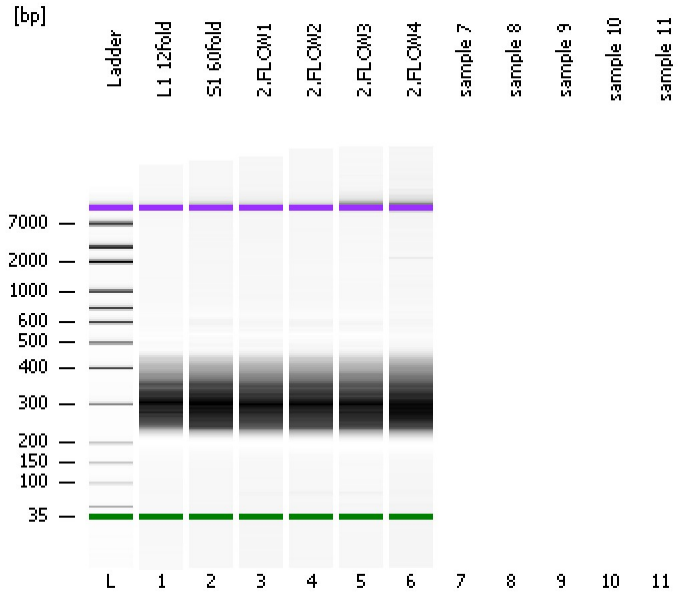
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 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

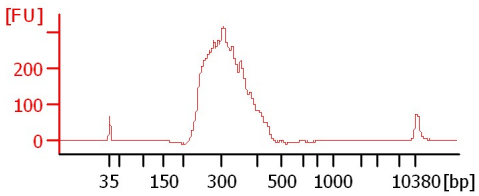
Chip Information:

Chip Lot #:

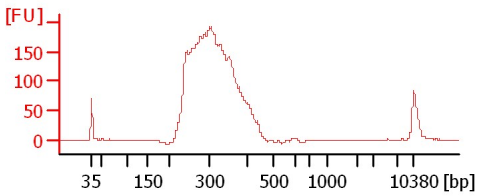
Reagent Kit Lot #:

Chip Comments:

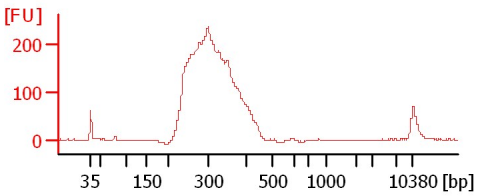
L1 12fold



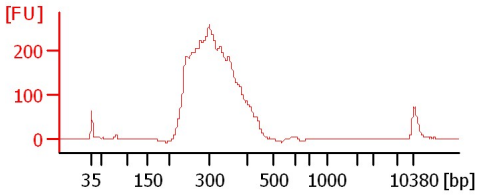
S1 60fold



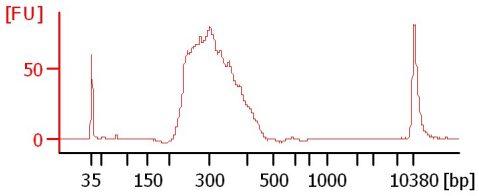
2.FLOW1



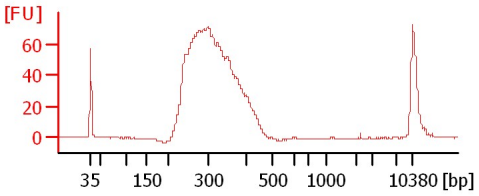
2.FLOW2



2.FLOW3



2.FLOW4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
L1 12fold		☐	✔			
S1 60fold		☐	✔			
2.FLOW1		☐	✔			
2.FLOW2		☐	✔			
2.FLOW3		☐	✔			
2.FLOW4		☐	✔			
sample 7		☐				
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 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

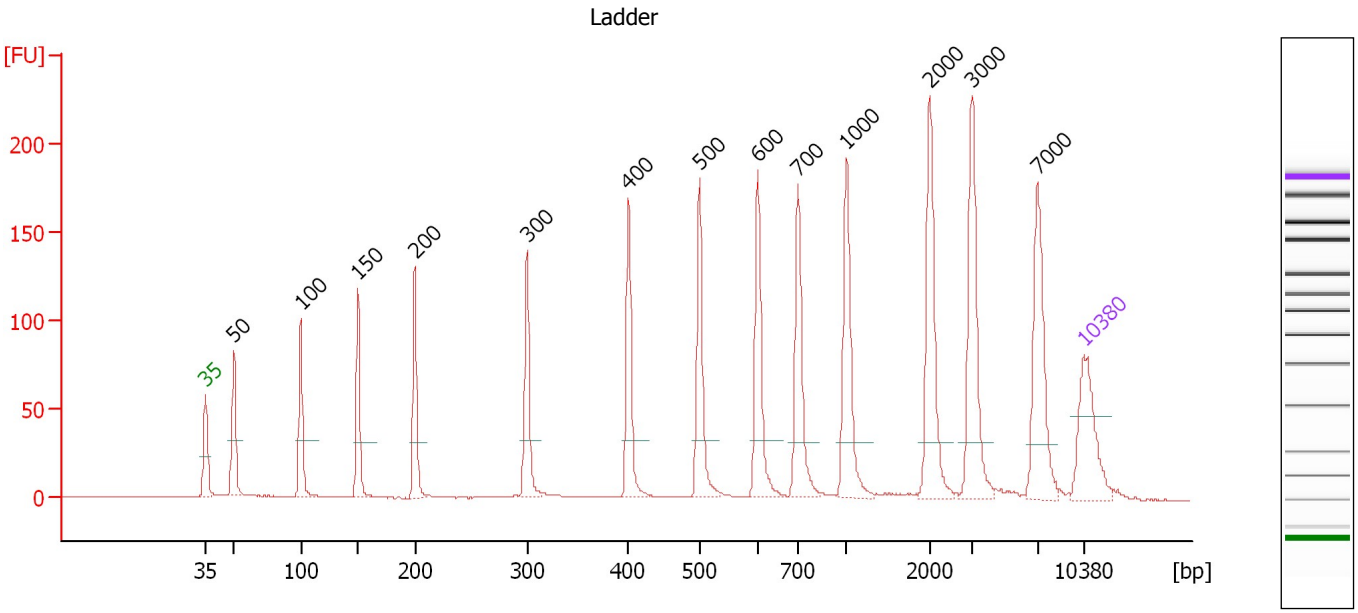
Ladder

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:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

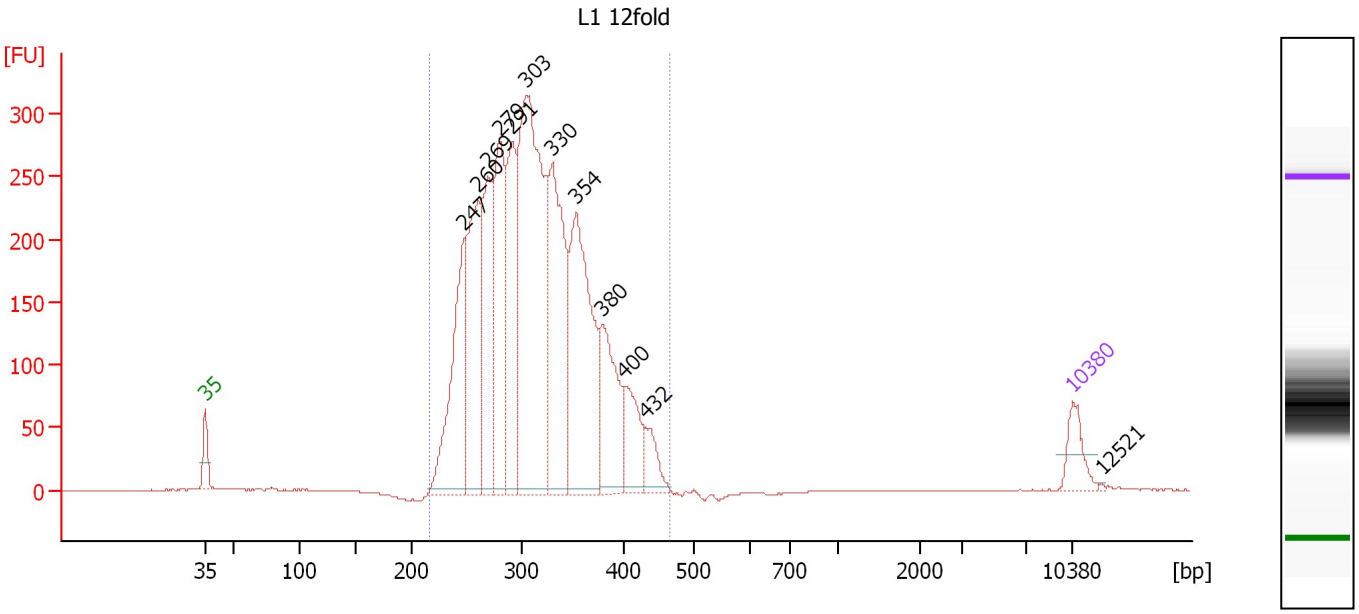
Peak table for Ladder

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\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : L1 12fold

Number of peaks found:	12	Corr. Area 1:	4,843.5
Noise:	0.2		

Peak table for sample 1 : L1 12fold

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		247	643.46	3,948.1	
3		260	584.39	3,406.0	
4		269	535.66	3,021.0	
5		279	569.44	3,089.4	
6		291	513.50	2,675.0	
7		303	1,460.47	7,298.0	
8		330	720.71	3,311.6	
9		354	790.41	3,386.7	
10		380	364.85	1,456.2	
11		400	199.09	753.3	
12		432	96.65	338.6	
13	▶	10,380	75.00	10.9	Upper Marker
14		12,521	0.00	0.0	

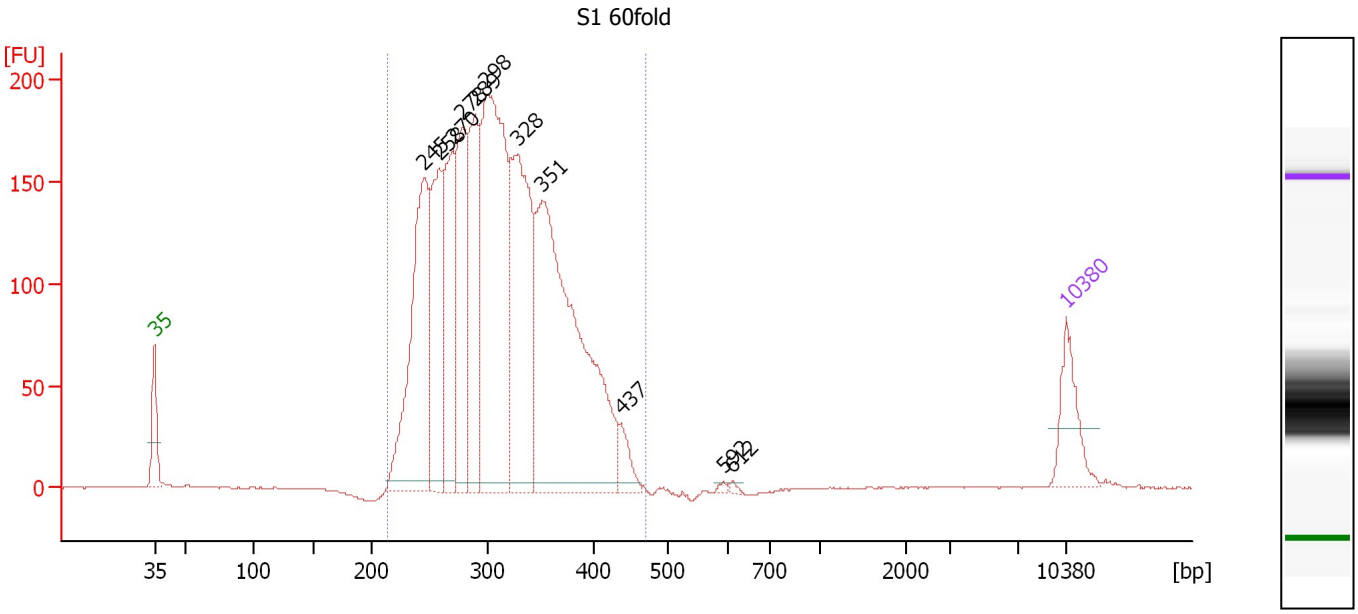
Region table for sample 1 : L1 12fold

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	466	314	31,488.0	6,315.32	4,843.5	99	15.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : S1 60fold

Number of peaks found:	11	Corr. Area 1:	3,312.4
Noise:	0.2		

Peak table for sample 2 : S1 60fold

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		245	514.63	3,187.6	
3		258	298.98	1,753.7	
4		270	280.71	1,577.9	
5		278	322.83	1,760.3	
6		289	311.25	1,631.2	
7		298	715.38	3,632.4	
8		328	486.33	2,244.1	
9		351	868.91	3,751.6	
10		437	46.34	160.7	
11		592	4.51	11.5	
12		612	4.02	9.9	
13	▶	10,380	75.00	10.9	Upper Marker

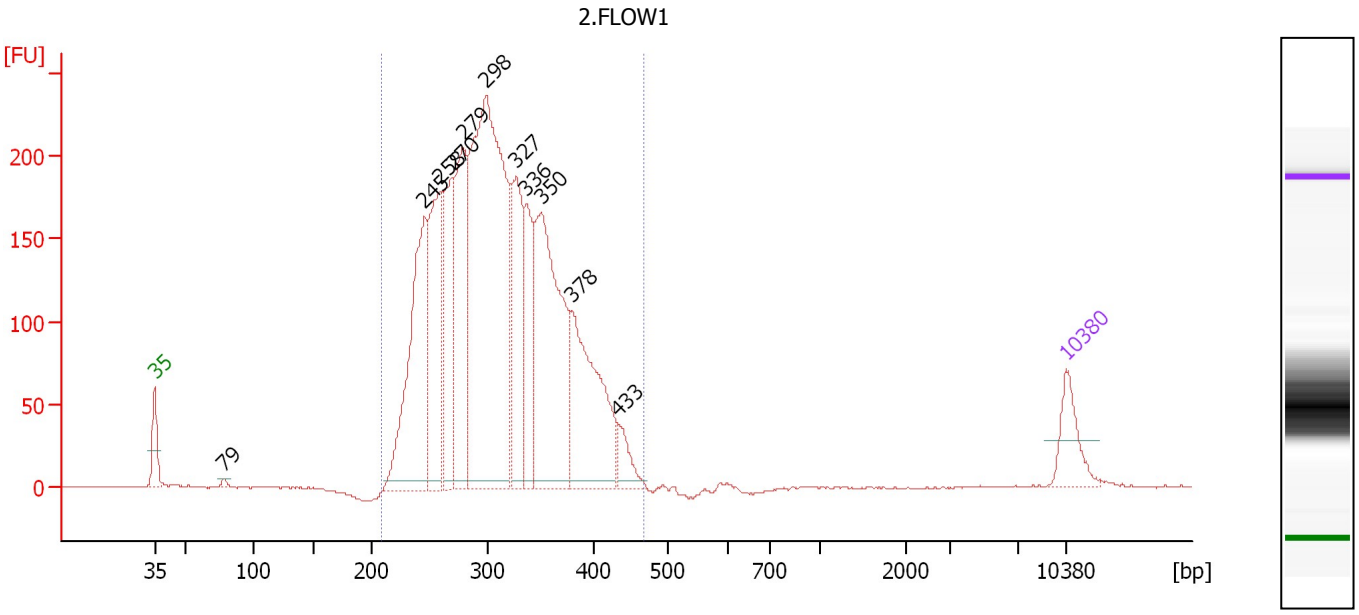
Region table for sample 2 : S1 60fold

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	470	311	18,738.7	3,721.11	3,312.4	99	16.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2.FLOW1

Number of peaks found:	11	Corr. Area 1:	3,793.6
Noise:	0.5		

Peak table for sample 3 : 2.FLOW1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		79	9.28	178.9	
3		245	547.80	3,383.3	
4		258	376.50	2,214.0	
5		270	306.83	1,725.0	
6		279	394.18	2,141.5	
7		298	1,282.62	6,518.4	
8		327	291.32	1,351.0	
9		336	211.66	954.7	
10		350	614.81	2,661.2	
11		378	412.75	1,653.3	
12		433	59.87	209.3	
13	▶	10,380	75.00	10.9	Upper Marker

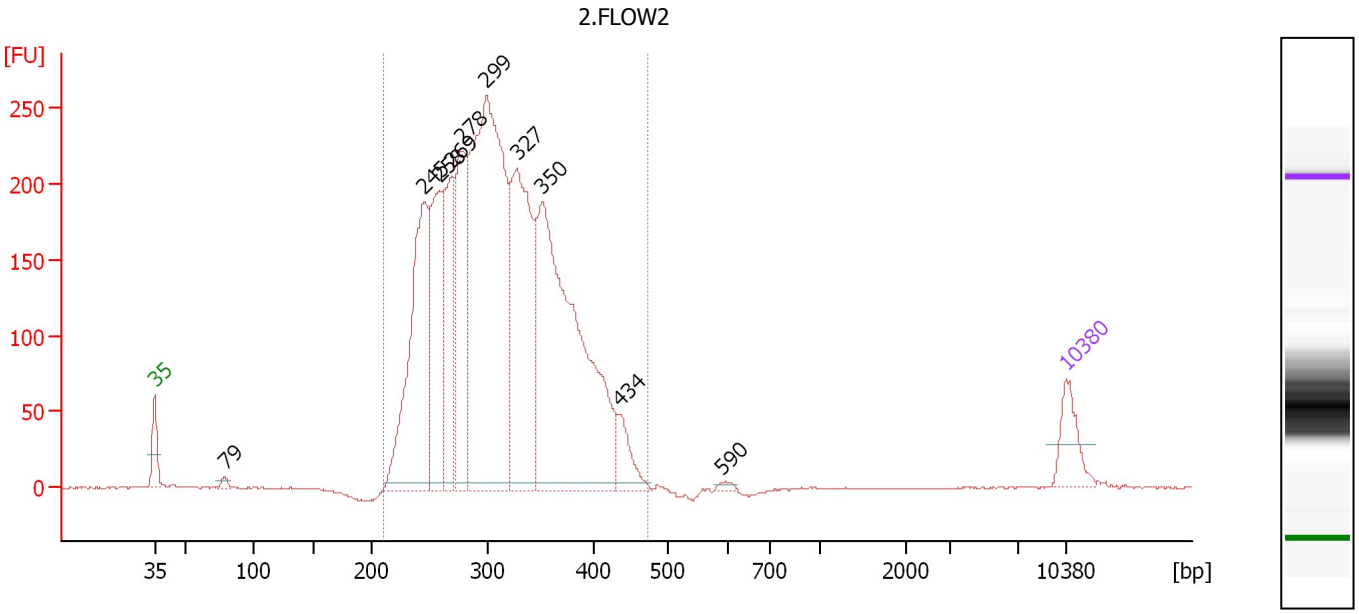
Region table for sample 3 : 2.FLOW1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
208	467	312	22,810.2	4,533.64	3,793.6	100	16.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2.FLOW2

Number of peaks found:	10	Corr. Area 1:	4,229.5
Noise:	0.3		

Peak table for sample 4 : 2.FLOW2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		79	14.74	283.0	
3		245	703.34	4,349.2	
4		258	410.95	2,412.8	
5		269	363.88	2,052.6	
6		278	403.77	2,203.6	
7		299	1,385.77	7,029.7	
8		327	692.73	3,207.6	
9		350	1,184.62	5,122.7	
10		434	91.70	320.1	
11		590	10.32	26.5	
12	▶	10,380	75.00	10.9	Upper Marker

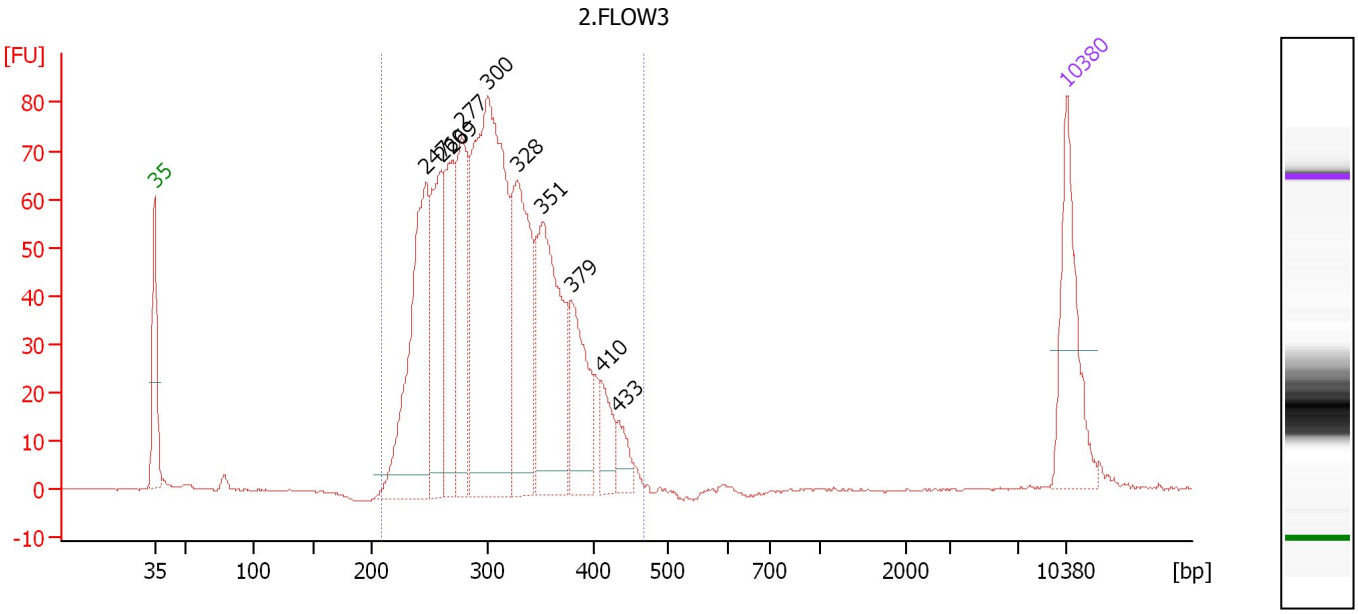
Region table for sample 4 : 2.FLOW2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	474	312	25,799.7	5,134.37	4,229.5	99	16.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2.FLOW3

Number of peaks found:	10	Corr. Area 1:	1,321.4
Noise:	0.2		

Peak table for sample 5 : 2.FLOW3

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		247	234.27	1,439.3	
3		260	134.36	783.7	
4		269	108.35	610.6	
5		277	129.83	708.9	
6		300	419.09	2,118.4	
7		328	178.24	824.5	
8		351	196.01	845.0	
9		379	91.52	366.1	
10		410	34.85	128.7	
11		433	20.46	71.5	
12	▶	10,380	75.00	10.9	Upper Marker

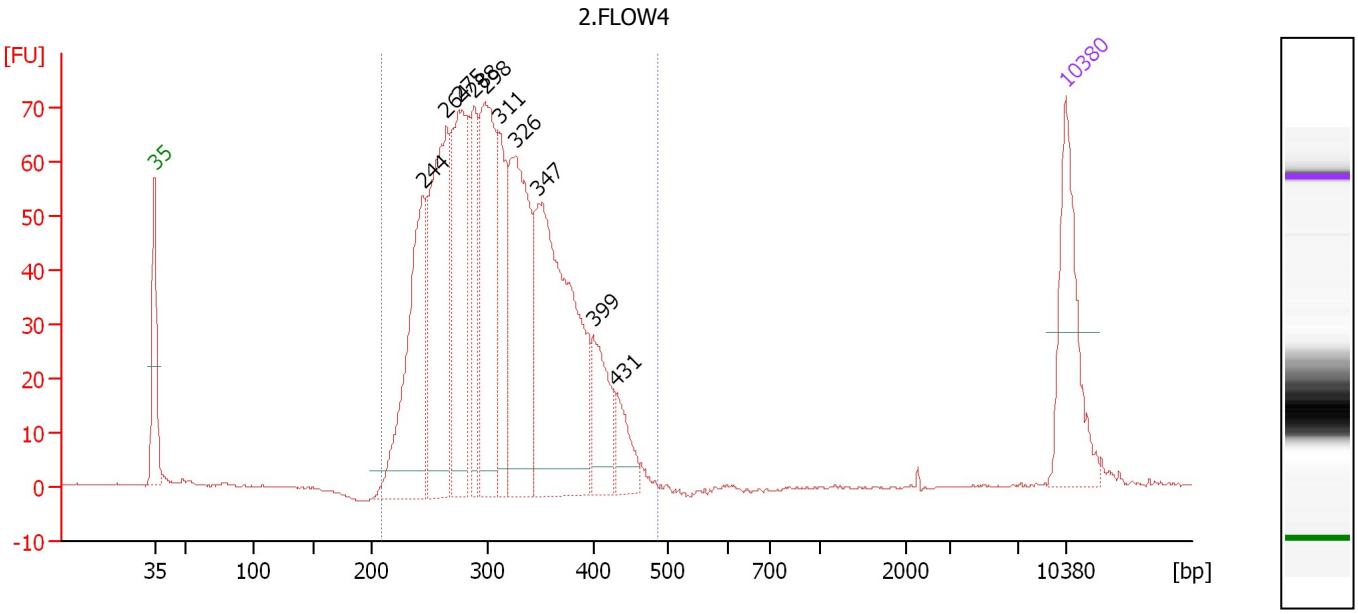
Region table for sample 5 : 2.FLOW3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
208	468	311	7,834.4	1,549.95	1,321.4	99	16.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2.FLOW4

Number of peaks found:	10	Corr. Area 1:	1,268.7
Noise:	0.2		

Peak table for sample 6 : 2.FLOW4

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		244	200.16	1,240.5	
3		264	220.34	1,263.2	
4		275	165.73	913.3	
5		288	78.58	413.2	
6		298	182.10	926.5	
7		311	92.51	450.7	
8		326	191.36	890.7	
9		347	294.69	1,285.7	
10		399	62.52	237.3	
11		431	32.22	113.3	
12	▶	10,380	75.00	10.9	Upper Marker

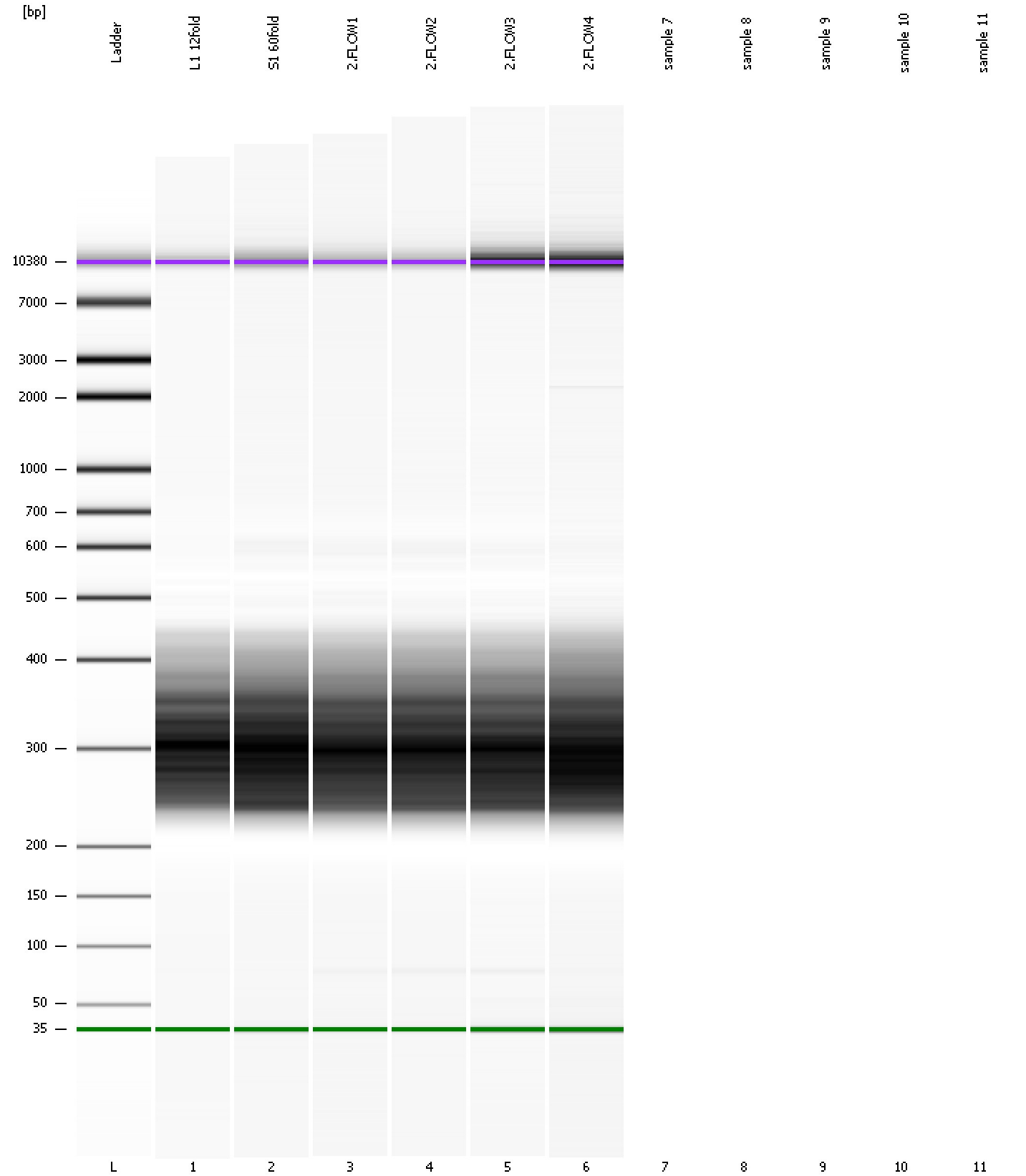
Region table for sample 6 : 2.FLOW4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
209	486	313	7,622.6	1,514.35	1,268.7	99	17.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

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\2013-02-20\2013-02-20_002.xad

Created: 2/20/2013 11:10:35 AM
Modified: 2/20/2013 11:41:15 AM

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		2/20/2013 11:37:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-20\2013-02-20_002.xad)		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/20/2013 11:10:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1