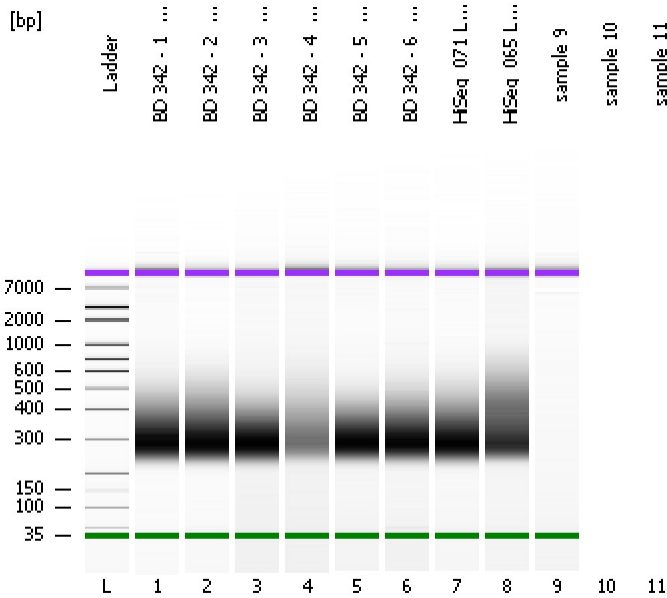


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
Modified: 3/22/2015 1:21:09 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

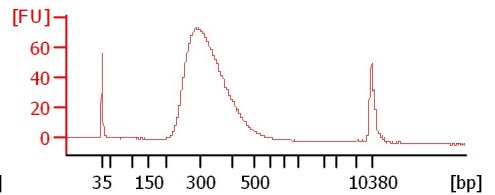
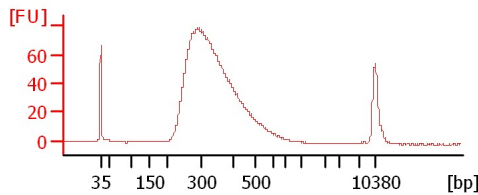
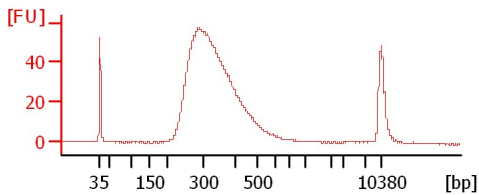
Chip Information:

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

BD 342 - 1 (1:5)

BD 342 - 2 (1:3)

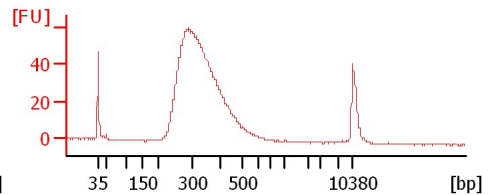
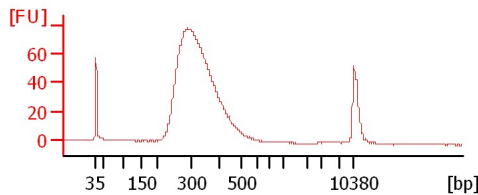
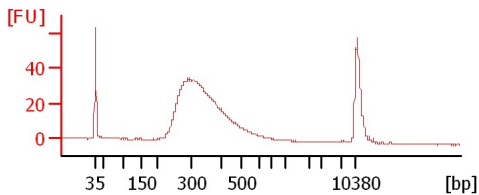
BD 342 - 3 (1:3)



BD 342 - 4 (1:5)

BD 342 - 5 (1:3)

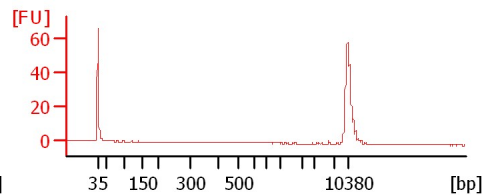
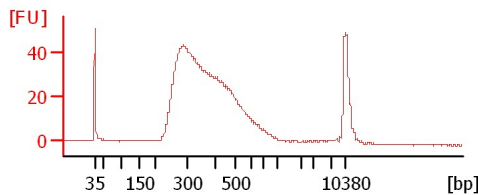
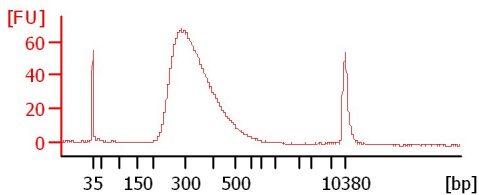
BD 342 - 6 (1:2)



HiSeq_071 Library Pool (1:3)

HiSeq_065 Library Pool (1:6)

sample 9



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
Modified: 3/22/2015 1:21:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BD 342 - 1 (1:5)		<input type="checkbox"/>	✓			
BD 342 - 2 (1:3)		<input type="checkbox"/>	✓			
BD 342 - 3 (1:3)		<input type="checkbox"/>	✓			
BD 342 - 4 (1:5)		<input type="checkbox"/>	✓			
BD 342 - 5 (1:3)		<input type="checkbox"/>	✓			
BD 342 - 6 (1:2)		<input type="checkbox"/>	✓			
HiSeq_071 Library Pool (1:3)		<input type="checkbox"/>	✓			
HiSeq_065 Library Pool (1:6)		<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:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
Modified: 3/22/2015 1:21:09 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

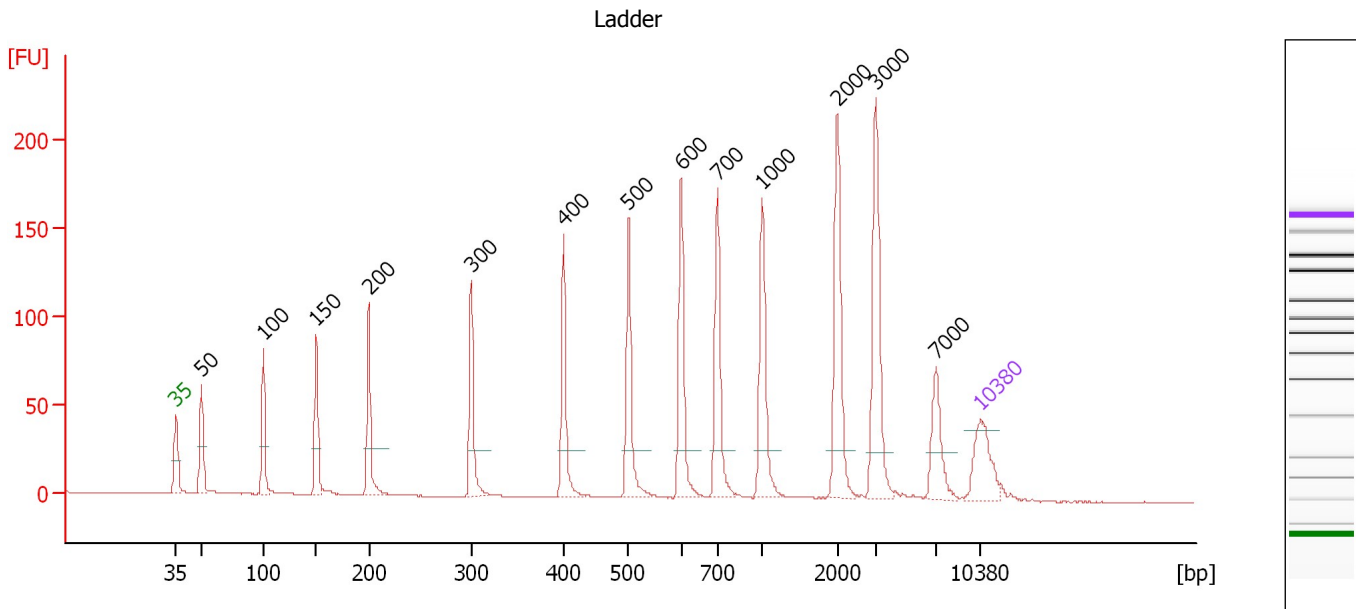
Ladder

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:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

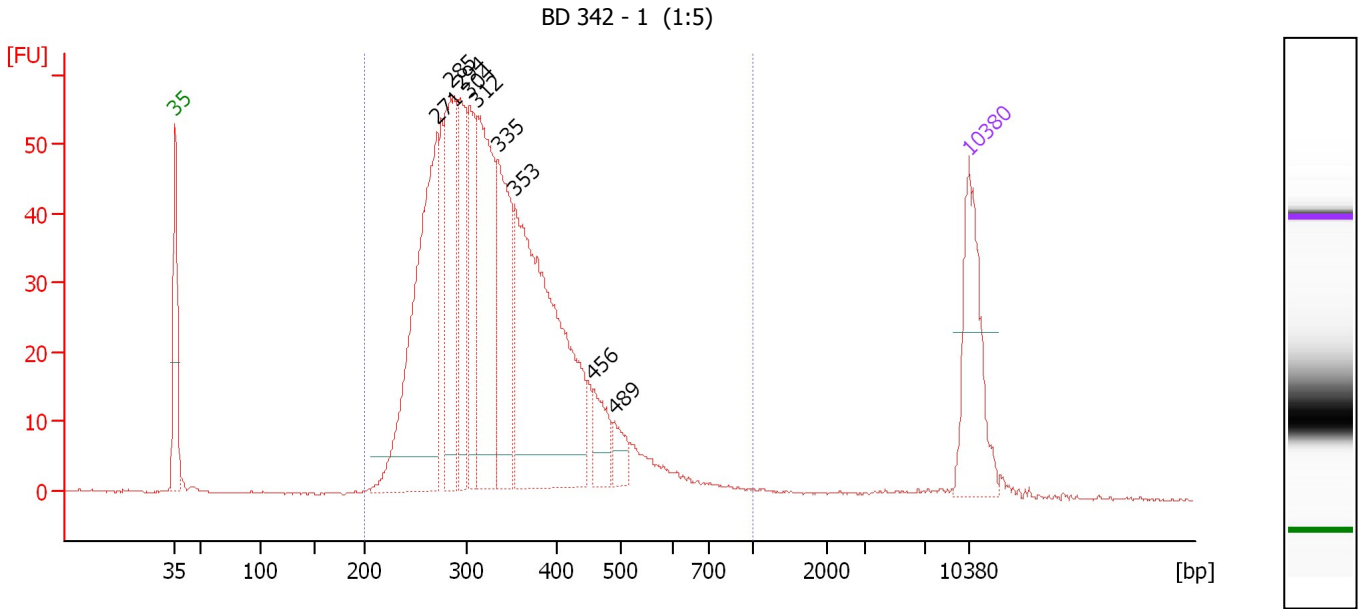
Peak table for Ladder

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	45.23
3	100	150.00	2,272.7	Ladder Peak	50.60
4	150	150.00	1,515.2	Ladder Peak	55.24
5	200	150.00	1,136.4	Ladder Peak	59.78
6	300	150.00	757.6	Ladder Peak	68.68
7	400	150.00	568.2	Ladder Peak	76.70
8	500	150.00	454.5	Ladder Peak	82.36
9	600	150.00	378.8	Ladder Peak	86.95
10	700	150.00	324.7	Ladder Peak	90.10
11	1,000	150.00	227.3	Ladder Peak	93.99
12	2,000	150.00	113.6	Ladder Peak	100.53
13	3,000	150.00	75.8	Ladder Peak	103.87
14	7,000	150.00	32.5	Ladder Peak	109.06
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BD 342 - 1 (1:5)

Number of peaks found: 9 Corr. Area 1: 1,077.5
 Noise: 0.1

Peak table for sample 1 : BD 342 - 1 (1:5)

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	271	303.83	1,698.9		66.10
3	285	158.43	843.1		67.32
4	294	111.76	576.6		68.12
5	304	100.58	502.0		68.97
6	312	189.35	918.5		69.67
7	335	133.09	602.6		71.46
8	353	364.79	1,566.5		72.92
9	456	34.34	114.1		79.88
10	489	19.76	61.3		81.72
11	10,380	75.00	10.9	Upper Marker	113.00

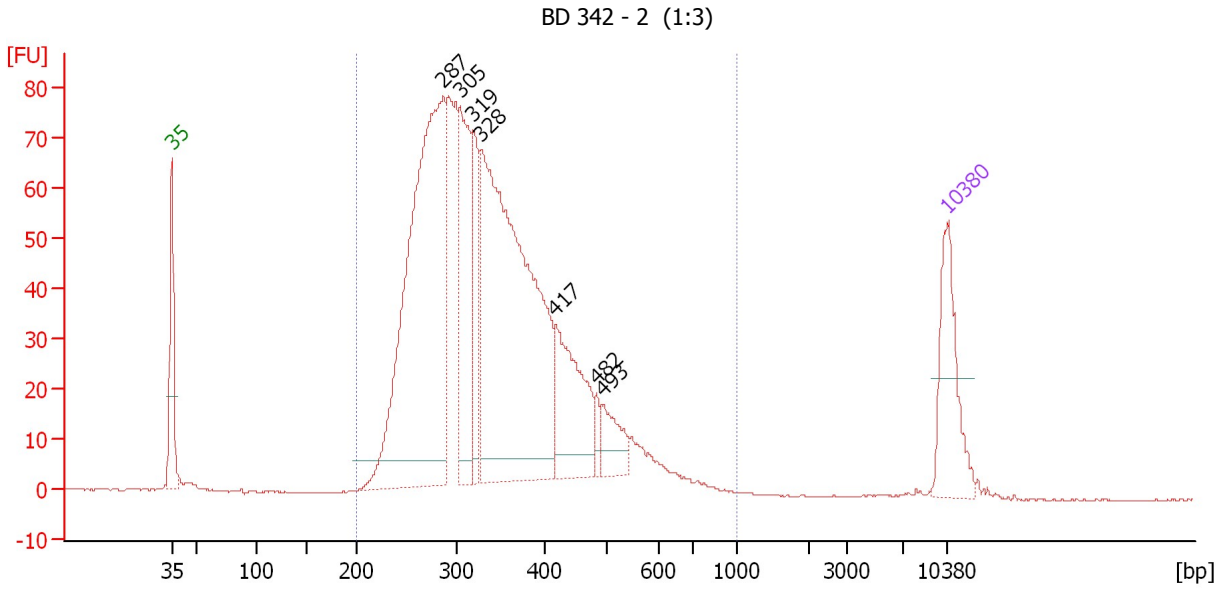
Region table for sample 1 : BD 342 - 1 (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	343	1,000	1,077.5	7,551.4	98	25.5	1,595.96	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BD 342 - 2 (1:3)

Number of peaks found: 7 Corr. Area 1: 1,534.6
 Noise: 0.1

Peak table for sample 2 : BD 342 - 2 (1:3)

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	287	631.12	3,330.4		67.54
3	305	176.25	875.8		69.08
4	319	83.94	399.1		70.18
5	328	619.58	2,859.4		70.95
6	417	133.91	487.1		77.64
7	482	14.50	45.6		81.34
8	493	41.17	126.5		81.97
9	10,380	75.00	10.9	Upper Marker	113.00

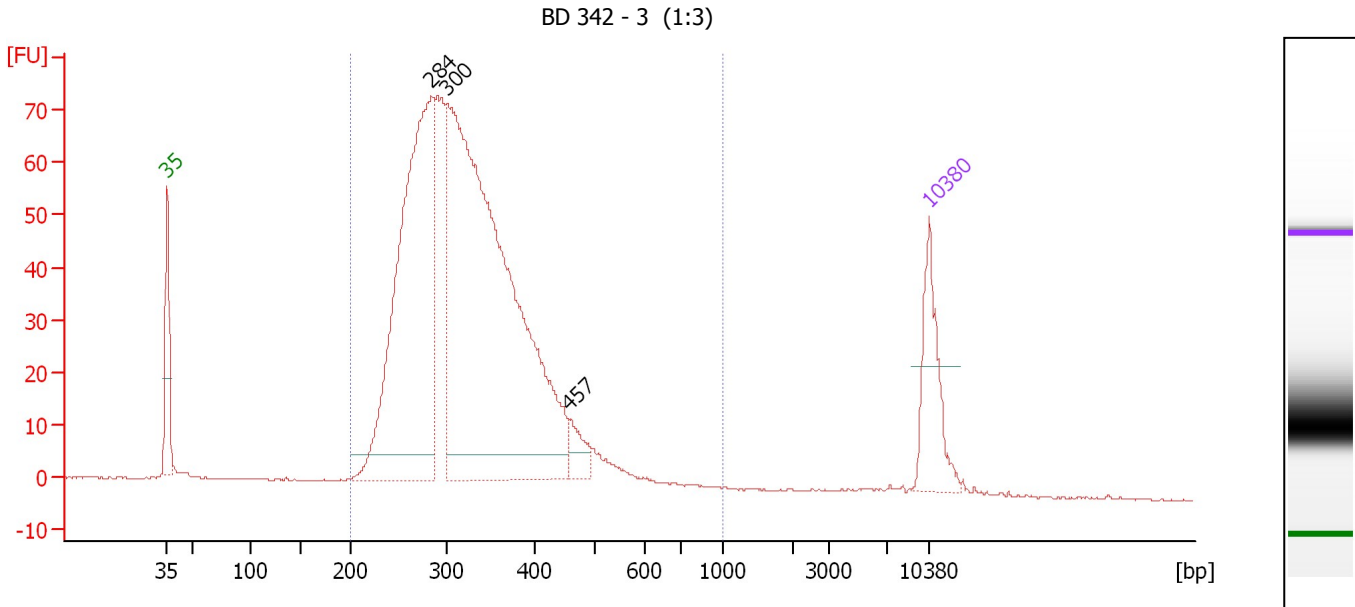
Region table for sample 2 : BD 342 - 2 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	347	1,000	1,534.6	9,446.3	99	25.9	2,008.95	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BD 342 - 3 (1:3)

Number of peaks found: 3 Corr. Area 1: 1,285.6
 Noise: 0.1

Peak table for sample 3 : BD 342 - 3 (1:3)

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	284	673.98	3,597.2		67.25
3	300	1,109.74	5,596.5		68.72
4	457	31.67	104.9		79.93
5	10,380	75.00	10.9	Upper Marker	113.00

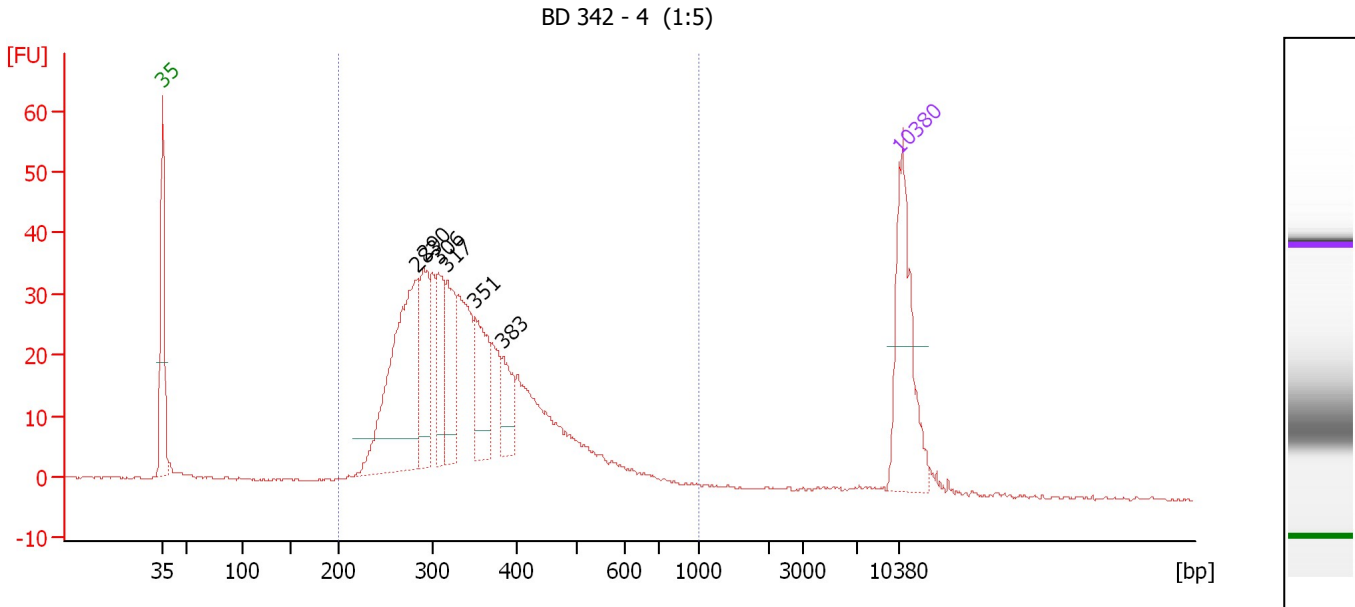
Region table for sample 3 : BD 342 - 3 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	329	1,000	1,285.6	9,789.7	98	22.6	2,014.14	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BD 342 - 4 (1:5)

Number of peaks found: 6 Corr. Area 1: 662.8
 Noise: 0.2

Peak table for sample 4 : BD 342 - 4 (1:5)

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	283	189.90	1,015.0		67.21
3	290	68.74	358.8		67.82
4	306	52.15	258.0		69.19
5	317	58.37	279.0		70.05
6	351	56.63	244.8		72.73
7	383	30.27	119.8		75.32
8	10,380	75.00	10.9	Upper Marker	113.00

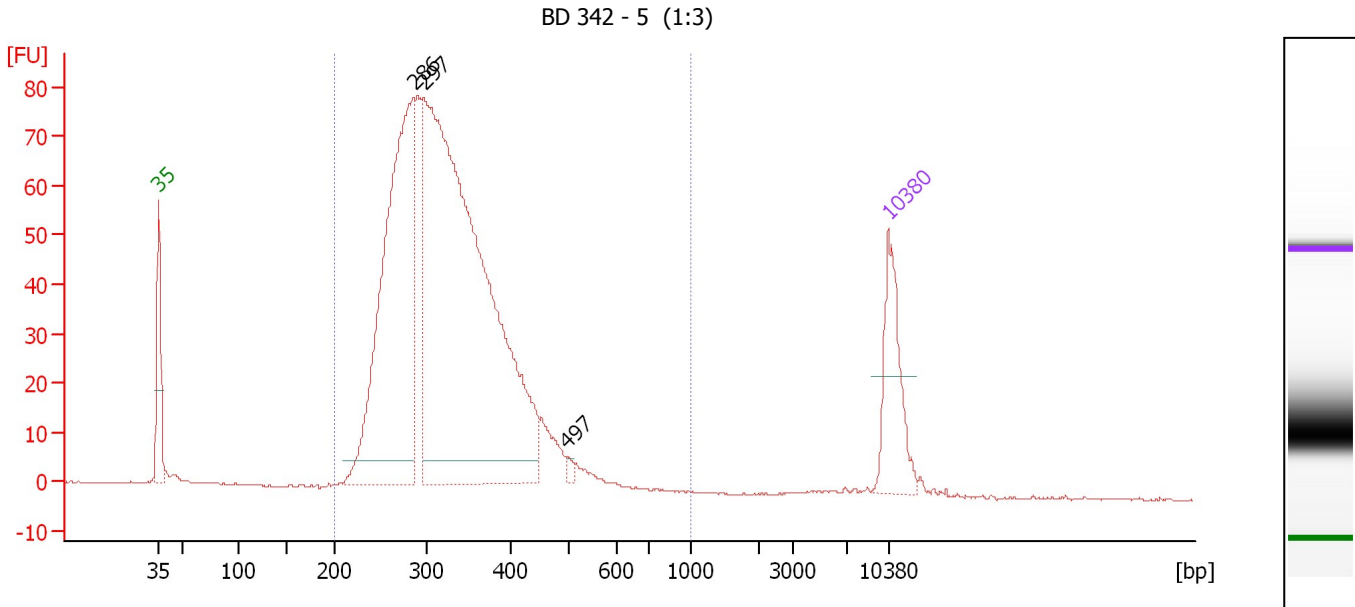
Region table for sample 4 : BD 342 - 4 (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	354	1,000	662.8	3,951.2	97	26.8	854.15	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BD 342 - 5 (1:3)

Number of peaks found: 3 Corr. Area 1: 1,305.5
 Noise: 0.2

Peak table for sample 5 : BD 342 - 5 (1:3)

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	286	572.05	3,027.8		67.46
3	297	1,112.18	5,670.3		68.43
4	497	5.22	15.9		82.20
5	10,380	75.00	10.9	Upper Marker	113.00

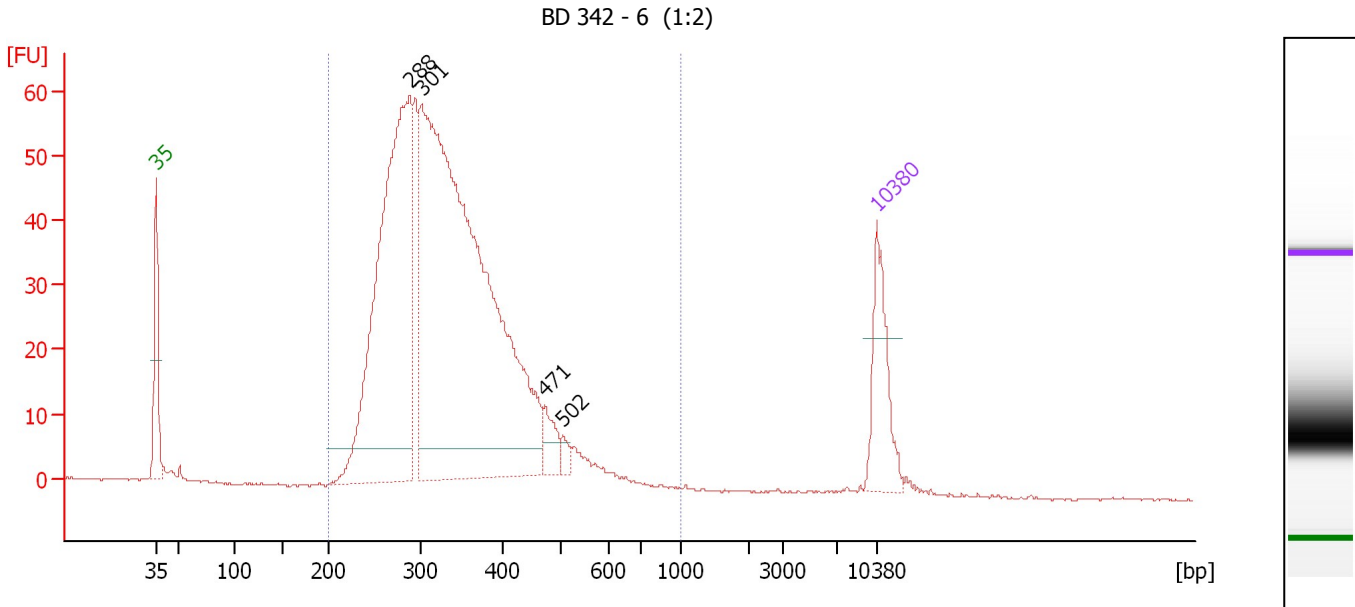
Region table for sample 5 : BD 342 - 5 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	329	1,000	1,305.5	8,741.1	98	20.2	1,809.30	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BD 342 - 6 (1:2)

Number of peaks found: 4 Corr. Area 1: 1,049.1
 Noise: 0.1

Peak table for sample 6 : BD 342 - 6 (1:2)

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	288	686.69	3,608.3		67.64
3	301	1,244.07	6,256.7		68.78
4	471	31.42	101.0		80.74
5	502	11.77	35.5		82.45
6	10,380	75.00	10.9	Upper Marker	113.00

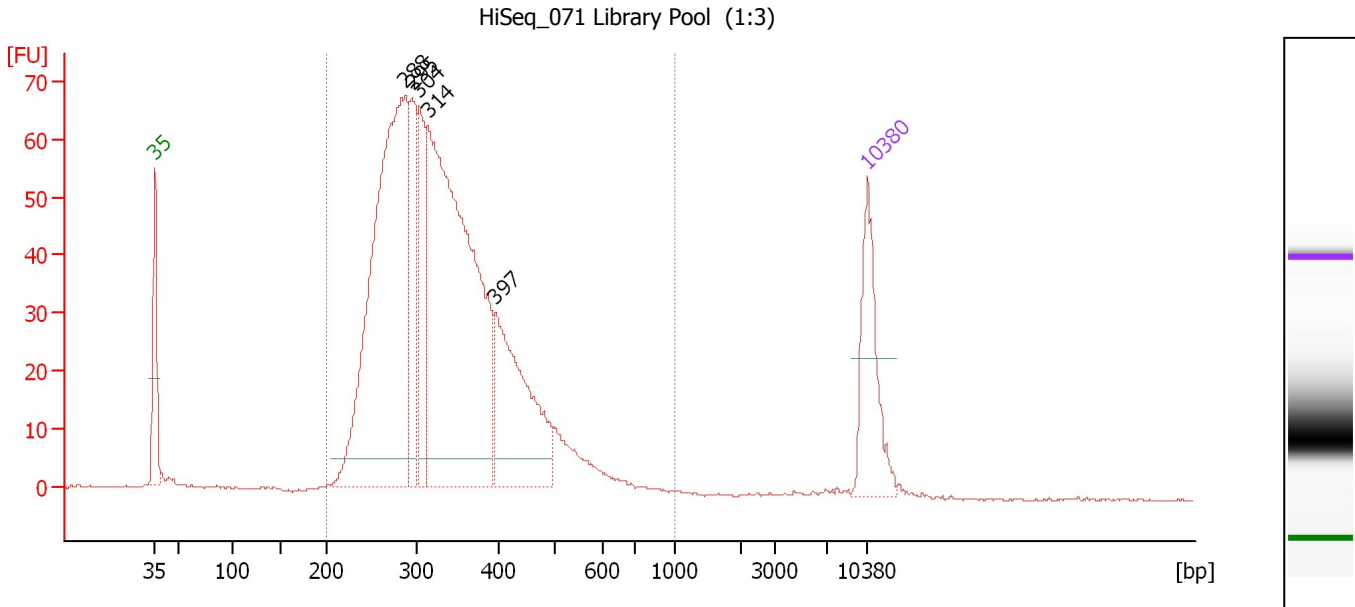
Region table for sample 6 : BD 342 - 6 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	338	1,000	1,049.1	9,873.1	99	23.1	2,077.74	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq_071 Library Pool (1:3)

Number of peaks found: 5 Corr. Area 1: 1,226.1
 Noise: 0.2

Peak table for sample 7 : HiSeq_071 Library Pool (1:3)

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	288	591.33	3,115.9		67.57
3	295	119.68	614.3		68.25
4	304	112.62	561.6		68.99
5	314	618.03	2,979.7		69.83
6	397	185.97	710.5		76.43
7	10,380	75.00	10.9	Upper Marker	113.00

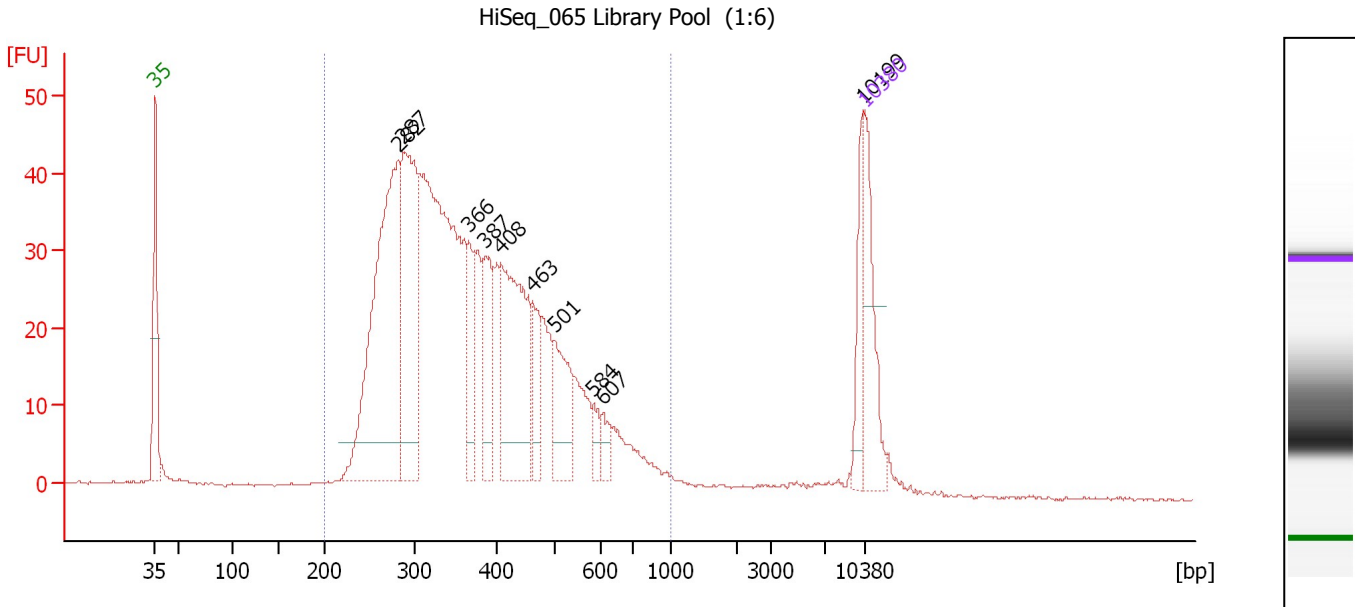
Region table for sample 7 : HiSeq_071 Library Pool (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	340	1,000	1,226.1	8,231.7	98	24.6	1,727.26	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq_065 Library Pool (1:6)

Number of peaks found: 10 Corr. Area 1: 967.5
 Noise: 0.2

Peak table for sample 8 : HiSeq_065 Library Pool (1:6)

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	282	451.09	2,426.3		67.05
3	287	280.12	1,478.7		67.53
4	366	62.97	260.5		74.00
5	387	82.94	325.0		75.63
6	408	219.02	813.2		77.16
7	463	50.26	164.5		80.26
8	501	81.29	245.6		82.42
9	584	17.85	46.3		86.21
10	607	17.83	44.5		87.16
11	10,199	46.72	6.9		112.79
12	10,380	75.00	10.9	Upper Marker	113.00

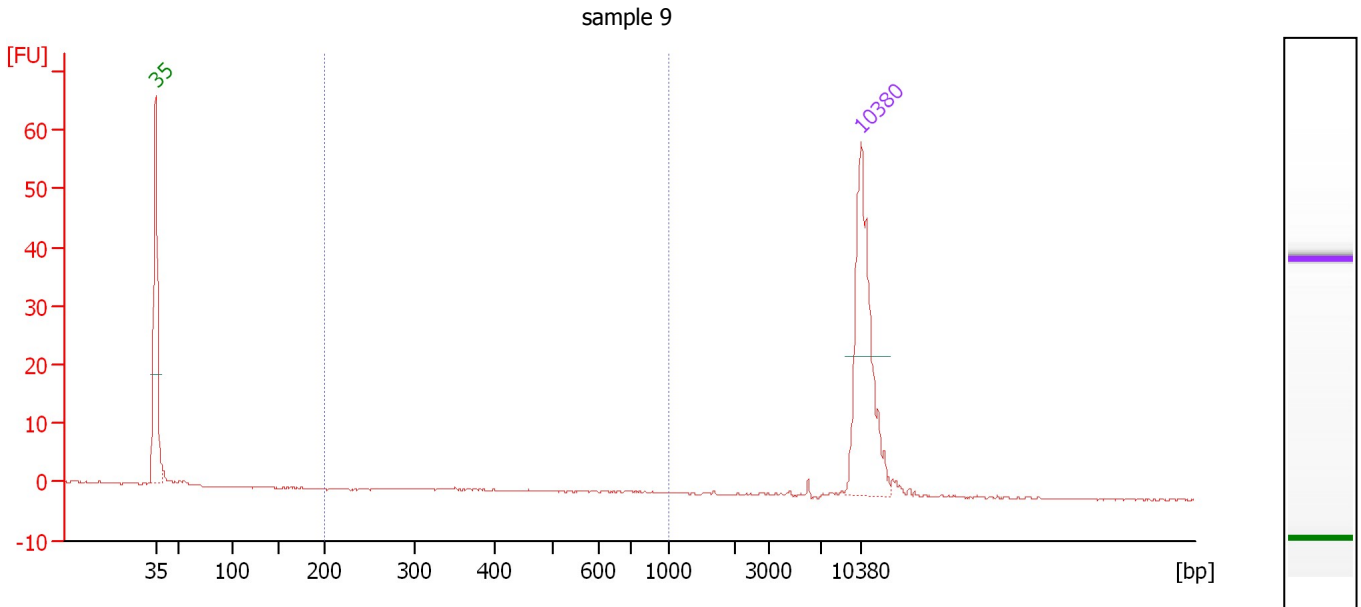
Region table for sample 8 : HiSeq_065 Library Pool (1:6)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	385	1,000	967.5	9,760.8	94	30.8	2,224.45	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

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	10,380	75.00	10.9	Upper Marker	113.00

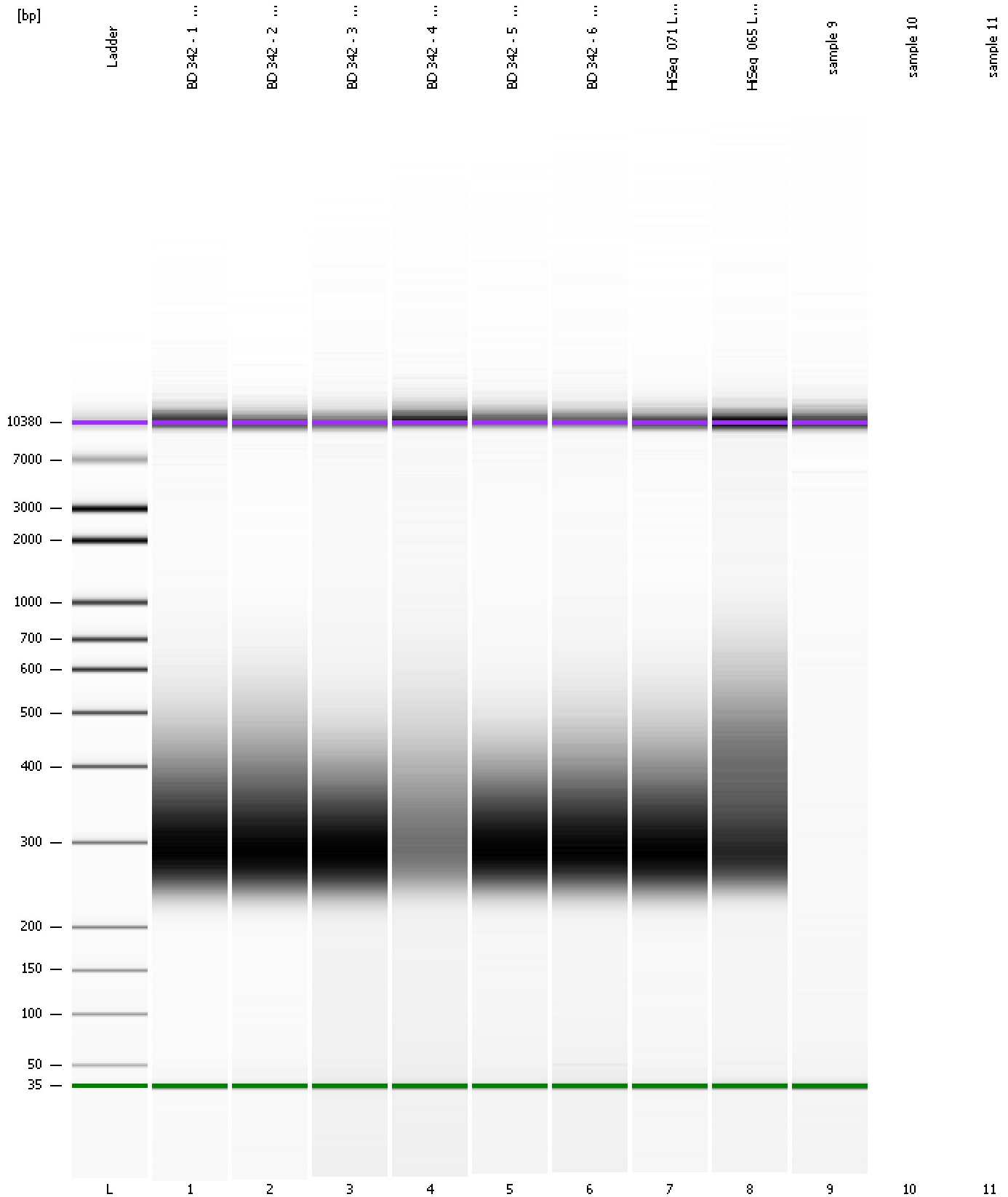
Region table for sample 9 : sample 9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	572	1,000	0.0	0.0	0	18.0	0.01	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
Modified: 3/22/2015 1:21:09 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
Modified: 3/22/2015 1:21:09 PM

Invalid Samples

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\2015-03-22\2015-03-22_001.xad

Created: 3/22/2015 12:45:26 PM
 Modified: 3/22/2015 1:21:09 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		3/22/2015 1:21:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-22\2015-03-22_001.xad)		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/22/2015 12:45:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1