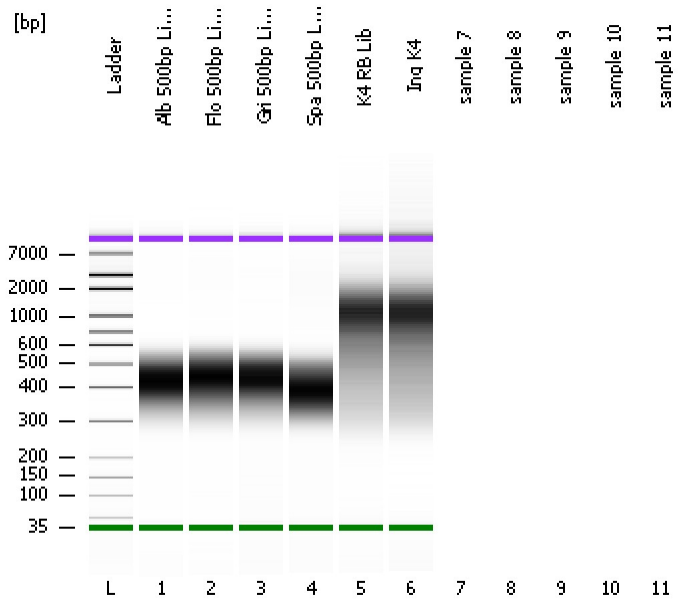
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 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

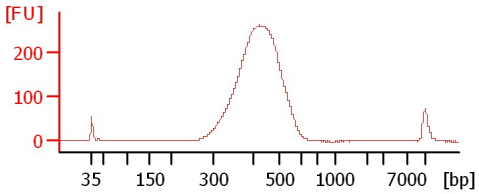
Chip Information:

Chip Lot #:

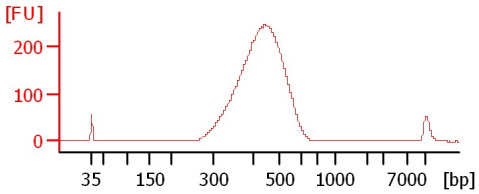
Reagent Kit Lot #:

Chip Comments:

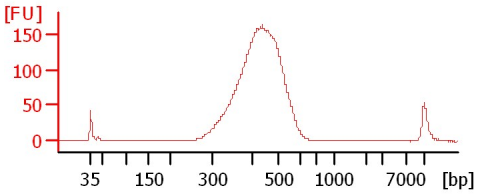
Alb 500bp Lib 1:3



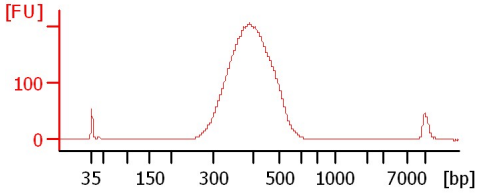
Flo 500bp Lin 1:5



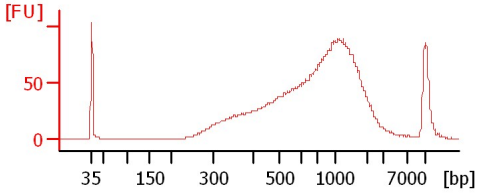
Gri 500bp Lib 1:3



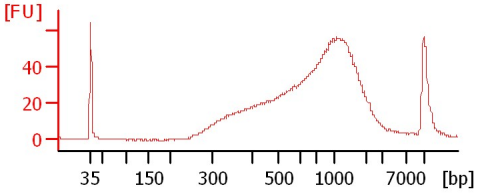
Spa 500bp Lib 1:5



K4 RB Lib



Ing K4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Alb 500bp Lib 1:3		☐	✔			
Flo 500bp Lin 1:5		☐	✔			
Gri 500bp Lib 1:3		☐	✔			
Spa 500bp Lib 1:5		☐	✔			
K4 RB Lib		☐	✔			
Ing K4		☐	✔			
sample 7		☐				
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 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

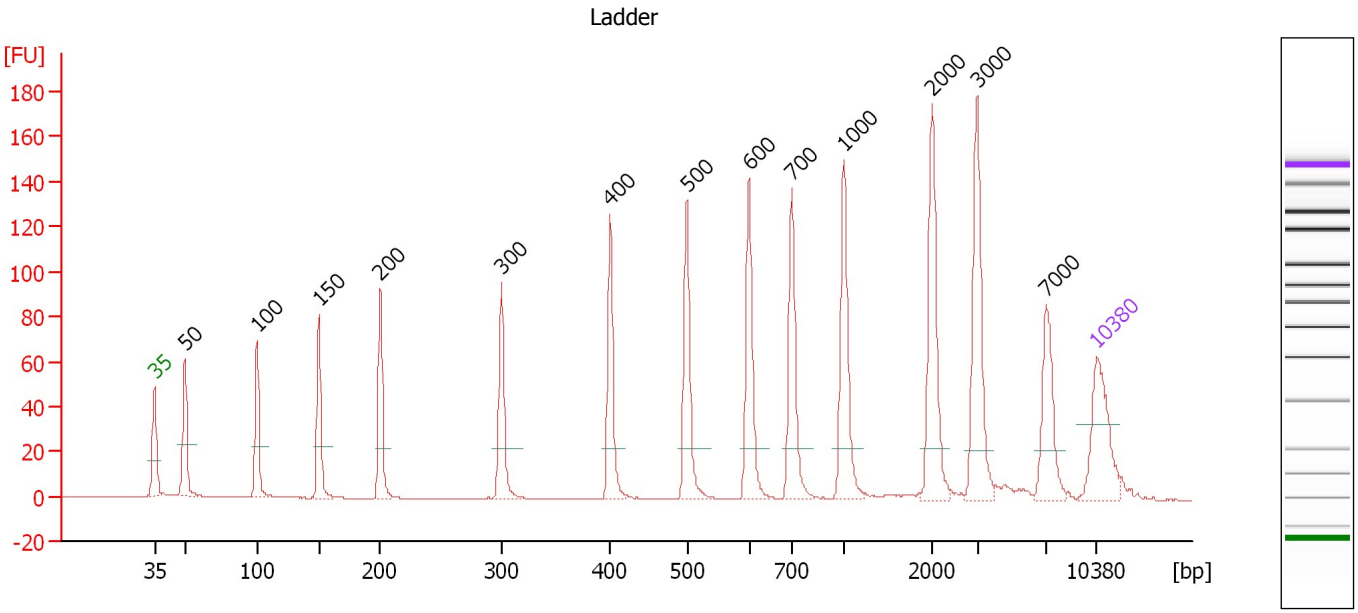
Ladder

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\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

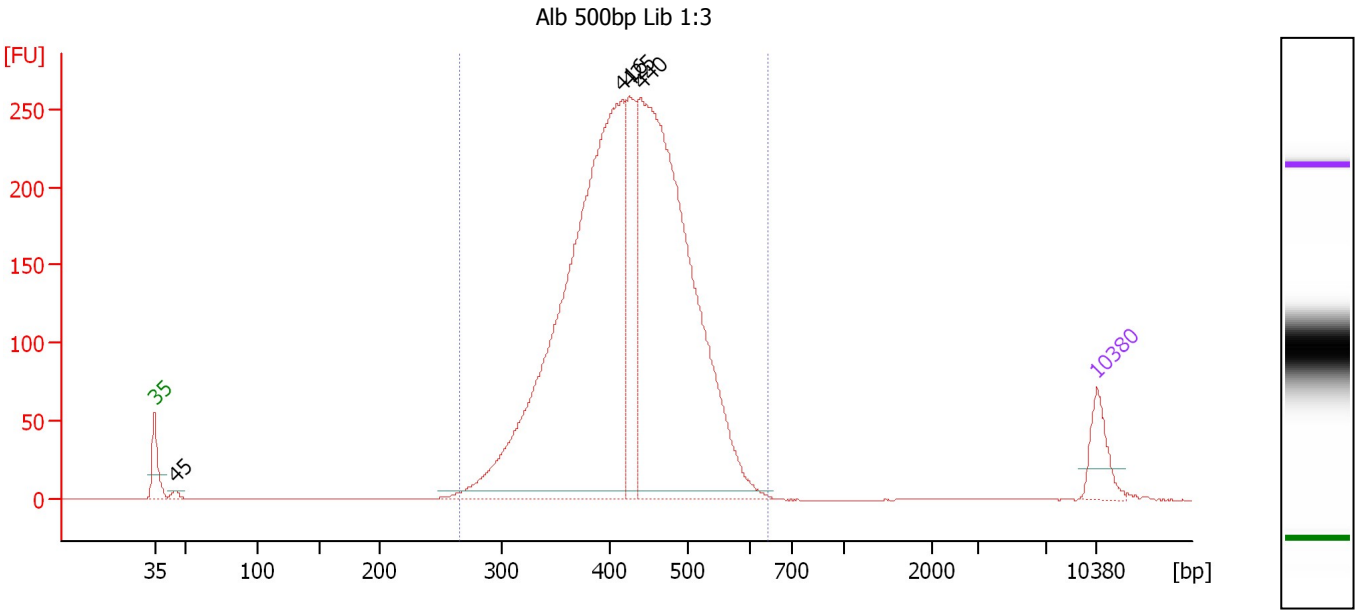
Peak table for Ladder

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\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Alb 500bp Lib 1:3

Number of peaks found:	4	Corr. Area 1:	3,732.6
Noise:	0.1		

Peak table for sample 1 : Alb 500bp Lib 1:3

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		45	13.66	456.0	
3		416	2,058.69	7,499.9	
4		425	320.50	1,142.6	
5		440	1,808.07	6,223.6	
6	▶	10,380	75.00	10.9	Upper Marker

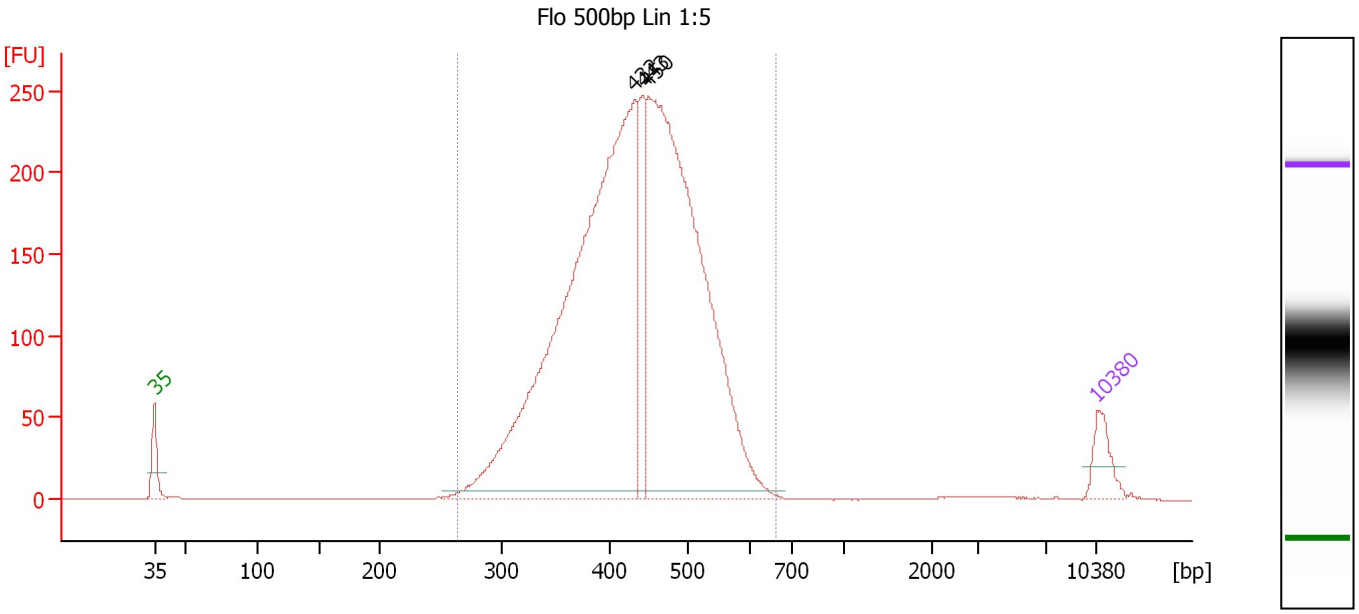
Region table for sample 1 : Alb 500bp Lib 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	15,652.0	427	4,276.13	642	3,732.6	99	15.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Flo 500bp Lin 1:5

Number of peaks found:	3	Corr. Area 1:	3,664.4
Noise:	0.2		

Peak table for sample 2 : Flo 500bp Lin 1:5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	432	2,707.02	9,499.1	
3	443	291.34	997.1	
4	450	2,232.50	7,521.0	
5	10,380	75.00	10.9	Upper Marker

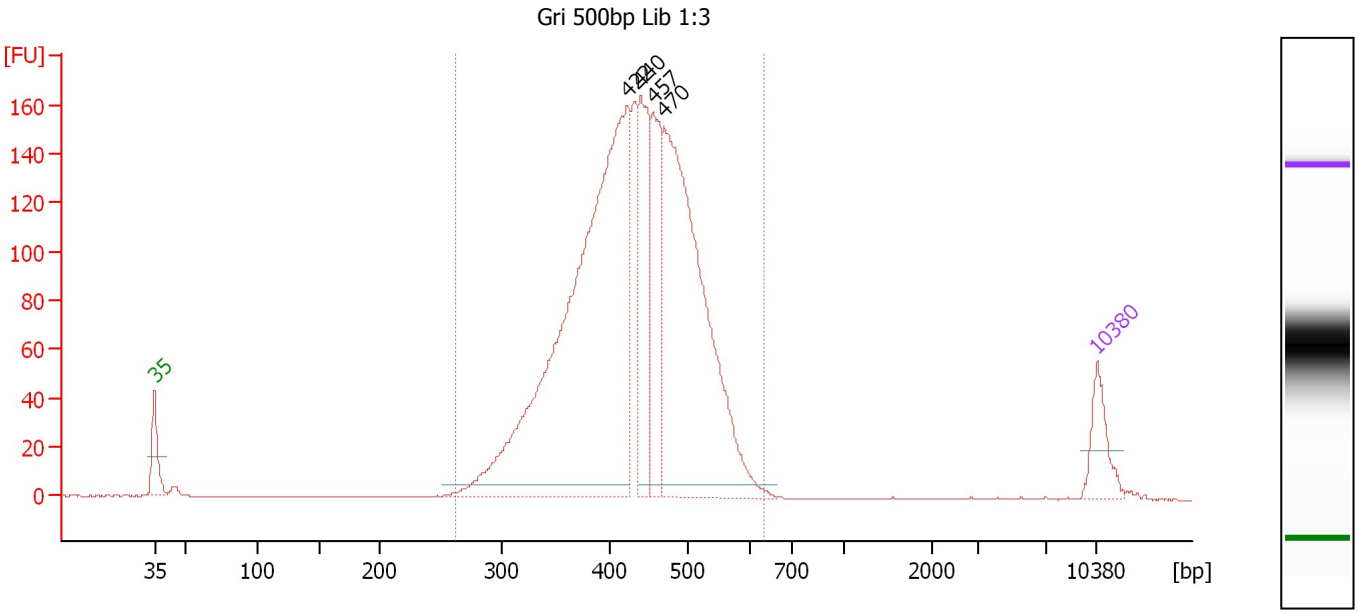
Region table for sample 2 : Flo 500bp Lin 1:5

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
265	19,348.6	435	5,357.33	663	3,664.4	99	16.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Gri 500bp Lib 1:3

Number of peaks found:	4	Corr. Area 1:	2,304.9
Noise:	0.2		

Peak table for sample 3 : Gri 500bp Lib 1:3

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		422	1,717.98	6,161.8	
3		440	315.78	1,087.5	
4		457	285.80	948.3	
5		470	1,077.23	3,471.5	
6	▶	10,380	75.00	10.9	Upper Marker

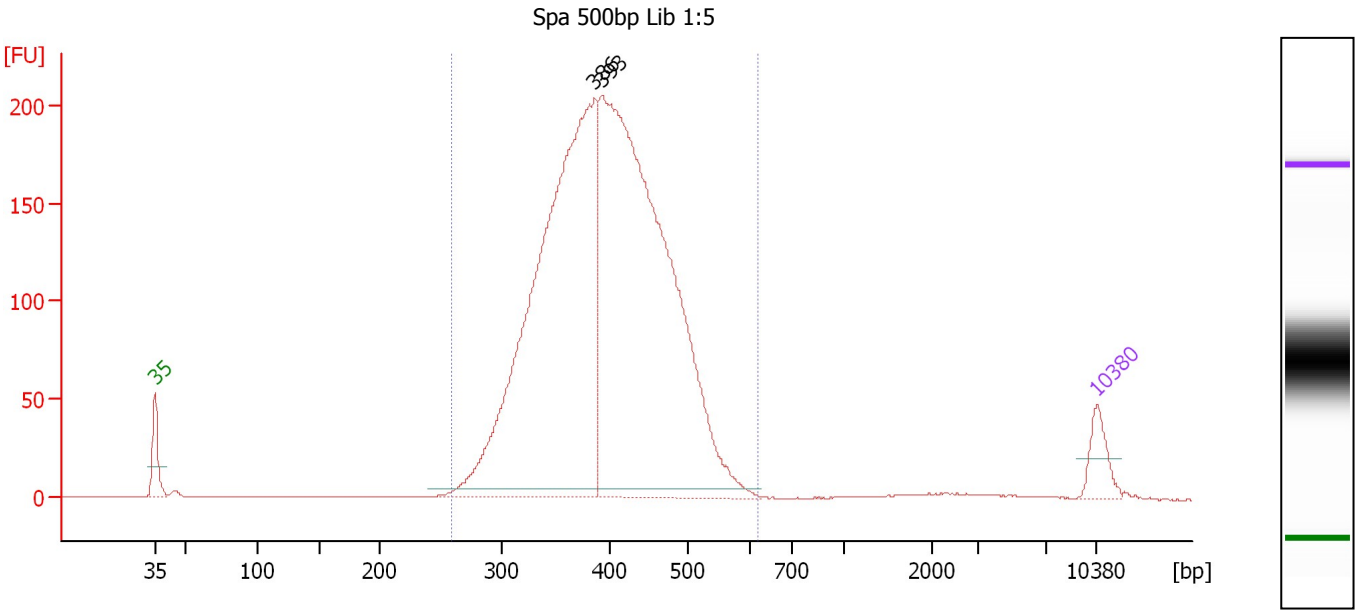
Region table for sample 3 : Gri 500bp Lib 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
263	13,316.2	433	3,684.09	634	2,304.9	99	15.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Spa 500bp Lib 1:5

Number of peaks found:	2	Corr. Area 1:	3,094.7
Noise:	0.1		

Peak table for sample 4 : Spa 500bp Lib 1:5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	2,472.64	9,709.1	
3	393	2,794.45	10,781.1	
4	10,380	75.00	10.9	Upper Marker

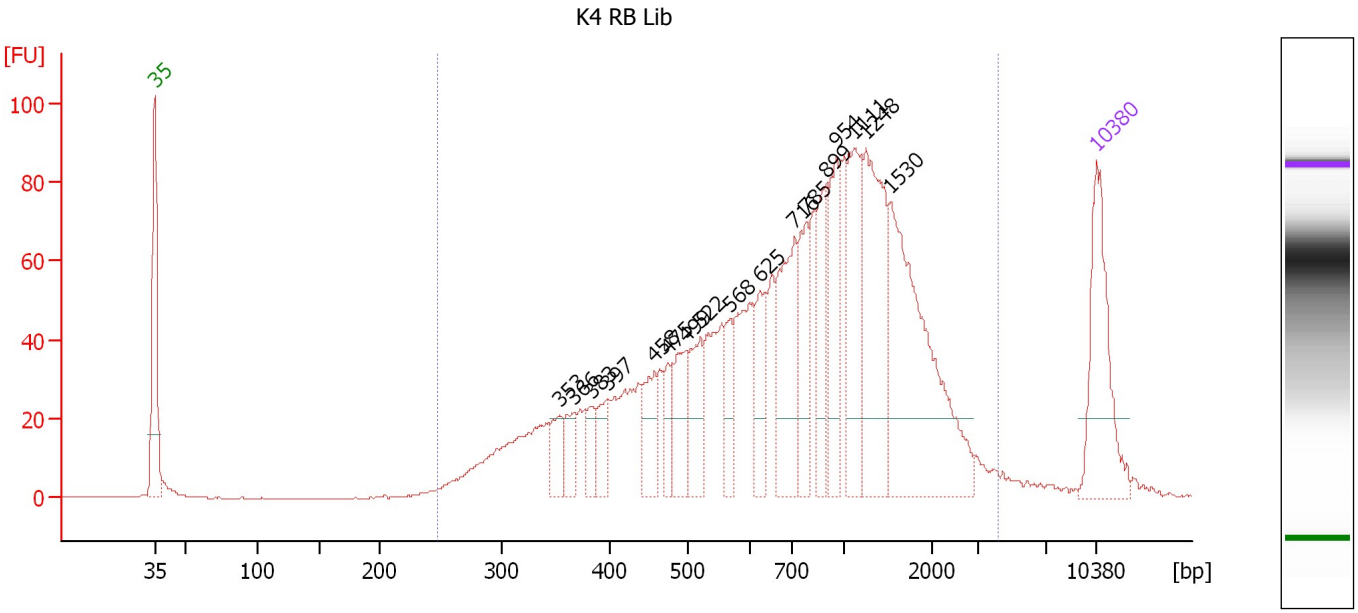
Region table for sample 4 : Spa 500bp Lib 1:5

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
259	20,820.2	401	5,354.74	623	3,094.7	98	15.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : K4 RB Lib

Height Threshold [FU] : 20

Overall Results for sample 5 : K4 RB Lib

Number of peaks found:	17	Corr. Area 1:	1,834.8
Noise:	0.1		

Peak table for sample 5 : K4 RB Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	353	27.31	117.1	
3	366	24.00	99.4	
4	383	21.09	83.5	
5	397	25.41	96.9	
6	458	37.24	123.2	
7	475	22.84	72.9	
8	499	43.27	131.5	
9	522	44.52	129.2	
10	568	27.34	72.9	
11	625	41.48	100.5	
12	716	94.84	200.7	
13	785	52.55	101.4	
14	899	55.64	93.8	
15	954	54.97	87.3	
16	1,111	81.45	111.1	
17	1,248	119.45	145.0	
18	1,530	183.58	181.8	
19	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...

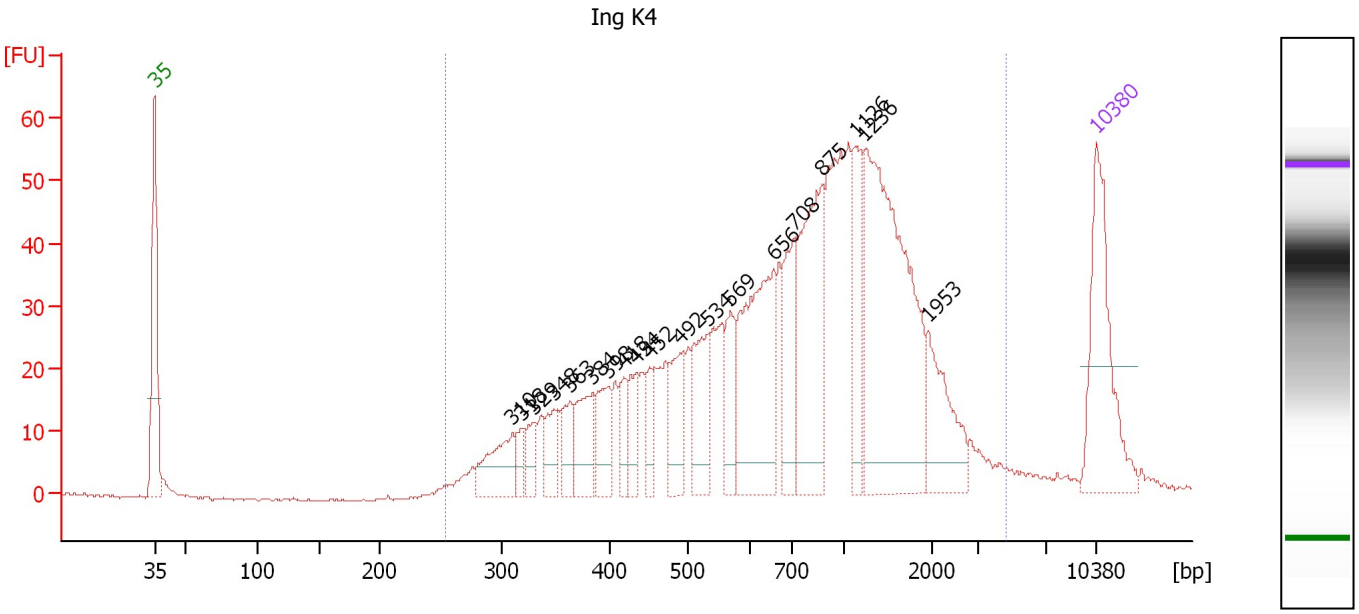
... Region table for sample 5 : K4 RB Lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
247	3,616.5	952	1,479.50	4,261	1,834.8	98	62.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Ing K4

Number of peaks found:	19	Corr. Area 1:	1,174.2
Noise:	0.2		

Peak table for sample 6 : Ing K4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	310	47.44	231.8	
3	318	13.70	65.2	
4	329	16.55	76.2	
5	348	24.63	107.2	
6	363	24.61	102.7	
7	384	39.73	156.8	
8	398	32.22	122.6	
9	418	19.36	70.3	
10	434	24.36	85.0	
11	452	20.57	69.0	
12	492	38.56	118.8	
13	534	47.92	135.9	
14	569	34.71	92.5	
15	656	128.68	297.2	
16	708	53.94	115.4	
17	875	112.82	195.4	
18	1,126	50.59	68.1	
19	1,236	213.38	261.6	
20	1,953	50.33	39.0	
21	10,380	75.00	10.9	Upper Marker

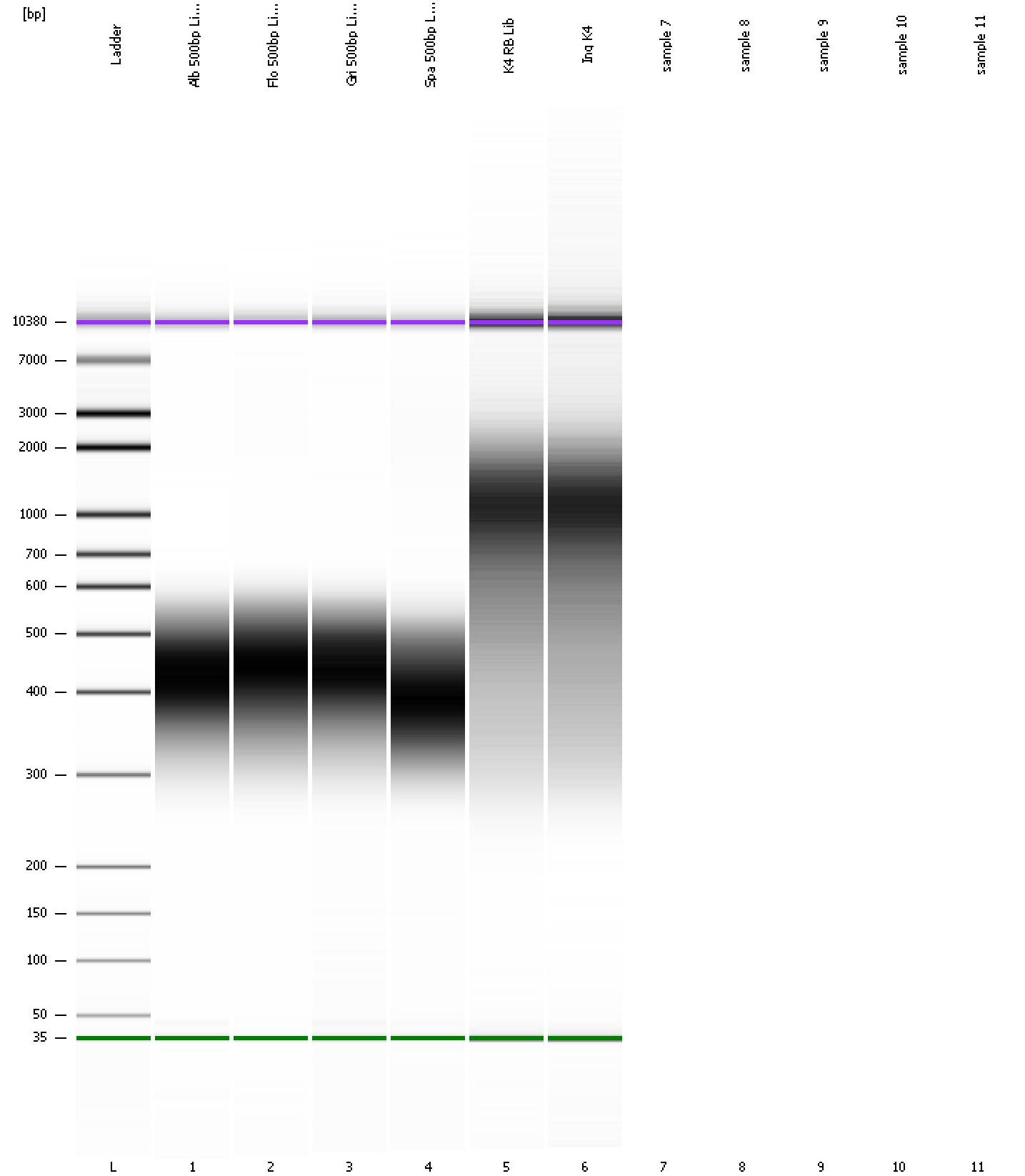
Region table for sample 6 : Ing K4

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
254	3,329.8	960	1,360.00	4,701	1,174.2	97	65.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Invalid Samples

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\2012-05-10\2012-05-10_004.xad

Created: 5/10/2012 3:05:04 PM
Modified: 5/10/2012 3:41:11 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		5/10/2012 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-05-10\2012-05-10_004.xad)		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/10/2012 3:05:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1