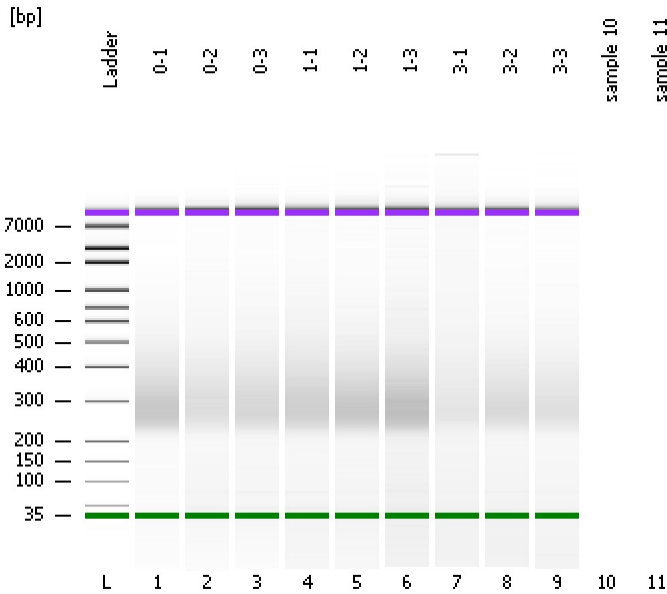


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
Modified: 10/2/2014 2:04:34 PM

Electrophoresis File Run Summary



Instrument Information:

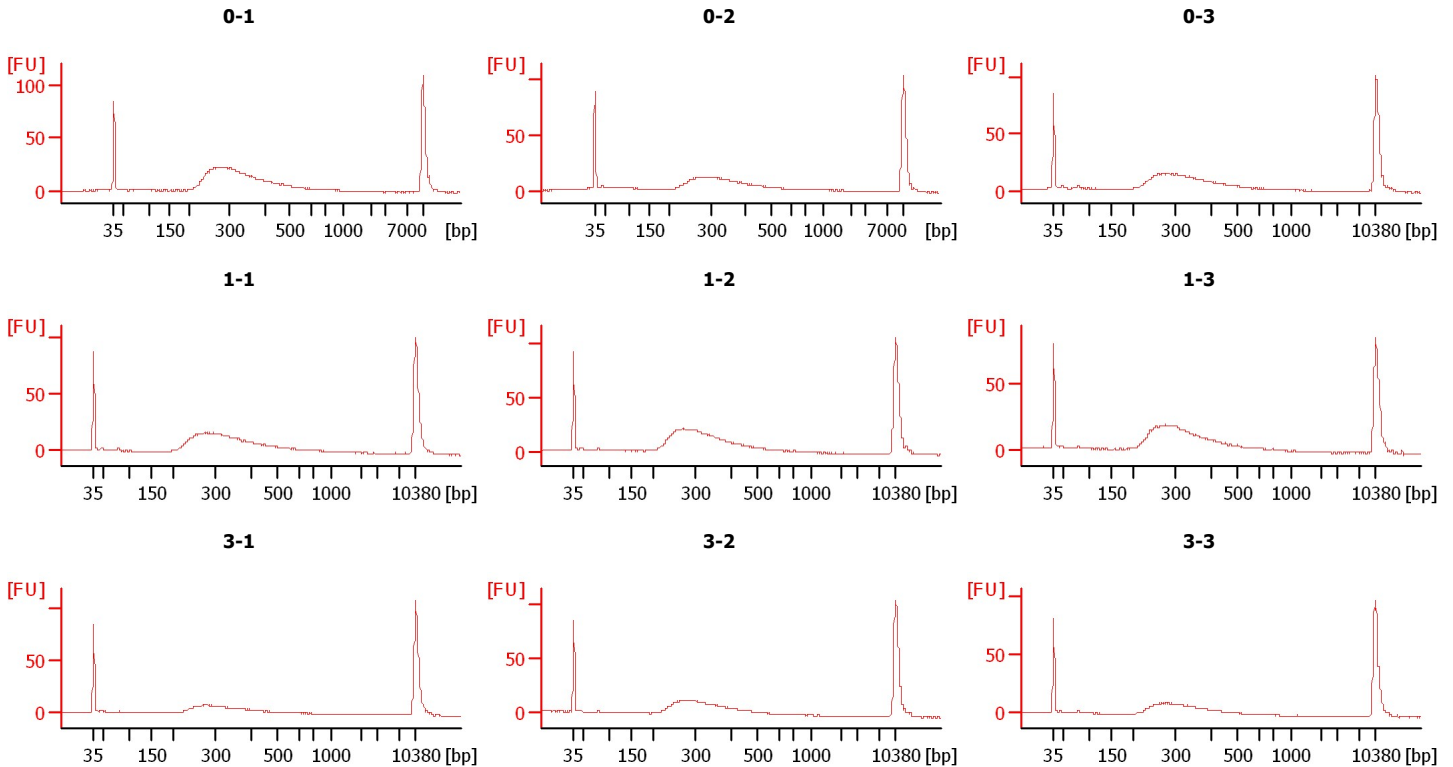
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
0-1		<input type="checkbox"/>	✓			
0-2		<input type="checkbox"/>	✓			
0-3		<input type="checkbox"/>	✓			
1-1		<input type="checkbox"/>	✓			
1-2		<input type="checkbox"/>	✓			
1-3		<input type="checkbox"/>	✓			
3-1		<input type="checkbox"/>	✓			
3-2		<input type="checkbox"/>	✓			
3-3		<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\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
Modified: 10/2/2014 2:04:34 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

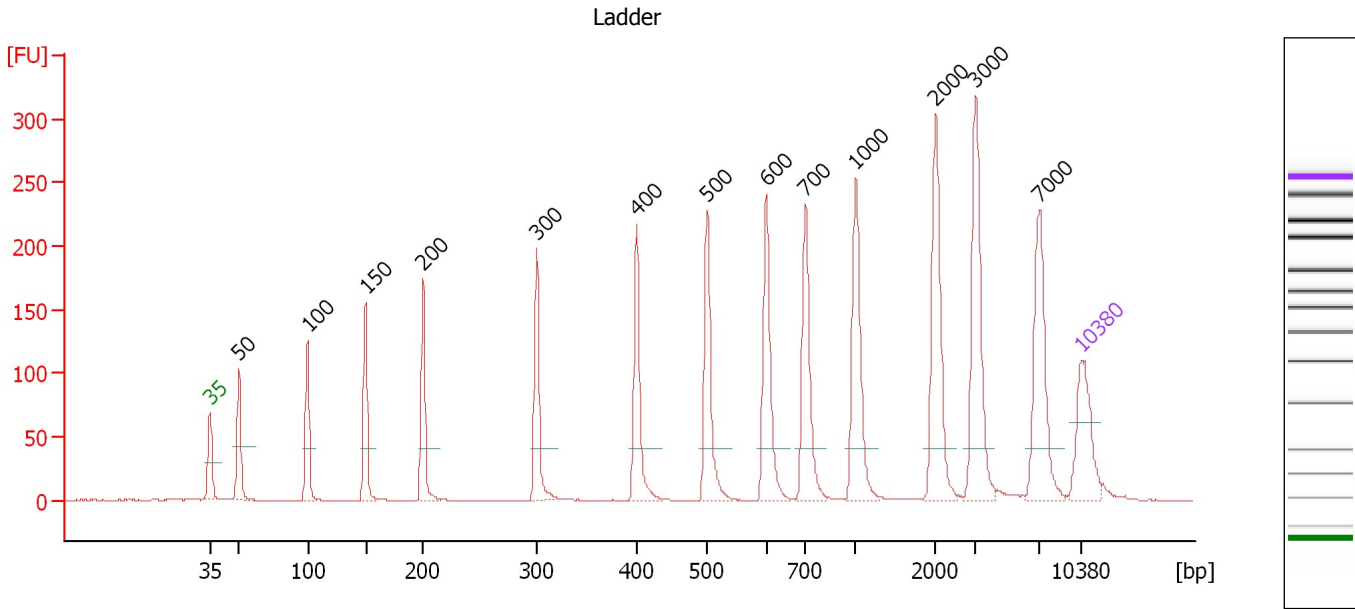
Ladder

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:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

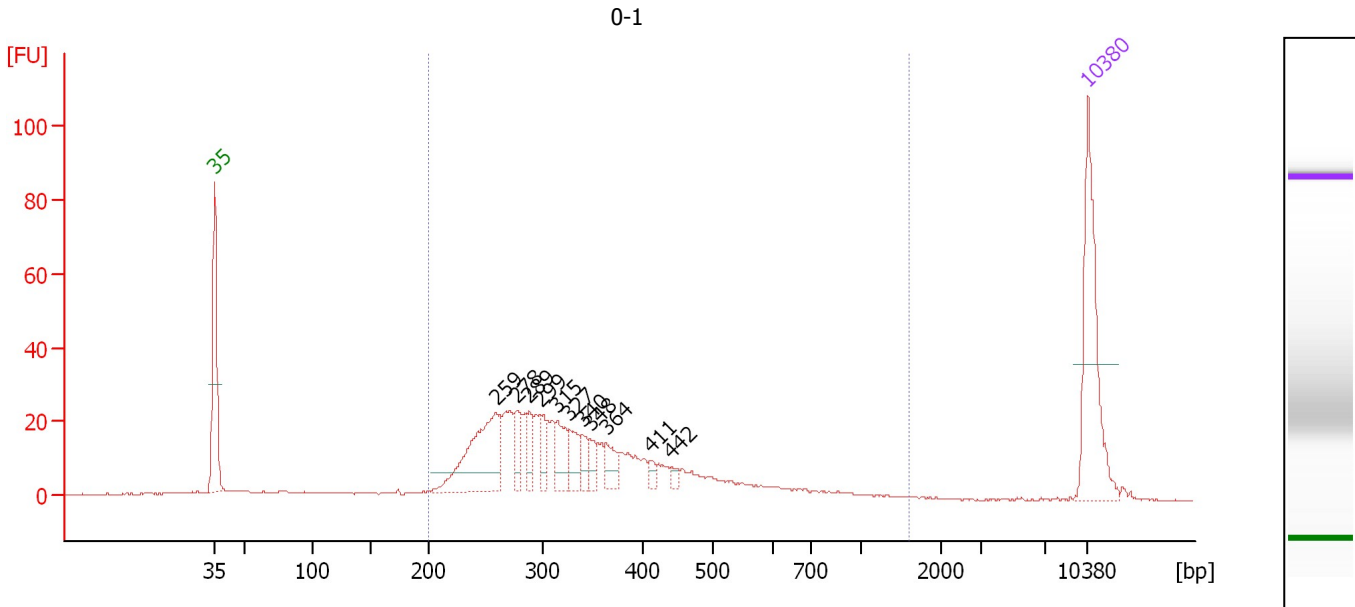
Peak table for Ladder

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\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 0-1

Number of peaks found: 11 Corr. Area 1: 515.4
 Noise: 0.2

Peak table for sample 1 : 0-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	108.76	635.8	
3	278	22.17	120.7	
4	289	19.72	103.5	
5	299	18.20	92.2	
6	315	29.49	141.9	
7	327	21.51	99.6	
8	340	13.68	61.0	
9	348	11.54	50.2	
10	364	18.70	77.9	
11	411	6.03	22.2	
12	442	4.55	15.6	
13	10,380	75.00	10.9	Upper Marker

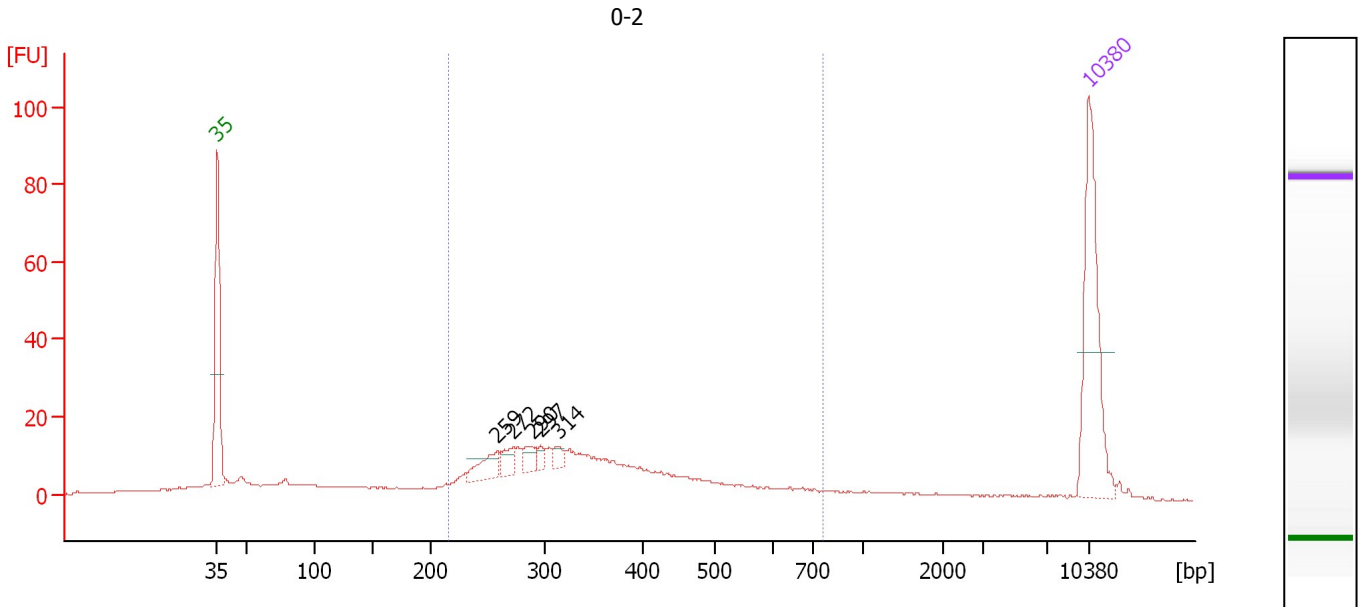
Region table for sample 1 : 0-1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	359	1,583	515.4	89	40.6	537.70	2,584.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 0-2

Number of peaks found: 5 Corr. Area 1: 296.4
 Noise: 0.2

Peak table for sample 2 : 0-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	21.27	124.5	
3	272	12.08	67.2	
4	290	11.39	59.5	
5	297	5.91	30.2	
6	314	6.29	30.3	
7	10,380	75.00	10.9	Upper Marker

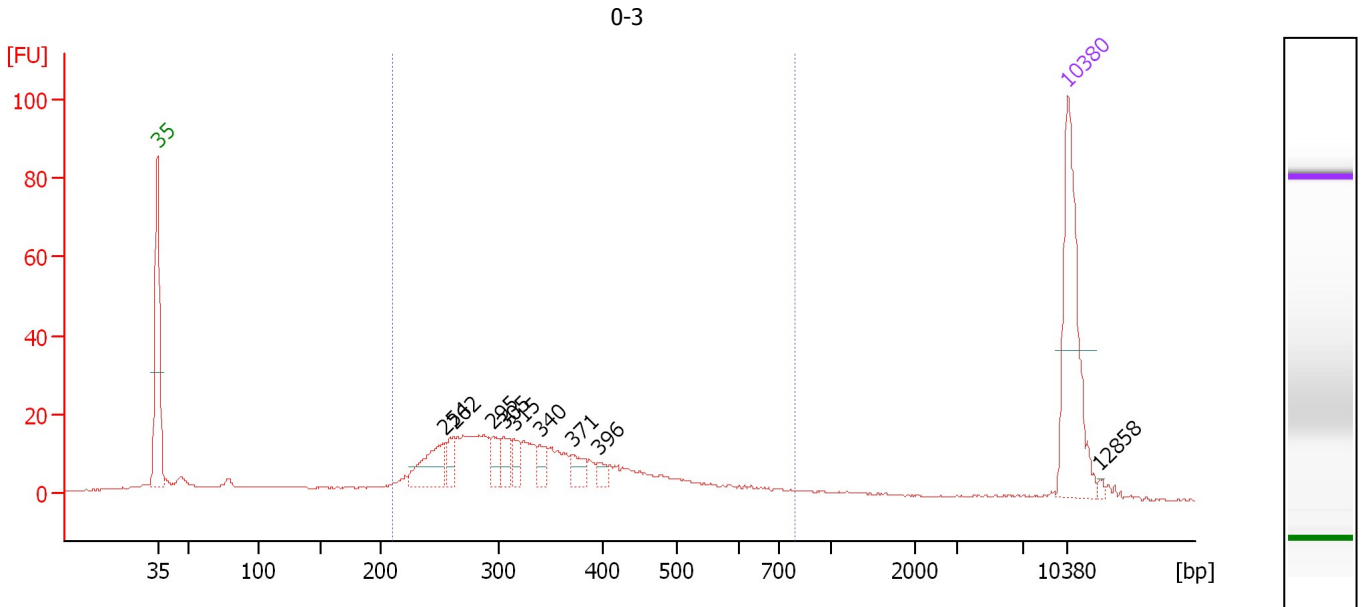
Region table for sample 2 : 0-2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
215	356	759	296.4	69	29.3	292.44	1,375.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 0-3

Number of peaks found: 9 Corr. Area 1: 356.2
 Noise: 0.1

Peak table for sample 3 : 0-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	37.14	221.5	
3	262	13.42	77.5	
4	295	15.21	78.1	
5	305	14.64	72.7	
6	315	12.24	59.0	
7	340	10.66	47.6	
8	371	13.20	54.0	
9	396	5.99	22.9	
10	10,380	75.00	10.9	Upper Marker
11	12,858	0.00	0.0	

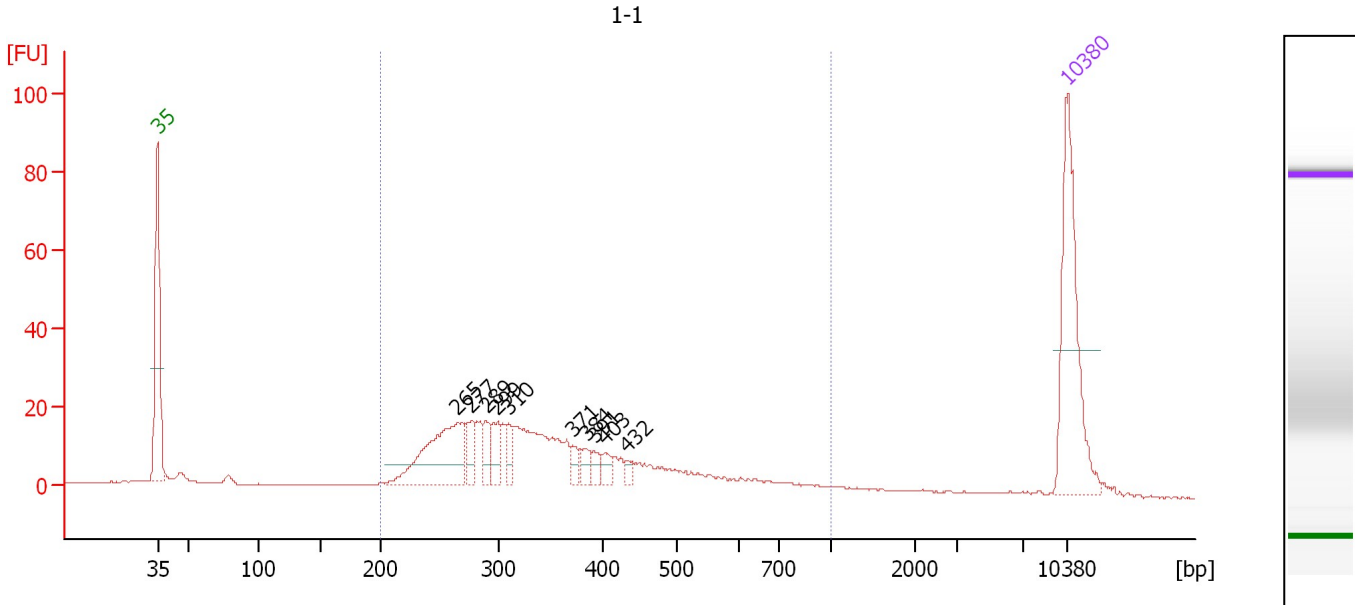
Region table for sample 3 : 0-3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
211	353	784	356.2	74	29.6	355.43	1,688.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1-1

Number of peaks found: 10 Corr. Area 1: 421.1
 Noise: 0.2

Peak table for sample 4 : 1-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	84.16	481.5	
3	277	17.42	95.3	
4	289	13.68	71.7	
5	299	17.09	86.7	
6	310	12.42	60.8	
7	371	7.29	29.8	
8	384	8.52	33.6	
9	391	6.75	26.1	
10	403	7.79	29.3	
11	432	4.78	16.8	
12	10,380	75.00	10.9	Upper Marker

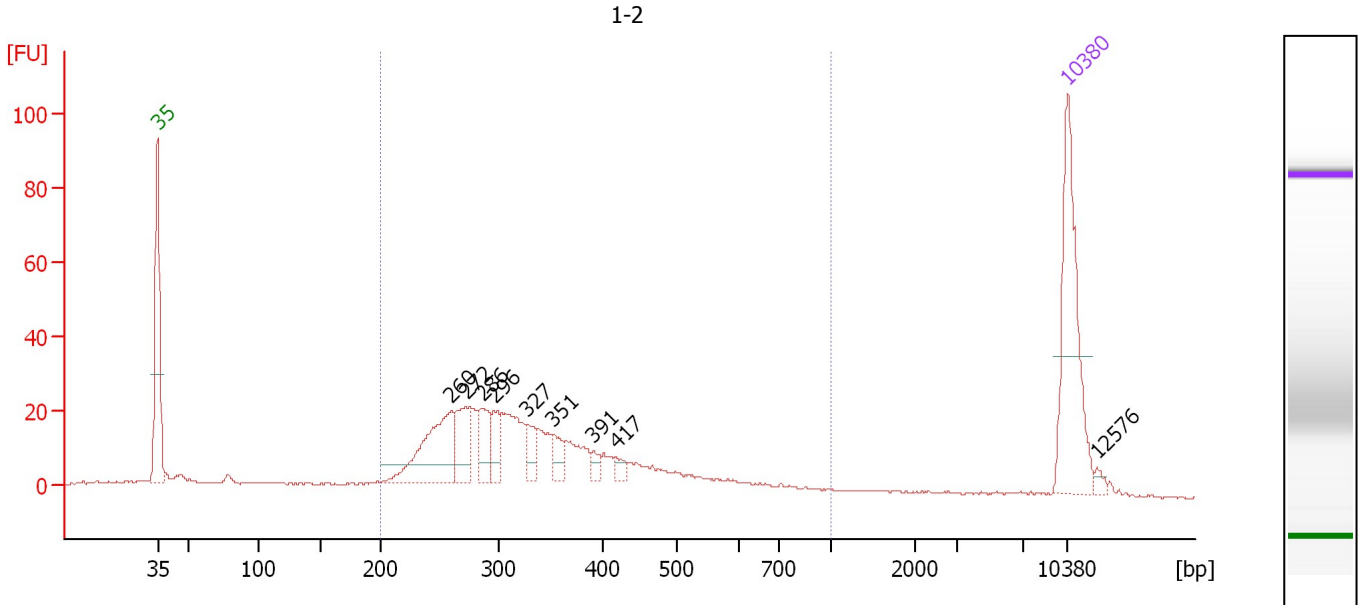
Region table for sample 4 : 1-1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	370	1,000	421.1	84	35.9	392.45	1,833.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1-2

Number of peaks found: 9 Corr. Area 1: 487.3
 Noise: 0.1

Peak table for sample 5 : 1-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	79.35	462.3	
3	272	33.15	184.5	
4	286	27.64	146.4	
5	296	20.21	103.5	
6	327	14.74	68.2	
7	351	13.78	59.4	
8	391	6.07	23.5	
9	417	6.36	23.1	
10	10,380	75.00	10.9	Upper Marker
11	12,576	0.00	0.0	

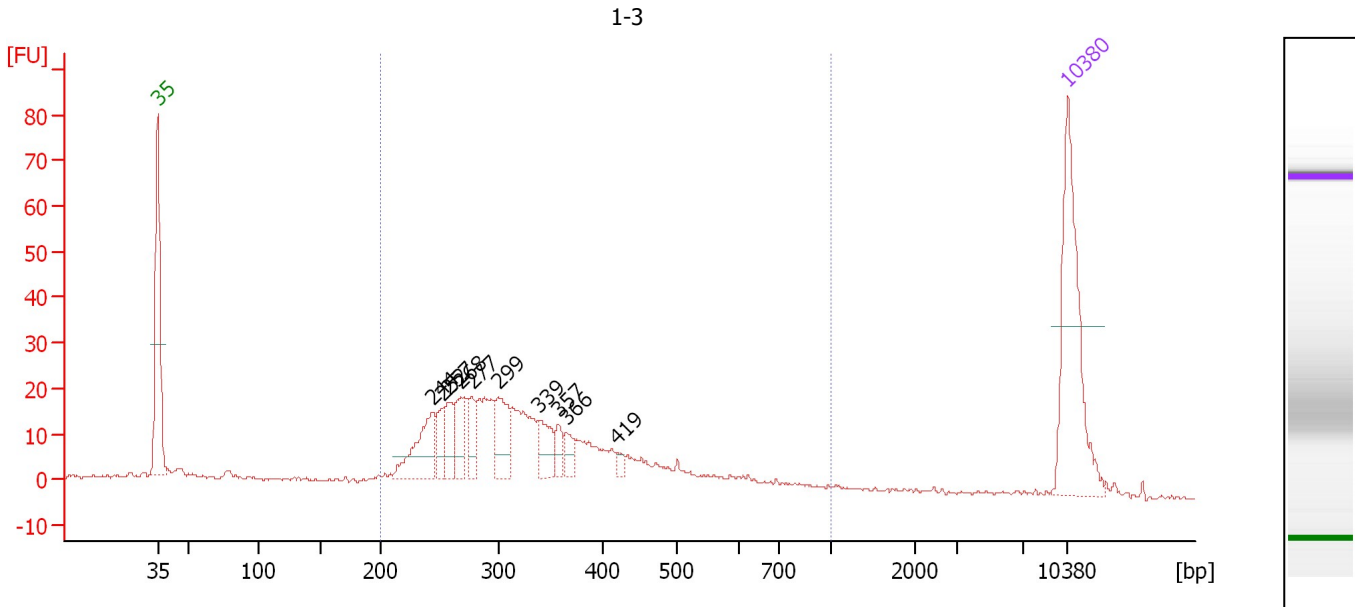
Region table for sample 5 : 1-2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	353	1,000	487.3	81	33.8	442.75	2,129.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1-3

Number of peaks found: 10 Corr. Area 1: 430.2
 Noise: 0.3

Peak table for sample 6 : 1-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	46.05	285.9	
3	252	16.88	101.5	
4	257	23.46	138.1	
5	268	21.42	121.0	
6	277	17.20	94.0	
7	299	33.33	168.7	
8	339	21.61	96.7	
9	357	9.85	41.8	
10	366	10.12	42.0	
11	419	3.94	14.2	
12	10,380	75.00	10.9	Upper Marker

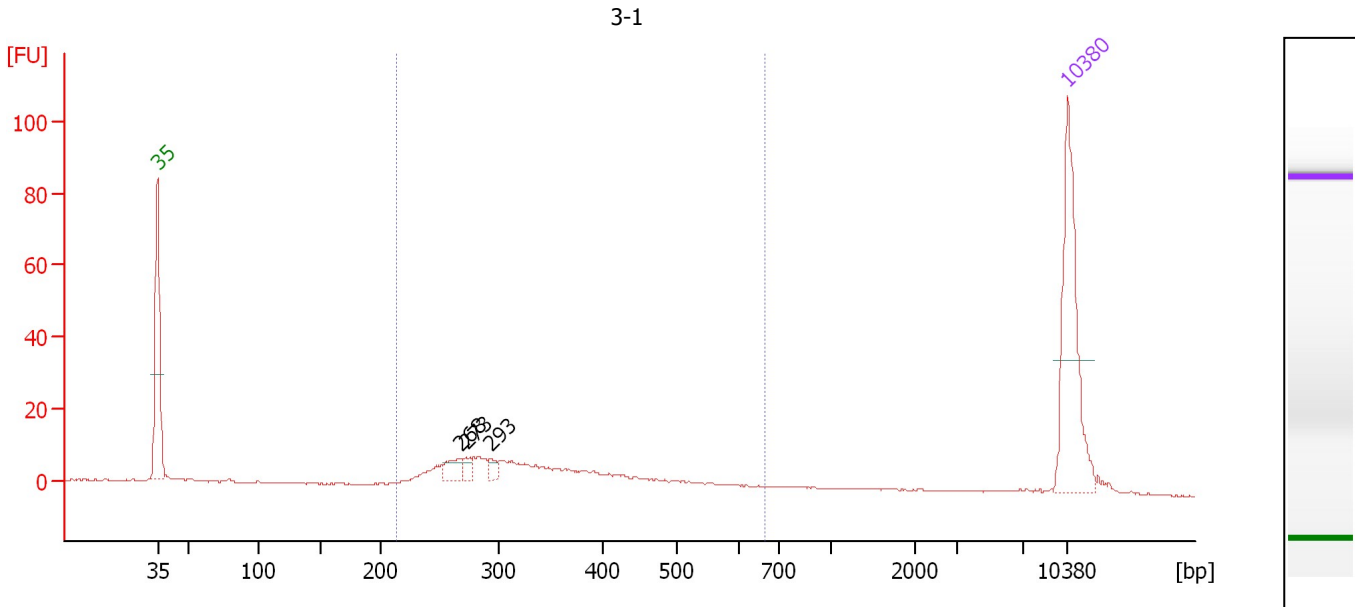
Region table for sample 6 : 1-3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	350	1,000	430.2	83	33.8	442.70	2,141.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 3-1

Number of peaks found: 3 Corr. Area 1: 182.9
 Noise: 0.2

Peak table for sample 7 : 3-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	14.06	79.5	
3	273	7.72	42.9	
4	293	6.41	33.1	
5	10,380	75.00	10.9	Upper Marker

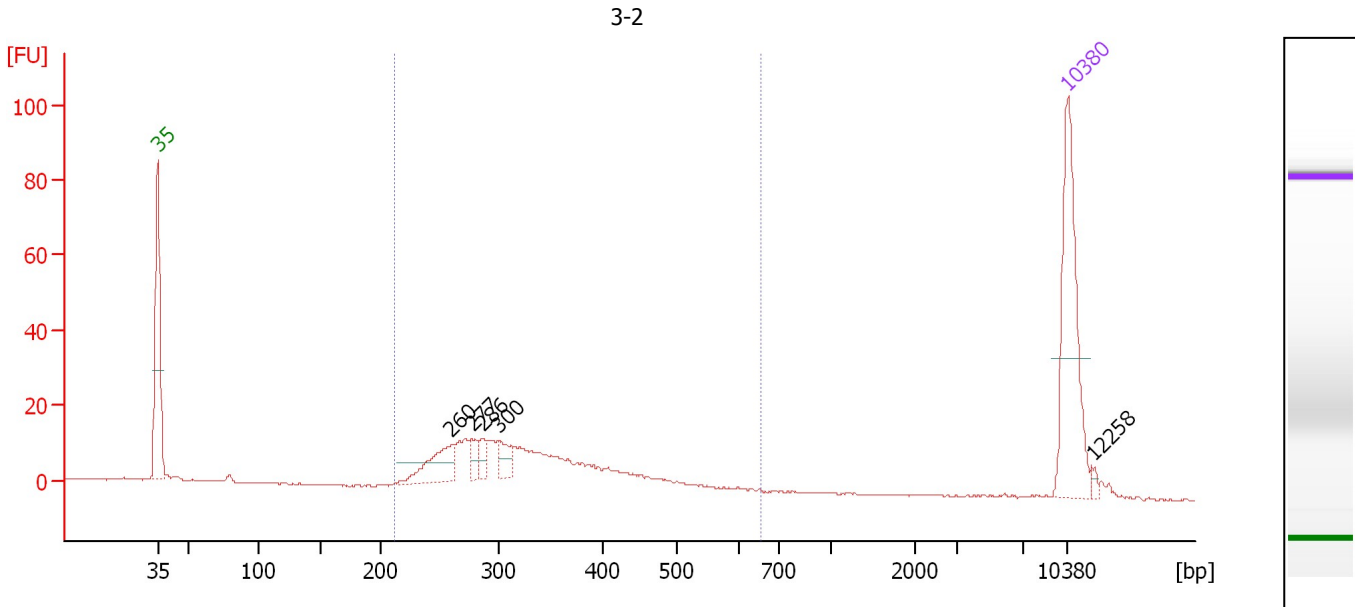
Region table for sample 7 : 3-1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
213	356	664	182.9	66	28.0	175.51	822.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3-2

Number of peaks found: 5 Corr. Area 1: 238.9
 Noise: 0.1

Peak table for sample 8 : 3-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	36.10	210.3	
3	277	10.46	57.2	
4	286	9.47	50.2	
5	300	15.46	78.1	
6	10,380	75.00	10.9	Upper Marker
7	12,258	0.00	0.0	

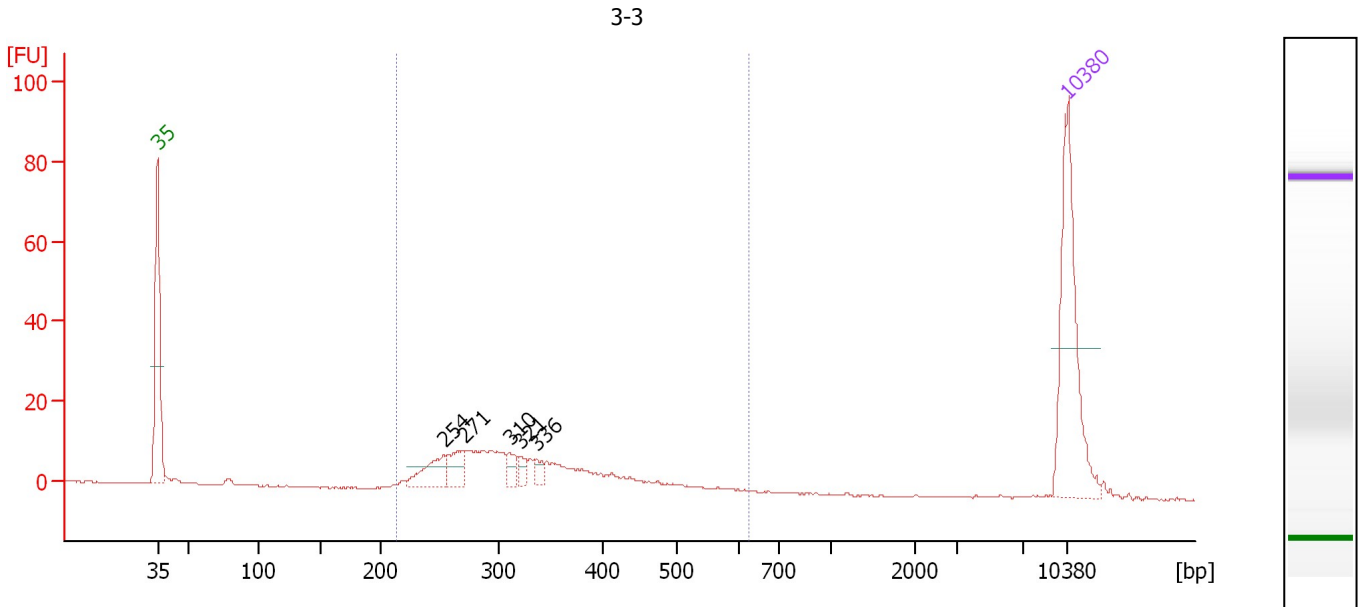
Region table for sample 8 : 3-2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
212	333	654	238.9	88	23.1	227.28	1,103.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3-3

Number of peaks found: 5 Corr. Area 1: 186.6
 Noise: 0.2

Peak table for sample 9 : 3-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	25.50	152.4	
3	271	18.71	104.7	
4	310	8.94	43.6	
5	321	6.50	30.7	
6	336	6.67	30.0	
7	10,380	75.00	10.9	Upper Marker

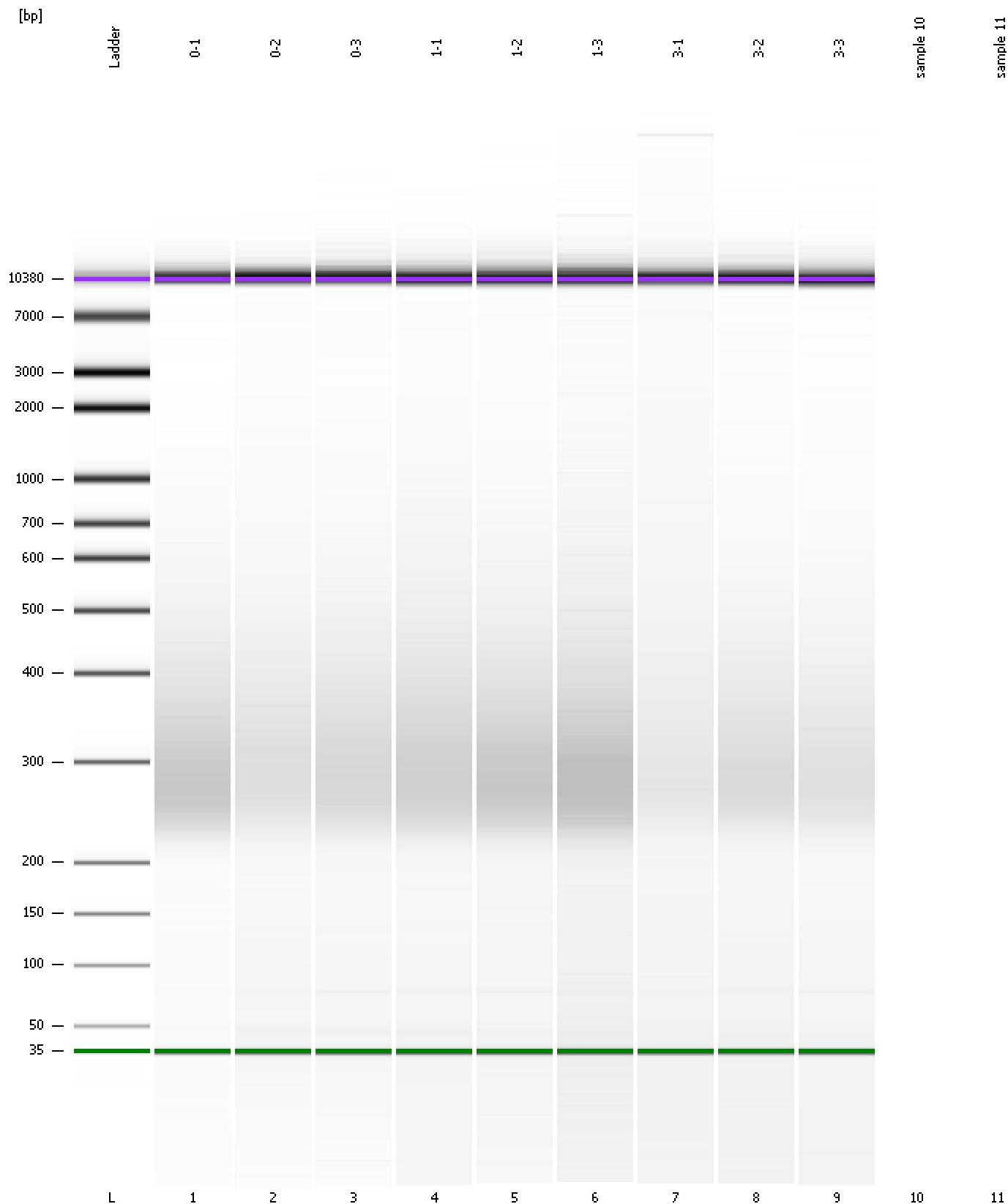
Region table for sample 9 : 3-3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
215	333	625	186.6	90	23.7	185.12	900.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
Modified: 10/2/2014 2:04:34 PM

Gel Image

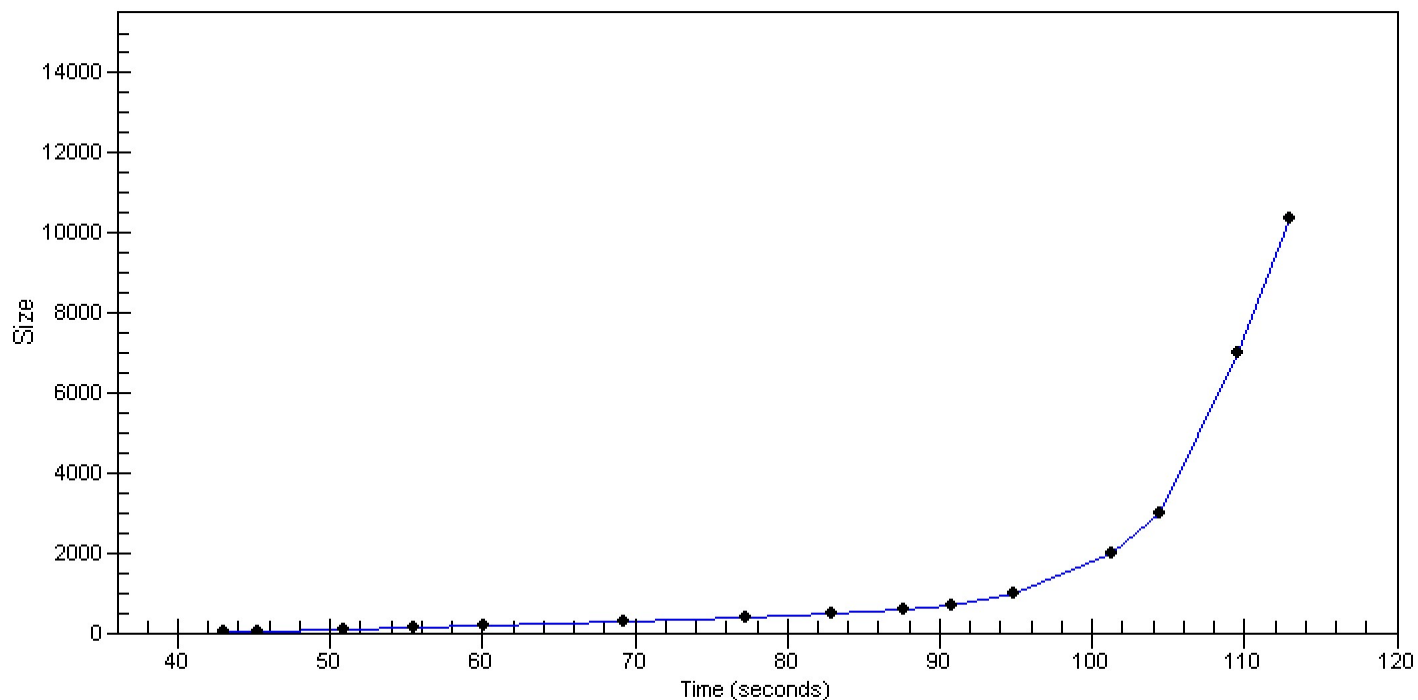


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
Modified: 10/2/2014 2:04:34 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
Modified: 10/2/2014 2:04:34 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\2014-10-02\2014-10-02_002.xad

Created: 10/2/2014 1:28:10 PM
 Modified: 10/2/2014 2:04:34 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		10/2/2014 2:03:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-02\2014-10-02_002.xad)		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/2/2014 1:28:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1