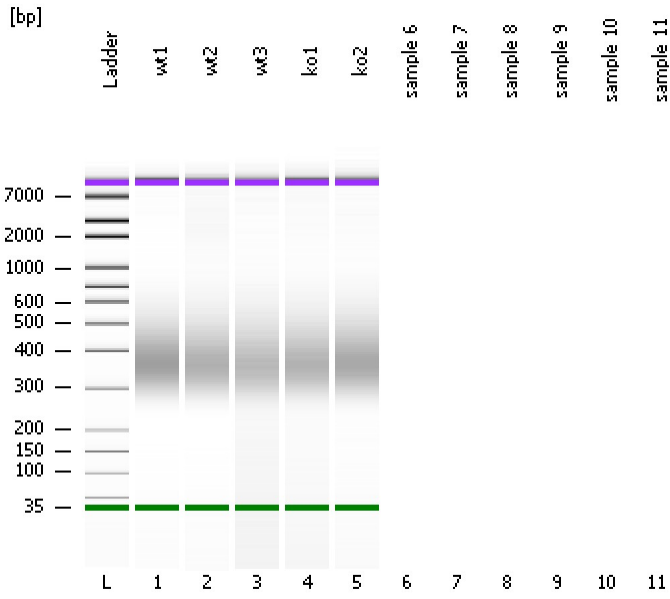


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
Modified: 2/14/2014 4:39:19 PM

Electrophoresis File Run Summary



Instrument Information:

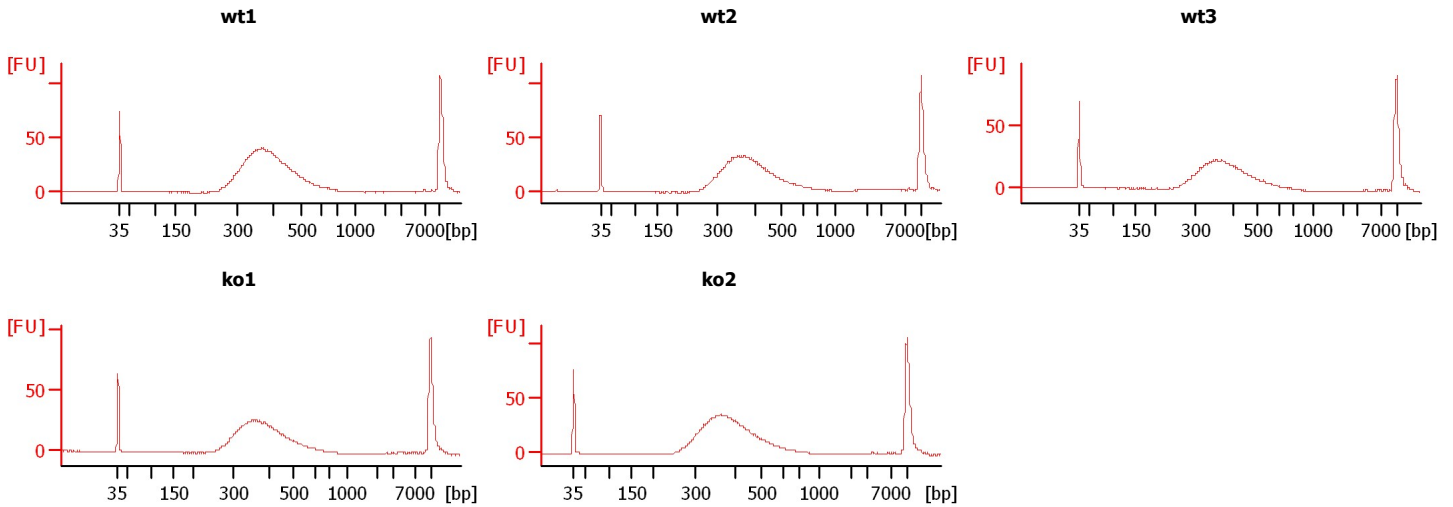
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
Modified: 2/14/2014 4:39:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
wt1		<input type="checkbox"/>	✓			
wt2		<input type="checkbox"/>	✓			
wt3		<input type="checkbox"/>	✓			
ko1		<input type="checkbox"/>	✓			
ko2		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<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\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
Modified: 2/14/2014 4:39:19 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

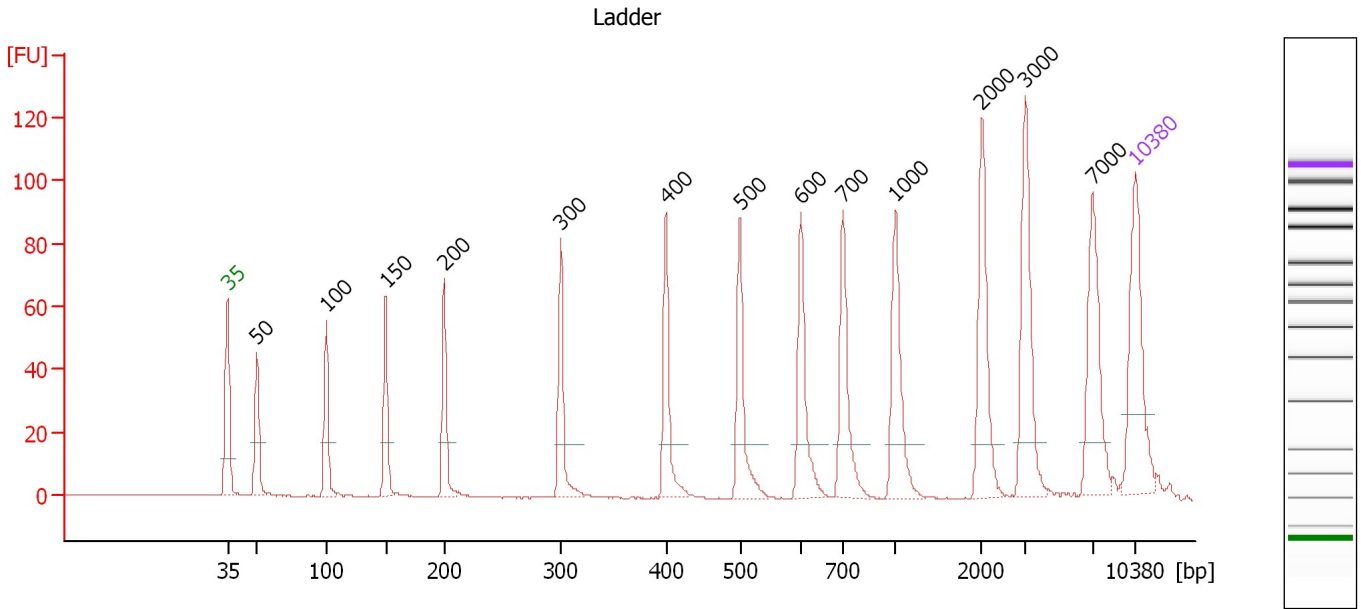
Ladder

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\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

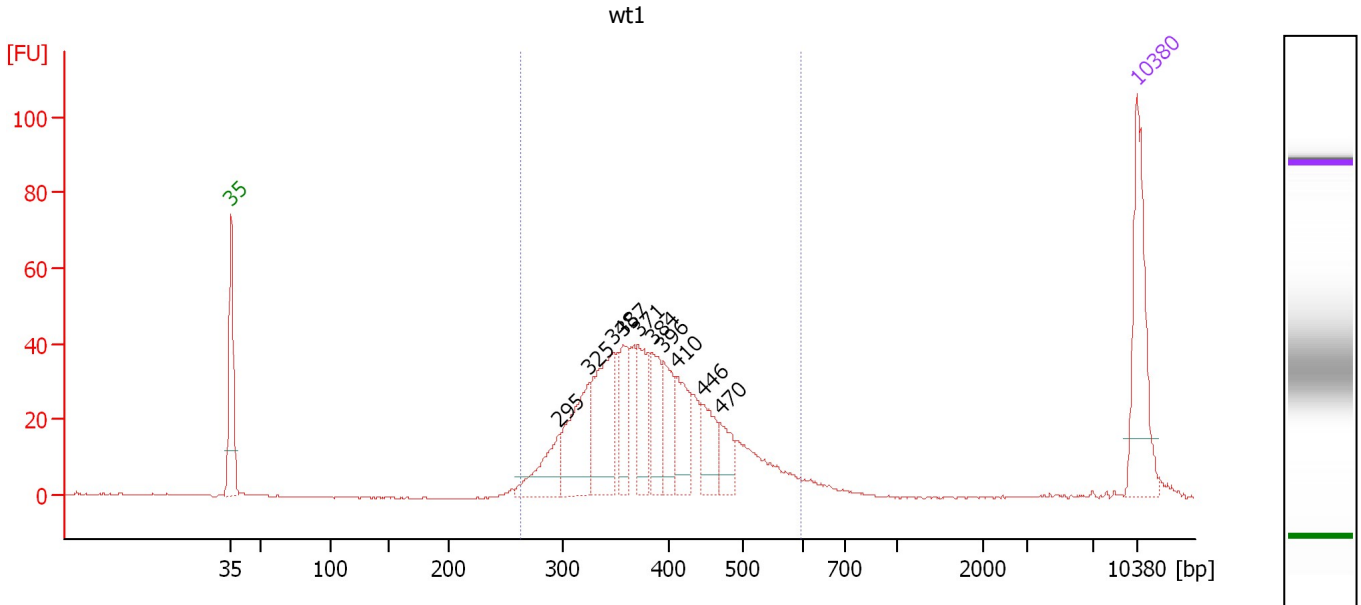
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.26	50	150.00	4,545.5	Ladder Peak
3	50.60	100	150.00	2,272.7	Ladder Peak
4	55.21	150	150.00	1,515.2	Ladder Peak
5	59.73	200	150.00	1,136.4	Ladder Peak
6	68.69	300	150.00	757.6	Ladder Peak
7	76.79	400	150.00	568.2	Ladder Peak
8	82.50	500	150.00	454.5	Ladder Peak
9	87.23	600	150.00	378.8	Ladder Peak
10	90.43	700	150.00	324.7	Ladder Peak
11	94.46	1,000	150.00	227.3	Ladder Peak
12	101.16	2,000	150.00	113.6	Ladder Peak
13	104.49	3,000	150.00	75.8	Ladder Peak
14	109.67	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : wt1

Number of peaks found: 10 Corr. Area 1: 666.6
 Noise: 0.2

Peak table for sample 1 : wt1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.27	295	54.00	277.1	
3	70.70	325	88.79	414.1	
4	72.56	348	105.53	459.8	
5	73.34	357	45.05	191.0	
6	74.45	371	59.71	243.7	
7	75.53	384	46.27	182.3	
8	76.43	396	42.83	164.0	
9	77.38	410	50.19	185.3	
10	79.40	446	37.54	127.6	
11	80.80	470	28.60	92.1	
12	113.00	10,380	75.00	10.9	Upper Marker

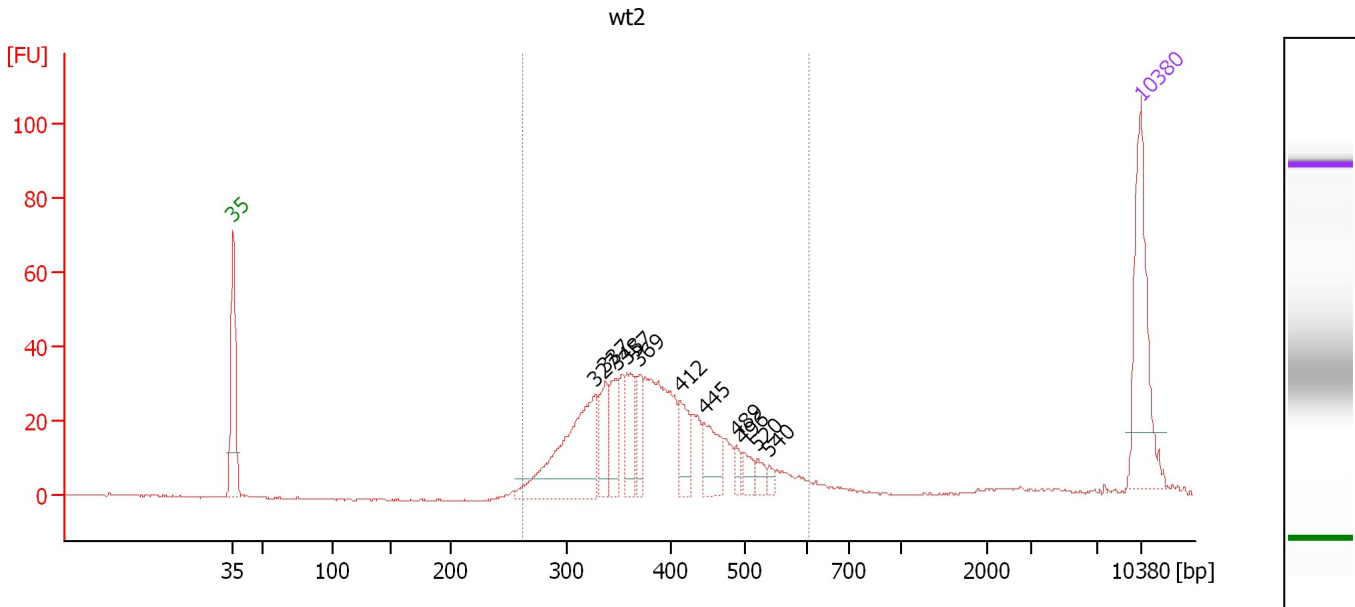
Region table for sample 1 : wt1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
262	597	390	2,887.4	714.11	666.6	96	17.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : wt2

Number of peaks found: 11 Corr. Area 1: 542.5
 Noise: 0.2

Peak table for sample 2 : wt2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	70.90	327	140.07	648.4	
3	71.72	337	38.23	171.6	
4	72.55	348	34.07	148.5	
5	73.33	357	36.87	156.4	
6	74.32	369	27.50	112.8	
7	77.49	412	32.05	117.8	
8	79.34	445	35.44	120.8	
9	81.85	489	8.56	26.5	
10	82.30	496	13.53	41.3	
11	83.45	520	9.39	27.3	
12	84.40	540	4.58	12.9	
13	113.00	10,380	75.00	10.9	Upper Marker

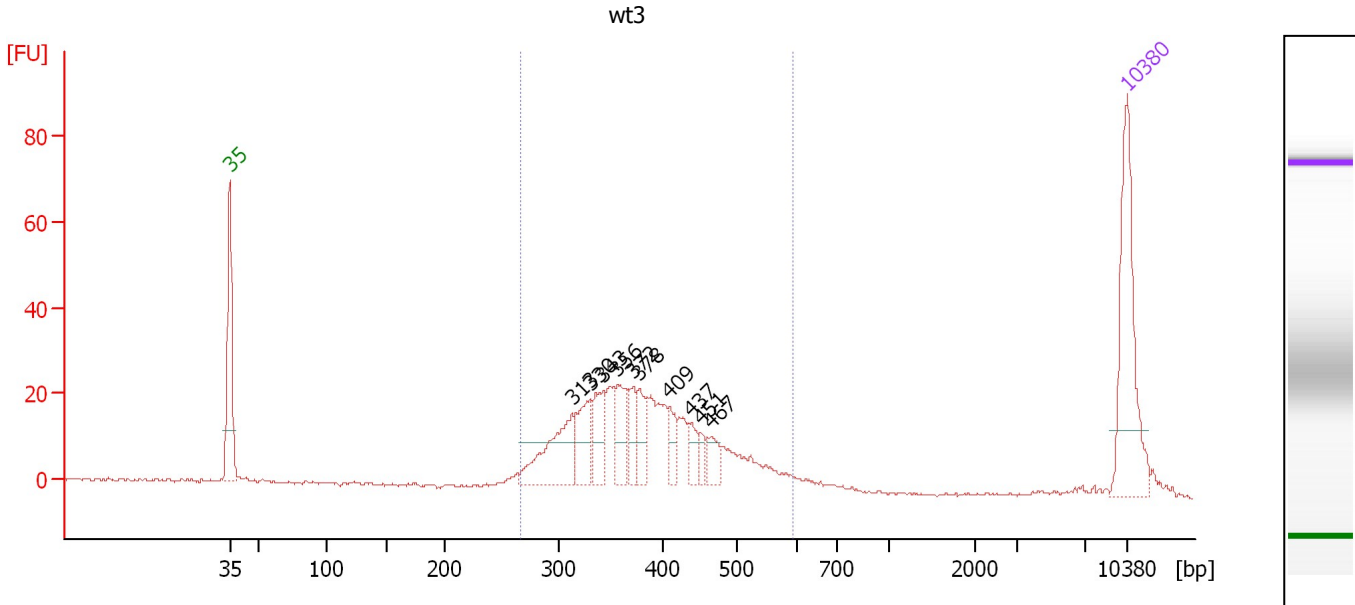
Region table for sample 2 : wt2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
262	608	389	2,296.9	565.62	542.5	96	18.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : wt3

Height Threshold [FU] : 10

Overall Results for sample 3 : wt3

Number of peaks found: 10 Corr. Area 1: 404.6
 Noise: 0.4

Peak table for sample 3 : wt3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	69.70	313	69.64	337.6	
3	71.12	330	39.10	179.5	
4	72.16	343	33.91	149.9	
5	73.24	356	36.80	156.6	
6	74.49	372	22.17	90.4	
7	74.98	378	23.45	94.1	
8	77.31	409	15.64	57.9	
9	78.89	437	12.88	44.7	
10	79.73	451	8.52	28.6	
11	80.60	467	14.40	46.8	
12	113.00	10,380	75.00	10.9	Upper Marker

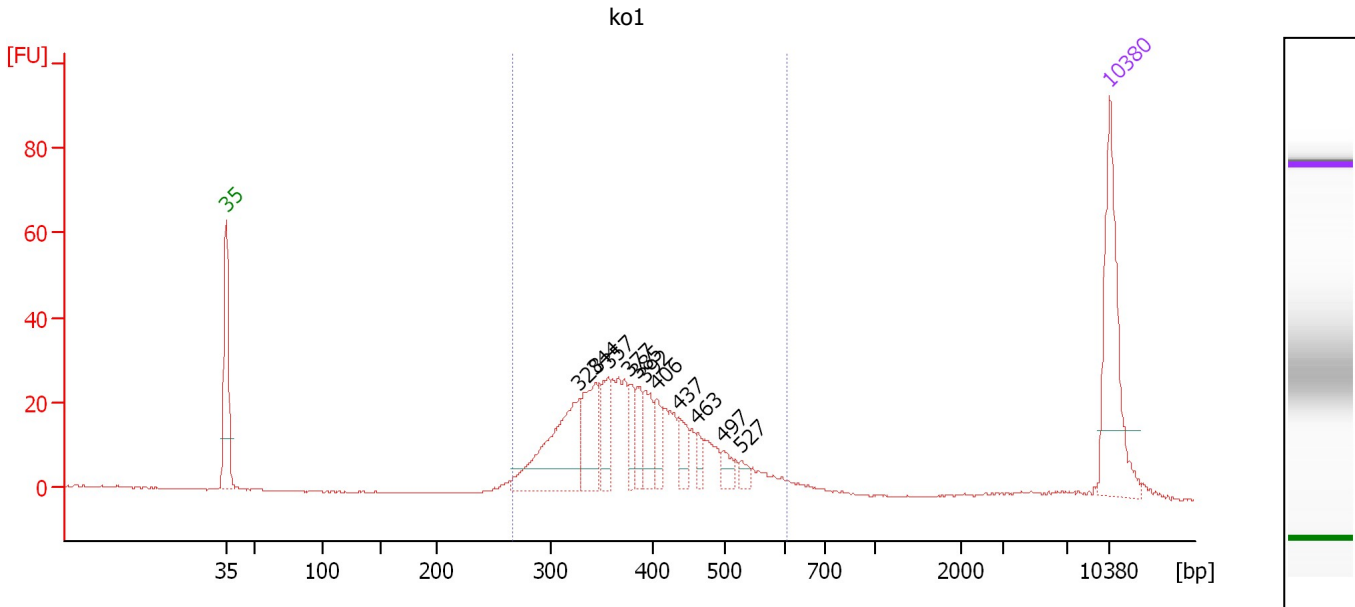
Region table for sample 3 : wt3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	593	387	1,773.5	434.24	404.6	93	18.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ko1

Number of peaks found: 11 Corr. Area 1: 456.8
 Noise: 0.2

Peak table for sample 4 : ko1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	70.98	328	107.93	498.1	
3	72.25	344	52.91	233.0	
4	73.27	357	33.76	143.5	
5	74.96	377	19.89	79.9	
6	75.59	385	20.42	80.3	
7	76.14	392	28.41	109.8	
8	77.11	406	19.25	71.9	
9	78.89	437	18.97	65.8	
10	80.37	463	9.27	30.4	
11	82.35	497	11.53	35.1	
12	83.79	527	6.85	19.7	
13	113.00	10,380	75.00	10.9	Upper Marker

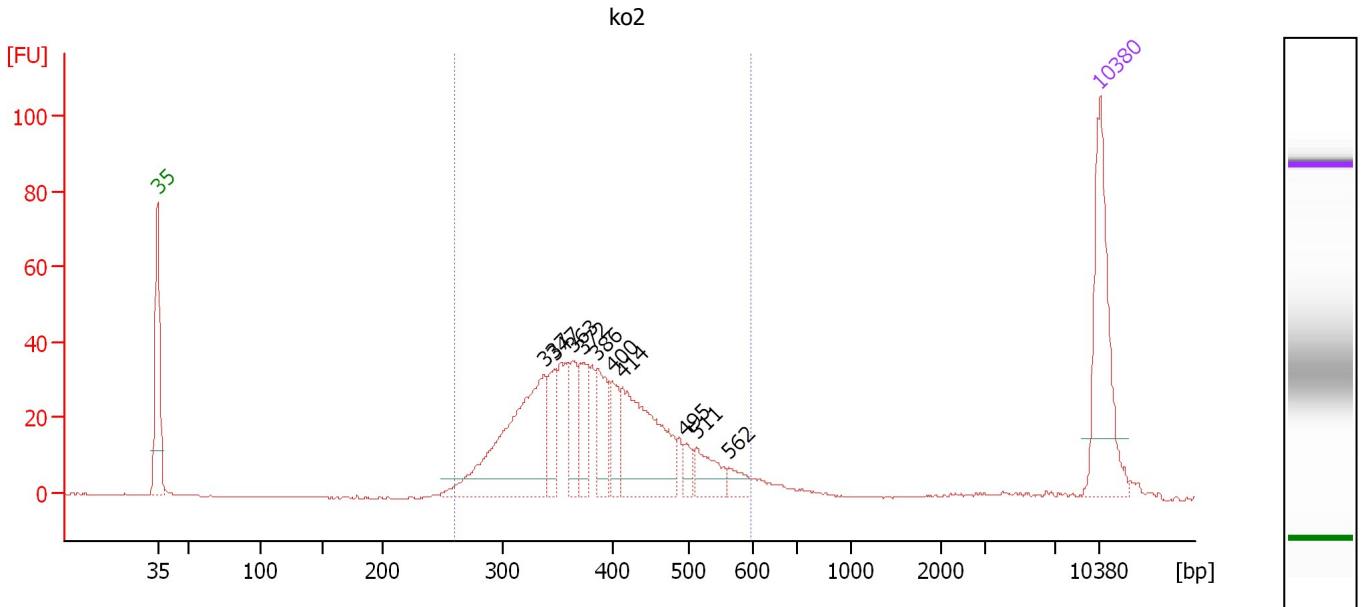
Region table for sample 4 : ko1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
267	607	390	1,981.8	489.69	456.8	94	18.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
 Modified: 2/14/2014 4:39:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ko2

Number of peaks found: 10 Corr. Area 1: 605.2
 Noise: 0.2

Peak table for sample 5 : ko2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.71	337	167.10	750.6	
3	72.48	347	33.37	145.8	
4	73.81	363	30.38	126.7	
5	74.53	372	35.38	144.0	
6	75.65	386	38.27	150.3	
7	76.76	400	28.01	106.2	
8	77.57	414	109.75	401.9	
9	82.19	495	9.84	30.1	
10	83.01	511	27.04	80.2	
11	85.44	562	11.58	31.2	
12	113.00	10,380	75.00	10.9	Upper Marker

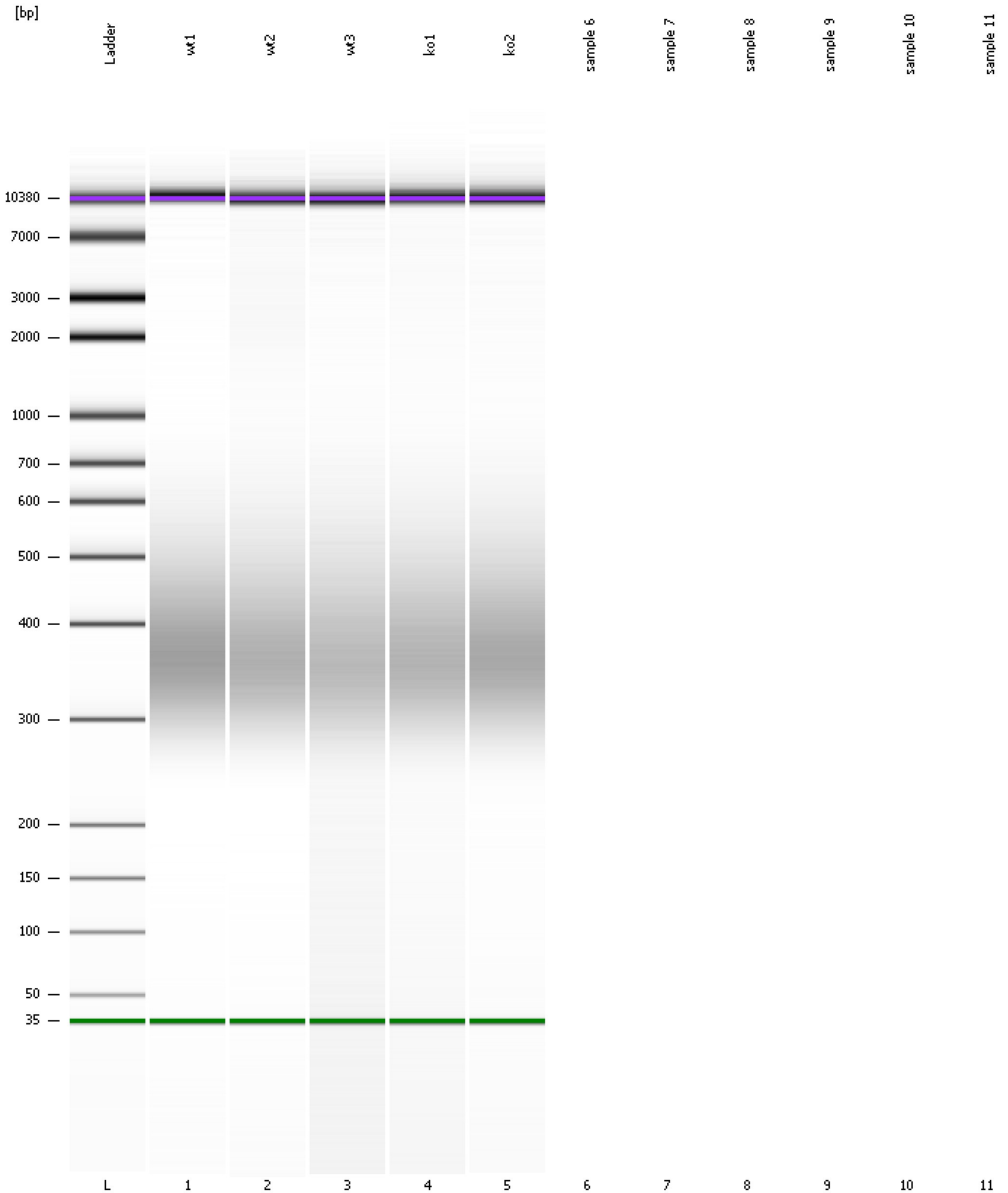
Region table for sample 5 : ko2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
259	595	391	2,291.4	566.41	605.2	94	18.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
Modified: 2/14/2014 4:39:19 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_006.xad

Created: 2/14/2014 3:54:01 PM
Modified: 2/14/2014 4:39:19 PM

Invalid Samples

- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- Sample 11 has not been run, no results available.