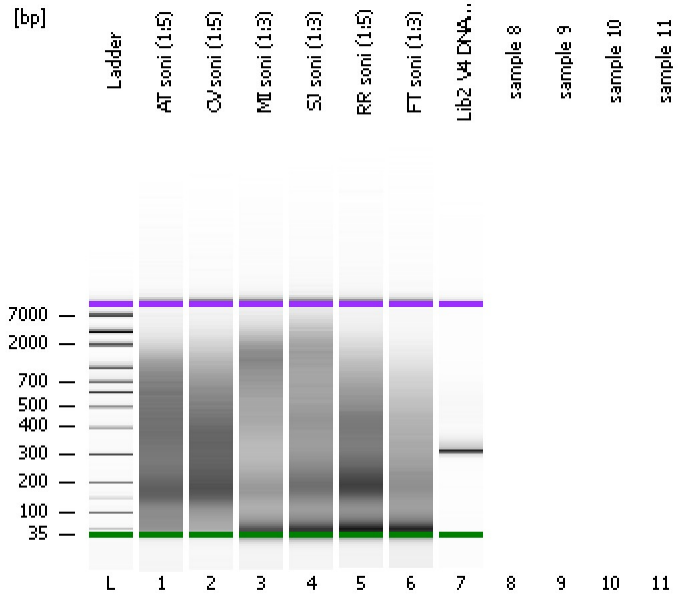
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

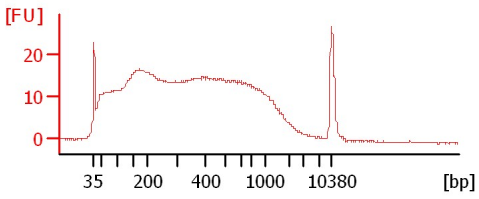
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

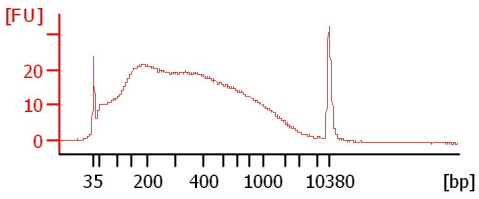
Chip Information:

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

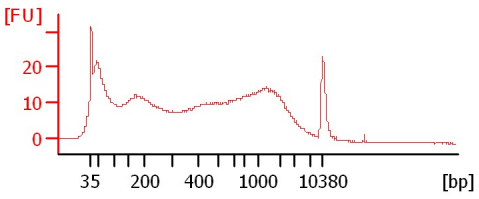
AT soni (1:5)



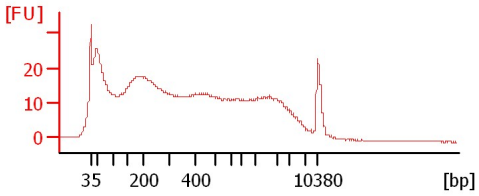
CV soni (1:5)



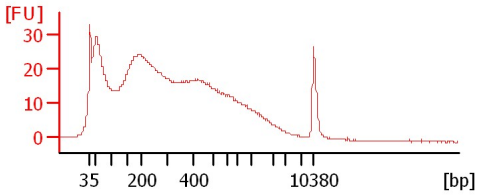
MI soni (1:3)



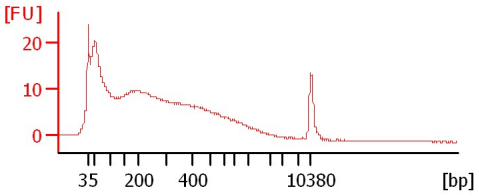
SJ soni (1:3)



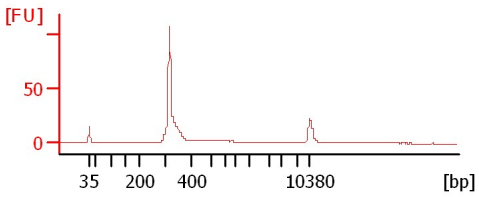
RR soni (1:5)



FT soni (1:3)



Lib2 V4 DNA (1:60)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AT soni (1:5)		☐	✓			
CV soni (1:5)		☐	✓			
MI soni (1:3)		☐	✓			
SJ soni (1:3)		☐	✓			
RR soni (1:5)		☐	✓			
FT soni (1:3)		☐	✓			
Lib2 V4 DNA (1:60)		☐	✓			
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 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

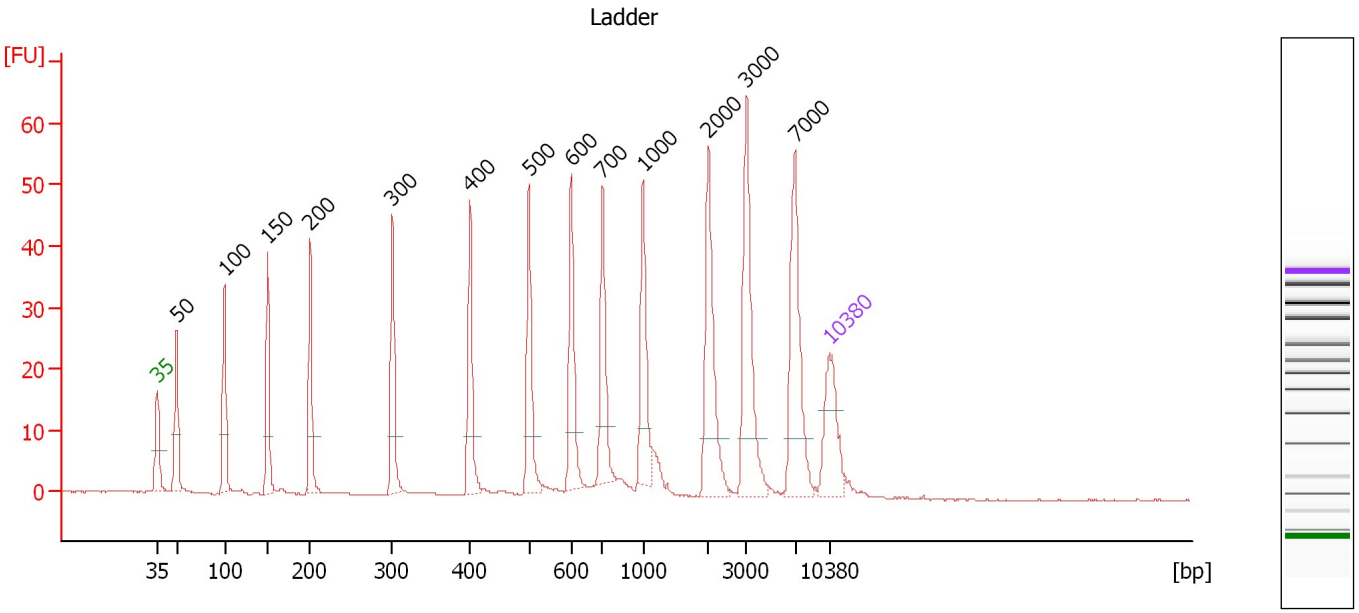
Ladder

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\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

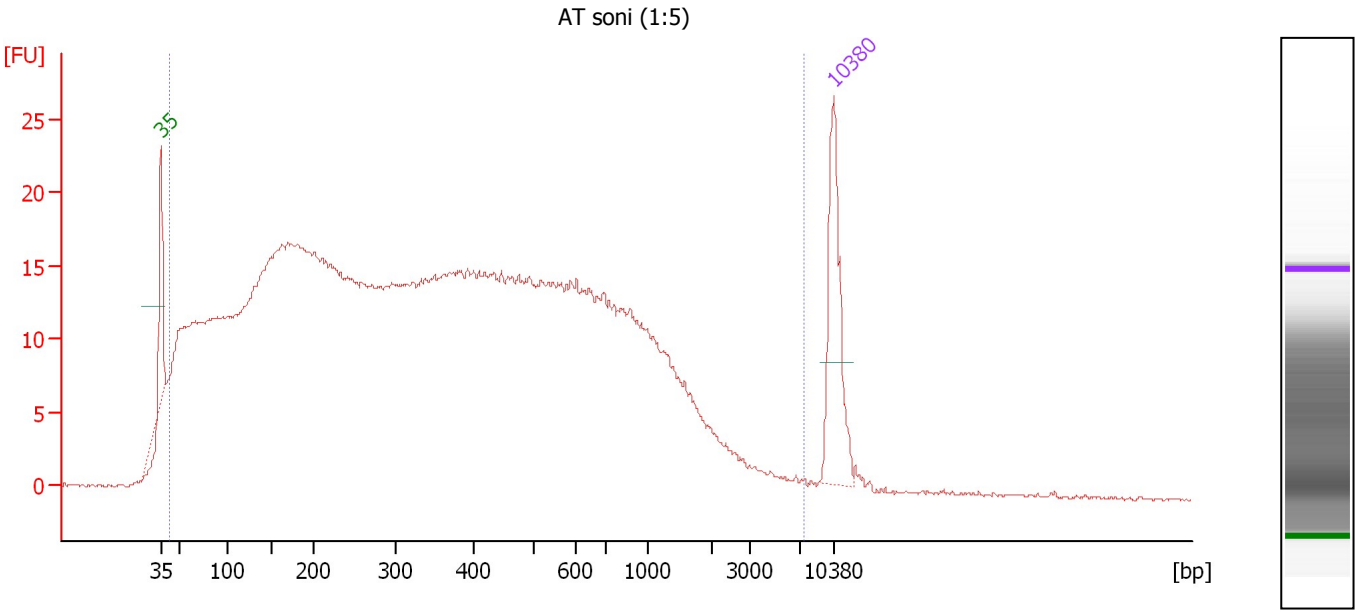
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1		35	125.00	5,411.3	Lower Marker	43.00
2		50	150.00	4,545.5	Ladder Peak	45.00
3		100	150.00	2,272.7	Ladder Peak	49.99
4		150	150.00	1,515.2	Ladder Peak	54.49
5		200	150.00	1,136.4	Ladder Peak	58.93
6		300	150.00	757.6	Ladder Peak	67.48
7		400	150.00	568.2	Ladder Peak	75.53
8		500	150.00	454.5	Ladder Peak	81.69
9		600	150.00	378.8	Ladder Peak	86.08
10		700	150.00	324.7	Ladder Peak	89.35
11		1,000	150.00	227.3	Ladder Peak	93.57
12		2,000	150.00	113.6	Ladder Peak	100.34
13		3,000	150.00	75.8	Ladder Peak	104.34
14		7,000	150.00	32.5	Ladder Peak	109.39
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AT soni (1:5)

Number of peaks found:	0	Corr. Area 1:	1,063.8
Noise:	0.1		

Peak table for sample 1 : AT soni (1:5)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2	▶	10,380	75.00	10.9	Upper Marker	113.00

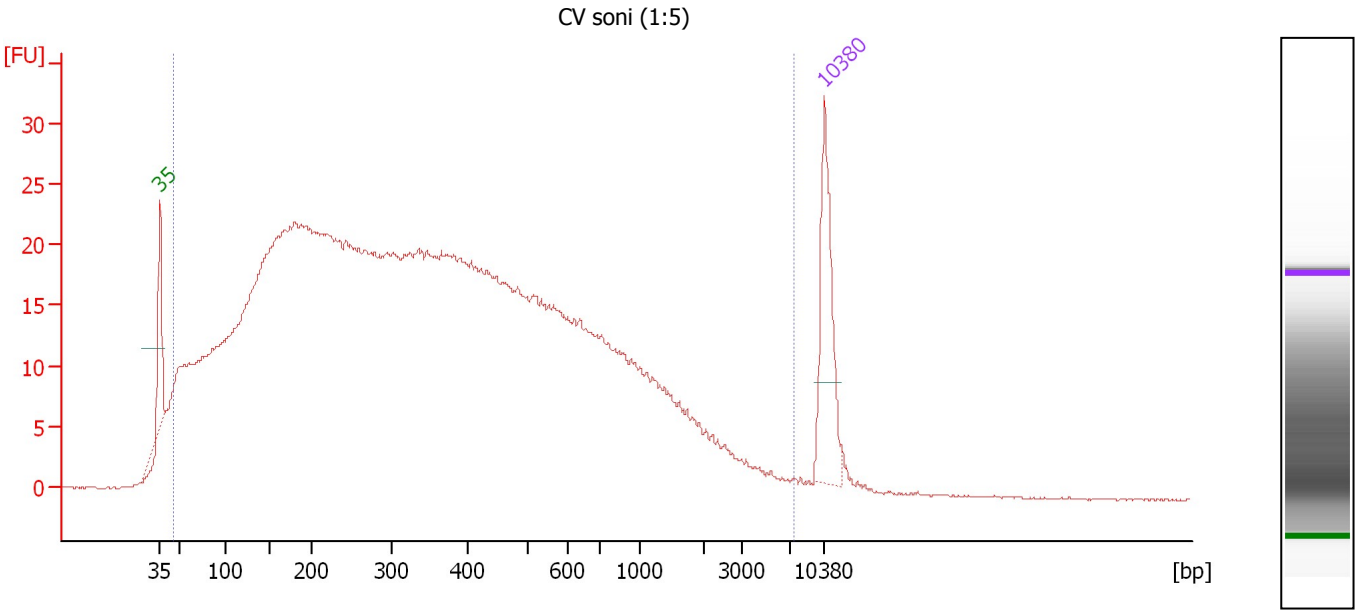
Region table for sample 1 : AT soni (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
42	503	7,444	1,063.8	99	100.0	3,985.45	34,129.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CV soni (1:5)

Number of peaks found:	0	Corr. Area 1:	1,256.5
Noise:	0.1		

Peak table for sample 2 : CV soni (1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

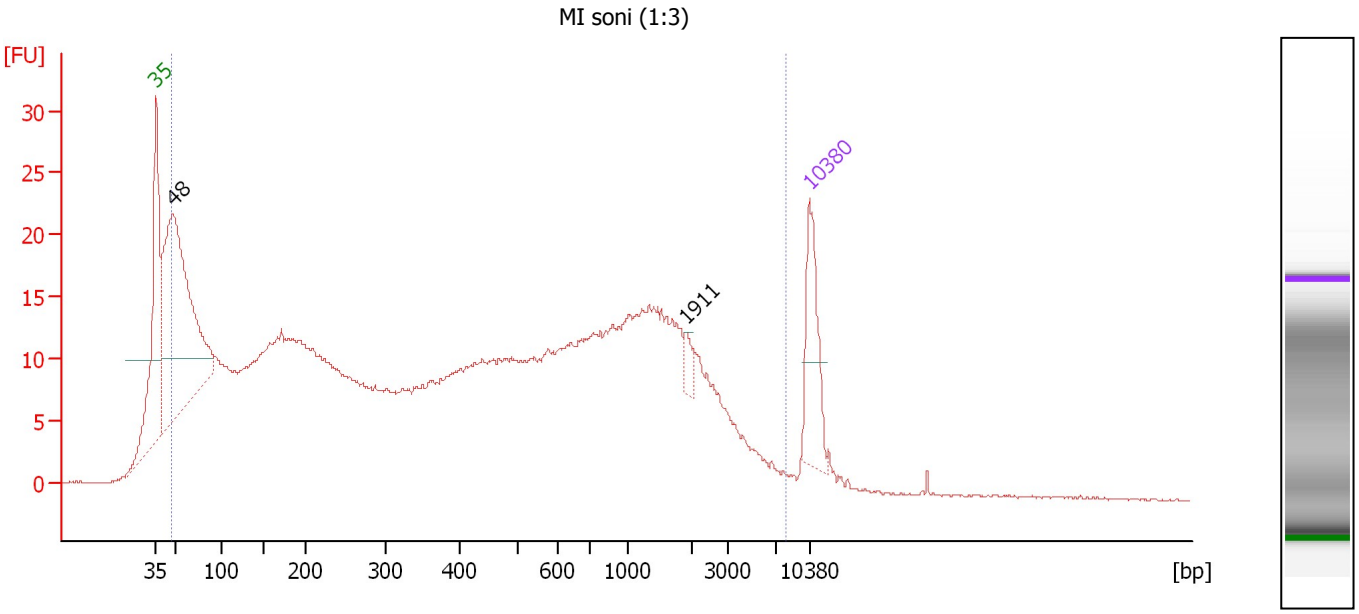
Region table for sample 2 : CV soni (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
46	496	7,330	1,256.5	98	100.0	4,140.57	32,229.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MI soni (1:3)

Number of peaks found:	2	Corr. Area 1:	909.4
Noise:	0.1		

Peak table for sample 3 : MI soni (1:3)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	48	643.73	20,195.2		44.77
3	1,911	13.90	11.0		99.74
4	10,380	75.00	10.9	Upper Marker	113.00

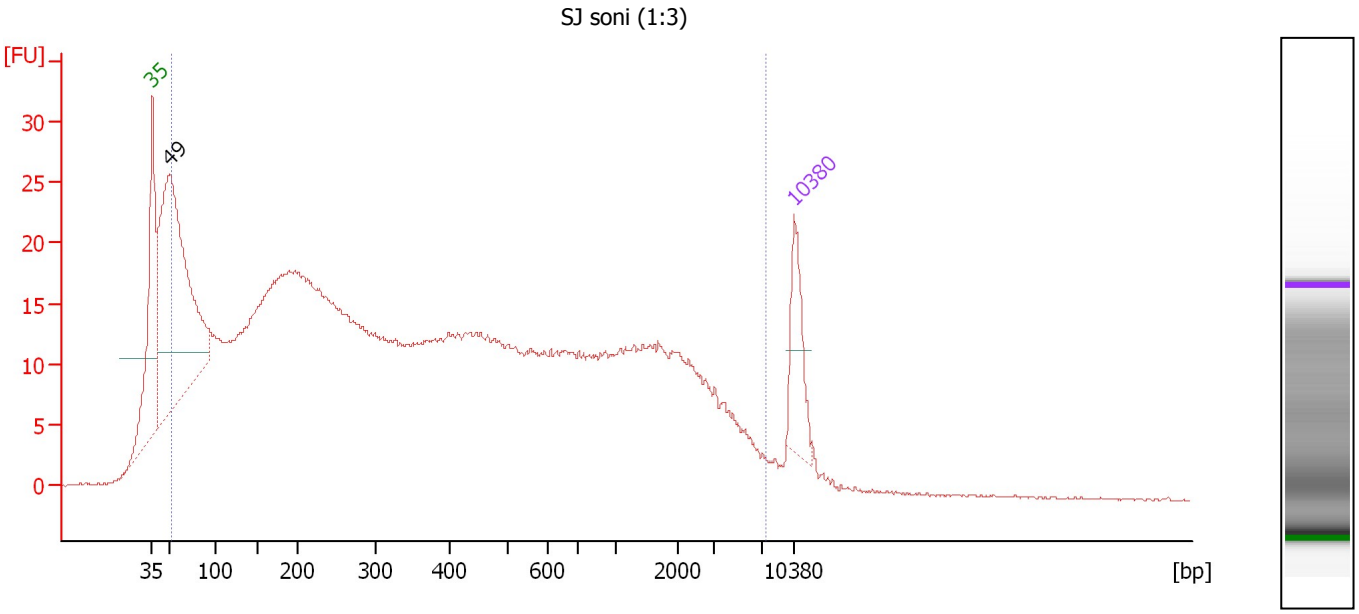
Region table for sample 3 : MI soni (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
47	769	8,045	909.4	94	100.0	4,001.51	37,243.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SJ soni (1:3)

Number of peaks found:	1	Corr. Area 1:	1,098.0
Noise:	0.1		

Peak table for sample 4 : SJ soni (1:3)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		49	862.10	26,676.8		44.86
3	▶	10,380	75.00	10.9	Upper Marker	113.00

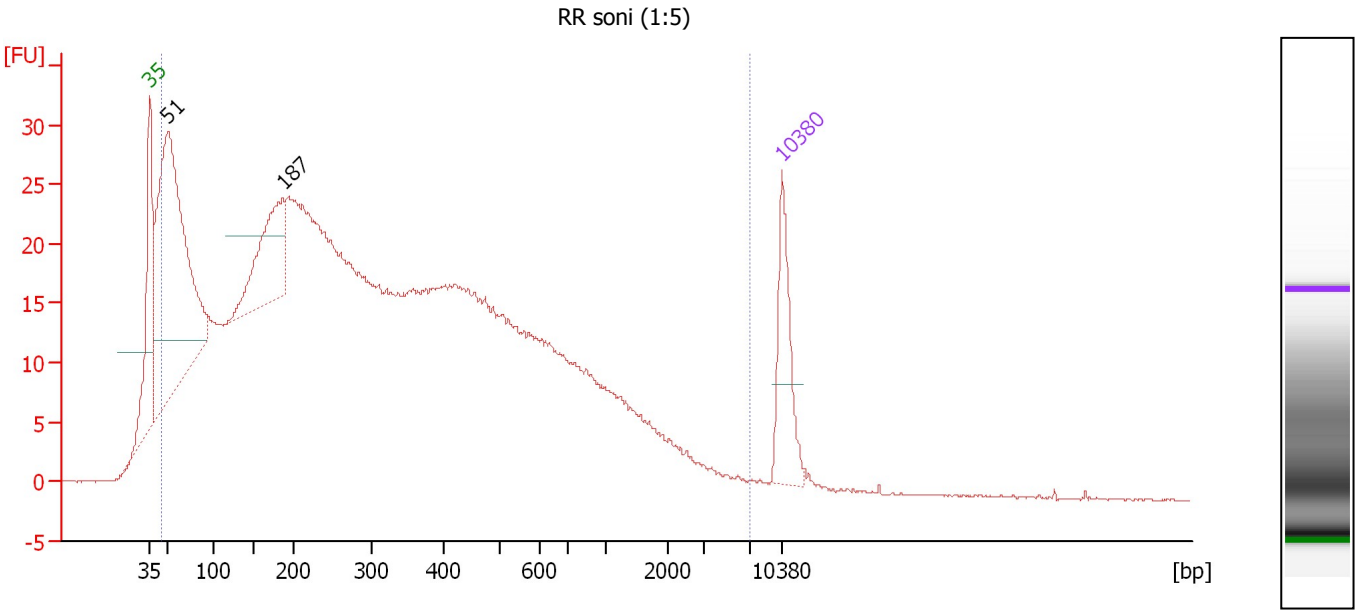
Region table for sample 4 : SJ soni (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
50	724	7,435	1,098.0	93	100.0	5,533.85	48,458.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RR soni (1:5)

Number of peaks found:	2	Corr. Area 1:	1,279.8
Noise:	0.1		

Peak table for sample 5 : RR soni (1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	51	719.16	21,510.2		45.06
3	187	182.55	1,482.1		57.74
4	10,380	75.00	10.9	Upper Marker	113.00

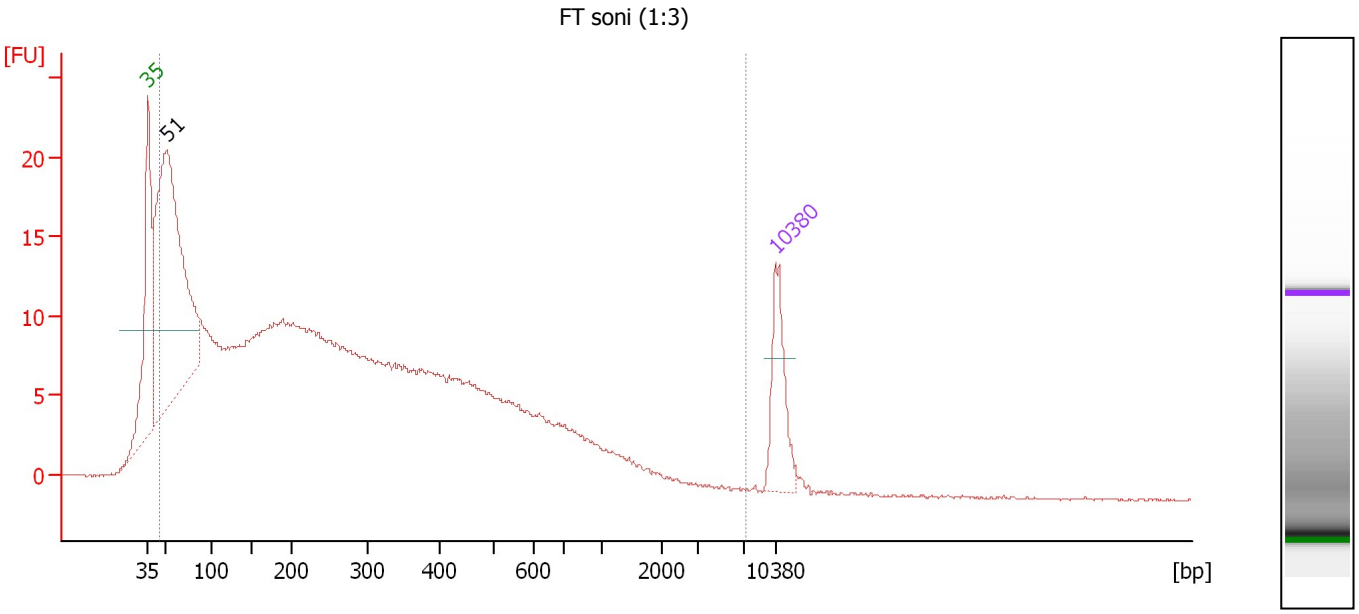
Region table for sample 5 : RR soni (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
45	437	7,026	1,279.7	96	100.0	4,811.64	47,758.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : FT soni (1:3)

Number of peaks found:	1	Corr. Area 1:	594.2
Noise:	0.1		

Peak table for sample 6 : FT soni (1:3)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		51	819.78	24,435.1		45.08
3	▶	10,380	75.00	10.9	Upper Marker	113.00

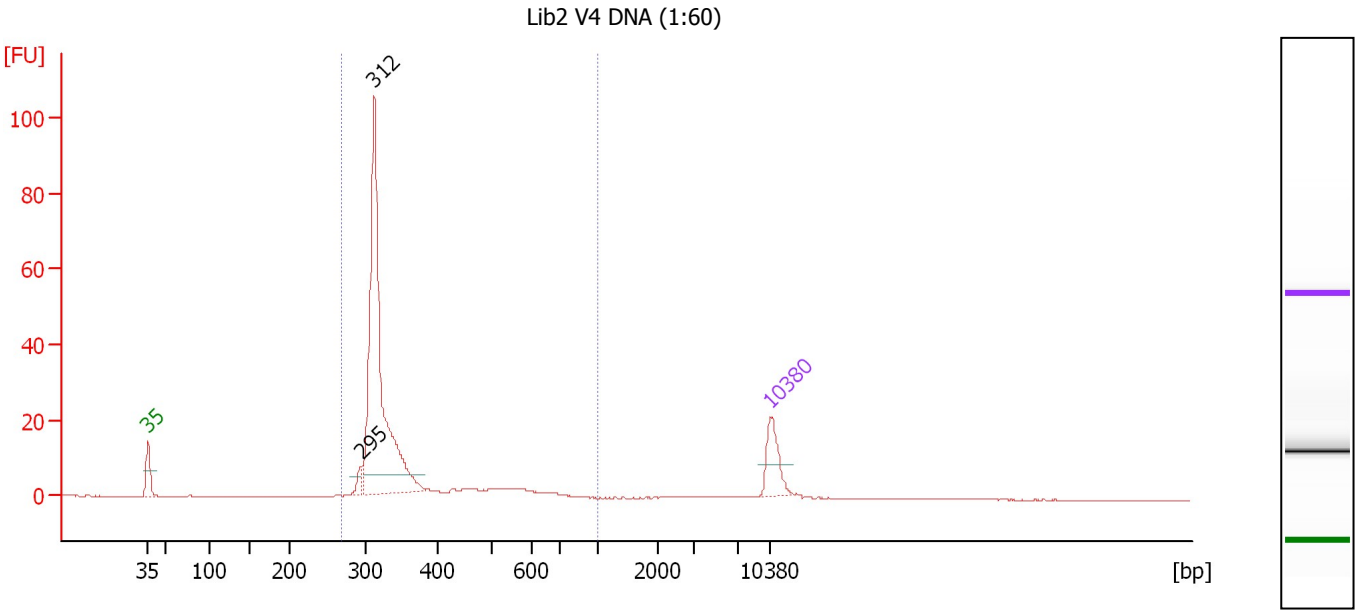
Region table for sample 6 : FT soni (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
45	325	7,344	594.2	96	100.0	3,845.97	46,216.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Lib2 V4 DNA (1:60)

Number of peaks found:	2	Corr. Area 1:	262.8
Noise:	0.1		

Peak table for sample 7 : Lib2 V4 DNA (1:60)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		295	29.49	151.6		67.03
3		312	907.72	4,403.8		68.47
4	▶	10,380	75.00	10.9	Upper Marker	113.00

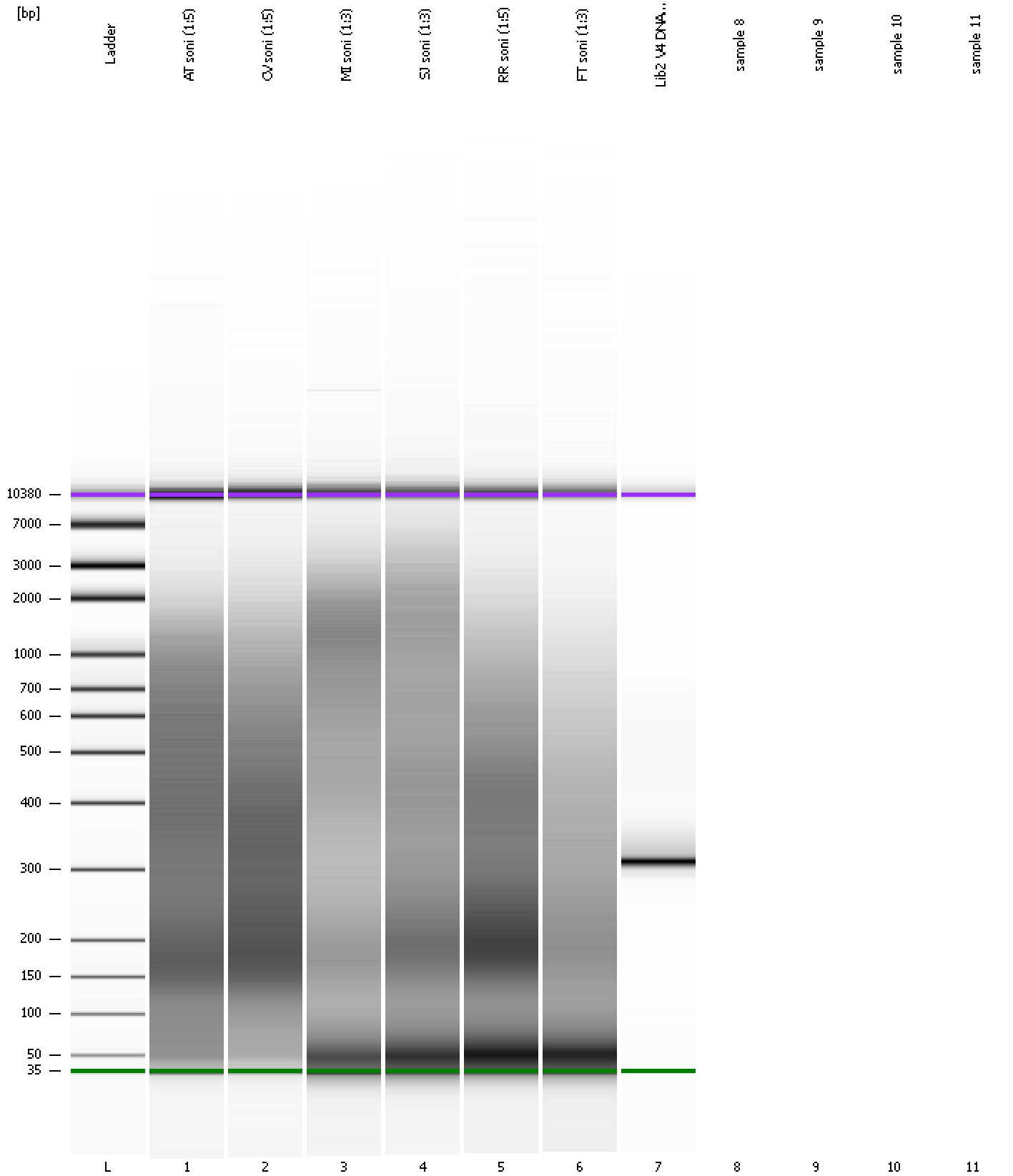
Region table for sample 7 : Lib2 V4 DNA (1:60)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
268	351	1,000	262.8	96	24.1	1,105.58	5,007.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Invalid Samples

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:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad

Created: 2/23/2015 12:36:33 PM
Modified: 2/23/2015 1:14:42 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		2/23/2015 1:06:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-23\2015-02-23_003.xad)		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/23/2015 12:36:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1