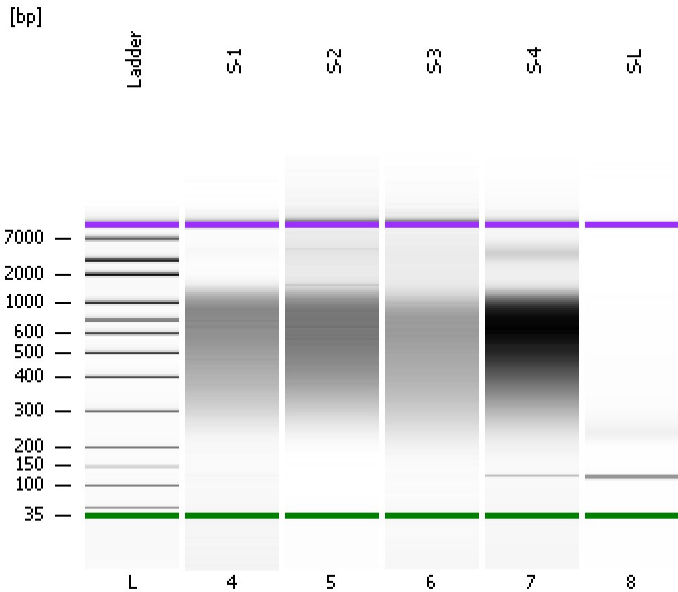


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 AM

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

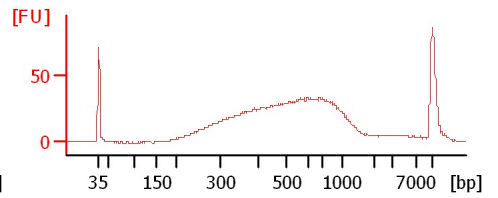
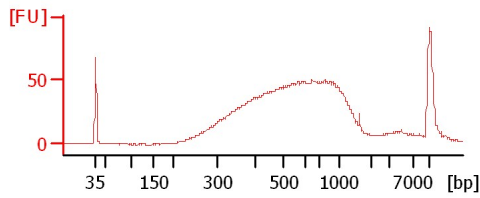
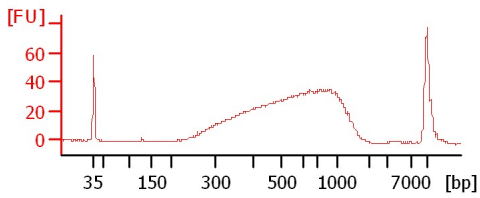
Chip Information:

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

S-1

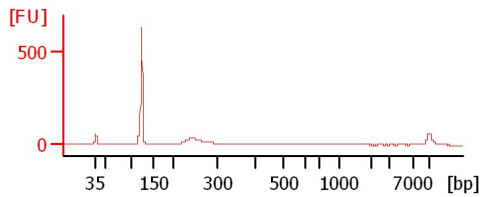
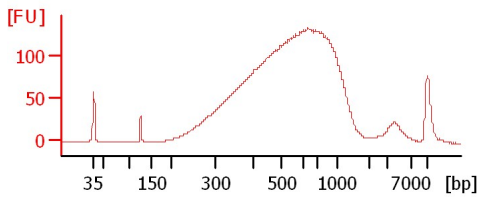
S-2

S-3



S-4

S-L



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electrophoresis File Run Summary (Chip Summary)

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

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 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

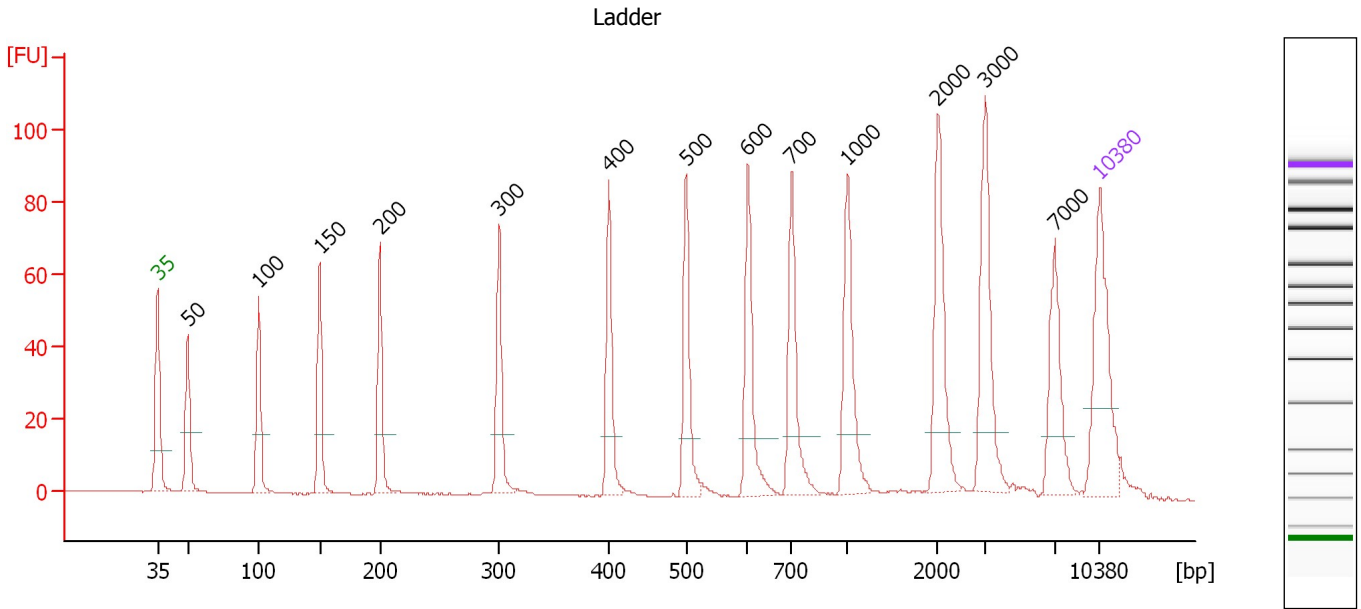
Ladder

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:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

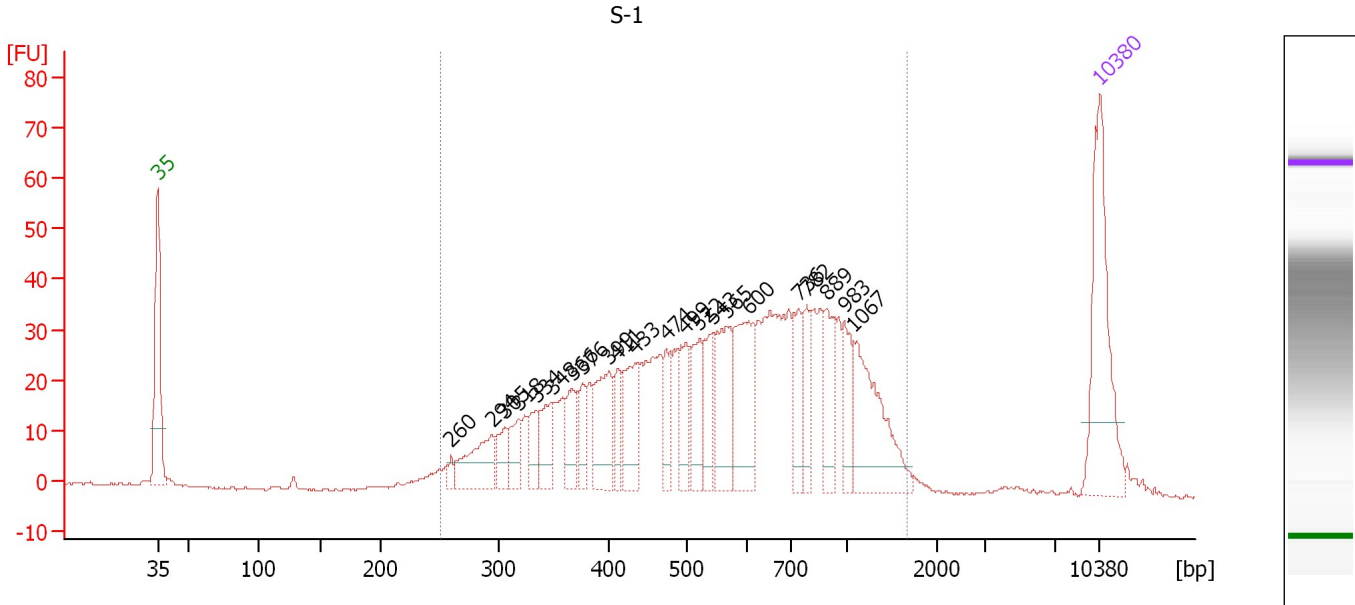
Peak table for Ladder

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:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : S-1

Number of peaks found: 22 Corr. Area 1: 965.0
 Noise: 0.2


Peak table for sample 4 : S-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	6.33	37.0	
3	294	42.92	221.2	
4	305	17.28	85.8	
5	318	22.06	105.1	
6	334	21.33	96.7	
7	348	27.49	119.7	
8	366	26.64	110.2	
9	376	18.85	76.0	
10	399	49.37	187.4	
11	411	20.28	74.8	
12	433	41.68	145.8	
13	474	22.57	72.1	
14	499	32.03	97.2	
15	522	31.81	92.4	
16	543	26.84	75.0	
17	565	50.55	135.5	
18	600	64.21	162.1	
19	736	30.24	62.3	
20	782	24.26	47.0	
21	889	32.49	55.4	
22	983	26.26	40.5	
23	1,067	71.83	102.0	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 AM

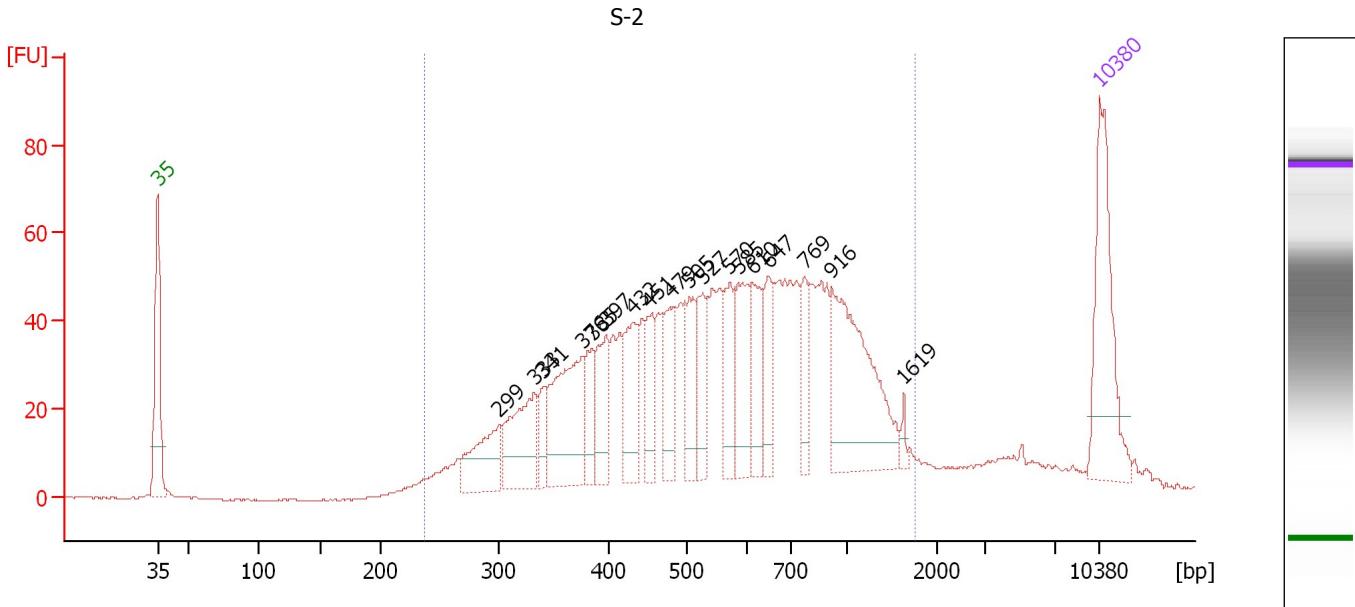
Electropherogram Summary Continued ...**... Region table for sample 4 : S-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
251	1,665	630	3,141.2	1,037.72	965.0	98	44.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : S-2

Height Threshold [FU] : 7

Overall Results for sample 5 : S-2

Number of peaks found: 18 Corr. Area 1: 1,443.0
 Noise: 0.1


Peak table for sample 5 : S-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	55.18	279.2	
3	333	70.85	322.8	
4	341	20.00	89.0	
5	376	98.11	395.4	
6	385	30.08	118.5	
7	397	46.47	177.3	
8	432	49.96	175.4	
9	451	36.74	123.4	
10	479	46.08	145.8	
11	505	40.48	121.4	
12	527	37.70	108.5	
13	570	38.80	103.1	
14	585	55.52	143.9	
15	610	35.18	87.4	
16	647	36.18	84.7	
17	769	28.41	56.0	
18	916	127.35	210.8	
19	1,619	4.97	4.6	
20	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 AM

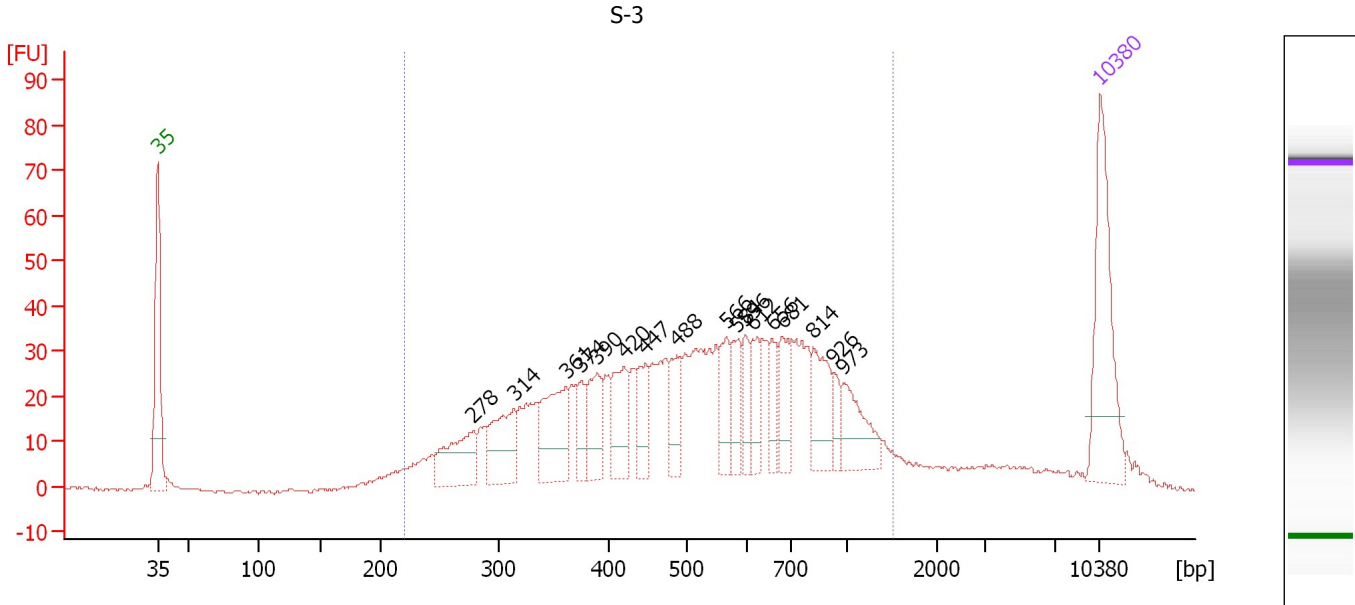
Electropherogram Summary Continued ...**... Region table for sample 5 : S-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
237	1,742	624	4,213.9	1,362.87	1,443.0	92	46.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : S-3

Height Threshold [FU] : 7

Overall Results for sample 6 : S-3

Number of peaks found: 17 Corr. Area 1: 1,044.8
 Noise: 0.4


Peak table for sample 6 : S-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	54.11	295.0	
3	314	54.55	263.5	
4	361	63.70	267.7	
5	374	23.91	96.9	
6	390	37.78	147.0	
7	420	43.01	155.2	
8	447	29.68	100.6	
9	488	27.34	84.8	
10	566	29.11	77.9	
11	584	25.36	65.8	
12	596	20.54	52.2	
13	612	21.75	53.9	
14	656	21.43	49.5	
15	681	30.99	69.0	
16	814	40.50	75.4	
17	926	12.47	20.4	
18	973	36.80	57.3	
19	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 AM

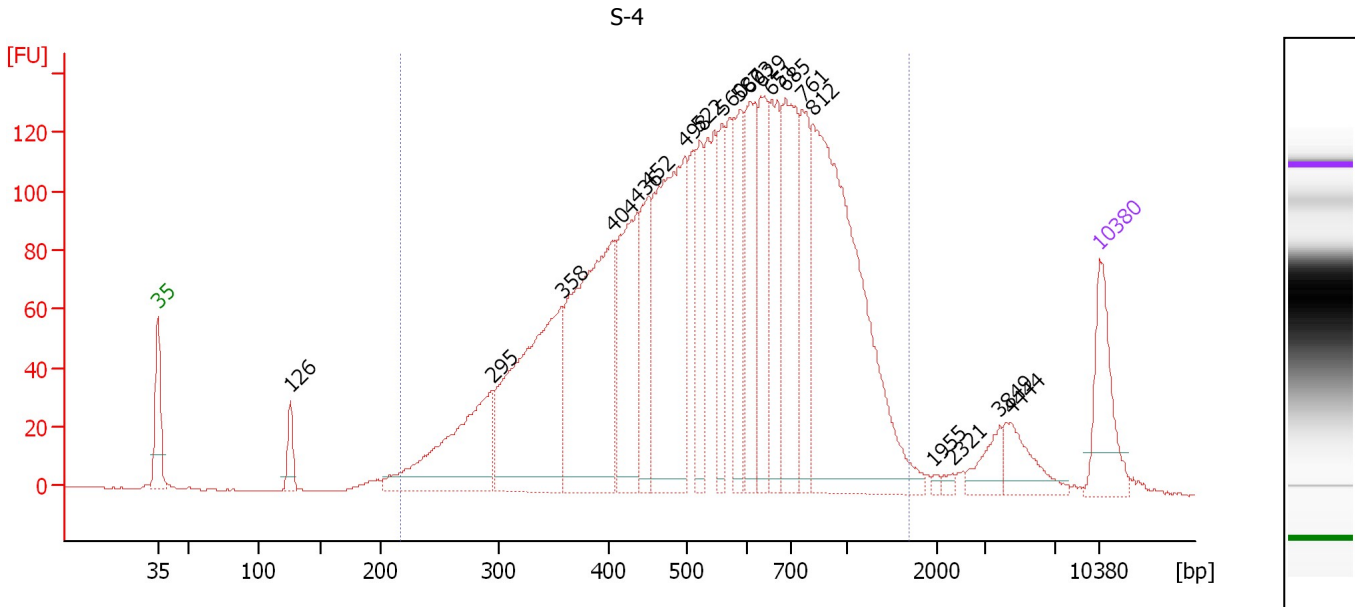
Electropherogram Summary Continued ...**... Region table for sample 6 : S-3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
222	1,494	563	3,696.4	1,091.22	1,044.8	89	43.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : S-4

Number of peaks found: 20 Corr. Area 1: 3,513.1
 Noise: 0.3

Peak table for sample 7 : S-4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	38.08	458.2	
3	295	238.75	1,227.7	
4	358	381.12	1,615.2	
5	404	390.27	1,464.4	
6	436	201.34	698.9	
7	452	117.54	394.4	
8	498	371.01	1,127.9	
9	522	90.17	261.7	
10	560	89.71	242.9	
11	587	116.86	301.8	
12	603	145.24	364.7	
13	629	119.65	288.4	
14	651	125.39	291.9	
15	685	201.65	446.1	
16	761	117.69	234.3	
17	812	551.99	1,029.4	
18	1,955	3.33	2.6	
19	2,321	5.12	3.3	
20	3,849	30.63	12.1	
21	4,444	46.92	16.0	
22	10,380	75.00	10.9	Upper Marker

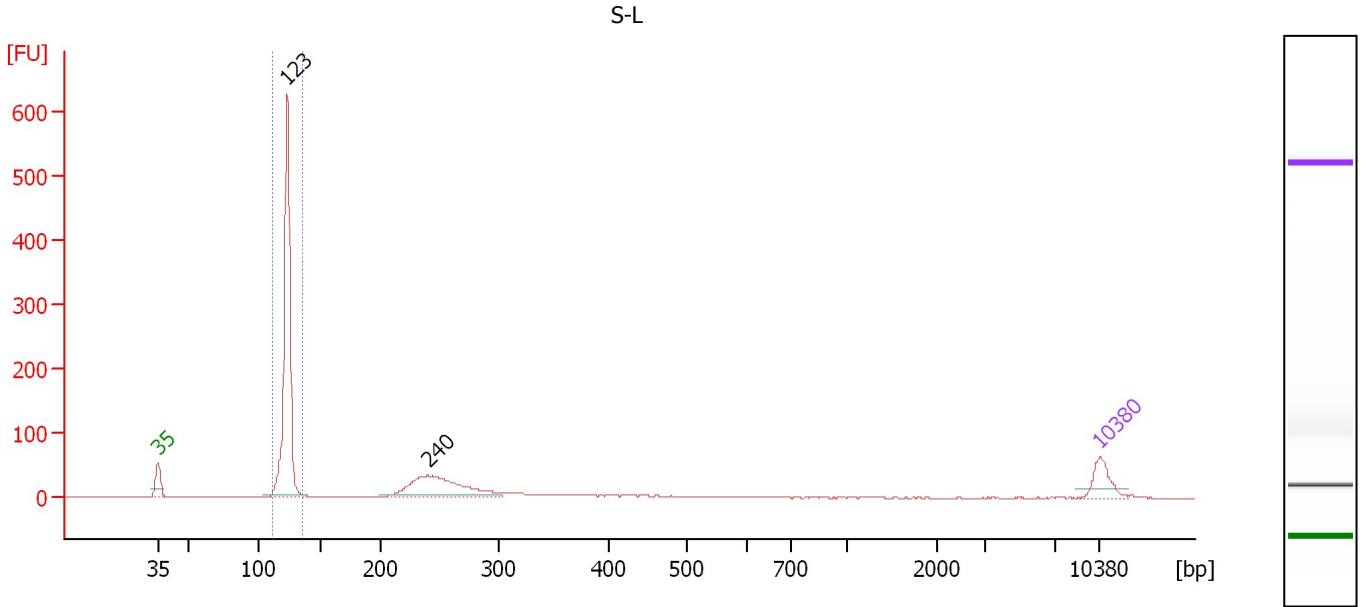
Region table for sample 7 : S-4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	1,680	601	11,176.9	3,578.80	3,513.1	95	42.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
 Modified: 10/7/2013 11:41:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : S-L

Number of peaks found: 2 Corr. Area 1: 593.4
 Noise: 0.2

Peak table for sample 8 : S-L

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	123	1,090.23	13,393.4	
3	240	376.75	2,375.9	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : S-L

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
112	135	123	13,278.3	1,078.72	593.4	65	2.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...and Settings\Bioanalyzer\2013-10-07\2013-10-07_001_Libs.xad

Created: 10/7/2013 10:57:38 AM
Modified: 10/7/2013 11:41:03 AM

Gel Image

