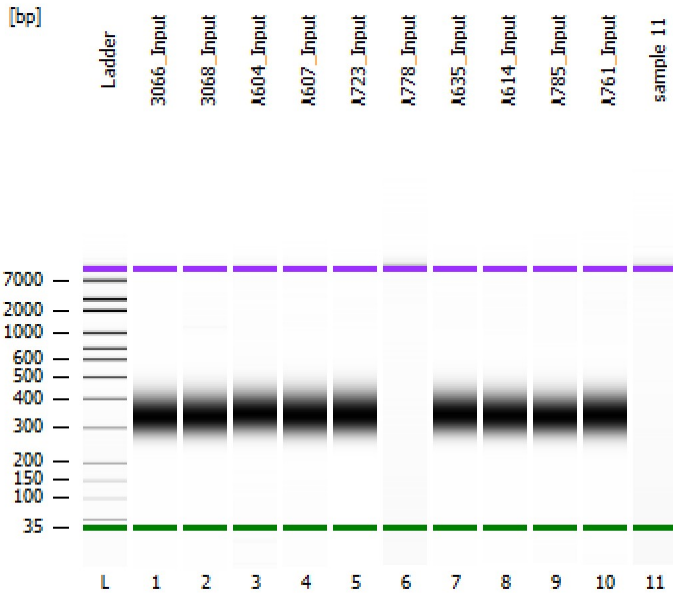


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
Modified: 11/20/2019 12:54:12 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

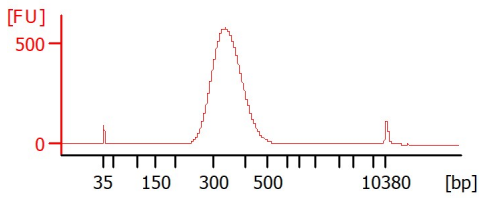
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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

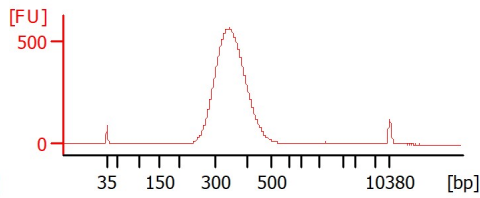
Chip Information:

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

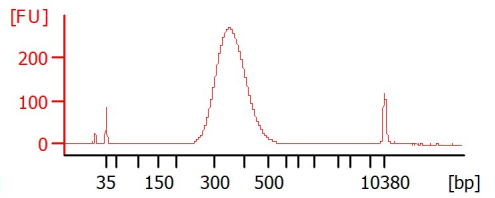
3066\_Input



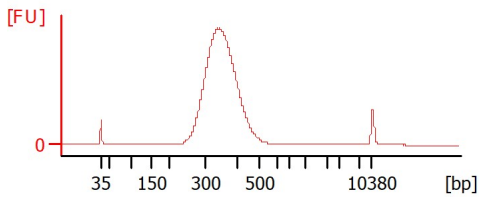
3068\_Input



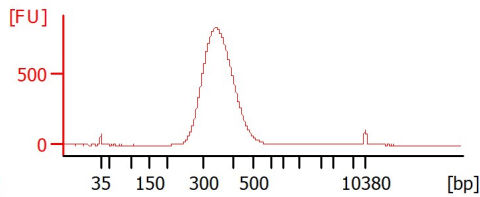
A604\_Input



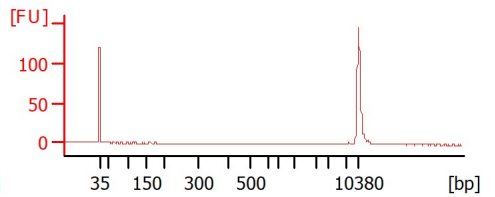
A607\_Input



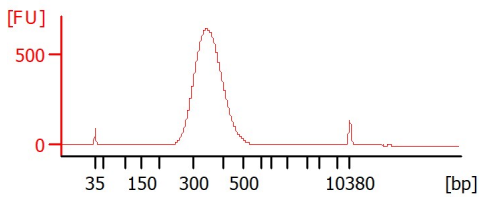
A723\_Input



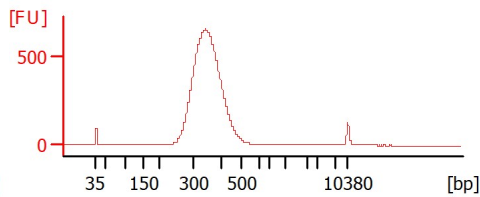
A778\_Input



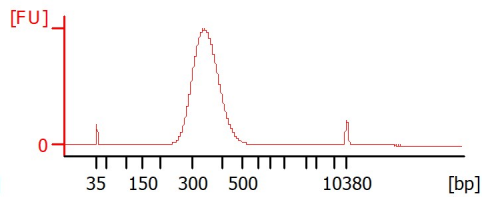
A635\_Input



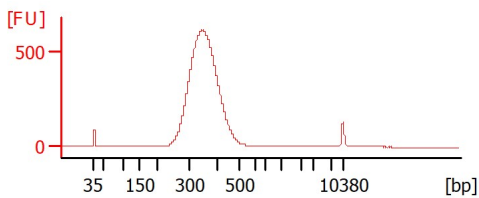
A614\_Input



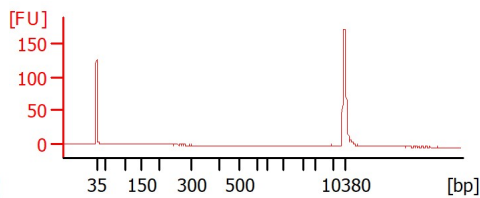
A785\_Input



A761\_Input



sample 11



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3066_Input		<input type="checkbox"/>	✓			
3068_Input		<input type="checkbox"/>	✓			
A604_Input		<input type="checkbox"/>	✓			
A607_Input		<input type="checkbox"/>	✓			
A723_Input		<input type="checkbox"/>	✓			
A778_Input		<input type="checkbox"/>	✓			
A635_Input		<input type="checkbox"/>	✓			
A614_Input		<input type="checkbox"/>	✓			
A785_Input		<input type="checkbox"/>	✓			
A761_Input		<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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 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

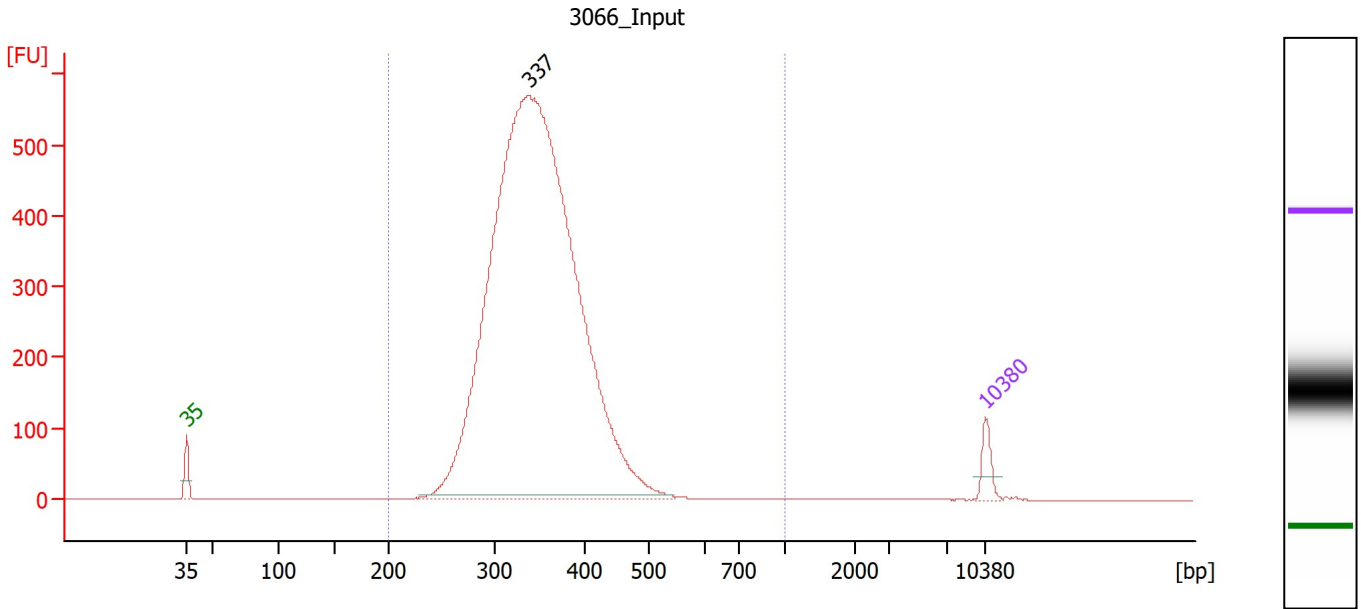
**Ladder**

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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary**



**Overall Results for sample 1 : 3066 Input**

Number of peaks found: 1                      Corr. Area 1: 7,119.9  
 Noise: 0.3

**Peak table for sample 1 : 3066 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	8,435.80	37,876.1	
3	10,380	75.00	10.9	Upper Marker

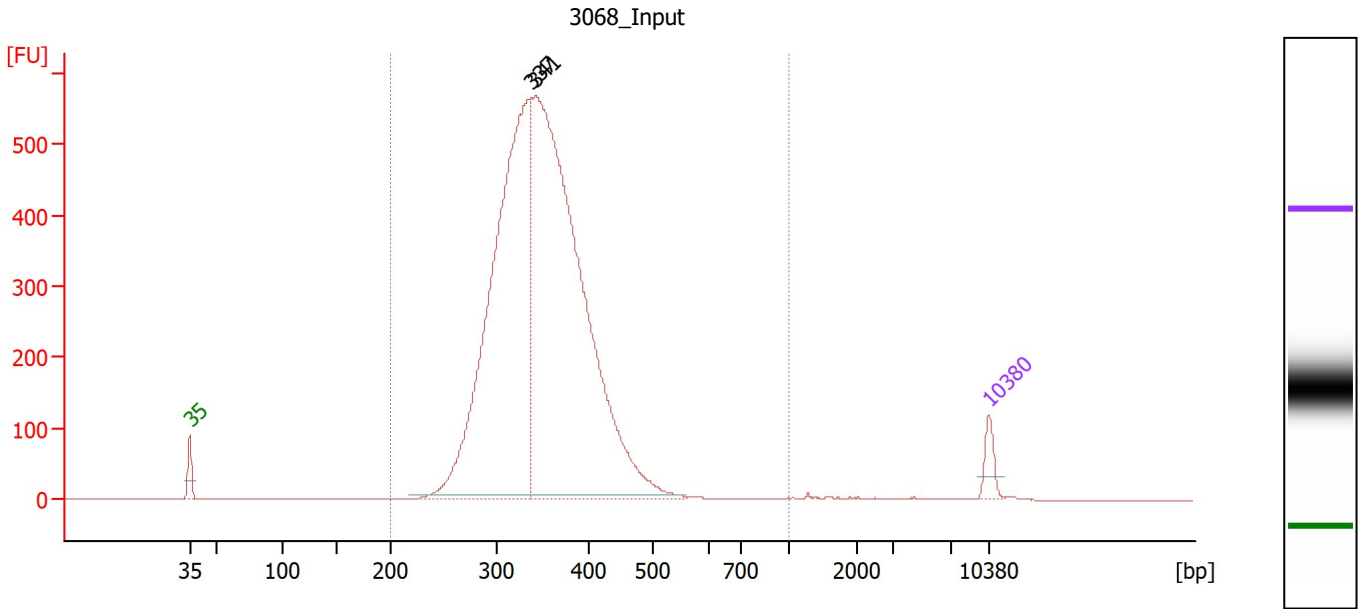
**Region table for sample 1 : 3066 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7,119.9	99	349	14.9	8,394.20	37,276.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3068 Input**

Number of peaks found: 2                      Corr. Area 1: 7,173.7  
 Noise: 0.3

**Peak table for sample 2 : 3068 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	3,596.55	16,188.5	
3	341	4,593.36	20,390.9	
4	10,380	75.00	10.9	Upper Marker

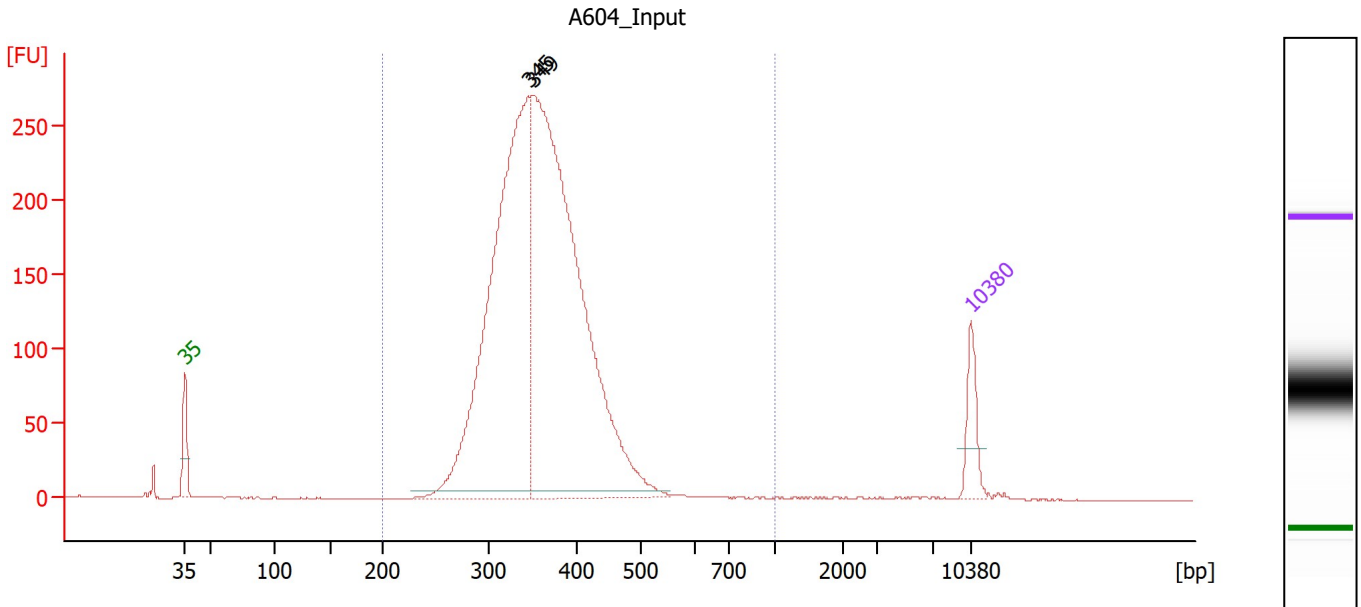
**Region table for sample 2 : 3068 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7,173.7	99	350	15.6	8,201.07	36,360.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A604 Input**

Number of peaks found: 2                      Corr. Area 1: 3,360.6  
 Noise: 0.2

**Peak table for sample 3 : A604 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	345	1,600.79	7,027.9	
3	349	2,019.33	8,759.4	
4	10,380	75.00	10.9	Upper Marker

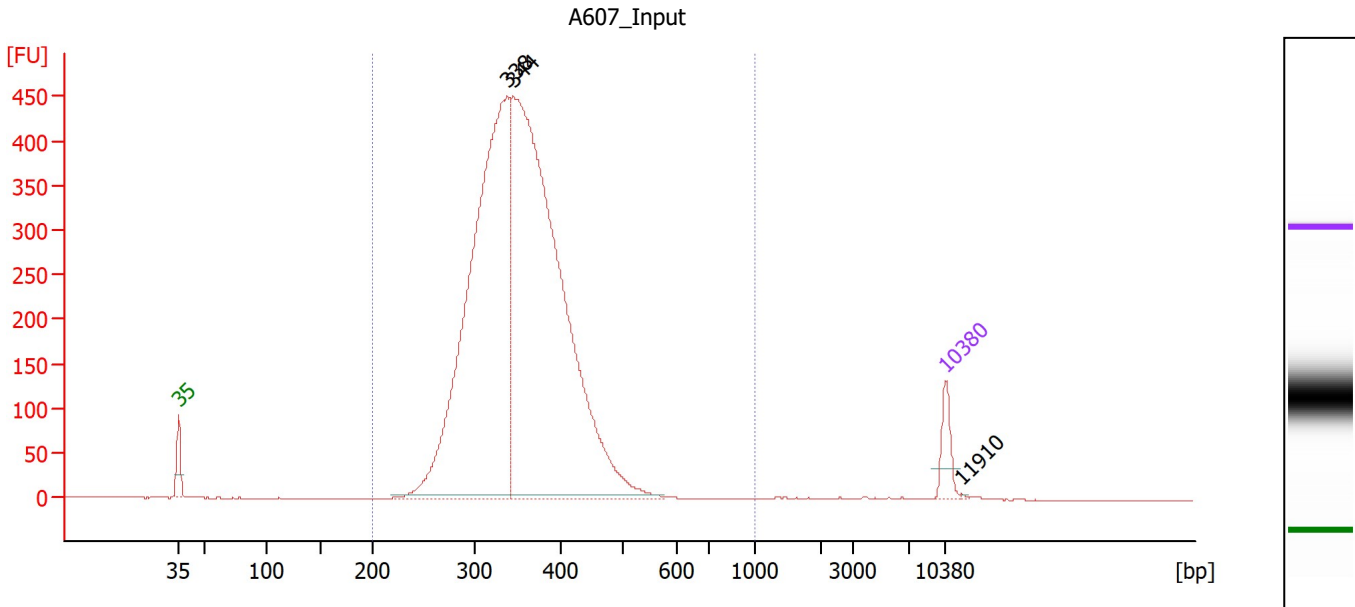
**Region table for sample 3 : A604 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,360.6	98	361	15.2	3,671.20	15,784.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : A607 Input**

Number of peaks found: 3                      Corr. Area 1: 5,909.1  
 Noise: 0.3

**Peak table for sample 4 : A607 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	338	2,558.67	11,482.8	
3	344	3,227.51	14,226.8	
4	10,380	75.00	10.9	Upper Marker
5	11,910	0.00	0.0	

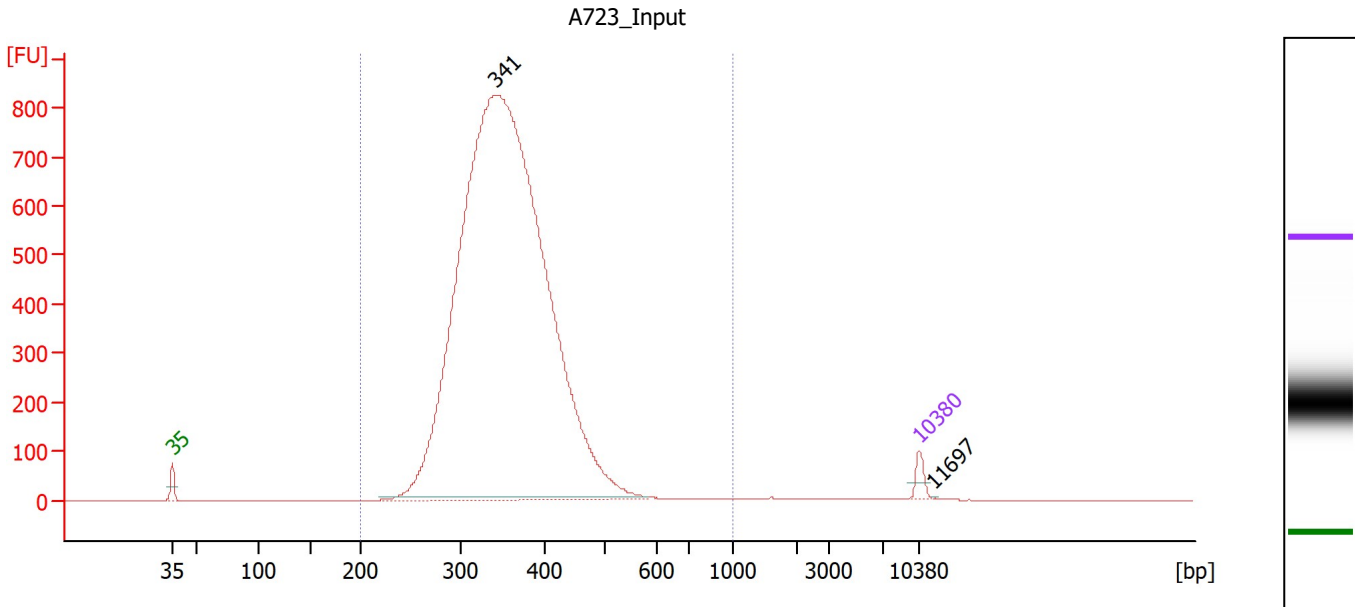
**Region table for sample 4 : A607 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,909.1	99	354	15.0	5,733.38	25,170.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A723 Input**

Number of peaks found: 2                      Corr. Area 1: 10,888.2  
 Noise: 0.2

**Peak table for sample 5 : A723 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	341	15,583.88	69,185.0	
3	10,380	75.00	10.9	Upper Marker
4	11,697	0.00	0.0	

**Region table for sample 5 : A723 Input**

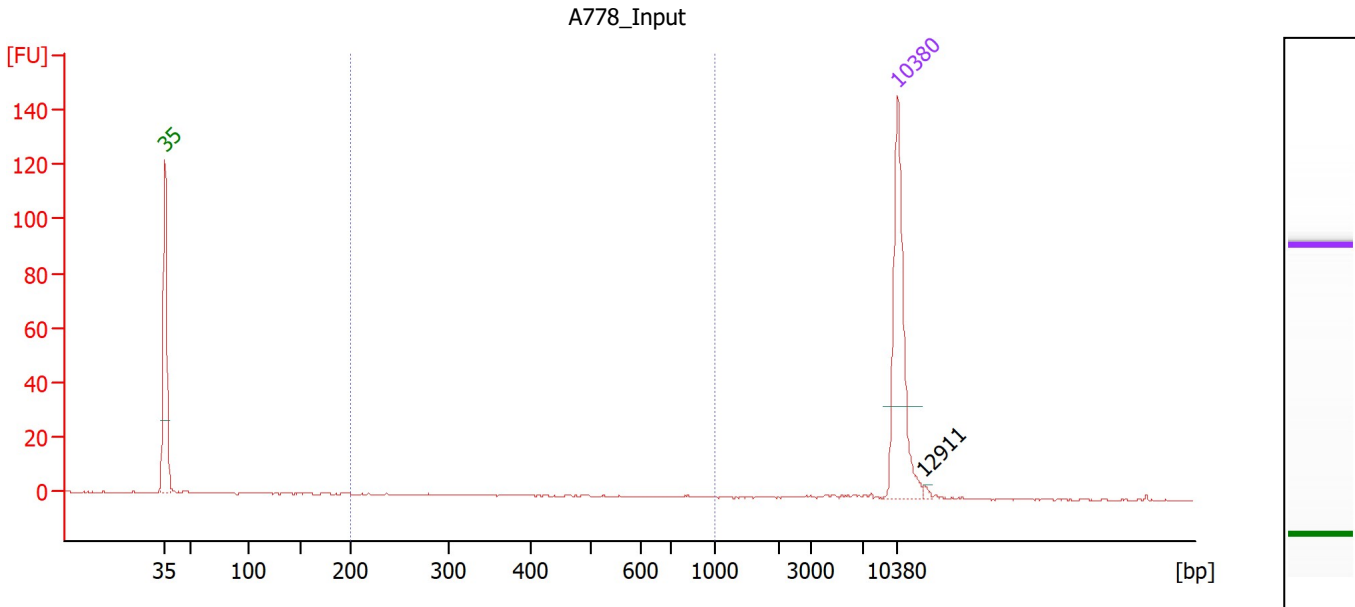
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	10,888.2	99	357	16.0	15,445.08	67,269.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : A778 Input**

Number of peaks found: 1                      Corr. Area 1: 6.0  
 Noise: 0.2

**Peak table for sample 6 : A778 Input**

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
3	12,911	0.00	0.0	

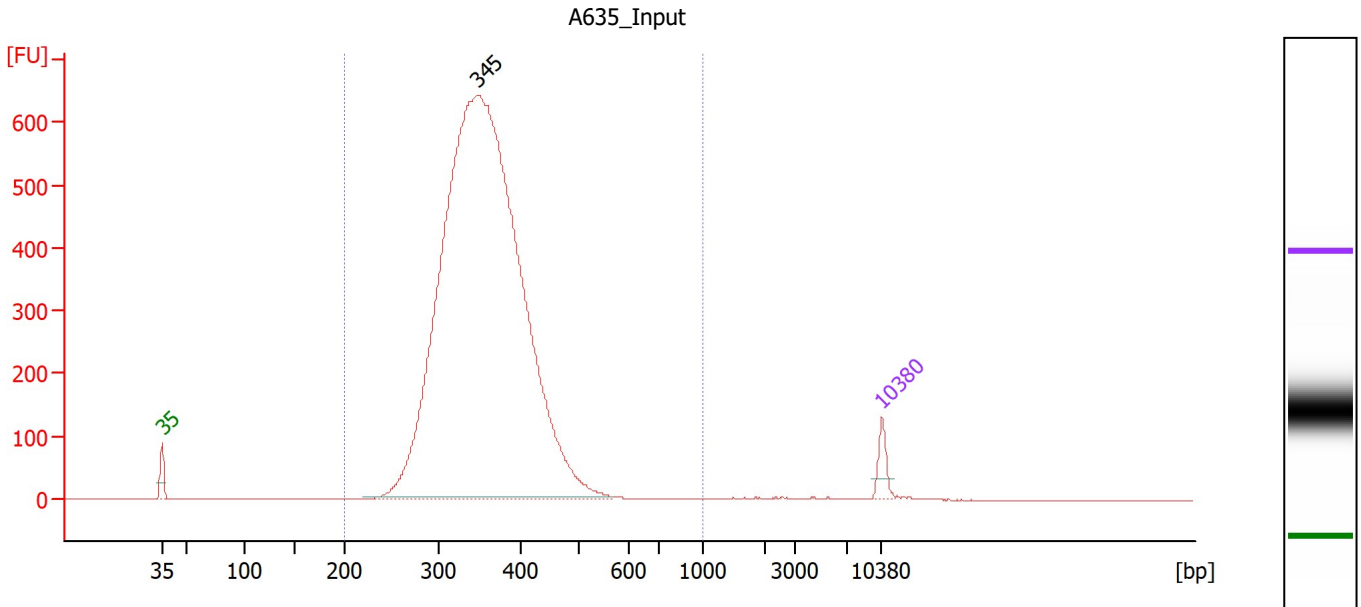
**Region table for sample 6 : A778 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6.0	20	420	45.2	4.72	21.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A635 Input**

Number of peaks found: 1                      Corr. Area 1: 7,989.3  
 Noise: 0.2

**Peak table for sample 7 : A635 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	345	8,900.55	39,062.6	
3	10,380	75.00	10.9	Upper Marker

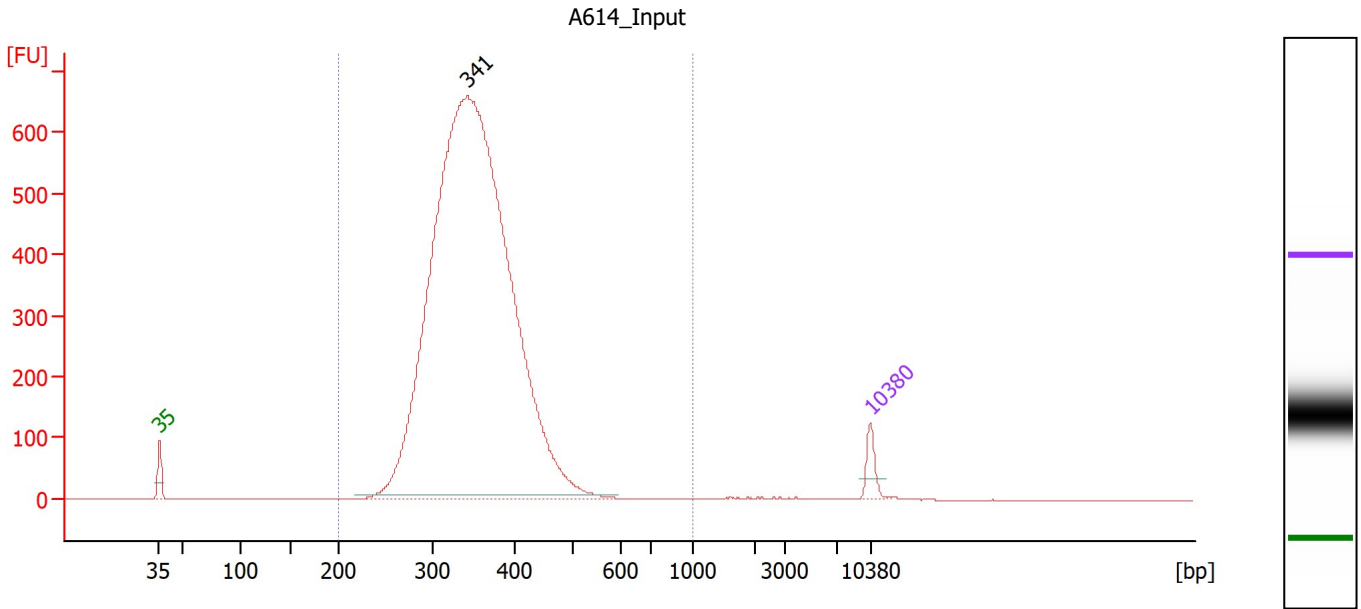
**Region table for sample 7 : A635 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7,989.3	99	357	15.2	8,875.78	38,585.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : A614 Input**

Number of peaks found: 1                      Corr. Area 1: 8,183.1  
 Noise: 0.2

**Peak table for sample 8 : A614 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	341	8,838.63	39,240.8	
3	10,380	75.00	10.9	Upper Marker

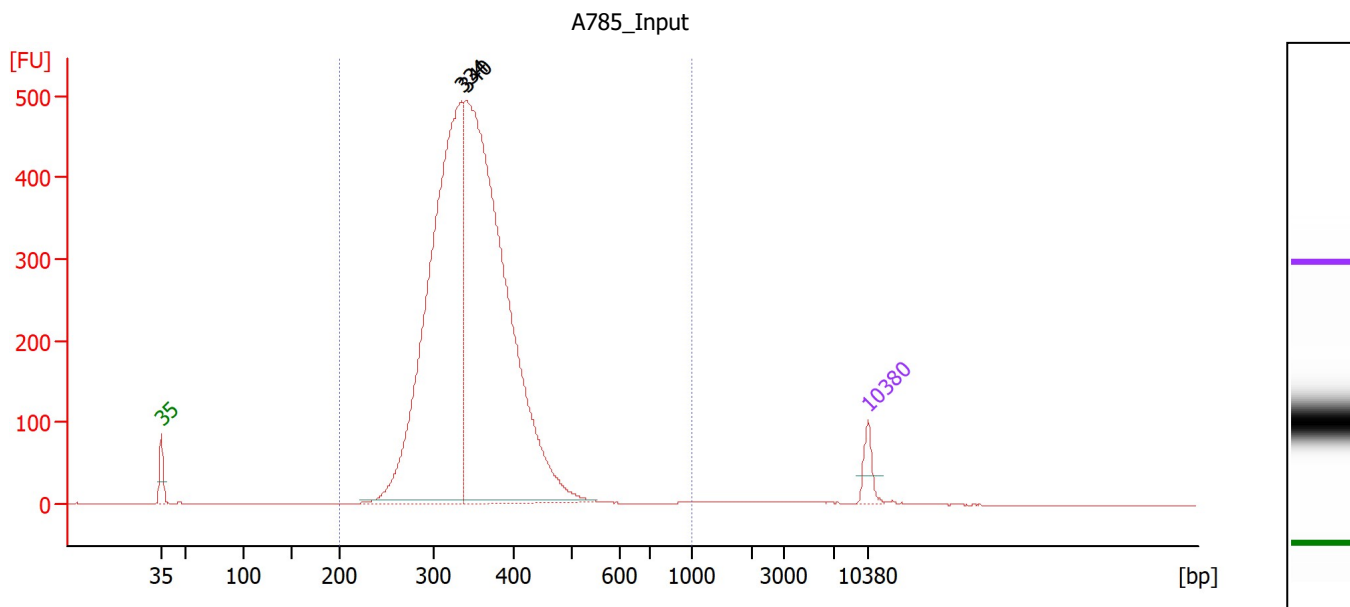
**Region table for sample 8 : A614 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	8,183.1	99	352	15.2	8,810.89	38,801.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : A785 Input**

Number of peaks found: 2                      Corr. Area 1: 5,931.1  
 Noise: 0.1

**Peak table for sample 9 : A785 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	334	3,578.53	16,219.6	
3	340	4,395.21	19,571.9	
4	10,380	75.00	10.9	Upper Marker

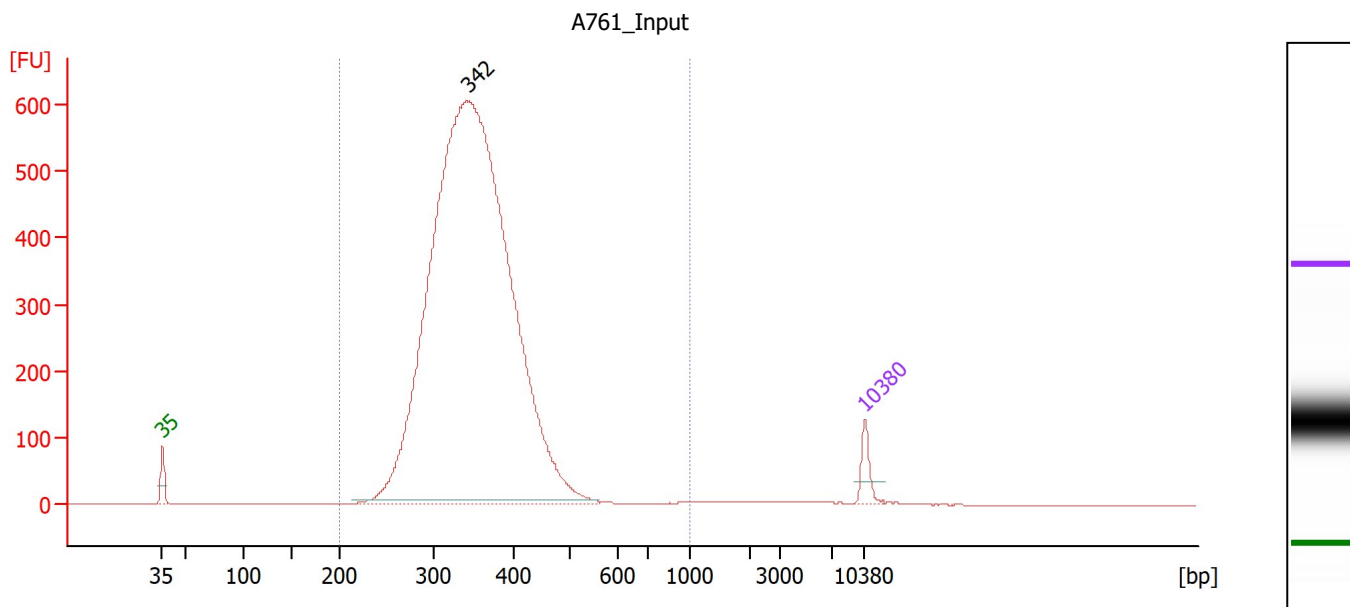
**Region table for sample 9 : A785 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,931.1	99	348	15.1	7,967.48	35,453.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A761 Input**

Number of peaks found: 1                      Corr. Area 1: 7,741.1  
 Noise: 0.2

**Peak table for sample 10 : A761 Input**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	342	8,552.05	37,868.2	
3	10,380	75.00	10.9	Upper Marker

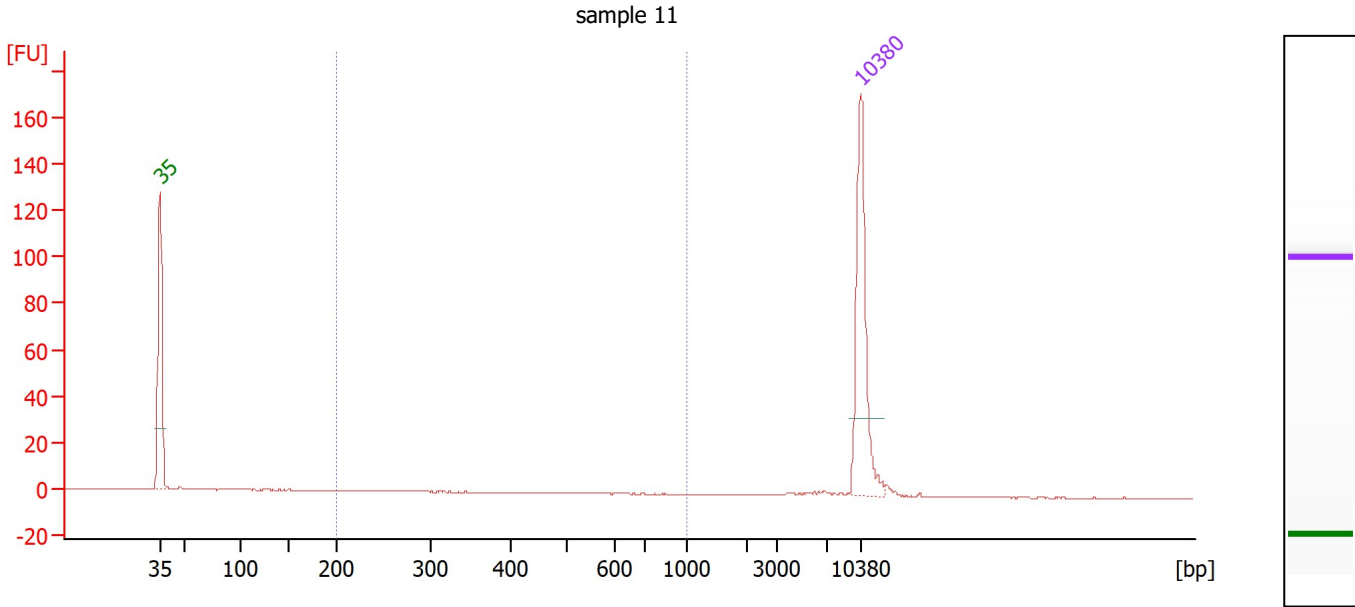
**Region table for sample 10 : A761 Input**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7,741.1	99	353	15.7	8,562.47	37,742.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 0                      Corr. Area 1: 2.7  
 Noise: 0.2

**Peak table for sample 11 : sample 11**

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

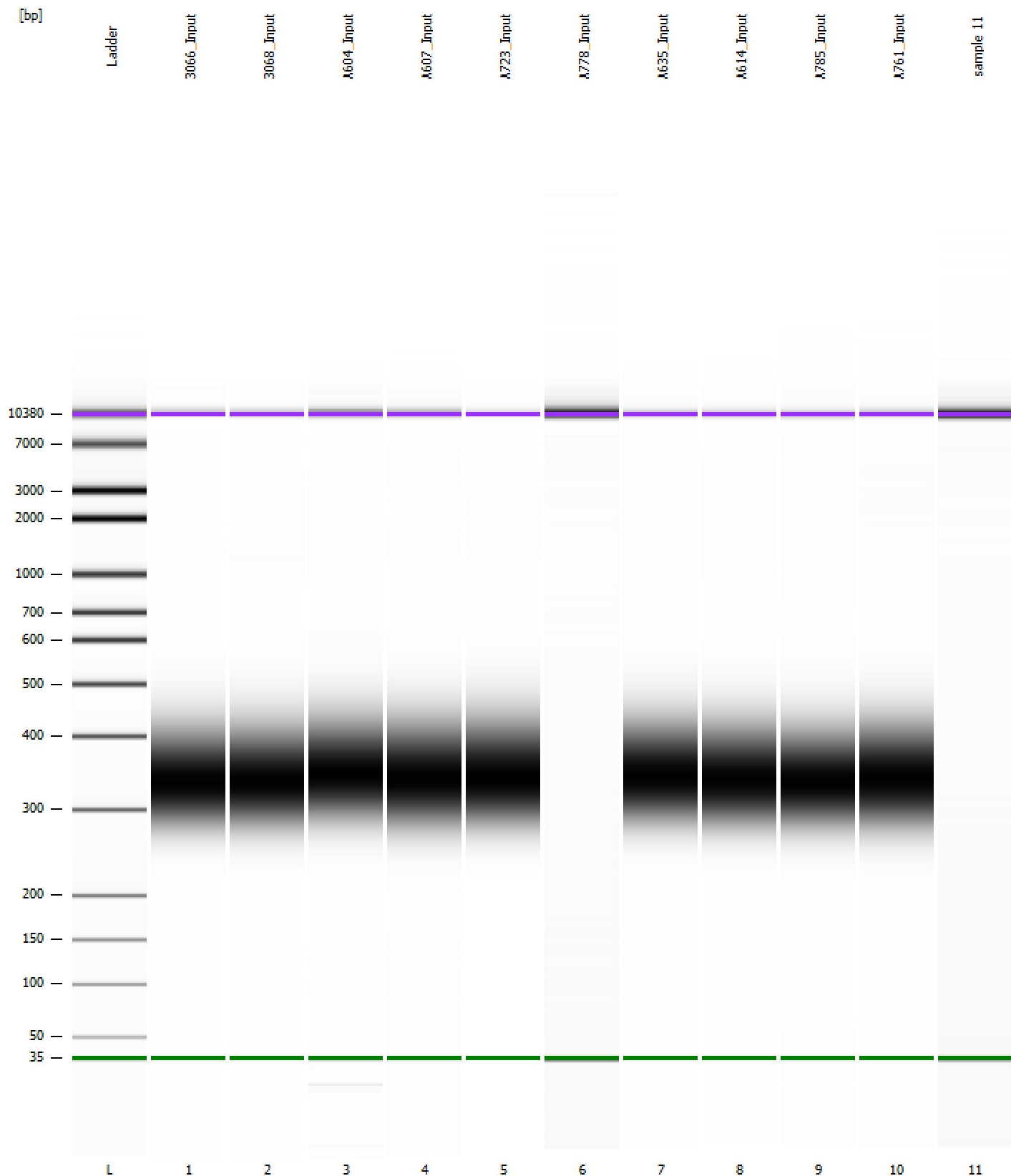
**Region table for sample 11 : sample 11**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2.7	13	288	41.0	1.98	11.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
Modified: 11/20/2019 12:54:12 PM

**Gel Image**

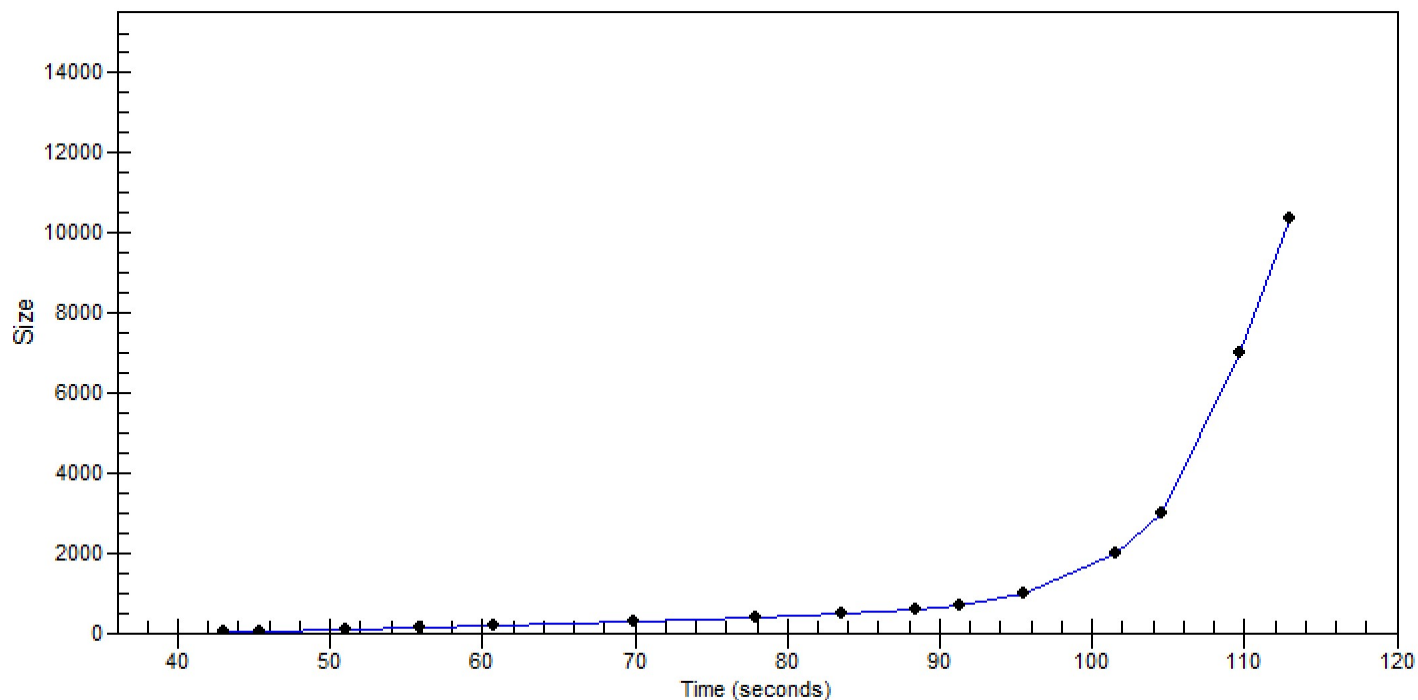


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
Modified: 11/20/2019 12:54:12 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-20\_002.xad

Created: 11/20/2019 12:13:43 PM  
 Modified: 11/20/2019 12:54:12 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		11/20/2019 12:54:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-11-20\Bioanalyze r1_High Sensitivity DNA Assay_2019-11-20_002.xad)		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/20/2019 12:13:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB