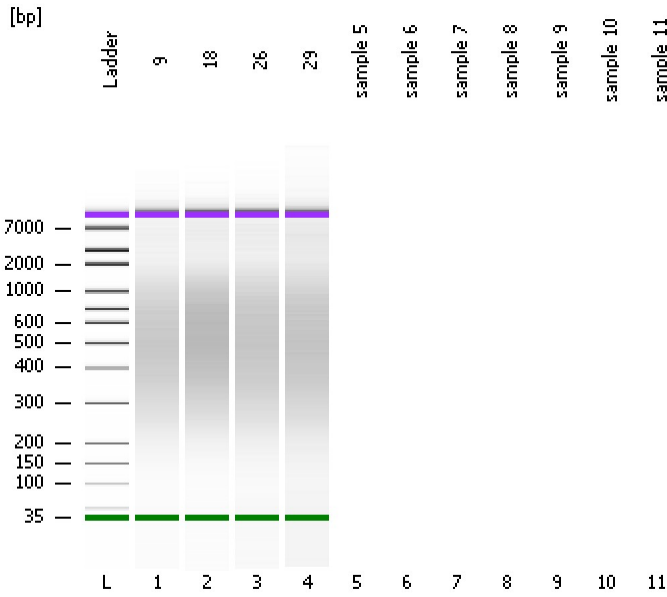


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 PM

Electrophoresis File Run Summary



Instrument Information:

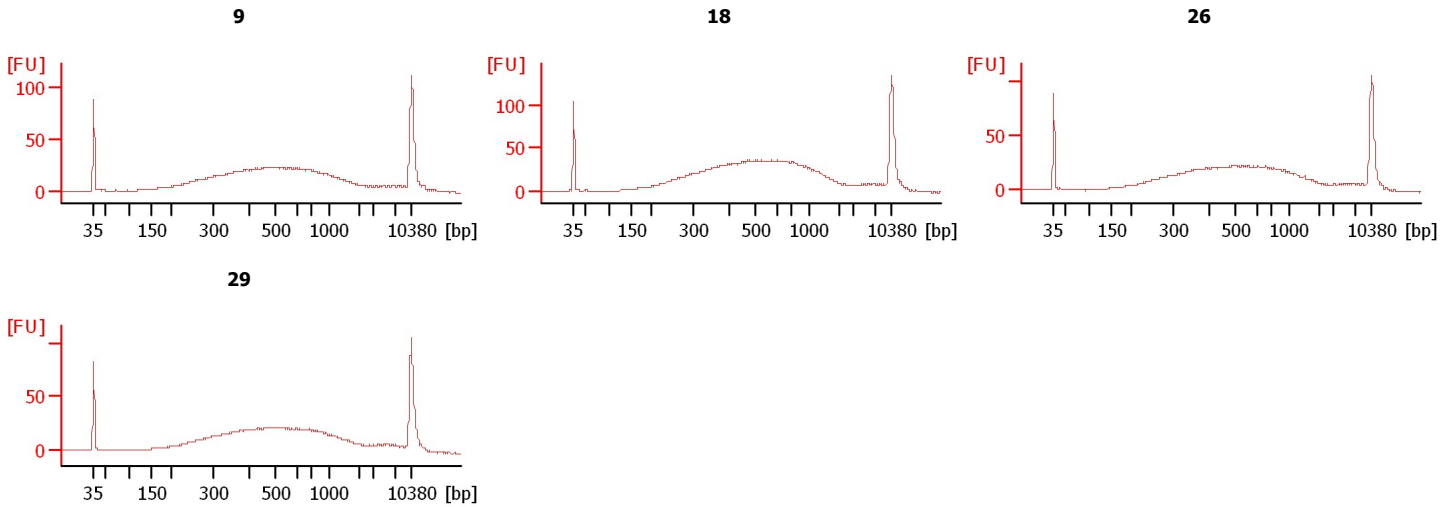
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9		<input type="checkbox"/>	✓			
18		<input type="checkbox"/>	✓			
26		<input type="checkbox"/>	✓			
29		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 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

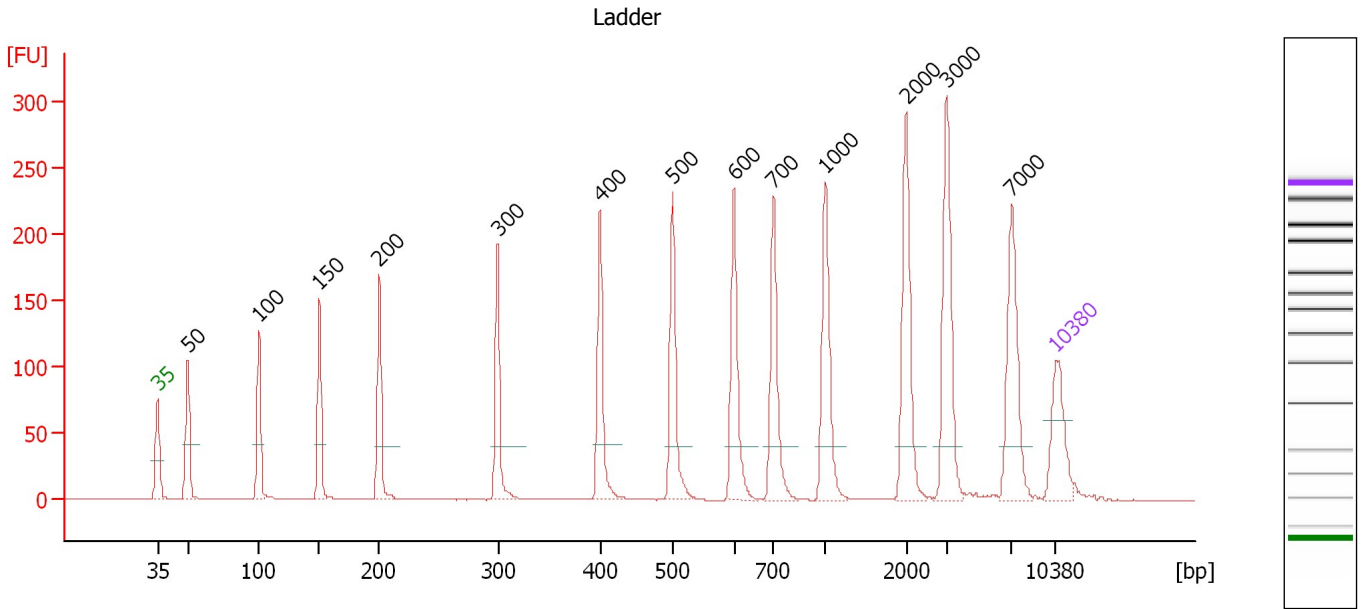
Ladder

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\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

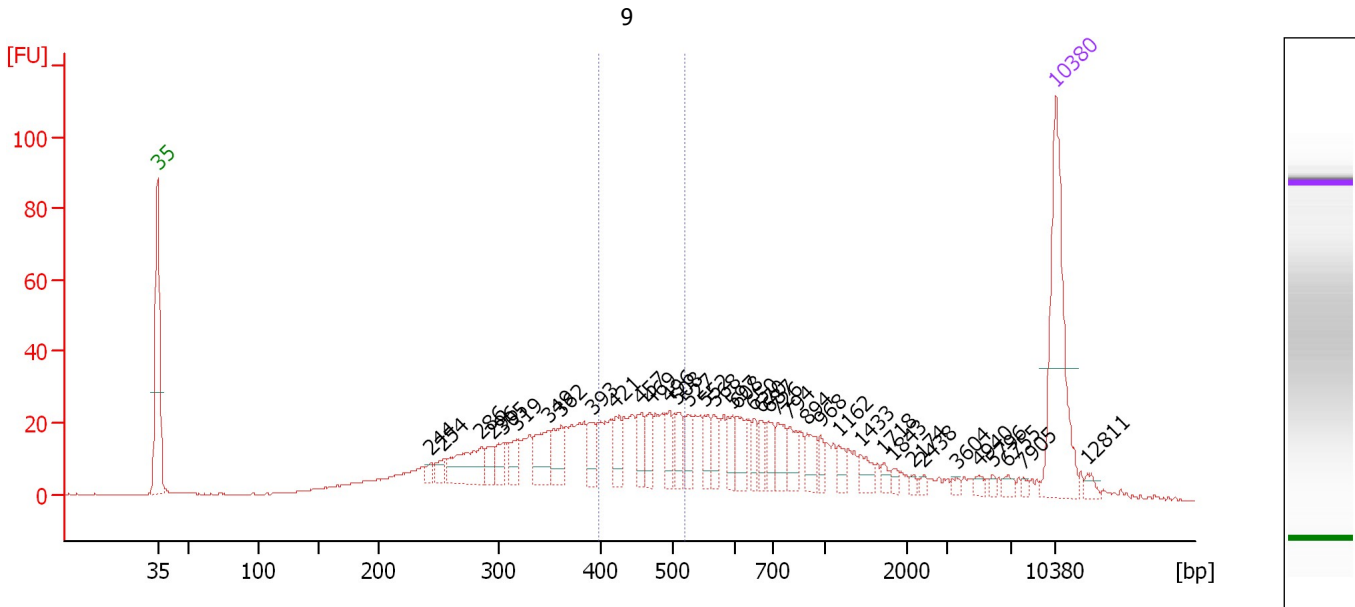
Peak table for Ladder

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:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 9

Number of peaks found: 38 Corr. Area 1: 195.6
 Noise: 0.1

Peak table for sample 1 : 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	5.64	35.1	
3	254	9.06	54.0	
4	286	38.50	203.7	
5	296	11.69	59.8	
6	305	13.17	65.4	
7	319	14.58	69.3	
8	349	25.41	110.4	
9	362	21.68	90.7	
10	393	15.09	58.2	
11	421	15.99	57.5	
12	457	17.23	57.1	
13	469	13.24	42.8	
14	496	14.29	43.7	
15	508	16.94	50.5	
16	527	13.28	38.2	
17	552	12.73	35.0	
18	568	12.41	33.1	
19	597	12.76	32.4	
20	608	15.09	37.6	
21	650	10.61	24.7	
22	670	10.52	23.8	
23	687	11.84	26.1	
24	726	15.95	33.3	
25	794	13.63	26.0	
26	894	13.42	22.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad


Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	968	6.82	10.7	
28	1,162	7.25	9.5	
29	1,433	9.19	9.7	
30	1,718	3.97	3.5	
31	1,843	3.19	2.6	
32	2,174	2.06	1.4	
33	2,438	1.94	1.2	
34	3,604	2.20	0.9	
35	4,940	2.76	0.8	
36	5,796	2.09	0.5	
37	6,755	3.45	0.8	
38	7,905	1.89	0.4	
39	10,380	75.00	10.9	Upper Marker
40	12,811	0.00	0.0	

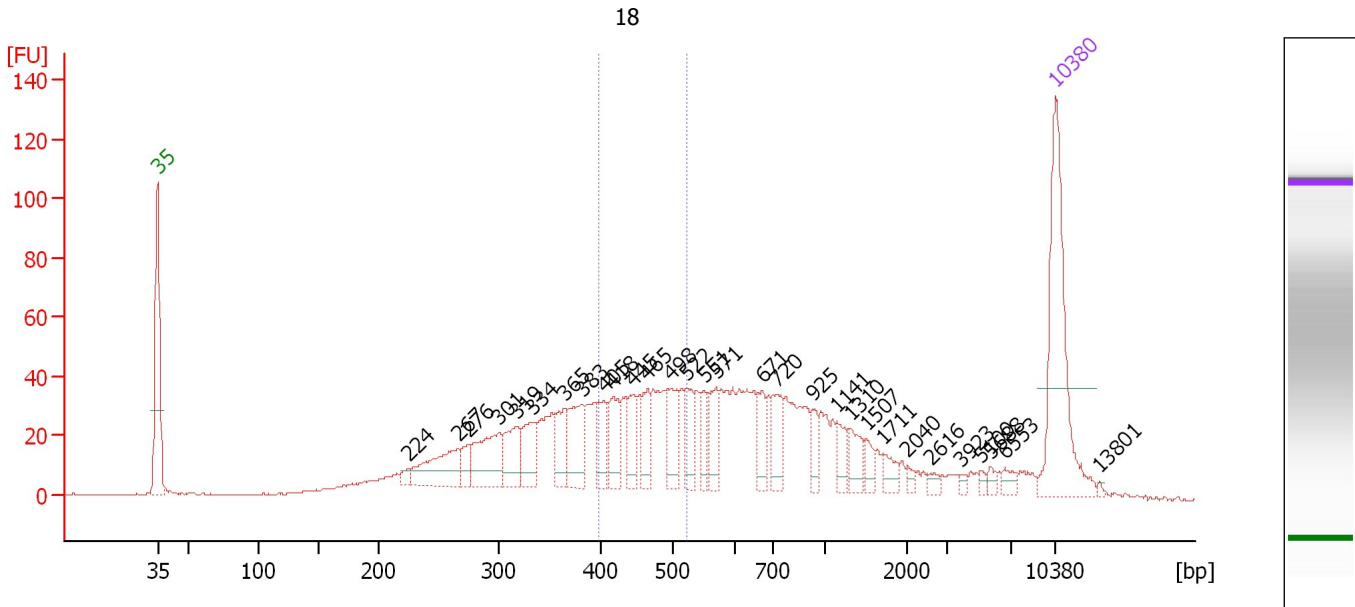
Region table for sample 1 : 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
399	519	458	570.2	172.00	 195.6	20	7.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 18

Number of peaks found: 30 Corr. Area 1: 308.9
 Noise: 0.3

Peak table for sample 2 : 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	5.09	34.4	
3	267	40.30	228.7	
4	276	11.39	62.6	
5	301	41.78	210.6	
6	319	27.00	128.1	
7	334	23.45	106.4	
8	365	21.12	87.7	
9	383	32.31	128.0	
10	405	19.87	74.3	
11	418	24.67	89.5	
12	445	19.50	66.4	
13	465	19.92	64.8	
14	498	24.85	75.7	
15	522	19.44	56.4	
16	551	13.96	38.3	
17	571	17.96	47.7	
18	671	16.00	36.1	
19	720	20.36	42.9	
20	925	10.21	16.7	
21	1,141	10.54	14.0	
22	1,310	12.92	14.9	
23	1,507	6.99	7.0	
24	1,711	7.82	6.9	
25	2,040	2.79	2.1	
26	2,616	3.05	1.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad


Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,923	1.91	0.7	
28	5,100	2.35	0.7	
29	5,688	3.19	0.8	
30	6,553	4.61	1.1	
31	10,380	75.00	10.9	Upper Marker
32	13,801	0.00	0.0	

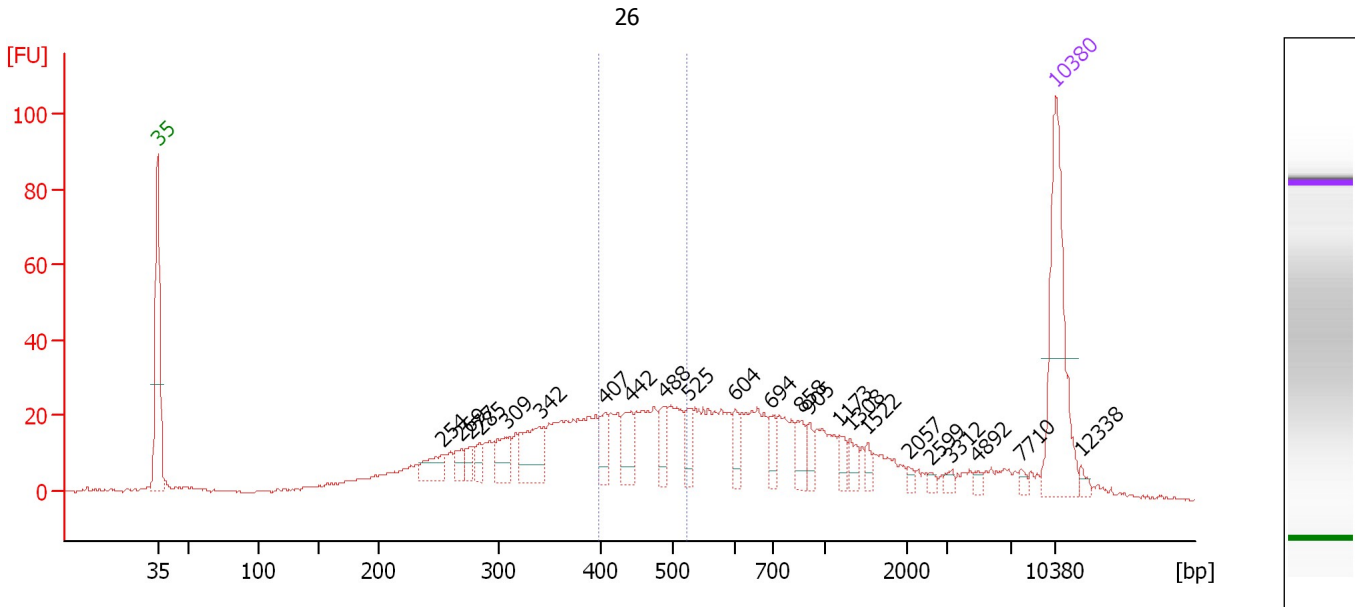
Region table for sample 2 : 18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
398	523	459	649.7	196.23	 308.9	20	7.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 26

Number of peaks found: 23 Corr. Area 1: 194.2
 Noise: 0.3

Peak table for sample 3 : 26


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	19.34	115.3	
3	269	10.46	58.8	
4	277	8.73	47.8	
5	285	9.49	50.5	
6	309	20.05	98.1	
7	342	38.74	171.6	
8	407	15.52	57.8	
9	442	21.45	73.5	
10	488	14.29	44.4	
11	525	12.52	36.1	
12	604	11.00	27.6	
13	694	11.34	24.8	
14	858	12.32	21.7	
15	905	8.85	14.8	
16	1,173	7.70	10.0	
17	1,308	8.29	9.6	
18	1,522	5.43	5.4	
19	2,057	2.96	2.2	
20	2,599	2.72	1.6	
21	3,312	3.26	1.5	
22	4,892	2.51	0.8	
23	7,710	2.89	0.6	
24	10,380	75.00	10.9	Upper Marker
25	12,338	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...

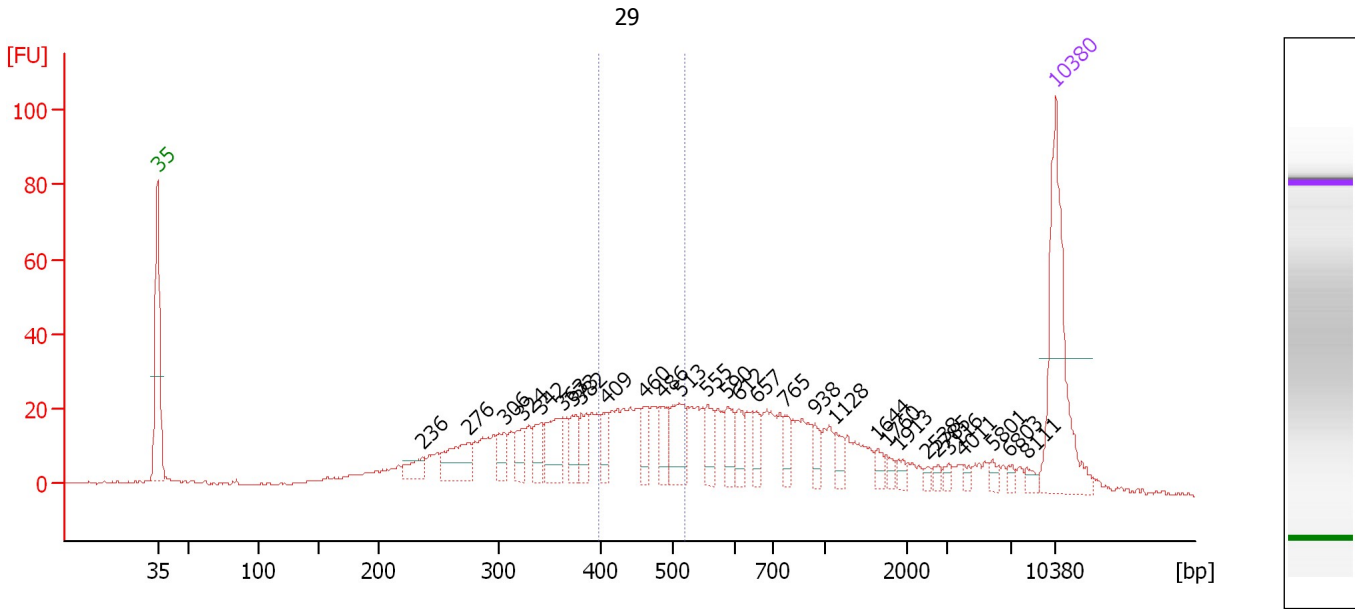
... Region table for sample 3 : 26

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
398	522	459	559.1	168.76	 194.2	19	7.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 29

Number of peaks found: 29 Corr. Area 1: 165.7
 Noise: 0.4

Peak table for sample 4 : 29

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	13.97	89.6	
3	276	32.29	177.4	
4	306	14.64	72.5	
5	324	13.52	63.2	
6	342	15.36	67.9	
7	363	28.85	120.6	
8	373	15.69	63.8	
9	382	15.60	61.9	
10	409	13.46	49.8	
11	460	13.21	43.5	
12	486	17.98	56.1	
13	513	27.84	82.3	
14	555	15.46	42.2	
15	590	15.35	39.4	
16	612	12.42	30.7	
17	657	11.41	26.3	
18	765	9.75	19.3	
19	938	8.22	13.3	
20	1,128	8.73	11.7	
21	1,644	5.25	4.8	
22	1,760	4.05	3.5	
23	1,913	4.06	3.2	
24	2,538	2.42	1.4	
25	2,785	2.70	1.5	
26	3,116	2.97	1.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : 29

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,011	2.81	1.1	
28	5,801	3.72	1.0	
29	6,803	2.96	0.7	
30	8,111	3.61	0.7	
31	10,380	75.00	10.9	Upper Marker

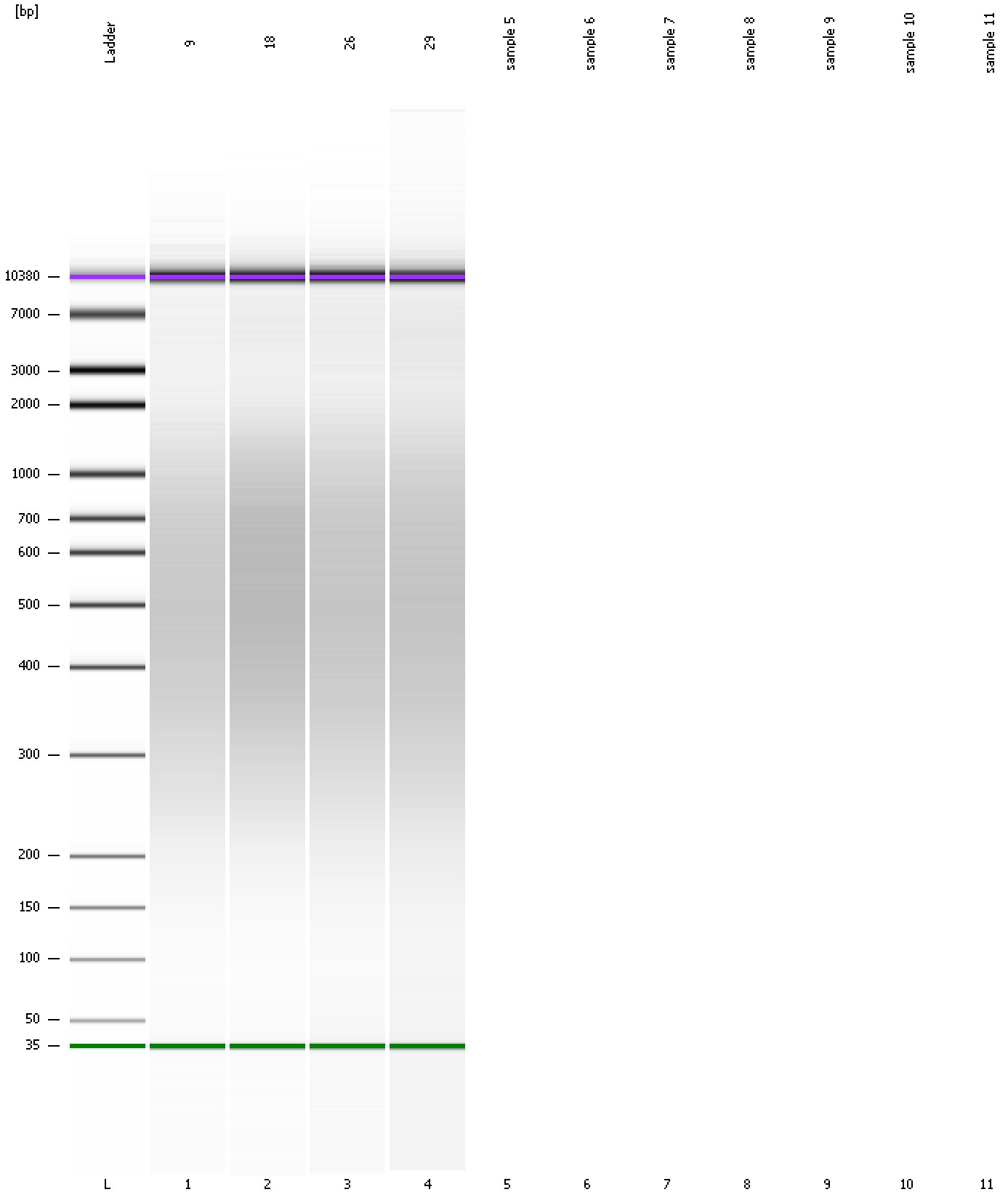
Region table for sample 4 : 29

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
399	521	459	459.6	138.78	165.7	21	7.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
Modified: 8/7/2014 4:16:00 PM

Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

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:\... bioanalyzer\2100 expert\data\2014-07-31\2014-07-31_001.xad

Created: 7/31/2014 10:13:10 AM
 Modified: 8/7/2014 4:16:00 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		7/31/2014 10:34:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_001.xad)		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/31/2014 10:13:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1