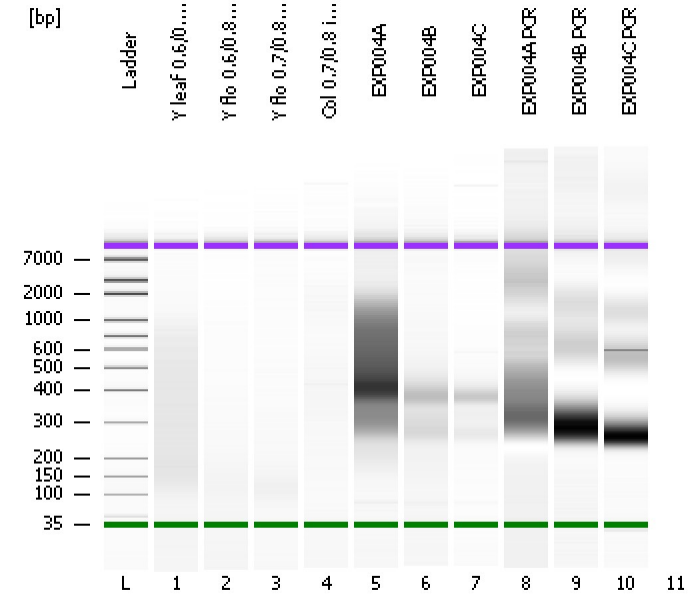
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 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

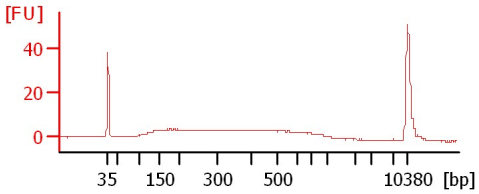
Chip Information:

Chip Lot #:

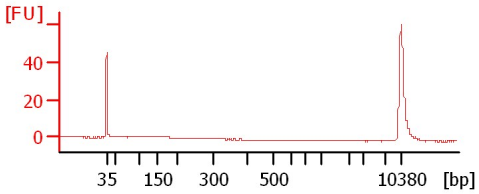
Reagent Kit Lot #:

Chip Comments:

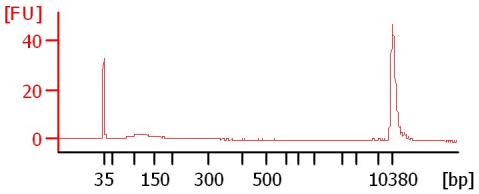
Y leaf 0.6/0.8 input dil10



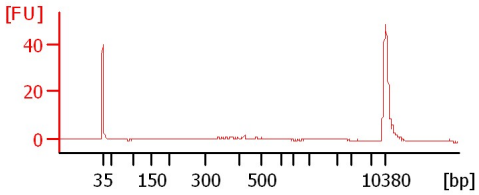
Y flo 0.6/0.8 input dil10



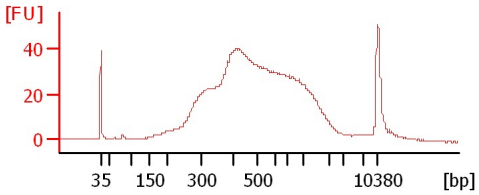
Y flo 0.7/0.8 input dil10



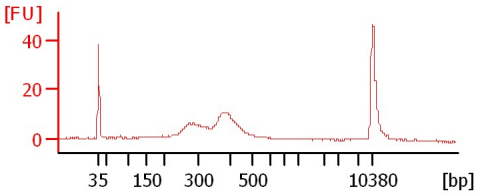
Col 0.7/0.8 input dil10



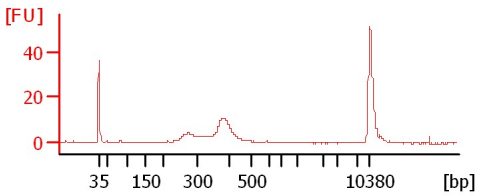
EXP004A



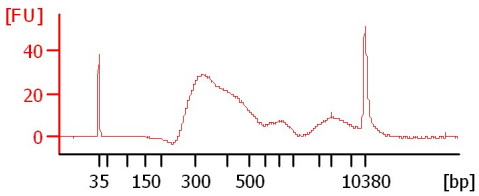
EXP004B



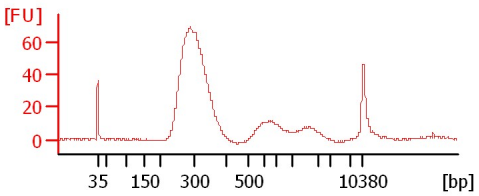
EXP004C



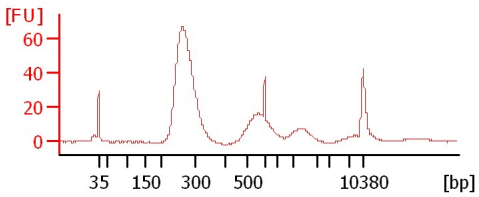
EXP004A PCR



EXP004B PCR



EXP004C PCR



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Y leaf 0.6/0.8 input dil10		☐	✔			
Y flo 0.6/0.8 input dil10		☐	✔			
Y flo 0.7/0.8 input dil10		☐	✔			
Col 0.7/0.8 input dil10		☐	✔			
EXP004A		☐	✔			
EXP004B		☐	✔			
EXP004C		☐	✔			
EXP004A PCR		☐	✔			
EXP004B PCR		☐	✔			
EXP004C PCR		☐	✔			
		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

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

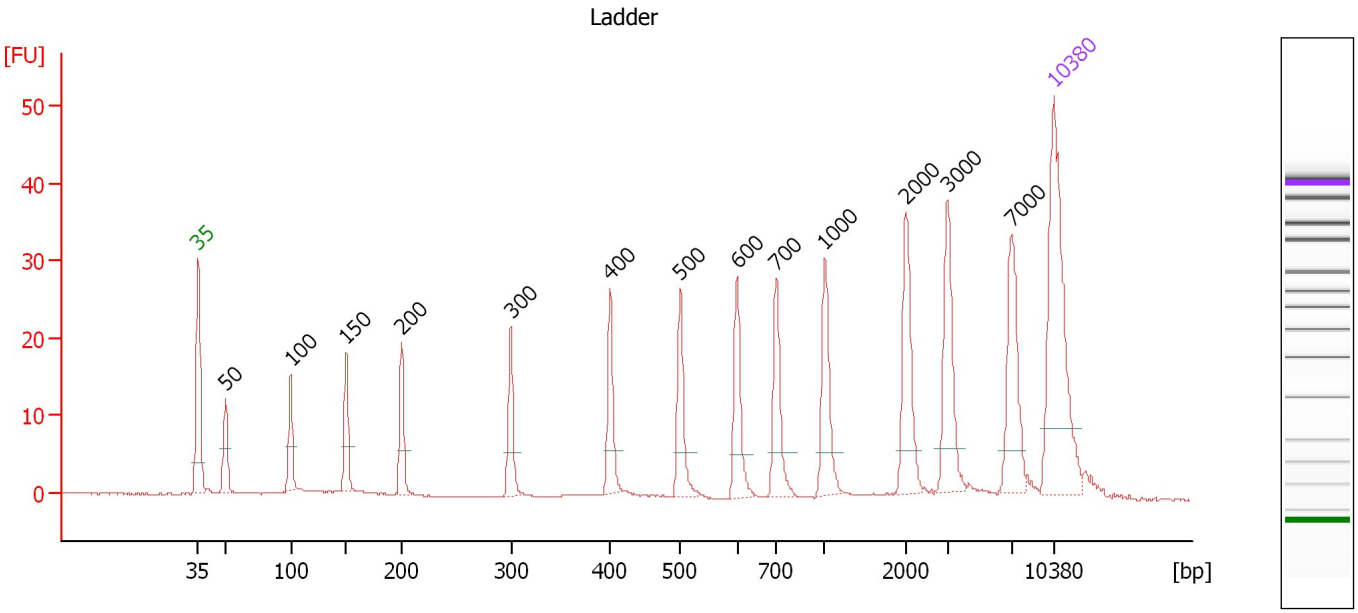
Ladder

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\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

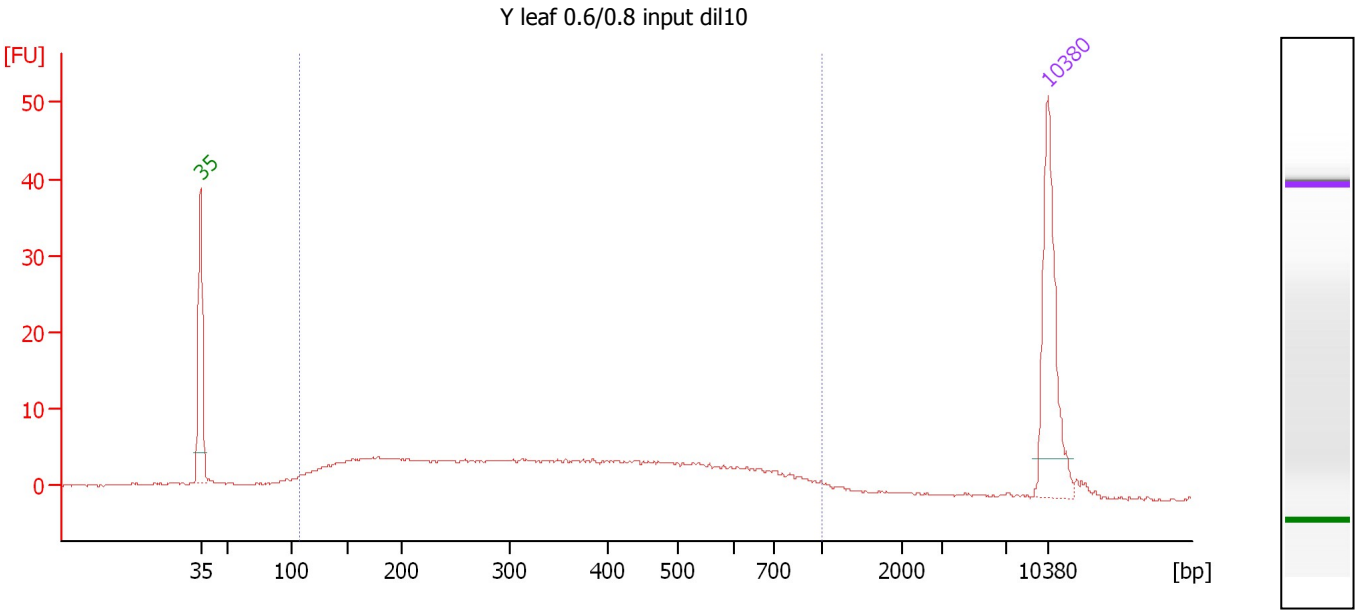
Peak table for Ladder

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\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Y leaf 0.6/0.8 input dil10

Height Threshold [FU] : 2

Overall Results for sample 1 : Y leaf 0.6/0.8 input dil10

Number of peaks found:	0	Corr. Area 1:	232.8
Noise:	0.1		

Peak table for sample 1 : Y leaf 0.6/0.8 input dil10

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

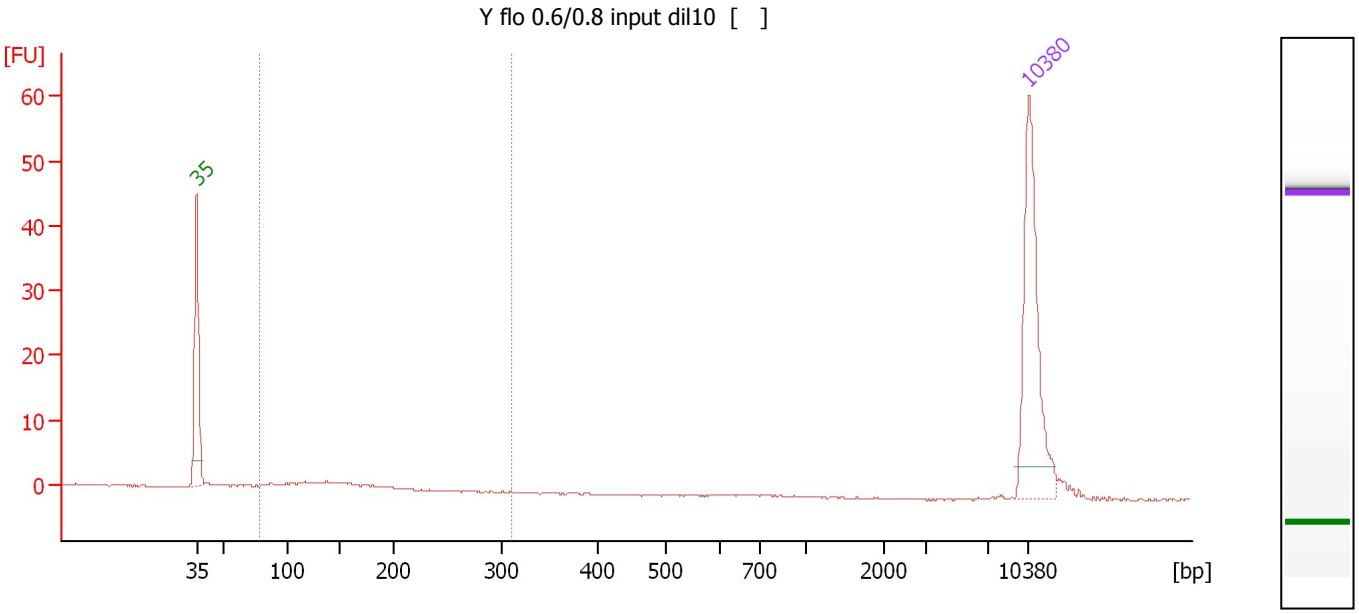
Region table for sample 1 : Y leaf 0.6/0.8 input dil10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
107	2,901.1	377	489.04	1,000	232.8	88	49.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Y flo 0.6/0.8 input dil10

Number of peaks found:	0	Corr. Area 1:	14.6
Noise:	0.1		

Peak table for sample 2 : Y flo 0.6/0.8 input dil10

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

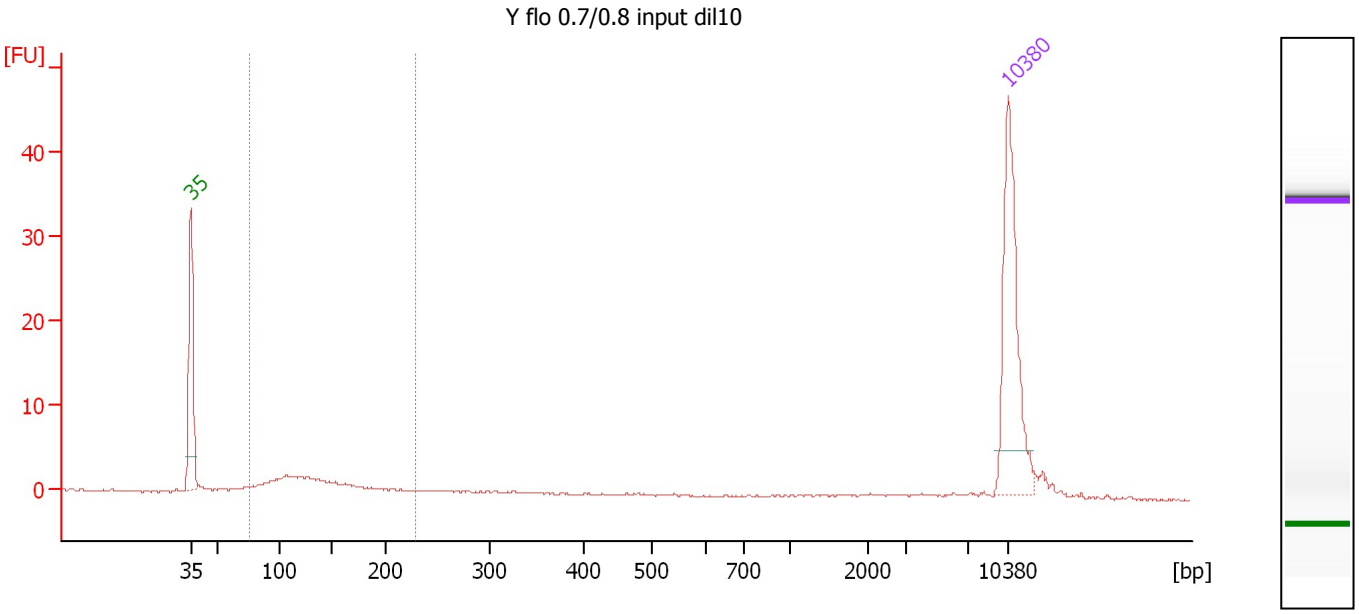
Region table for sample 2 : Y flo 0.6/0.8 input dil10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
79	339.3	137	28.64	311	14.6	63	23.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Y flo 0.7/0.8 input dil10

Number of peaks found:	0	Corr. Area 1:	24.4
Noise:	0.1		

Peak table for sample 3 : Y flo 0.7/0.8 input dil10

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

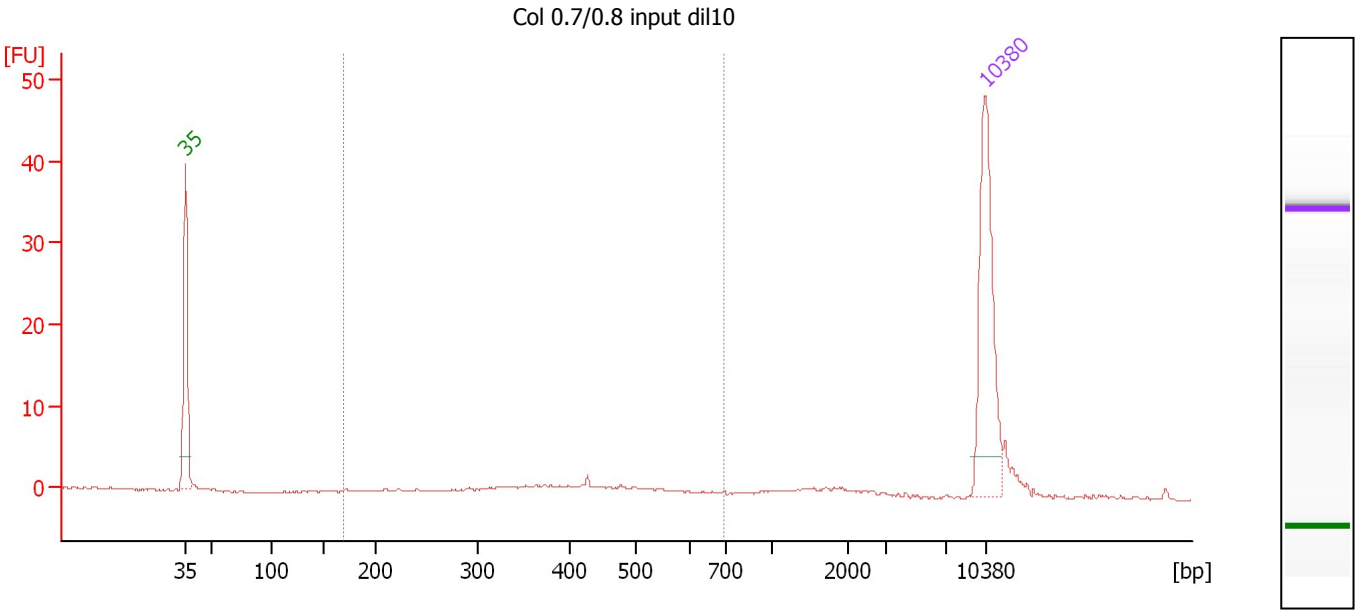
Region table for sample 3 : Y flo 0.7/0.8 input dil10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
77	784.0	132	63.61	229	24.4	65	25.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Col 0.7/0.8 input dil10

Height Threshold [FU] : 10

Overall Results for sample 4 : Col 0.7/0.8 input dil10

Number of peaks found:	0	Corr. Area 1:	22.5
Noise:	0.1		

Peak table for sample 4 : Col 0.7/0.8 input dil10

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

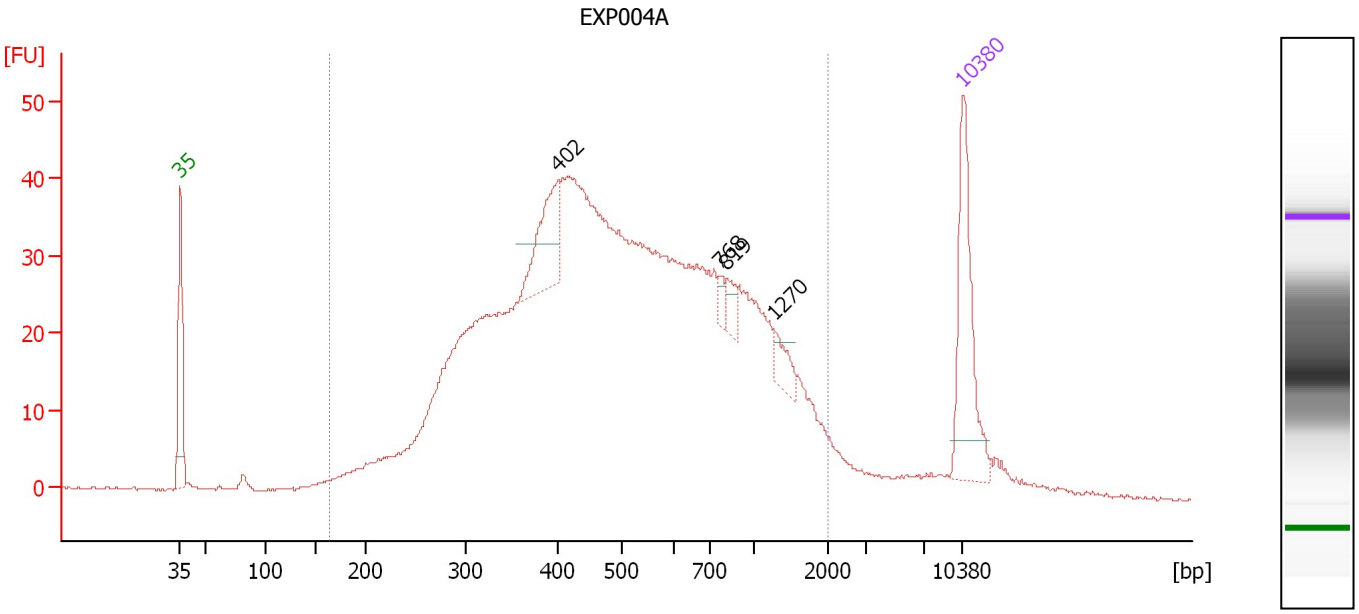
Region table for sample 4 : Col 0.7/0.8 input dil10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
169	166.5	417	41.40	695	22.5	52	25.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EXP004A

Number of peaks found:	4	Corr. Area 1:	1,269.7
Noise:	0.2		

Peak table for sample 5 : EXP004A

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	402	63.50	239.3	
3	768	6.94	13.7	
4	819	12.52	23.2	
5	1,270	16.03	19.1	
6	10,380	75.00	10.9	Upper Marker

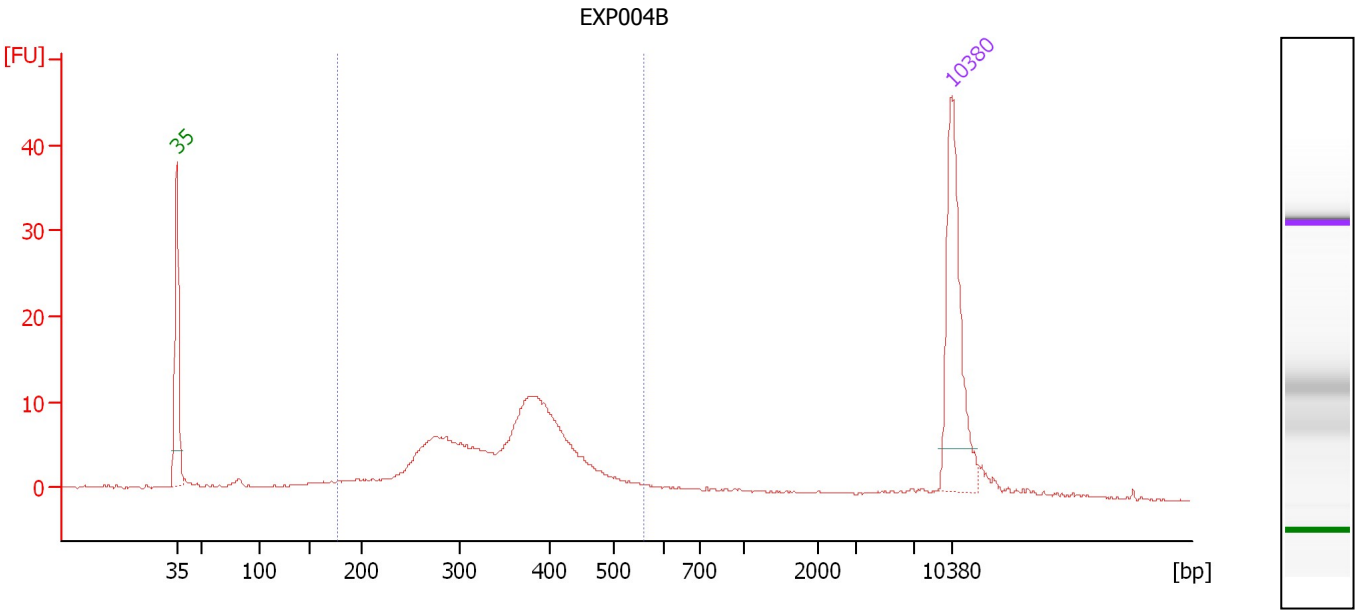
Region table for sample 5 : EXP004A

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
163	7,527.3	596	2,152.36	1,989	1,269.7	95	58.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : EXP004B

Height Threshold [FU] : 2

Overall Results for sample 6 : EXP004B

Number of peaks found:	0	Corr. Area 1:	175.1
Noise:	0.1		

Peak table for sample 6 : EXP004B

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

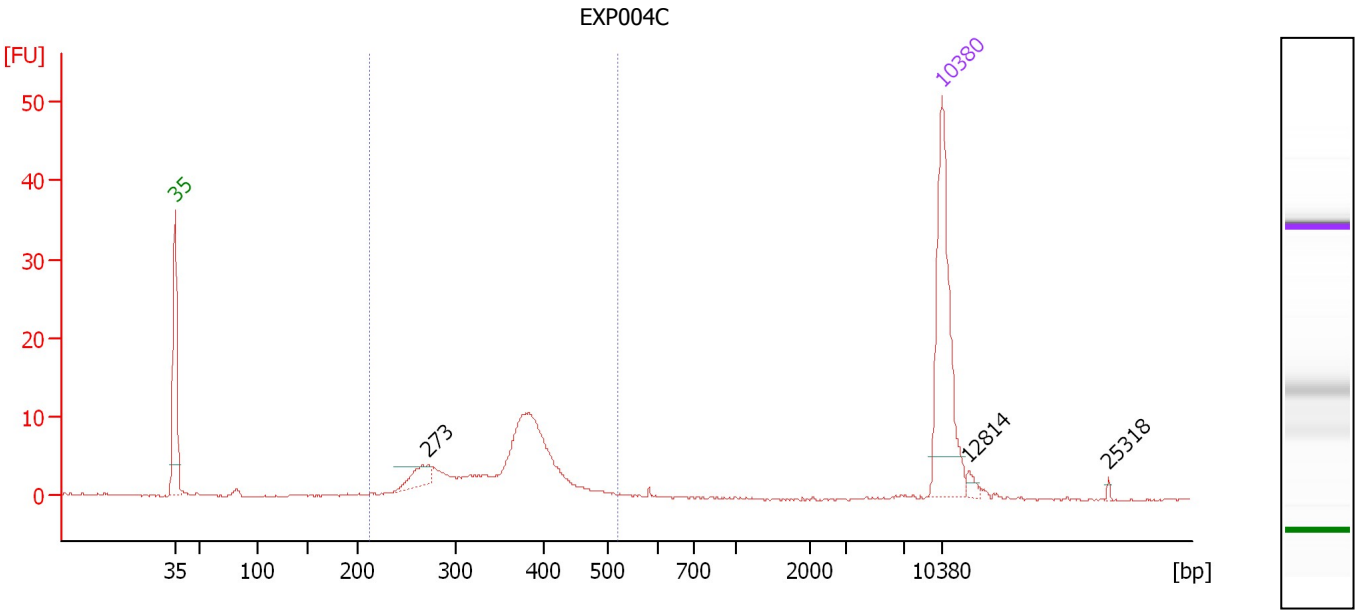
Region table for sample 6 : EXP004B

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
178	1,508.7	353	326.80	559	175.1	82	21.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : EXP004C

Height Threshold [FU] : 2

Overall Results for sample 7 : EXP004C

Number of peaks found:	3	Corr. Area 1:	99.2
Noise:	0.1		

Peak table for sample 7 : EXP004C

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	15.91	88.4	
3	10,380	75.00	10.9	Upper Marker
4	12,814	0.00	0.0	
5	25,318	0.00	0.0	

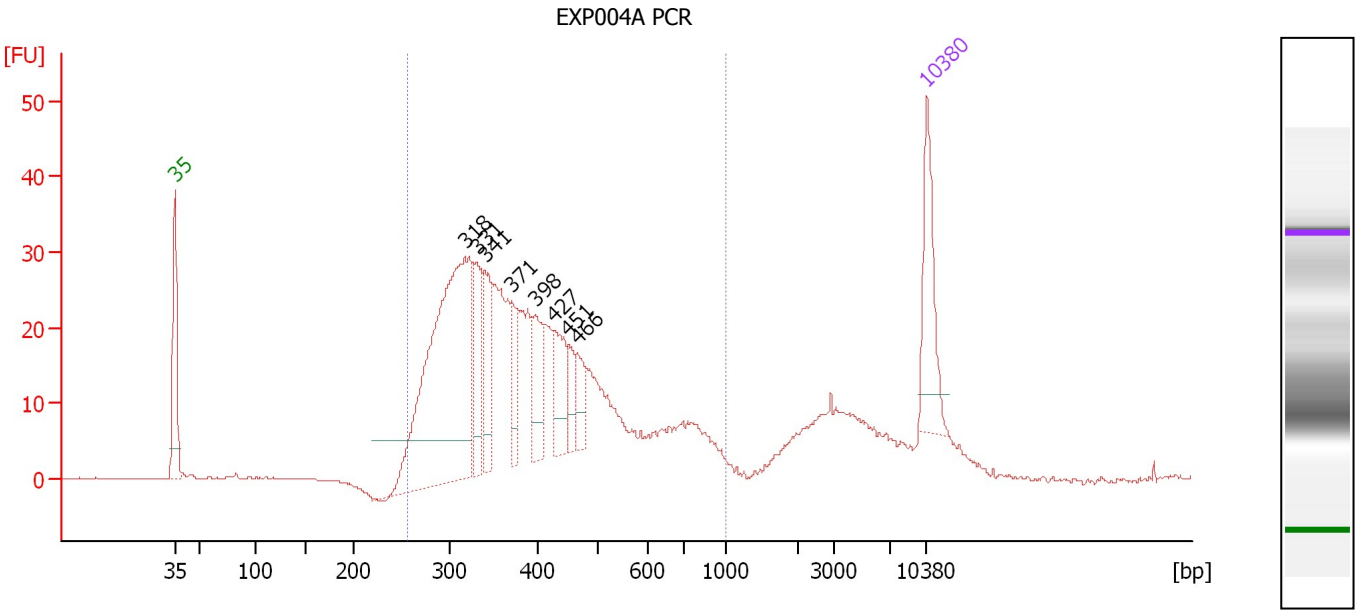
Region table for sample 7 : EXP004C

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	789.8	357	178.19	521	99.2	92	16.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : EXP004A PCR

Number of peaks found:	8	Corr. Area 1:	602.5
Noise:	0.1		

Peak table for sample 8 : EXP004A PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	318	507.94	2,422.7	
3	331	66.89	306.1	
4	341	80.49	357.8	
5	371	46.73	190.9	
6	398	62.71	238.5	
7	427	65.73	233.2	
8	451	27.16	91.2	
9	466	32.87	106.9	
10	10,380	75.00	10.9	Upper Marker

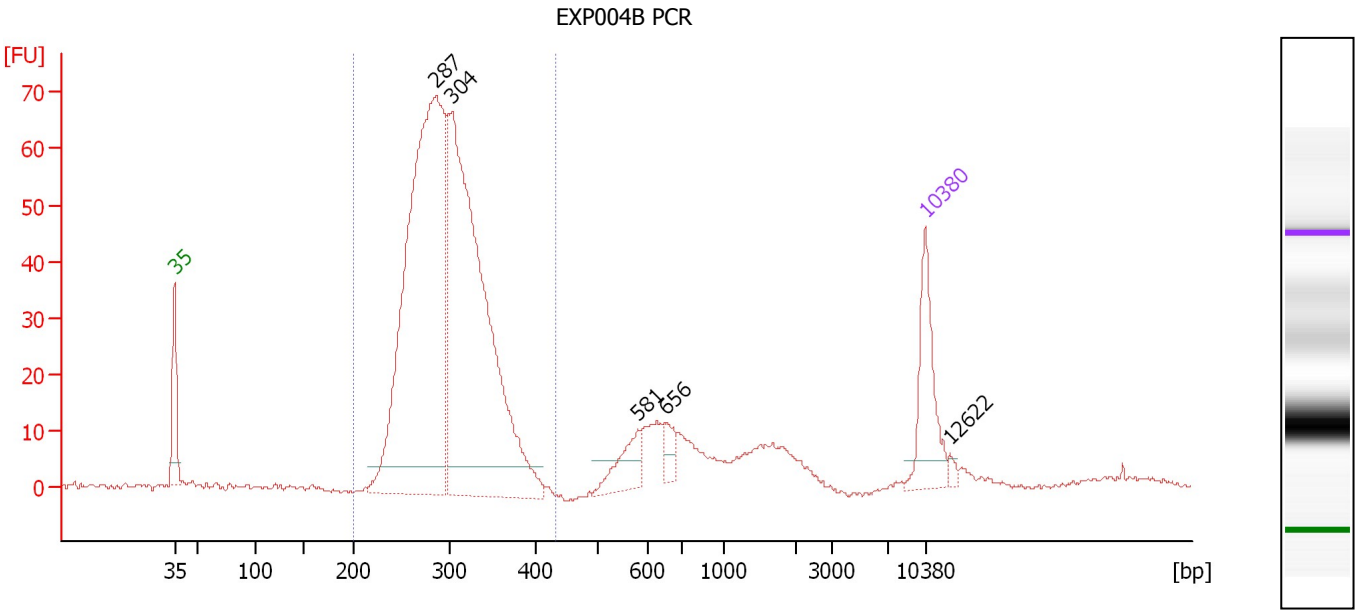
Region table for sample 8 : EXP004A PCR

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
257	6,227.6	414	1,527.56	1,000	602.5	85	32.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EXP004B PCR

Number of peaks found:	5	Corr. Area 1:	791.3
Noise:	0.5		

Peak table for sample 9 : EXP004B PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	857.08	4,524.8	
3	304	782.58	3,899.8	
4	581	45.54	118.7	
5	656	20.62	47.6	
6	10,380	75.00	10.9	Upper Marker
7	12,622	0.00	0.0	

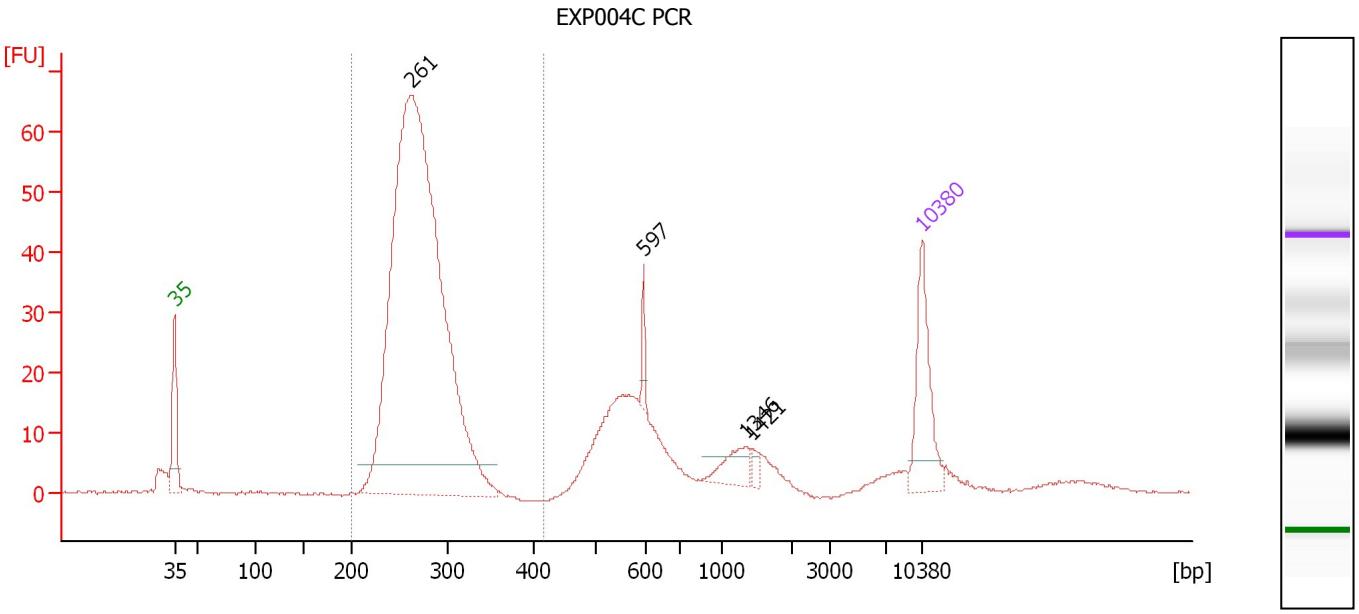
Region table for sample 9 : EXP004B PCR

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	7,997.0	299	1,556.01	434	791.3	83	11.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EXP004C PCR

Number of peaks found:	4	Corr. Area 1:	543.4
Noise:	0.2		

Peak table for sample 10 : EXP004C PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	1,342.39	7,781.5	
3	597	15.66	39.7	
4	1,346	28.46	32.0	
5	1,421	7.70	8.2	
6	10,380	75.00	10.9	Upper Marker

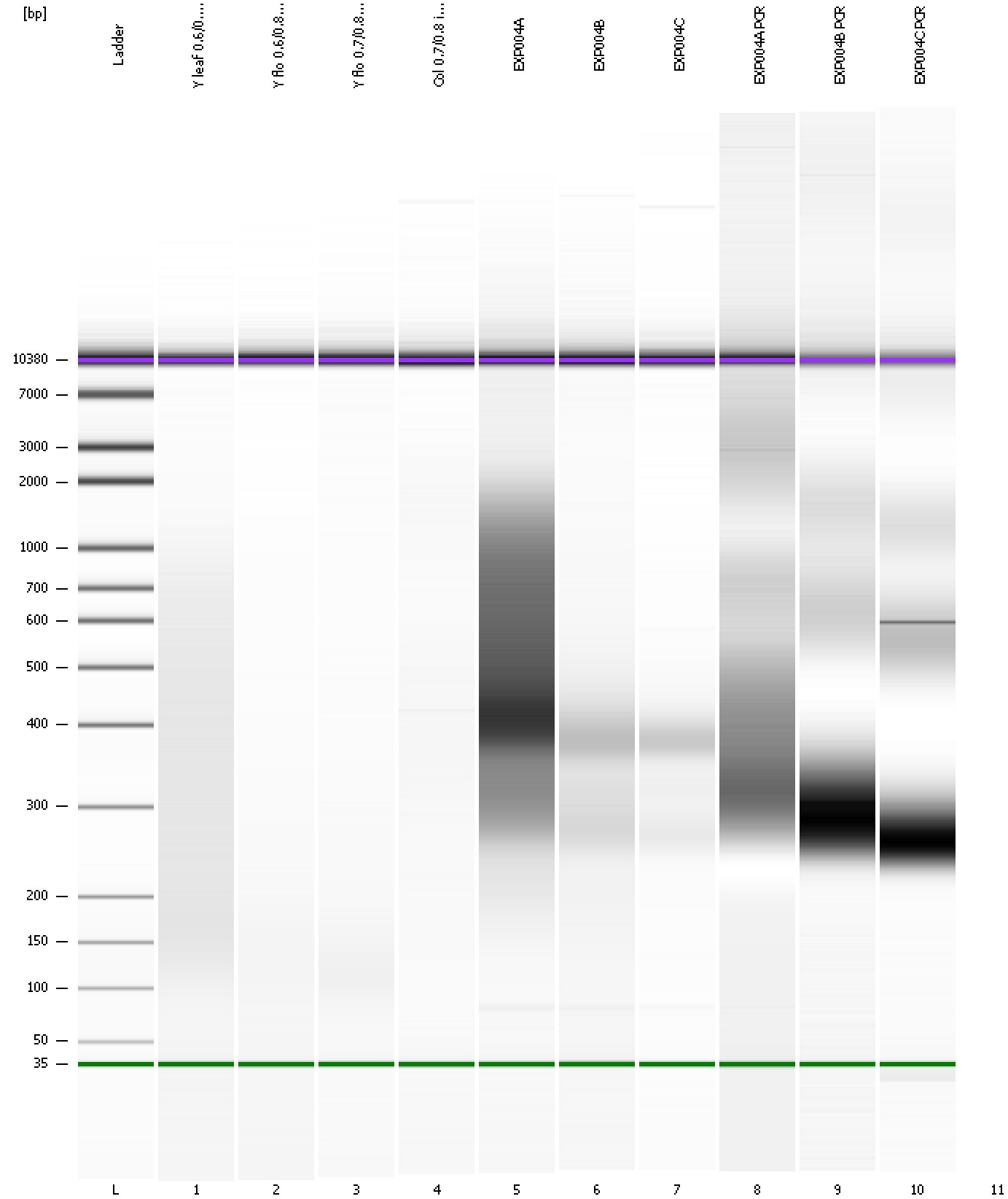
Region table for sample 10 : EXP004C PCR

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	7,274.2	271	1,292.65	415	543.4	71	9.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad

Created: 4/12/2012 9:18:57 AM
Modified: 4/12/2012 9:58:07 AM

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		4/12/2012 9:57:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-12\2012-04-12_001.xad)		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/12/2012 9:19:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1