

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

Created: 11/12/2014 2:02:43 PM
Modified: 11/12/2014 2:44:06 PM

Electrophoresis File Run Summary

Instrument Information:

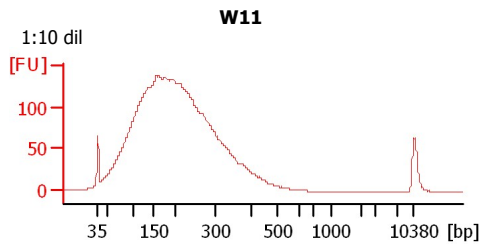
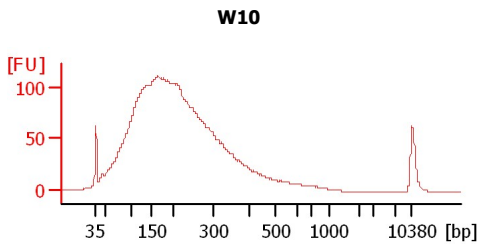
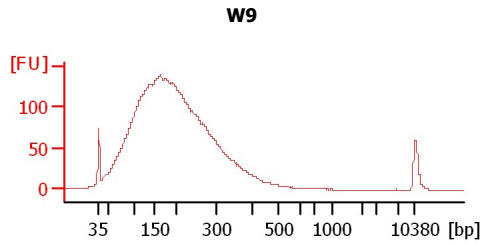
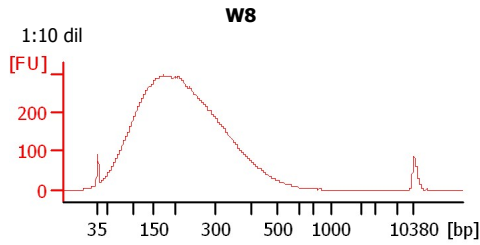
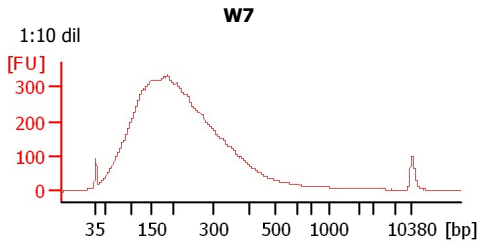
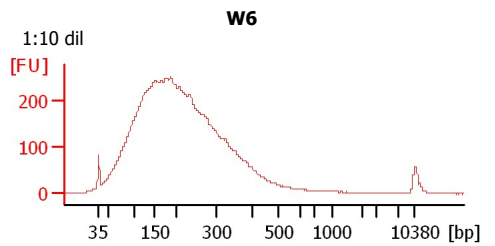
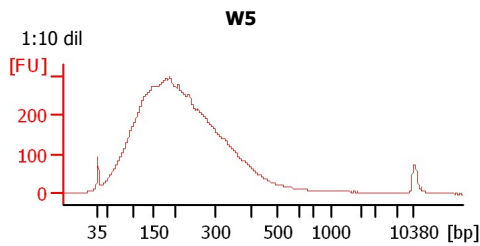
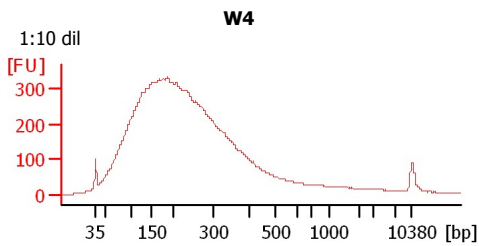
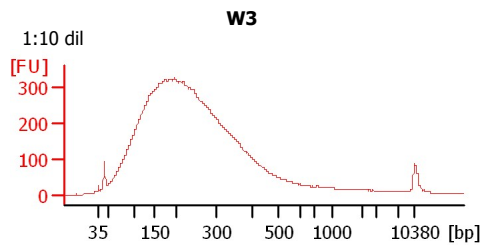
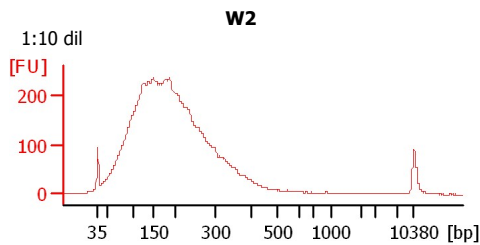
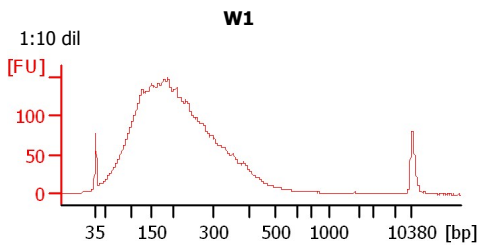
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
W1	1:10 dil	<input type="checkbox"/>	✓			
W2	1:10 dil	<input type="checkbox"/>	✓			
W3	1:10 dil	<input type="checkbox"/>	✓			
W4	1:10 dil	<input type="checkbox"/>	✓			
W5	1:10 dil	<input type="checkbox"/>	✓			
W6	1:10 dil	<input type="checkbox"/>	✓			
W7	1:10 dil	<input type="checkbox"/>	✓			
W8	1:10 dil	<input type="checkbox"/>	✓			
W9		<input type="checkbox"/>	✓			
W10		<input type="checkbox"/>	✓			
W11	1:10 dil	<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

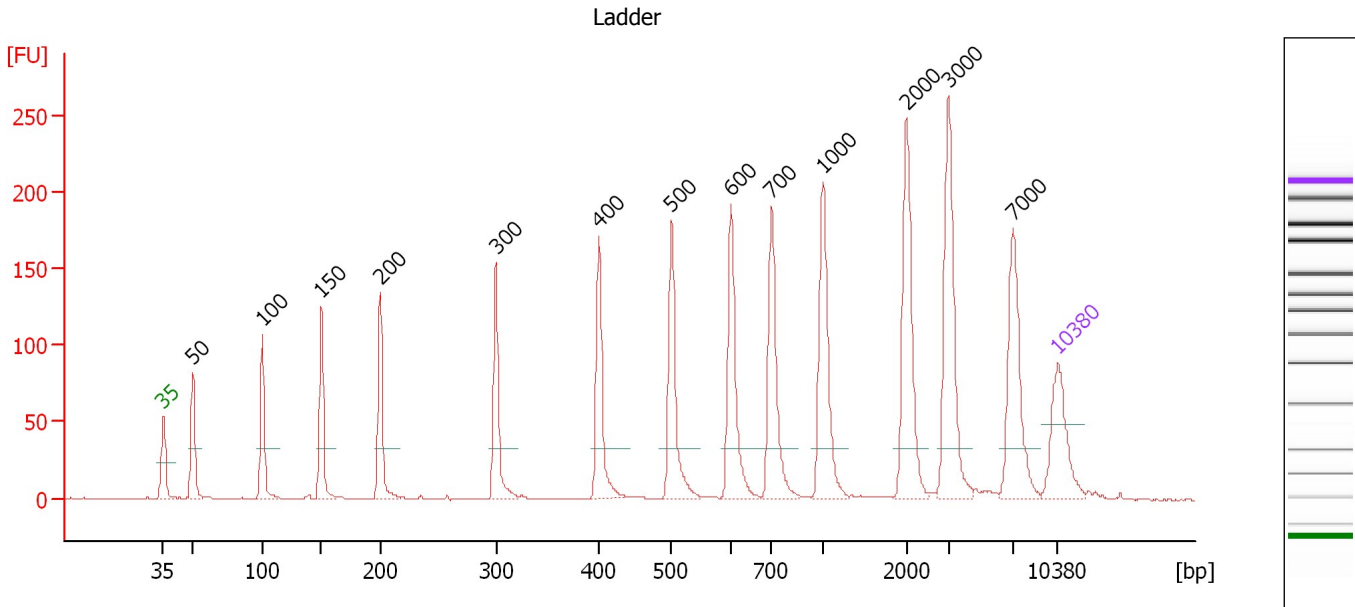
Ladder

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

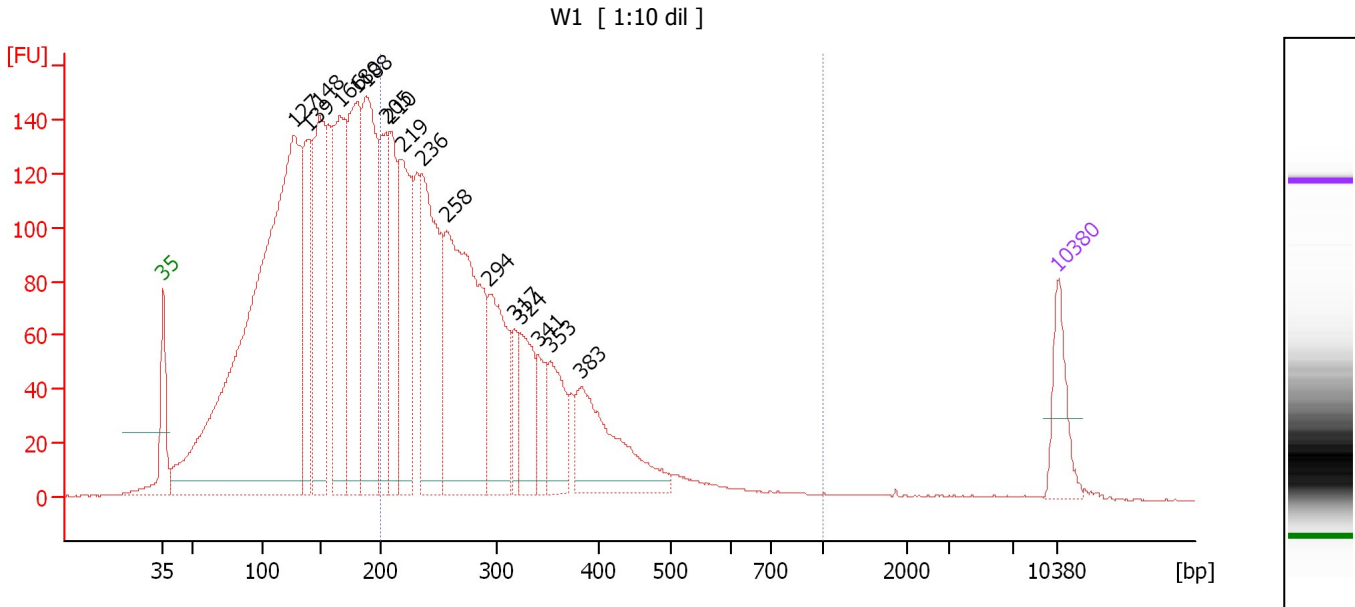
Peak table for Ladder

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 : W1

Number of peaks found: 17 Corr. Area 1: 2,317.0
 Noise: 0.2

Peak table for sample 1 : W1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	2,103.72	25,134.3	
3	139	260.97	2,849.0	
4	148	454.72	4,643.7	
5	166	470.03	4,296.4	
6	180	425.84	3,579.3	
7	188	528.38	4,247.4	
8	205	243.65	1,801.1	
9	210	249.59	1,802.0	
10	219	360.04	2,495.0	
11	236	447.13	2,868.0	
12	258	665.08	3,910.4	
13	294	253.43	1,304.7	
14	317	67.53	322.5	
15	324	142.81	668.2	
16	341	76.97	342.1	
17	353	129.42	555.6	
18	383	259.12	1,024.6	
19	10,380	75.00	10.9	Upper Marker

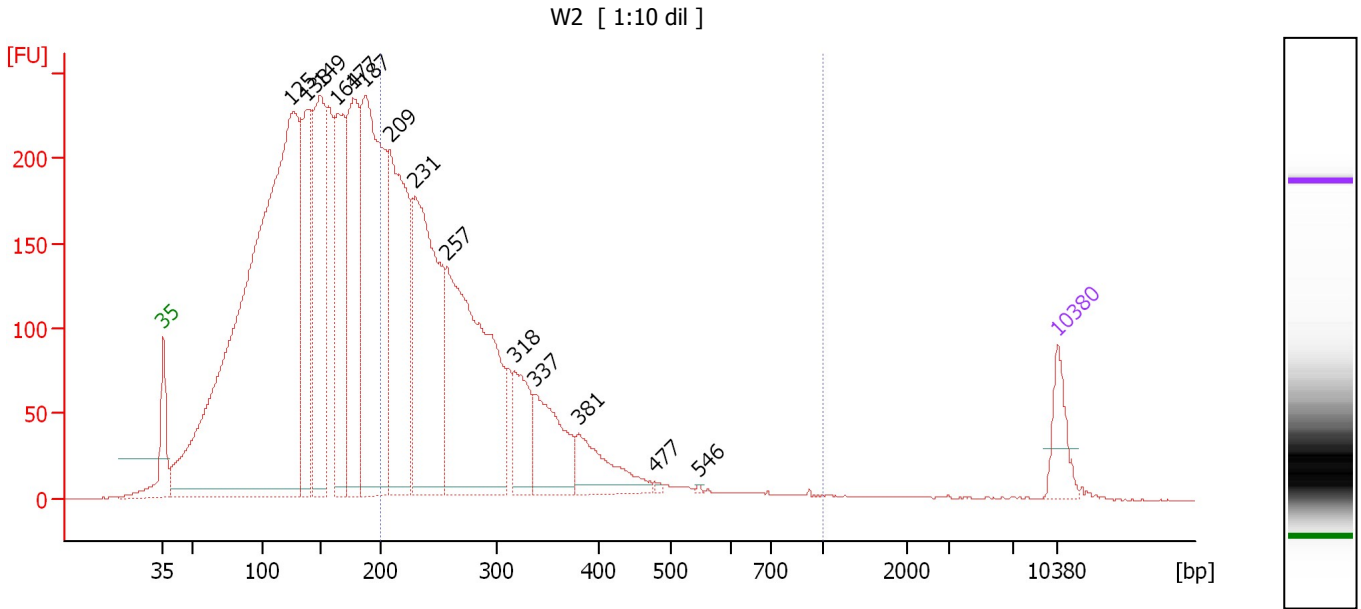
Region table for sample 1 : W1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	295	1,000	2,317.0	44	30.5	3,167.95	17,677.4	■

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Electropherogram Summary Continued ...



Overall Results for sample 2 : W2

Number of peaks found: 14 Corr. Area 1: 2,982.1
 Noise: 0.2

Peak table for sample 2 : W2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	3,437.38	41,812.0	
3	138	587.97	6,453.3	
4	149	759.25	7,714.2	
5	164	564.58	5,225.4	
6	177	658.05	5,622.8	
7	187	1,157.64	9,401.8	
8	209	818.95	5,950.6	
9	231	861.88	5,662.5	
10	257	1,033.96	6,092.6	
11	318	190.02	905.2	
12	337	253.24	1,139.0	
13	381	169.87	676.4	
14	477	5.99	19.0	
15	546	2.93	8.1	
16	10,380	75.00	10.9	Upper Marker

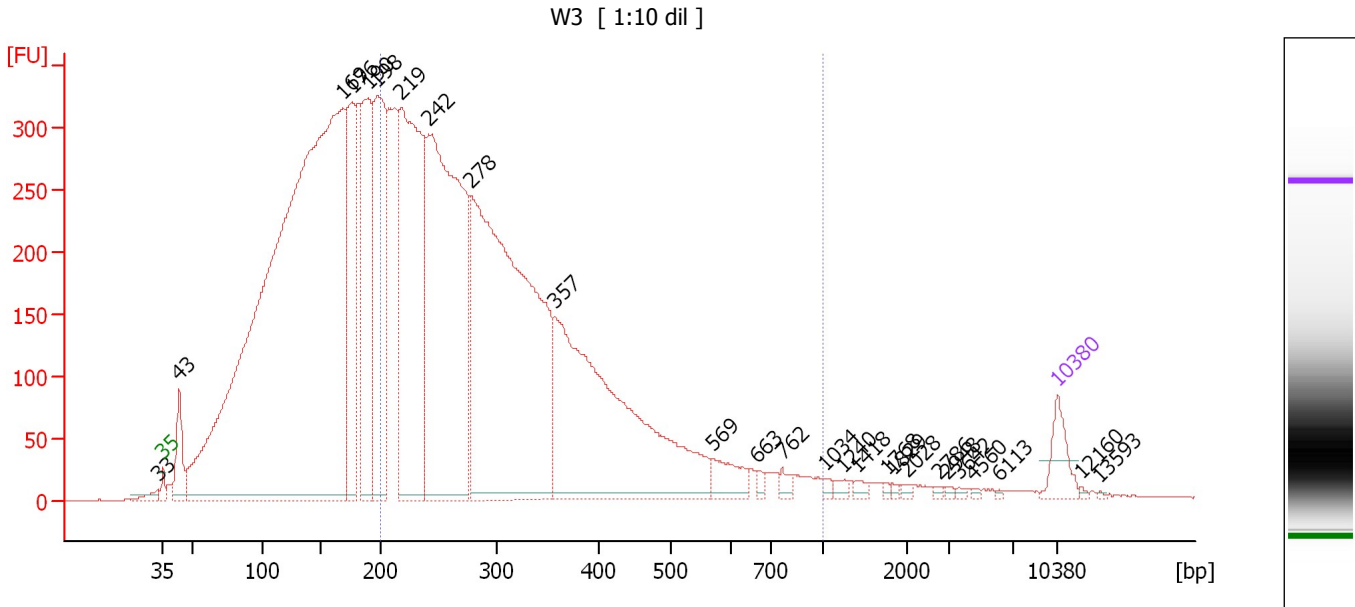
Region table for sample 2 : W2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	285	1,000	2,982.1	37	31.3	3,786.15	21,734.6	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 3 : W3

Number of peaks found: 26 Corr. Area 1: 6,879.2
 Noise: 0.2

Peak table for sample 3 : W3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	43	188.76	6,644.8	
4	169	5,773.51	51,893.6	
5	176	614.72	5,280.7	
6	190	733.29	5,861.6	
7	198	882.61	6,759.4	
8	219	1,452.17	10,069.5	
9	242	1,913.74	11,974.4	
10	278	2,424.95	13,211.3	
11	357	1,504.39	6,387.2	
12	569	99.59	265.2	
13	663	17.04	38.9	
14	762	25.28	50.2	
15	1,034	12.25	17.9	
16	1,240	15.44	18.9	
17	1,418	14.71	15.7	
18	1,768	5.98	5.1	
19	1,829	5.60	4.6	
20	2,028	8.02	6.0	
21	2,786	6.73	3.7	
22	2,948	5.58	2.9	
23	3,642	6.04	2.5	
24	4,560	4.50	1.5	
25	6,113	2.90	0.7	
26	10,380	75.00	10.9	Upper Marker


Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...**... Peak table for sample 3 : W3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	12,160	0.00	0.0	
28	13,593	0.00	0.0	

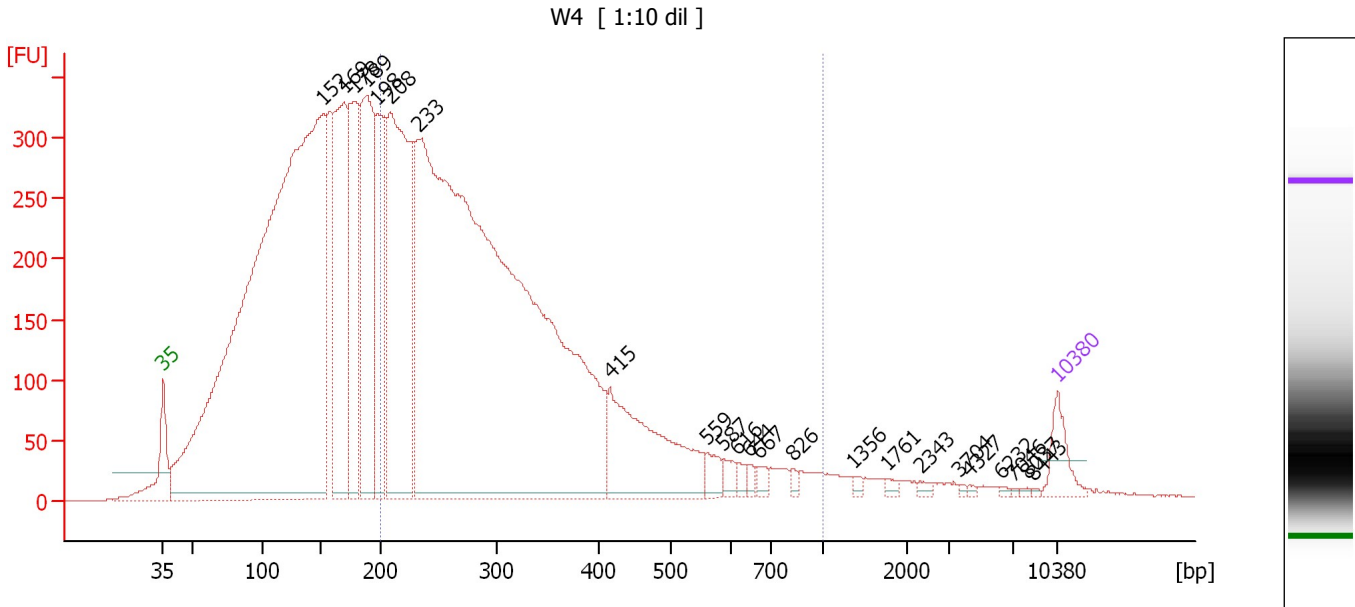
Region table for sample 3 : W3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	319	1,000	6,879.2	52	37.0	8,188.38	43,971.7	

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 4 : W4

Number of peaks found: 23 Corr. Area 1: 6,512.5
 Noise: 0.3


Peak table for sample 4 : W4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	152	5,391.46	53,886.8	
3	169	917.74	8,212.7	
4	178	658.50	5,607.7	
5	189	870.06	6,991.6	
6	198	534.11	4,094.1	
7	208	1,297.01	9,430.9	
8	233	5,521.70	35,841.5	
9	415	559.08	2,038.8	
10	559	49.45	134.0	
11	587	35.99	92.9	
12	616	20.34	50.0	
13	644	18.12	42.7	
14	667	28.23	64.1	
15	826	13.13	24.1	
16	1,356	12.03	13.4	
17	1,761	11.11	9.6	
18	2,343	9.70	6.3	
19	3,704	4.63	1.9	
20	4,327	5.26	1.8	
21	6,232	4.22	1.0	
22	7,046	3.05	0.7	
23	8,037	3.67	0.7	
24	8,443	3.32	0.6	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

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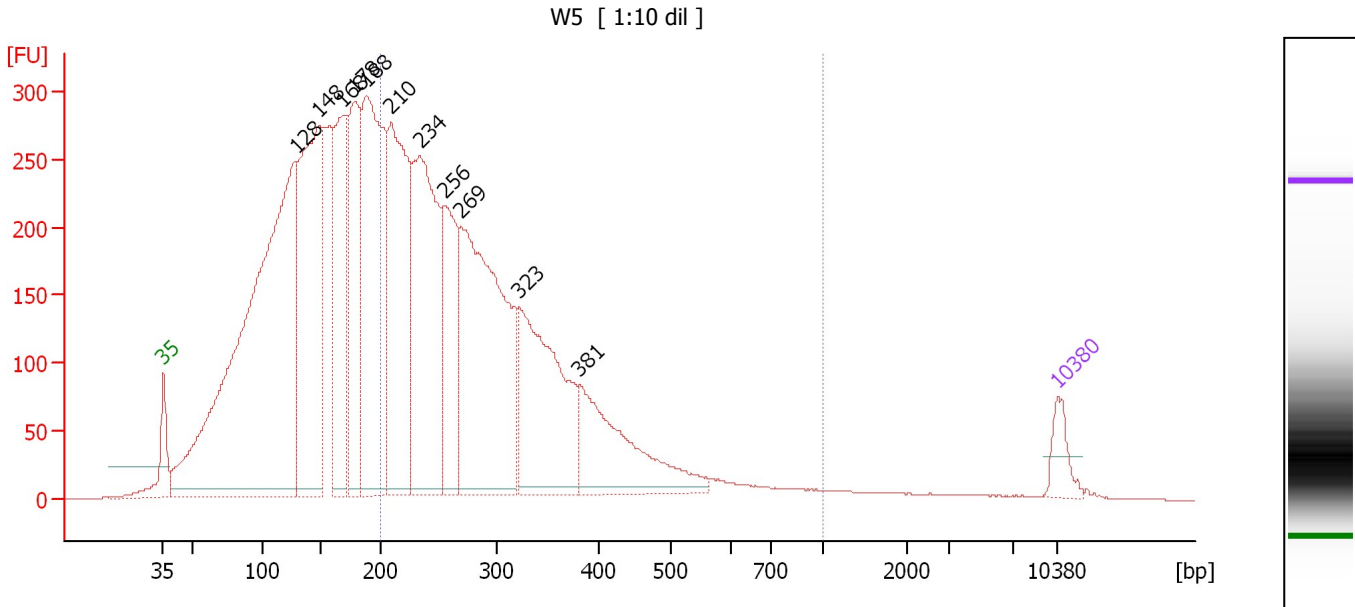
Electropherogram Summary Continued ...**... Region table for sample 4 : W4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	323	1,000	6,512.5	48	38.6	7,279.14	38,903.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : W5

Number of peaks found: 11 Corr. Area 1: 4,968.4
 Noise: 0.3

Peak table for sample 5 : W5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	3,510.57	41,491.7	
3	148	1,513.80	15,501.6	
4	168	804.90	7,263.6	
5	178	770.01	6,549.6	
6	188	1,426.88	11,477.4	
7	210	1,177.92	8,500.7	
8	234	1,235.95	7,994.8	
9	256	566.75	3,348.5	
10	269	1,531.12	8,612.4	
11	323	889.80	4,180.3	
12	381	569.11	2,261.7	
13	10,380	75.00	10.9	Upper Marker

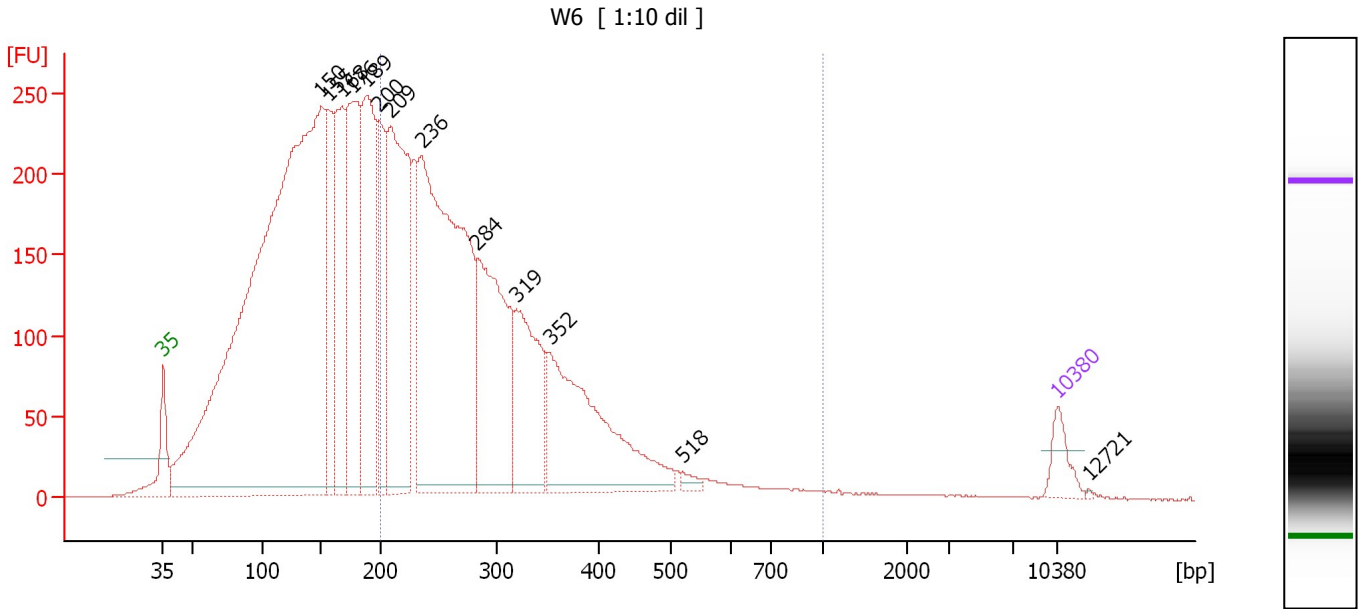
Region table for sample 5 : W5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	303	1,000	4,968.4	47	33.2	6,420.17	35,399.6	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : W6

Number of peaks found: 13 Corr. Area 1: 4,071.9
 Noise: 0.2

Peak table for sample 6 : W6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	150	5,693.98	57,495.4	
3	155	522.21	5,097.8	
4	168	771.48	6,974.8	
5	176	950.83	8,192.9	
6	189	942.95	7,569.8	
7	200	496.88	3,772.3	
8	209	1,258.08	9,100.3	
9	236	2,271.24	14,580.1	
10	284	922.68	4,923.5	
11	319	576.38	2,733.8	
12	352	907.95	3,905.1	
13	518	27.72	81.2	
14	10,380	75.00	10.9	Upper Marker
15	12,721	0.00	0.0	

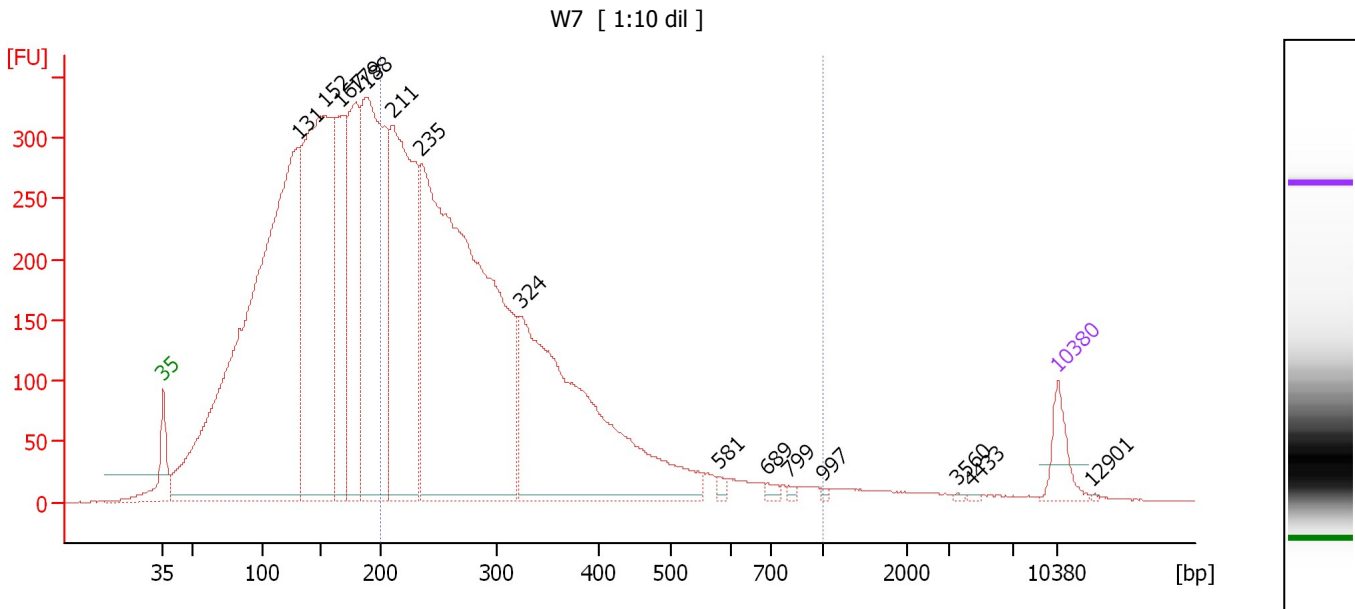
Region table for sample 6 : W6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	300	1,000	4,071.9	45	32.6	6,712.84	37,171.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : W7

Number of peaks found: 15 Corr. Area 1: 5,561.1
 Noise: 0.3

Peak table for sample 7 : W7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	3,419.02	39,689.3	
3	152	1,864.39	18,603.1	
4	167	625.94	5,676.8	
5	179	743.12	6,285.5	
6	188	1,420.66	11,446.5	
7	211	1,318.37	9,479.8	
8	235	2,808.25	18,099.5	
9	324	1,490.59	6,980.6	
10	581	13.79	36.0	
11	689	16.96	37.3	
12	799	9.17	17.4	
13	997	5.39	8.2	
14	3,560	3.01	1.3	
15	4,433	3.36	1.1	
16	10,380	75.00	10.9	Upper Marker
17	12,901	0.00	0.0	

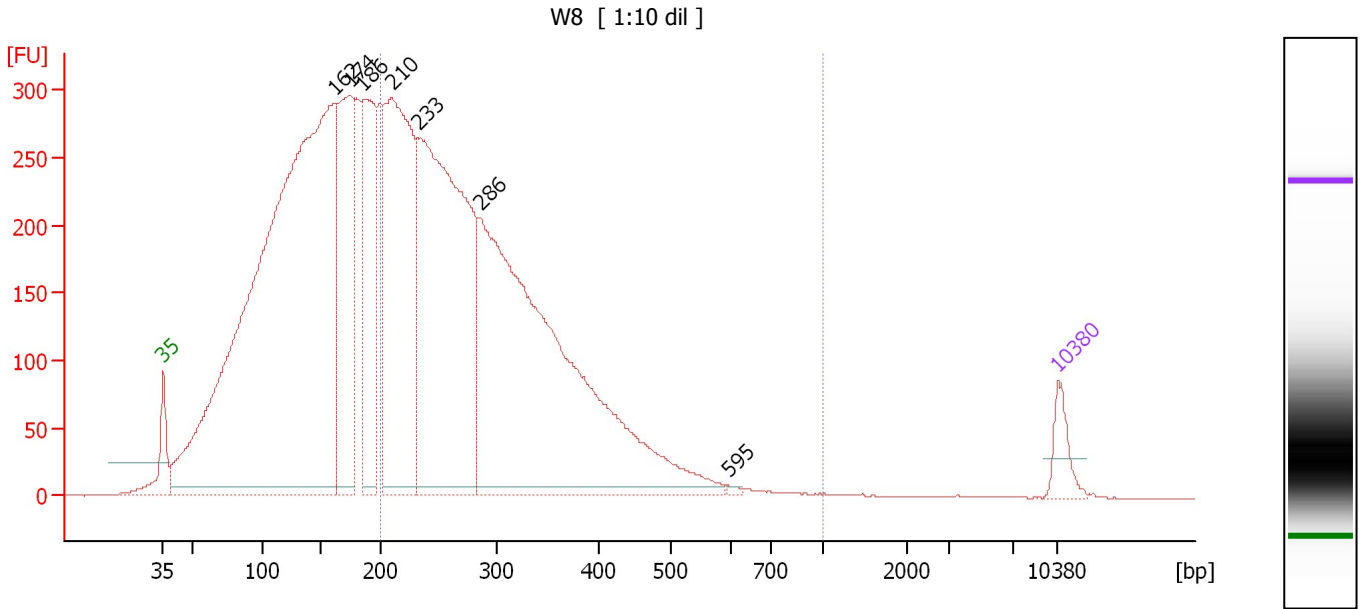
Region table for sample 7 : W7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	309	1,000	5,561.1	46	36.1	5,792.82	31,761.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : W8

Number of peaks found: 7 Corr. Area 1: 5,417.0
 Noise: 0.2

Peak table for sample 8 : W8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	162	5,147.06	48,273.0	
3	174	997.00	8,668.8	
4	186	788.37	6,425.4	
5	210	1,596.46	11,498.9	
6	233	2,297.14	14,950.2	
7	286	2,866.10	15,169.9	
8	595	7.05	18.0	
9	10,380	75.00	10.9	Upper Marker

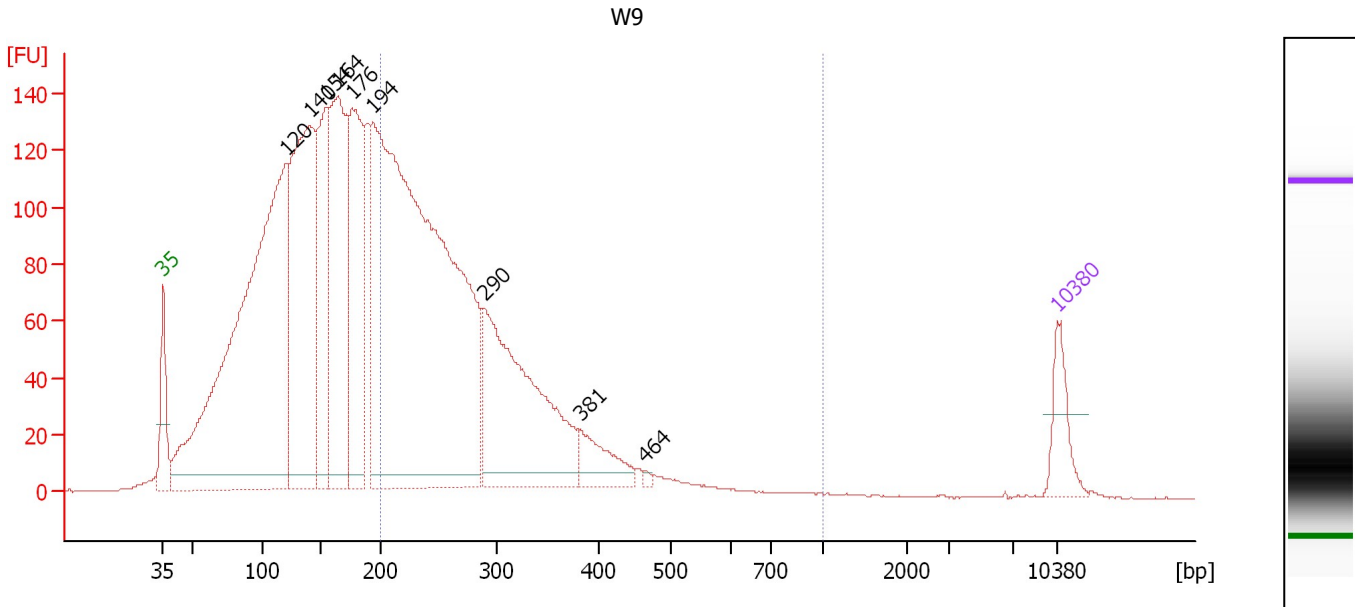
Region table for sample 8 : W8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	298	1,000	5,417.0	48	29.4	6,543.19	36,078.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : W9

Number of peaks found: 9 Corr. Area 1: 1,807.9
 Noise: 0.1

Peak table for sample 9 : W9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	120	2,032.61	25,579.8	
3	140	977.82	10,560.2	
4	154	406.79	3,990.0	
5	164	720.94	6,660.9	
6	176	546.83	4,703.6	
7	194	2,592.39	20,233.5	
8	290	716.09	3,746.2	
9	381	111.36	442.3	
10	464	6.33	20.7	
11	10,380	75.00	10.9	Upper Marker

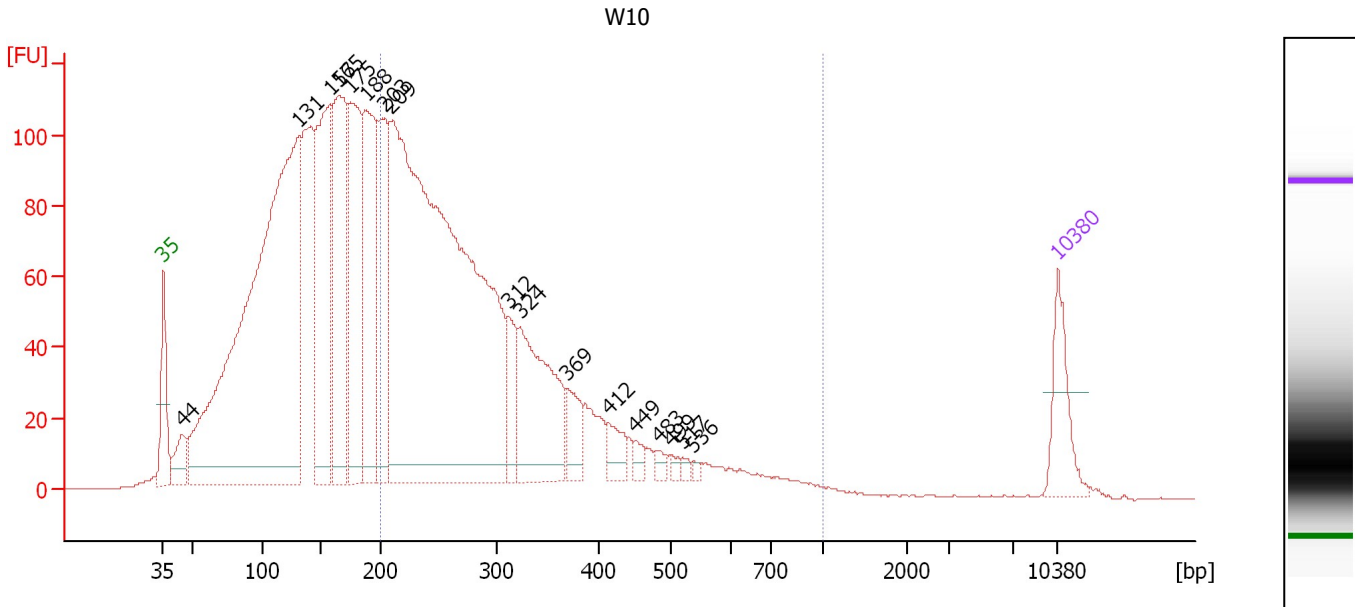
Region table for sample 9 : W9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	284	1,000	1,807.9	40	29.2	3,033.03	17,349.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

Created: 11/12/2014 2:02:43 PM
 Modified: 11/12/2014 2:44:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : W10

Number of peaks found: 17 Corr. Area 1: 1,763.8
 Noise: 0.2

Peak table for sample 10 : W10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	71.07	2,426.9	
3	131	1,720.51	19,938.8	
4	157	470.36	4,537.0	
5	165	426.06	3,911.4	
6	175	370.57	3,206.2	
7	188	362.89	2,926.9	
8	203	266.23	1,984.5	
9	209	1,975.11	14,344.4	
10	312	79.65	387.1	
11	324	286.31	1,339.8	
12	369	60.98	250.4	
13	412	42.95	157.8	
14	449	17.19	58.0	
15	483	12.94	40.6	
16	499	9.35	28.4	
17	517	7.35	21.5	
18	536	5.72	16.2	
19	10,380	75.00	10.9	Upper Marker

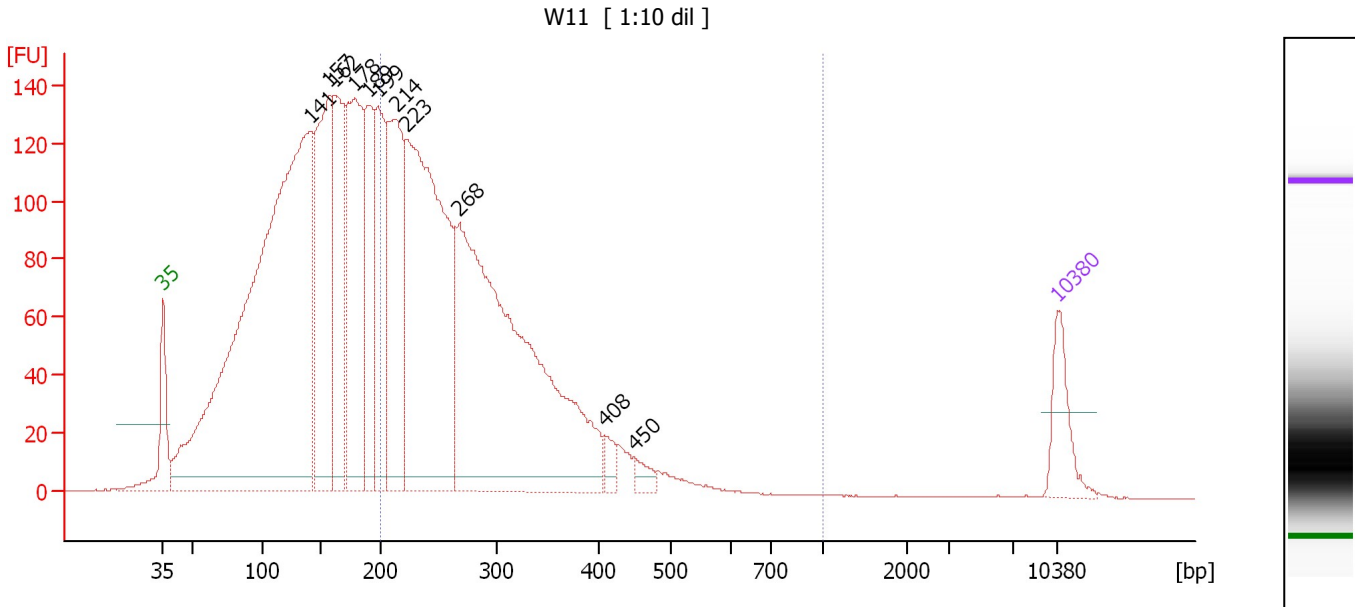
Region table for sample 10 : W10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	308	1,000	1,763.8	45	36.6	2,865.29	15,788.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

Created: 11/12/2014 2:02:43 PM
 Modified: 11/12/2014 2:44:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : W11

Number of peaks found: 11 Corr. Area 1: 2,066.5
 Noise: 0.2

Peak table for sample 11 : W11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	141	2,267.17	24,397.2	
3	157	564.83	5,459.0	
4	162	378.71	3,551.0	
5	178	540.50	4,596.0	
6	189	302.31	2,418.1	
7	199	305.89	2,334.5	
8	214	457.38	3,235.4	
9	223	1,045.55	7,091.8	
10	268	1,335.61	7,544.1	
11	408	28.99	107.7	
12	450	25.13	84.6	
13	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : W11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	285	1,000	2,066.5	44	26.5	3,018.40	17,138.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

Created: 11/12/2014 2:02:43 PM
Modified: 11/12/2014 2:44:06 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad

Created: 11/12/2014 2:02:43 PM
 Modified: 11/12/2014 2:44:06 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/12/2014 2:44:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-12\2014-11-12_003.xad)		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/12/2014 2:02:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1