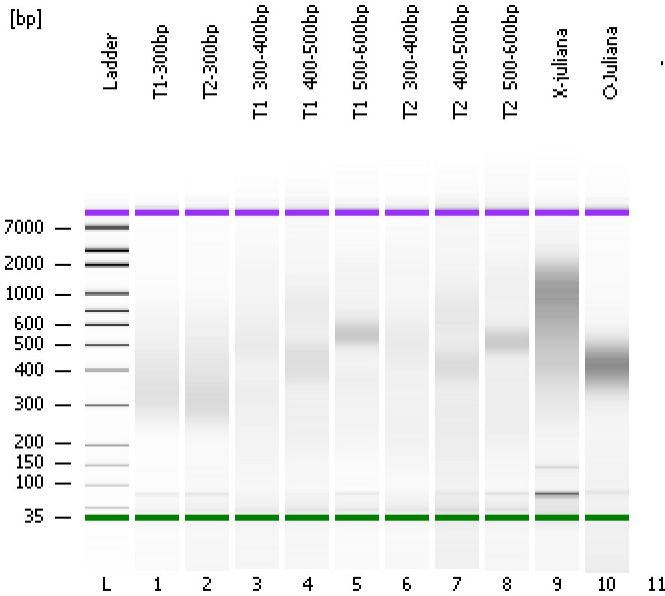


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
Modified: 5/10/2013 5:23:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

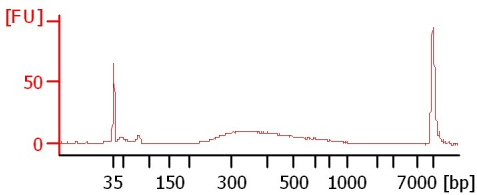
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

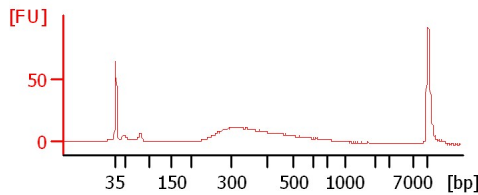
Chip Information:

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

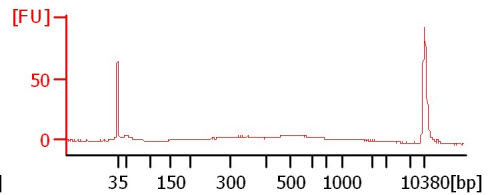
T1-300bp



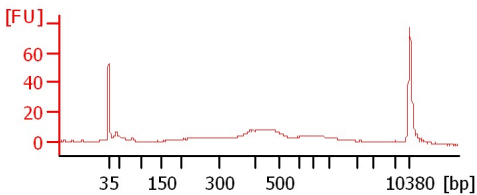
T2-300bp



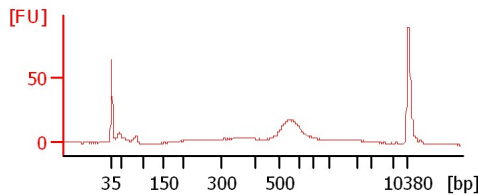
T1_300-400bp



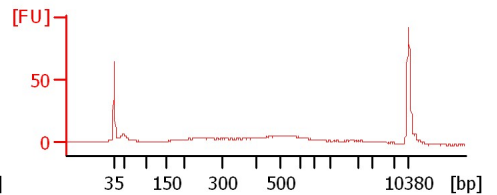
T1_400-500bp



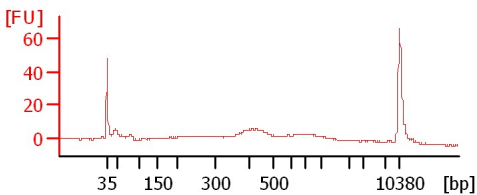
T1_500-600bp



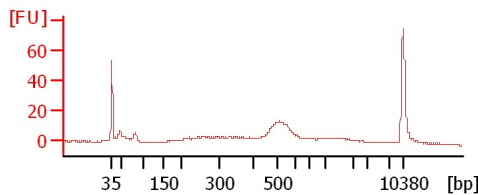
T2_300-400bp



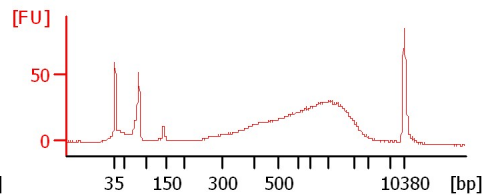
T2_400-500bp



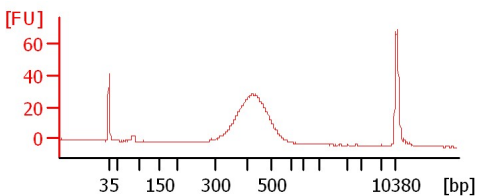
T2_500-600bp



X-Juliana



O-Juliana



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
T1-300bp		<input type="checkbox"/>	✓			
T2-300bp		<input type="checkbox"/>	✓			
T1_300-400bp		<input type="checkbox"/>	✓			
T1_400-500bp		<input type="checkbox"/>	✓			
T1_500-600bp		<input type="checkbox"/>	✓			
T2_300-400bp		<input type="checkbox"/>	✓			
T2_400-500bp		<input type="checkbox"/>	✓			
T2_500-600bp		<input type="checkbox"/>	✓			
X-juliana		<input type="checkbox"/>	✓			
O-Juliana		<input type="checkbox"/>	✓			
-		<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\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 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

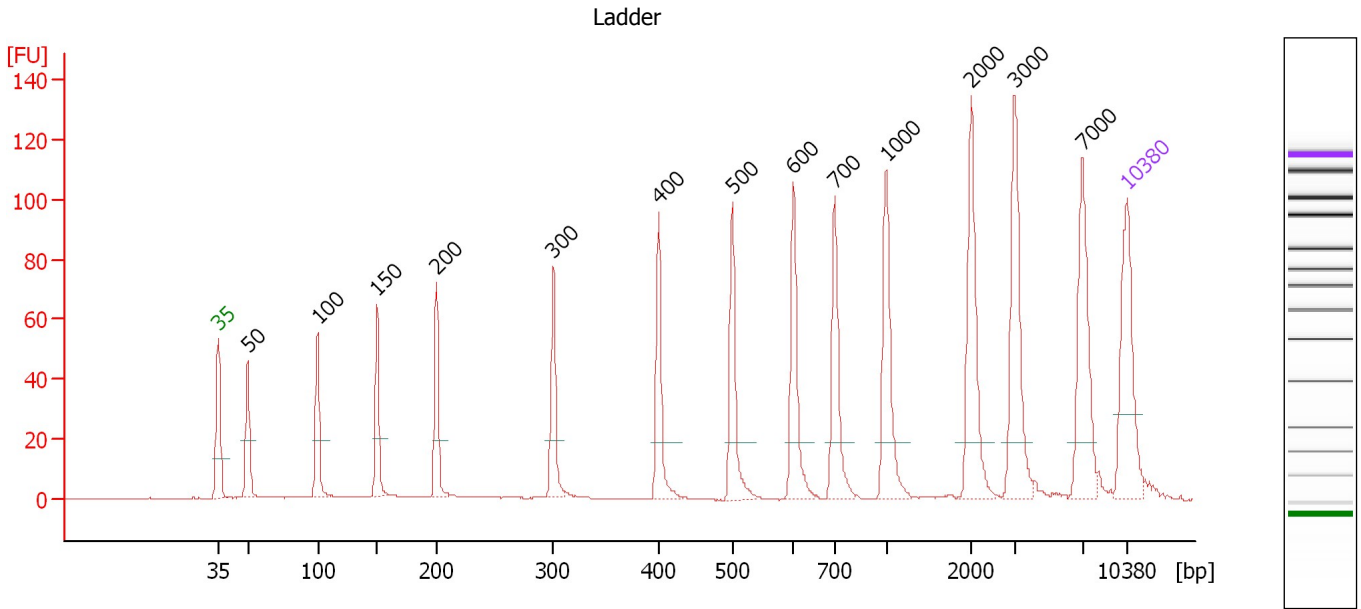
Ladder

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\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

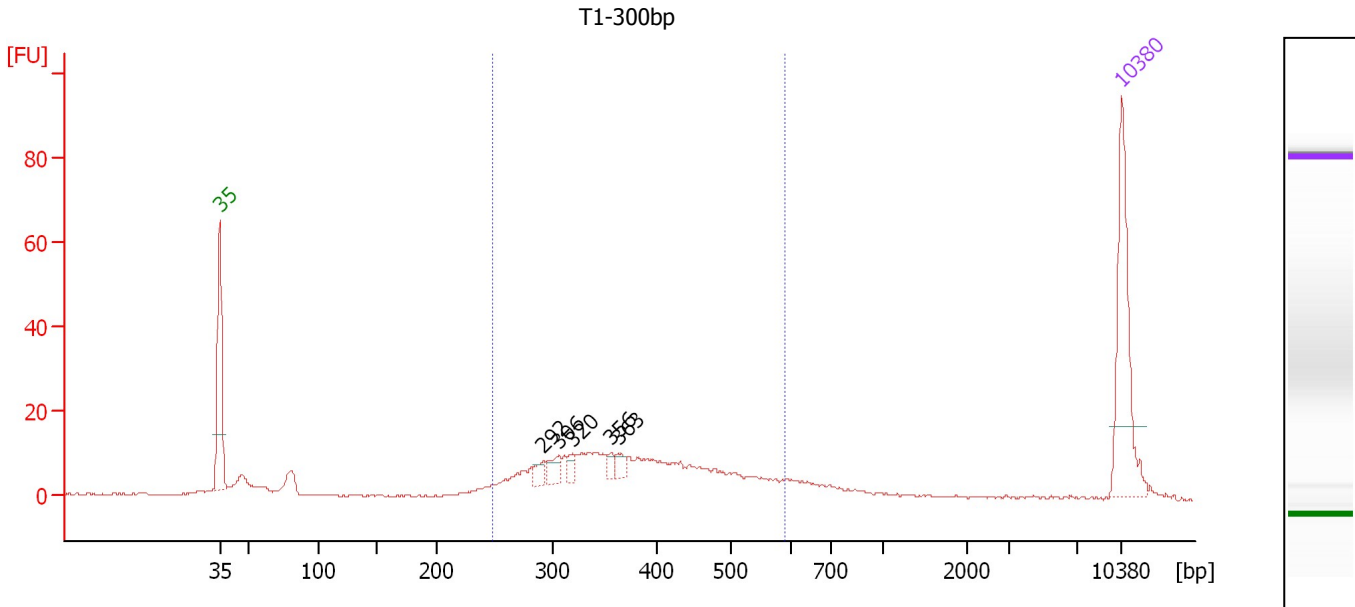
Peak table for Ladder

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\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : T1-300bp

Number of peaks found: 5 Corr. Area 1: 240.2
 Noise: 0.2

Peak table for sample 1 : T1-300bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	10.73	55.6	
3	306	14.92	73.8	
4	320	7.81	37.0	
5	356	6.33	26.9	
6	363	8.11	33.9	
7	10,380	75.00	10.9	Upper Marker

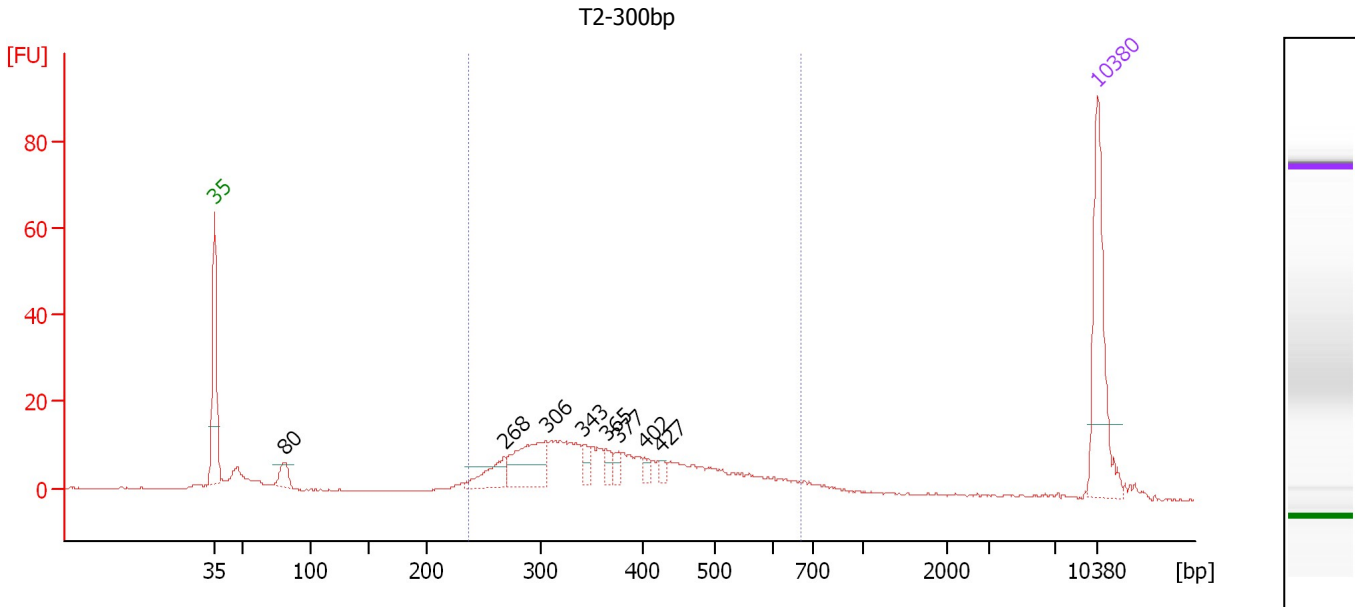
Region table for sample 1 : T1-300bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
249	592	386	1,311.7	312.80	240.2	73	21.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : T2-300bp

Number of peaks found: 8 Corr. Area 1: 286.0
 Noise: 0.2

Peak table for sample 2 : T2-300bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	18.50	350.1	
3	268	31.52	178.3	
4	306	64.00	317.3	
5	343	10.77	47.6	
6	365	8.14	33.8	
7	377	9.10	36.6	
8	402	7.11	26.8	
9	427	5.45	19.3	
10	10,380	75.00	10.9	Upper Marker

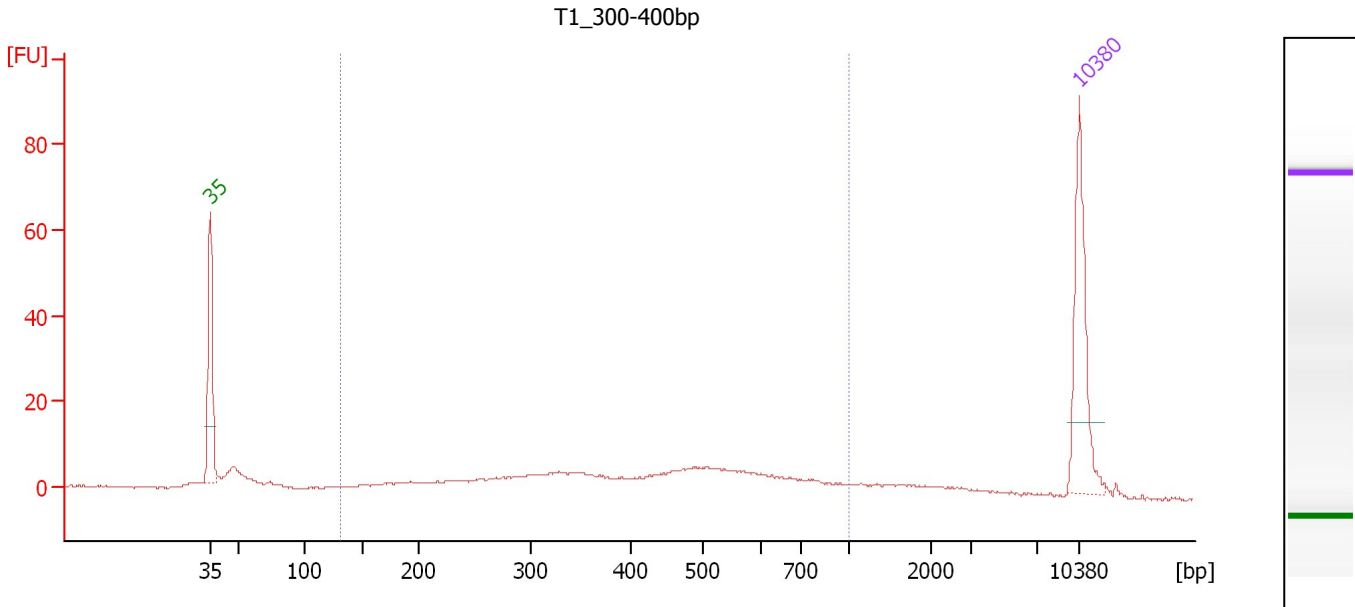
Region table for sample 2 : T2-300bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
236	667	386	1,659.2	386.03	286.0	77	26.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : T1_300-400bp

Number of peaks found: 0 Corr. Area 1: 206.0
 Noise: 0.2

Peak table for sample 3 : T1_300-400bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

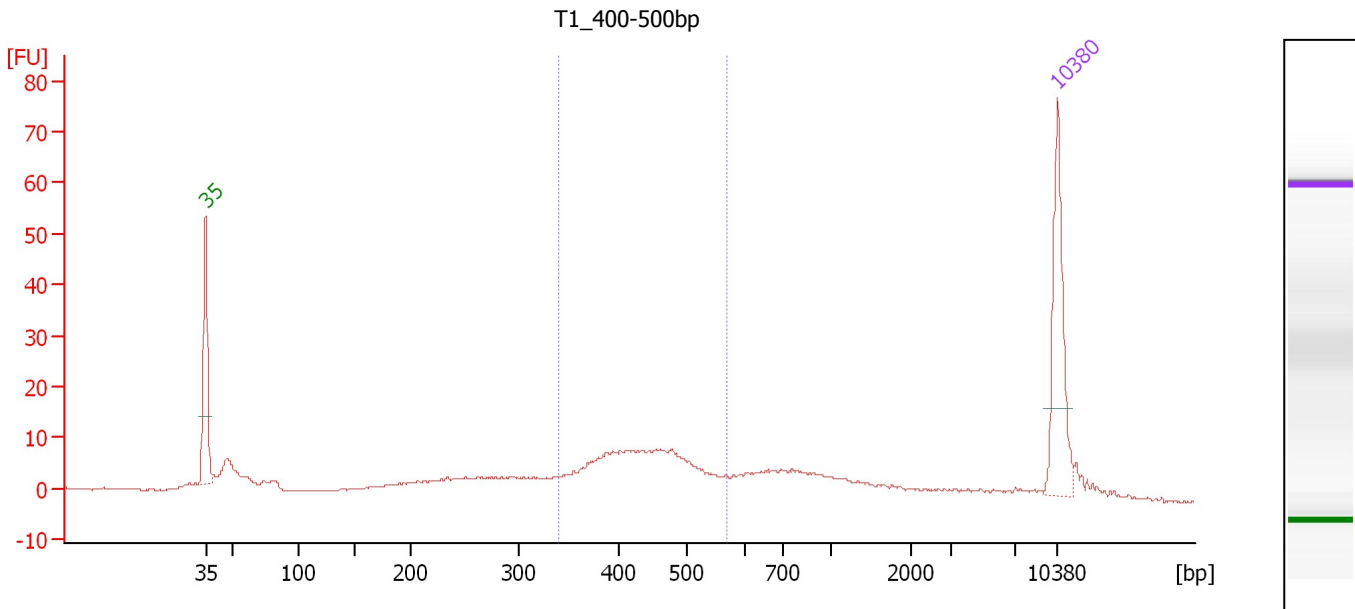
Region table for sample 3 : T1_300-400bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
132	1,000	449	1,232.7	276.57	206.0	71	40.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : T1_400-500bp

Number of peaks found: 0 Corr. Area 1: 122.8
 Noise: 0.2

Peak table for sample 4 : T1_400-500bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

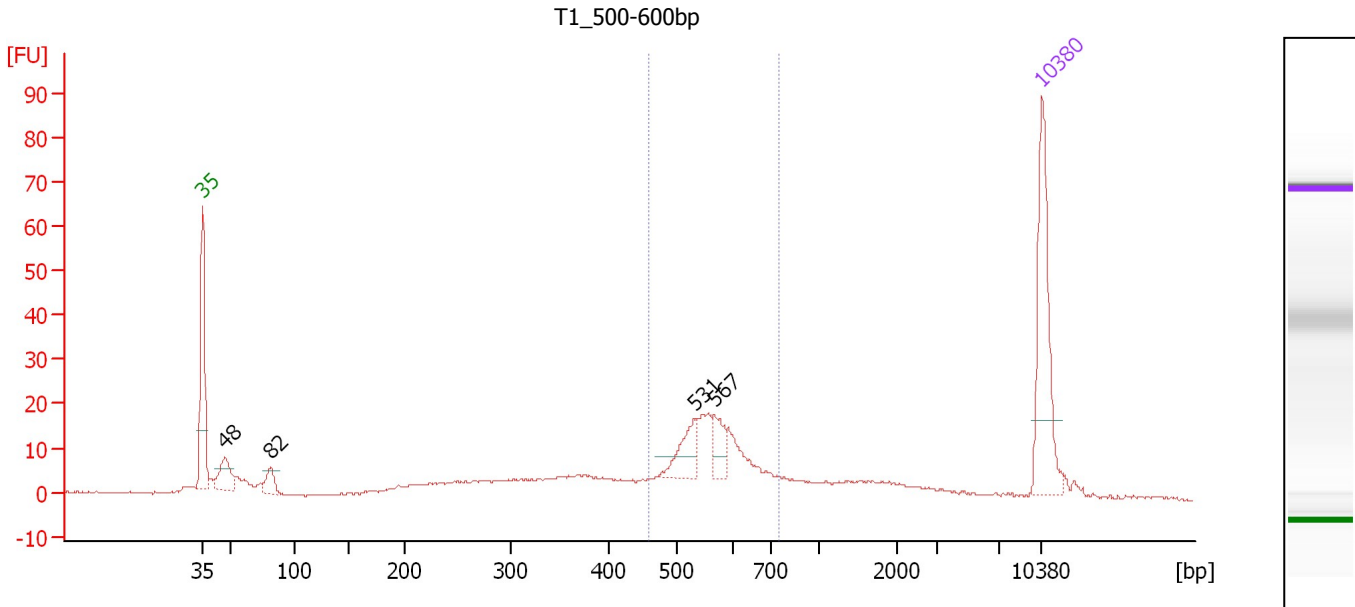
Region table for sample 4 : T1_400-500bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	569	439	690.6	195.87	122.8	37	13.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : T1_500-600bp

Number of peaks found: 4 Corr. Area 1: 142.7
 Noise: 0.2

Peak table for sample 5 : T1_500-600bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	34.60	1,098.9	
3	82	18.35	341.1	
4	531	30.25	86.4	
5	567	21.67	57.9	
6	10,380	75.00	10.9	Upper Marker

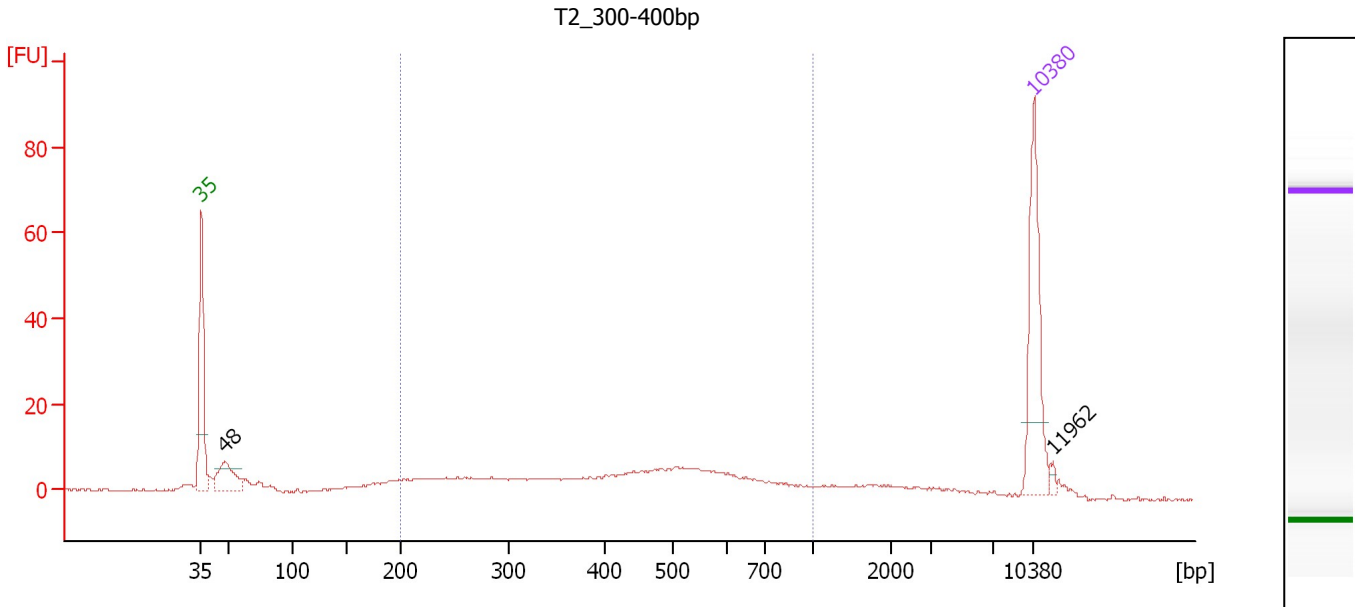
Region table for sample 5 : T1_500-600bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
459	750	568	449.1	166.14	142.7	39	10.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : T2_300-400bp

Number of peaks found: 2 Corr. Area 1: 187.4
 Noise: 0.2

Peak table for sample 6 : T2_300-400bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	49.84	1,569.7	
3	10,380	75.00	10.9	Upper Marker
4	11,962	0.00	0.0	

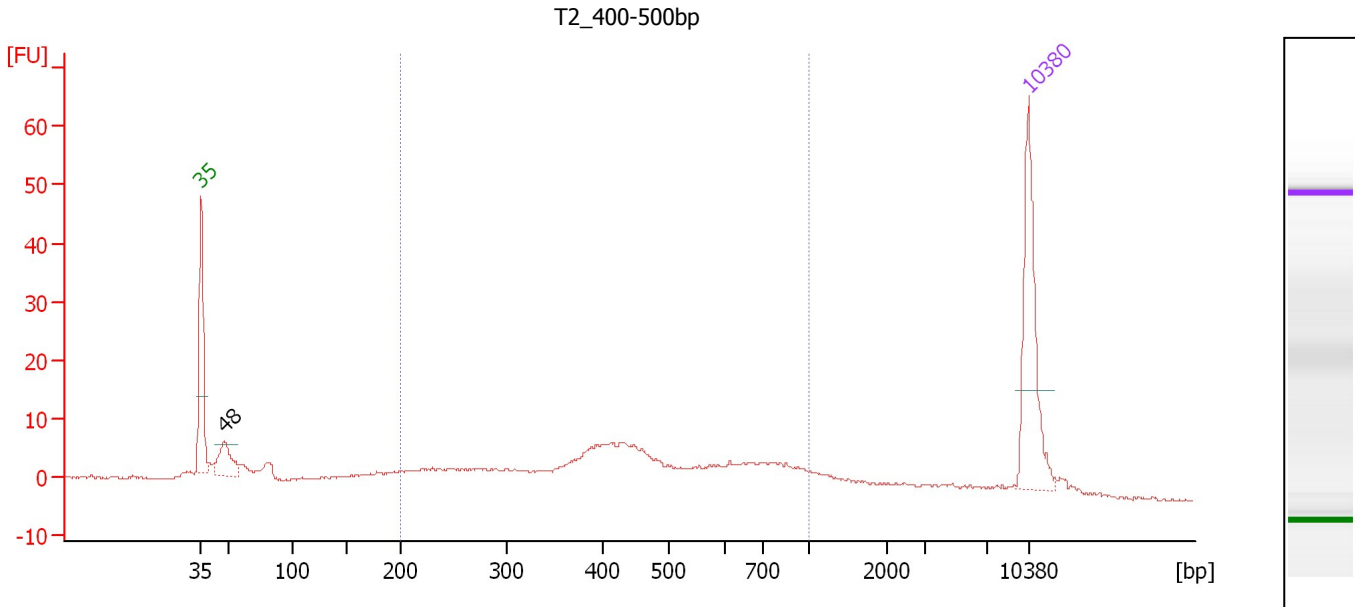
Region table for sample 6 : T2_300-400bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	455	1,039.1	253.22	187.4	64	37.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : T2_400-500bp

Number of peaks found: 1 Corr. Area 1: 189.2
 Noise: 0.2

Peak table for sample 7 : T2_400-500bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	39.94	1,271.8	
3	10,380	75.00	10.9	Upper Marker

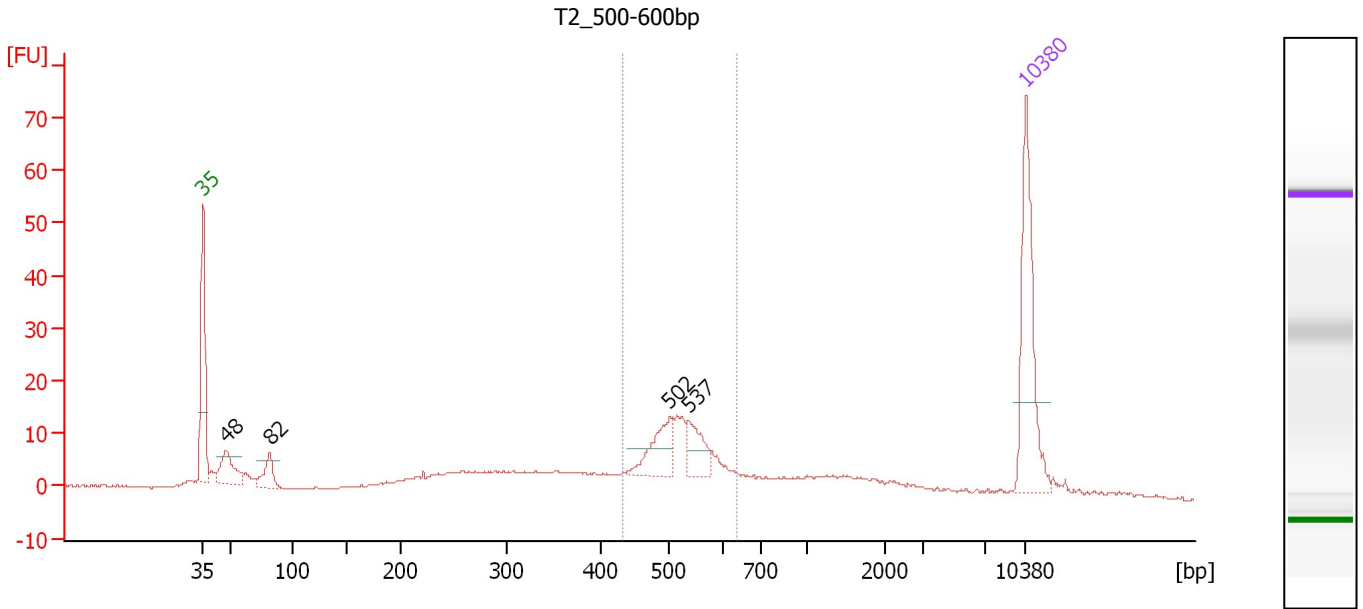
Region table for sample 7 : T2_400-500bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	479	1,188.1	304.68	189.2	64	38.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : T2_500-600bp

Number of peaks found: 4 Corr. Area 1: 110.5
 Noise: 0.2

Peak table for sample 8 : T2_500-600bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	41.22	1,294.4	
3	82	25.43	471.6	
4	502	39.36	118.8	
5	537	28.17	79.5	
6	10,380	75.00	10.9	Upper Marker

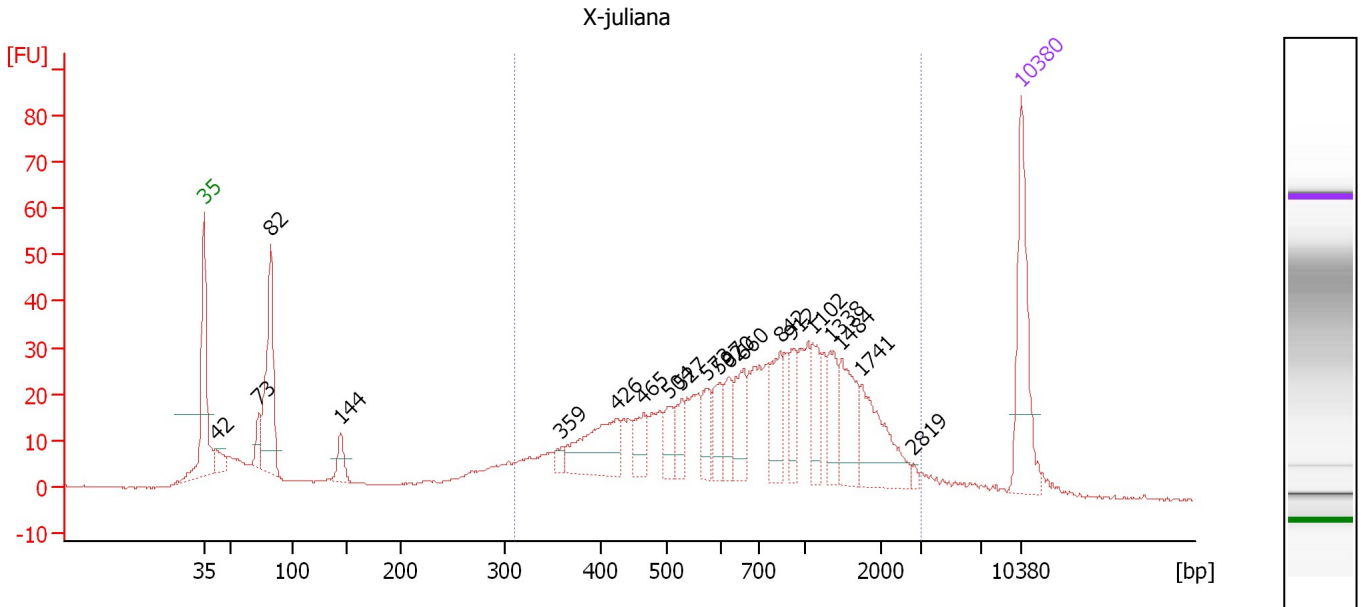
Region table for sample 8 : T2_500-600bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
433	636	523	452.1	154.66	110.5	32	8.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : X-juliana

Number of peaks found: 20 Corr. Area 1: 776.9
 Noise: 0.2

Peak table for sample 9 : X-juliana

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	19.52	709.6	
3	73	23.72	494.4	
4	82	148.50	2,742.5	
5	144	24.48	257.5	
6	359	9.24	39.0	
7	426	80.01	284.4	
8	465	29.81	97.1	
9	504	25.70	77.3	
10	527	21.80	62.7	
11	573	26.70	70.6	
12	597	27.50	69.8	
13	620	26.28	64.2	
14	660	40.17	92.2	
15	842	43.34	77.9	
16	912	30.71	51.0	
17	1,102	29.70	40.8	
18	1,338	31.27	35.4	
19	1,484	48.01	49.0	
20	1,741	61.16	53.2	
21	2,819	2.89	1.6	
22	10,380	75.00	10.9	Upper Marker

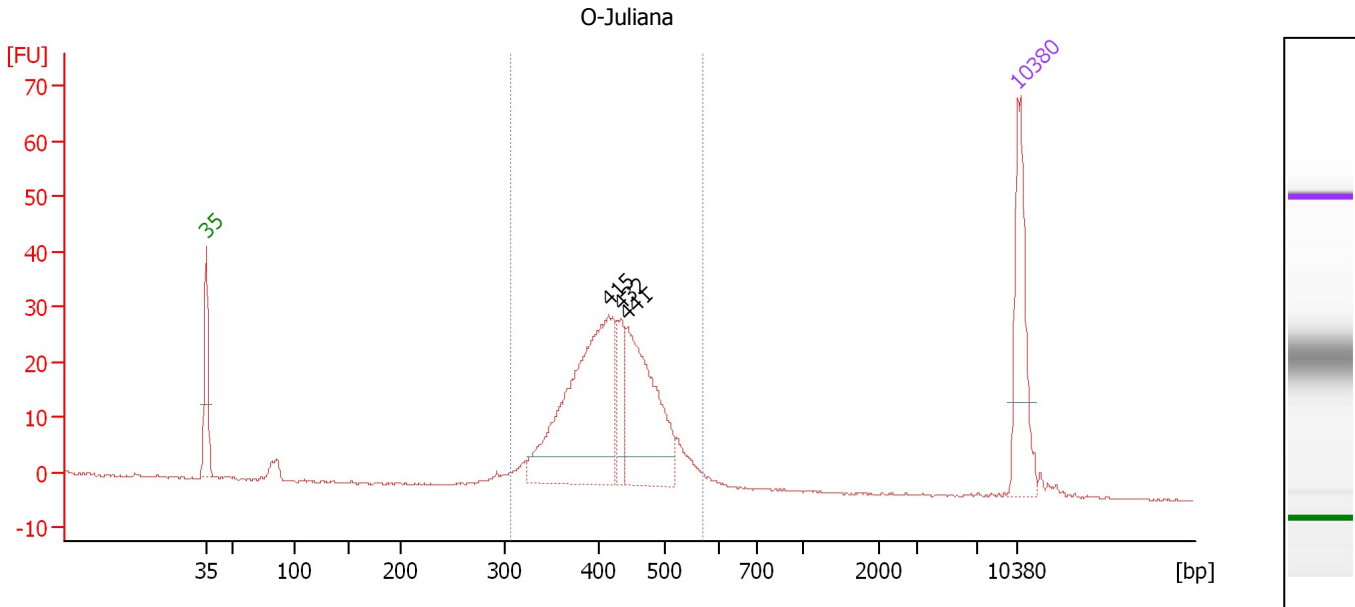
Region table for sample 9 : X-juliana

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
309	3,013	909	2,367.4	975.57	776.9	73	60.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : O-Juliana

Number of peaks found: 3 Corr. Area 1: 353.6
 Noise: 0.1

Peak table for sample 10 : O-Juliana

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	415	275.96	1,008.5	
3	432	37.45	131.3	
4	441	165.66	568.9	
5	10,380	75.00	10.9	Upper Marker

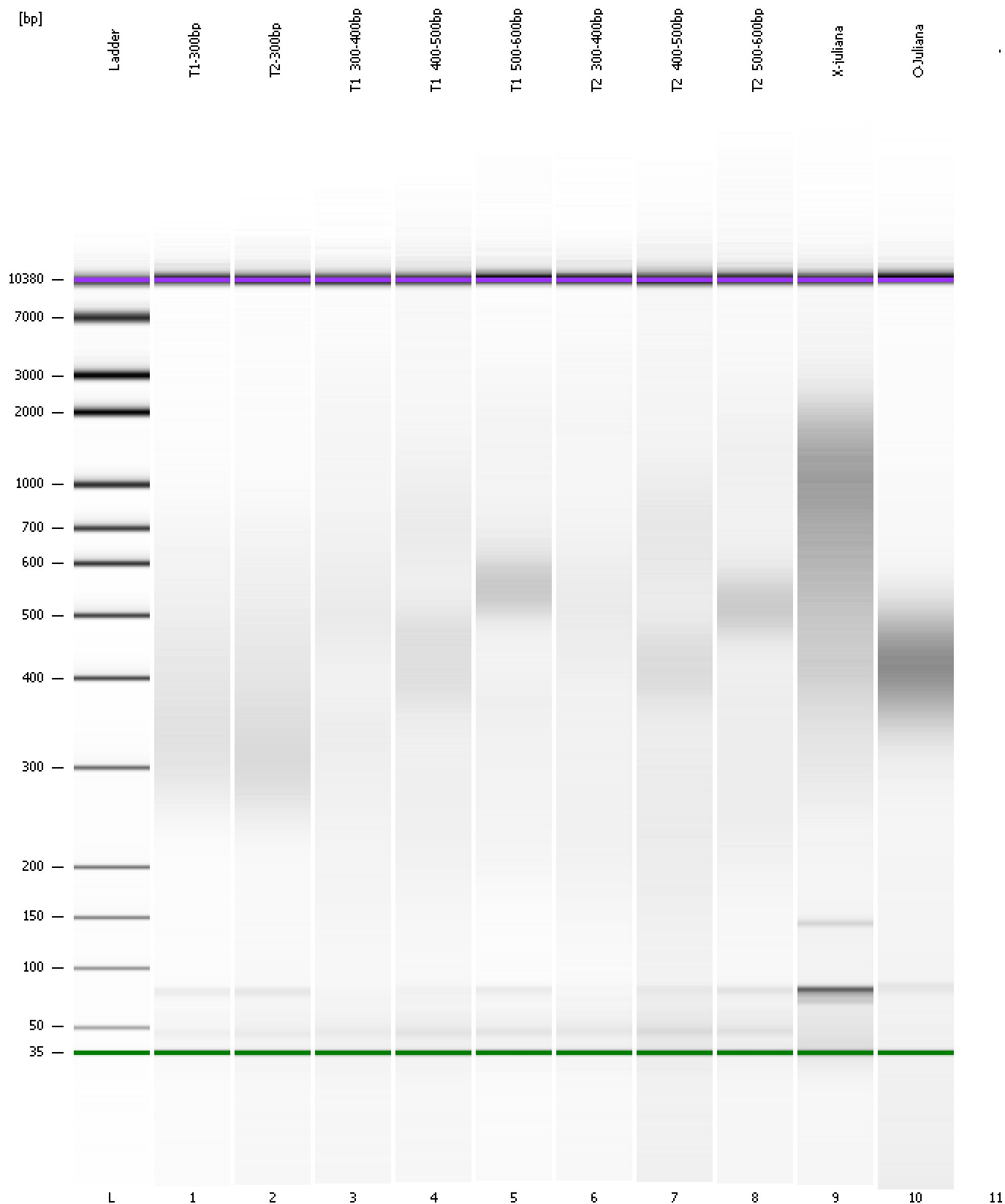
Region table for sample 10 : O-Juliana

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
305	570	423	1,999.0	547.55	353.6	94	12.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
Modified: 5/10/2013 5:23:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
Modified: 5/10/2013 5:23:11 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad

Created: 5/10/2013 4:35:38 PM
 Modified: 5/10/2013 5:23:11 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		5/10/2013 5:13:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-10\2013-05-10_005.xad)		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/10/2013 4:35:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1