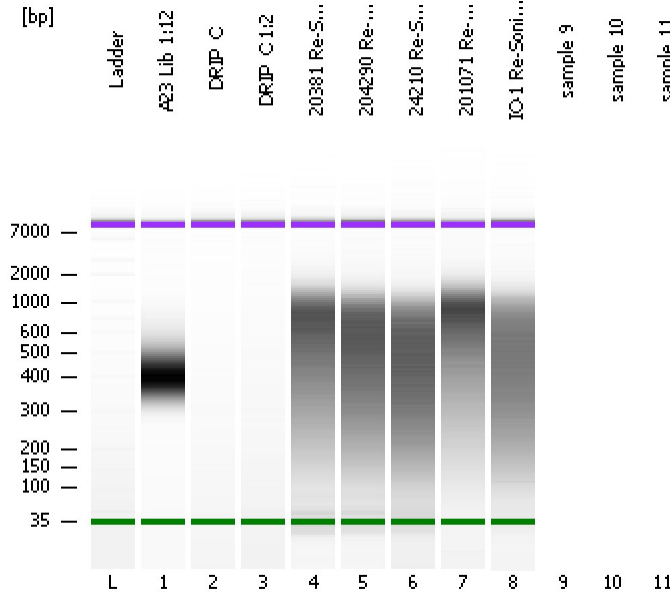


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 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

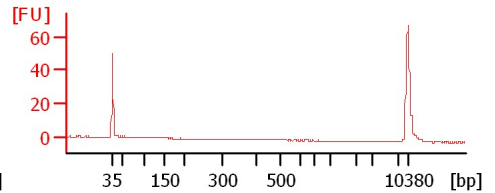
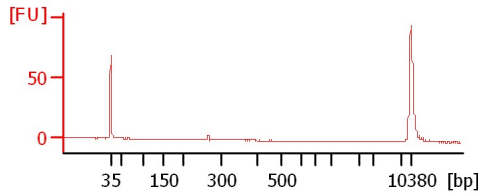
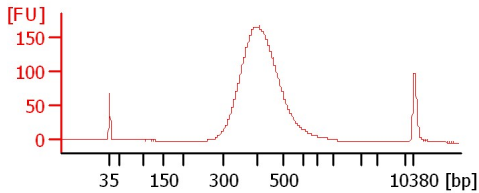
Chip Information:

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

A23 Lib 1:12

DRIP_C

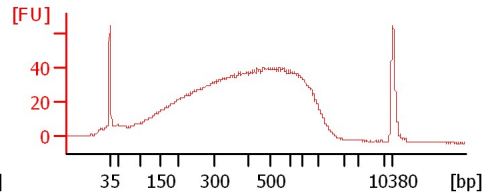
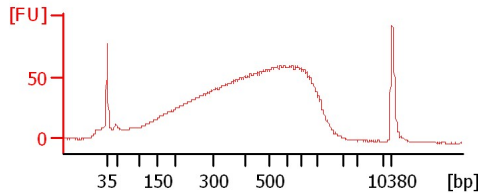
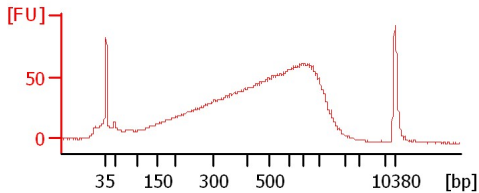
DRIP_C 1:2



20381 Re-Soni 1:5

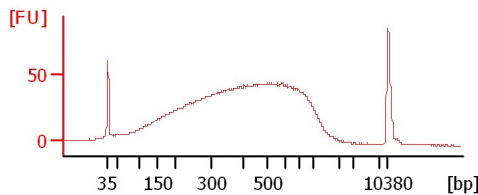
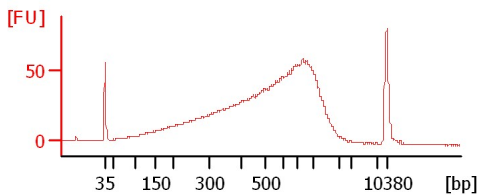
204290 Re-Soni 1:5

24210 Re-Soni 1:5



201071 Re-Soni 1:7

IO-1 Re-Soni 1:5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A23 Lib 1:12		<input type="checkbox"/>	✓			
DRIP_C		<input type="checkbox"/>	✓			
DRIP_C 1:2		<input type="checkbox"/>	✓			
20381 Re-Soni 1:5		<input type="checkbox"/>	✓			
204290 Re-Soni 1:5		<input type="checkbox"/>	✓			
24210 Re-Soni 1:5		<input type="checkbox"/>	✓			
201071 Re-Soni 1:7		<input type="checkbox"/>	✓			
IO-1 Re-Soni 1:5		<input type="checkbox"/>	✓			
sample 9		<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\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 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

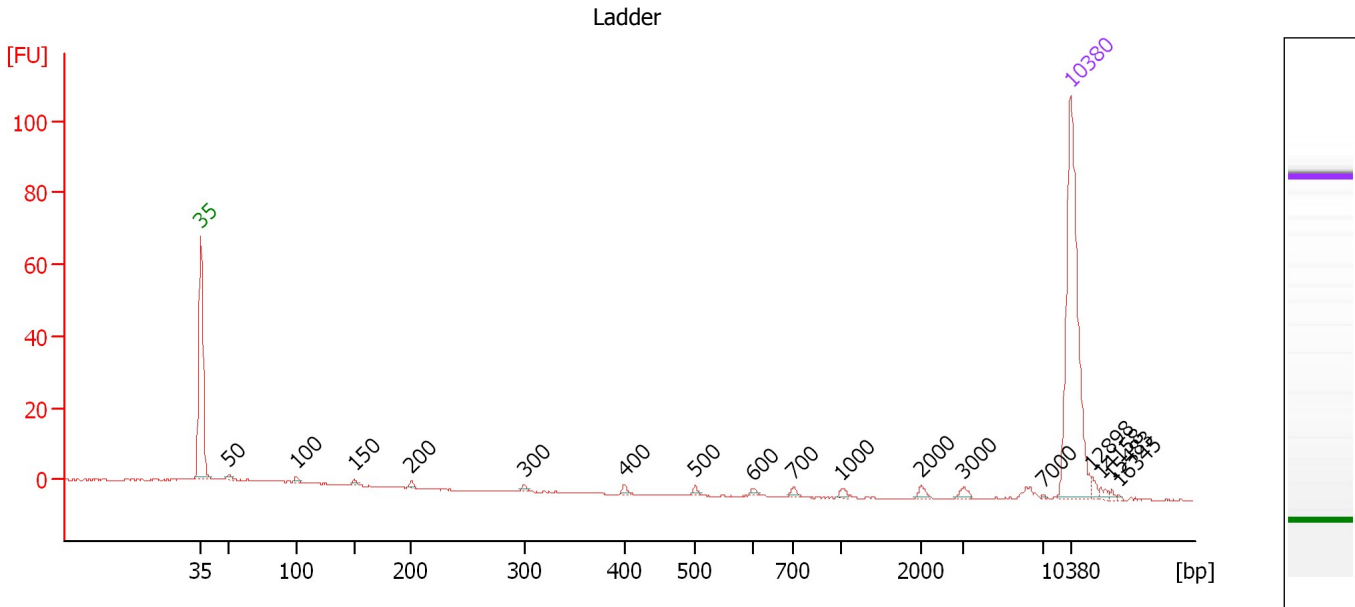
Ladder

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\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

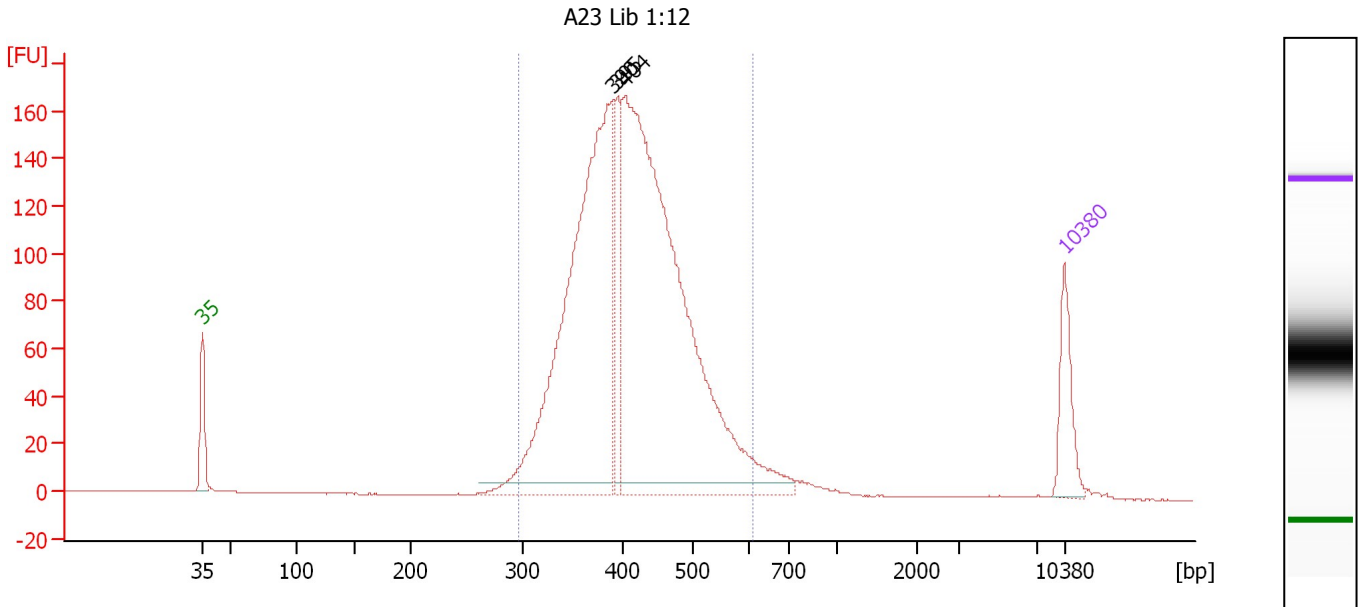
Peak table for Ladder

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
16	12,898	0.00	0.0	
17	14,158	0.00	0.0	
18	15,483	0.00	0.0	
19	16,345	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : A23 Lib 1:12

Number of peaks found: 3 Corr. Area 1: 2,296.2
 Noise: 0.1

Peak table for sample 1 : A23 Lib 1:12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	390	1,054.21	4,090.4	
3	395	143.58	550.3	
4	404	1,429.65	5,361.4	
5	10,380	75.00	10.9	Upper Marker

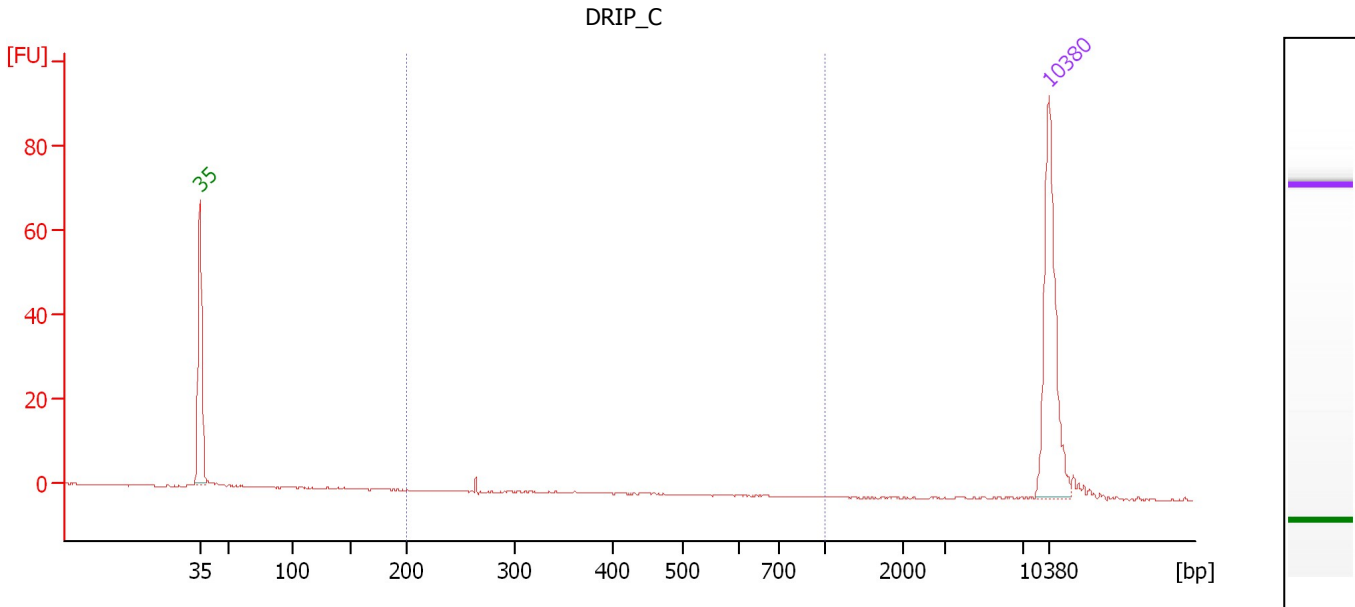
Region table for sample 1 : A23 Lib 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	608	417	9,643.0	2,586.47	2,296.2	95	14.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : DRIP_C

Number of peaks found: 0 Corr. Area 1: 0.8
 Noise: 0.1

Peak table for sample 2 : DRIP_C

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

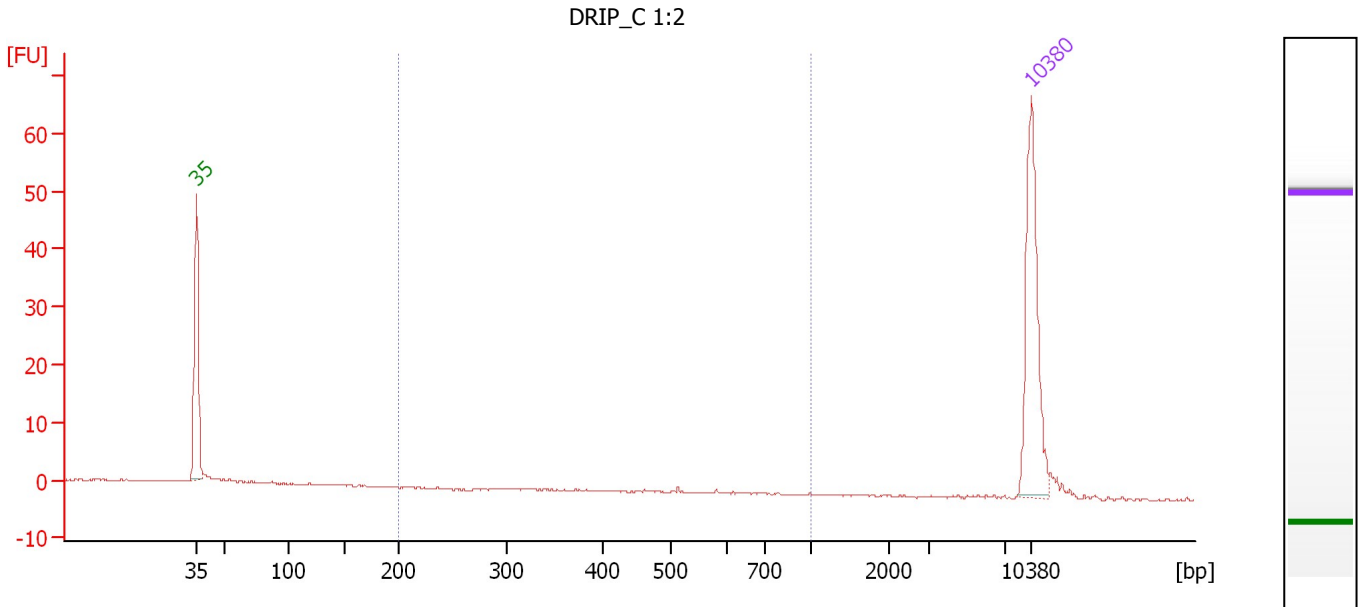
Region table for sample 2 : DRIP_C

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	267	6.0	1.06	0.8	7	6.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DRIP_C 1:2

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

Peak table for sample 3 : DRIP_C 1:2

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

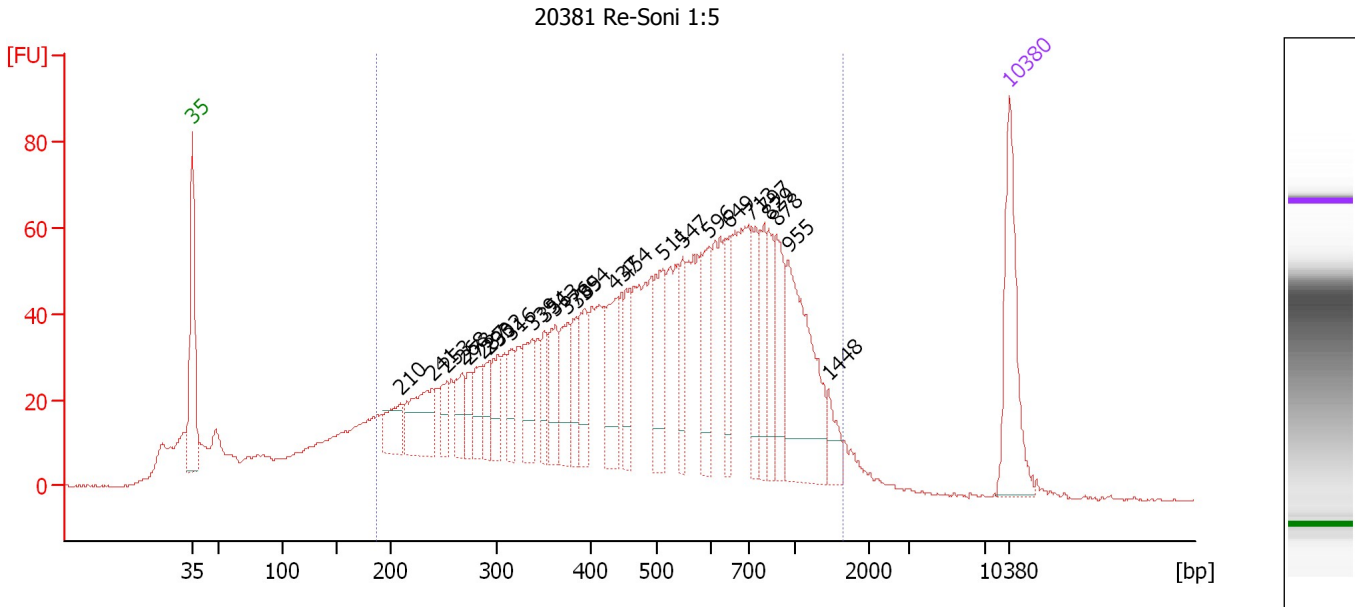
Region table for sample 3 : DRIP_C 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	538	0.4	0.15	0.1	1	6.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : 20381 Re-Soni 1:5

Height Threshold [FU] : 10

Overall Results for sample 4 : 20381 Re-Soni 1:5

Number of peaks found: 27 Corr. Area 1: 2,074.3
 Noise: 0.3

Peak table for sample 4 : 20381 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	210	42.60	307.4	
3	241	76.55	481.8	
4	253	26.98	161.4	
5	268	34.13	193.0	
6	273	23.08	127.9	
7	287	34.93	184.7	
8	293	24.92	128.8	
9	302	37.86	189.6	
10	316	31.27	150.1	
11	339	51.20	228.6	
12	351	29.12	125.6	
13	363	43.18	180.2	
14	376	47.78	192.5	
15	385	32.73	128.8	
16	394	45.68	175.6	
17	437	59.95	207.7	
18	454	42.16	140.6	
19	511	61.47	182.4	
20	547	36.63	101.5	
21	596	55.70	141.5	
22	649	41.30	96.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad


Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : 20381 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	713	55.13	117.1	
24	797	37.97	72.2	
25	829	39.48	72.2	
26	878	49.28	85.0	
27	955	131.46	208.5	
28	1,448	19.75	20.7	
29	10,380	75.00	10.9	Upper Marker

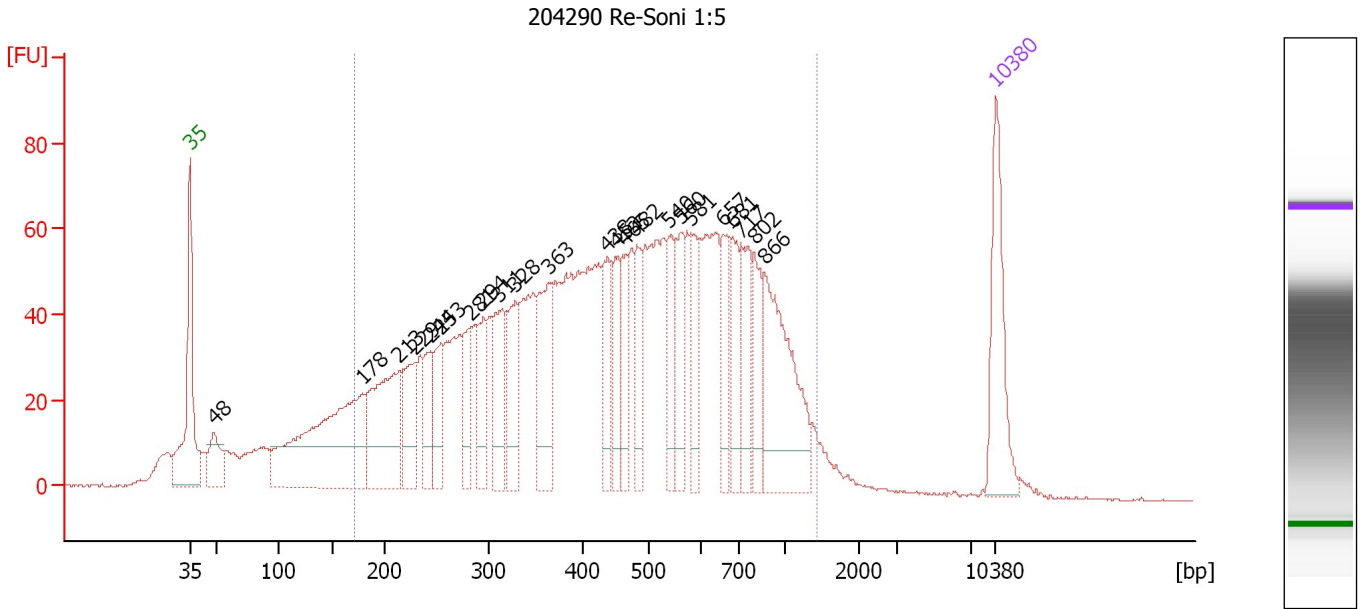
Region table for sample 4 : 20381 Re-Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
187	1,642	561	8,421.2	2,261.64	2,074.3	83	50.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : 204290 Re-Soni 1:5

Height Threshold [FU] : 10

Overall Results for sample 5 : 204290 Re-Soni 1:5

Number of peaks found: 23 Corr. Area 1: 2,378.5
 Noise: 0.2

Peak table for sample 5 : 204290 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	55.28	1,729.0	
3	178	313.89	2,666.7	
4	213	171.93	1,224.1	
5	229	75.80	502.3	
6	244	55.74	346.8	
7	253	56.81	339.9	
8	281	52.59	283.2	
9	294	60.80	313.2	
10	311	82.00	399.9	
11	328	78.04	360.6	
12	363	99.10	413.1	
13	438	62.74	217.2	
14	453	52.12	174.3	
15	465	45.50	148.2	
16	482	53.32	167.5	
17	540	51.83	145.4	
18	560	57.56	155.7	
19	581	46.01	120.0	
20	657	57.55	132.7	
21	681	56.46	125.6	
22	717	60.48	127.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : 204290 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	802	53.71	101.4	
24	866	152.38	266.5	
25	10,380	75.00	10.9	Upper Marker

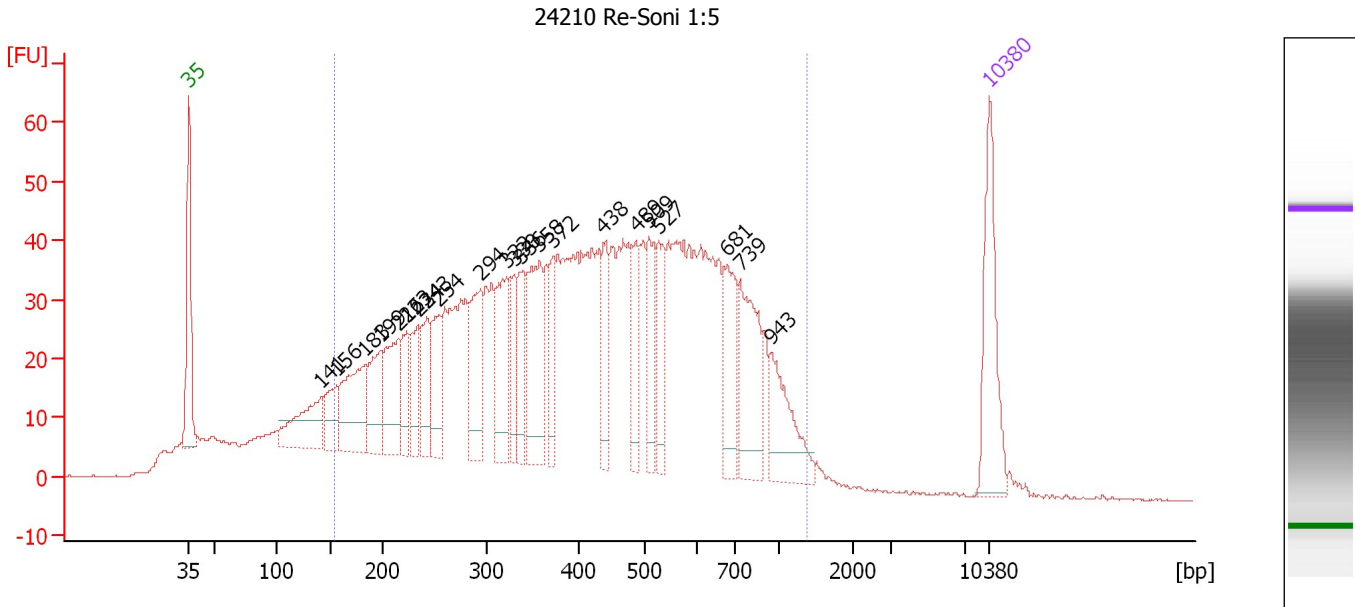
Region table for sample 5 : 204290 Re-Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
172	1,447	499	10,918.3	2,657.25	2,378.5	85	47.3	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : 24210 Re-Soni 1:5

Number of peaks found: 22 Corr. Area 1: 1,805.1
 Noise: 0.2

Peak table for sample 6 : 24210 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	141	91.90	984.6	
3	156	46.80	454.6	
4	183	105.53	874.4	
5	199	74.26	566.6	
6	216	86.81	610.1	
7	223	46.74	317.2	
8	234	50.21	325.0	
9	243	52.70	328.8	
10	254	65.86	392.6	
11	294	87.29	449.4	
12	322	92.04	432.5	
13	330	45.12	207.2	
14	336	55.73	251.1	
15	358	112.77	477.7	
16	372	45.02	183.3	
17	438	51.10	176.7	
18	489	50.33	156.0	
19	509	59.55	177.1	
20	527	54.39	156.2	
21	681	70.88	157.6	
22	739	93.31	191.3	
23	943	67.49	108.4	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...

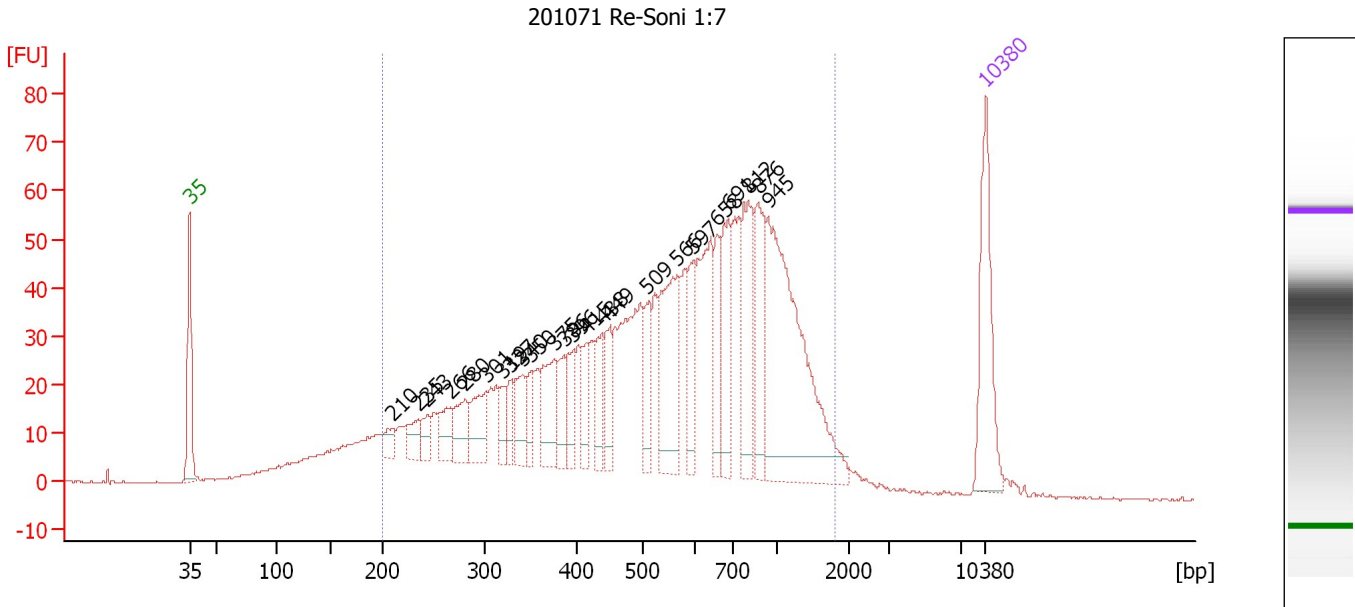
... Region table for sample 6 : 24210 Re-Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
154	1,384	457	12,850.3	2,854.36	1,805.1	87	46.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 201071 Re-Soni 1:7

Number of peaks found: 24 Corr. Area 1: 1,571.9
 Noise: 0.2

Peak table for sample 7 : 201071 Re-Soni 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	210	17.49	126.5	
3	235	24.65	159.0	
4	243	17.71	110.4	
5	266	34.13	194.1	
6	280	37.76	204.0	
7	301	47.88	241.2	
8	319	20.49	97.4	
9	327	22.82	105.6	
10	340	37.39	166.5	
11	350	22.83	98.9	
12	375	57.01	230.3	
13	386	32.41	127.2	
14	396	27.49	105.2	
15	415	26.89	98.2	
16	438	34.56	119.6	
17	449	36.14	121.8	
18	509	38.58	114.9	
19	566	109.13	292.0	
20	597	42.68	108.4	
21	658	41.82	96.3	
22	691	67.78	148.5	
23	812	81.84	152.8	
24	876	68.80	118.9	
25	945	240.72	386.0	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 PM

Electropherogram Summary Continued ...

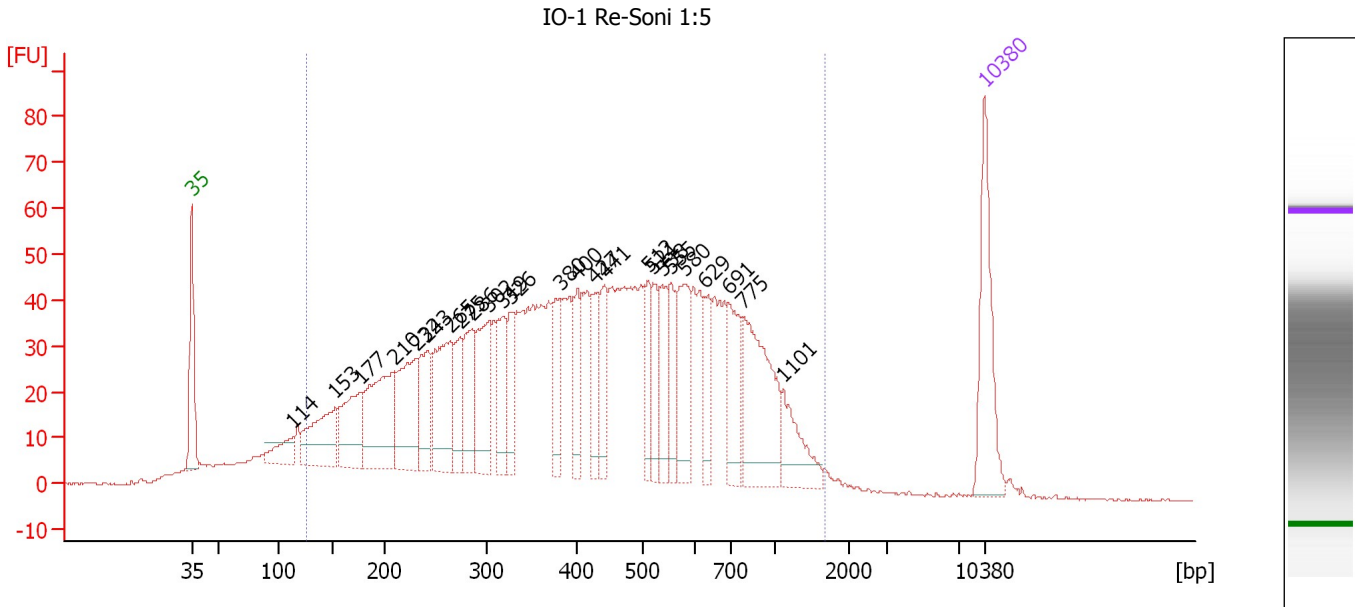
... Region table for sample 7 : 201071 Re-Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,795	630	6,739.5	2,011.88	1,571.9	89	50.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : IO-1 Re-Soni 1:5

Number of peaks found: 25 Corr. Area 1: 2,051.0
 Noise: 0.2

Peak table for sample 8 : IO-1 Re-Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	114	37.07	494.7	
3	153	98.49	976.1	
4	177	91.72	783.0	
5	210	134.71	972.2	
6	232	110.14	718.3	
7	243	70.75	441.7	
8	265	117.92	674.0	
9	275	53.55	295.1	
10	286	70.63	373.6	
11	302	92.84	465.4	
12	319	62.75	298.4	
13	326	41.38	192.2	
14	380	55.69	221.8	
15	400	42.82	162.3	
16	427	42.41	150.5	
17	441	49.32	169.5	
18	512	41.98	124.3	
19	521	41.10	119.6	
20	538	48.39	136.3	
21	555	38.88	106.1	
22	580	72.55	189.6	
23	629	40.05	96.5	
24	691	60.86	133.4	
25	775	129.05	252.2	
26	1,101	46.36	63.8	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
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Electropherogram Summary Continued ...**... Peak table for sample 8 : IO-1 Re-Soni 1:5**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

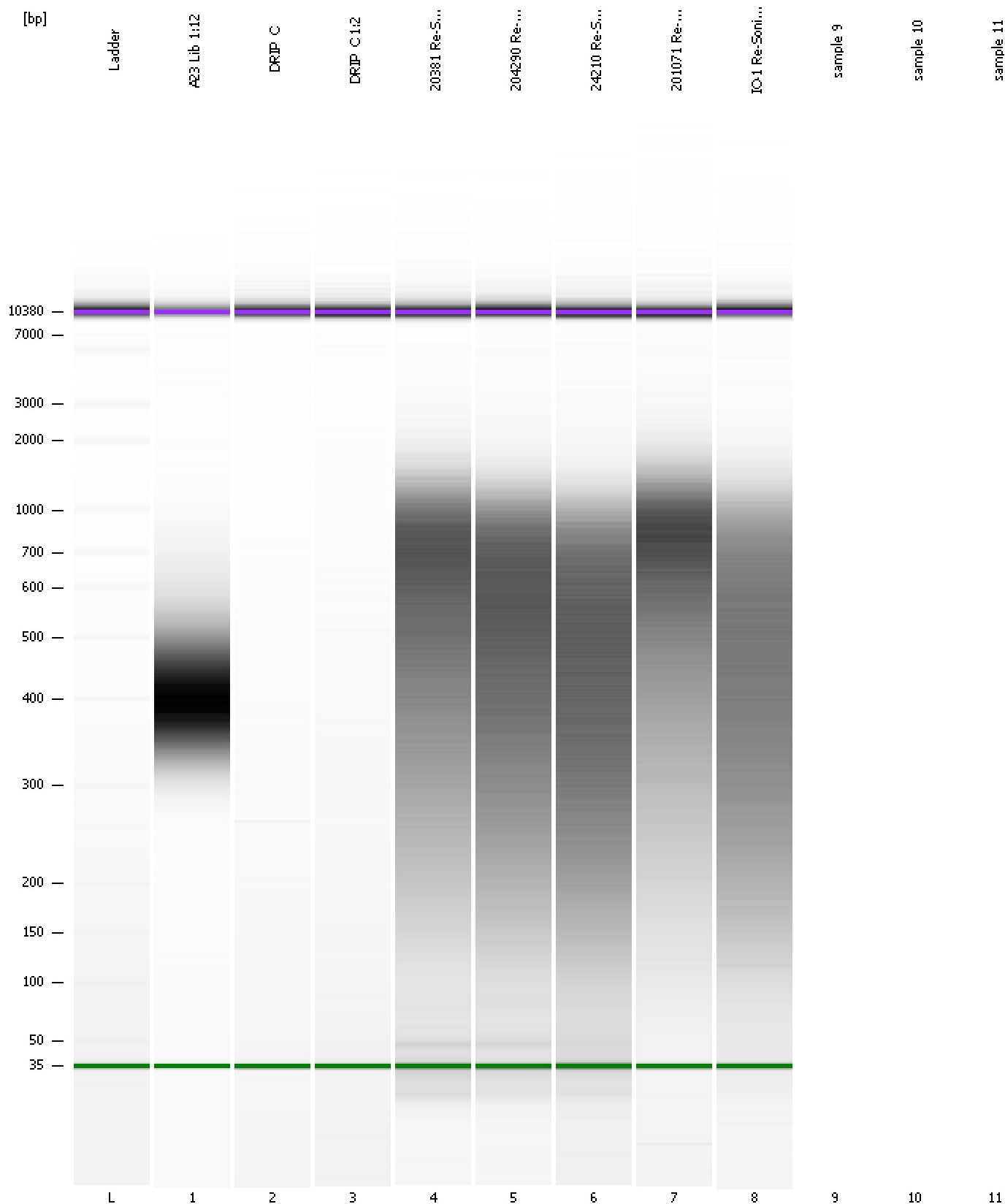
Region table for sample 8 : IO-1 Re-Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
126	1,682	468	12,718.5	2,680.43	2,051.0	92	53.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
Modified: 3/6/2013 12:41:38 PM

Invalid Samples

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\2013-03-06\2013-03-06_002.xad

Created: 3/6/2013 12:01:47 PM
 Modified: 3/6/2013 12:41:38 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		3/6/2013 12:34:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-06\2013-03-06_002.xad)		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/6/2013 12:01:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1