

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052417\  
 Data File : BF095399.D  
 Acq On : 24 May 2017 20:35  
 Operator : SJ/MA  
 Sample : I3221-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EX-02

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-BF050217.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         | 4.342       | 403           | 409         | 418          | rVB5     | 14171          | 31675         | 1.18%           | 0.165%        |
| 2         | 5.095       | 533           | 537         | 555          | rBV      | 179983         | 560434        | 20.84%          | 2.912%        |
| 3         | 5.719       | 639           | 643         | 671          | rBV      | 1014018        | 2327085       | 86.54%          | 12.092%       |
| 4         | 7.295       | 907           | 911         | 927          | rBV      | 1168714        | 2172792       | 80.80%          | 11.290%       |
| 5         | 7.413       | 927           | 931         | 949          | rVB      | 1588142        | 2689146       | 100.00%         | 13.973%       |
| 6         | 7.748       | 984           | 988         | 999          | rVB      | 332593         | 431249        | 16.04%          | 2.241%        |
| 7         | 7.983       | 1023          | 1028        | 1047         | rBV      | 1499092        | 1913140       | 71.14%          | 9.941%        |
| 8         | 8.648       | 1137          | 1141        | 1163         | rBV      | 731097         | 1235890       | 45.96%          | 6.422%        |
| 9         | 9.772       | 1327          | 1332        | 1353         | rBV      | 295204         | 561781        | 20.89%          | 2.919%        |
| 10        | 11.542      | 1627          | 1633        | 1655         | rBV      | 1605286        | 2430136       | 90.37%          | 12.627%       |
| 11        | 12.242      | 1747          | 1752        | 1761         | rBV      | 102158         | 191011        | 7.10%           | 0.993%        |
| 12        | 12.601      | 1808          | 1813        | 1825         | rBV2     | 325274         | 538022        | 20.01%          | 2.796%        |
| 13        | 13.430      | 1951          | 1954        | 1957         | rBV      | 31367          | 42945         | 1.60%           | 0.223%        |
| 14        | 13.901      | 2029          | 2034        | 2046         | rBV      | 621720         | 1101790       | 40.97%          | 5.725%        |
| 15        | 15.007      | 2218          | 2222        | 2227         | rBV      | 306461         | 415961        | 15.47%          | 2.161%        |
| 16        | 15.965      | 2382          | 2385        | 2393         | rBV2     | 95665          | 153543        | 5.71%           | 0.798%        |
| 17        | 17.330      | 2612          | 2617        | 2621         | rBV      | 1478713        | 1782817       | 66.30%          | 9.264%        |
| 18        | 18.683      | 2844          | 2847        | 2853         | rVB      | 331458         | 416092        | 15.47%          | 2.162%        |
| 19        | 20.365      | 3130          | 3133        | 3138         | rVB      | 211040         | 249516        | 9.28%           | 1.297%        |

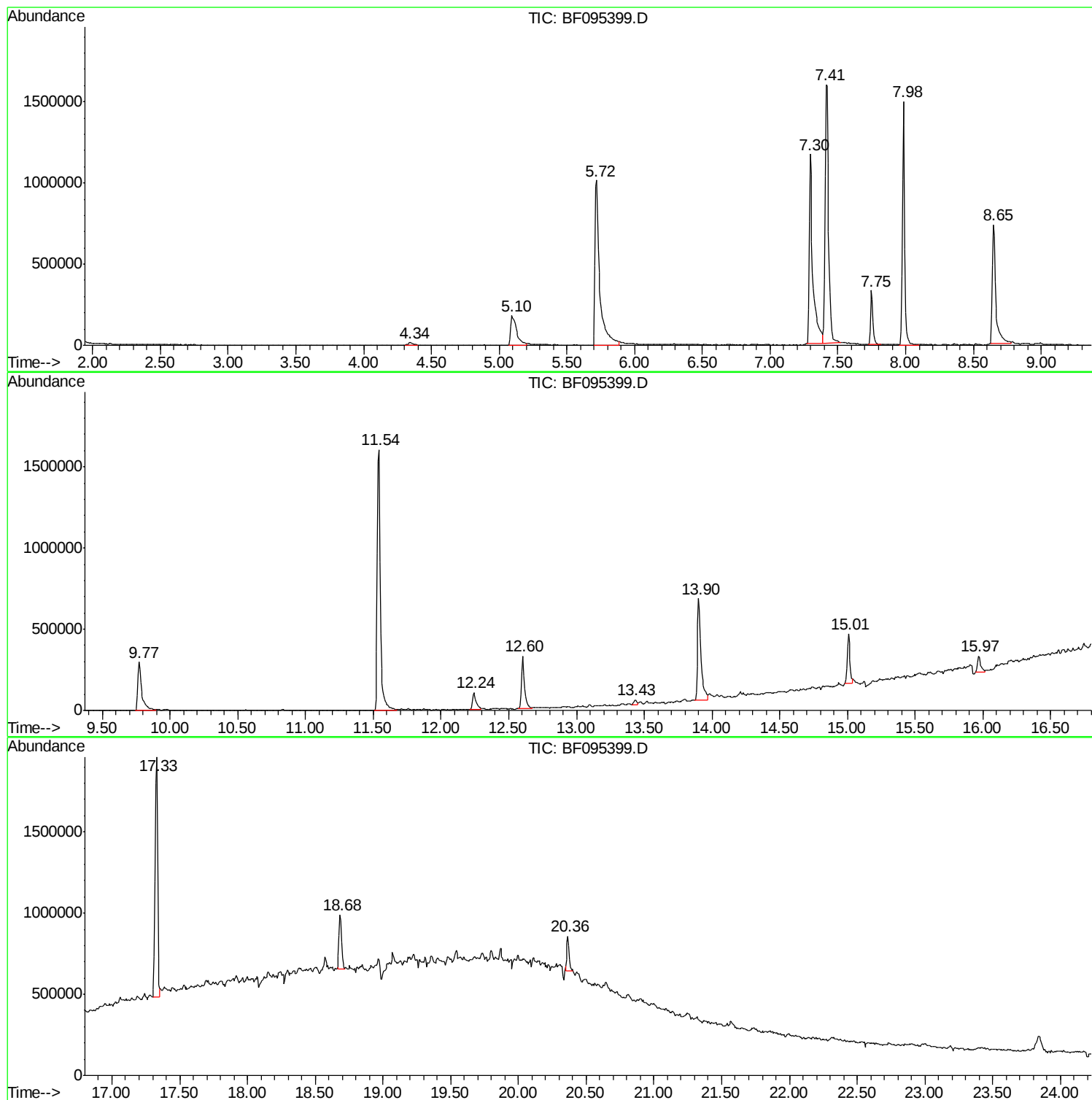
Sum of corrected areas: 19245025

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BNA\_F  
ClientSampled :  
EX-02

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.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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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

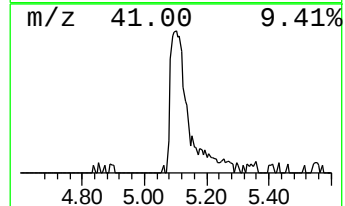
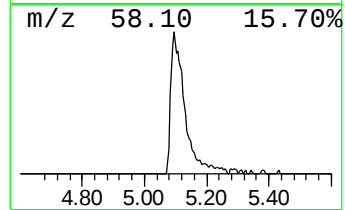
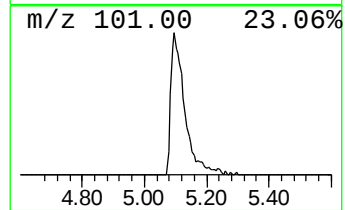
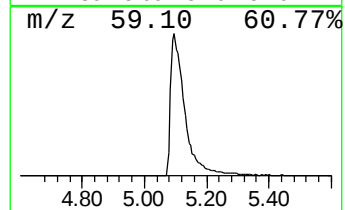
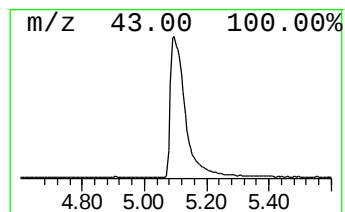
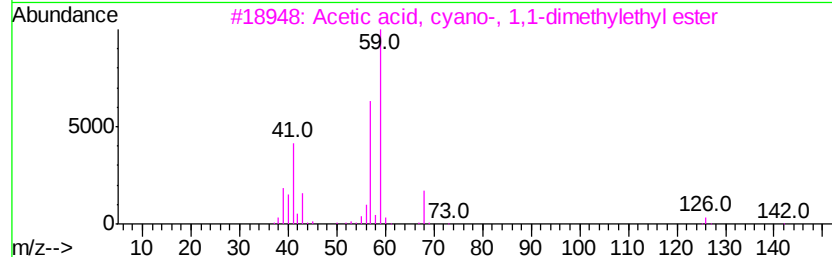
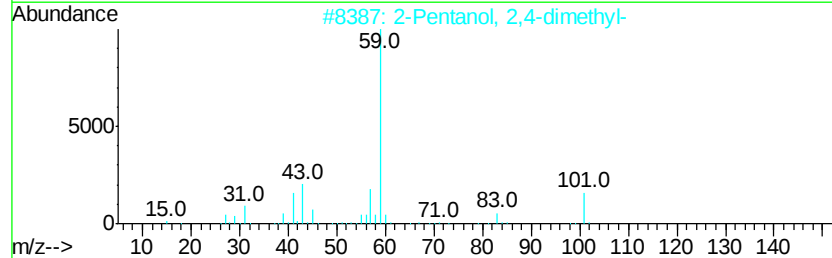
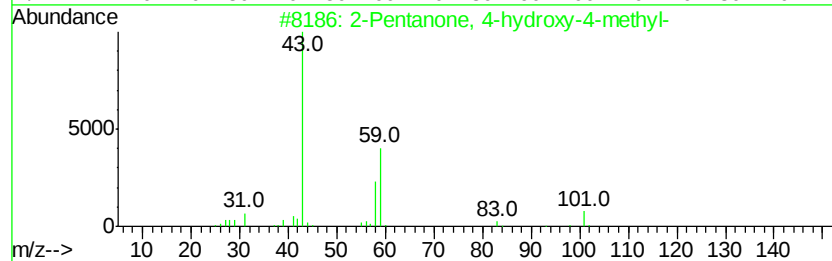
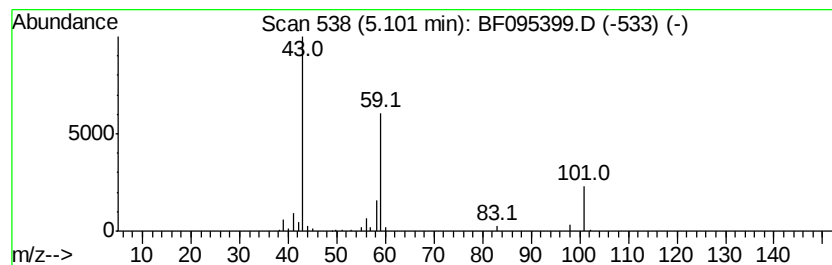
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.10 | 25.99 ng | 560434 | 1,4-Dichlorobenzene-d4 | 7.75 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | 2-Pentanol, 2,4-dimethyl-            | 116 | C7H16O   | 000625-06-9 | 38   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



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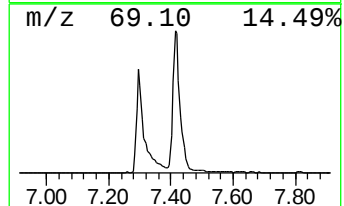
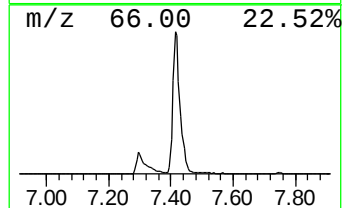
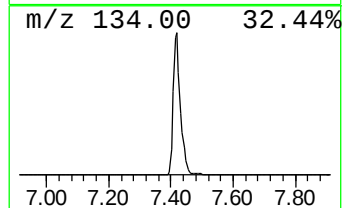
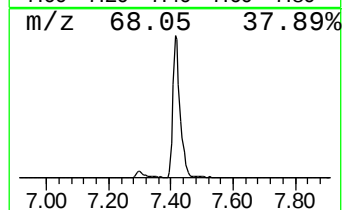
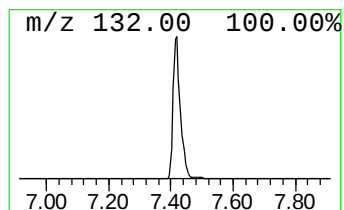
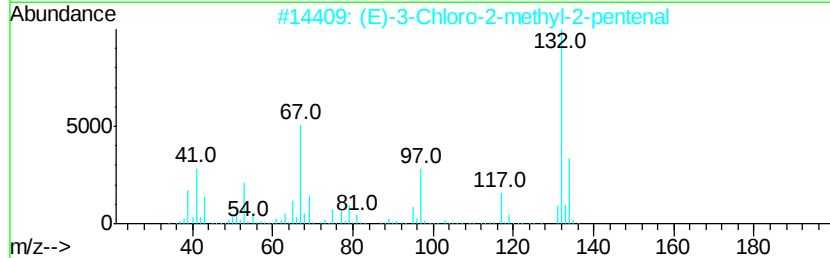
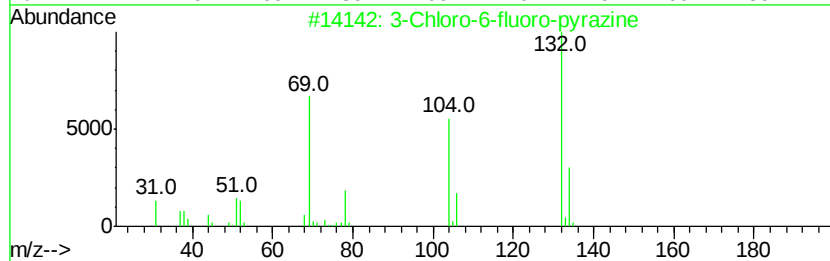
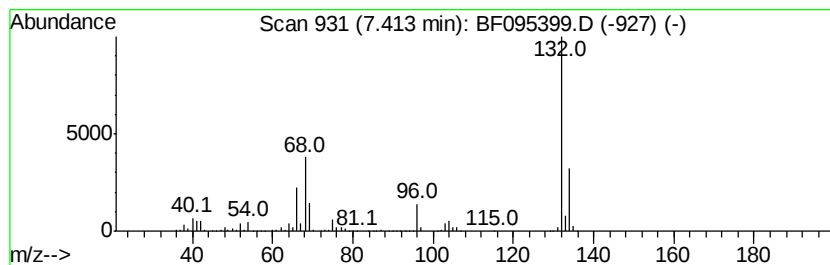
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
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TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 2 unknown7.41 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.41 | 124.71 ng | 2689150 | 1,4-Dichlorobenzene-d4 | 7.75 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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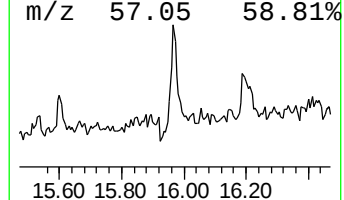
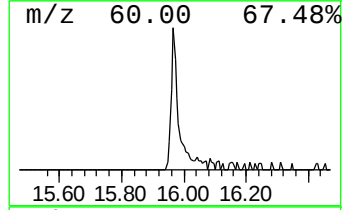
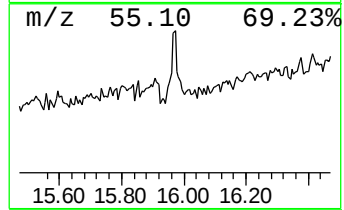
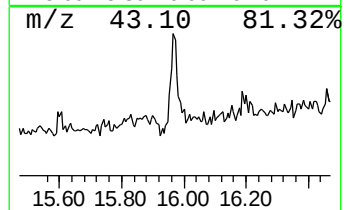
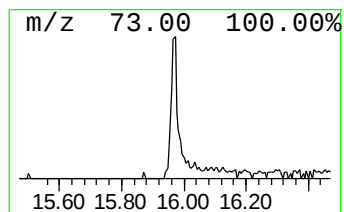
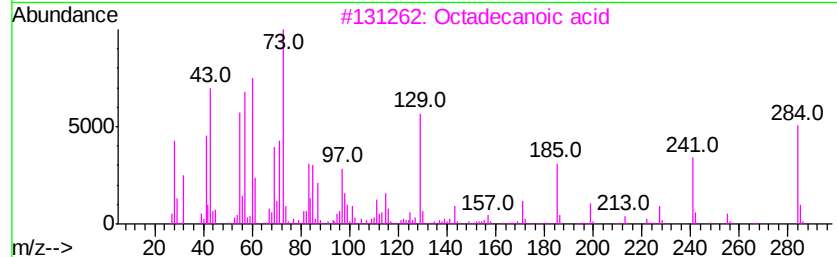
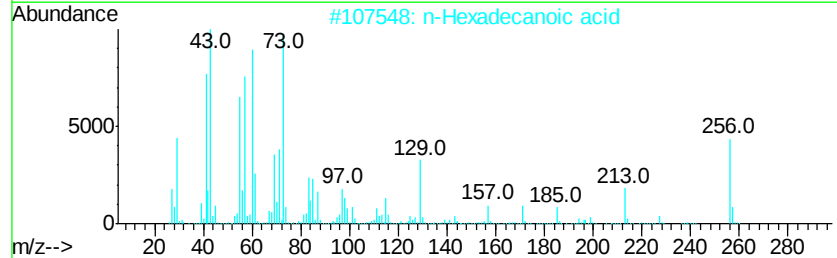
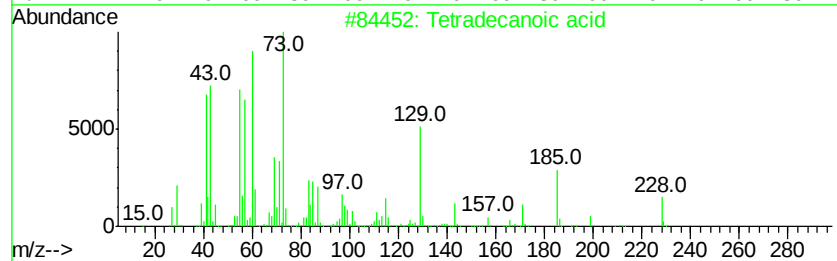
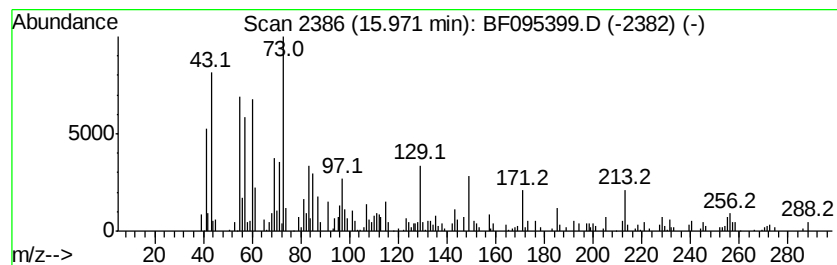
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ClientSampleId :  
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Peak Number 4 Tetradecanoic acid Concentration Rank 4

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 15.97     | 7.38 ng             | 153543 | Phenanthrene-d10 |             | 15.01 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 97    |
| 2         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 93    |
| 3         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 93    |
| 4         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 90    |
| 5         | Heptadecanoic acid  | 270    | C17H34O2         | 000506-12-7 | 90    |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.10  | 26.0    | ng    | 560434   | 1                     | 7.75  | 431249 | 20.0 |
| unknown7.41          | 7.41  | 124.7   | ng    | 2689150  | 1                     | 7.75  | 431249 | 20.0 |
| Tetradecanoic acid   | 15.97 | 7.4     | ng    | 153543   | 4                     | 15.01 | 415961 | 20.0 |