

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050917\  
 Data File : BF095030.D  
 Acq On : 9 May 2017 19:36  
 Operator : SJ/MA  
 Sample : I3014-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-RMW-1

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         | 5.013       | 520           | 523         | 533          | rBV      | 31324          | 69329         | 2.31%           | 0.366%        |
| 2         | 5.648       | 628           | 631         | 663          | rBV      | 511699         | 1068335       | 35.57%          | 5.646%        |
| 3         | 7.248       | 900           | 903         | 919          | rBV      | 256694         | 605998        | 20.18%          | 3.203%        |
| 4         | 7.366       | 919           | 923         | 940          | rVB      | 1442769        | 2071195       | 68.96%          | 10.946%       |
| 5         | 7.707       | 977           | 981         | 991          | rBV      | 405047         | 512785        | 17.07%          | 2.710%        |
| 6         | 7.942       | 1016          | 1021        | 1035         | rBV      | 1373233        | 1717197       | 57.17%          | 9.075%        |
| 7         | 8.607       | 1129          | 1134        | 1154         | rBV      | 1047593        | 1443854       | 48.07%          | 7.631%        |
| 8         | 9.730       | 1321          | 1325        | 1339         | rBV      | 456009         | 645522        | 21.49%          | 3.411%        |
| 9         | 11.507      | 1621          | 1627        | 1646         | rBV      | 2288507        | 2911742       | 96.94%          | 15.388%       |
| 10        | 12.201      | 1741          | 1745        | 1756         | rBV      | 30348          | 48165         | 1.60%           | 0.255%        |
| 11        | 12.560      | 1801          | 1806        | 1818         | rBV2     | 516031         | 737215        | 24.55%          | 3.896%        |
| 12        | 13.736      | 2001          | 2006        | 2020         | rBV      | 64366          | 88986         | 2.96%           | 0.470%        |
| 13        | 13.854      | 2020          | 2026        | 2041         | rBV      | 1107836        | 1580435       | 52.62%          | 8.352%        |
| 14        | 14.959      | 2209          | 2214        | 2231         | rVB      | 581437         | 779891        | 25.97%          | 4.122%        |
| 15        | 15.924      | 2374          | 2378        | 2388         | rBV2     | 74720          | 103059        | 3.43%           | 0.545%        |
| 16        | 17.018      | 2558          | 2564        | 2576         | rBV      | 89330          | 151960        | 5.06%           | 0.803%        |
| 17        | 17.289      | 2604          | 2610        | 2614         | rBV      | 2527099        | 3003523       | 100.00%         | 15.873%       |
| 18        | 17.606      | 2659          | 2664        | 2669         | rBV      | 47121          | 49877         | 1.66%           | 0.264%        |
| 19        | 18.630      | 2833          | 2838        | 2851         | rVB      | 584148         | 767595        | 25.56%          | 4.057%        |
| 20        | 20.294      | 3117          | 3121        | 3135         | rVB      | 419026         | 565292        | 18.82%          | 2.987%        |

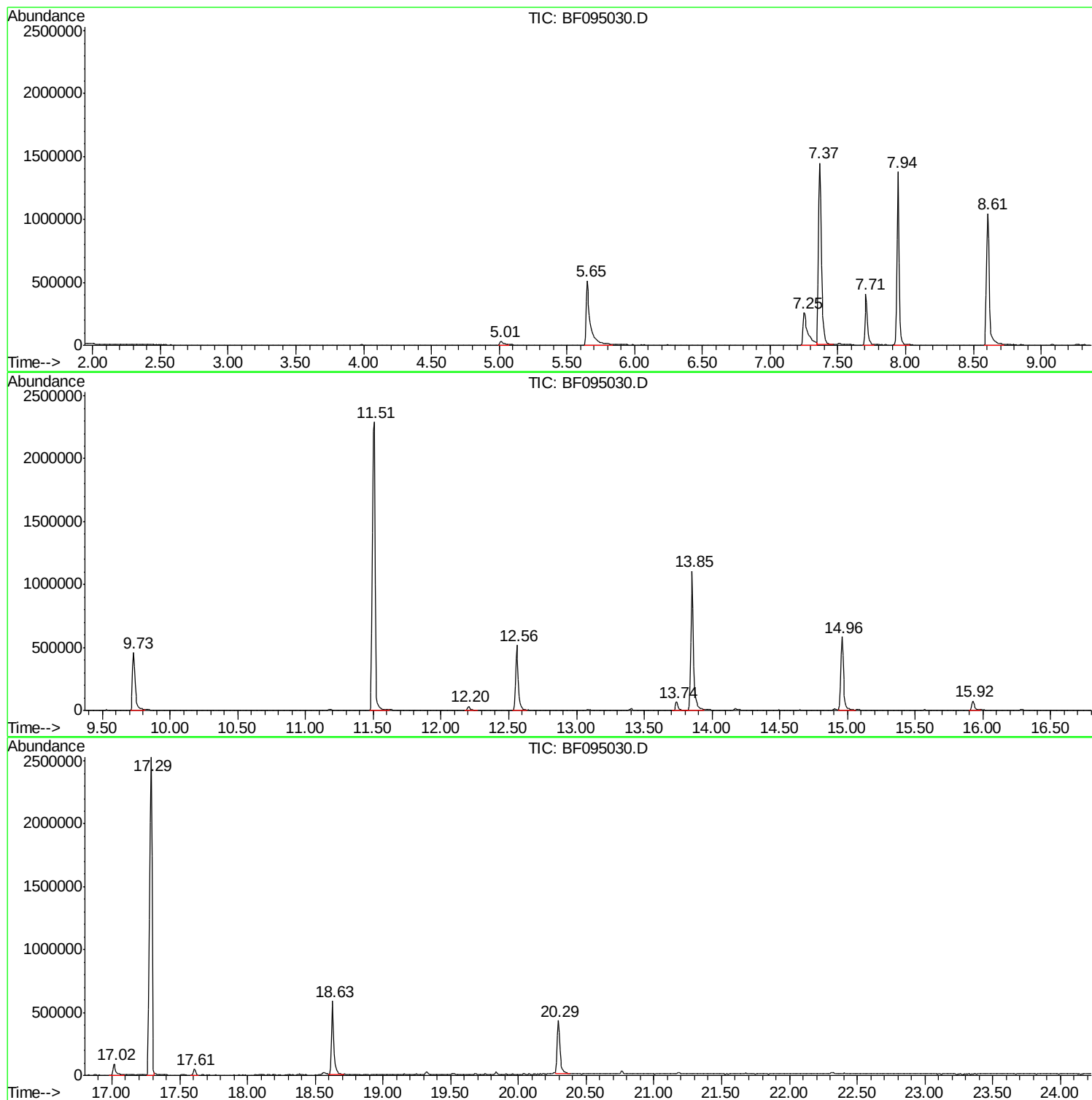
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Operator : SJ/MA  
Sample : I3014-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-1

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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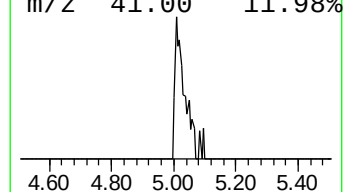
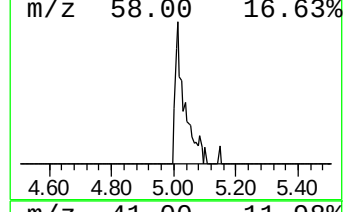
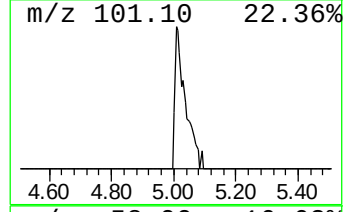
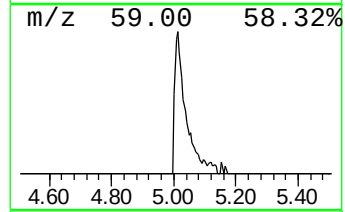
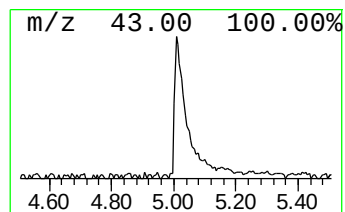
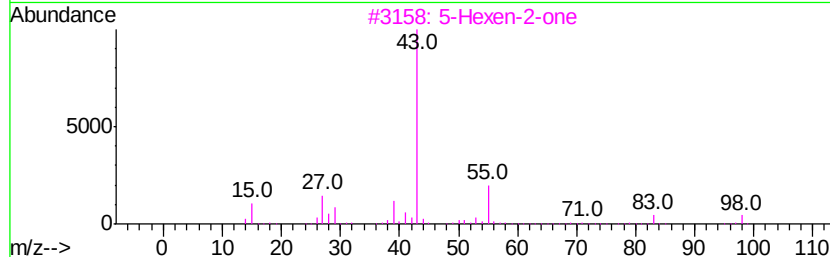
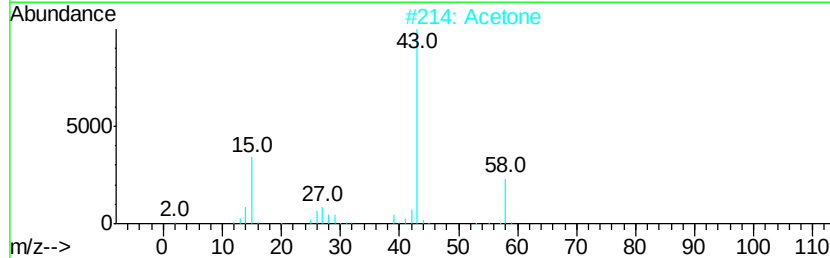
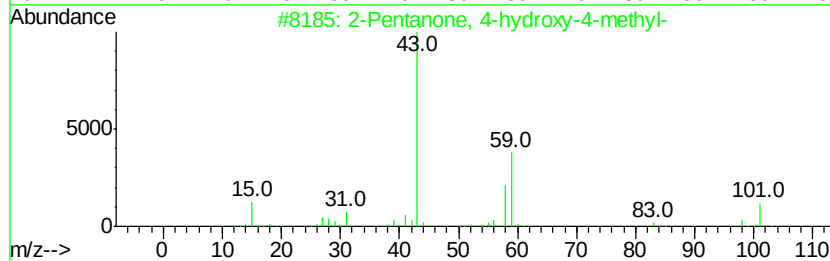
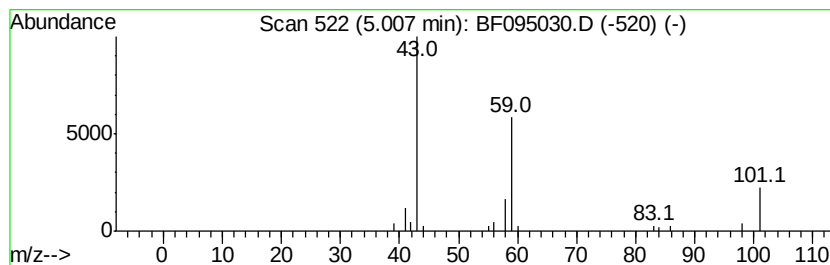
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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 4

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.01 | 2.70 ng | 69329 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 40   |
| 2    |    |   | Acetone                          | 58  | C3H6O   | 000067-64-1 | 9    |
| 3    |    |   | 5-Hexen-2-one                    | 98  | C6H10O  | 000109-49-9 | 9    |
| 4    |    |   | 3-Oxetanol, 2,2,3-trimethyl-     | 116 | C6H12O2 | 025910-96-7 | 9    |
| 5    |    |   | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 9    |



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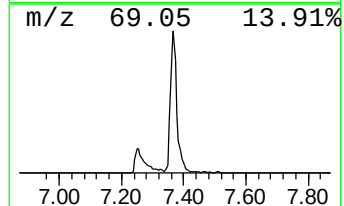
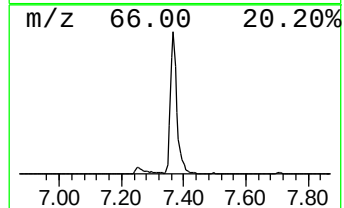
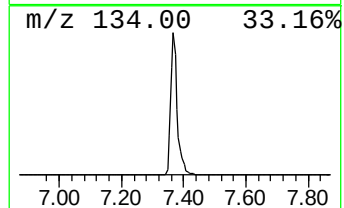
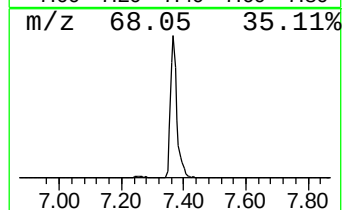
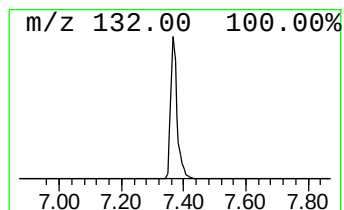
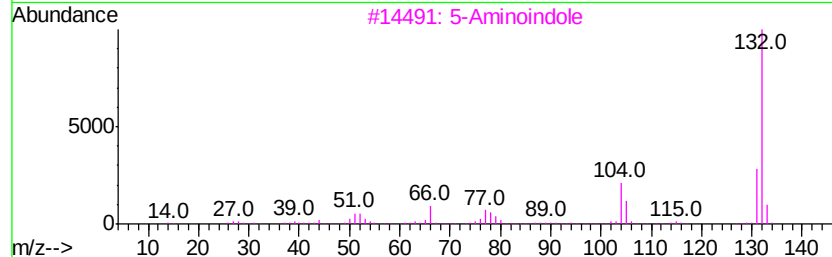
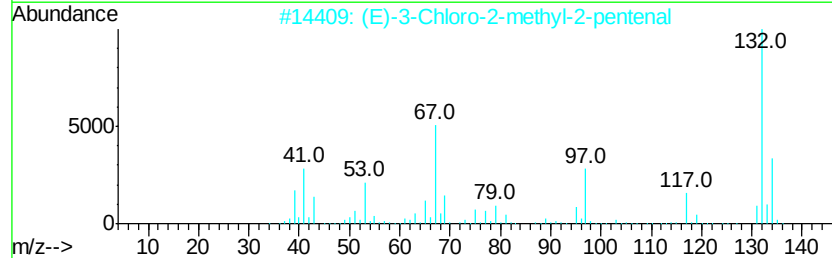
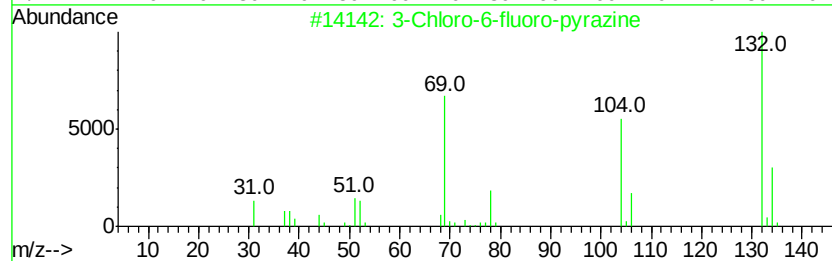
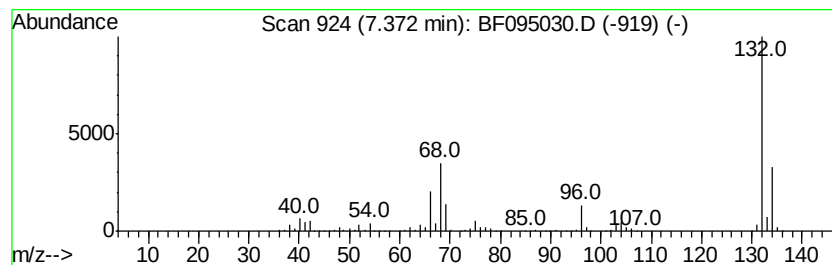
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TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown7.37 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.37 | 80.78 ng | 2071200 | 1,4-Dichlorobenzene-d4 | 7.71 |

| 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    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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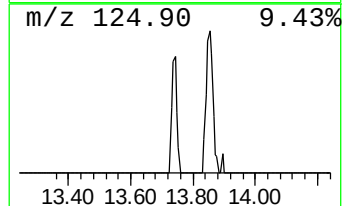
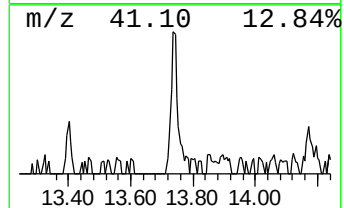
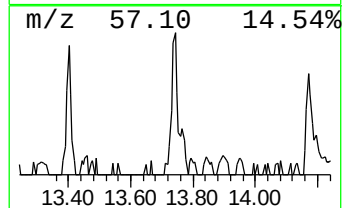
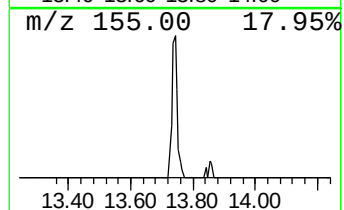
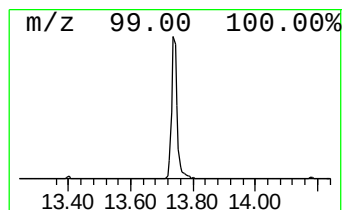
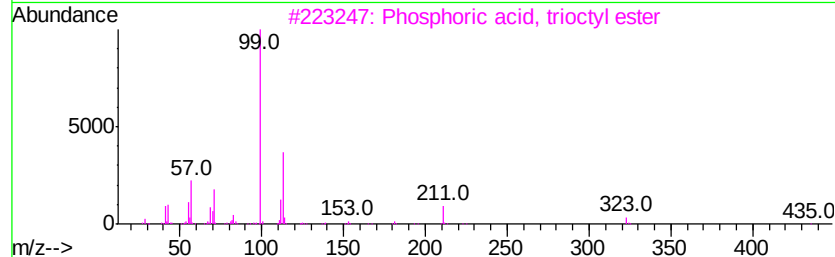
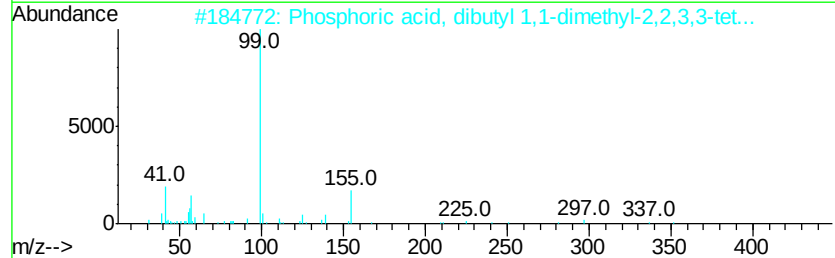
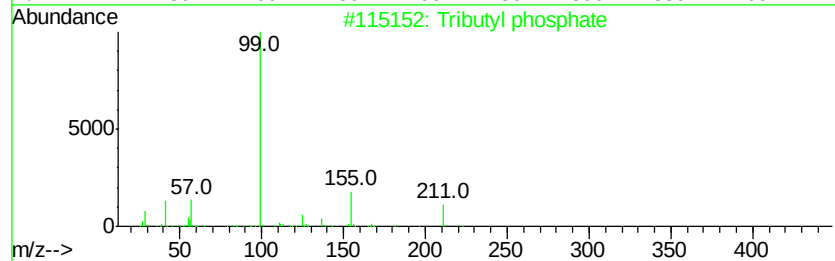
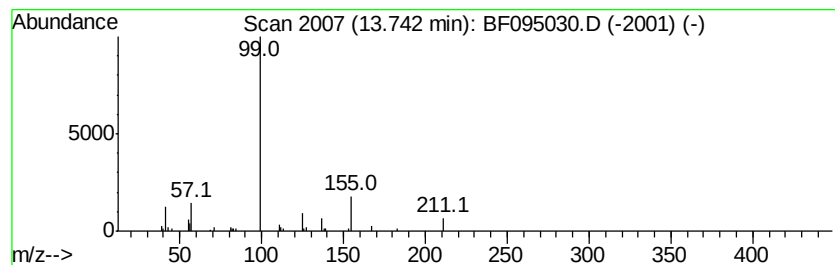
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tributyl phosphate Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.74 | 2.41 ng | 88986 | Acenaphthene-d10 | 12.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Tributyl phosphate                  | 266 | C12H27O4P   | 000126-73-8  | 86   |
| 2    |    | Phosphoric acid, dibutyl 1,1-dim... | 352 | C13H25F4O4P | 1000298-93-9 | 56   |
| 3    |    | Phosphoric acid, trioctyl ester     | 434 | C24H51O4P   | 001806-54-8  | 38   |
| 4    |    | n-Butyl methylphosphonofluoridate   | 154 | C5H12F02P   | 000352-63-6  | 36   |
| 5    |    | Phosphoric acid, dipropyl octyl ... | 294 | C14H31O4P   | 1000308-96-4 | 36   |



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ALS Vial : 7 Sample Multiplier: 1

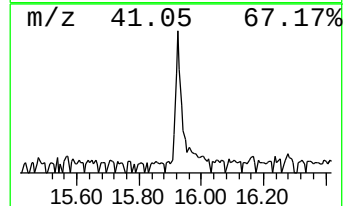
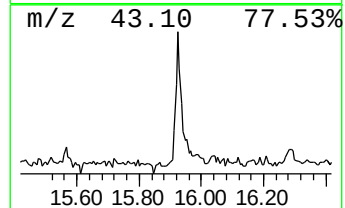
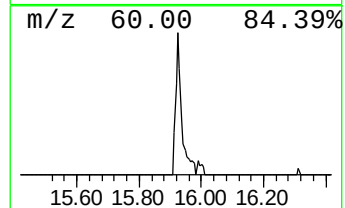
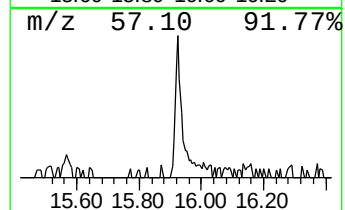
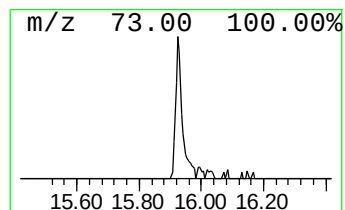
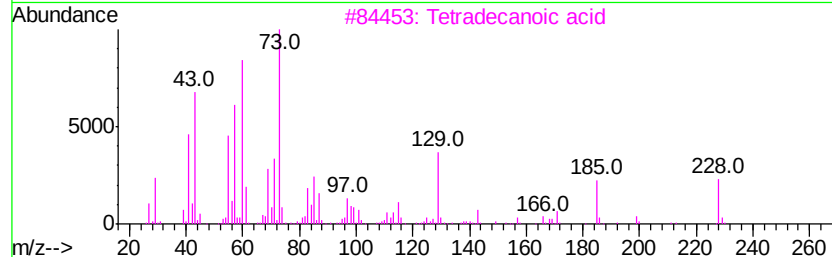
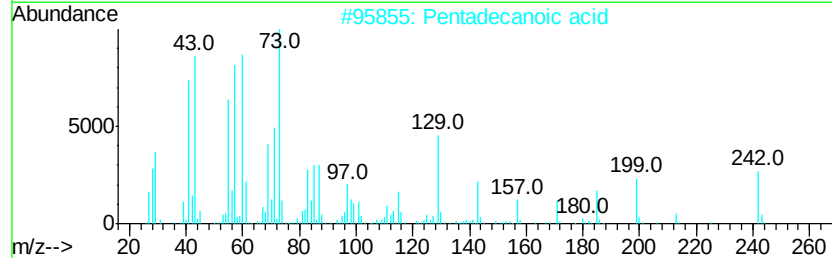
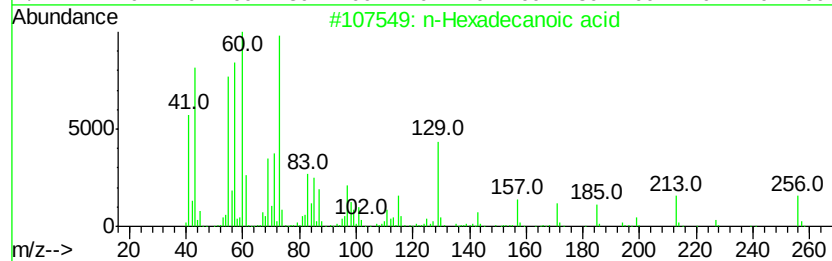
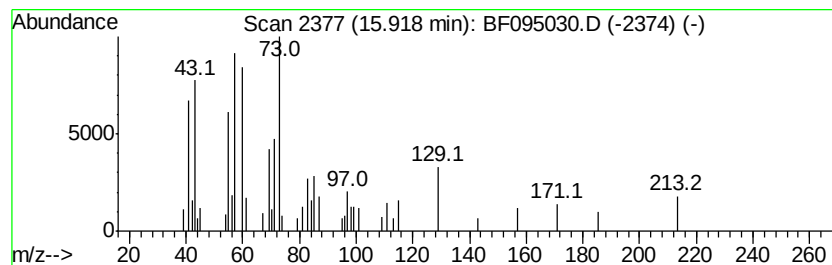
Instrument :  
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ClientSampleId :  
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\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 15.92     | 2.64 ng             | 103059 | Phenanthrene-d10 | 14.96       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 87   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72   |
| 4         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 58   |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 43   |



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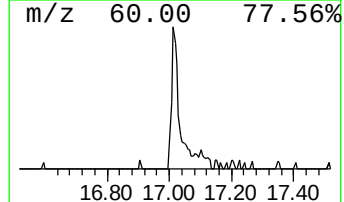
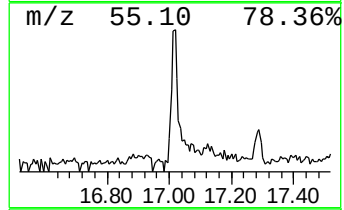
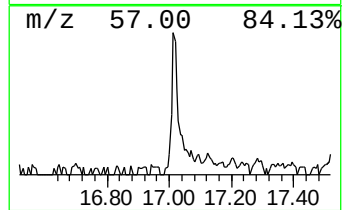
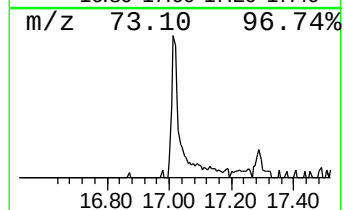
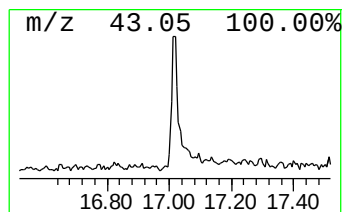
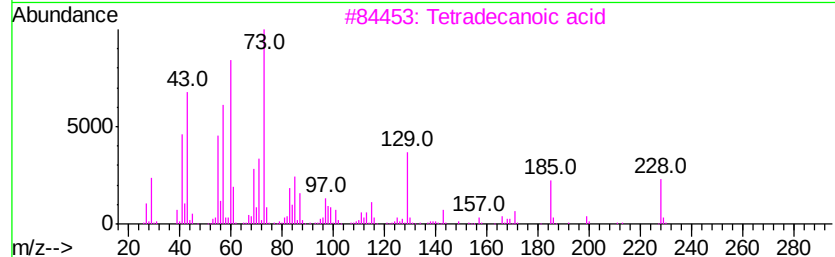
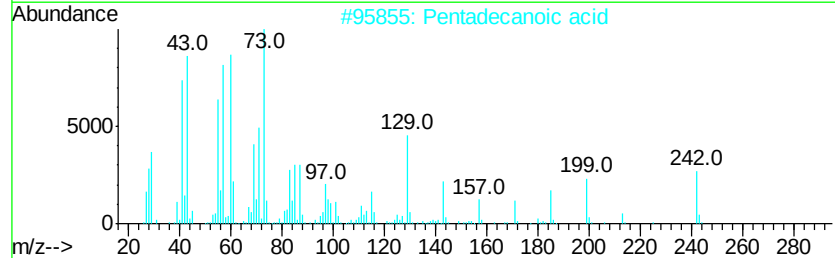
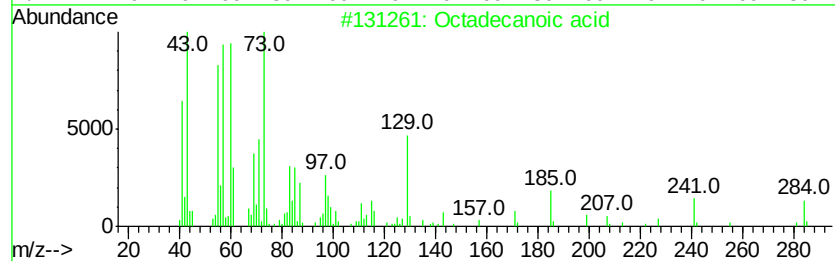
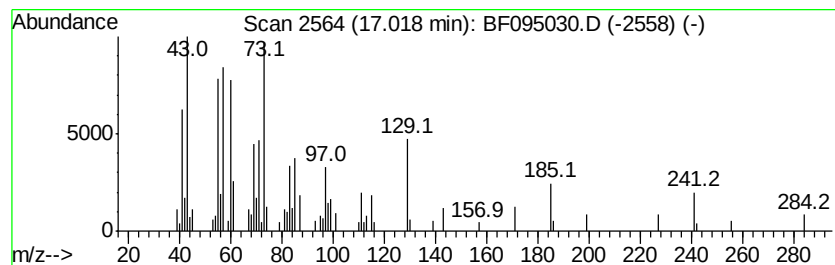
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.02 | 3.96 ng | 151960 | Chrysene-d12     | 18.63 |

| 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  | 87   |
| 3       |   | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8  | 64   |
| 4       |   | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3  | 49   |
| 5       |   | Oxalic acid, propyl tetradecyl e... | 328 | C19H36O4 | 1000309-26-7 | 30   |



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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... | 5.01  | 2.7     | ng    | 69329    | 1                     | 7.71  | 512785 | 20.0 |
| unknown7.37          | 7.37  | 80.8    | ng    | 2071200  | 1                     | 7.71  | 512785 | 20.0 |
| Tributyl phosphate   | 13.74 | 2.4     | ng    | 88986    | 3                     | 12.56 | 737215 | 20.0 |
| n-Hexadecanoic acid  | 15.92 | 2.6     | ng    | 103059   | 4                     | 14.96 | 779891 | 20.0 |
| Octadecanoic acid    | 17.02 | 4.0     | ng    | 151960   | 5                     | 18.63 | 767595 | 20.0 |