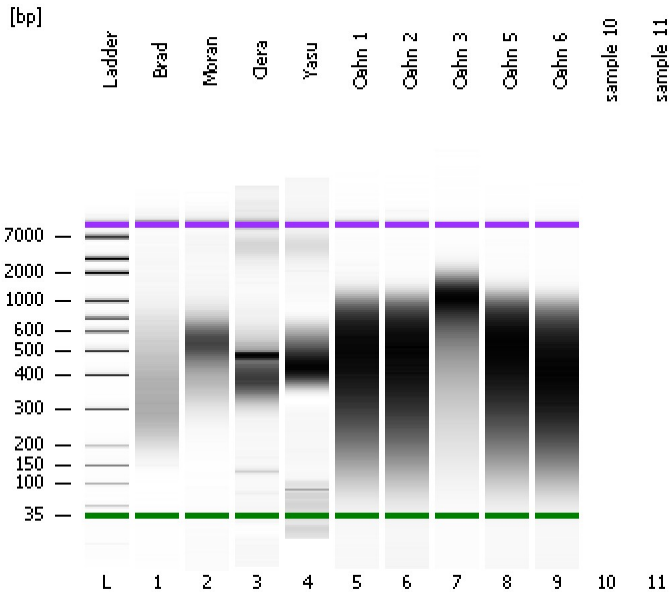


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
Modified: 2/25/2014 4:05:15 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

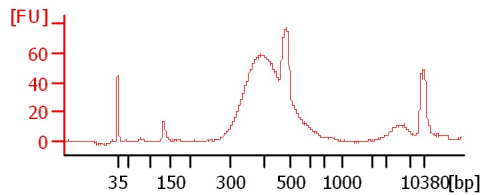
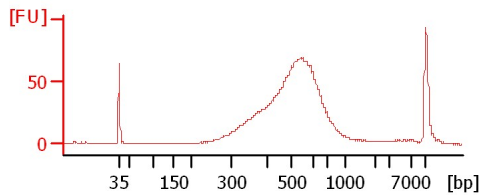
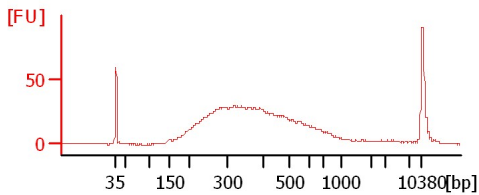
Chip Information:

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

Brad

Moran

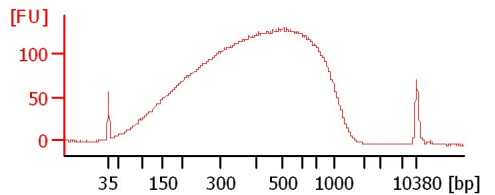
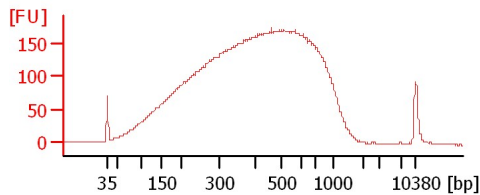
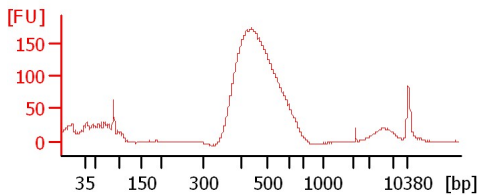
Ciera



Yasu

Oahn 1

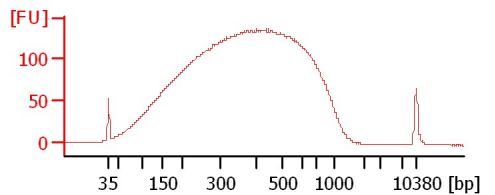
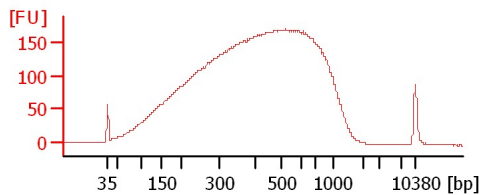
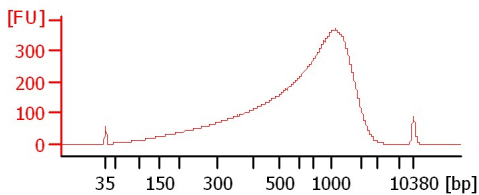
Oahn 2



Oahn 3

Oahn 5

Oahn 6



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Brad		<input type="checkbox"/>	✓			
Moran		<input type="checkbox"/>	✓			
Ciera		<input type="checkbox"/>	✓			
Yasu		<input type="checkbox"/>	✓			
Oahn 1		<input type="checkbox"/>	✓			
Oahn 2		<input type="checkbox"/>	✓			
Oahn 3		<input type="checkbox"/>	✓			
Oahn 5		<input type="checkbox"/>	✓			
Oahn 6		<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\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
Modified: 2/25/2014 4:05:15 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

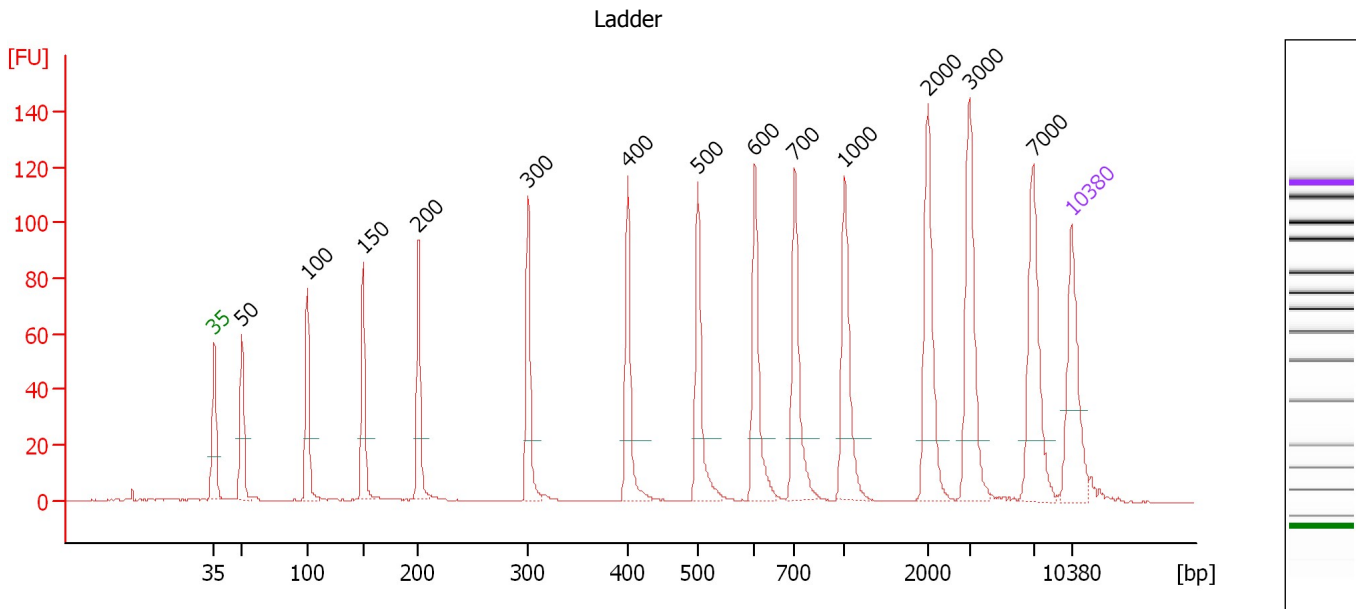
Ladder

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\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

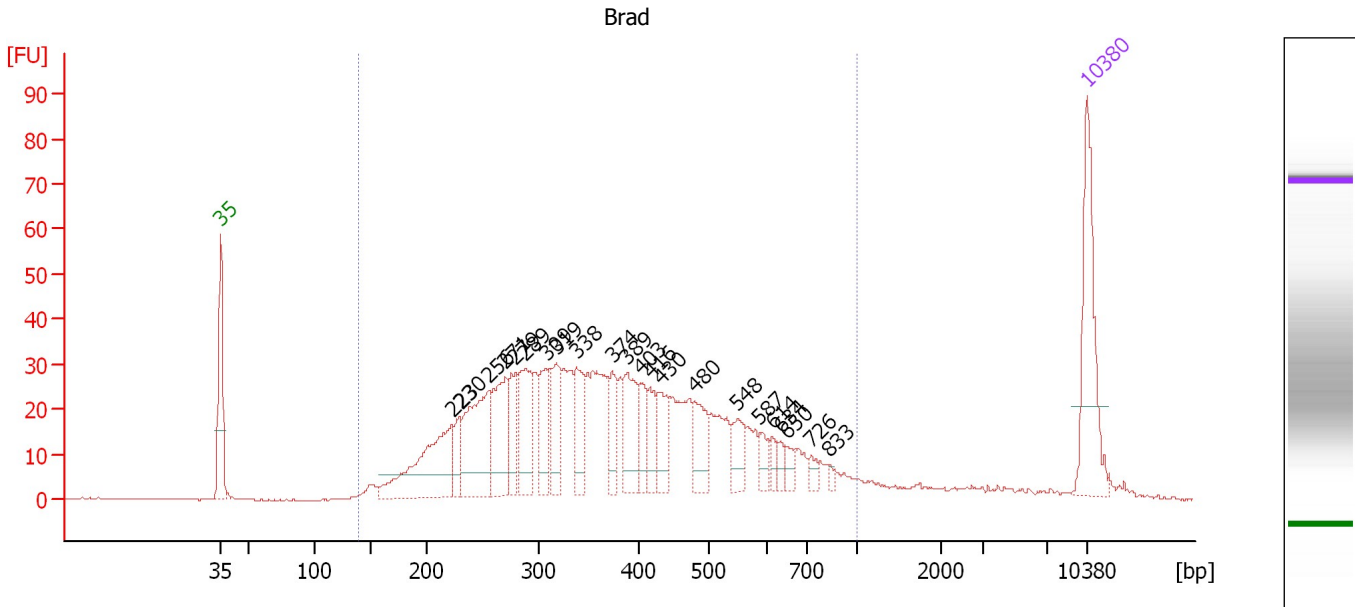
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.26	50	150.00	4,545.5	Ladder Peak
3	50.62	100	150.00	2,272.7	Ladder Peak
4	55.19	150	150.00	1,515.2	Ladder Peak
5	59.67	200	150.00	1,136.4	Ladder Peak
6	68.64	300	150.00	757.6	Ladder Peak
7	76.78	400	150.00	568.2	Ladder Peak
8	82.48	500	150.00	454.5	Ladder Peak
9	87.14	600	150.00	378.8	Ladder Peak
10	90.41	700	150.00	324.7	Ladder Peak
11	94.50	1,000	150.00	227.3	Ladder Peak
12	101.25	2,000	150.00	113.6	Ladder Peak
13	104.64	3,000	150.00	75.8	Ladder Peak
14	109.87	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Brad

Number of peaks found: 22 Corr. Area 1: 1,034.6
 Noise: 0.2

Peak table for sample 1 : Brad


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	61.71	223	132.98	904.8	
3	62.35	230	26.12	172.2	
4	64.68	256	116.94	692.5	
5	66.02	271	76.30	427.0	
6	66.79	279	44.34	240.5	
7	67.66	289	65.94	345.7	
8	69.34	309	40.23	197.5	
9	70.20	319	50.33	239.0	
10	71.75	338	48.35	216.6	
11	74.64	374	32.53	131.9	
12	75.89	389	55.69	216.9	
13	76.97	403	24.51	92.1	
14	77.70	416	27.84	101.4	
15	78.52	430	39.17	137.9	
16	81.36	480	37.96	119.7	
17	84.72	548	27.08	74.9	
18	86.53	587	13.24	34.2	
19	87.61	614	9.32	23.0	
20	88.26	634	8.05	19.2	
21	88.78	650	8.93	20.8	
22	90.76	726	7.77	16.2	
23	92.22	833	3.56	6.5	
24	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...

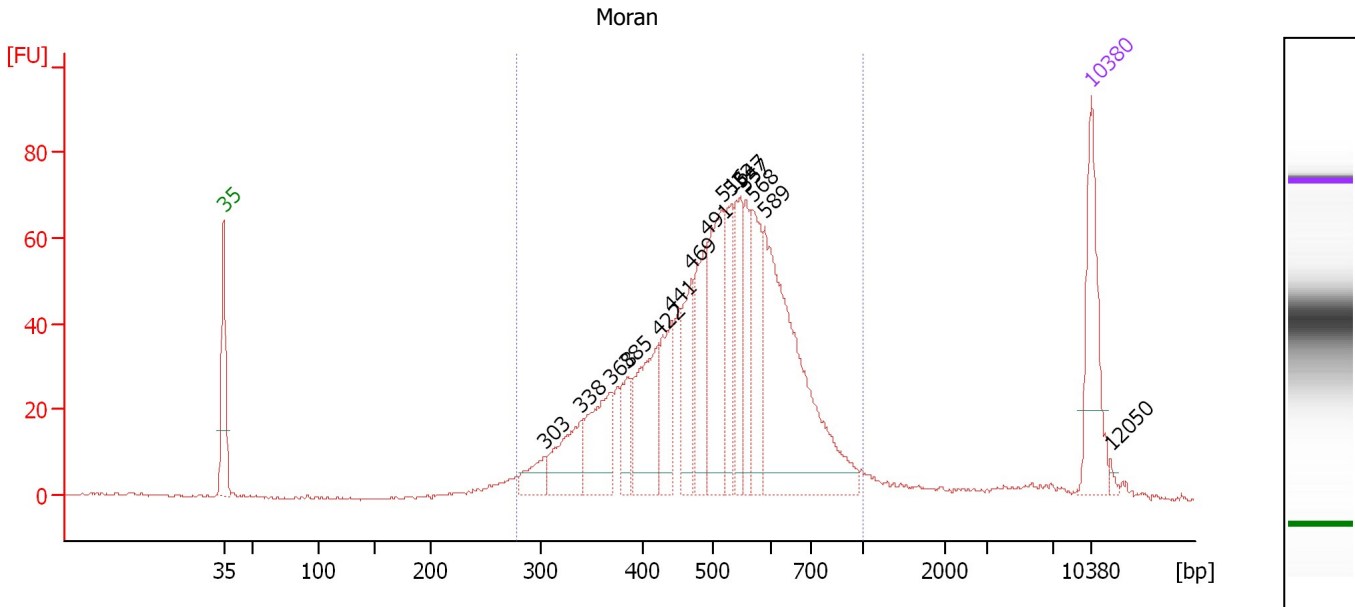
... Region table for sample 1 : Brad

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
139	1,000	392	6,585.3	1,402.43	 1,034.6	94	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Moran

Number of peaks found: 15 Corr. Area 1: 1,164.0
 Noise: 0.3

Peak table for sample 2 : Moran

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.86	303	29.80	149.2	
3	71.74	338	68.92	308.9	
4	74.15	368	87.09	358.9	
5	75.53	385	39.51	155.7	
6	78.02	422	103.79	372.9	
7	79.14	441	62.76	215.4	
8	80.69	469	66.96	216.6	
9	81.98	491	88.01	271.5	
10	83.23	516	129.95	381.6	
11	83.96	532	52.65	150.0	
12	84.69	547	72.79	201.5	
13	85.12	557	50.97	138.8	
14	85.64	568	81.42	217.3	
15	86.63	589	282.36	726.4	
16	113.00	10,380	75.00	10.9	Upper Marker
17	114.55	12,050	0.00	0.0	

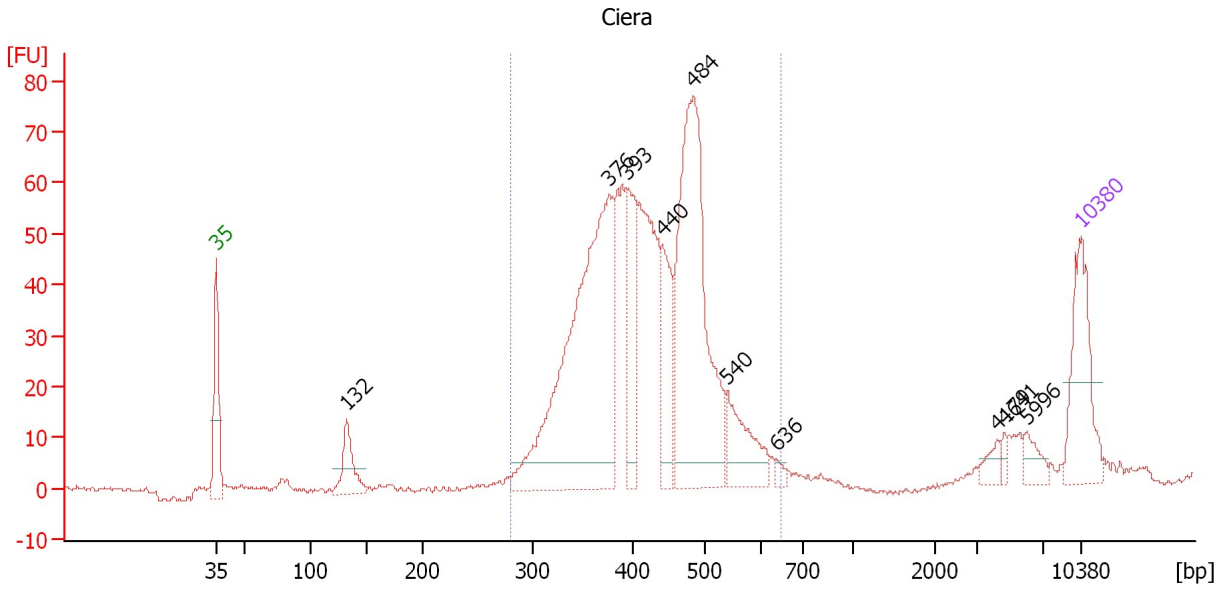
Region table for sample 2 : Moran

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
278	1,000	516	4,304.3	1,352.88	1,164.0	93	23.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Ciera

Number of peaks found: 10 Corr. Area 1: 945.7
 Noise: 0.5

Peak table for sample 3 : Ciera

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.57	132	56.31	644.8	
3	74.81	376	475.50	1,917.4	
4	76.19	393	107.44	414.5	
5	79.08	440	82.96	285.5	
6	81.58	484	359.63	1,125.4	
7	84.34	540	68.29	191.6	
8	88.31	636	6.00	14.3	
9	106.18	4,179	11.68	4.2	
10	106.79	4,641	5.44	1.8	
11	108.55	5,996	14.93	3.8	
12	113.00	10,380	75.00	10.9	Upper Marker

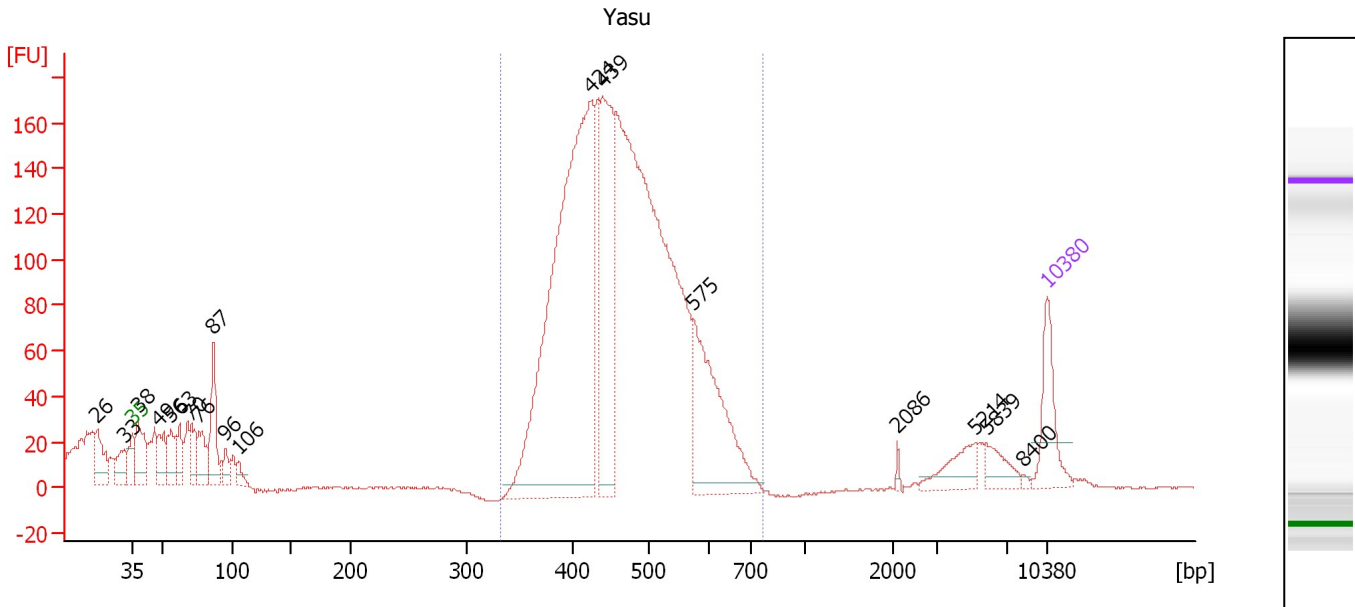
Region table for sample 3 : Ciera

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
280	649	423	5,047.8	1,364.29	945.7	93	16.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Yasu

Number of peaks found: 18 Corr. Area 1: 2,310.9
 Noise: 0.4

Peak table for sample 4 : Yasu

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	40.31	26	0.00	0.0	
2	42.35	33	0.00	0.0	
3	43.00	35	125.00	5,411.3	Lower Marker
4	43.41	38	131.56	5,287.1	
5	45.08	49	82.37	2,558.0	
6	45.94	56	83.06	2,235.9	
7	46.63	63	59.58	1,438.4	
8	47.45	70	65.13	1,402.2	
9	48.06	76	86.73	1,726.9	
10	49.20	87	139.64	2,438.5	
11	50.14	96	33.02	523.7	
12	51.16	106	22.92	327.9	
13	78.12	424	1,130.86	4,045.7	
14	78.98	439	368.42	1,272.9	
15	85.95	575	285.80	753.7	
16	101.54	2,086	5.39	3.9	
17	107.53	5,214	49.37	14.3	
18	108.35	5,839	34.92	9.1	
19	111.16	8,400	3.09	0.6	
20	113.00	10,380	75.00	10.9	Upper Marker

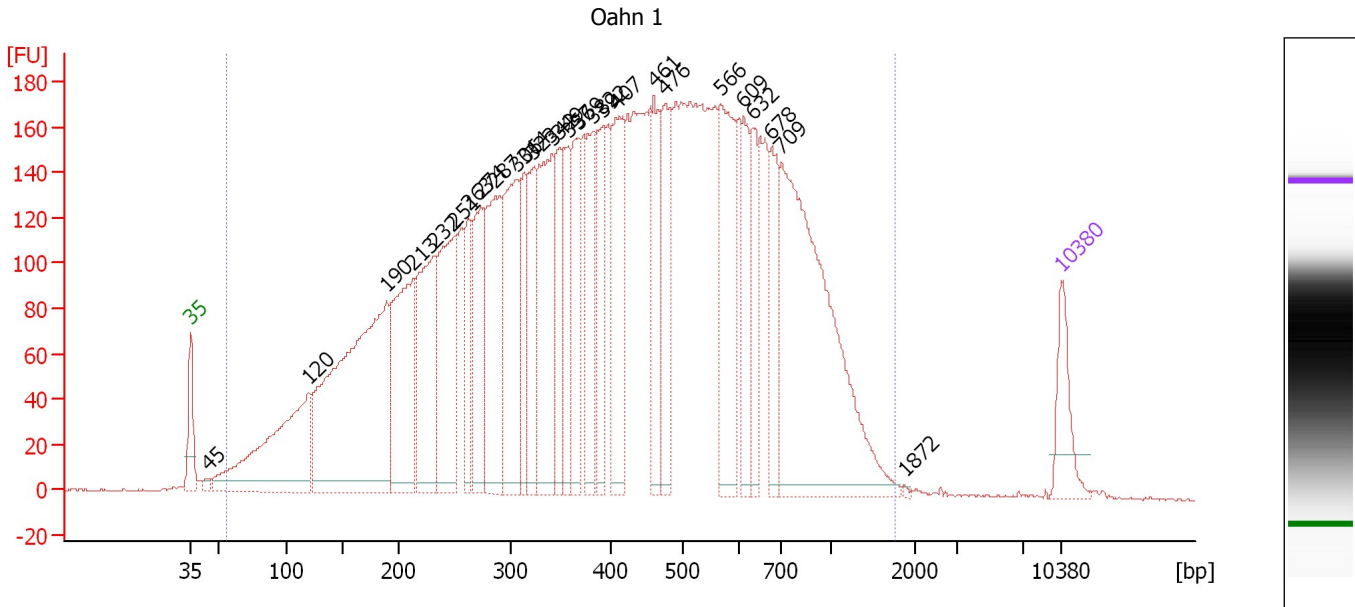
Region table for sample 4 : Yasu

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
332	763	468	9,268.3	2,788.11	2,310.9	89	14.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Oahn 1

Number of peaks found: 27 Corr. Area 1: 7,982.1
 Noise: 0.5

Peak table for sample 5 : Oahn 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.47	45	12.55	425.1	
3	52.45	120	513.95	6,487.4	
4	58.73	190	933.40	7,461.8	
5	60.84	213	394.76	2,807.3	
6	62.59	232	344.55	2,245.4	
7	64.28	251	368.86	2,222.9	
8	65.34	263	137.31	790.5	
9	66.30	274	213.21	1,179.3	
10	67.50	287	343.92	1,814.2	
11	69.15	306	334.82	1,656.7	
12	69.79	314	142.29	686.4	
13	70.52	323	163.85	768.3	
14	72.04	342	321.17	1,424.0	
15	72.63	349	152.39	661.5	
16	73.32	357	150.66	638.5	
17	74.24	369	171.41	704.3	
18	75.34	382	158.54	628.3	
19	76.17	392	168.16	649.2	
20	77.17	407	241.86	900.6	
21	80.25	461	198.10	651.4	
22	81.12	476	165.09	525.4	
23	85.57	566	280.38	750.3	
24	87.45	609	142.21	353.6	
25	88.18	632	106.66	255.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : Qahn 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	89.70	678	139.03	310.6	
27	90.52	709	764.63	1,635.1	
28	100.39	1,872	2.48	2.0	
29	113.00	10,380	75.00	10.9	Upper Marker

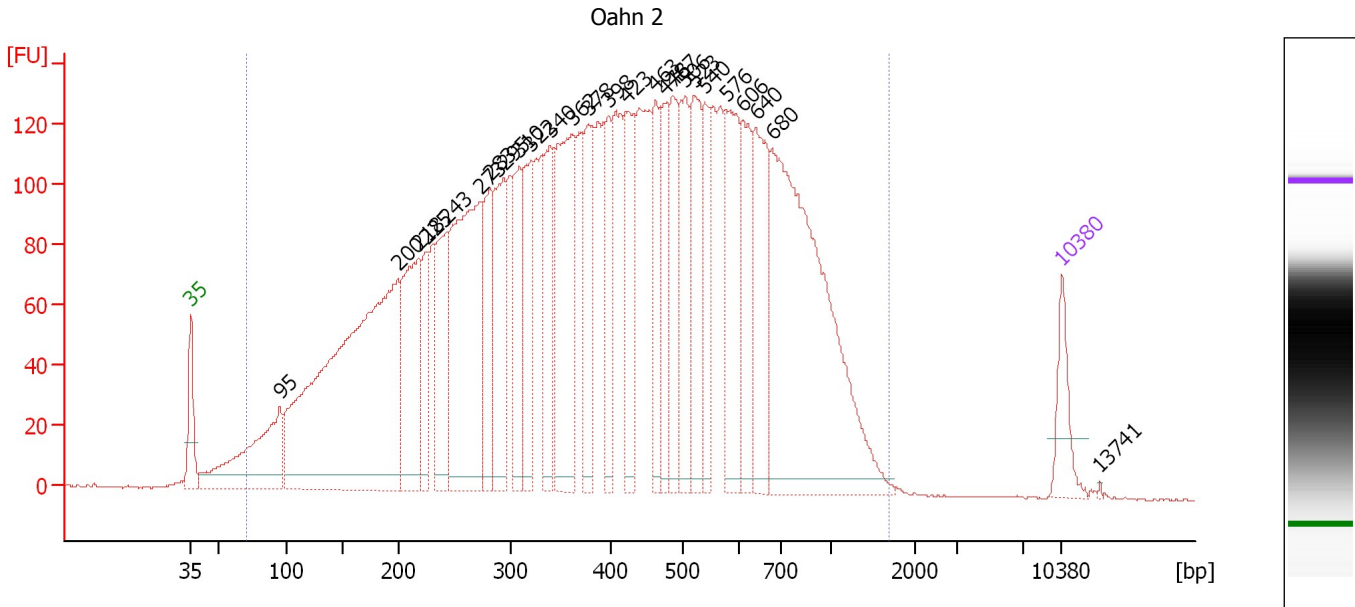
Region table for sample 5 : Qahn 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
55	1,767	451	48,940.4	9,086.88	7,982.1	99	53.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Oahn 2

Number of peaks found: 26 Corr. Area 1: 6,047.6
 Noise: 0.2

Peak table for sample 6 : Oahn 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	50.12	95	418.55	6,653.5	
3	59.65	200	1,533.06	11,628.2	
4	61.33	218	406.73	2,821.3	
5	61.88	225	153.43	1,034.8	
6	63.56	243	265.42	1,652.8	
7	66.26	273	731.34	4,052.9	
8	67.09	283	230.29	1,234.1	
9	68.16	295	295.90	1,521.5	
10	69.42	310	220.45	1,079.0	
11	70.40	322	231.68	1,091.7	
12	71.88	340	231.10	1,030.4	
13	73.70	362	463.50	1,939.3	
14	74.95	378	226.26	908.0	
15	76.58	398	159.81	609.1	
16	78.12	423	231.83	829.6	
17	80.35	463	168.95	553.4	
18	81.14	476	180.02	572.5	
19	81.74	487	180.81	562.5	
20	82.77	506	223.65	669.6	
21	83.56	523	240.93	697.9	
22	84.35	540	155.01	434.9	
23	86.02	576	266.95	702.2	
24	87.33	606	202.58	506.8	
25	88.44	640	270.82	641.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...**... Peak table for sample 6 : Qahn 2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	89.74	680	1,009.98	2,251.4	
27	113.00	10,380	75.00	10.9	Upper Marker
28	116.12	13,741	0.00	0.0	

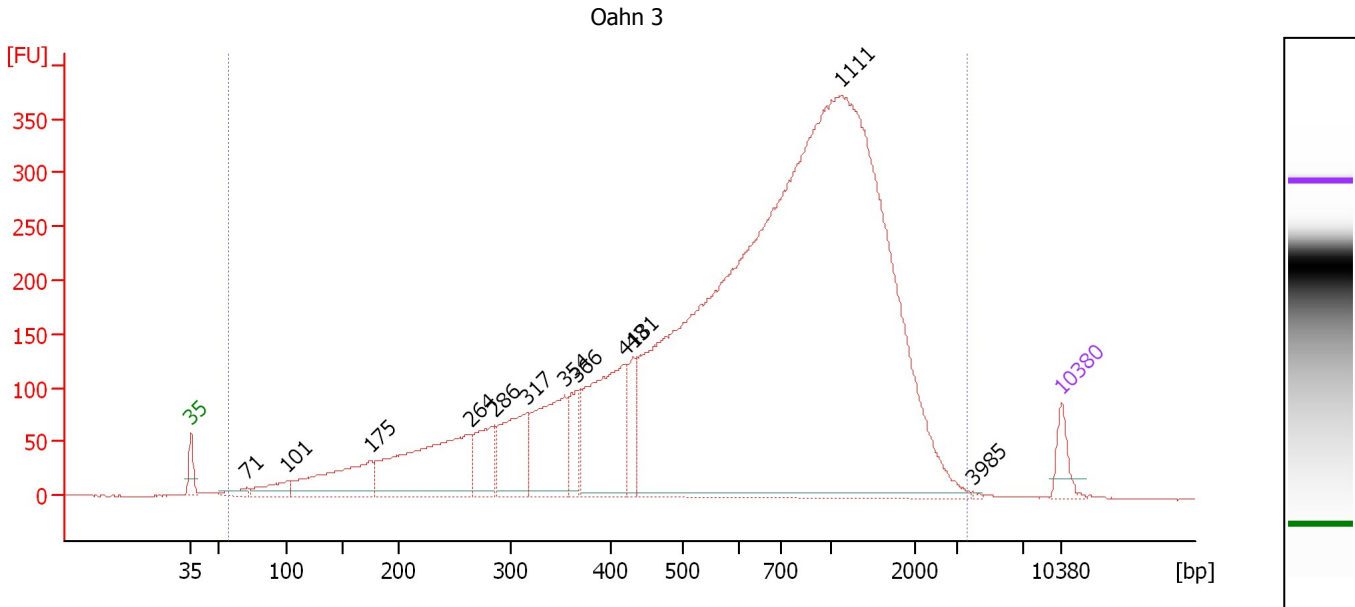
Region table for sample 6 : Qahn 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
70	1,694	446	56,792.5	10,581.70	6,047.6	99	52.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Oahn 3

Number of peaks found: 12 Corr. Area 1: 8,777.6
 Noise: 0.2

Peak table for sample 7 : Oahn 3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.46	71	47.08	1,011.5	
3	50.74	101	123.20	1,843.0	
4	57.43	175	440.33	3,813.3	
5	65.45	264	809.93	4,641.5	
6	67.39	286	250.49	1,326.6	
7	70.00	317	374.24	1,790.2	
8	73.04	354	497.68	2,129.8	
9	74.04	366	157.37	650.9	
10	77.83	418	695.97	2,519.9	
11	78.55	431	147.80	519.6	
12	95.25	1,111	6,228.49	8,490.7	
13	105.93	3,985	4.10	1.6	
14	113.00	10,380	75.00	10.9	Upper Marker

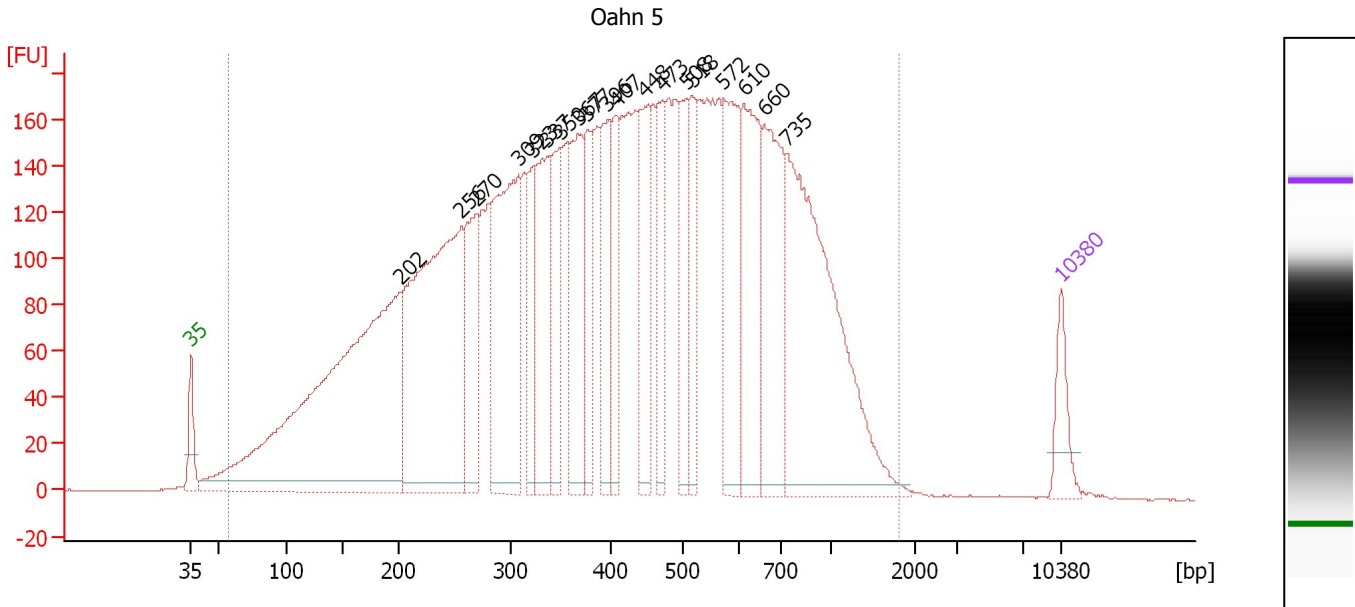
Region table for sample 7 : Oahn 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
57	3,603	821	37,872.6	10,789.96	8,777.6	99	62.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

Created: 2/25/2014 3:21:35 PM
 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Oahn 5

Number of peaks found: 19 Corr. Area 1: 7,806.4
 Noise: 0.2

Peak table for sample 8 : Oahn 5

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	59.85	202	1,768.70	13,265.5	
3	64.74	256	1,193.65	7,051.6	
4	65.98	270	309.55	1,734.8	
5	69.38	309	654.47	3,208.0	
6	70.48	323	175.40	823.7	
7	71.63	337	348.52	1,568.1	
8	72.69	350	240.62	1,042.6	
9	74.12	367	320.01	1,319.9	
10	74.89	377	199.26	801.4	
11	76.47	396	248.03	948.6	
12	77.19	407	182.70	680.0	
13	79.53	448	272.47	921.0	
14	80.92	473	206.76	662.9	
15	82.84	508	214.08	639.1	
16	83.31	518	187.03	547.2	
17	85.85	572	351.88	931.6	
18	87.48	610	371.98	923.4	
19	89.11	660	390.92	897.1	
20	90.88	735	900.21	1,856.6	
21	113.00	10,380	75.00	10.9	Upper Marker

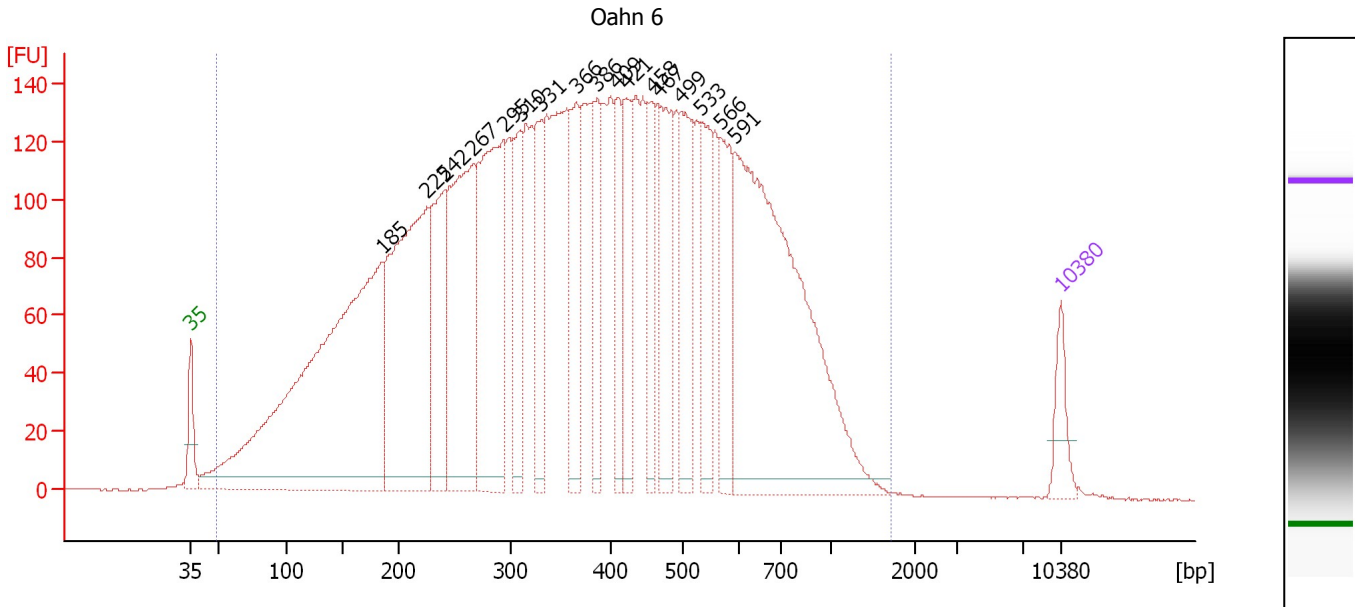
Region table for sample 8 : Oahn 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
57	1,796	460	58,155.4	10,918.80	7,806.4	99	54.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

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 Modified: 2/25/2014 4:05:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Oahn 6

Number of peaks found: 17 Corr. Area 1: 6,498.7
 Noise: 0.2

Peak table for sample 9 : Oahn 6

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	58.35	185	2,191.62	17,928.5	
3	61.96	225	1,153.27	7,750.6	
4	63.40	242	429.99	2,697.2	
5	65.71	267	802.16	4,547.0	
6	68.16	295	827.90	4,257.1	
7	69.46	310	290.78	1,420.9	
8	71.19	331	285.79	1,306.8	
9	74.03	366	323.46	1,338.3	
10	75.67	386	203.83	799.5	
11	77.30	409	197.07	729.8	
12	77.98	421	240.82	866.8	
13	80.09	458	217.80	720.4	
14	80.62	467	340.62	1,104.3	
15	82.40	499	327.09	994.0	
16	84.04	533	251.67	714.9	
17	85.58	566	262.60	702.4	
18	86.73	591	1,408.14	3,608.8	
19	113.00	10,380	75.00	10.9	Upper Marker

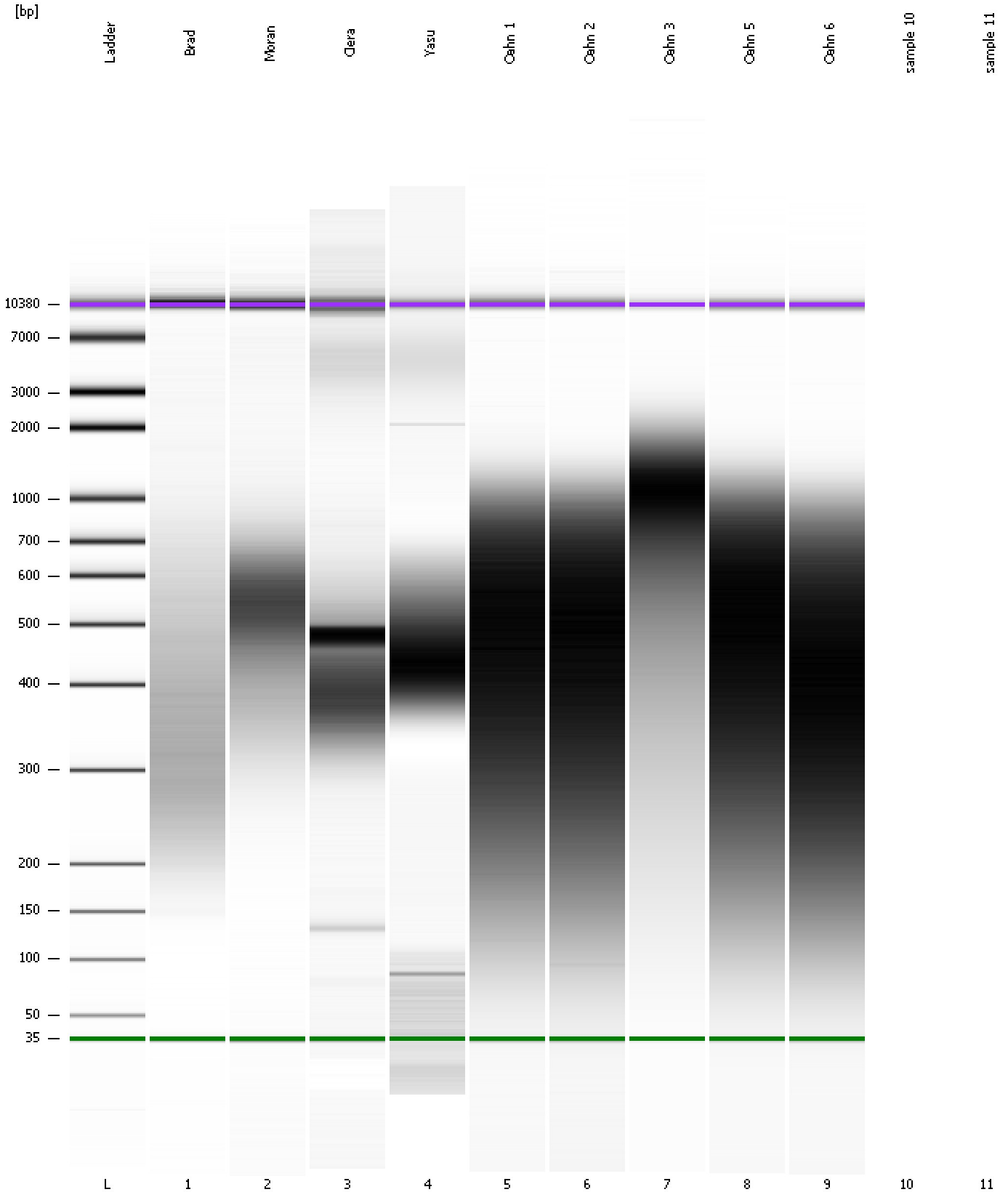
Region table for sample 9 : Oahn 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
48	1,719	406	76,872.2	13,003.87	6,498.7	100	51.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

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Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-25\2014-02-25_004.xad

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Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.