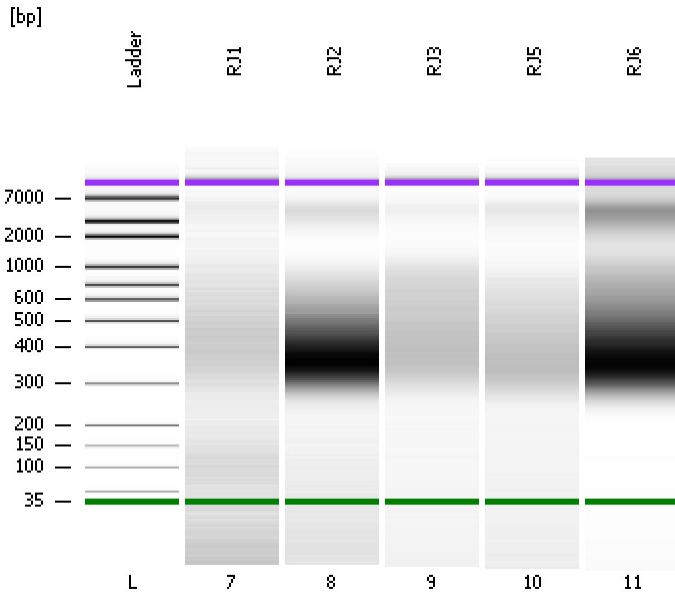


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
Modified: 5/13/2014 3:07:23 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

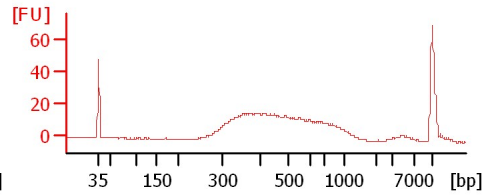
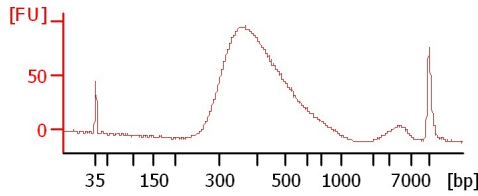
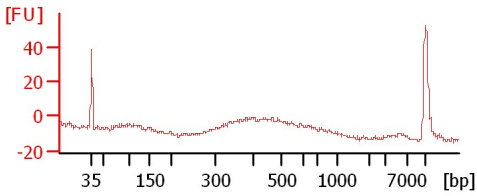
Chip Information:

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

RJ1

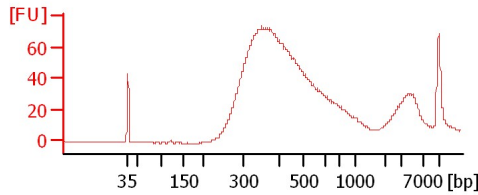
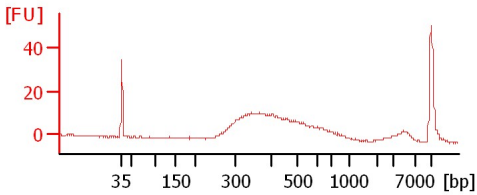
RJ2

RJ3



RJ5

RJ6



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RJ1		<input type="checkbox"/>				
RJ2		<input type="checkbox"/>				
RJ3		<input type="checkbox"/>				
RJ5		<input type="checkbox"/>				
RJ6		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				
Chip Lot #				Reagent Kit Lot #		

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
Modified: 5/13/2014 3:07:23 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

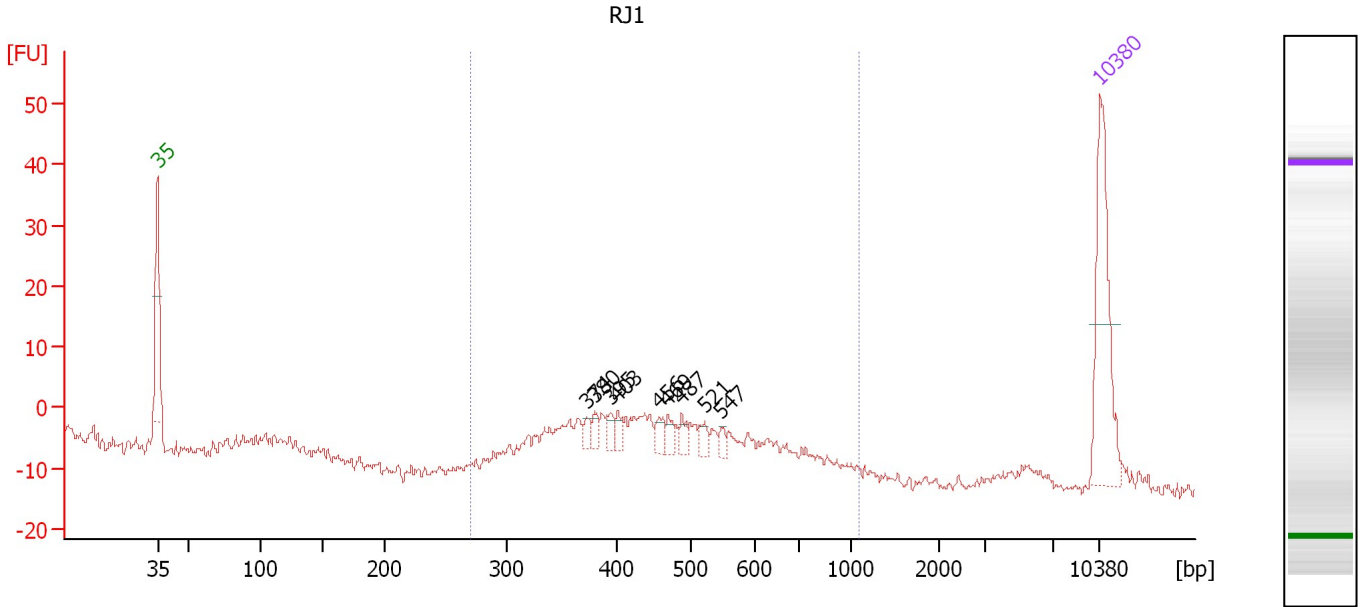
Ladder

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:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary



Overall Results for sample 7 : RJ1

Number of peaks found: 9 Corr. Area 1: 120.0
 Noise: 1.0

Peak table for sample 7 : RJ1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	6.25	25.4	
3	380	7.14	28.4	
4	395	7.82	30.0	
5	403	7.10	26.7	
6	456	9.10	30.2	
7	469	8.41	27.2	
8	487	8.70	27.0	
9	521	7.92	23.0	
10	547	5.08	14.1	
11	10,380	75.00	10.9	Upper Marker

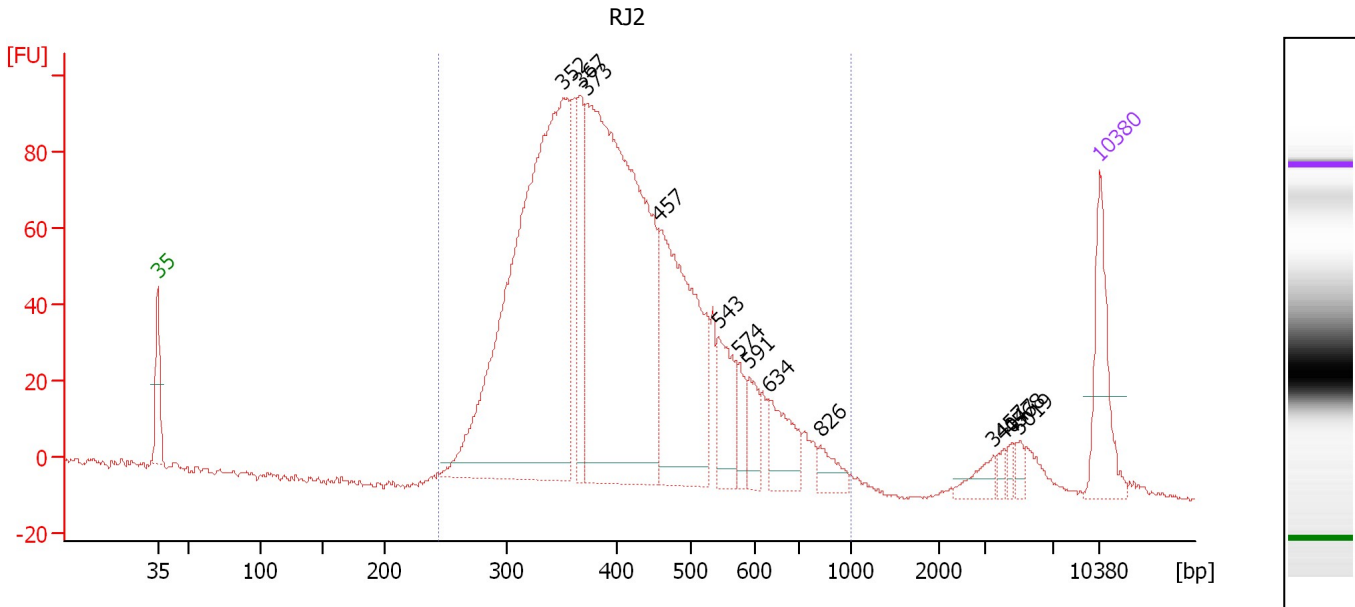
Region table for sample 7 : RJ1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
270	1,097	488	660.9	197.92	120.0	92	25.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RJ2

Number of peaks found: 13 Corr. Area 1: 1,942.2
 Noise: 0.6

Peak table for sample 8 : RJ2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	352	904.41	3,893.5	
3	367	108.99	449.6	
4	373	825.22	3,355.4	
5	457	336.14	1,114.4	
6	543	77.26	215.7	
7	574	31.63	83.5	
8	591	35.19	90.2	
9	634	62.61	149.6	
10	826	25.66	47.1	
11	3,457	18.22	8.0	
12	4,047	7.47	2.8	
13	4,568	6.97	2.3	
14	5,019	9.39	2.8	
15	10,380	75.00	10.9	Upper Marker

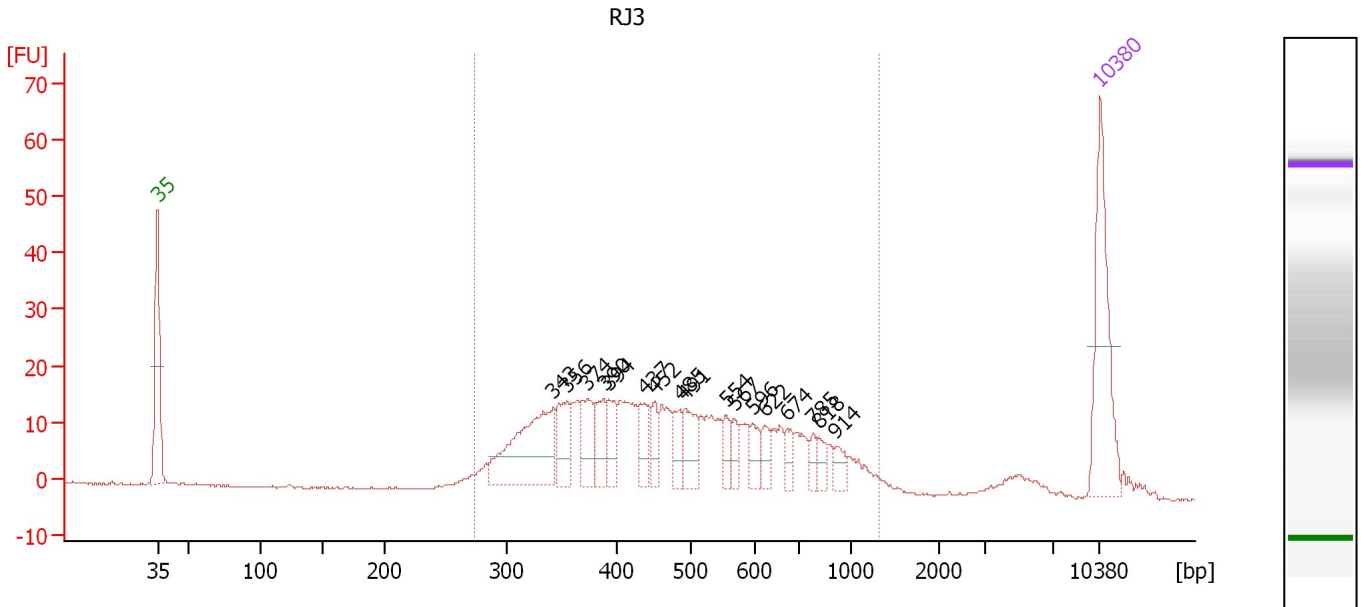
Region table for sample 8 : RJ2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
243	1,000	421	9,757.4	2,512.16	1,942.2	96	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RJ3

Number of peaks found: 17 Corr. Area 1: 439.6
 Noise: 0.2

Peak table for sample 9 : RJ3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	109.20	482.4	
3	356	34.24	145.8	
4	374	32.90	133.2	
5	390	27.61	107.4	
6	394	21.93	84.4	
7	437	21.68	75.1	
8	452	16.14	54.2	
9	485	18.23	56.9	
10	491	29.97	92.4	
11	554	13.20	36.1	
12	567	11.59	31.0	
13	596	15.17	38.6	
14	622	13.22	32.2	
15	674	11.94	26.8	
16	785	8.45	16.3	
17	818	9.00	16.7	
18	914	10.98	18.2	
19	10,380	75.00	10.9	Upper Marker

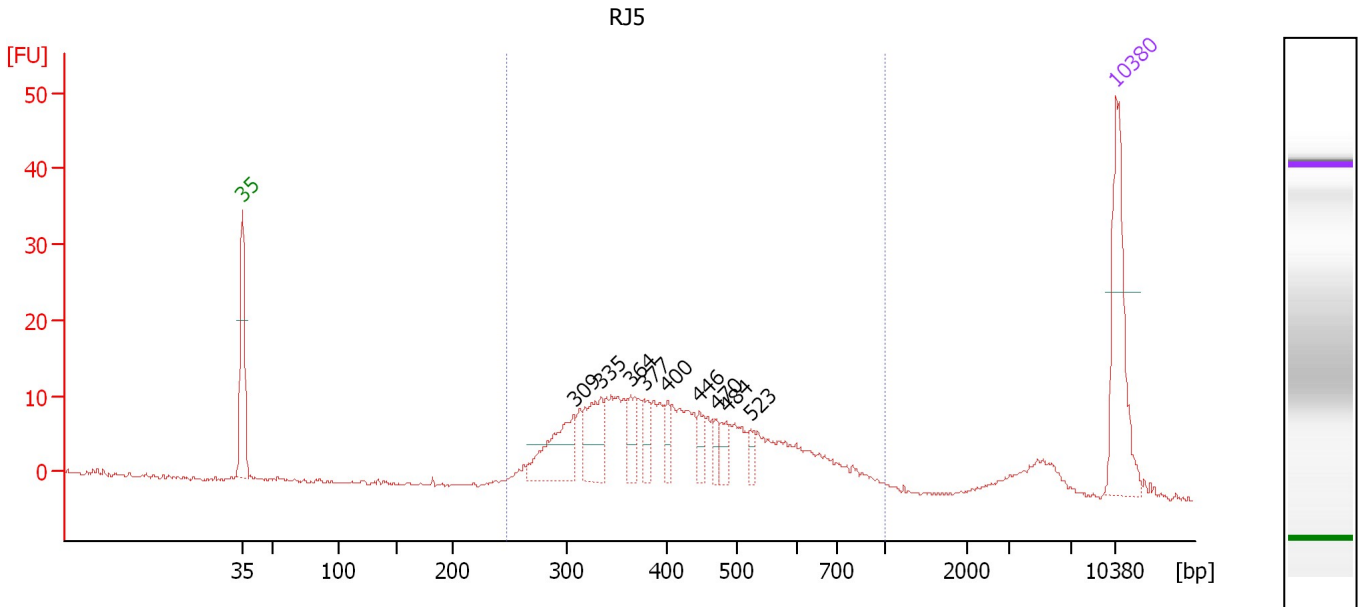
Region table for sample 9 : RJ3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
274	1,328	511	2,362.8	686.94	439.6	94	37.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RJ5

Number of peaks found: 9 Corr. Area 1: 281.4
 Noise: 0.2

Peak table for sample 10 : RJ5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	68.75	337.5	
3	335	52.31	236.6	
4	364	23.23	96.7	
5	377	20.48	82.3	
6	400	15.30	57.9	
7	446	14.68	49.9	
8	470	11.55	37.2	
9	484	15.26	47.8	
10	523	9.22	26.7	
11	10,380	75.00	10.9	Upper Marker

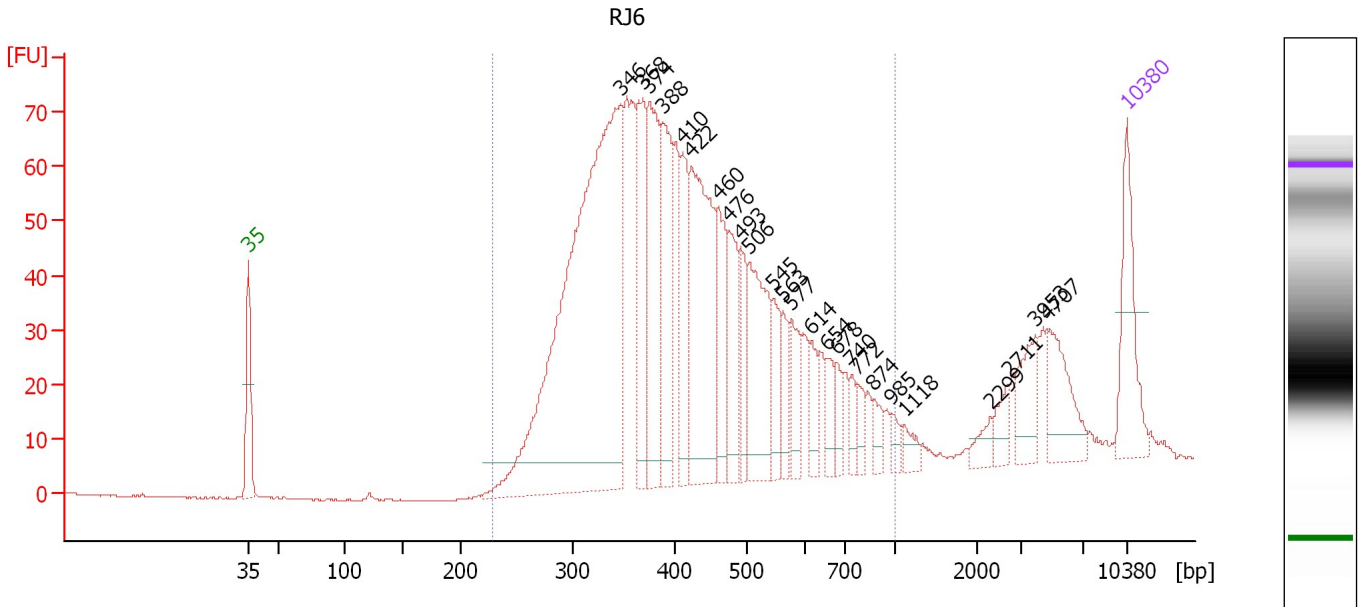
Region table for sample 10 : RJ5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
247	1,000	439	2,208.0	575.87	281.4	92	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
 Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RJ6

Number of peaks found: 25 Corr. Area 1: 1,506.9
 Noise: 0.1


Peak table for sample 11 : RJ6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	346	916.30	4,007.0	
3	368	145.51	599.2	
4	374	175.28	709.7	
5	388	148.32	579.5	
6	410	102.32	378.5	
7	422	256.72	922.4	
8	460	88.96	292.9	
9	476	85.10	270.8	
10	493	48.23	148.3	
11	506	145.79	436.7	
12	545	50.47	140.2	
13	563	33.71	90.8	
14	577	48.06	126.2	
15	614	29.22	72.1	
16	654	26.35	61.1	
17	678	23.04	51.5	
18	740	17.26	35.4	
19	772	18.90	37.1	
20	874	17.68	30.7	
21	985	12.07	18.6	
22	1,118	14.68	19.9	
23	2,299	15.02	9.9	
24	2,711	19.35	10.8	
25	3,953	44.89	17.2	
26	4,707	62.62	20.2	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
Modified: 5/13/2014 3:07:23 PM

Electropherogram Summary Continued ...**... Peak table for sample 11 : RJ6**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	 10,380	75.00	10.9	Upper Marker

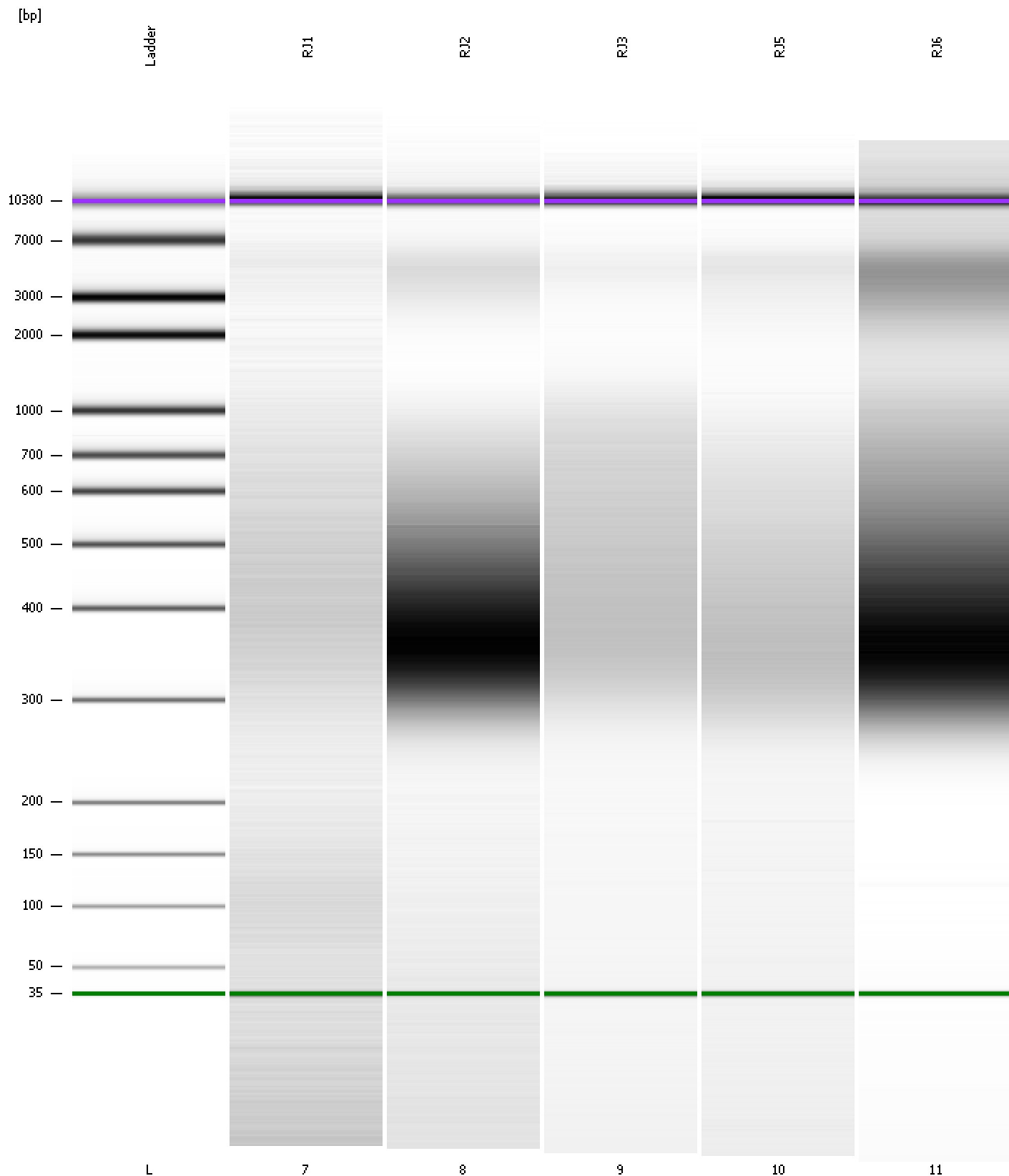
Region table for sample 11 : RJ6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
228	1,000	432	10,300.2	2,657.26	 1,506.9	90	30.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
Modified: 5/13/2014 3:07:23 PM

Gel Image

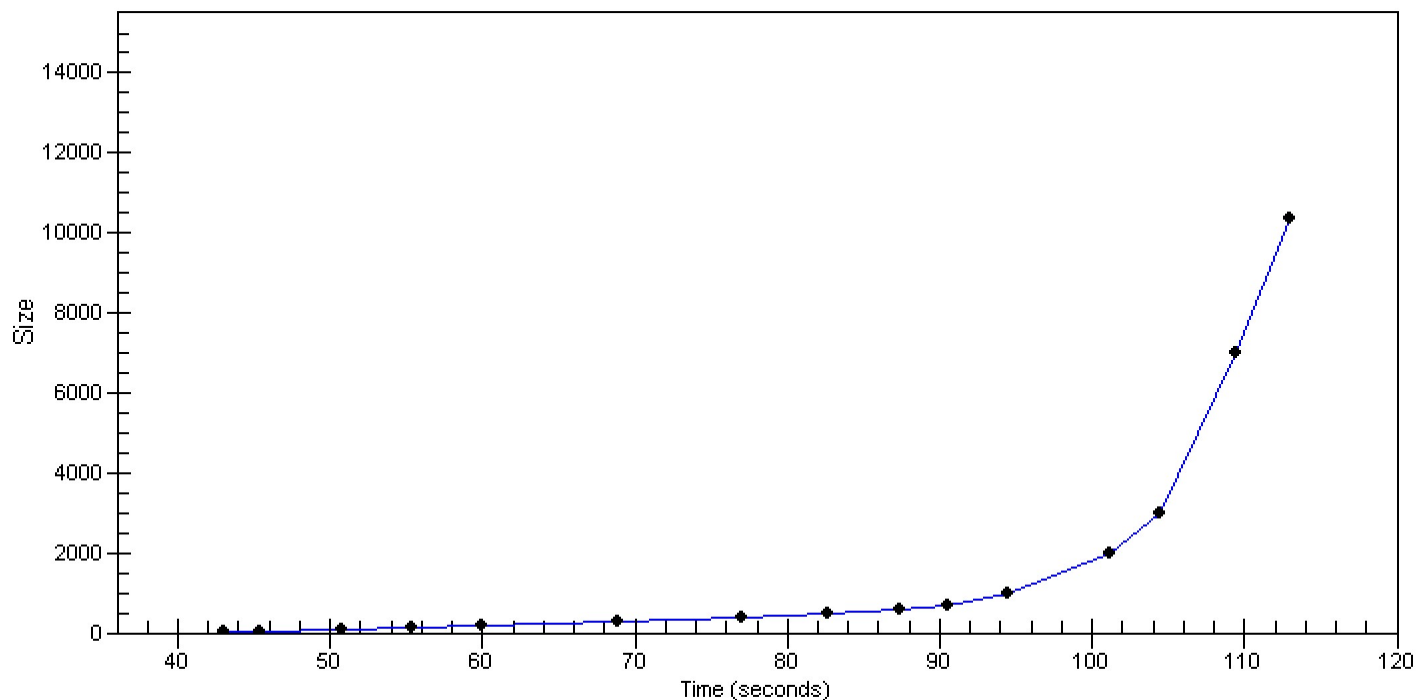


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad

Created: 5/13/2014 2:16:09 PM
Modified: 5/13/2014 3:07:23 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 5/13/2014 2:16:09 PM
 Data Path: C:\...er\2100 expert\data\2014-05-13\2014-05-13_006_RJ1-3_5-6.xad Modified: 5/13/2014 3:07:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		5/13/2014 2:56:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-05-13\2014-05-13_006.xad)		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/13/2014 2:16:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1