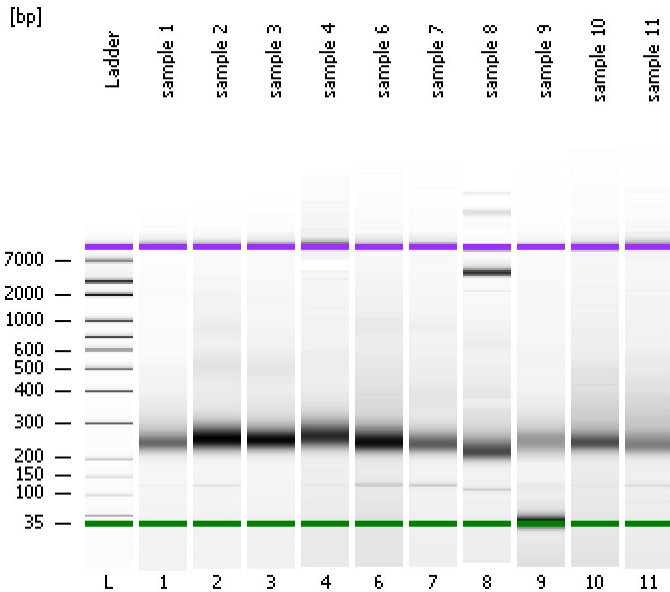


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
Modified: 2/3/2015 10:52:26 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

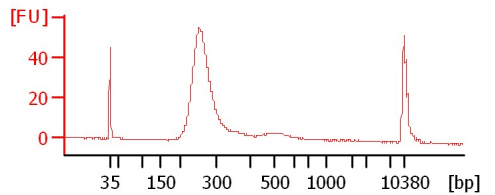
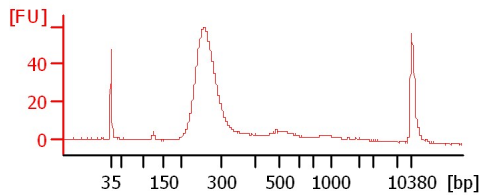
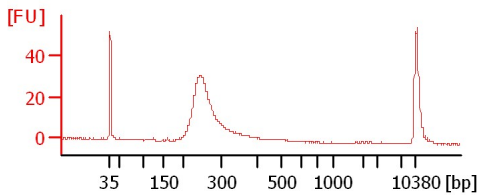
Chip Information:

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

sample 1

sample 2

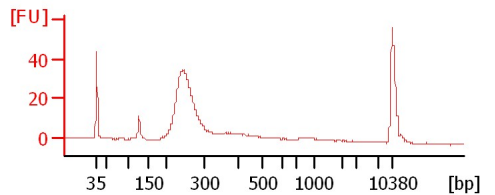
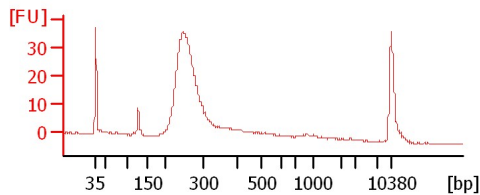
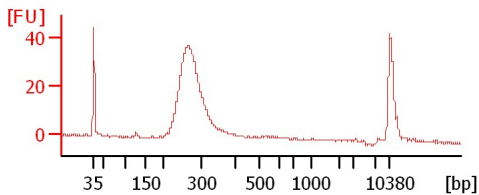
sample 3



sample 4

sample 6

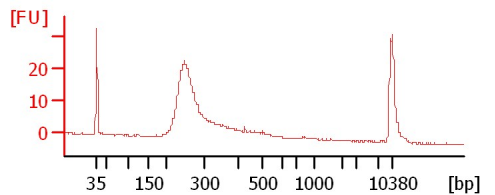
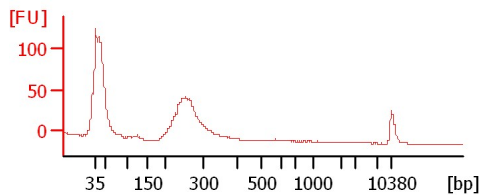
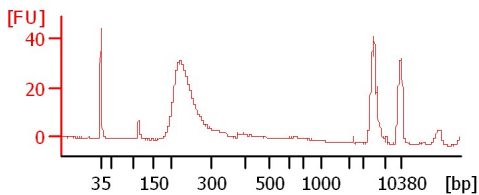
sample 7



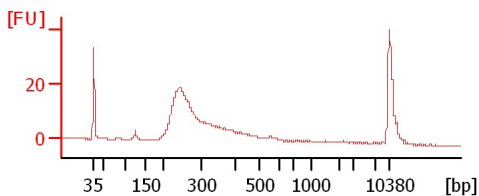
sample 8

sample 9

sample 10



sample 11



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 6		<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:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 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

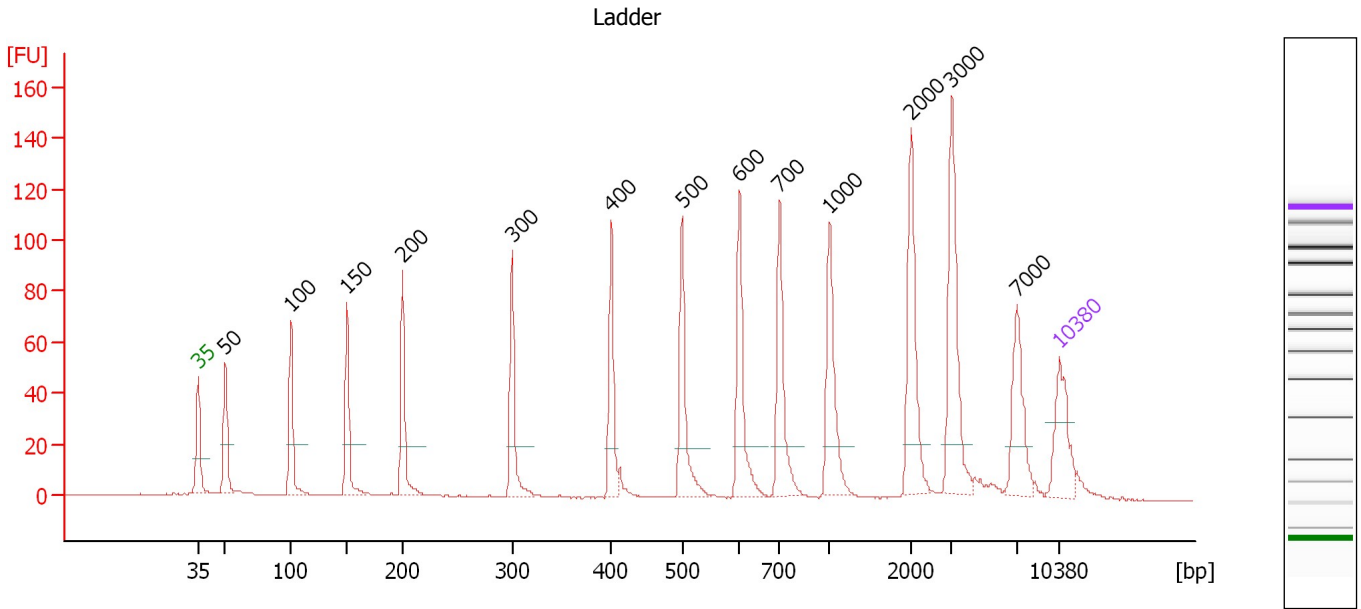
**Ladder**

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:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

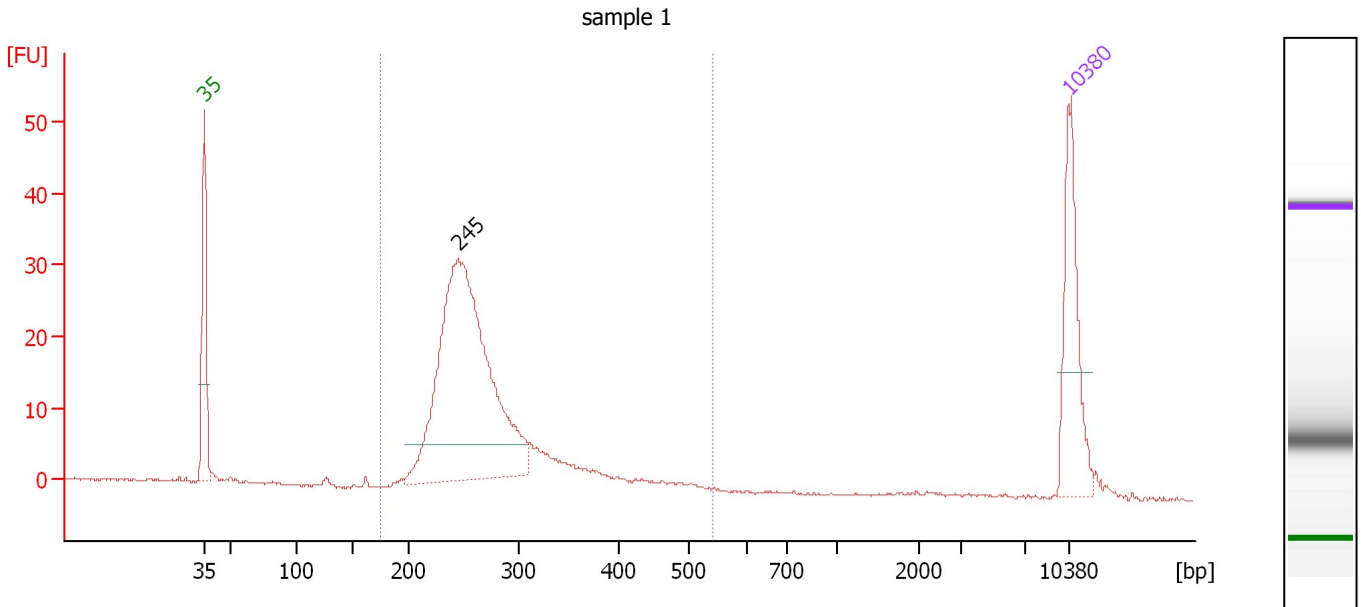
**Peak table for Ladder**

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	45.21
3	100	150.00	2,272.7	Ladder Peak	50.54
4	150	150.00	1,515.2	Ladder Peak	55.09
5	200	150.00	1,136.4	Ladder Peak	59.60
6	300	150.00	757.6	Ladder Peak	68.53
7	400	150.00	568.2	Ladder Peak	76.59
8	500	150.00	454.5	Ladder Peak	82.31
9	600	150.00	378.8	Ladder Peak	86.99
10	700	150.00	324.7	Ladder Peak	90.24
11	1,000	150.00	227.3	Ladder Peak	94.32
12	2,000	150.00	113.6	Ladder Peak	100.95
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.53
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 305.8  
 Noise: 0.2

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

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	245	481.54	2,980.7		63.60
3	10,380	75.00	10.9	Upper Marker	113.00

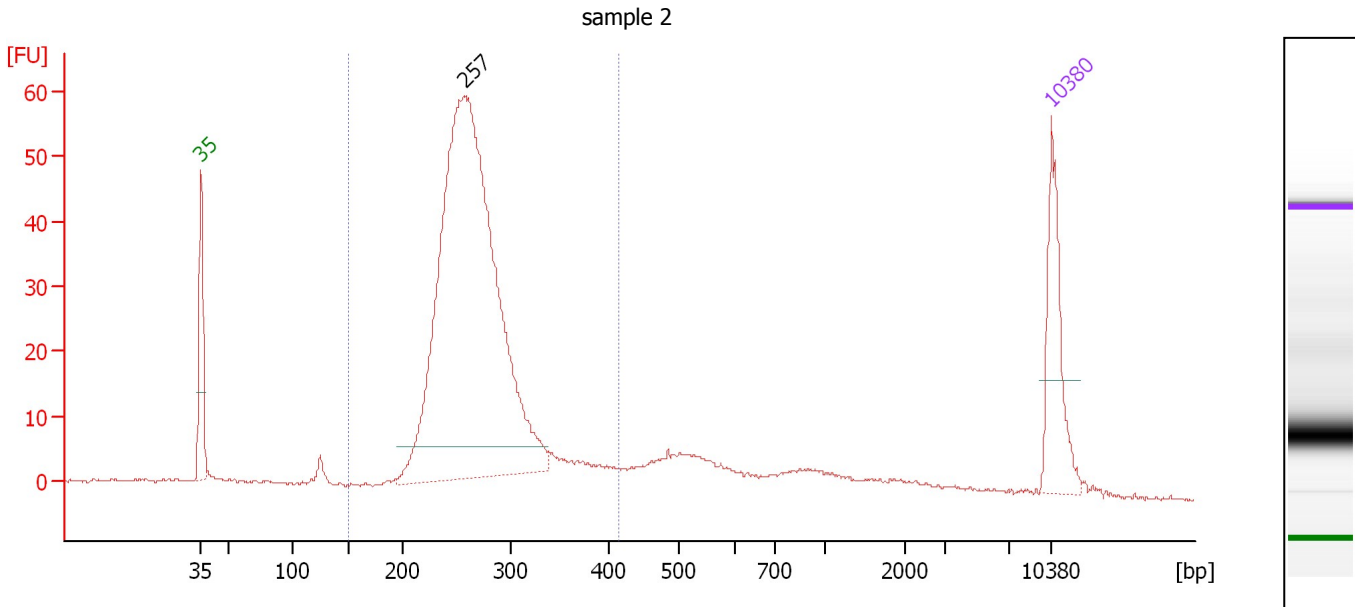
**Region table for sample 1 : sample 1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
175	273	542	305.8	96	19.8	582.02	3,347.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 1                      Corr. Area 1: 589.0  
 Noise: 0.3

**Peak table for sample 2 : sample 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	257	1,019.89	6,015.3		64.68
3	10,380	75.00	10.9	Upper Marker	113.00

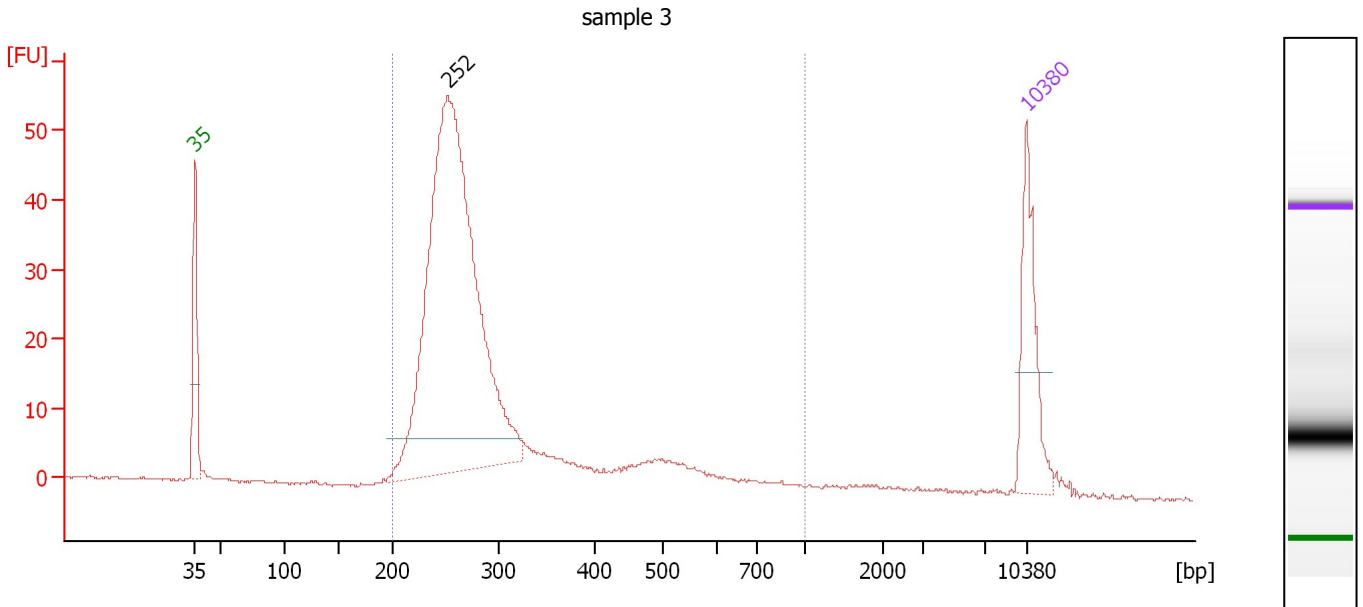
**Region table for sample 2 : sample 2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
151	270	414	589.0	81	13.9	1,125.63	6,424.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 1                      Corr. Area 1: 536.3  
 Noise: 0.2

**Peak table for sample 3 : sample 3**

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	252	834.73	5,010.1		64.28
3	10,380	75.00	10.9	Upper Marker	113.00

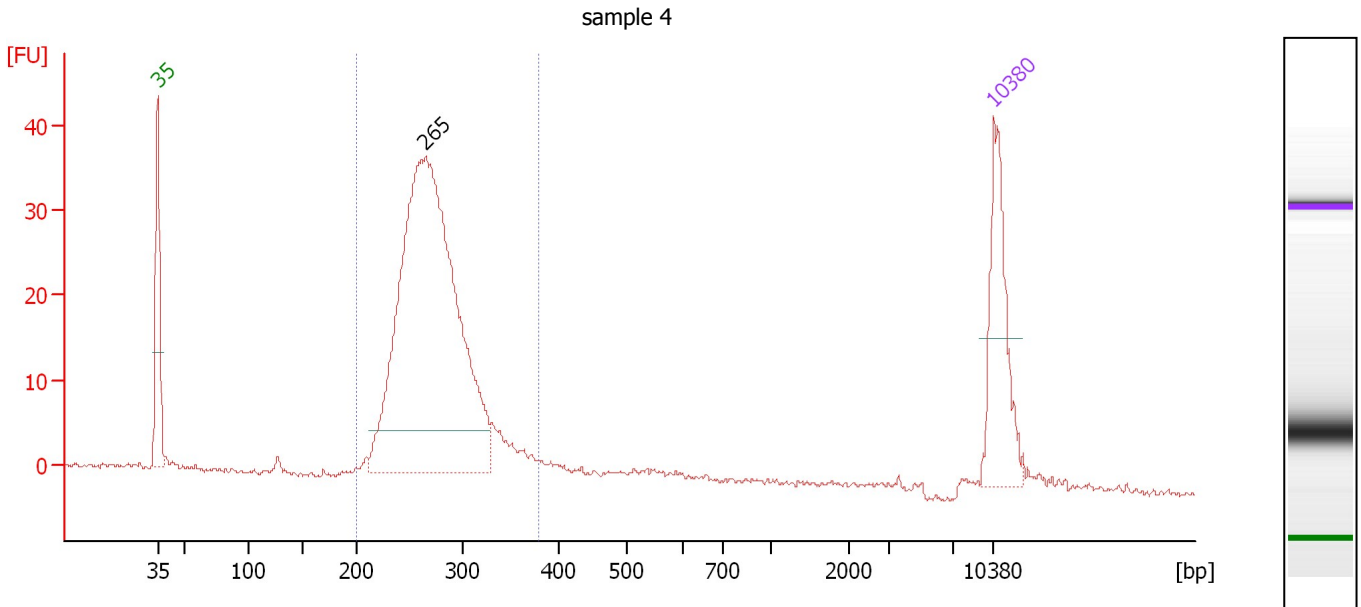
**Region table for sample 3 : sample 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	303	1,000	536.3	96	35.6	1,036.60	5,708.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 1                      Corr. Area 1: 351.8  
 Noise: 0.3

**Peak table for sample 4 : sample 4**

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	265	660.23	3,770.2		65.43
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 4**

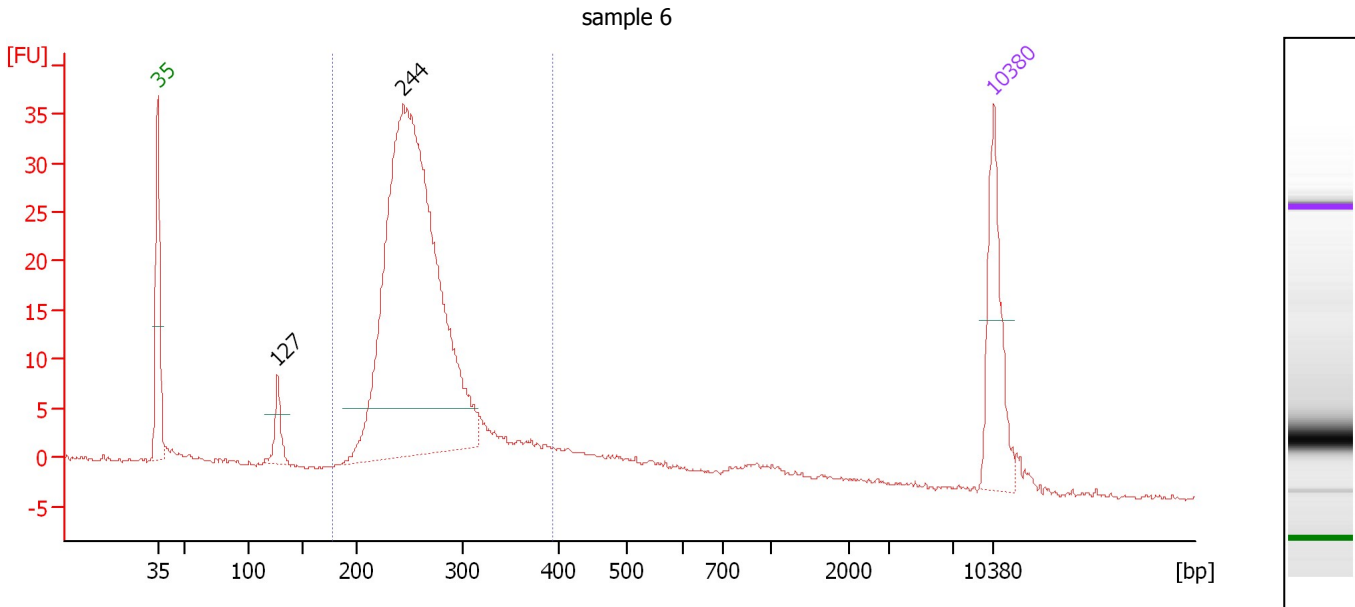
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	274	379	351.8	93	11.3	699.42	3,904.2	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 2                      Corr. Area 1: 354.6  
 Noise: 0.2

**Peak table for sample 6 : sample 6**

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	127	34.17	406.9		53.02
3	244	834.64	5,173.5		63.57
4	10,380	75.00	10.9	Upper Marker	113.00

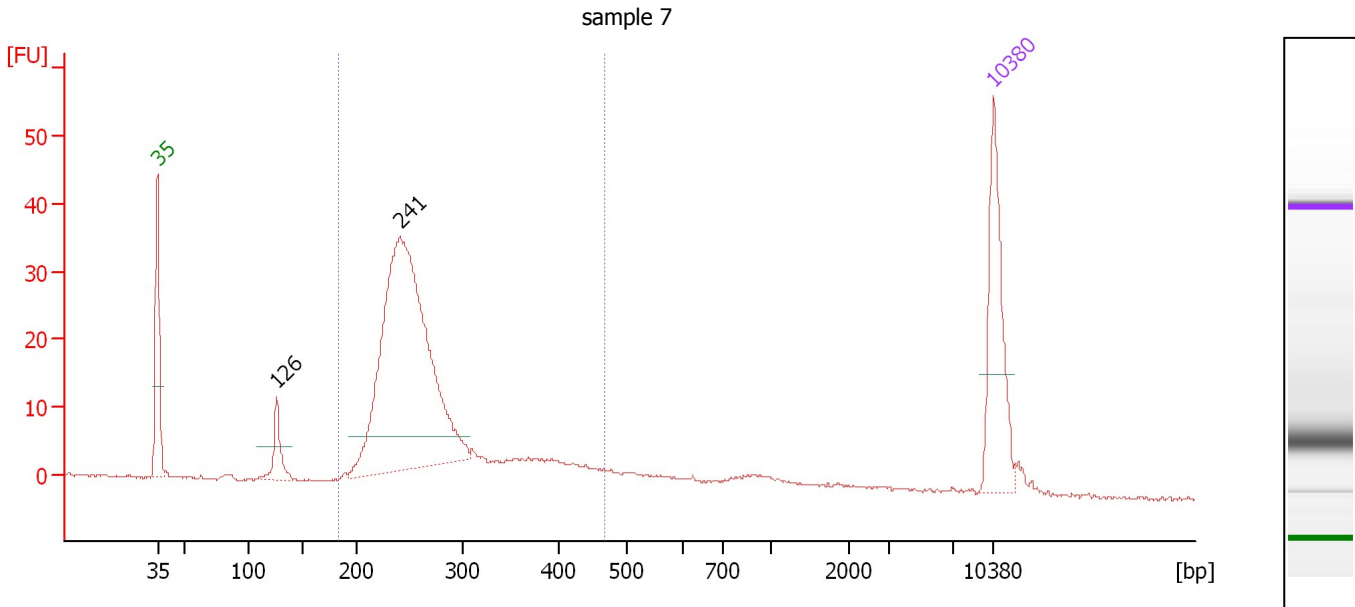
**Region table for sample 6 : sample 6**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
178	265	393	354.6	81	14.3	974.06	5,673.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 2                      Corr. Area 1: 335.3  
 Noise: 0.2

**Peak table for sample 7 : sample 7**

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	126	35.59	426.4		52.95
3	241	488.43	3,066.3		63.29
4	10,380	75.00	10.9	Upper Marker	113.00

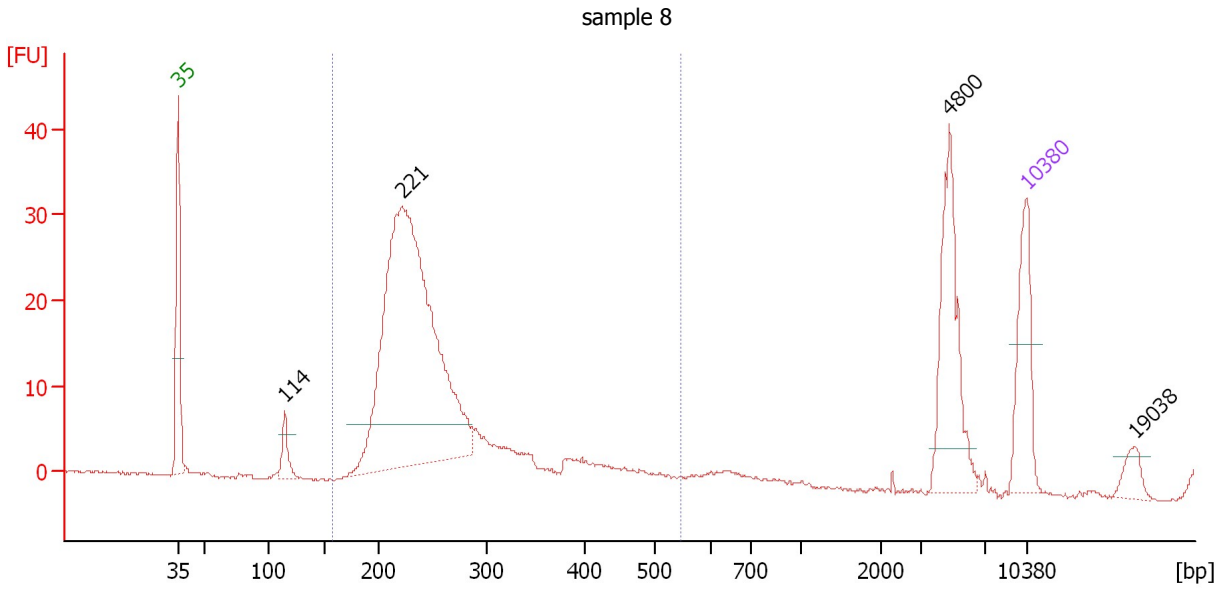
**Region table for sample 7 : sample 7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
183	272	468	335.3	84	20.6	636.40	3,695.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 4                      Corr. Area 1: 328.7  
 Noise: 0.2

**Peak table for sample 8 : sample 8**

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	114	33.99	452.8		51.79
3	221	863.18	5,920.4		61.47
4	4,800	131.11	41.4		106.62
5	10,380	75.00	10.9	Upper Marker	113.00
6	19,038	0.00	0.0		121.88

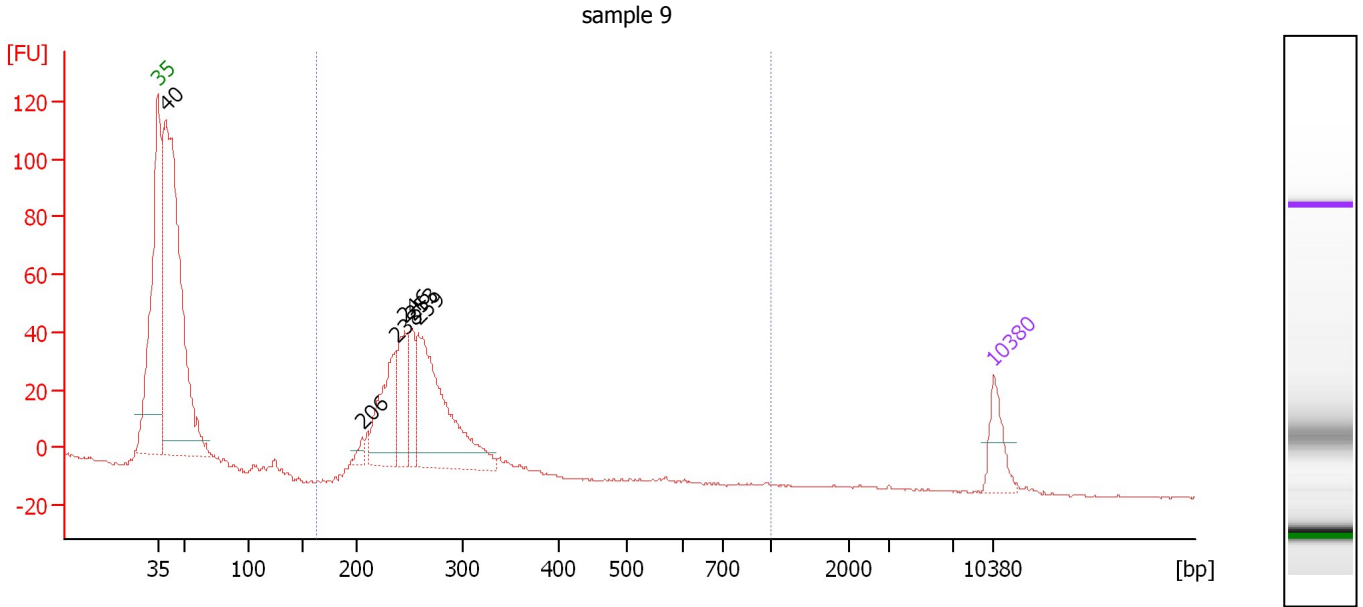
**Region table for sample 8 : sample 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
156	253	546	328.7	80	23.0	1,053.41	6,603.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 6                      Corr. Area 1: 428.4  
 Noise: 0.3

**Peak table for sample 9 : sample 9**

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	40	1,636.14	62,454.2		43.69
3	206	28.43	209.6		60.09
4	238	270.52	1,725.1		62.96
5	246	180.14	1,110.0		63.70
6	253	136.68	820.0		64.29
7	259	564.19	3,305.3		64.83
8	10,380	75.00	10.9	Upper Marker	113.00

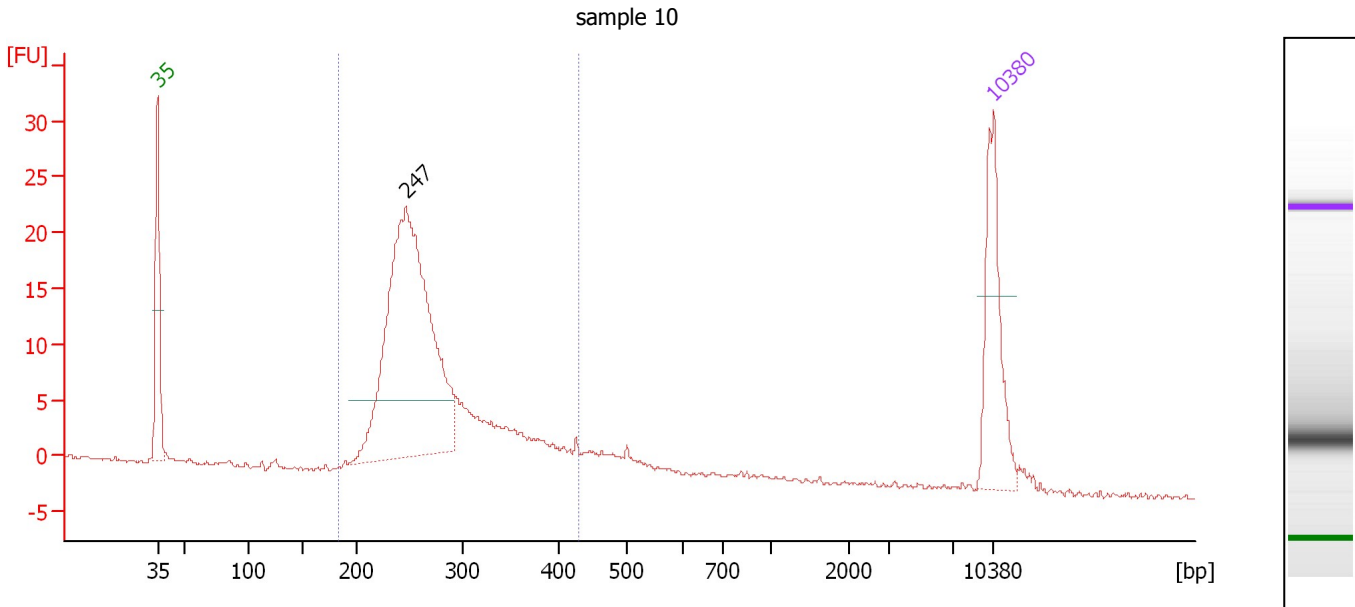
**Region table for sample 9 : sample 9**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
163	259	1,000	428.4	48	11.1	1,148.81	6,779.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 10**

Number of peaks found: 1                      Corr. Area 1: 215.7  
 Noise: 0.2

**Peak table for sample 10 : sample 10**

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	247	448.15	2,748.5		63.80
3	10,380	75.00	10.9	Upper Marker	113.00

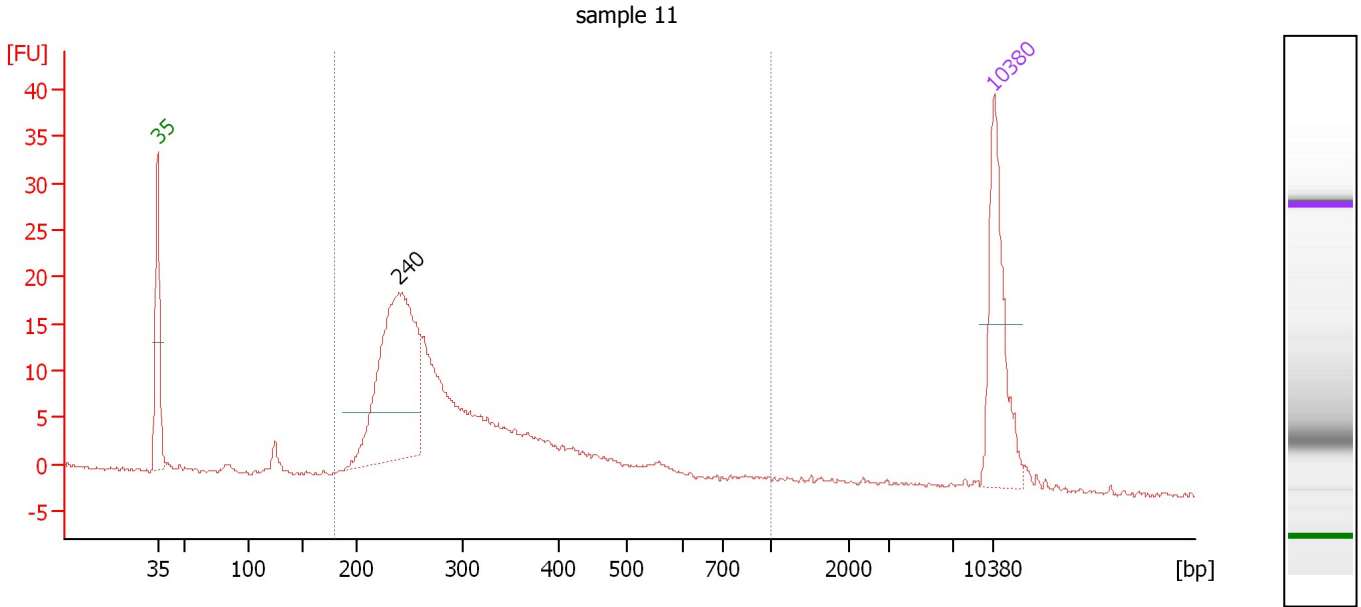
**Region table for sample 10 : sample 10**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
183	276	430	215.7	91	17.8	625.89	3,548.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
 Modified: 2/3/2015 10:52:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 1                      Corr. Area 1: 255.7  
 Noise: 0.2

**Peak table for sample 11 : sample 11**

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	240	250.01	1,575.6		63.21
3	10,380	75.00	10.9	Upper Marker	113.00

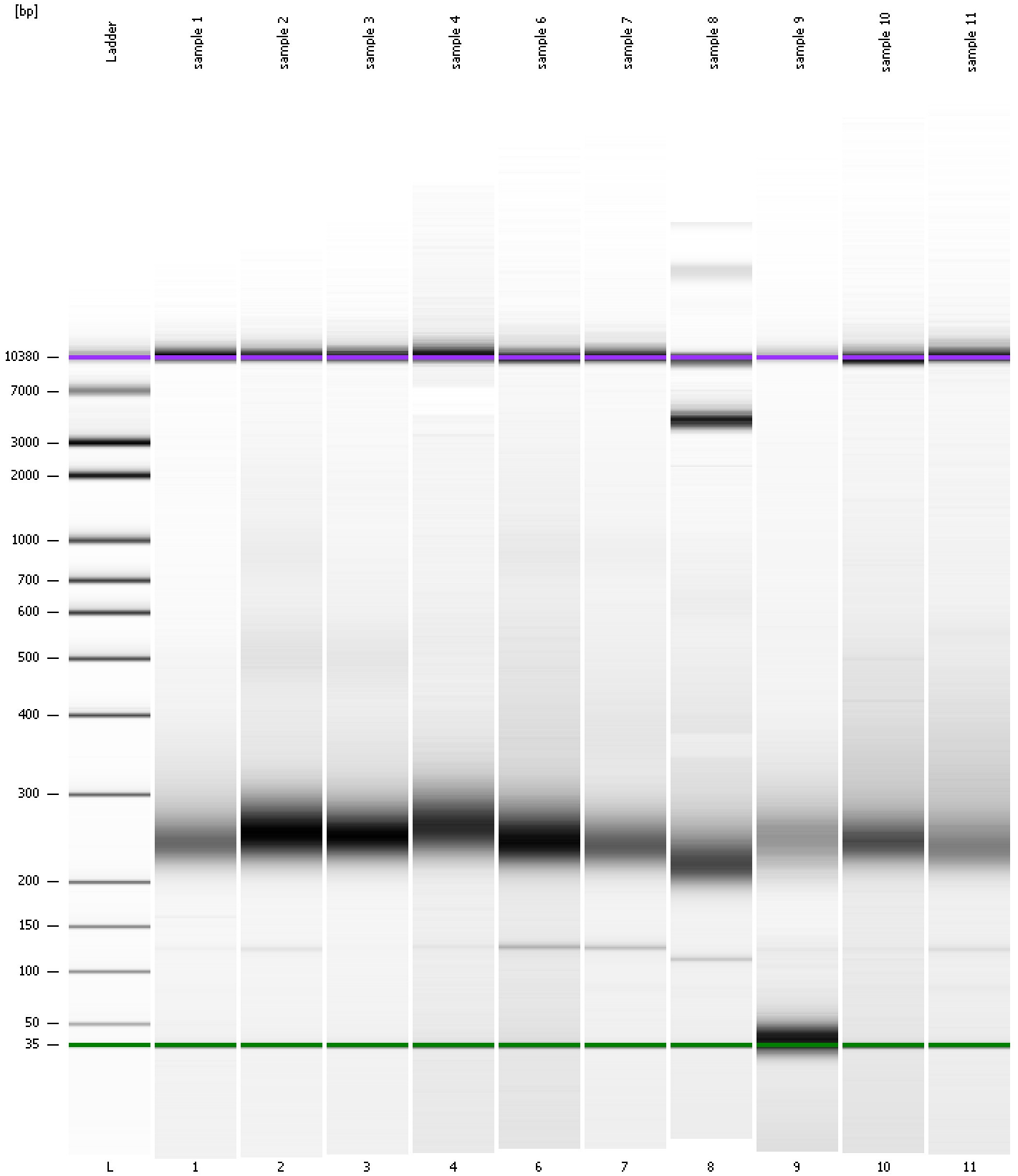
**Region table for sample 11 : sample 11**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
179	314	1,000	255.7	94	35.7	589.07	3,179.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad

Created: 2/3/2015 9:57:32 AM  
Modified: 2/3/2015 10:52:26 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 2/3/2015 9:57:32 AM  
 Data Path: C:\...Settings\Bioanalyzer\2015-02-03\2015-02-03\_001\_lucaslab.xad Modified: 2/3/2015 10:52:26 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		2/3/2015 10:38:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-03\2015-02-03_001.xad)		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/3/2015 9:57:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1