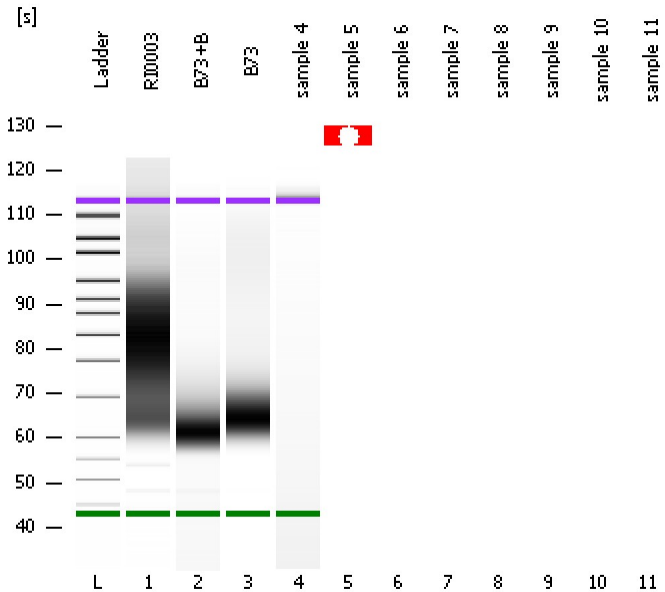


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
Modified: 4/11/2014 4:31:14 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

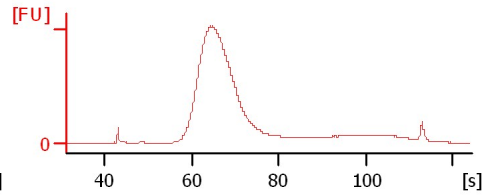
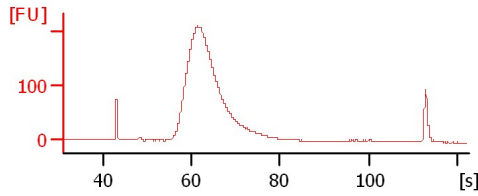
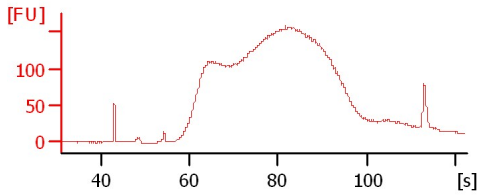
Chip Information:

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

**RI0003**

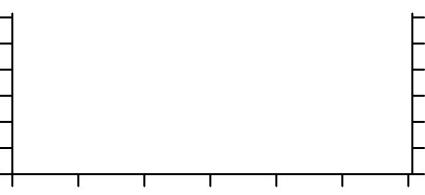
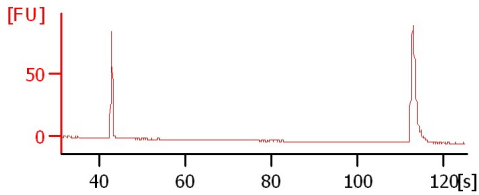
**B73+B**

**B73**



**sample 4**

**sample 5**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
 Modified: 4/11/2014 4:31:14 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RI0003		<input type="checkbox"/>	✓			
B73+B		<input type="checkbox"/>	✓			
B73		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<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\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
 Modified: 4/11/2014 4:31:14 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

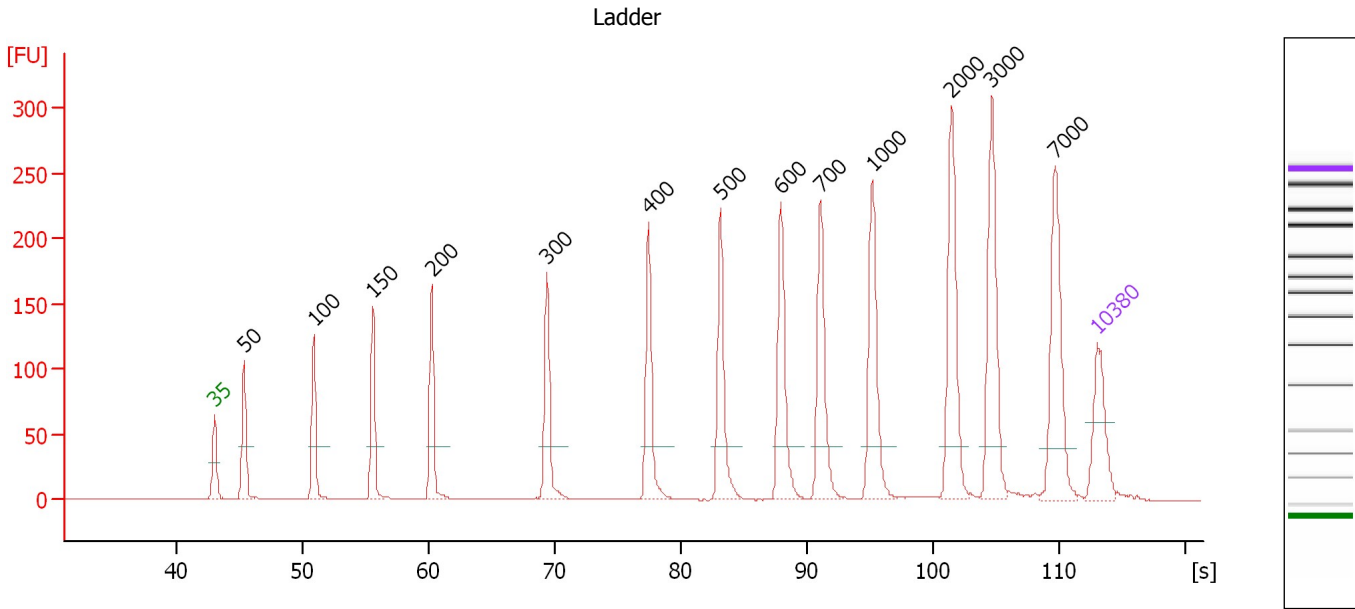
**Ladder**

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\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

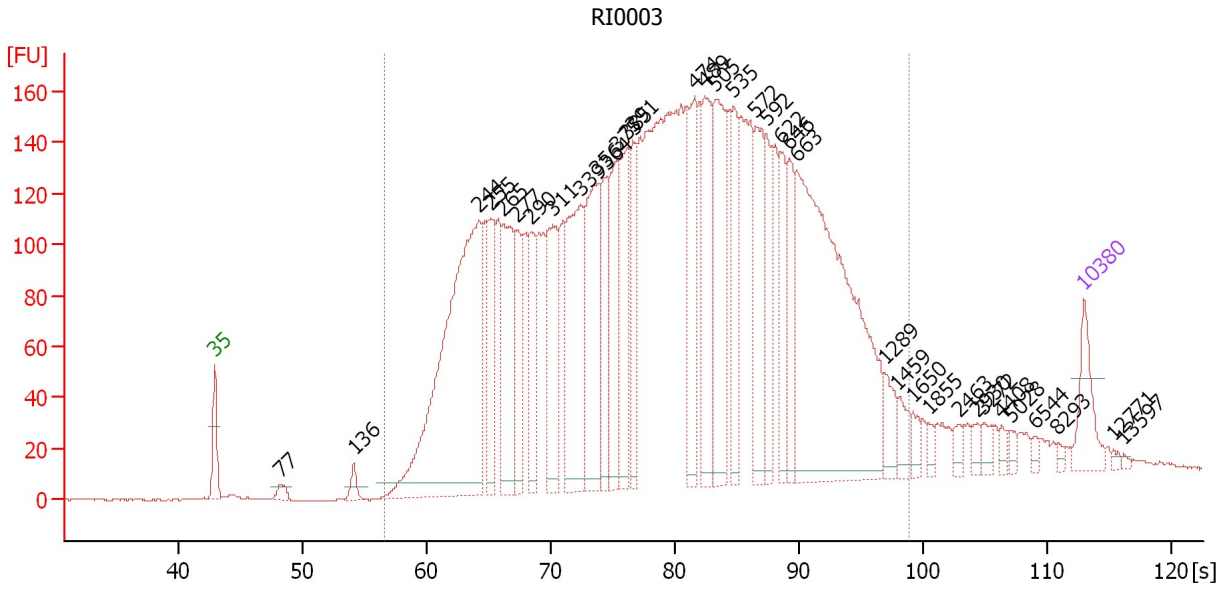
**Peak table for Ladder**

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	45.34	50	150.00	4,545.5	Ladder Peak
3	50.83	100	150.00	2,272.7	Ladder Peak
4	55.56	150	150.00	1,515.2	Ladder Peak
5	60.20	200	150.00	1,136.4	Ladder Peak
6	69.36	300	150.00	757.6	Ladder Peak
7	77.40	400	150.00	568.2	Ladder Peak
8	83.11	500	150.00	454.5	Ladder Peak
9	87.88	600	150.00	378.8	Ladder Peak
10	91.03	700	150.00	324.7	Ladder Peak
11	95.12	1,000	150.00	227.3	Ladder Peak
12	101.46	2,000	150.00	113.6	Ladder Peak
13	104.61	3,000	150.00	75.8	Ladder Peak
14	109.64	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\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
 Modified: 4/11/2014 4:31:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : RI0003**

Number of peaks found: 36                      Corr. Area 1: 5,584.3  
 Noise: 0.3

**Peak table for sample 1 : RI0003**

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	48.28	77	24.92	492.1	
3	54.21	136	30.80	344.0	
4	64.24	244	1,106.87	6,869.4	
5	65.24	255	195.74	1,163.0	
6	66.19	265	296.14	1,690.6	
7	67.27	277	152.61	834.1	
8	68.44	290	157.94	825.2	
9	70.21	311	251.00	1,224.2	
10	72.46	339	377.28	1,688.3	
11	73.85	356	332.56	1,416.2	
12	74.54	364	158.01	657.0	
13	75.36	375	239.97	970.6	
14	76.18	385	210.05	827.0	
15	76.70	391	153.23	593.3	
16	81.63	474	217.73	695.8	
17	82.46	489	240.98	747.4	
18	83.36	505	292.93	878.3	
19	84.79	535	153.45	434.3	
20	86.57	572	195.76	518.1	
21	87.47	592	138.61	355.0	
22	88.56	622	122.22	298.0	
23	89.33	646	127.80	299.6	
24	89.85	663	968.16	2,213.5	
25	96.95	1,289	50.20	59.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : RI0003**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	98.03	1,459	38.85	40.3	
27	99.24	1,650	20.83	19.1	
28	100.54	1,855	13.21	10.8	
29	102.92	2,463	19.37	11.9	
30	104.39	2,930	15.60	8.1	
31	104.95	3,272	18.98	8.8	
32	106.38	4,408	13.08	4.5	
33	107.16	5,028	12.14	3.7	
34	109.06	6,544	8.71	2.0	
35	110.92	8,293	6.37	1.2	
36	113.00	10,380	75.00	10.9	Upper Marker
37	115.38	12,771	0.00	0.0	
38	116.20	13,597	0.00	0.0	

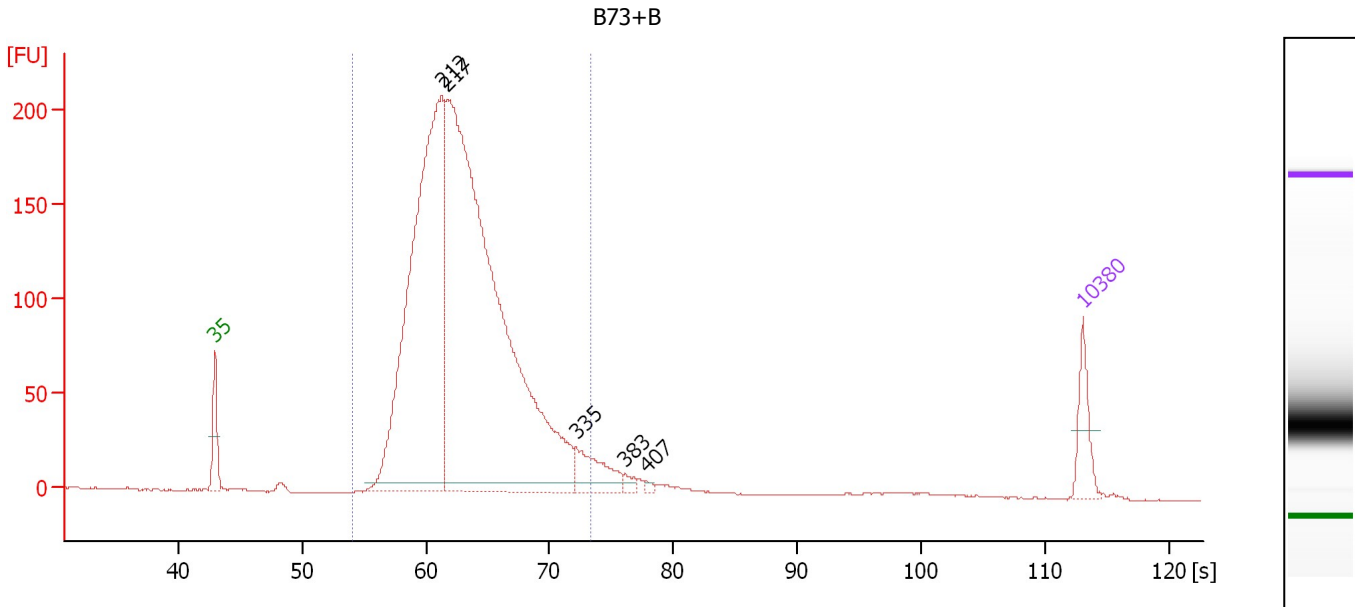
**Region table for sample 1 : RI0003**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
162	1,597	486	34,193.5	8,467.29	5,584.3	96	47.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B73+B**

Number of peaks found: 5                      Corr. Area 1: 2,826.0  
 Noise: 0.3

**Peak table for sample 2 : B73+B**

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	61.31	212	1,860.74	13,290.9	
3	61.74	217	2,901.83	20,275.2	
4	72.13	335	137.03	620.7	
5	76.03	383	17.69	70.0	
6	77.81	407	7.80	29.0	
7	113.00	10,380	75.00	10.9	Upper Marker

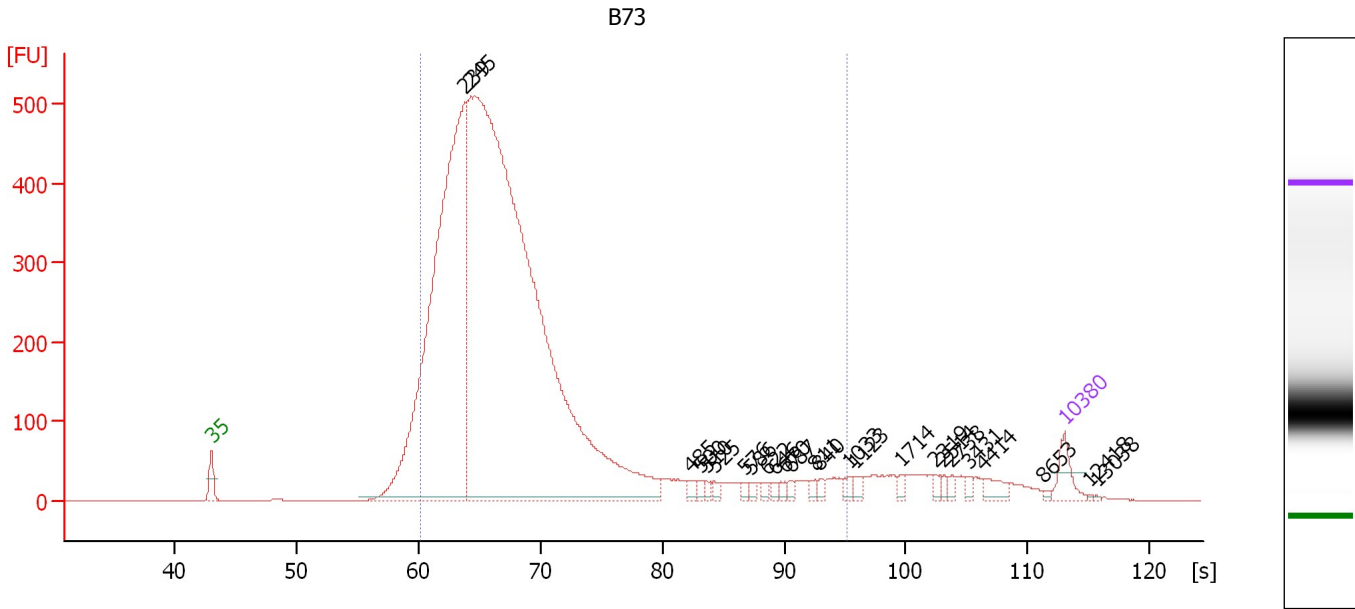
**Region table for sample 2 : B73+B**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
134	350	232	31,543.5	4,688.74	2,826.0	95	16.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : B73**

Number of peaks found: 25                      Corr. Area 1: 7,773.9  
 Noise: 0.3

**Peak table for sample 3 : B73**

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	63.81	239	3,661.36	23,175.5	
3	64.34	245	7,411.30	45,805.9	
4	82.28	485	31.46	98.2	
5	83.11	500	20.67	62.6	
6	83.60	510	19.68	58.4	
7	84.30	525	24.55	70.8	
8	86.73	576	16.80	44.2	
9	87.21	586	21.42	55.4	
10	88.58	622	21.38	52.1	
11	89.33	646	17.84	41.8	
12	90.08	670	18.31	41.4	
13	90.61	687	18.94	41.8	
14	92.55	811	22.66	42.3	
15	92.94	840	17.93	32.3	
16	95.32	1,033	24.46	35.9	
17	95.90	1,123	26.30	35.5	
18	99.64	1,714	21.19	18.7	
19	102.46	2,319	15.92	10.4	
20	103.08	2,514	15.62	9.4	
21	103.79	2,738	15.37	8.5	
22	105.15	3,431	17.06	7.5	
23	106.39	4,414	47.03	16.1	
24	111.28	8,653	6.37	1.1	
25	113.00	10,380	75.00	10.9	Upper Marker



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
Modified: 4/11/2014 4:31:14 PM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : B73**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	115.03	12,418	0.00	0.0	
27	115.64	13,038	0.00	0.0	

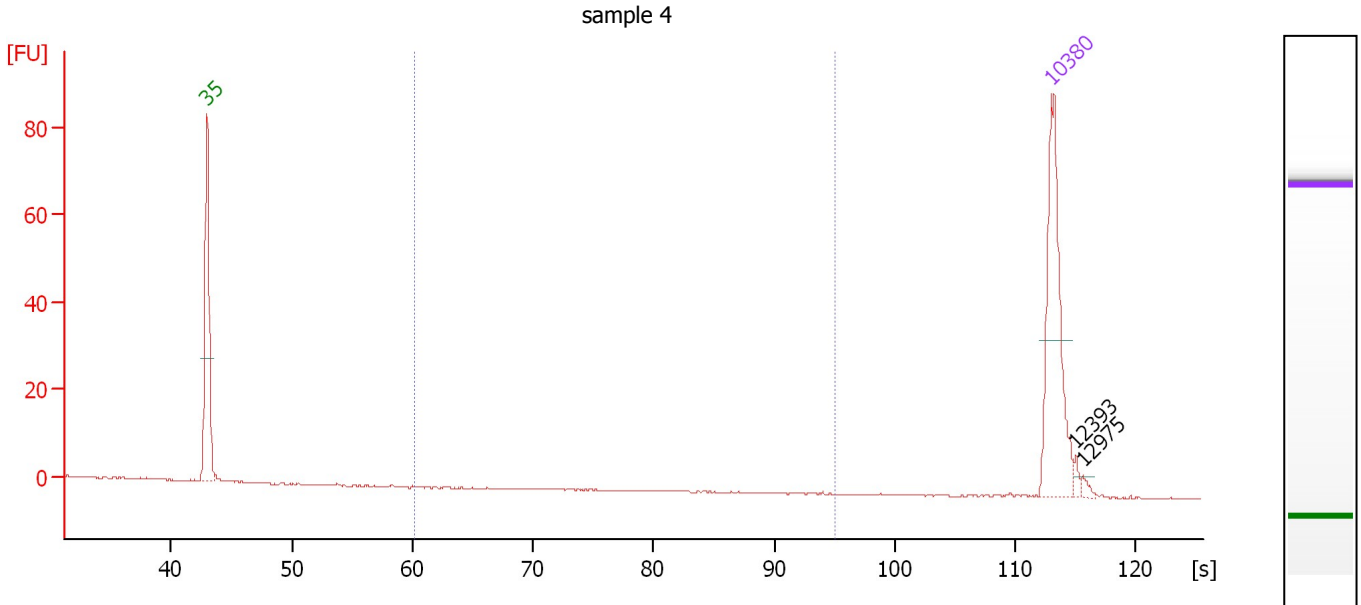
**Region table for sample 3 : B73**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	297	58,742.5	10,473.75	 7,773.9	90	38.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
 Modified: 4/11/2014 4:31:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 2                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 4 : sample 4**

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	113.00	10,380	75.00	10.9	Upper Marker
3	115.00	12,393	0.00	0.0	
4	115.58	12,975	0.00	0.0	

**Region table for sample 4 : sample 4**

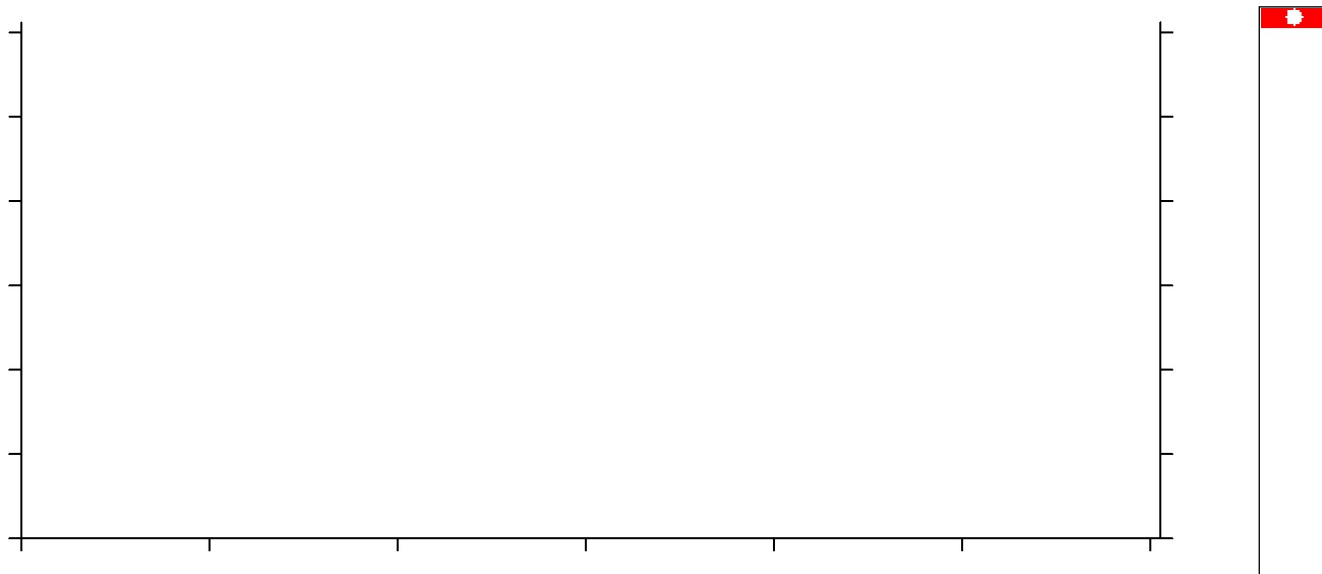
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	0	0.0	0.00	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
Modified: 4/11/2014 4:31:14 PM

**Electropherogram Summary Continued ...**

sample 5



**Setpoint Deviations for sample 5 : sample 5**

End Analysis Time Range [s] : 31.3

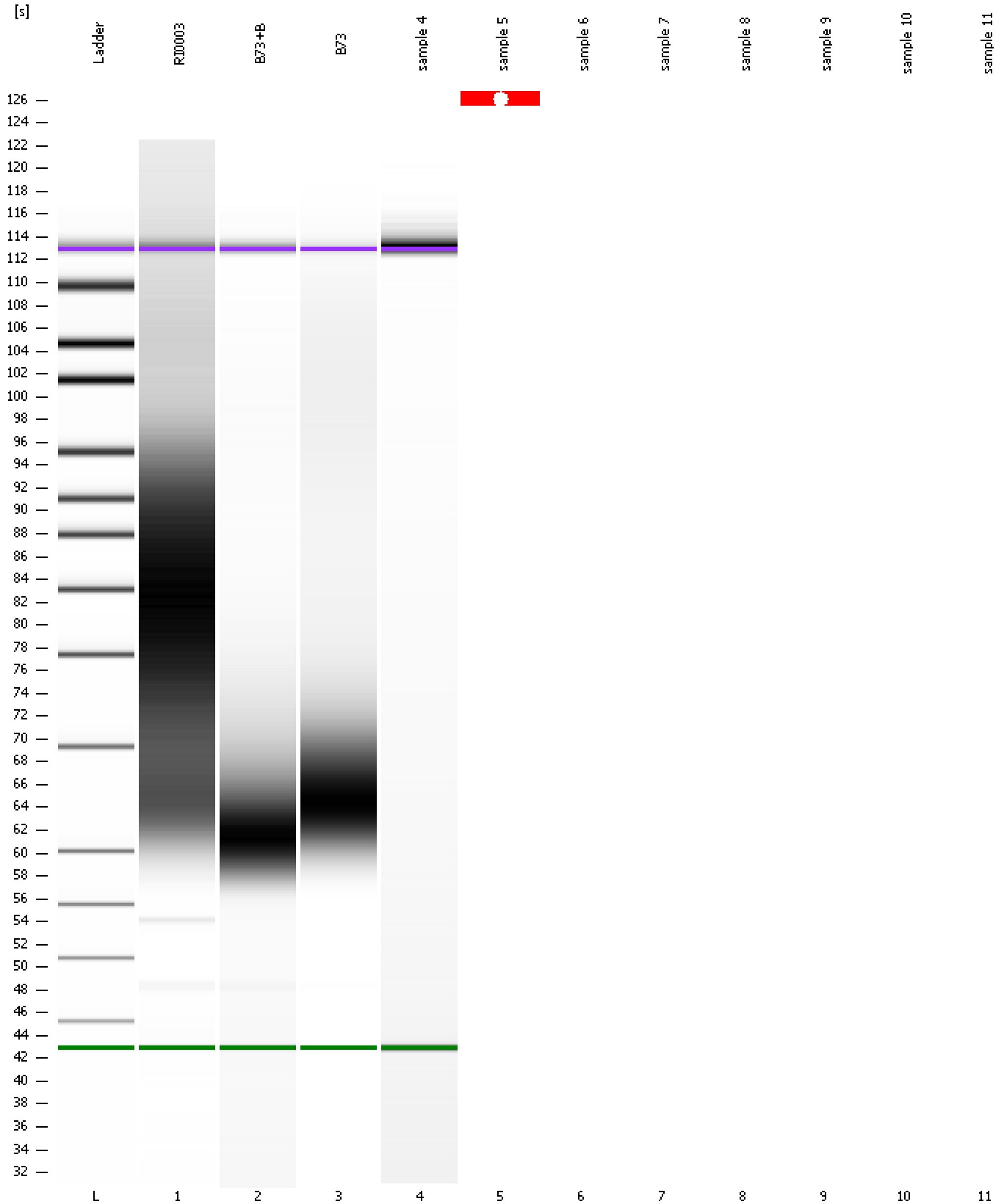
**Overall Results for sample 5 : sample 5**

Noise: 0.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
Modified: 4/11/2014 4:31:14 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
Modified: 4/11/2014 4:31:14 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.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_004.xad

Created: 4/11/2014 4:08:40 PM  
 Modified: 4/11/2014 4:31:14 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		4/11/2014 4:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-11\2014-04-11_004.xad)		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2014 4:08:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1