

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

Created: 12/28/2015 3:10:41 PM  
Modified: 12/28/2015 3:51:59 PM

**Electrophoresis File Run Summary**

Instrument Information:

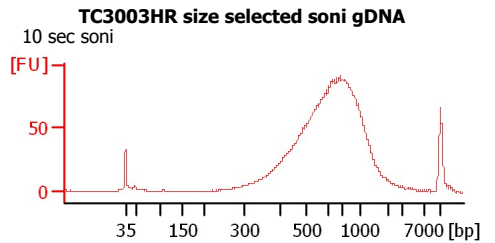
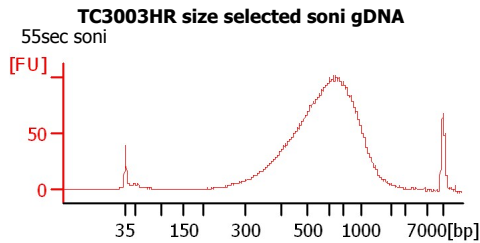
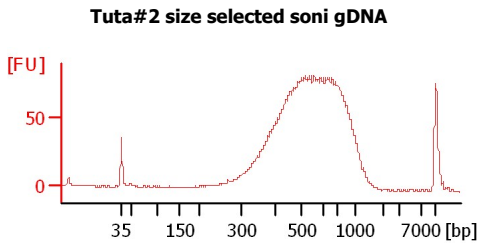
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:

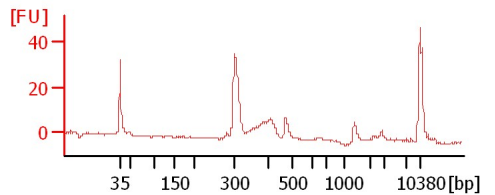
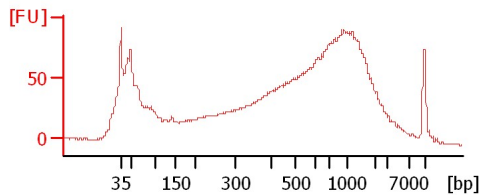
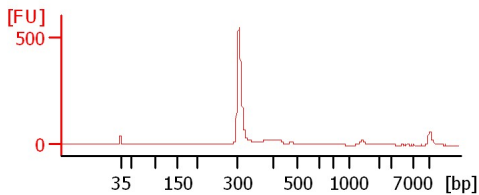
Chip Lot #:        
Reagent Kit Lot #:        
Chip Comments:



**BC394-11**

**TC3003HR soni 10 sec**

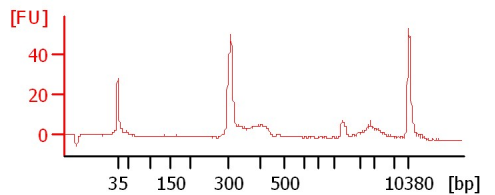
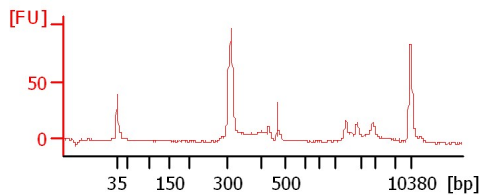
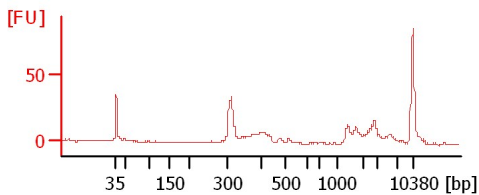
**BC383-9**



**BC383-7**

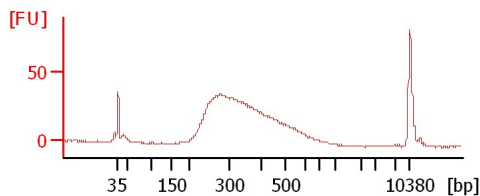
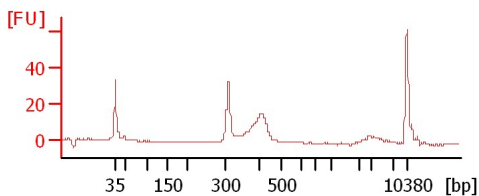
**BC383-5**

**BC383-3**



**BC383-1**

**RP1**



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Tuta#2 size selected soni gDNA		<input type="checkbox"/>	✓			
TC3003HR size selected soni gDNA 55sec soni		<input type="checkbox"/>	✓			
TC3003HR size selected soni gDNA 10 sec soni		<input type="checkbox"/>	✓			
BC394-11		<input type="checkbox"/>	✓			
TC3003HR soni 10 sec		<input type="checkbox"/>	✓			
BC383-9		<input type="checkbox"/>	✓			
BC383-7		<input type="checkbox"/>	✓			
BC383-5		<input type="checkbox"/>	✓			
BC383-3		<input type="checkbox"/>	✓			
BC383-1		<input type="checkbox"/>	✓			
RP1		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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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

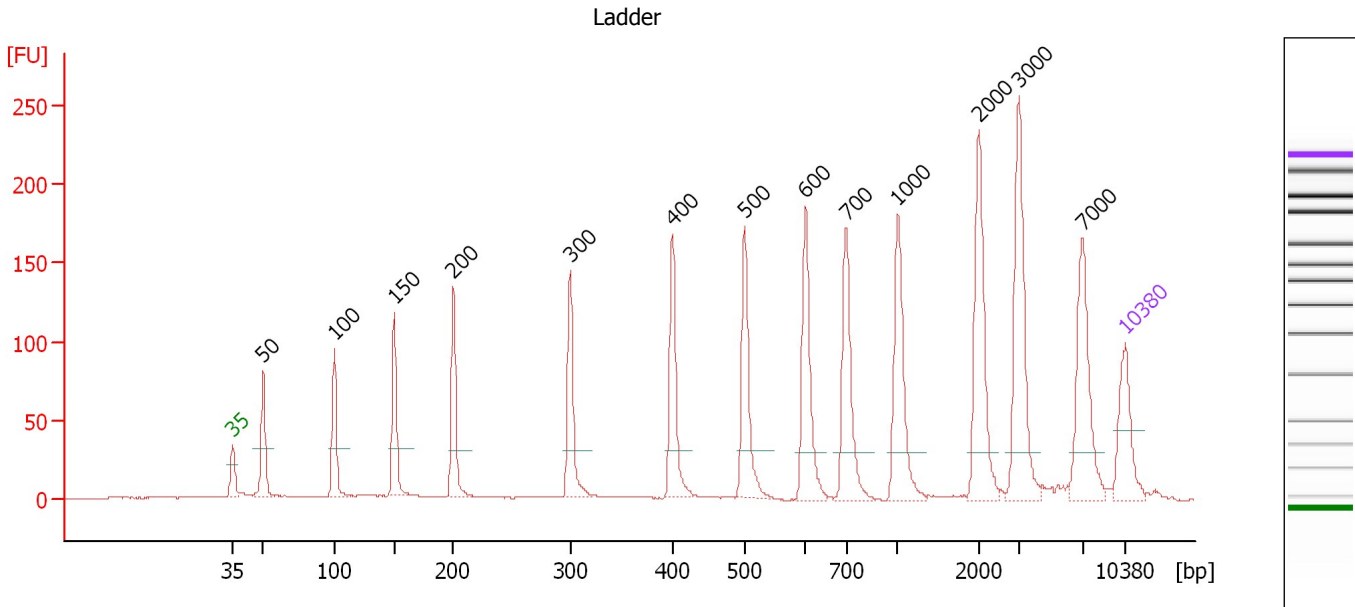
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

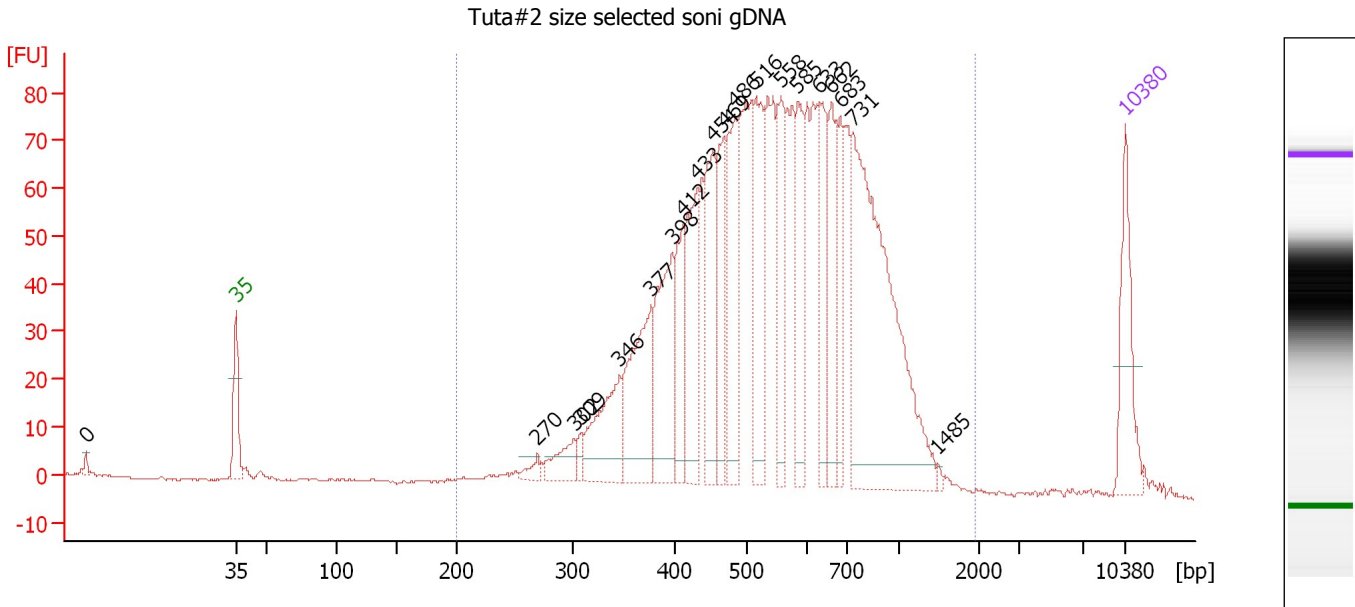
**Peak table for Ladder**

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	45.38
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.67
5	200	150.00	1,136.4	Ladder Peak	60.31
6	300	150.00	757.6	Ladder Peak	69.47
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.14
9	600	150.00	378.8	Ladder Peak	87.91
10	700	150.00	324.7	Ladder Peak	91.09
11	1,000	150.00	227.3	Ladder Peak	95.14
12	2,000	150.00	113.6	Ladder Peak	101.50
13	3,000	150.00	75.8	Ladder Peak	104.64
14	7,000	150.00	32.5	Ladder Peak	109.61
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Tuta#2 size selected soni gDNA**

Number of peaks found: 20                      Corr. Area 1: 1,895.0  
 Noise: 0.2

**Peak table for sample 1 : Tuta#2 size selected soni gDNA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		31.21
2	35	125.00	5,411.3	Lower Marker	43.00
3	270	14.87	83.5		66.71
4	302	42.71	214.5		69.61
5	309	14.49	71.0		70.19
6	346	120.06	525.2		73.17
7	377	169.17	679.2		75.65
8	398	156.79	596.3		77.33
9	412	84.26	310.0		78.13
10	433	135.70	474.7		79.34
11	454	132.73	443.1		80.52
12	469	106.34	343.3		81.40
13	486	143.47	447.7		82.32
14	516	140.36	412.0		83.92
15	558	100.58	273.3		85.89
16	585	101.66	263.3		87.19
17	633	93.87	224.7		88.95
18	662	93.08	213.1		89.88
19	683	73.95	164.1		90.55
20	731	456.55	945.7		91.51
21	1,485	3.39	3.5		98.23
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

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**Electropherogram Summary Continued ...**

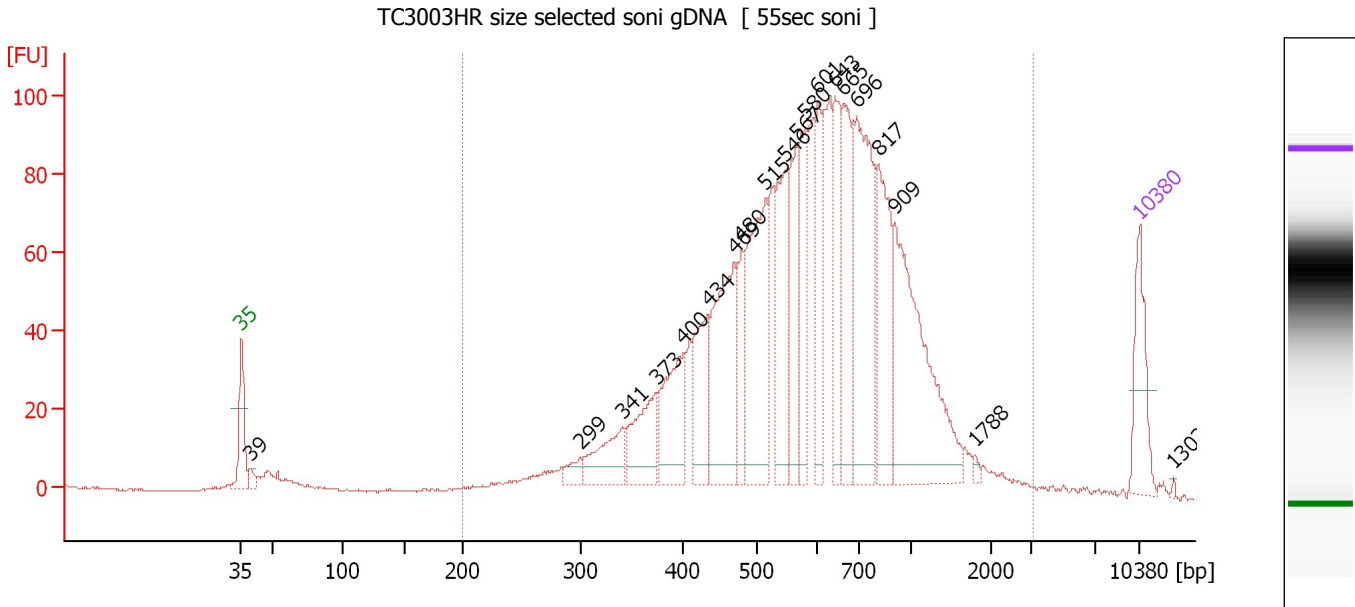
... Region table for sample 1 : Tuta#2 size selected soni gDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,936	582	1,895.0	9,055.5	3,023.97	99	35.0

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TC3003HR size selected soni gDNA**

Number of peaks found: 20                      Corr. Area 1: 2,018.3  
 Noise: 0.2

**Peak table for sample 2 : TC3003HR size selected soni gDNA**

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	39	16.71	646.1		43.67
3	299	25.74	130.3		69.40
4	341	92.06	409.4		72.72
5	373	112.76	457.4		75.34
6	400	147.30	557.9		77.46
7	434	123.28	430.7		79.37
8	469	241.15	778.2		81.41
9	480	69.65	220.0		81.99
10	515	253.84	746.7		83.86
11	546	151.58	420.3		85.36
12	567	122.92	328.8		86.31
13	580	128.46	335.3		86.98
14	601	103.46	260.9		87.93
15	643	121.53	286.6		89.26
16	665	148.68	338.8		89.97
17	696	297.25	646.9		90.97
18	817	169.47	314.2		92.67
19	909	316.22	526.8		93.92
20	1,788	4.94	4.2		100.16
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,035	0.00	0.0		115.66

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

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**Electropherogram Summary Continued ...**

... Region table for sample 2 : TC3003HR size selected soni gDNA

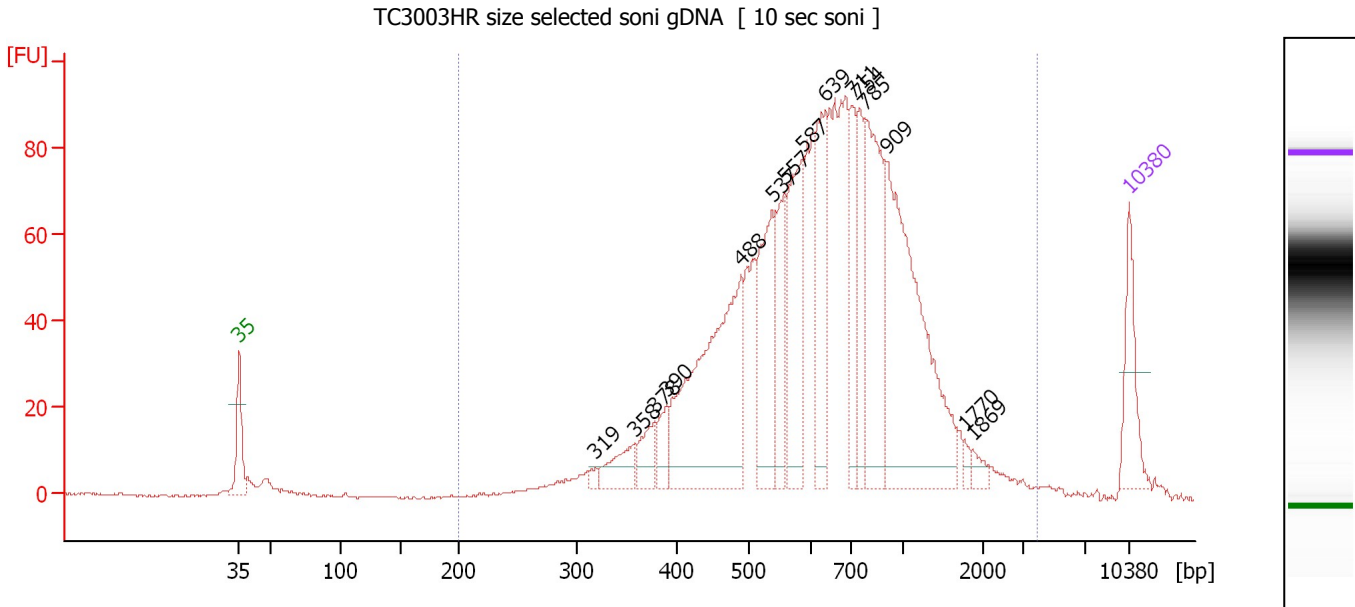
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	3,021	667	2,018.3	9,387.0	3,356.93	97	48.1



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : TC3003HR size selected soni gDNA**

Number of peaks found: 15                      Corr. Area 1: 1,695.6  
 Noise: 0.3

**Peak table for sample 3 : TC3003HR size selected soni gDNA**

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	319	11.09	52.6		71.02
3	358	63.94	270.8		74.08
4	378	54.70	219.4		75.67
5	390	48.18	187.3		76.64
6	488	480.96	1,493.0		82.47
7	537	200.70	566.5		84.90
8	557	131.21	356.9		85.86
9	587	203.65	525.7		87.29
10	639	175.62	416.7		89.14
11	711	109.55	233.6		91.23
12	754	105.36	211.7		91.82
13	785	254.93	492.0		92.24
14	909	463.84	773.0		93.92
15	1,770	9.25	7.9		100.04
16	1,869	15.27	12.4		100.67
17	10,380	75.00	10.9	Upper Marker	113.00

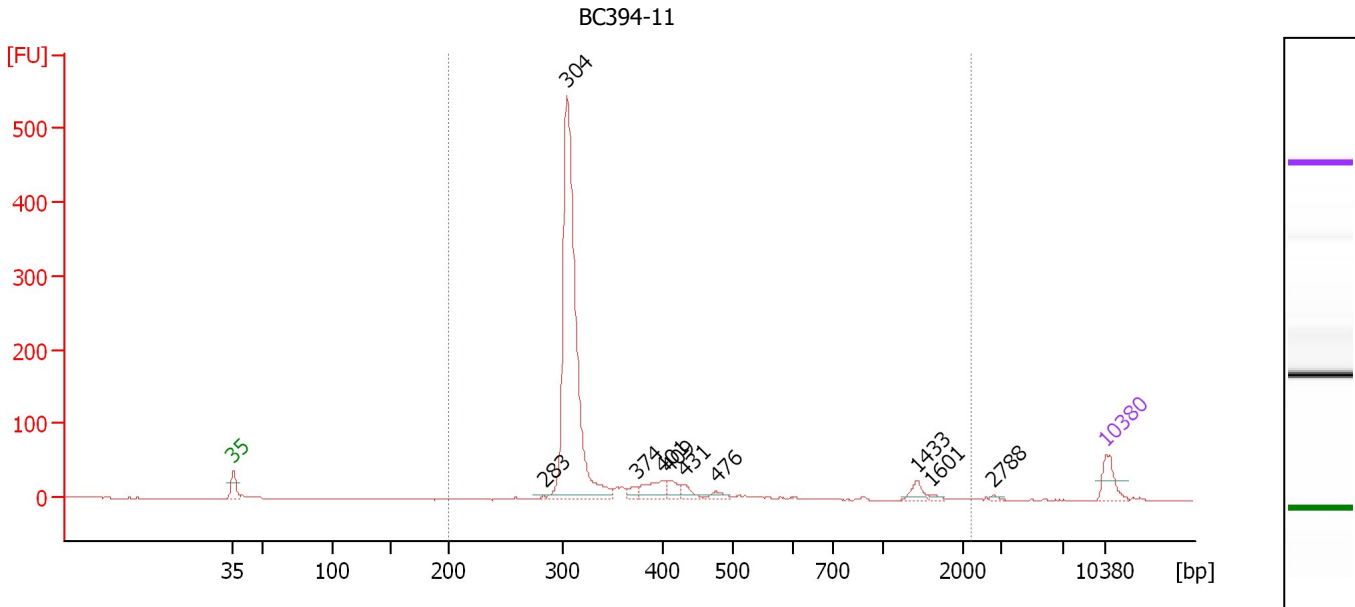
**Region table for sample 3 : TC3003HR size selected soni gDNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	3,874	733	1,695.6	8,064.5	3,154.87	98	50.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BC394-11**

Number of peaks found: 10                      Corr. Area 1: 1,231.4  
 Noise: 0.3

**Peak table for sample 4 : BC394-11**

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	283	7.38	39.5		67.90
3	304	1,825.05	9,097.7		69.78
4	374	37.02	150.1		75.35
5	401	97.47	368.0		77.53
6	409	54.19	200.8		77.96
7	431	38.71	136.2		79.20
8	476	25.09	79.9		81.77
9	1,433	37.08	39.2		97.90
10	1,601	9.38	8.9		98.97
11	2,788	6.50	3.5		103.97
12	10,380	75.00	10.9	Upper Marker	113.00

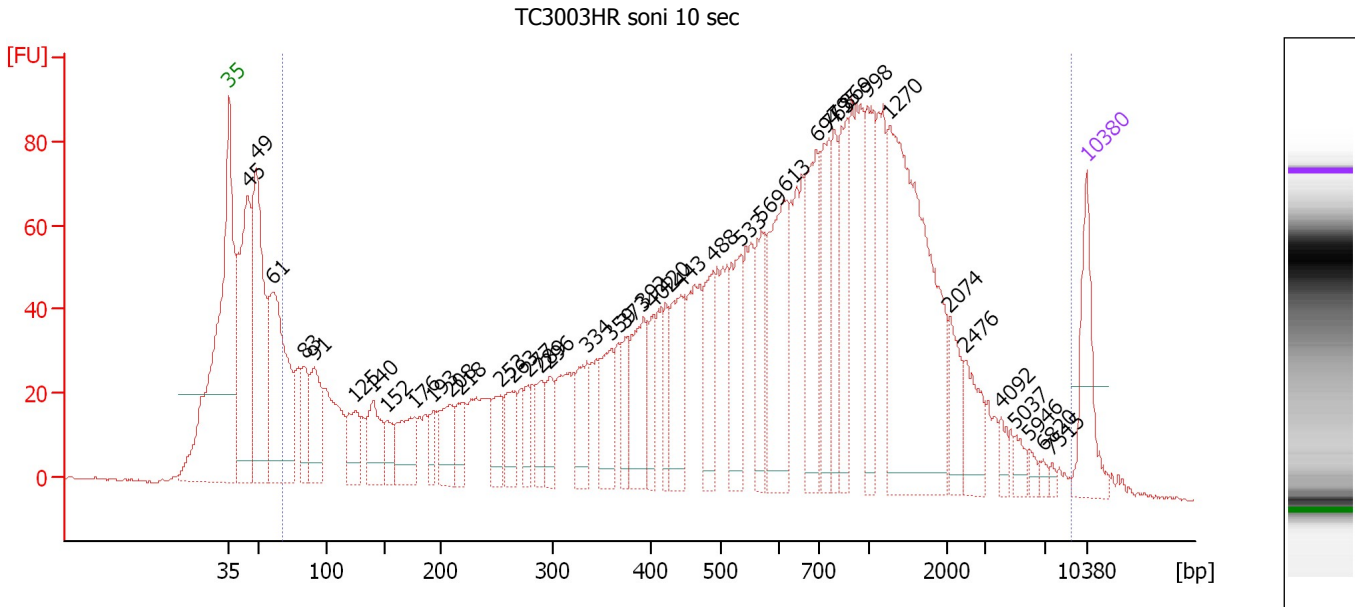
**Region table for sample 4 : BC394-11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,243	389	1,231.4	10,282.6	2,247.12	98	66.4

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : TC3003HR soni 10 sec**

Number of peaks found: 41                      Corr. Area 1: 3,148.7  
 Noise: 0.4

**Peak table for sample 5 : TC3003HR soni 10 sec**

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	45	376.41	12,792.3		44.52
3	49	370.54	11,466.1		45.22
4	61	349.35	8,728.4		46.57
5	83	76.33	1,387.9		49.09
6	91	122.58	2,037.6		49.96
7	125	78.23	948.0		53.31
8	140	92.48	999.2		54.75
9	152	38.88	386.9		55.88
10	176	90.15	777.6		58.05
11	193	30.20	237.1		59.66
12	208	71.87	524.4		61.01
13	218	39.18	272.2		61.97
14	253	48.75	291.7		65.19
15	263	62.43	359.4		66.10
16	277	36.08	197.3		67.36
17	289	44.38	232.8		68.45
18	296	50.18	256.5		69.15
19	334	65.14	295.4		72.19
20	359	76.89	324.4		74.19
21	373	39.72	161.2		75.32
22	392	107.22	414.6		76.80
23	402	42.70	160.8		77.59
24	420	44.88	161.9		78.59
25	443	109.34	374.1		79.89

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**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : TC3003HR soni 10 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	488	80.06	248.6		82.46
27	533	97.38	276.8		84.72
28	569	85.45	227.7		86.42
29	613	169.22	418.1		88.33
30	694	132.37	289.0		90.90
31	763	93.23	185.1		91.94
32	795	73.14	139.3		92.38
33	869	102.26	178.2		93.38
34	998	104.23	158.2		95.12
35	1,270	400.05	477.3		96.86
36	2,074	46.83	34.2		101.73
37	2,476	48.46	29.7		102.99
38	4,092	13.20	4.9		106.00
39	5,037	13.57	4.1		107.17
40	5,946	8.11	2.1		108.30
41	6,820	5.94	1.3		109.39
42	7,515	4.38	0.9		110.13
43	10,380	75.00	10.9	Upper Marker	113.00

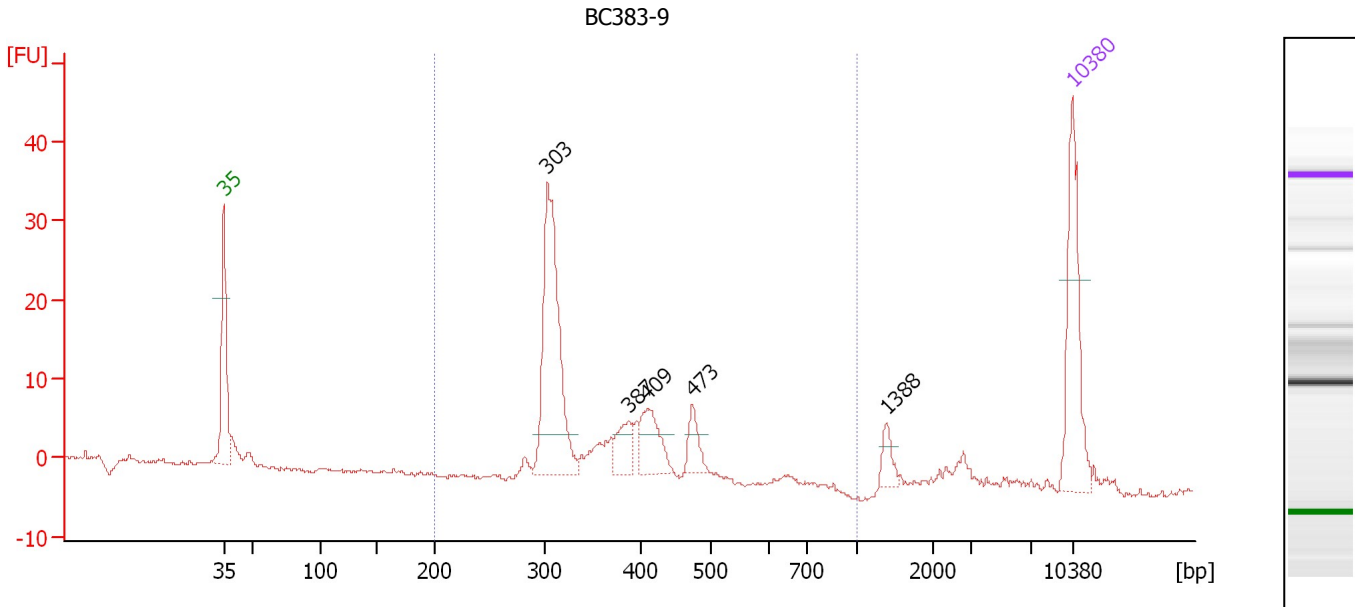
**Region table for sample 5 : TC3003HR soni 10 sec**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
68	9,090	908	3,148.7	23,924.8	4,497.76	86	100.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BC383-9**

Number of peaks found: 5                      Corr. Area 1: 142.0  
 Noise: 0.2

**Peak table for sample 6 : BC383-9**

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	303	201.32	1,007.5		69.69
3	387	27.73	108.6		76.42
4	409	42.57	157.8		77.96
5	473	22.38	71.7		81.61
6	1,388	13.30	14.5		97.61
7	10,380	75.00	10.9	Upper Marker	113.00

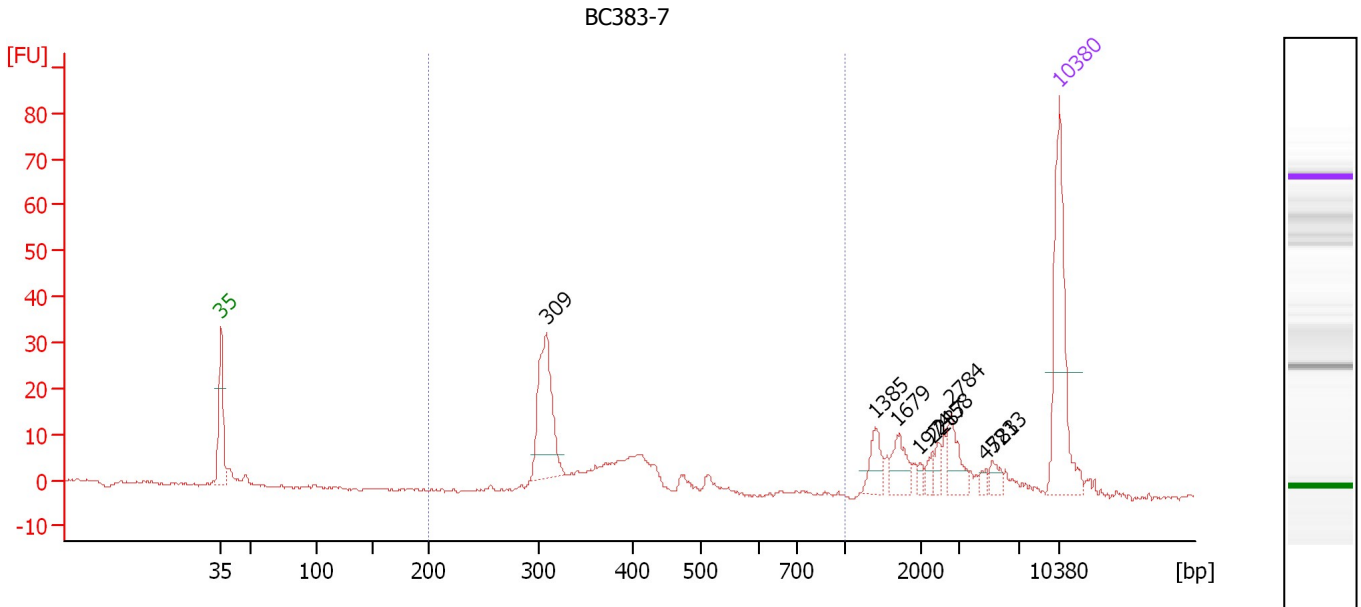
**Region table for sample 6 : BC383-9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	354	142.0	1,461.4	331.74	86	16.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : BC383-7**

Number of peaks found: 9                      Corr. Area 1: 129.6  
 Noise: 0.3

**Peak table for sample 7 : BC383-7**

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	309	92.67	454.9		70.16
3	1,385	17.60	19.3		97.59
4	1,679	18.47	16.7		99.46
5	1,974	3.72	2.9		101.33
6	2,287	5.33	3.5		102.40
7	2,458	6.78	4.2		102.94
8	2,784	18.81	10.2		103.96
9	4,783	3.65	1.2		106.85
10	5,213	7.38	2.1		107.39
11	10,380	75.00	10.9	Upper Marker	113.00

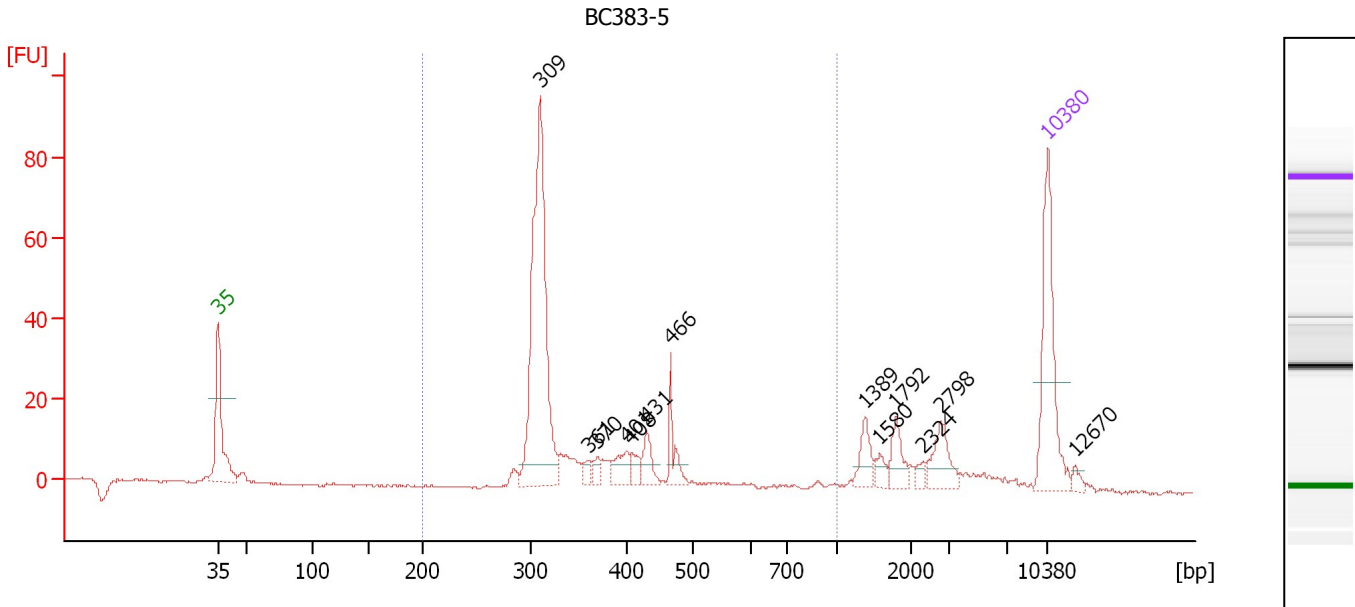
**Region table for sample 7 : BC383-7**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	351	129.6	833.6	188.96	54	15.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

Created: 12/28/2015 3:10:41 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : BC383-5**

Number of peaks found: 13                      Corr. Area 1: 289.9  
 Noise: 0.3

**Peak table for sample 8 : BC383-5**

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	309	263.00	1,288.1		70.22
3	361	7.34	30.8		74.36
4	370	7.83	32.1		75.03
5	401	19.04	72.0		77.51
6	408	10.53	39.1		77.91
7	431	17.76	62.4		79.21
8	466	21.51	70.0		81.19
9	1,389	18.38	20.1		97.61
10	1,580	8.67	8.3		98.83
11	1,792	17.36	14.7		100.18
12	2,324	4.66	3.0		102.52
13	2,798	25.20	13.6		104.00
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,670	0.00	0.0		115.29

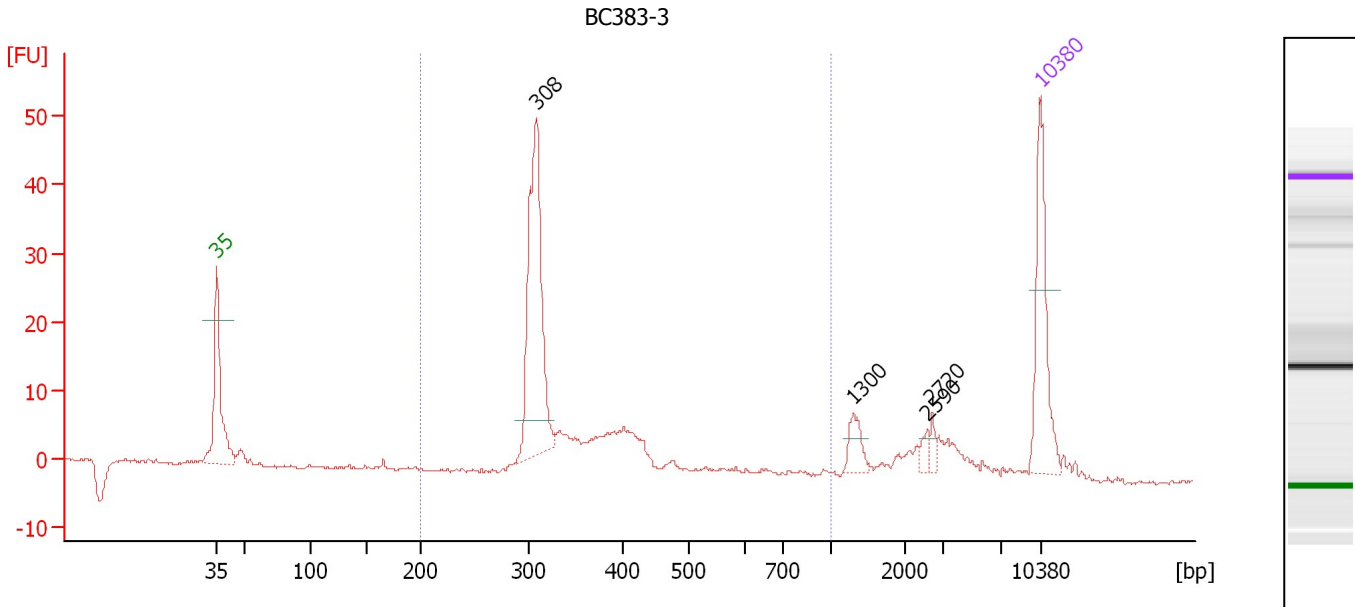
**Region table for sample 8 : BC383-5**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	354	289.9	1,827.9	407.47	72	24.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

Created: 12/28/2015 3:10:41 PM  
 Modified: 12/28/2015 3:51:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BC383-3**

Number of peaks found: 4                      Corr. Area 1: 162.3  
 Noise: 0.3

**Peak table for sample 9 : BC383-3**

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	308	225.37	1,107.3		70.14
3	1,300	19.19	22.4		97.05
4	2,590	6.74	3.9		103.35
5	2,720	6.07	3.4		103.76
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 9 : BC383-3**

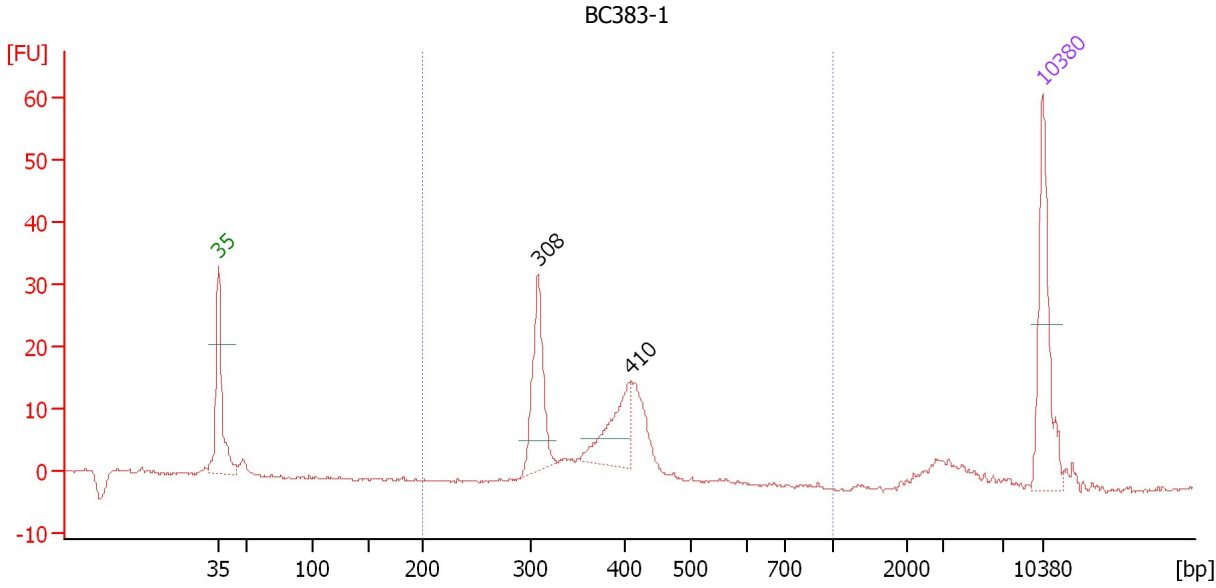
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	347	162.3	1,748.3	386.97	74	22.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BC383-1**

Number of peaks found: 2                      Corr. Area 1:                      145.1  
 Noise:    0.2

**Peak table for sample 10 : BC383-1**

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	308	100.00	491.3		70.14
3	410	67.02	247.7		78.02
4	10,380	75.00	10.9	Upper Marker	113.00

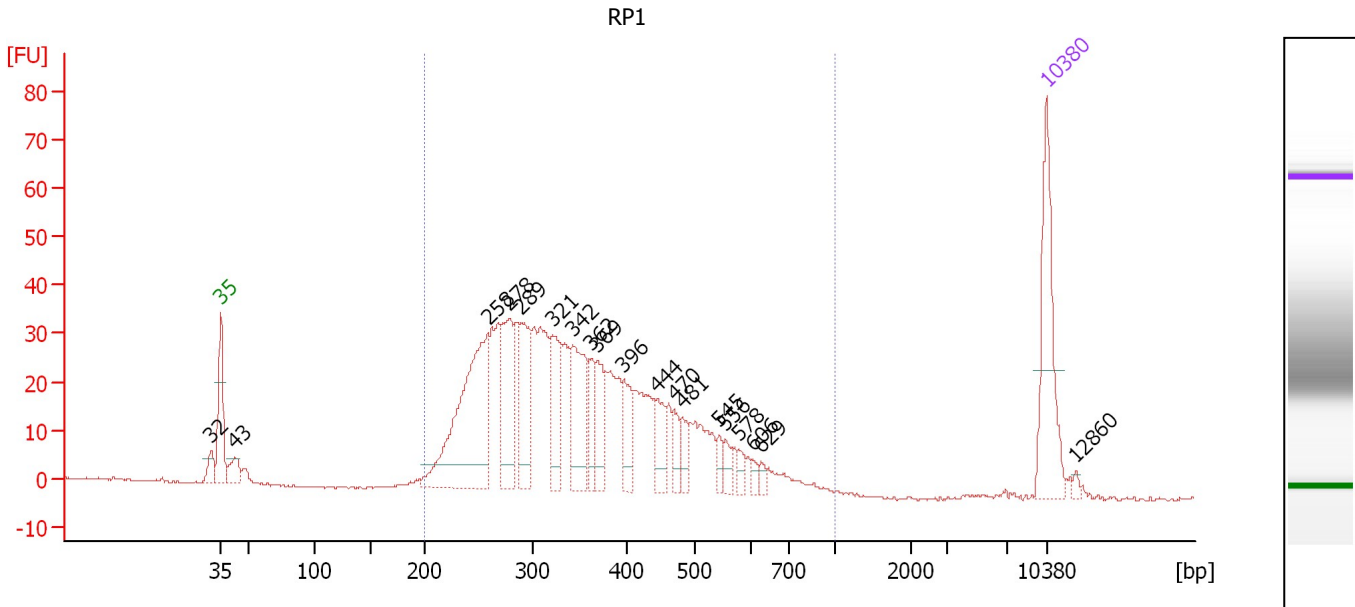
**Region table for sample 10 : BC383-1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	368	145.1	1,197.2	285.46	82	13.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : RP1**

Number of peaks found: 19                      Corr. Area 1: 834.6  
 Noise: 0.2

**Peak table for sample 11 : RP1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.19
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	24.28	862.0		44.22
4	258	224.58	1,317.9		65.64
5	278	83.72	455.6		67.49
6	289	87.08	456.1		68.49
7	321	62.57	295.2		71.15
8	342	85.63	379.3		72.83
9	362	30.25	126.5		74.45
10	369	37.67	154.8		74.95
11	396	36.91	141.1		77.16
12	444	28.40	96.9		79.97
13	470	17.09	55.1		81.41
14	481	16.75	52.7		82.09
15	545	10.14	28.2		85.30
16	556	11.21	30.6		85.80
17	578	7.89	20.7		86.88
18	606	5.56	13.9		88.10
19	629	5.45	13.1		88.82
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,860	0.00	0.0		115.49

**Region table for sample 11 : RP1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	361	834.6	5,690.3	1,218.35	96	30.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

Created: 12/28/2015 3:10:41 PM  
Modified: 12/28/2015 3:51:59 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-28\2015-12-28\_001.xad

Created: 12/28/2015 3:10:41 PM  
 Modified: 12/28/2015 3:51:59 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		12/28/2015 3:51:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-28\2015-12-28_001.xad)		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/28/2015 3:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1