

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
 Data File : BF119655.D  
 Acq On : 31 Mar 2020 16:47  
 Operator : MA/SJ  
 Sample : L2042-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-5.5-6.0

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-BF031820.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         | 2.122       | 3             | 6           | 20           | rVB      | 305661         | 421348        | 4.88%           | 0.624%        |
| 2         | 2.228       | 20            | 24          | 37           | rVB2     | 100342         | 178184        | 2.06%           | 0.264%        |
| 3         | 5.051       | 501           | 504         | 512          | rVB      | 140156         | 191476        | 2.22%           | 0.283%        |
| 4         | 5.445       | 566           | 571         | 574          | rBV      | 7534800        | 7944186       | 91.94%          | 11.758%       |
| 5         | 6.457       | 737           | 743         | 746          | rBV      | 6691568        | 7857496       | 90.94%          | 11.630%       |
| 6         | 6.828       | 802           | 806         | 809          | rBV      | 2497339        | 1967936       | 22.78%          | 2.913%        |
| 7         | 6.987       | 828           | 833         | 836          | rBV      | 7283865        | 6362799       | 73.64%          | 9.418%        |
| 8         | 7.392       | 896           | 902         | 905          | rBV      | 5254584        | 5225194       | 60.47%          | 7.734%        |
| 9         | 8.116       | 1020          | 1025        | 1028         | rBV      | 2955379        | 2549104       | 29.50%          | 3.773%        |
| 10        | 8.875       | 1151          | 1154        | 1161         | rBV      | 178451         | 217289        | 2.51%           | 0.322%        |
| 11        | 9.198       | 1203          | 1209        | 1212         | rBV      | 9642836        | 8640272       | 100.00%         | 12.789%       |
| 12        | 9.586       | 1272          | 1275        | 1279         | rBV      | 750095         | 604688        | 7.00%           | 0.895%        |
| 13        | 9.875       | 1318          | 1324        | 1328         | rBV      | 3278319        | 2766994       | 32.02%          | 4.095%        |
| 14        | 10.669      | 1454          | 1459        | 1462         | rBV      | 5530256        | 4959764       | 57.40%          | 7.341%        |
| 15        | 11.363      | 1573          | 1577        | 1580         | rBV      | 2760019        | 2509555       | 29.04%          | 3.714%        |
| 16        | 11.898      | 1664          | 1668        | 1678         | rBV      | 1672422        | 1703530       | 19.72%          | 2.521%        |
| 17        | 12.580      | 1778          | 1784        | 1786         | rBV2     | 210582         | 287864        | 3.33%           | 0.426%        |
| 18        | 12.686      | 1798          | 1802        | 1811         | rBV      | 605096         | 692439        | 8.01%           | 1.025%        |
| 19        | 12.810      | 1820          | 1823        | 1825         | rVB      | 133914         | 121922        | 1.41%           | 0.180%        |
| 20        | 12.957      | 1844          | 1848        | 1851         | rBV      | 6747554        | 6570940       | 76.05%          | 9.726%        |
| 21        | 13.192      | 1885          | 1888        | 1892         | rBV2     | 149689         | 159948        | 1.85%           | 0.237%        |
| 22        | 13.533      | 1944          | 1946        | 1949         | rBV2     | 120991         | 104546        | 1.21%           | 0.155%        |
| 23        | 13.874      | 2000          | 2004        | 2012         | rBV      | 906763         | 1433606       | 16.59%          | 2.122%        |
| 24        | 14.010      | 2023          | 2027        | 2030         | rBV      | 1917684        | 1735327       | 20.08%          | 2.568%        |
| 25        | 14.180      | 2054          | 2056        | 2060         | rBV      | 166845         | 133606        | 1.55%           | 0.198%        |
| 26        | 14.486      | 2106          | 2108        | 2111         | rBV      | 235222         | 217724        | 2.52%           | 0.322%        |
| 27        | 14.798      | 2159          | 2161        | 2165         | rVB      | 244467         | 203702        | 2.36%           | 0.302%        |
| 28        | 15.139      | 2216          | 2219        | 2223         | rVB      | 277366         | 306725        | 3.55%           | 0.454%        |
| 29        | 15.480      | 2272          | 2277        | 2280         | rBV      | 1165716        | 1494238       | 17.29%          | 2.212%        |

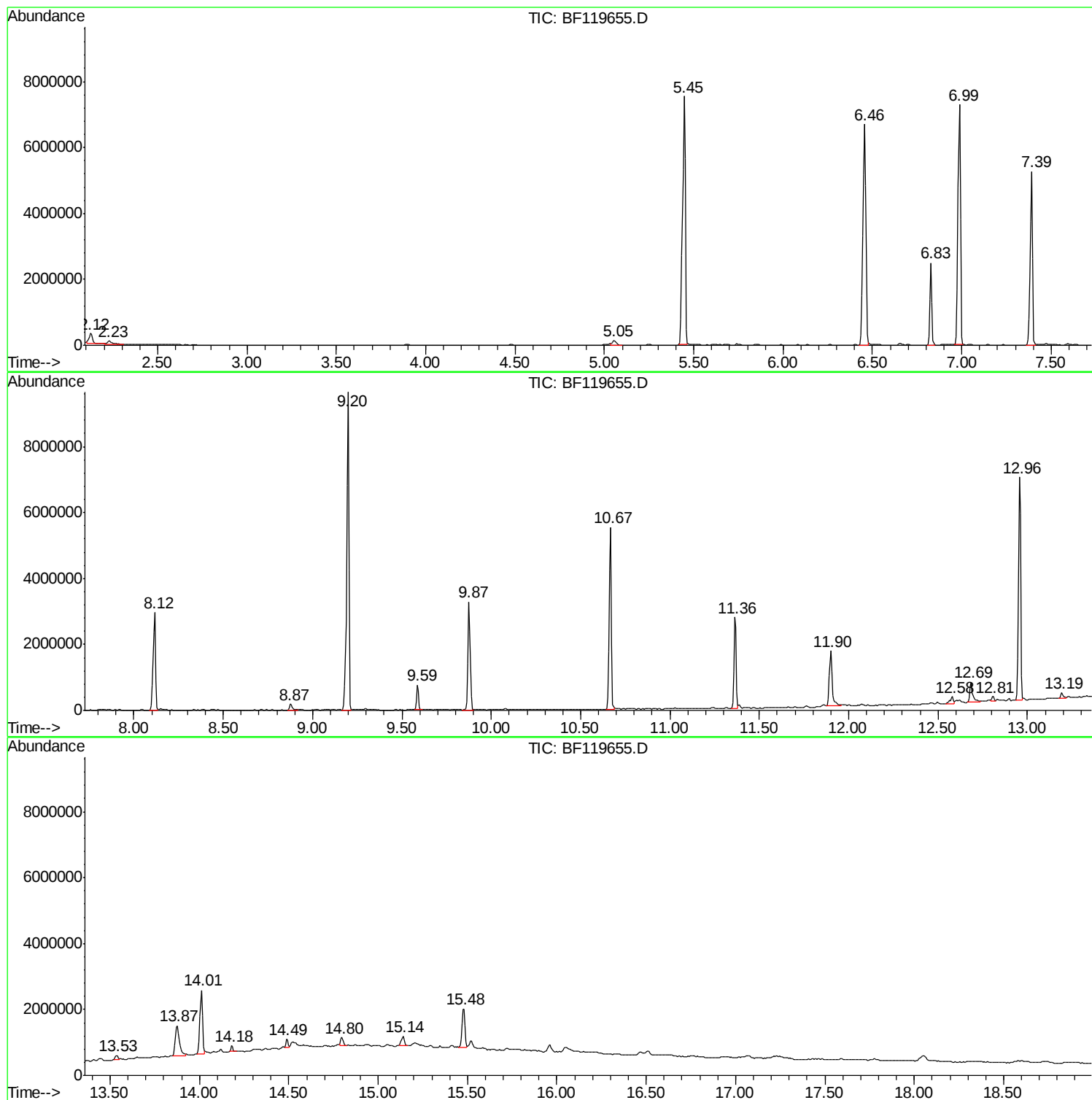
Sum of corrected areas: 67562402

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.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\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

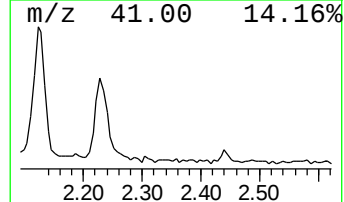
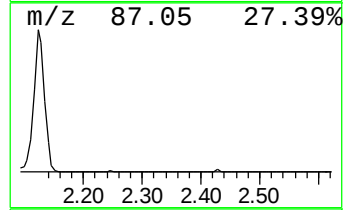
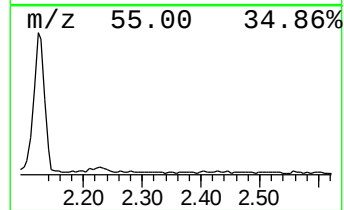
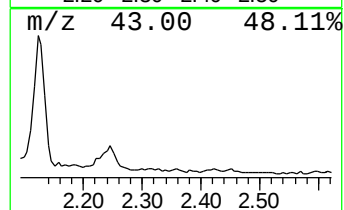
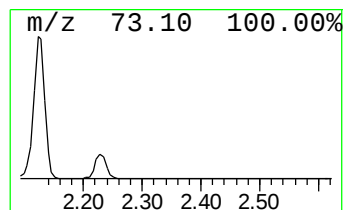
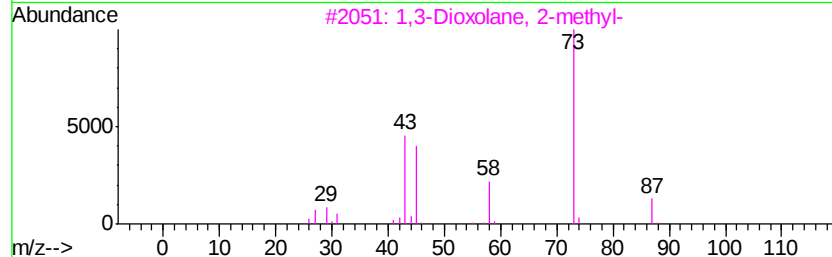
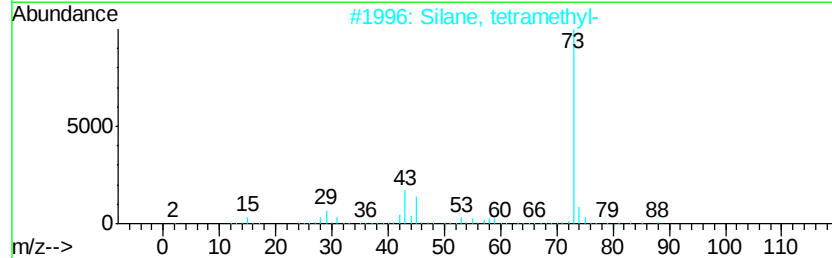
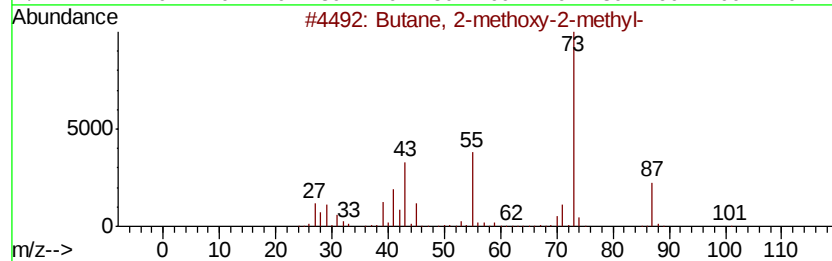
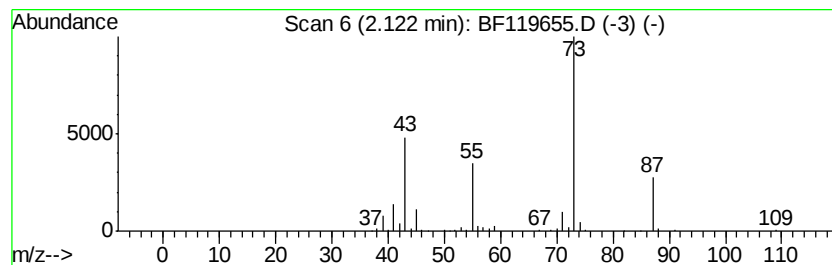
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.12 | 4.28 ng | 421348 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-       | 102 | C6H14O  | 000994-05-8 | 50   |
| 2    |    | Silane, tetramethyl-              | 88  | C4H12Si | 000075-76-3 | 38   |
| 3    |    | 1,3-Dioxolane, 2-methyl-          | 88  | C4H8O2  | 000497-26-7 | 32   |
| 4    |    | 2-Hydroxy-2-methylbutyric acid    | 118 | C5H10O3 | 003739-30-8 | 32   |
| 5    |    | 2,5-Dimethyl-4-hydroxy-3-hexanone | 144 | C8H16O2 | 000815-77-0 | 28   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

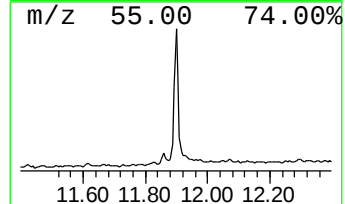
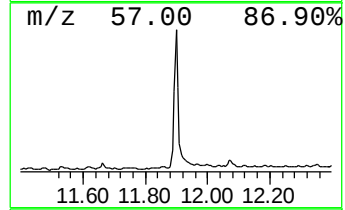
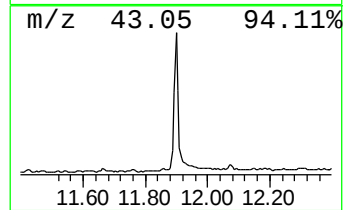
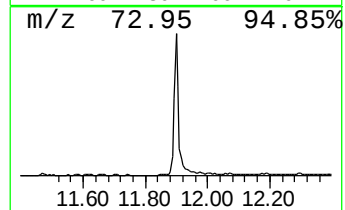
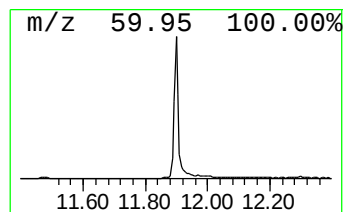
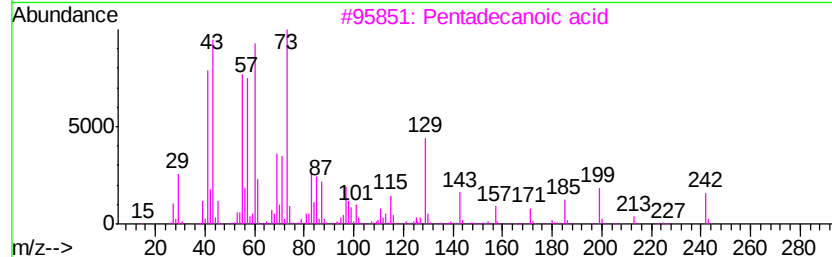
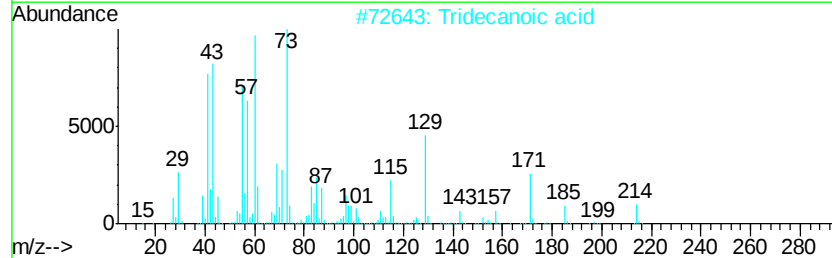
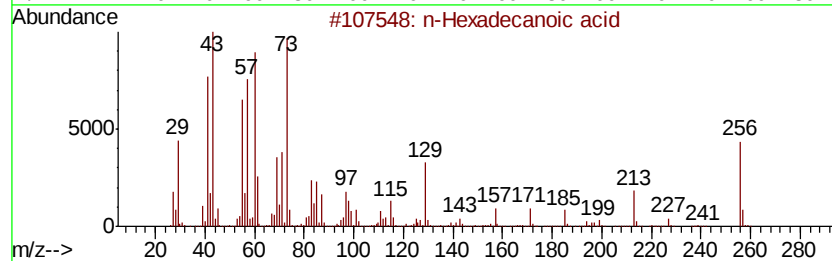
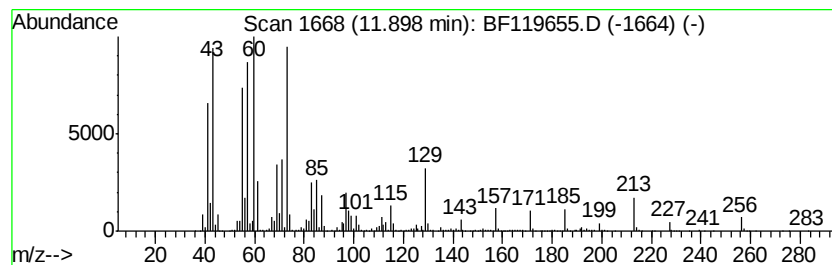
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.90 | 13.58 ng | 1703530 | Phenanthrene-d10 | 11.36 |

| 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 | 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 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

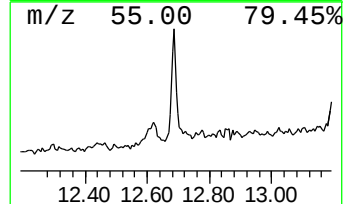
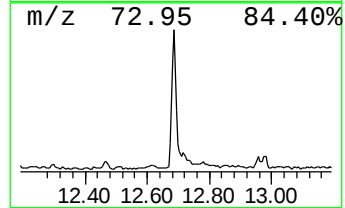
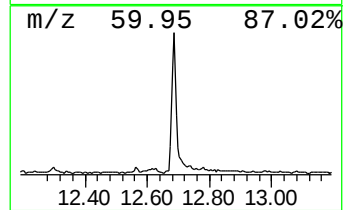
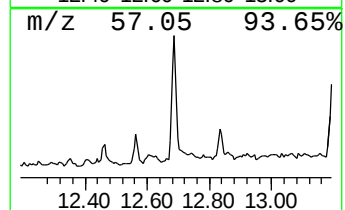
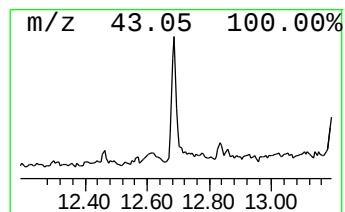
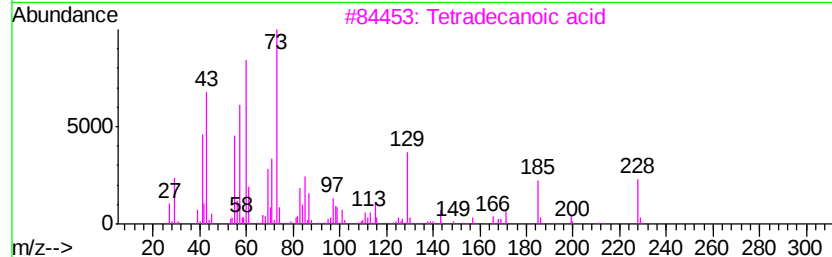
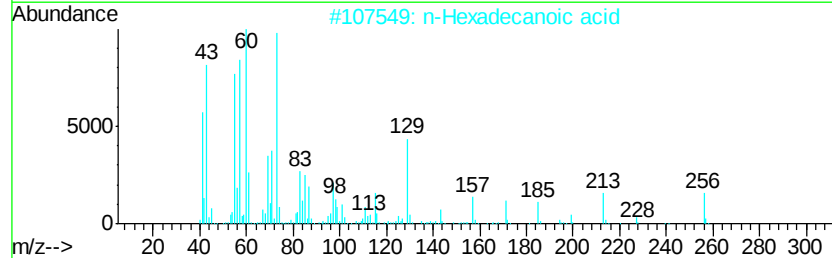
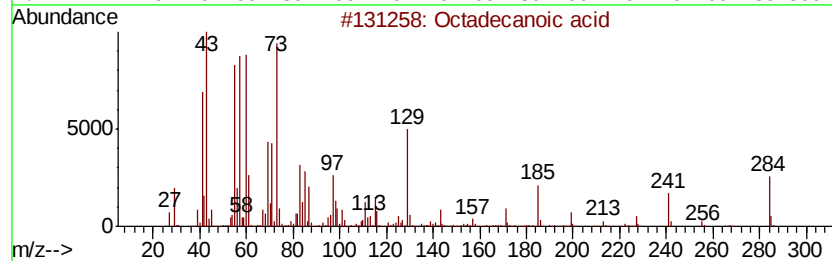
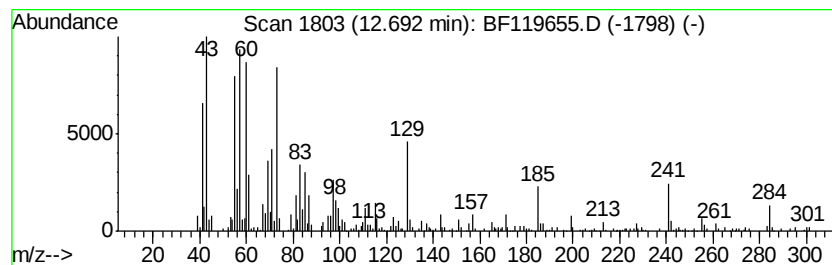
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.69 | 7.98 ng | 692439 | Chrysene-d12     | 14.01 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|---------|---|------------------------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid                  | 284 | C18H36O2 | 000057-11-4 | 98   |
| 2       |   | n-Hexadecanoic acid                | 256 | C16H32O2 | 000057-10-3 | 83   |
| 3       |   | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8 | 72   |
| 4       |   | Tridecanoic acid                   | 214 | C13H26O2 | 000638-53-9 | 68   |
| 5       |   | Octadecanoic acid, 2-(2-hydroxy... | 372 | C22H44O4 | 000106-11-6 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

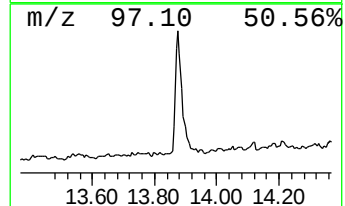
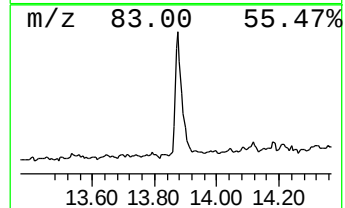
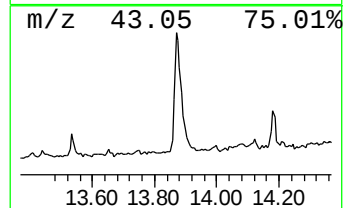
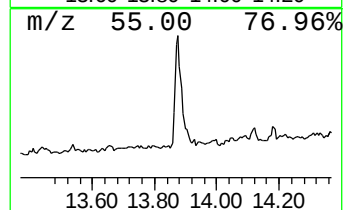
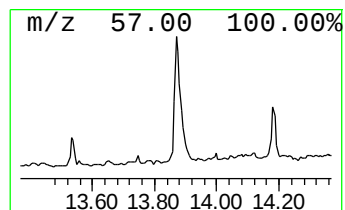
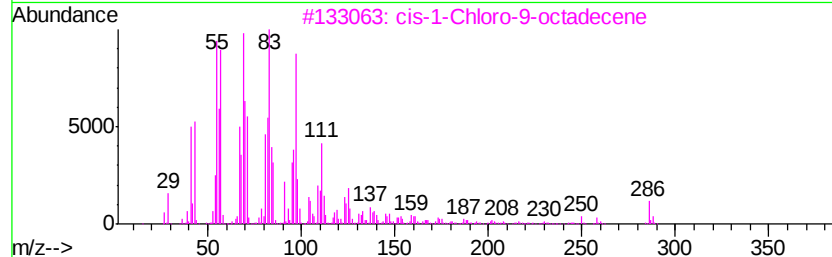
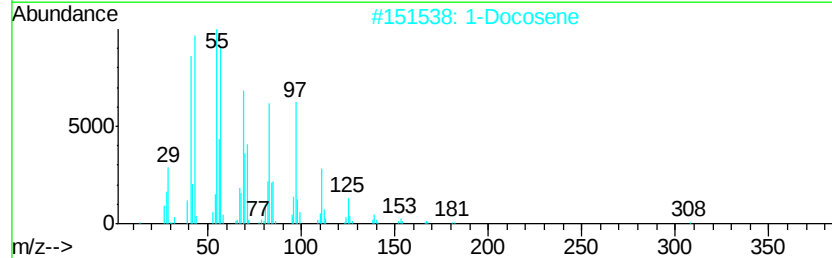
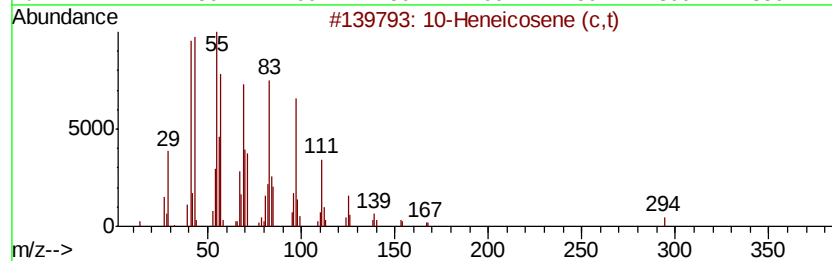
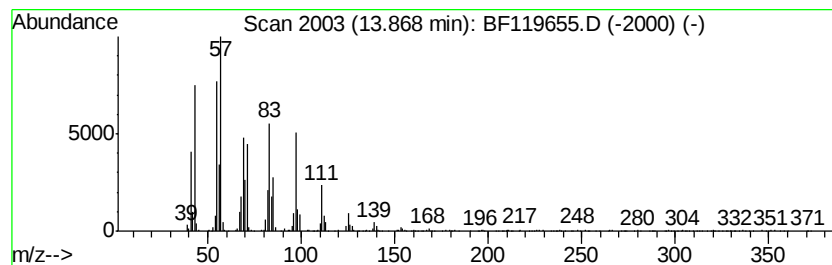
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 10-Heneicosene (c,t) Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.87 | 16.52 ng | 1433610 | Chrysene-d12     | 14.01 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | 10-Heneicosene (c,t)                | 294 | C21H42     | 095008-11-0 | 95   |
| 2       |   | 1-Docosene                          | 308 | C22H44     | 001599-67-3 | 94   |
| 3       |   | cis-1-Chloro-9-octadecene           | 286 | C18H35Cl   | 016507-61-2 | 93   |
| 4       |   | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 91   |
| 5       |   | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

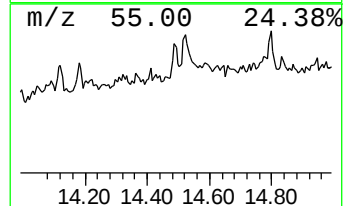
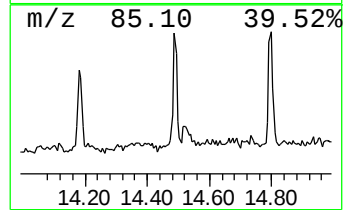
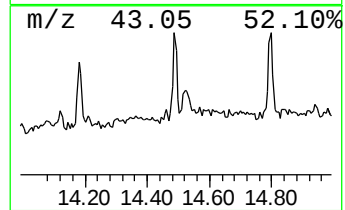
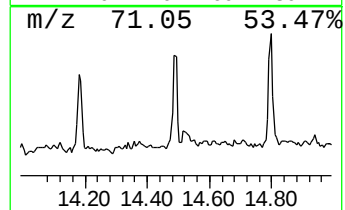
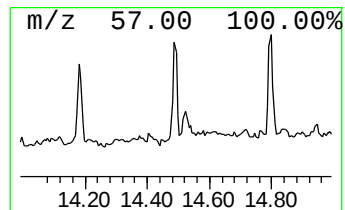
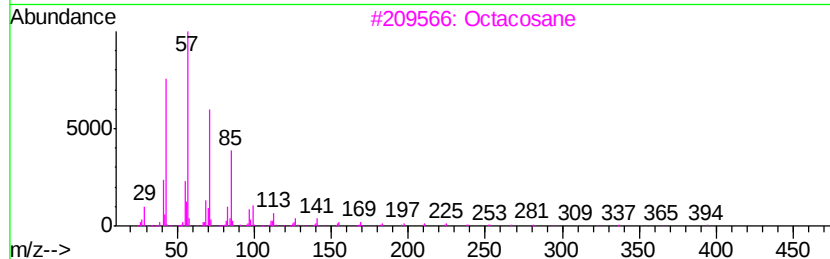
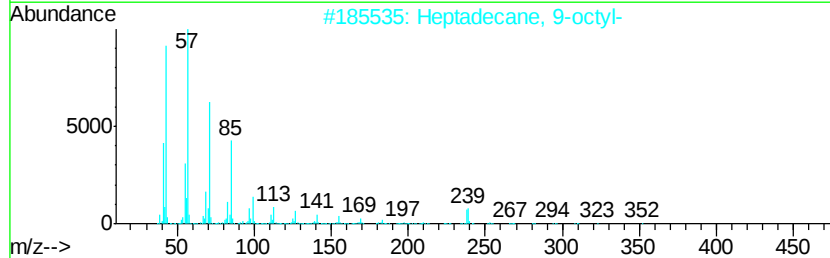
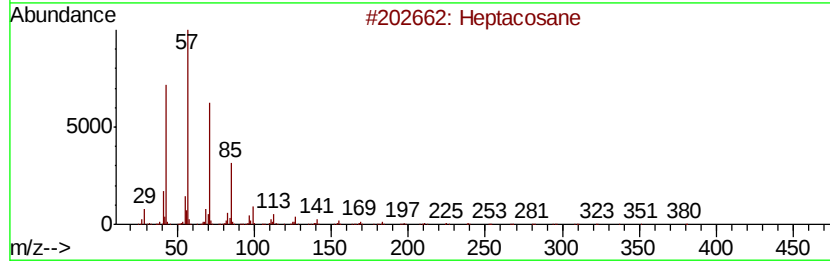
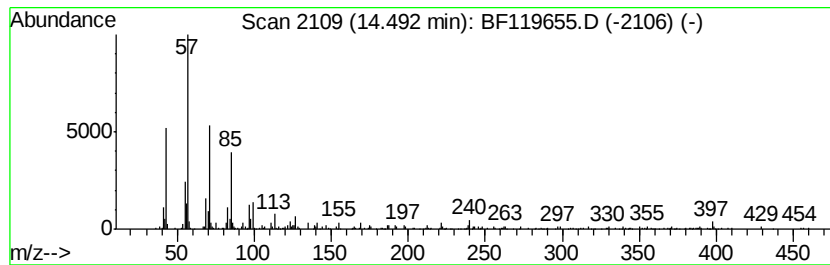
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Heptacosane Concentration Rank 8

| R.T.      | EstConc               | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------|--------|------------------|-------------|-------|
| 14.49     | 2.51 ng               | 217724 | Chrysene-d12     |             | 14.01 |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual  |
| 1         | Heptacosane           | 380    | C27H56           | 000593-49-7 | 95    |
| 2         | Heptadecane, 9-octyl- | 352    | C25H52           | 007225-64-1 | 93    |
| 3         | Octacosane            | 394    | C28H58           | 000630-02-4 | 90    |
| 4         | Eicosane, 9-octyl-    | 394    | C28H58           | 013475-77-9 | 83    |
| 5         | Heptadecane           | 240    | C17H36           | 000629-78-7 | 78    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

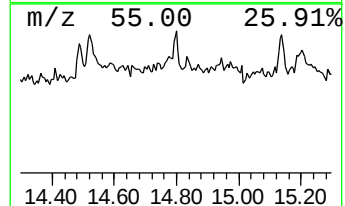
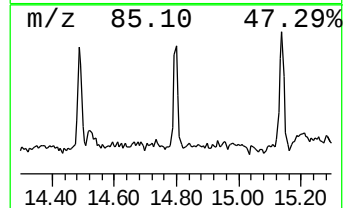
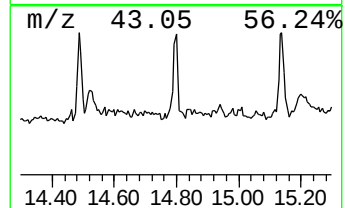
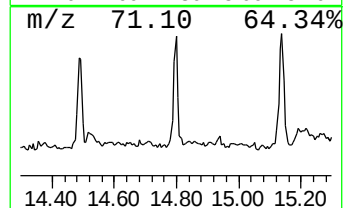
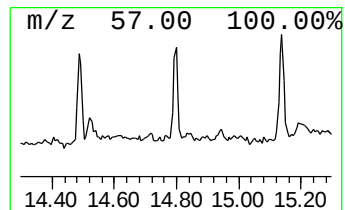
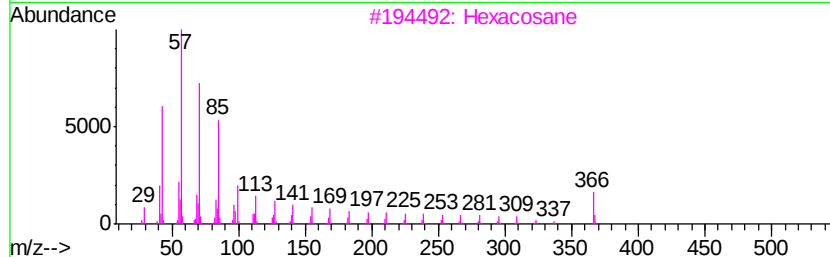
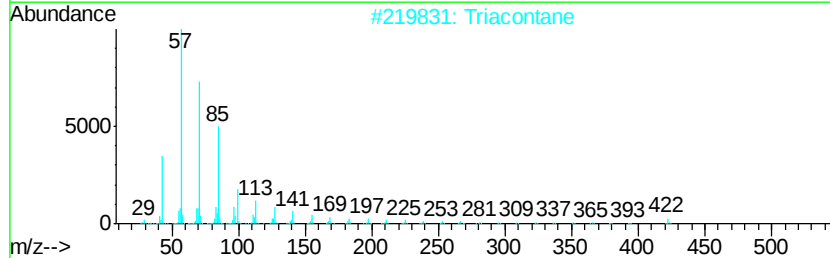
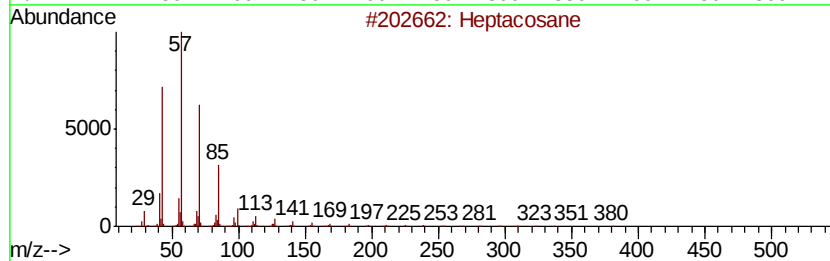
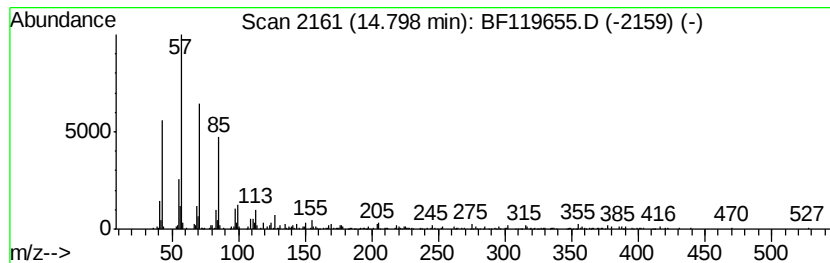
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Triacontane Concentration Rank 7

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 14.80   | 2.73 ng               | 203702       | Perylene-d12     | 15.48     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heptacosane           | 380 C27H56   | 000593-49-7      | 94        |
| 2       | Triacontane           | 422 C30H62   | 000638-68-6      | 93        |
| 3       | Hexacosane            | 366 C26H54   | 000630-01-3      | 87        |
| 4       | Docosane              | 310 C22H46   | 000629-97-0      | 86        |
| 5       | Heptadecane, 9-octyl- | 352 C25H52   | 007225-64-1      | 86        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

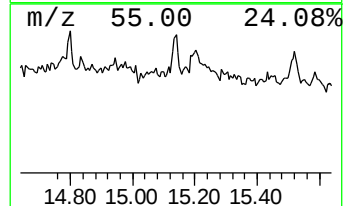
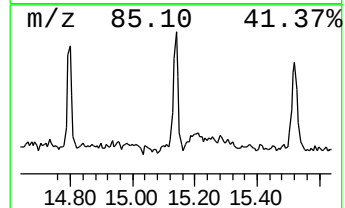
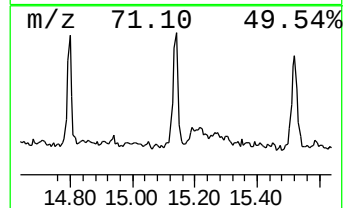
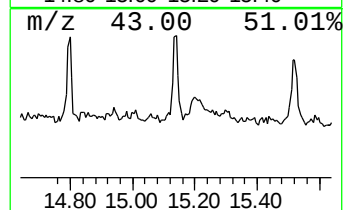
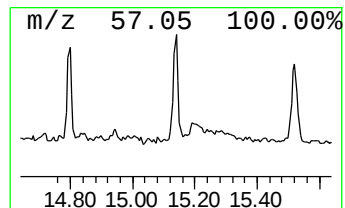
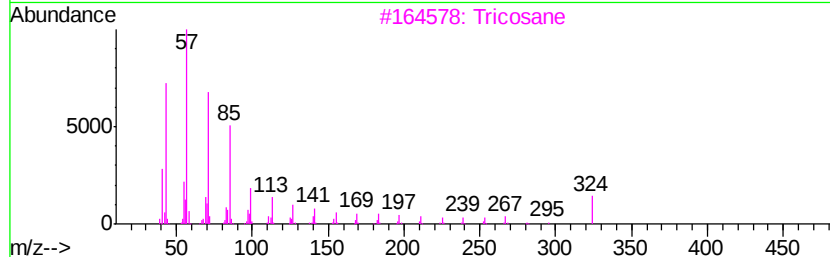
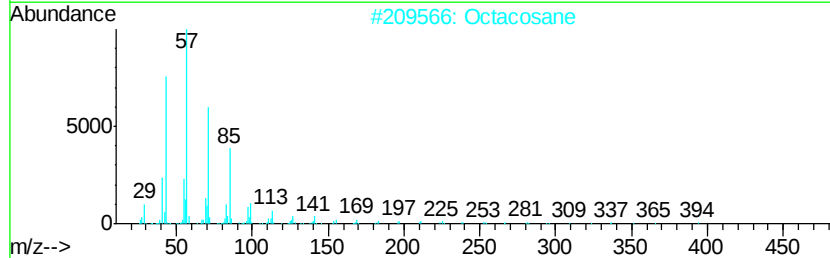
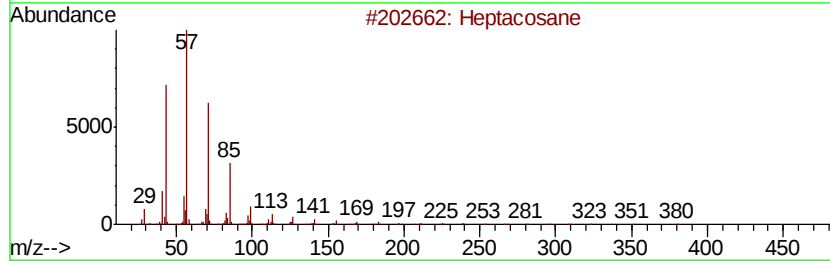
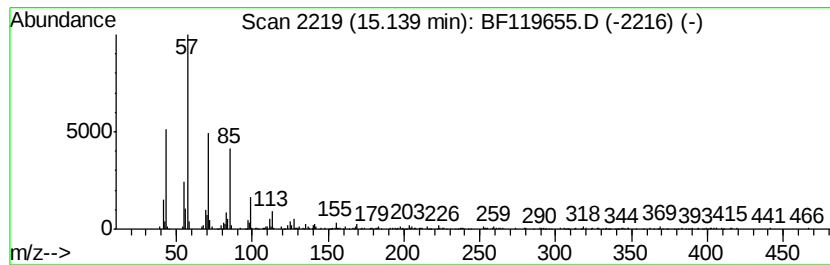
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 Octacosane Concentration Rank 6

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 15.14   | 4.11 ng                | 306725       | Perylene-d12     | 15.48     |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heptacosane            | 380 C27H56   | 000593-49-7      | 93        |
| 2       | Octacosane             | 394 C28H58   | 000630-02-4      | 93        |
| 3       | Tricosane              | 324 C23H48   | 000638-67-5      | 86        |
| 4       | Hexadecane             | 226 C16H34   | 000544-76-3      | 86        |
| 5       | Heptadecane, 2-methyl- | 254 C18H38   | 001560-89-0      | 76        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF033120\  
Data File : BF119655.D  
Acq On : 31 Mar 2020 16:47  
Operator : MA/SJ  
Sample : L2042-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-5.5-6.0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.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 |
| Butane, 2-methoxy... | 2.12  | 4.3     | ng    | 421348   | 1                     | 6.83  | 1967940 | 20.0 |
| n-Hexadecanoic acid  | 11.90 | 13.6    | ng    | 1703530  | 4                     | 11.36 | 2509560 | 20.0 |
| Octadecanoic acid    | 12.69 | 8.0     | ng    | 692439   | 5                     | 14.01 | 1735330 | 20.0 |
| 10-Heneicosene (c,t) | 13.87 | 16.5    | ng    | 1433610  | 5                     | 14.01 | 1735330 | 20.0 |
| Heptacosane          | 14.49 | 2.5     | ng    | 217724   | 5                     | 14.01 | 1735330 | 20.0 |
| Triacontane          | 14.80 | 2.7     | ng    | 203702   | 6                     | 15.48 | 1494240 | 20.0 |
| Octacosane           | 15.14 | 4.1     | ng    | 306725   | 6                     | 15.48 | 1494240 | 20.0 |