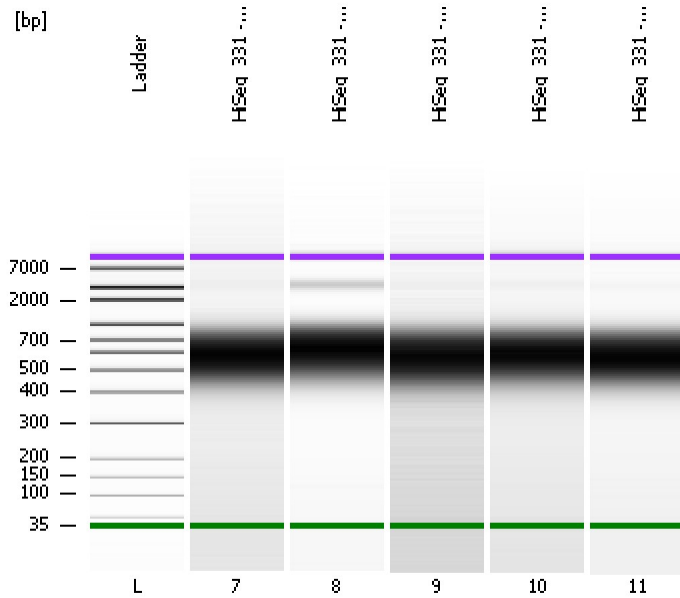


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
Modified: 2/12/2016 3:08:27 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

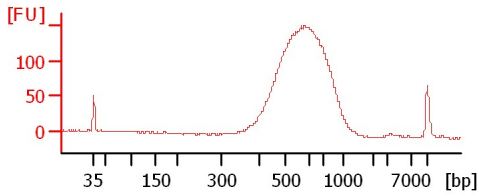
Assay Information:

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

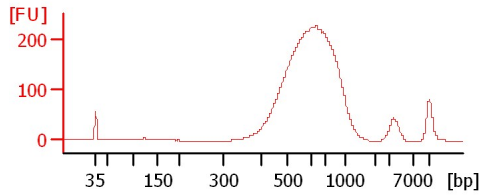
Chip Information:

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

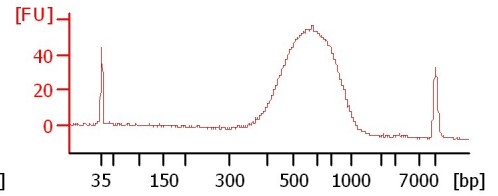
HiSeq\_331 - 6 Library (1:15)



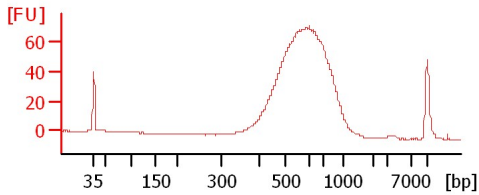
HiSeq\_331 - 7 Library (1:15)



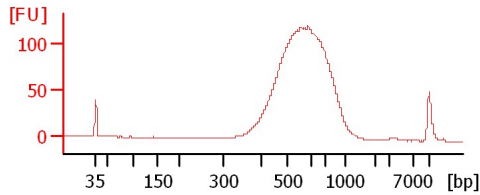
HiSeq\_331 - 8 Library (1:15)



HiSeq\_331 - 9 Library (1:15)



HiSeq\_331 - 10 Library (1:15)



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

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

| Sample Name                   | Sample Comment | Rest. Digest             | Status                              | Observation | Result Label | Result Color |
|-------------------------------|----------------|--------------------------|-------------------------------------|-------------|--------------|--------------|
| HiSeq_331 - 6 Library (1:15)  |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |
| HiSeq_331 - 7 Library (1:15)  |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |
| HiSeq_331 - 8 Library (1:15)  |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |
| HiSeq_331 - 9 Library (1:15)  |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |
| HiSeq_331 - 10 Library (1:15) |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |
| Ladder                        |                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
Modified: 2/12/2016 3:08:27 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

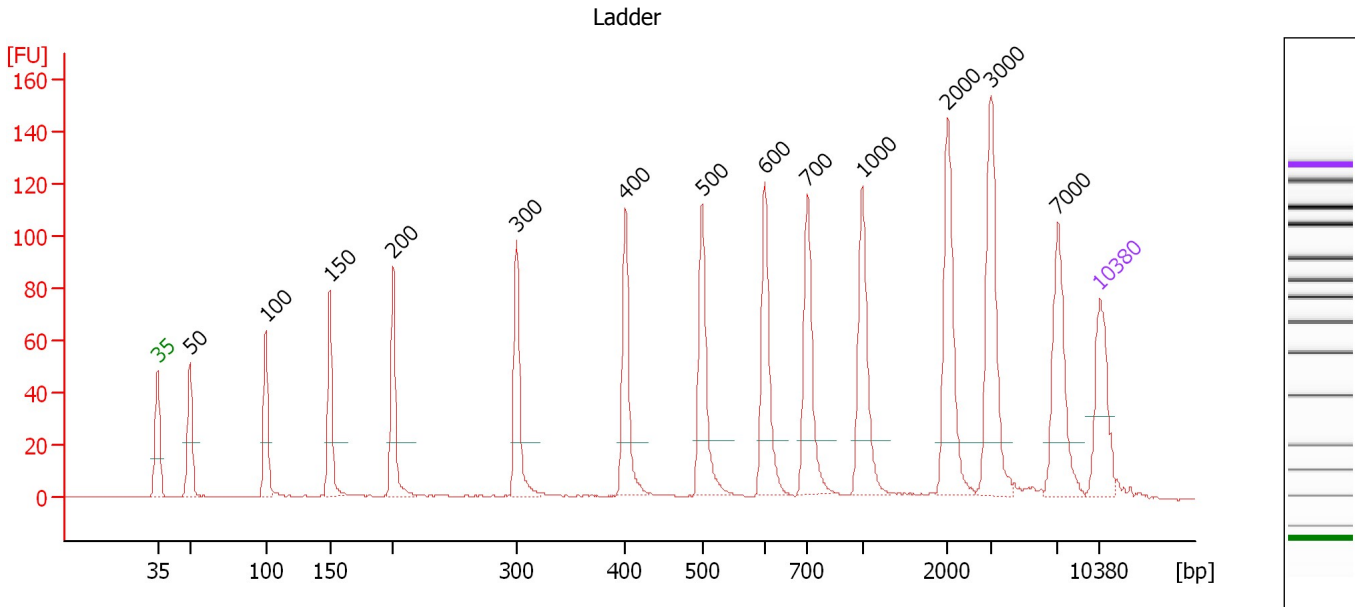
**Ladder**

| 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:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

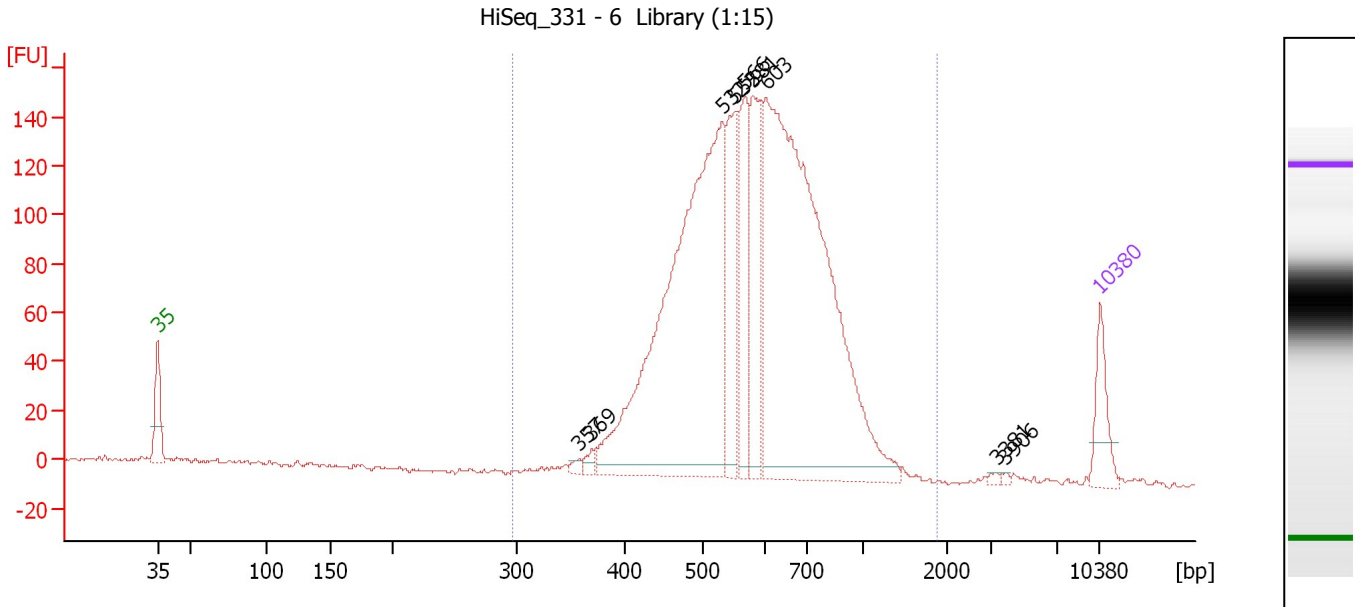
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  | 45.38                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 51.05                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 55.82                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.49                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 69.68                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 77.74                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.46                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 88.13                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.27                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.32                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.71                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.85                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.86                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HiSeq 331 - 6 Library (1:15)**

Number of peaks found: 9                      Corr. Area 1: 2,265.5  
 Noise: 0.8

**Peak table for sample 7 : HiSeq 331 - 6 Library (1:15)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 357       | 12.37         | 52.5              |              | 74.29                      |
| 3    | 369       | 17.06         | 70.0              |              | 75.25                      |
| 4    | 532       | 1,318.16      | 3,755.8           |              | 84.94                      |
| 5    | 552       | 247.25        | 678.3             |              | 85.90                      |
| 6    | 566       | 223.47        | 597.8             |              | 86.55                      |
| 7    | 581       | 220.73        | 575.2             |              | 87.26                      |
| 8    | 603       | 1,421.46      | 3,571.8           |              | 88.22                      |
| 9    | 3,381     | 5.04          | 2.3               |              | 105.33                     |
| 10   | 3,906     | 3.65          | 1.4               |              | 105.98                     |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

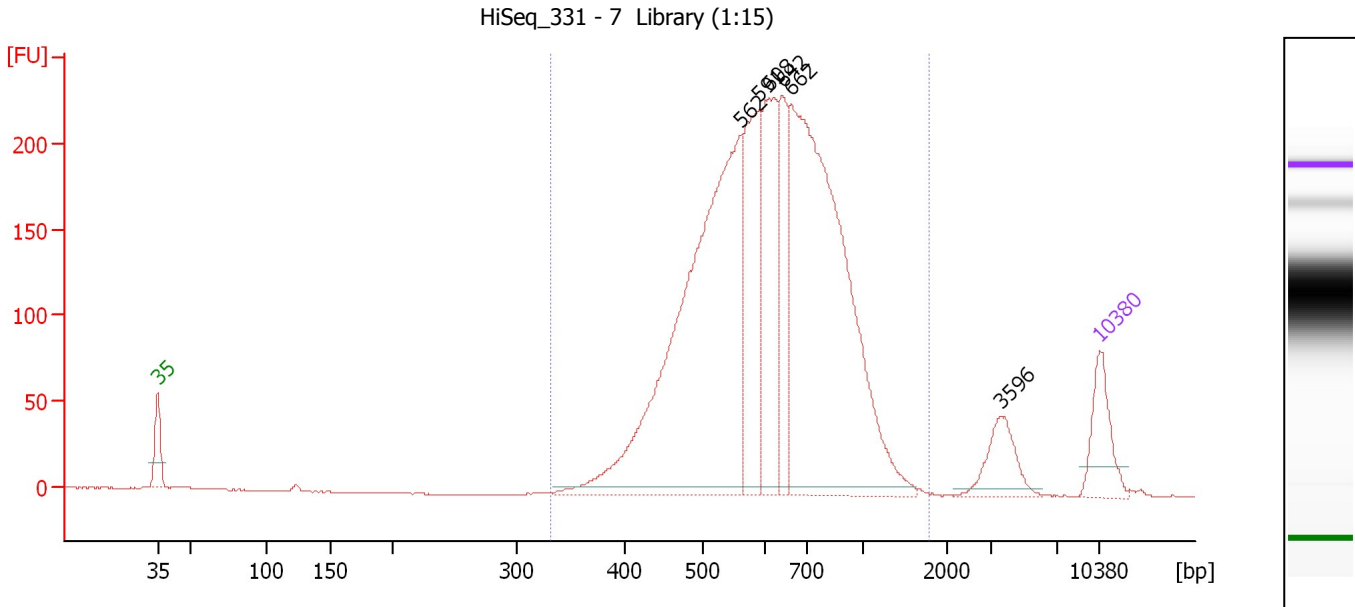
**Region table for sample 7 : HiSeq 331 - 6 Library (1:15)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 297       | 1,879   | 608               | 2,265.5    | 9,698.0           | 3,615.51             | 95         | 27.3                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HiSeq 331 - 7 Library (1:15)**

Number of peaks found: 6                      Corr. Area 1: 3,280.1  
 Noise: 0.2

**Peak table for sample 8 : HiSeq 331 - 7 Library (1:15)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 562       | 1,022.62      | 2,756.1           |              | 86.36                      |
| 3    | 591       | 275.85        | 706.8             |              | 87.72                      |
| 4    | 608       | 254.38        | 634.0             |              | 88.37                      |
| 5    | 642       | 160.23        | 378.4             |              | 89.43                      |
| 6    | 662       | 1,004.11      | 2,297.0           |              | 90.09                      |
| 7    | 3,596     | 74.33         | 31.3              |              | 105.60                     |
| 8    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

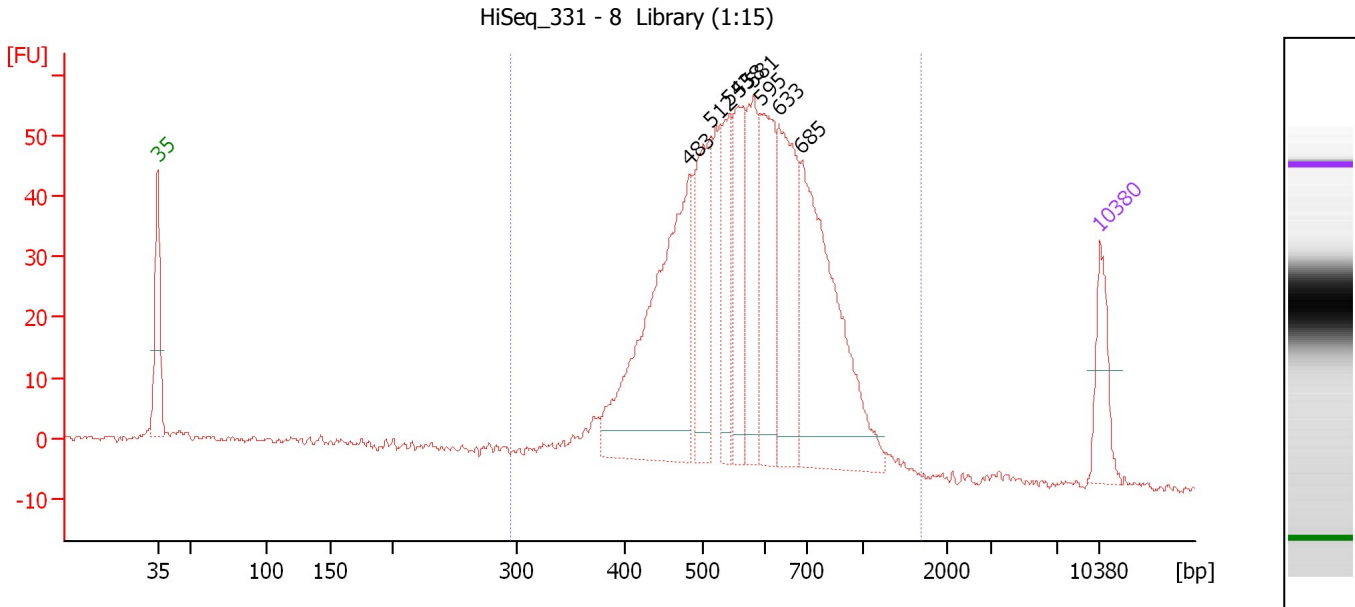
**Region table for sample 8 : HiSeq 331 - 7 Library (1:15)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 331       | 1,773   | 650               | 3,280.1    | 6,961.1           | 2,756.23         | 96         | 27.7                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HiSeq 331 - 8 Library (1:15)**

Number of peaks found: 8                      Corr. Area 1: 922.1  
 Noise: 0.4

**Peak table for sample 9 : HiSeq 331 - 8 Library (1:15)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 483       | 599.63        | 1,879.7           |              | 82.50                      |
| 3    | 512       | 228.74        | 676.3             |              | 84.04                      |
| 4    | 543       | 154.52        | 431.1             |              | 85.47                      |
| 5    | 558       | 175.87        | 477.1             |              | 86.19                      |
| 6    | 581       | 190.88        | 497.4             |              | 87.26                      |
| 7    | 595       | 226.56        | 577.3             |              | 87.88                      |
| 8    | 633       | 261.99        | 627.4             |              | 89.15                      |
| 9    | 685       | 497.48        | 1,100.7           |              | 90.79                      |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

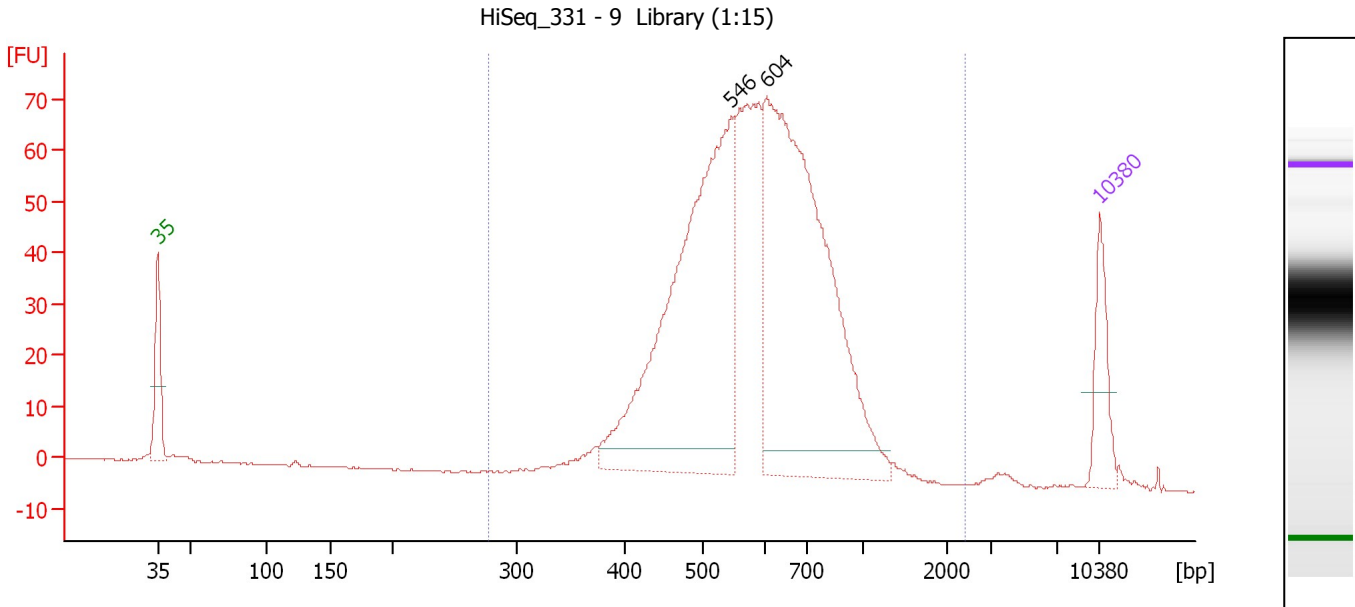
**Region table for sample 9 : HiSeq 331 - 8 Library (1:15)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 295       | 1,693   | 595               | 922.1      | 7,334.6           | 2,667.60         | 94         | 26.7                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HiSeq 331 - 9 Library (1:15)**

Number of peaks found: 2                      Corr. Area 1: 1,054.7  
 Noise: 0.1

**Peak table for sample 10 : HiSeq 331 - 9 Library (1:15)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 546       | 860.37        | 2,387.1           |              | 85.61                      |
| 3    | 604       | 900.56        | 2,260.5           |              | 88.24                      |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

**Region table for sample 10 : HiSeq 331 - 9 Library (1:15)**

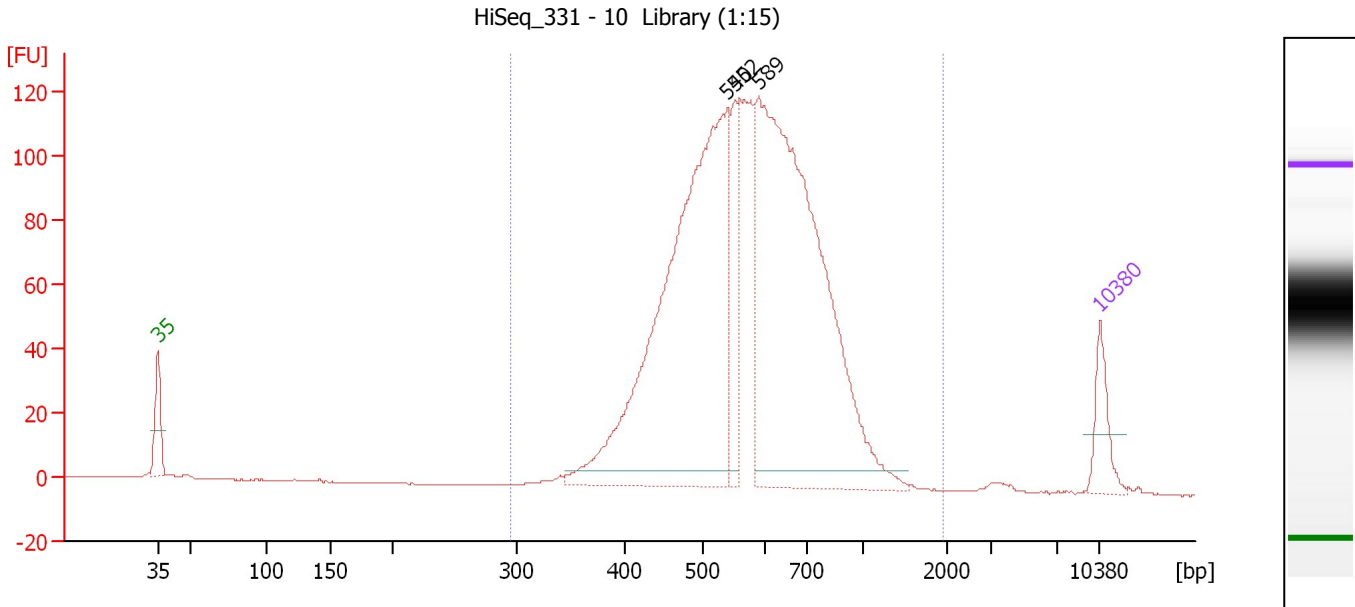
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 277       | 2,381   | 614               | 1,054.7    | 6,015.0           | 2,255.53             | 97         | 28.0                        |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HiSeq 331 - 10 Library (1:15)**

Number of peaks found: 3                      Corr. Area 1: 1,748.1  
 Noise: 0.1

**Peak table for sample 11 : HiSeq 331 - 10 Library (1:15)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 540       | 1,444.84      | 4,055.9           |              | 85.31                      |
| 3    | 552       | 228.85        | 628.2             |              | 85.88                      |
| 4    | 589       | 1,484.17      | 3,819.3           |              | 87.60                      |
| 5    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

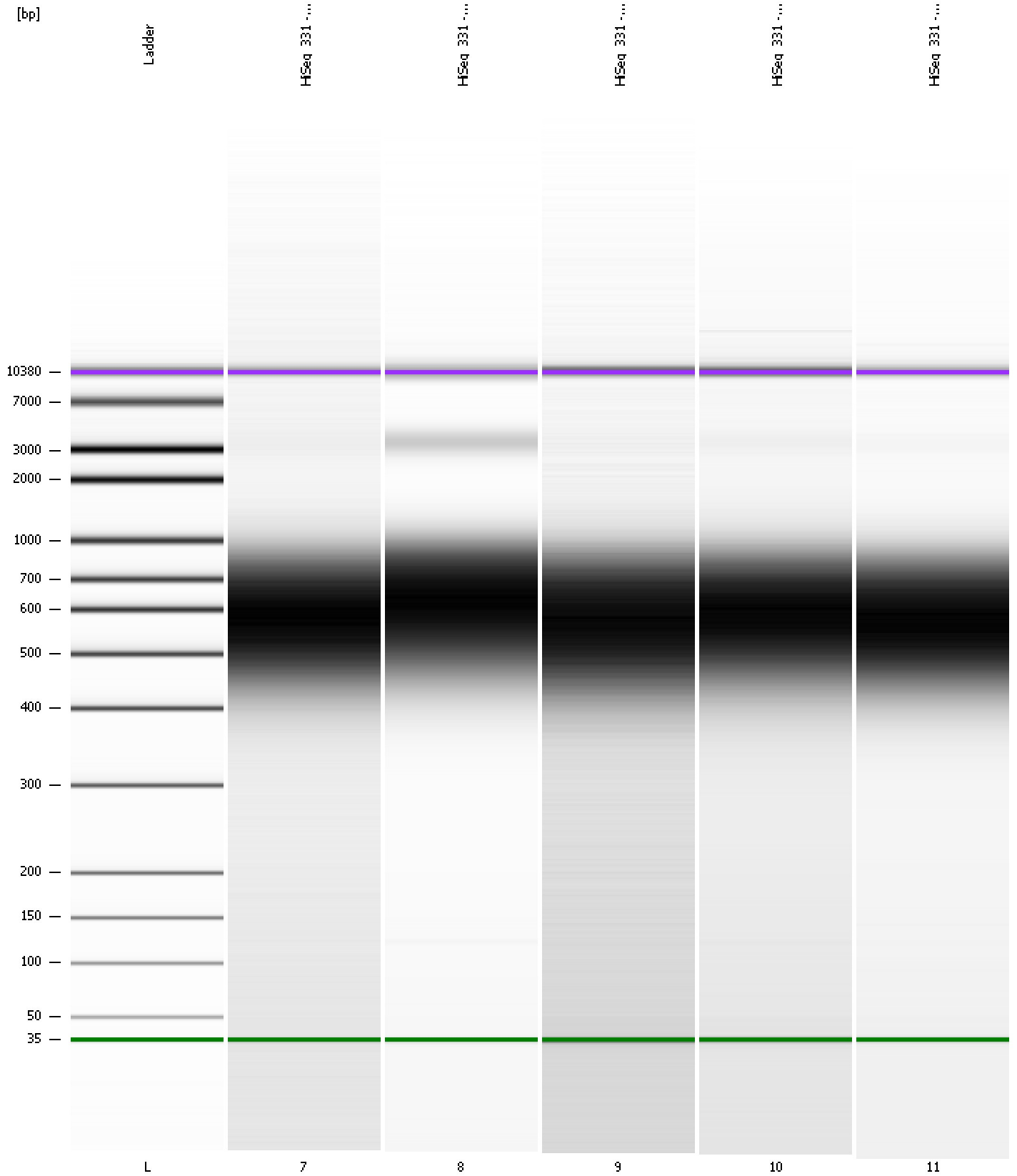
**Region table for sample 11 : HiSeq 331 - 10 Library (1:15)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 295       | 1,945   | 597               | 1,748.1    | 9,707.6           | 3,569.25             | 98         | 26.0                        |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
Modified: 2/12/2016 3:08:27 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...lyzer\2016-02-12\2016-02-12\_001\_HiSeq331\_Libraries\_6-10.xad

Created: 2/12/2016 12:03:42 PM  
 Modified: 2/12/2016 3:08:27 PM

**Run Logbook**

| Description  | Number | Source     | Category | Sub Category | Time                  | Time Zone                           | User     | Host     |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12)   |        | Instrument | Run      |              | 2/12/2016 12:45:00 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanal yzer\2016-02-12\2016-02-12_001.xad) |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 2/12/2016 12:03:47 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |