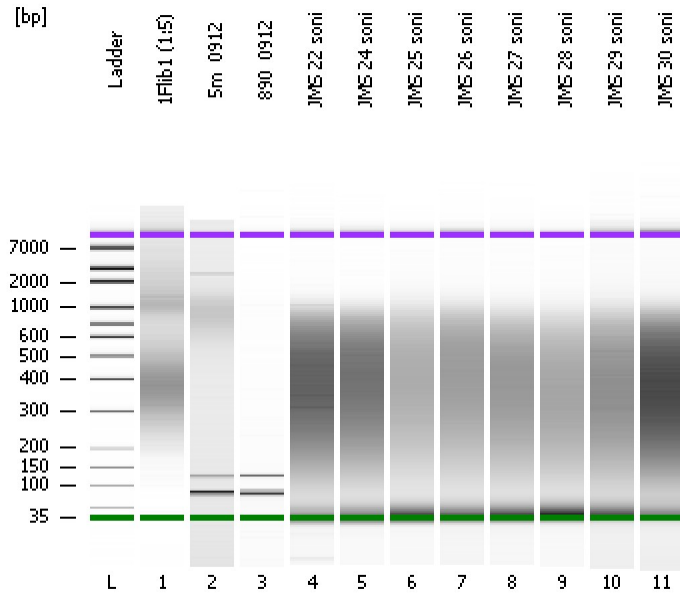


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
Modified: 7/25/2014 12:06:00 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

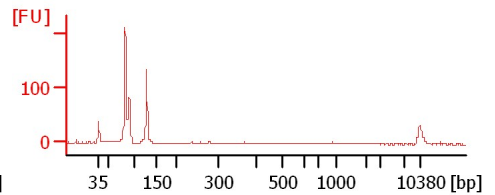
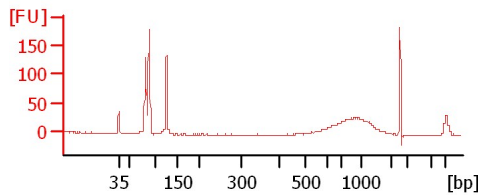
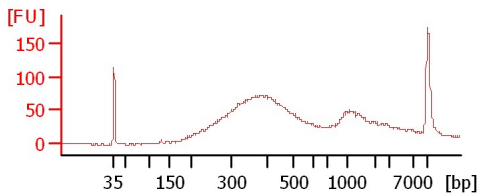
Chip Information:

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

1Flib1 (1:5)

5m_0912

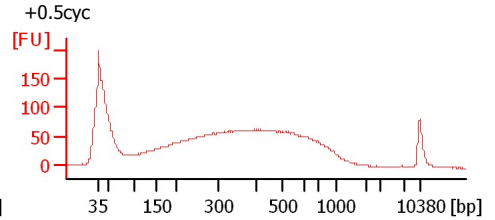
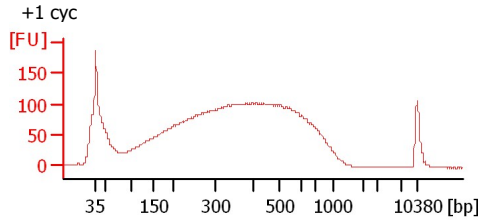
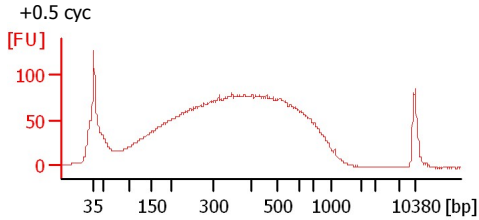
890_0912



JMS 22 soni

JMS 24 soni

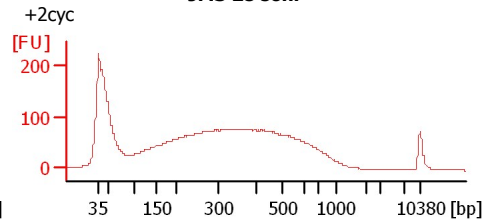
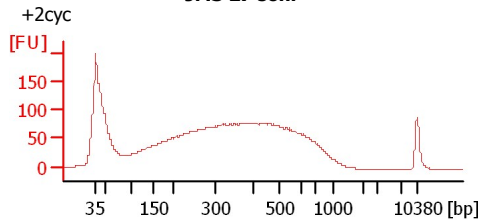
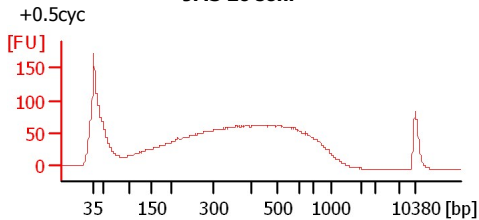
JMS 25 soni



JMS 26 soni

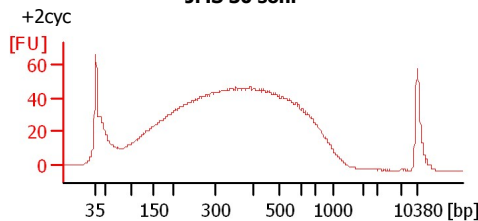
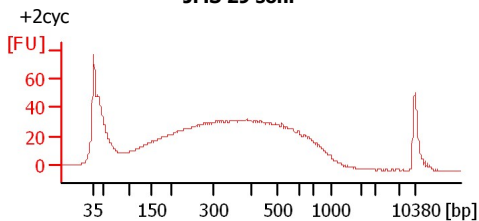
JMS 27 soni

JMS 28 soni



JMS 29 soni

JMS 30 soni



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1Flib1 (1:5)		<input type="checkbox"/>	✓			
5m_0912		<input type="checkbox"/>	✓			
890_0912		<input type="checkbox"/>	✓			
JMS 22 soni	+0.5 cyc	<input type="checkbox"/>	✓			
JMS 24 soni	+1 cyc	<input type="checkbox"/>	✓			
JMS 25 soni	+0.5cyc	<input type="checkbox"/>	✓			
JMS 26 soni	+0.5cyc	<input type="checkbox"/>	✓			
JMS 27 soni	+2cyc	<input type="checkbox"/>	✓			
JMS 28 soni	+2cyc	<input type="checkbox"/>	✓			
JMS 29 soni	+2cyc	<input type="checkbox"/>	✓			
JMS 30 soni	+2cyc	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
Modified: 7/25/2014 12:06:00 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

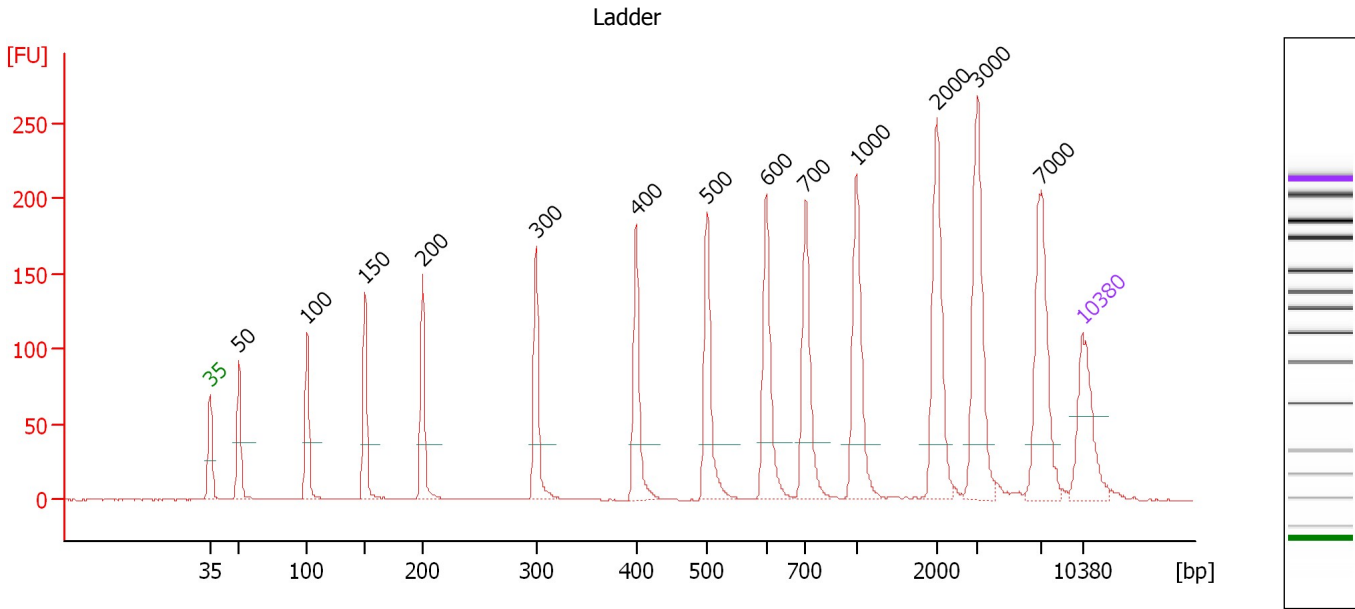
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

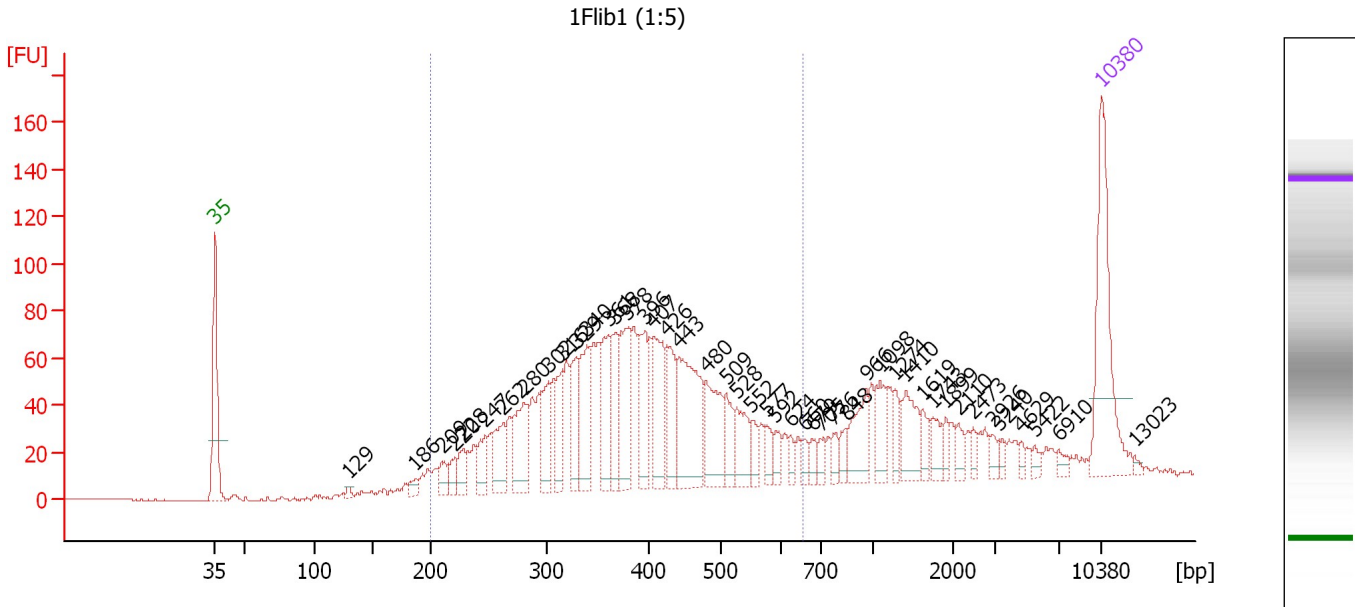
Peak table for Ladder

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:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1Flib1 (1:5)

Number of peaks found: 46 Corr. Area 1: 1,613.6
 Noise: 0.2

Peak table for sample 1 : 1Flib1 (1:5)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	3.69	43.3	
3	186	8.36	68.1	
4	209	14.17	102.7	
5	220	12.05	83.1	
6	228	17.29	115.1	
7	247	22.54	138.5	
8	262	35.81	206.8	
9	280	53.64	289.8	
10	302	32.23	161.7	
11	316	32.24	154.8	
12	329	39.76	182.9	
13	340	50.87	226.9	
14	361	42.84	180.0	
15	368	38.08	156.8	
16	378	58.24	233.5	
17	396	42.42	162.2	
18	407	55.56	206.7	
19	426	38.59	137.3	
20	443	89.42	306.0	
21	480	49.31	155.5	
22	509	22.28	66.3	
23	528	29.04	83.3	
24	552	11.37	31.2	
25	577	12.13	31.9	
26	592	9.52	24.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 1 : 1Flib1 (1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	624	7.30	17.7	
28	660	7.42	17.0	
29	679	7.38	16.5	
30	705	7.54	16.2	
31	776	8.33	16.3	
32	848	9.11	16.3	
33	966	29.61	46.4	
34	1,098	21.92	30.3	
35	1,274	10.95	13.0	
36	1,410	26.84	28.8	
37	1,619	10.76	10.1	
38	1,743	10.47	9.1	
39	1,899	6.97	5.6	
40	2,110	7.24	5.2	
41	2,473	5.20	3.2	
42	2,926	5.76	3.0	
43	3,240	4.36	2.0	
44	4,629	3.47	1.1	
45	5,422	4.47	1.2	
46	6,910	4.72	1.0	
47	 10,380	75.00	10.9	Upper Marker
48	13,023	0.00	0.0	

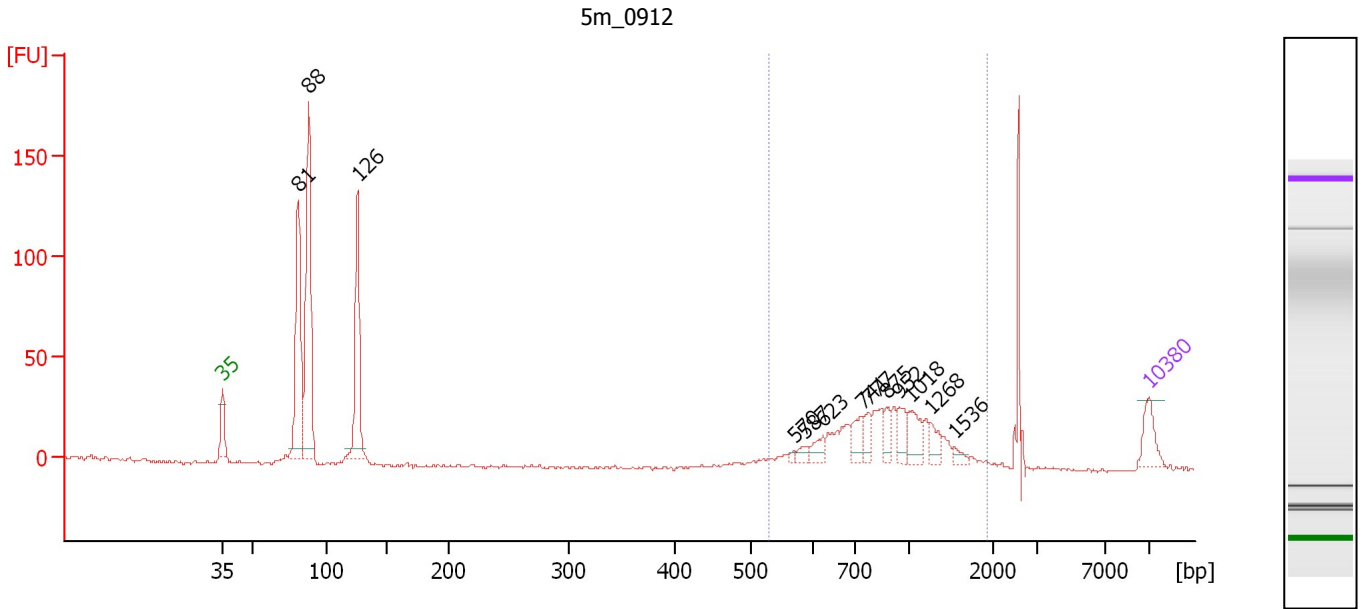
Region table for sample 1 : 1Flib1 (1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	655	389	4,493.1	1,051.85	 1,613.6	75	25.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 5m_0912

Number of peaks found: 13 Corr. Area 1: 300.6
 Noise: 0.8

Peak table for sample 2 : 5m_0912

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	683.04	12,806.3	
3	88	881.73	15,151.3	
4	126	501.71	6,038.6	
5	570	10.75	28.6	
6	587	29.75	76.7	
7	623	49.67	120.7	
8	741	75.26	153.9	
9	777	50.40	98.3	
10	875	53.29	92.3	
11	952	65.09	103.6	
12	1,018	93.93	139.8	
13	1,268	46.87	56.0	
14	1,536	21.05	20.8	
15	10,380	75.00	10.9	Upper Marker

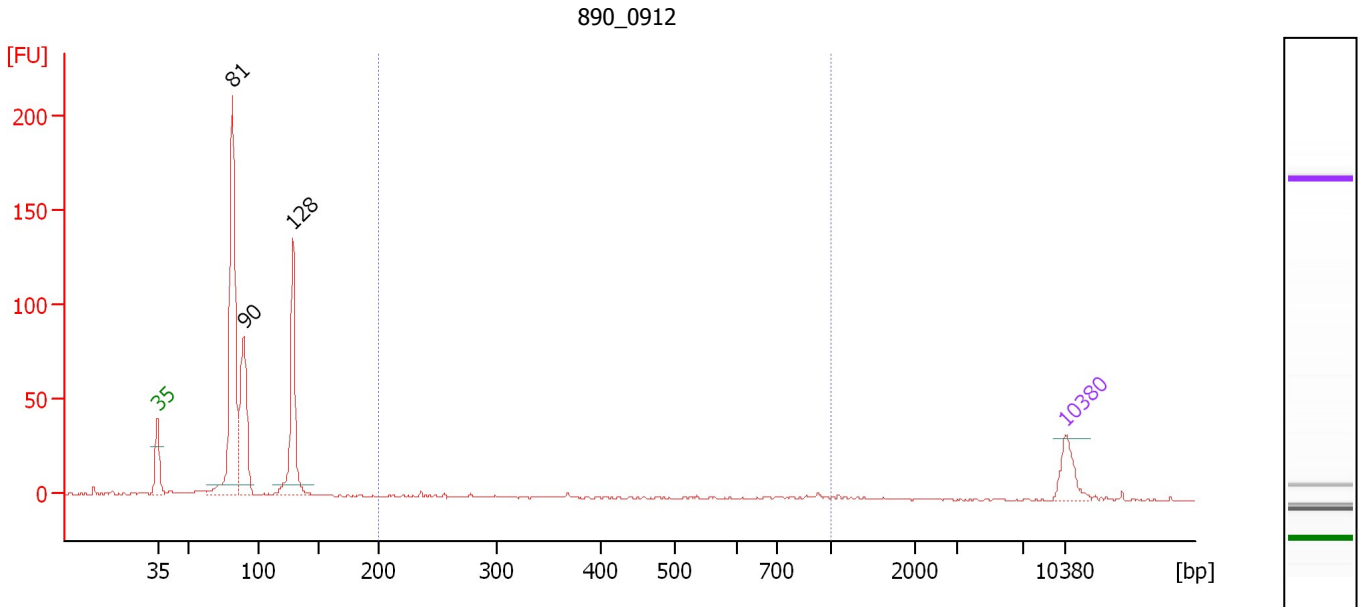
Region table for sample 2 : 5m_0912

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
530	1,929	930	1,654.4	915.85	300.6	39	31.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
 Modified: 7/25/2014 12:06:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 890_0912

Number of peaks found: 3 Corr. Area 1: 1.8
 Noise: 0.5

Peak table for sample 3 : 890_0912

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	1,007.30	18,744.7	
3	90	451.07	7,636.3	
4	128	462.86	5,459.0	
5	10,380	75.00	10.9	Upper Marker

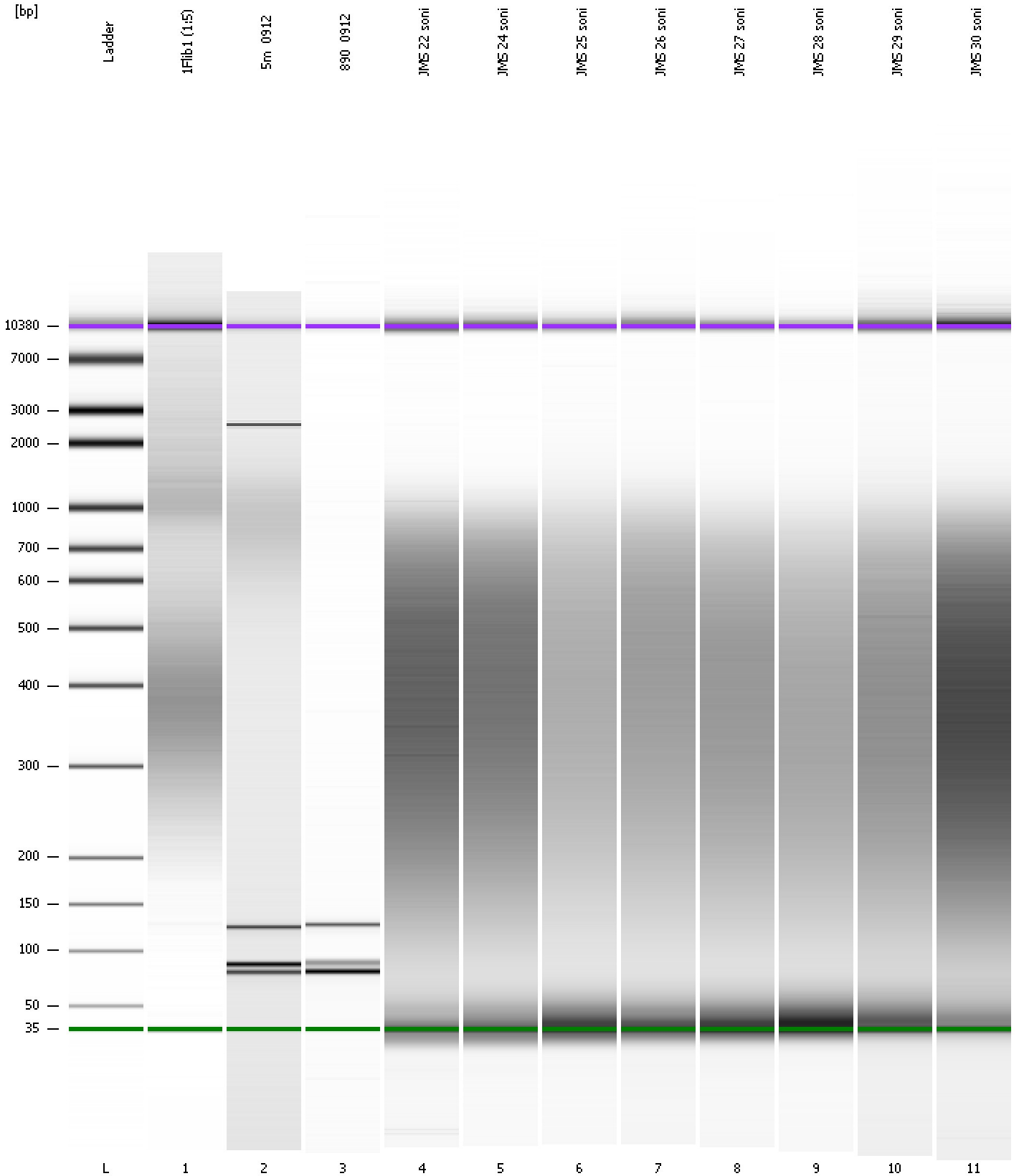
Region table for sample 3 : 890_0912

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	584	21.3	5.20	1.8	0	52.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
Modified: 7/25/2014 12:06:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-25\2014-07-25_002.xad

Created: 7/25/2014 11:22:43 AM
 Modified: 7/25/2014 12:06:00 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		7/25/2014 12:03:10 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\2014-07-25\2014-07-25_002.xad)		Instrument	Run		7/25/2014 11:22:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/25/2014 11:22:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2014 11:22:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2014 11:22:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/25/2014 11:22:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2014 11:22:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2014 11:22:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1