

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121118\  
 Data File : BF111298.D  
 Acq On : 12 Dec 2018 1:33  
 Operator : JU/SJ  
 Sample : J6214-39  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TW-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-BF120818.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         | 4.040       | 322           | 332         | 337          | rBV      | 76825          | 110112        | 1.16%           | 0.157%        |
| 2         | 4.993       | 486           | 494         | 503          | rVB2     | 180156         | 267782        | 2.81%           | 0.383%        |
| 3         | 5.410       | 560           | 565         | 568          | rBV      | 4466708        | 3951040       | 41.47%          | 5.644%        |
| 4         | 6.422       | 733           | 737         | 746          | rBV2     | 3242125        | 3125783       | 32.81%          | 4.465%        |
| 5         | 6.569       | 757           | 762         | 765          | rBV      | 7643741        | 7374715       | 77.41%          | 10.535%       |
| 6         | 6.622       | 769           | 771         | 777          | rVB      | 170160         | 159365        | 1.67%           | 0.228%        |
| 7         | 6.792       | 797           | 800         | 804          | rBV      | 2172950        | 1938397       | 20.35%          | 2.769%        |
| 8         | 6.957       | 823           | 828         | 831          | rBV      | 7007398        | 6733136       | 70.67%          | 9.619%        |
| 9         | 7.357       | 890           | 896         | 899          | rBV      | 6139365        | 6053795       | 63.54%          | 8.648%        |
| 10        | 7.981       | 999           | 1002        | 1010         | rBV      | 133334         | 138324        | 1.45%           | 0.198%        |
| 11        | 8.075       | 1015          | 1018        | 1022         | rBV      | 2827767        | 2482380       | 26.06%          | 3.546%        |
| 12        | 9.157       | 1197          | 1202        | 1205         | rBV      | 10394716       | 9527190       | 100.00%         | 13.610%       |
| 13        | 9.833       | 1313          | 1317        | 1327         | rBV      | 3029453        | 2902344       | 30.46%          | 4.146%        |
| 14        | 10.622      | 1446          | 1451        | 1454         | rBV      | 5452223        | 5312211       | 55.76%          | 7.589%        |
| 15        | 10.986      | 1510          | 1513        | 1517         | rBV      | 203934         | 182082        | 1.91%           | 0.260%        |
| 16        | 11.316      | 1565          | 1569        | 1572         | rBV      | 2865043        | 2454679       | 25.76%          | 3.507%        |
| 17        | 11.851      | 1656          | 1660        | 1670         | rBV      | 2128656        | 2319194       | 24.34%          | 3.313%        |
| 18        | 12.557      | 1775          | 1780        | 1790         | rBV2     | 251149         | 424225        | 4.45%           | 0.606%        |
| 19        | 12.639      | 1790          | 1794        | 1801         | rBV      | 1451591        | 1409370       | 14.79%          | 2.013%        |
| 20        | 12.904      | 1834          | 1839        | 1843         | rBV      | 7448422        | 7610207       | 79.88%          | 10.872%       |
| 21        | 13.468      | 1933          | 1935        | 1941         | rVB2     | 125590         | 128919        | 1.35%           | 0.184%        |
| 22        | 13.810      | 1990          | 1993        | 2000         | rBV      | 739489         | 792256        | 8.32%           | 1.132%        |
| 23        | 13.951      | 2013          | 2017        | 2022         | rVB      | 2249824        | 2016963       | 21.17%          | 2.881%        |
| 24        | 14.810      | 2160          | 2163        | 2168         | rVB      | 333572         | 340310        | 3.57%           | 0.486%        |
| 25        | 15.068      | 2204          | 2207        | 2210         | rVB      | 97816          | 101756        | 1.07%           | 0.145%        |
| 26        | 15.392      | 2257          | 2262        | 2267         | rVB      | 1532491        | 1866245       | 19.59%          | 2.666%        |
| 27        | 15.862      | 2339          | 2342        | 2347         | rVB2     | 85940          | 120710        | 1.27%           | 0.172%        |
| 28        | 16.092      | 2378          | 2381        | 2392         | rVB2     | 77908          | 157687        | 1.66%           | 0.225%        |

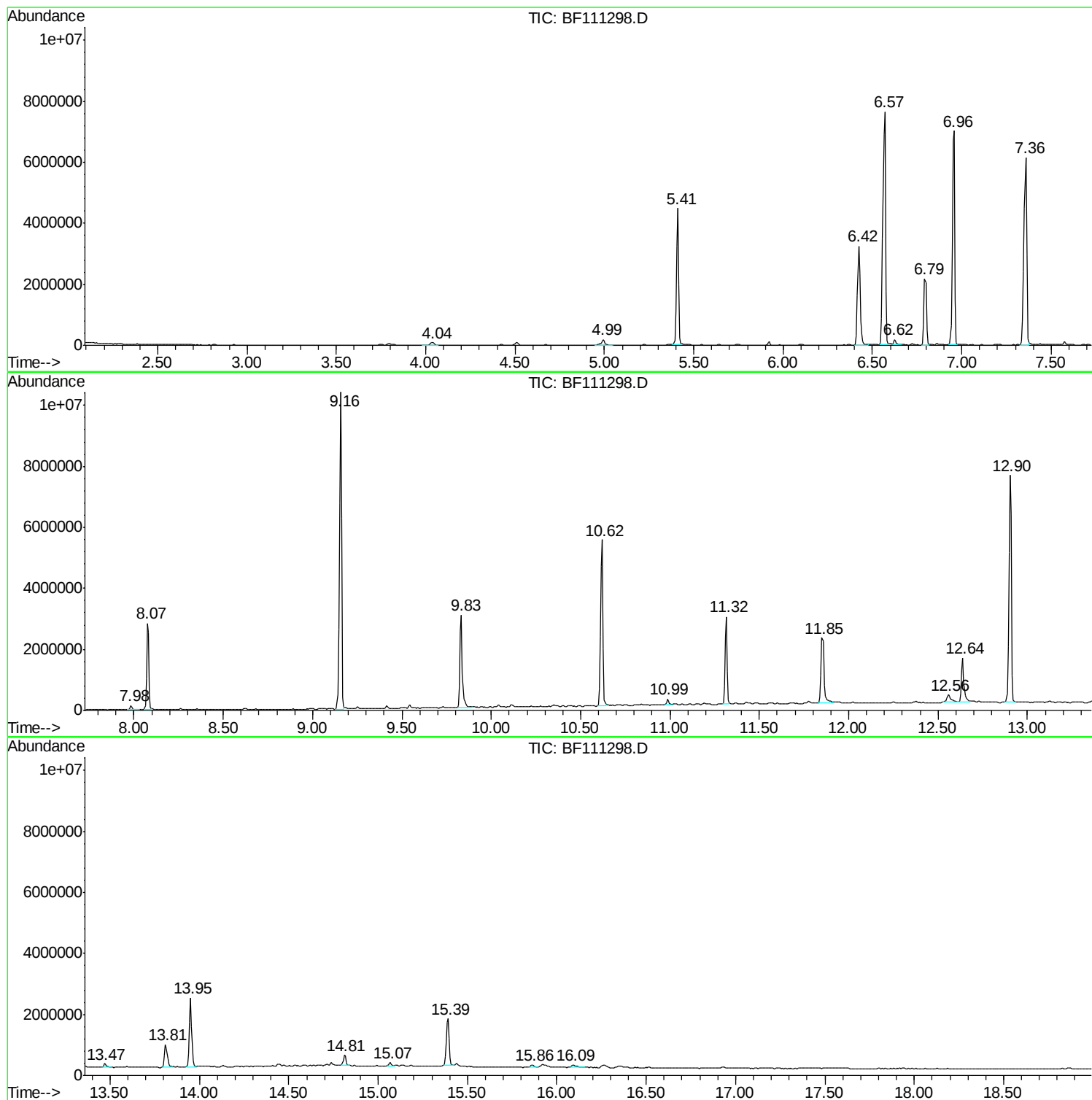
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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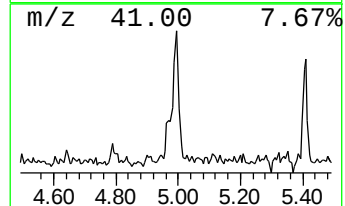
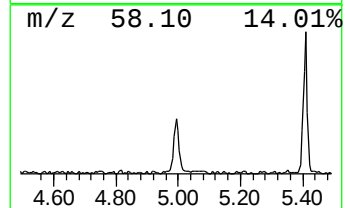
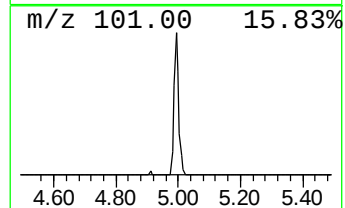
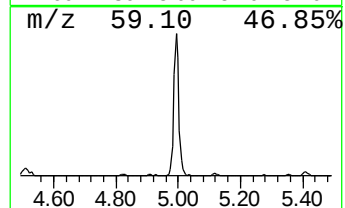
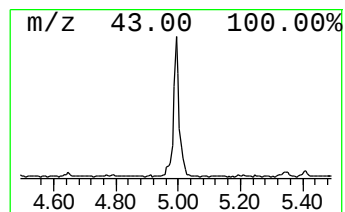
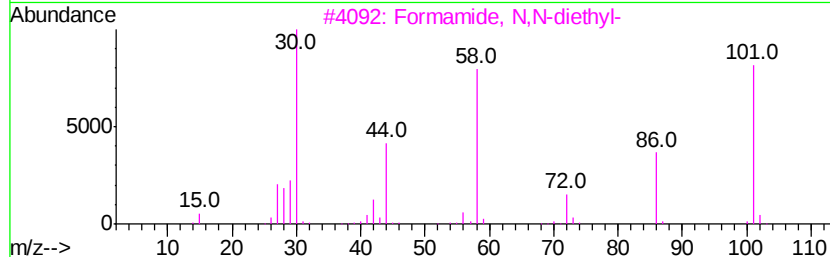
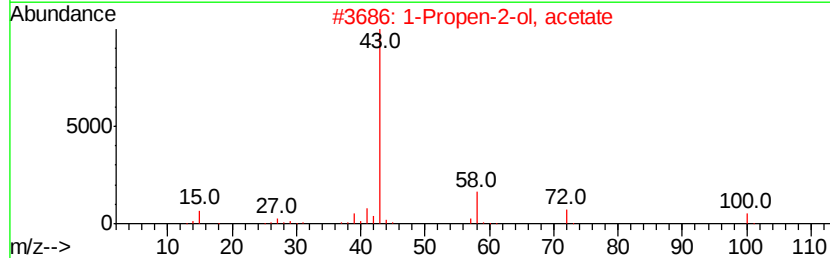
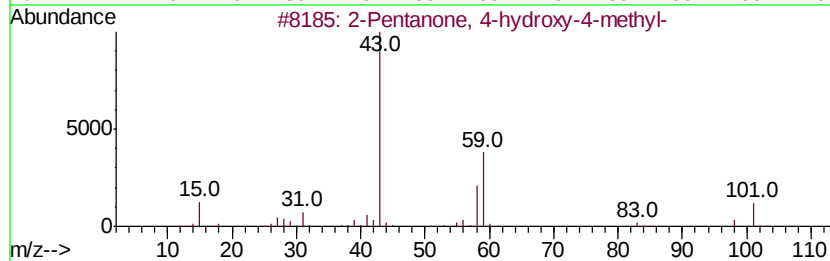
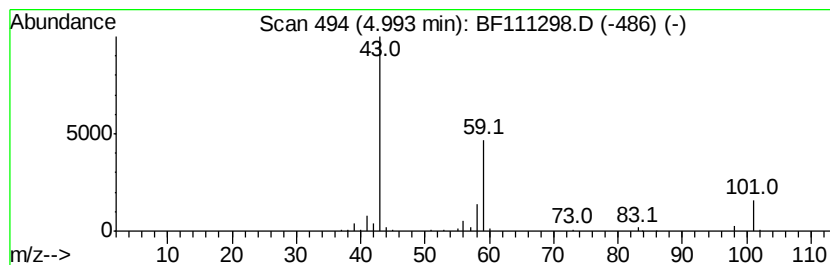
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.99 | 2.76 ng | 267782 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2    |    |   | 1-Propen-2-ol, acetate              | 100 | C5H8O2  | 000108-22-5 | 10   |
| 3    |    |   | Formamide, N,N-diethyl-             | 101 | C5H11NO | 000617-84-5 | 9    |
| 4    |    |   | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3 | 053951-43-2 | 9    |
| 5    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 9    |



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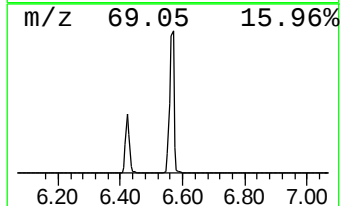
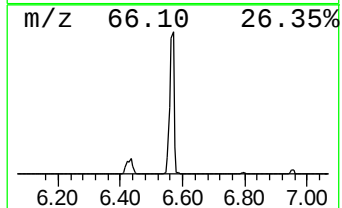
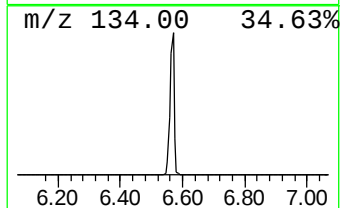
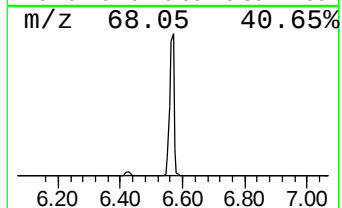
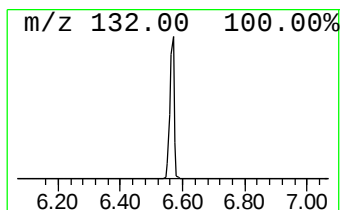
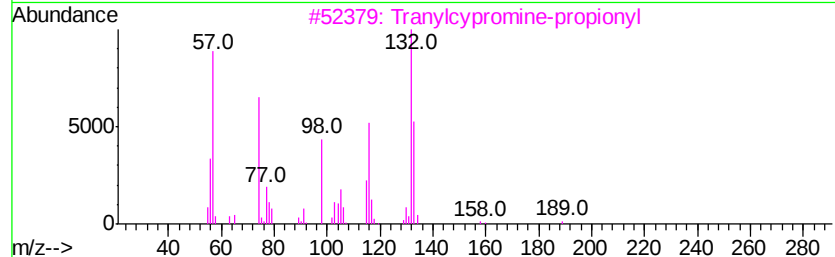
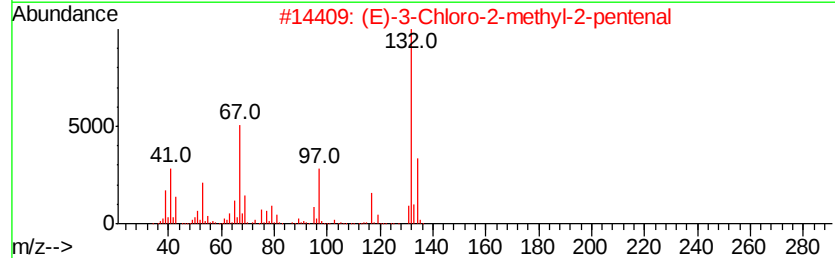
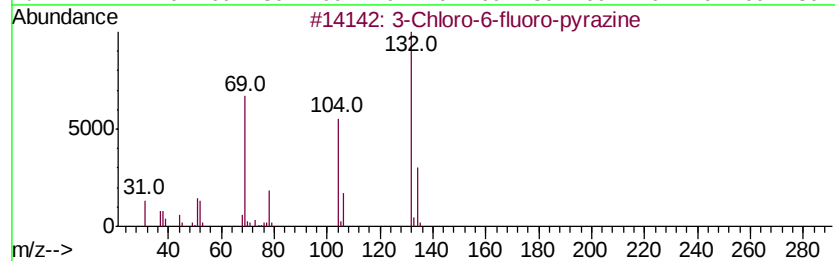
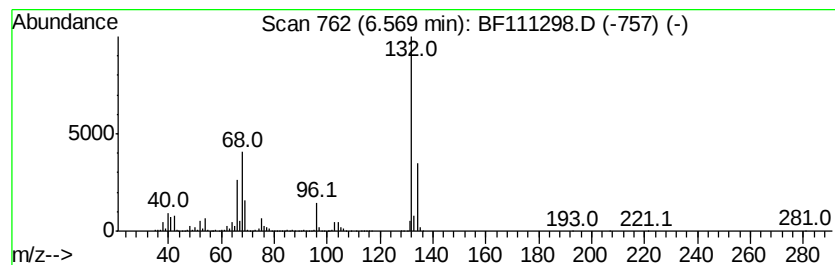
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.57 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.57 | 76.09 ng | 7374720 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |



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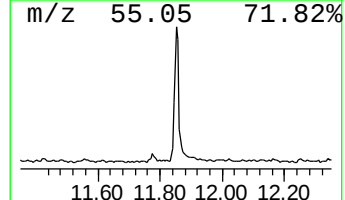
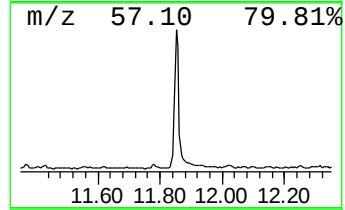
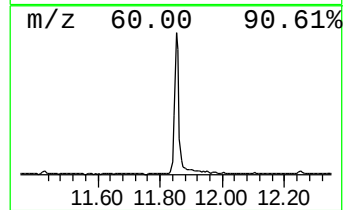
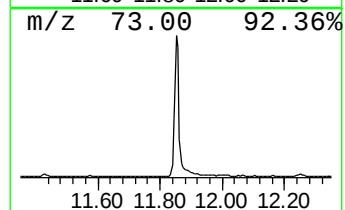
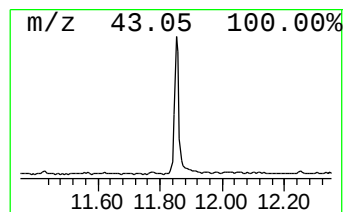
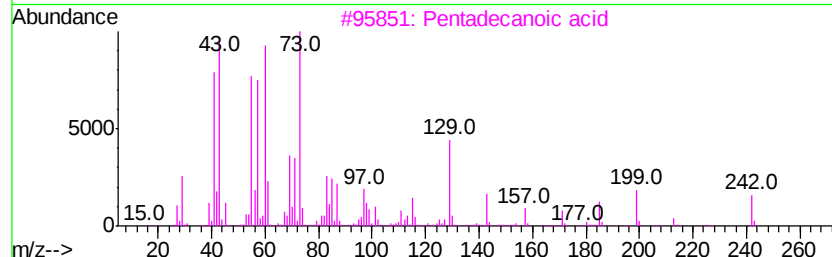
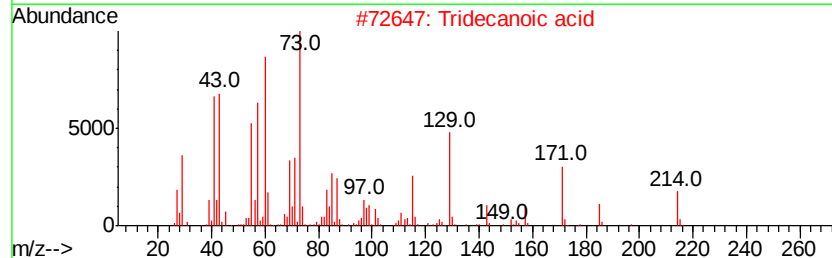
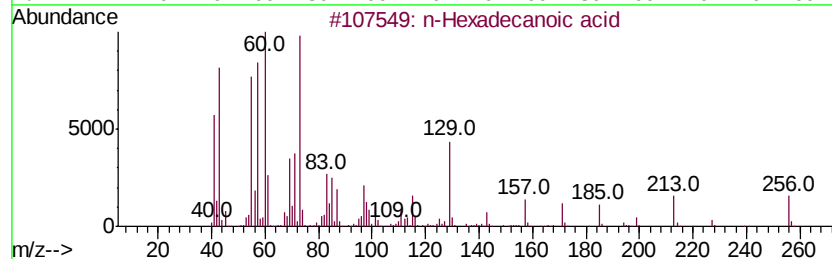
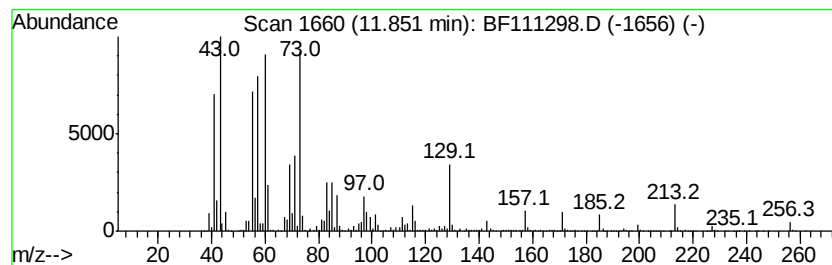
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.85 | 18.90 ng | 2319190 | Phenanthrene-d10 | 11.32 |

| 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 | 94   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 90   |
| 4       |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 87   |
| 5       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 86   |



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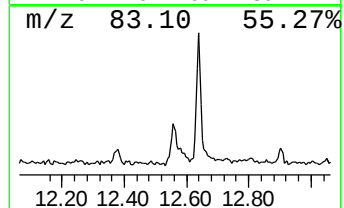
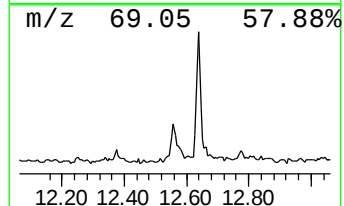
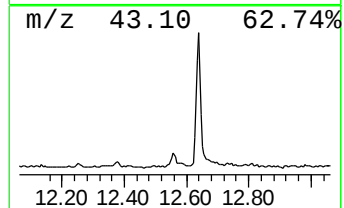
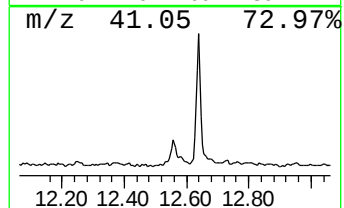
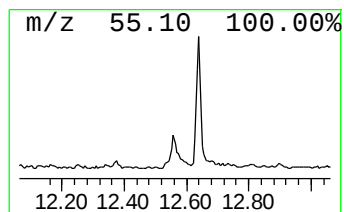
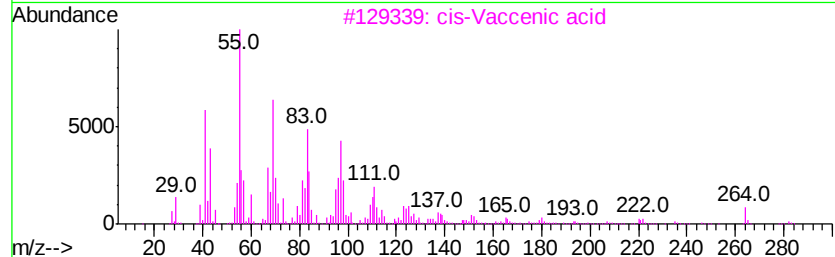
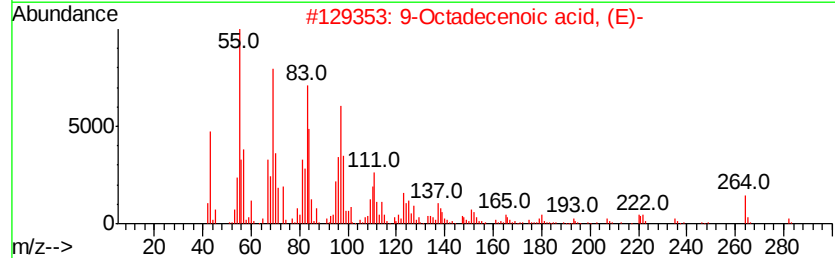
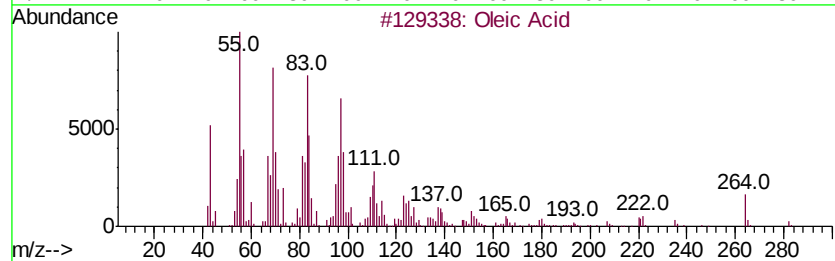
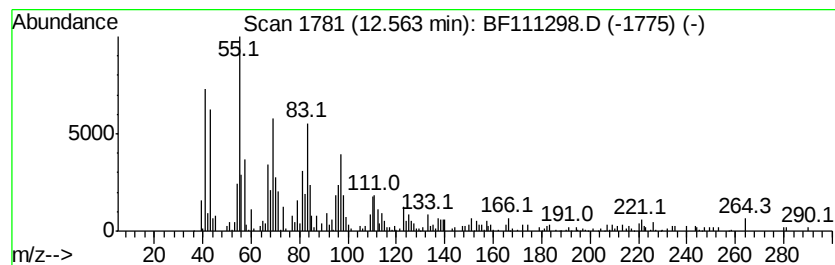
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\*\*\*\*\*  
Peak Number 5 Oleic Acid Concentration Rank 7

| R.T.      | EstConc                    | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------|--------|------------------|-------------|------|
| 12.56     | 3.46 ng                    | 424225 | Phenanthrene-d10 | 11.32       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | Oleic Acid                 | 282    | C18H34O2         | 000112-80-1 | 99   |
| 2         | 9-Octadecenoic acid, (E)-  | 282    | C18H34O2         | 000112-79-8 | 98   |
| 3         | cis-Vaccenic acid          | 282    | C18H34O2         | 000506-17-2 | 95   |
| 4         | trans-13-Octadecenoic acid | 282    | C18H34O2         | 000693-71-0 | 95   |
| 5         | cis-13-Octadecenoic acid   | 282    | C18H34O2         | 013126-39-1 | 94   |



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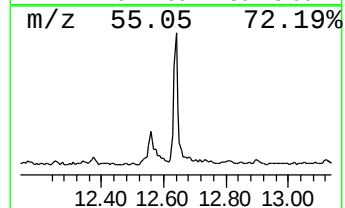
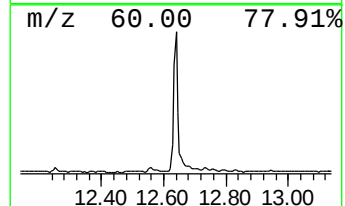
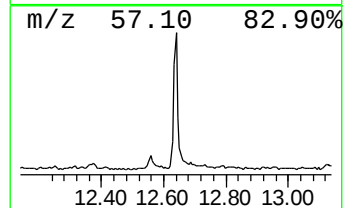
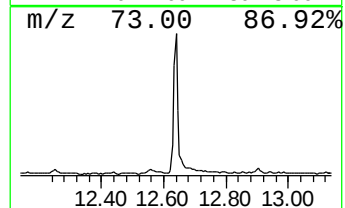
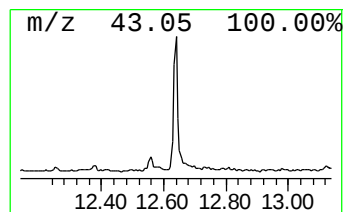
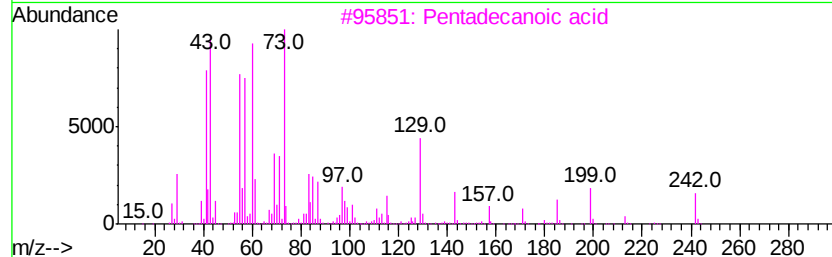
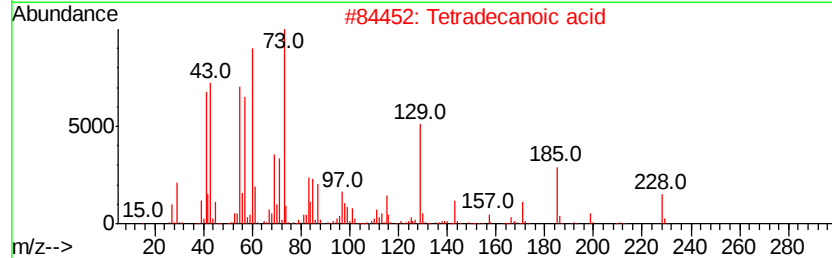
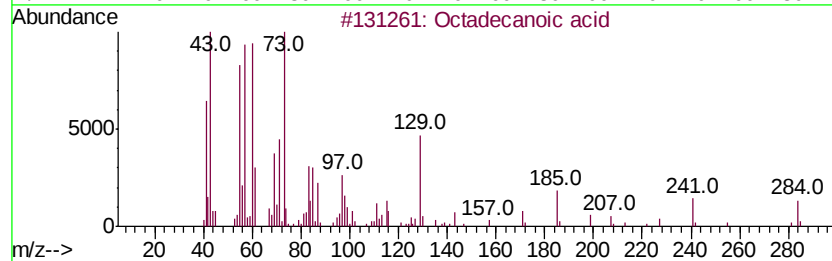
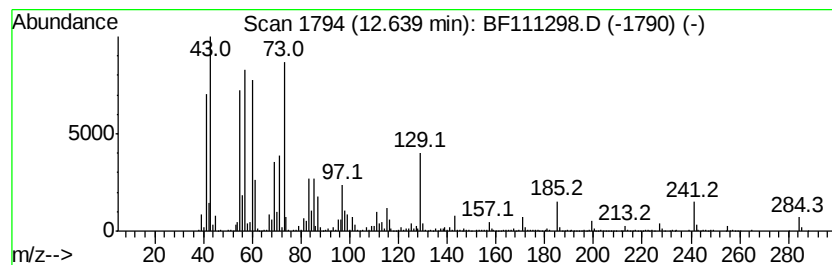
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.64 | 13.98 ng | 1409370 | Chrysene-d12     | 13.95 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 94   |
| 3    |    | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91   |
| 4    |    | Tridecanoic acid   | 214 | C13H26O2 | 000638-53-9 | 76   |
| 5    |    | n-Decanoic acid    | 172 | C10H20O2 | 000334-48-5 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121118\  
Data File : BF111298.D  
Acq On : 12 Dec 2018 1:33  
Operator : JU/SJ  
Sample : J6214-39  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

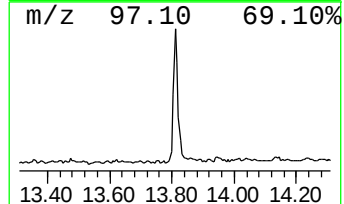
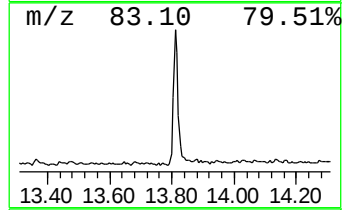
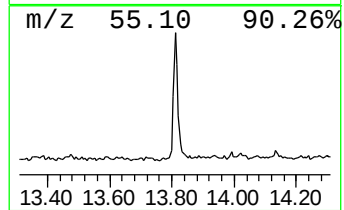
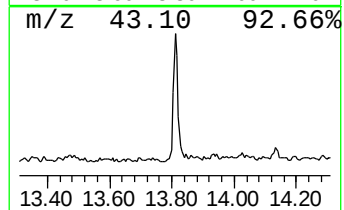
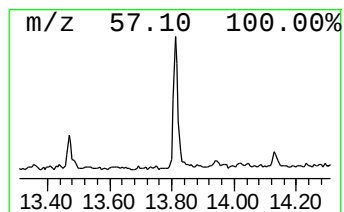
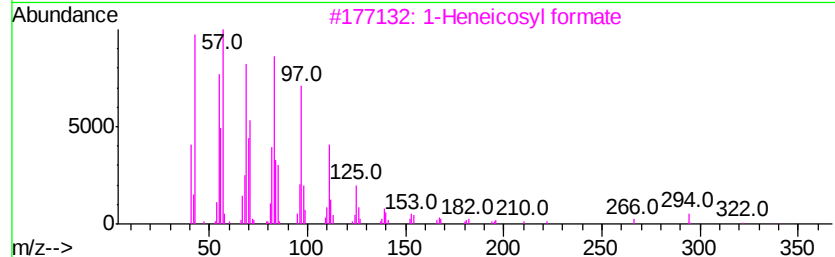
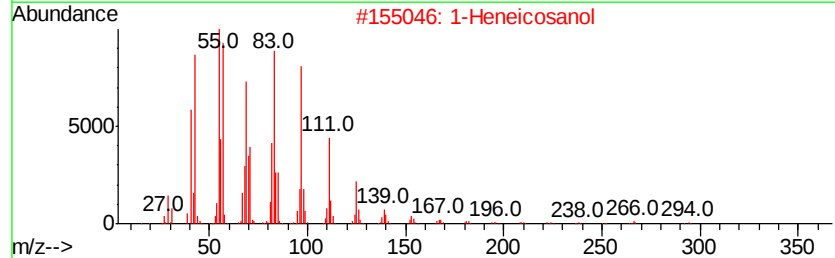
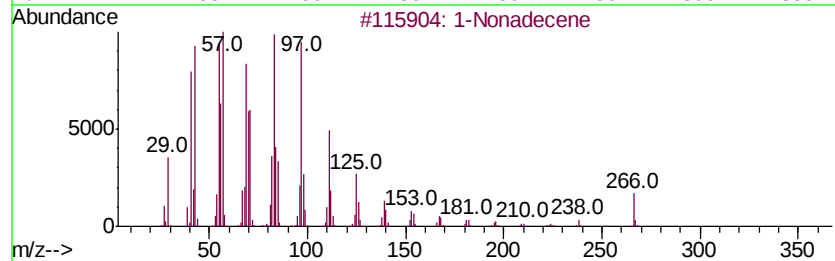
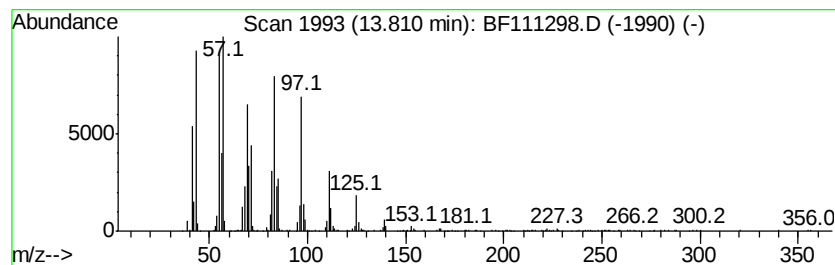
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 1-Nonadecene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.81 | 7.86 ng | 792256 | Chrysene-d12     | 13.95 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|----------------------|--------------|-----|----------|-------------|------|
| 1       | 1-Nonadecene         |              | 266 | C19H38   | 018435-45-5 | 95   |
| 2       | 1-Heneicosanol       |              | 312 | C21H44O  | 015594-90-8 | 94   |
| 3       | 1-Heneicosyl formate |              | 340 | C22H44O2 | 077899-03-7 | 94   |
| 4       | Behenic alcohol      |              | 326 | C22H46O  | 000661-19-8 | 91   |
| 5       | 5-Eicosene, (E)-     |              | 280 | C20H40   | 074685-30-6 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121118\  
Data File : BF111298.D  
Acq On : 12 Dec 2018 1:33  
Operator : JU/SJ  
Sample : J6214-39  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

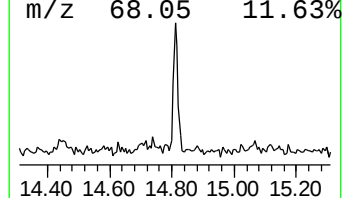
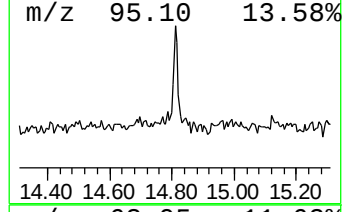
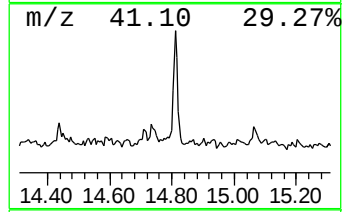
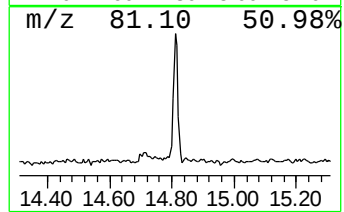
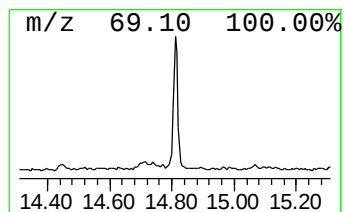
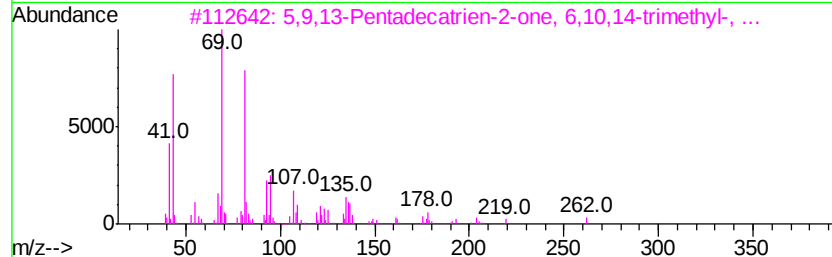
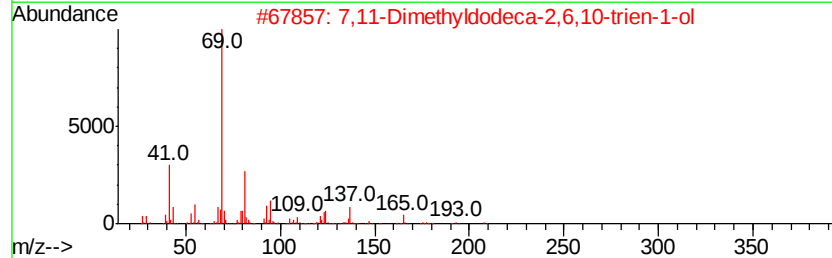
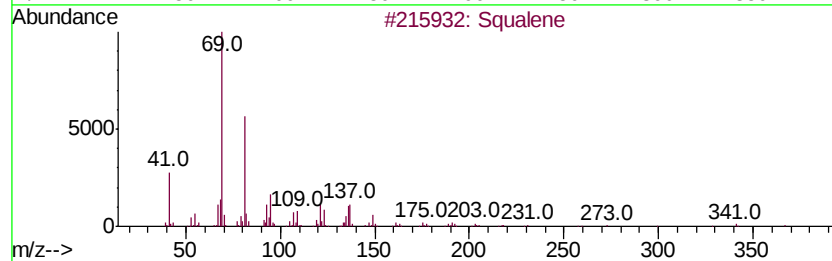
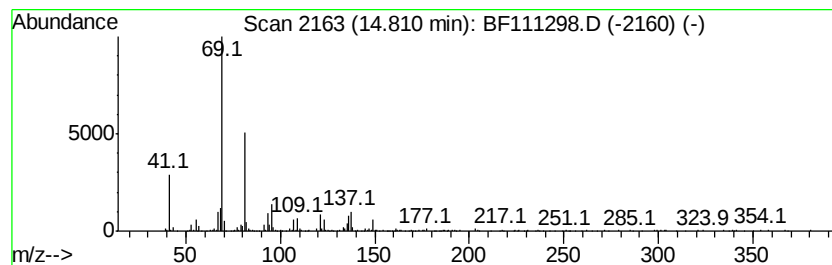
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Squalene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.81 | 3.65 ng | 340310 | Perylene-d12     | 15.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Squalene                            | 410 | C30H50   | 000111-02-4  | 90   |
| 2    |    | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O  | 125529-10-4  | 72   |
| 3    |    | 5,9,13-Pentadecatrien-2-one, 6,1... | 262 | C18H30O  | 001117-52-8  | 64   |
| 4    |    | Trideca-1,7,11-triene-1,1-dicarb... | 270 | C18H26N2 | 1000161-46-0 | 53   |
| 5    |    | 1,5-Heptadiene, 3,3,6-trimethyl-    | 138 | C10H18   | 035387-63-4  | 52   |



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Data File : BF111298.D  
Acq On : 12 Dec 2018 1:33  
Operator : JU/SJ  
Sample : J6214-39  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120818.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 |
| 2-Pentanone, 4-hy... | 4.99  | 2.8     | ng    | 267782   | 1                     | 6.80  | 1938400 | 20.0 |
| unknown6.57          | 6.57  | 76.1    | ng    | 7374720  | 1                     | 6.80  | 1938400 | 20.0 |
| n-Hexadecanoic acid  | 11.85 | 18.9    | ng    | 2319190  | 4                     | 11.32 | 2454680 | 20.0 |
| Oleic Acid           | 12.56 | 3.5     | ng    | 424225   | 4                     | 11.32 | 2454680 | 20.0 |
| Octadecanoic acid    | 12.64 | 14.0    | ng    | 1409370  | 5                     | 13.95 | 2016960 | 20.0 |
| 1-Nonadecene         | 13.81 | 7.9     | ng    | 792256   | 5                     | 13.95 | 2016960 | 20.0 |
| Squalene             | 14.81 | 3.6     | ng    | 340310   | 6                     | 15.39 | 1866250 | 20.0 |