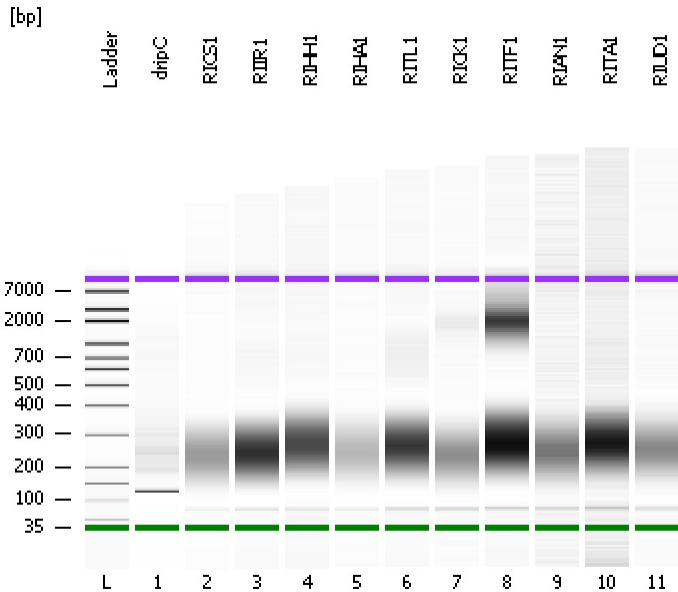


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
Modified: 8/28/2013 3:12:53 PM

Electrophoresis File Run Summary



Instrument Information:

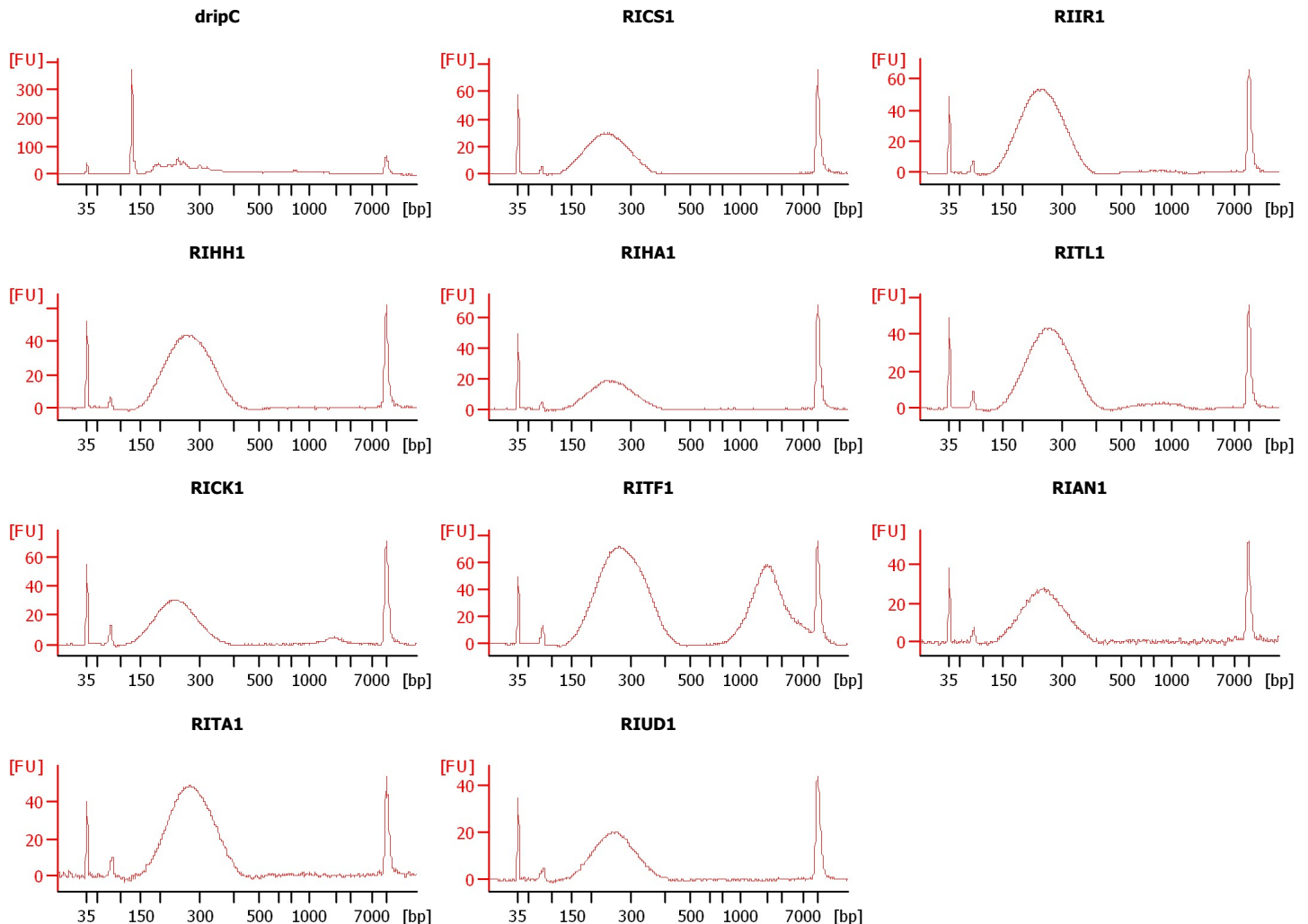
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
Modified: 8/28/2013 3:12:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
dripC		<input type="checkbox"/>	✓			
RICS1		<input type="checkbox"/>	✓			
RIIR1		<input type="checkbox"/>	✓			
RIHH1		<input type="checkbox"/>	✓			
RIHA1		<input type="checkbox"/>	✓			
RITL1		<input type="checkbox"/>	✓			
RICK1		<input type="checkbox"/>	✓			
RITF1		<input type="checkbox"/>	✓			
RIAN1		<input type="checkbox"/>	✓			
RITA1		<input type="checkbox"/>	✓			
RIUD1		<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\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
Modified: 8/28/2013 3:12:53 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

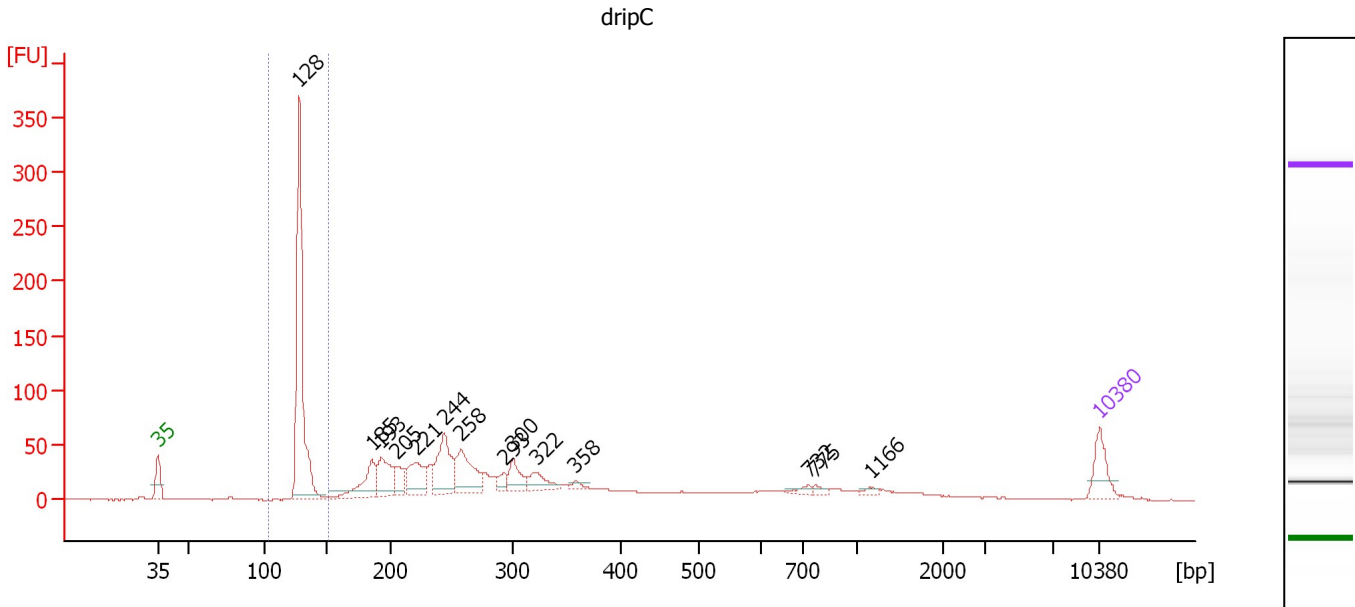
Ladder

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\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary



Overall Results for sample 1 : dripC

Number of peaks found: 14 Corr. Area 1: 355.8
 Noise: 0.2

Peak table for sample 1 : dripC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	876.40	10,371.5	
3	185	150.43	1,228.7	
4	193	153.21	1,202.1	
5	205	67.02	494.2	
6	221	141.60	969.8	
7	244	204.49	1,268.3	
8	258	192.53	1,128.7	
9	293	32.37	167.3	
10	300	81.96	413.3	
11	322	71.17	335.2	
12	358	13.77	58.4	
13	732	17.61	36.5	
14	775	13.17	25.8	
15	1,166	11.44	14.9	
16	10,380	75.00	10.9	Upper Marker

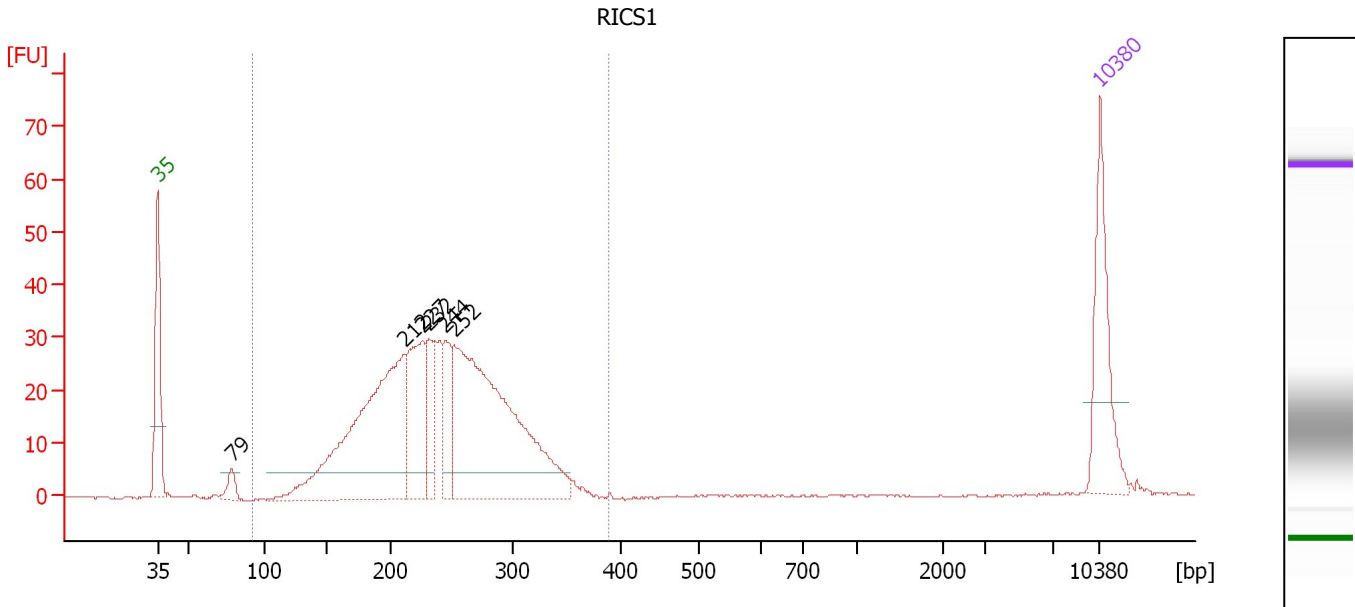
Region table for sample 1 : dripC

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
105	152	130	10,355.8	885.78	355.8	25	2.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : RICS1

Number of peaks found: 6 Corr. Area 1: 557.6
 Noise: 0.1

Peak table for sample 2 : RICS1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	19.12	367.1	
3	212	362.76	2,593.4	
4	227	125.20	836.2	
5	232	59.76	390.9	
6	244	56.93	352.9	
7	252	404.61	2,428.4	
8	10,380	75.00	10.9	Upper Marker

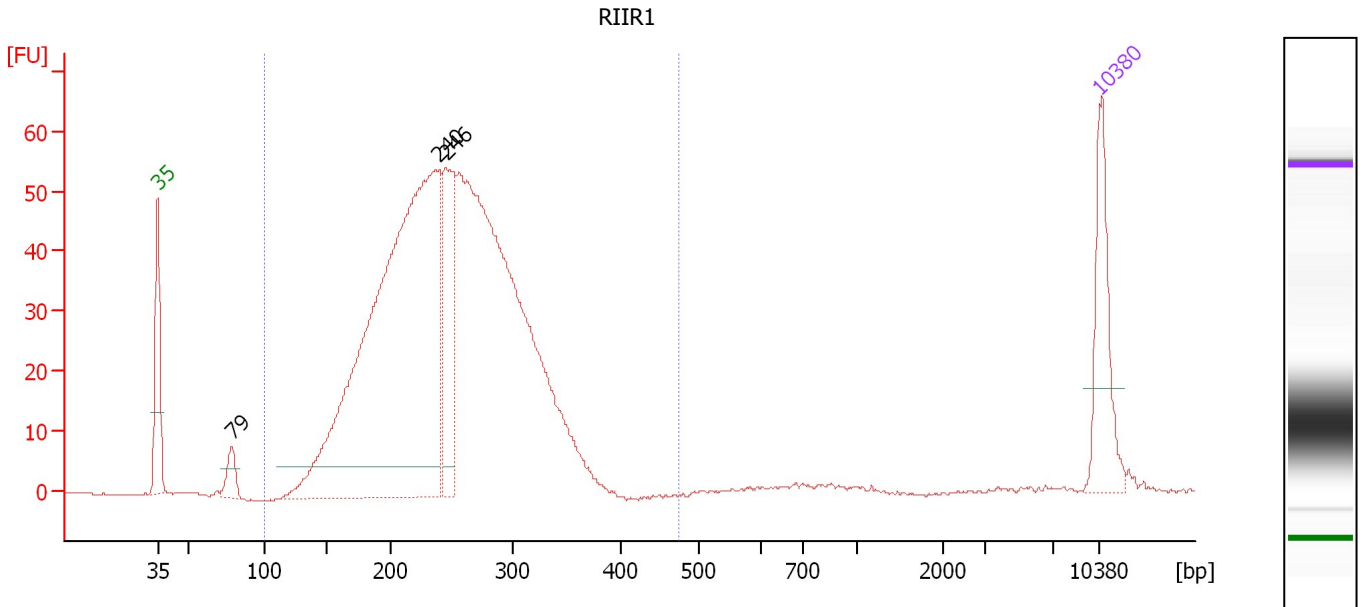
Region table for sample 2 : RICS1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
92	389	240	6,837.7	1,020.96	557.6	98	20.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RIIR1

Number of peaks found: 3 Corr. Area 1: 1,017.6
 Noise: 0.1

Peak table for sample 3 : RIIR1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	31.03	596.5	
3	240	961.94	6,061.7	
4	246	145.93	899.2	
5	10,380	75.00	10.9	Upper Marker

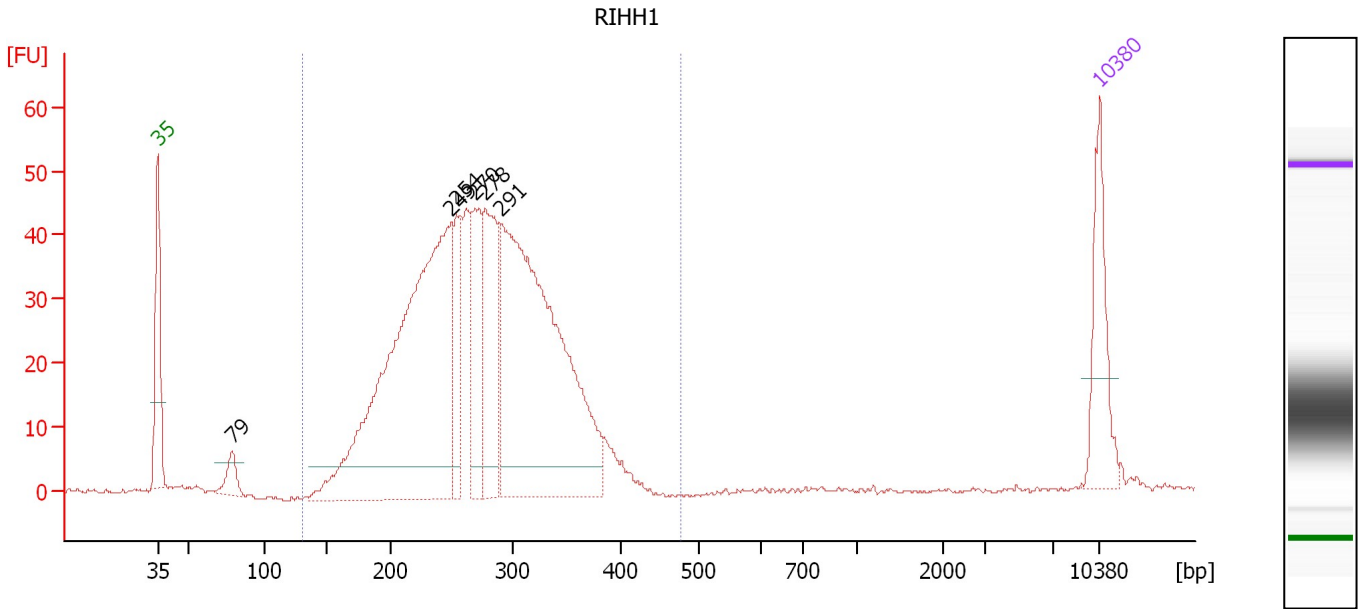
Region table for sample 3 : RIIR1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
101	475	248	12,784.6	1,982.56	1,017.6	98	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

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 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RIHH1

Number of peaks found: 6 Corr. Area 1: 838.7
 Noise: 0.4

Peak table for sample 4 : RIHH1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	32.09	613.1	
3	249	714.27	4,342.4	
4	254	96.72	576.4	
5	270	110.32	619.5	
6	278	169.89	927.2	
7	291	648.75	3,378.2	
8	10,380	75.00	10.9	Upper Marker

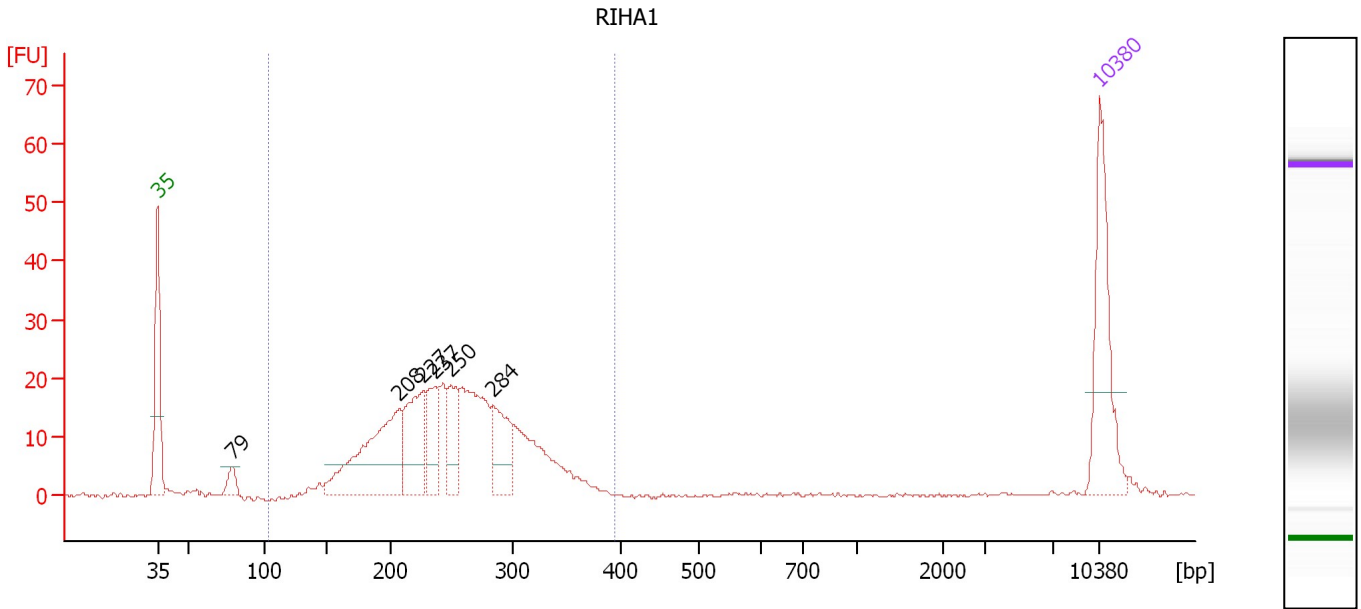
Region table for sample 4 : RIHH1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
130	477	274	10,518.8	1,811.93	838.7	98	19.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RIHA1

Number of peaks found: 6 Corr. Area 1: 343.5
 Noise: 0.2

Peak table for sample 5 : RIHA1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	16.55	318.5	
3	208	152.37	1,110.8	
4	227	81.88	546.4	
5	237	41.68	266.8	
6	250	43.18	261.4	
7	284	55.81	298.1	
8	10,380	75.00	10.9	Upper Marker

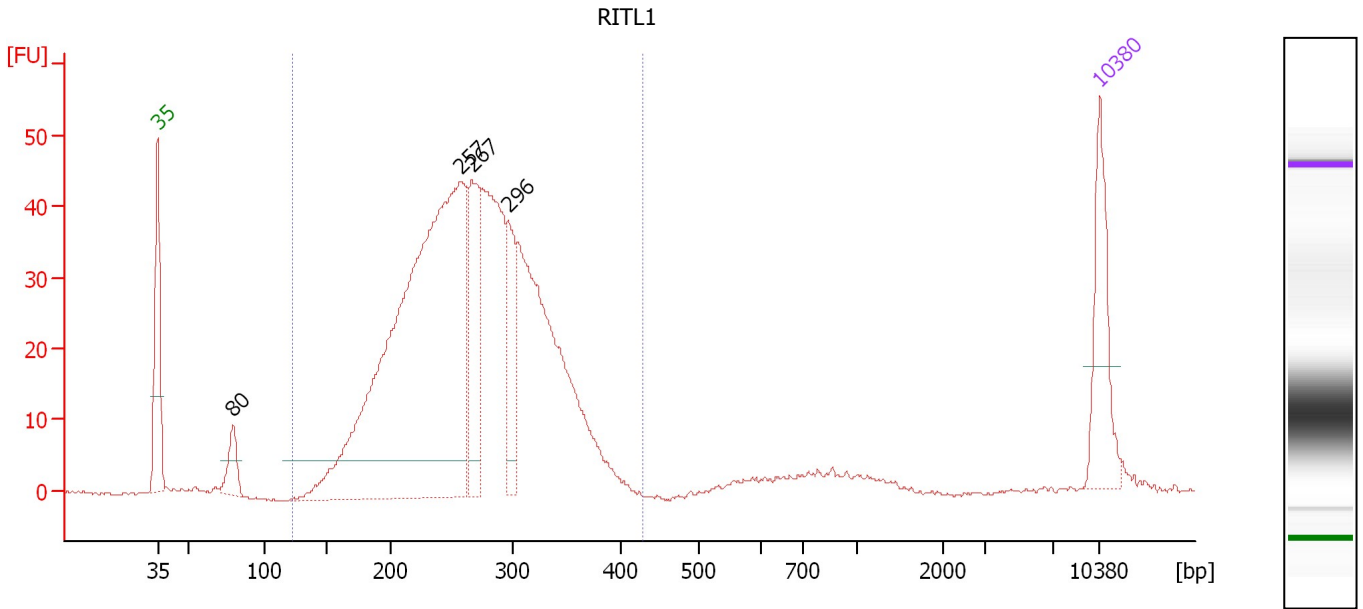
Region table for sample 5 : RIHA1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
103	394	251	4,116.6	647.94	343.5	95	19.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : RITL1

Number of peaks found: 4 Corr. Area 1: 795.3
 Noise: 0.2

Peak table for sample 6 : RITL1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	44.00	836.6	
3	257	929.05	5,472.0	
4	267	149.21	846.6	
5	296	80.68	412.3	
6	10,380	75.00	10.9	Upper Marker

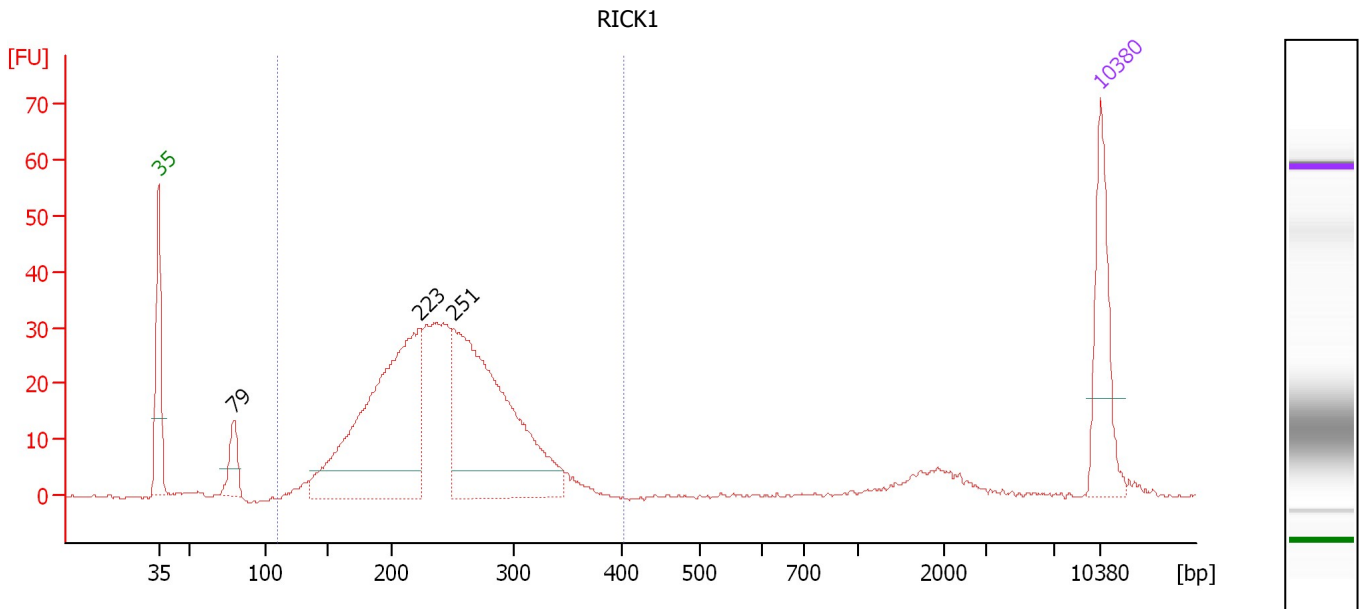
Region table for sample 6 : RITL1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
123	427	267	10,960.5	1,842.96	795.3	94	19.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : RICK1

Number of peaks found: 3 Corr. Area 1: 544.1
 Noise: 0.3

Peak table for sample 7 : RICK1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	42.16	804.6	
3	223	406.75	2,763.0	
4	251	390.83	2,363.9	
5	10,380	75.00	10.9	Upper Marker

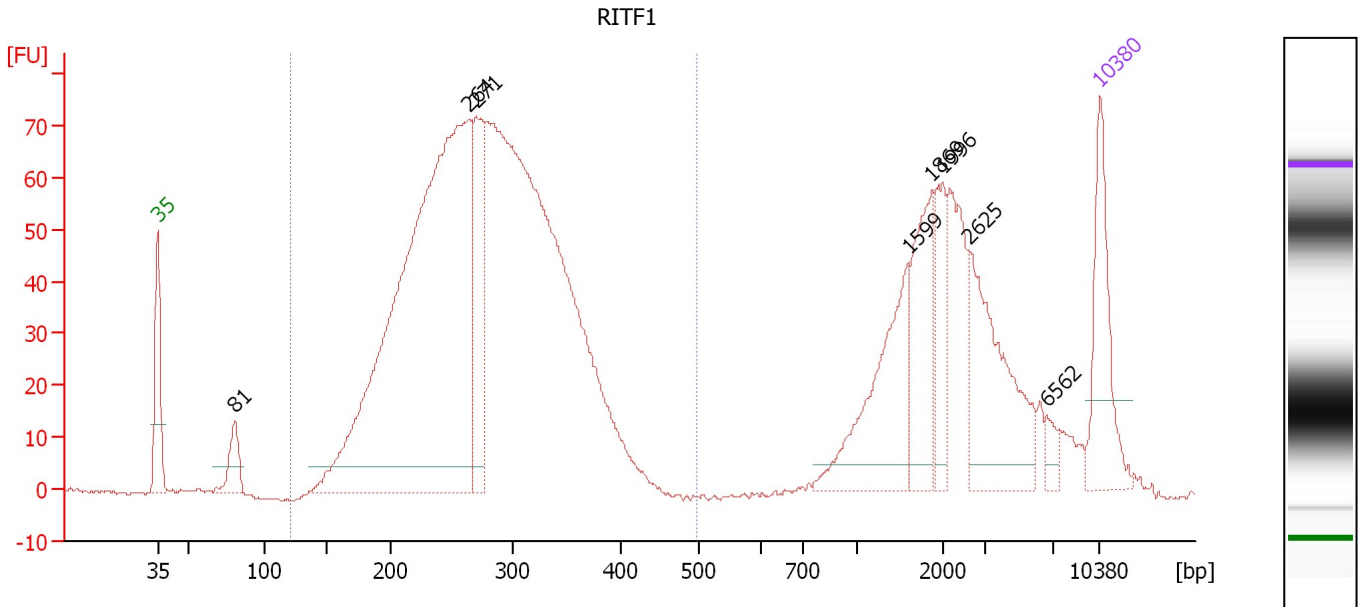
Region table for sample 7 : RICK1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
110	401	240	6,631.6	994.88	544.1	91	20.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RITF1

Number of peaks found: 8 Corr. Area 1: 1,403.0
 Noise: 0.4

Peak table for sample 8 : RITF1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	42.53	795.4	
3	264	943.65	5,410.1	
4	271	125.33	701.1	
5	1,599	125.42	118.8	
6	1,869	85.93	69.6	
7	1,996	51.47	39.1	
8	2,625	122.38	70.6	
9	6,562	11.00	2.5	
10	10,380	75.00	10.9	Upper Marker

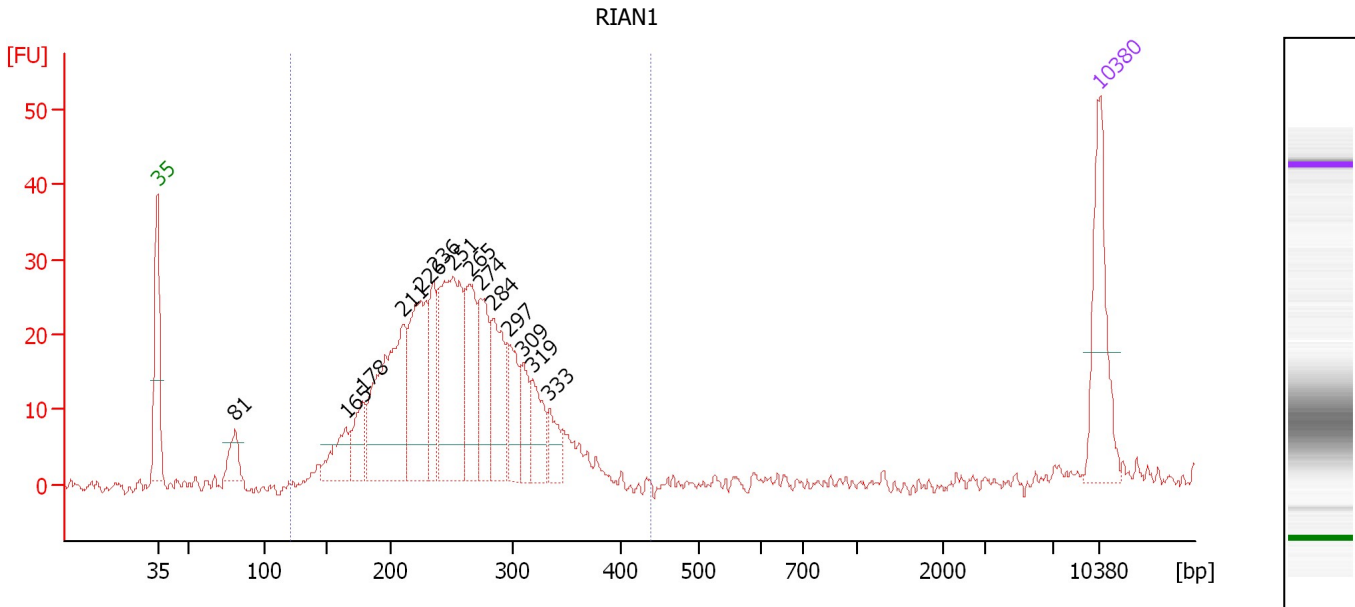
Region table for sample 8 : RITF1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
121	499	278	11,883.7	2,064.10	1,403.0	72	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RIAN1

Number of peaks found: 14 Corr. Area 1: 452.2
 Noise: 0.9

Peak table for sample 9 : RIAN1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	31.62	590.2	
3	165	48.24	443.3	
4	178	46.79	399.0	
5	211	200.19	1,440.6	
6	226	139.23	935.4	
7	236	69.34	445.8	
8	251	186.78	1,126.2	
9	265	89.75	513.0	
10	274	71.81	397.0	
11	284	79.26	422.5	
12	297	49.85	254.4	
13	309	36.74	180.0	
14	319	43.92	208.9	
15	333	25.49	115.8	
16	10,380	75.00	10.9	Upper Marker

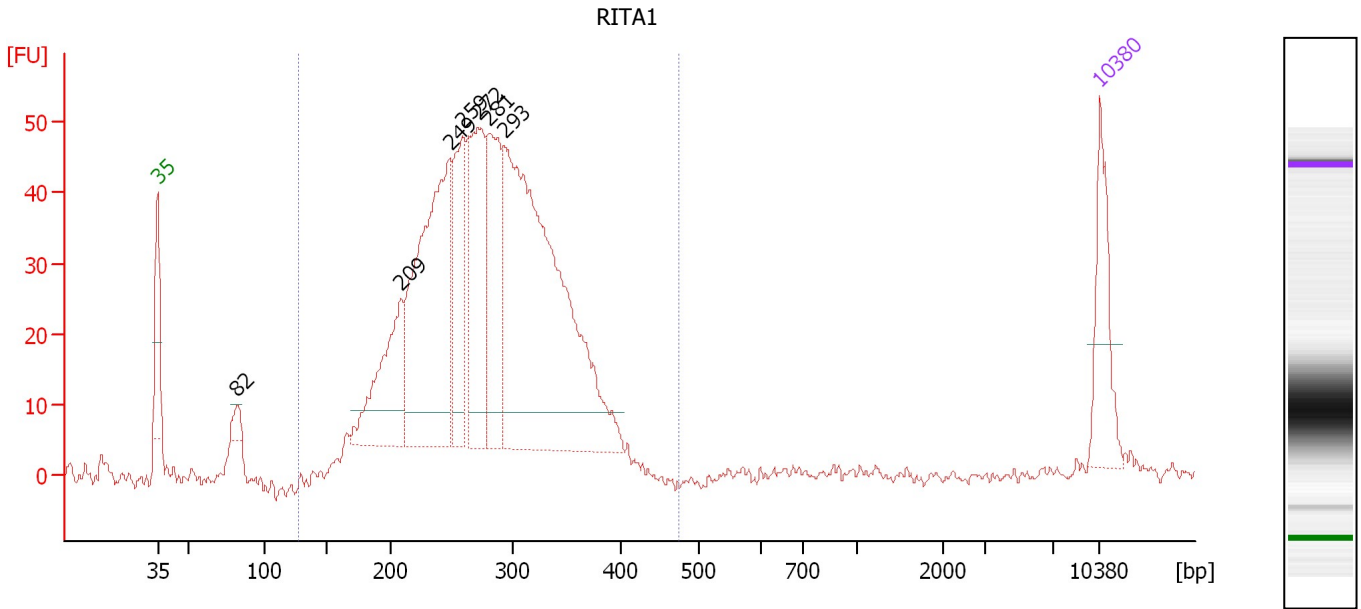
Region table for sample 9 : RIAN1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
122	438	253	7,123.5	1,134.92	452.2	97	19.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : RITA1

Number of peaks found: 7 Corr. Area 1: 760.5
 Noise: 1.0

Peak table for sample 10 : RITA1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	20.13	371.1	
3	209	178.36	1,292.9	
4	249	427.82	2,606.0	
5	259	161.89	946.6	
6	272	229.48	1,278.5	
7	281	185.28	998.6	
8	293	719.80	3,717.7	
9	10,380	75.00	10.9	Upper Marker

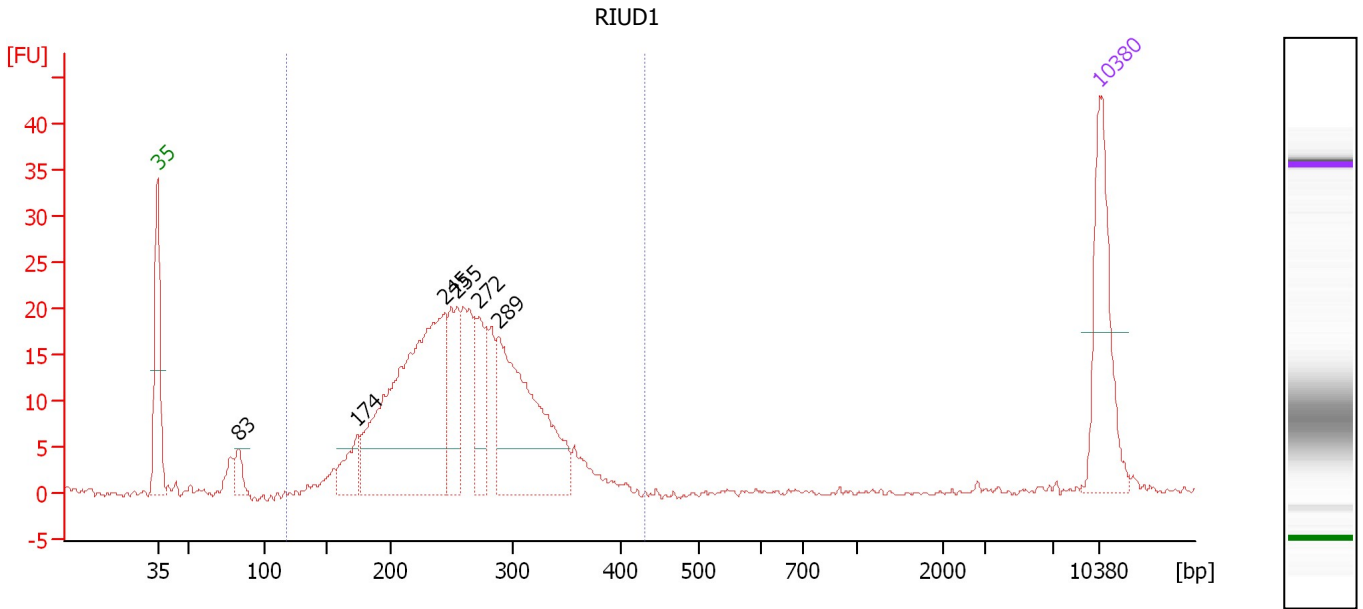
Region table for sample 10 : RITA1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
128	475	279	11,054.7	1,964.27	760.5	99	17.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 8/28/2013 3:12:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RIUD1

Number of peaks found: 6 Corr. Area 1: 338.5
 Noise: 0.2

Peak table for sample 11 : RIUD1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	17.76	324.1	
3	174	34.44	299.8	
4	245	323.67	2,005.4	
5	255	64.66	384.2	
6	272	54.63	304.1	
7	289	196.73	1,032.2	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : RIUD1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
118	431	259	5,147.8	837.75	338.5	94	19.5	Blue