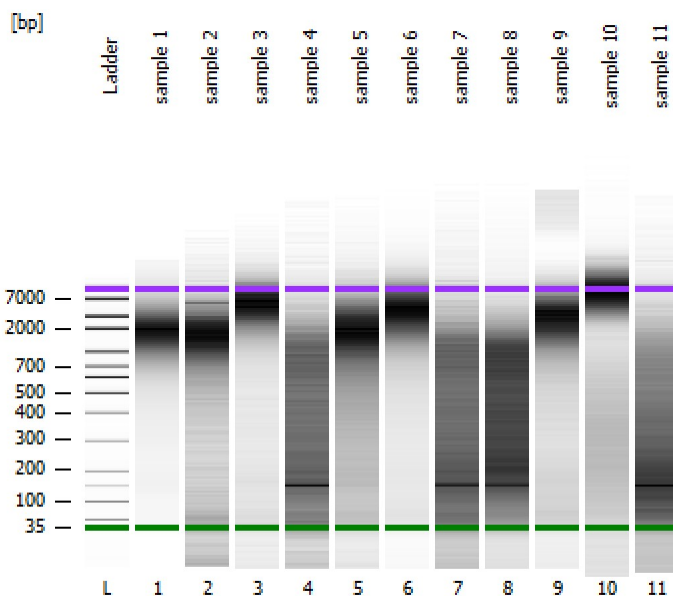


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE04103186
Serial#: DE04103186

Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay

Version: 1.03

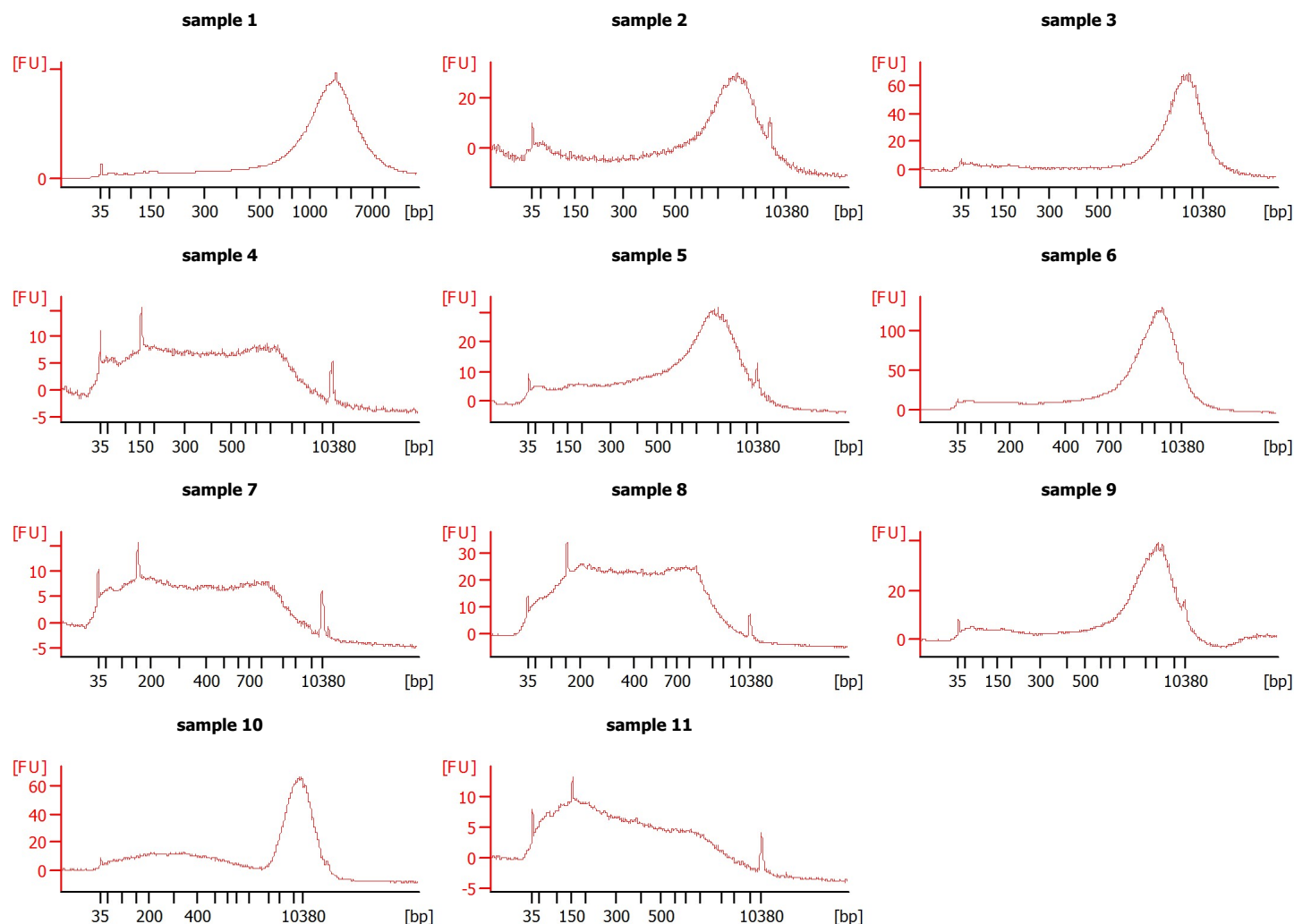
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #: RF19BK50

Reagent Kit Lot #: 1326

Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<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 #

RF19BK50

Reagent Kit Lot #

1326

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

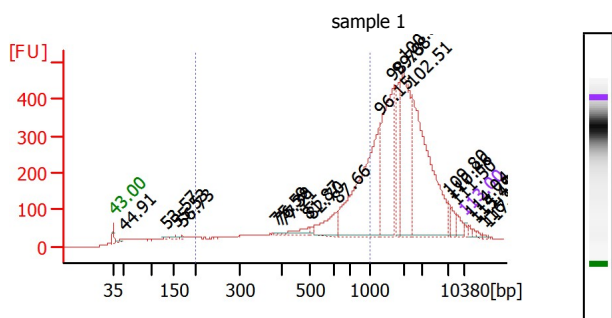
Ladder

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:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

Electropherogram Summary



Overall Results for sample 1 : sample 1

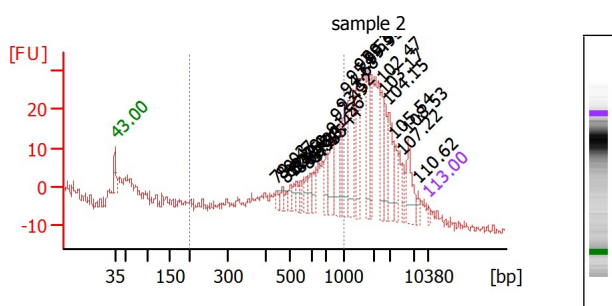
Number of peaks found: 23
Noise: 0.3
Corr. Area 1: 2,330.9

Region table for sample 1 : sample 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,330.9	28	638	35.1	8,855.74	27,379.9	Blue

Peak table for sample 1 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	170.35	5,396.8	
3	134	77.73	879.2	
4	156	136.93	1,333.2	
5	169	53.29	477.5	
6	388	23.33	91.0	
7	398	22.96	87.4	
8	412	26.06	95.9	
9	493	369.07	1,134.7	
10	509	73.58	219.0	
11	624	936.02	2,274.2	
12	1,277	4,958.61	5,884.3	
13	1,655	3,087.51	2,825.9	
14	1,796	768.31	648.2	
15	1,973	3,064.27	2,353.2	
16	2,405	4,950.59	3,119.0	
17	7,009	172.19	37.2	
18	7,709	211.46	41.6	
19	8,804	219.72	37.8	
20	10,380	75.00	10.9	Upper Marker
21	11,475	0.00	0.0	
22	12,263	0.00	0.0	
23	12,919	0.00	0.0	
24	14,408	0.00	0.0	
25	15,459	0.00	0.0	

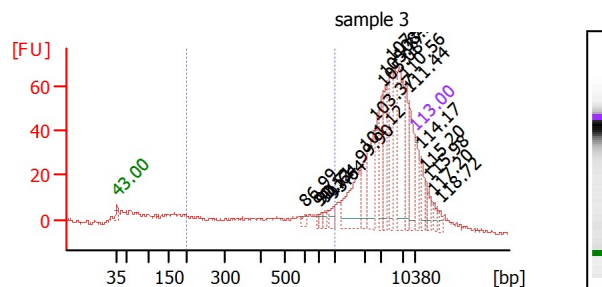


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

Electropherogram Summary Continued ...

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	6,022	915.62	230.4	
27	7,879	137.63	26.5	
28	10,380	75.00	10.9	Upper Marker

**Overall Results for sample 3 : sample 3**

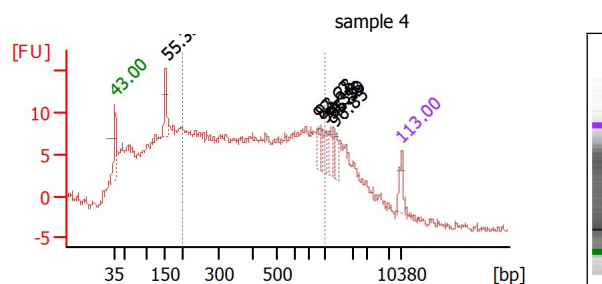
Number of peaks found: 19
Noise: 0.6
Corr. Area 1: 152.2

Region table for sample 3 : sample 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	152.2	14	547	41.4	437.60	1,618.8	Blue

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	603	15.62	39.3	
3	704	13.90	29.9	
4	746	12.18	24.8	
5	812	17.99	33.6	
6	956	27.47	43.5	
7	1,828	187.18	155.2	
8	2,013	74.82	56.3	
9	2,646	175.21	100.3	
10	3,352	114.46	51.7	
11	3,882	91.63	35.8	
12	5,095	155.34	46.2	
13	6,345	234.28	55.9	
14	7,809	111.99	21.7	
15	8,734	144.40	25.0	
16	10,380	75.00	10.9	Upper Marker
17	11,614	0.00	0.0	
18	12,694	0.00	0.0	
19	13,517	0.00	0.0	
20	14,803	0.00	0.0	
21	16,397	0.00	0.0	

**Overall Results for sample 4 : sample 4**

Number of peaks found: 7
Noise: 0.4
Corr. Area 1: 389.5

Region table for sample 4 : sample 4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	389.5	55	466	43.2	6,988.51	29,361.2	Blue

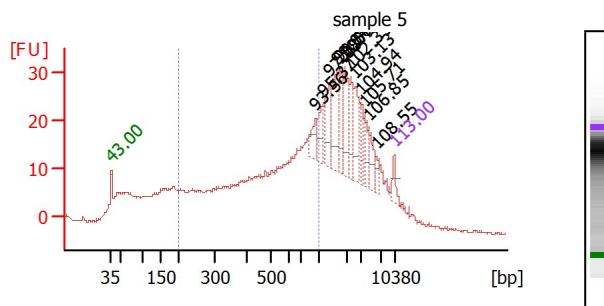
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
 Modified: 1/17/2014 3:00:07 PM

Electropherogram Summary Continued ...

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	236.26	2,333.4	
3	883	58.13	99.8	
4	930	73.03	119.0	
5	1,014	62.94	94.1	
6	1,193	81.91	104.0	
7	1,313	51.32	59.2	
8	1,380	57.05	62.6	
9	10,380	75.00	10.9	Upper Marker



Overall Results for sample 5 : sample 5

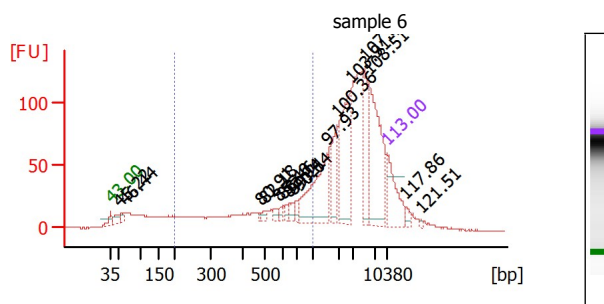
Number of peaks found: 12
 Noise: 0.3
 Corr. Area 1: 442.0

Region table for sample 5 : sample 5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	442.0	42	533	40.8	5,550.33	20,649.4	Blue

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	950	129.55	206.6	
3	1,163	178.78	232.9	
4	1,414	257.46	276.0	
5	1,702	343.38	305.7	
6	1,778	198.73	169.4	
7	1,975	285.46	219.0	
8	2,359	147.29	94.6	
9	2,577	206.20	121.2	
10	3,239	98.62	46.1	
11	3,840	120.07	47.4	
12	4,721	148.50	47.7	
13	6,044	67.07	16.8	
14	10,380	75.00	10.9	Upper Marker



Overall Results for sample 6 : sample 6

Number of peaks found: 16
 Noise: 0.3
 Corr. Area 1: 600.4

Region table for sample 6 : sample 6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	600.4	24	542	41.2	445.49	1,650.5	Blue

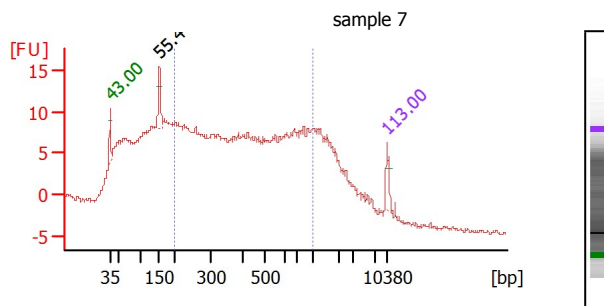
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
 Modified: 1/17/2014 3:00:07 PM

Electropherogram Summary Continued ...

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	27.44	833.7	
3	61	17.56	433.5	
4	476	3.88	12.3	
5	498	7.48	22.8	
6	567	11.36	30.3	
7	590	7.03	18.0	
8	633	9.24	22.1	
9	673	15.25	34.4	
10	740	14.63	29.9	
11	1,539	140.39	138.2	
12	1,896	60.43	48.3	
13	2,797	165.95	89.9	
14	5,105	76.31	22.6	
15	6,007	198.85	50.2	
16	10,380	75.00	10.9	Upper Marker
17	15,497	0.00	0.0	
18	19,335	0.00	0.0	



Overall Results for sample 7 : sample 7

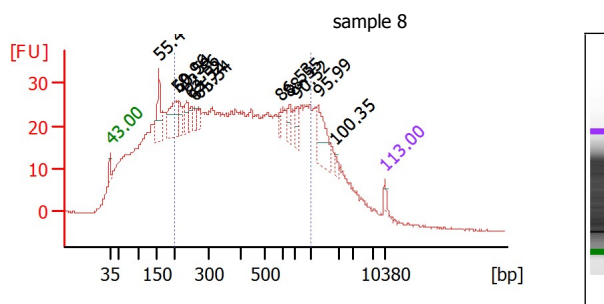
Number of peaks found: 1
 Noise: 0.3
 Corr. Area 1: 401.0

Region table for sample 7 : sample 7

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	401.0	53	463	43.7	6,900.00	29,232.1	Blue

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	202.23	1,978.6	
3	10,380	75.00	10.9	Upper Marker



Overall Results for sample 8 : sample 8

Number of peaks found: 12
 Noise: 0.2
 Corr. Area 1: 1,124.9

Region table for sample 8 : sample 8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,124.9	59	457	43.6	23,964.6	102,393.7	Blue

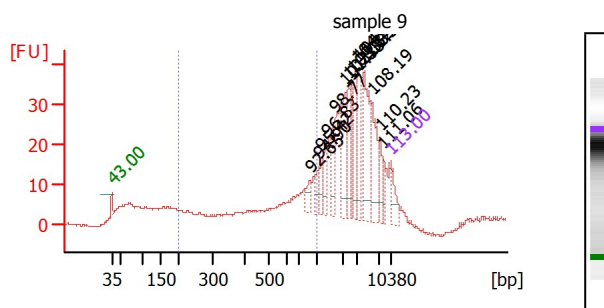
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
 Modified: 1/17/2014 3:00:07 PM

Electropherogram Summary Continued ...

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	809.37	7,931.2	
3	205	873.86	6,455.1	
4	212	332.47	2,379.4	
5	235	368.65	2,381.8	
6	245	178.04	1,099.7	
7	259	129.17	755.3	
8	268	117.13	661.9	
9	592	108.55	277.9	
10	652	152.71	354.9	
11	732	244.86	506.9	
12	1,254	610.32	737.3	
13	1,894	67.81	54.3	
14	10,380	75.00	10.9	Upper Marker

Overall Results for sample 9 : sample 9

Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 143.1

Region table for sample 9 : sample 9

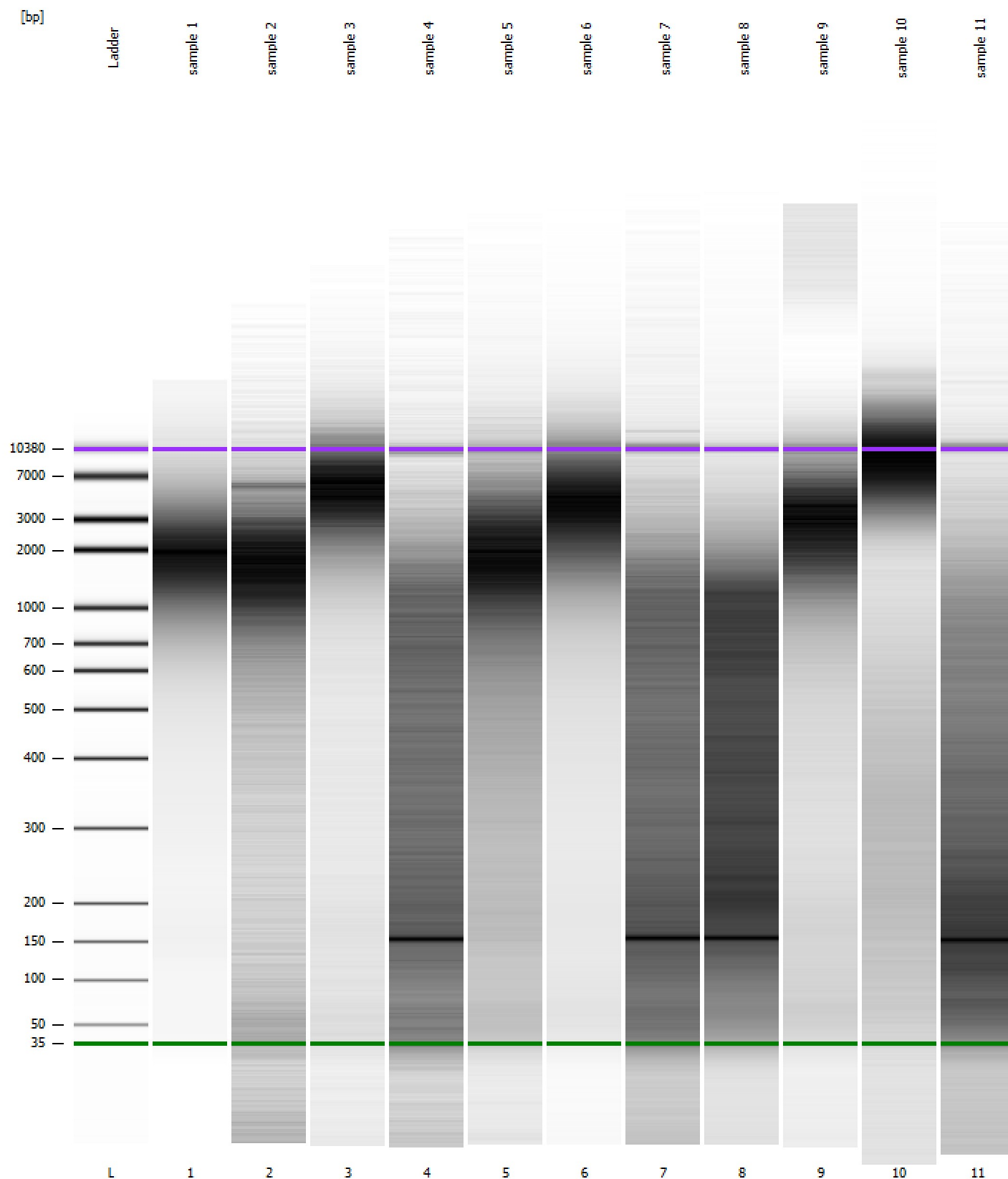
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	143.1	21	579	40.5	775.79	2,778.5	Blue

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	885	56.57	96.9	
3	1,094	67.39	93.3	
4	1,171	40.98	53.0	
5	1,378	76.68	84.3	
6	1,662	114.48	104.4	
7	2,073	153.32	112.1	
8	2,368	91.21	58.4	
9	2,633	106.74	61.4	
10	2,883	126.50	66.5	
11	3,042	120.88	60.2	
12	4,299	255.82	90.2	
13	5,759	175.02	46.0	
14	7,463	55.01	11.2	
15	8,344	36.72	6.7	
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

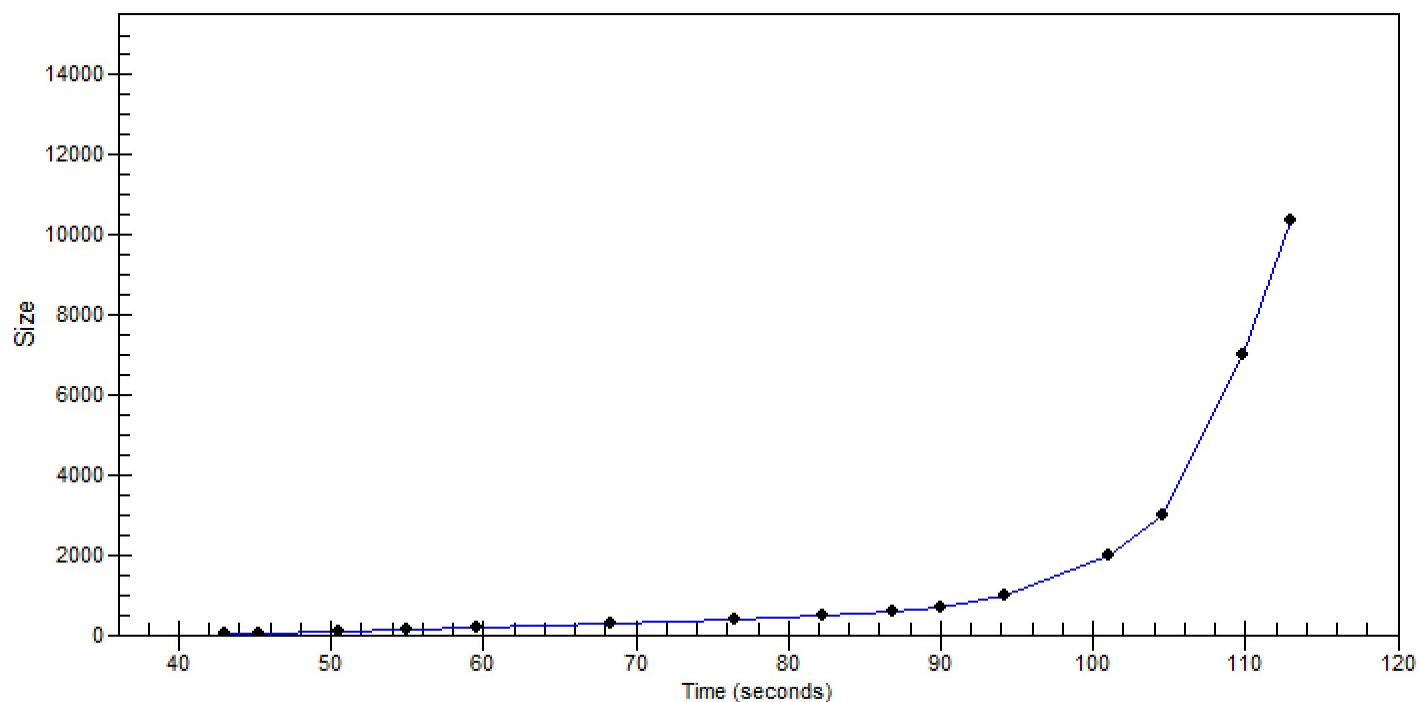
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad

Created: 1/17/2014 2:18:46 PM
Modified: 1/17/2014 3:00:07 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 1/17/2014 2:18:46 PM
 Data Path: C:\...gh Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad Modified: 1/17/2014 3:00:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 4 (Number of wells acquired: 12)		Instrument	Run		1/17/2014 3:00:05 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Run started on port 4 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2014-01-17\2100 expert_High Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad)		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Product Number : G2939A		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Name :		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Vendor : Agilent Technologies		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Serial# : DE04103186		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Firmware : C.01.069		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Cartridge : Electrode		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP