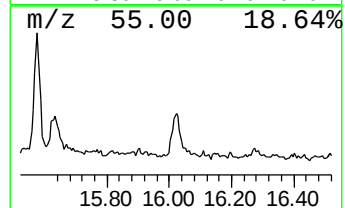
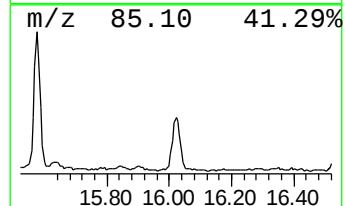
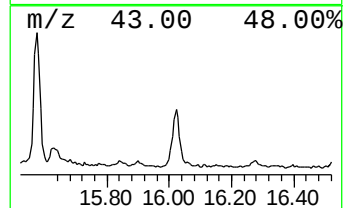
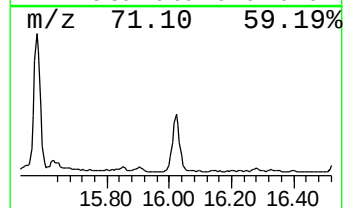
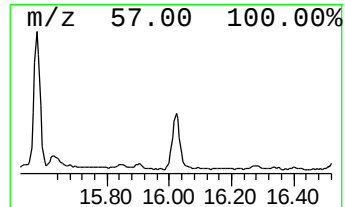
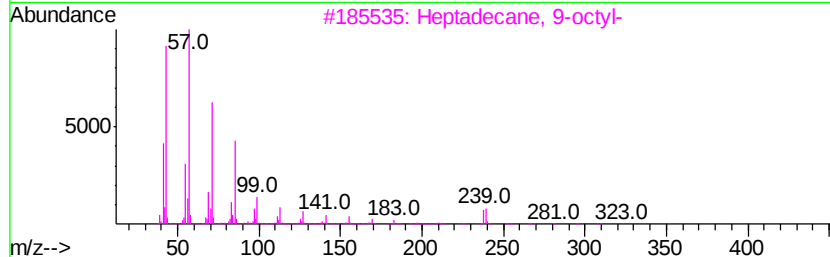
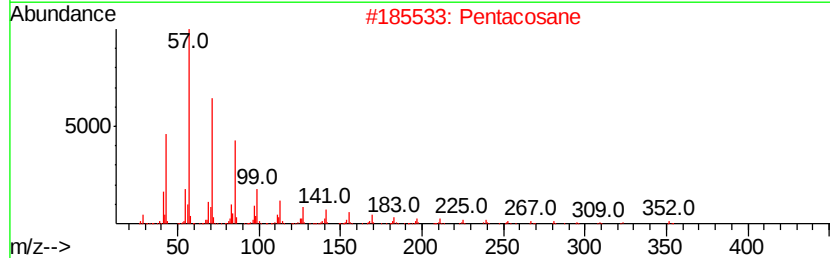
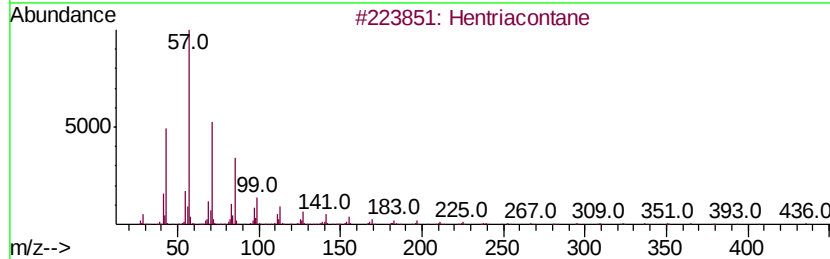
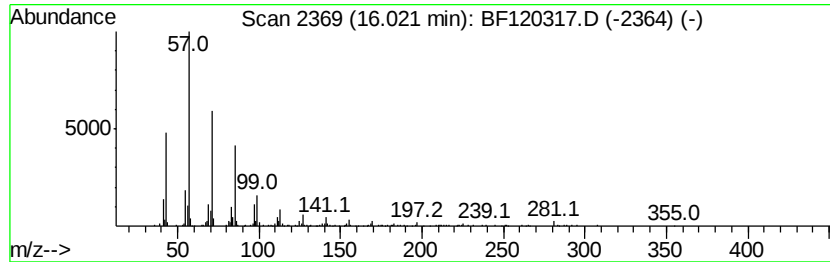
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Hentriacontane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.02 | 4.86 ng | 457312 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 91   |
| 2    |    | Pentacosane           | 352 | C25H52  | 000629-99-2 | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 4    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 91   |
| 5    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
Data File : BF120317.D  
Acq On : 15 May 2020 13:12  
Operator : MA/SJ  
Sample : L2605-07  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

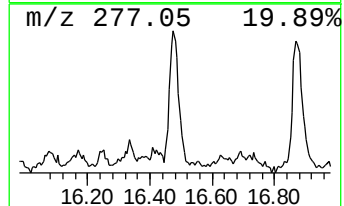
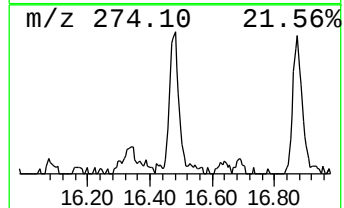
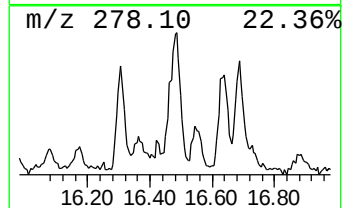
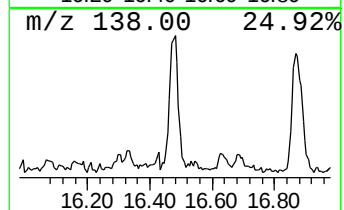
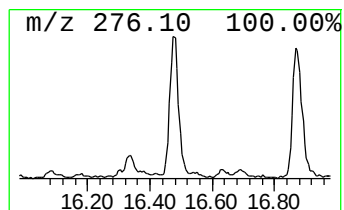
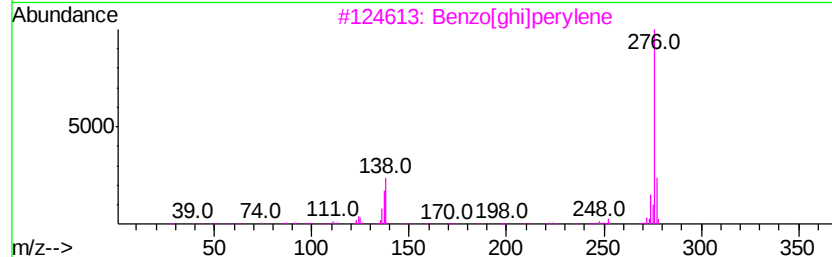
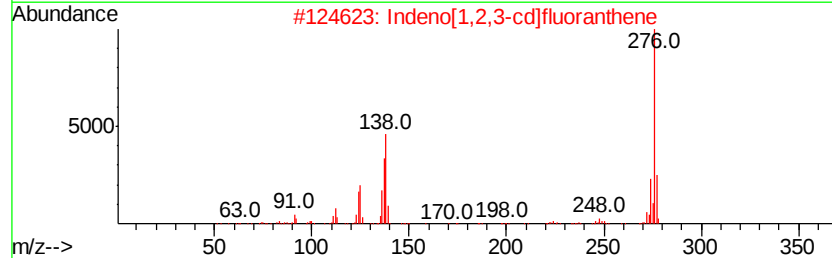
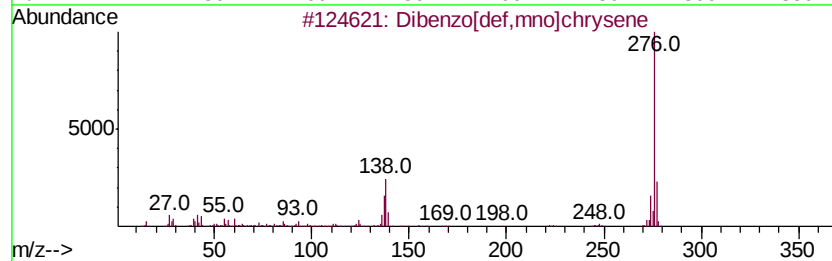
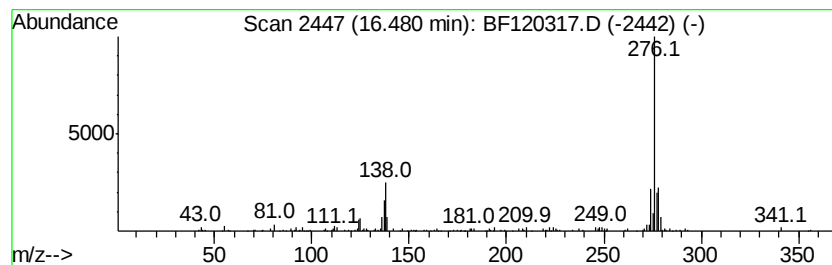
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Dibenzo[def,mno]chrysene Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.48 | 2.51 ng | 235816 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Dibenzo[def,mno]chrysene            | 276 | C22H12    | 000191-26-4 | 95   |
| 2    |    | Indeno[1,2,3-cd]fluoranthene        | 276 | C22H12    | 000193-43-1 | 89   |
| 3    |    | Benzo[ghi]perylene                  | 276 | C22H12    | 000191-24-2 | 76   |
| 4    |    | Indeno[1,2,3-cd]pyrene              | 276 | C22H12    | 000193-39-5 | 68   |
| 5    |    | Phosphoric acid, 4-methoxy-2-(me... | 276 | C11H17O6P | 094420-71-0 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\  
 Data File : BF120317.D  
 Acq On : 15 May 2020 13:12  
 Operator : MA/SJ  
 Sample : L2605-07  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

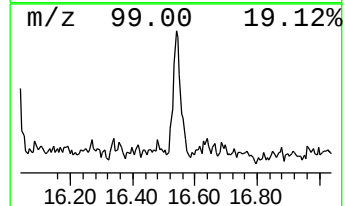
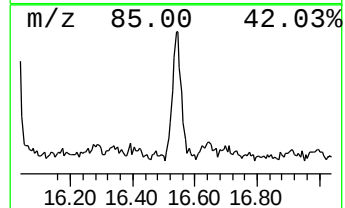
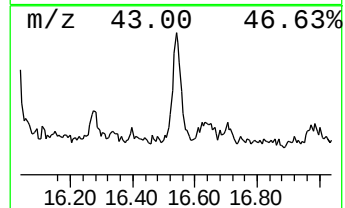
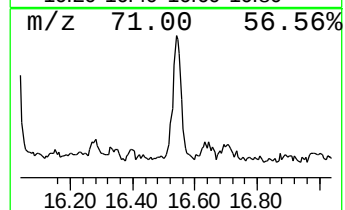
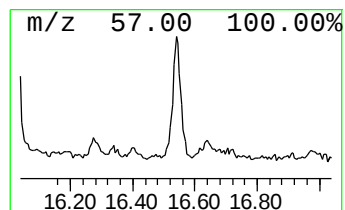
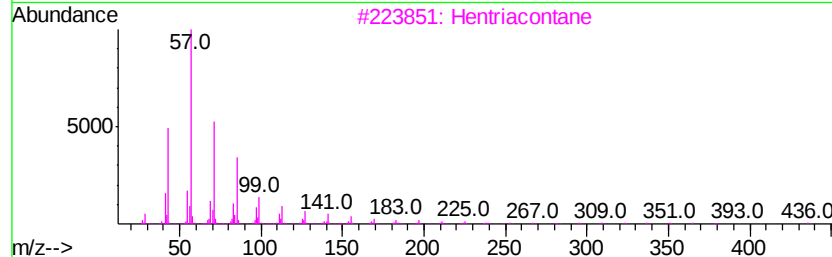
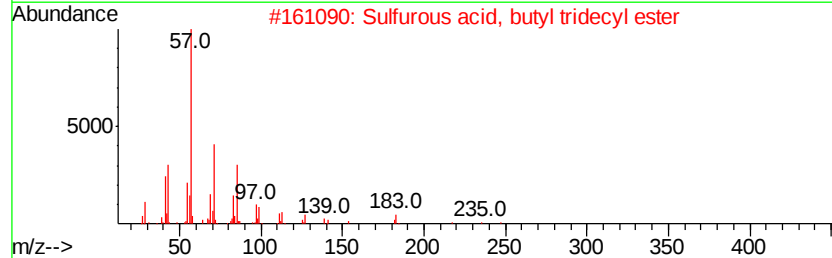
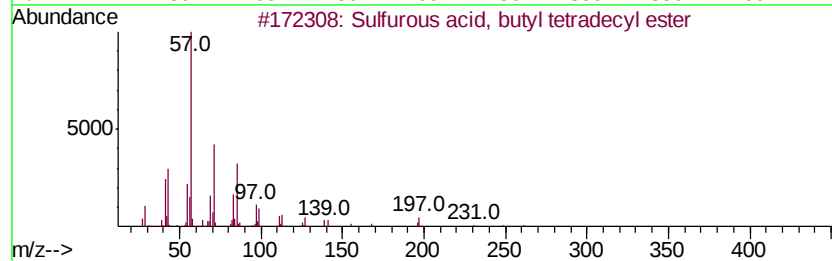
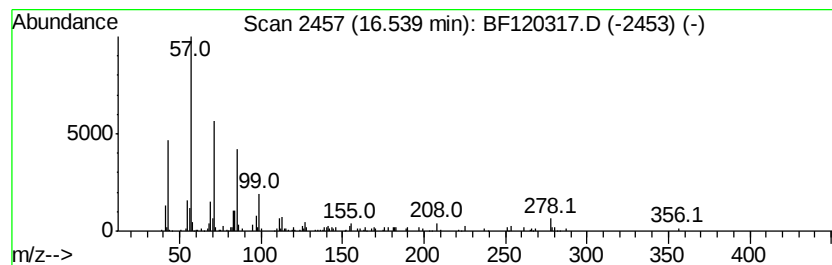
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 15 Sulfurous acid, butyl tetra... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.54 | 2.37 ng | 222439 | Perylene-d12     | 15.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, butyl tetradecyl... | 334 | C18H38O3S | 1000309-18-1 | 83   |
| 2    |    | Sulfurous acid, butyl tridecyl e... | 320 | C17H36O3S | 1000309-18-0 | 80   |
| 3    |    | Hentriacontane                      | 437 | C31H64    | 000630-04-6  | 80   |
| 4    |    | Hexacosane                          | 366 | C26H54    | 000630-01-3  | 74   |
| 5    |    | Octacosane                          | 394 | C28H58    | 000630-02-4  | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF051520\  
 Data File : BF120317.D  
 Acq On : 15 May 2020 13:12  
 Operator : MA/SJ  
 Sample : L2605-07  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239996

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF051420.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  | 11.68 | 7.8 ng  |       | 1437520  | 4                     | 11.13 | 3670430 | 20.0 |
| Octadecanoic acid    | 12.46 | 3.8 ng  |       | 605050   | 5                     | 13.77 | 3226240 | 20.0 |
| Heptadecyl heptaf... | 13.62 | 9.0 ng  |       | 1448730  | 5                     | 13.77 | 3226240 | 20.0 |
| Hexadecane           | 13.94 | 2.7 ng  |       | 439147   | 5                     | 13.77 | 3226240 | 20.0 |
| Heptadecane          | 14.25 | 5.0 ng  |       | 809160   | 5                     | 13.77 | 3226240 | 20.0 |
| Tridecane, 6-propyl- | 14.54 | 10.4 ng |       | 976224   | 6                     | 15.16 | 1880250 | 20.0 |
| Nonadecane           | 14.84 | 10.3 ng |       | 964671   | 6                     | 15.16 | 1880250 | 20.0 |
| Benzo[e]pyrene       | 15.04 | 2.5 ng  |       | 233529   | 6                     | 15.16 | 1880250 | 20.0 |
| Indolo[3,2-a]naph... | 15.42 | 8.3 ng  |       | 777895   | 6                     | 15.16 | 1880250 | 20.0 |
| Hexacosane           | 15.57 | 8.8 ng  |       | 830749   | 6                     | 15.16 | 1880250 | 20.0 |
| Cycloeicosane        | 15.63 | 2.6 ng  |       | 240698   | 6                     | 15.16 | 1880250 | 20.0 |
| Hentriacontane       | 16.02 | 4.9 ng  |       | 457312   | 6                     | 15.16 | 1880250 | 20.0 |
| Dibenzo[def,mno]c... | 16.48 | 2.5 ng  |       | 235816   | 6                     | 15.16 | 1880250 | 20.0 |
| Sulfurous acid, b... | 16.54 | 2.4 ng  |       | 222439   | 6                     | 15.16 | 1880250 | 20.0 |