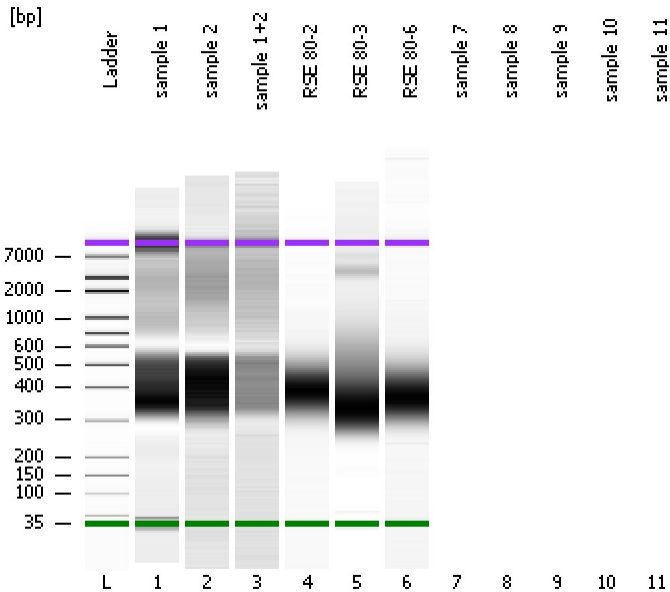


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Electrophoresis File Run Summary



Instrument Information:

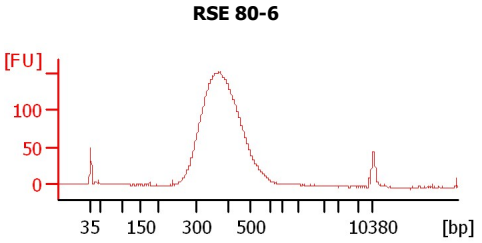
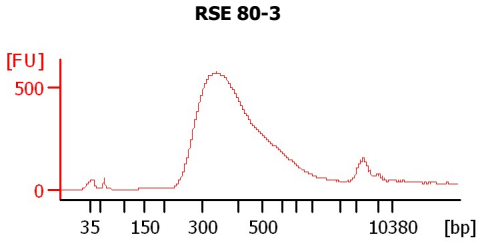
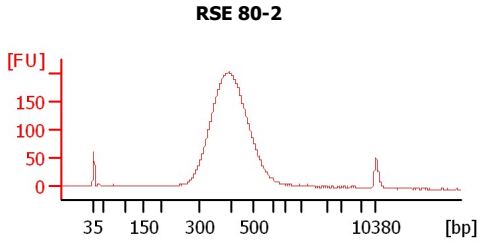
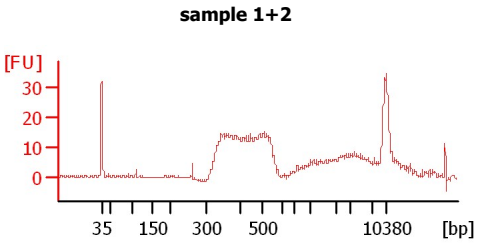
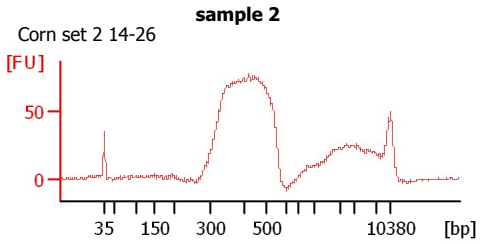
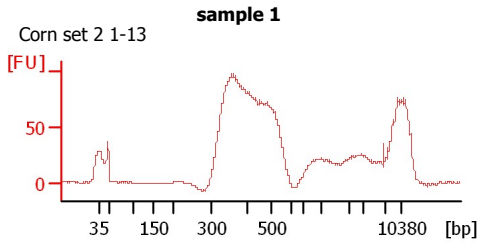
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	Corn set 2 1-13	<input type="checkbox"/>	✓			
sample 2	Corn set 2 14-26	<input type="checkbox"/>	✓			
sample 1+2		<input type="checkbox"/>	✓			
RSE 80-2		<input type="checkbox"/>	✓			
RSE 80-3		<input type="checkbox"/>	✓			
RSE 80-6		<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:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 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

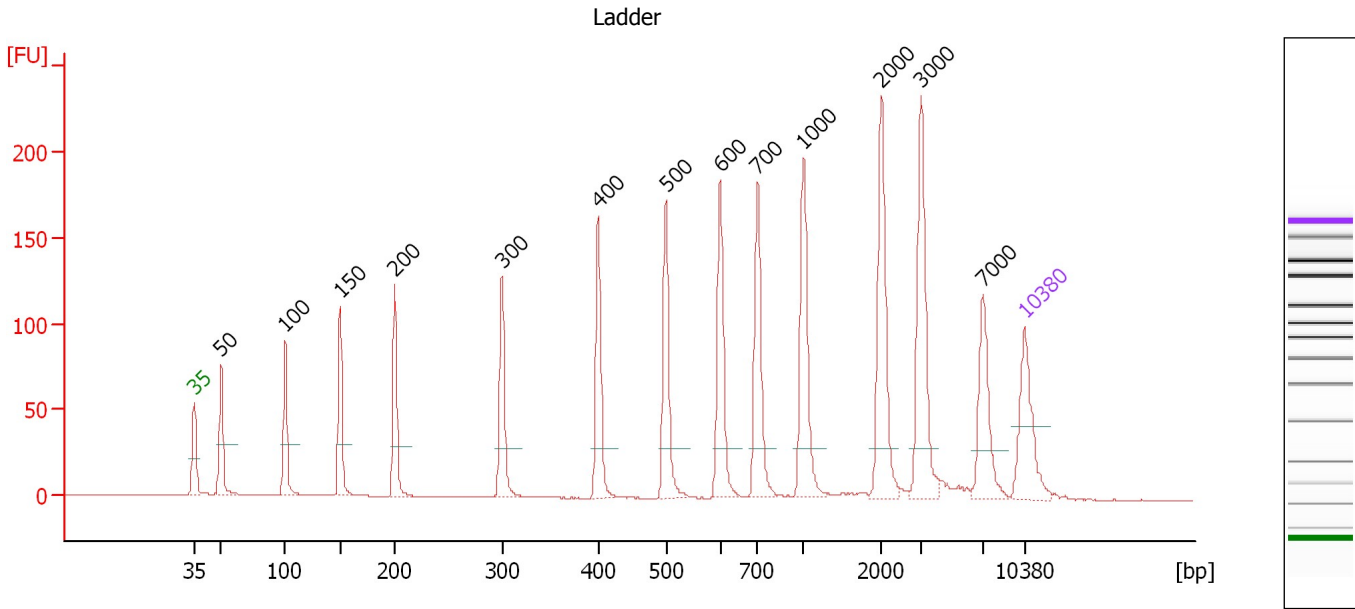
Ladder

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:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

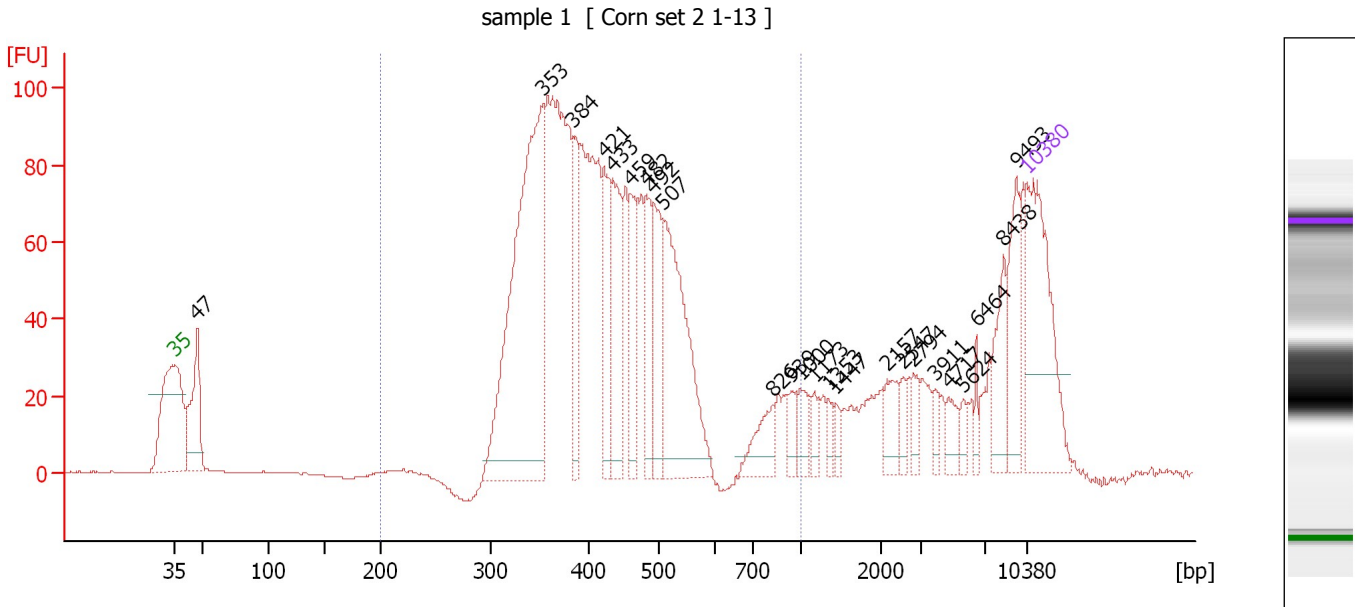
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 24 Corr. Area 1: 1,756.2
 Noise: 0.2

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	47	72.74	2,345.7	
3	353	279.71	1,200.8	
4	384	47.78	188.6	
5	421	50.06	180.3	
6	433	67.94	237.7	
7	459	47.56	157.0	
8	482	40.88	128.5	
9	492	46.69	143.7	
10	507	131.19	391.8	
11	826	22.58	41.4	
12	939	12.13	19.6	
13	1,000	14.07	21.3	
14	1,173	9.23	11.9	
15	1,353	6.29	7.0	
16	1,447	5.73	6.0	
17	2,157	15.41	10.8	
18	2,547	7.57	4.5	
19	2,794	9.33	5.1	
20	3,911	6.47	2.5	
21	4,717	10.26	3.3	
22	5,624	5.83	1.6	
23	6,464	6.28	1.5	
24	8,438	24.98	4.5	
25	9,493	32.93	5.3	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...

... Region table for sample 1 :

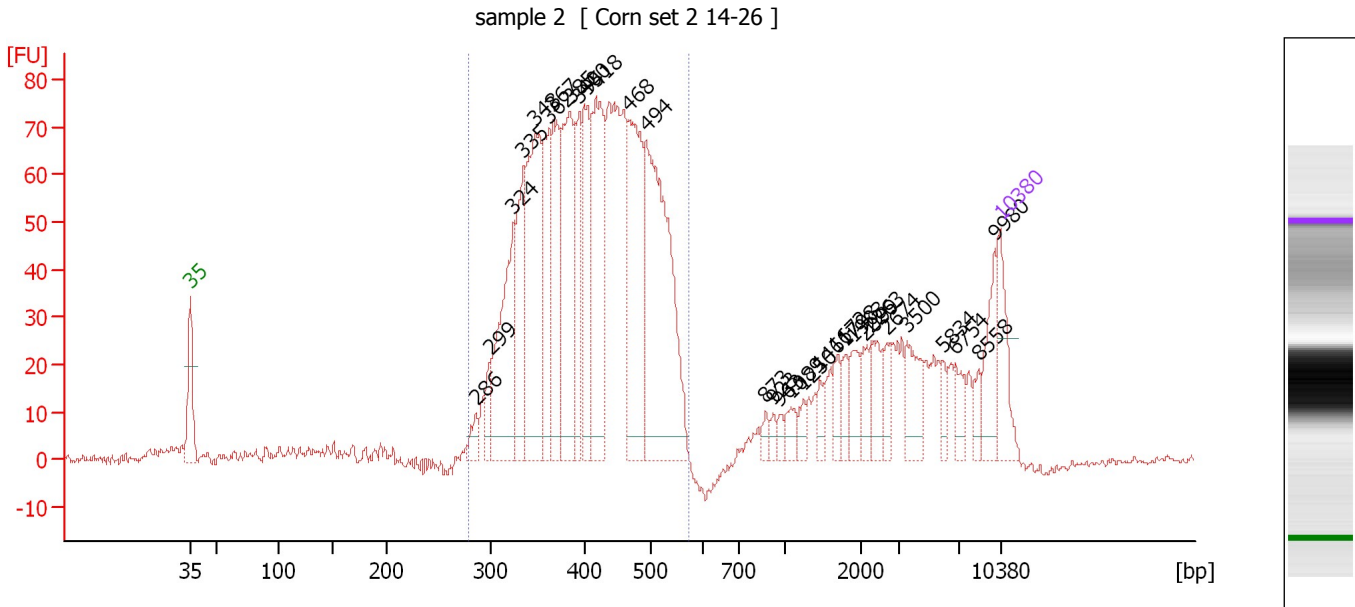
sample 1

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	4,303.5	440	1,162.46	1,000	1,756.2	75	28.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 30 Corr. Area 1: 1,406.6
 Noise: 0.8

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	286	33.72	178.7	
3	299	51.33	259.9	
4	324	297.18	1,388.9	
5	335	197.07	891.3	
6	348	364.67	1,589.8	
7	362	175.73	734.8	
8	367	227.11	937.8	
9	385	314.50	1,239.0	
10	395	149.11	572.2	
11	400	185.47	702.6	
12	418	321.95	1,167.7	
13	468	322.24	1,043.7	
14	494	542.49	1,665.0	
15	873	16.82	29.2	
16	923	13.02	21.4	
17	963	13.92	21.9	
18	1,089	25.81	35.9	
19	1,250	19.62	23.8	
20	1,461	21.52	22.3	
21	1,672	31.50	28.5	
22	1,798	27.84	23.5	
23	1,903	40.74	32.4	
24	2,099	34.91	25.2	
25	2,263	52.82	35.4	
26	2,674	27.11	15.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad


Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,500	66.67	28.9	
28	5,834	21.98	5.7	
29	6,754	32.40	7.3	
30	8,558	21.17	3.7	
31	9,980	71.54	10.9	
32	10,380	75.00	10.9	Upper Marker

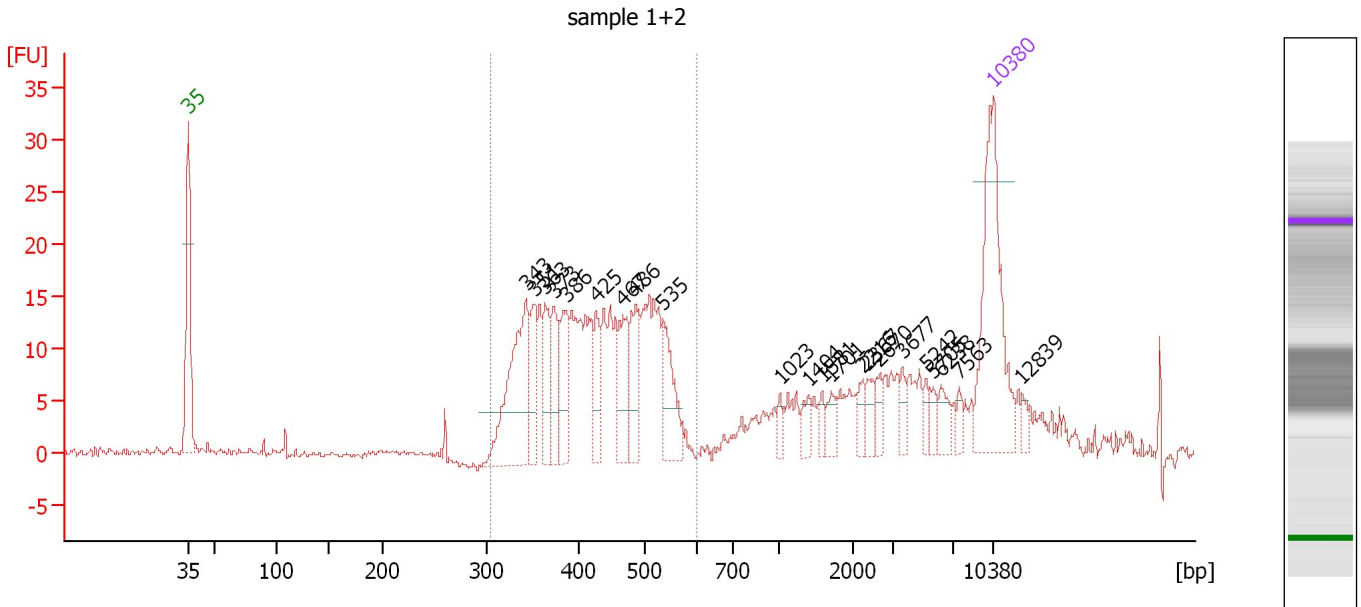
Region table for sample 2 : sample 2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
278	13,893.4	414	3,660.05	575	1,406.6	74	16.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 1+2

Number of peaks found: 22 Corr. Area 1: 250.4
 Noise: 0.2

Peak table for sample 3 : sample 1+2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	88.58	391.4	
3	351	27.90	120.3	
4	363	28.78	120.1	
5	373	25.79	104.7	
6	386	31.81	124.9	
7	425	21.00	74.8	
8	467	33.61	109.1	
9	486	30.47	95.1	
10	535	35.34	100.2	
11	1,023	5.41	8.0	
12	1,404	8.30	9.0	
13	1,581	5.50	5.3	
14	1,701	8.32	7.4	
15	2,216	7.17	4.9	
16	2,367	8.53	5.5	
17	2,670	6.80	3.9	
18	3,677	6.40	2.6	
19	5,242	5.51	1.6	
20	5,705	5.74	1.5	
21	6,238	8.64	2.1	
22	7,563	4.61	0.9	
23	10,380	75.00	10.9	Upper Marker
24	12,839	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

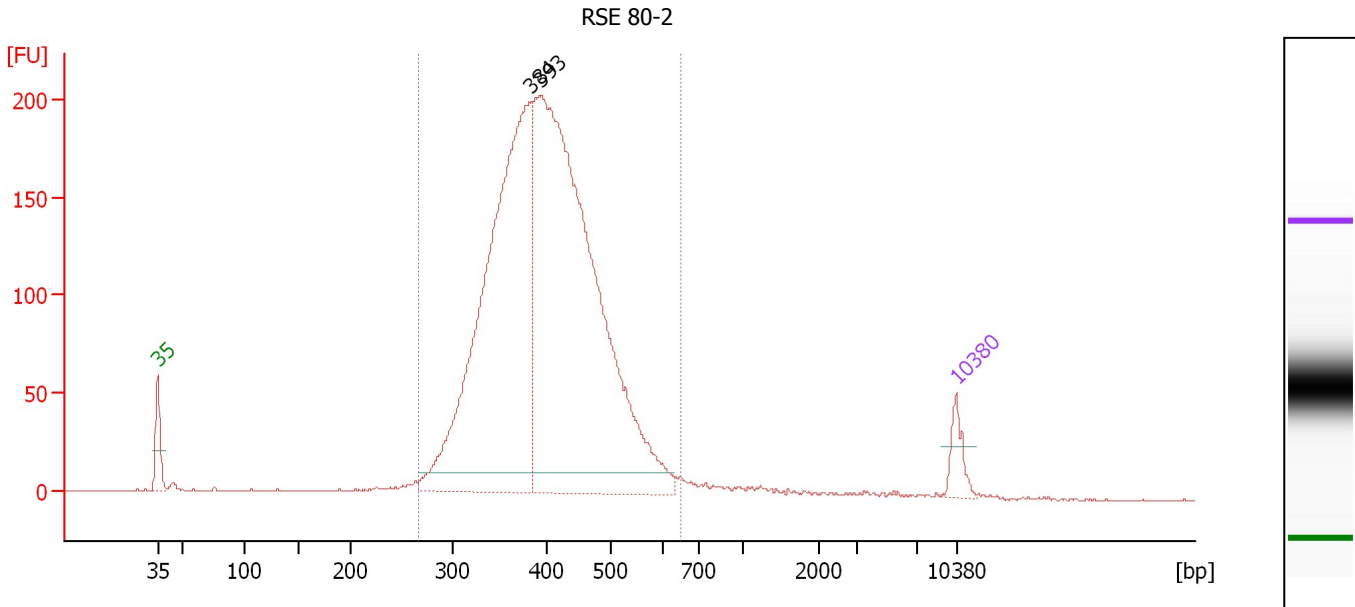
sample 1+2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
305	1,800.1	426	489.59	597	250.4	65	16.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : RSE 80-2

Height Threshold [FU] : 10

Overall Results for sample 4 : RSE 80-2

Number of peaks found: 2 Corr. Area 1: 2,957.1
 Noise: 0.2

Peak table for sample 4 : RSE 80-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	384	2,462.59	9,718.1	
3	393	3,278.32	12,623.7	
4	10,380	75.00	10.9	Upper Marker

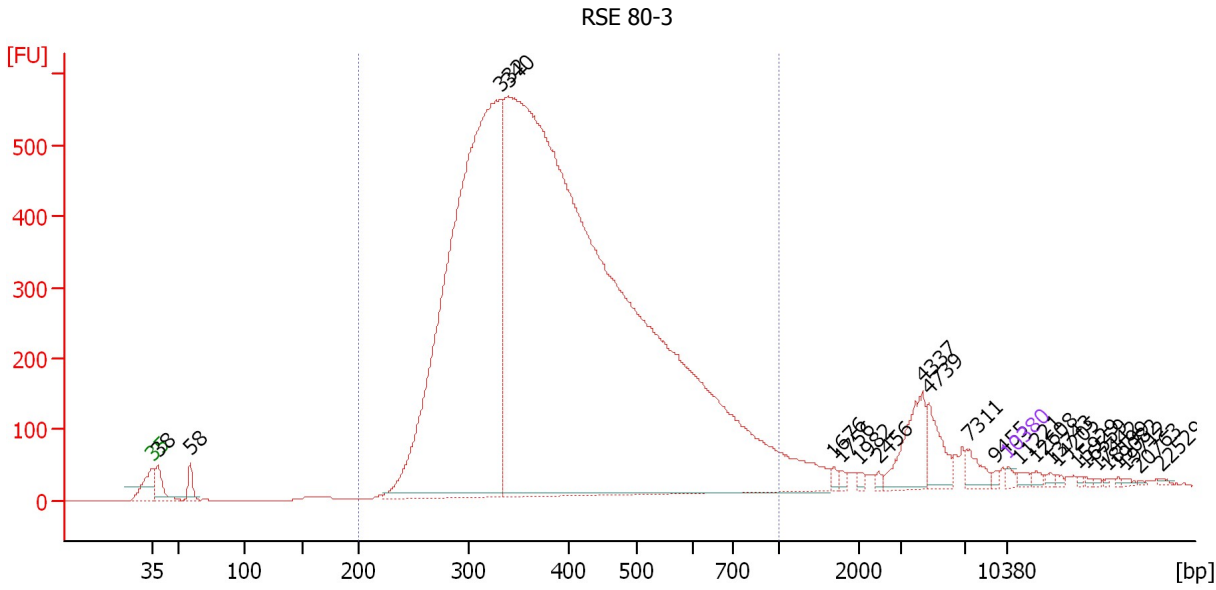
Region table for sample 4 : RSE 80-2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	22,637.4	407	5,883.69	648	2,957.1	96	16.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RSE 80-3

Number of peaks found: 24 Corr. Area 1: 13,470.8
 Noise: 0.1

Peak table for sample 5 : RSE 80-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	808.18	32,054.2	
3	58	459.53	11,948.9	
4	332	23,443.20	107,016.3	
5	340	54,043.54	240,838.5	
6	1,676	79.69	72.0	
7	1,756	83.75	72.3	
8	1,982	62.08	47.5	
9	2,456	50.61	31.2	
10	4,337	1,028.41	359.2	
11	4,739	627.05	200.5	
12	7,311	287.27	59.5	
13	9,455	49.55	7.9	
14	10,380	75.00	10.9	Upper Marker
15	11,221	0.00	0.0	
16	12,608	0.00	0.0	
17	13,743	0.00	0.0	
18	14,205	0.00	0.0	
19	15,929	0.00	0.0	
20	16,559	0.00	0.0	
21	17,442	0.00	0.0	
22	18,199	0.00	0.0	
23	19,082	0.00	0.0	
24	19,712	0.00	0.0	
25	20,763	0.00	0.0	
26	22,529	0.00	0.0	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...

... Region table for sample 5 :

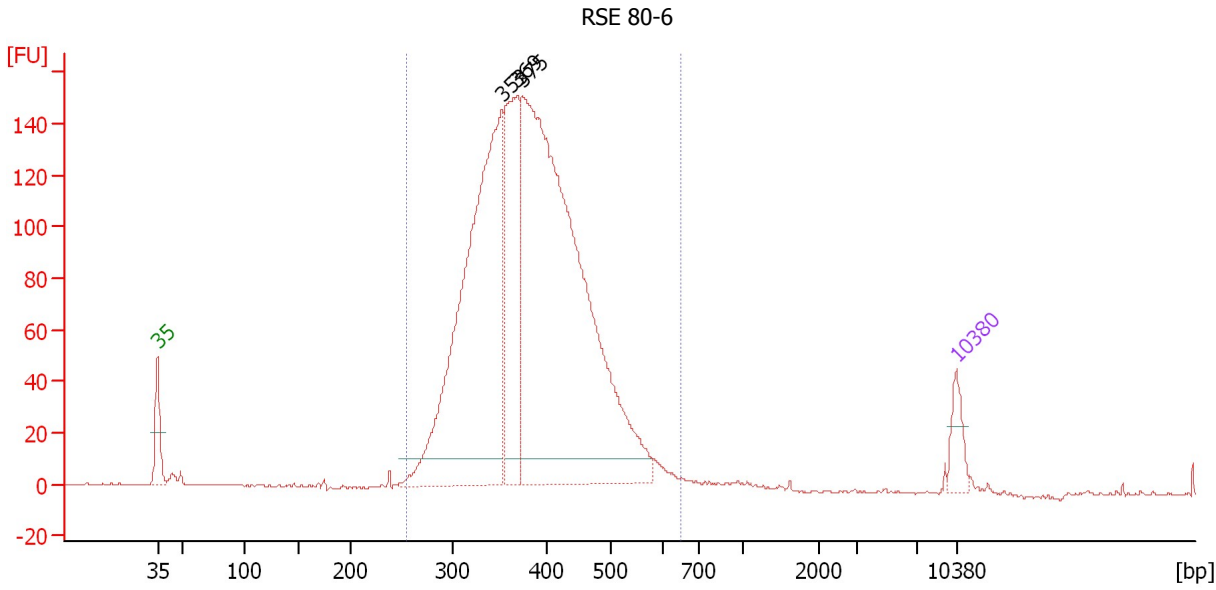
RSE 80-3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
200	285,238.0	409	69,434.57	1,000	13,470.8	92	30.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : RSE 80-6

Height Threshold [FU] : 10

Overall Results for sample 6 : RSE 80-6

Number of peaks found: 3 Corr. Area 1: 2,347.0
 Noise: 0.3

Peak table for sample 6 : RSE 80-6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	353	1,852.63	7,960.8	
3	369	671.42	2,756.0	
4	375	2,822.01	11,413.4	
5	10,380	75.00	10.9	Upper Marker

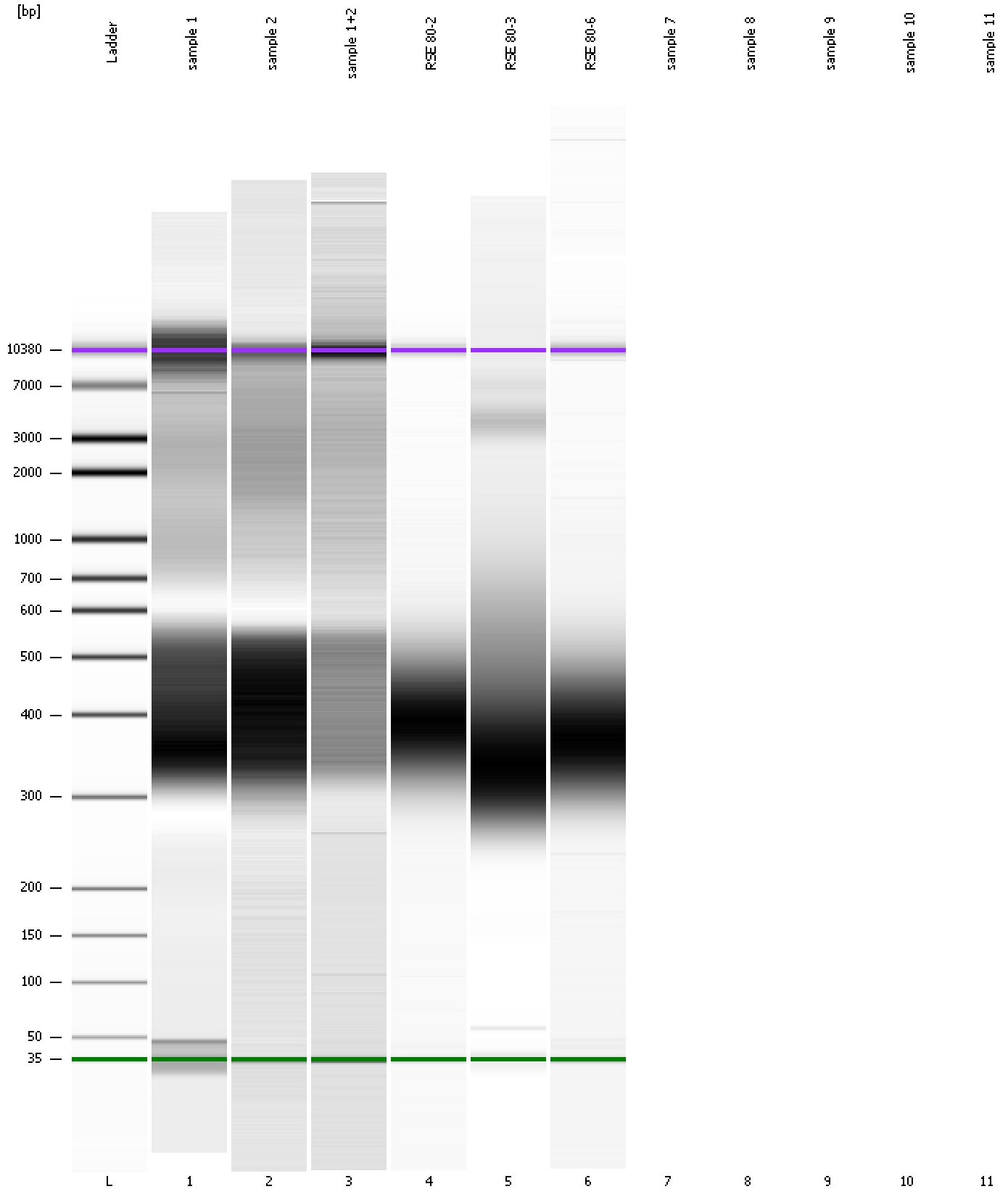
Region table for sample 6 : RSE 80-6

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
255	21,992.7	389	5,448.80	647	2,347.0	97	16.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
Modified: 5/16/2012 4:34:47 PM

Invalid Samples

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:\...ents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad

Created: 5/16/2012 4:01:23 PM
 Modified: 5/16/2012 4:34:47 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		5/16/2012 4:28:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-05-16\2012-05-16_002.xad)		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/16/2012 4:01:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1