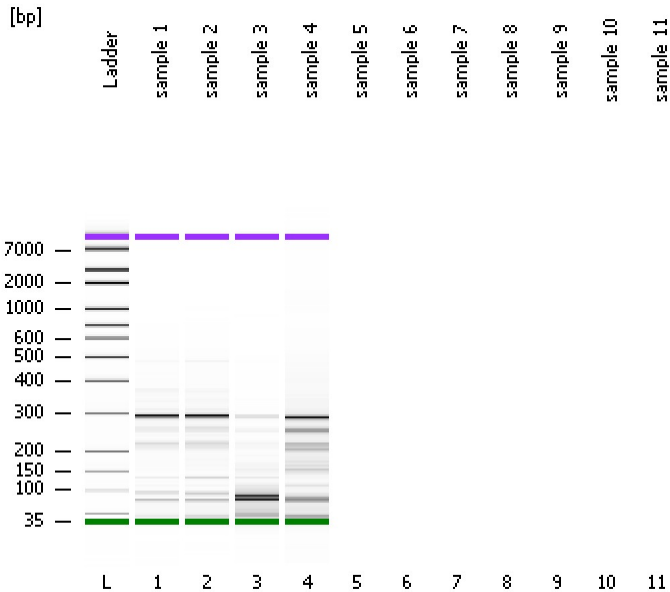


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
Modified: 9/3/2013 10:44:07 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

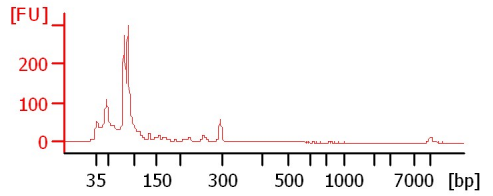
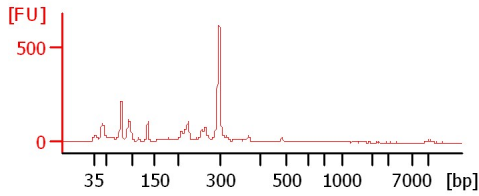
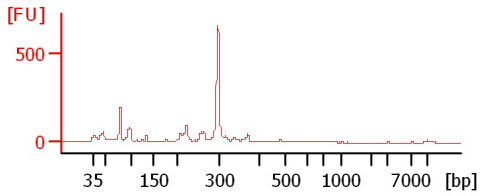
Chip Information:

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

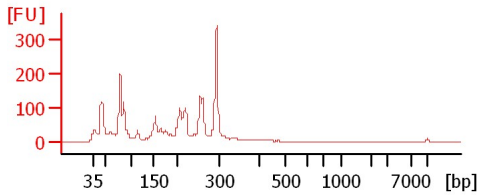
sample 1

sample 2

sample 3



sample 4



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
 Modified: 9/3/2013 10:44:07 AM

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 #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
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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

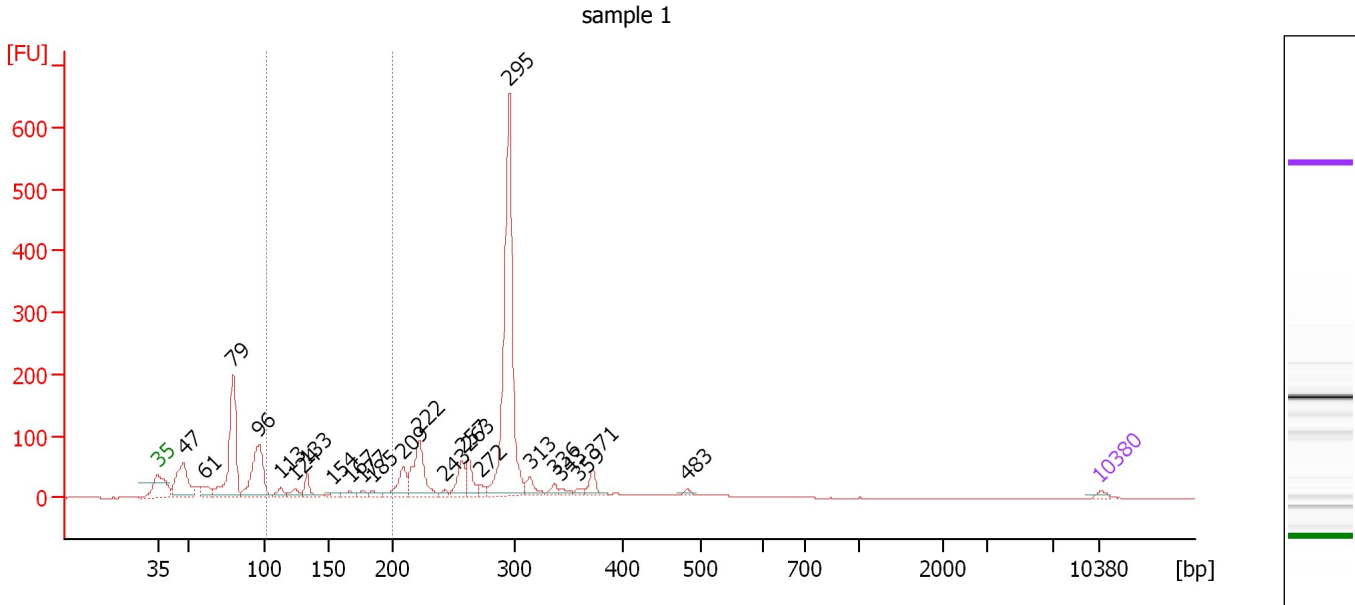
Ladder

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\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
 Modified: 9/3/2013 10:44:07 AM

Electropherogram Summary



Overall Results for sample 1 : sample 1

Number of peaks found: 24 Corr. Area 1: 180.4
 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	2,091.81	66,917.0	
3	61	493.92	12,318.9	
4	79	3,985.65	76,269.0	
5	96	2,712.24	42,626.4	
6	113	280.72	3,769.8	
7	124	284.37	3,468.7	
8	133	515.73	5,865.1	
9	154	164.35	1,615.8	
10	167	196.91	1,787.3	
11	177	154.24	1,317.6	
12	185	166.26	1,362.0	
13	209	862.33	6,238.5	
14	222	1,844.25	12,578.9	
15	243	125.93	786.3	
16	257	736.21	4,342.9	
17	263	634.84	3,661.3	
18	272	173.81	968.2	
19	295	8,280.62	42,534.3	
20	313	404.86	1,958.3	
21	336	195.31	880.3	
22	343	134.28	593.4	
23	359	116.95	493.5	
24	371	399.67	1,630.8	
25	483	82.77	259.5	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
Modified: 9/3/2013 10:44:07 AM

Electropherogram Summary Continued ...

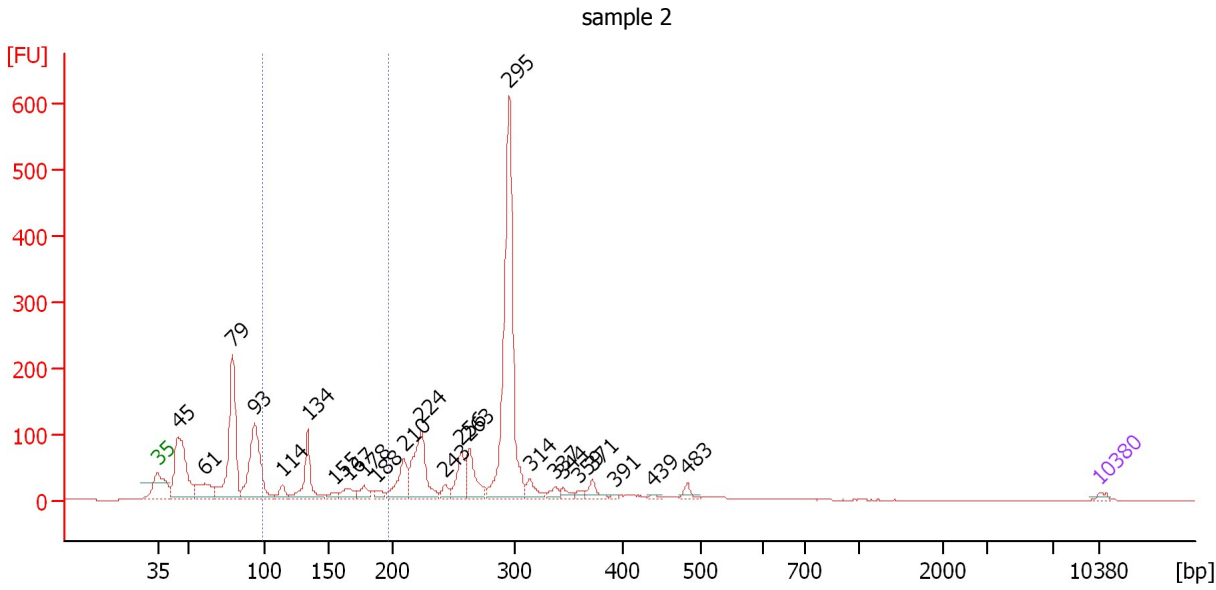
... Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
101	200	148	26,443.7	2,474.85	180.4	8	19.5	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
 Modified: 9/3/2013 10:44:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 24 Corr. Area 1: 301.7
 Noise: 0.3

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	45	3,720.76	126,227.4	
3	61	1,122.75	28,112.6	
4	79	4,668.14	89,678.4	
5	93	3,690.87	60,035.5	
6	114	390.75	5,188.2	
7	134	1,709.93	19,345.2	
8	155	207.80	2,035.1	
9	167	445.38	4,046.0	
10	178	419.48	3,563.0	
11	188	247.16	1,991.5	
12	210	1,225.63	8,860.4	
13	224	2,465.86	16,677.8	
14	243	270.73	1,688.5	
15	256	1,014.05	5,993.0	
16	263	1,178.81	6,795.3	
17	295	8,350.73	42,862.1	
18	314	452.78	2,185.9	
19	337	238.80	1,074.9	
20	344	218.34	961.7	
21	359	150.19	633.3	
22	371	330.83	1,350.0	
23	391	51.17	198.2	
24	439	72.15	249.0	
25	483	197.57	619.6	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
Modified: 9/3/2013 10:44:07 AM

Electropherogram Summary Continued ...

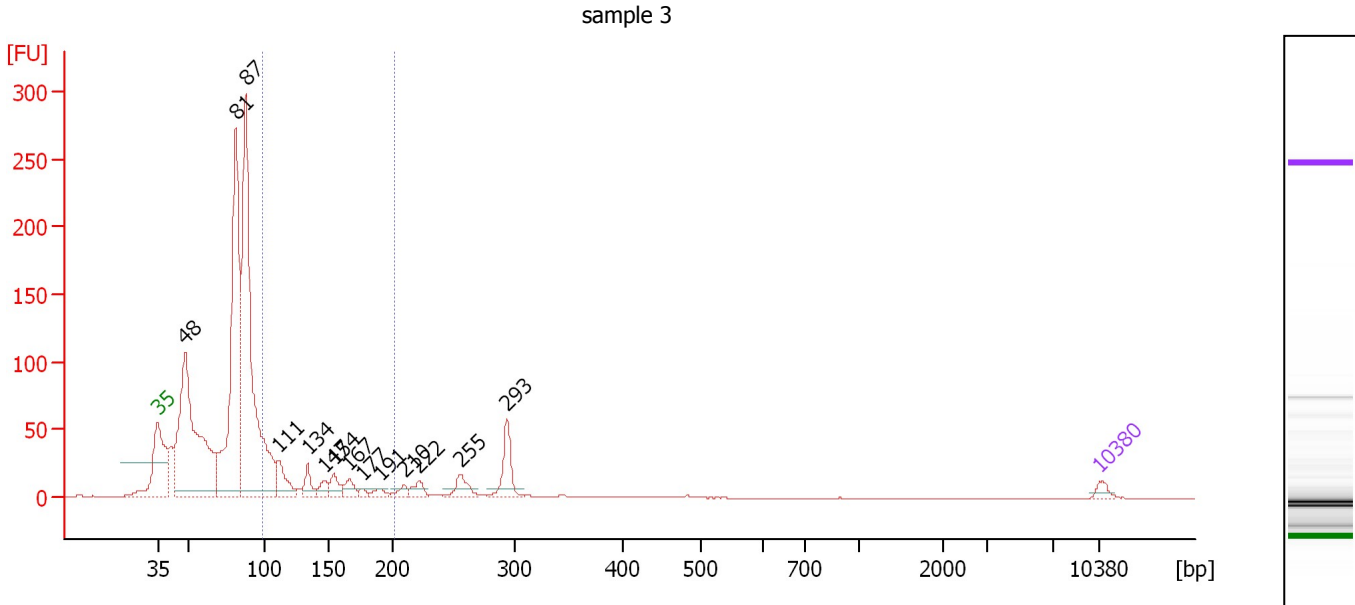
... Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
99	198	146	46,589.0	4,306.16	301.7	11	18.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 14 Corr. Area 1: 240.7
 Noise: 0.1

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	48	5,232.93	165,163.4	
3	81	5,625.66	105,169.5	
4	87	7,056.77	122,207.9	
5	111	597.25	8,121.9	
6	134	302.60	3,425.7	
7	147	196.90	2,033.4	
8	154	271.49	2,665.1	
9	167	230.60	2,095.3	
10	177	67.57	577.6	
11	191	117.60	934.8	
12	210	127.60	920.7	
13	222	184.50	1,257.8	
14	255	277.14	1,645.6	
15	293	572.89	2,962.5	
16	10,380	75.00	10.9	Upper Marker

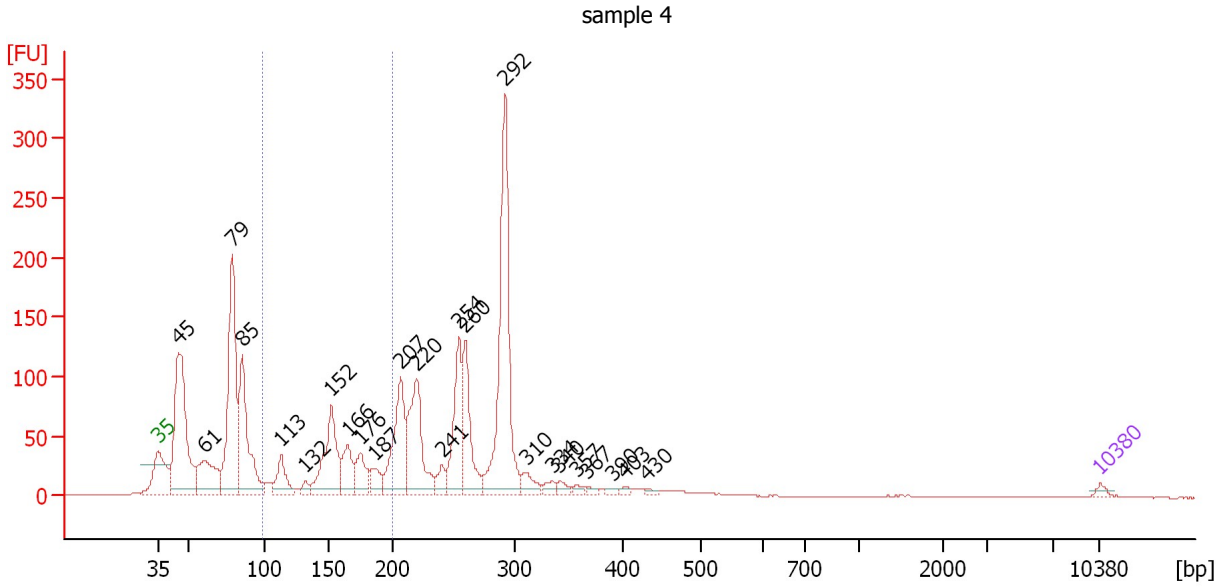
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
99	203	133	33,963.8	2,860.19	240.7	13	21.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
 Modified: 9/3/2013 10:44:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 24 Corr. Area 1: 447.7
 Noise: 0.2

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	45	5,104.19	172,506.7	
3	61	1,706.53	42,543.5	
4	79	4,759.33	91,562.7	
5	85	3,276.94	58,291.0	
6	113	926.88	12,442.8	
7	132	205.60	2,357.5	
8	152	2,347.34	23,334.7	
9	166	939.13	8,592.6	
10	176	855.28	7,373.8	
11	187	486.44	3,943.6	
12	207	2,407.76	17,590.4	
13	220	2,589.12	17,837.4	
14	241	383.06	2,410.1	
15	254	2,077.49	12,373.3	
16	260	1,736.88	10,136.6	
17	292	5,427.59	28,163.2	
18	310	399.26	1,951.7	
19	334	194.30	881.9	
20	340	191.35	851.7	
21	357	136.01	577.1	
22	367	92.25	381.2	
23	390	91.38	355.1	
24	403	86.70	326.2	
25	430	75.46	266.1	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
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Electropherogram Summary Continued ...

... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
99	201	157	68,465.3	6,863.31	447.7	17	16.7	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_001.xad

Created: 9/3/2013 10:20:07 AM
Modified: 9/3/2013 10:44:07 AM

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.