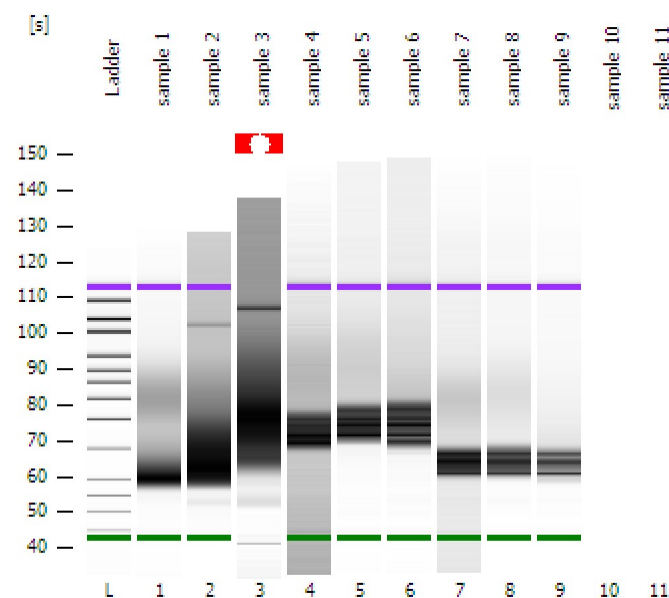


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Electrophoresis File Run Summary



Instrument Information:

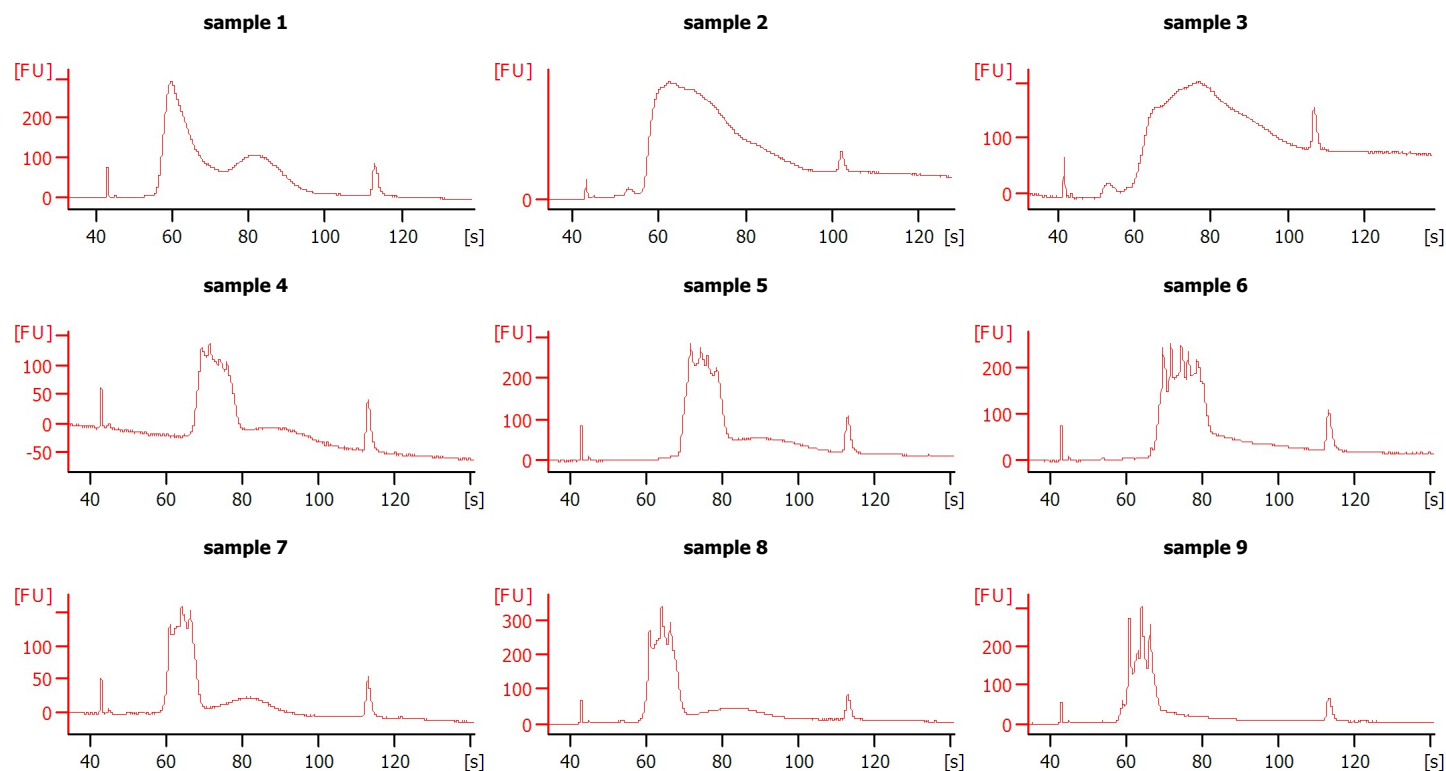
Instrument Name: DE72904985 Firmware: C.01.069
Serial#: DE72904985 Type: G2938C

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:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Sta tus	Observation	Result Label	Result Color
-------------	-------------------	-----------------	------------	-------------	-----------------	--------------

sample 1		☐	✓			
sample 2		☐	✓			
sample 3		☐	✓			
sample 4		☐	✓			
sample 5		☐	✓			
sample 6		☐	✓			
sample 7		☐	✓			
sample 8		☐	✓			
sample 9		☐	✓			
sample 10		☐				
sample 11		☐				
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

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

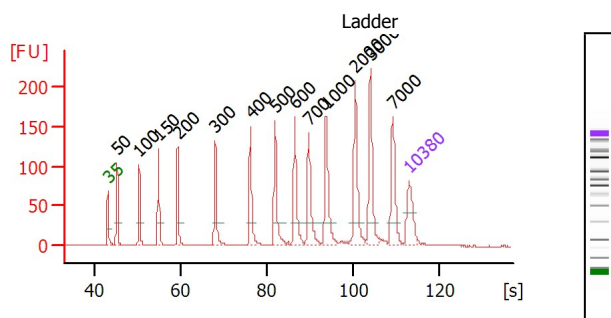
Ladder

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:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
 Modified: 6/22/2012 8:22:30 AM

Electropherogram Summary



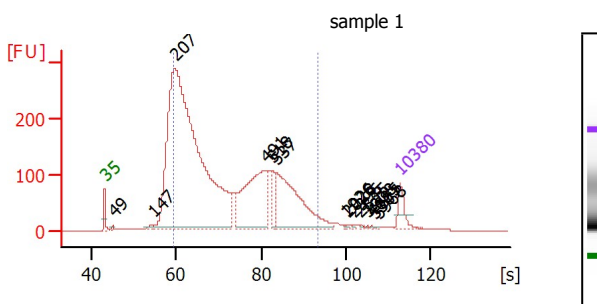
Overall Results for Ladder

Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

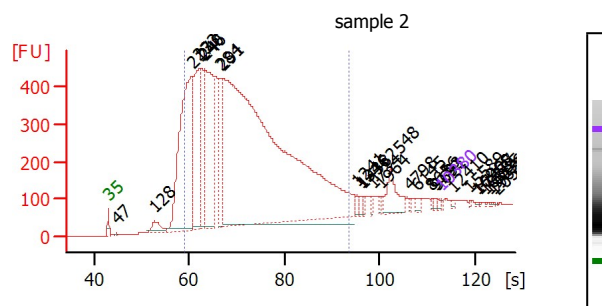


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Electropherogram Summary Continued ...**Peak table for sample 1 :** sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	12.95	401.2	
3	147	19.46	201.2	
4	207	4,452.00	32,653.2	
5	491	687.23	2,121.2	
6	518	87.70	256.4	
7	537	666.29	1,879.3	
8	1,926	3.39	2.7	
9	2,028	3.61	2.7	
10	2,396	3.51	2.2	
11	2,835	3.43	1.8	
12	3,908	2.17	0.8	
13	4,685	3.22	1.0	
14	5,307	1.88	0.5	
15	5,968	1.82	0.5	
16	10,380	75.00	10.9	Upper Marker

**Overall Results for sample 2 :** sample 2

Number of peaks found: 27
Noise: 0.2
Corr. Area 1: 13,381.8

Region table for sample 2 : sample 2

From To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	13,381.85	366	39.9	103,293.34	507,172.9	Blue

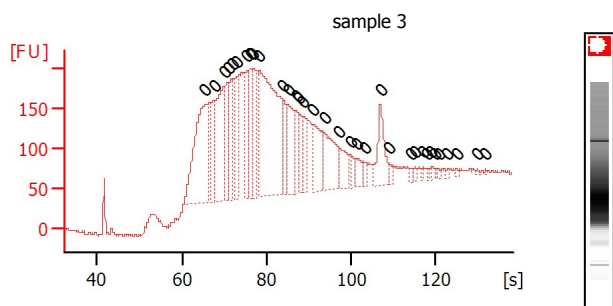
Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	80.28	2,585.0	
3	128	1,325.51	15,635.3	
4	217	20,442.25	142,531.5	
5	233	9,876.89	64,201.2	
6	240	4,215.68	26,645.7	
7	246	13,164.56	80,971.6	
8	284	3,048.44	16,262.1	
9	291	74,586.33	388,822.5	
10	1,241	295.62	360.9	
11	1,346	205.89	231.7	
12	1,438	211.28	222.6	
13	1,734	165.92	145.0	
14	1,964	178.70	137.9	
15	2,548	1,695.37	1,008.3	
16	4,798	125.97	39.8	
17	6,145	183.80	45.3	
18	8,656	96.30	16.9	
19	9,193	91.78	15.1	
20	9,691	102.20	16.0	
21	10,380	75.00	10.9	Upper Marker
22	12,410	0.00	0.0	
23	15,589	0.00	0.0	
24	16,968	0.00	0.0	

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
25	17,427	0.00	0.0	
26	18,385	0.00	0.0	
27	19,036	0.00	0.0	
28	19,687	0.00	0.0	
29	20,530	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

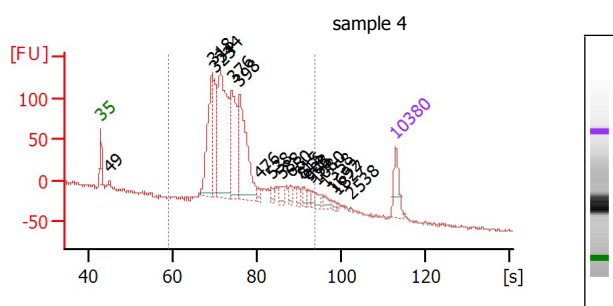
Electropherogram Summary Continued ...**Overall Results for sample 3 :** sample 3

Number of peaks found: 0
Noise: 1.8

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	
34	0	0.00	0.0	

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

Number of peaks found: 19
Noise: 1.3
Corr. Area 1: 2,081.1

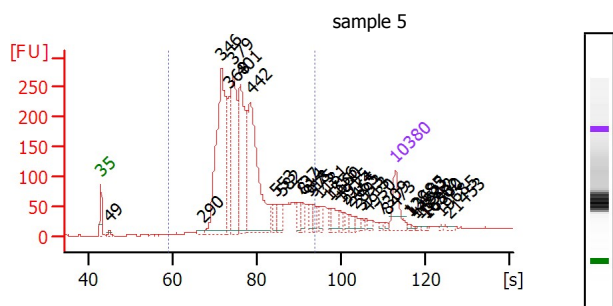
Region table for sample 4 : sample 4

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	2,081.1	94	416	32.3	2,142.99	8,508.9	Blue

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	8.60	266.8	
3	318	360.66	1,719.7	
4	323	182.45	855.7	
5	344	580.85	2,561.8	
6	376	313.16	1,262.2	
7	398	408.36	1,553.1	
8	476	13.65	43.5	
9	538	19.16	53.9	
10	588	22.30	57.5	
11	650	21.81	50.8	
12	715	20.41	43.2	
13	816	24.09	44.7	
14	908	13.53	22.6	
15	956	17.93	28.4	
16	1,080	18.21	25.5	
17	1,358	18.61	20.8	
18	1,692	5.97	5.3	
19	1,827	4.43	3.7	
20	2,538	2.79	1.7	
21	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Electropherogram Summary Continued ...**Overall Results for sample 5 :** sample 5

Number of peaks found: 32
Noise: 0.8
Corr. Area 1: 3,819.4

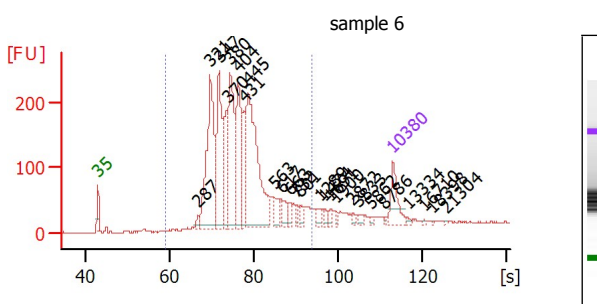
Region table for sample 5 : sample 5

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarit y [pmol/l]	Co lo r
200	1,000	3,819.4	86	445	30.0	2,464.59	9,104.9

Peak table for sample 5 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observation s
1	35	125.00	5,411.3	Lower Marker
2	49	11.44	354.5	
3	290	11.78	61.6	
4	346	689.14	3,021.7	
5	368	143.06	588.8	
6	379	401.91	1,607.9	
7	401	396.96	1,500.4	
8	442	504.50	1,728.3	
9	553	23.43	64.1	
10	582	41.68	108.5	
11	737	29.58	60.8	
12	814	32.76	61.0	
13	918	23.74	39.2	
14	975	24.89	38.7	
15	1,181	22.70	29.1	
16	1,556	14.08	13.7	
17	1,660	27.99	25.5	
18	1,915	16.17	12.8	
19	2,174	12.68	8.8	
20	2,465	18.36	11.3	
21	2,893	11.84	6.2	
22	3,713	8.58	3.5	
23	4,930	9.62	3.0	
24	7,309	4.51	0.9	
25	8,473	4.54	0.8	

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observation s
26	10,380	75.00	10.9	Upper Marker
27	12,985	0.00	0.0	
28	13,683	0.00	0.0	
29	14,521	0.00	0.0	
30	15,312	0.00	0.0	
31	16,382	0.00	0.0	
32	16,800	0.00	0.0	
33	19,685	0.00	0.0	
34	21,453	0.00	0.0	

**Overall Results for sample 6 :** sample 6

Number of peaks found: 25
Noise: 1.0
Corr. Area 1: 3,710.8

Region table for sample 6 : sample 6

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarit y [pmol/l]	Co lo r
200	1,000	3,710.8	90	432	28.2	2,540.34	9,608.7

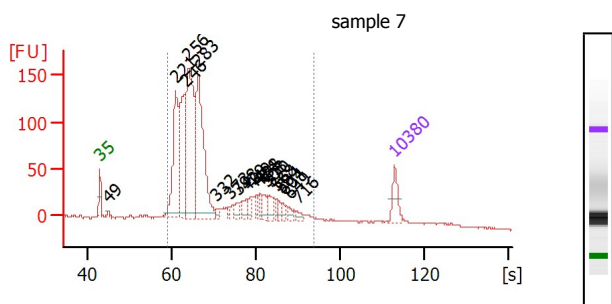
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
 Modified: 6/22/2012 8:22:30 AM

Electropherogram Summary Continued ...

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker	26	18,398	0.00	0.0	
2	287	20.39	107.6		27	21,304	0.00	0.0	
3	321	503.00	2,375.1						
4	347	292.58	1,277.7						
5	370	201.89	826.0						
6	380	330.00	1,314.5						
7	404	264.34	990.4						
8	431	106.11	373.1						
9	445	567.87	1,932.7						
10	563	48.95	131.7						
11	617	35.53	87.2						
12	663	27.97	63.9						
13	732	19.90	41.2						
14	801	21.43	40.5						
15	1,289	15.99	18.8						
16	1,474	11.81	12.1						
17	1,691	11.77	10.5						
18	1,900	7.58	6.0						
19	2,872	8.74	4.6						
20	3,833	9.62	3.8						
21	5,862	6.20	1.6						
22	8,786	4.03	0.7						
23	10,380	75.00	10.9	Upper Marker					
24	13,334	0.00	0.0						
25	16,710	0.00	0.0						



Overall Results for sample 7 : sample 7

Number of peaks found: 19
 Noise: 0.9
 Corr. Area 1: 2,197.1

Region table for sample 7 : sample 7

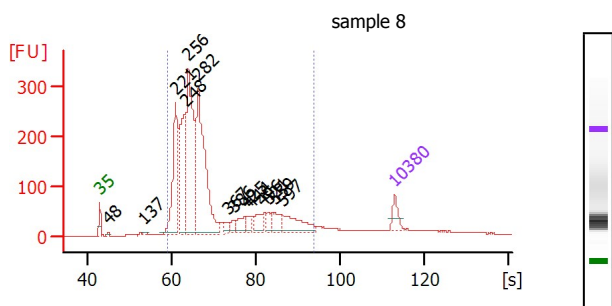
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,197.1	91	334	42.1	3,351.10	17,749.9	Blue

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	49	10.71	333.6	
3	221	535.25	3,672.6	
4	246	466.36	2,867.2	
5	256	849.36	5,030.5	
6	283	737.94	3,955.2	
7	332	19.26	88.0	
8	373	16.56	67.3	
9	398	37.66	143.4	
10	429	38.49	136.1	
11	449	43.66	147.5	
12	474	32.09	102.5	
13	488	32.97	102.3	
14	508	54.93	163.7	
15	530	44.38	126.9	
16	568	22.87	61.0	
17	584	21.82	56.6	
18	604	17.53	44.0	
19	649	21.41	50.0	
20	716	17.85	37.8	
21	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Electropherogram Summary Continued ...**Overall Results for sample 8 :** sample 8

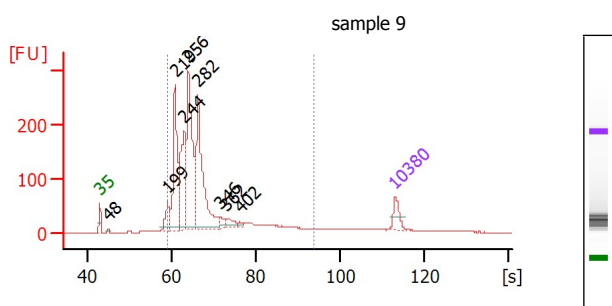
Number of peaks found: 14
Noise: 0.4
Corr. Area 1: 4,145.5

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	4,145.5	90	338	44.5	5,105.43	26,987.2	Blue

Peak table for sample 8 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	14.23	445.6	
3	137	21.44	237.9	
4	221	769.74	5,287.8	
5	248	782.31	4,774.3	
6	256	1,149.53	6,808.2	
7	282	1,292.58	6,938.1	
8	367	37.78	155.8	
9	386	50.77	199.1	
10	425	97.63	348.3	
11	444	48.43	165.3	
12	496	104.40	319.2	
13	521	58.66	170.5	
14	559	91.48	247.9	
15	597	207.88	527.8	
16	10,380	75.00	10.9	Upper Marker

**Overall Results for sample 9 :** sample 9

Number of peaks found: 9
Noise: 0.3
Corr. Area 1: 2,762.1

Region table for sample 9 : sample 9

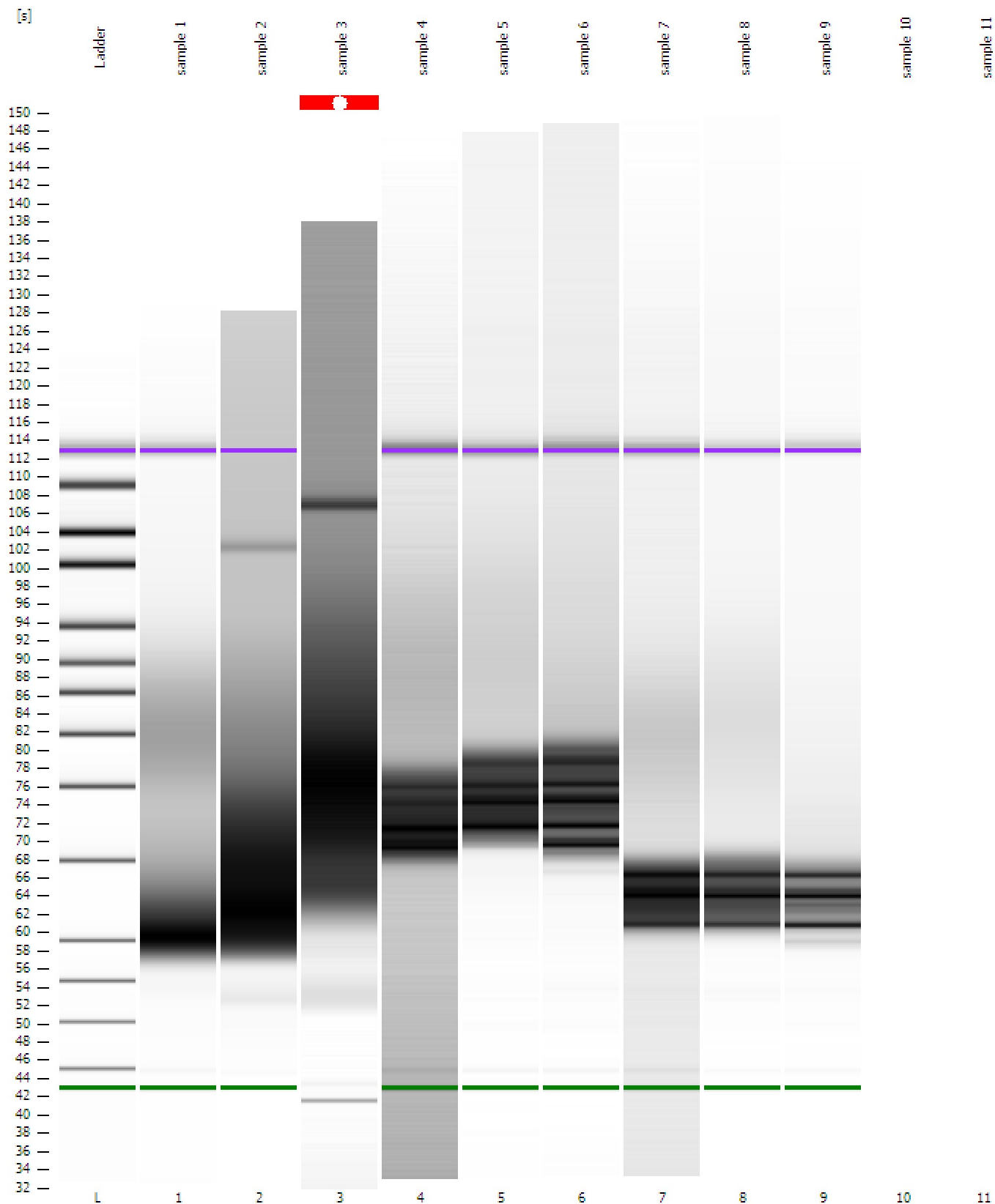
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,762.1	89	304	38.7	3,840.91	21,287.5	Blue

Peak table for sample 9 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	18.11	566.4	
3	199	141.54	1,079.0	
4	219	704.65	4,875.1	
5	244	576.40	3,574.6	
6	256	925.15	5,481.9	
7	282	917.31	4,934.8	
8	346	44.16	193.3	
9	362	62.69	262.1	
10	402	15.91	60.0	
11	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

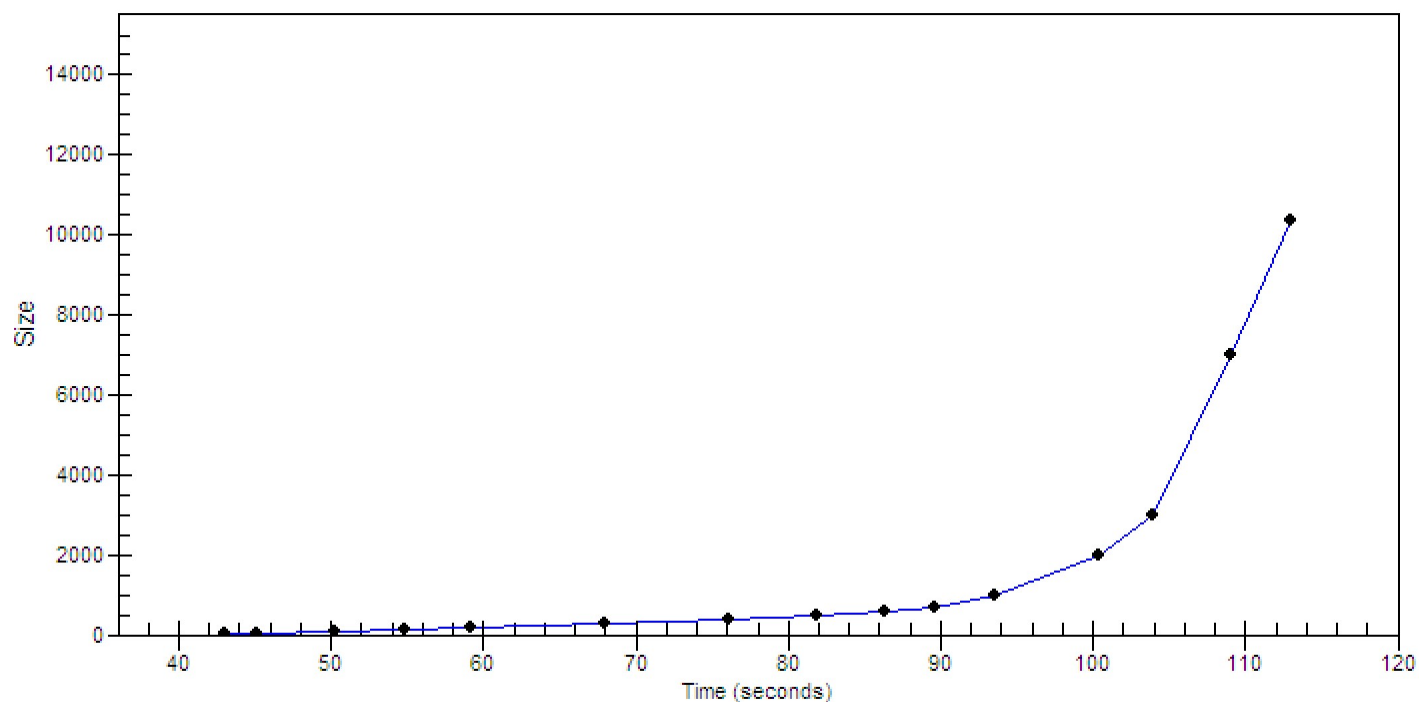
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
Modified: 6/22/2012 8:22:30 AM

Invalid Samples

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:\...gh Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad

Created: 6/21/2012 2:14:30 PM
 Modified: 6/22/2012 8:22:30 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		6/21/2012 2:50:07 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2012-06-21\2100 expert_High Sensitivity DNA Assay_DE72904985_2012-06-21_14-14-30.xad)		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Product Number : G2938C		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Name :		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Vendor : Agilent Technologies		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Serial# : DE72904985		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Firmware : C.01.069		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER
Cartridge : Electrode		Instrument	Run		6/21/2012 2:14:36 PM	(GMT +02:00) W. Europe Standard Time	Administrator	BIOANALYZER