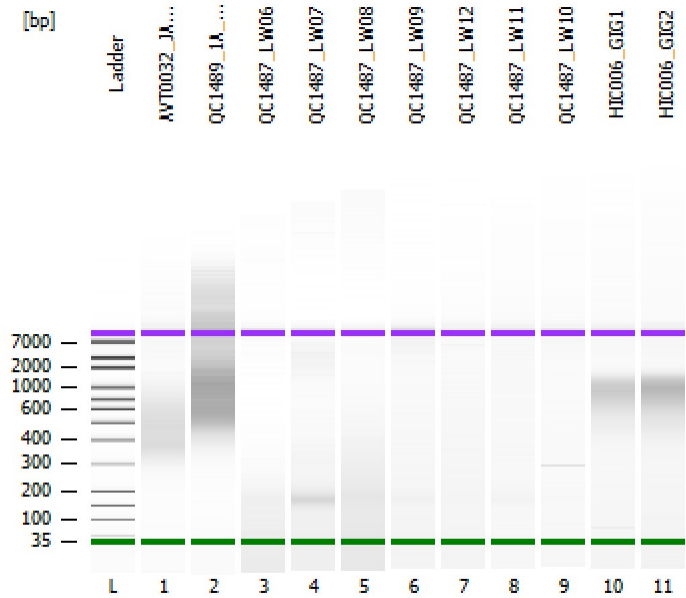


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
Modified: 5/22/2023 4:19:04 PM

Electrophoresis File Run Summary



Instrument Information:

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

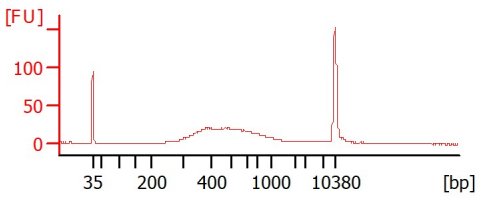
Assay Information:

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

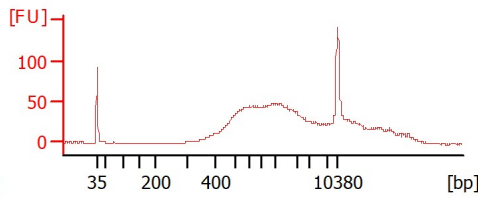
Chip Information:

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

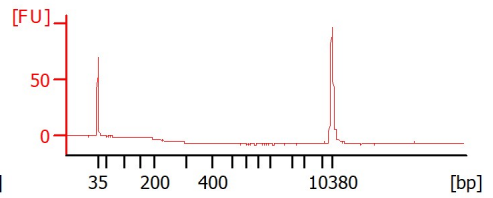
AVT0032\_JA\_AQ



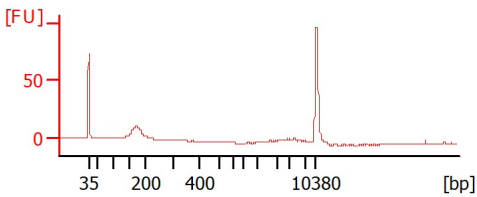
QC1489\_1A\_PRIME



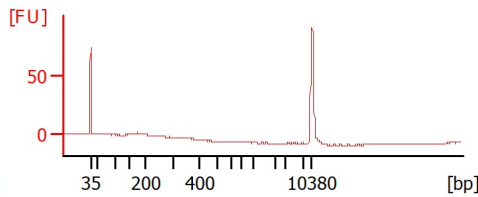
QC1487\_LW06



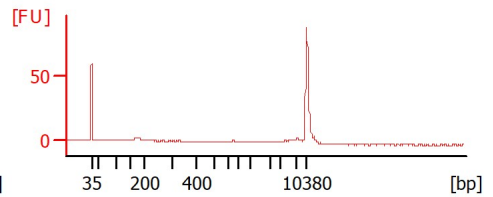
QC1487\_LW07



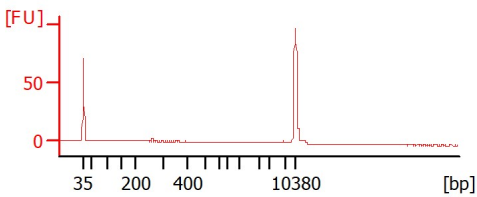
QC1487\_LW08



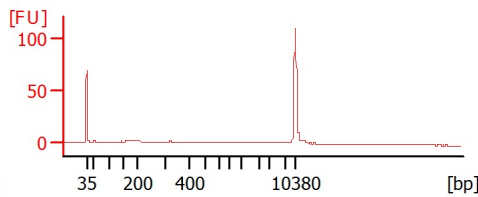
QC1487\_LW09



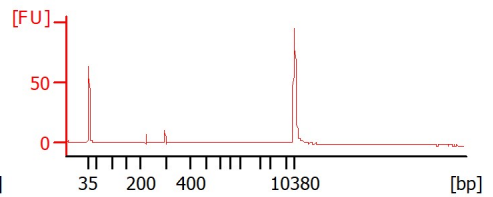
QC1487\_LW12



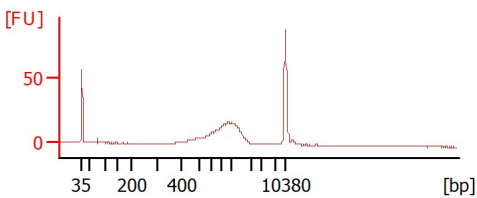
QC1487\_LW11



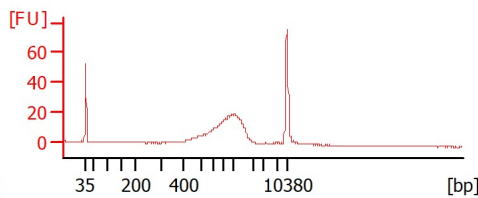
QC1487\_LW10



HIC006\_GIG1



HIC006\_GIG2



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AVT0032_JA_AQ		<input type="checkbox"/>		✓		
QC1489_1A_PRIME		<input type="checkbox"/>		✓		
QC1487_LW06		<input type="checkbox"/>		✓		
QC1487_LW07		<input type="checkbox"/>		✓		
QC1487_LW08		<input type="checkbox"/>		✓		
QC1487_LW09		<input type="checkbox"/>		✓		
QC1487_LW12		<input type="checkbox"/>		✓		
QC1487_LW11		<input type="checkbox"/>		✓		
QC1487_LW10		<input type="checkbox"/>		✓		
HIC006_GIG1		<input type="checkbox"/>		✓		
HIC006_GIG2		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 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

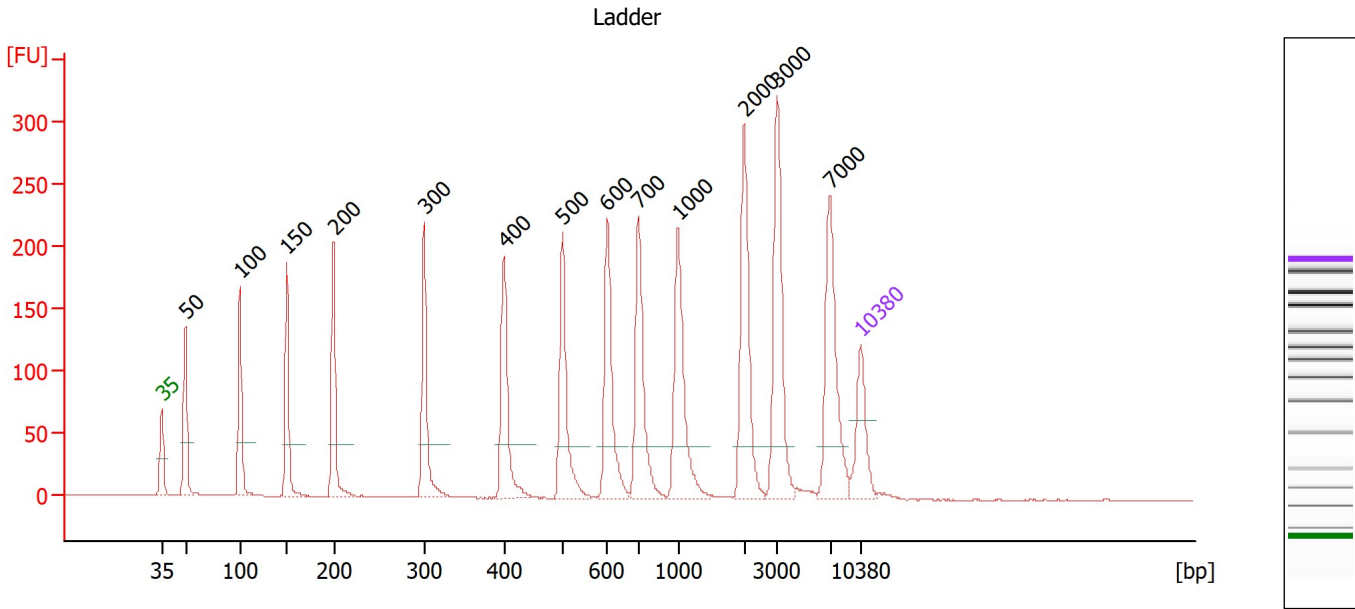
**Ladder**

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:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

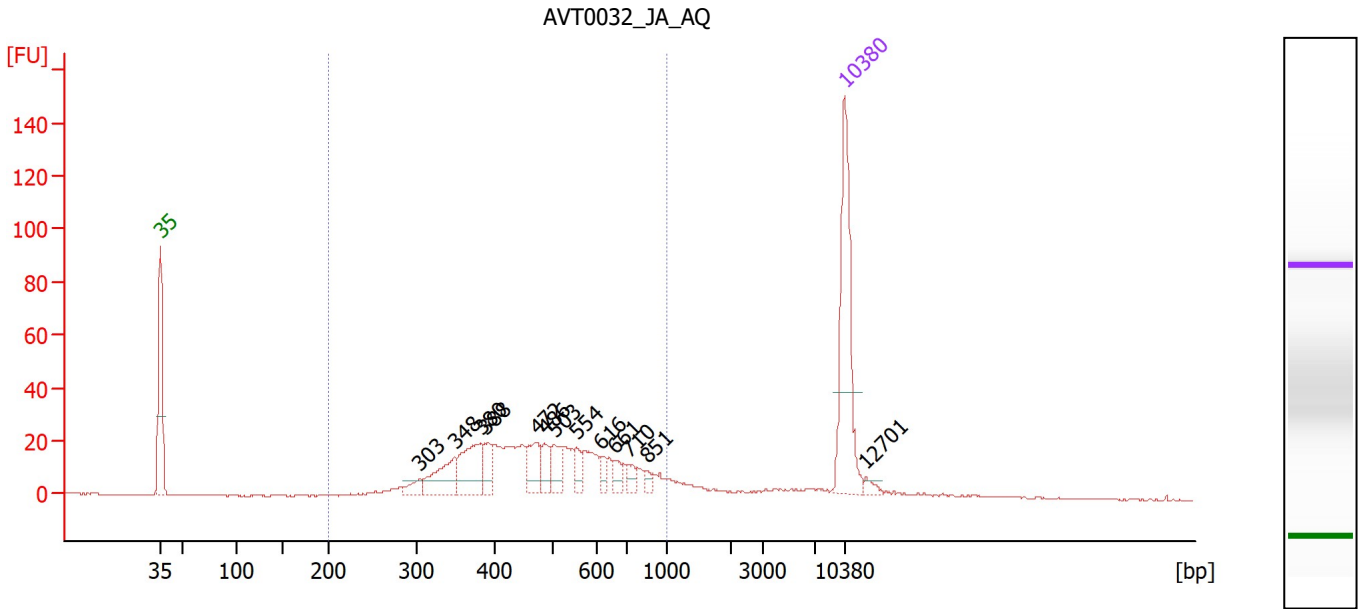
**Peak table for Ladder**

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: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : AVT0032 JA AQ**

Number of peaks found: 13                      Corr. Area 1: 483.5  
 Noise: 0.2

**Peak table for sample 1 : AVT0032 JA AQ**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	303	9.95	49.7	
3	348	32.17	140.2	
4	380	40.33	160.6	
5	388	15.92	62.2	
6	472	22.69	72.9	
7	486	14.73	46.0	
8	503	17.39	52.4	
9	554	10.13	27.7	
10	616	6.85	16.9	
11	661	8.19	18.8	
12	710	6.76	14.4	
13	851	3.85	6.8	
14	10,380	75.00	10.9	Upper Marker
15	12,701	0.00	0.0	

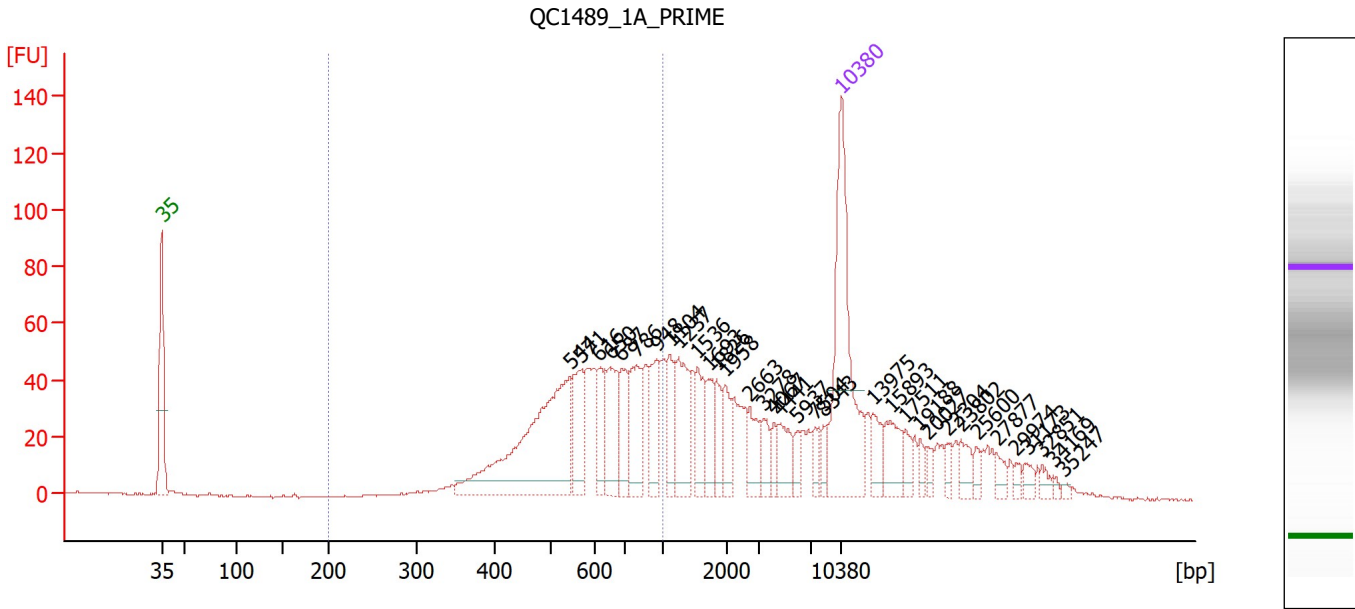
**Region table for sample 1 : AVT0032 JA AQ**

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	483.5	85	498	30.4	334.13	1,140.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : QC1489 1A PRIME**

Number of peaks found: 34                      Corr. Area 1: 752.7  
 Noise: 0.3

**Peak table for sample 2 : QC1489 1A PRIME**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	544	129.06	359.7	
3	571	30.60	81.3	
4	616	17.63	43.4	
5	650	31.46	73.3	
6	687	22.60	49.8	
7	786	30.46	58.7	
8	948	22.06	35.3	
9	1,104	18.24	25.0	
10	1,237	29.73	36.4	
11	1,536	18.50	18.3	
12	1,693	13.79	12.3	
13	1,826	11.37	9.4	
14	1,958	12.55	9.7	
15	2,663	13.17	7.5	
16	3,278	9.68	4.5	
17	4,067	6.29	2.3	
18	4,441	12.97	4.4	
19	5,937	5.65	1.4	
20	7,504	6.27	1.3	
21	8,343	5.92	1.1	
22	10,380	75.00	10.9	Upper Marker
23	13,975	0.00	0.0	
24	15,893	0.00	0.0	
25	17,511	0.00	0.0	
26	19,188	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : QC1489 1A PRIME**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	20,027	0.00	0.0	
28	22,304	0.00	0.0	
29	23,802	0.00	0.0	
30	25,600	0.00	0.0	
31	27,877	0.00	0.0	
32	29,974	0.00	0.0	
33	31,173	0.00	0.0	
34	32,851	0.00	0.0	
35	34,169	0.00	0.0	
36	35,247	0.00	0.0	

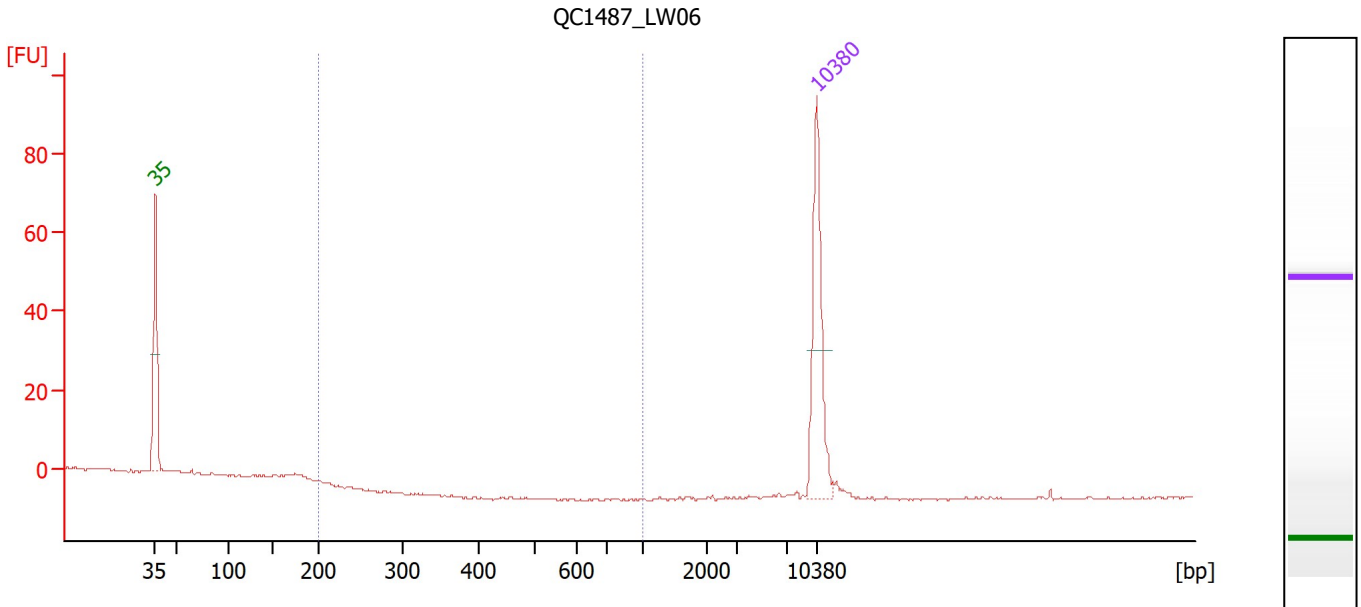
**Region table for sample 2 : QC1489 1A PRIME**

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	752.7	47	626	26.1	360.89	956.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : QC1487 LW06**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 3 : QC1487 LW06**

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 3 : QC1487 LW06**

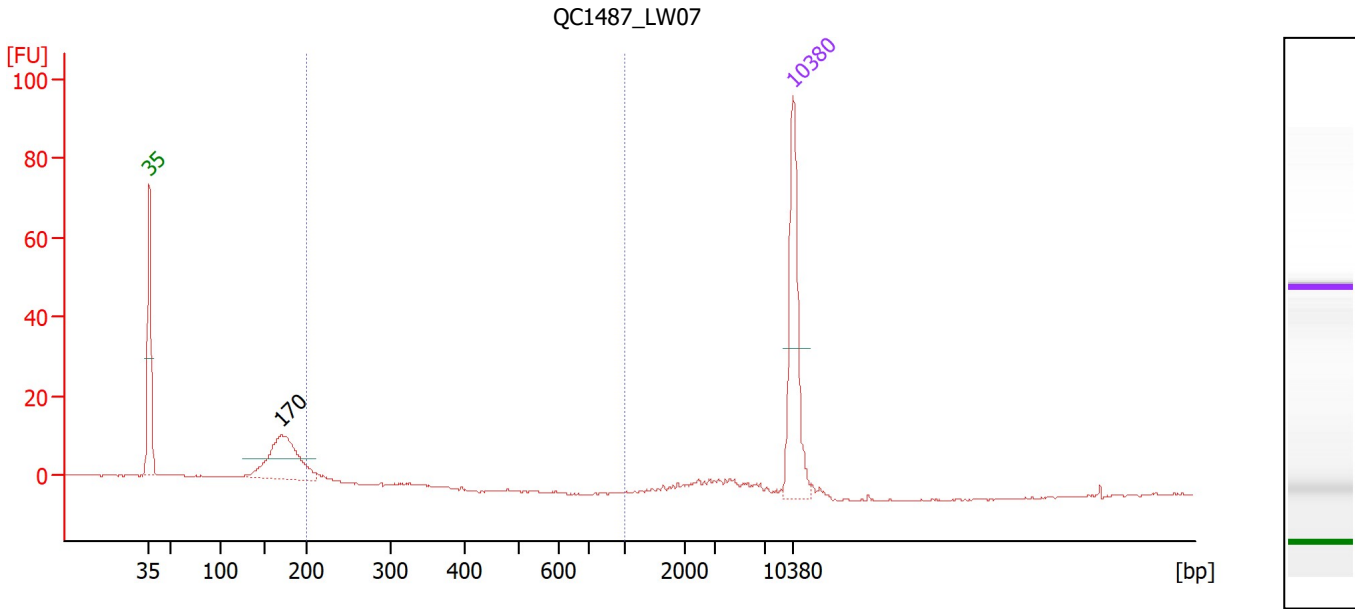
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.0	0	0	0.0	0.00	0.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : QC1487 LW07**

Number of peaks found: 1                      Corr. Area 1: 5.9  
 Noise: 0.2

**Peak table for sample 4 : QC1487 LW07**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	170	99.39	885.3	
3	10,380	75.00	10.9	Upper Marker

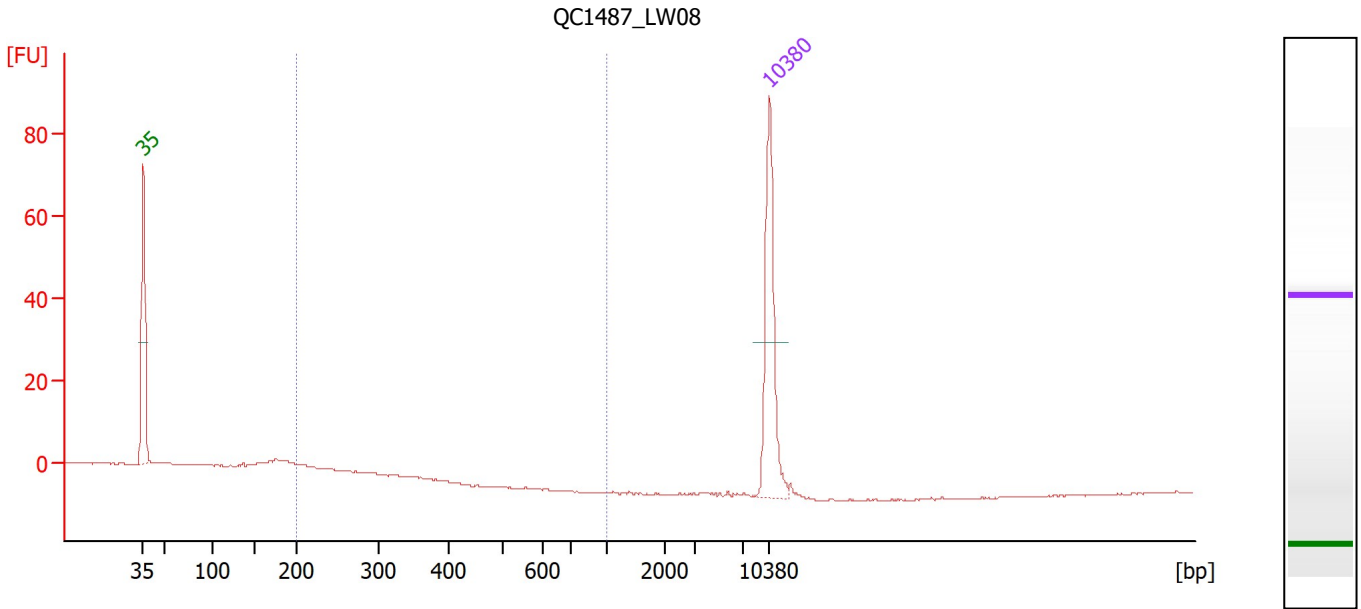
**Region table for sample 4 : QC1487 LW07**

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	5.9	7	208	3.5	7.86	57.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : QC1487 LW08**

Number of peaks found: 0                      Corr. Area 1: 3.1  
 Noise: 0.2

**Peak table for sample 5 : QC1487 LW08**

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

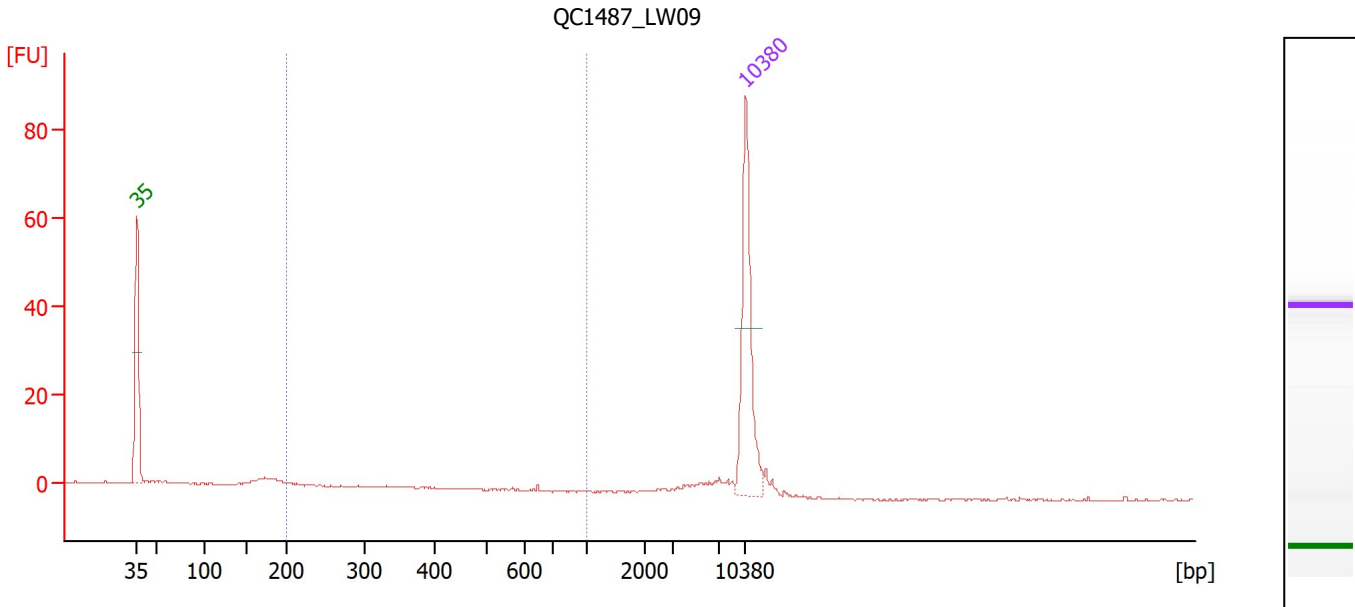
**Region table for sample 5 : QC1487 LW08**

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	3.1	14	214	5.3	4.43	31.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : QC1487 LW09**

Number of peaks found: 0                      Corr. Area 1: 2.8  
 Noise: 0.1

**Peak table for sample 6 : QC1487 LW09**

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

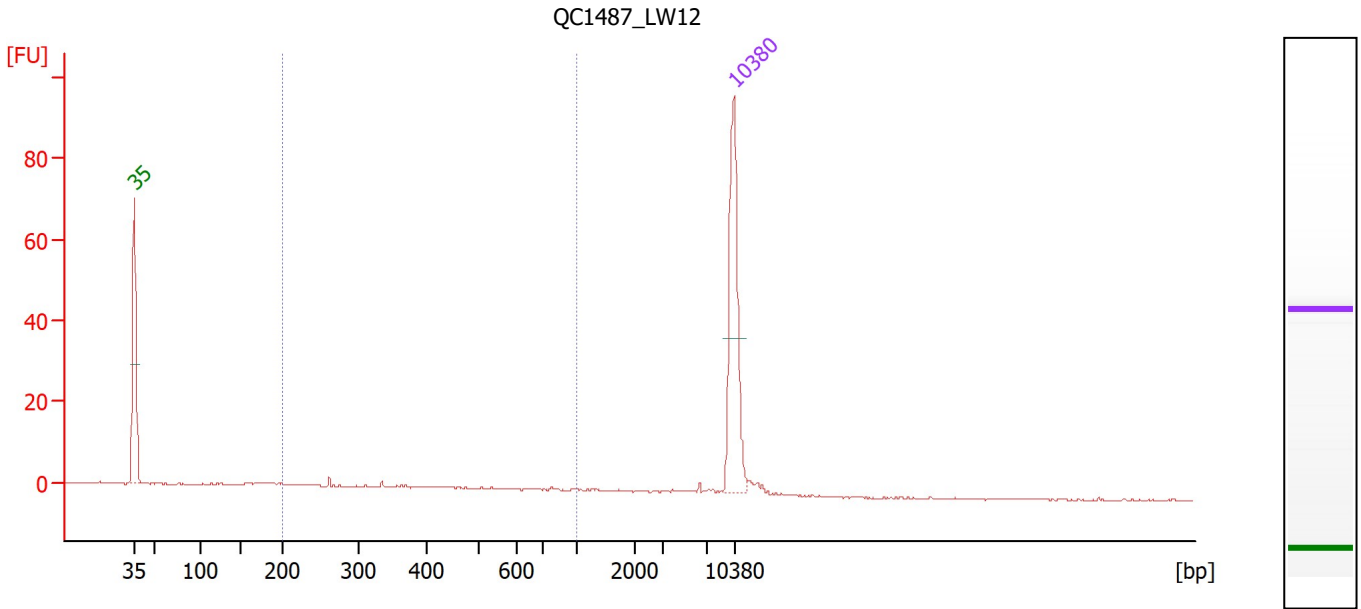
**Region table for sample 6 : QC1487 LW09**

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	2.8	9	316	46.8	3.87	22.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : QC1487 LW12**

Number of peaks found: 0                      Corr. Area 1: 14.1  
 Noise: 0.2

**Peak table for sample 7 : QC1487 LW12**

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

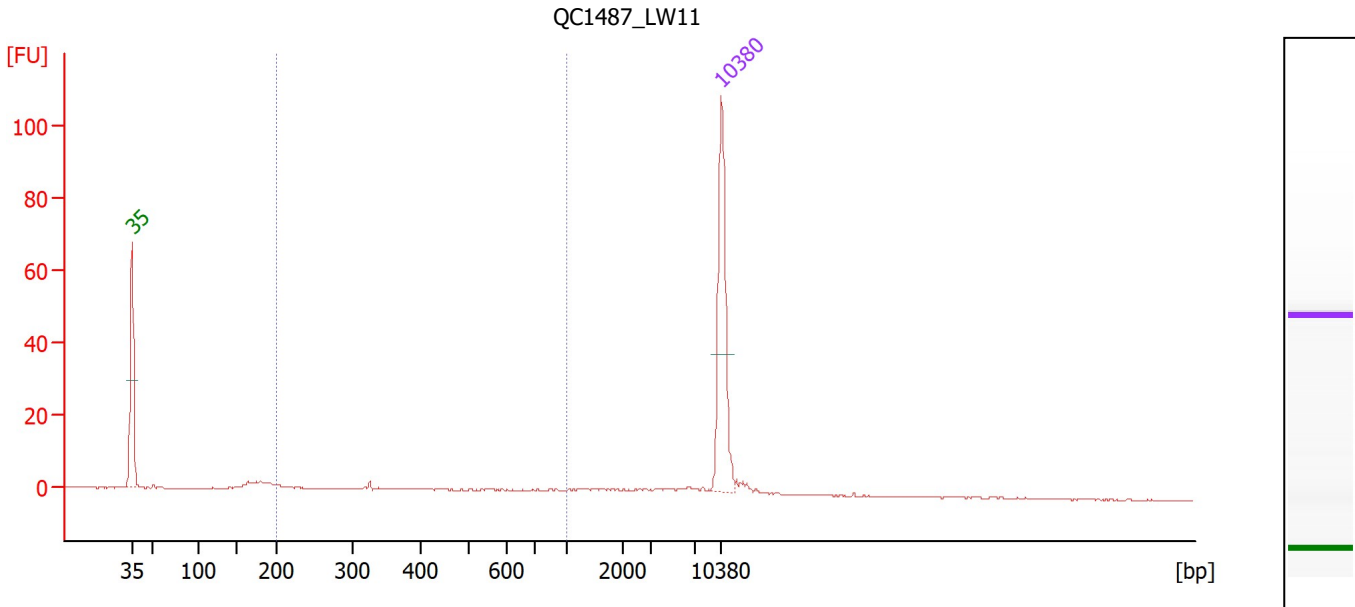
**Region table for sample 7 : QC1487 LW12**

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	14.1	41	418	42.6	16.73	75.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : QC1487 LW11**

Number of peaks found: 0                      Corr. Area 1: 28.8  
 Noise: 0.2

**Peak table for sample 8 : QC1487 LW11**

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

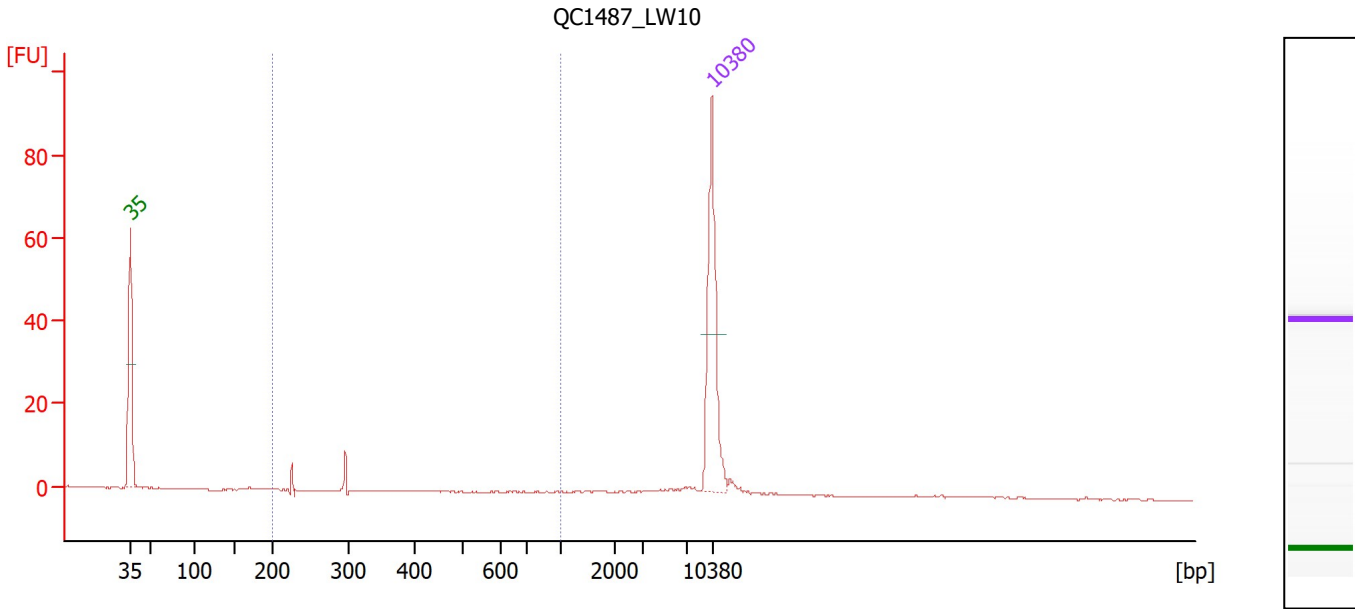
**Region table for sample 8 : QC1487 LW11**

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	28.8	36	467	43.8	33.01	139.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : QC1487 LW10**

Number of peaks found: 0                      Corr. Area 1: 8.0  
 Noise: 0.1

**Peak table for sample 9 : QC1487 LW10**

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

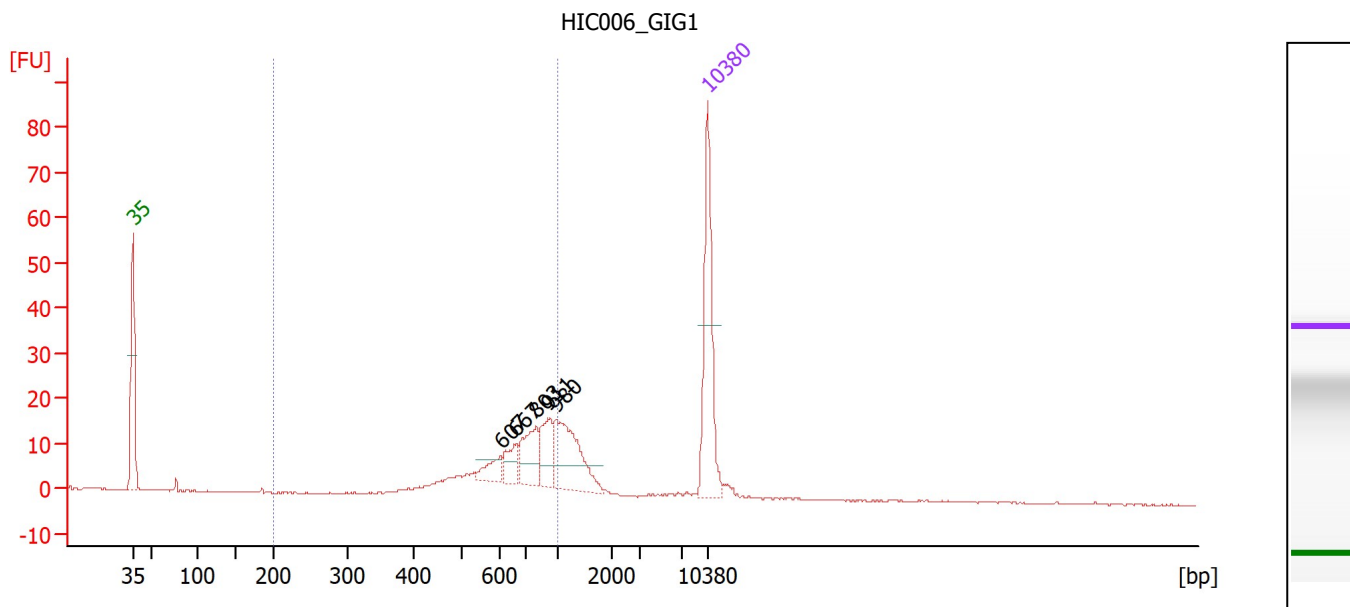
**Region table for sample 9 : QC1487 LW10**

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	8.0	24	384	54.8	10.87	54.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HIC006\_GIG1**

Number of peaks found: 5                      Corr. Area 1: 143.6  
 Noise: 0.2

**Peak table for sample 10 : HIC006\_GIG1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	607	15.62	39.0	
3	667	17.95	40.8	
4	803	33.31	62.8	
5	911	27.79	46.2	
6	980	60.55	93.6	
7	10,380	75.00	10.9	Upper Marker

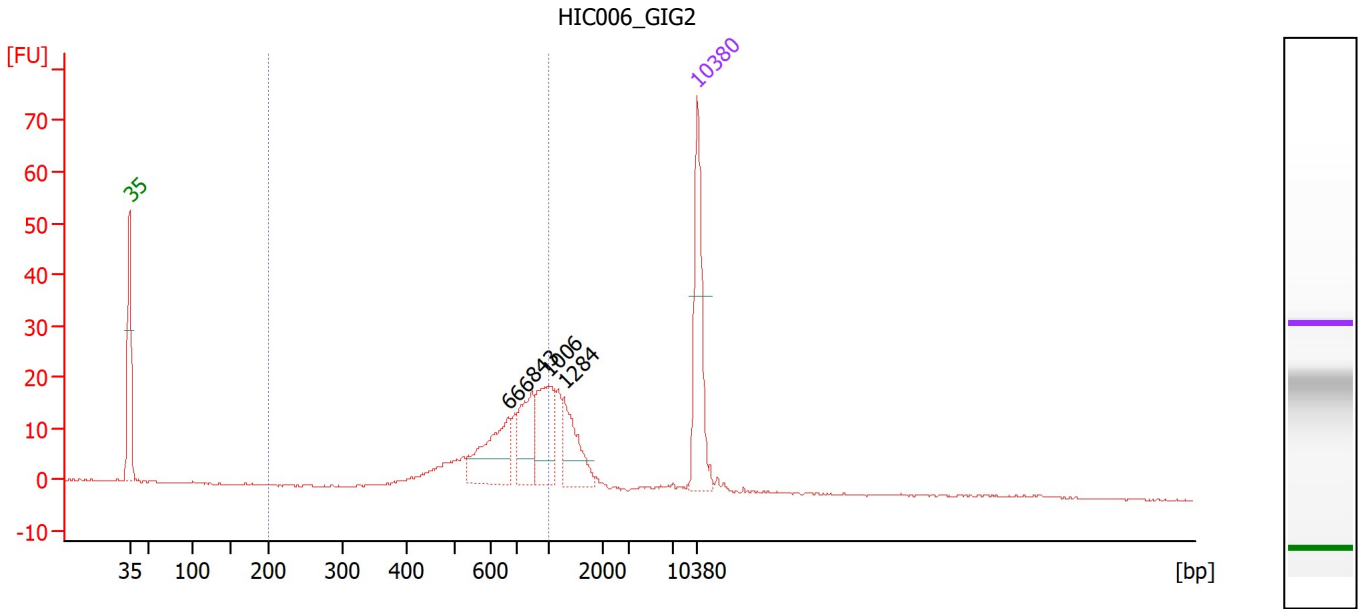
**Region table for sample 10 : HIC006\_GIG1**

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	143.6	67	696	23.7	177.33	417.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HIC006\_GIG2**

Number of peaks found: 4                      Corr. Area 1: 163.5  
 Noise: 0.1

**Peak table for sample 11 : HIC006\_GIG2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	666	66.88	152.1	
3	843	46.42	83.4	
4	1,006	58.80	88.5	
5	1,284	42.85	50.5	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : HIC006\_GIG2**

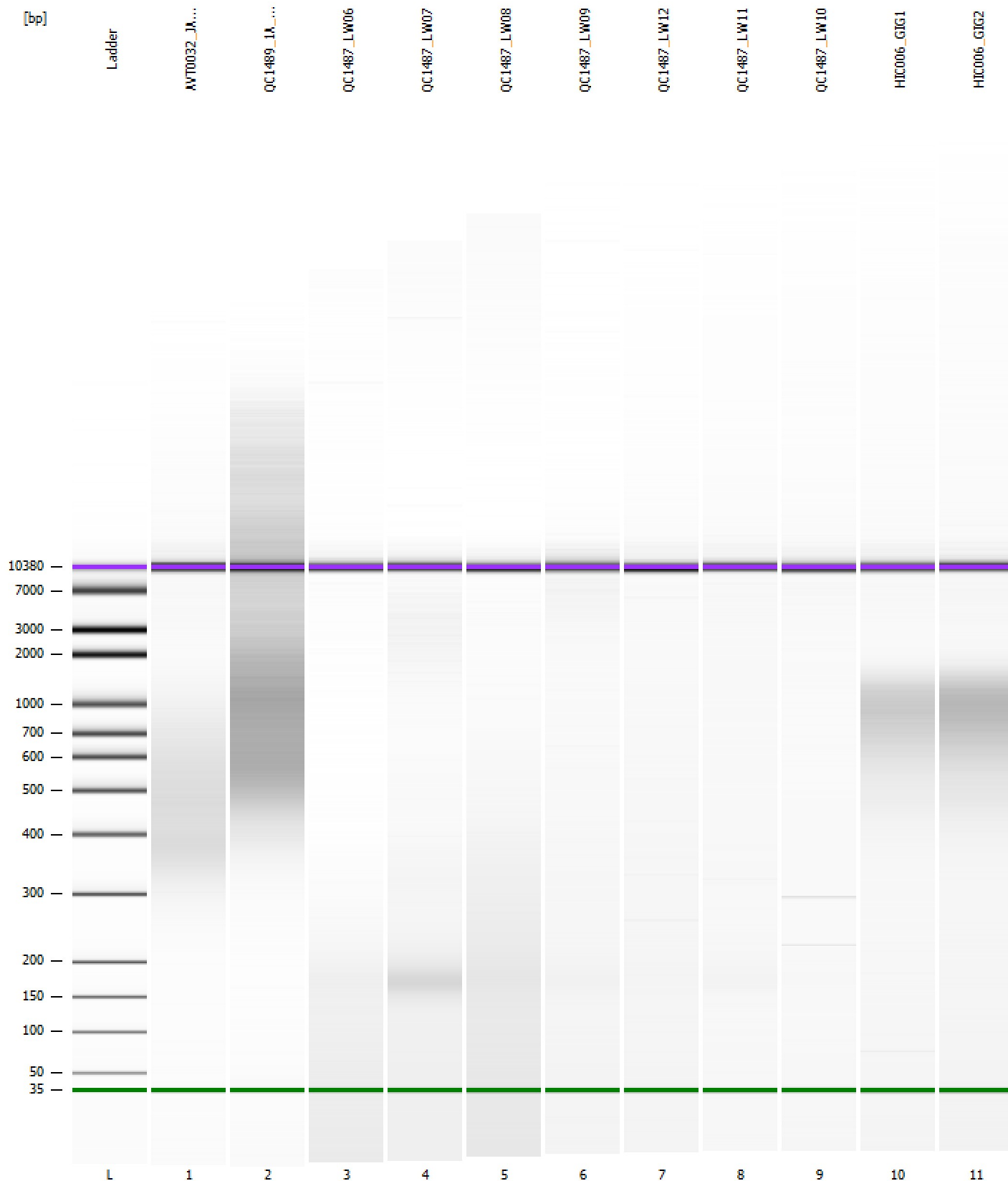
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	163.5	67	699	23.2	224.91	525.0	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
Modified: 5/22/2023 4:19:04 PM

Gel Image



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-05-22\_001.xad

Created: 5/22/2023 3:16:12 PM  
 Modified: 5/22/2023 4:19:04 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		5/22/2023 3:57:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-05-22\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-22_001.xad)		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/22/2023 3:16:18 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB