

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121415\  
 Data File : BF083784.D  
 Acq On : 14 Dec 2015 22:23  
 Operator : UM/IZ  
 Sample : G4761-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXCAVATION-WATER

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-BF121315.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       | 259           | 262         | 264          | rBV      | 156721         | 231003        | 6.04%           | 0.937%        |
| 2         | 5.493       | 296           | 298         | 301          | rBV      | 985476         | 1306742       | 34.19%          | 5.301%        |
| 3         | 6.522       | 385           | 388         | 390          | rBV      | 1020255        | 939187        | 24.57%          | 3.810%        |
| 4         | 6.670       | 398           | 401         | 403          | rBV      | 1663251        | 2362156       | 61.81%          | 9.583%        |
| 5         | 6.899       | 418           | 421         | 423          | rBV      | 812171         | 682981        | 17.87%          | 2.771%        |
| 6         | 7.059       | 432           | 435         | 437          | rBV      | 2494759        | 2366546       | 61.92%          | 9.601%        |
| 7         | 7.459       | 467           | 470         | 472          | rBV      | 1795323        | 1798192       | 47.05%          | 7.295%        |
| 8         | 7.905       | 507           | 509         | 513          | rVB2     | 28255          | 50129         | 1.31%           | 0.203%        |
| 9         | 8.179       | 531           | 533         | 536          | rBV      | 860920         | 910458        | 23.82%          | 3.694%        |
| 10        | 9.265       | 625           | 628         | 630          | rBV      | 3729485        | 3821906       | 100.00%         | 15.505%       |
| 11        | 9.653       | 659           | 662         | 664          | rBV      | 124609         | 113408        | 2.97%           | 0.460%        |
| 12        | 9.939       | 684           | 687         | 689          | rBV      | 1118854        | 1074245       | 28.11%          | 4.358%        |
| 13        | 10.202      | 707           | 710         | 713          | rBV      | 335871         | 430026        | 11.25%          | 1.745%        |
| 14        | 10.373      | 719           | 725         | 727          | rBV3     | 34218          | 65854         | 1.72%           | 0.267%        |
| 15        | 10.591      | 742           | 744         | 748          | rVB2     | 40035          | 74391         | 1.95%           | 0.302%        |
| 16        | 10.728      | 753           | 756         | 758          | rBV2     | 1682386        | 2178313       | 57.00%          | 8.837%        |
| 17        | 10.842      | 765           | 766         | 771          | rVB      | 49464          | 82929         | 2.17%           | 0.336%        |
| 18        | 11.105      | 786           | 789         | 791          | rBV2     | 41020          | 47980         | 1.26%           | 0.195%        |
| 19        | 11.219      | 797           | 799         | 802          | rVB2     | 34621          | 46048         | 1.20%           | 0.187%        |
| 20        | 11.299      | 804           | 806         | 807          | rBV      | 42168          | 47918         | 1.25%           | 0.194%        |
| 21        | 11.414      | 814           | 816         | 819          | rBV      | 982567         | 958456        | 25.08%          | 3.888%        |
| 22        | 11.471      | 819           | 821         | 824          | rVB      | 37015          | 40482         | 1.06%           | 0.164%        |
| 23        | 11.551      | 824           | 828         | 832          | rVB7     | 13600          | 43579         | 1.14%           | 0.177%        |
| 24        | 11.951      | 861           | 863         | 867          | rBV3     | 107802         | 180243        | 4.72%           | 0.731%        |
| 25        | 12.019      | 867           | 869         | 874          | rVV      | 186069         | 225393        | 5.90%           | 0.914%        |
| 26        | 12.111      | 875           | 877         | 883          | rVV      | 253012         | 304997        | 7.98%           | 1.237%        |
| 27        | 12.739      | 930           | 932         | 939          | rVB      | 101723         | 136239        | 3.56%           | 0.553%        |
| 28        | 13.002      | 952           | 955         | 957          | rBV      | 2831772        | 2680204       | 70.13%          | 10.873%       |
| 29        | 13.905      | 1031          | 1034        | 1037         | rBV3     | 35219          | 60095         | 1.57%           | 0.244%        |
| 30        | 14.042      | 1044          | 1046        | 1049         | rBV      | 651883         | 753394        | 19.71%          | 3.056%        |
| 31        | 15.483      | 1169          | 1172        | 1175         | rBV      | 523738         | 636081        | 16.64%          | 2.580%        |

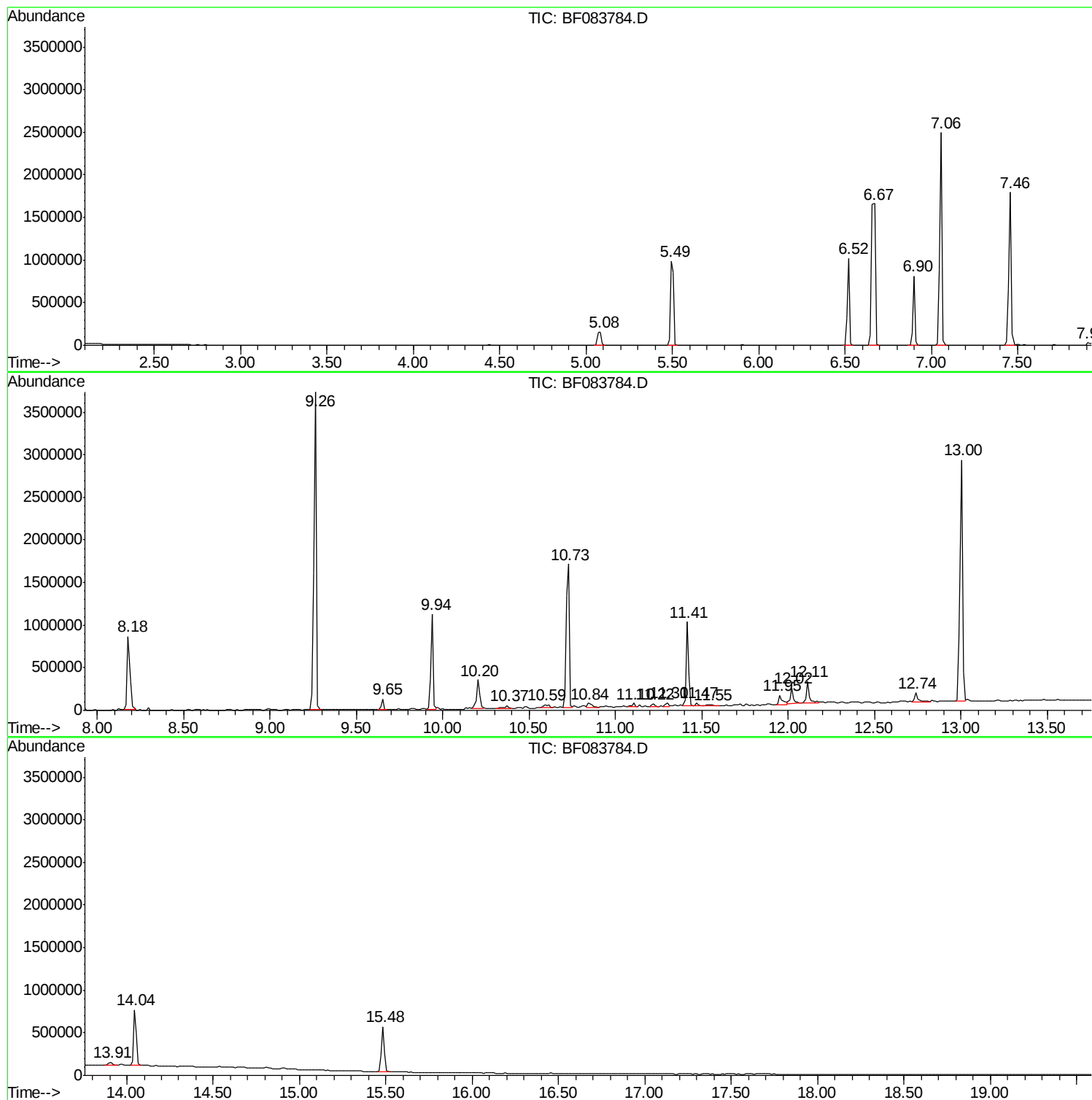
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ClientSampleId :  
EXCAVATION-WATER

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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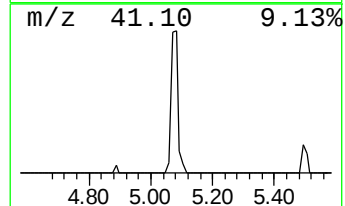
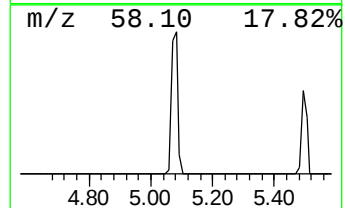
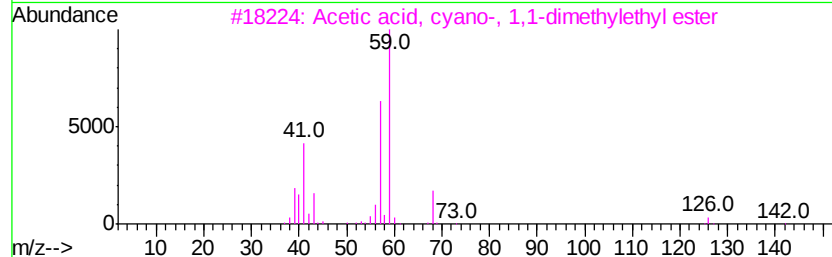
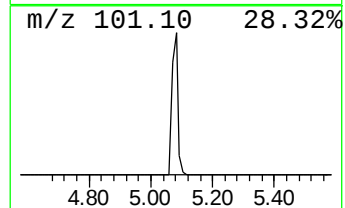
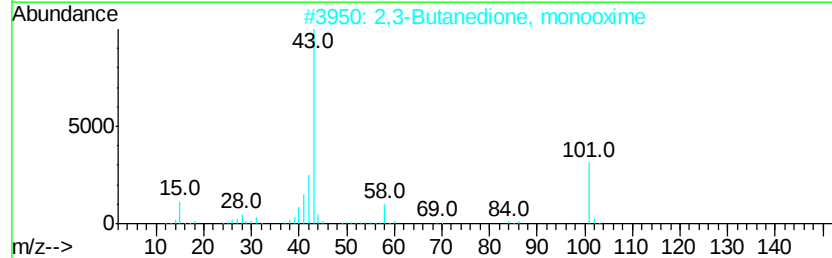
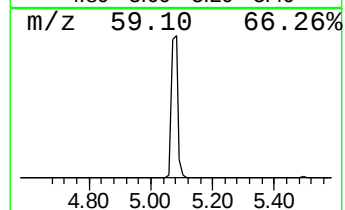
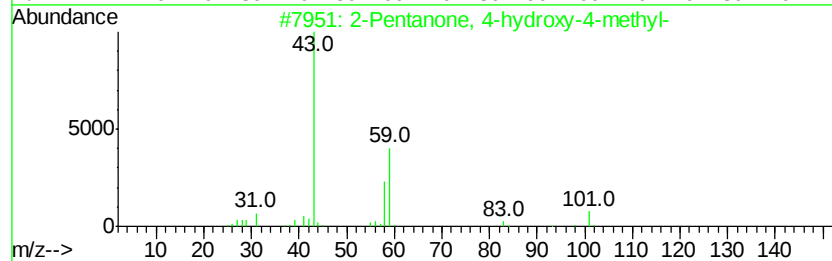
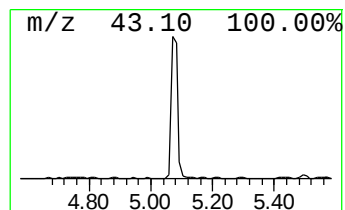
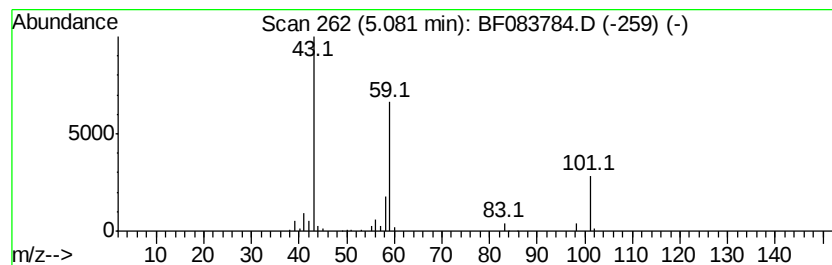
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|---------|--------|------------------------|------|
| 5.08 | 6.76 ng | 231003 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 64   |
| 2    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 17   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    |   | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |
| 5    |    |   | Guanidine                            | 59  | CH5N3    | 000113-00-8 | 9    |



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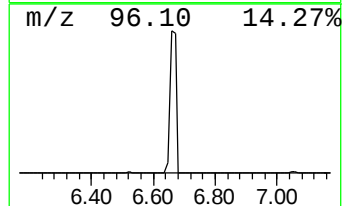
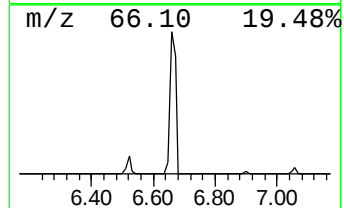
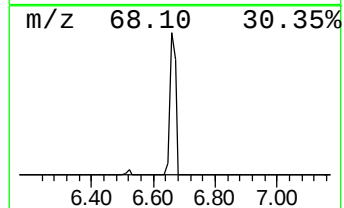
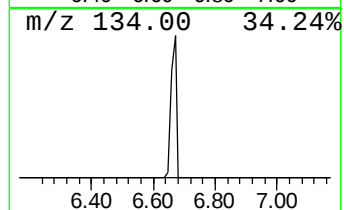
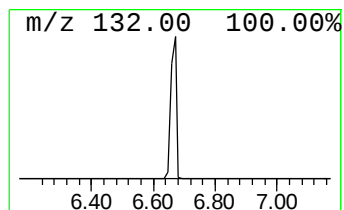
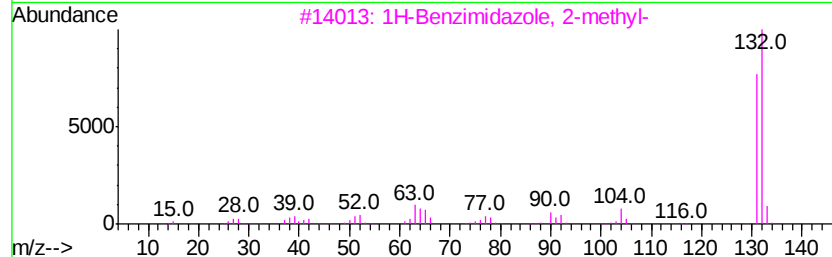
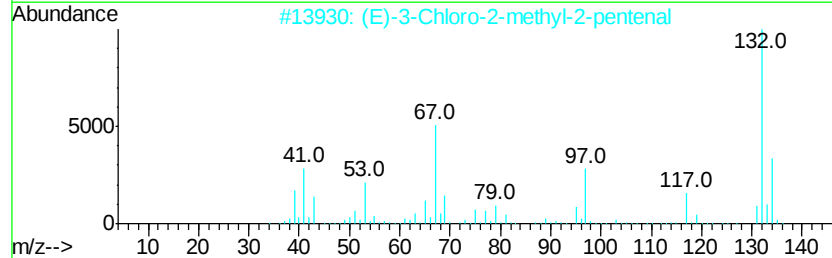
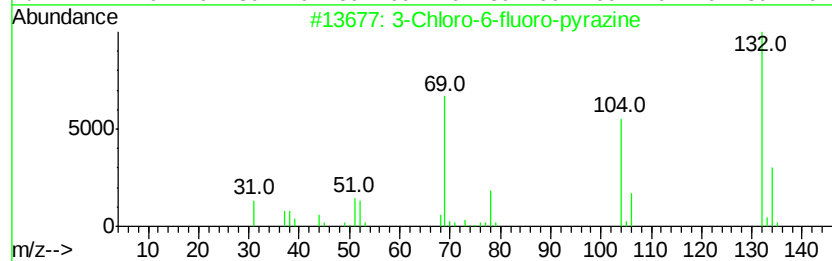
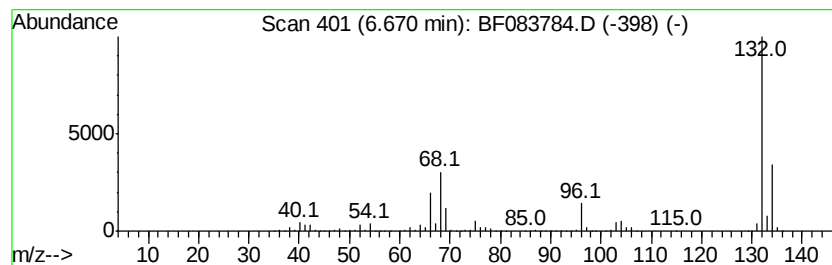
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.67 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 69.17 ng | 2362160 | 1,4-Dichlorobenzene-d4 | 6.90 |

| 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  | 16   |
| 3    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 12   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

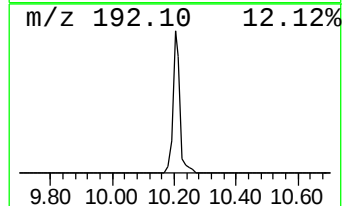
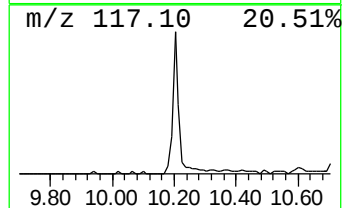
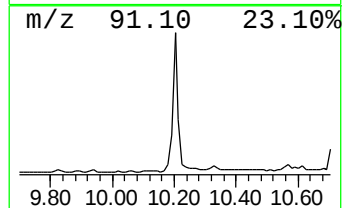
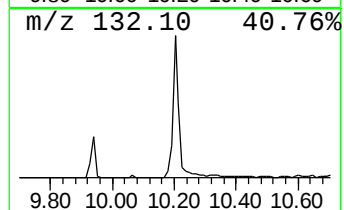
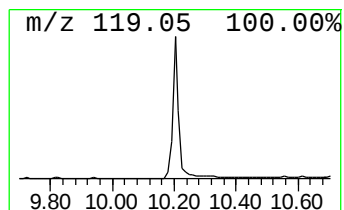
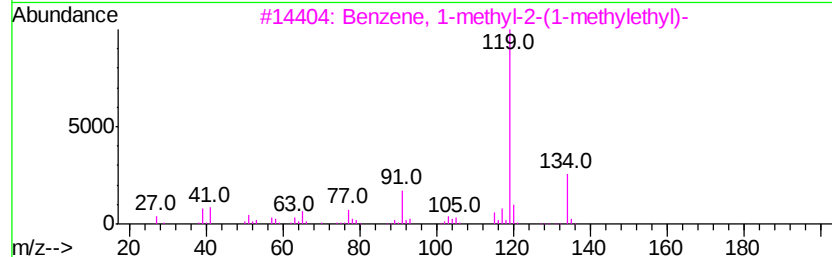
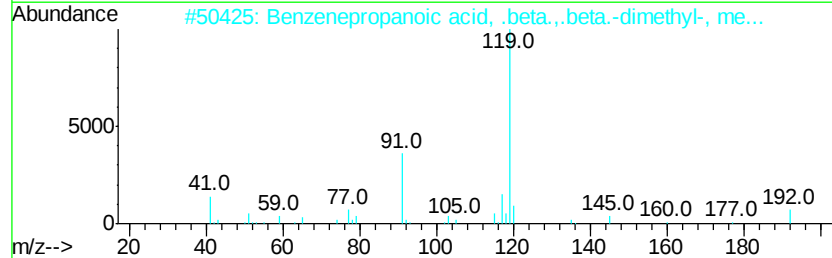
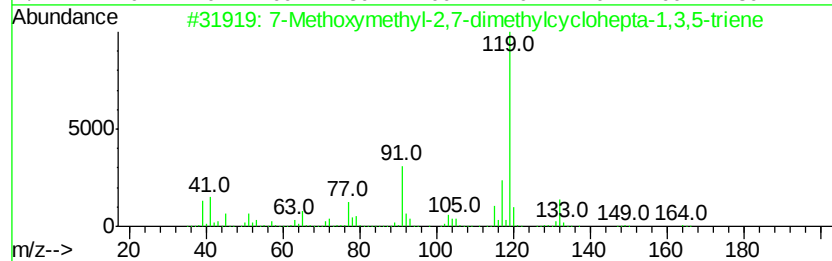
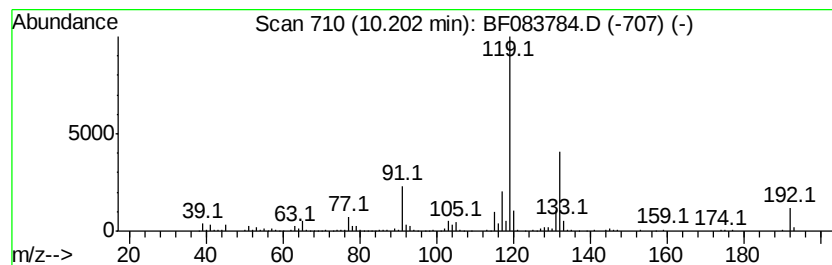
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 7-Methoxymethyl-2,7-dimethy... Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.20 | 8.01 ng | 430026 | Acenaphthene-d10 | 9.94 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 7-Methoxymethyl-2,7-dimethylcyclo... | 164 | C11H16O  | 073992-48-0 | 59   |
| 2    |    | Benzenepropanoic acid, .beta.,.b...  | 192 | C12H16O2 | 025080-84-6 | 58   |
| 3    |    | Benzene, 1-methyl-2-(1-methyleth...  | 134 | C10H14   | 000527-84-4 | 46   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14   | 000934-80-5 | 43   |
| 5    |    | Benzene, 1-methyl-4-(1-methyleth...  | 134 | C10H14   | 000099-87-6 | 43   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

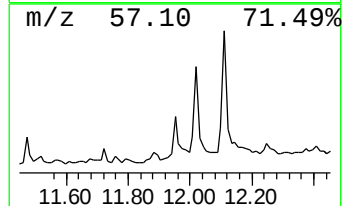
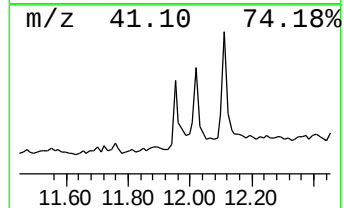
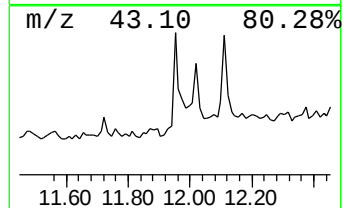
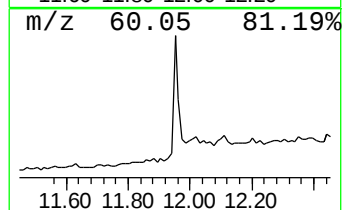
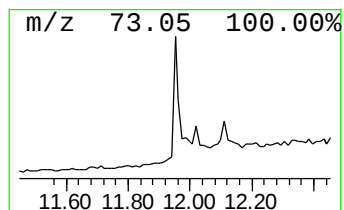
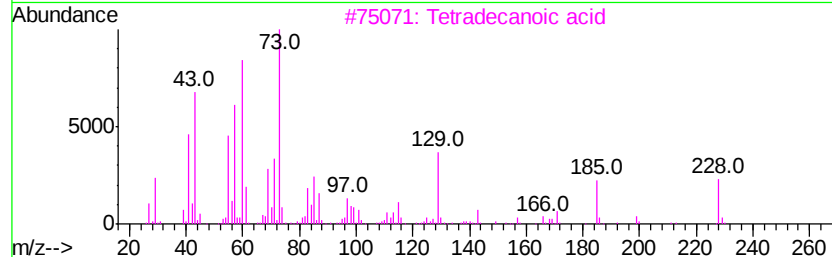
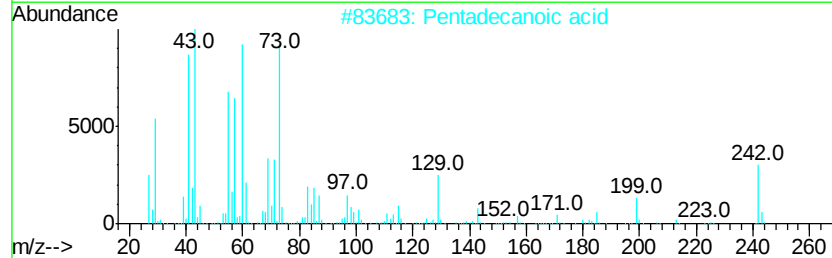
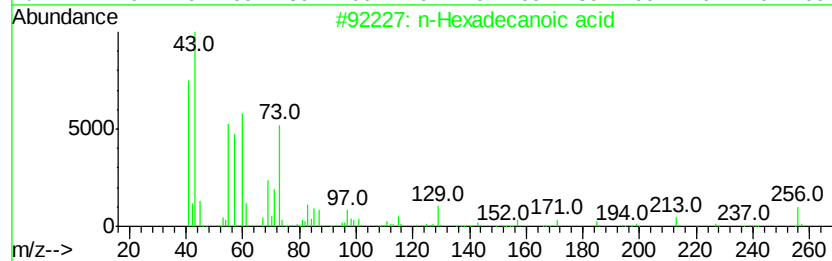
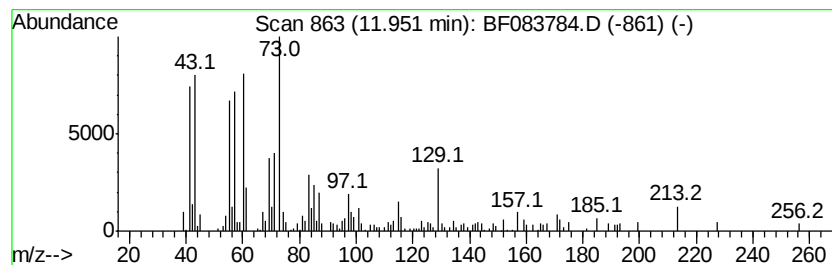
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.95 | 3.76 ng | 180243 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 90   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 86   |
| 4       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 72   |
| 5       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 68   |



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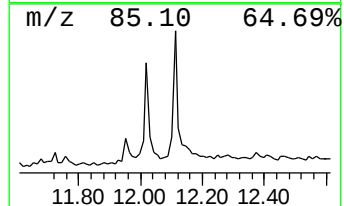
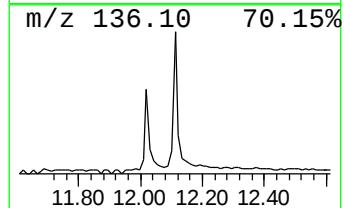
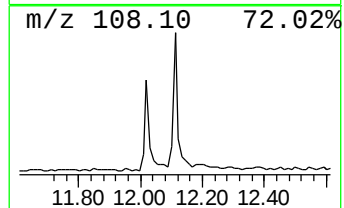
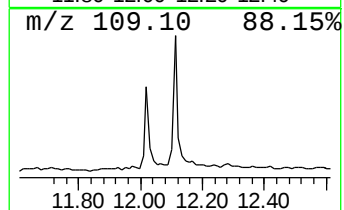
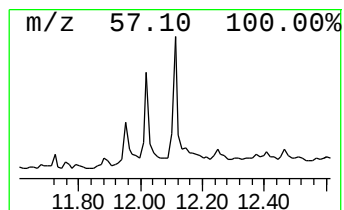
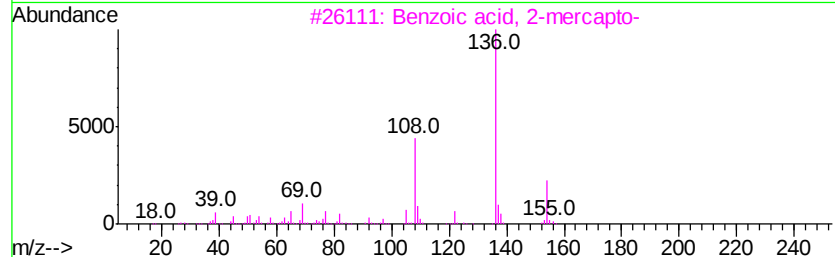
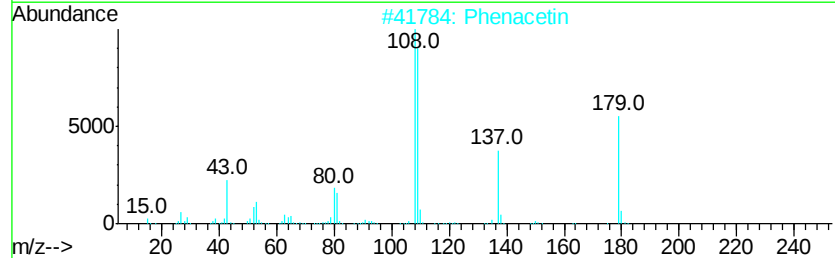
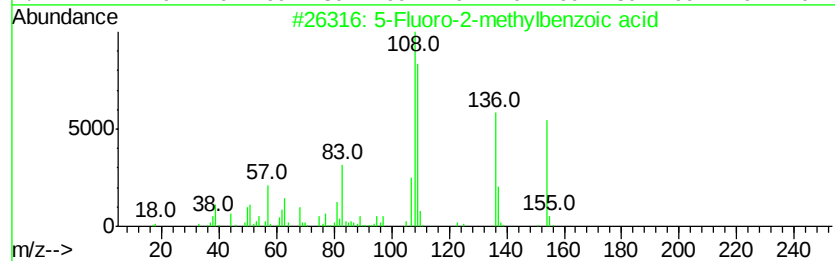
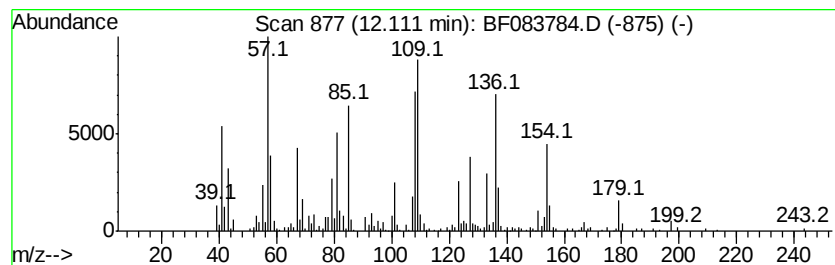
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 5-Fluoro-2-methylbenzoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.11 | 6.36 ng | 304997 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-----------|-------------|------|
| 1       |   | 5-Fluoro-2-methylbenzoic acid       | 154 | C8H7FO2   | 033184-16-6 | 60   |
| 2       |   | Phenacetin                          | 179 | C10H13NO2 | 000062-44-2 | 22   |
| 3       |   | Benzoic acid, 2-mercapto-           | 154 | C7H6O2S   | 000147-93-3 | 18   |
| 4       |   | 1H-Pyrrole-2-carboxaldehyde, 1-m... | 109 | C6H7NO    | 001192-58-1 | 14   |
| 5       |   | 3-Methyl-2-oxo-2H-pyrane-6-carbo... | 154 | C7H6O4    | 003060-68-2 | 14   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121415\  
Data File : BF083784.D  
Acq On : 14 Dec 2015 22:23  
Operator : UM/IZ  
Sample : G4761-08  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXCAVATION-WATER

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

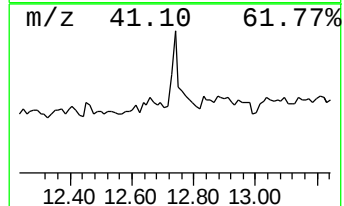
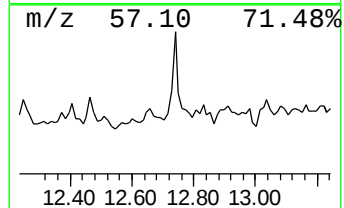
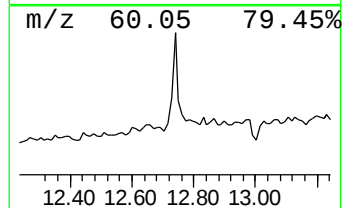
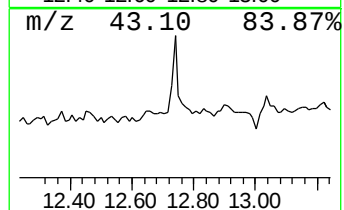
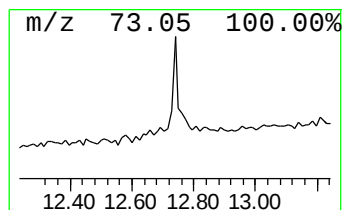
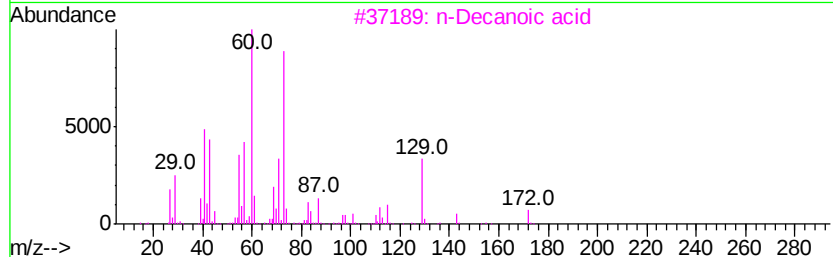
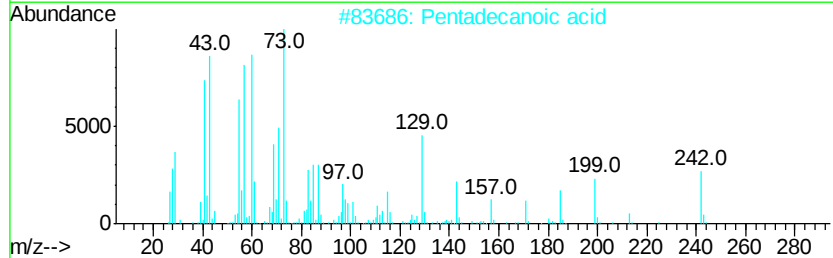
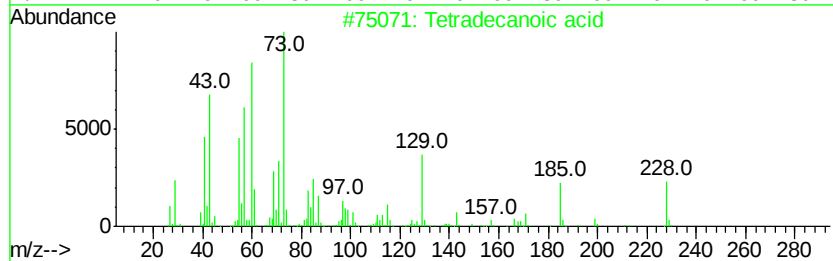
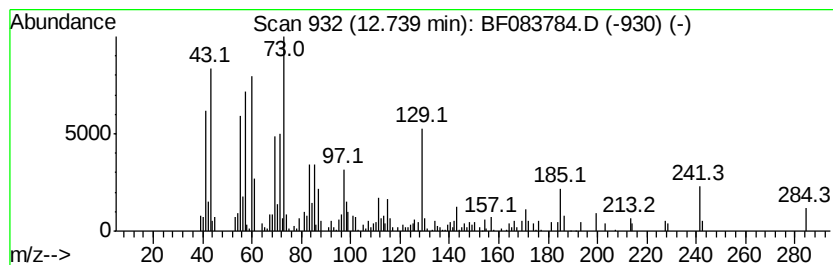
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Tetradecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.74 | 3.62 ng | 136239 | Chrysene-d12     | 14.04 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|---------|---|--------------------|-----|----------|-------------|------|
| 1       |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 94   |
| 2       |   | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 72   |
| 3       |   | n-Decanoic acid    | 172 | C10H20O2 | 000334-48-5 | 70   |
| 4       |   | Undecanoic acid    | 186 | C11H22O2 | 000112-37-8 | 62   |
| 5       |   | Tridecane          | 184 | C13H28   | 000629-50-5 | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121415\  
Data File : BF083784.D  
Acq On : 14 Dec 2015 22:23  
Operator : UM/IZ  
Sample : G4761-08  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXCAVATION-WATER

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 5.08  | 6.8     | ng    | 231003   | 1                     | 6.90  | 682981  | 20.0 |
| unknown6.67          | 6.67  | 69.2    | ng    | 2362160  | 1                     | 6.90  | 682981  | 20.0 |
| 7-Methoxymethyl-2... | 10.20 | 8.0     | ng    | 430026   | 3                     | 9.94  | 1074250 | 20.0 |
| n-Hexadecanoic acid  | 11.95 | 3.8     | ng    | 180243   | 4                     | 11.41 | 958456  | 20.0 |
| 5-Fluoro-2-methyl... | 12.11 | 6.4     | ng    | 304997   | 4                     | 11.41 | 958456  | 20.0 |
| Tetradecanoic acid   | 12.74 | 3.6     | ng    | 136239   | 5                     | 14.04 | 753394  | 20.0 |