

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad

Created: 7/9/2014 11:27:12 AM
Modified: 7/9/2014 11:59:26 AM

Electrophoresis File Run Summary

Instrument Information:

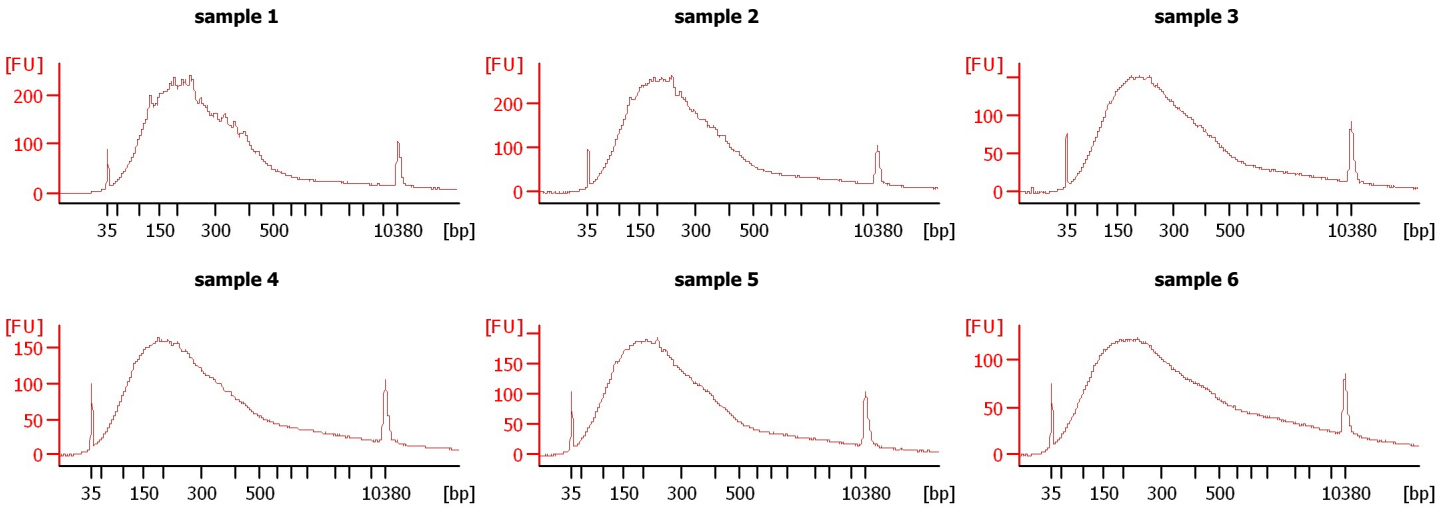
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad

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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 :

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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

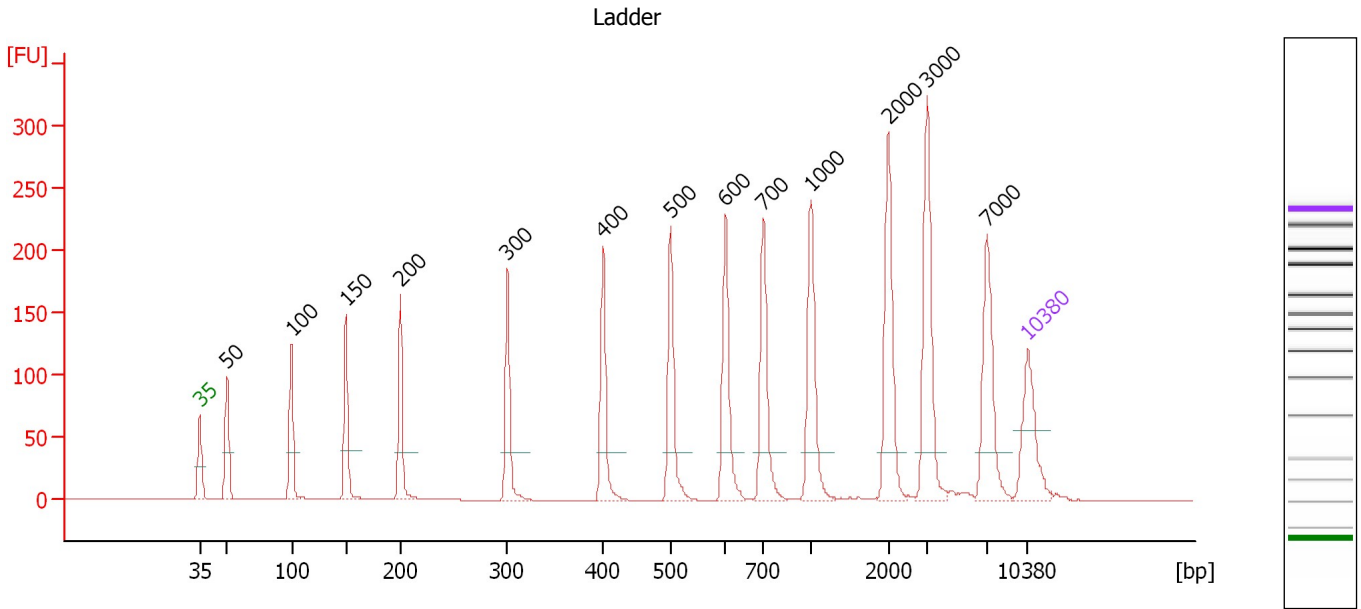
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

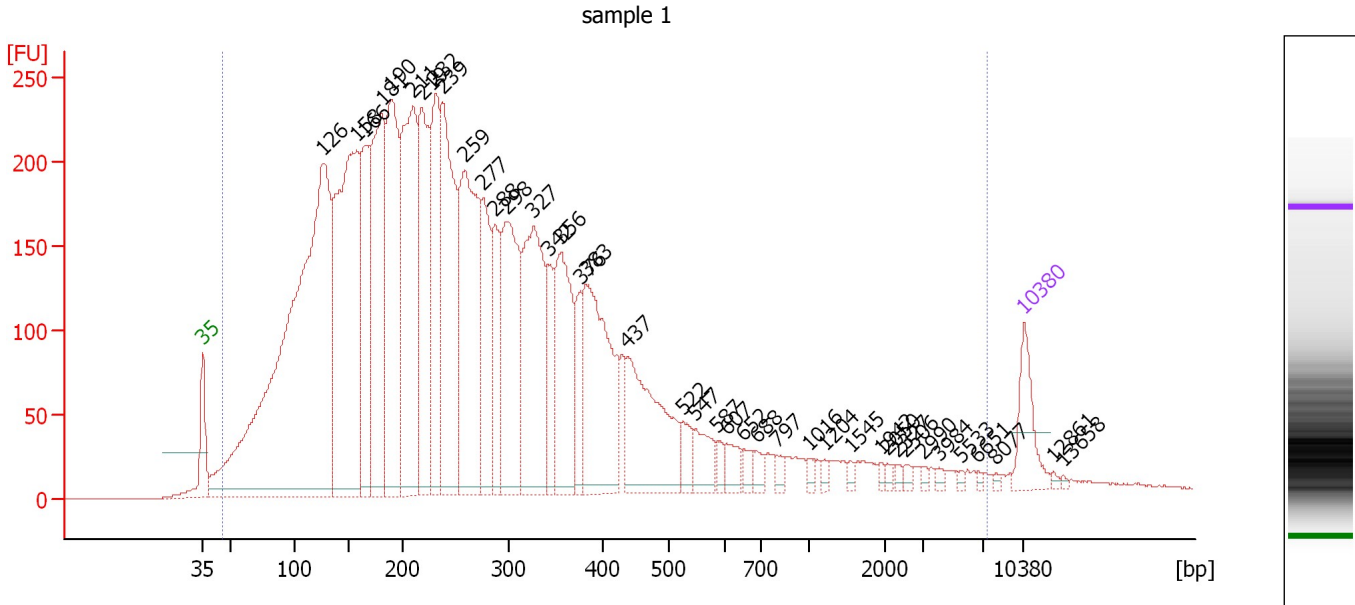
Peak table for Ladder

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
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 40 Corr. Area 1: 9,549.3
 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	126	2,165.88	25,944.1	
3	158	1,005.55	9,633.8	
4	166	363.96	3,330.7	
5	181	584.54	4,882.5	
6	190	569.41	4,545.4	
7	211	621.74	4,470.2	
8	219	425.46	2,946.6	
9	232	350.58	2,291.3	
10	239	535.19	3,395.0	
11	259	586.33	3,424.3	
12	277	252.20	1,379.4	
13	288	186.19	979.3	
14	298	399.21	2,029.1	
15	327	434.17	2,010.7	
16	342	115.35	510.4	
17	356	303.28	1,291.0	
18	376	86.39	347.9	
19	383	402.46	1,592.2	
20	437	313.35	1,086.0	
21	522	46.48	134.8	
22	547	64.63	179.0	
23	587	18.28	47.2	
24	607	38.92	97.2	
25	652	21.38	49.7	
26	688	20.37	44.9	

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Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	797	16.58	31.5	
28	1,016	9.71	14.5	
29	1,204	9.12	11.5	
30	1,545	7.44	7.3	
31	1,942	6.41	5.0	
32	2,050	7.07	5.2	
33	2,327	6.87	4.5	
34	2,506	7.96	4.8	
35	2,990	5.31	2.7	
36	3,984	6.61	2.5	
37	5,533	4.22	1.2	
38	6,651	4.03	0.9	
39	8,077	3.85	0.7	
40	10,380	75.00	10.9	Upper Marker
41	12,861	0.00	0.0	
42	13,658	0.00	0.0	

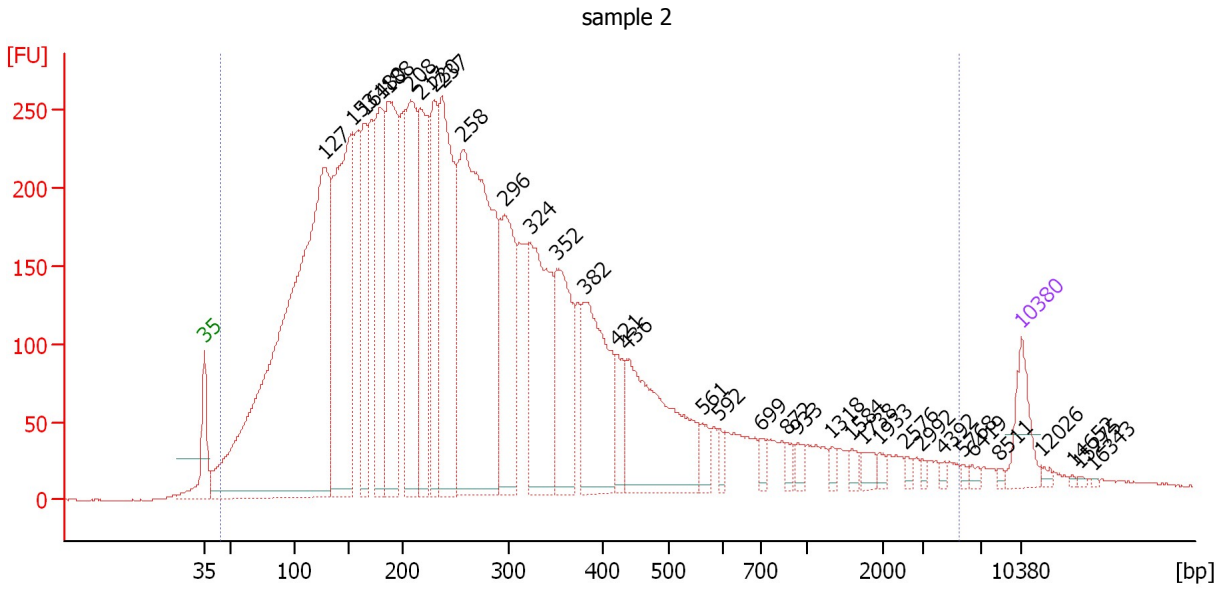
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
46	7,347	359	85,715.5	10,278.23	9,549.3	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 35 Corr. Area 1: 10,846.2
 Noise: 0.7

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	127	2,471.05	29,366.6	
3	153	933.50	9,254.4	
4	164	303.57	2,800.1	
5	180	458.37	3,865.5	
6	188	610.62	4,931.2	
7	208	510.99	3,720.2	
8	217	429.49	3,003.2	
9	230	321.00	2,111.9	
10	237	592.80	3,784.0	
11	258	1,221.37	7,185.6	
12	296	399.10	2,040.4	
13	324	468.61	2,193.6	
14	352	315.52	1,358.2	
15	382	369.01	1,463.6	
16	421	86.92	312.9	
17	436	437.53	1,520.1	
18	561	43.93	118.6	
19	592	23.59	60.3	
20	699	21.53	46.7	
21	872	17.81	30.9	
22	933	20.14	32.7	
23	1,318	13.85	15.9	
24	1,584	16.12	15.4	
25	1,738	22.41	19.5	
26	1,933	12.50	9.8	

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Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,576	8.40	4.9	
28	2,992	6.98	3.5	
29	4,392	6.36	2.2	
30	5,768	5.88	1.5	
31	6,419	8.16	1.9	
32	8,511	4.91	0.9	
33	10,380	75.00	10.9	Upper Marker
34	12,026	0.00	0.0	
35	14,652	0.00	0.0	
36	15,275	0.00	0.0	
37	16,343	0.00	0.0	

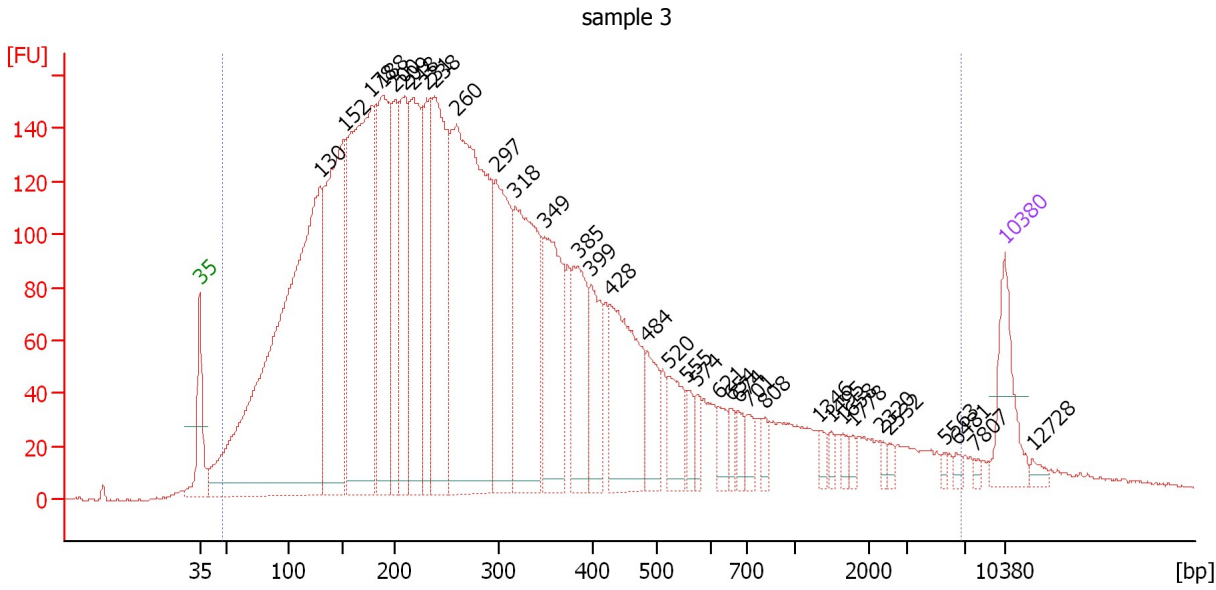
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
44	5,447	350	99,654.9	11,642.90	10,846.2	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 35 Corr. Area 1: 6,939.1
 Noise: 0.7

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	130	1,349.23	15,770.7	
3	152	539.99	5,371.6	
4	178	715.33	6,088.1	
5	188	346.55	2,791.4	
6	200	185.70	1,405.4	
7	209	221.52	1,606.6	
8	218	315.51	2,196.9	
9	231	158.45	1,039.7	
10	238	432.36	2,751.6	
11	260	819.05	4,781.0	
12	297	284.38	1,448.7	
13	318	369.29	1,760.6	
14	349	244.06	1,058.4	
15	385	155.54	612.1	
16	399	106.81	405.8	
17	428	231.27	818.2	
18	484	70.99	222.2	
19	520	71.11	207.0	
20	555	24.50	66.8	
21	574	21.16	55.8	
22	621	27.23	66.5	
23	654	18.66	43.2	
24	674	21.81	49.0	
25	701	22.42	48.5	
26	808	15.51	29.1	

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Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,346	13.57	15.3	
28	1,495	10.10	10.2	
29	1,658	11.32	10.3	
30	1,778	8.26	7.0	
31	2,320	6.96	4.5	
32	2,532	6.64	4.0	
33	5,563	4.96	1.3	
34	6,481	5.87	1.4	
35	7,807	3.91	0.8	
36	▶ 10,380	75.00	10.9	Upper Marker
37	12,728	0.00	0.0	

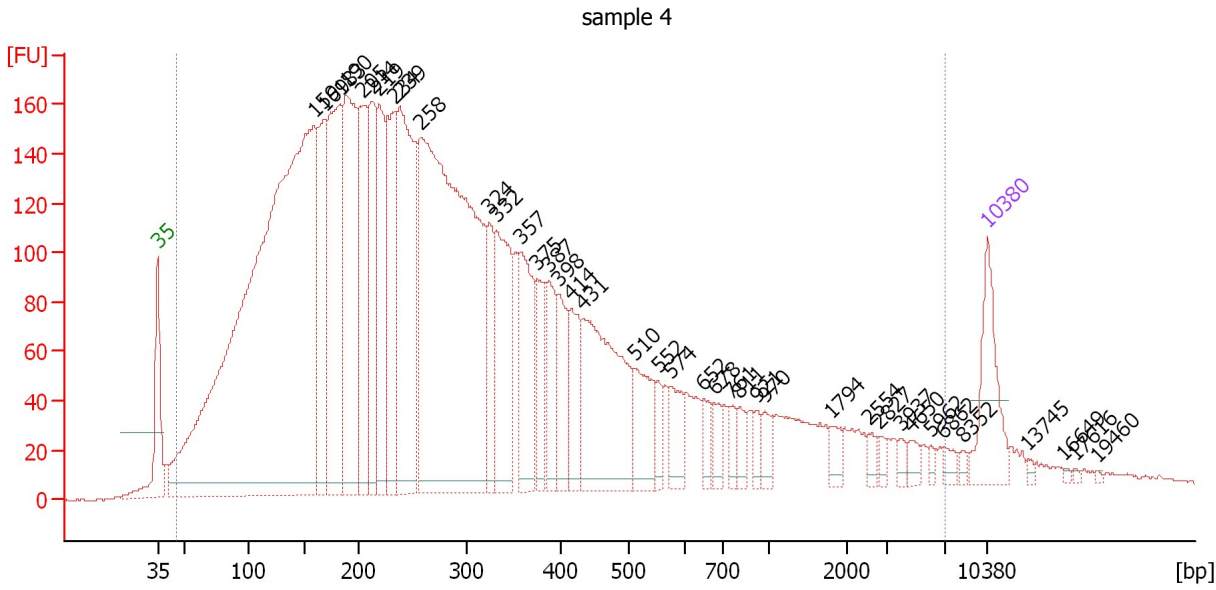
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
48	6,666	419	59,830.5	7,443.35	■ 6,939.1	98	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 39 Corr. Area 1: 7,391.4
 Noise: 0.5

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	159	1,973.75	18,773.6	
3	169	216.38	1,939.1	
4	183	359.72	2,978.8	
5	190	372.61	2,976.7	
6	205	225.91	1,672.5	
7	214	196.93	1,397.3	
8	219	190.69	1,317.6	
9	234	215.80	1,397.8	
10	239	402.54	2,556.0	
11	258	1,074.75	6,300.3	
12	324	89.16	416.5	
13	332	189.55	865.1	
14	357	140.89	597.6	
15	375	76.40	308.9	
16	387	76.50	299.9	
17	398	72.95	277.9	
18	414	81.62	298.7	
19	431	267.73	942.0	
20	510	84.25	250.2	
21	552	25.64	70.4	
22	574	46.50	122.6	
23	652	22.70	52.8	
24	678	24.82	55.4	
25	761	17.94	35.7	
26	811	20.43	38.2	

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Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	921	15.17	25.0	
28	970	19.53	30.5	
29	1,794	16.83	14.2	
30	2,554	10.37	6.2	
31	2,827	7.58	4.1	
32	3,937	8.05	3.1	
33	4,650	11.32	3.7	
34	5,962	5.78	1.5	
35	6,862	9.58	2.1	
36	8,352	5.14	0.9	
37	10,380	75.00	10.9	Upper Marker
38	13,745	0.00	0.0	
39	16,649	0.00	0.0	
40	17,616	0.00	0.0	
41	19,460	0.00	0.0	

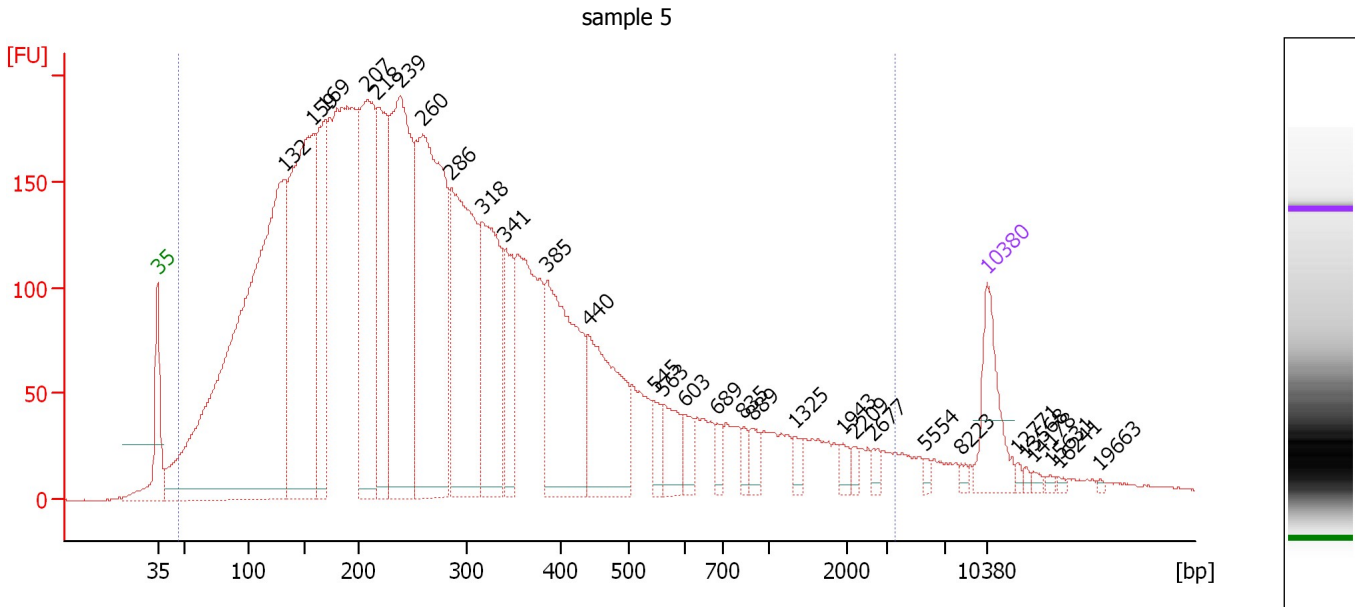
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
45	6,936	446	57,963.6	7,082.20	7,391.4	98	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 30 Corr. Area 1: 8,304.2
 Noise: 0.4

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	132	1,490.75	17,121.9	
3	159	709.50	6,777.1	
4	169	295.03	2,643.6	
5	207	427.14	3,120.1	
6	218	263.59	1,836.1	
7	239	566.21	3,592.9	
8	260	627.67	3,657.3	
9	286	442.95	2,346.1	
10	318	281.75	1,343.4	
11	341	109.87	488.1	
12	385	308.02	1,211.6	
13	440	221.75	764.1	
14	545	28.46	79.1	
15	563	55.69	150.0	
16	603	26.44	66.5	
17	689	17.65	38.8	
18	835	14.25	25.9	
19	889	20.59	35.1	
20	1,325	14.35	16.4	
21	1,943	12.70	9.9	
22	2,209	7.47	5.1	
23	2,677	8.58	4.9	
24	5,554	5.38	1.5	
25	8,223	4.86	0.9	
26	10,380	75.00	10.9	Upper Marker


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Electropherogram Summary Continued ...**... Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	12,771	0.00	0.0	
28	13,568	0.00	0.0	
29	14,178	0.00	0.0	
30	15,631	0.00	0.0	
31	16,241	0.00	0.0	
32	19,663	0.00	0.0	

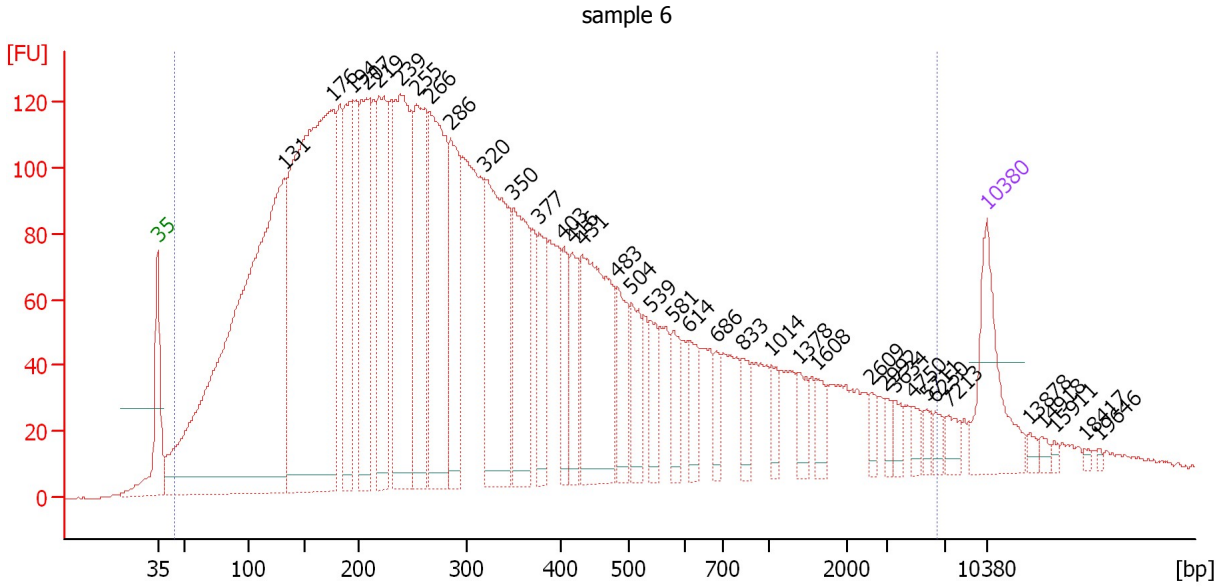
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
46	3,625	355	61,319.3	7,418.61	 8,304.2	98	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 37 Corr. Area 1: 6,179.6
 Noise: 0.5

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	131	1,058.37	12,212.9	
3	176	811.66	6,980.4	
4	194	165.76	1,293.7	
5	207	198.06	1,446.7	
6	219	192.43	1,330.0	
7	239	285.39	1,808.9	
8	255	195.69	1,164.7	
9	266	256.23	1,457.4	
10	286	148.69	787.2	
11	320	245.39	1,161.9	
12	350	146.05	632.1	
13	377	67.99	273.6	
14	403	46.10	173.2	
15	416	58.37	212.5	
16	431	196.98	693.2	
17	483	55.73	174.8	
18	504	48.32	145.2	
19	539	35.96	101.1	
20	581	34.81	90.8	
21	614	31.84	78.5	
22	686	20.43	45.1	
23	833	23.07	42.0	
24	1,014	18.39	27.5	
25	1,378	19.66	21.6	
26	1,608	15.98	15.1	

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Electropherogram Summary Continued ...

... Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,609	11.08	6.4	
28	2,992	8.99	4.6	
29	3,634	10.89	4.5	
30	4,750	10.59	3.4	
31	5,711	7.98	2.1	
32	6,250	8.95	2.2	
33	7,213	11.83	2.5	
34	10,380	75.00	10.9	Upper Marker
35	13,878	0.00	0.0	
36	14,918	0.00	0.0	
37	15,911	0.00	0.0	
38	18,417	0.00	0.0	
39	19,646	0.00	0.0	

Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
44	6,358	508	44,988.3	5,724.54	6,179.6	98	100.0

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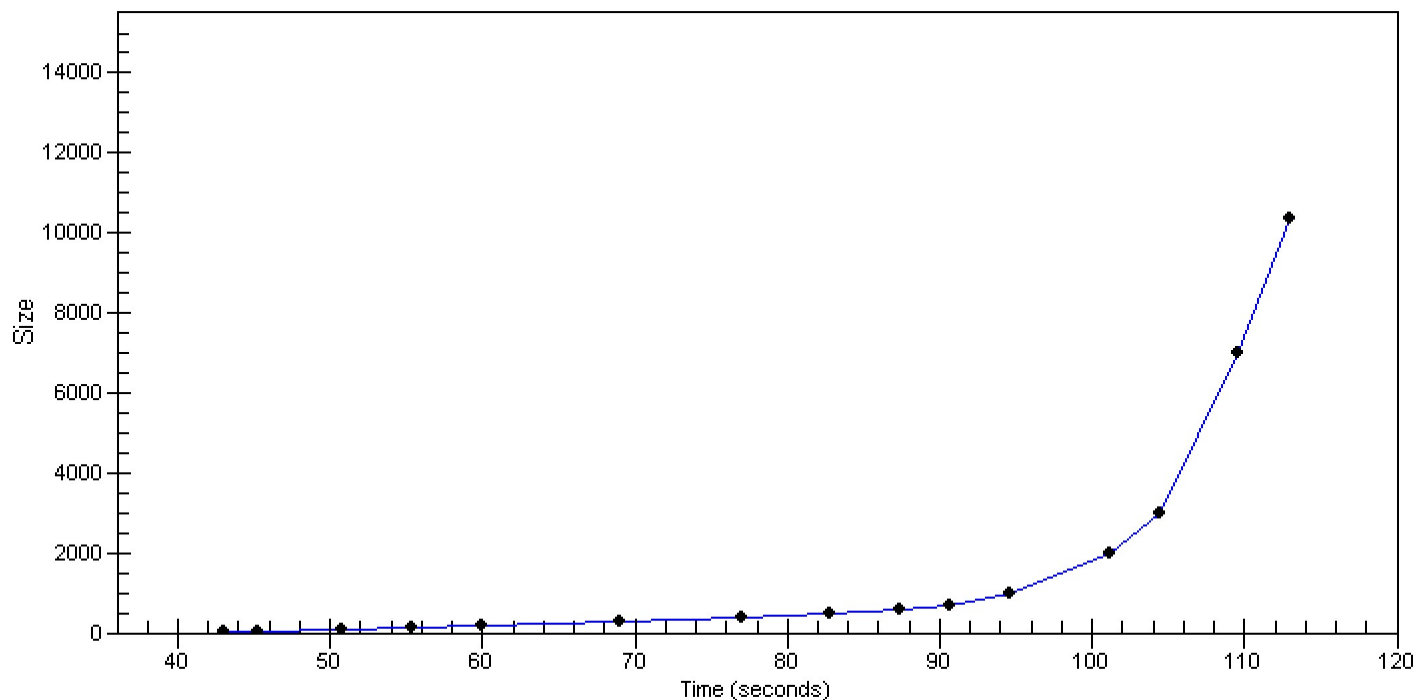
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad

Created: 7/9/2014 11:27:12 AM
Modified: 7/9/2014 11:59:26 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad

Created: 7/9/2014 11:27:12 AM
Modified: 7/9/2014 11:59:26 AM

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:\... bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad

Created: 7/9/2014 11:27:12 AM
 Modified: 7/9/2014 11:59:26 AM

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		7/9/2014 11:54:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-09\2014-07-09_002.xad)		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/9/2014 11:27:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1