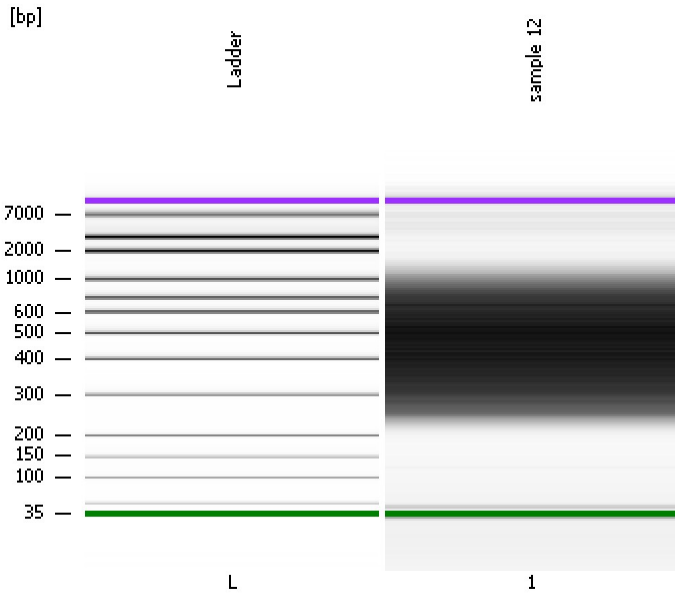


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
Modified: 12/3/2015 10:03:14 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

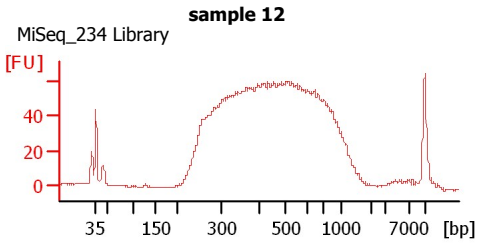
Assay Information:

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
Modified: 12/3/2015 10:03:14 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12 Ladder	MiSeq_234 Library	<input type="checkbox"/> <input type="checkbox"/>	 			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
Modified: 12/3/2015 10:03:14 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

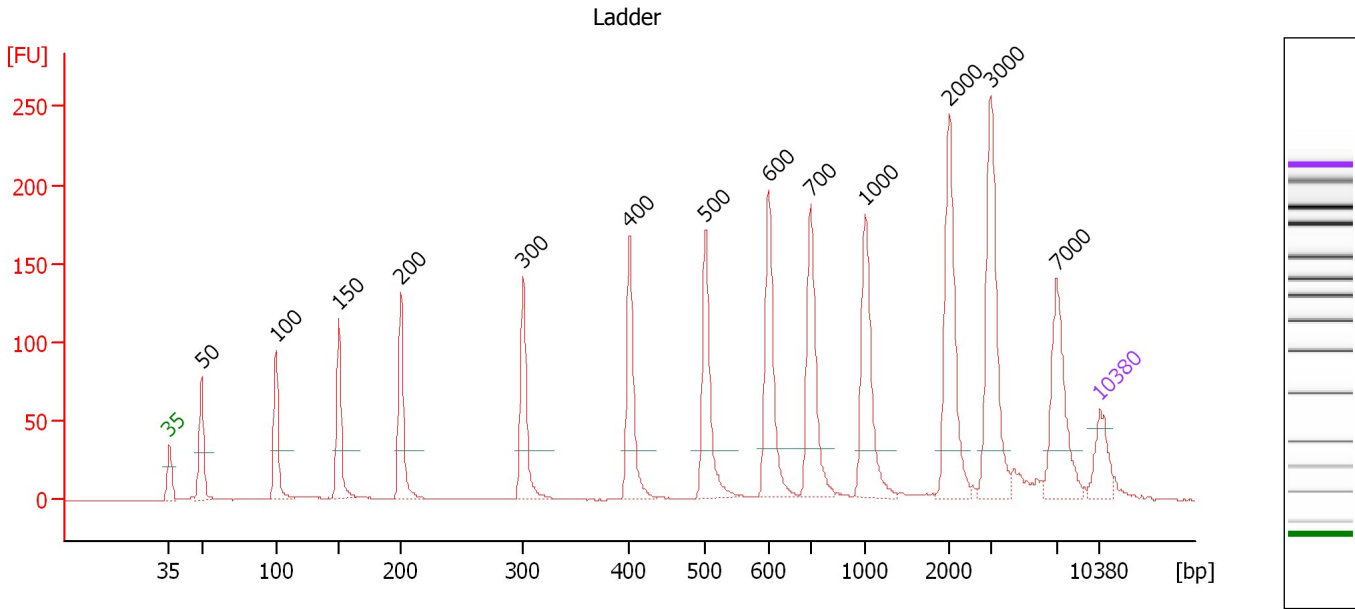
### Ladder

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:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

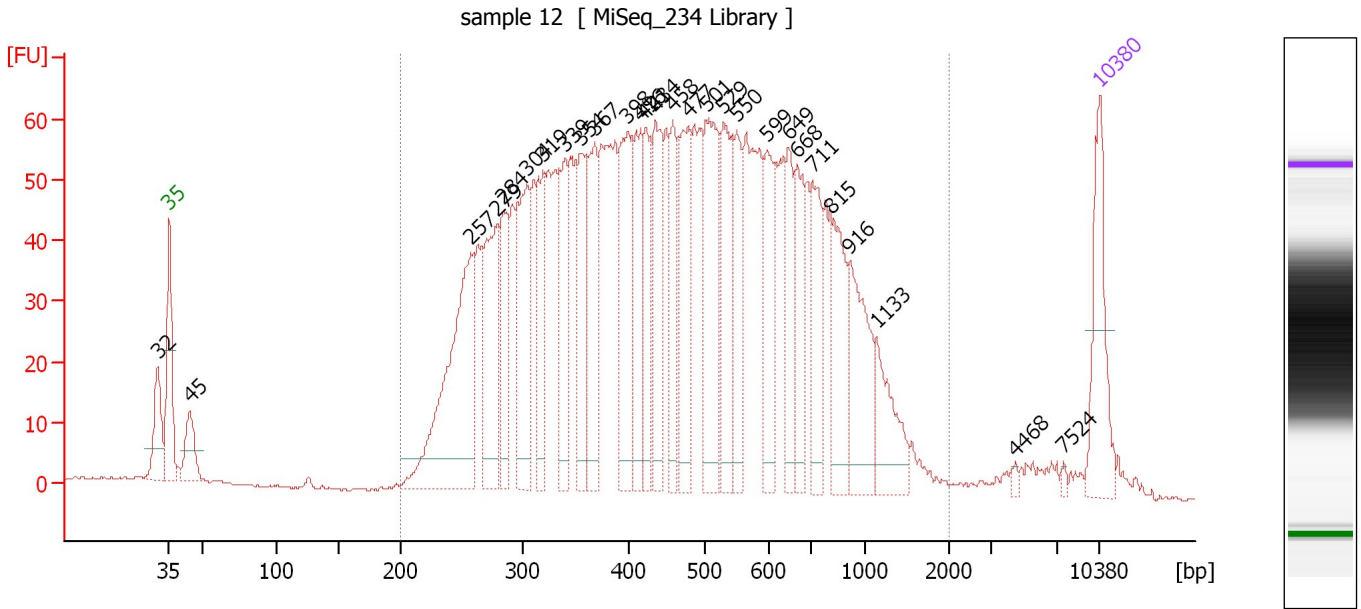
**Peak table for Ladder**

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.00
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.60
7	400	150.00	568.2	Ladder Peak	77.60
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	88.06
10	700	150.00	324.7	Ladder Peak	91.23
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.69
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 12**

Number of peaks found: 28                      Corr. Area 1: 2,217.1  
 Noise: 0.3

**Peak table for sample 1 : sample 12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.11
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	55.83	1,893.6		44.56
4	257	275.97	1,628.3		65.64
5	279	154.15	838.2		67.64
6	284	82.18	438.5		68.13
7	304	150.57	750.8		69.91
8	319	86.47	410.9		71.11
9	339	91.81	410.5		72.71
10	354	102.91	439.9		73.95
11	367	113.43	468.0		74.98
12	398	133.15	506.4		77.47
13	416	97.92	357.0		78.49
14	421	74.83	269.3		78.80
15	434	109.04	380.5		79.56
16	458	73.41	243.1		80.89
17	477	127.45	404.8		82.00
18	501	160.33	484.6		83.38
19	529	114.94	329.5		84.67
20	550	74.16	204.3		85.69
21	599	87.76	222.0		88.01
22	649	74.14	173.1		89.61
23	668	75.27	170.6		90.23
24	711	82.96	176.7		91.39
25	815	90.95	169.1		92.81

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
 Modified: 12/3/2015 10:03:14 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : sample 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	916	99.32	164.3		94.19
27	1,133	61.57	82.3		96.19
28	4,468	3.83	1.3		106.60
29	7,524	3.07	0.6		110.24
30	10,380	75.00	10.9	Upper Marker	113.00

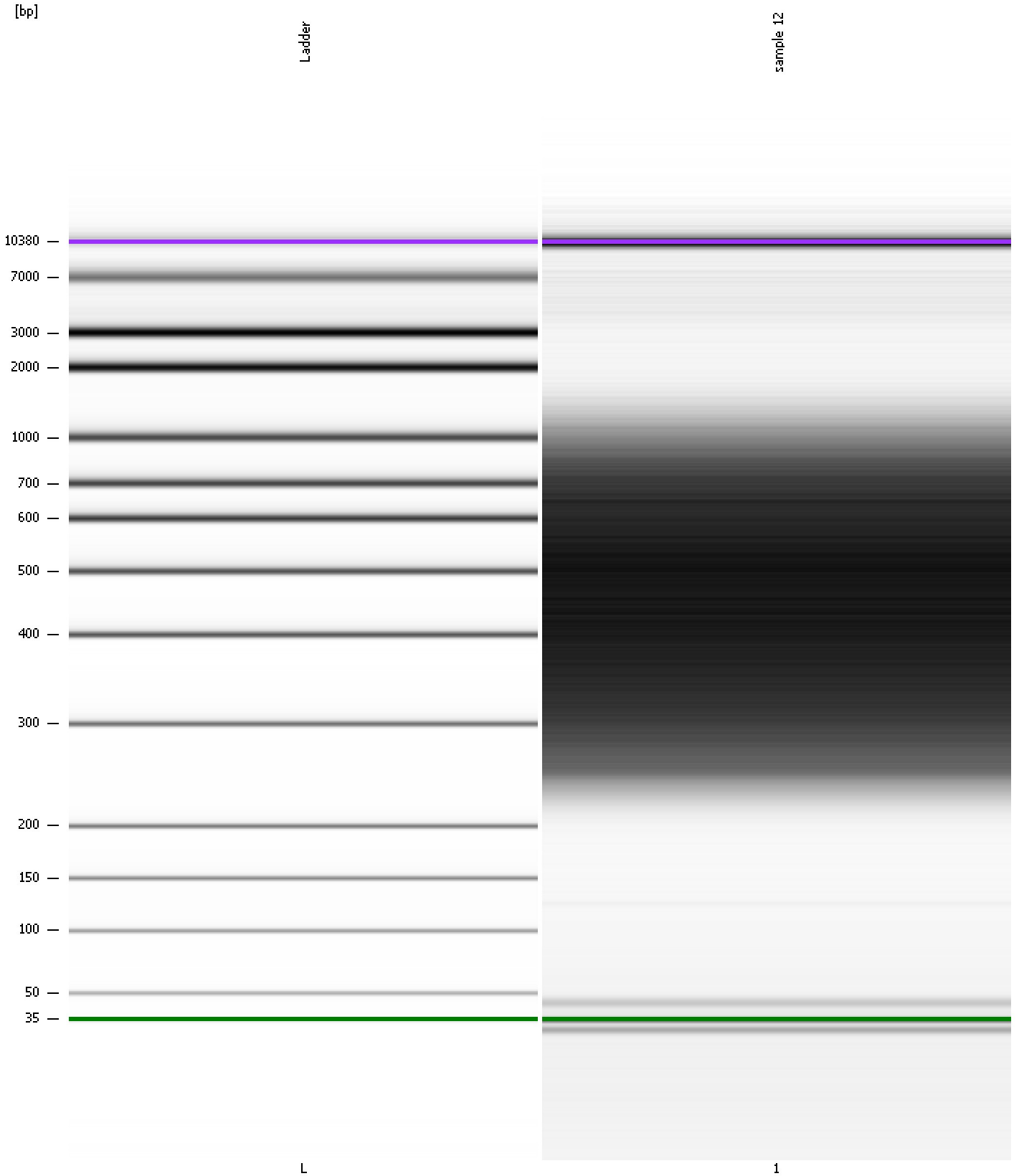
#### Region table for sample 1 : sample 12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,981	509	2,217.1	14,250.1	3,798.57	94	47.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
Modified: 12/3/2015 10:03:14 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...oanalyzer\2015-12-02\2015-12-02\_007\_MiSeq234\_Library\_12.xad

Created: 12/2/2015 4:29:09 PM  
 Modified: 12/3/2015 10:03:14 AM

**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		12/2/2015 5:09:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_007.xad)		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1