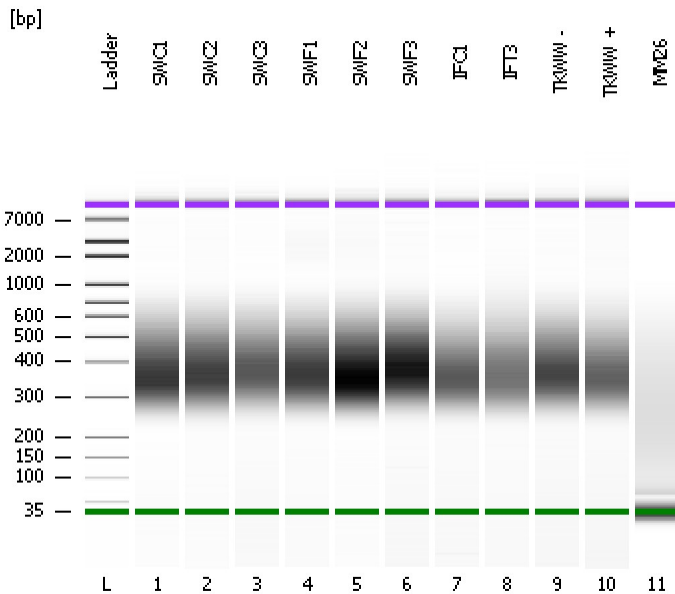


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
Modified: 10/3/2014 11:13:23 AM

Electrophoresis File Run Summary



Instrument Information:

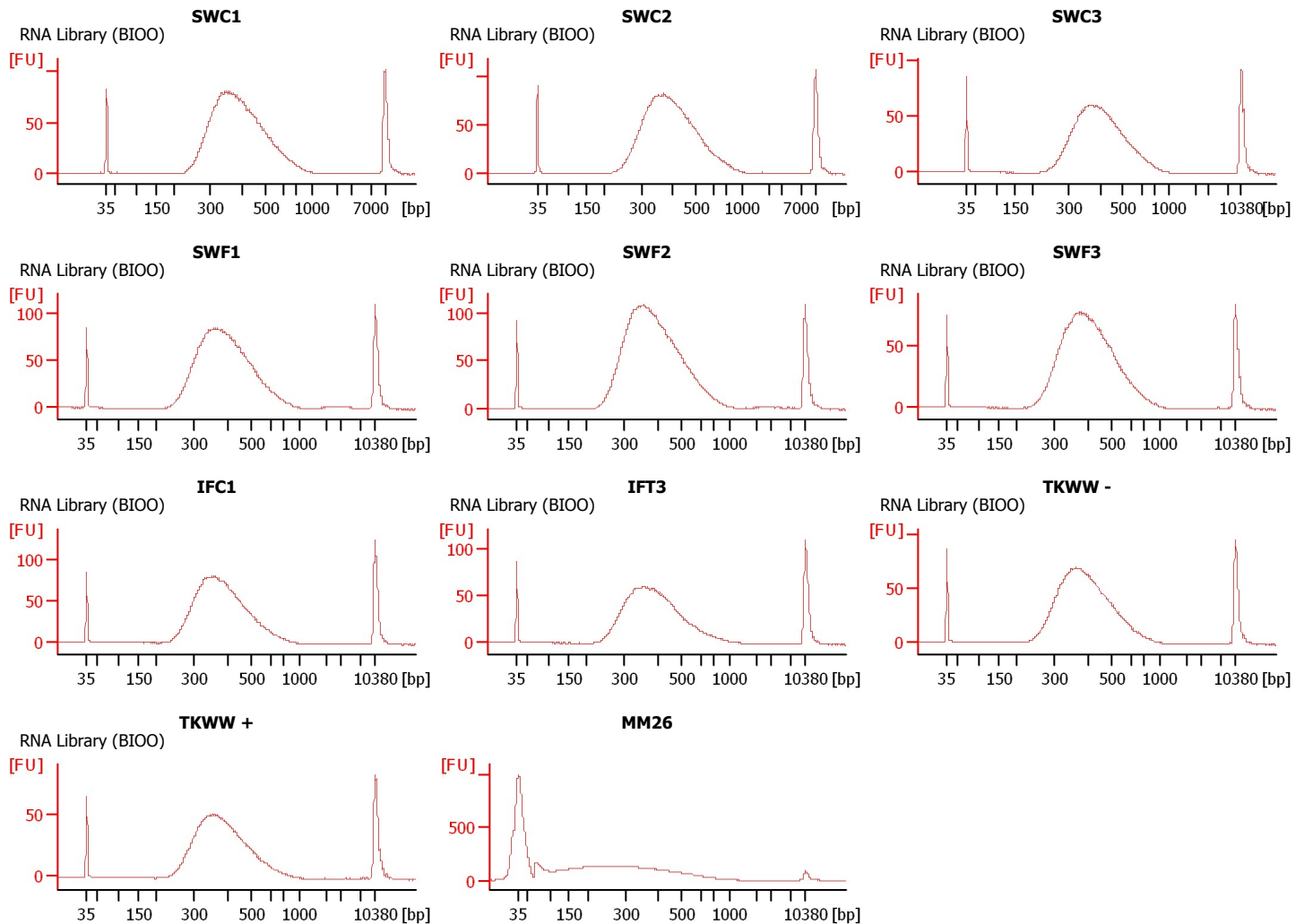
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SWC1	RNA Library (BIOO)	<input type="checkbox"/>	✓			
SWC2	RNA Library (BIOO)	<input type="checkbox"/>	✓			
SWC3	RNA Library (BIOO)	<input type="checkbox"/>	✓			
SWF1	RNA Library (BIOO)	<input type="checkbox"/>	✓			
SWF2	RNA Library (BIOO)	<input type="checkbox"/>	✓			
SWF3	RNA Library (BIOO)	<input type="checkbox"/>	✓			
IFC1	RNA Library (BIOO)	<input type="checkbox"/>	✓			
IFT3	RNA Library (BIOO)	<input type="checkbox"/>	✓			
TKWW -	RNA Library (BIOO)	<input type="checkbox"/>	✓			
TKWW +	RNA Library (BIOO)	<input type="checkbox"/>	✓			
MM26		<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\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 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

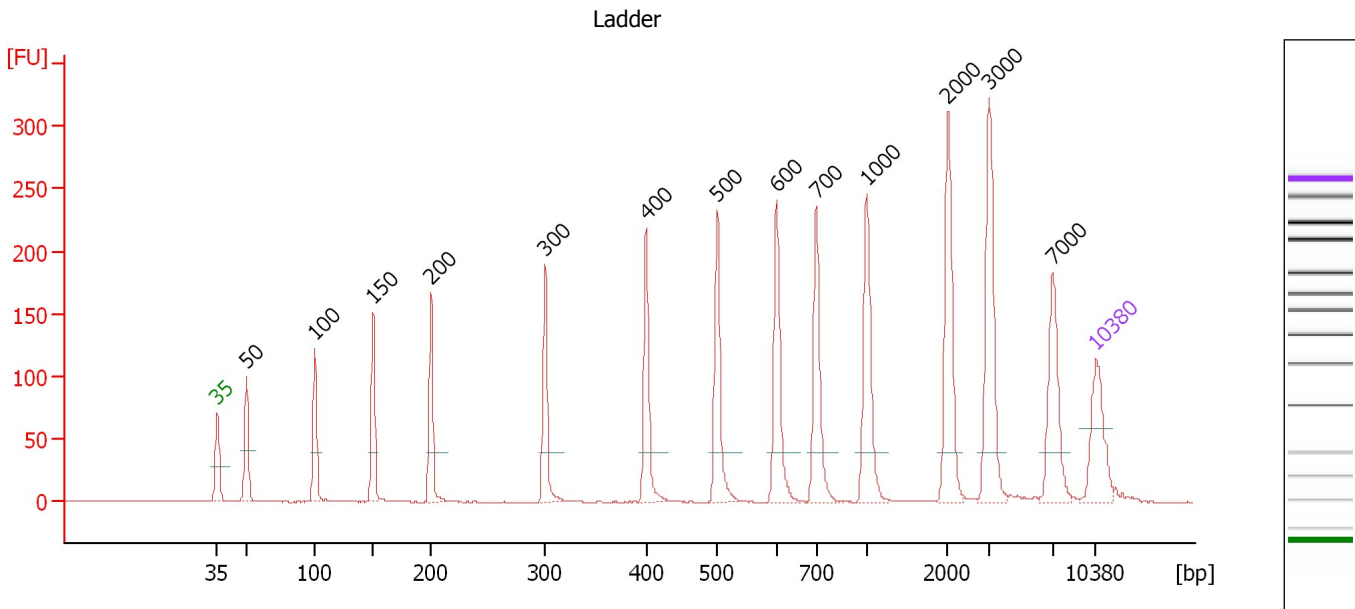
Ladder

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\2014-10-03\2014-10-03_001.xad

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

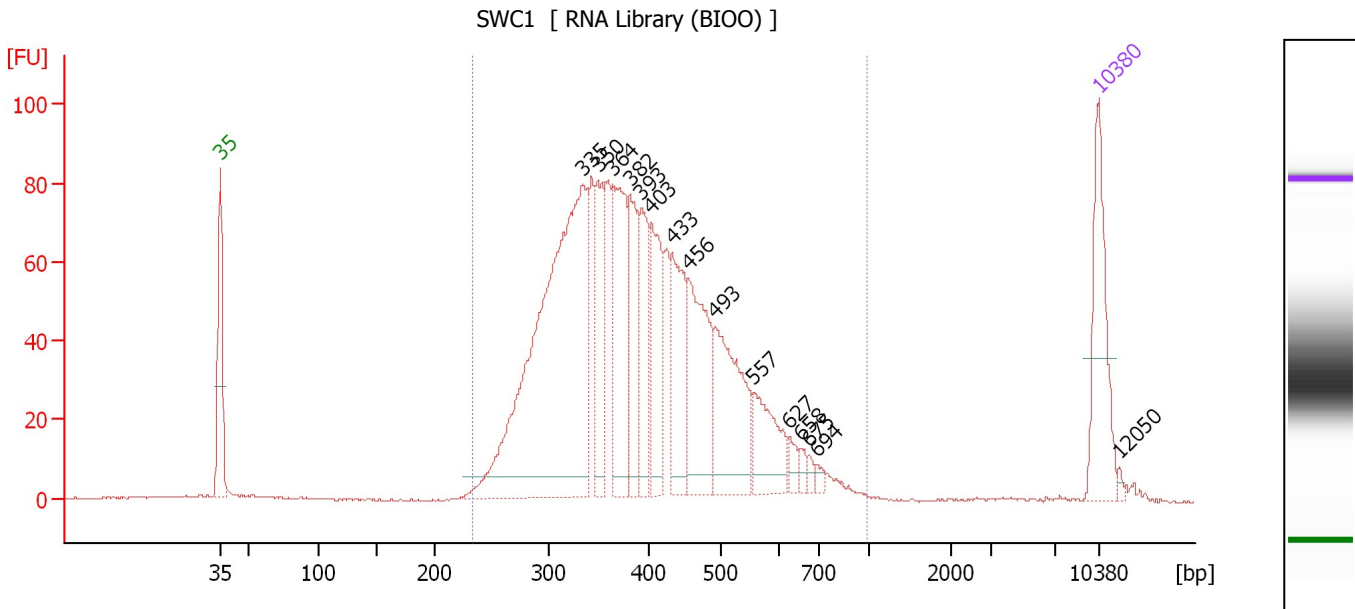
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : SWC1

Number of peaks found: 15 Corr. Area 1: 1,732.4
 Noise: 0.2

Peak table for sample 1 : SWC1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	335	555.14	2,513.7	
3	350	90.24	390.7	
4	364	142.09	591.0	
5	382	87.28	346.4	
6	393	77.74	299.8	
7	403	96.24	361.5	
8	433	101.93	356.5	
9	456	127.73	424.1	
10	493	126.84	389.9	
11	557	61.85	168.2	
12	627	10.86	26.3	
13	658	7.71	17.8	
14	675	5.11	11.5	
15	694	5.70	12.4	
16	10,380	75.00	10.9	Upper Marker
17	12,050	0.00	0.0	

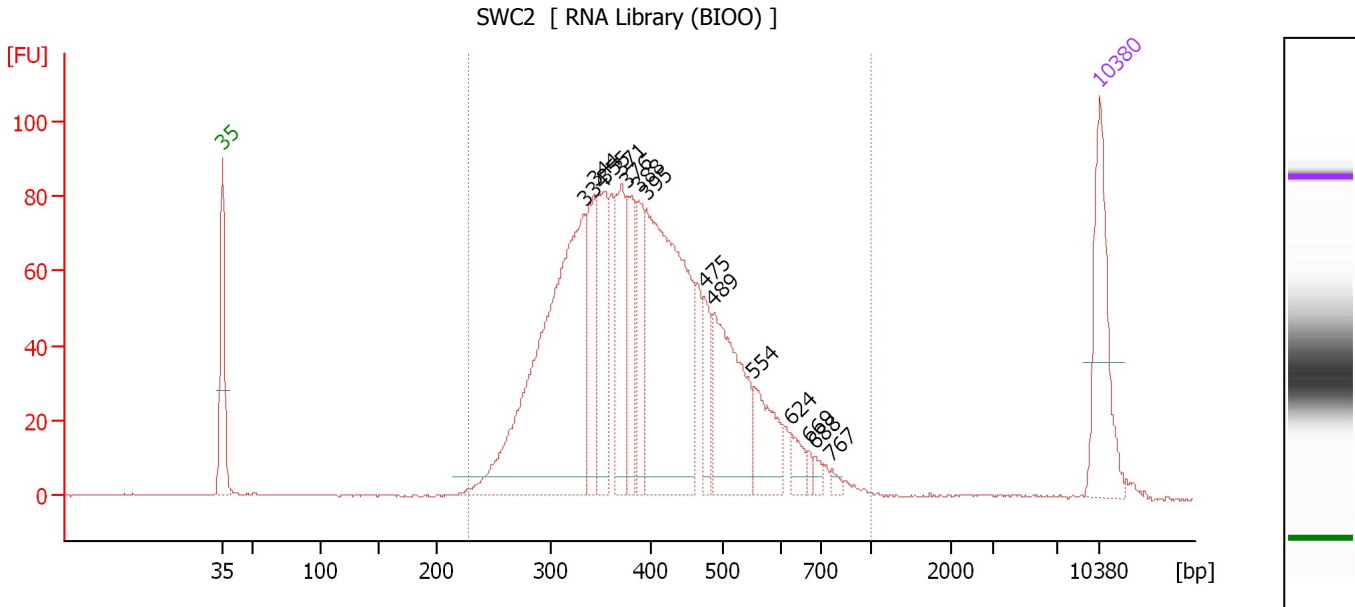
Region table for sample 1 : SWC1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
234	405	982	1,732.4	97	25.4	1,770.70	7,160.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SWC2

Number of peaks found: 14 Corr. Area 1: 1,766.7
 Noise: 0.2

Peak table for sample 2 : SWC2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	334	431.82	1,959.0	
3	344	83.72	369.3	
4	355	97.13	415.0	
5	371	85.87	350.6	
6	376	70.70	284.6	
7	388	63.26	247.0	
8	395	308.99	1,183.8	
9	475	35.79	114.1	
10	489	137.60	426.7	
11	554	54.47	149.0	
12	624	17.57	42.7	
13	669	5.83	13.2	
14	688	7.16	15.8	
15	767	5.00	9.9	
16	10,380	75.00	10.9	Upper Marker

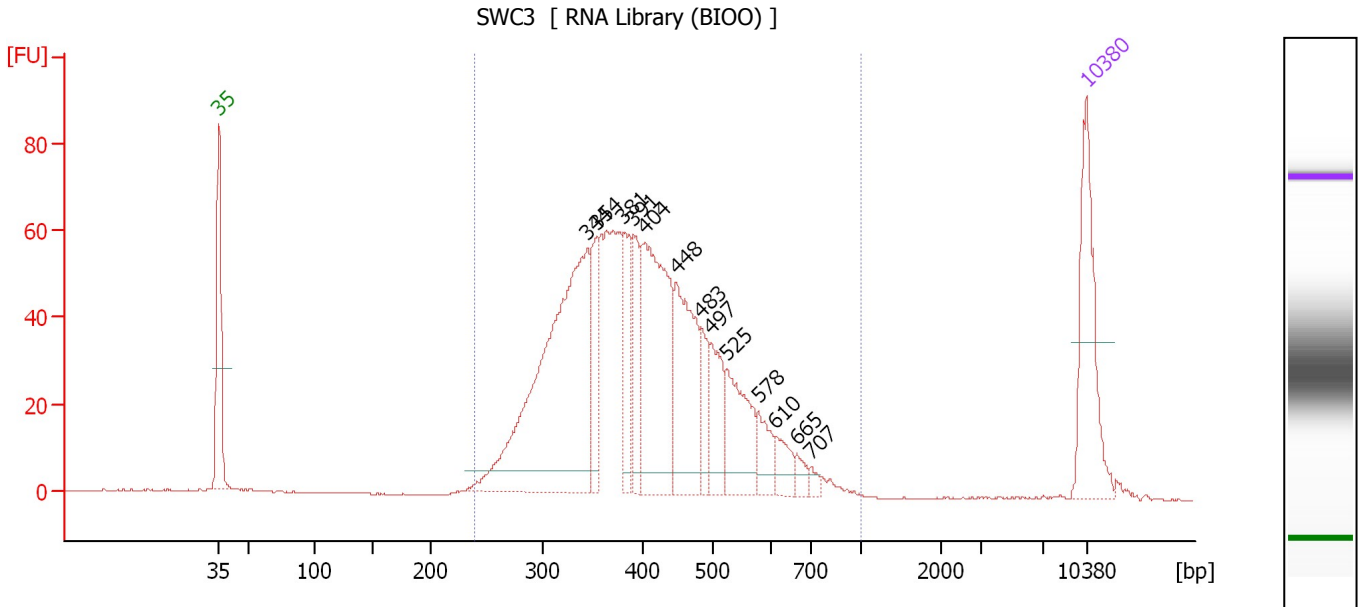
Region table for sample 2 : SWC2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
228	409	1,000	1,766.7	98	25.5	1,581.39	6,332.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SWC3

Number of peaks found: 13 Corr. Area 1: 1,263.8
 Noise: 0.2

Peak table for sample 3 : SWC3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	344	369.31	1,624.8	
3	354	50.81	217.4	
4	381	52.59	208.9	
5	391	50.65	196.3	
6	404	187.06	701.6	
7	448	118.39	400.6	
8	483	31.05	97.3	
9	497	50.90	155.2	
10	525	70.67	204.1	
11	578	25.06	65.7	
12	610	19.71	48.9	
13	665	9.13	20.8	
14	707	5.51	11.8	
15	10,380	75.00	10.9	Upper Marker

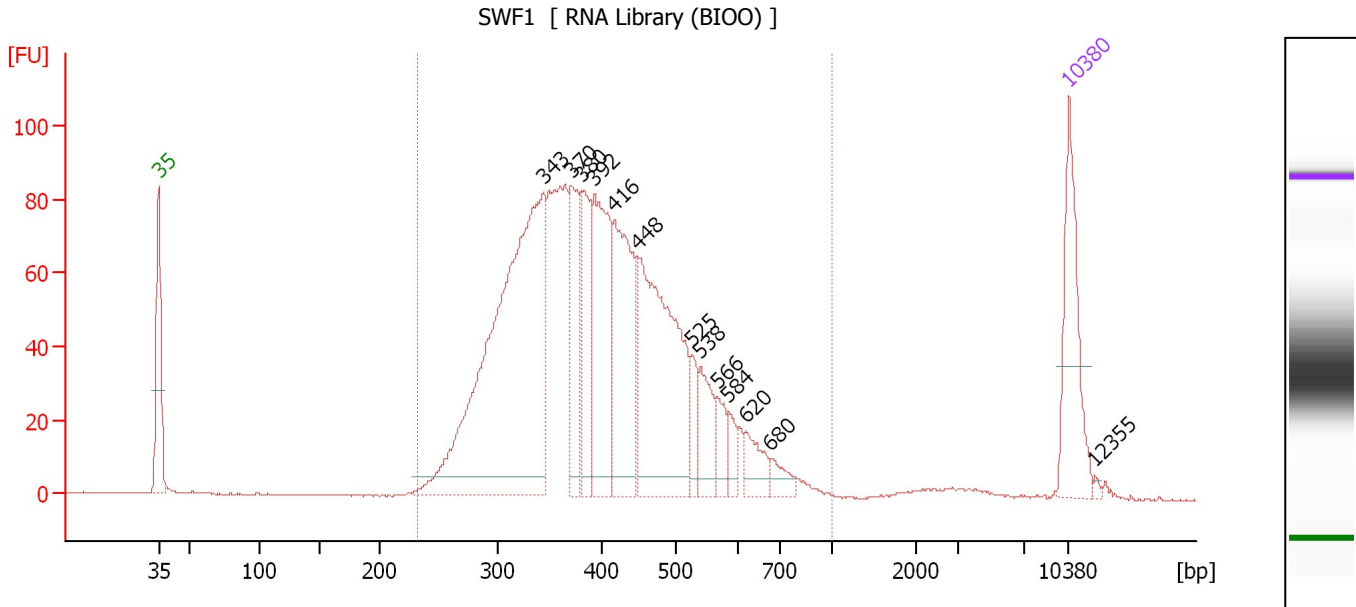
Region table for sample 3 : SWC3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
240	414	1,000	1,263.8	98	24.4	1,270.50	4,996.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : SWF1

Number of peaks found: 13 Corr. Area 1: 1,784.1
 Noise: 0.1

Peak table for sample 4 : SWF1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	537.98	2,375.8	
3	370	96.22	393.7	
4	380	87.83	350.1	
5	392	154.75	598.0	
6	416	157.07	572.5	
7	448	249.82	845.0	
8	525	23.14	66.8	
9	538	43.87	123.5	
10	566	22.77	61.0	
11	584	15.93	41.4	
12	620	26.34	64.4	
13	680	15.49	34.5	
14	10,380	75.00	10.9	Upper Marker
15	12,355	0.00	0.0	

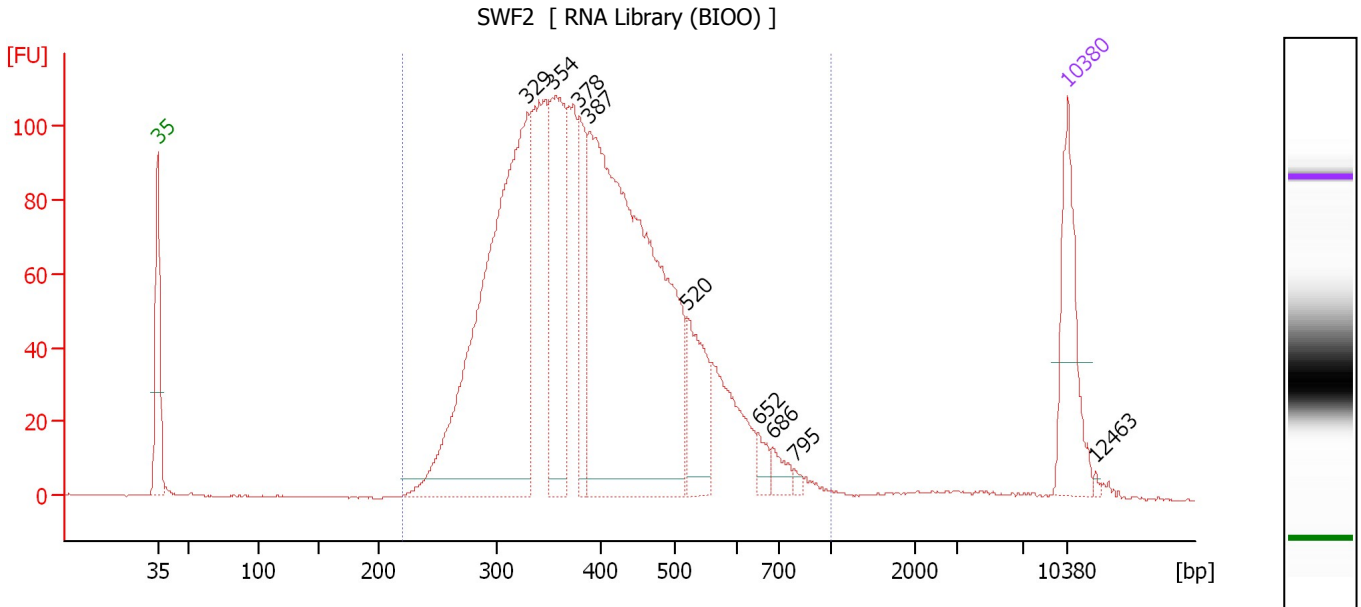
Region table for sample 4 : SWF1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
231	408	1,000	1,784.1	98	24.7	1,703.73	6,802.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : SWF2

Number of peaks found: 9 Corr. Area 1: 2,302.0
 Noise: 0.2

Peak table for sample 5 : SWF2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	329	582.60	2,684.0	
3	354	192.02	822.7	
4	378	79.66	318.9	
5	387	663.55	2,596.5	
6	520	78.24	228.2	
7	652	13.45	31.3	
8	686	15.60	34.5	
9	795	4.12	7.9	
10	10,380	75.00	10.9	Upper Marker
11	12,463	0.00	0.0	

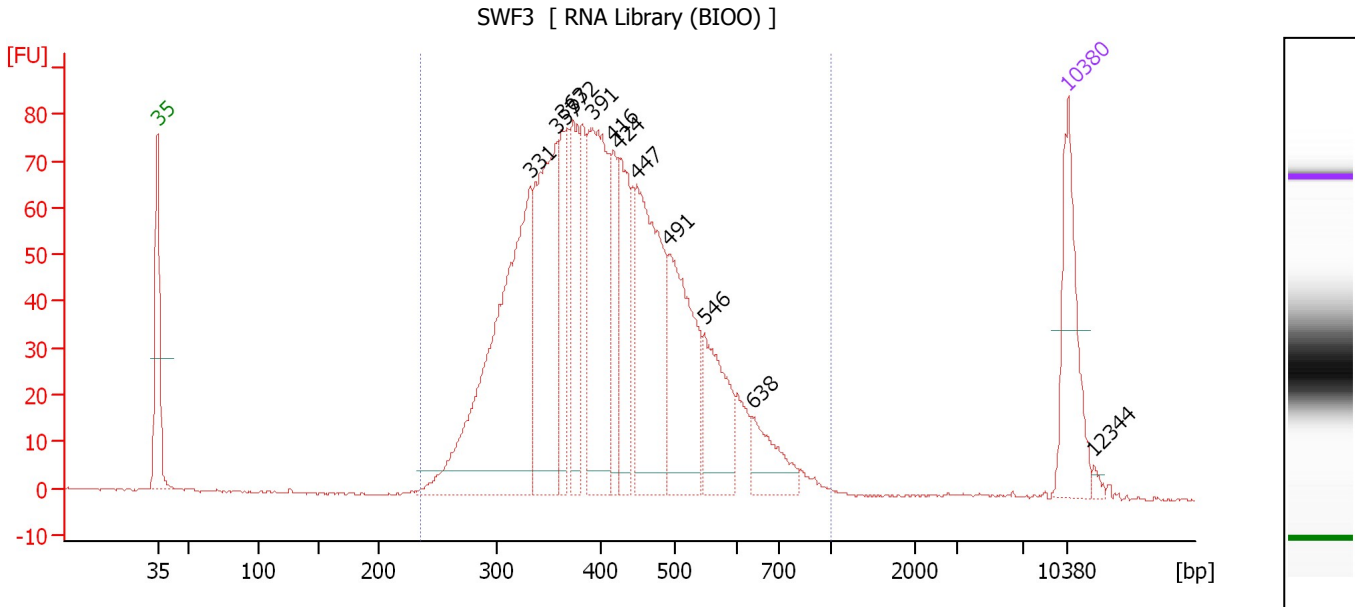
Region table for sample 5 : SWF2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
220	404	1,000	2,302.0	98	25.7	2,040.91	8,281.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : SWF3

Number of peaks found: 12 Corr. Area 1: 1,617.1
 Noise: 0.2

Peak table for sample 6 : SWF3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	331	376.27	1,719.9	
3	357	213.24	905.2	
4	363	69.94	291.9	
5	372	90.95	370.1	
6	391	199.01	770.8	
7	416	59.72	217.7	
8	424	100.14	357.6	
9	447	199.17	675.2	
10	491	156.06	481.2	
11	546	88.50	245.5	
12	638	44.85	106.5	
13	10,380	75.00	10.9	Upper Marker
14	12,344	0.00	0.0	

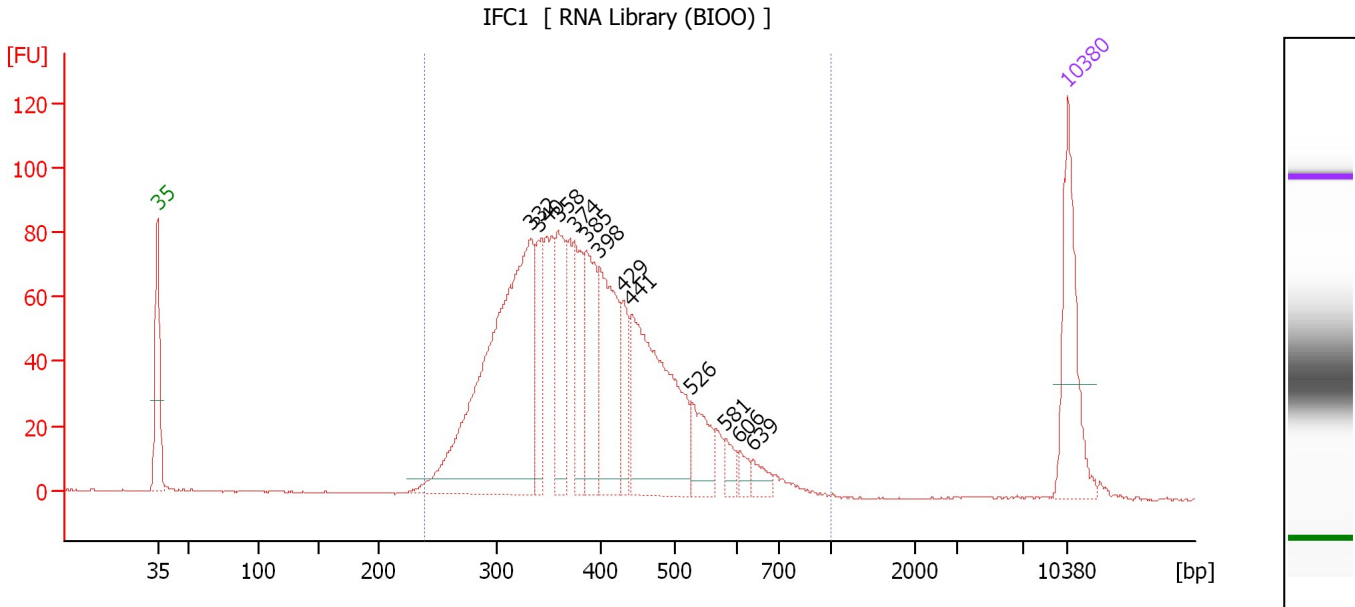
Region table for sample 6 : SWF3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
235	421	1,000	1,617.1	99	24.6	1,789.34	6,926.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

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 Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : IFC1

Number of peaks found: 12 Corr. Area 1: 1,597.8
 Noise: 0.2

Peak table for sample 7 : IFC1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	415.34	1,894.9	
3	340	56.68	252.7	
4	358	81.12	343.0	
5	374	66.40	269.0	
6	385	87.89	345.7	
7	398	120.10	457.2	
8	429	41.46	146.5	
9	441	205.55	707.0	
10	526	41.55	119.6	
11	581	14.70	38.3	
12	606	9.22	23.1	
13	639	13.85	32.8	
14	10,380	75.00	10.9	Upper Marker

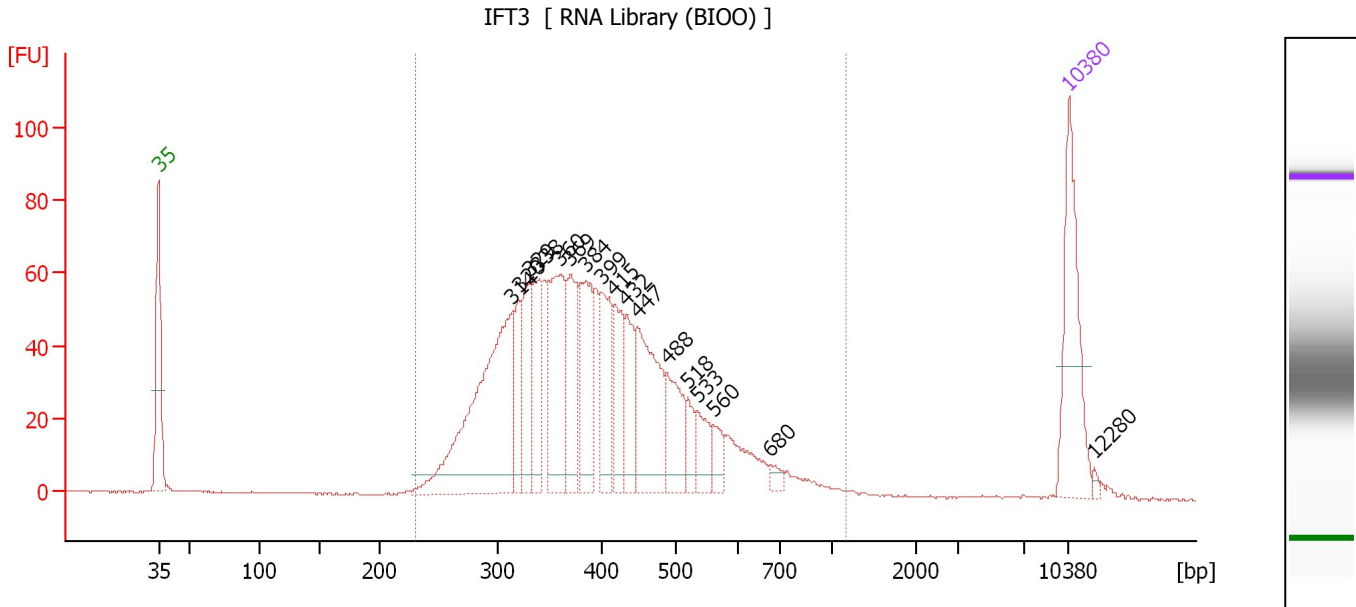
Region table for sample 7 : IFC1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
239	397	1,000	1,597.8	99	23.9	1,350.97	5,520.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : IFT3

Number of peaks found: 17 Corr. Area 1: 1,306.0
 Noise: 0.2

Peak table for sample 8 : IFT3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	314	236.21	1,141.1	
3	320	42.45	201.1	
4	329	65.86	303.0	
5	338	52.71	236.1	
6	360	105.38	444.0	
7	369	69.04	283.4	
8	384	71.65	282.9	
9	399	64.88	246.2	
10	415	49.45	180.6	
11	432	45.56	159.7	
12	447	97.82	331.9	
13	488	48.91	152.0	
14	518	19.13	55.9	
15	533	23.44	66.7	
16	560	16.08	43.5	
17	680	6.85	15.3	
18	10,380	75.00	10.9	Upper Marker
19	12,280	0.00	0.0	

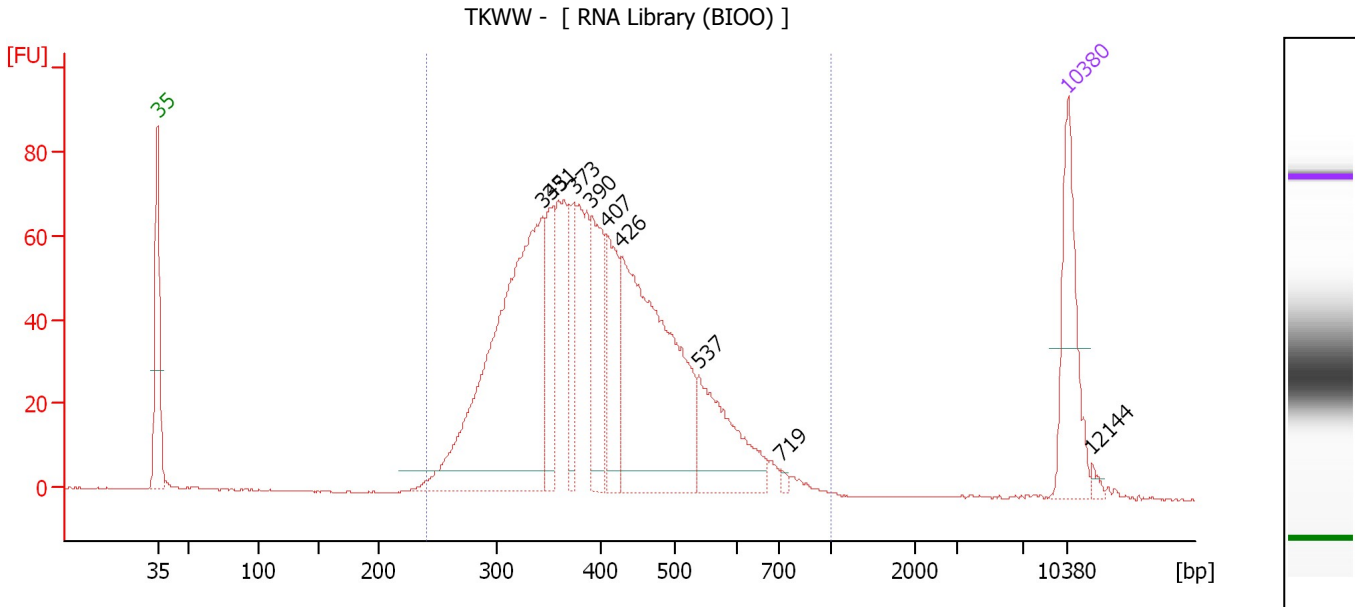
Region table for sample 8 : IFT3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
230	408	1,163	1,306.0	98	28.0	1,194.84	4,835.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : TKWW -

Number of peaks found: 9 Corr. Area 1: 1,398.5
 Noise: 0.2

Peak table for sample 9 : TKWW -

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	437.33	1,930.8	
3	351	66.35	286.4	
4	373	55.64	225.8	
5	390	99.13	384.9	
6	407	78.68	292.6	
7	426	314.90	1,119.0	
8	537	105.53	297.9	
9	719	3.19	6.7	
10	10,380	75.00	10.9	Upper Marker
11	12,144	0.00	0.0	

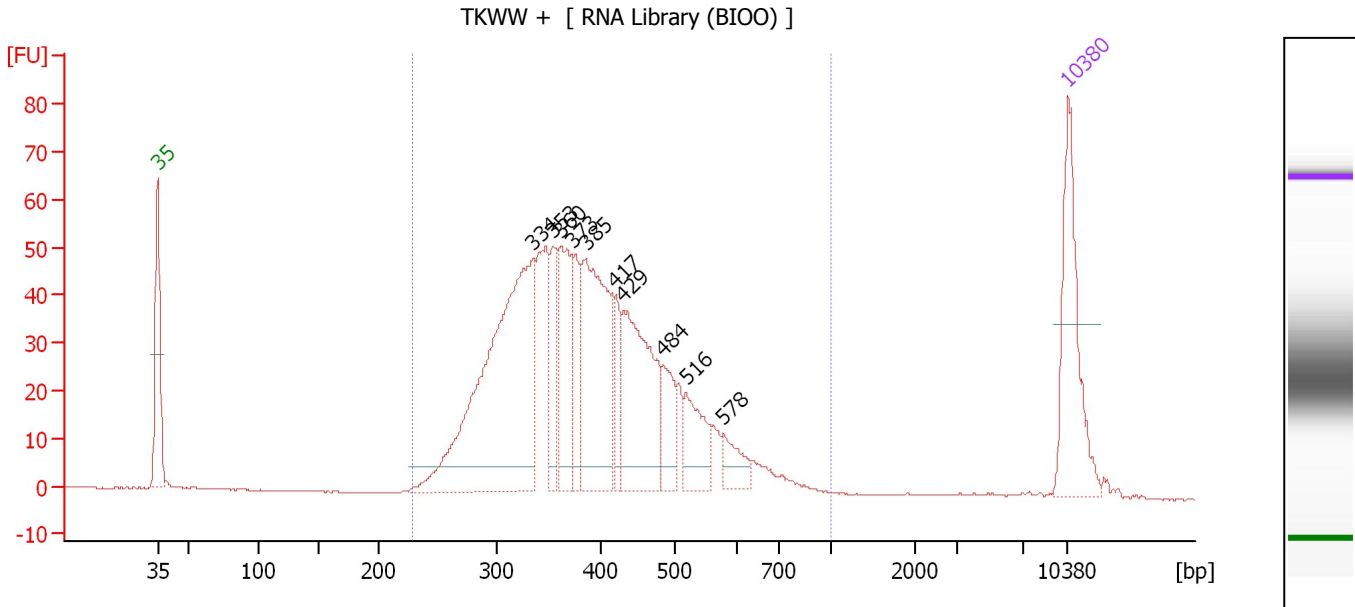
Region table for sample 9 : TKWW -

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
240	408	1,000	1,398.5	99	24.4	1,432.07	5,707.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : TKWW +

Number of peaks found: 10 Corr. Area 1: 1,023.1
 Noise: 0.2

Peak table for sample 10 : TKWW +

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	334	342.47	1,551.4	
3	353	46.00	197.2	
4	360	79.55	334.6	
5	373	42.26	171.9	
6	385	160.04	630.1	
7	417	31.55	114.6	
8	429	134.03	473.2	
9	484	36.07	113.0	
10	516	44.42	130.3	
11	578	21.48	56.3	
12	10,380	75.00	10.9	Upper Marker

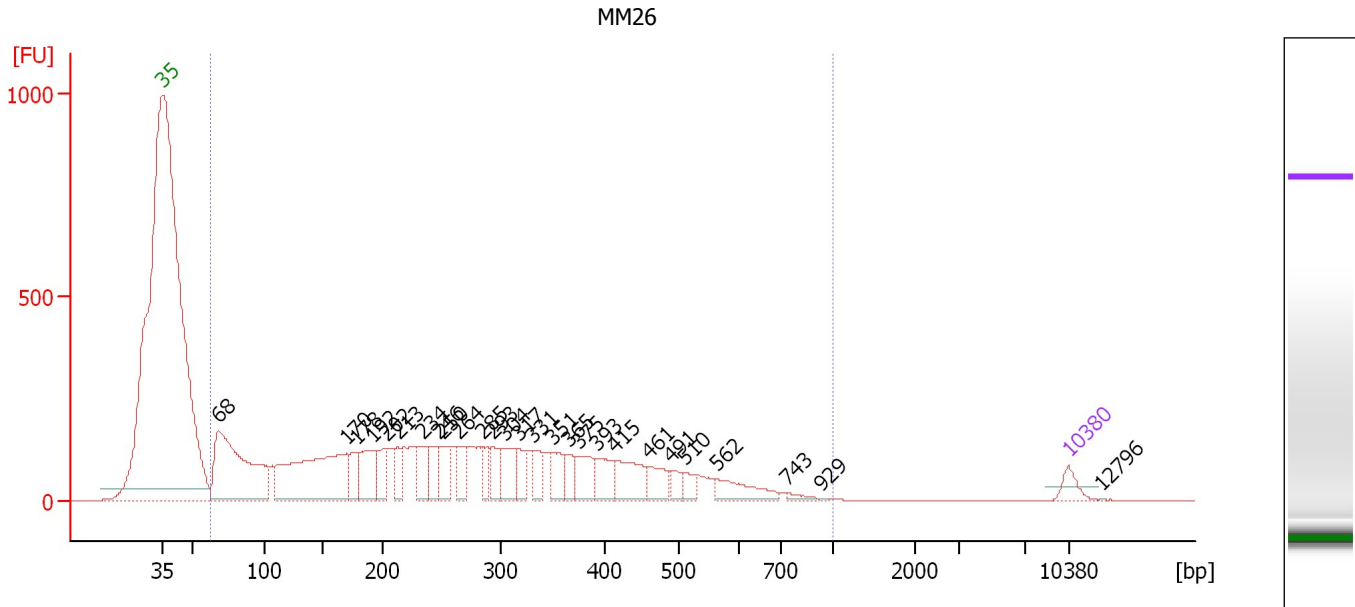
Region table for sample 10 : TKWW +

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
228	398	1,000	1,023.1	98	24.5	1,127.32	4,599.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MM26

Number of peaks found: 27 Corr. Area 1: 6,972.5
 Noise: 0.2

Peak table for sample 11 : MM26

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	1,585.56	35,388.1	
3	170	1,361.06	12,165.7	
4	178	197.88	1,685.6	
5	192	367.08	2,902.2	
6	202	220.39	1,653.0	
7	213	159.43	1,136.6	
8	234	224.04	1,450.2	
9	246	195.24	1,202.0	
10	250	206.24	1,249.4	
11	264	209.81	1,205.8	
12	285	134.25	713.3	
13	293	160.86	832.7	
14	304	269.54	1,342.5	
15	317	146.37	699.0	
16	331	155.02	708.7	
17	351	188.26	813.3	
18	365	117.74	488.9	
19	375	222.02	898.1	
20	393	205.65	793.4	
21	415	300.16	1,097.1	
22	461	174.79	574.6	
23	491	76.61	236.6	
24	510	83.26	247.5	
25	562	201.21	542.5	
26	743	31.58	64.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
Modified: 10/3/2014 11:13:23 AM

Electropherogram Summary Continued ...**... Peak table for sample 11 : MM26**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	929	3.74	6.1	
28	10,380	75.00	10.9	Upper Marker
29	12,796	0.00	0.0	

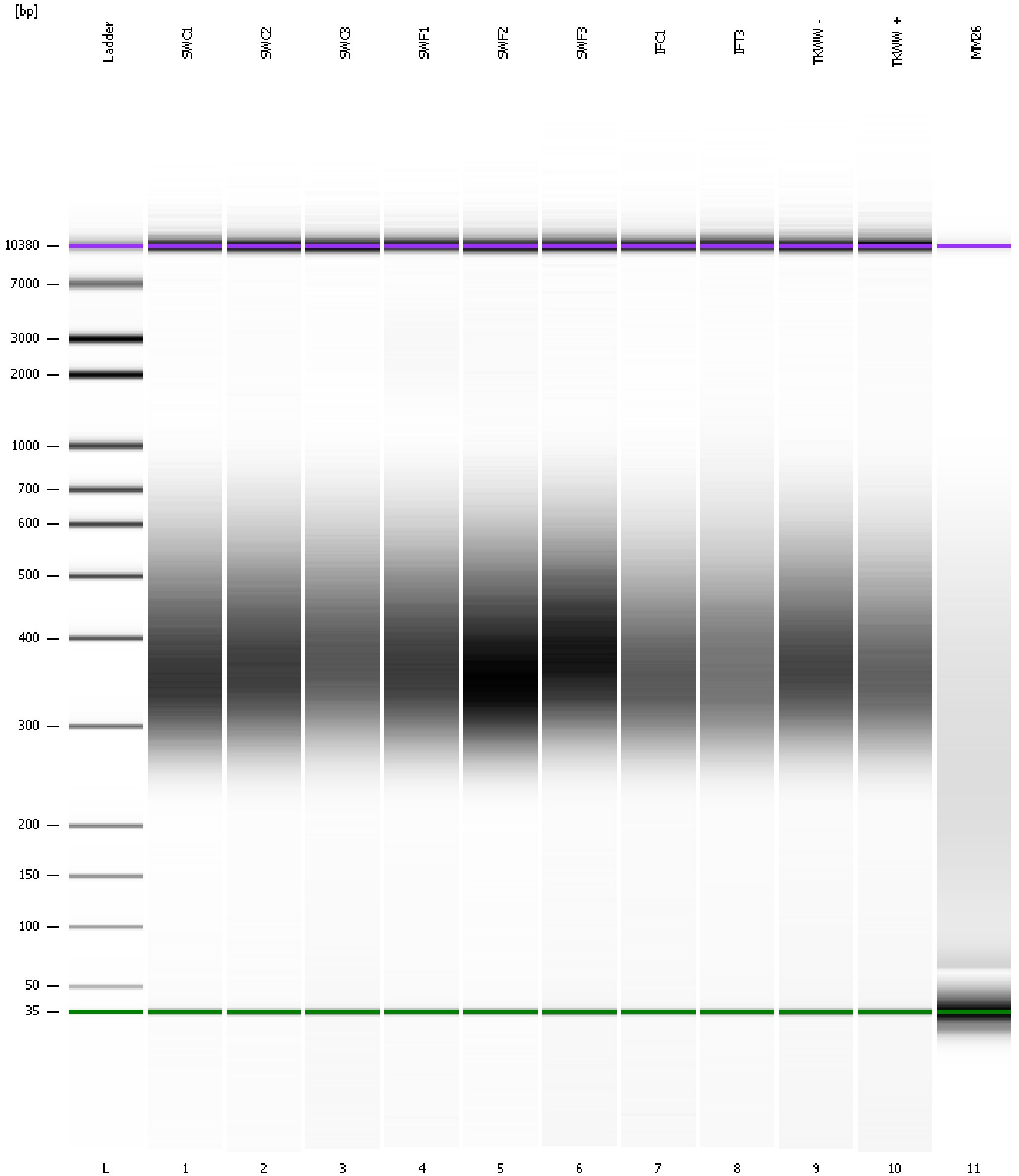
Region table for sample 11 : MM26

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
62	286	1,000	6,972.5	100	52.9	8,680.75	76,204.1	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
Modified: 10/3/2014 11:13:23 AM

Gel Image

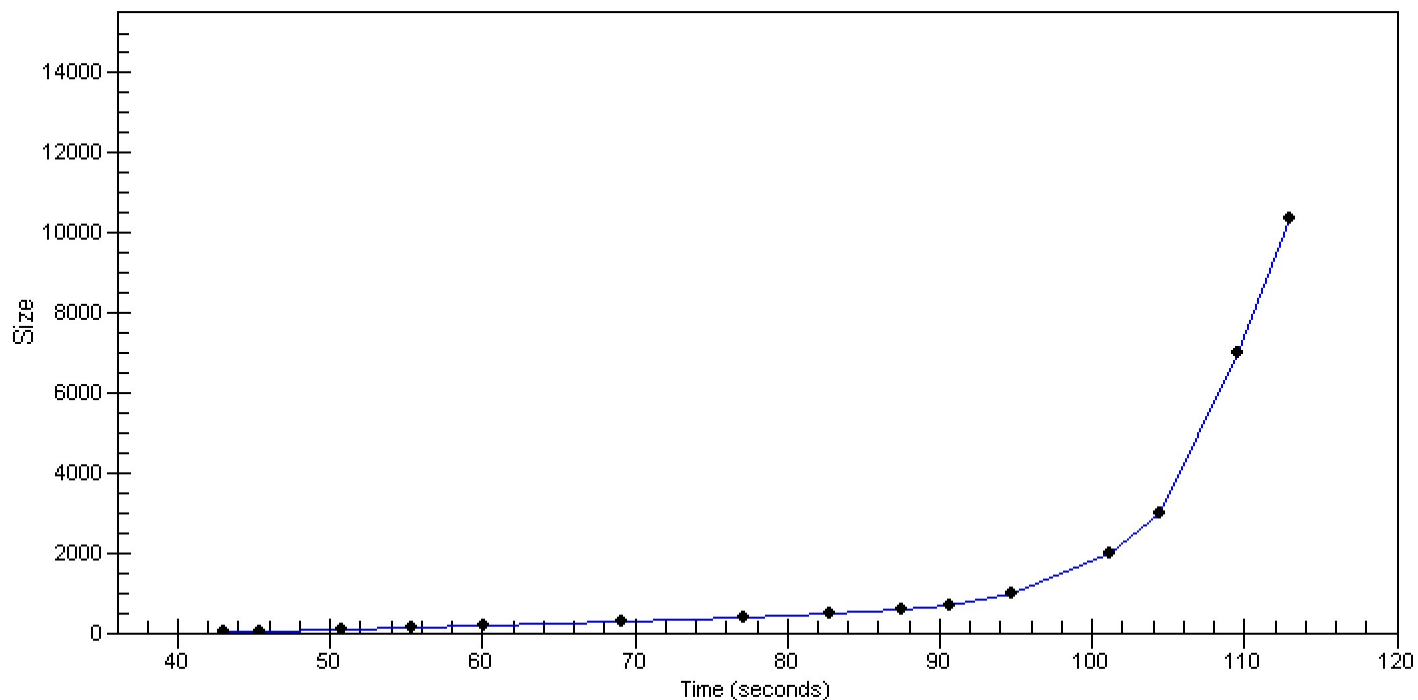


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
Modified: 10/3/2014 11:13:23 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad

Created: 10/3/2014 10:27:43 AM
 Modified: 10/3/2014 11:13:23 AM

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		10/3/2014 11:09:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-03\2014-10-03_001.xad)		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 10:27:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1