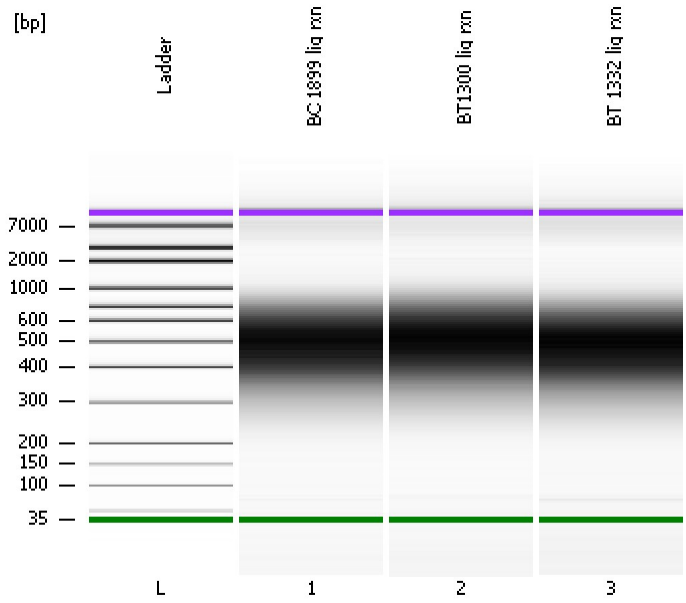
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electrophoresis File Run Summary



Instrument Information:

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

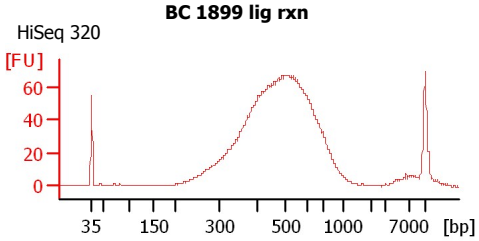
Assay Information:

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

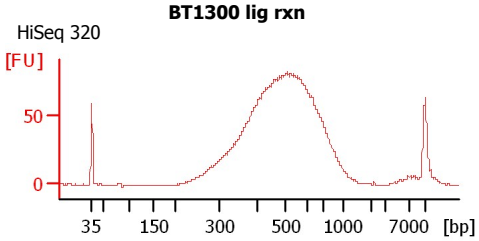
Chip Information:

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

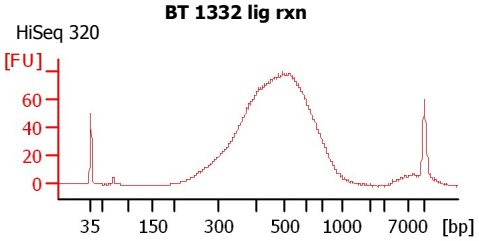
BC 1899 lig rxn



BT1300 lig rxn



BT 1332 lig rxn



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BC 1899 lig rxn	HiSeq 320	☐	✔			
BT1300 lig rxn	HiSeq 320	☐	✔			
BT 1332 lig rxn	HiSeq 320	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

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

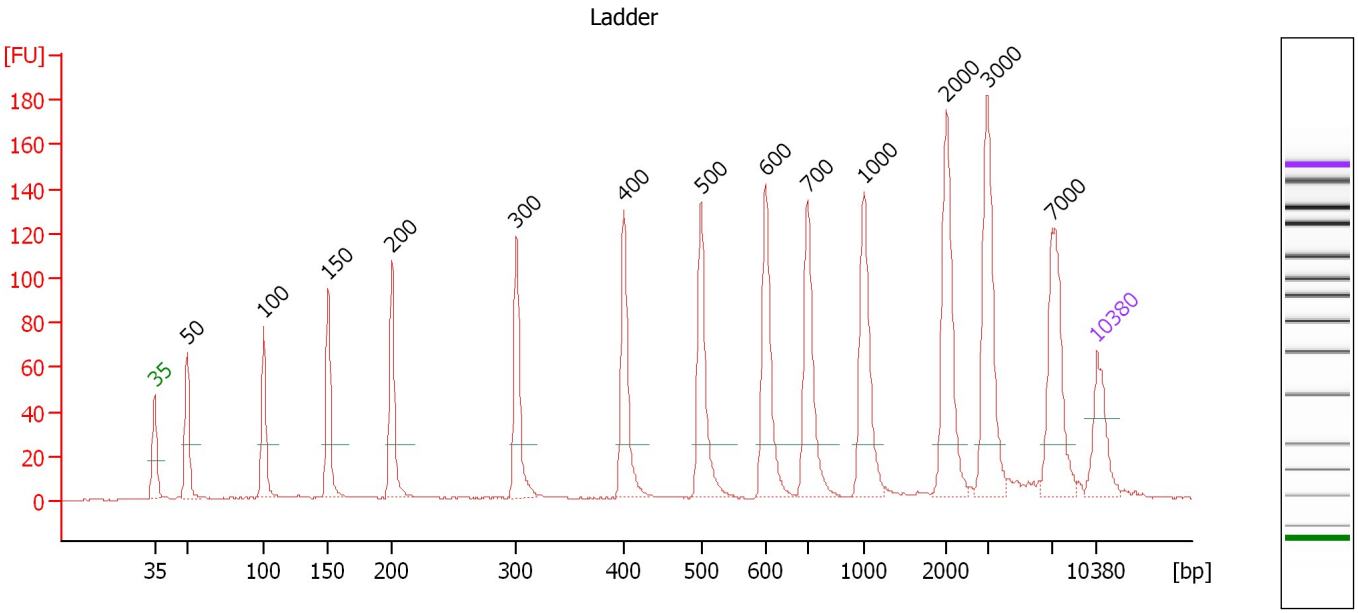
Ladder

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:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

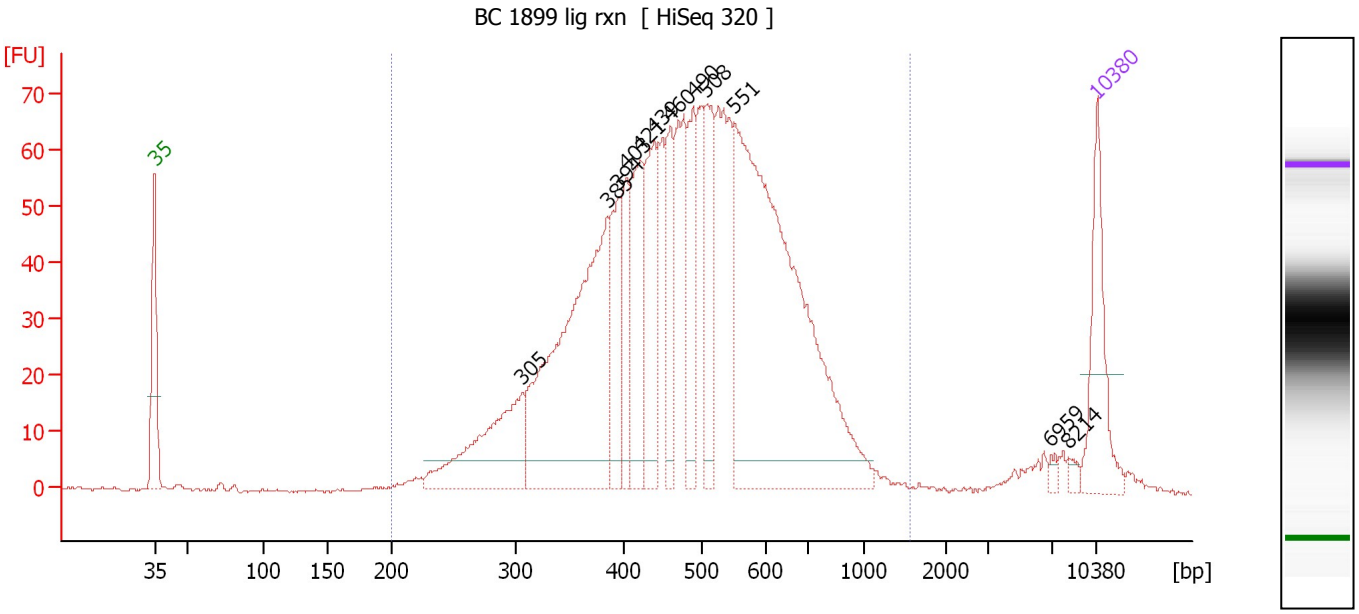
Peak table for Ladder

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	45.44
3		100	150.00	2,272.7	Ladder Peak	51.12
4		150	150.00	1,515.2	Ladder Peak	55.90
5		200	150.00	1,136.4	Ladder Peak	60.64
6		300	150.00	757.6	Ladder Peak	69.88
7		400	150.00	568.2	Ladder Peak	77.86
8		500	150.00	454.5	Ladder Peak	83.59
9		600	150.00	378.8	Ladder Peak	88.37
10		700	150.00	324.7	Ladder Peak	91.49
11		1,000	150.00	227.3	Ladder Peak	95.68
12		2,000	150.00	113.6	Ladder Peak	101.81
13		3,000	150.00	75.8	Ladder Peak	104.84
14		7,000	150.00	32.5	Ladder Peak	109.62
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BC 1899 lig rxn

Number of peaks found:	12	Corr. Area 1:	1,531.1
Noise:	0.2		

Peak table for sample 1 : BC 1899 lig rxn

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	305	164.75	818.5		70.28
3	385	405.80	1,595.8		76.69
4	394	84.48	324.6		77.41
5	403	69.39	260.8		78.05
6	421	118.64	426.7		79.08
7	439	123.61	427.0		80.08
8	460	77.79	256.3		81.30
9	490	85.24	263.6		83.01
10	508	108.61	324.1		83.96
11	551	612.13	1,682.8		86.04
12	6,959	5.34	1.2		109.57
13	8,214	5.76	1.1		110.83
14	10,380	75.00	10.9	Upper Marker	113.00

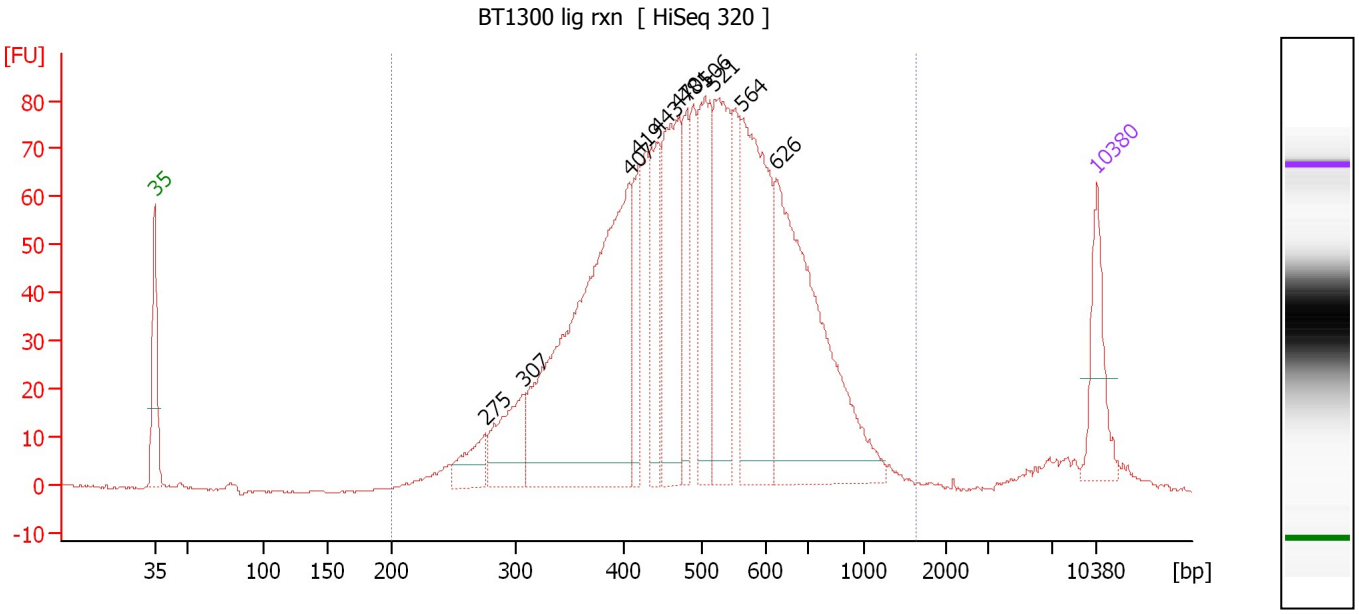
Region table for sample 1 : BC 1899 lig rxn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,561	499	1,531.1	8,067.5	2,361.60	96	30.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BT1300 lig rxn

Number of peaks found:	11	Corr. Area 1:	1,836.8
Noise:	0.3		

Peak table for sample 2 : BT1300 lig rxn

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	275	63.42	349.2		67.59
3	307	125.62	620.8		70.41
4	407	708.67	2,640.4		78.25
5	419	87.33	315.7		78.96
6	443	135.75	463.9		80.35
7	470	258.72	834.1		81.87
8	481	98.30	309.7		82.50
9	506	182.65	546.7		83.89
10	521	237.57	690.6		84.61
11	564	338.49	908.9		86.67
12	626	477.94	1,157.3		89.17
13	10,380	75.00	10.9	Upper Marker	113.00

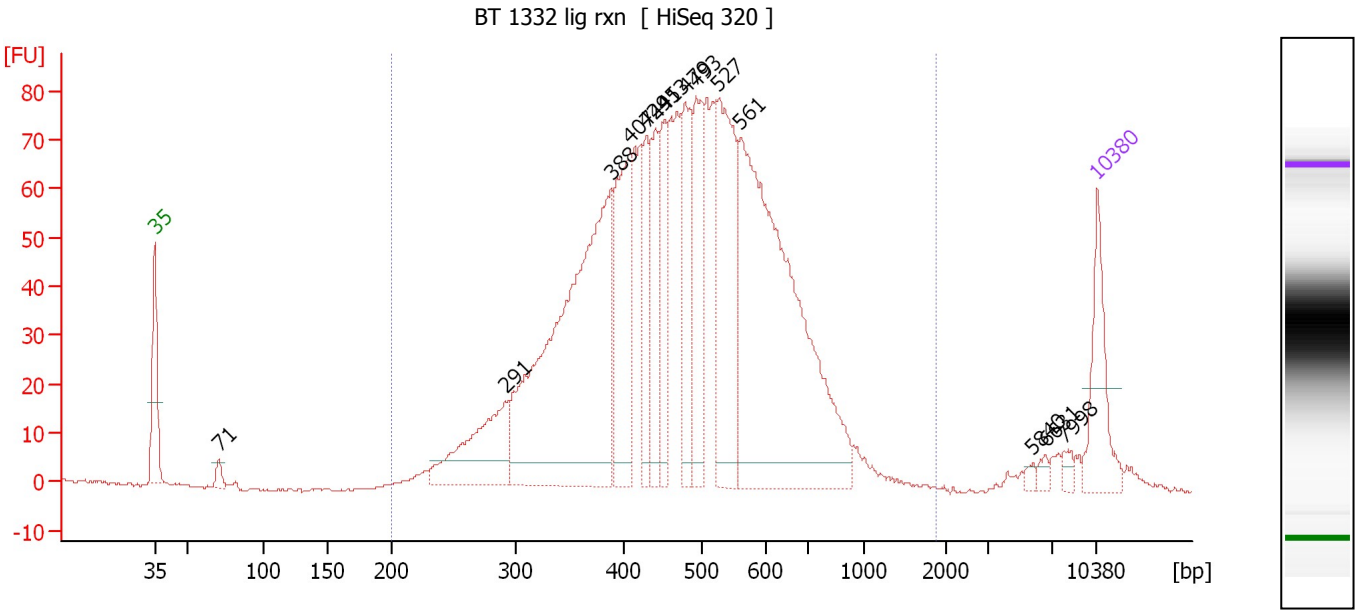
Region table for sample 2 : BT1300 lig rxn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,642	517	1,836.8	10,673.1	3,210.77	97	32.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BT 1332 lig rxn

Number of peaks found:	14	Corr. Area 1:	1,797.3
Noise:	0.3		

Peak table for sample 3 : BT 1332 lig rxn

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	71	15.55	334.1		47.77
3	291	166.49	865.5		69.09
4	388	649.79	2,536.3		76.92
5	407	201.92	751.6		78.27
6	429	90.96	321.2		79.53
7	441	99.12	340.7		80.20
8	453	100.79	337.4		80.88
9	479	139.73	441.7		82.41
10	493	133.11	408.7		83.22
11	527	245.31	705.3		84.88
12	561	654.34	1,767.7		86.50
13	5,840	5.72	1.5		108.23
14	6,631	7.24	1.7		109.18
15	7,998	9.19	1.7		110.62
16	10,380	75.00	10.9	Upper Marker	113.00

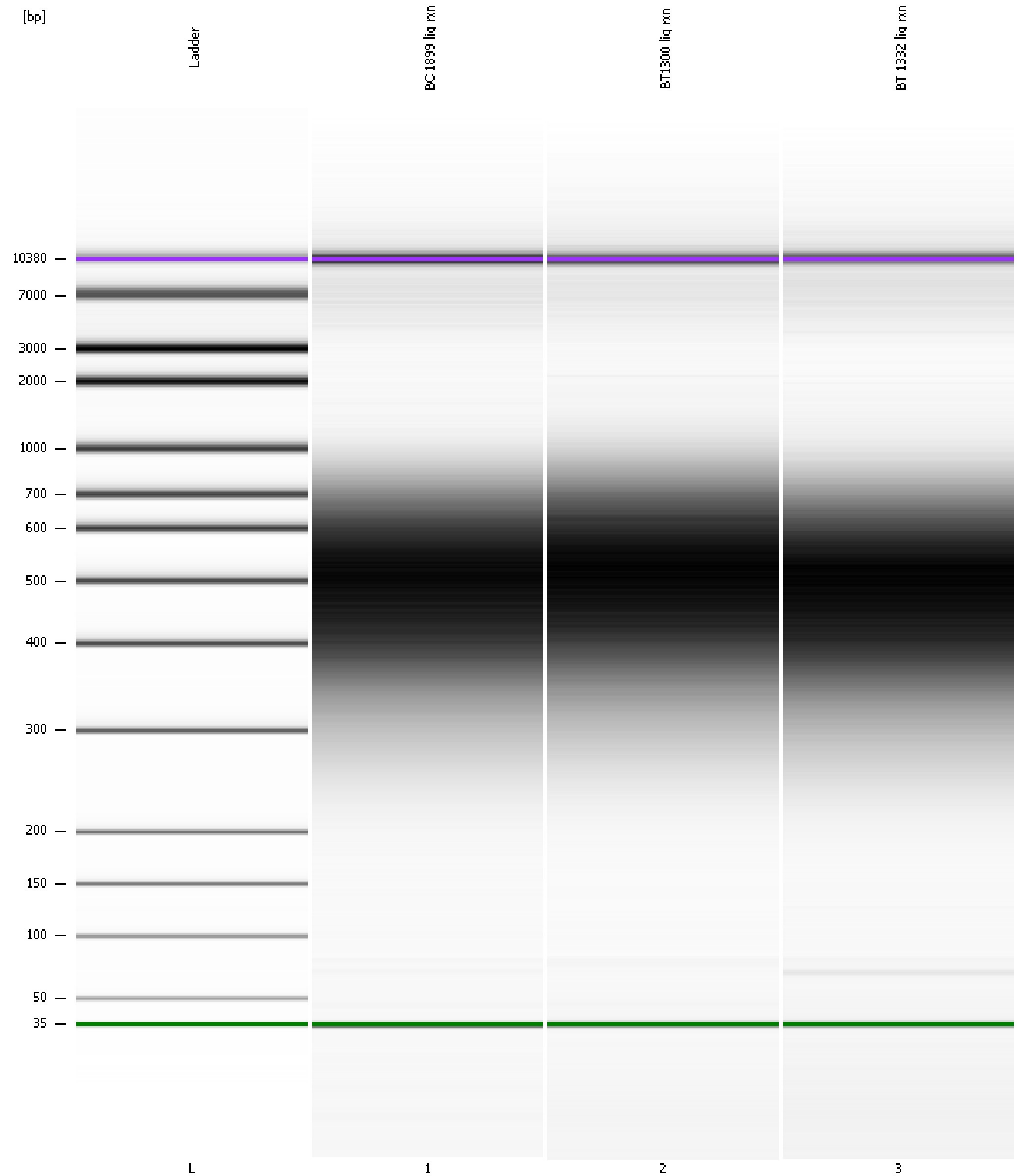
Region table for sample 3 : BT 1332 lig rxn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,879	494	1,797.3	10,584.9	3,061.60	96	32.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-12-14\2015-12-14_004_HiSeq320_LigRxn_2.xad

Created: 12/14/2015 3:45:11 PM
Modified: 12/14/2015 4:20:32 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		12/14/2015 4:15:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-14\2015-12-14_004.xad)		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/14/2015 3:45:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1