

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

Created: 10/9/2014 10:21:07 AM  
Modified: 10/9/2014 10:56:44 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

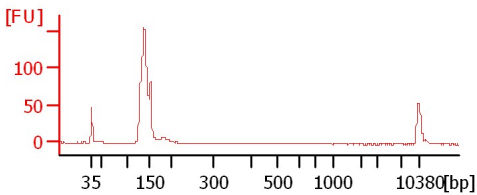
Assay Information:

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

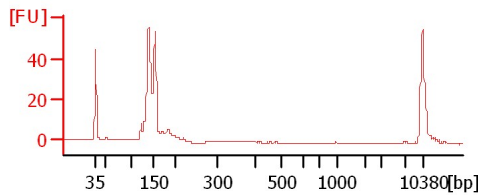
Chip Information:

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

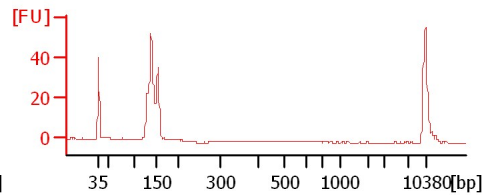
**sample 16**



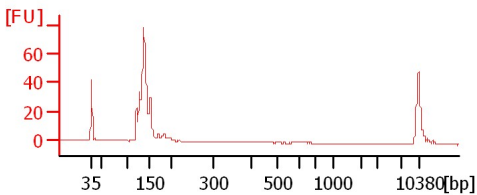
**sample 17**



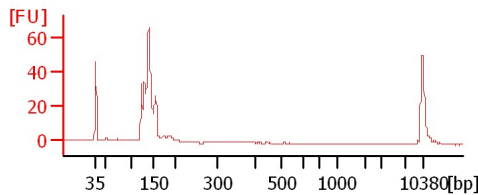
**sample 18**



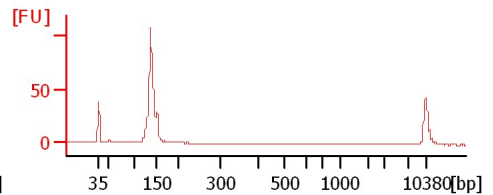
**sample 19**



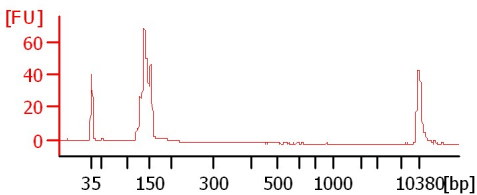
**sample 20**



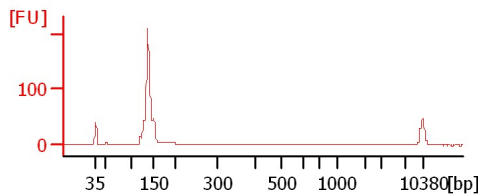
**sample 21**



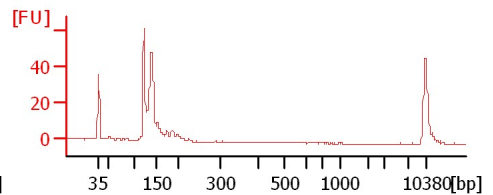
**sample 22**



**sample 23**



**sample 24**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 16		<input type="checkbox"/>	✓			
sample 17		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 21		<input type="checkbox"/>	✓			
sample 22		<input type="checkbox"/>	✓			
sample 23		<input type="checkbox"/>	✓			
sample 24		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

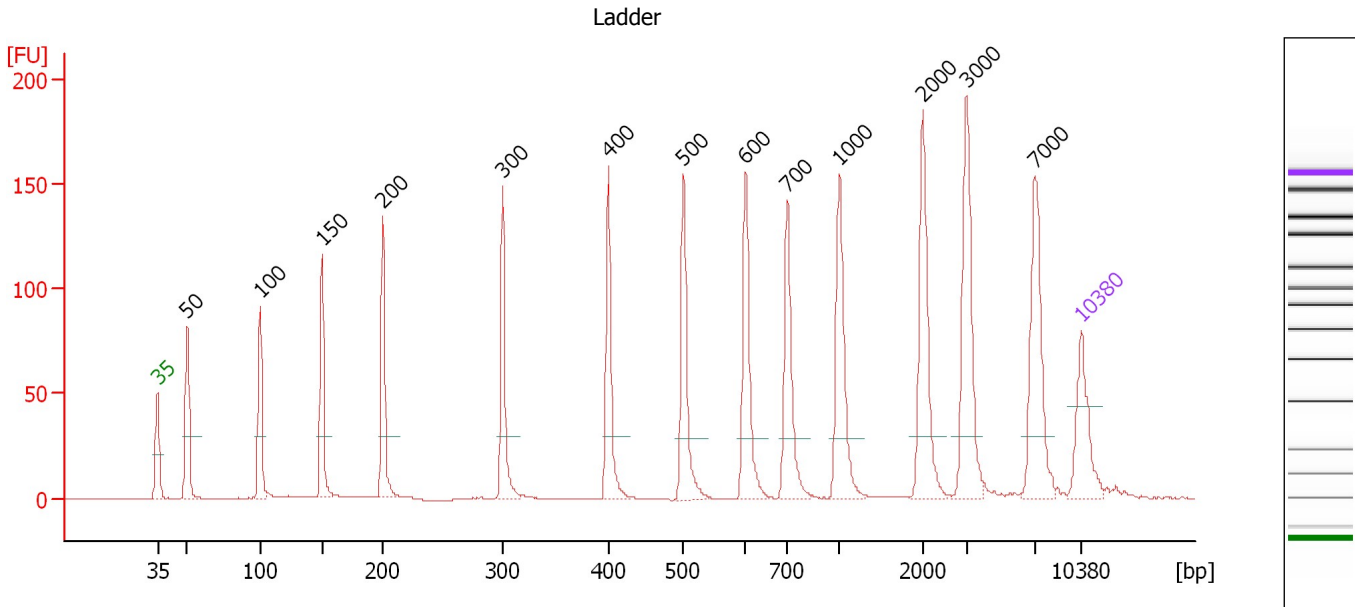
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

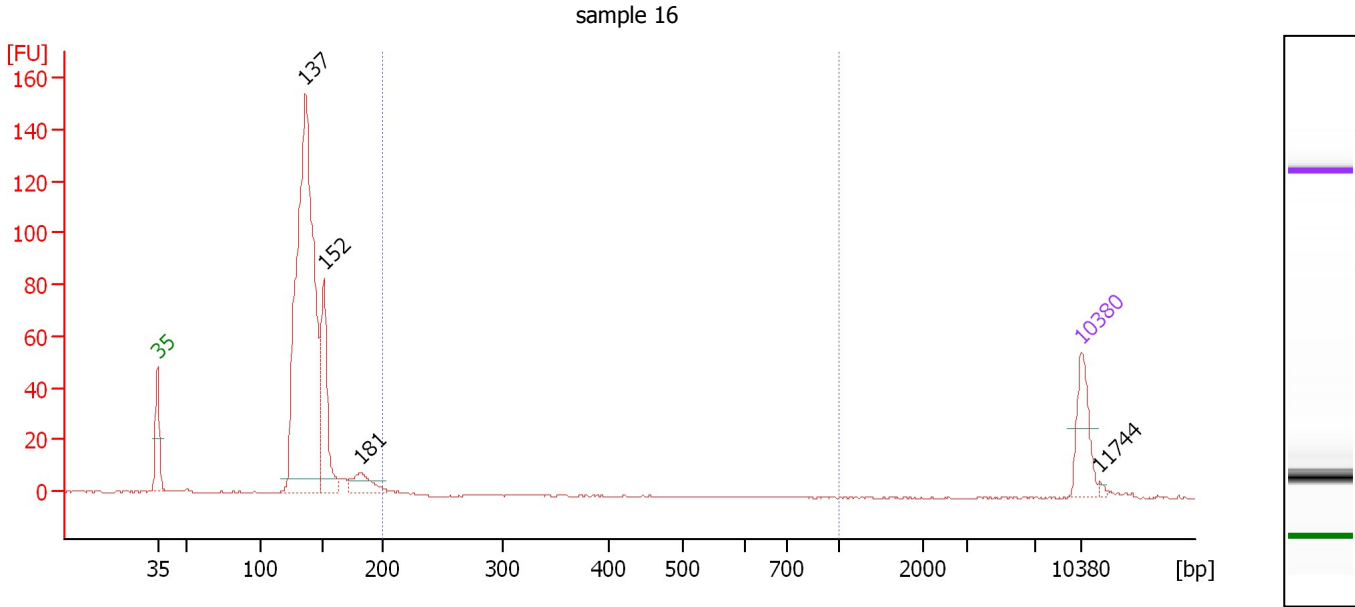
**Peak table for Ladder**

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  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 16**

Number of peaks found: 4                      Corr. Area 1: 2.6  
 Noise: 0.2

**Peak table for sample 1 : sample 16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	137	1,250.47	13,874.3	
3	152	248.19	2,475.6	
4	181	62.26	520.0	
5	10,380	75.00	10.9	Upper Marker
6	11,744	0.00	0.0	

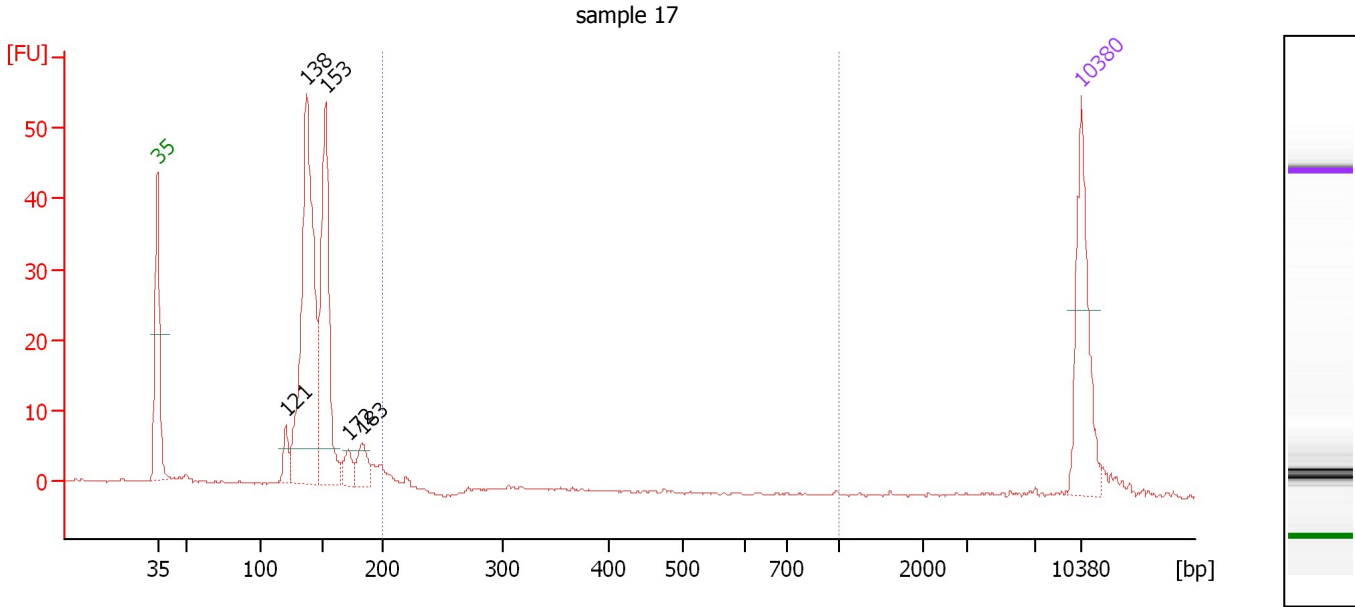
**Region table for sample 1 : sample 16**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	205	1,000	2.6	0	2.2	6.27	46.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 17**

Number of peaks found: 5                      Corr. Area 1: 4.7  
 Noise: 0.2

**Peak table for sample 2 : sample 17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	21.30	266.5	
3	138	332.53	3,663.0	
4	153	205.67	2,035.5	
5	172	18.28	161.3	
6	183	27.54	228.1	
7	10,380	75.00	10.9	Upper Marker

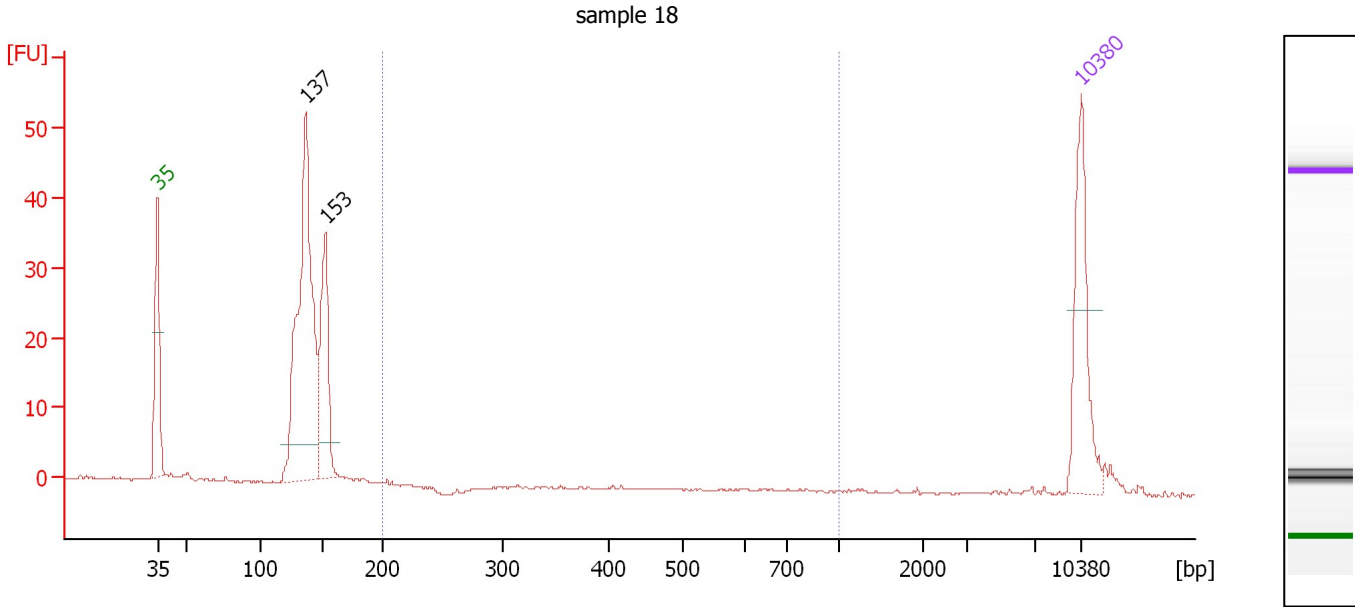
**Region table for sample 2 : sample 17**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	224	1,000	4.7	2	39.9	11.45	81.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 18**

Number of peaks found: 2                      Corr. Area 1: 0.2  
 Noise: 0.1

**Peak table for sample 3 : sample 18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	137	341.02	3,773.9	
3	153	121.52	1,202.0	
4	10,380	75.00	10.9	Upper Marker

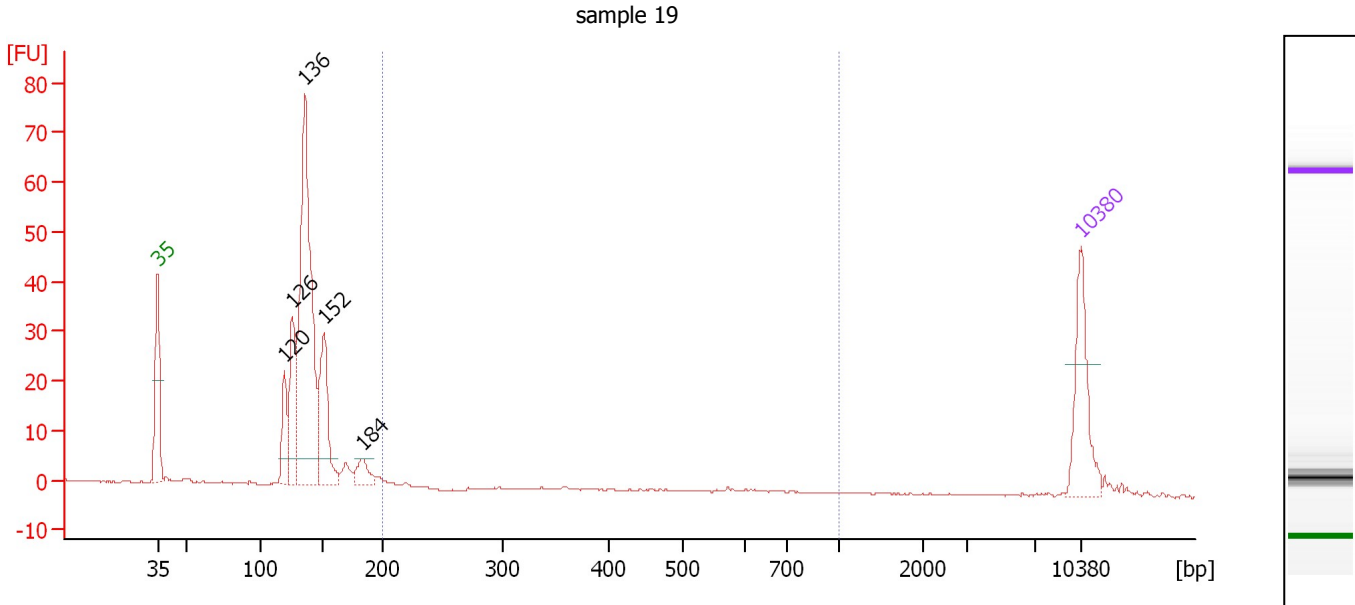
**Region table for sample 3 : sample 18**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	392	1,000	0.2	0	59.7	0.50	3.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 19**

Number of peaks found: 5                      Corr. Area 1: 1.6  
 Noise: 0.1

**Peak table for sample 4 : sample 19**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	120	55.74	705.6	
3	126	111.25	1,341.0	
4	136	450.00	5,004.7	
5	152	132.07	1,318.2	
6	184	28.31	233.5	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : sample 19**

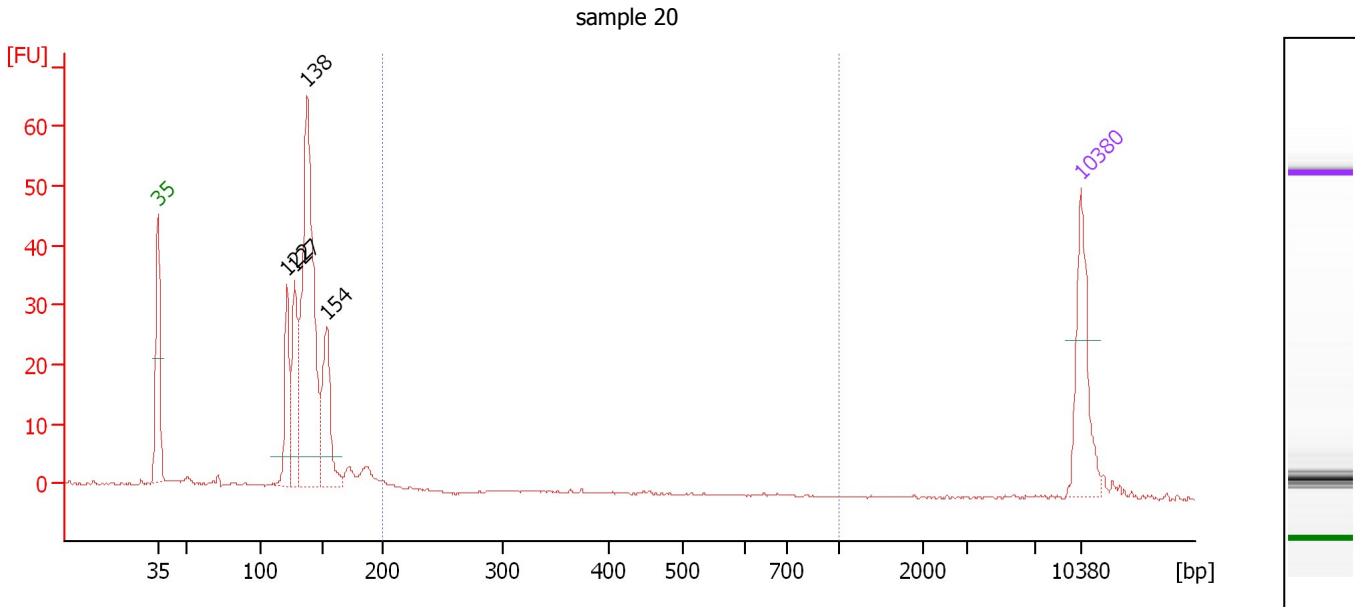
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	312	1,000	1.6	1	54.3	4.04	26.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 20**

Number of peaks found: 4                      Corr. Area 1: 1.5  
 Noise: 0.2

**Peak table for sample 5 : sample 20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	122	94.71	1,177.4	
3	127	115.18	1,369.0	
4	138	383.98	4,210.1	
5	154	115.52	1,136.3	
6	10,380	75.00	10.9	Upper Marker

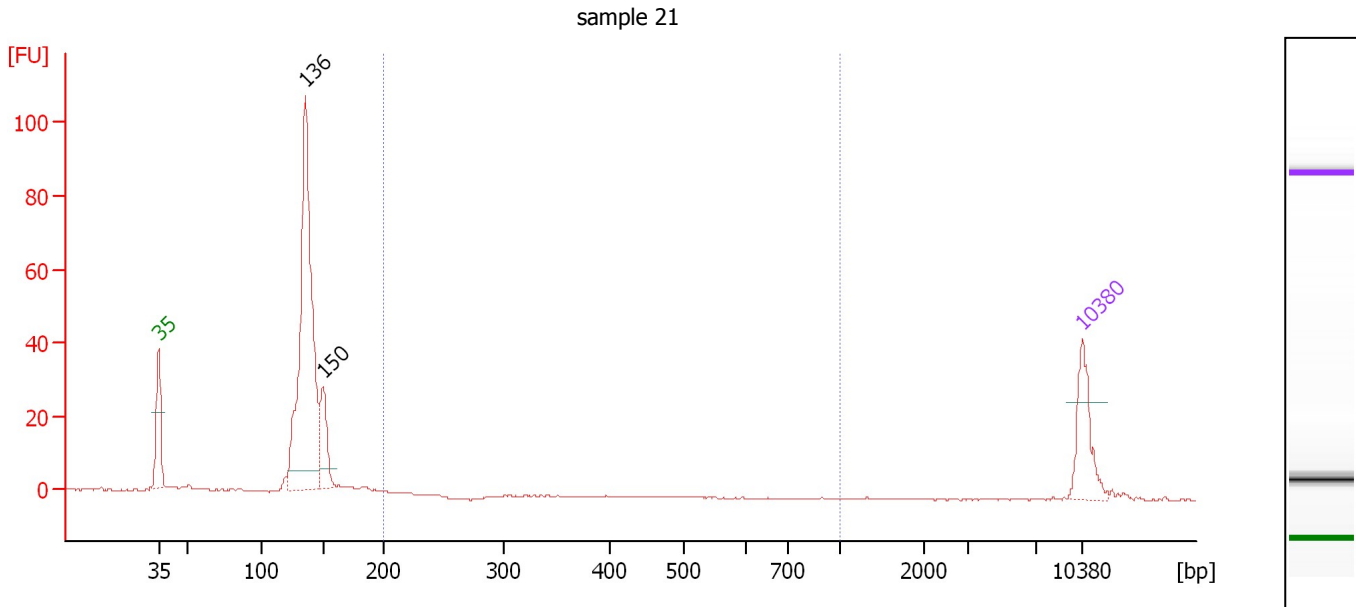
**Region table for sample 5 : sample 20**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	222	1,000	1.5	1	25.6	4.24	30.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 21**

Number of peaks found: 2                      Corr. Area 1: 0.3  
 Noise: 0.1

**Peak table for sample 6 : sample 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	702.23	7,829.6	
3	150	104.58	1,057.3	
4	10,380	75.00	10.9	Upper Marker

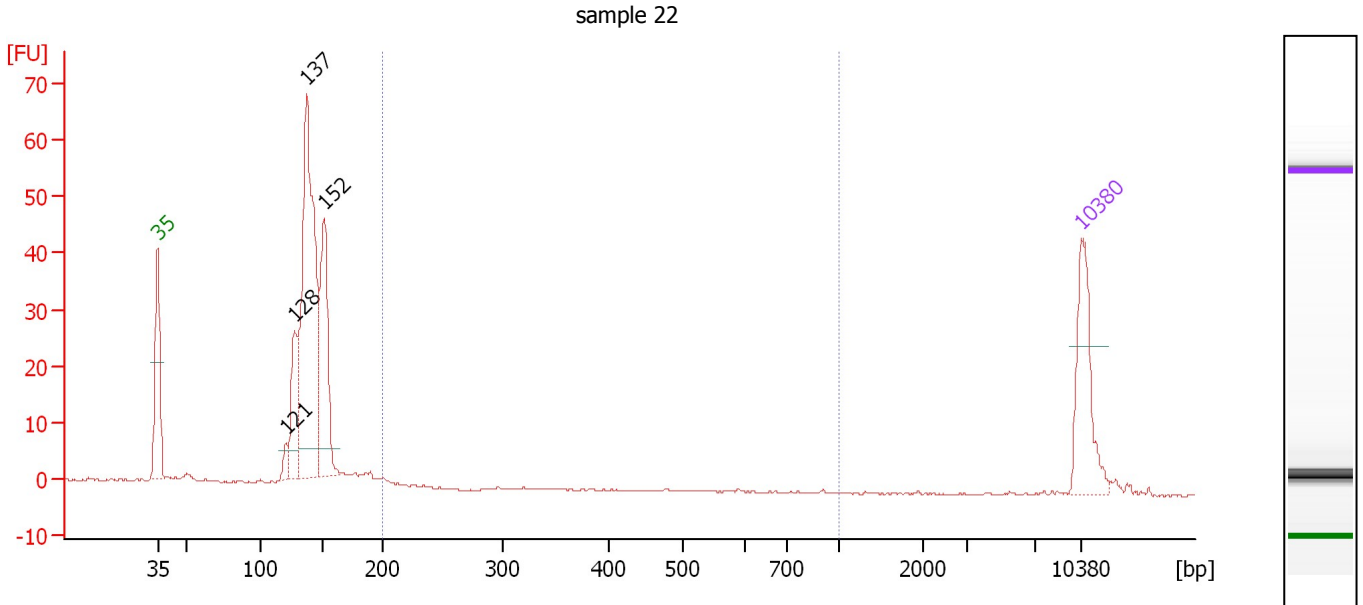
**Region table for sample 6 : sample 21**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	205	1,000	0.3	0	3.2	0.81	6.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

Created: 10/9/2014 10:21:07 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 22**

Number of peaks found: 4                      Corr. Area 1: 0.7  
 Noise: 0.1

**Peak table for sample 7 : sample 22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	14.19	178.3	
3	128	86.09	1,019.9	
4	137	414.87	4,577.9	
5	152	173.37	1,728.3	
6	10,380	75.00	10.9	Upper Marker

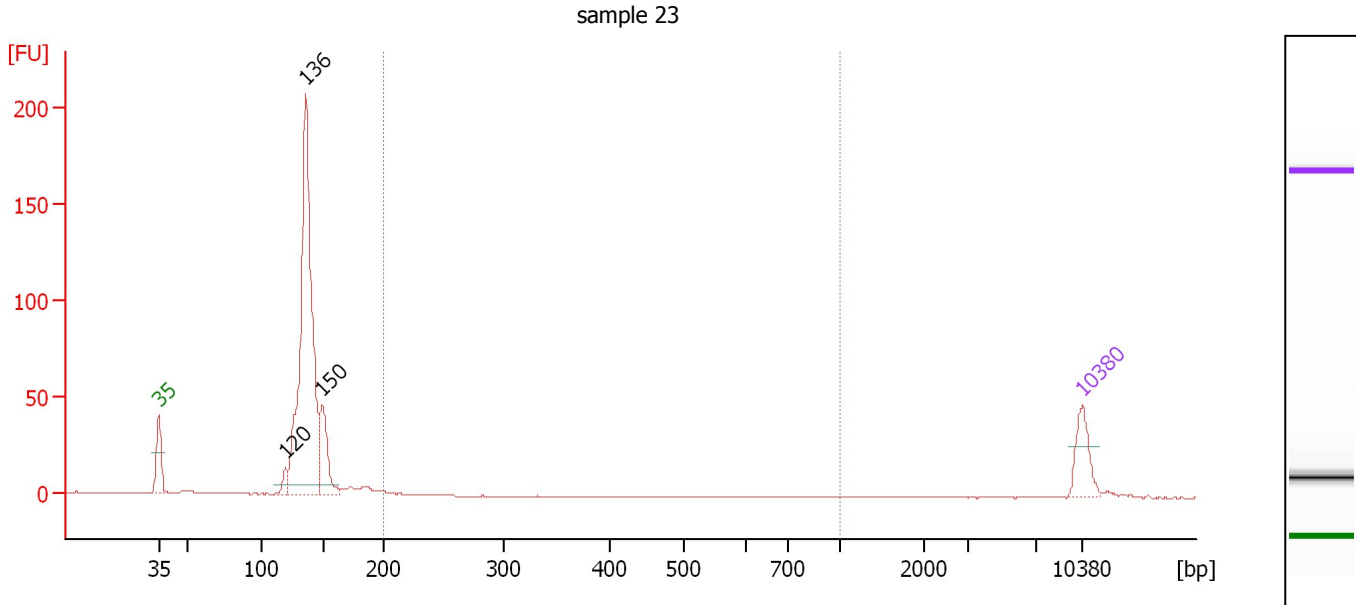
**Region table for sample 7 : sample 22**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	221	1,000	0.7	0	51.1	1.94	14.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 23**

Number of peaks found: 3                      Corr. Area 1: 1.5  
 Noise: 0.1

**Peak table for sample 8 : sample 23**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	120	35.05	444.2	
3	136	1,173.01	13,079.6	
4	150	166.26	1,684.2	
5	10,380	75.00	10.9	Upper Marker

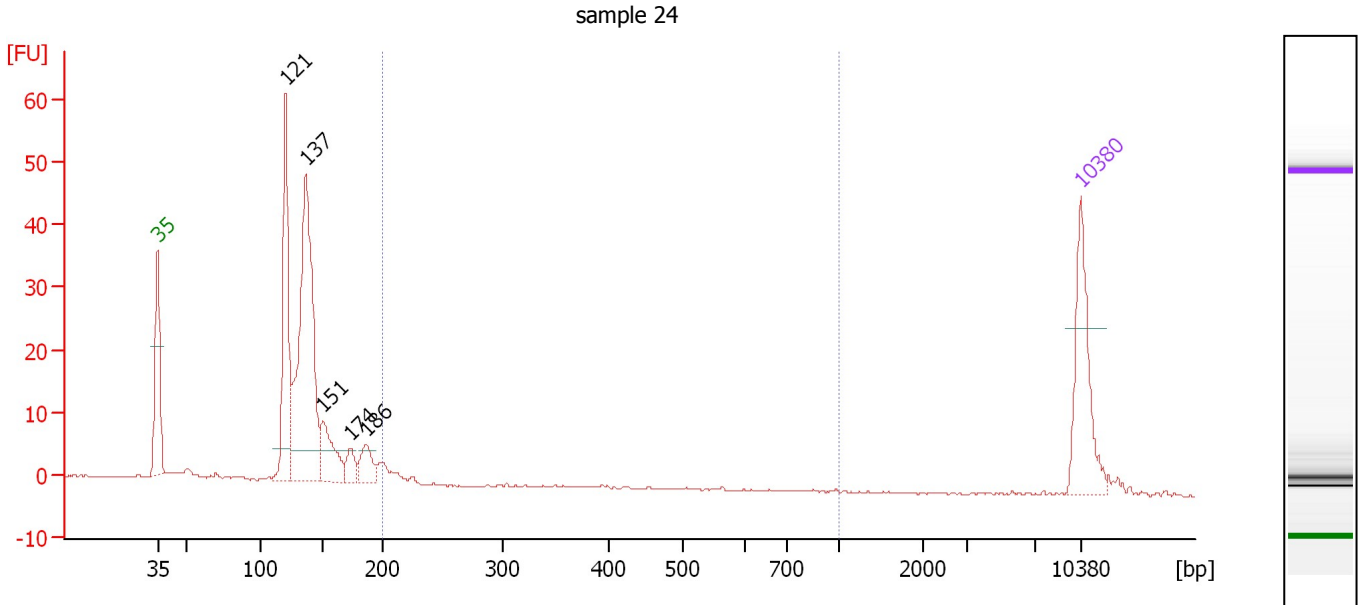
**Region table for sample 8 : sample 23**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	205	1,000	1.5	0	2.3	4.03	29.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 24**

Number of peaks found: 5                      Corr. Area 1: 4.9  
 Noise: 0.1

**Peak table for sample 9 : sample 24**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	184.91	2,324.9	
3	137	341.67	3,779.2	
4	151	64.25	643.3	
5	174	22.25	193.9	
6	186	30.75	250.2	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : sample 24**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	209	1,000	4.9	2	4.7	13.65	99.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

Created: 10/9/2014 10:21:07 AM  
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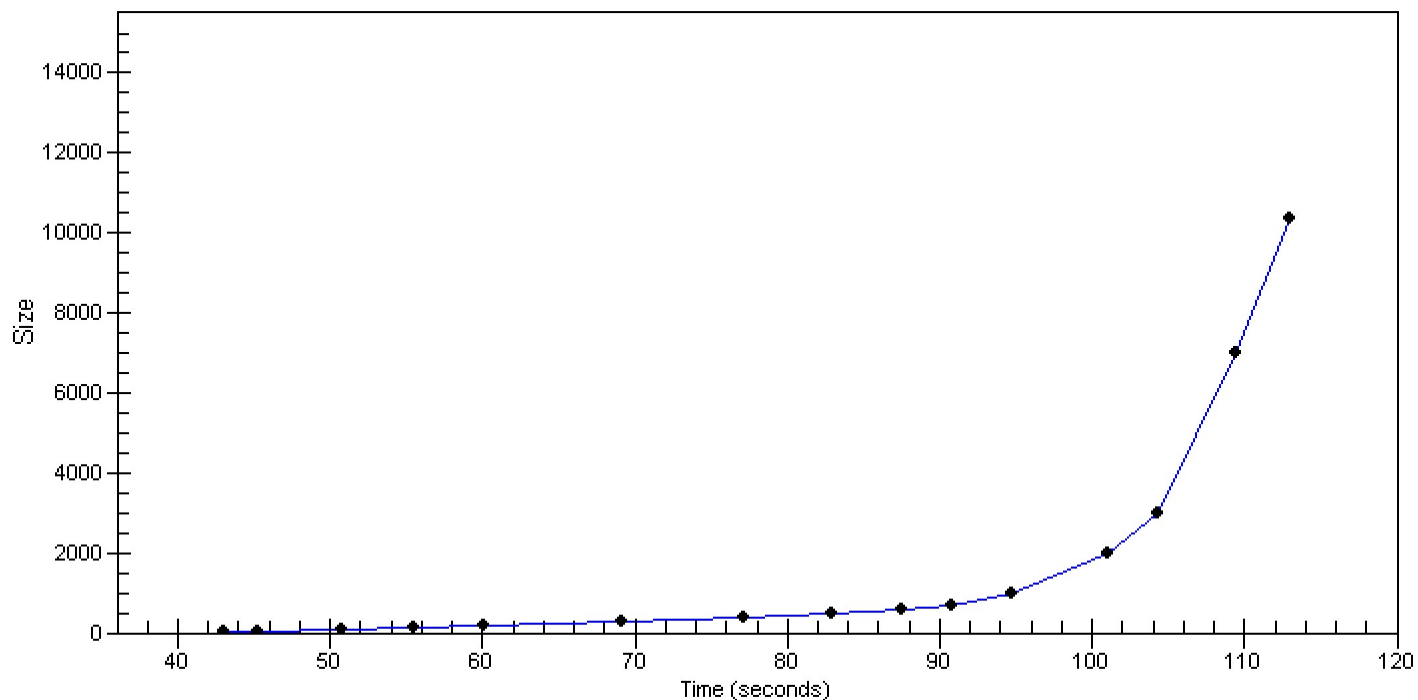
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ttings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09\_001.xad

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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.



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Created: 10/9/2014 10:21:07 AM  
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**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		10/9/2014 10:56:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-09\2014-10-09\2014-10-09_001.xad)		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/9/2014 10:21:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1