

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\  
 Data File : BF101145.D  
 Acq On : 6 Dec 2017 1:32  
 Operator : SJ/JU  
 Sample : I6702-04  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-3-E(0-1)

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.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         | 5.081       | 506           | 509         | 525          | rBB      | 54361          | 81339         | 5.37%           | 0.652%        |
| 2         | 5.475       | 571           | 576         | 579          | rBV      | 1220445        | 1229210       | 81.17%          | 9.858%        |
| 3         | 6.481       | 742           | 747         | 760          | rBV      | 1104210        | 1297210       | 85.66%          | 10.403%       |
| 4         | 6.622       | 766           | 771         | 774          | rBV      | 1317678        | 1322053       | 87.30%          | 10.603%       |
| 5         | 6.845       | 806           | 809         | 813          | rBV      | 389248         | 310525        | 20.51%          | 2.490%        |
| 6         | 7.004       | 831           | 836         | 839          | rBV      | 1247617        | 1043203       | 68.89%          | 8.366%        |
| 7         | 7.416       | 900           | 906         | 909          | rBV      | 790867         | 791032        | 52.24%          | 6.344%        |
| 8         | 8.128       | 1023          | 1027        | 1031         | rBV      | 491610         | 400210        | 26.43%          | 3.210%        |
| 9         | 9.204       | 1205          | 1210        | 1213         | rBV      | 1812618        | 1514351       | 100.00%         | 12.145%       |
| 10        | 9.592       | 1272          | 1276        | 1284         | rBV      | 91631          | 93348         | 6.16%           | 0.749%        |
| 11        | 9.804       | 1308          | 1312        | 1316         | rBV      | 44694          | 35030         | 2.31%           | 0.281%        |
| 12        | 9.886       | 1321          | 1326        | 1329         | rBV      | 451658         | 426084        | 28.14%          | 3.417%        |
| 13        | 10.304      | 1394          | 1397        | 1400         | rVB      | 51221          | 36400         | 2.40%           | 0.292%        |
| 14        | 10.675      | 1456          | 1460        | 1470         | rVB      | 867723         | 833777        | 55.06%          | 6.687%        |
| 15        | 10.775      | 1474          | 1477        | 1481         | rBV      | 34086          | 31303         | 2.07%           | 0.251%        |
| 16        | 11.375      | 1575          | 1579        | 1581         | rBV      | 487609         | 413697        | 27.32%          | 3.318%        |
| 17        | 11.398      | 1581          | 1583        | 1586         | rVB      | 60758          | 47037         | 3.11%           | 0.377%        |
| 18        | 11.986      | 1680          | 1683        | 1685         | rBV2     | 19987          | 20915         | 1.38%           | 0.168%        |
| 19        | 12.586      | 1782          | 1785        | 1789         | rBV      | 171481         | 134892        | 8.91%           | 1.082%        |
| 20        | 12.816      | 1818          | 1824        | 1827         | rBV      | 165791         | 151932        | 10.03%          | 1.218%        |
| 21        | 12.957      | 1844          | 1848        | 1851         | rBV      | 1300307        | 1156089       | 76.34%          | 9.272%        |
| 22        | 13.839      | 1996          | 1998        | 2001         | rBV3     | 42353          | 38495         | 2.54%           | 0.309%        |
| 23        | 14.016      | 2019          | 2028        | 2031         | rBV2     | 355210         | 367728        | 24.28%          | 2.949%        |
| 24        | 14.039      | 2031          | 2032        | 2040         | rVB      | 67290          | 50969         | 3.37%           | 0.409%        |
| 25        | 14.404      | 2089          | 2094        | 2097         | rBV      | 17356          | 18709         | 1.24%           | 0.150%        |
| 26        | 15.057      | 2200          | 2205        | 2209         | rBV      | 66184          | 106253        | 7.02%           | 0.852%        |
| 27        | 15.363      | 2251          | 2257        | 2262         | rBV      | 41697          | 51477         | 3.40%           | 0.413%        |
| 28        | 15.427      | 2264          | 2268        | 2273         | rVB      | 58314          | 66972         | 4.42%           | 0.537%        |
| 29        | 15.492      | 2273          | 2279        | 2283         | rBV      | 229178         | 291109        | 19.22%          | 2.335%        |
| 30        | 16.974      | 2524          | 2531        | 2539         | rBV3     | 27153          | 64506         | 4.26%           | 0.517%        |
| 31        | 17.421      | 2600          | 2607        | 2614         | rVB      | 20517          | 43164         | 2.85%           | 0.346%        |

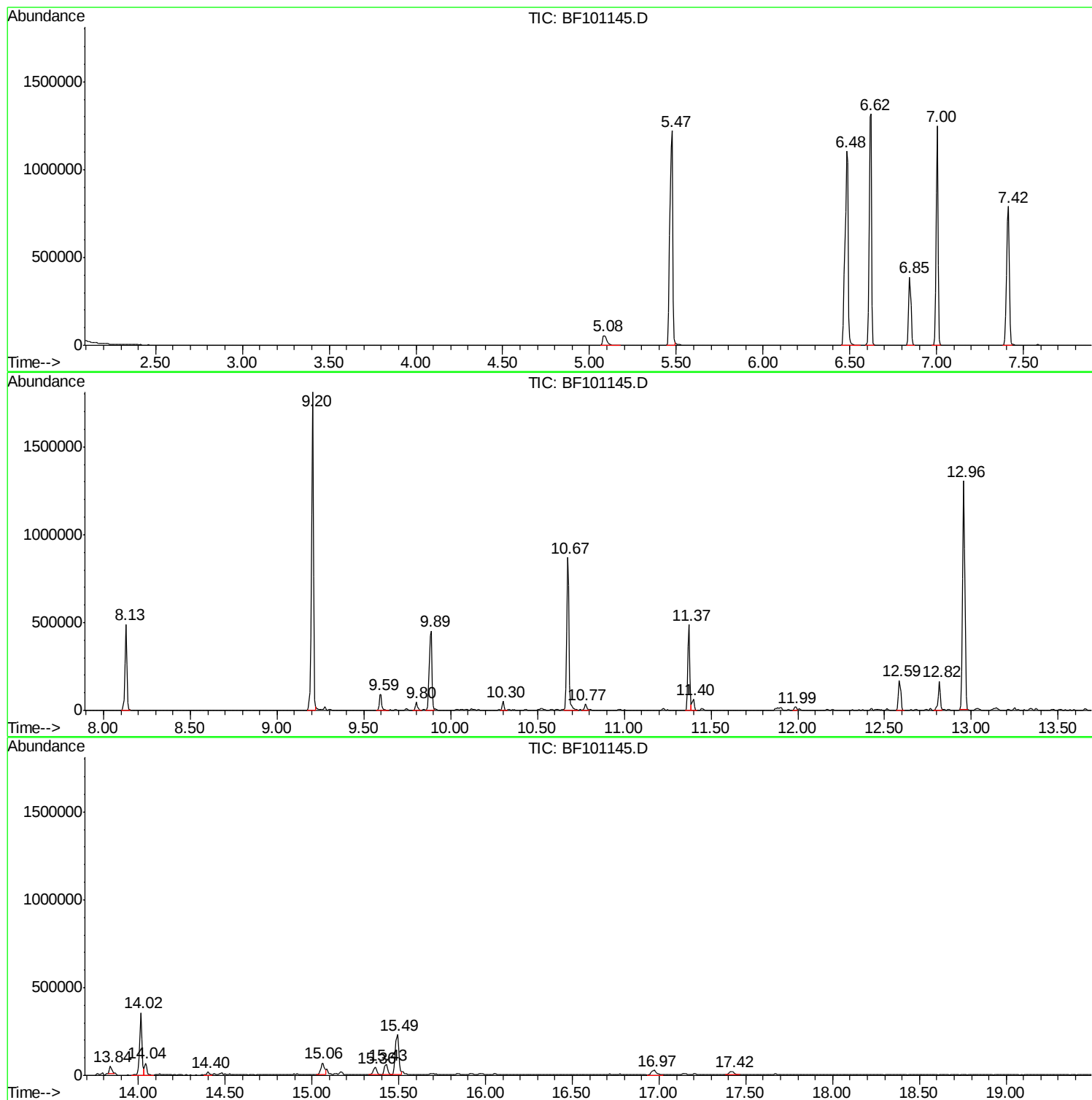
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ClientSampleId :  
MH-3-E(0-1)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.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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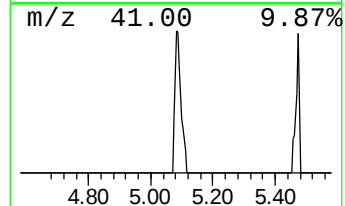
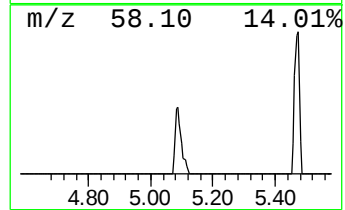
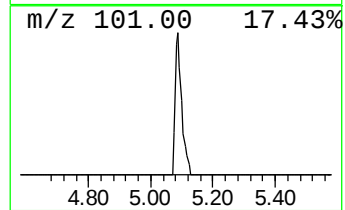
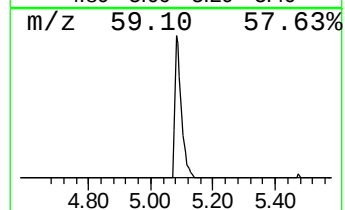
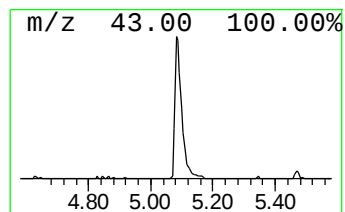
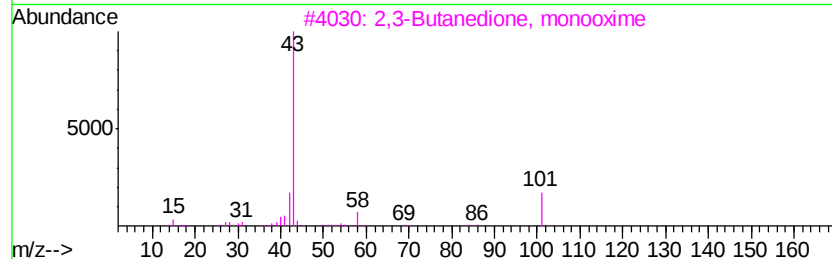
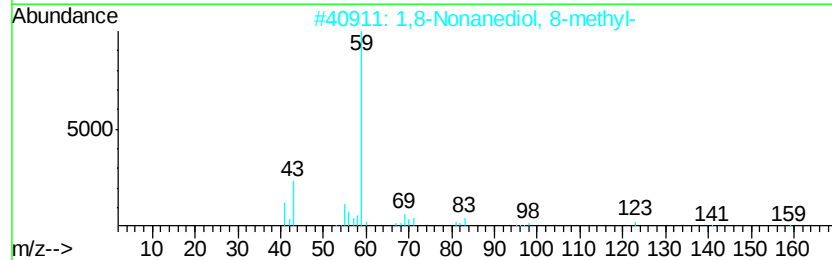
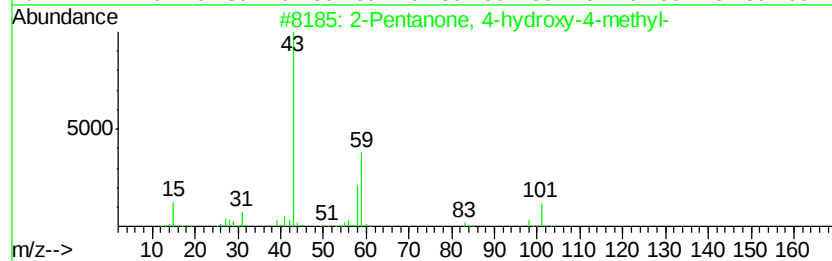
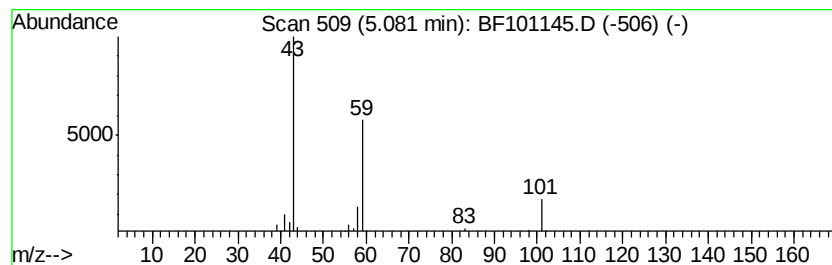
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.08 | 5.24 ng | 81339 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | 1,8-Nonanediol, 8-methyl-        | 174 | C10H22O2 | 054725-73-4 | 25   |
| 3    |    |   | 2,3-Butanedione, monooxime       | 101 | C4H7NO2  | 000057-71-6 | 16   |
| 4    |    |   | Morpholine, 4-methyl-            | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    |   | Butane                           | 58  | C4H10    | 000106-97-8 | 9    |



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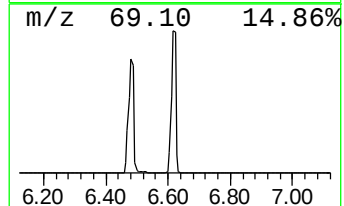
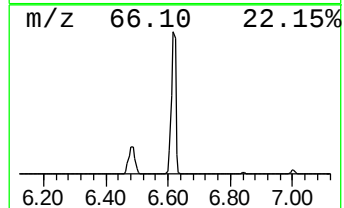
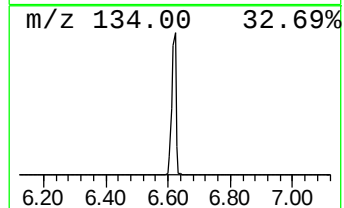
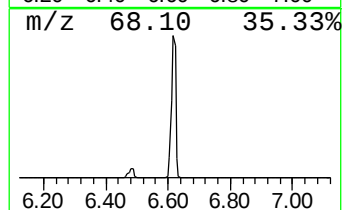
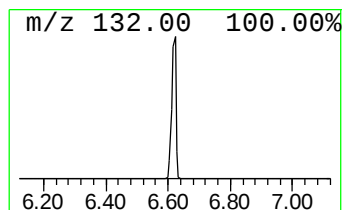
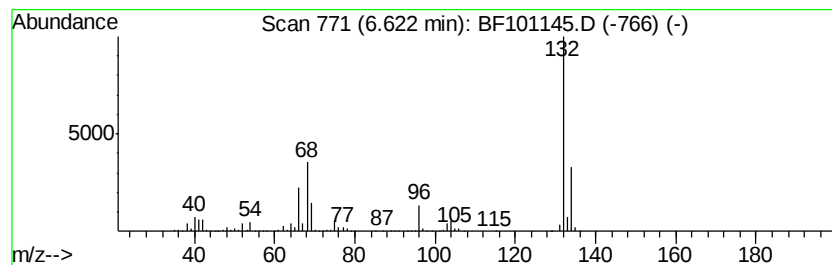
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.62 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.62 | 85.15 ng | 1322050 | 1,4-Dichlorobenzene-d4 | 6.85 |

| 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    |    | Tranvlcyproline-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |



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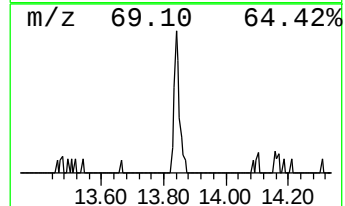
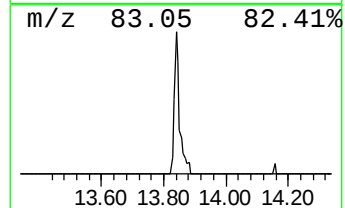
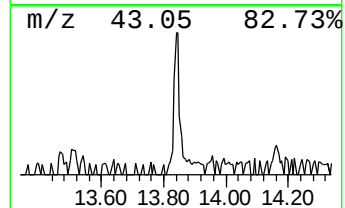
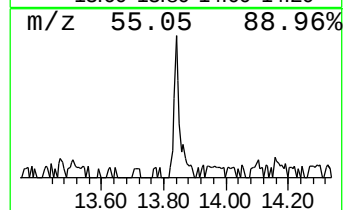
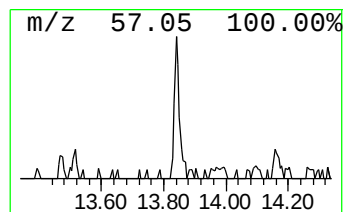
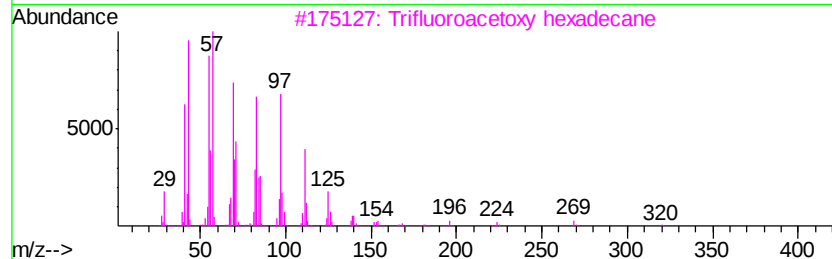
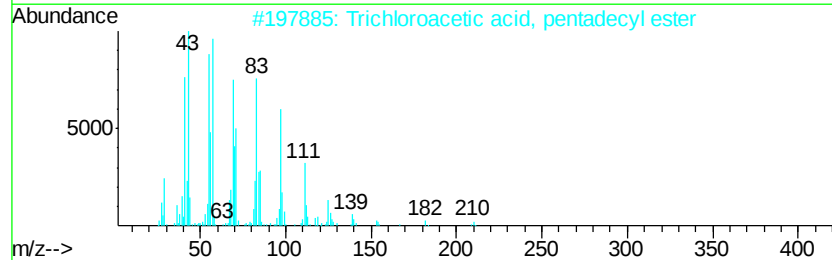
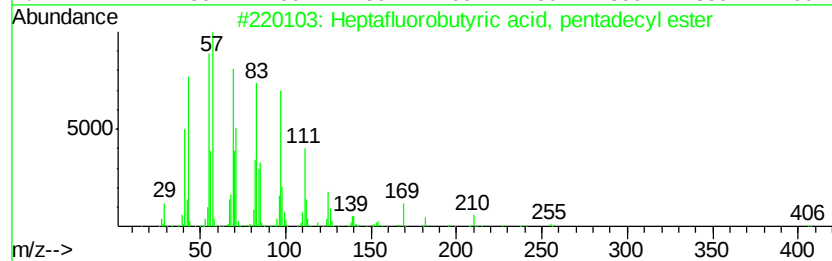
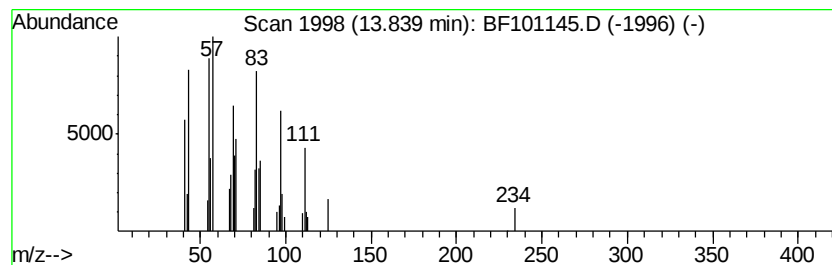
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Heptafluorobutyric acid, pe... Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 13.84 | 2.09 ng | 38495 | Chrysene-d12     | 14.02 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-------------|-------------|------|
| 1       |   | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2  | 959261-23-5 | 94   |
| 2       |   | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91   |
| 3       |   | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2  | 006222-03-3 | 91   |
| 4       |   | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2  | 006385-15-5 | 91   |
| 5       |   | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2  | 959010-23-2 | 91   |



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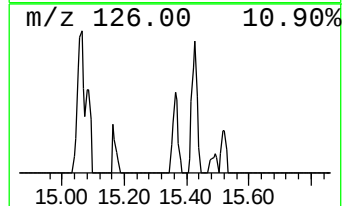
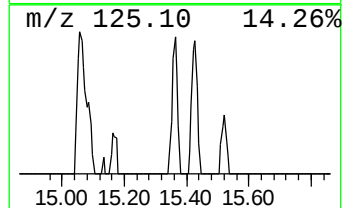
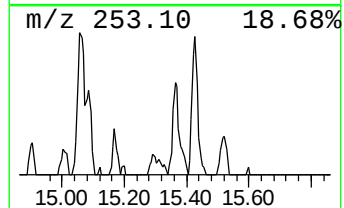
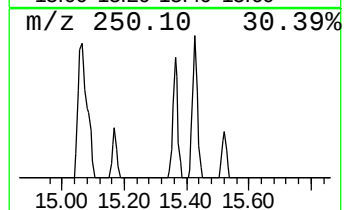
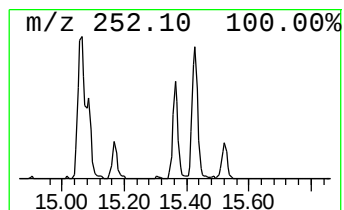
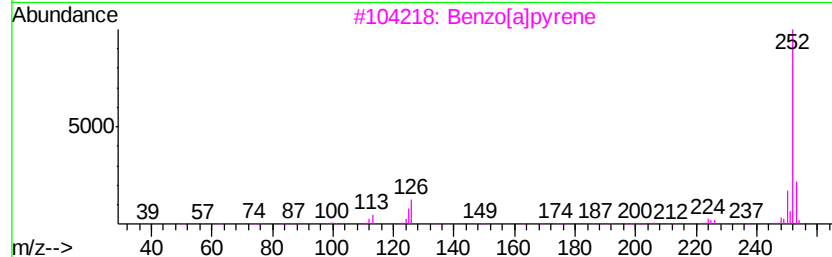
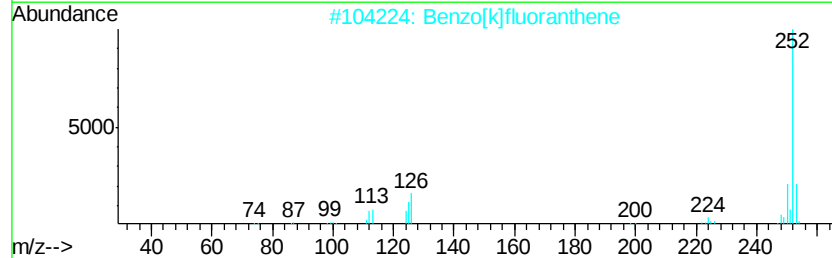
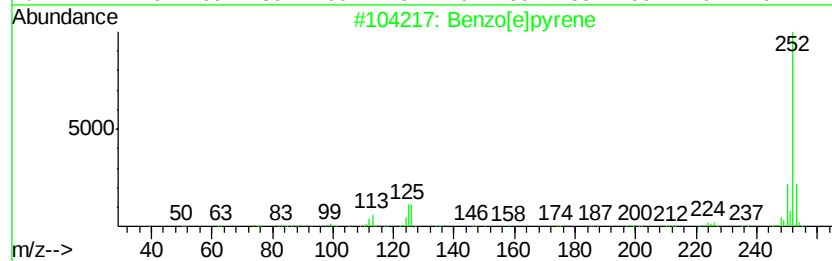
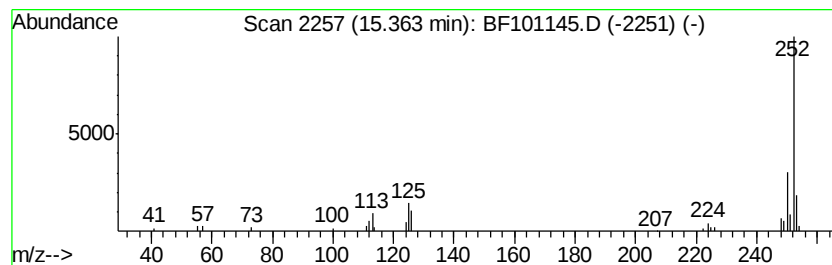
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\*\*\*\*\*  
Peak Number 5 Benzo[e]pyrene Concentration Rank 4

| R.T.      | EstConc                   | Area  | Relative to ISTD | R.T.        |      |
|-----------|---------------------------|-------|------------------|-------------|------|
| 15.36     | 3.54 ng                   | 51477 | Perylene-d12     | 15.49       |      |
| Hit# of 5 | Tentative ID              | MW    | MolForm          | CAS#        | Qual |
| 1         | Benzo[el]pyrene           | 252   | C20H12           | 000192-97-2 | 97   |
| 2         | Benzo[k]fluoranthene      | 252   | C20H12           | 000207-08-9 | 95   |
| 3         | Benzo[al]pyrene           | 252   | C20H12           | 000050-32-8 | 94   |
| 4         | Benz[el]acephenanthrylene | 252   | C20H12           | 000205-99-2 | 90   |
| 5         | Perylene                  | 252   | C20H12           | 000198-55-0 | 89   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.08  | 5.2     | ng    | 81339    | 1                     | 6.85  | 310525 | 20.0 |
| unknown6.62          | 6.62  | 85.2    | ng    | 1322050  | 1                     | 6.85  | 310525 | 20.0 |
| Heptafluorobutyri... | 13.84 | 2.1     | ng    | 38495    | 5                     | 14.02 | 367728 | 20.0 |
| Benzo[e]pyrene       | 15.36 | 3.5     | ng    | 51477    | 6                     | 15.49 | 291109 | 20.0 |