

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ings\Bioanalyzer\2016-01-20\2016-01-20\_003\_BC838\_LigRxn.xad

Created: 1/20/2016 4:19:55 PM  
Modified: 1/20/2016 5:05:08 PM

**Electrophoresis File Run Summary**

Instrument Information:

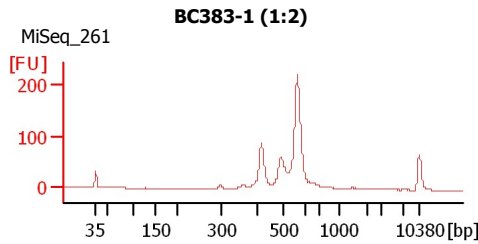
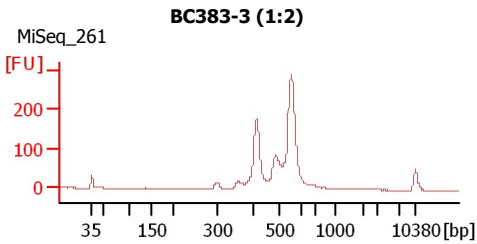
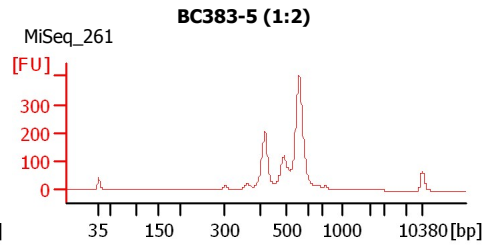
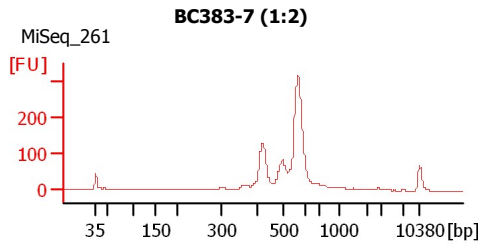
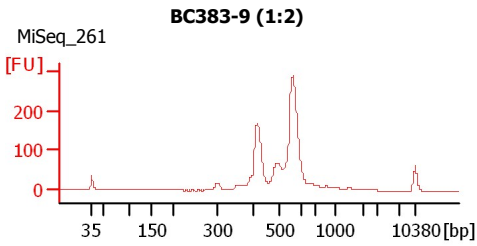
Instrument Name: DE13701086                      Firmware: C.01.069  
Serial#: DE13701086                              Type: G2938B

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:



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 Modified: 1/20/2016 5:05:08 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BC383-9 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-7 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-5 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-3 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-1 (1:2)	MiSeq_261	<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

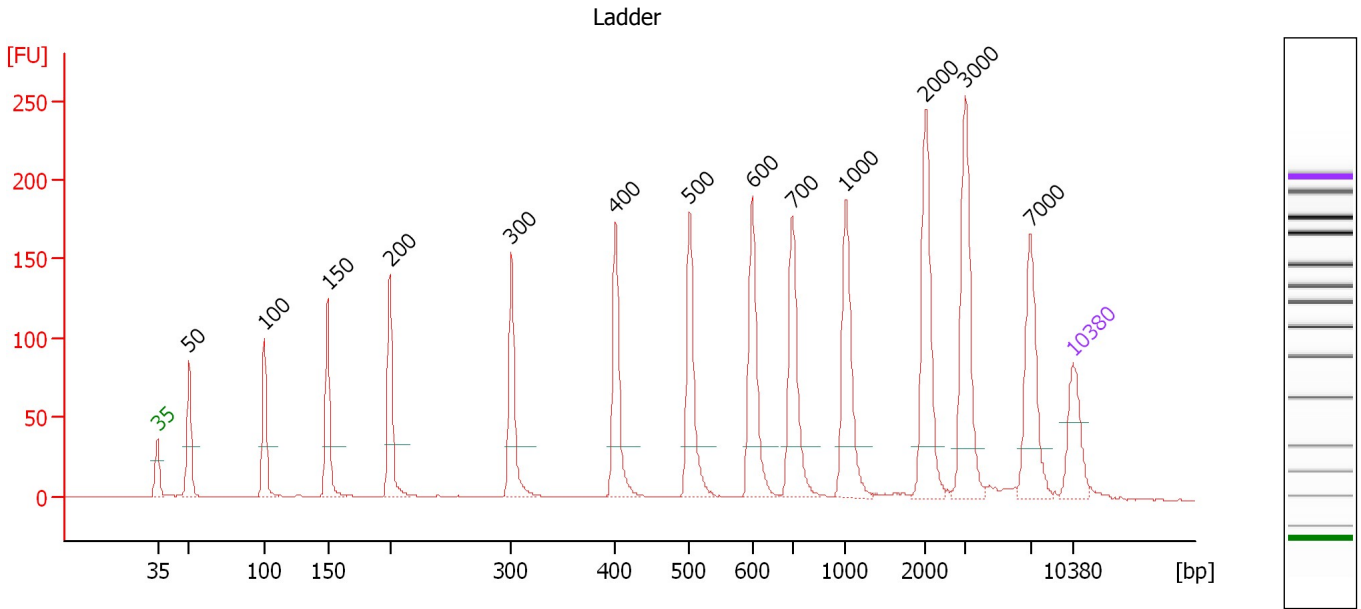
**Ladder**

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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 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

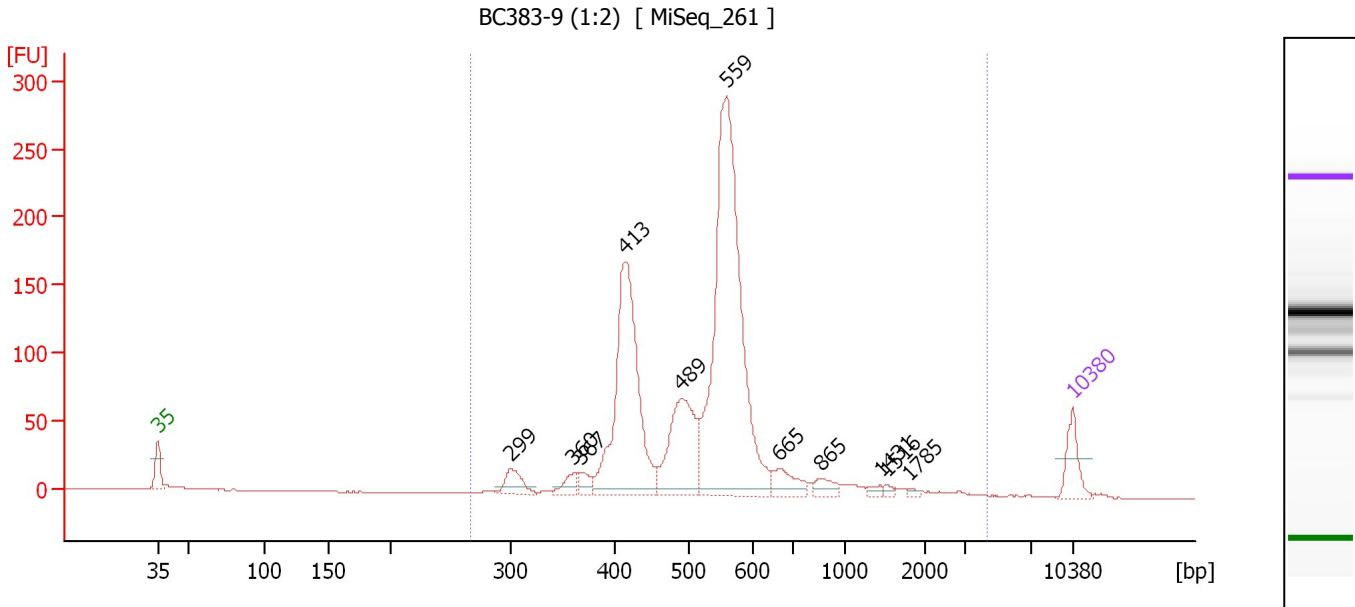
**Peak table for Ladder**

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.19
4	150	150.00	1,515.2	Ladder Peak	56.01
5	200	150.00	1,136.4	Ladder Peak	60.78
6	300	150.00	757.6	Ladder Peak	70.09
7	400	150.00	568.2	Ladder Peak	78.05
8	500	150.00	454.5	Ladder Peak	83.71
9	600	150.00	378.8	Ladder Peak	88.48
10	700	150.00	324.7	Ladder Peak	91.57
11	1,000	150.00	227.3	Ladder Peak	95.64
12	2,000	150.00	113.6	Ladder Peak	101.77
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

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 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BC383-9 (1:2)**

Number of peaks found: 11                      Corr. Area 1: 1,685.0  
 Noise: 0.2

**Peak table for sample 3 : BC383-9 (1:2)**

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	299	80.64	408.9		69.98
3	360	44.72	188.4		74.84
4	367	39.63	163.7		75.41
5	413	786.92	2,884.6		78.80
6	489	355.20	1,100.2		83.09
7	559	1,338.45	3,626.0		86.54
8	665	80.54	183.4		90.50
9	865	38.25	67.0		93.80
10	1,431	12.94	13.7		98.28
11	1,516	9.26	9.3		98.80
12	1,785	8.04	6.8		100.45
13	10,380	75.00	10.9	Upper Marker	113.00

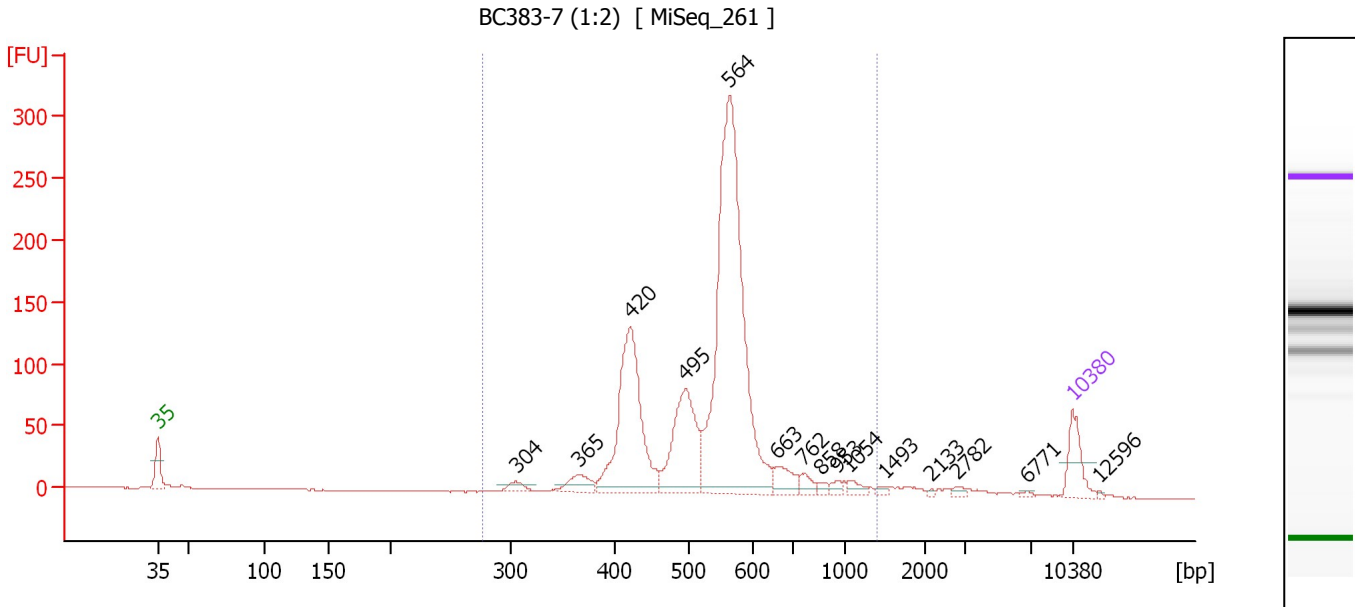
**Region table for sample 3 : BC383-9 (1:2)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
266	4,304	569	1,685.0	8,601.9	2,843.31	98	54.0

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Created: 1/20/2016 4:19:55 PM  
 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BC383-7 (1:2)**

Number of peaks found: 15                      Corr. Area 1: 1,590.2  
 Noise: 0.2

**Peak table for sample 4 : BC383-7 (1:2)**

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	304	25.81	128.6		70.42
3	365	58.04	240.8		75.28
4	420	519.10	1,872.7		79.18
5	495	319.88	979.6		83.41
6	564	1,198.11	3,216.6		86.78
7	663	59.19	135.2		90.44
8	762	29.00	57.7		92.41
9	858	12.07	21.3		93.71
10	953	14.98	23.8		95.01
11	1,054	20.41	29.4		95.97
12	1,493	7.93	8.1		98.66
13	2,133	3.39	2.4		102.18
14	2,782	8.89	4.8		104.15
15	6,771	4.93	1.1		109.49
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,596	0.00	0.0		115.12

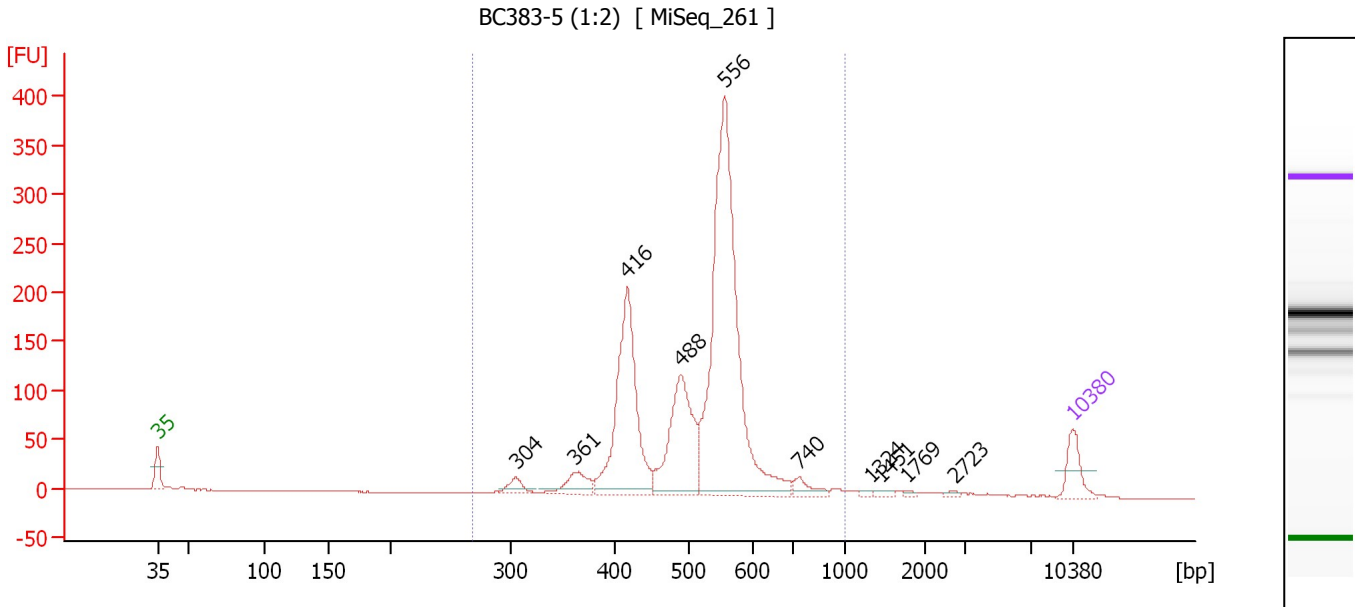
**Region table for sample 4 : BC383-7 (1:2)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
277	1,382	541	1,590.2	6,818.8	2,303.43	94	23.2

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Created: 1/20/2016 4:19:55 PM  
 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BC383-5 (1:2)**

Number of peaks found: 10                      Corr. Area 1: 1,911.8  
 Noise: 0.1

**Peak table for sample 5 : BC383-5 (1:2)**

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	304	46.15	229.8		70.43
3	361	88.18	370.3		74.92
4	416	652.36	2,373.6		78.98
5	488	433.71	1,346.7		83.03
6	556	1,356.59	3,694.8		86.40
7	740	43.60	89.3		92.11
8	1,324	6.73	7.7		97.62
9	1,451	11.71	12.2		98.40
10	1,769	5.82	5.0		100.36
11	2,723	8.12	4.5		103.97
12	10,380	75.00	10.9	Upper Marker	113.00

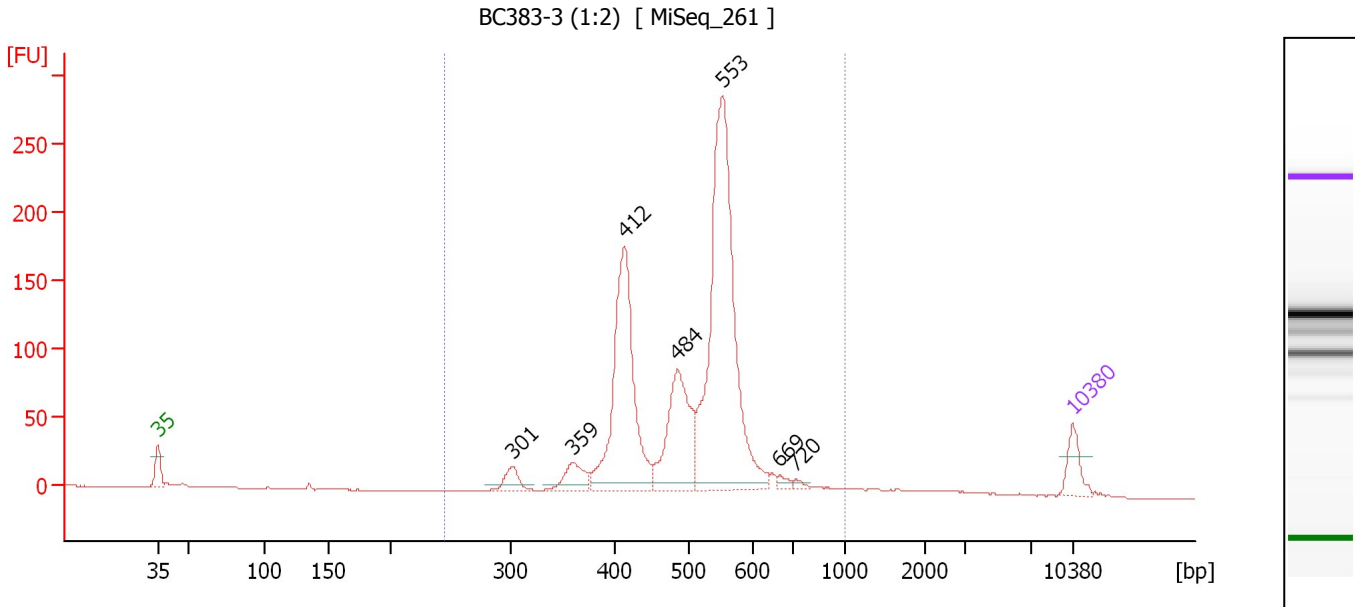
**Region table for sample 5 : BC383-5 (1:2)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
268	1,000	514	1,911.8	8,050.8	2,625.19	95	17.2

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Created: 1/20/2016 4:19:55 PM  
 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BC383-3 (1:2)**

Number of peaks found: 7                      Corr. Area 1: 1,501.5  
 Noise: 0.2

**Peak table for sample 6 : BC383-3 (1:2)**

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	301	80.47	405.6		70.14
3	359	108.20	456.6		74.79
4	412	852.76	3,134.0		78.74
5	484	458.17	1,434.7		82.80
6	553	1,398.84	3,830.1		86.26
7	669	19.12	43.3		90.61
8	720	14.02	29.5		91.84
9	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : BC383-3 (1:2)**

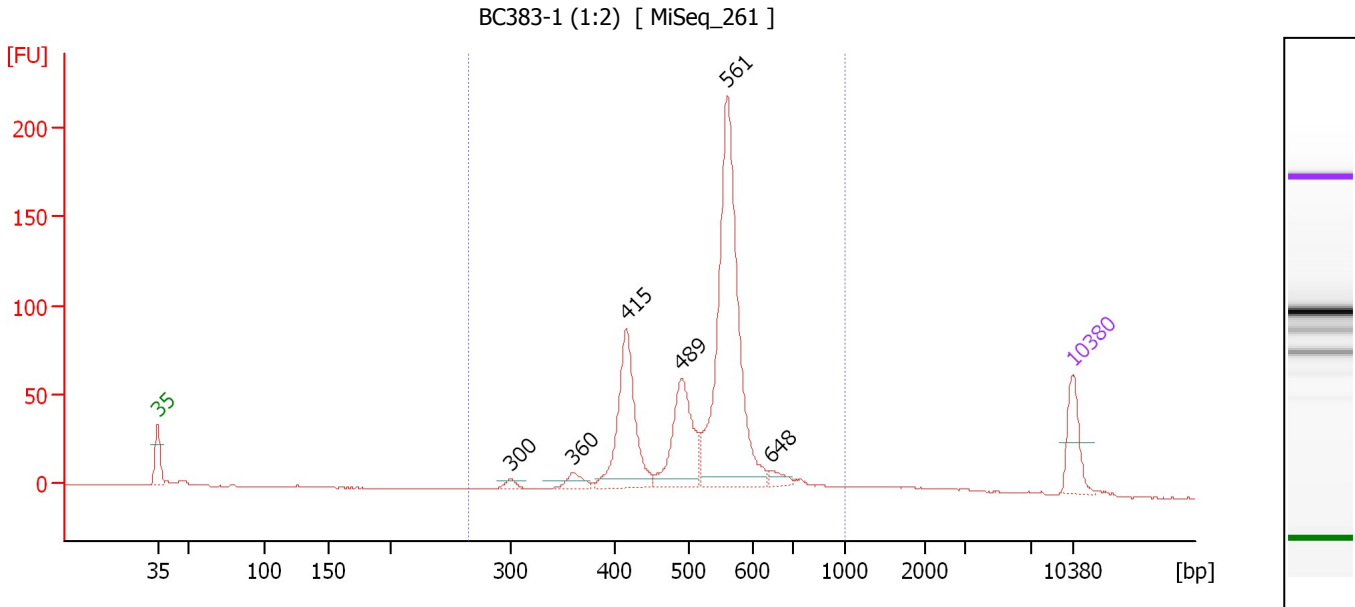
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
245	1,000	503	1,501.5	9,727.0	3,093.17	96	18.0



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 Modified: 1/20/2016 5:05:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : BC383-1 (1:2)**

Number of peaks found: 6                      Corr. Area 1: 875.2  
 Noise: 0.2

**Peak table for sample 7 : BC383-1 (1:2)**

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	300	15.45	78.1		70.07
3	360	32.97	138.9		74.84
4	415	292.04	1,065.9		78.90
5	489	230.49	714.5		83.07
6	561	724.98	1,956.8		86.64
7	648	21.45	50.2		89.95
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : BC383-1 (1:2)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
265	1,000	525	875.2	4,352.9	1,449.37	93	17.2

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Created: 1/20/2016 4:19:55 PM  
Modified: 1/20/2016 5:05:08 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay Created: 1/20/2016 4:19:55 PM  
 Data Path: C:\...ings\Bioanalyzer\2016-01-20\2016-01-20\_003\_BC838\_LigRxn.xad Modified: 1/20/2016 5:05:08 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		1/20/2016 5:01:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad)		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1