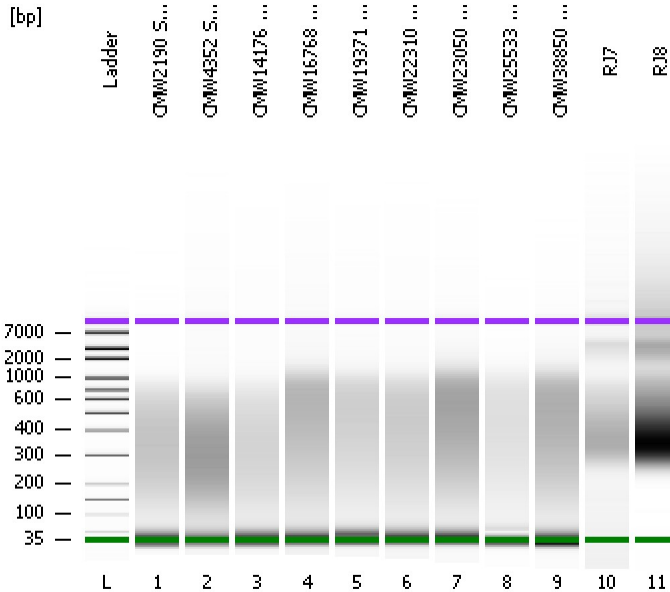


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
Modified: 5/15/2014 12:52:54 PM

Electrophoresis File Run Summary



Instrument Information:

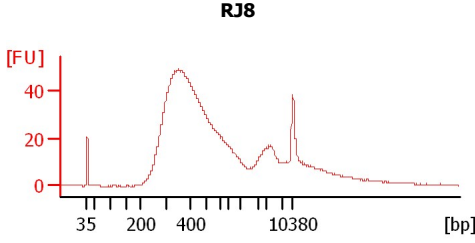
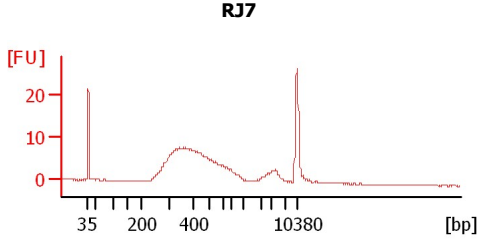
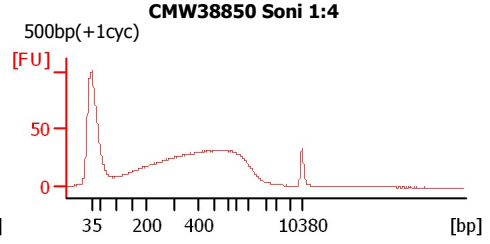
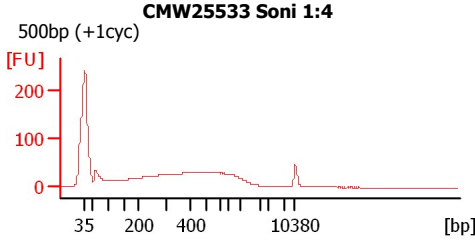
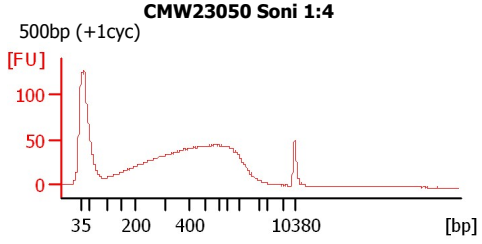
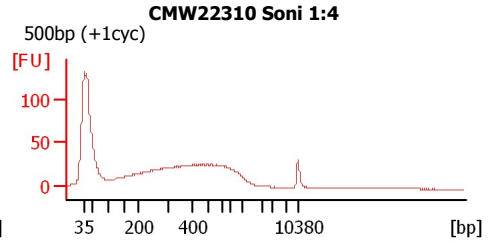
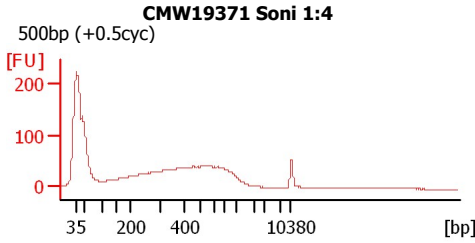
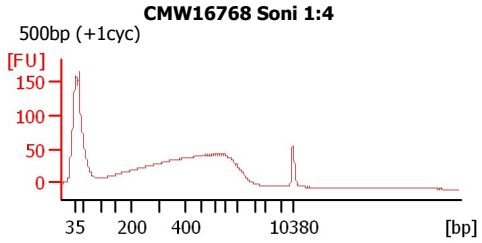
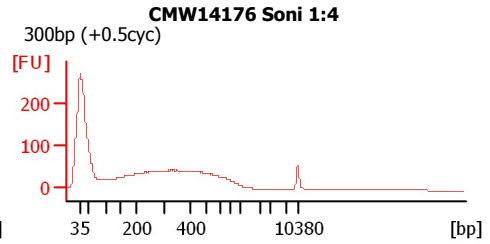
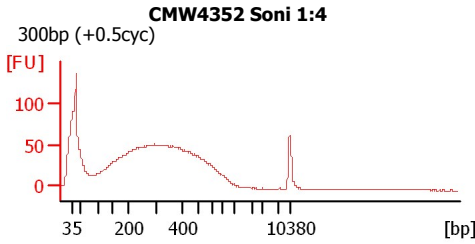
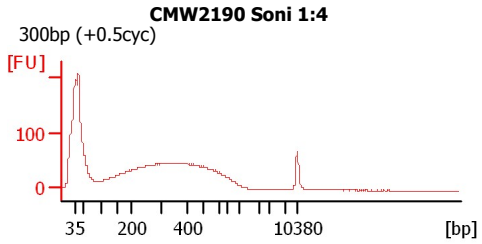
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
Modified: 5/15/2014 12:52:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW2190 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW4352 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW14176 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW16768 Soni 1:4	500bp (+1cyc)	<input type="checkbox"/>	✓			
CMW19371 Soni 1:4	500bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW22310 Soni 1:4	500bp (+1cyc)	<input type="checkbox"/>	✓			
CMW23050 Soni 1:4	500bp (+1cyc)	<input type="checkbox"/>	✓			
CMW25533 Soni 1:4	500bp (+1cyc)	<input type="checkbox"/>	✓			
CMW38850 Soni 1:4	500bp(+1cyc)	<input type="checkbox"/>	✓			
RJ7		<input type="checkbox"/>	✓			
RJ8		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
Modified: 5/15/2014 12:52:54 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

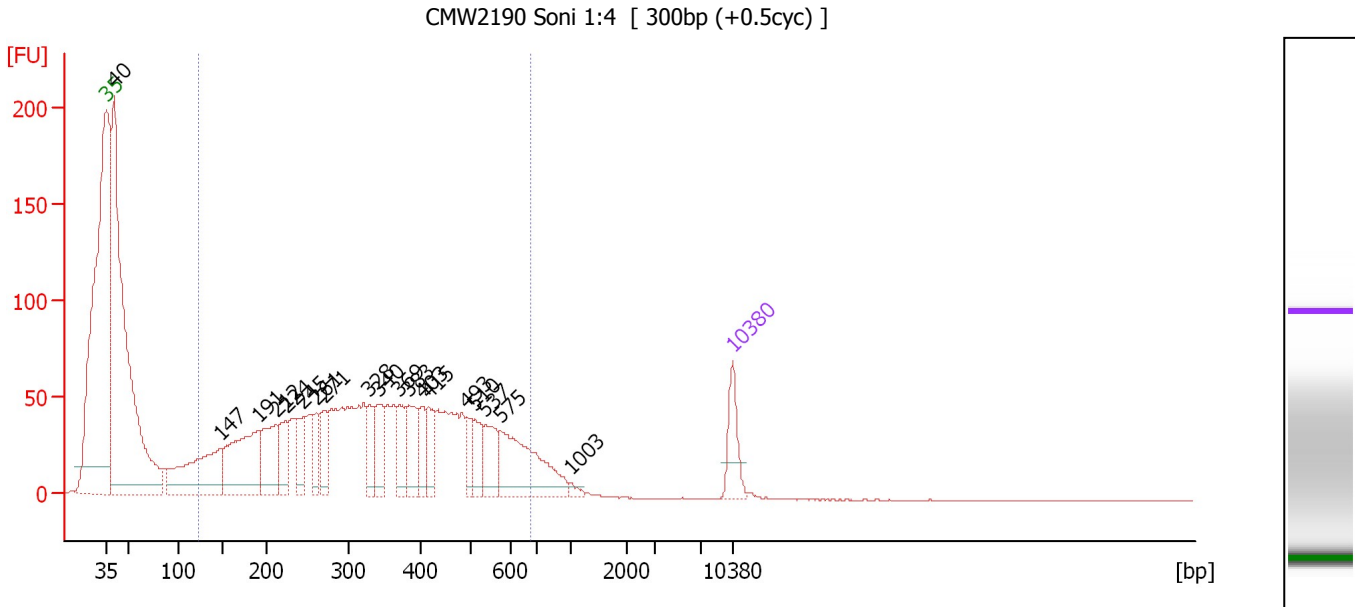
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

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Electropherogram Summary



Overall Results for sample 1 : CMW2190 Soni 1:4

Number of peaks found: 19 Corr. Area 1: 1,934.5
 Noise: 0.1

Peak table for sample 1 : CMW2190 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	1,894.38	70,925.8	
3	147	385.64	3,977.8	
4	191	373.48	2,962.9	
5	212	185.64	1,324.0	
6	224	105.91	716.7	
7	245	94.60	585.2	
8	261	83.02	482.2	
9	271	95.72	535.1	
10	328	77.85	359.6	
11	340	111.36	496.3	
12	369	92.41	379.3	
13	383	120.72	477.2	
14	403	70.01	263.3	
15	415	82.76	302.4	
16	493	53.80	165.2	
17	510	69.30	205.7	
18	537	96.96	273.7	
19	575	262.39	691.2	
20	1,003	11.86	17.9	
21	10,380	75.00	10.9	Upper Marker

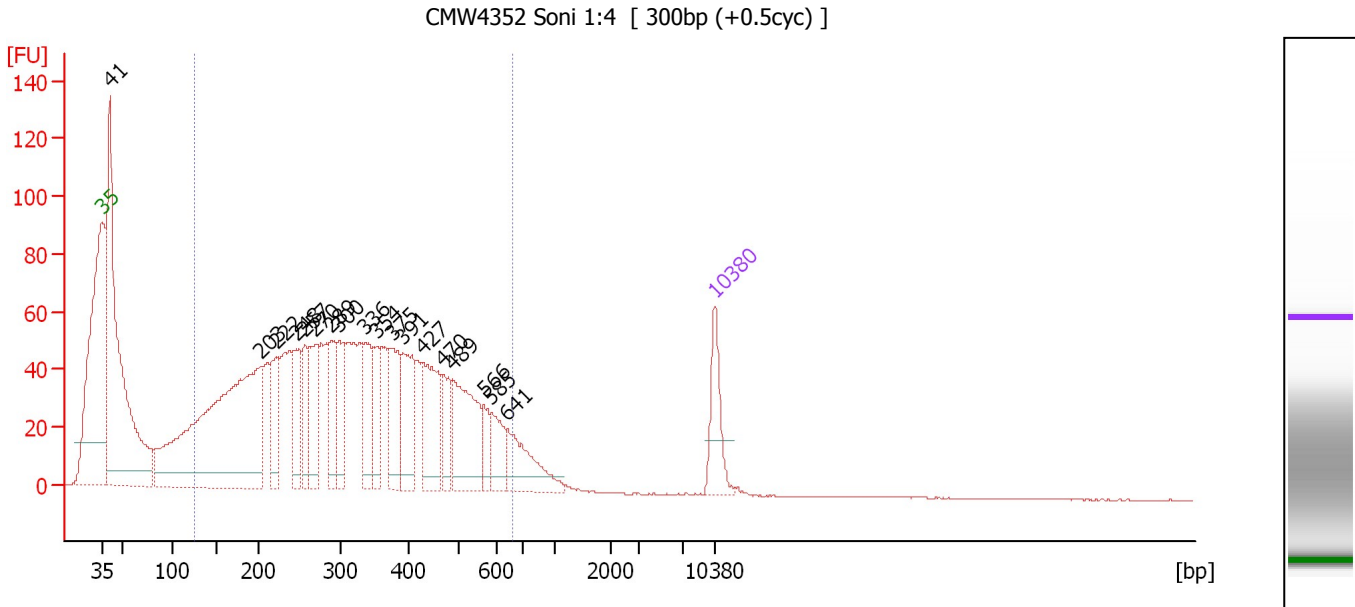
Region table for sample 1 : CMW2190 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
122	679	350	17,259.1	3,092.90	1,934.5	50	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW4352 Soni 1:4

Number of peaks found: 18 Corr. Area 1: 2,064.9
 Noise: 0.1

Peak table for sample 2 : CMW4352 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	1,086.25	40,176.4	
3	203	1,006.19	7,497.2	
4	222	139.31	949.7	
5	248	116.83	714.7	
6	257	100.90	593.9	
7	270	144.28	808.2	
8	289	119.48	625.6	
9	300	101.68	513.9	
10	336	125.36	564.6	
11	354	87.08	372.7	
12	375	133.57	539.2	
13	391	145.62	564.8	
14	427	170.03	603.0	
15	470	71.67	230.9	
16	489	202.50	627.6	
17	566	43.21	115.6	
18	585	64.06	165.9	
19	641	112.30	265.6	
20	10,380	75.00	10.9	Upper Marker

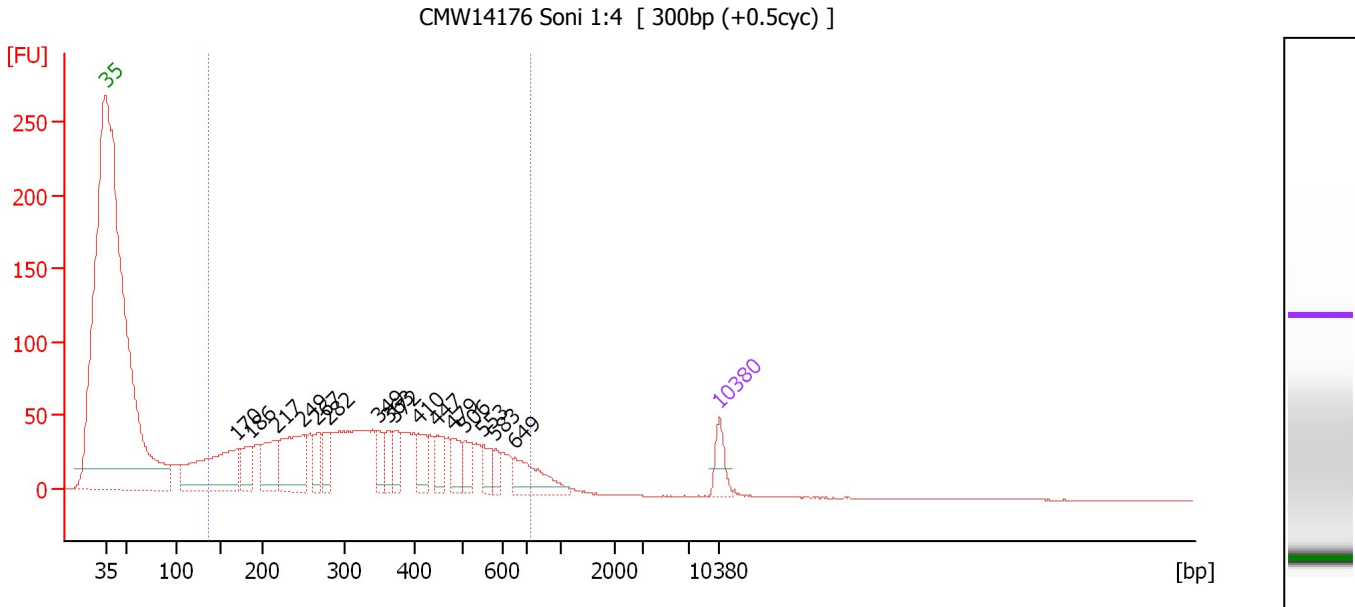
Region table for sample 2 : CMW4352 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
124	660	332	19,915.7	3,436.62	2,064.9	75	37.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW14176 Soni 1:4

Number of peaks found: 16 Corr. Area 1: 1,742.0
 Noise: 0.1

Peak table for sample 3 : CMW14176 Soni 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	170	637.12	5,685.8	
3	186	163.68	1,331.3	
4	217	255.87	1,785.4	
5	249	379.03	2,306.5	
6	267	114.50	650.9	
7	282	126.76	680.7	
8	349	99.05	429.9	
9	363	83.15	347.2	
10	372	106.38	433.3	
11	410	123.78	457.3	
12	447	116.21	393.5	
13	479	97.02	306.7	
14	506	95.23	285.3	
15	553	80.18	219.7	
16	583	47.90	124.6	
17	649	182.76	426.5	
18	10,380	75.00	10.9	Upper Marker

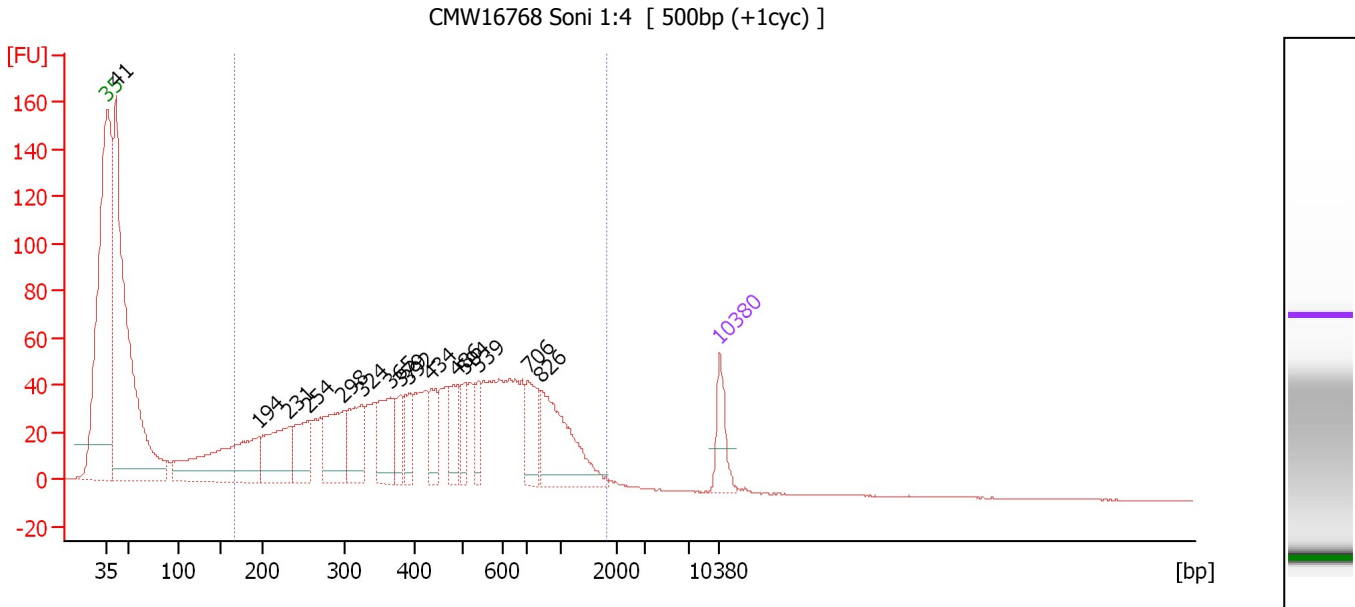
Region table for sample 3 : CMW14176 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
136	733	356	19,375.5	3,566.10	1,742.0	90	38.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW16768 Soni 1:4

Number of peaks found: 15 Corr. Area 1: 1,719.0
 Noise: 0.1

Peak table for sample 4 : CMW16768 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	1,779.97	65,240.7	
3	194	475.07	3,703.4	
4	231	256.99	1,682.9	
5	254	168.64	1,005.3	
6	298	228.44	1,162.1	
7	324	182.84	854.5	
8	365	174.17	722.2	
9	379	80.00	319.7	
10	392	79.64	307.7	
11	434	91.08	318.1	
12	486	103.12	321.8	
13	504	70.80	212.9	
14	539	68.22	191.7	
15	706	124.26	266.7	
16	826	272.14	499.5	
17	10,380	75.00	10.9	Upper Marker

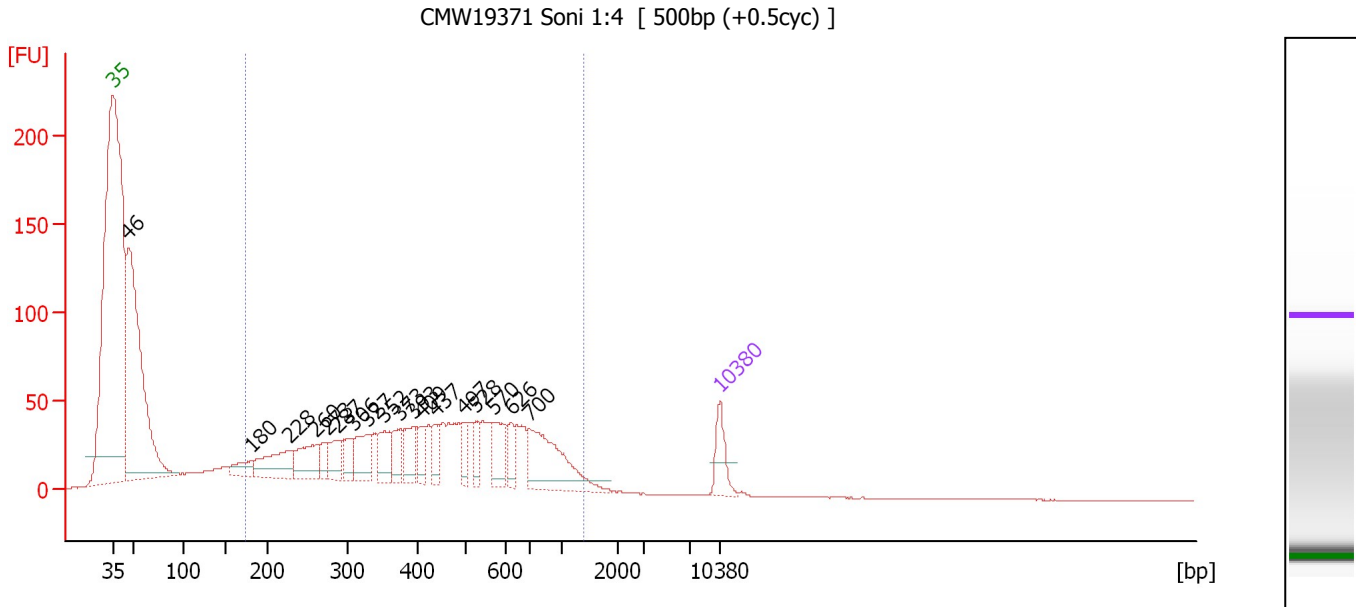
Region table for sample 4 : CMW16768 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
166	1,825	511	13,285.6	3,181.55	1,719.0	68	54.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
 Modified: 5/15/2014 12:52:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW19371 Soni 1:4

Number of peaks found: 18 Corr. Area 1: 1,495.8
 Noise: 0.1

Peak table for sample 5 : CMW19371 Soni 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	1,570.11	51,810.7	
3	180	74.18	624.2	
4	228	186.95	1,241.0	
5	260	164.11	954.6	
6	273	53.38	296.2	
7	287	95.23	501.9	
8	306	73.93	365.9	
9	327	135.52	628.0	
10	352	114.89	495.1	
11	373	84.03	341.1	
12	393	102.37	394.5	
13	409	58.55	216.8	
14	437	64.16	222.5	
15	497	60.72	185.1	
16	528	59.48	170.8	
17	570	119.75	318.3	
18	626	53.03	128.3	
19	700	301.43	652.9	
20	10,380	75.00	10.9	Upper Marker

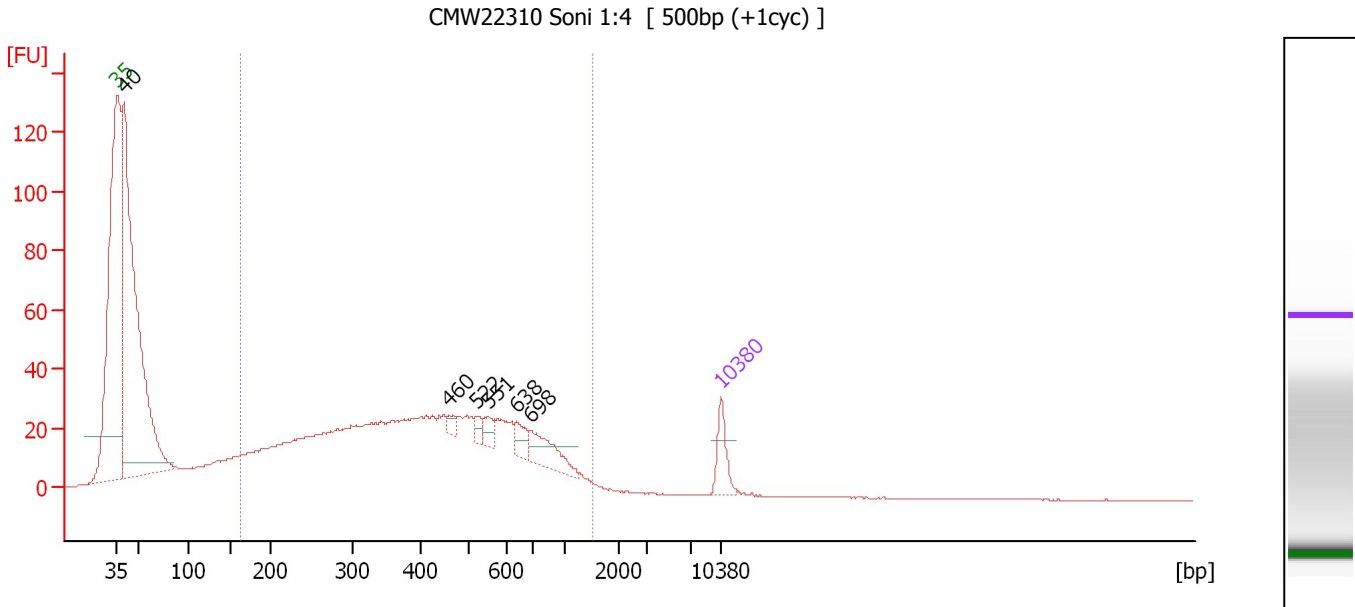
Region table for sample 5 : CMW19371 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
174	1,374	474	12,058.2	2,845.90	1,495.8	64	46.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
 Modified: 5/15/2014 12:52:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW22310 Soni 1:4

Number of peaks found: 6 Corr. Area 1: 1,010.7
 Noise: 0.1

Peak table for sample 6 : CMW22310 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	2,567.81	97,472.2	
3	460	23.78	78.3	
4	522	26.86	77.9	
5	551	43.98	120.9	
6	638	56.74	134.8	
7	698	128.15	278.1	
8	10,380	75.00	10.9	Upper Marker

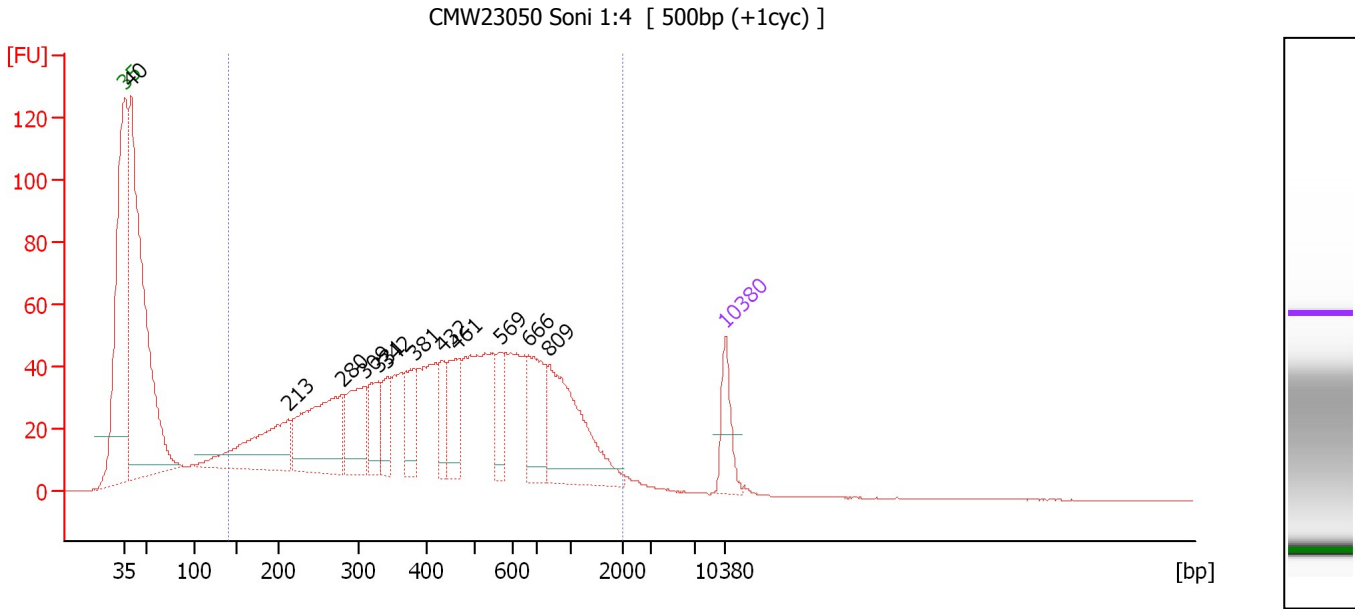
Region table for sample 6 : CMW22310 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
163	1,502	453	15,096.6	3,363.80	1,010.7	59	48.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
 Modified: 5/15/2014 12:52:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW23050 Soni 1:4

Number of peaks found: 12 Corr. Area 1: 1,825.0
 Noise: 0.1

Peak table for sample 7 : CMW23050 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	1,524.63	58,391.6	
3	213	331.04	2,353.5	
4	280	381.20	2,066.0	
5	309	195.59	959.8	
6	331	113.56	520.6	
7	342	91.35	404.5	
8	381	117.79	468.3	
9	432	84.26	295.3	
10	461	131.39	431.4	
11	569	79.97	213.1	
12	666	171.44	390.1	
13	809	325.56	609.7	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : CMW23050 Soni 1:4

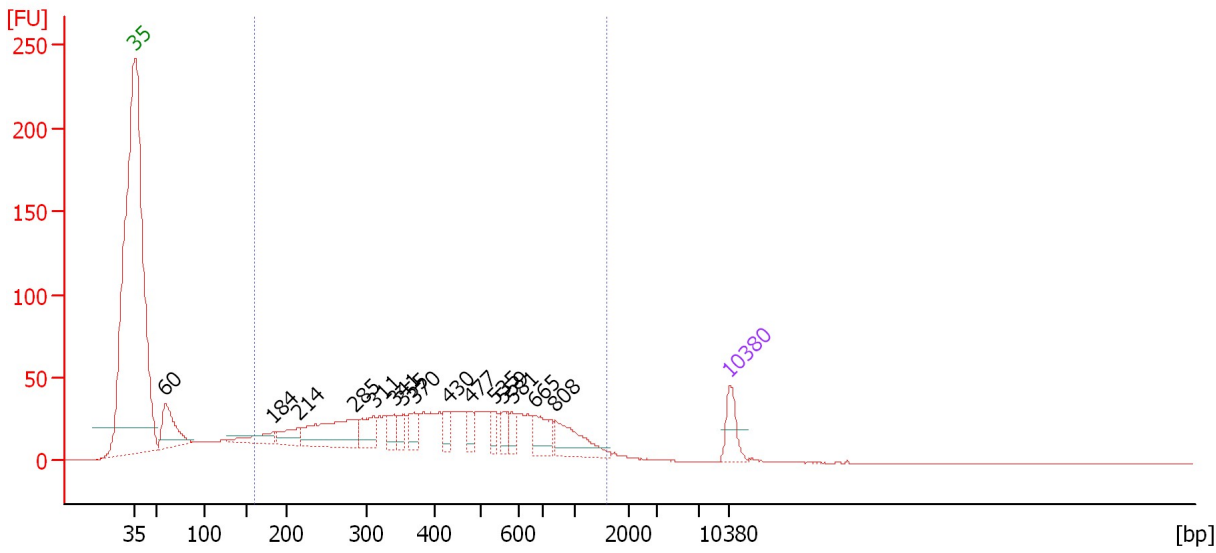
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
140	1,979	515	16,087.4	3,626.32	1,825.0	72	60.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
 Modified: 5/15/2014 12:52:54 PM

Electropherogram Summary Continued ...

CMW25533 Soni 1:4 [500bp (+1cyc)]



Overall Results for sample 8 : CMW25533 Soni 1:4

Number of peaks found: 15 Corr. Area 1: 1,223.8
 Noise: 0.1

Peak table for sample 8 : CMW25533 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	60	256.38	6,489.4	
3	184	89.72	738.8	
4	214	84.92	600.0	
5	285	284.98	1,515.6	
6	311	103.15	501.9	
7	341	60.42	268.2	
8	355	50.36	214.7	
9	370	61.97	253.5	
10	430	48.34	170.4	
11	477	44.72	141.9	
12	535	42.17	119.4	
13	559	53.59	145.3	
14	581	42.55	111.0	
15	665	105.24	240.0	
16	808	148.09	277.7	
17	10,380	75.00	10.9	Upper Marker

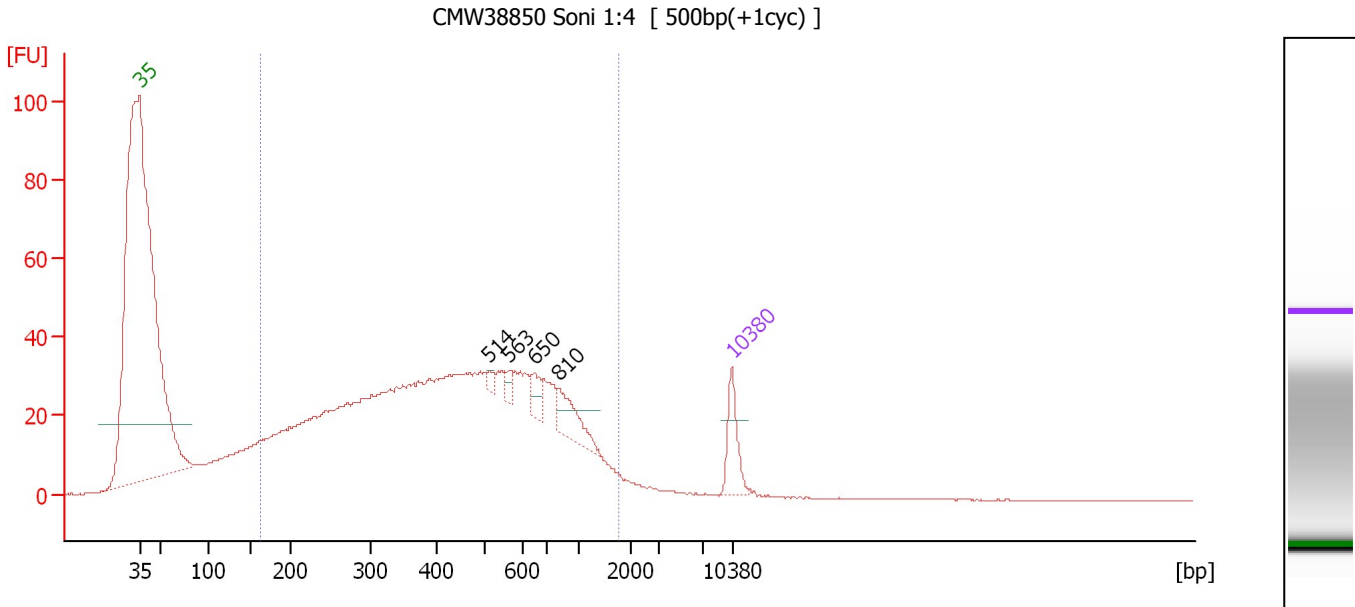
Region table for sample 8 : CMW25533 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
162	1,574	467	11,482.2	2,550.97	1,223.8	78	53.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW38850 Soni 1:4

Number of peaks found: 4 Corr. Area 1: 1,237.6
 Noise: 0.1

Peak table for sample 9 : CMW38850 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	514	17.24	50.8	
3	563	19.35	52.1	
4	650	41.15	95.9	
5	810	88.59	165.6	
6	10,380	75.00	10.9	Upper Marker

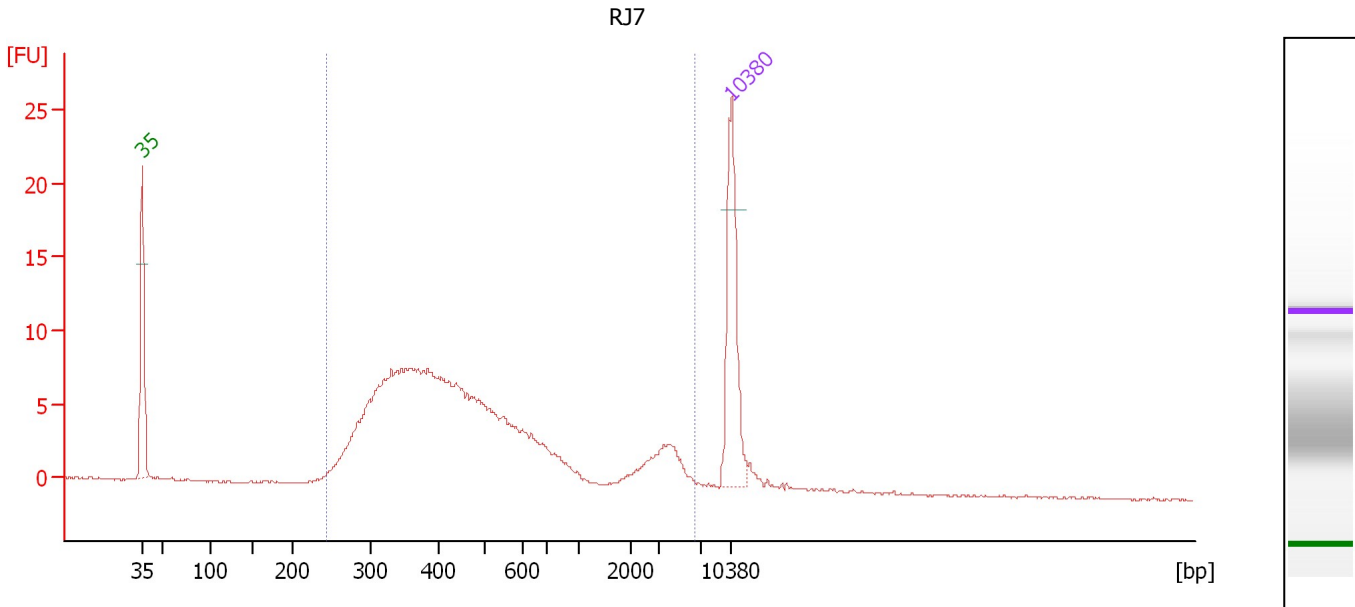
Region table for sample 9 : CMW38850 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
164	1,754	492	16,818.2	3,872.91	1,237.6	88	55.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : RJ7

Number of peaks found: 0 Corr. Area 1: 189.0
 Noise: 0.1

Peak table for sample 10 : RJ7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

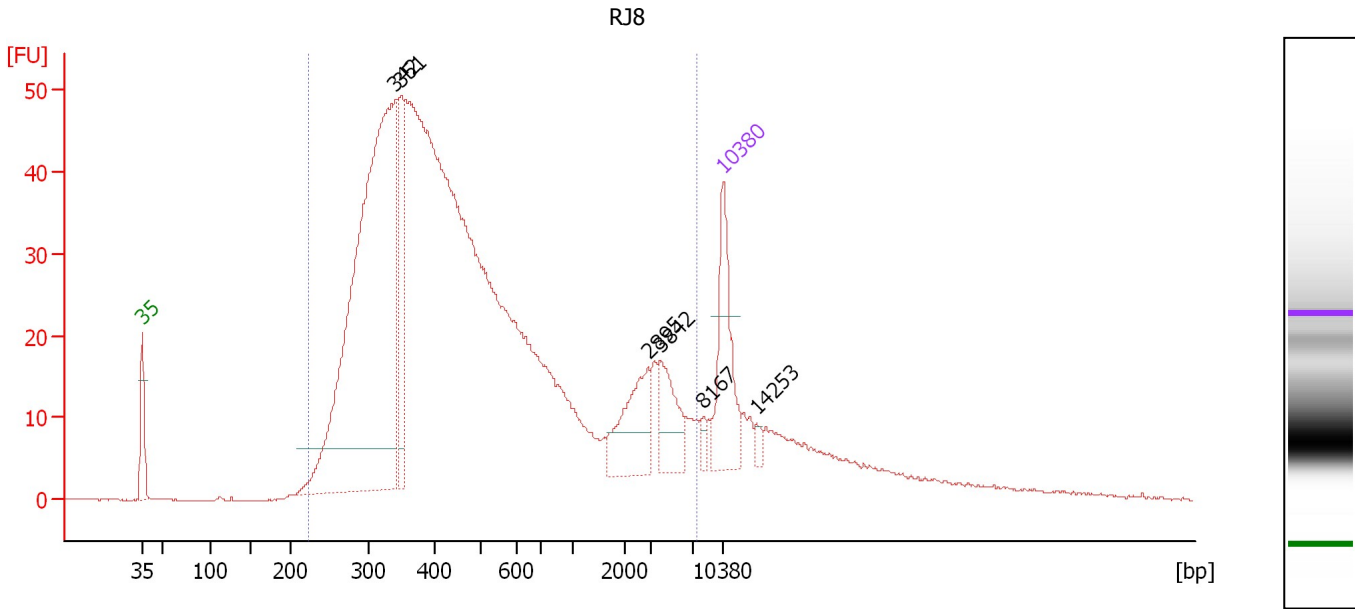
Region table for sample 10 : RJ7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
244	6,345	748	2,488.3	680.15	189.0	96	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : RJ8

Number of peaks found: 6 Corr. Area 1: 1,218.3
 Noise: 0.1

Peak table for sample 11 : RJ8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	342	750.35	3,325.4	
3	351	107.36	463.8	
4	2,895	65.07	34.1	
5	3,842	47.83	18.9	
6	8,167	7.02	1.3	
7	10,380	75.00	10.9	Upper Marker
8	14,253	0.00	0.0	

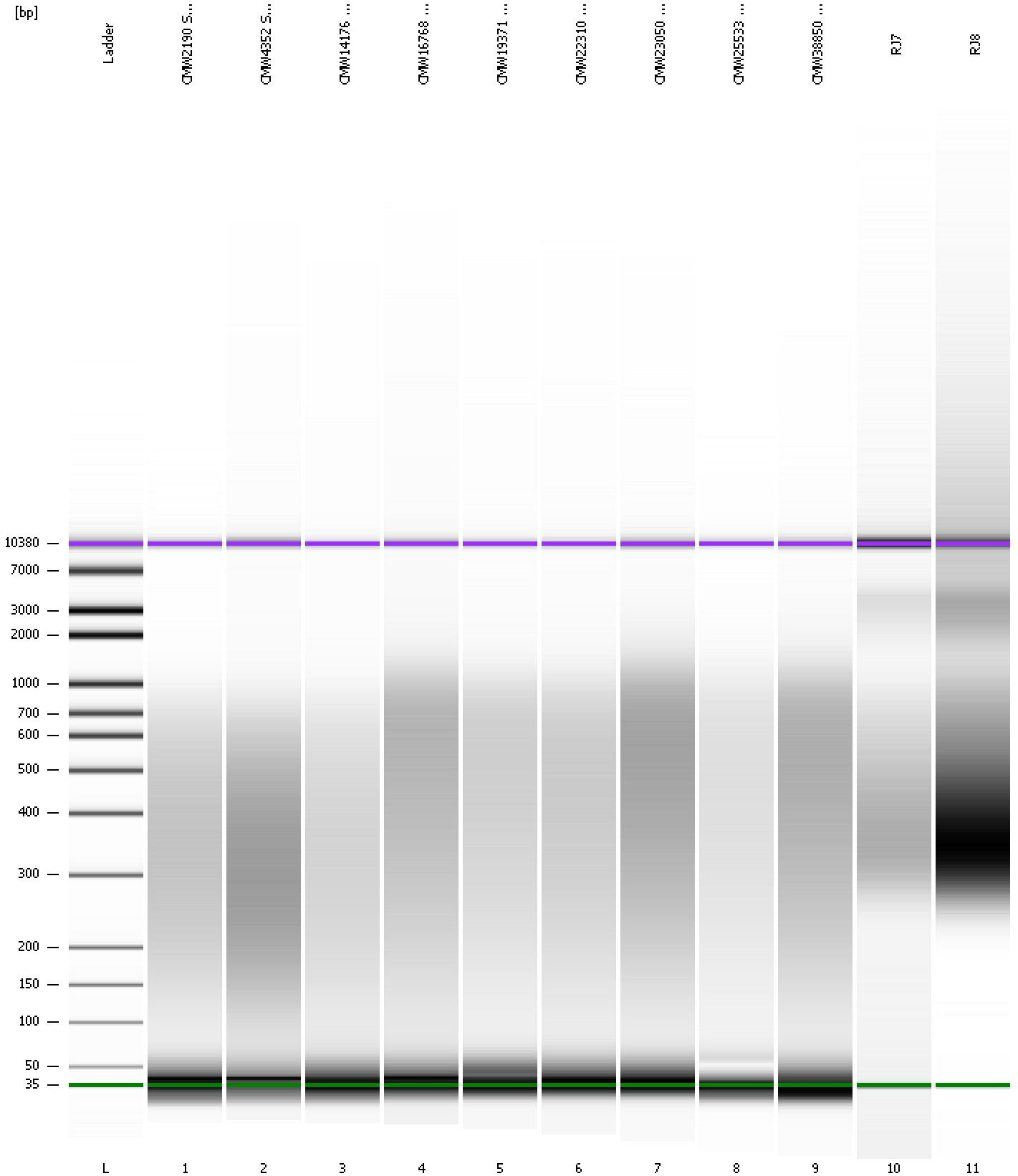
Region table for sample 11 : RJ8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
223	7,297	865	9,219.6	2,526.79	1,218.3	90	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
Modified: 5/15/2014 12:52:54 PM

Gel Image

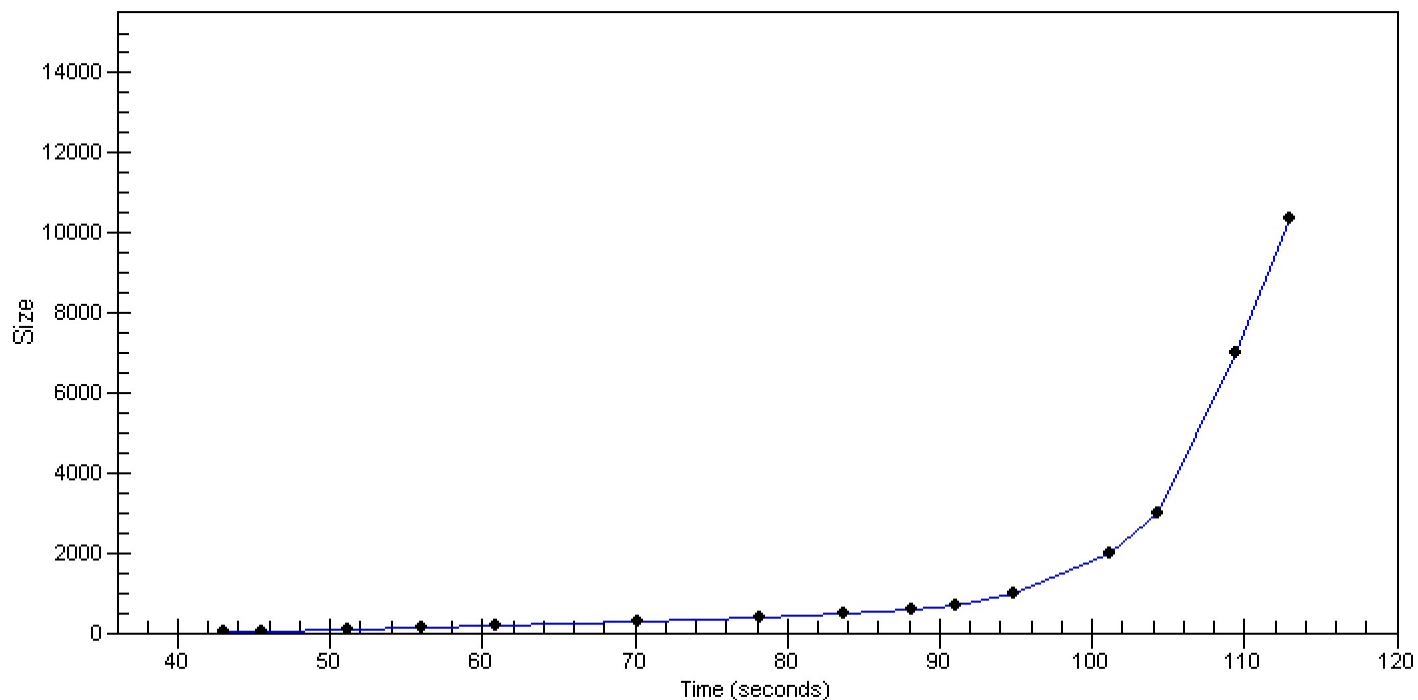


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
Modified: 5/15/2014 12:52:54 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad

Created: 5/15/2014 11:56:07 AM
 Modified: 5/15/2014 12:52:54 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		5/15/2014 12:36:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-05-15\2014-05-15_003.xad)		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/15/2014 11:56:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1