

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061617\  
 Data File : BF095952.D  
 Acq On : 16 Jun 2017 13:15  
 Operator : SJ/MA  
 Sample : I3661-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FT-265434-265578-COMP

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:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.222       | 614           | 618         | 649          | rBV      | 249932         | 653741        | 43.20%          | 5.948%        |
| 2         | 6.904       | 901           | 904         | 914          | rBV      | 264174         | 549201        | 36.29%          | 4.997%        |
| 3         | 6.987       | 914           | 918         | 938          | rVB      | 500585         | 948332        | 62.66%          | 8.629%        |
| 4         | 7.316       | 970           | 974         | 989          | rBV      | 253956         | 339342        | 22.42%          | 3.088%        |
| 5         | 7.557       | 1010          | 1015        | 1033         | rBV      | 738059         | 985641        | 65.12%          | 8.968%        |
| 6         | 8.239       | 1126          | 1131        | 1151         | rBV      | 509092         | 728956        | 48.16%          | 6.633%        |
| 7         | 9.351       | 1316          | 1320        | 1332         | rBV      | 368191         | 464573        | 30.70%          | 4.227%        |
| 8         | 11.128      | 1616          | 1622        | 1642         | rVB      | 1161937        | 1513461       | 100.00%         | 13.771%       |
| 9         | 12.169      | 1794          | 1799        | 1808         | rBV2     | 386936         | 509086        | 33.64%          | 4.632%        |
| 10        | 13.469      | 2016          | 2020        | 2039         | rVB      | 390567         | 543212        | 35.89%          | 4.943%        |
| 11        | 14.563      | 2202          | 2206        | 2215         | rBV2     | 394276         | 500678        | 33.08%          | 4.556%        |
| 12        | 15.586      | 2374          | 2380        | 2396         | rBV2     | 65893          | 114678        | 7.58%           | 1.043%        |
| 13        | 16.574      | 2540          | 2548        | 2558         | rBV4     | 23163          | 58735         | 3.88%           | 0.534%        |
| 14        | 16.692      | 2561          | 2568        | 2578         | rVV      | 103934         | 170954        | 11.30%          | 1.556%        |
| 15        | 16.945      | 2605          | 2611        | 2615         | rBV      | 1257617        | 1405973       | 92.90%          | 12.793%       |
| 16        | 18.092      | 2800          | 2806        | 2810         | rBV2     | 14011          | 28105         | 1.86%           | 0.256%        |
| 17        | 18.180      | 2810          | 2821        | 2829         | rVV      | 126328         | 276732        | 18.28%          | 2.518%        |
| 18        | 18.286      | 2835          | 2839        | 2850         | rBV      | 379834         | 532029        | 35.15%          | 4.841%        |
| 19        | 19.156      | 2978          | 2987        | 2994         | rVB7     | 25833          | 83865         | 5.54%           | 0.763%        |
| 20        | 19.409      | 3025          | 3030        | 3032         | rBV5     | 11551          | 20150         | 1.33%           | 0.183%        |
| 21        | 19.956      | 3119          | 3123        | 3134         | rBV      | 252652         | 338209        | 22.35%          | 3.077%        |
| 22        | 20.062      | 3136          | 3141        | 3144         | rBV3     | 11626          | 15538         | 1.03%           | 0.141%        |
| 23        | 20.439      | 3201          | 3205        | 3211         | rVB7     | 17791          | 30451         | 2.01%           | 0.277%        |
| 24        | 20.756      | 3256          | 3259        | 3265         | rVB6     | 12122          | 16690         | 1.10%           | 0.152%        |
| 25        | 21.250      | 3336          | 3343        | 3352         | rVB5     | 65155          | 161760        | 10.69%          | 1.472%        |

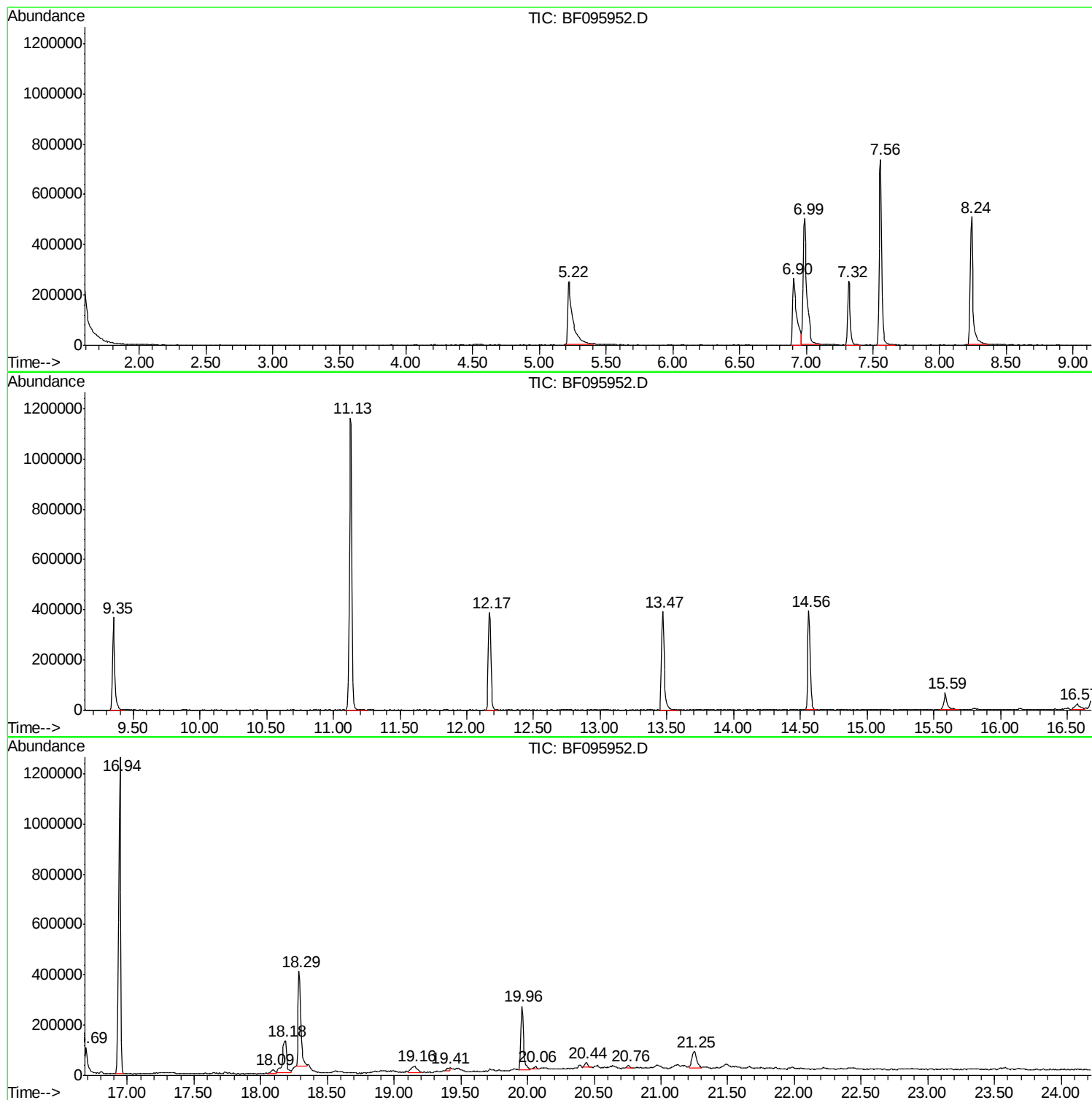
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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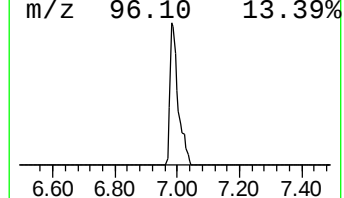
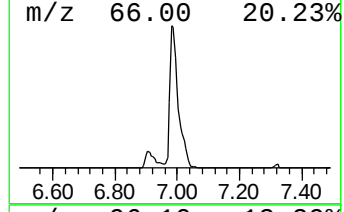
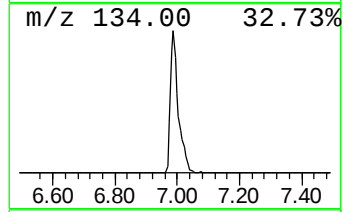
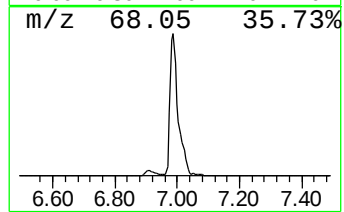
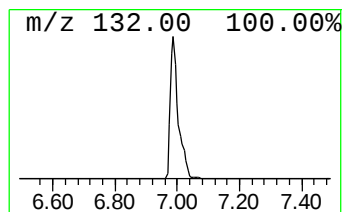
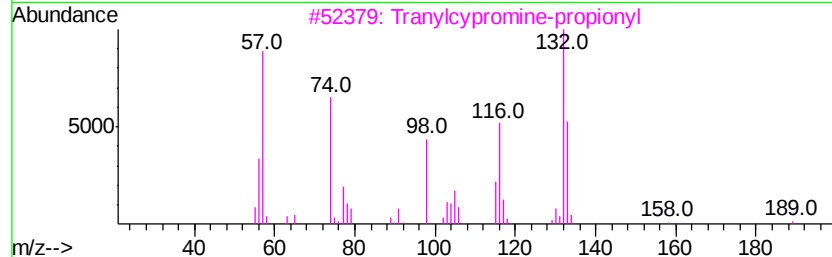
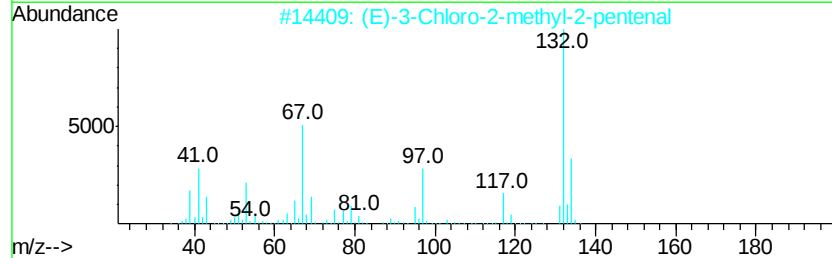
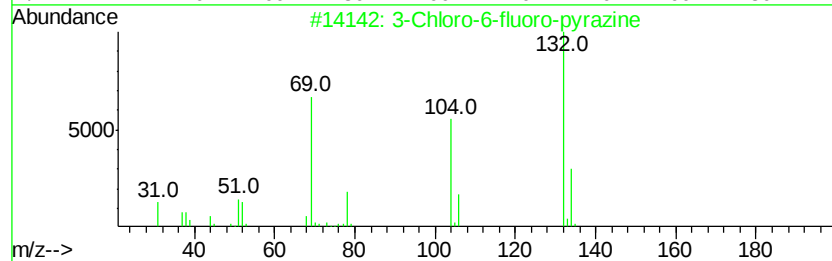
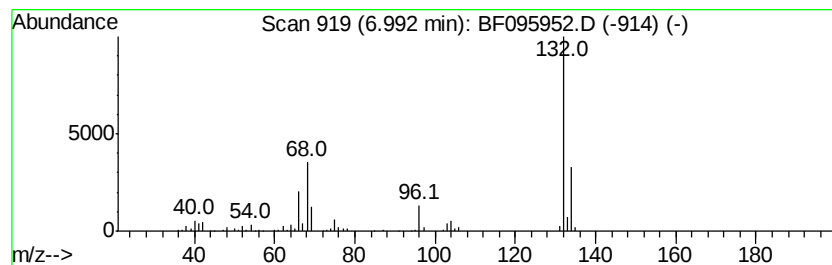
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.99 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.99 | 55.89 ng | 948332 | 1,4-Dichlorobenzene-d4 | 7.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

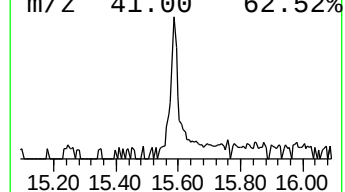
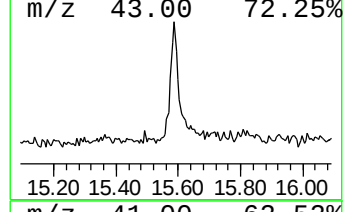
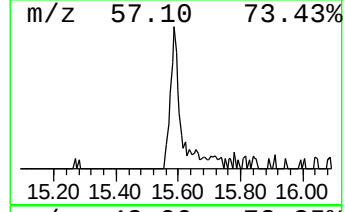
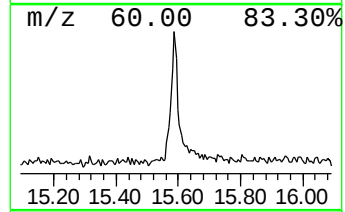
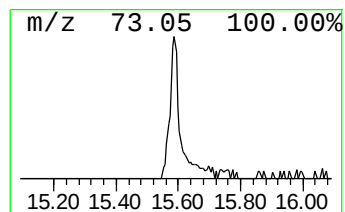
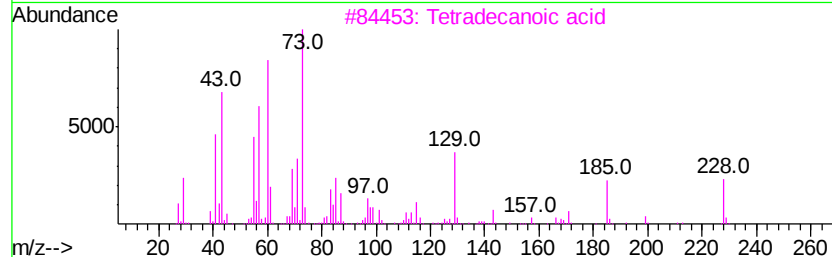
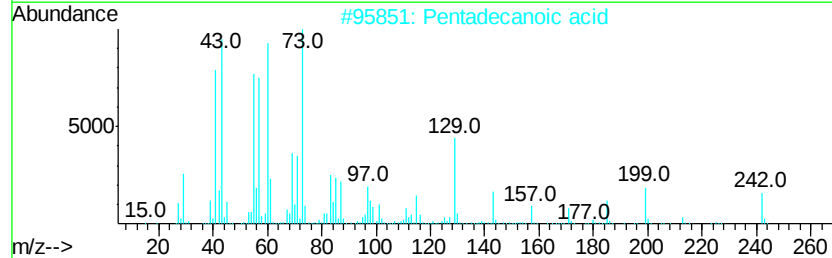
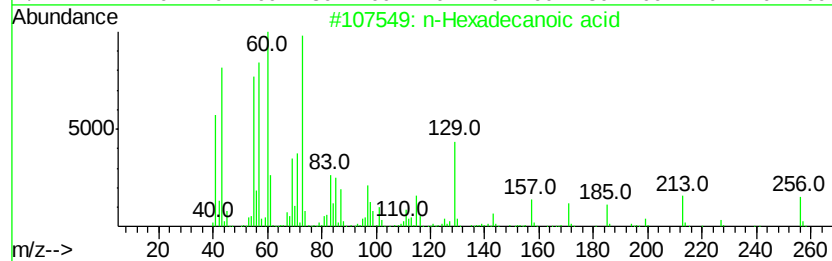
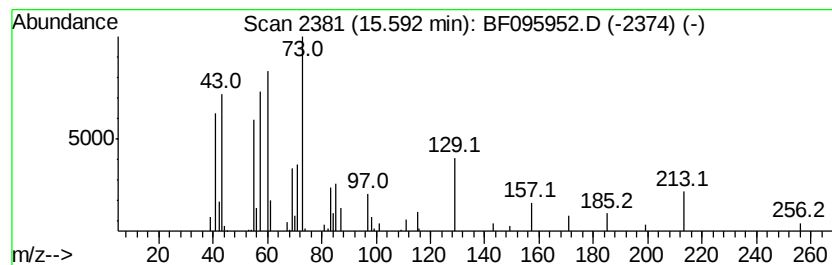
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.59 | 4.58 ng | 114678 | Phenanthrene-d10 | 14.56 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 83   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 83   |
| 4       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 50   |
| 5       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 38   |



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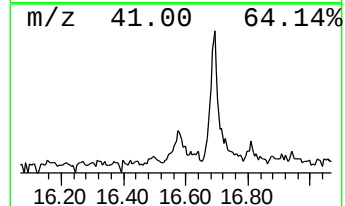
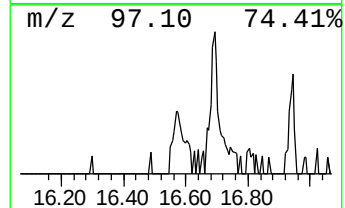
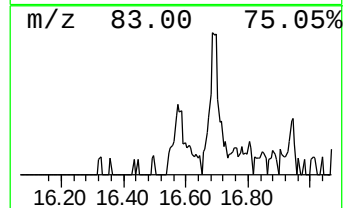
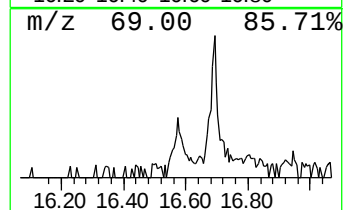
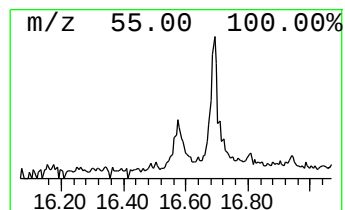
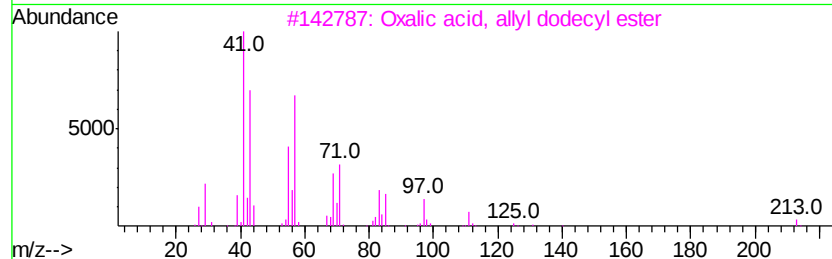
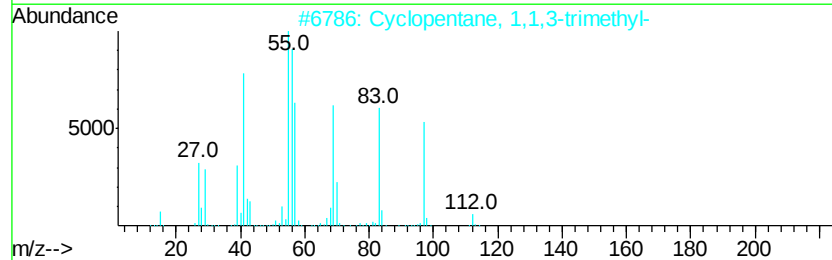
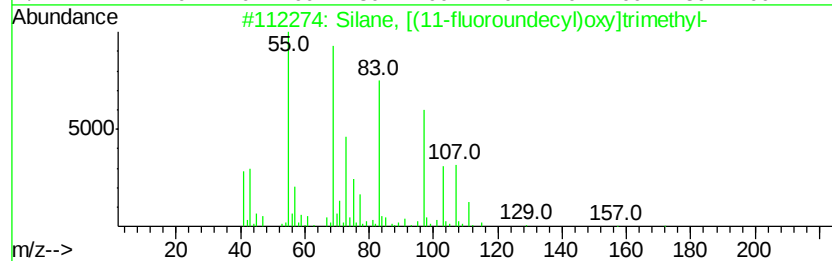
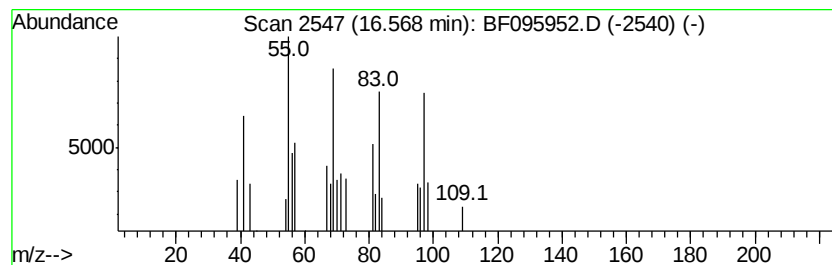
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown16.57 Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.57 | 2.21 ng | 58735 | Chrysene-d12     | 18.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Silane, [(11-fluoroundecyl)oxy]t... | 262 | C14H31FOSi | 026305-81-7  | 47   |
| 2    |    | Cyclopentane, 1,1,3-trimethyl-      | 112 | C8H16      | 004516-69-2  | 37   |
| 3    |    | Oxalic acid, allyl dodecyl ester    | 298 | C17H30O4   | 1000309-24-0 | 27   |
| 4    |    | Cyclopropane, 1-ethyl-1-methyl-     | 84  | C6H12      | 053778-43-1  | 25   |
| 5    |    | 2-Decene, 7-methyl-, (Z)-           | 154 | C11H22     | 074630-23-2  | 25   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
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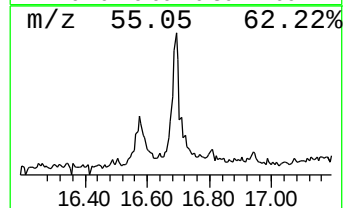
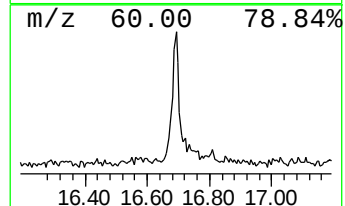
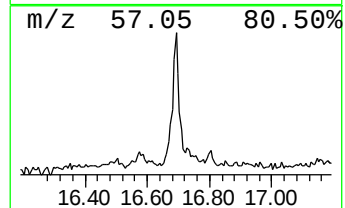
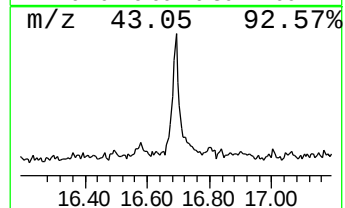
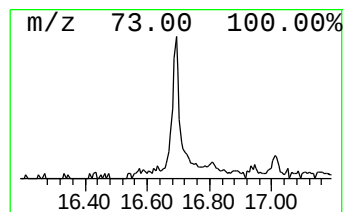
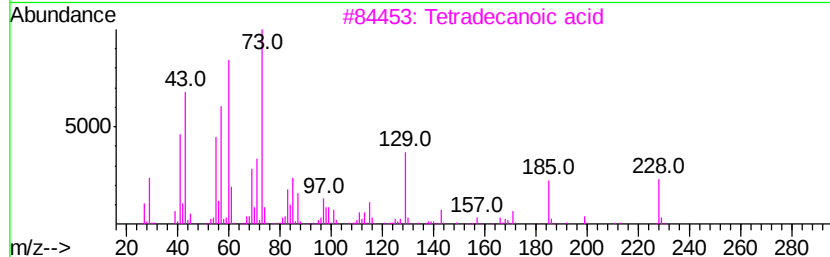
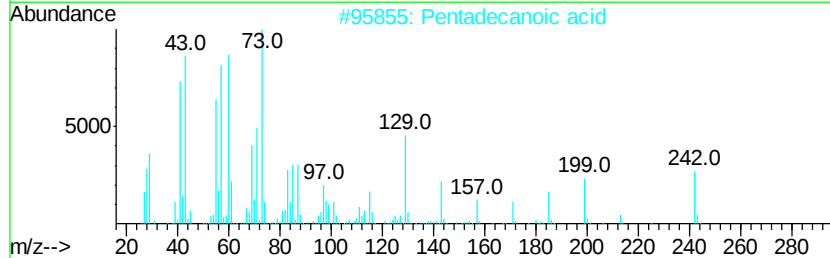
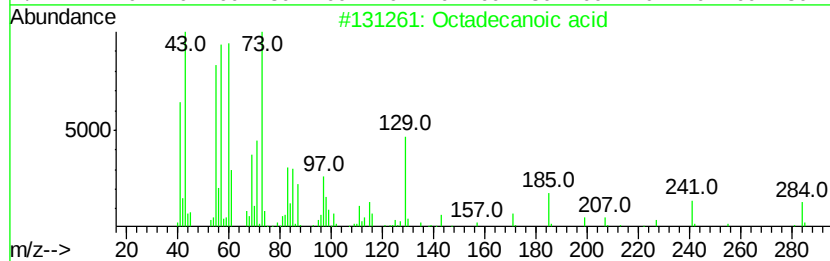
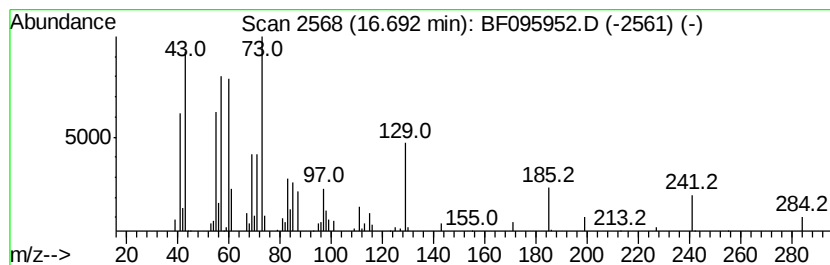
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.69 | 6.43 ng | 170954 | Chrysene-d12     | 18.29 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | Octadecanoic acid                   | 284 | C18H36O2 | 000057-11-4  | 99   |
| 2       |   | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2  | 89   |
| 3       |   | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8  | 72   |
| 4       |   | Oxalic acid, propyl tetradecyl e... | 328 | C19H36O4 | 1000309-26-7 | 38   |
| 5       |   | 4-Pentadecanol                      | 228 | C15H32O  | 109212-91-1  | 18   |



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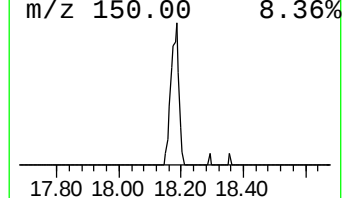
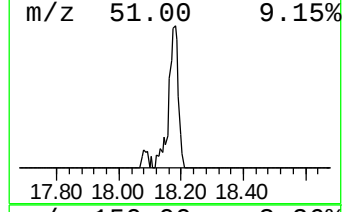
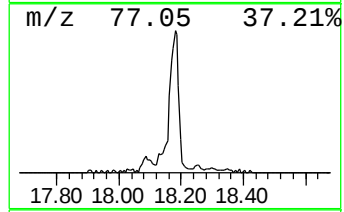
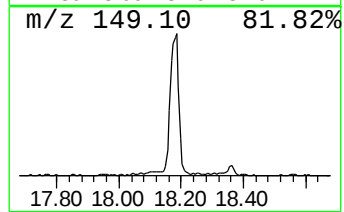
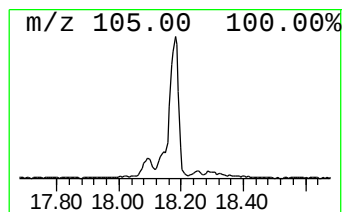
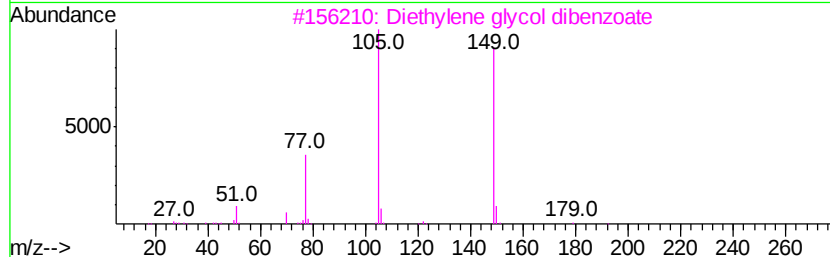
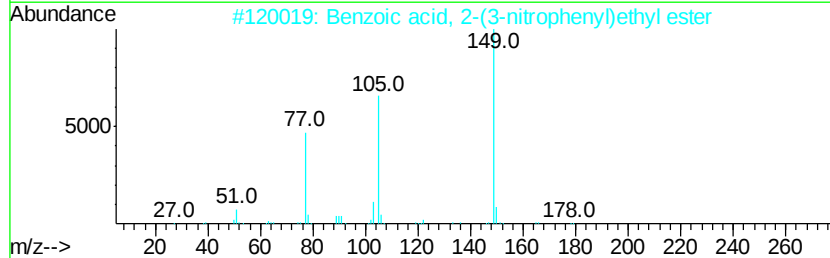
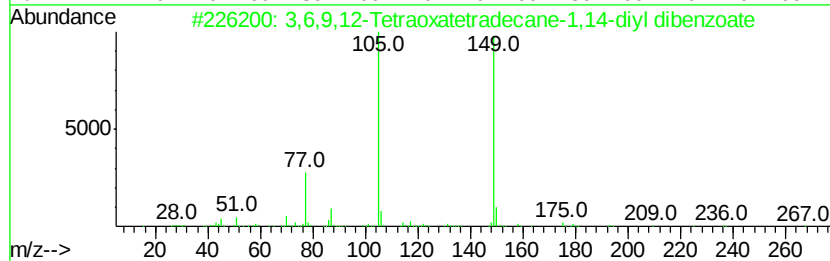
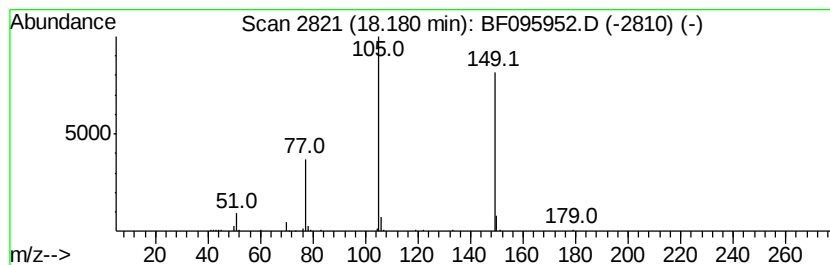
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 3,6,9,12-Tetraoxatetradecan... Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.18 | 10.40 ng | 276732 | Chrysene-d12     | 18.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3,6,9,12-Tetraoxatetradecane-1,1... | 446 | C24H30O8  | 1000366-97-0 | 83   |
| 2    |    | Benzoic acid, 2-(3-nitrophenyl)e... | 271 | C15H13NO4 | 1000368-22-4 | 78   |
| 3    |    | Diethylene glycol dibenzoate        | 314 | C18H18O5  | 000120-55-8  | 78   |
| 4    |    | 1,3-Dioxolane, 2-(methoxymethyl)... | 194 | C11H14O3  | 1000156-71-2 | 74   |
| 5    |    | 2,5,8,11-Tetraoxatridecan-13-yl ... | 312 | C16H24O6  | 1000366-96-7 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061617\  
Data File : BF095952.D  
Acq On : 16 Jun 2017 13:15  
Operator : SJ/MA  
Sample : I3661-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FT-265434-265578-COMP

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

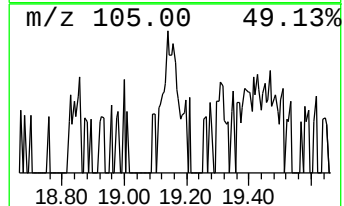
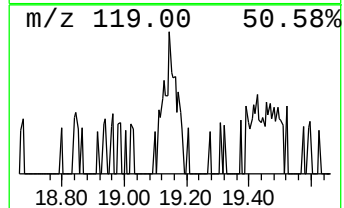
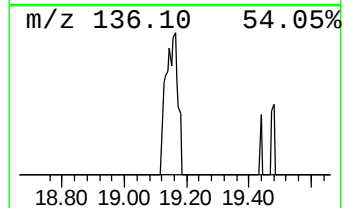
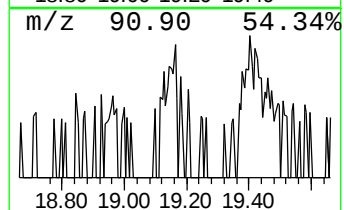
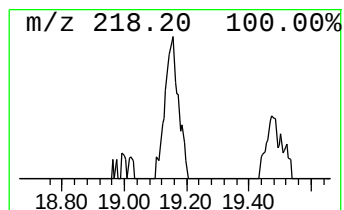
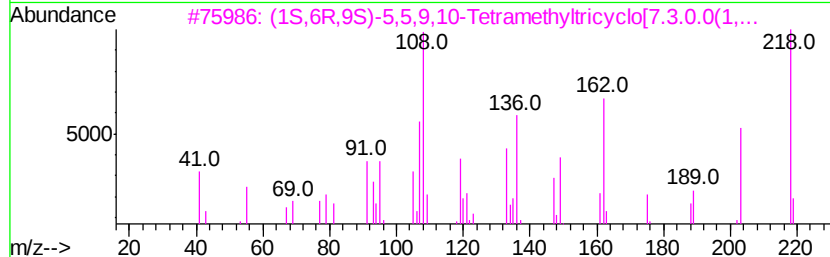
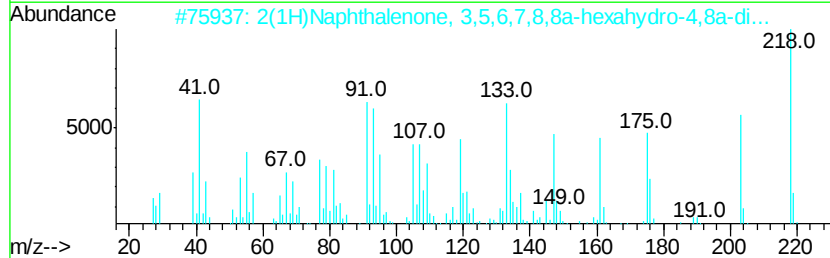
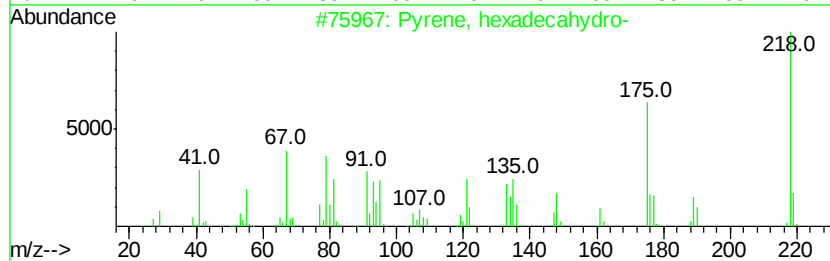
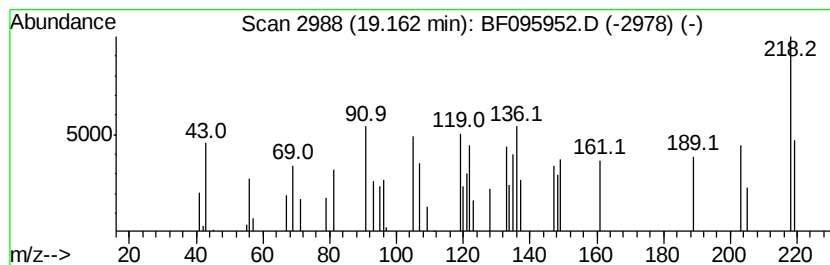
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Pyrene, hexadecahydro- Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.16 | 4.96 ng | 83865 | Perylene-d12     | 19.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Pyrene, hexadecahydro-              | 218 | C16H26  | 002435-85-0  | 55   |
| 2    |    | 2(1H)Naphthalenone, 3,5,6,7,8,8a... | 218 | C15H22O | 1000188-66-5 | 53   |
| 3    |    | (1S,6R,9S)-5,5,9,10-Tetramethylt... | 218 | C16H26  | 1000298-97-8 | 50   |
| 4    |    | 5(1H)-Azulenone, 2,4,6,7,8,8a-he... | 218 | C15H22O | 006754-66-1  | 46   |
| 5    |    | 1,2,3,4-Tetrahydro-1-phenyl-1,2,... | 218 | C17H14  | 138089-69-7  | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061617\  
Data File : BF095952.D  
Acq On : 16 Jun 2017 13:15  
Operator : SJ/MA  
Sample : I3661-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FT-265434-265578-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

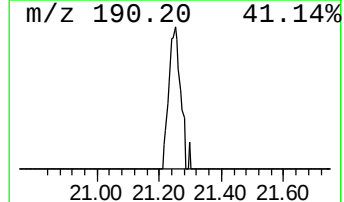
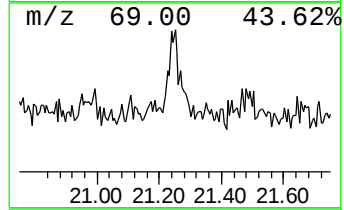
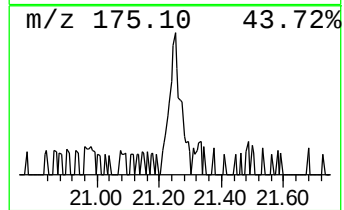
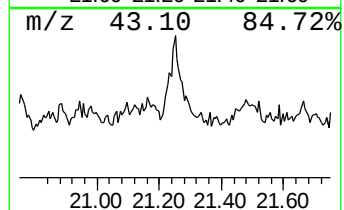
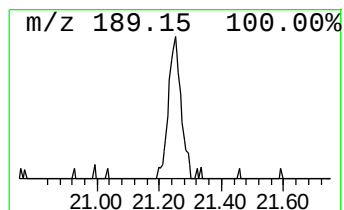
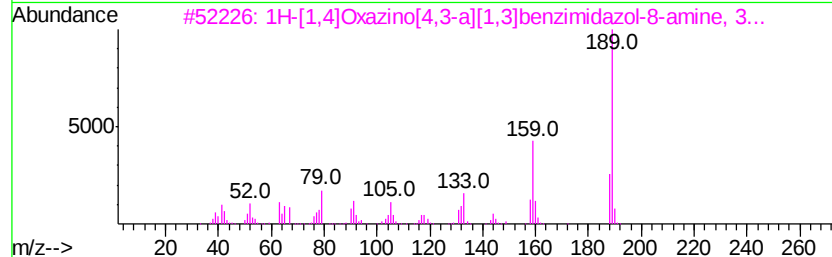
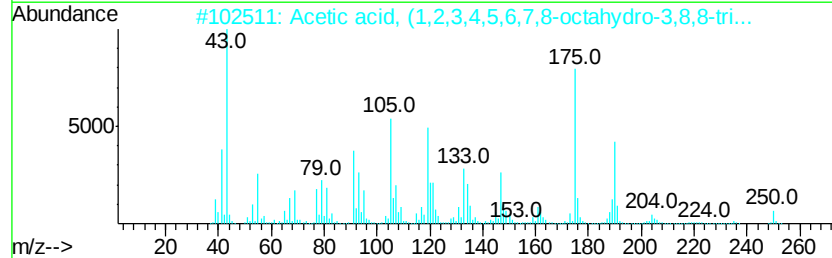
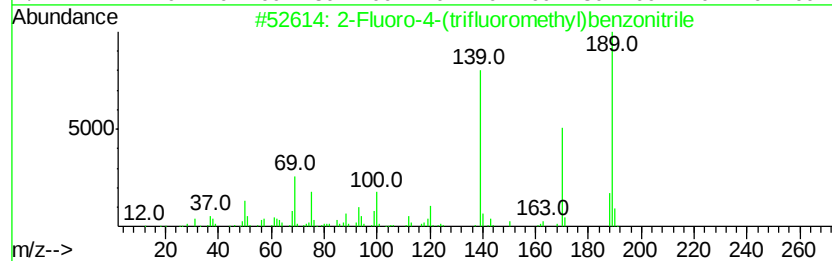
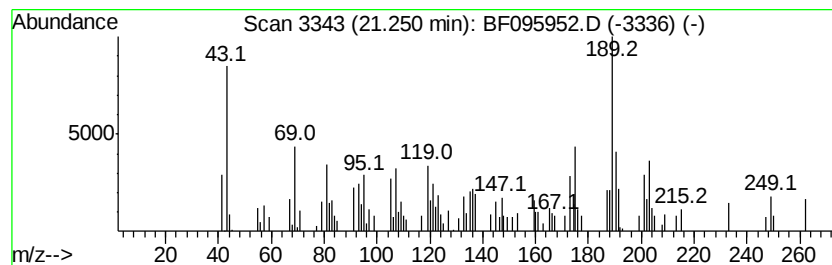
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown21.25 Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.25 | 9.57 ng | 161760 | Perylene-d12     | 19.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 2-Fluoro-4-(trifluoromethyl)benz... | 189 | C8H3F4N     | 146070-34-0  | 27   |
| 2    |    | Acetic acid, (1,2,3,4,5,6,7,8-oc... | 250 | C16H26O2    | 314773-27-8  | 25   |
| 3    |    | 1H-[1,4]Oxazino[4,3-a][1,3]benzi... | 189 | C10H11N3O   | 1000362-54-6 | 25   |
| 4    |    | 9-Methyltetracyclo[7.3.1.0(2.7)...  | 204 | C15H24      | 1000215-30-5 | 25   |
| 5    |    | Benzene-1,2-dicarbonitrile, 4-ch... | 247 | C12H10ClN3O | 309735-19-1  | 22   |



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Data File : BF095952.D  
Acq On : 16 Jun 2017 13:15  
Operator : SJ/MA  
Sample : I3661-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FT-265434-265578-COMP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.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 |
| unknown6.99          | 6.99  | 55.9    | ng    | 948332   | 1                     | 7.32  | 339342 | 20.0 |
| n-Hexadecanoic acid  | 15.59 | 4.6     | ng    | 114678   | 4                     | 14.56 | 500678 | 20.0 |
| unknown16.57         | 16.57 | 2.2     | ng    | 58735    | 5                     | 18.29 | 532029 | 20.0 |
| Octadecanoic acid    | 16.69 | 6.4     | ng    | 170954   | 5                     | 18.29 | 532029 | 20.0 |
| 3,6,9,12-Tetraoxa... | 18.18 | 10.4    | ng    | 276732   | 5                     | 18.29 | 532029 | 20.0 |
| Pyrene, hexadecah... | 19.16 | 5.0     | ng    | 83865    | 6                     | 19.96 | 338209 | 20.0 |
| unknown21.25         | 21.25 | 9.6     | ng    | 161760   | 6                     | 19.96 | 338209 | 20.0 |