

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF090518\  
 Data File : BF108796.D  
 Acq On : 6 Sep 2018 1:16  
 Operator : JU/SJ  
 Sample : J4791-03 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DOCUMENTATION-#12

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-BF090518.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         | 5.331       | 505           | 509         | 513          | rVB      | 1072065        | 890260        | 7.17%           | 2.832%        |
| 2         | 6.354       | 679           | 683         | 686          | rBV      | 1267642        | 969588        | 7.81%           | 3.085%        |
| 3         | 6.496       | 703           | 707         | 711          | rBV      | 1168320        | 960635        | 7.73%           | 3.056%        |
| 4         | 6.737       | 744           | 748         | 751          | rBV      | 1832070        | 1646302       | 13.25%          | 5.237%        |
| 5         | 6.890       | 770           | 774         | 777          | rVB      | 943547         | 737439        | 5.94%           | 2.346%        |
| 6         | 7.284       | 837           | 841         | 845          | rBV      | 603287         | 531201        | 4.28%           | 1.690%        |
| 7         | 8.013       | 961           | 965         | 969          | rBV      | 2533200        | 2120348       | 17.07%          | 6.745%        |
| 8         | 9.089       | 1144          | 1148        | 1151         | rBV      | 1432520        | 1050899       | 8.46%           | 3.343%        |
| 9         | 9.484       | 1211          | 1215        | 1218         | rBV      | 353027         | 285449        | 2.30%           | 0.908%        |
| 10        | 9.766       | 1259          | 1263        | 1266         | rBV      | 2363854        | 2029754       | 16.34%          | 6.457%        |
| 11        | 10.542      | 1391          | 1395        | 1400         | rBV      | 527981         | 425004        | 3.42%           | 1.352%        |
| 12        | 11.242      | 1510          | 1514        | 1516         | rBV      | 2014268        | 1840761       | 14.82%          | 5.856%        |
| 13        | 11.260      | 1516          | 1517        | 1521         | rVV      | 420361         | 293768        | 2.36%           | 0.935%        |
| 14        | 11.848      | 1614          | 1617        | 1620         | rBV      | 129646         | 144225        | 1.16%           | 0.459%        |
| 15        | 12.442      | 1715          | 1718        | 1723         | rVB      | 743704         | 593263        | 4.78%           | 1.887%        |
| 16        | 12.672      | 1751          | 1757        | 1760         | rBV      | 686671         | 677021        | 5.45%           | 2.154%        |
| 17        | 12.819      | 1779          | 1782        | 1788         | rVB      | 1056507        | 854781        | 6.88%           | 2.719%        |
| 18        | 13.301      | 1860          | 1864        | 1867         | rBV      | 482874         | 418812        | 3.37%           | 1.332%        |
| 19        | 13.877      | 1955          | 1962        | 1971         | rVB2     | 9474348        | 12422342      | 100.00%         | 39.519%       |
| 20        | 14.030      | 1984          | 1988        | 1991         | rBV      | 191831         | 300011        | 2.42%           | 0.954%        |
| 21        | 14.871      | 2127          | 2131        | 2134         | rBV      | 206277         | 314825        | 2.53%           | 1.002%        |
| 22        | 14.971      | 2146          | 2148        | 2153         | rVB2     | 137292         | 131249        | 1.06%           | 0.418%        |
| 23        | 15.101      | 2167          | 2170        | 2176         | rVB      | 148701         | 174252        | 1.40%           | 0.554%        |
| 24        | 15.148      | 2176          | 2178        | 2184         | rVB      | 122472         | 137277        | 1.11%           | 0.437%        |
| 25        | 15.207      | 2185          | 2188        | 2193         | rVB      | 197615         | 221393        | 1.78%           | 0.704%        |
| 26        | 15.266      | 2194          | 2198        | 2202         | rBV      | 1068101        | 1262826       | 10.17%          | 4.017%        |

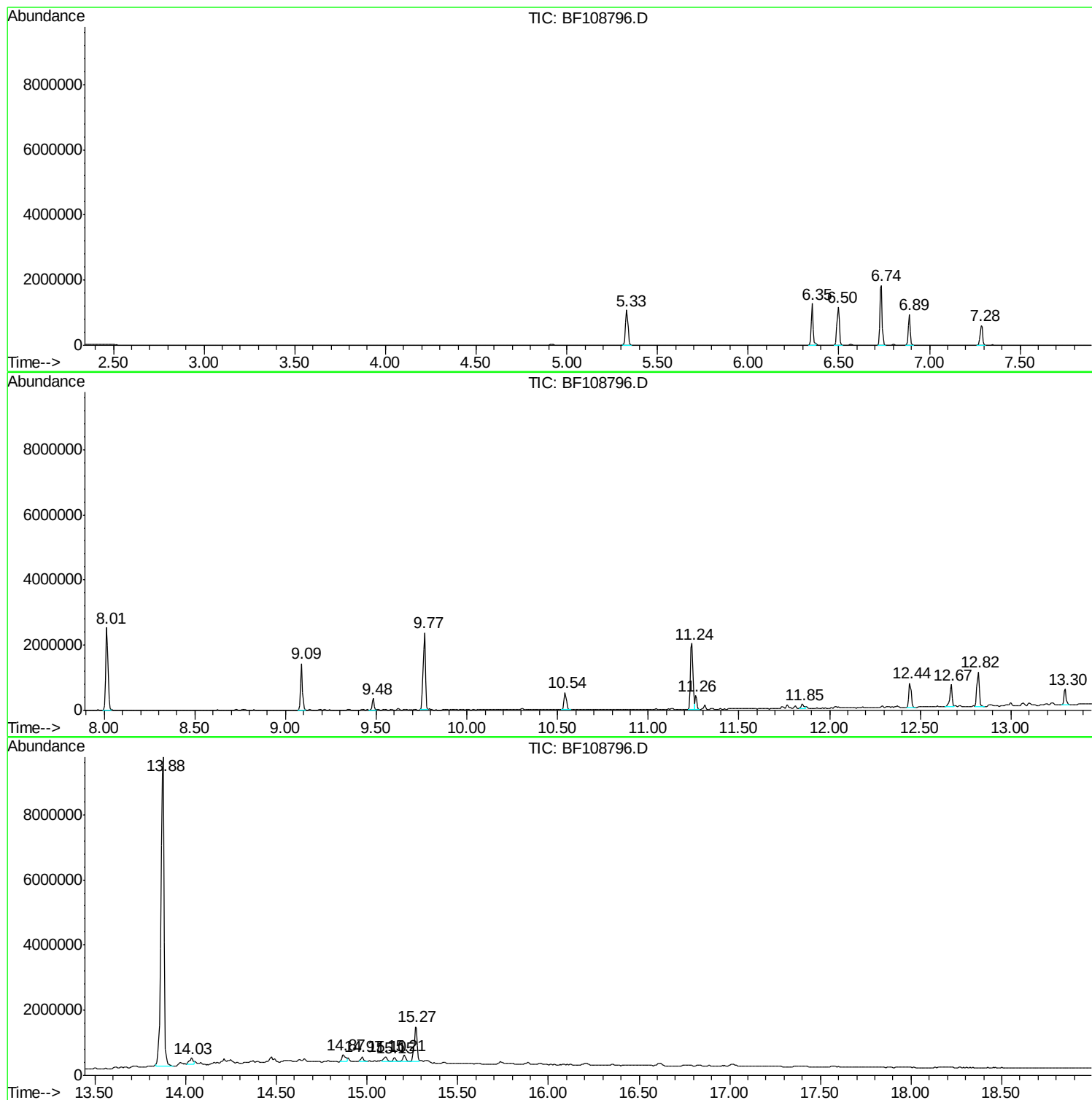
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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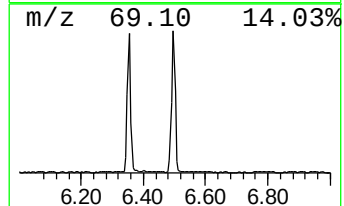
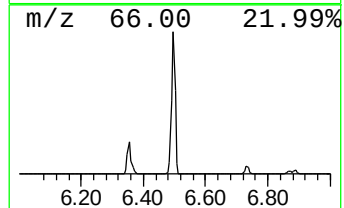
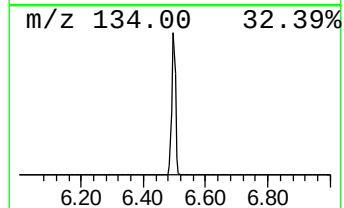
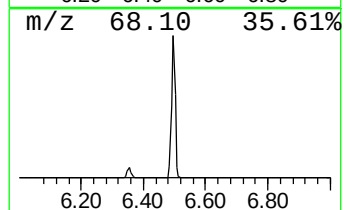
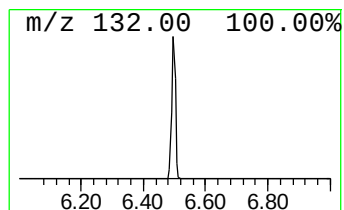
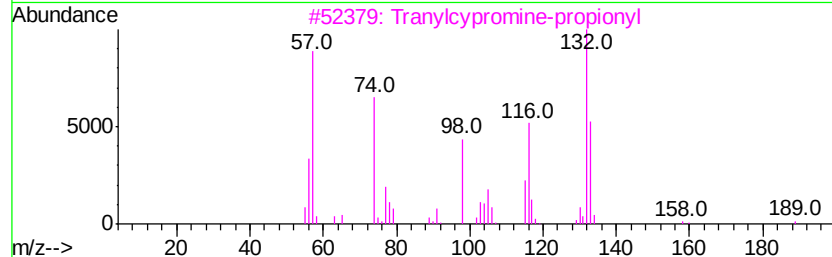
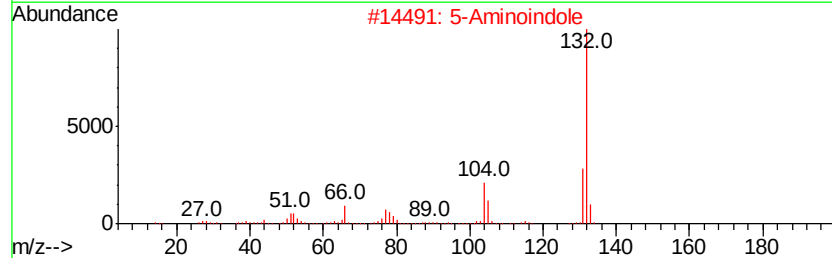
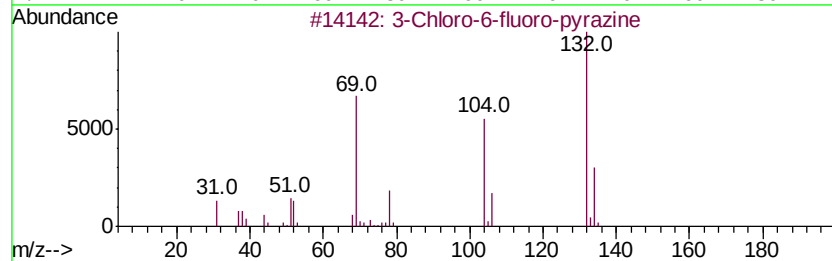
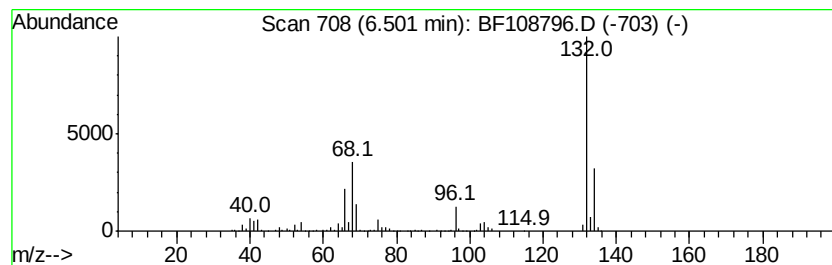
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.50 | 11.67 ng | 960635 | 1,4-Dichlorobenzene-d4 | 6.74 |

| Hit# | of                | Tentative ID             | MW  | MolForm   | CAS#         | Qual |
|------|-------------------|--------------------------|-----|-----------|--------------|------|
| 1    | 3                 | Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    | 5                 | Aminoindole              | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    | Tranvlcy          | promine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    | 5-Fluoro-2-chloro | pyrimidine               | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    | 4-Chloro-2-fluoro | pyrimidine               | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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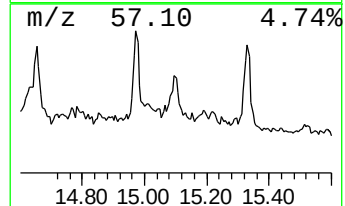
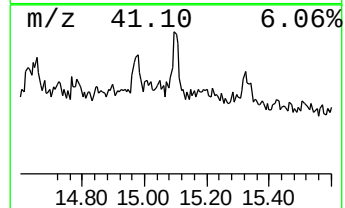
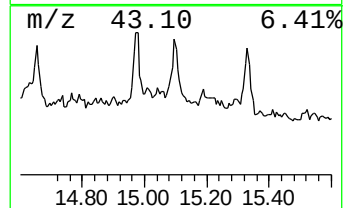
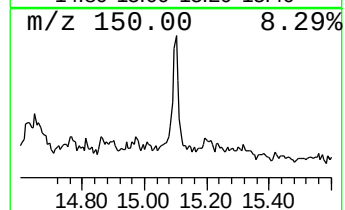
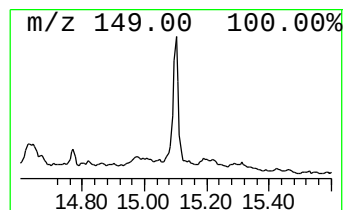
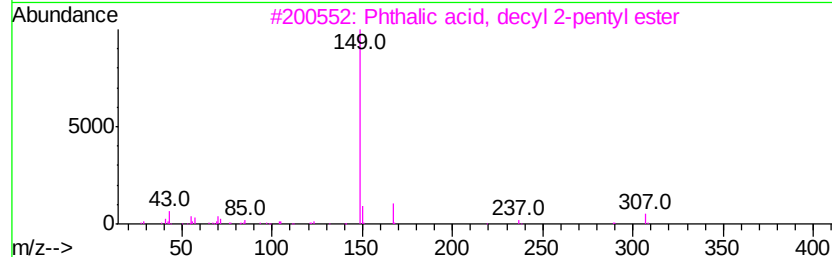
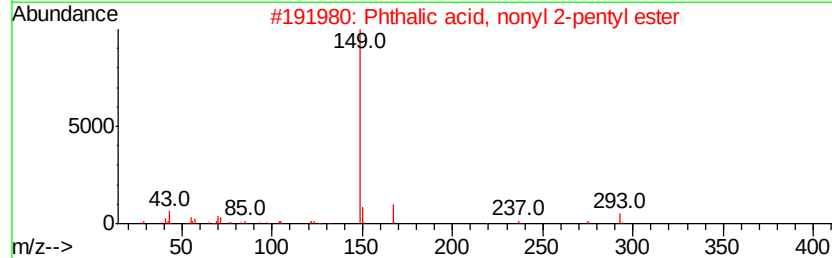
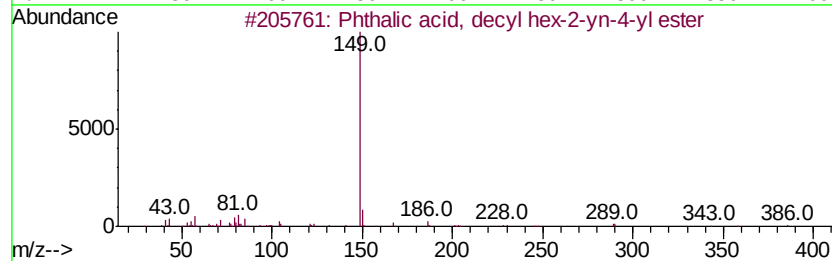
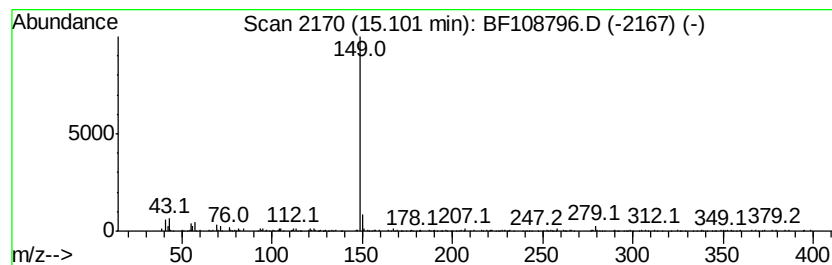
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Peak Number 4 Phthalic acid, decyl hex-2-... Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.10 | 2.76 ng | 174252 | Perylene-d12     | 15.27 |

| Hit# of | 5                                   | Tentative ID | MW       | MolForm      | CAS# | Qual |
|---------|-------------------------------------|--------------|----------|--------------|------|------|
| 1       | Phthalic acid, decyl hex-2-vn-4-... | 386          | C24H34O4 | 1000315-19-6 | 72   |      |
| 2       | Phthalic acid, nonyl 2-pentyl ester | 362          | C22H34O4 | 1000315-48-1 | 64   |      |
| 3       | Phthalic acid, decyl 2-pentyl ester | 376          | C23H36O4 | 1000315-48-2 | 64   |      |
| 4       | Phthalic acid, dec-2-yl propyl e... | 348          | C21H32O4 | 1000356-93-7 | 64   |      |
| 5       | Phthalic acid, hept-2-yl propyl ... | 306          | C18H26O4 | 1000356-96-9 | 64   |      |



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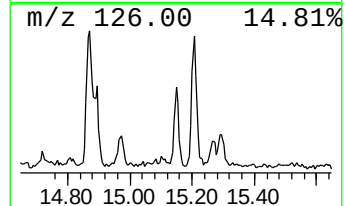
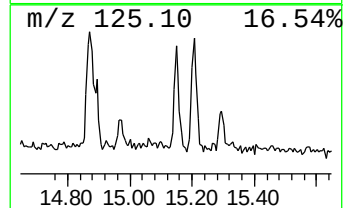
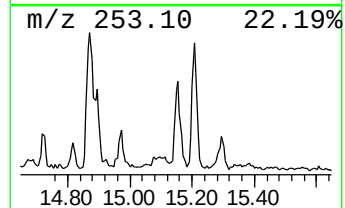
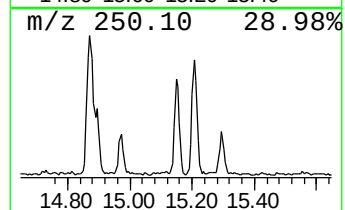
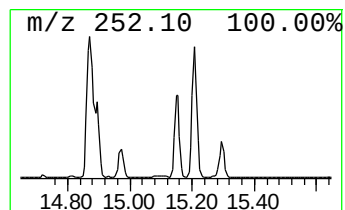
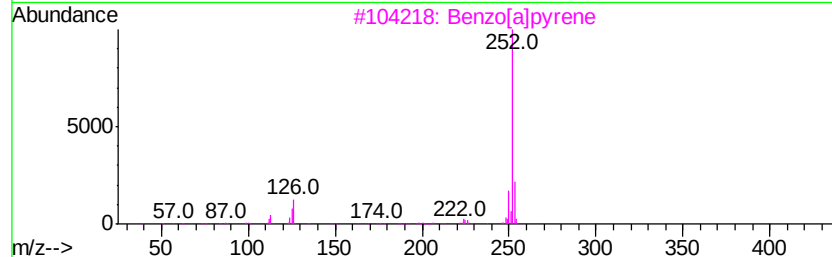
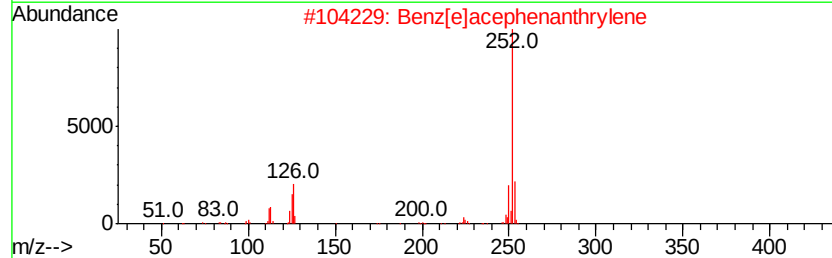
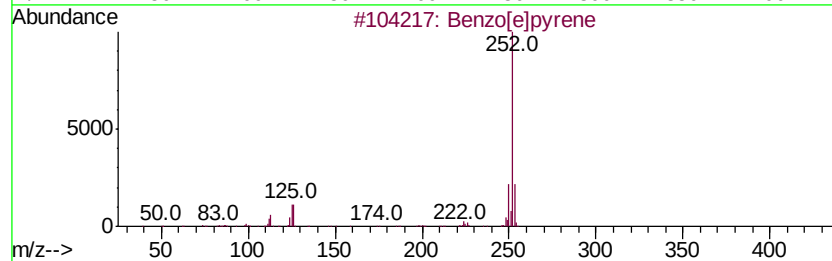
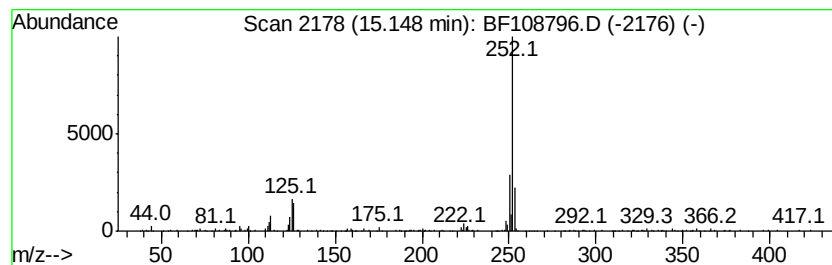
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Peak Number 5 Benzo[e]pyrene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.15 | 2.17 ng | 137277 | Perylene-d12     | 15.27 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2       |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 3       |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |
| 4       |   | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 81   |
| 5       |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 81   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.50          | 6.50  | 11.7    | ng    | 960635   | 1                     | 6.74  | 1646300 | 20.0 |
| Phthalic acid, de... | 15.10 | 2.8     | ng    | 174252   | 6                     | 15.27 | 1262830 | 20.0 |
| Benzo[e]pyrene       | 15.15 | 2.2     | ng    | 137277   | 6                     | 15.27 | 1262830 | 20.0 |