

Data Path : Z:\HPCHEM1\BNA G\Data\BG041917\  
 Data File : BG026659.D  
 Acq On : 19 Apr 2017 16:24  
 Operator : SJ/MA  
 Sample : I2719-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VL-WWTP-001

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\_G\METHODS\8270-BG041817.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         | 5.127       | 341           | 347         | 356          | rBV      | 243835         | 368598        | 2.86%           | 0.679%        |
| 2         | 5.602       | 421           | 428         | 441          | rBV      | 632868         | 1062074       | 8.24%           | 1.958%        |
| 3         | 7.189       | 691           | 698         | 711          | rBV      | 369372         | 682216        | 5.29%           | 1.258%        |
| 4         | 7.559       | 754           | 761         | 773          | rBV      | 1306411        | 2270258       | 17.61%          | 4.185%        |
| 5         | 8.029       | 834           | 841         | 848          | rBV      | 504449         | 849845        | 6.59%           | 1.567%        |
| 6         | 8.352       | 888           | 896         | 905          | rBV      | 2016882        | 3468749       | 26.90%          | 6.394%        |
| 7         | 9.187       | 1029          | 1038        | 1049         | rBV      | 1409168        | 2589244       | 20.08%          | 4.773%        |
| 8         | 10.826      | 1308          | 1317        | 1326         | rBV      | 709303         | 1277883       | 9.91%           | 2.356%        |
| 9         | 13.264      | 1723          | 1732        | 1745         | rBV      | 4593756        | 7292772       | 56.56%          | 13.444%       |
| 10        | 14.087      | 1865          | 1872        | 1879         | rBV      | 91682          | 152554        | 1.18%           | 0.281%        |
| 11        | 14.633      | 1957          | 1965        | 1976         | rBV2     | 1148451        | 1884036       | 14.61%          | 3.473%        |
| 12        | 15.714      | 2143          | 2149        | 2152         | rBV      | 1137181        | 1741060       | 13.50%          | 3.210%        |
| 13        | 15.808      | 2160          | 2165        | 2173         | rVB      | 616207         | 1239953       | 9.62%           | 2.286%        |
| 14        | 16.114      | 2210          | 2217        | 2229         | rBV      | 2621072        | 4041385       | 31.34%          | 7.450%        |
| 15        | 17.154      | 2389          | 2394        | 2397         | rBV2     | 289997         | 423410        | 3.28%           | 0.781%        |
| 16        | 17.189      | 2397          | 2400        | 2408         | rVB      | 197900         | 286668        | 2.22%           | 0.528%        |
| 17        | 17.371      | 2424          | 2431        | 2442         | rBV      | 1672971        | 2639940       | 20.48%          | 4.867%        |
| 18        | 17.729      | 2487          | 2492        | 2497         | rBV      | 108248         | 146396        | 1.14%           | 0.270%        |
| 19        | 17.818      | 2502          | 2507        | 2510         | rVV      | 168025         | 245436        | 1.90%           | 0.452%        |
| 20        | 17.865      | 2510          | 2515        | 2523         | rVB2     | 133302         | 242648        | 1.88%           | 0.447%        |
| 21        | 18.246      | 2575          | 2580        | 2588         | rBV5     | 85336          | 180415        | 1.40%           | 0.333%        |
| 22        | 18.417      | 2602          | 2609        | 2614         | rBV3     | 182469         | 367719        | 2.85%           | 0.678%        |
| 23        | 18.476      | 2614          | 2619        | 2626         | rVB3     | 130833         | 257659        | 2.00%           | 0.475%        |
| 24        | 18.869      | 2681          | 2686        | 2690         | rBV      | 151153         | 206475        | 1.60%           | 0.381%        |
| 25        | 19.968      | 2866          | 2873        | 2882         | rBV      | 9801591        | 12893470      | 100.00%         | 23.768%       |
| 26        | 21.613      | 3146          | 3153        | 3166         | rBV      | 2023981        | 3391003       | 26.30%          | 6.251%        |
| 27        | 24.780      | 3682          | 3692        | 3704         | rBV      | 1197153        | 3233461       | 25.08%          | 5.961%        |
| 28        | 25.843      | 3863          | 3873        | 3885         | rVB5     | 257436         | 811038        | 6.29%           | 1.495%        |

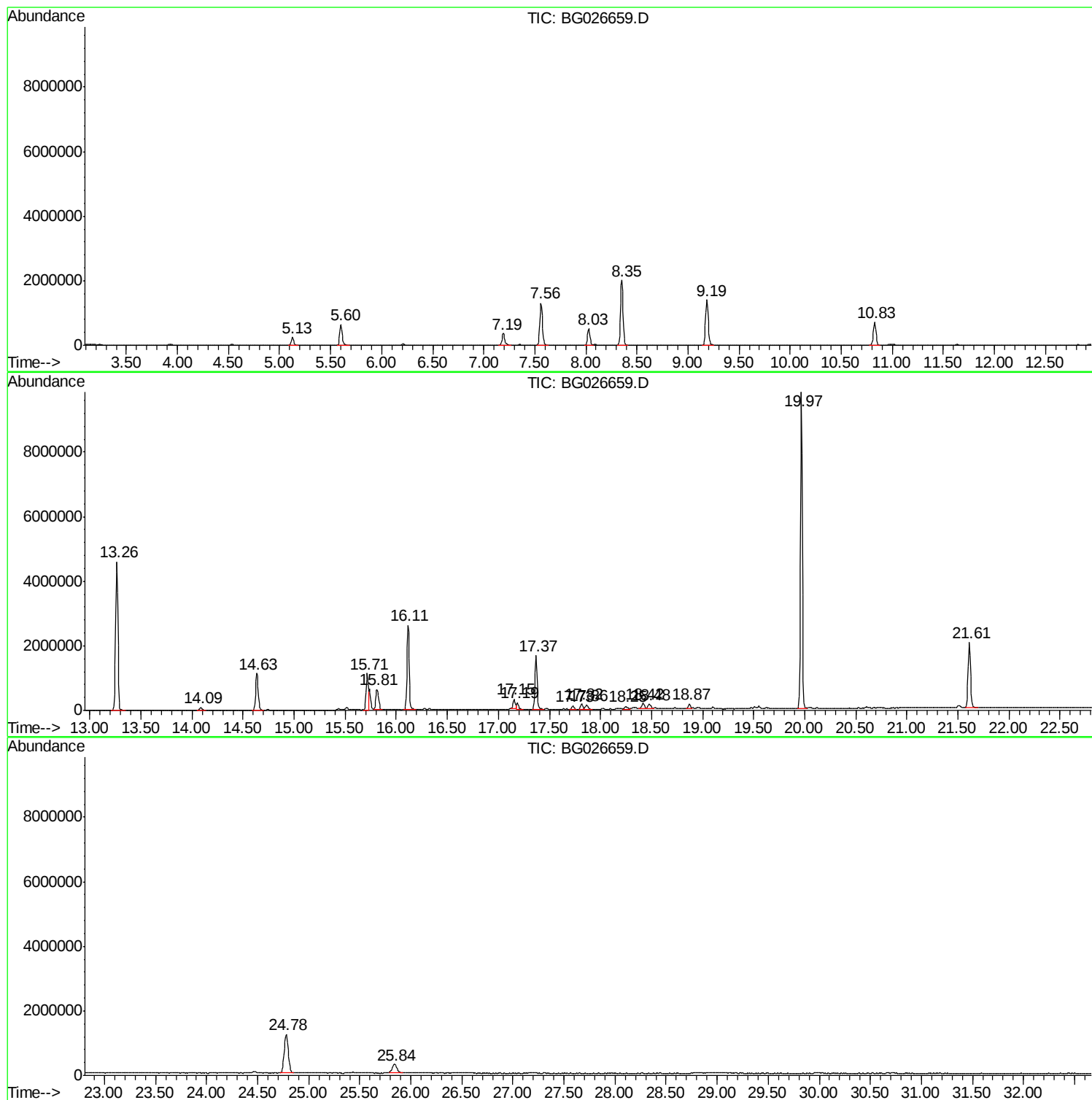
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ClientSampleId :  
VL-WWTP-001

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041817.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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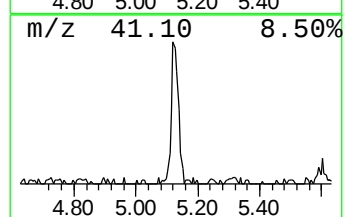
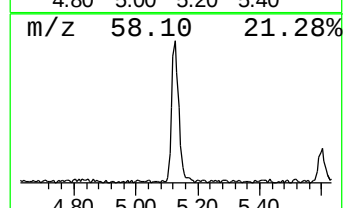
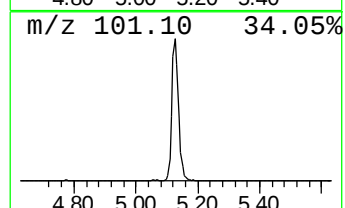
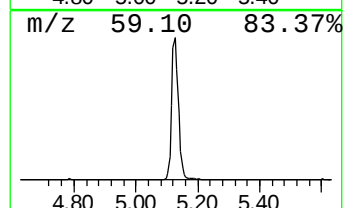
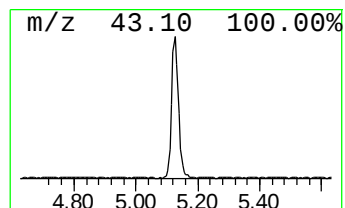
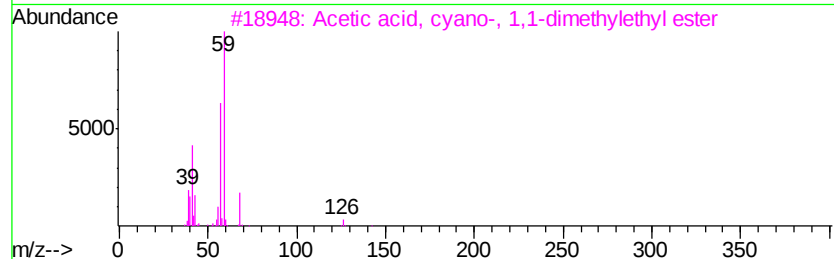
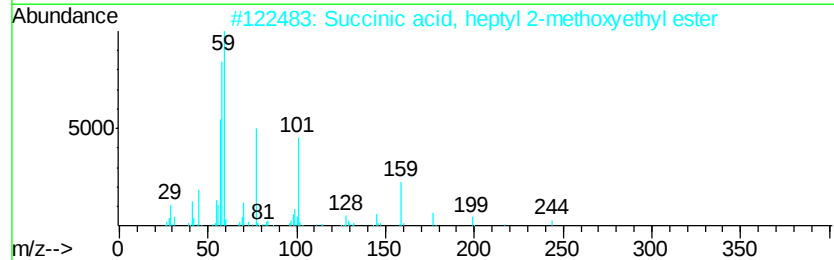
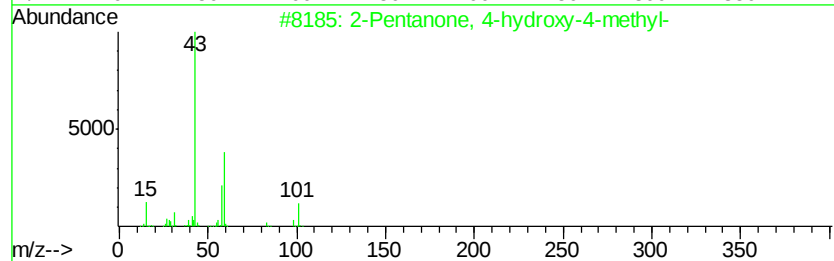
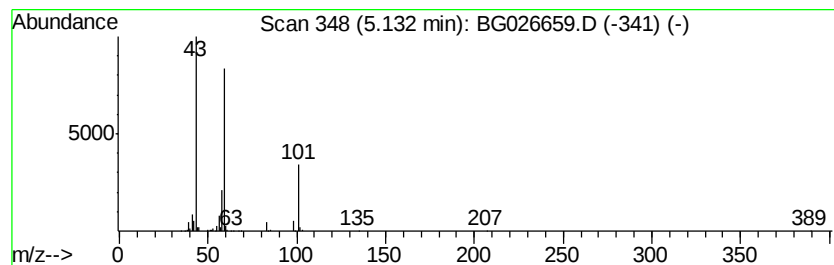
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.13 | 8.67 ng | 368598 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | Tentative ID                                 | MW  | MolForm  | CAS#         | Qual |
|------|----|----------------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-             | 116 | C6H12O2  | 000123-42-2  | 50   |
| 2    |    | Succinic acid, heptyl 2-methoxyethyl ester   | 274 | C14H26O5 | 1000325-80-7 | 33   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethylethyl ester | 141 | C7H11NO2 | 001116-98-9  | 25   |
| 4    |    | Propane, 1-ethoxy-2-methyl-                  | 102 | C6H14O   | 000627-02-1  | 25   |
| 5    |    | (+)-4-Amino-4,5-dihydro-2(3H)-furan          | 101 | C4H7NO2  | 016504-58-8  | 16   |



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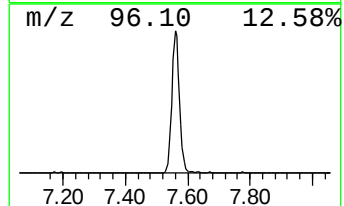
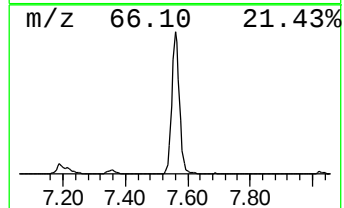
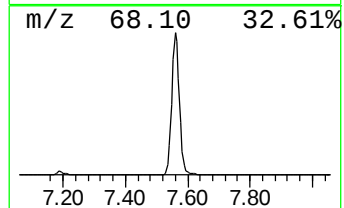
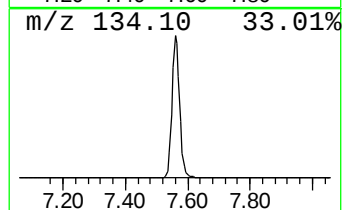
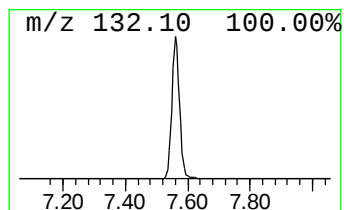
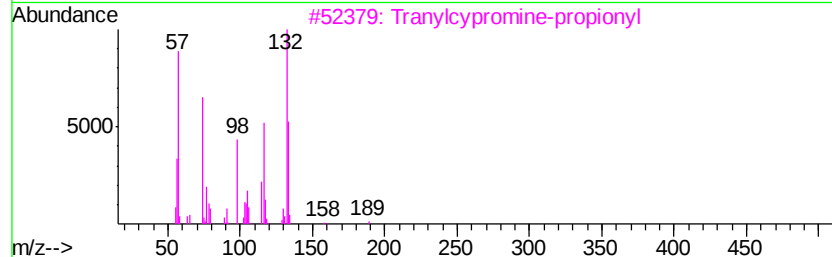
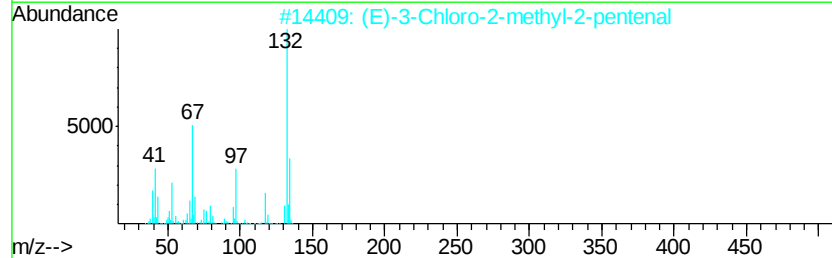
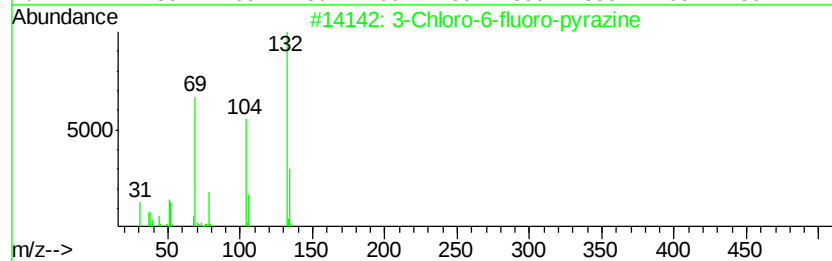
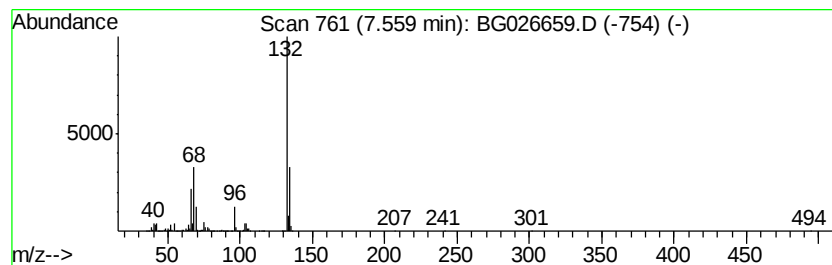
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown7.56 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.56 | 53.43 ng | 2270260 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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VL-WWTP-001

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041817.M  
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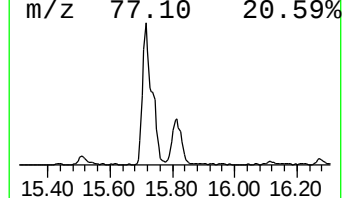
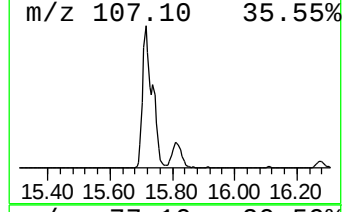
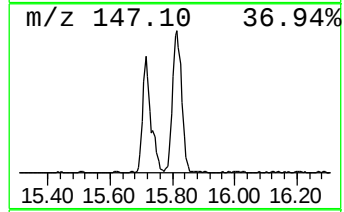
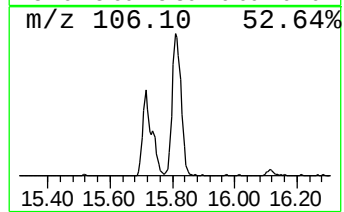
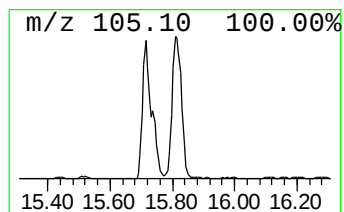
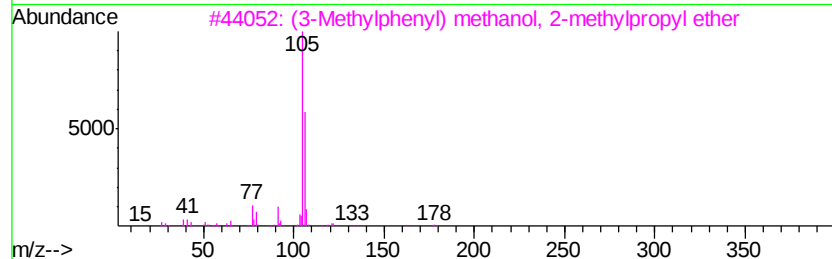
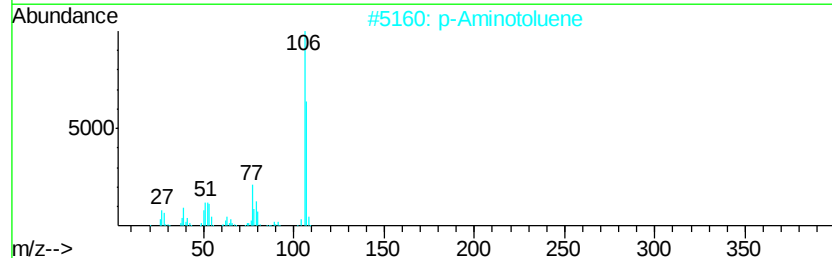
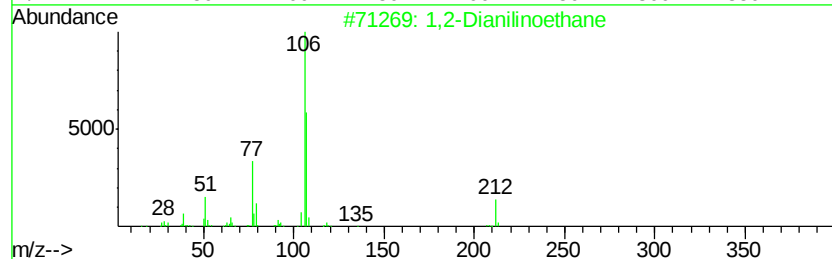
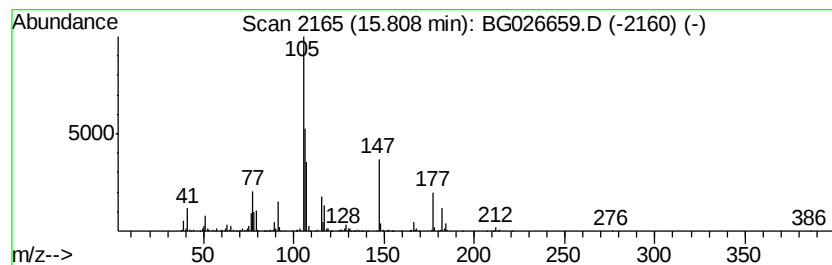
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown15.81 Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.81 | 13.16 ng | 1239950 | Acenaphthene-d10 | 14.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,2-Dianilinoethane                 | 212 | C14H16N2 | 000150-61-8  | 41   |
| 2    |    | p-Aminotoluene                      | 107 | C7H9N    | 000106-49-0  | 38   |
| 3    |    | (3-Methylphenyl) methanol, 2-met... | 178 | C12H18O  | 1000374-58-2 | 35   |
| 4    |    | (3-Methylphenyl) methanol, 2-met... | 192 | C13H20O  | 1000374-43-9 | 35   |
| 5    |    | Benzylamine                         | 107 | C7H9N    | 000100-46-9  | 30   |



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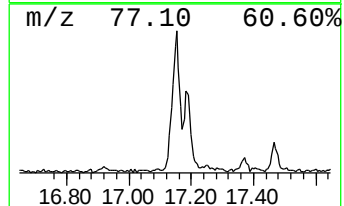
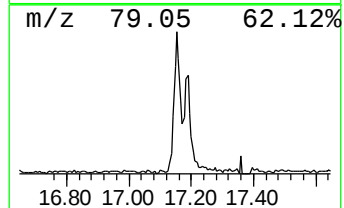
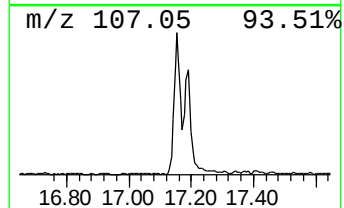
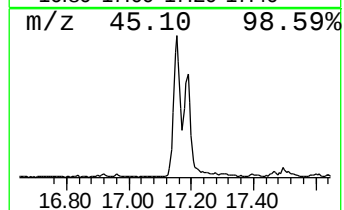
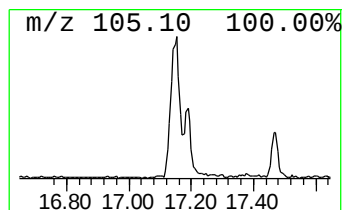
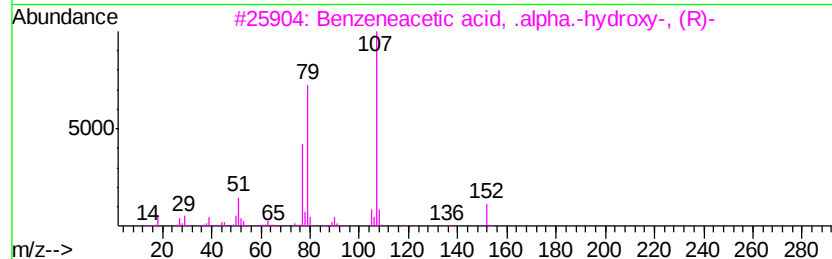
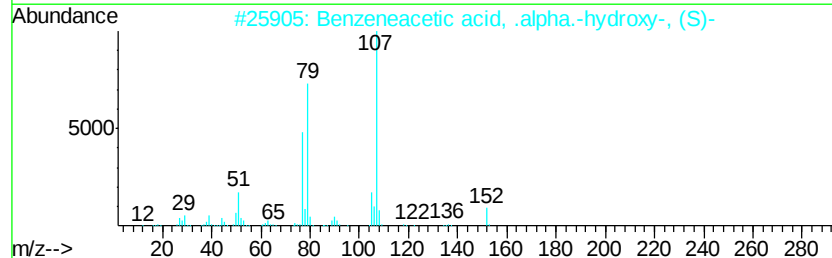
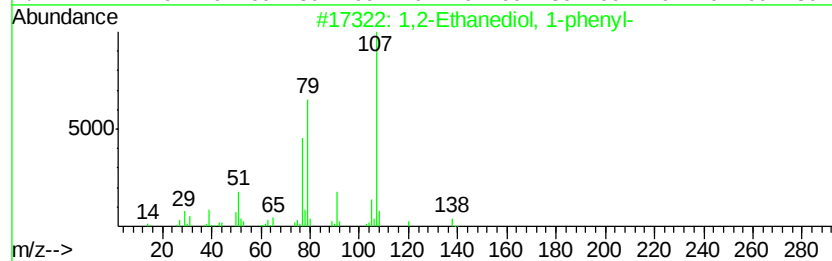
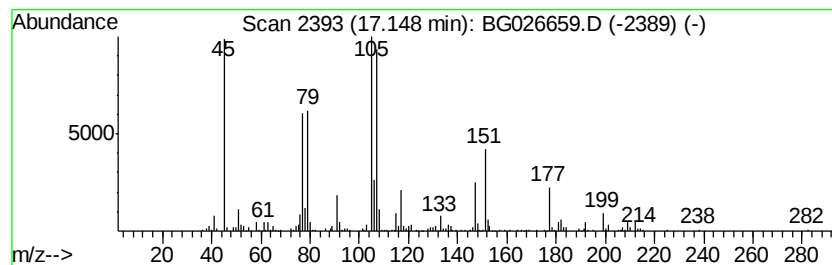
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Peak Number 6 unknown17.15 Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.15 | 3.21 ng | 423410 | Phenanthrene-d10 | 17.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 1,2-Ethanediol, 1-phenyl-           | 138 | C8H10O2   | 000093-56-1 | 46   |
| 2    |    | Benzeneacetic acid, .alpha.-hydr... | 152 | C8H8O3    | 017199-29-0 | 41   |
| 3    |    | Benzeneacetic acid, .alpha.-hydr... | 152 | C8H8O3    | 000611-71-2 | 38   |
| 4    |    | Ethanol, 2-(3,3-dimethylbicyclo[... | 166 | C11H18O   | 002226-05-3 | 38   |
| 5    |    | 2-Oxazolidinone, 4-methyl-5-phen... | 177 | C10H11NO2 | 028044-22-6 | 35   |



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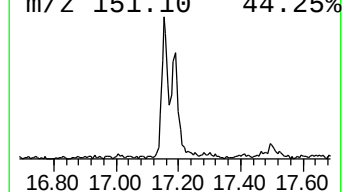
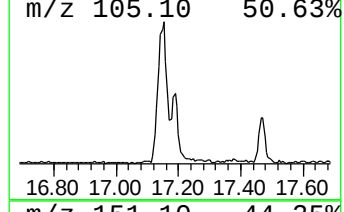
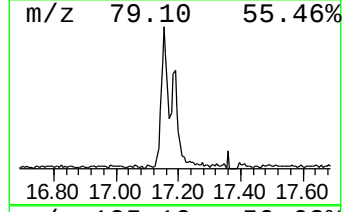
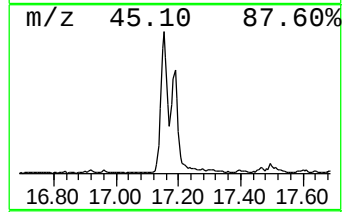
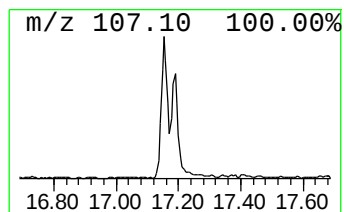
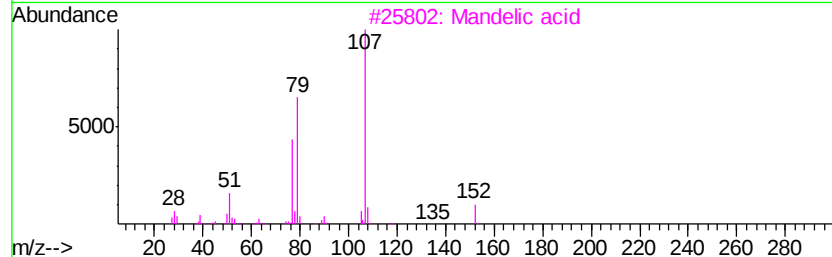
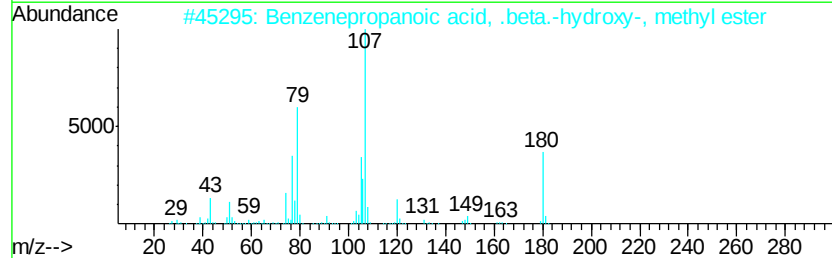
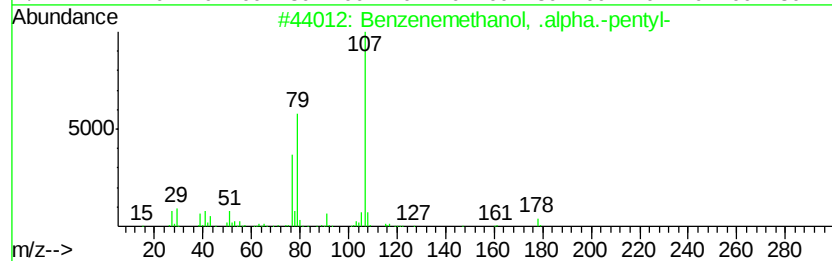
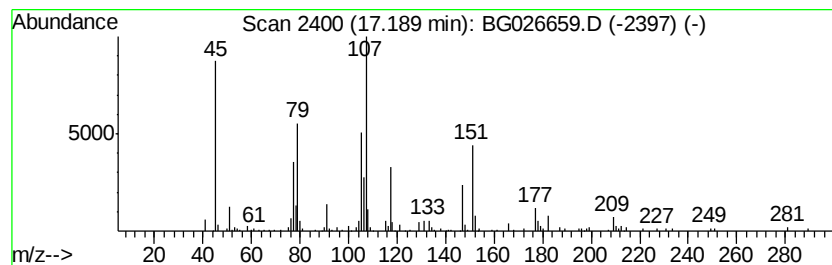
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown17.19 Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.19 | 2.17 ng | 286668 | Phenanthrene-d10 | 17.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Benzenemethanol, .alpha.-pentyl-    | 178 | C12H18O   | 004471-05-0 | 46   |
| 2    |    | Benzenepropanoic acid, .beta.-hy... | 180 | C10H12O3  | 007497-61-2 | 45   |
| 3    |    | Mandelic acid                       | 152 | C8H8O3    | 000090-64-2 | 38   |
| 4    |    | (4R,5S)-(+)-4-Methyl-5-phenyl-2-... | 177 | C10H11NO2 | 077943-39-6 | 38   |
| 5    |    | Ethanol, 2-methoxyphenyl-           | 152 | C9H12O2   | 072403-22-6 | 38   |



Data Path : Z:\HPCHEM1\BNA G\Data\BG041917\  
Data File : BG026659.D  
Acq On : 19 Apr 2017 16:24  
Operator : SJ/MA  
Sample : I2719-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

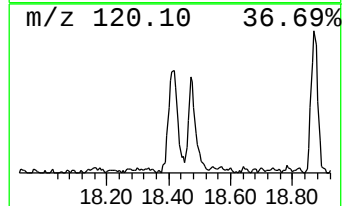
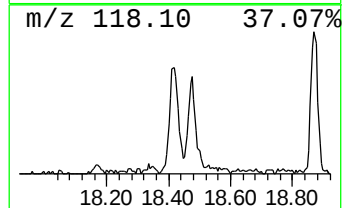
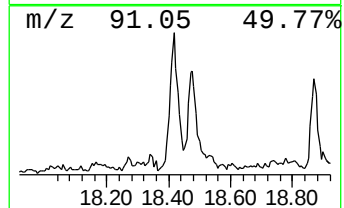
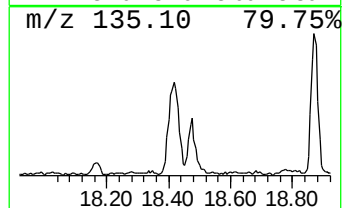
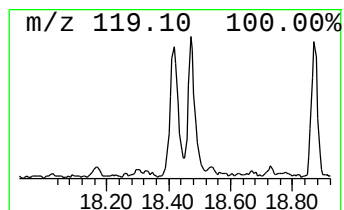
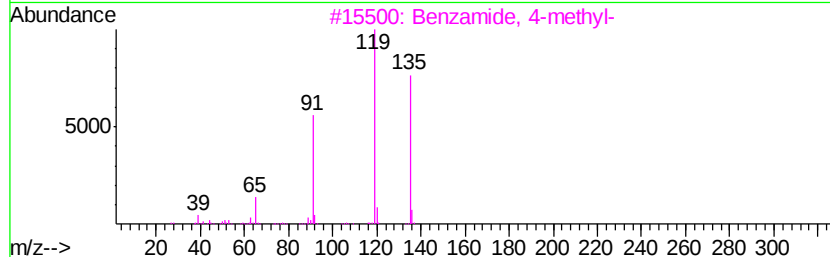
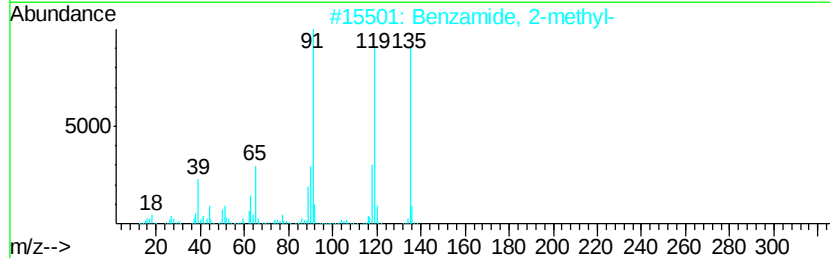
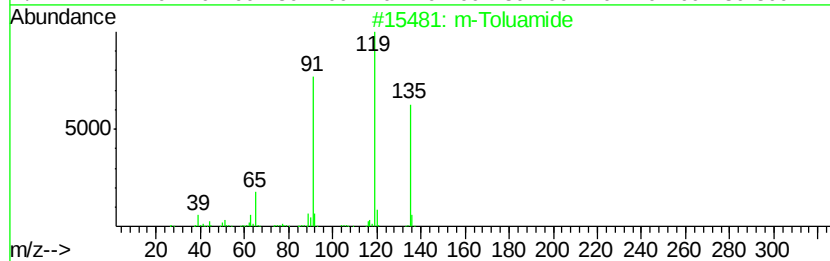
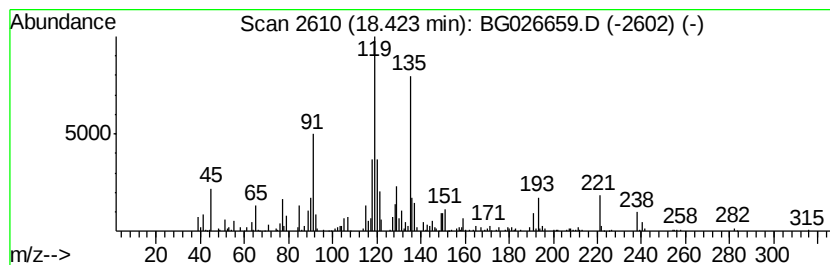
Instrument :  
BNA\_G  
ClientSampleId :  
VL-WWTP-001

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041817.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 8 m-Toluamide Concentration Rank 8

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|-------------|------|
| 18.42     | 2.79 ng                              | 367719 | Phenanthrene-d10 | 17.37       |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual |
| 1         | m-Toluamide                          | 135    | C8H9NO           | 000618-47-3 | 53   |
| 2         | Benzamide, 2-methyl-                 | 135    | C8H9NO           | 000527-85-5 | 52   |
| 3         | Benzamide, 4-methyl-                 | 135    | C8H9NO           | 000619-55-6 | 47   |
| 4         | Benzoic acid, 2-amino-, propyl e...  | 179    | C10H13NO2        | 030954-98-4 | 35   |
| 5         | p-Toluic acid, 2,2-dimethylpropyl... | 206    | C13H18O2         | 069912-01-2 | 25   |



Data Path : Z:\HPCHEM1\BNA G\Data\BG041917\  
Data File : BG026659.D  
Acq On : 19 Apr 2017 16:24  
Operator : SJ/MA  
Sample : I2719-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
VL-WWTP-001

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

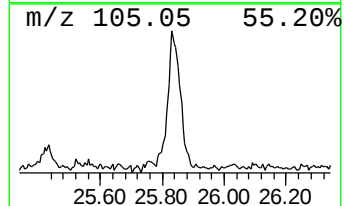
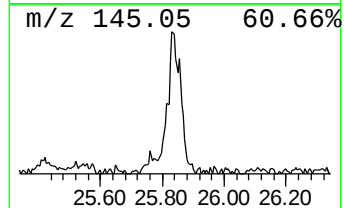
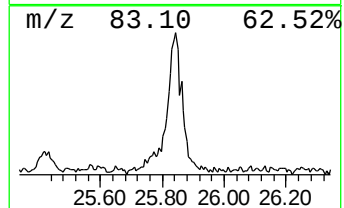
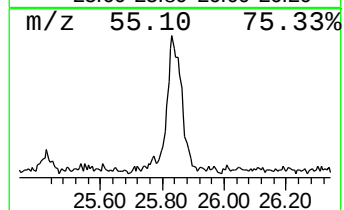
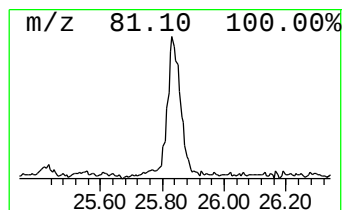
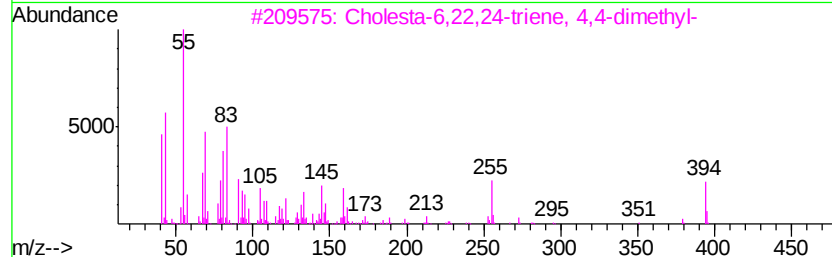
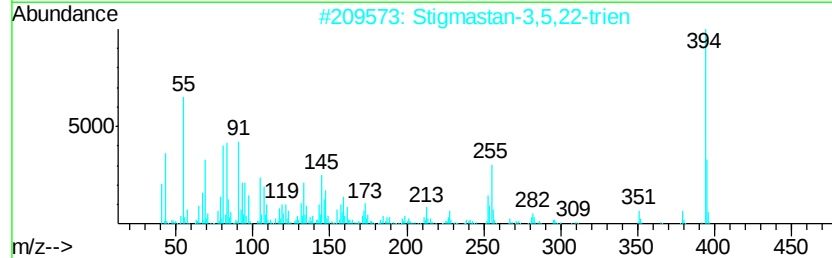
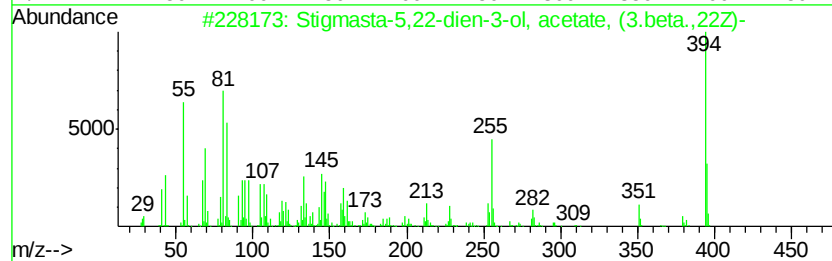
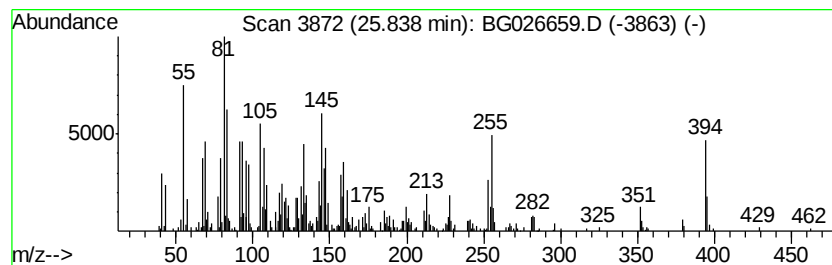
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Stigmasta-5,22-dien-3-ol, a... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 25.84 | 5.02 ng | 811038 | Perylene-d12     | 24.78 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Stigmasta-5,22-dien-3-ol, acetat... | 454 | C31H50O2  | 054482-54-1  | 87   |
| 2    |    | Stigmastan-3,5,22-trien             | 394 | C29H46    | 1000214-18-1 | 86   |
| 3    |    | Cholesta-6,22,24-triene, 4,4-dim... | 394 | C29H46    | 1000128-66-9 | 76   |
| 4    |    | Stigmasteryl tosylate               | 566 | C36H54O3S | 053139-42-7  | 43   |
| 5    |    | Stigmastan-6,22-dien, 3,5-dedihy... | 394 | C29H46    | 107304-12-1  | 38   |



Data Path : Z:\HPCHEM1\BNA\_G\Data\BG041917\  
Data File : BG026659.D  
Acq On : 19 Apr 2017 16:24  
Operator : SJ/MA  
Sample : I2719-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
VL-WWTP-001

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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... | 5.13  | 8.7     | ng    | 368598   | 1                     | 8.03  | 849845  | 20.0 |
| unknown7.56          | 7.56  | 53.4    | ng    | 2270260  | 1                     | 8.03  | 849845  | 20.0 |
| unknown15.81         | 15.81 | 13.2    | ng    | 1239950  | 3                     | 14.63 | 1884040 | 20.0 |
| unknown17.15         | 17.15 | 3.2     | ng    | 423410   | 4                     | 17.37 | 2639940 | 20.0 |
| unknown17.19         | 17.19 | 2.2     | ng    | 286668   | 4                     | 17.37 | 2639940 | 20.0 |
| m-Toluamide          | 18.42 | 2.8     | ng    | 367719   | 4                     | 17.37 | 2639940 | 20.0 |
| Stigmasta-5,22-di... | 25.84 | 5.0     | ng    | 811038   | 6                     | 24.78 | 3233460 | 20.0 |