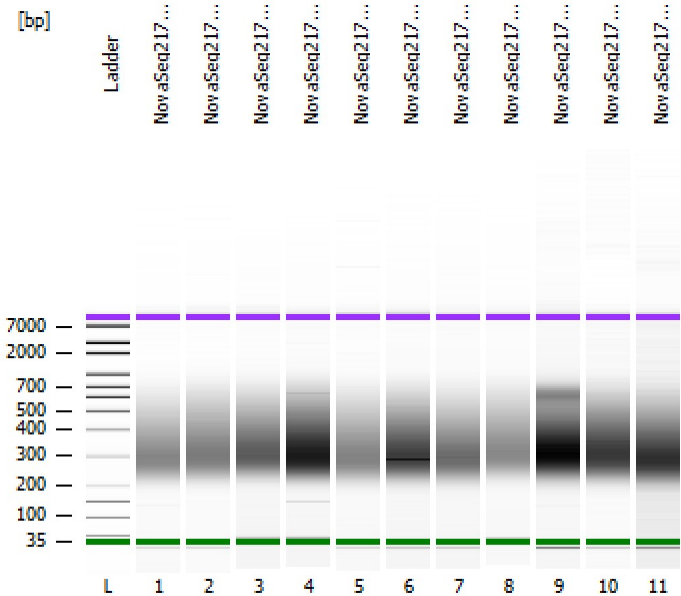


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
Modified: 7/27/2020 3:04:49 PM

Electrophoresis File Run Summary



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

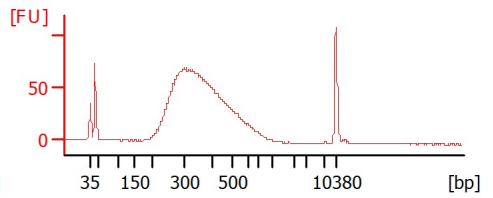
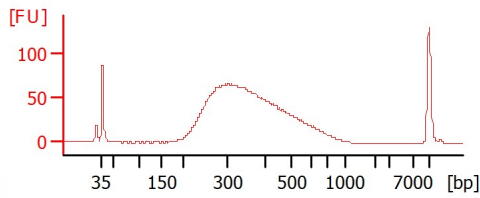
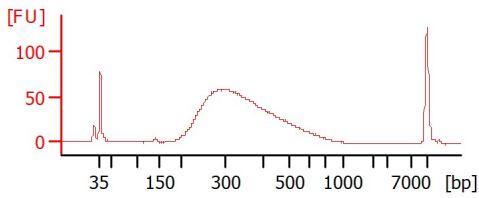
**Assay Information:**  
 Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
 Assay Class: High Sensitivity DNA Assay  
 Version: 1.03  
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

**Chip Information:**  
 Chip Lot #:   
 Reagent Kit Lot #:   
 Chip Comments:

NovaSeq217Lib-56

NovaSeq217Lib-57

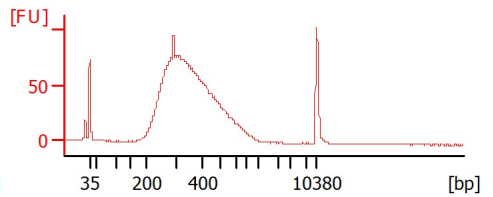
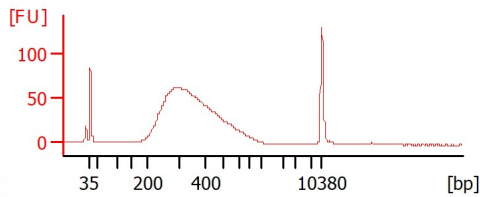
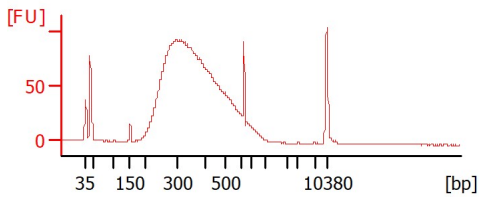
NovaSeq217Lib-58



NovaSeq217Lib-59

NovaSeq217Lib-60

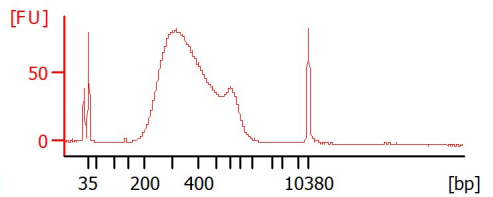
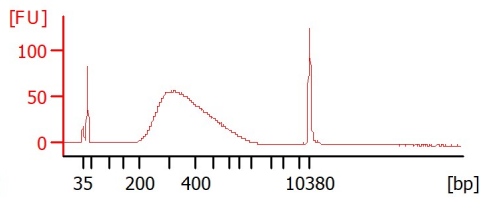
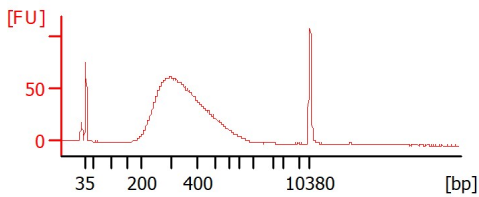
NovaSeq217Lib-61



NovaSeq217Lib-62

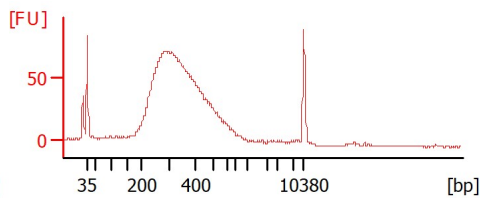
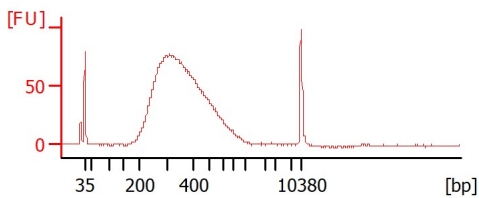
NovaSeq217Lib-63

NovaSeq217Lib-64



NovaSeq217Lib-65

NovaSeq217Lib-66



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NovaSeq217Lib-56		<input type="checkbox"/>	✓			
NovaSeq217Lib-57		<input type="checkbox"/>	✓			
NovaSeq217Lib-58		<input type="checkbox"/>	✓			
NovaSeq217Lib-59		<input type="checkbox"/>	✓			
NovaSeq217Lib-60		<input type="checkbox"/>	✓			
NovaSeq217Lib-61		<input type="checkbox"/>	✓			
NovaSeq217Lib-62		<input type="checkbox"/>	✓			
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NovaSeq217Lib-64		<input type="checkbox"/>	✓			
NovaSeq217Lib-65		<input type="checkbox"/>	✓			
NovaSeq217Lib-66		<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\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 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

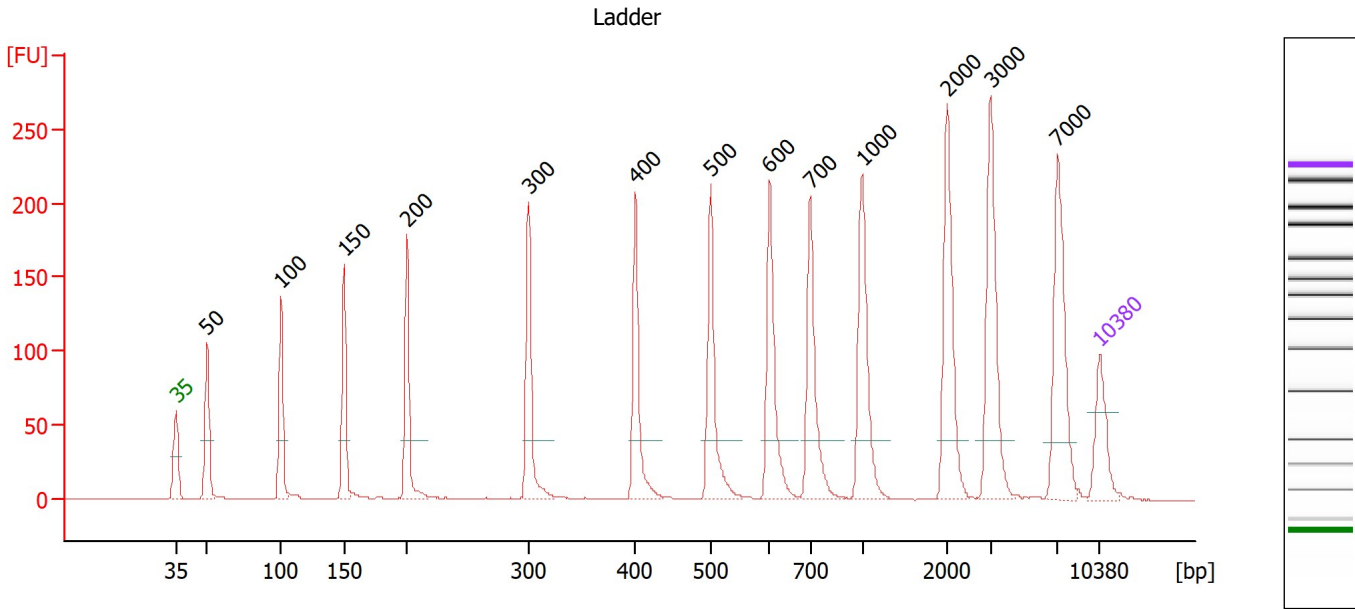
**Ladder**

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\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

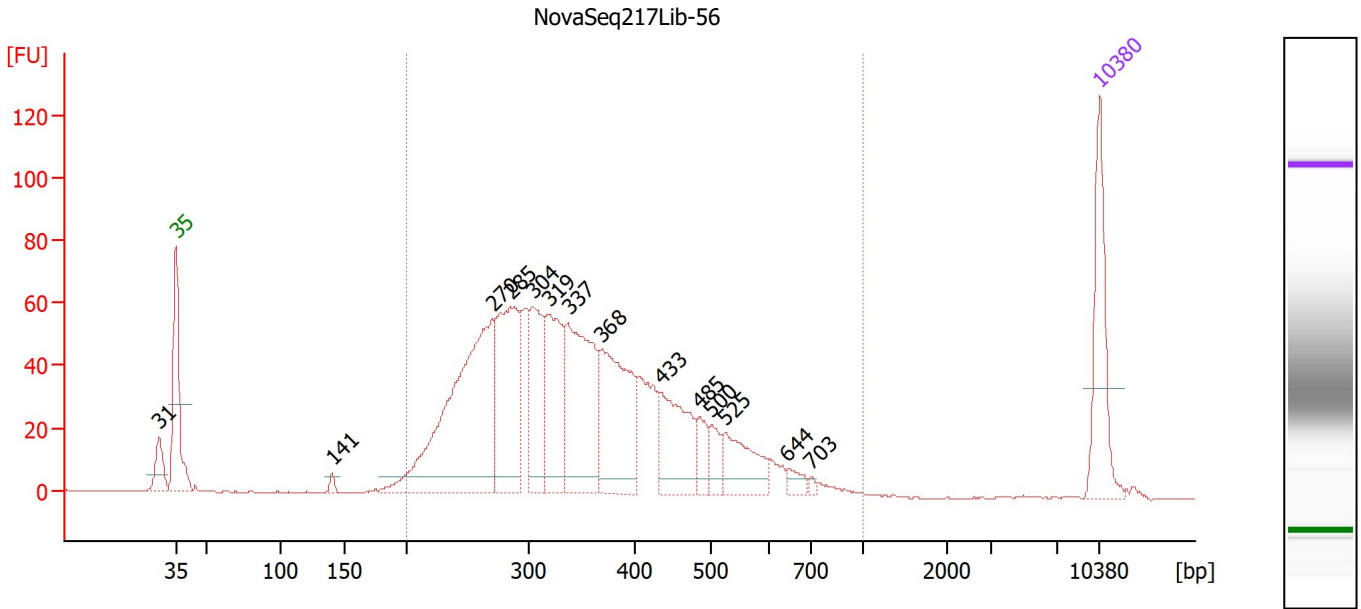
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : NovaSeq217Lib-56**

Number of peaks found: 14      Corr. Area 1: 1,408.7  
 Noise: 0.2

**Peak table for sample 1 : NovaSeq217Lib-56**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	141	6.98	75.1	
4	270	362.54	2,035.8	
5	285	178.21	947.8	
6	304	107.57	536.4	
7	319	126.03	598.8	
8	337	186.64	838.6	
9	368	159.81	658.1	
10	433	98.06	343.4	
11	485	27.94	87.3	
12	500	23.29	70.6	
13	525	59.50	171.7	
14	644	10.94	25.7	
15	703	3.60	7.8	
16	10,380	75.00	10.9	Upper Marker

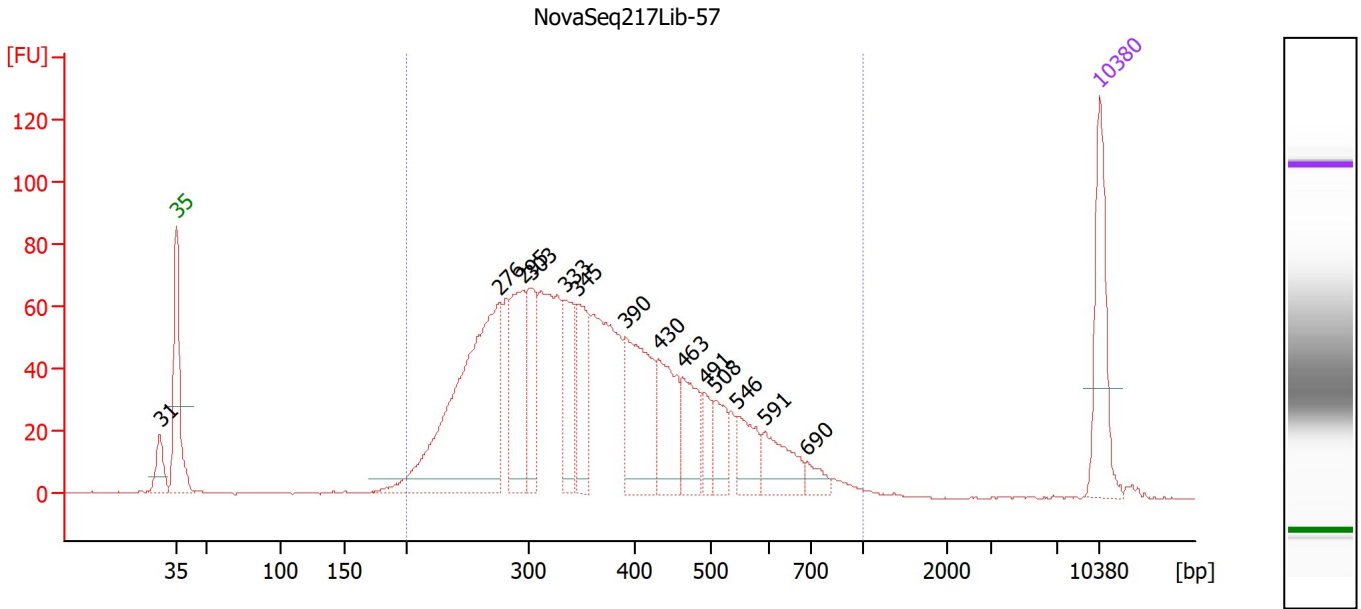
**Region table for sample 1 : NovaSeq217Lib-56**

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	1,408.7	97	359	29.8	1,514.08	7,078.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : NovaSeq217Lib-57**

Number of peaks found: 14      Corr. Area 1: 1,685.3  
 Noise: 0.3

**Peak table for sample 2 : NovaSeq217Lib-57**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	276	394.02	2,161.8	
4	295	123.56	634.7	
5	303	80.29	401.6	
6	333	79.93	363.3	
7	345	84.14	369.2	
8	390	140.52	545.5	
9	430	87.17	307.3	
10	463	63.44	207.6	
11	491	26.98	83.2	
12	508	37.79	112.6	
13	546	43.27	120.2	
14	591	49.73	127.5	
15	690	15.08	33.1	
16	10,380	75.00	10.9	Upper Marker

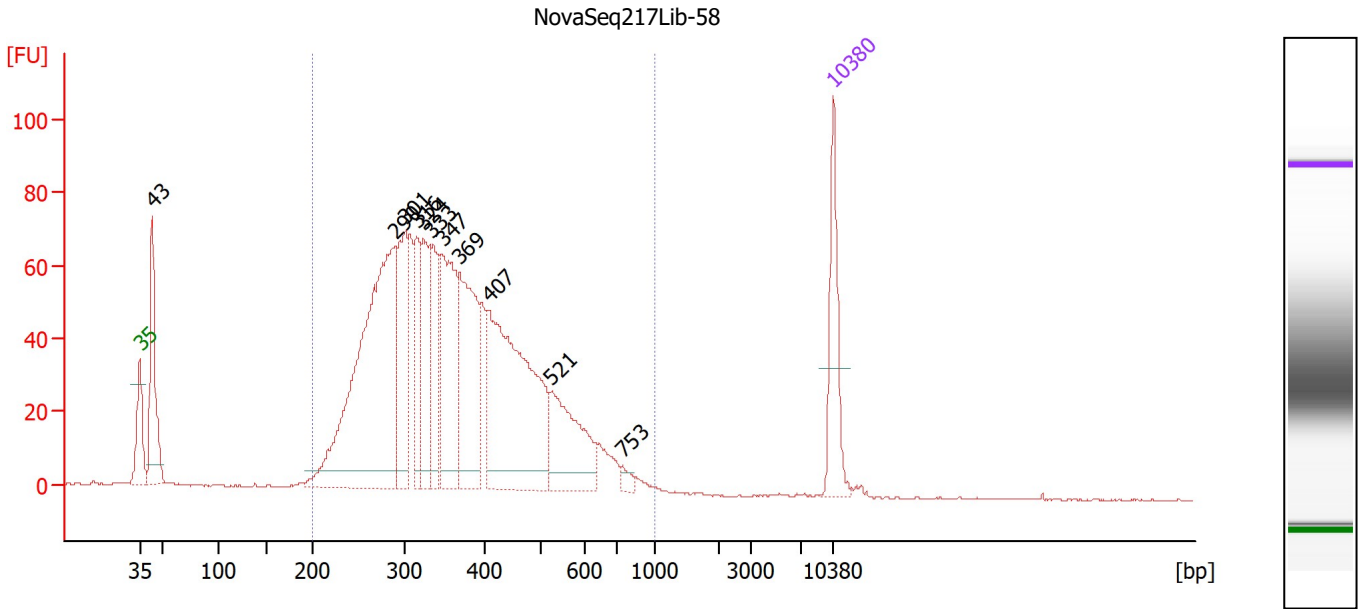
**Region table for sample 2 : NovaSeq217Lib-57**

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	1,685.3	96	377	31.7	1,722.57	7,776.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : NovaSeq217Lib-58**

Number of peaks found: 11      Corr. Area 1: 1,682.9  
 Noise: 0.2

**Peak table for sample 3 : NovaSeq217Lib-58**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	175.41	6,143.8	
3	290	565.11	2,952.1	
4	301	149.92	753.8	
5	316	89.17	427.7	
6	324	119.91	561.0	
7	333	107.68	489.8	
8	347	197.23	861.2	
9	369	196.31	806.4	
10	407	367.06	1,364.9	
11	521	134.27	390.7	
12	753	9.80	19.7	
13	10,380	75.00	10.9	Upper Marker

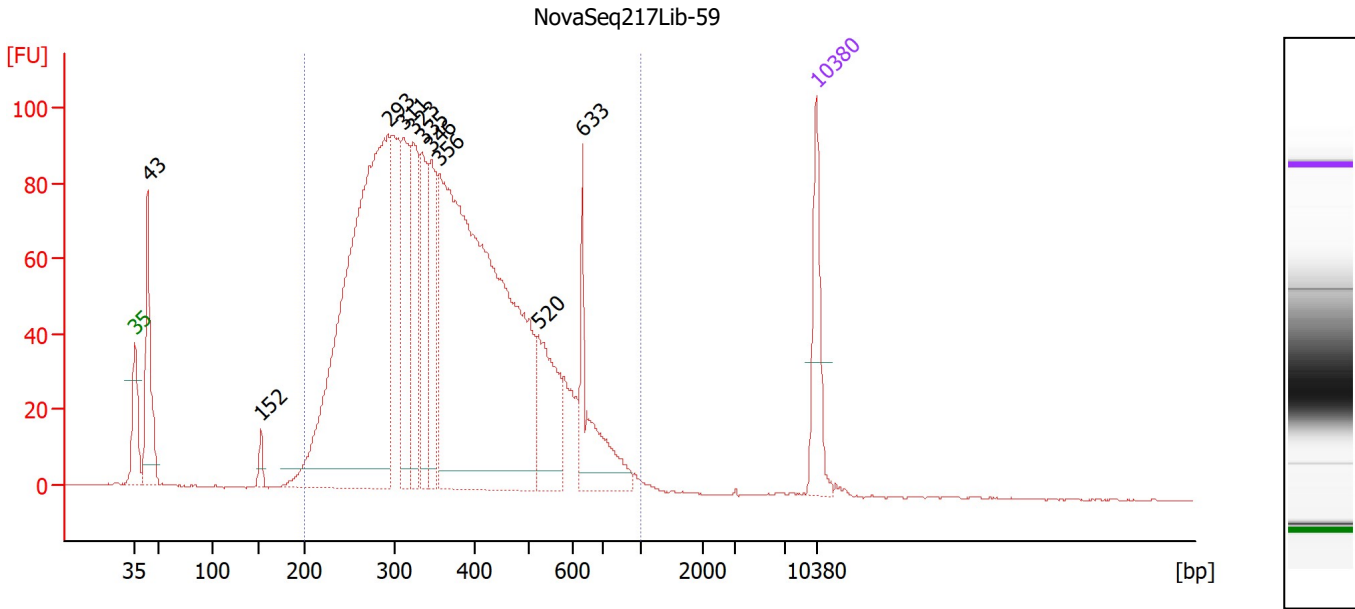
**Region table for sample 3 : NovaSeq217Lib-58**

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	1,682.9	93	376	29.9	2,135.86	9,549.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : NovaSeq217Lib-59**

Number of peaks found: 10                      Corr. Area 1: 2,449.1  
 Noise: 0.3

**Peak table for sample 4 : NovaSeq217Lib-59**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	196.52	6,859.8	
3	152	20.00	199.1	
4	293	994.63	5,148.6	
5	311	166.79	811.8	
6	323	140.76	659.4	
7	335	141.67	641.0	
8	346	125.96	551.1	
9	356	1,089.01	4,629.2	
10	520	132.65	386.3	
11	633	117.01	279.9	
12	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : NovaSeq217Lib-59**

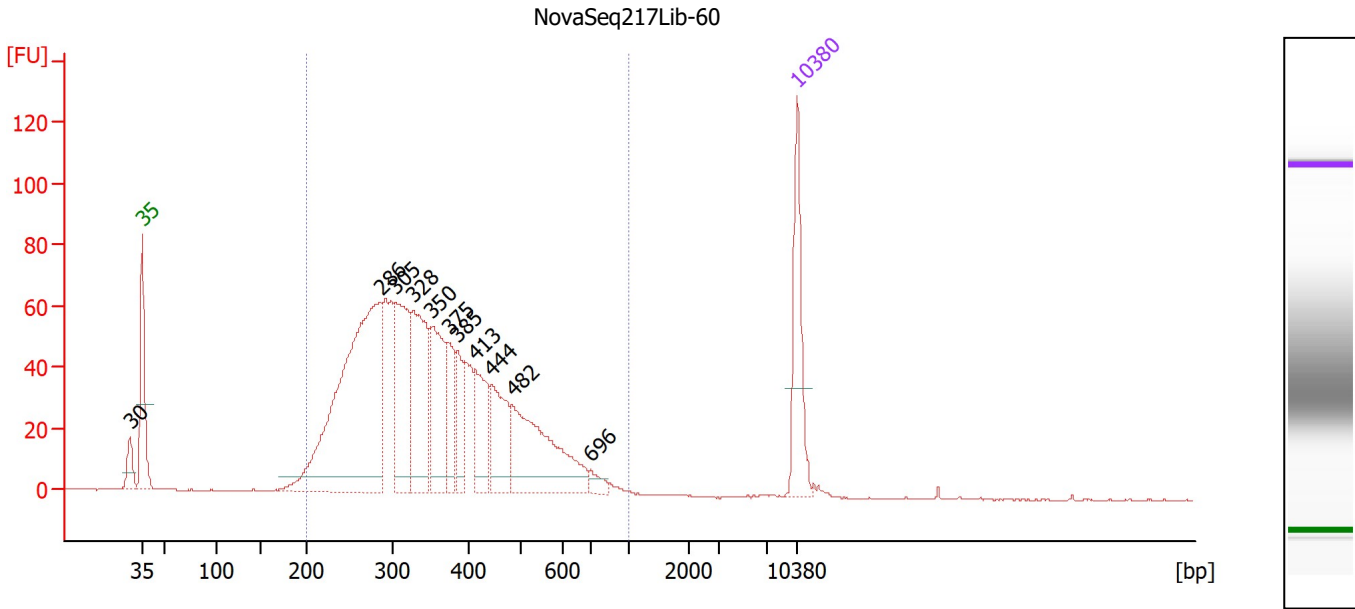
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,449.1	94	380	32.2	3,222.28	14,507.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : NovaSeq217Lib-60**

Number of peaks found: 11                      Corr. Area 1: 1,511.9  
 Noise: 0.2

**Peak table for sample 5 : NovaSeq217Lib-60**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	286	500.29	2,648.3	
4	305	155.45	772.8	
5	328	156.91	725.0	
6	350	123.49	534.0	
7	375	59.50	240.5	
8	385	47.69	187.5	
9	413	71.85	263.4	
10	444	76.35	260.3	
11	482	167.12	524.8	
12	696	11.50	25.0	
13	10,380	75.00	10.9	Upper Marker

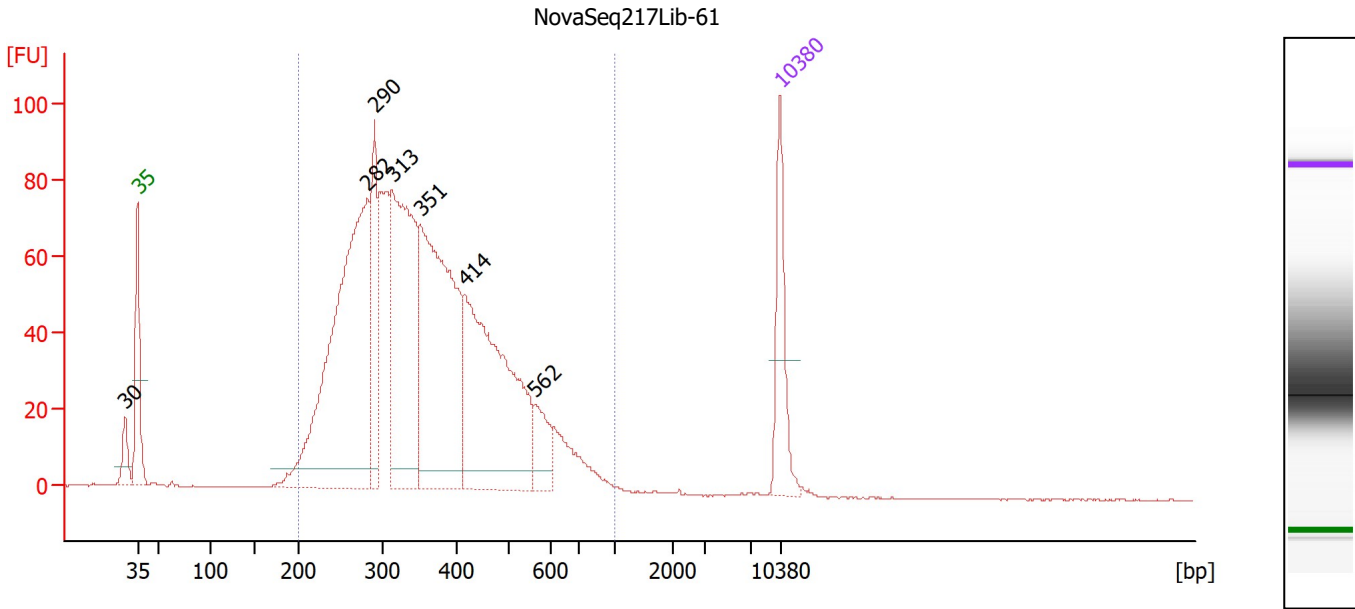
**Region table for sample 5 : NovaSeq217Lib-60**

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	1,511.9	97	365	30.8	1,577.71	7,301.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : NovaSeq217Lib-61**

Number of peaks found: 7                      Corr. Area 1: 1,862.3  
 Noise: 0.2

**Peak table for sample 6 : NovaSeq217Lib-61**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	282	642.81	3,453.5	
4	290	132.38	691.0	
5	313	397.62	1,927.4	
6	351	451.01	1,946.0	
7	414	394.79	1,445.0	
8	562	50.12	135.1	
9	10,380	75.00	10.9	Upper Marker

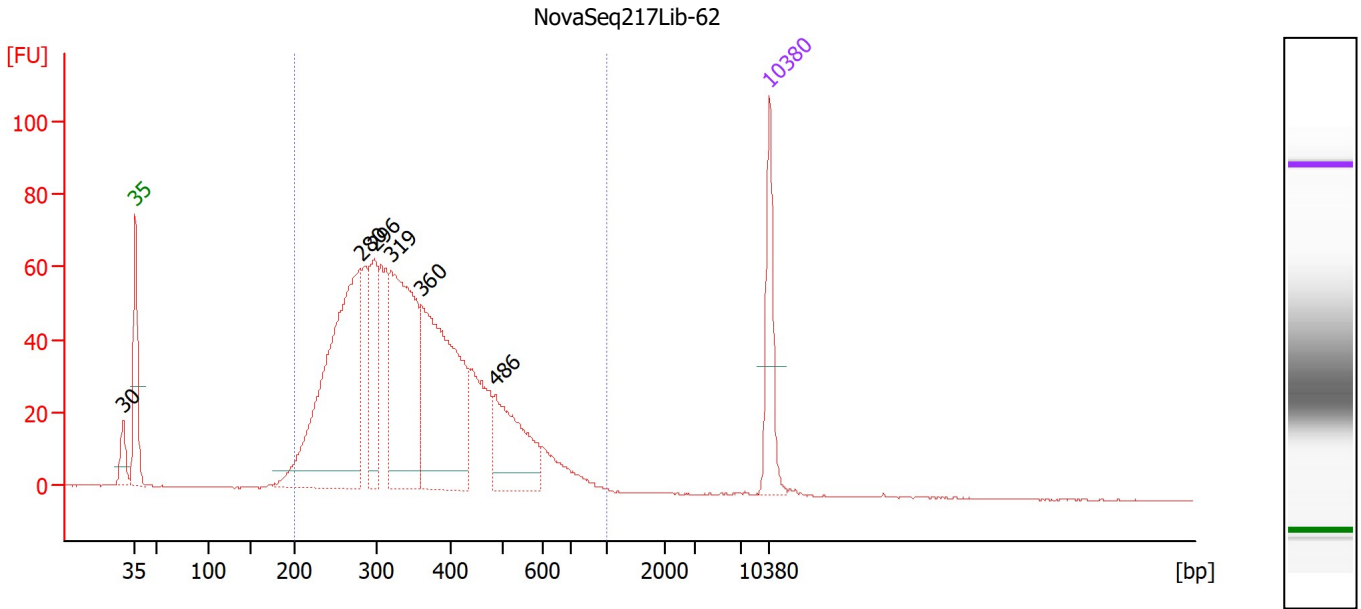
**Region table for sample 6 : NovaSeq217Lib-61**

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	1,862.3	97	369	30.8	2,280.34	10,445.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : NovaSeq217Lib-62**

Number of peaks found: 6                      Corr. Area 1: 1,448.0  
 Noise: 0.2

**Peak table for sample 7 : NovaSeq217Lib-62**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	280	537.73	2,913.0	
4	296	141.16	721.7	
5	319	349.97	1,662.0	
6	360	377.11	1,589.1	
7	486	142.45	444.1	
8	10,380	75.00	10.9	Upper Marker

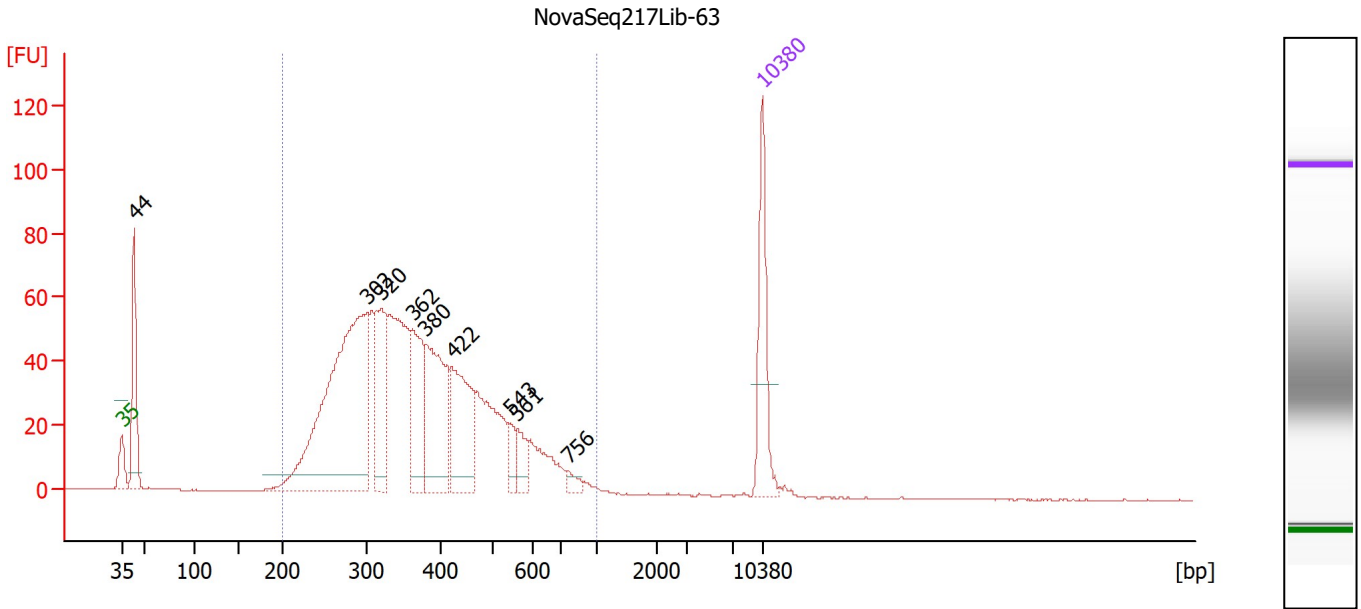
**Region table for sample 7 : NovaSeq217Lib-62**

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	1,448.0	97	361	30.3	1,932.90	9,010.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : NovaSeq217Lib-63**

Number of peaks found: 9                      Corr. Area 1: 1,373.6  
 Noise: 0.2

**Peak table for sample 8 : NovaSeq217Lib-63**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	140.76	4,894.5	
3	302	480.38	2,413.9	
4	320	124.10	587.3	
5	362	101.56	424.6	
6	380	157.28	627.7	
7	422	117.06	420.1	
8	543	20.88	58.2	
9	561	23.57	63.6	
10	756	9.12	18.3	
11	10,380	75.00	10.9	Upper Marker

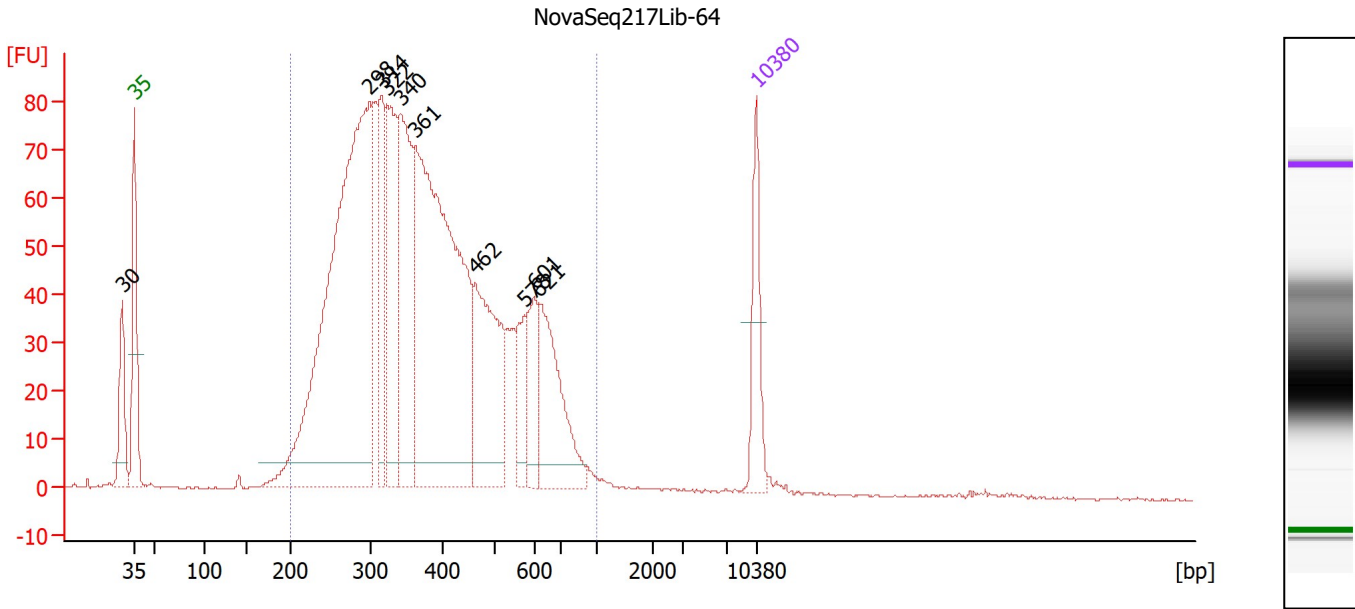
**Region table for sample 8 : NovaSeq217Lib-63**

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	1,373.6	93	382	30.8	1,511.59	6,686.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : NovaSeq217Lib-64**

Number of peaks found: 10                      Corr. Area 1: 1,988.9  
 Noise: 0.3

**Peak table for sample 9 : NovaSeq217Lib-64**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	298	1,027.08	5,227.4	
4	314	155.79	750.8	
5	322	234.76	1,105.4	
6	340	281.73	1,254.6	
7	361	785.33	3,297.0	
8	462	240.68	788.7	
9	578	69.10	181.1	
10	601	70.28	177.1	
11	621	167.62	409.0	
12	10,380	75.00	10.9	Upper Marker

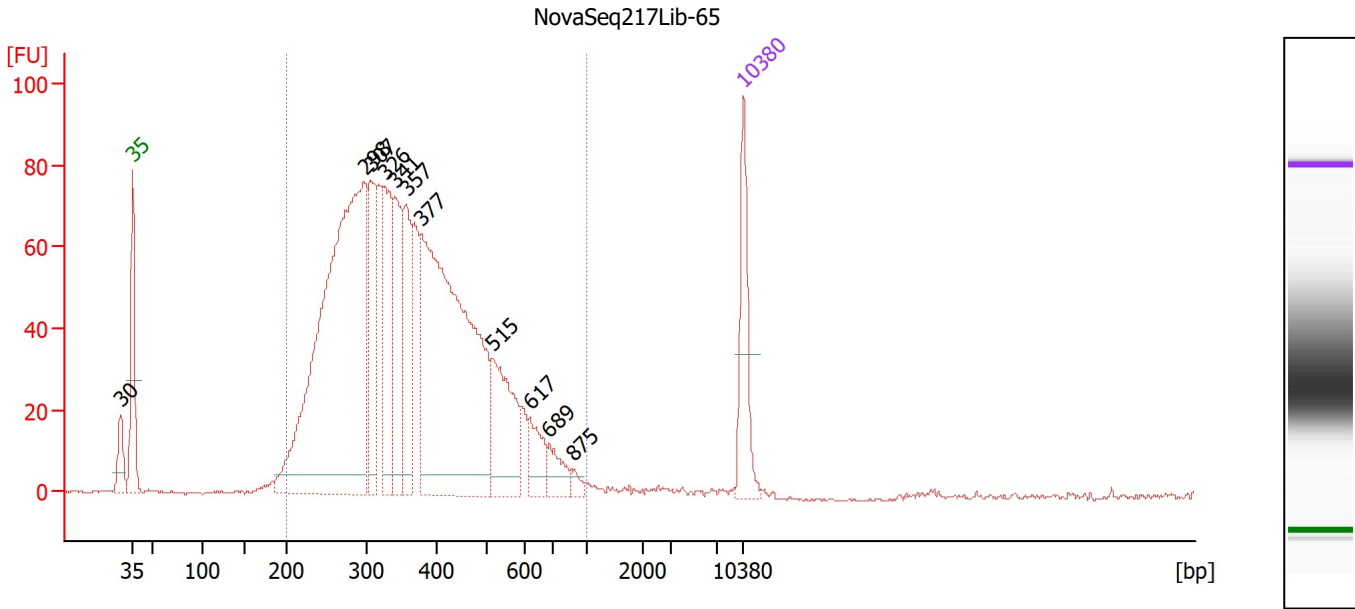
**Region table for sample 9 : NovaSeq217Lib-64**

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	1,988.9	95	393	33.4	3,279.72	14,410.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : NovaSeq217Lib-65**

Number of peaks found: 11      Corr. Area 1: 1,832.2  
 Noise: 0.3

**Peak table for sample 10 : NovaSeq217Lib-65**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	298	850.25	4,322.0	
4	307	146.96	725.7	
5	326	144.89	672.6	
6	341	142.50	632.4	
7	357	125.65	533.0	
8	377	627.66	2,519.5	
9	515	130.51	384.0	
10	617	41.58	102.1	
11	689	30.29	66.6	
12	875	9.01	15.6	
13	10,380	75.00	10.9	Upper Marker

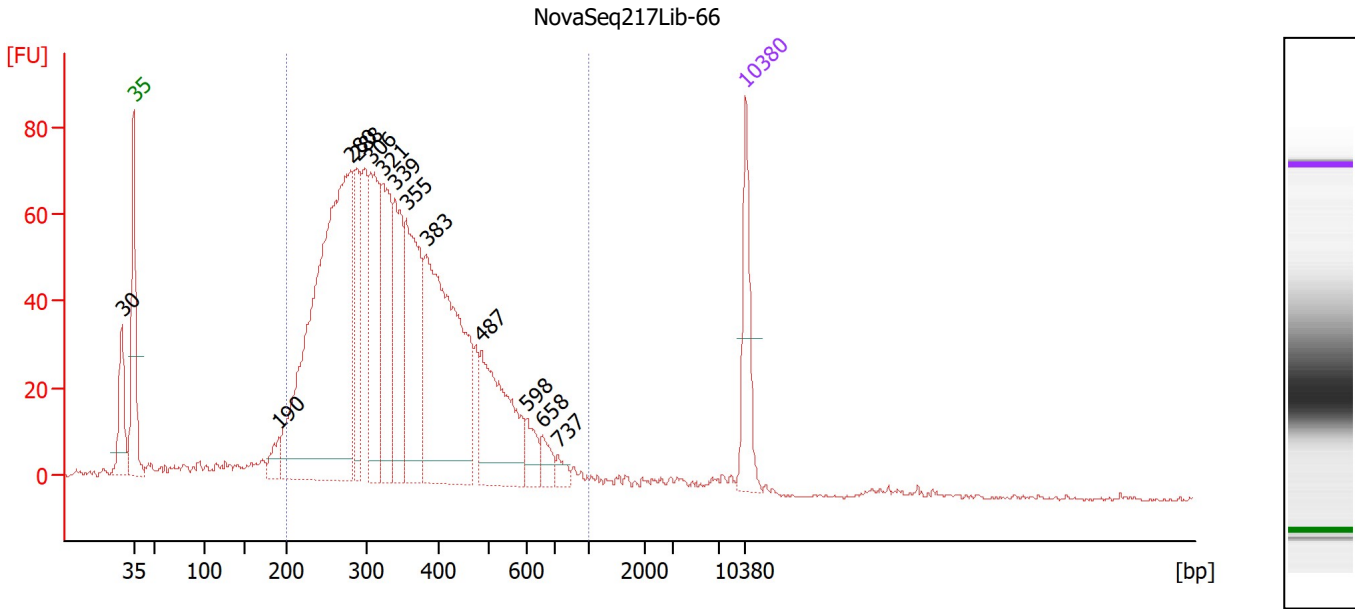
**Region table for sample 10 : NovaSeq217Lib-65**

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	1,832.1	97	374	31.1	2,428.05	10,986.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : NovaSeq217Lib-66**

Number of peaks found: 13      Corr. Area 1: 1,690.7  
 Noise: 0.5

**Peak table for sample 11 : NovaSeq217Lib-66**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	190	32.17	257.0	
4	280	843.25	4,569.2	
5	288	127.70	672.8	
6	306	202.83	1,003.5	
7	321	187.43	884.0	
8	339	160.27	715.8	
9	355	224.41	957.8	
10	383	441.13	1,746.3	
11	487	189.63	590.1	
12	598	32.54	82.5	
13	658	23.22	53.5	
14	737	13.57	27.9	
15	10,380	75.00	10.9	Upper Marker

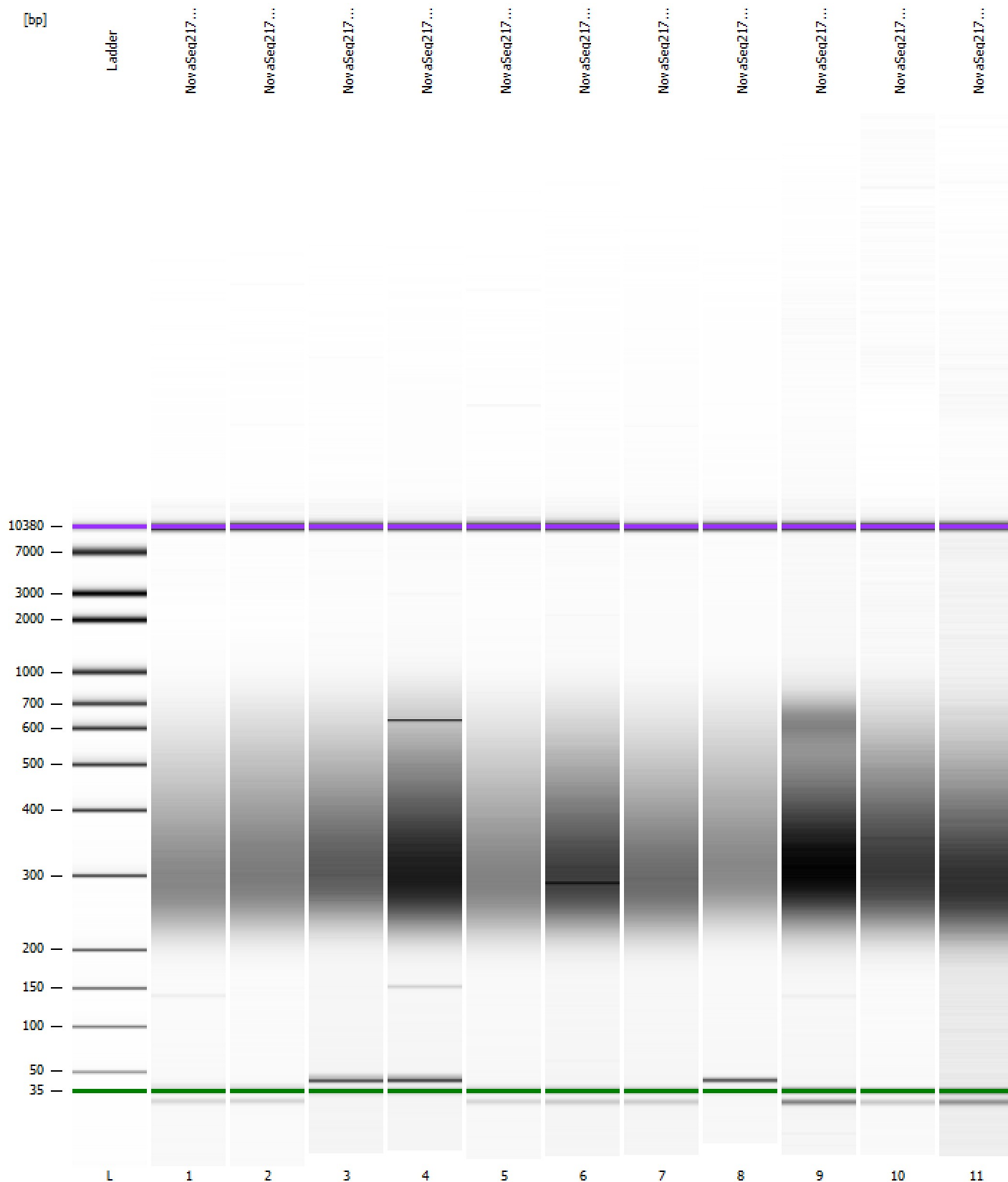
**Region table for sample 11 : NovaSeq217Lib-66**

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	1,690.7	91	358	31.3	2,637.37	12,462.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
Modified: 7/27/2020 3:04:49 PM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-27\_003.xad

Created: 7/27/2020 2:15:46 PM  
 Modified: 7/27/2020 3:04:49 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		7/27/2020 2:56:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-27\Bioanalyze r1_High Sensitivity DNA Assay_2020-07-27_003.xad)		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/27/2020 2:15:51 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB