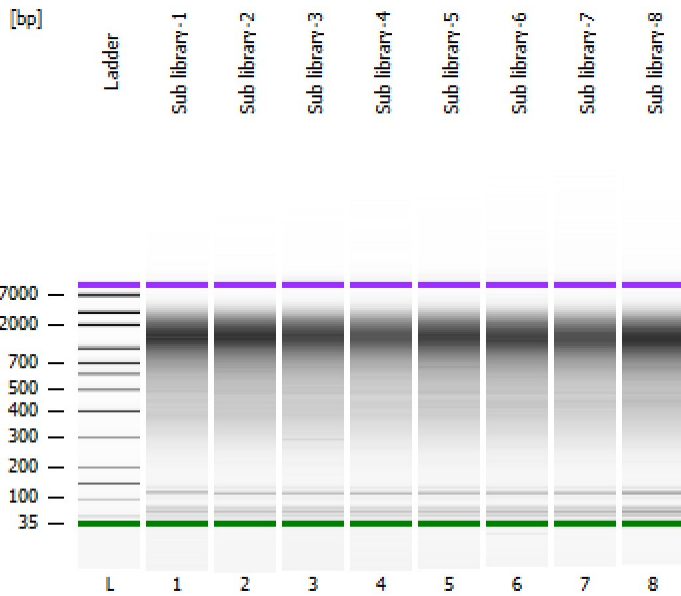


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
Modified: 10/6/2023 3:24:22 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

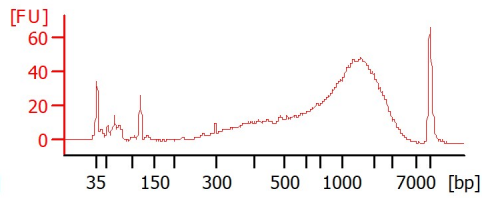
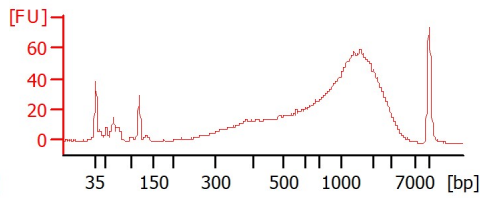
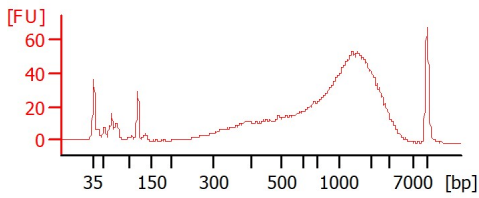
Chip Information:

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

Sub library-1

Sub library-2

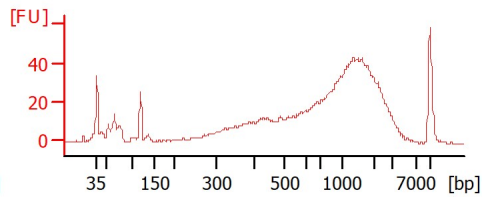
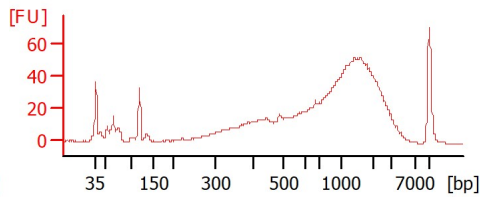
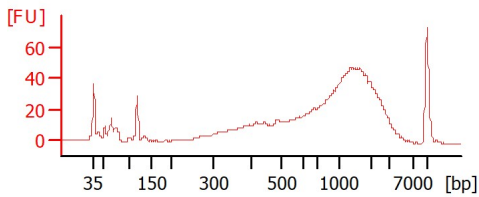
Sub library-3



Sub library-4

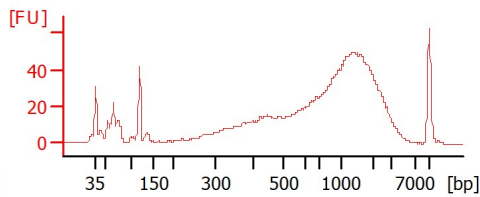
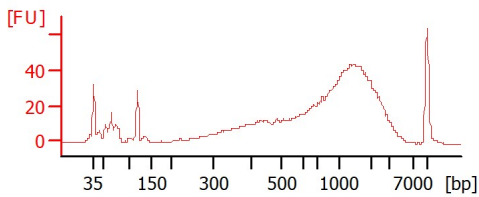
Sub library-5

Sub library-6



Sub library-7

Sub library-8



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
Modified: 10/6/2023 3:24:22 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sub library-1		<input type="checkbox"/>		✓		
Sub library-2		<input type="checkbox"/>		✓		
Sub library-3		<input type="checkbox"/>		✓		
Sub library-4		<input type="checkbox"/>		✓		
Sub library-5		<input type="checkbox"/>		✓		
Sub library-6		<input type="checkbox"/>		✓		
Sub library-7		<input type="checkbox"/>		✓		
Sub library-8		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
Modified: 10/6/2023 3:24:22 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

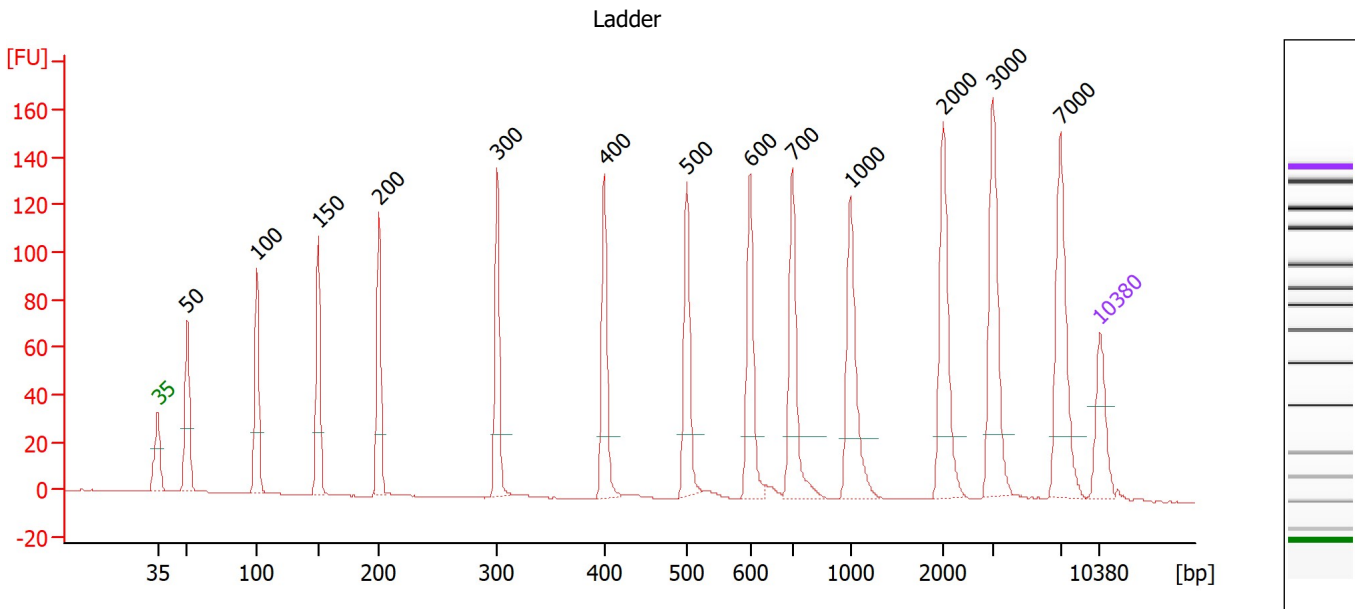
### Ladder

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:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

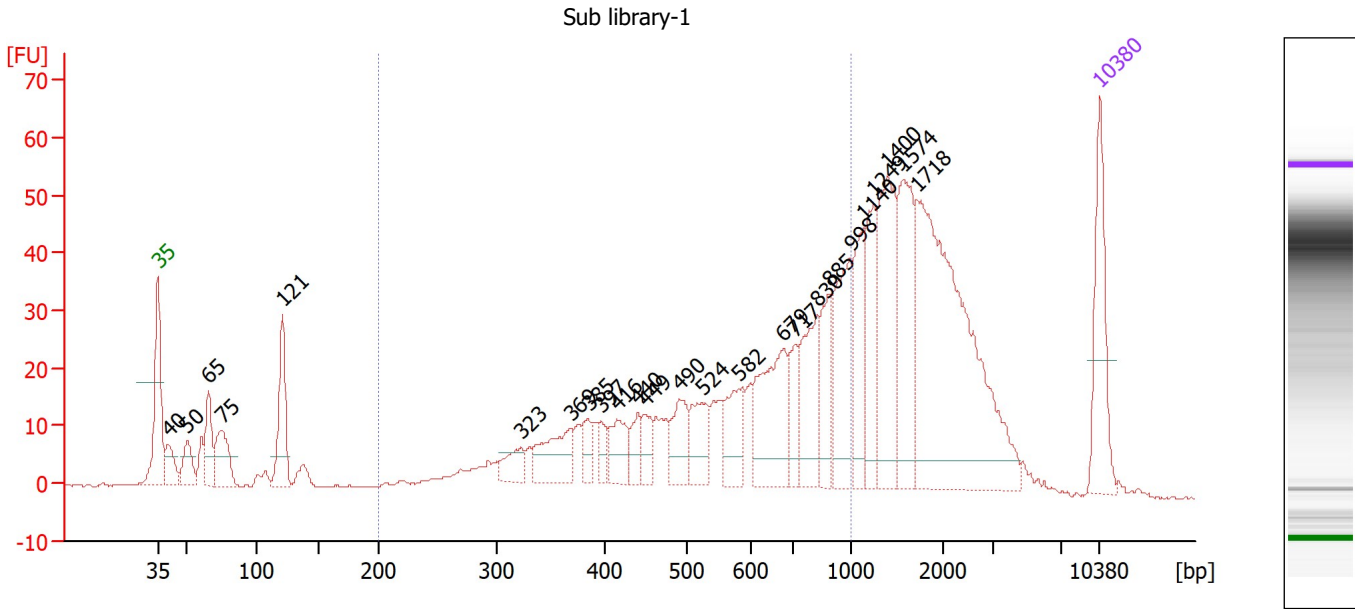
**Peak table for Ladder**

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:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sub library-1**

Number of peaks found: 25                      Corr. Area 1: 526.9  
 Noise: 0.1

**Peak table for sample 1 : Sub library-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	36.14	1,364.4	
3	50	36.96	1,117.9	
4	65	53.43	1,237.9	
5	75	62.11	1,255.4	
6	121	88.20	1,105.8	
7	323	28.92	135.8	
8	369	63.23	259.5	
9	385	21.36	84.0	
10	397	18.54	70.7	
11	416	36.75	133.9	
12	440	23.25	80.0	
13	449	24.63	83.1	
14	490	46.28	143.1	
15	524	49.24	142.5	
16	582	50.46	131.4	
17	679	115.98	258.7	
18	717	34.42	72.7	
19	830	77.92	142.2	
20	885	56.08	96.0	
21	998	92.54	140.5	
22	1,140	64.69	86.0	
23	1,249	74.41	90.3	
24	1,400	128.27	138.8	
25	1,574	105.23	101.3	
26	1,718	339.23	299.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 :**      Sub library-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

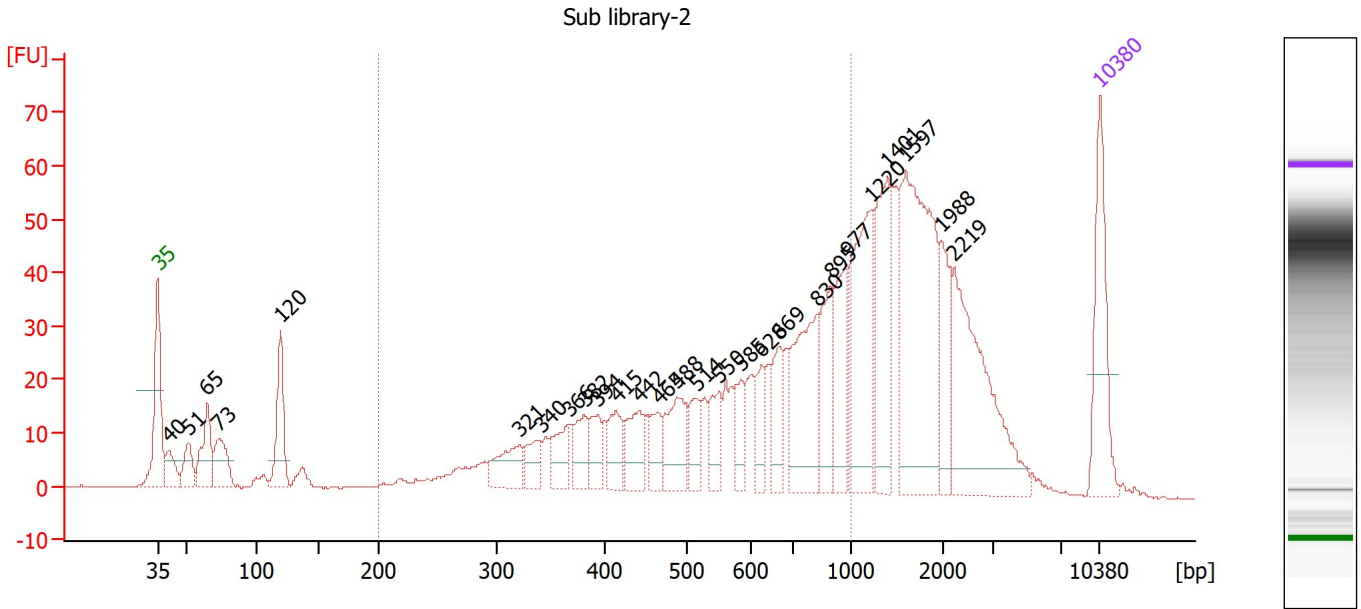
**Region table for sample 1 :**      Sub library-1

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	526.9	47	603	34.2	1,029.60	3,120.9	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sub library-2**

Number of peaks found: 27                      Corr. Area 1: 610.3  
 Noise: 0.2

**Peak table for sample 2 : Sub library-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	31.02	1,160.7	
3	51	31.74	940.9	
4	65	58.93	1,383.5	
5	73	50.39	1,043.4	
6	120	74.38	942.9	
7	321	43.44	205.3	
8	340	26.40	117.6	
9	366	34.88	144.2	
10	382	33.90	134.6	
11	394	29.65	114.0	
12	415	35.56	129.8	
13	442	41.23	141.2	
14	465	27.96	91.1	
15	488	58.29	180.8	
16	514	31.63	93.2	
17	550	33.37	91.8	
18	585	28.90	74.8	
19	628	27.91	67.4	
20	669	43.12	97.6	
21	830	103.04	188.2	
22	895	62.76	106.3	
23	977	63.90	99.1	
24	1,220	130.90	162.6	
25	1,401	100.24	108.4	
26	1,597	216.94	205.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : Sub library-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,988	49.76	37.9	
28	2,219	151.85	103.7	
29	10,380	75.00	10.9	Upper Marker

**Region table for sample 2 : Sub library-2**

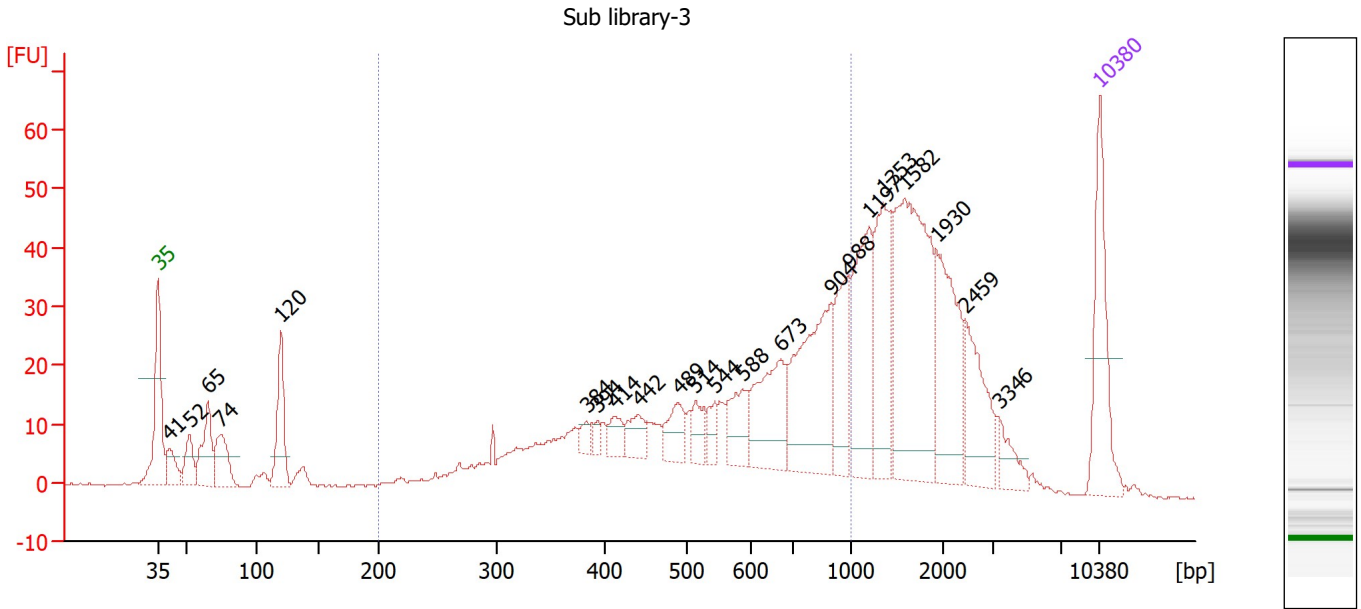
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	610.3	49	594	34.8	1,024.38	3,172.4	■



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sub library-3**

Number of peaks found: 22                      Corr. Area 1: 495.6  
 Noise: 0.2

**Peak table for sample 3 : Sub library-3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	31.45	1,163.2	
3	52	33.95	988.1	
4	65	60.63	1,417.8	
5	74	52.08	1,065.0	
6	120	73.02	922.2	
7	384	10.05	39.6	
8	394	8.65	33.3	
9	414	17.57	64.4	
10	442	23.96	82.1	
11	489	30.92	95.8	
12	514	19.85	58.5	
13	544	14.68	40.9	
14	588	39.39	101.6	
15	673	84.26	189.8	
16	904	133.29	223.3	
17	988	63.16	96.8	
18	1,197	100.40	127.0	
19	1,353	89.12	99.8	
20	1,582	202.67	194.1	
21	1,930	93.83	73.7	
22	2,459	59.15	36.4	
23	3,346	19.83	9.0	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**

... Region table for sample 3 :

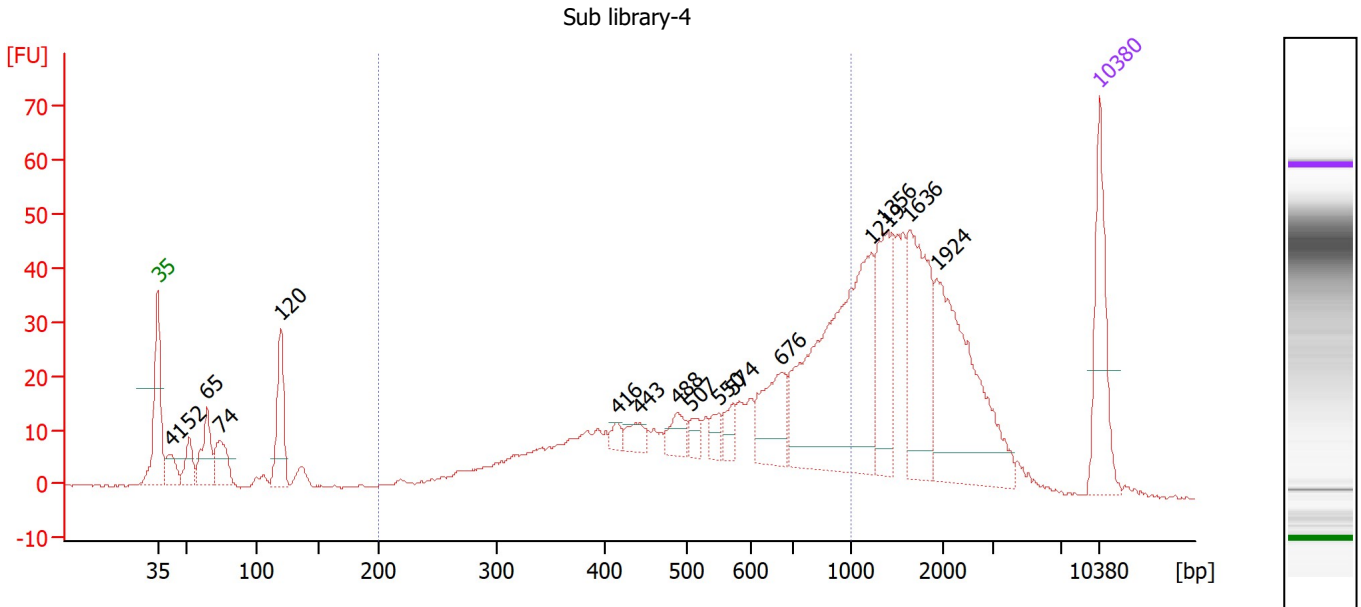
Sub library-3

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	495.6	48	596	34.8	907.06	2,801.7	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sub library-4**

Number of peaks found: 16      Corr. Area 1: 476.4  
 Noise: 0.2

**Peak table for sample 4 : Sub library-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	29.86	1,100.5	
3	52	32.02	939.7	
4	65	58.09	1,360.9	
5	74	46.82	962.7	
6	120	77.20	978.2	
7	416	9.74	35.5	
8	443	17.73	60.6	
9	488	23.58	73.2	
10	507	13.30	39.7	
11	550	13.61	37.5	
12	574	18.36	48.5	
13	676	66.96	150.1	
14	1,219	271.73	337.6	
15	1,356	86.96	97.2	
16	1,636	119.12	110.3	
17	1,924	172.71	136.0	
18	10,380	75.00	10.9	Upper Marker

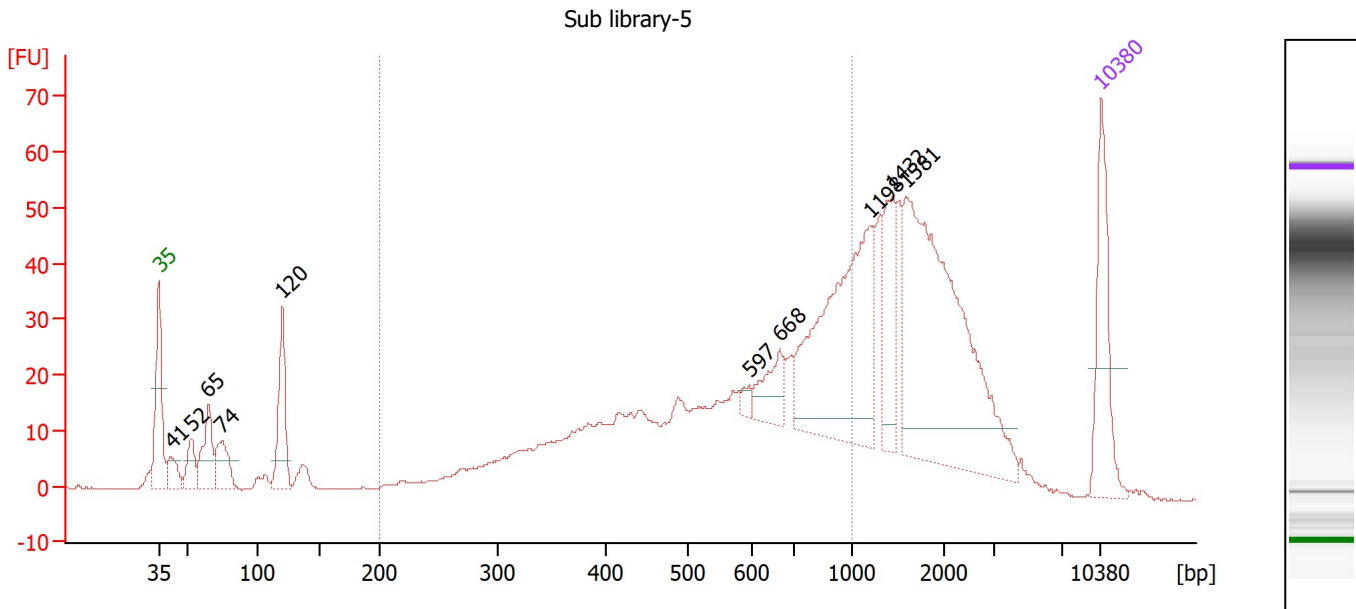
**Region table for sample 4 : Sub library-4**

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	476.4	48	599	34.5	856.51	2,622.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sub library-5**

Number of peaks found: 10                      Corr. Area 1: 537.0  
 Noise: 0.2

**Peak table for sample 5 : Sub library-5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	28.36	1,040.5	
3	52	30.93	895.9	
4	65	60.56	1,417.7	
5	74	46.22	946.0	
6	120	82.94	1,049.7	
7	597	7.71	19.6	
8	668	39.20	88.9	
9	1,198	224.31	283.7	
10	1,432	62.42	66.0	
11	1,581	316.25	303.1	
12	10,380	75.00	10.9	Upper Marker

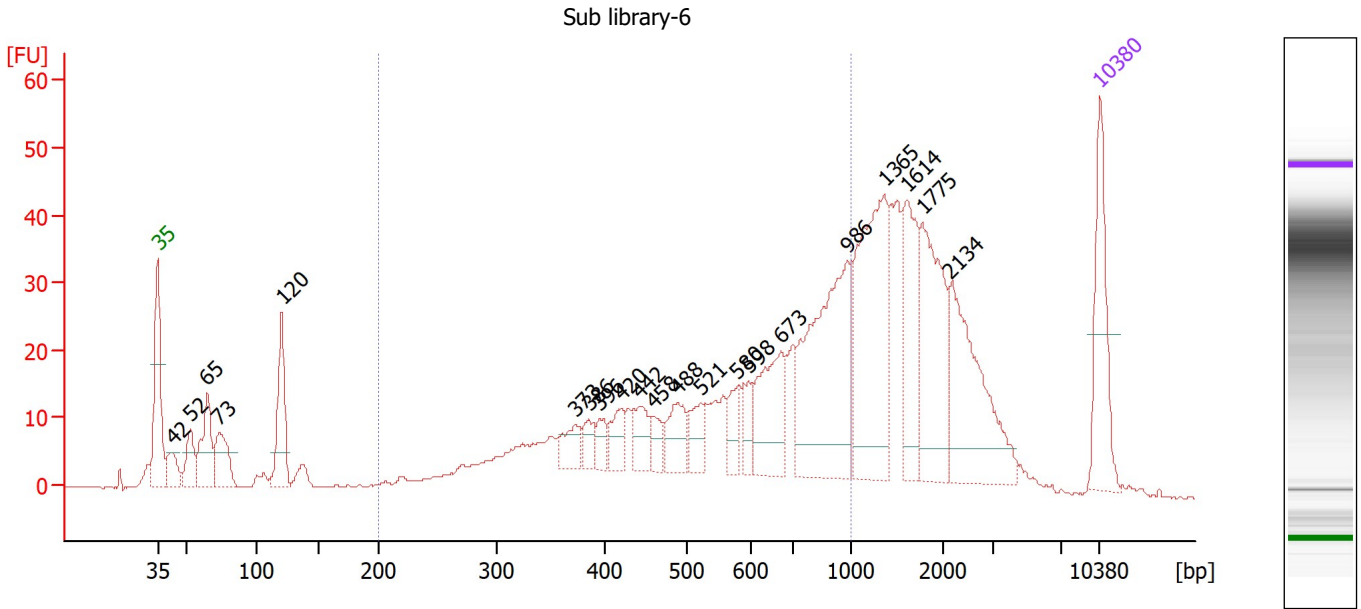
**Region table for sample 5 : Sub library-5**

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	537.0	49	599	34.6	924.16	2,832.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sub library-6**

Number of peaks found: 21                      Corr. Area 1: 448.0  
 Noise: 0.1

**Peak table for sample 6 : Sub library-6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	33.11	1,187.6	
3	52	38.78	1,119.5	
4	65	71.88	1,682.5	
5	73	55.97	1,157.7	
6	120	85.07	1,071.3	
7	373	28.43	115.6	
8	386	18.79	73.8	
9	396	17.94	68.7	
10	420	26.45	95.5	
11	442	30.03	102.9	
12	458	19.89	65.8	
13	488	40.13	124.7	
14	521	31.52	91.6	
15	580	25.43	66.4	
16	598	22.06	55.9	
17	673	87.75	197.5	
18	986	204.90	314.9	
19	1,365	184.26	204.6	
20	1,614	82.53	77.5	
21	1,775	120.75	103.1	
22	2,134	129.96	92.3	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**

... Region table for sample 6 :

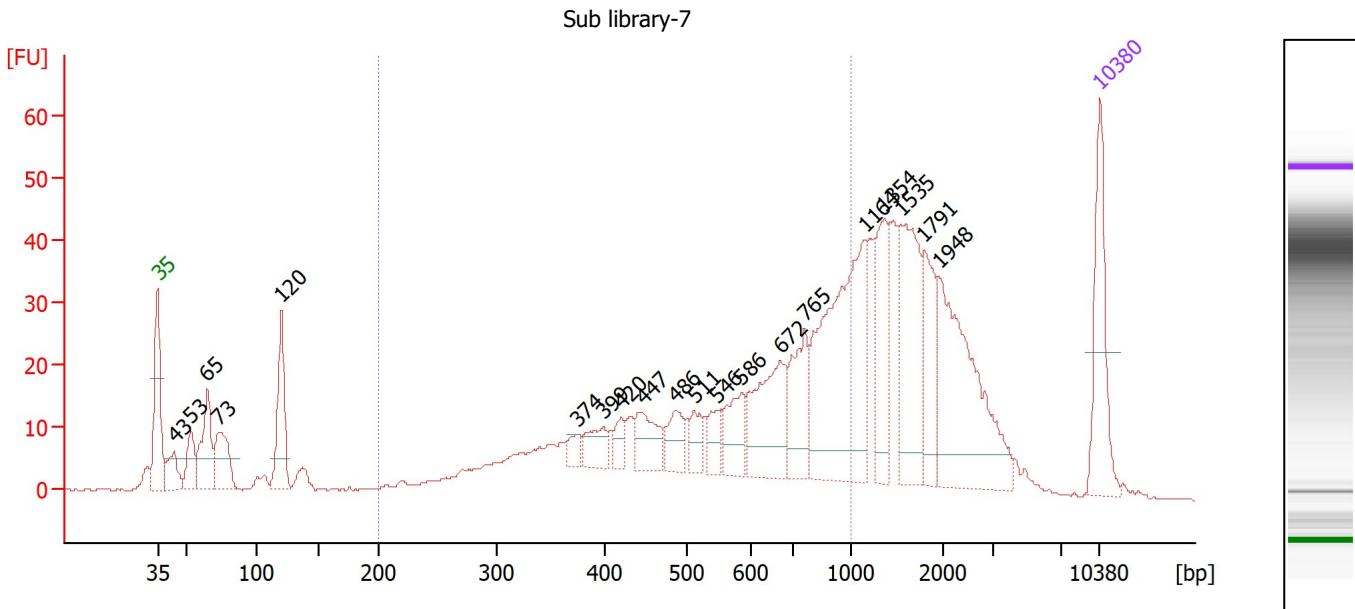
Sub library-6

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	448.0	49	596	34.9	994.93	3,071.7	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sub library-7**

Number of peaks found: 20      Corr. Area 1: 450.5  
 Noise: 0.1

**Peak table for sample 7 : Sub library-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	36.36	1,274.8	
3	53	38.61	1,113.5	
4	65	75.34	1,768.1	
5	73	62.67	1,295.4	
6	120	89.29	1,129.1	
7	374	15.04	61.0	
8	399	30.57	115.9	
9	420	18.55	66.8	
10	447	41.23	139.8	
11	486	31.92	99.4	
12	511	22.79	67.6	
13	546	23.15	64.2	
14	586	43.83	113.3	
15	672	100.73	227.2	
16	765	67.50	133.8	
17	1,164	226.10	294.4	
18	1,354	74.30	83.2	
19	1,535	110.98	109.5	
20	1,791	59.65	50.5	
21	1,948	160.76	125.0	
22	10,380	75.00	10.9	Upper Marker

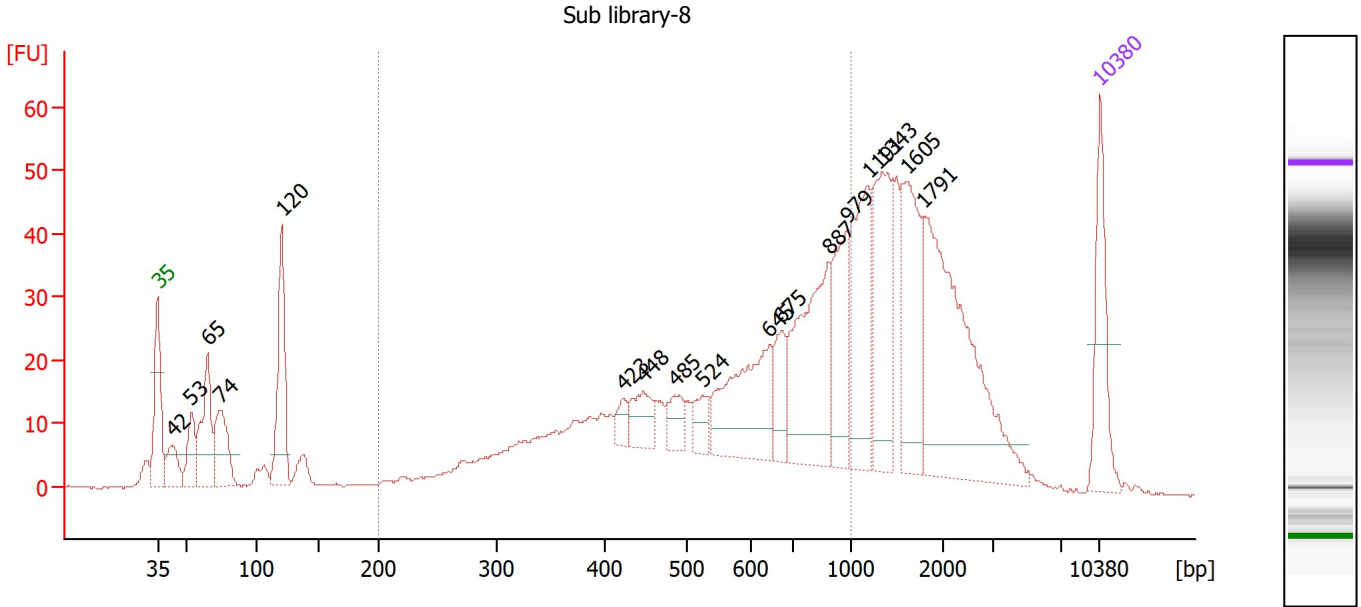
**Region table for sample 7 : Sub library-7**

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	450.5	48	598	34.6	938.42	2,886.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
 Modified: 10/6/2023 3:24:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sub library-8**

Number of peaks found: 17      Corr. Area 1: 519.5  
 Noise: 0.2

**Peak table for sample 8 : Sub library-8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	46.28	1,661.7	
3	53	51.23	1,462.8	
4	65	106.83	2,497.9	
5	74	83.90	1,724.0	
6	120	136.85	1,725.5	
7	423	18.00	64.4	
8	448	43.10	145.8	
9	485	30.70	95.8	
10	524	25.95	75.0	
11	645	144.99	340.4	
12	675	45.18	101.4	
13	887	172.97	295.5	
14	979	92.51	143.2	
15	1,191	131.65	167.4	
16	1,343	128.01	144.4	
17	1,605	115.65	109.2	
18	1,791	269.43	228.0	
19	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : Sub library-8**

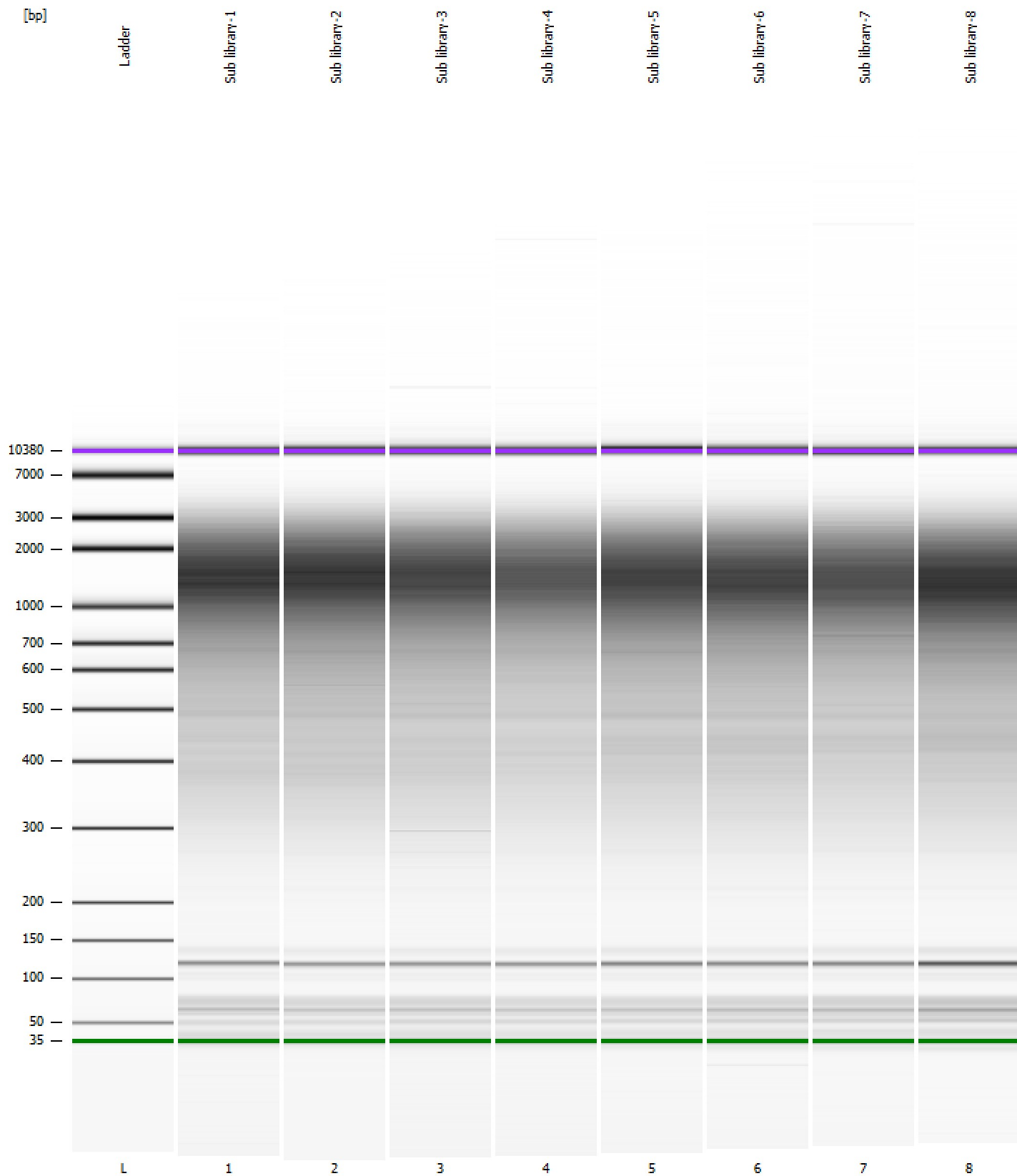
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	519.5	48	602	34.3	1,184.61	3,606.1	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
Modified: 10/6/2023 3:24:22 PM

Gel Image

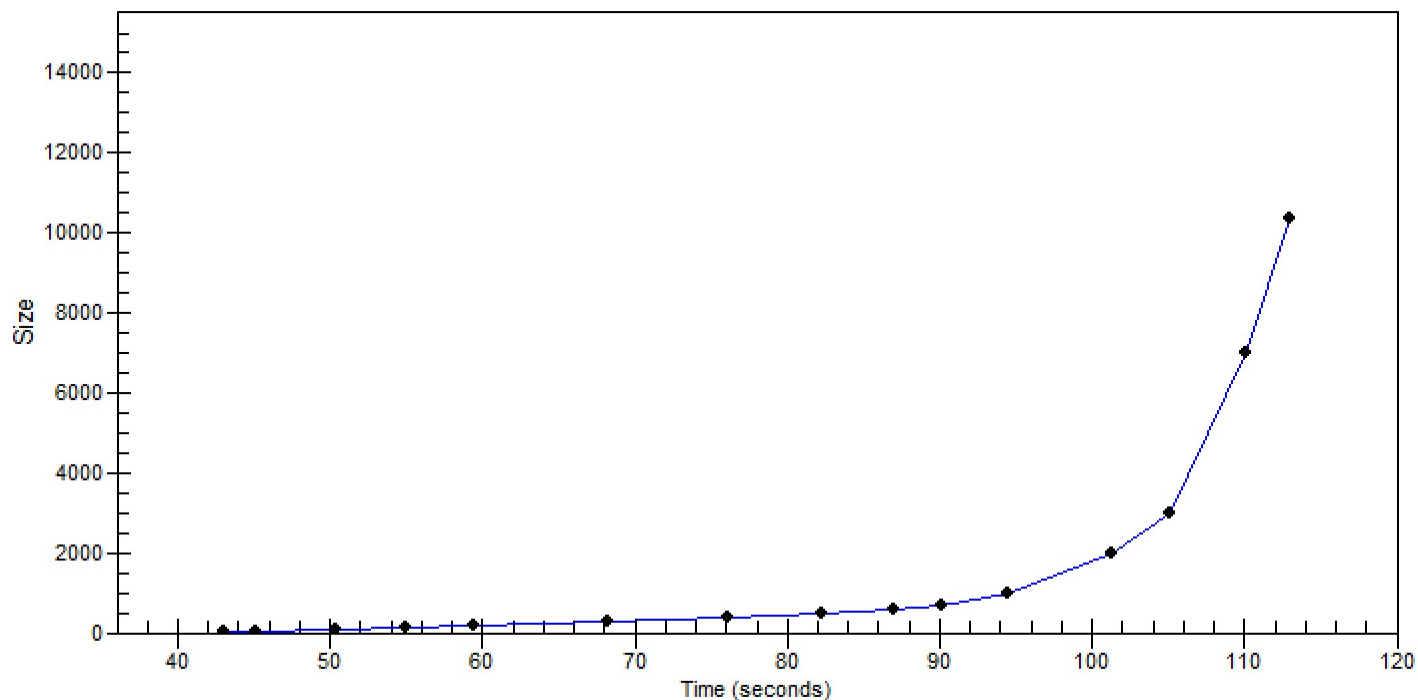


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad

Created: 10/6/2023 2:37:41 PM  
Modified: 10/6/2023 3:24:22 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay Created: 10/6/2023 2:37:41 PM  
 Data Path: C:\...bioanalyzer\2100 expert\data\2023-10-06\CUSTOM0070 cDNA.xad Modified: 10/6/2023 3:24:22 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		10/6/2023 3:18:03 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-10-06\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-10-06_003.xad)		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		10/6/2023 2:37:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB