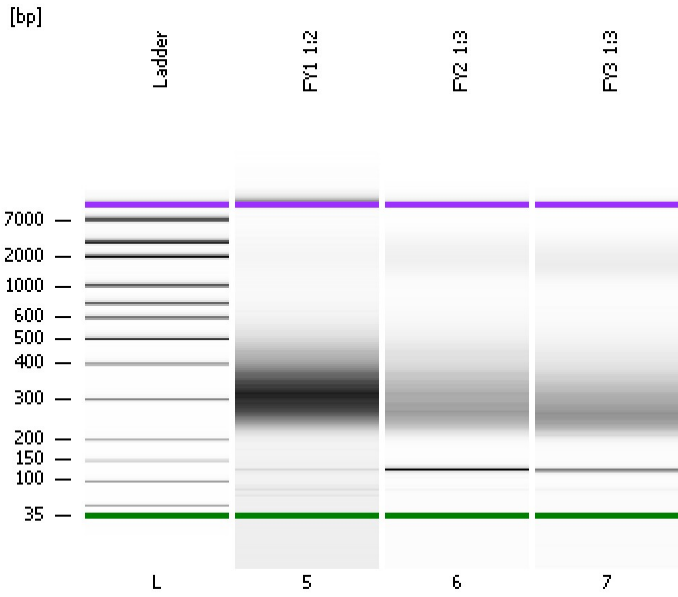


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 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

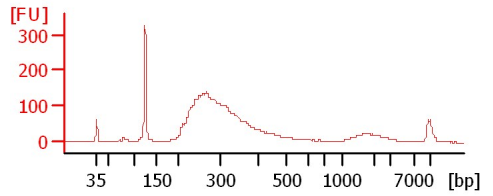
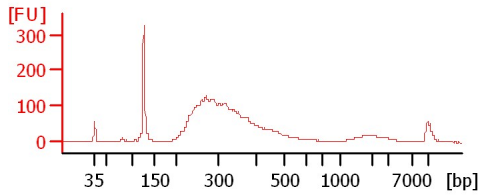
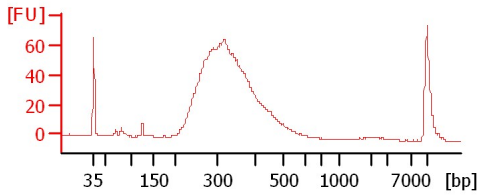
Chip Information:

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

FY1 1:2

FY2 1:3

FY3 1:3



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
FY1 1:2		<input type="checkbox"/>	✓			
FY2 1:3		<input type="checkbox"/>	✓			
FY3 1:3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 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

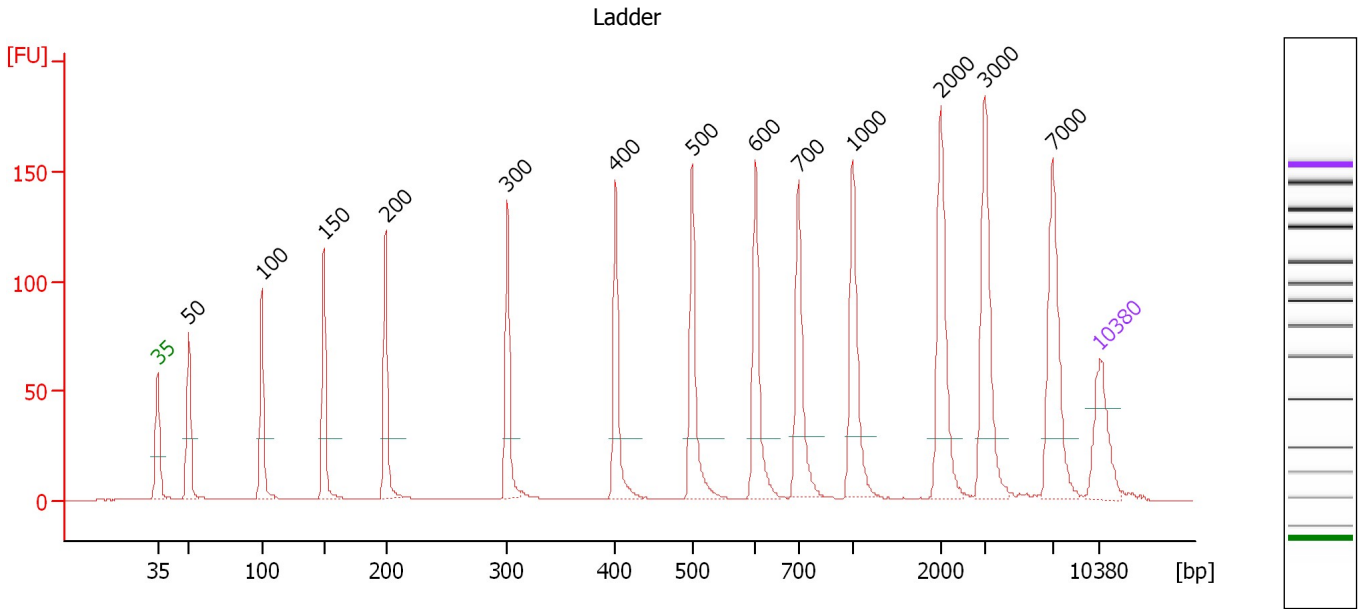
Ladder

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:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

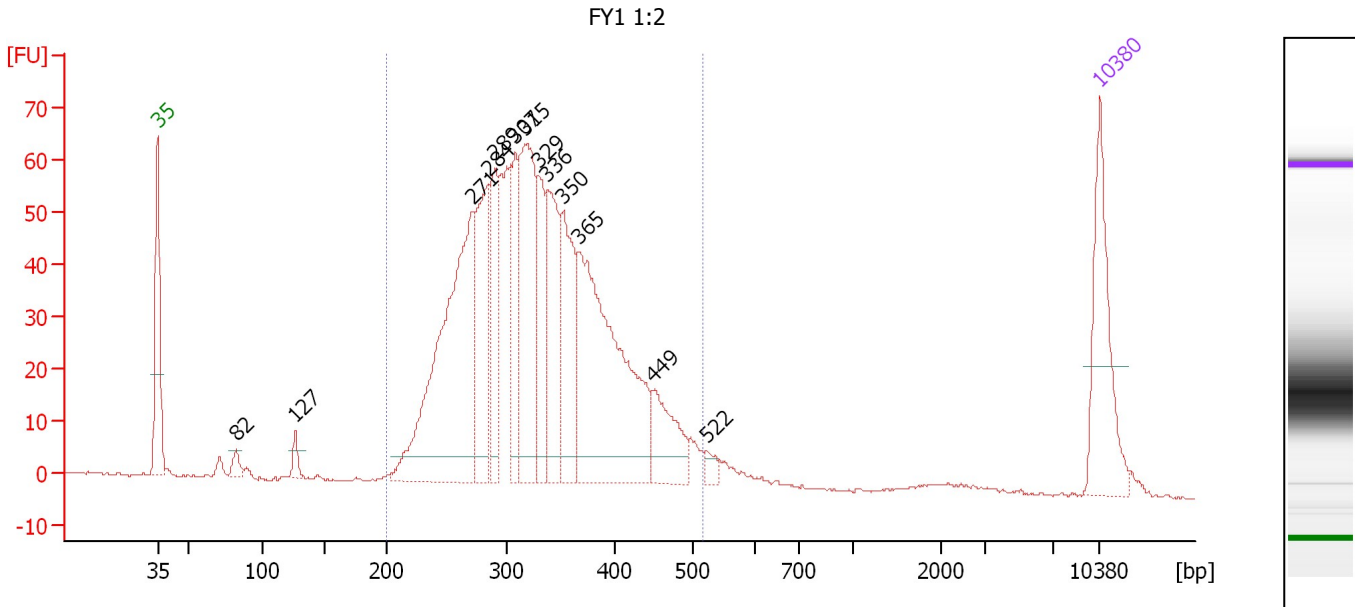
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.31	50	150.00	4,545.5	Ladder Peak
3	50.74	100	150.00	2,272.7	Ladder Peak
4	55.37	150	150.00	1,515.2	Ladder Peak
5	59.95	200	150.00	1,136.4	Ladder Peak
6	69.00	300	150.00	757.6	Ladder Peak
7	77.03	400	150.00	568.2	Ladder Peak
8	82.71	500	150.00	454.5	Ladder Peak
9	87.42	600	150.00	378.8	Ladder Peak
10	90.62	700	150.00	324.7	Ladder Peak
11	94.62	1,000	150.00	227.3	Ladder Peak
12	101.18	2,000	150.00	113.6	Ladder Peak
13	104.46	3,000	150.00	75.8	Ladder Peak
14	109.51	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
 Modified: 4/1/2014 3:21:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : FY1 1:2

Number of peaks found: 13 Corr. Area 1: 1,164.8
 Noise: 0.3

Peak table for sample 5 : FY1 1:2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.84	82	10.85	199.3	
3	53.21	127	12.53	149.8	
4	66.39	271	316.55	1,768.6	
5	67.59	284	116.73	621.9	
6	68.03	289	81.11	424.8	
7	69.58	307	70.66	348.5	
8	70.24	315	163.14	783.6	
9	71.34	329	72.06	331.6	
10	71.92	336	107.20	482.9	
11	73.03	350	106.33	460.1	
12	74.22	365	279.16	1,158.9	
13	79.84	449	56.05	189.0	
14	83.77	522	8.75	25.4	
15	113.00	10,380	75.00	10.9	Upper Marker

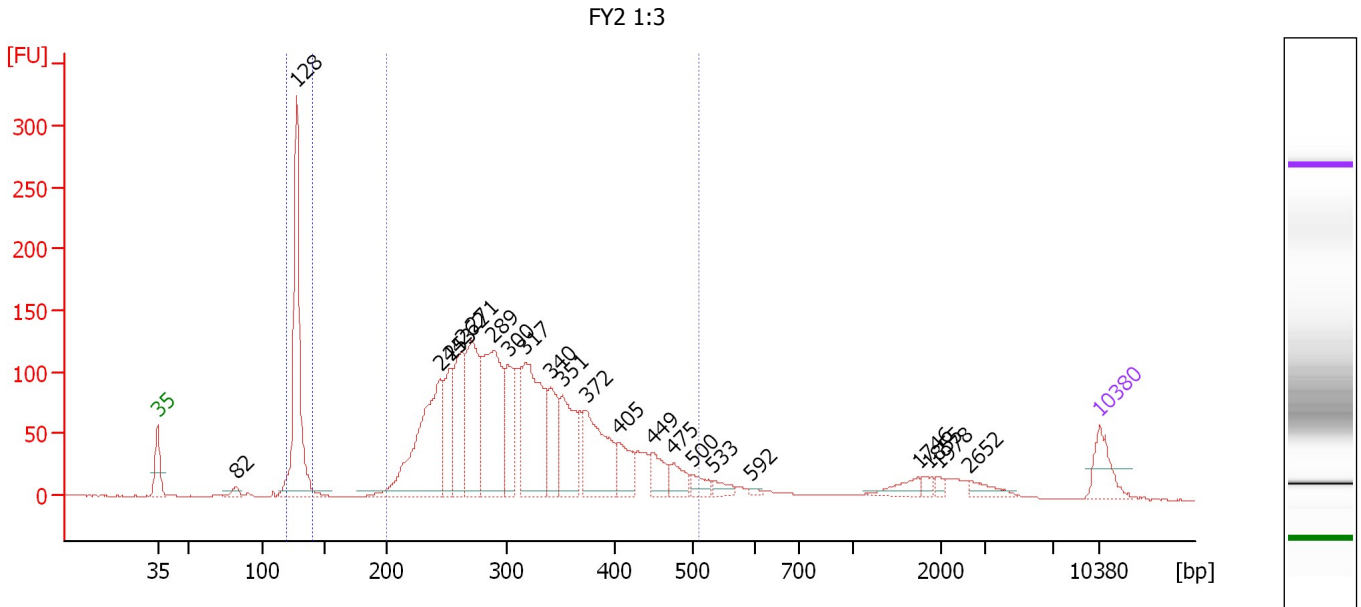
Region table for sample 5 : FY1 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	517	330	7,339.4	1,526.41	1,164.8	94	19.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
 Modified: 4/1/2014 3:21:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : FY2 1:3

Number of peaks found: 22 Corr. Area 1: 2,343.9
 Noise: 0.2 Corr. Area 2: 331.7

Peak table for sample 6 : FY2 1:3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.83	82	23.19	426.7	
3	53.31	128	711.97	8,445.1	
4	63.97	244	586.98	3,638.3	
5	64.73	253	186.55	1,117.8	
6	65.59	262	258.19	1,491.5	
7	66.35	271	395.77	2,215.1	
8	67.96	289	487.14	2,558.0	
9	69.04	300	184.61	930.8	
10	70.34	317	453.34	2,169.1	
11	72.17	340	169.07	754.5	
12	73.07	351	223.20	964.3	
13	74.82	372	288.85	1,175.1	
14	77.33	405	98.41	368.0	
15	79.84	449	83.12	280.2	
16	81.27	475	58.24	185.9	
17	82.71	500	37.39	113.3	
18	84.27	533	28.38	80.7	
19	87.05	592	8.19	21.0	
20	99.51	1,746	37.52	32.6	
21	100.23	1,855	13.77	11.2	
22	101.03	1,978	12.61	9.7	
23	103.32	2,652	29.53	16.9	
24	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 PM

Electropherogram Summary Continued ...

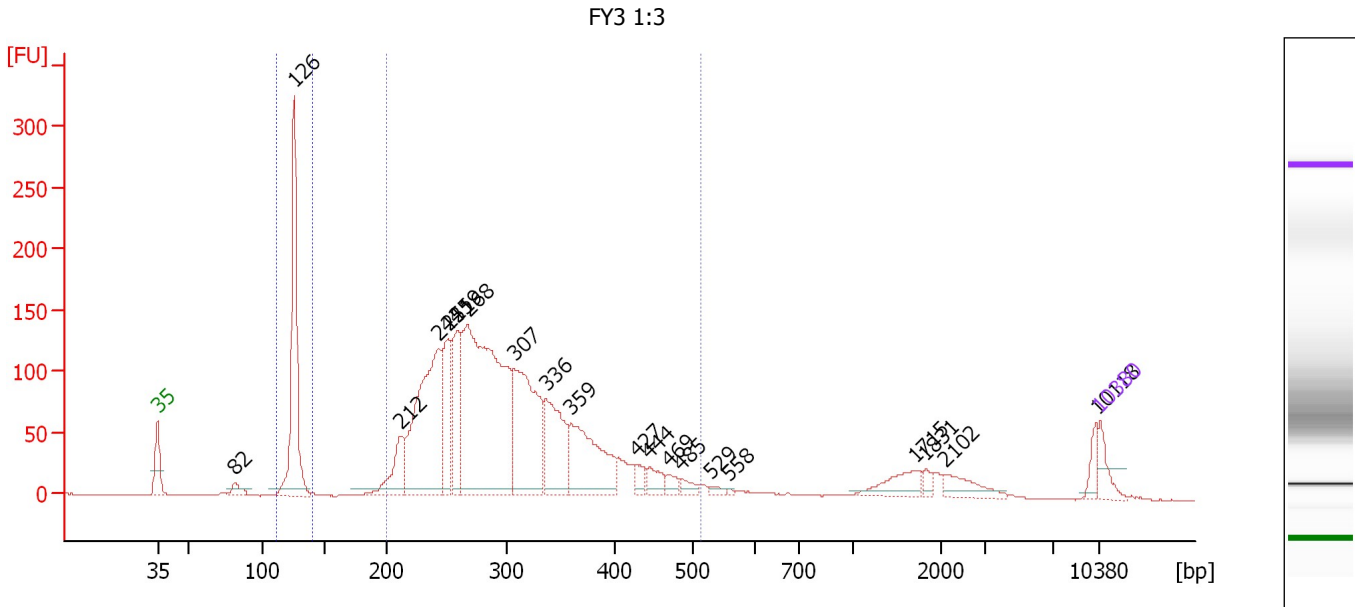
... Region table for sample 6 : FY2 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
120	140	128	8,055.2	682.08	331.7	11	2.5
200	512	318	19,139.7	3,800.19	2,343.9	79	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
 Modified: 4/1/2014 3:21:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FY3 1:3

Number of peaks found: 20 Corr. Area 1: 2,359.3
 Noise: 0.2 Corr. Area 2: 302.7

Peak table for sample 7 : FY3 1:3



Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.77	82	61.86	1,145.8	
3	53.14	126	979.95	11,795.5	
4	61.06	212	256.59	1,831.5	
5	63.90	244	1,075.71	6,689.4	
6	64.58	251	363.18	2,191.3	
7	65.25	259	377.09	2,209.5	
8	66.06	268	1,868.83	10,583.1	
9	69.53	307	795.19	3,929.1	
10	71.87	336	446.87	2,016.3	
11	73.72	359	519.35	2,193.2	
12	78.59	427	60.66	215.1	
13	79.53	444	83.45	284.8	
14	80.93	469	45.70	147.8	
15	81.87	485	43.03	134.4	
16	84.08	529	21.88	62.7	
17	85.43	558	7.08	19.2	
18	99.31	1,715	112.12	99.1	
19	100.07	1,831	31.05	25.7	
20	101.51	2,102	91.82	66.2	
21	112.73	10,118	53.60	8.0	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 PM

Electropherogram Summary Continued ...

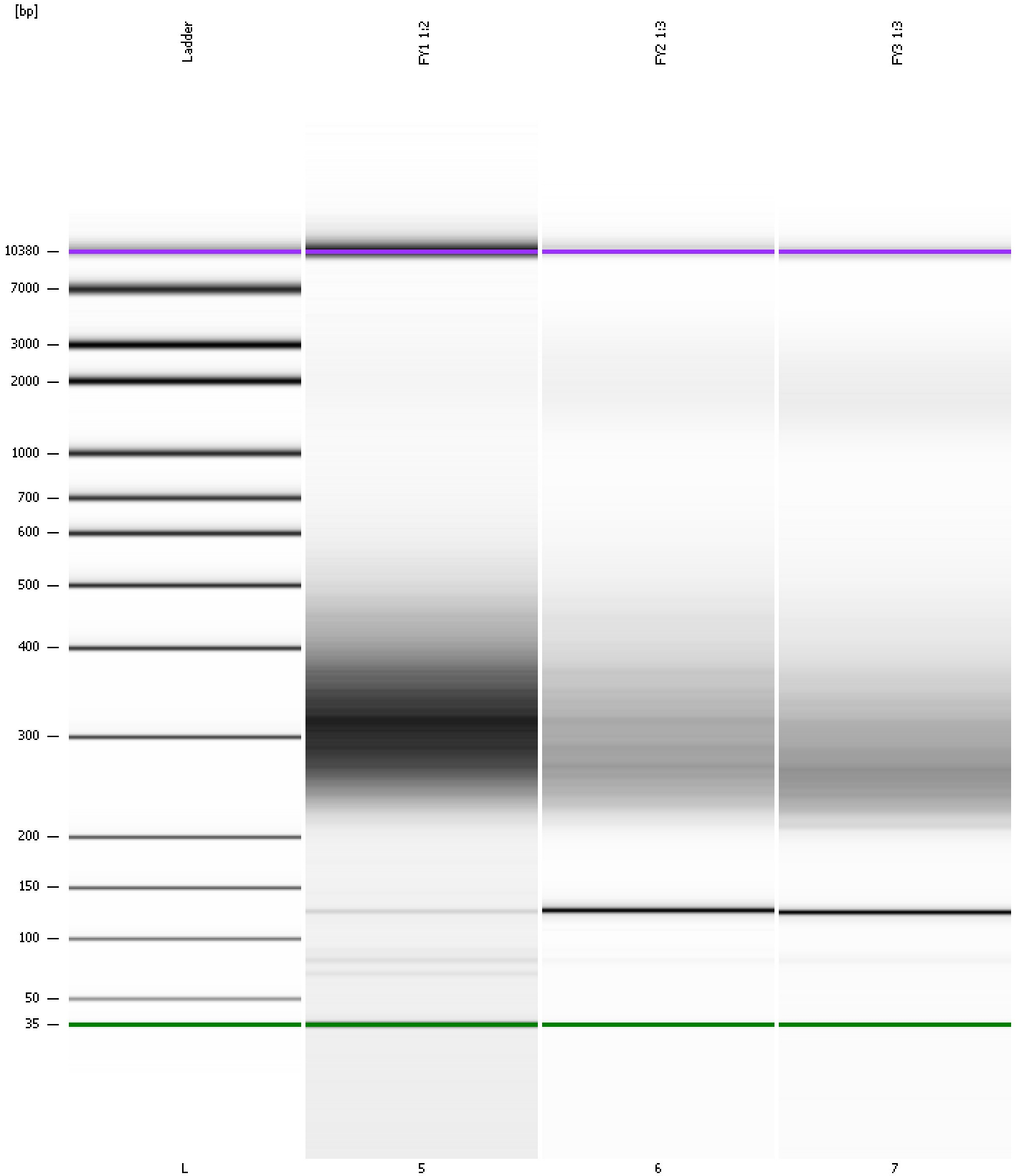
... Region table for sample 7 : FY3 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
111	141	126	11,682.5	971.77	 302.7	10	2.5
200	513	302	31,882.9	6,047.43	 2,359.3	79	20.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 PM

Gel Image

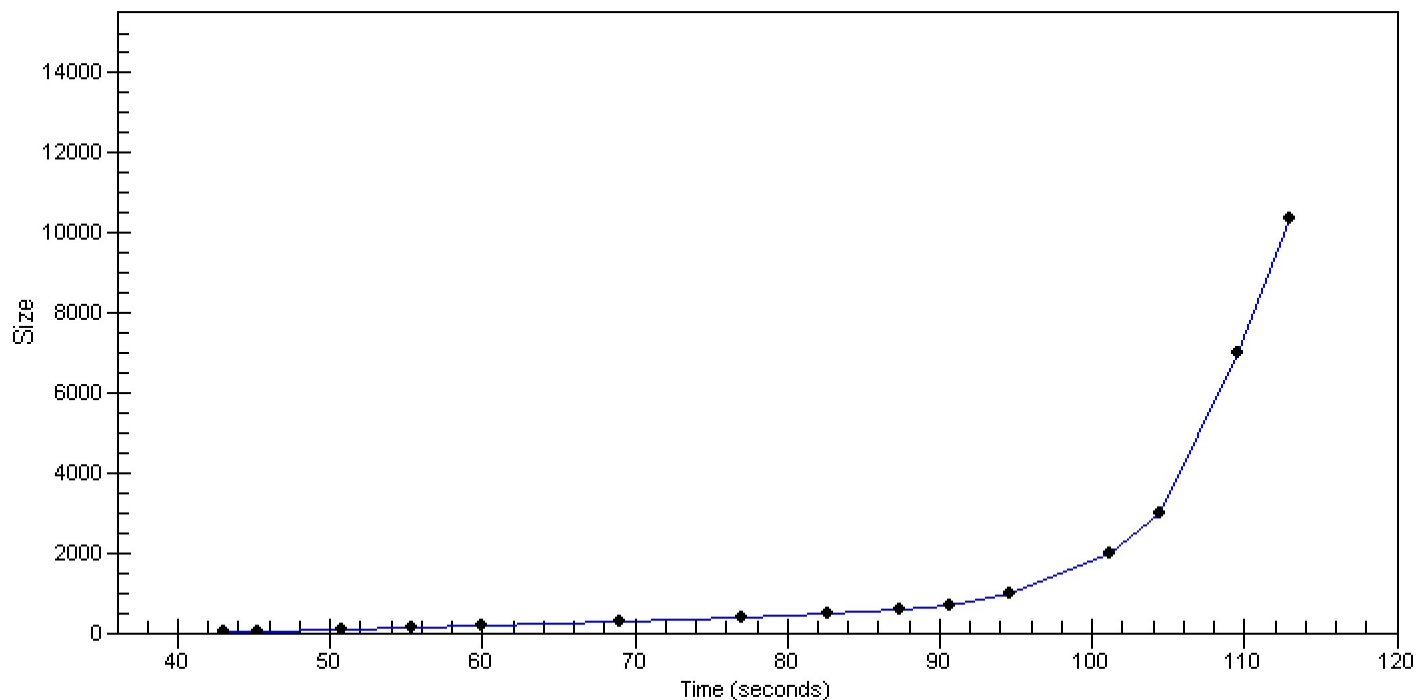


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad

Created: 3/27/2014 1:17:45 PM
Modified: 4/1/2014 3:21:59 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 3/27/2014 1:17:45 PM
 Data Path: C:\...nd Settings\Bioanalyzer\2014-03-27\2014-03-27_005_cheng.xad Modified: 4/1/2014 3:21:59 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		3/27/2014 1:58:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-27\2014-03-27_005.xad)		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2014 1:17:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1