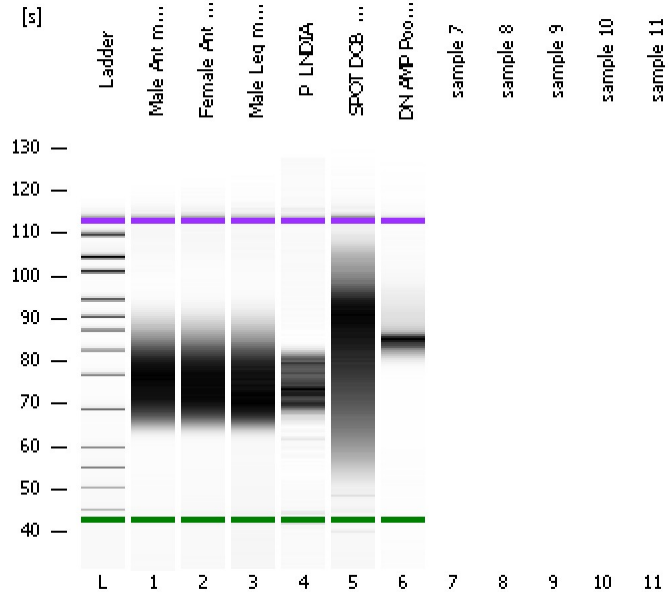


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
Modified: 3/21/2013 3:13:56 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

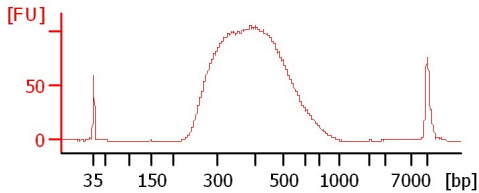
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

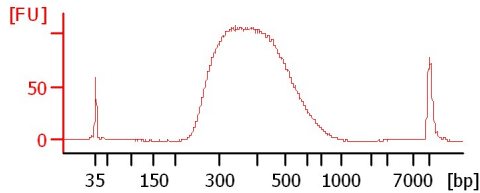
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

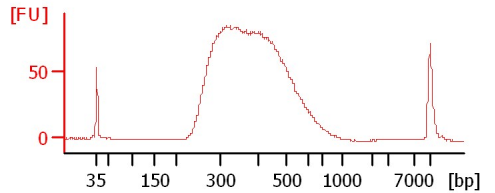
**Male Ant mRNA Lib 1:3**



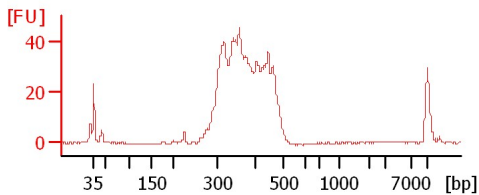
**Female Ant mRNA Lib 1:2**



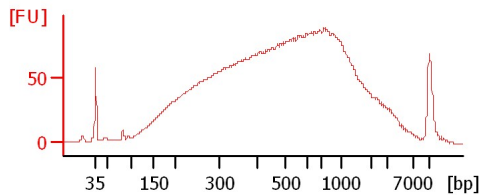
**Male Leg mRNA Lib 1:3**



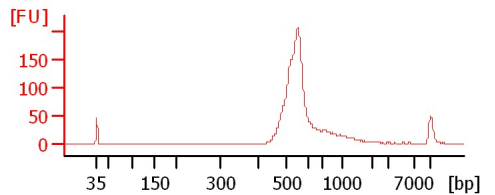
**P\_LNDIA**



**SPOT DOB\_MG 1:2**



**DN AMP Pool USC 1:3**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
Modified: 3/21/2013 3:13:56 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name             | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Male Ant mRNA Lib 1:3   |                | <input type="checkbox"/> | ✓      |             |              |              |
| Female Ant mRNA Lib 1:2 |                | <input type="checkbox"/> | ✓      |             |              |              |
| Male Leg mRNA Lib 1:3   |                | <input type="checkbox"/> | ✓      |             |              |              |
| P_LNDIA                 |                | <input type="checkbox"/> | ✓      |             |              |              |
| SPOT DOB_MG 1:2         |                | <input type="checkbox"/> | ✓      |             |              |              |
| DN AMP Pool USC 1:3     |                | <input type="checkbox"/> | ✓      |             |              |              |
| sample 7                |                | <input type="checkbox"/> |        |             |              |              |
| sample 8                |                | <input type="checkbox"/> |        |             |              |              |
| sample 9                |                | <input type="checkbox"/> |        |             |              |              |
| sample 10               |                | <input type="checkbox"/> |        |             |              |              |
| sample 11               |                | <input type="checkbox"/> |        |             |              |              |
| Ladder                  |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
Modified: 3/21/2013 3:13:56 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

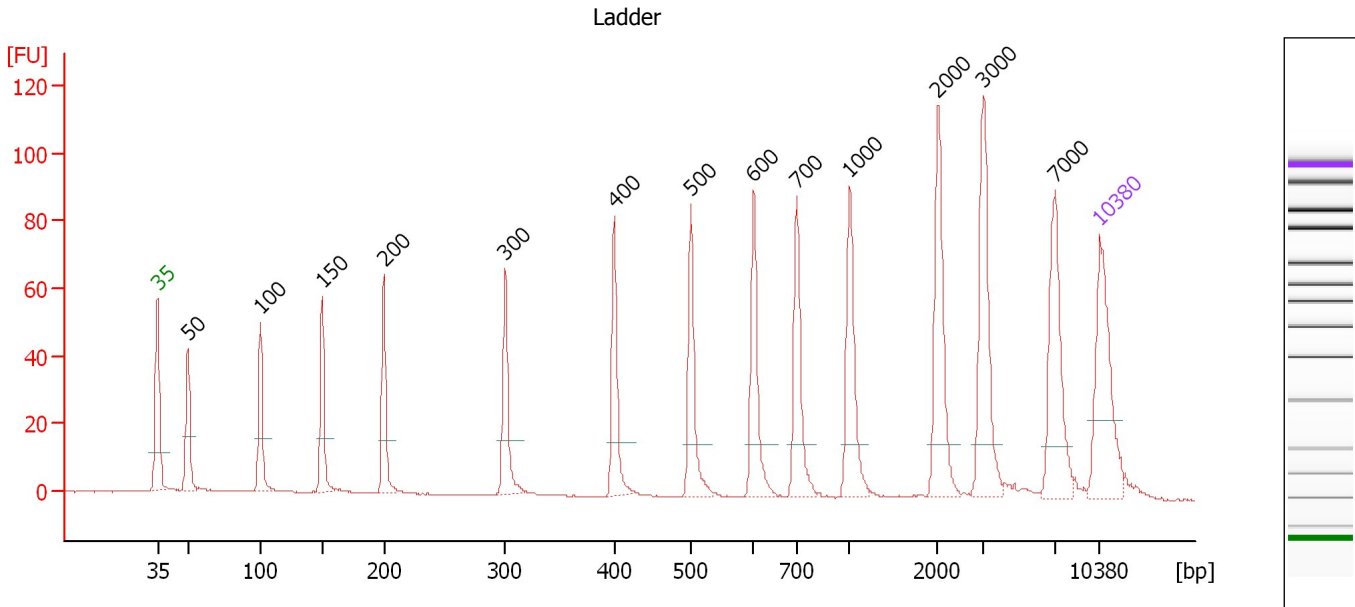
**Ladder**

| Ladder Peak | Size  | Area |
|-------------|-------|------|
| 1           | 35    | 160  |
| 2           | 50    | 210  |
| 3           | 100   | 208  |
| 4           | 150   | 221  |
| 5           | 200   | 242  |
| 6           | 300   | 270  |
| 7           | 400   | 305  |
| 8           | 500   | 306  |
| 9           | 600   | 336  |
| 10          | 700   | 321  |
| 11          | 1000  | 366  |
| 12          | 2000  | 413  |
| 13          | 3000  | 411  |
| 14          | 7000  | 400  |
| 15          | 10380 | 214  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

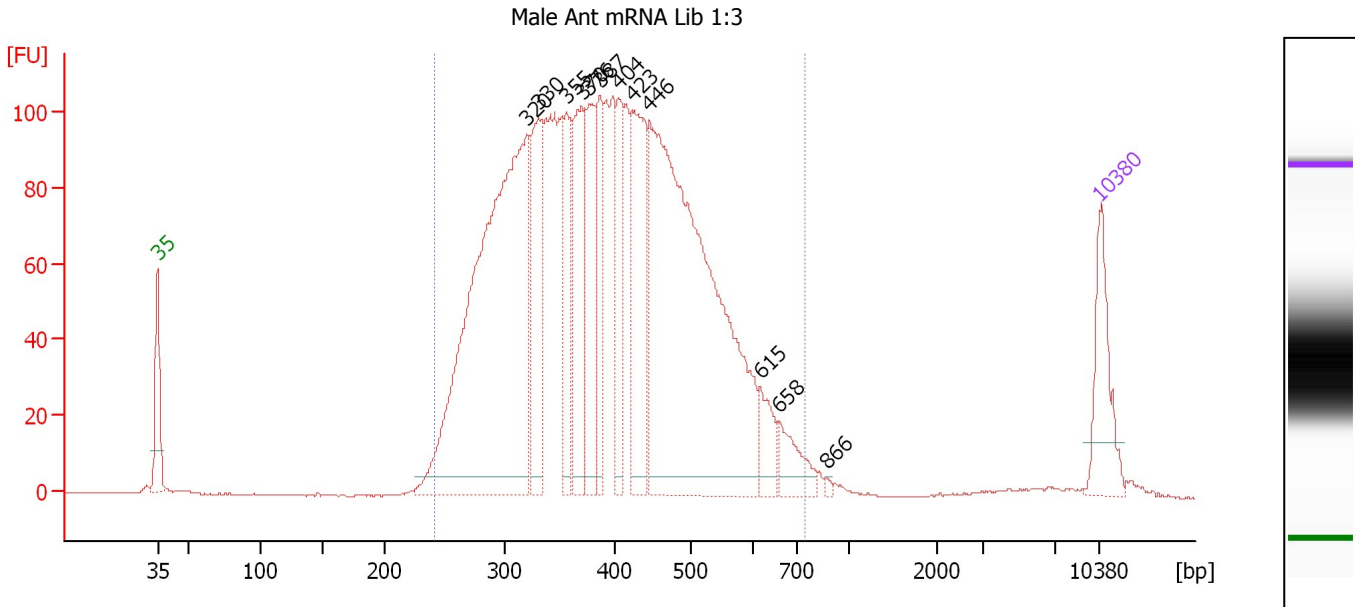
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Male Ant mRNA Lib 1:3**

Number of peaks found: 12      Corr. Area 1: 2,651.1  
 Noise: 0.2

**Peak table for sample 1 : Male Ant mRNA Lib 1:3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 320       | 900.63        | 4,270.9           |              |
| 3    | 330       | 177.82        | 816.2             |              |
| 4    | 355       | 114.17        | 486.6             |              |
| 5    | 370       | 159.43        | 652.4             |              |
| 6    | 376       | 151.62        | 610.9             |              |
| 7    | 387       | 102.50        | 401.1             |              |
| 8    | 404       | 106.58        | 399.4             |              |
| 9    | 423       | 202.20        | 724.0             |              |
| 10   | 446       | 872.71        | 2,966.2           |              |
| 11   | 615       | 48.29         | 119.0             |              |
| 12   | 658       | 49.69         | 114.4             |              |
| 13   | 866       | 3.64          | 6.4               |              |
| 14   | 10,380    | 75.00         | 10.9              | Upper Marker |

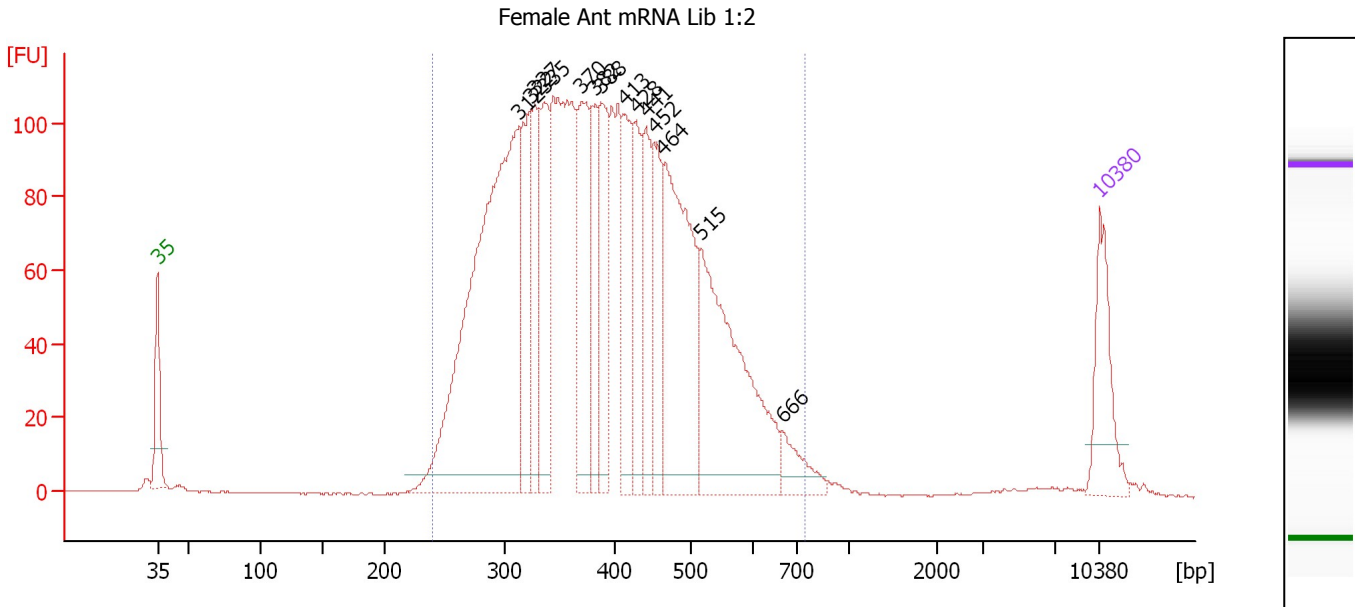
**Region table for sample 1 : Male Ant mRNA Lib 1:3**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 243       | 746     | 404               | 14,111.7          | 3,473.71      | 2,651.1    | 97         | 24.0                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Female Ant mRNA Lib 1:2**

Number of peaks found: 14      Corr. Area 1: 2,740.4  
 Noise: 0.2

**Peak table for sample 2 : Female Ant mRNA Lib 1:2**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 312       | 773.28        | 3,753.7           |              |
| 3    | 322       | 152.33        | 715.9             |              |
| 4    | 327       | 129.93        | 602.6             |              |
| 5    | 335       | 153.66        | 694.3             |              |
| 6    | 370       | 173.37        | 710.2             |              |
| 7    | 382       | 107.20        | 425.4             |              |
| 8    | 388       | 135.76        | 530.5             |              |
| 9    | 413       | 133.61        | 489.8             |              |
| 10   | 428       | 108.62        | 384.6             |              |
| 11   | 441       | 124.31        | 427.1             |              |
| 12   | 452       | 93.37         | 313.1             |              |
| 13   | 464       | 317.44        | 1,036.4           |              |
| 14   | 515       | 342.69        | 1,007.7           |              |
| 15   | 666       | 41.27         | 94.0              |              |
| 16   | 10,380    | 75.00         | 10.9              | Upper Marker |

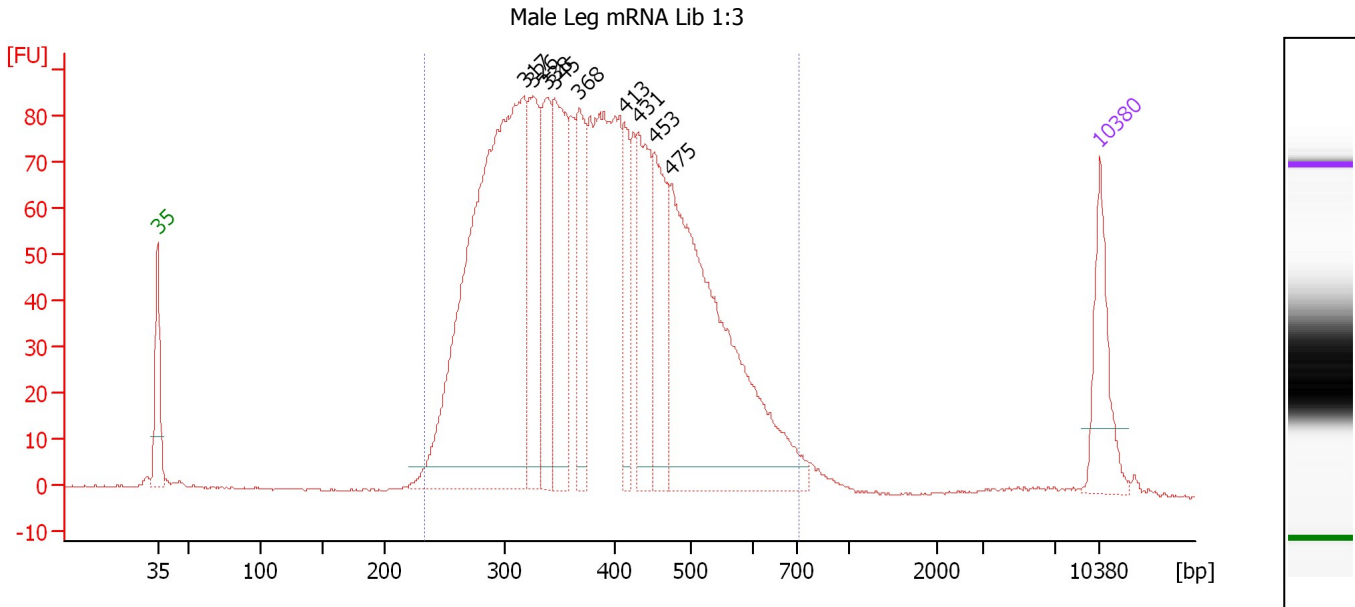
**Region table for sample 2 : Female Ant mRNA Lib 1:2**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 241       | 751     | 400               | 13,684.3          | 3,340.22      | 2,740.4    | 97         | 24.0                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Male Leg mRNA Lib 1:3**

Number of peaks found: 9      Corr. Area 1: 2,196.9  
 Noise: 0.2

**Peak table for sample 3 : Male Leg mRNA Lib 1:3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 317       | 918.87        | 4,394.2           |              |
| 3    | 326       | 181.29        | 843.6             |              |
| 4    | 338       | 143.63        | 643.4             |              |
| 5    | 345       | 208.37        | 914.2             |              |
| 6    | 368       | 135.76        | 559.2             |              |
| 7    | 413       | 82.37         | 302.4             |              |
| 8    | 431       | 156.36        | 550.0             |              |
| 9    | 453       | 148.18        | 496.0             |              |
| 10   | 475       | 564.08        | 1,801.0           |              |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker |

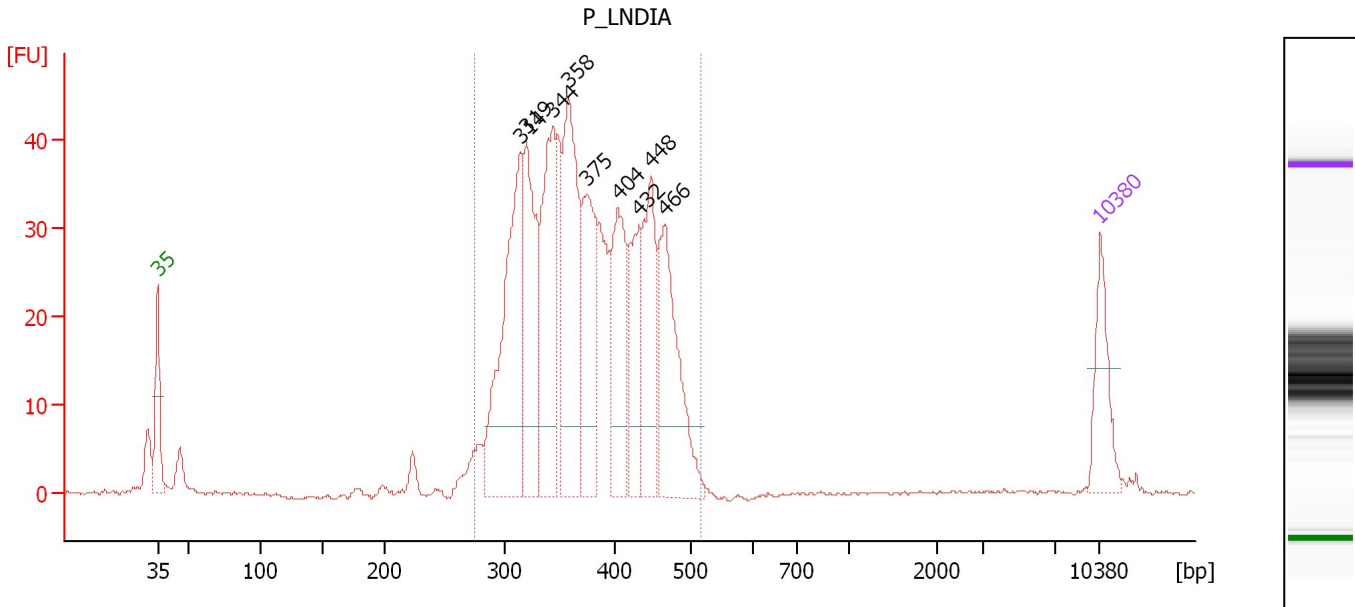
**Region table for sample 3 : Male Leg mRNA Lib 1:3**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 234       | 713     | 393               | 13,189.4          | 3,156.80      | 2,196.8    | 97         | 24.4                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : P\_LNDIA**

Height Threshold [FU] : 8

**Overall Results for sample 4 : P\_LNDIA**

Number of peaks found: 9                      Corr. Area 1: 630.9  
 Noise: 0.2

**Peak table for sample 4 : P\_LNDIA**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 314       | 382.71        | 1,848.9           |              |
| 3    | 319       | 246.63        | 1,170.6           |              |
| 4    | 344       | 268.62        | 1,183.8           |              |
| 5    | 358       | 305.69        | 1,294.6           |              |
| 6    | 375       | 203.42        | 822.9             |              |
| 7    | 404       | 195.58        | 732.9             |              |
| 8    | 432       | 128.24        | 449.6             |              |
| 9    | 448       | 193.29        | 653.5             |              |
| 10   | 466       | 246.10        | 800.8             |              |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker |

**Region table for sample 4 : P\_LNDIA**

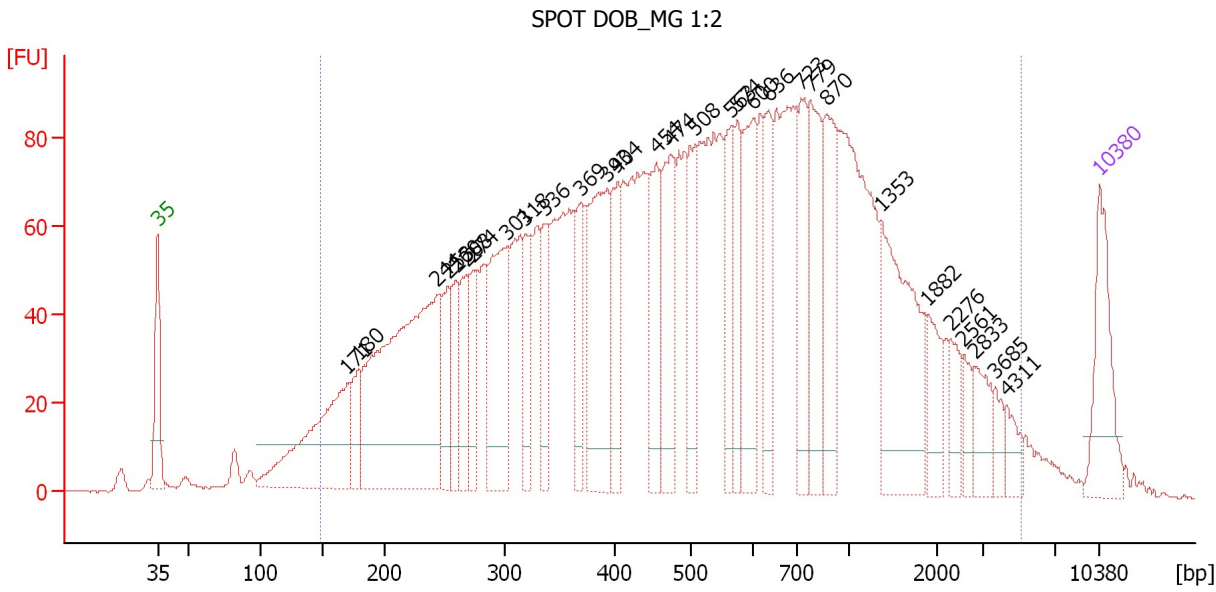
| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 274       | 514     | 377               | 9,971.3           | 2,417.28      | 630.9      | 95         | 14.7                        | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : SPOT DOB MG 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 5 : SPOT DOB MG 1:2**

Number of peaks found: 30                      Corr. Area 1: 3,847.6  
 Noise: 0.2

**Peak table for sample 5 : SPOT DOB MG 1:2**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 171       | 244.43        | 2,170.2           |              |
| 3    | 180       | 57.68         | 485.0             |              |
| 4    | 244       | 503.13        | 3,127.8           |              |
| 5    | 253       | 82.32         | 493.2             |              |
| 6    | 260       | 64.71         | 377.8             |              |
| 7    | 268       | 69.82         | 395.2             |              |
| 8    | 274       | 65.77         | 363.9             |              |
| 9    | 301       | 169.25        | 852.0             |              |
| 10   | 318       | 74.35         | 354.2             |              |
| 11   | 336       | 68.93         | 311.1             |              |
| 12   | 369       | 78.82         | 323.9             |              |
| 13   | 393       | 200.72        | 773.5             |              |
| 14   | 404       | 78.31         | 293.7             |              |
| 15   | 454       | 100.73        | 335.9             |              |
| 16   | 474       | 123.54        | 395.0             |              |
| 17   | 508       | 86.47         | 258.1             |              |
| 18   | 563       | 78.73         | 211.9             |              |
| 19   | 574       | 67.66         | 178.7             |              |
| 20   | 600       | 121.04        | 305.9             |              |
| 21   | 636       | 83.18         | 198.3             |              |
| 22   | 723       | 95.81         | 200.8             |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : SPOT DOB MG 1:2**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 23   | 779       | 116.23        | 226.1             |              |
| 24   | 870       | 112.15        | 195.3             |              |
| 25   | 1,353     | 170.47        | 191.0             |              |
| 26   | 1,882     | 43.00         | 34.6              |              |
| 27   | 2,276     | 28.59         | 19.0              |              |
| 28   | 2,561     | 20.33         | 12.0              |              |
| 29   | 2,833     | 35.86         | 19.2              |              |
| 30   | 3,685     | 17.35         | 7.1               |              |
| 31   | 4,311     | 20.12         | 7.1               |              |
| 32   | ▶ 10,380  | 75.00         | 10.9              | Upper Marker |

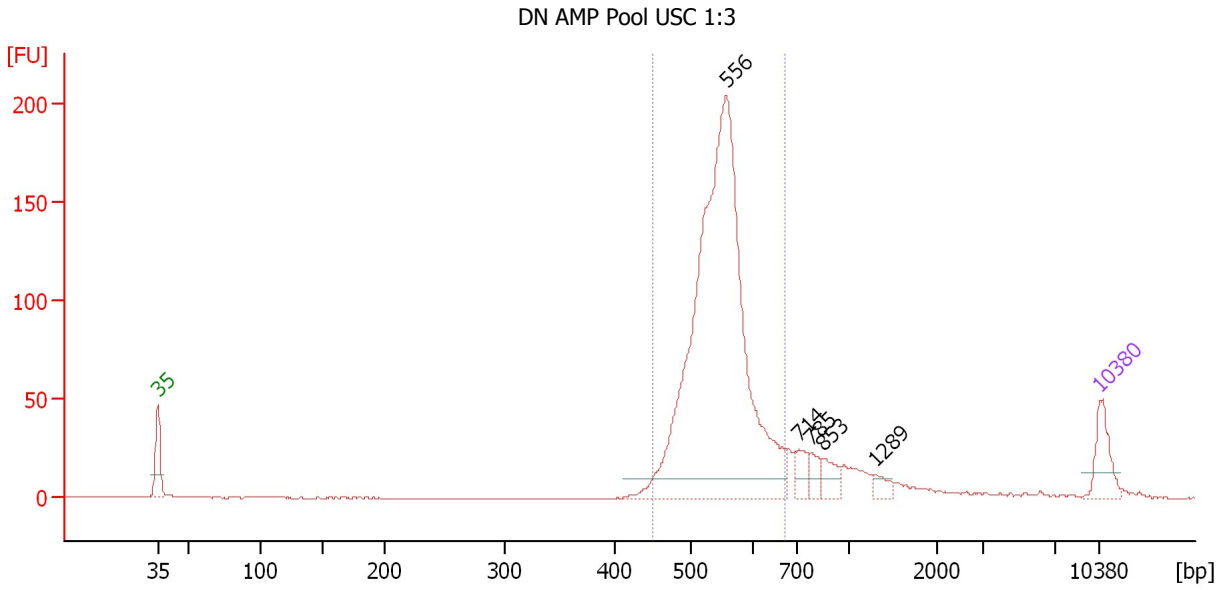
**Region table for sample 5 : SPOT DOB MG 1:2**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 148       | 5,070   | 737               | 18,496.3          | 4,745.18      | 3,847.5    | 96         | 94.2                        | ■     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : DN AMP Pool USC 1:3**

Height Threshold [FU] : 10

**Overall Results for sample 6 : DN AMP Pool USC 1:3**

Number of peaks found: 5                      Corr. Area 1: 995.6  
 Noise: 0.2

**Peak table for sample 6 : DN AMP Pool USC 1:3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 556       | 1,815.95      | 4,945.9           |              |
| 3    | 714       | 53.39         | 113.2             |              |
| 4    | 785       | 36.13         | 69.7              |              |
| 5    | 853       | 47.48         | 84.4              |              |
| 6    | 1,289     | 23.77         | 27.9              |              |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker |

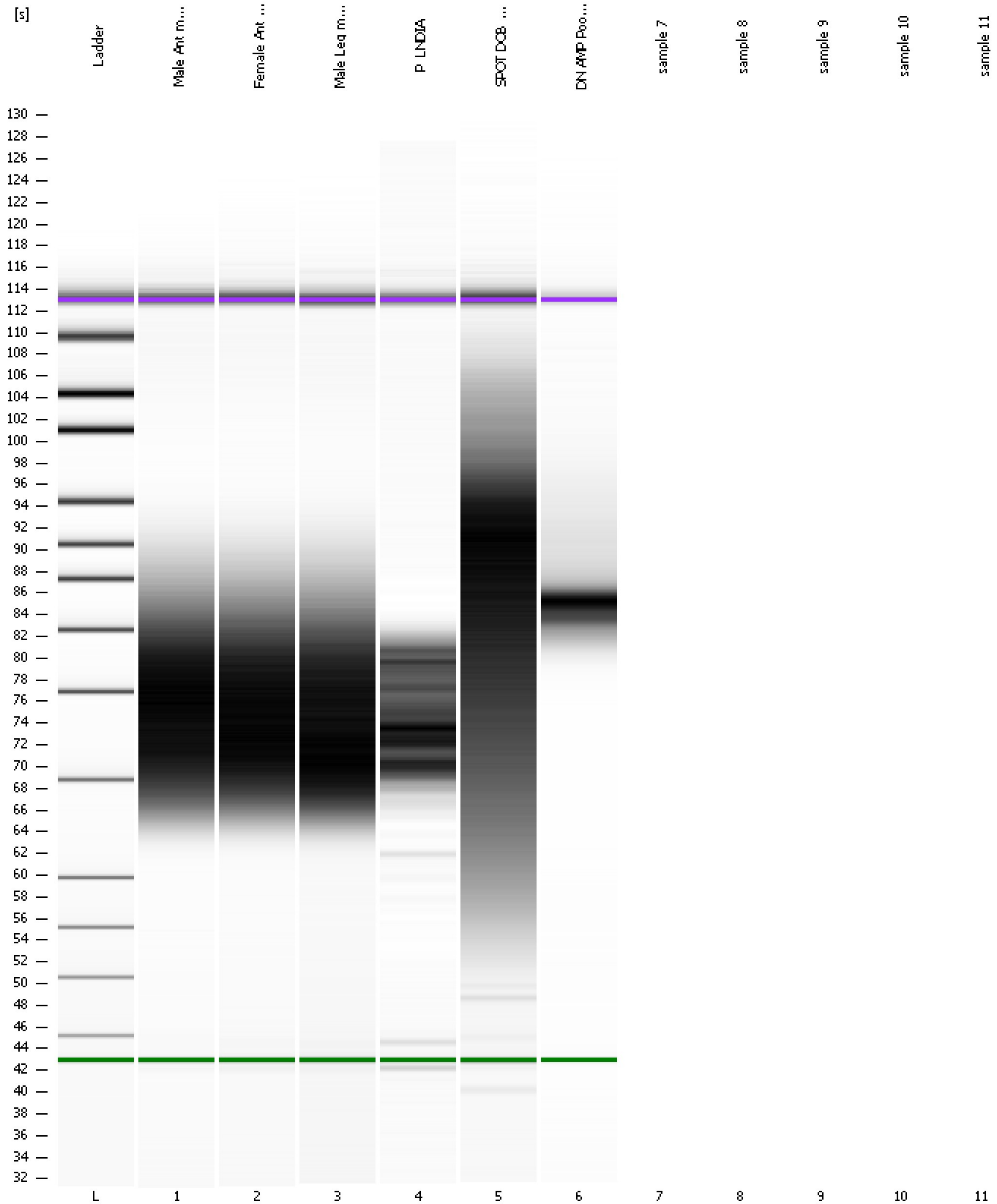
**Region table for sample 6 : DN AMP Pool USC 1:3**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 451       | 673     | 546               | 5,079.2           | 1,818.77      | 995.6      | 81         | 7.7                         | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
Modified: 3/21/2013 3:13:56 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
Modified: 3/21/2013 3:13:56 PM

**Invalid Samples**

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21\_002.xad

Created: 3/21/2013 2:41:29 PM  
 Modified: 3/21/2013 3:13:56 PM

**Run Logbook**

| Description   | Number | Source     | Category | Sub Category | Time                 | Time Zone                           | User     | Host     |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 7)   |        | Instrument | Run      |              | 3/21/2013 3:08:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad) |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B   |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :  |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies   |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086  |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069   |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode   |        | Instrument | Run      |              | 3/21/2013 2:41:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |