

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
Modified: 2/3/2015 4:05:31 PM

**Electrophoresis File Run Summary**

Instrument Information:

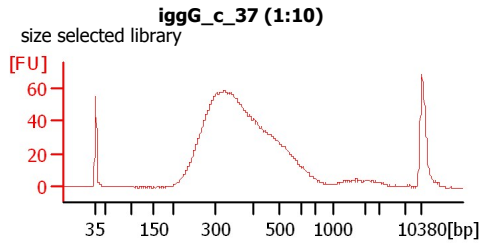
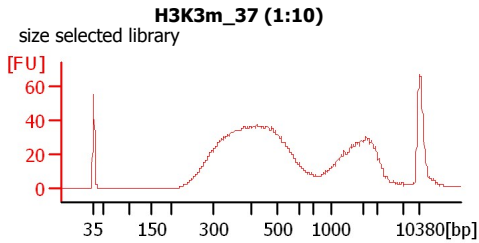
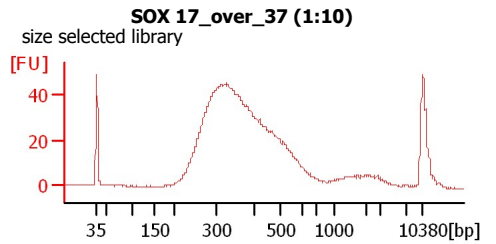
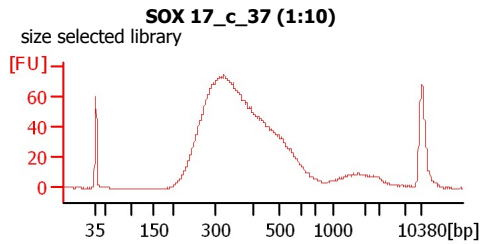
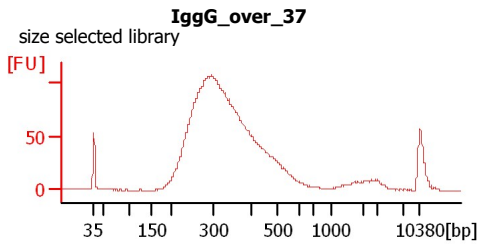
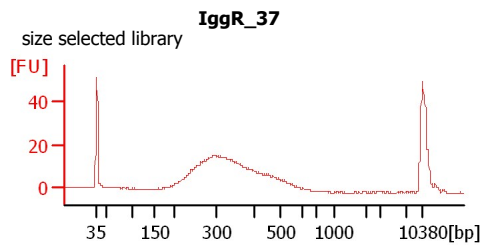
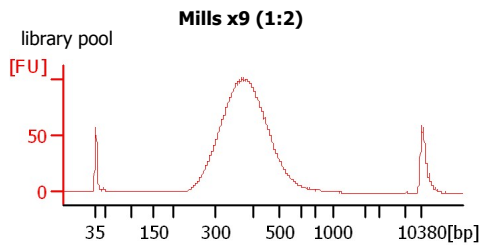
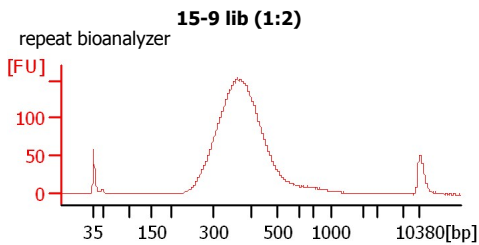
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
Modified: 2/3/2015 4:05:31 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
15-9 lib (1:2)	repeat bioanalyzer	<input type="checkbox"/>	✓			
Mills x9 (1:2)	library pool	<input type="checkbox"/>	✓			
IggR_37	size selected library	<input type="checkbox"/>	✓			
IggG_over_37	size selected library	<input type="checkbox"/>	✓			
SOX 17_c_37 (1:10)	size selected library	<input type="checkbox"/>	✓			
SOX 17_over_37 (1:10)	size selected library	<input type="checkbox"/>	✓			
H3K3m_37 (1:10)	size selected library	<input type="checkbox"/>	✓			
iggG_c_37 (1:10)	size selected library	<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\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 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

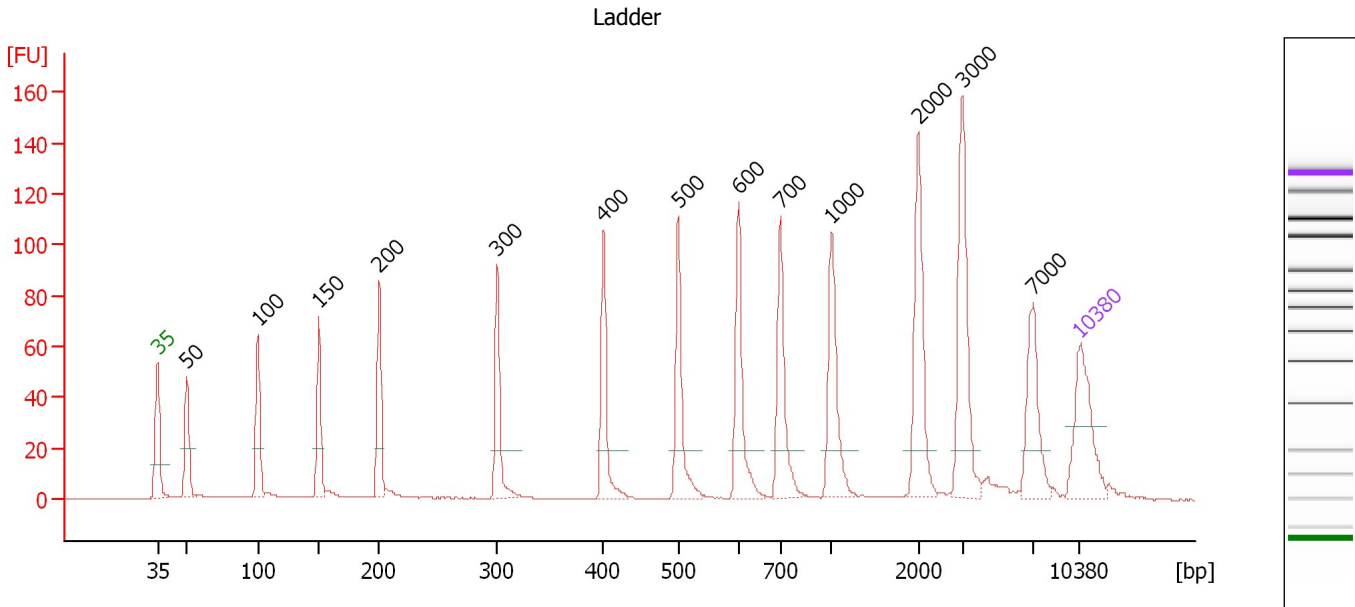
**Ladder**

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\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

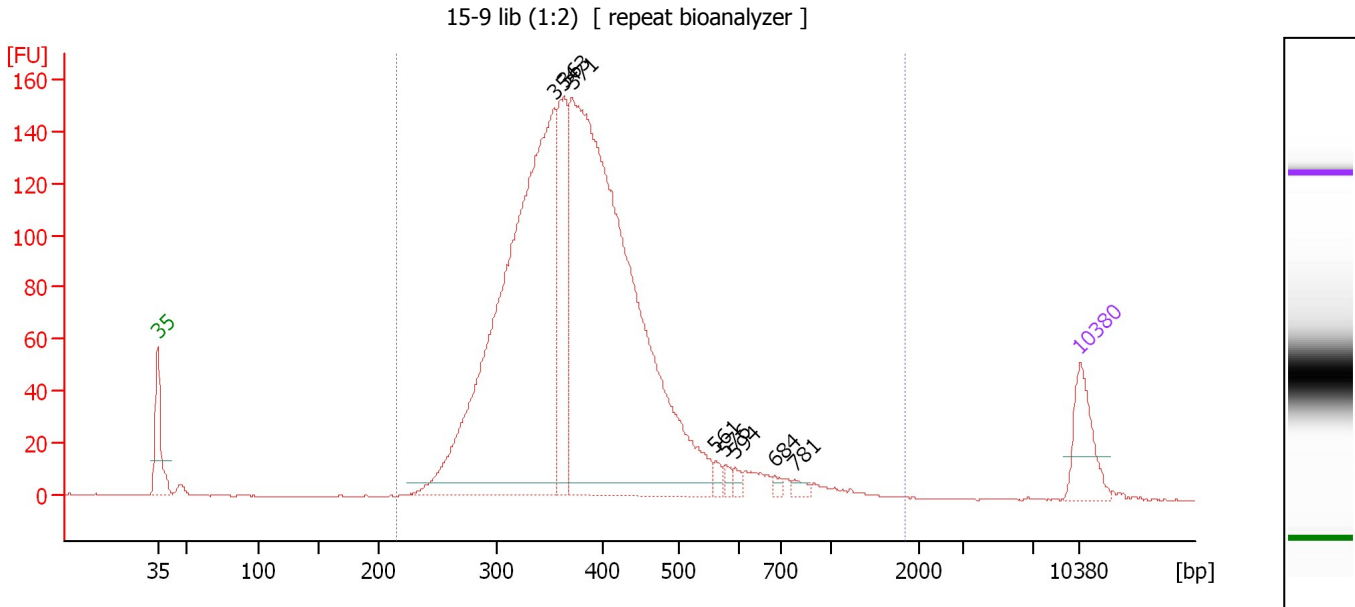
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.20
3	100	150.00	2,272.7	Ladder Peak	50.62
4	150	150.00	1,515.2	Ladder Peak	55.24
5	200	150.00	1,136.4	Ladder Peak	59.82
6	300	150.00	757.6	Ladder Peak	68.79
7	400	150.00	568.2	Ladder Peak	76.83
8	500	150.00	454.5	Ladder Peak	82.53
9	600	150.00	378.8	Ladder Peak	87.11
10	700	150.00	324.7	Ladder Peak	90.29
11	1,000	150.00	227.3	Ladder Peak	94.17
12	2,000	150.00	113.6	Ladder Peak	100.76
13	3,000	150.00	75.8	Ladder Peak	104.07
14	7,000	150.00	32.5	Ladder Peak	109.45
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 15-9 lib (1:2)**

Number of peaks found: 8                      Corr. Area 1: 2,484.6  
 Noise: 0.2

**Peak table for sample 1 : 15-9 lib (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	354	1,413.55	6,044.5		73.16
3	363	287.10	1,198.0		73.87
4	371	1,681.24	6,871.7		74.48
5	561	14.01	37.8		85.33
6	576	11.33	29.8		86.03
7	594	10.46	26.7		86.83
8	684	9.04	20.0		89.79
9	781	11.04	21.4		91.34
10	10,380	75.00	10.9	Upper Marker	113.00

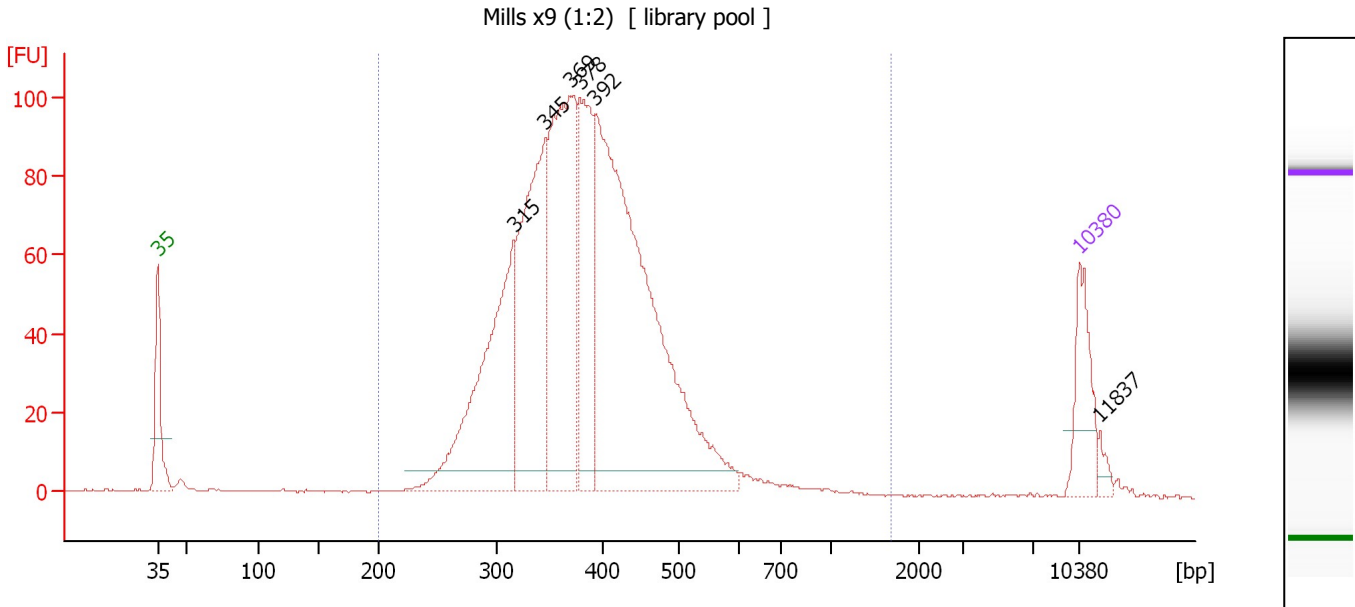
**Region table for sample 1 : 15-9 lib (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
214	391	1,838	2,484.6	99	28.2	3,534.94	14,604.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Mills x9 (1:2)**

Number of peaks found: 6                      Corr. Area 1: 1,696.8  
 Noise: 0.1

**Peak table for sample 2 : Mills x9 (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	315	434.06	2,085.1		70.03
3	345	404.35	1,774.9		72.43
4	369	480.30	1,972.2		74.34
5	378	233.87	937.6		75.06
6	392	934.81	3,616.7		76.16
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,837	0.00	0.0		114.53

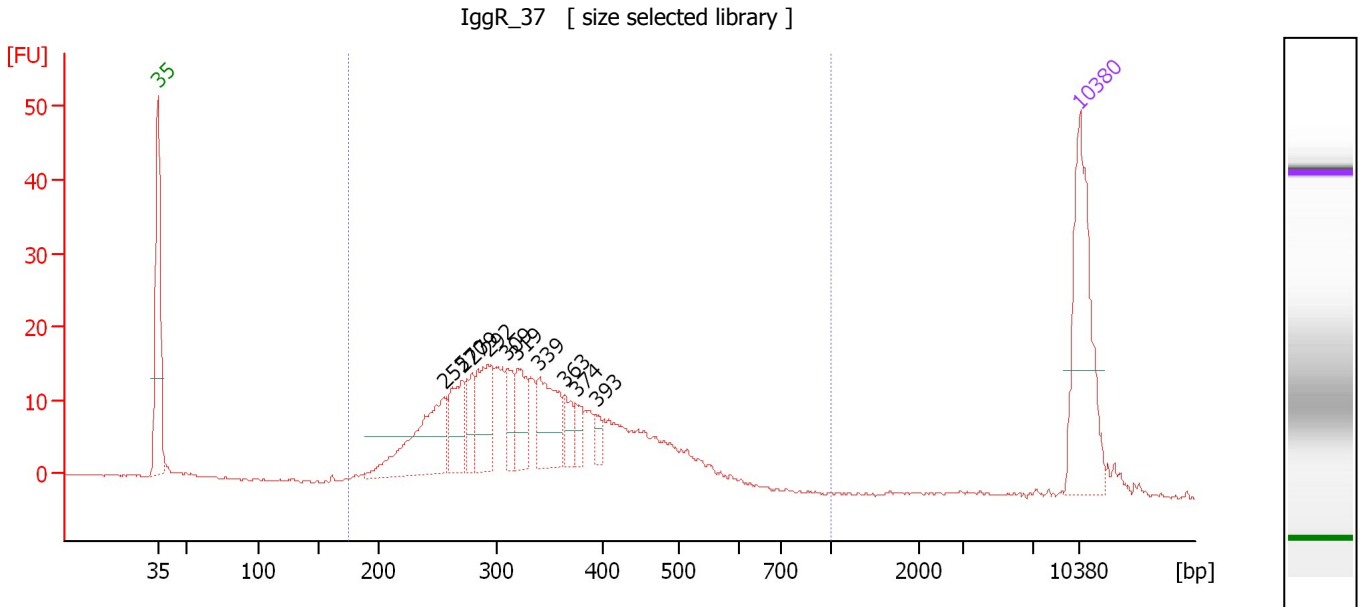
**Region table for sample 2 : Mills x9 (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	391	1,673	1,696.8	97	24.7	2,598.99	10,641.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : IggR\_37**

Number of peaks found: 10                      Corr. Area 1: 358.0  
 Noise: 0.2

**Peak table for sample 3 : IggR\_37**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	255	87.05	518.0		64.73
3	270	38.36	214.9		66.14
4	279	21.76	118.4		66.87
5	292	49.14	254.9		68.09
6	309	21.25	104.3		69.50
7	319	33.68	159.9		70.33
8	339	49.23	220.0		71.94
9	363	15.19	63.3		73.88
10	374	10.88	44.0		74.76
11	393	9.75	37.6		76.27
12	10,380	75.00	10.9	Upper Marker	113.00

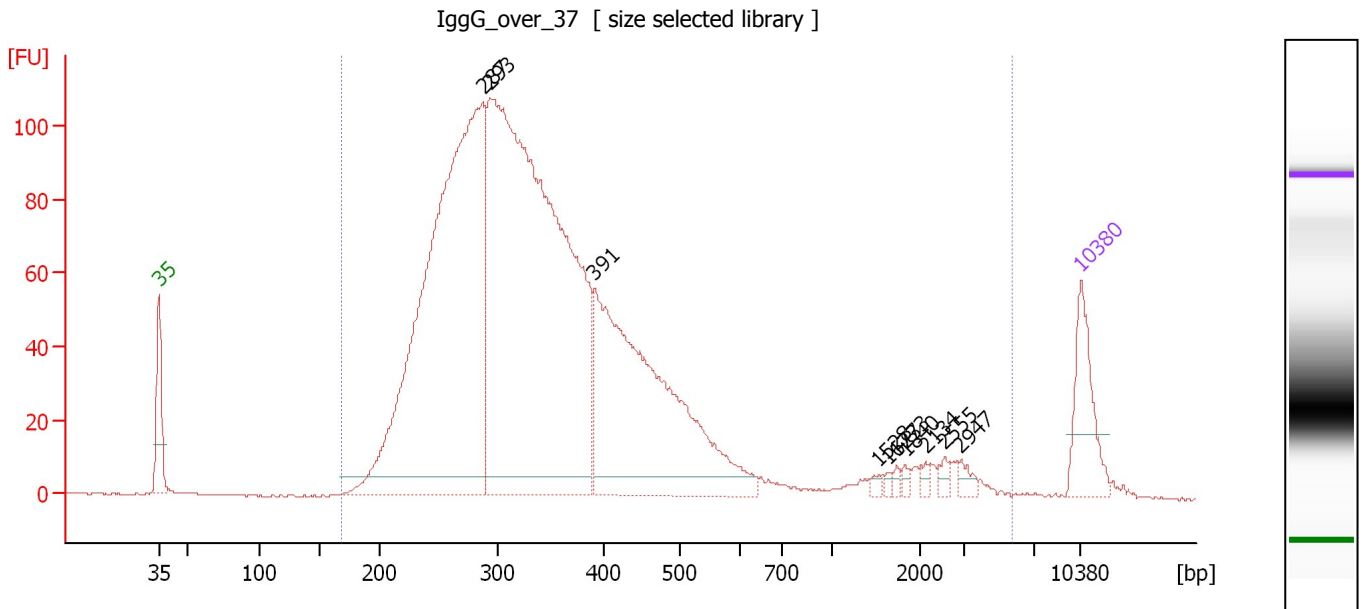
**Region table for sample 3 : IggR\_37**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
174	342	1,000	358.0	97	24.8	583.61	2,802.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : IggG over 37**

Number of peaks found: 10                      Corr. Area 1: 2,402.2  
 Noise: 0.2

**Peak table for sample 4 : IggG over 37**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	287	1,274.94	6,738.1		67.60
3	293	1,597.14	8,264.2		68.15
4	391	633.72	2,456.3		76.10
5	1,528	5.79	5.7		97.65
6	1,627	4.43	4.1		98.30
7	1,733	5.14	4.5		99.00
8	1,840	5.25	4.3		99.70
9	2,134	6.45	4.6		101.20
10	2,555	7.62	4.5		102.60
11	2,947	10.95	5.6		103.90
12	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : IggG over 37**

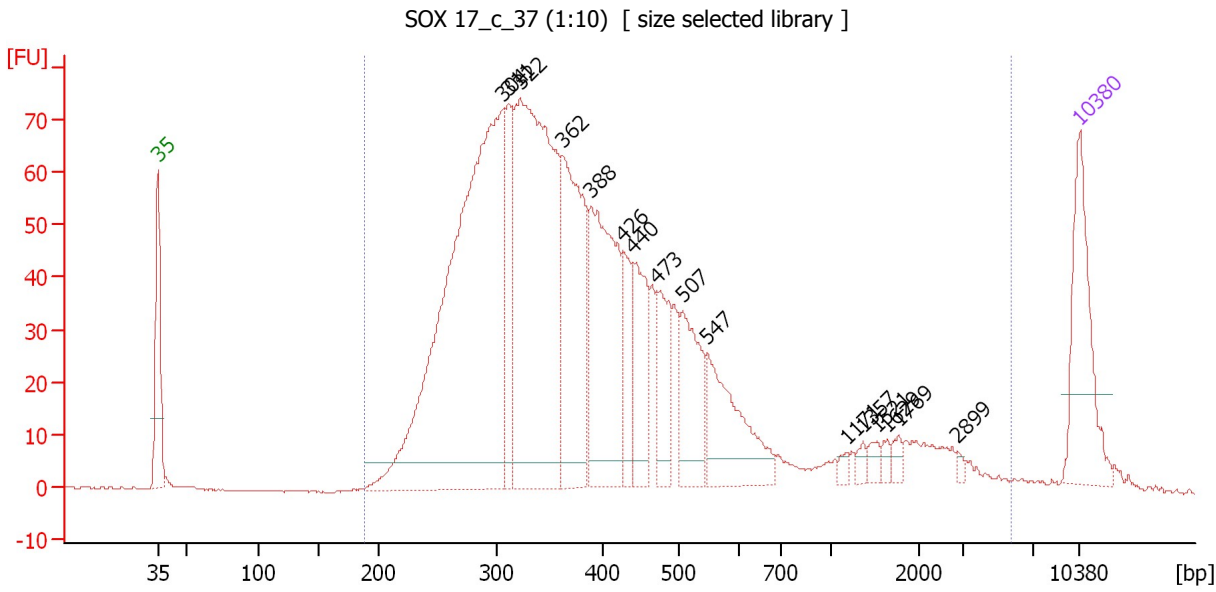
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
167	446	5,732	2,402.2	99	100.0	3,556.29	16,938.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : SOX 17 c 37 (1:10)**

Number of peaks found: 16                      Corr. Area 1: 1,843.5  
 Noise: 0.1

**Peak table for sample 5 : SOX 17 c 37 (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	304	652.21	3,246.4		69.15
3	311	90.33	440.4		69.66
4	322	445.14	2,093.1		70.58
5	362	192.56	806.6		73.75
6	388	195.57	762.9		75.90
7	426	53.22	189.3		78.31
8	440	76.46	263.1		79.13
9	473	55.26	177.2		80.97
10	507	79.22	236.7		82.86
11	547	96.05	265.9		84.70
12	1,171	4.64	6.0		95.30
13	1,357	5.75	6.4		96.52
14	1,521	6.84	6.8		97.60
15	1,629	5.44	5.1		98.31
16	1,769	6.31	5.4		99.24
17	2,899	2.72	1.4		103.74
18	10,380	75.00	10.9	Upper Marker	113.00

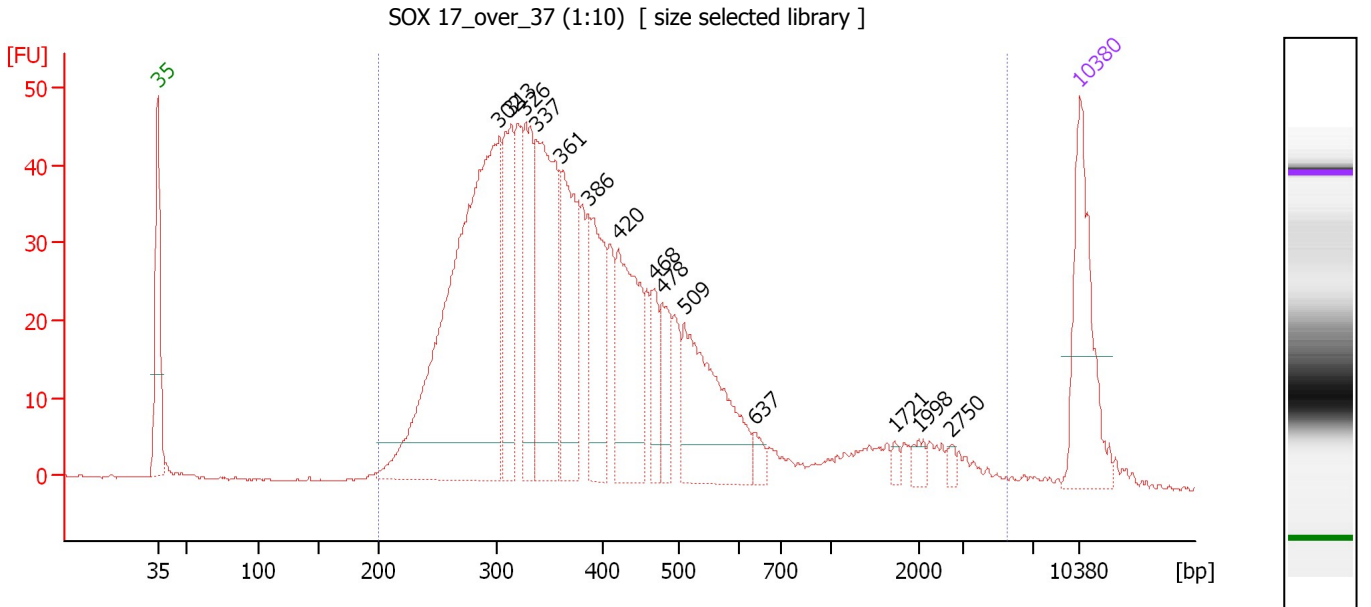
**Region table for sample 5 : SOX 17 c 37 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
187	530	5,719	1,843.5	98	100.0	2,211.70	9,394.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : SOX 17 over 37 (1:10)**

Number of peaks found: 14                      Corr. Area 1: 1,118.0  
 Noise: 0.1

**Peak table for sample 6 : SOX 17 over 37 (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	302	484.11	2,431.9		68.92
3	313	107.68	520.8		69.86
4	326	99.18	460.6		70.91
5	337	175.89	791.6		71.74
6	361	114.95	482.9		73.67
7	386	96.35	378.2		75.70
8	420	118.48	426.9		78.00
9	468	32.86	106.4		80.71
10	478	36.98	117.2		81.29
11	509	129.48	385.3		82.96
12	637	9.54	22.7		88.28
13	1,721	4.38	3.9		98.92
14	1,998	7.26	5.5		100.74
15	2,750	3.93	2.2		103.25
16	10,380	75.00	10.9	Upper Marker	113.00

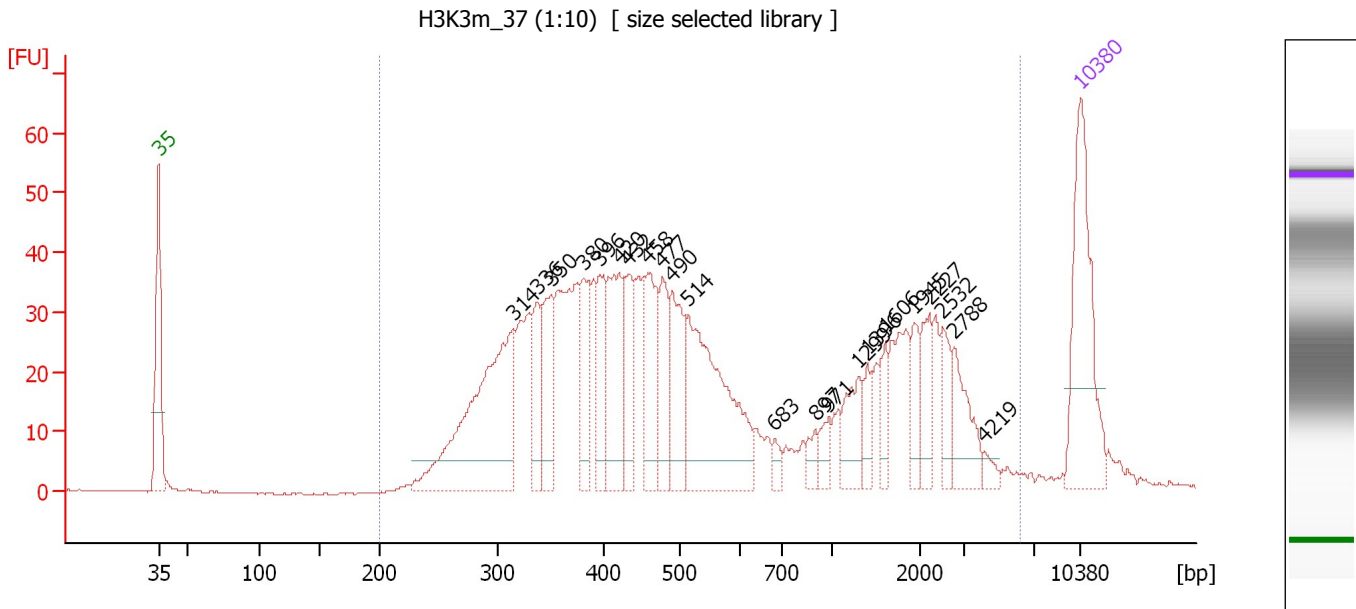
**Region table for sample 6 : SOX 17 over 37 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	519	5,567	1,118.0	98	100.0	1,759.92	7,475.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : H3K3m\_37 (1:10)**

Number of peaks found: 22                      Corr. Area 1: 1,194.2  
 Noise: 0.1

**Peak table for sample 7 : H3K3m\_37 (1:10)**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	314	183.93	887.7		69.91
3	336	40.21	181.1		71.72
4	350	52.24	226.3		72.79
5	380	44.45	177.2		75.23
6	396	37.62	143.9		76.51
7	420	71.00	255.8		78.00
8	432	42.23	148.2		78.64
9	458	57.10	189.0		80.13
10	477	41.50	131.7		81.24
11	490	49.28	152.2		81.99
12	514	138.58	408.7		83.16
13	683	6.92	15.3		89.76
14	897	8.82	14.9		92.84
15	971	9.71	15.1		93.80
16	1,299	27.83	32.5		96.14
17	1,396	12.96	14.1		96.78
18	1,606	14.52	13.7		98.16
19	1,945	17.31	13.5		100.39
20	2,227	20.21	13.8		101.51
21	2,532	15.91	9.5		102.52
22	2,788	29.32	15.9		103.37
23	4,219	5.02	1.8		105.71
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**

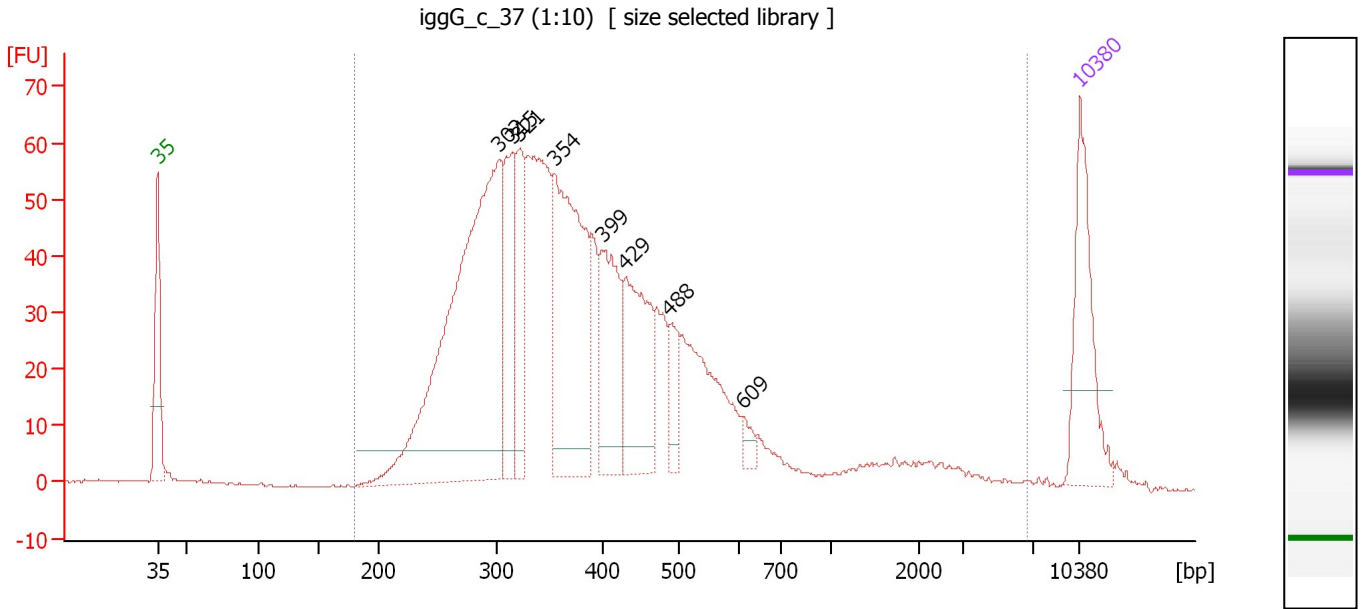
... Region table for sample 7 : H3K3m 37 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
200	921	6,219	1,194.2	96	100.0	1,331.51	4,399.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
 Modified: 2/3/2015 4:05:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : iggG c 37 (1:10)**

Number of peaks found: 8                      Corr. Area 1: 1,420.2  
 Noise: 0.2

**Peak table for sample 8 : iggG c 37 (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	302	492.58	2,474.9		68.92
3	315	100.01	481.1		70.00
4	321	82.01	387.1		70.48
5	354	238.87	1,022.8		73.12
6	399	102.78	390.5		76.73
7	429	118.86	419.3		78.51
8	488	30.42	94.4		81.85
9	609	10.48	26.1		87.40
10	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 : iggG c 37 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	501	6,654	1,420.2	98	100.0	1,799.92	7,669.9	Blue

---

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
Modified: 2/3/2015 4:05:31 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad

Created: 2/3/2015 3:32:19 PM  
Modified: 2/3/2015 4:05:31 PM

**Invalid Samples**

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 Created: 2/3/2015 3:32:19 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03\_005.xad Modified: 2/3/2015 4:05:31 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		2/3/2015 4:05:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-03\2015-02-03_005.xad)		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/3/2015 3:32:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1