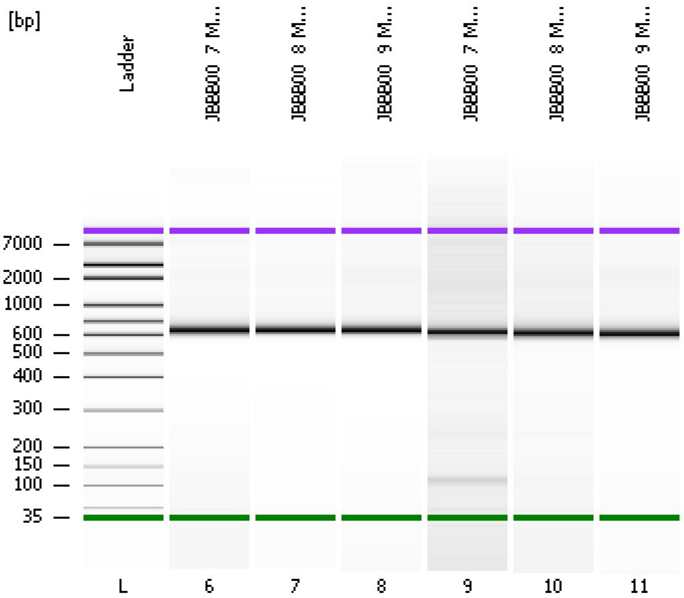
Electrophoresis File Run Summary



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

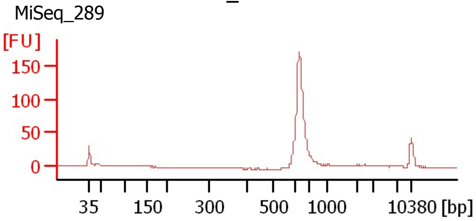
Chip Information:

Chip Lot #:

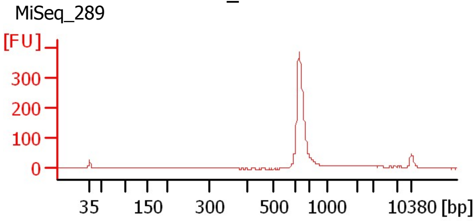
Reagent Kit Lot #:

Chip Comments:

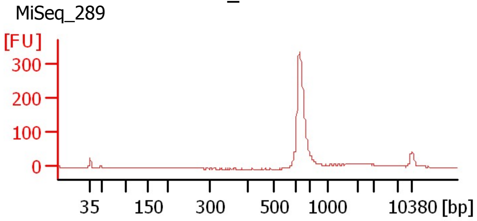
JBBB00_7 Ma BC



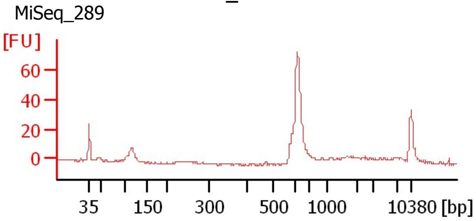
JBBB00_8 Ma BC



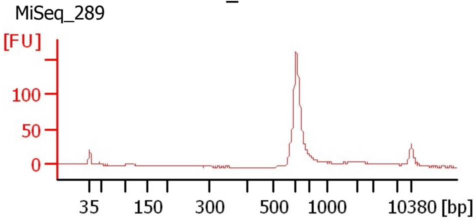
JBBB00_9 Ma BC



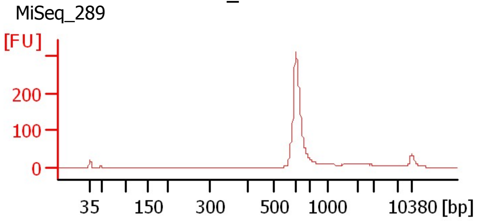
JBBB00_7 Mb BC



JBBB00_8 Mb BC



JBBB00_9 Mb BC



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2016-03-02\2016-03-02_002_MiSeq289_7-9Ma_7-9Mb.xad
Created: 3/2/2016 3:28:41 PM
Modified: 3/2/2016 4:12:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JBBB00_7 Ma BC	MiSeq_289	☐	✓			
JBBB00_8 Ma BC	MiSeq_289	☐	✓			
JBBB00_9 Ma BC	MiSeq_289	☐	✓			
JBBB00_7 Mb BC	MiSeq_289	☐	✓			
JBBB00_8 Mb BC	MiSeq_289	☐	✓			
JBBB00_9 Mb BC	MiSeq_289	☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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

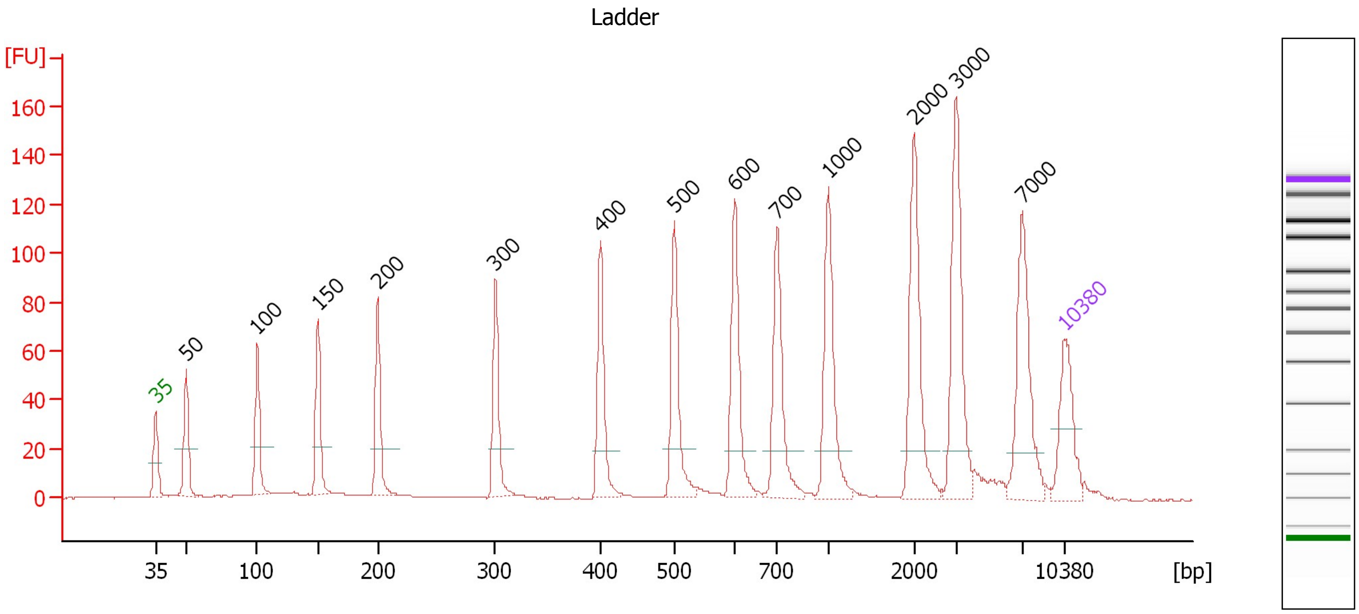
Filter Width [s] : 0.5
Polynomial Order : 4

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	Created:	3/2/2016 3:28:41 PM
Data Path:	C:\...analyzer\2016-03-02\2016-03-02_002_MiSeq289_7-9Ma_7-9Mb.xad	Modified:	3/2/2016 4:12:27 PM

Electropherogram Summary



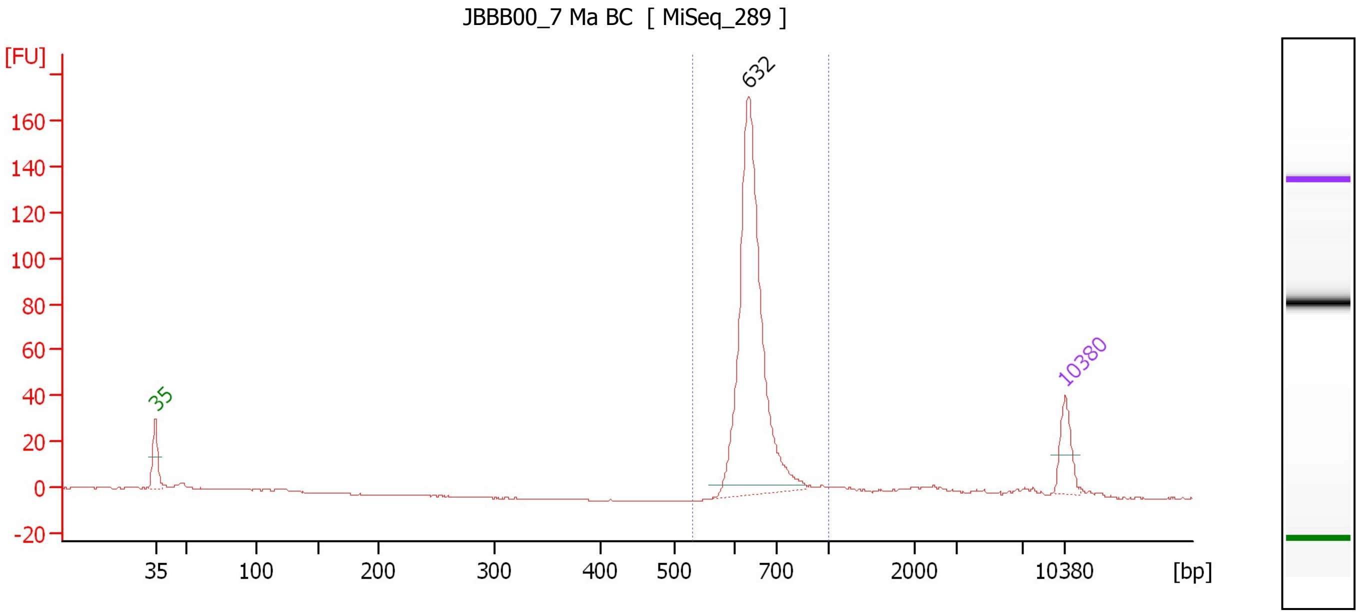
Overall Results for Ladder

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	45.35
3	∟	100	150.00	2,272.7	Ladder Peak	50.84
4	∟	150	150.00	1,515.2	Ladder Peak	55.49
5	∟	200	150.00	1,136.4	Ladder Peak	60.09
6	∟	300	150.00	757.6	Ladder Peak	69.17
7	∟	400	150.00	568.2	Ladder Peak	77.27
8	∟	500	150.00	454.5	Ladder Peak	82.94
9	∟	600	150.00	378.8	Ladder Peak	87.59
10	∟	700	150.00	324.7	Ladder Peak	90.86
11	∟	1,000	150.00	227.3	Ladder Peak	94.80
12	∟	2,000	150.00	113.6	Ladder Peak	101.40
13	∟	3,000	150.00	75.8	Ladder Peak	104.63
14	∟	7,000	150.00	32.5	Ladder Peak	109.77
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...



Overall Results for sample 6 : JBBB00_7 Ma BC

Number of peaks found: 1 Corr. Area 1: 384.3

Noise: 0.2

Peak table for sample 6 : JBBB00_7 Ma BC

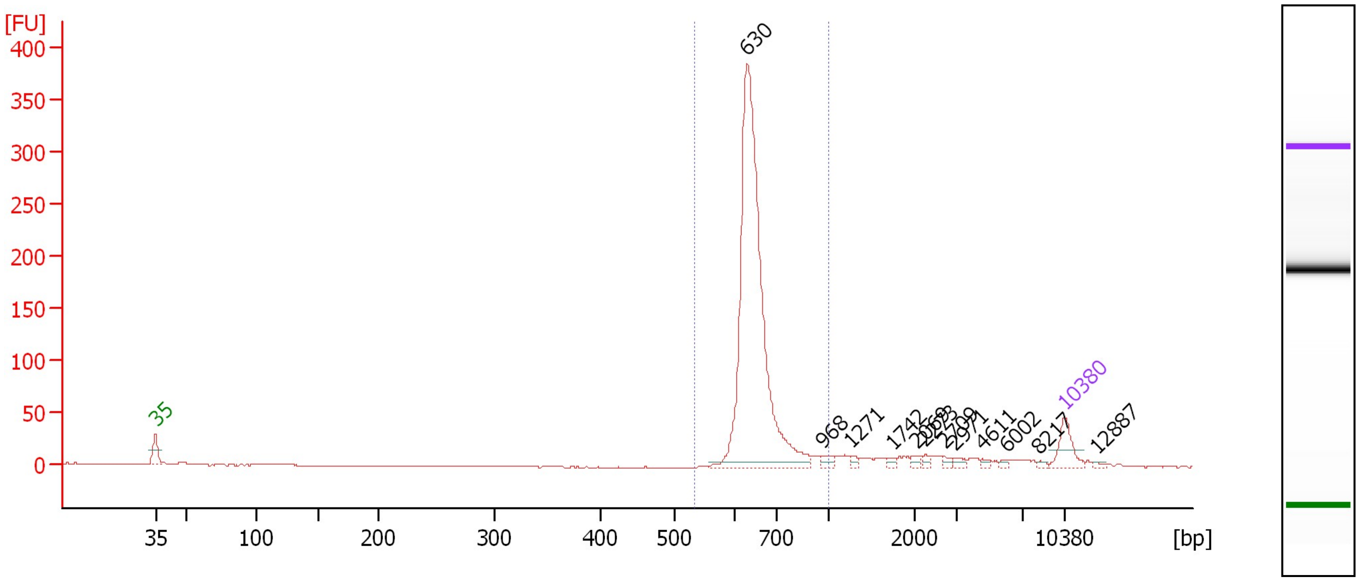
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		632	1,001.50	2,402.9		88.62
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : JBBB00_7 Ma BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co lor	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
529	1,000	650	384.3	2,346.7	■	1,001.84	89	8.2

Electropherogram Summary Continued ...

JBBB00_8 Ma BC [MiSeq_289]



Overall Results for sample 7 : JBBB00_8 Ma BC

Number of peaks found:	12	Corr. Area 1:	817.0
Noise:	0.4		

Peak table for sample 7 : JBBB00_8 Ma BC

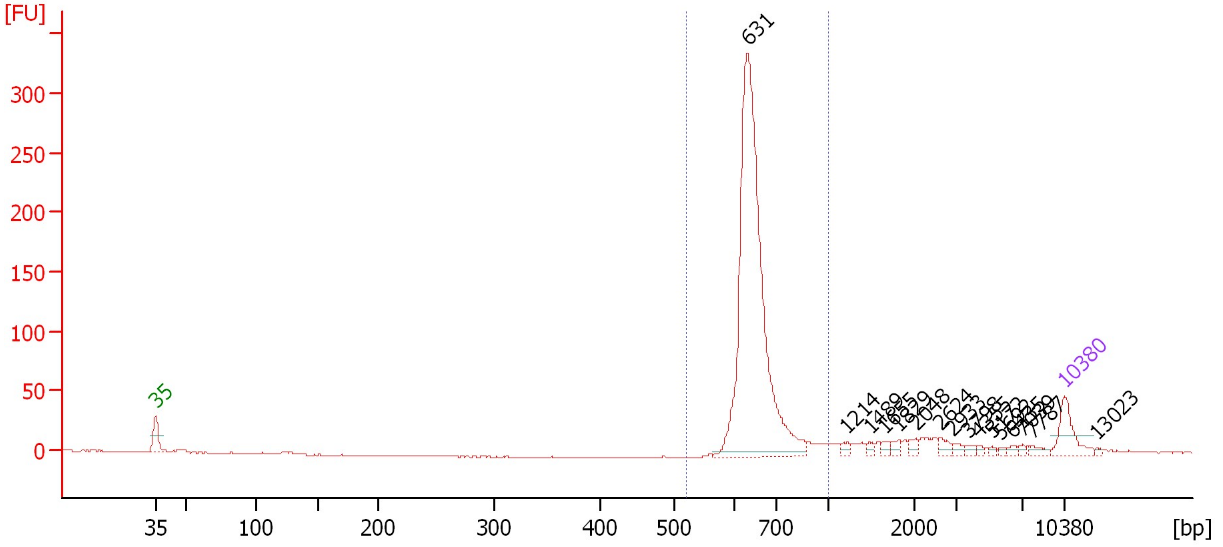
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		630	1,601.18	3,853.6		88.55
3		968	23.63	37.0		94.38
4		1,271	13.27	15.8		96.59
5		1,742	11.39	9.9		99.70
6		2,069	13.17	9.6		101.62
7		2,273	10.97	7.3		102.28
8		2,709	12.88	7.2		103.69
9		2,971	13.99	7.1		104.54
10		4,611	8.31	2.7		106.70
11		6,002	7.97	2.0		108.49
12		8,217	7.00	1.3		110.93
13	▶	10,380	75.00	10.9	Upper Marker	113.00
14		12,887	0.00	0.0		115.40

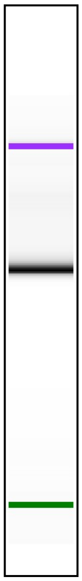
Region table for sample 7 : JBBB00_8 Ma BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
533	1,000	655	817.0	3,718.5	🟦	1,597.62	83	9.0

Electropherogram Summary Continued ...

JBBB00_9 Ma BC [MiSeq_289]





Overall Results for sample 8 : **JBBB00_9 Ma BC**

Number of peaks found:	16	Corr. Area 1:	722.5
Noise:	0.4		

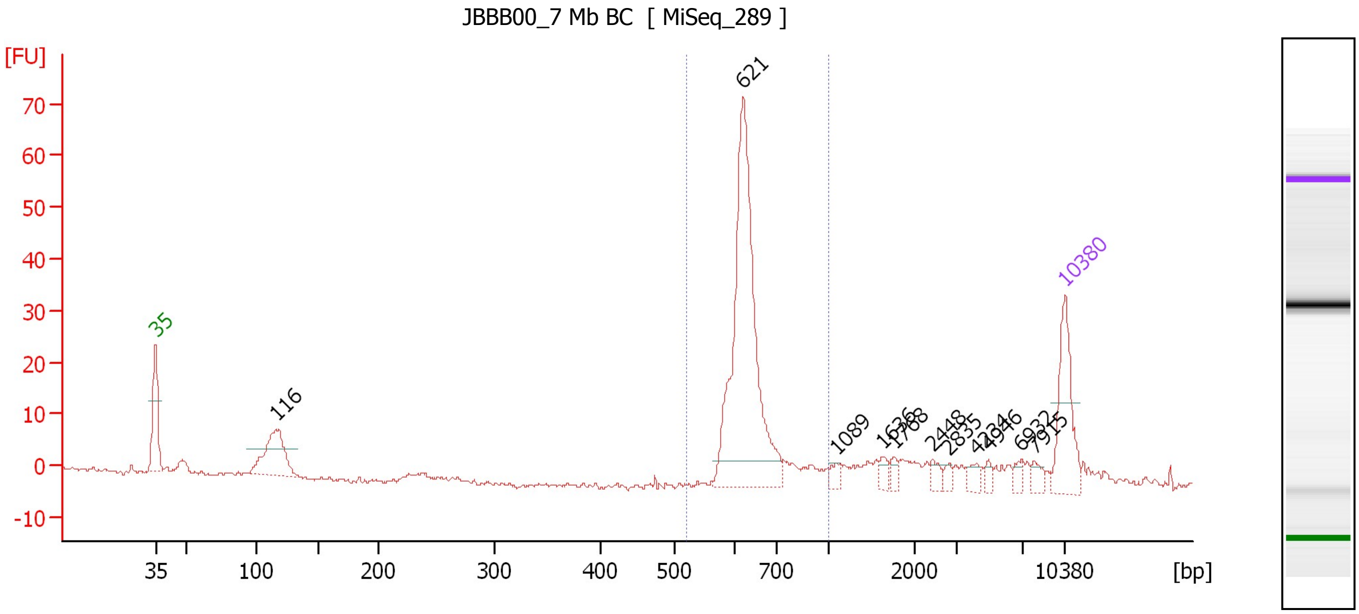
Peak table for sample 8 : **JBBB00_9 Ma BC**

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		631	1,285.67	3,089.5		88.59
3		1,214	14.39	18.0		96.22
4		1,489	10.39	10.6		98.03
5		1,655	11.40	10.4		99.12
6		1,829	14.34	11.9		100.27
7		2,048	14.72	10.9		101.56
8		2,624	18.58	10.7		103.42
9		2,933	11.73	6.1		104.42
10		3,798	10.55	4.2		105.66
11		4,355	6.24	2.2		106.37
12		5,172	5.72	1.7		107.42
13		5,692	5.51	1.5		108.09
14		6,435	9.25	2.2		109.04
15		7,039	6.66	1.4		109.81
16		7,787	13.89	2.7		110.52
17	▶	10,380	75.00	10.9	Upper Marker	113.00
18		13,023	0.00	0.0		115.53

Region table for sample 8 : **JBBB00_9 Ma BC**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
520	1,000	653	722.5	2,907.4	🟦	1,245.98	84	8.4

Electropherogram Summary Continued ...



Overall Results for sample 9 : JBBB00_7 Mb BC

Number of peaks found:	11	Corr. Area 1:	169.9
Noise:	0.5		

Peak table for sample 9 : JBBB00_7 Mb BC

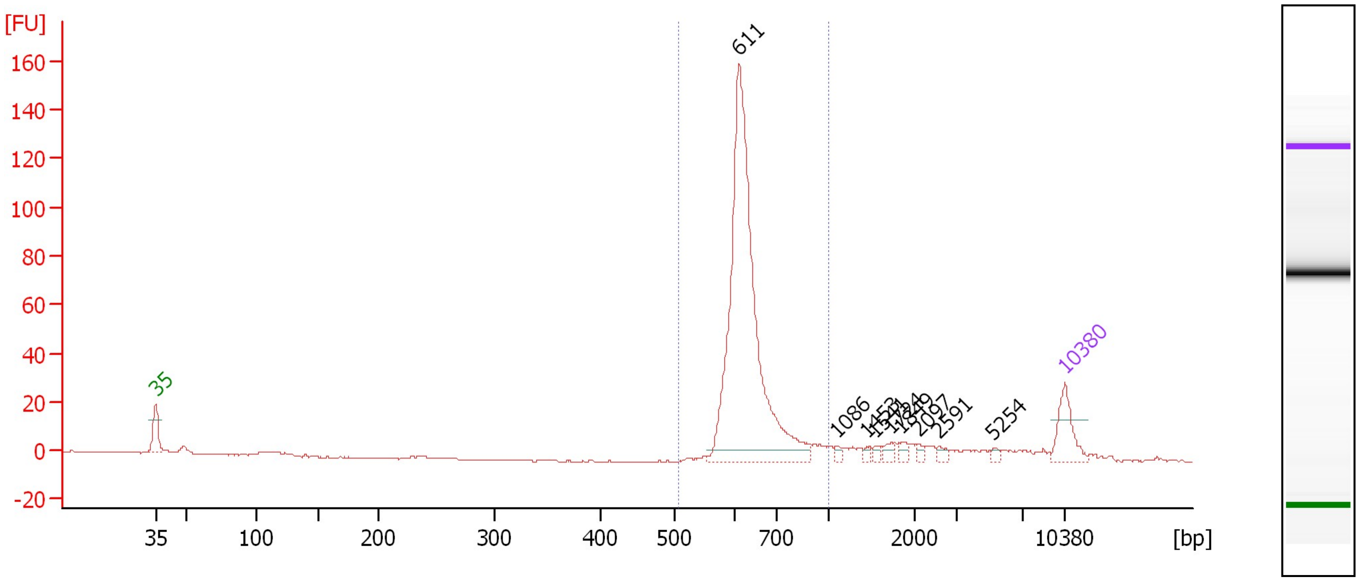
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		116	115.23	1,510.6		52.29
3		621	394.39	962.4		88.27
4		1,089	8.90	12.4		95.39
5		1,636	10.01	9.3		99.00
6		1,768	8.52	7.3		99.87
7		2,448	10.44	6.5		102.85
8		2,835	6.94	3.7		104.10
9		4,234	10.39	3.7		106.22
10		4,946	7.12	2.2		107.13
11		6,932	8.71	1.9		109.68
12		7,915	10.13	1.9		110.64
13	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : JBBB00_7 Mb BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
521	1,000	648	169.9	1,018.7	🟦	430.63	53	11.8

Electropherogram Summary Continued ...

JBBB00_8 Mb BC [MiSeq_289]



Overall Results for sample 10 : **JBBB00_8 Mb BC**

Number of peaks found: 9
Corr. Area 1: 391.0
Noise: 0.3

Peak table for sample 10 : **JBBB00_8 Mb BC**

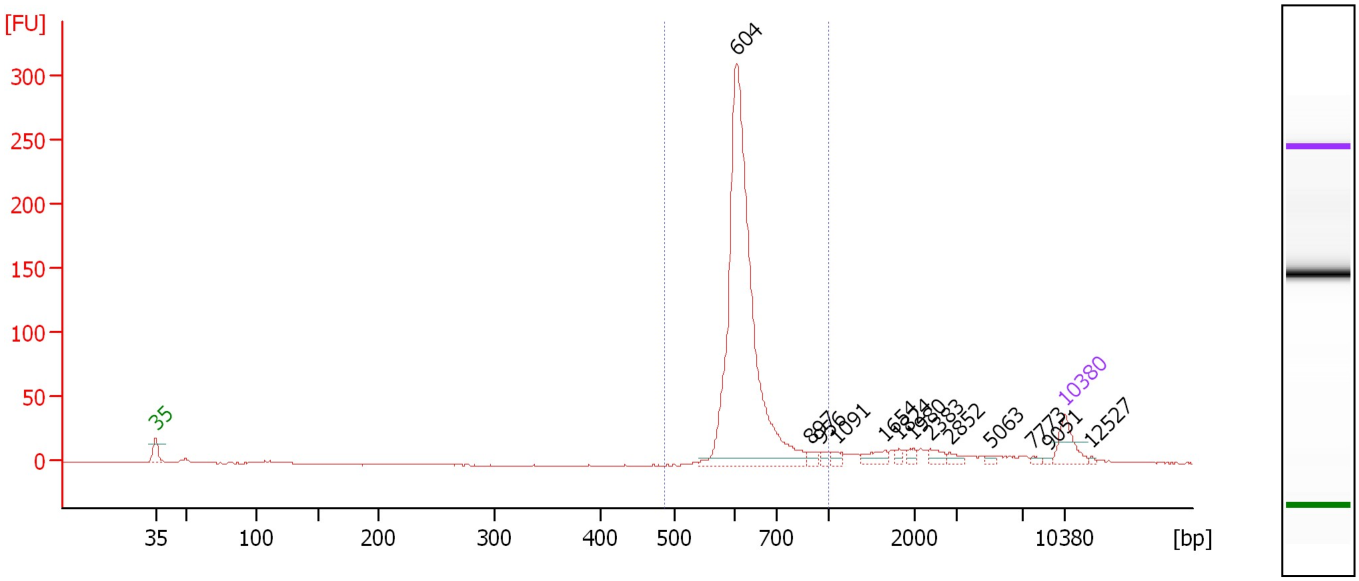
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		611	1,061.08	2,630.1		87.96
3		1,086	9.88	13.8		95.37
4		1,453	8.81	9.2		97.79
5		1,541	9.41	9.3		98.37
6		1,724	14.61	12.8		99.58
7		1,849	14.30	11.7		100.40
8		2,097	9.58	6.9		101.71
9		2,591	11.46	6.7		103.31
10		5,254	8.35	2.4		107.53
11	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : **JBBB00_8 Mb BC**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
507	1,000	641	391.0	2,557.2	■ 1,071.00	75	11.1

Electropherogram Summary Continued ...

JBBB00_9 Mb BC [MiSeq_289]



Overall Results for sample 11 : JBBB00 9 Mb BC

Number of peaks found:	13	Corr. Area 1:	716.0
Noise:	0.3		

Peak table for sample 11 : JBBB00 9 Mb BC

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		604	1,510.19	3,786.3		87.73
3		897	16.98	28.7		93.45
4		956	12.97	20.5		94.23
5		1,091	19.74	27.4		95.40
6		1,654	36.95	33.8		99.12
7		1,824	14.22	11.8		100.24
8		1,980	18.23	13.9		101.27
9		2,383	25.18	16.0		102.64
10		2,852	17.40	9.2		104.15
11		5,063	10.07	3.0		107.28
12		7,773	8.20	1.6		110.51
13		9,051	5.59	0.9		111.73
14	▶	10,380	75.00	10.9	Upper Marker	113.00
15		12,527	0.00	0.0		115.05

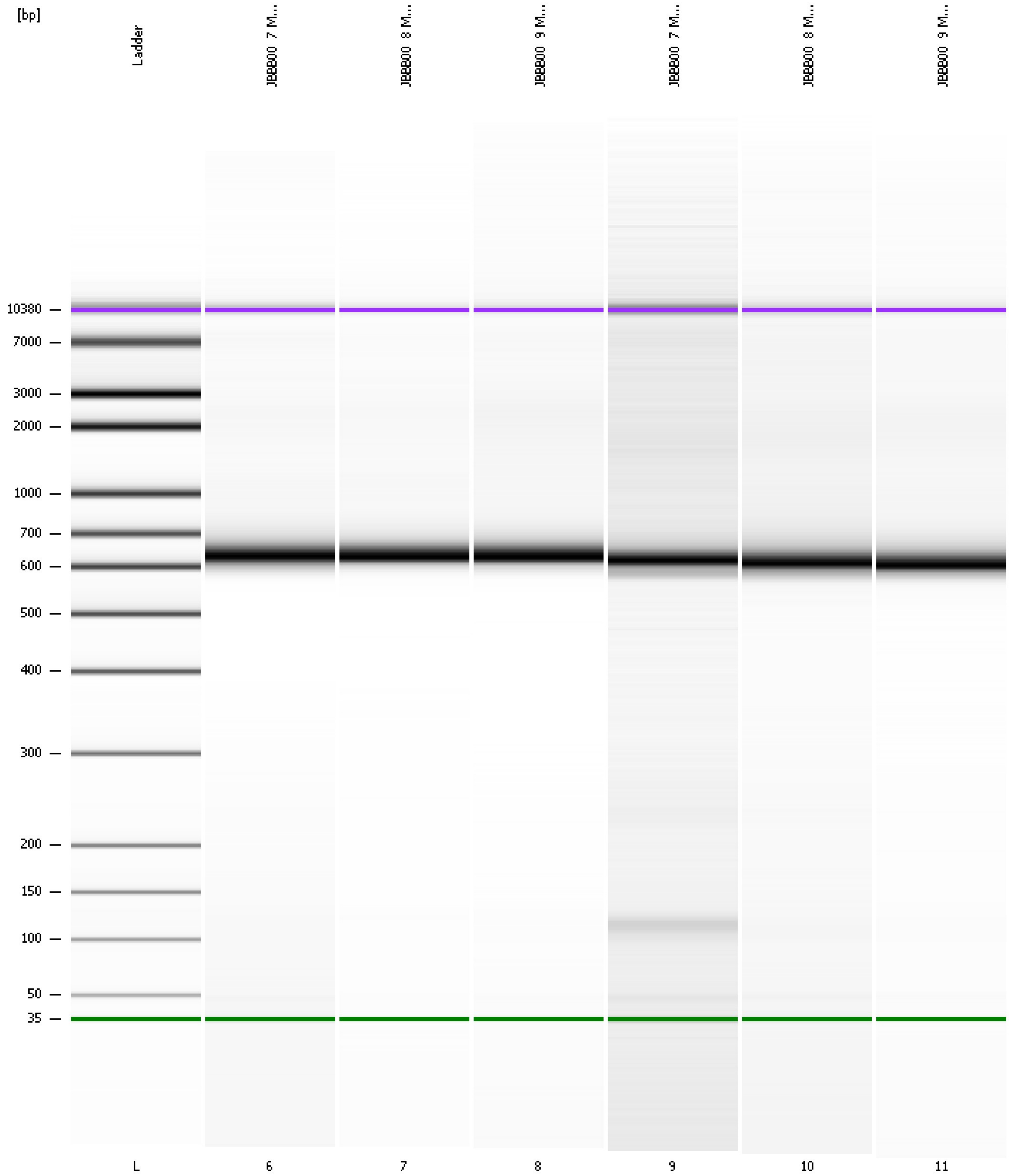
Region table for sample 11 : JBBB00 9 Mb BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
488	1,000	634	716.0	3,738.8	■	1,549.74	78	10.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2016-03-02\2016-03-02_002_MiSeq289_7-9Ma_7-9Mb.xad

Created: 3/2/2016 3:28:41 PM
Modified: 3/2/2016 4:12:27 PM

Gel Image



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		3/2/2016 4:10:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-03-02\2016-03-02_002.xad)		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/2/2016 3:28:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1