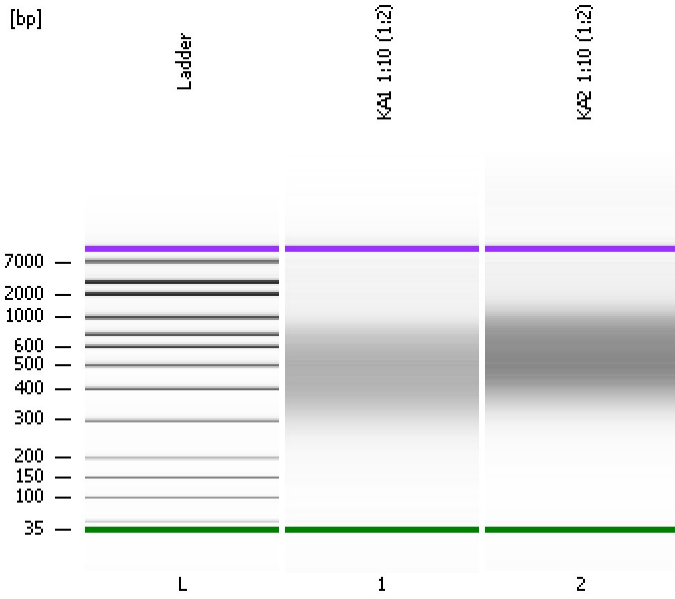


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
Modified: 10/14/2016 10:29:42 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

Assay Information:

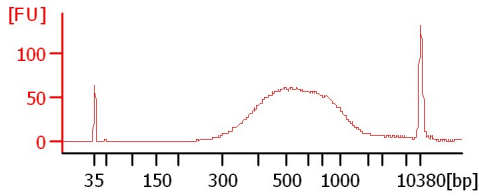
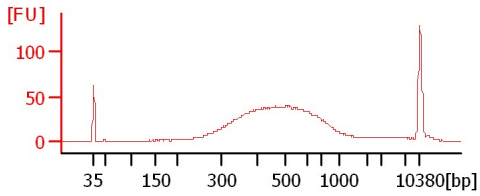
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

KA1 1:10 (1:2)

KA2 1:10 (1:2)



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
 Modified: 10/14/2016 10:29:42 AM

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

| Sample Name    | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|----------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| KA1 1:10 (1:2) |                | <input type="checkbox"/> | ✓      |             |              |              |
| KA2 1:10 (1:2) |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder         |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
Modified: 10/14/2016 10:29:42 AM

**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

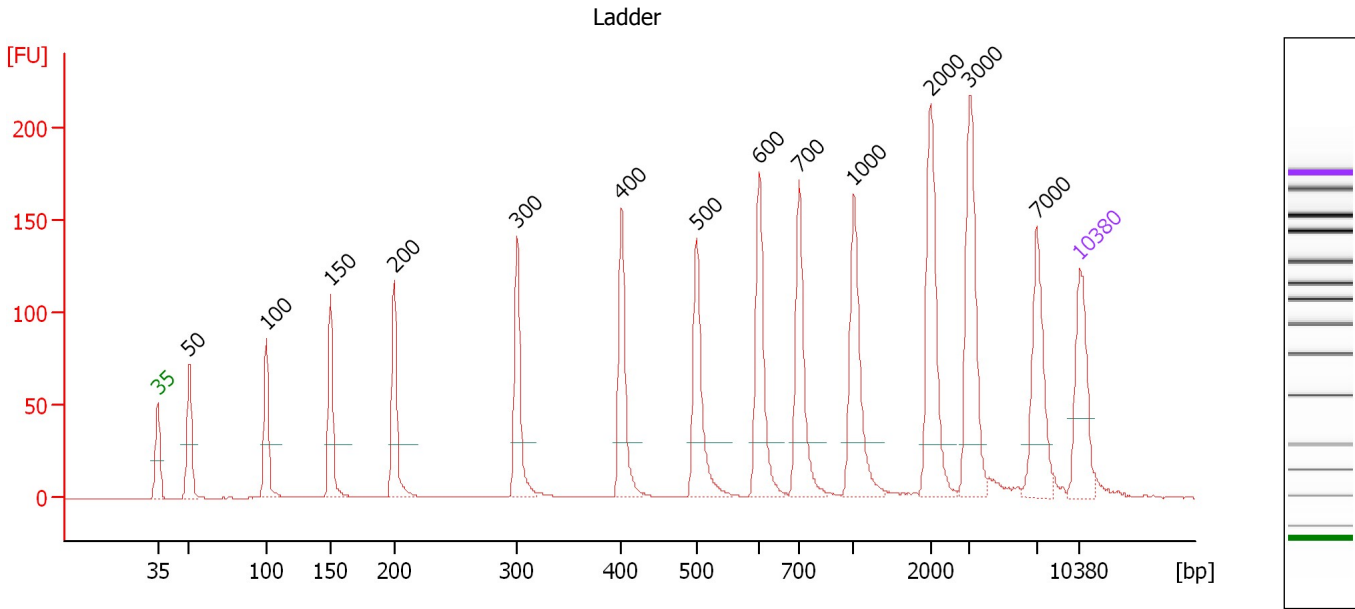
**Ladder**

| 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:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
 Modified: 10/14/2016 10:29:42 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

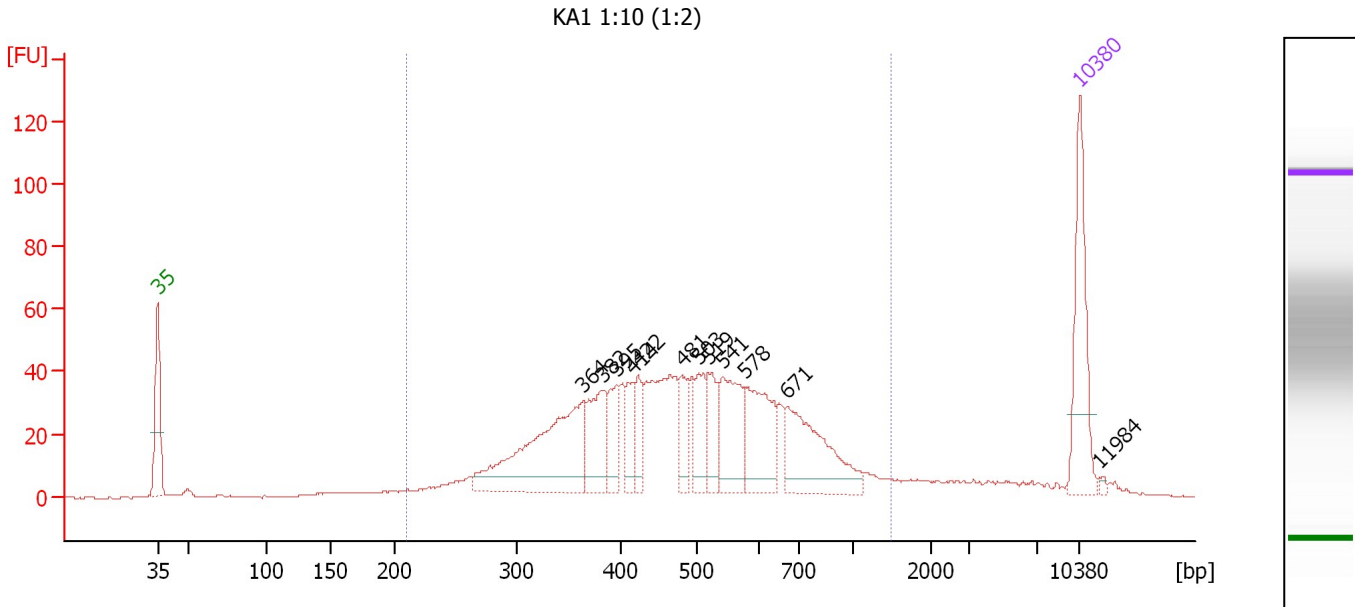
**Peak table for Ladder**

| 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  | 45.39                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 51.26                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 56.14                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.98                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 70.31                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 78.22                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.94                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 88.67                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.70                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.85                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.67                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.65                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.78                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
 Modified: 10/14/2016 10:29:42 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : KA1 1:10 (1:2)**

Number of peaks found: 12                      Corr. Area 1: 1,049.6  
 Noise: 0.2

**Peak table for sample 1 : KA1 1:10 (1:2)**

| 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    | 364       | 195.37        | 814.3             |              | 75.33                      |
| 3    | 382       | 68.65         | 272.5             |              | 76.77                      |
| 4    | 395       | 37.23         | 142.9             |              | 77.80                      |
| 5    | 414       | 31.38         | 114.8             |              | 79.04                      |
| 6    | 422       | 31.99         | 114.8             |              | 79.48                      |
| 7    | 481       | 33.87         | 106.7             |              | 82.84                      |
| 8    | 503       | 47.07         | 141.8             |              | 84.07                      |
| 9    | 519       | 39.08         | 114.2             |              | 84.81                      |
| 10   | 541       | 79.81         | 223.4             |              | 85.90                      |
| 11   | 578       | 84.48         | 221.5             |              | 87.63                      |
| 12   | 671       | 105.74        | 238.6             |              | 90.83                      |
| 13   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 14   | 11,984    | 0.00          | 0.0               |              | 114.53                     |

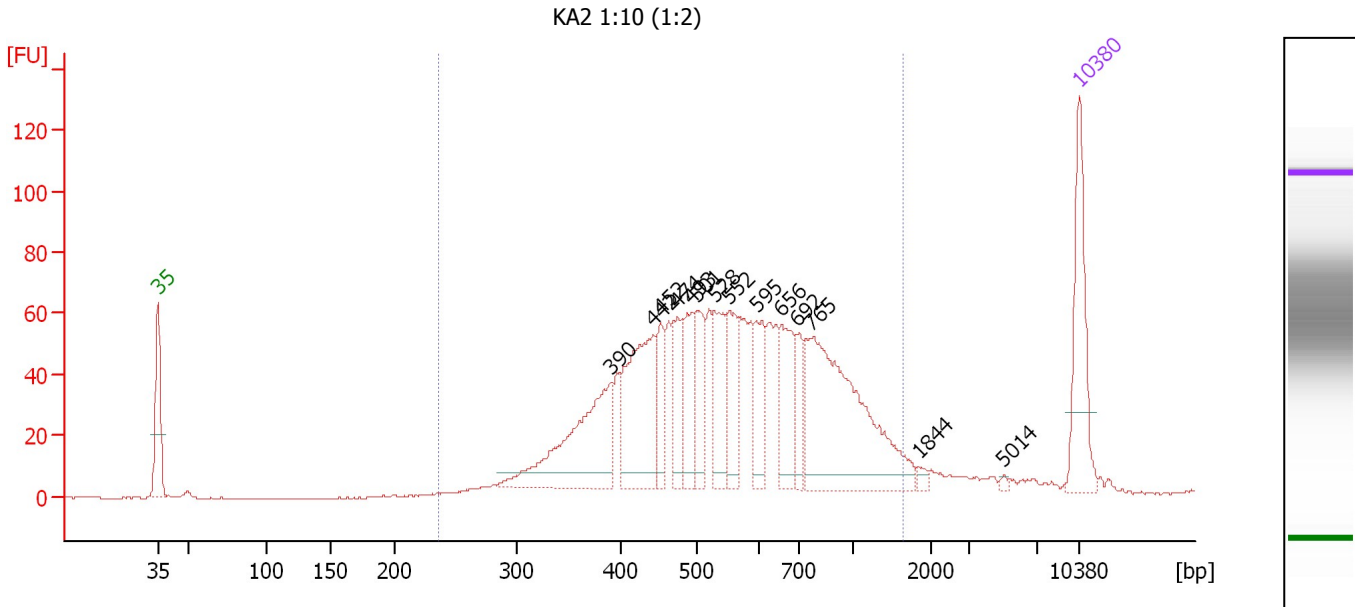
**Region table for sample 1 : KA1 1:10 (1:2)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 209       | 1,473   | 508               | 1,049.6    | 3,673.4           | 1,055.67             | 90         | 37.0                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
 Modified: 10/14/2016 10:29:42 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : KA2 1:10 (1:2)**

Number of peaks found: 14                      Corr. Area 1: 1,472.0  
 Noise: 0.2

**Peak table for sample 2 : KA2 1:10 (1:2)**

| 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    | 390       | 166.58        | 647.2             |              | 77.43                      |
| 3    | 442       | 153.18        | 525.3             |              | 80.61                      |
| 4    | 452       | 41.73         | 139.8             |              | 81.21                      |
| 5    | 474       | 50.00         | 159.8             |              | 82.45                      |
| 6    | 493       | 64.29         | 197.5             |              | 83.55                      |
| 7    | 501       | 47.65         | 144.0             |              | 84.00                      |
| 8    | 528       | 62.02         | 178.1             |              | 85.24                      |
| 9    | 552       | 59.64         | 163.8             |              | 86.38                      |
| 10   | 595       | 53.18         | 135.5             |              | 88.42                      |
| 11   | 656       | 67.20         | 155.3             |              | 90.36                      |
| 12   | 692       | 33.79         | 74.0              |              | 91.46                      |
| 13   | 765       | 248.36        | 491.9             |              | 92.60                      |
| 14   | 1,844     | 5.00          | 4.1               |              | 100.76                     |
| 15   | 5,014     | 2.43          | 0.7               |              | 107.23                     |
| 16   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

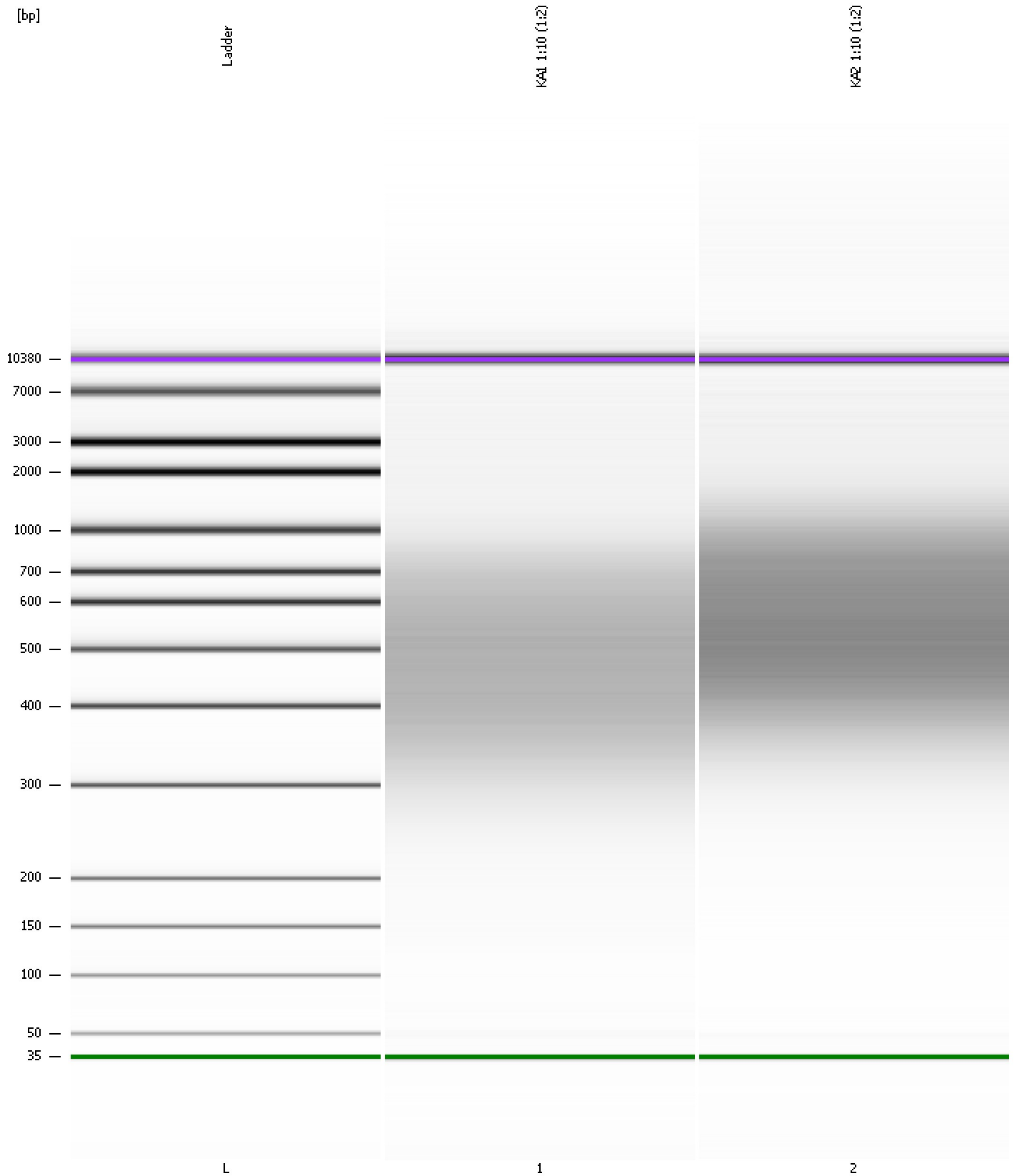
**Region table for sample 2 : KA2 1:10 (1:2)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 236       | 1,648   | 606               | 1,472.0    | 4,171.7           | 1,404.77             | 91         | 41.0                        |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
Modified: 10/14/2016 10:29:42 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...yzer\2100 expert\data\2016-10-14\2016-10-14\_001\_KA1\_KA2.xad

Created: 10/14/2016 9:52:16 AM  
 Modified: 10/14/2016 10:29:42 AM

**Run Logbook**

| Description  | Number | Source     | Category | Sub Category | Time                   | Time Zone                           | User     | Host     |
|--|--------|------------|----------|--------------|------------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 10)   |        | Instrument | Run      |              | 10/14/2016 10:27:52 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-10-14\2016-10-14_001.xad) |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 10/14/2016 9:52:21 AM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |