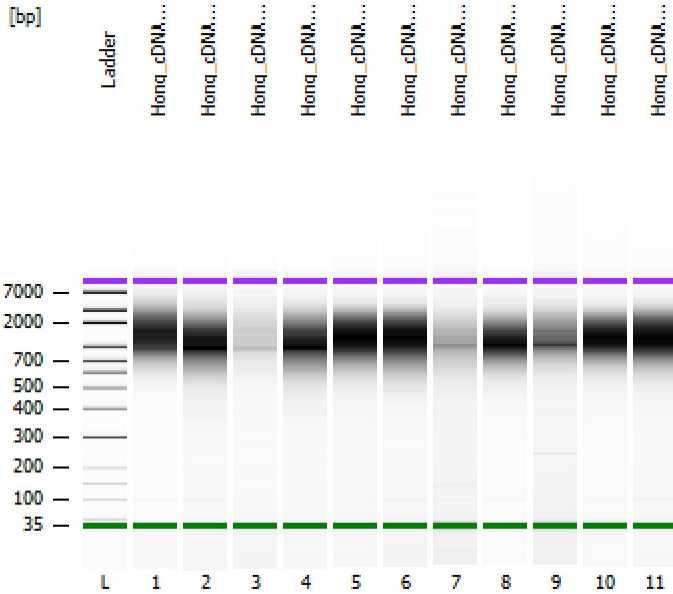


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
Modified: 6/14/2024 4:32:46 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

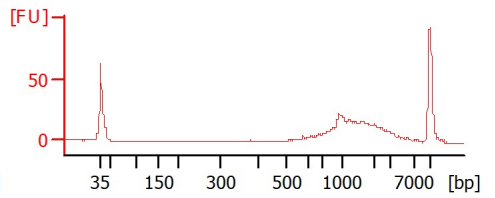
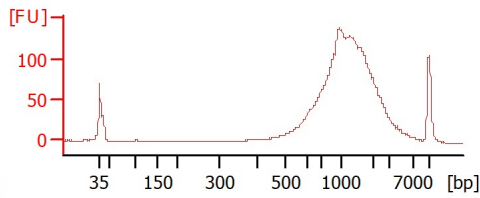
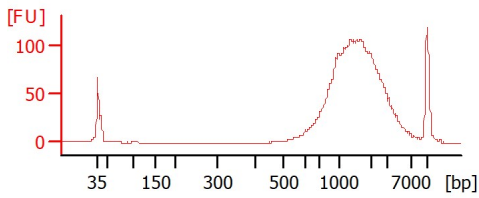
Chip Information:

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

Hong\_cDNA\_10

Hong\_cDNA\_11

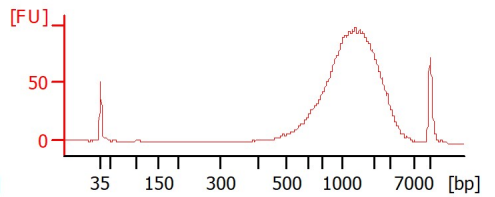
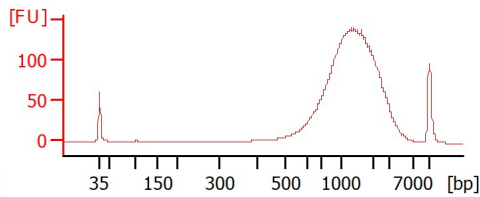
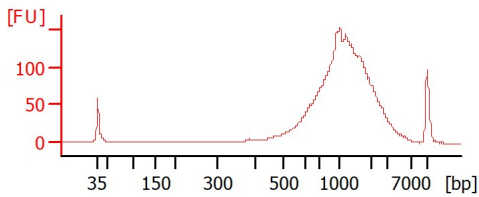
Hong\_cDNA\_12



Hong\_cDNA\_13

Hong\_cDNA\_14

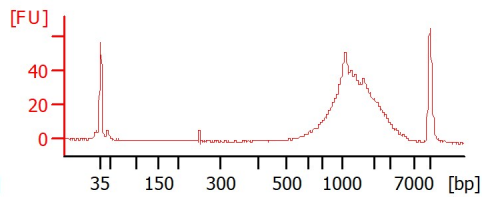
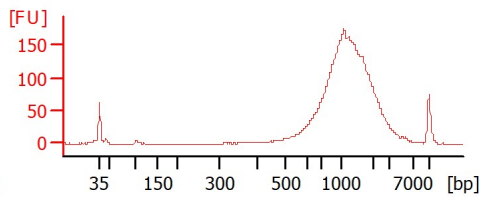
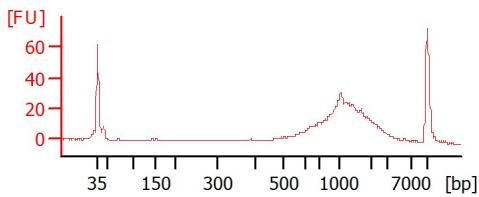
Hong\_cDNA\_15



Hong\_cDNA\_16

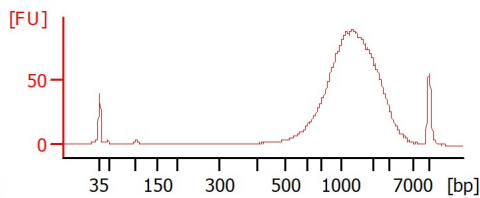
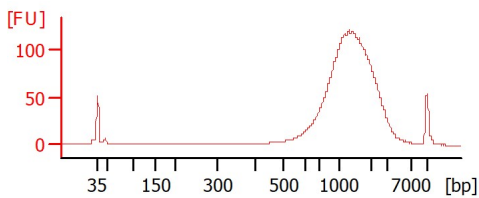
Hong\_cDNA\_17

Hong\_cDNA\_18



Hong\_cDNA\_19

Hong\_cDNA\_20



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hong_cDNA_10		<input type="checkbox"/>		✓		
Hong_cDNA_11		<input type="checkbox"/>		✓		
Hong_cDNA_12		<input type="checkbox"/>		✓		
Hong_cDNA_13		<input type="checkbox"/>		✓		
Hong_cDNA_14		<input type="checkbox"/>		✓		
Hong_cDNA_15		<input type="checkbox"/>		✓		
Hong_cDNA_16		<input type="checkbox"/>		✓		
Hong_cDNA_17		<input type="checkbox"/>		✓		
Hong_cDNA_18		<input type="checkbox"/>		✓		
Hong_cDNA_19		<input type="checkbox"/>		✓		
Hong_cDNA_20		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 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

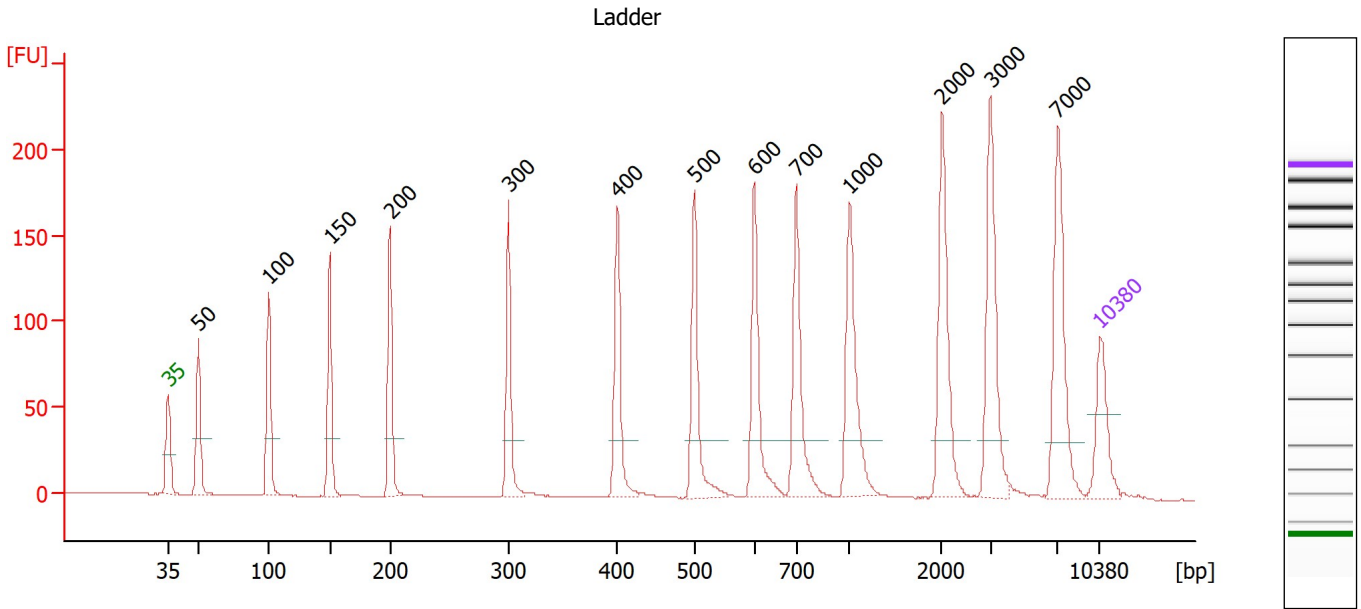
**Ladder**

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:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

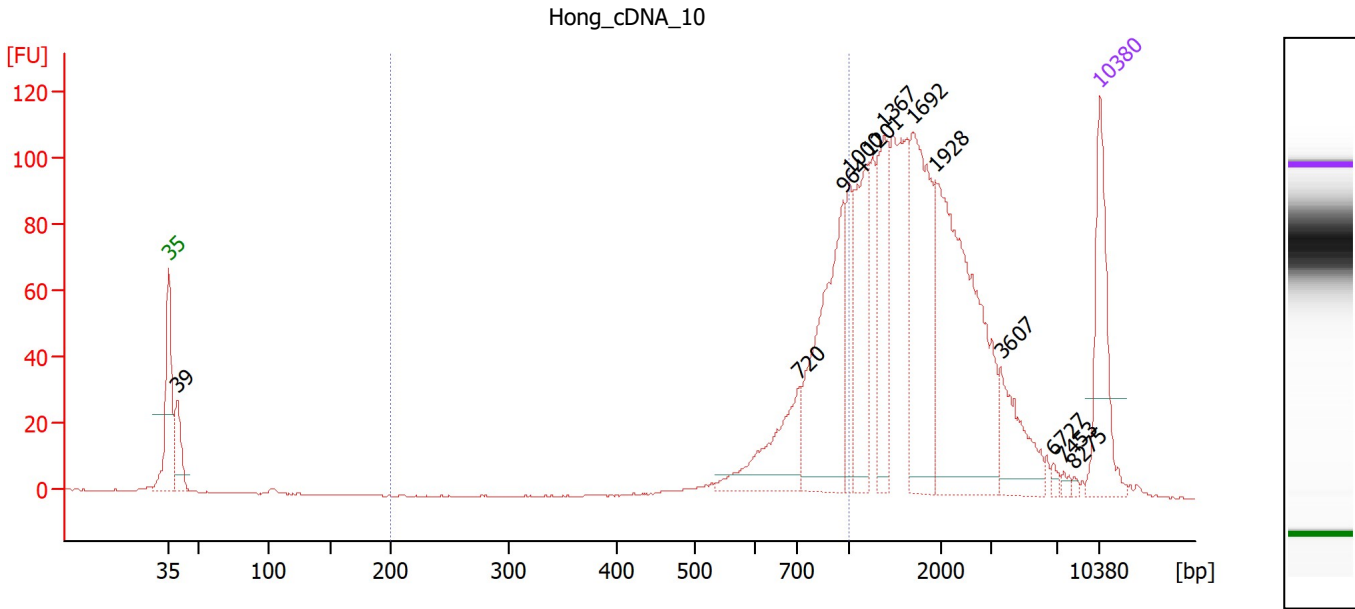
**Peak table for Ladder**

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:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Hong\_cDNA\_10**

Number of peaks found: 12                      Corr. Area 1: 354.2  
 Noise: 0.2

**Peak table for sample 1 : Hong\_cDNA\_10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	54.24	2,095.1	
3	720	84.51	177.9	
4	964	166.81	262.2	
5	1,000	49.14	74.4	
6	1,201	90.95	114.8	
7	1,367	81.22	90.0	
8	1,692	144.39	129.3	
9	1,928	240.27	188.8	
10	3,607	54.97	23.1	
11	6,727	3.81	0.9	
12	7,453	3.27	0.7	
13	8,275	2.09	0.4	
14	10,380	75.00	10.9	Upper Marker

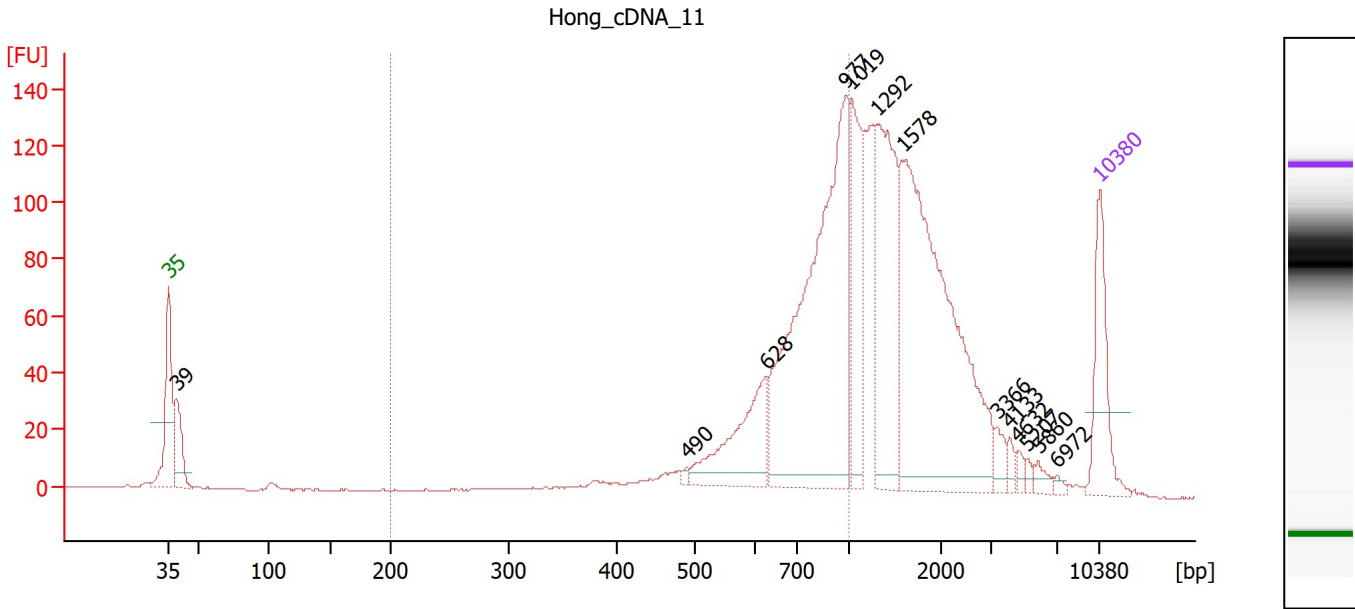
**Region table for sample 1 : Hong\_cDNA\_10**

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	354.2	24	808	17.0	308.88	601.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Hong\_cDNA\_11**

Number of peaks found: 13                      Corr. Area 1: 751.1  
 Noise: 0.2

**Peak table for sample 2 : Hong\_cDNA\_11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	72.51	2,821.9	
3	490	4.43	13.7	
4	628	121.68	293.6	
5	977	470.25	728.9	
6	1,019	115.00	170.9	
7	1,292	205.13	240.6	
8	1,578	431.79	414.6	
9	3,366	15.37	6.9	
10	4,133	8.24	3.0	
11	4,632	7.01	2.3	
12	5,207	5.17	1.5	
13	5,860	8.74	2.3	
14	6,972	3.84	0.8	
15	10,380	75.00	10.9	Upper Marker

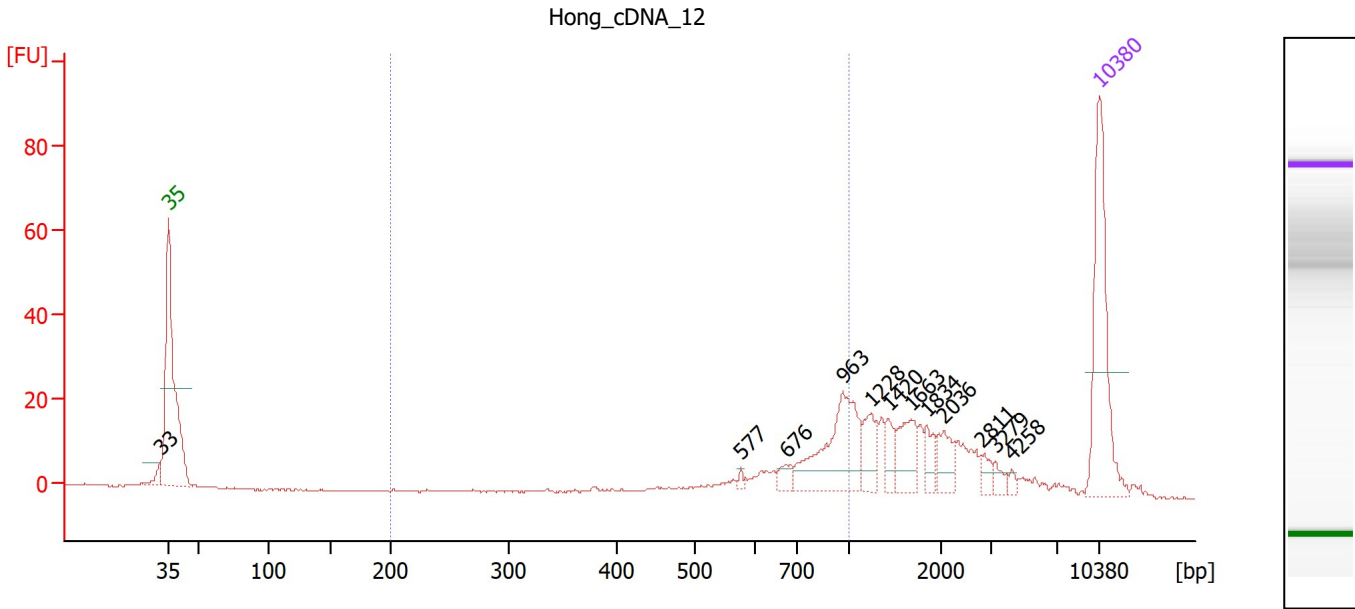
**Region table for sample 2 : Hong\_cDNA\_11**

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	751.1	39	750	22.3	740.83	1,630.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Hong\_cDNA\_12**

Number of peaks found: 12                      Corr. Area 1: 89.9  
 Noise: 0.2

**Peak table for sample 3 : Hong\_cDNA\_12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	577	2.57	6.8	
4	676	7.89	17.7	
5	963	72.66	114.3	
6	1,228	21.67	26.7	
7	1,420	10.92	11.6	
8	1,663	24.55	22.4	
9	1,834	10.25	8.5	
10	2,036	15.70	11.7	
11	2,811	6.53	3.5	
12	3,279	5.39	2.5	
13	4,258	2.82	1.0	
14	10,380	75.00	10.9	Upper Marker

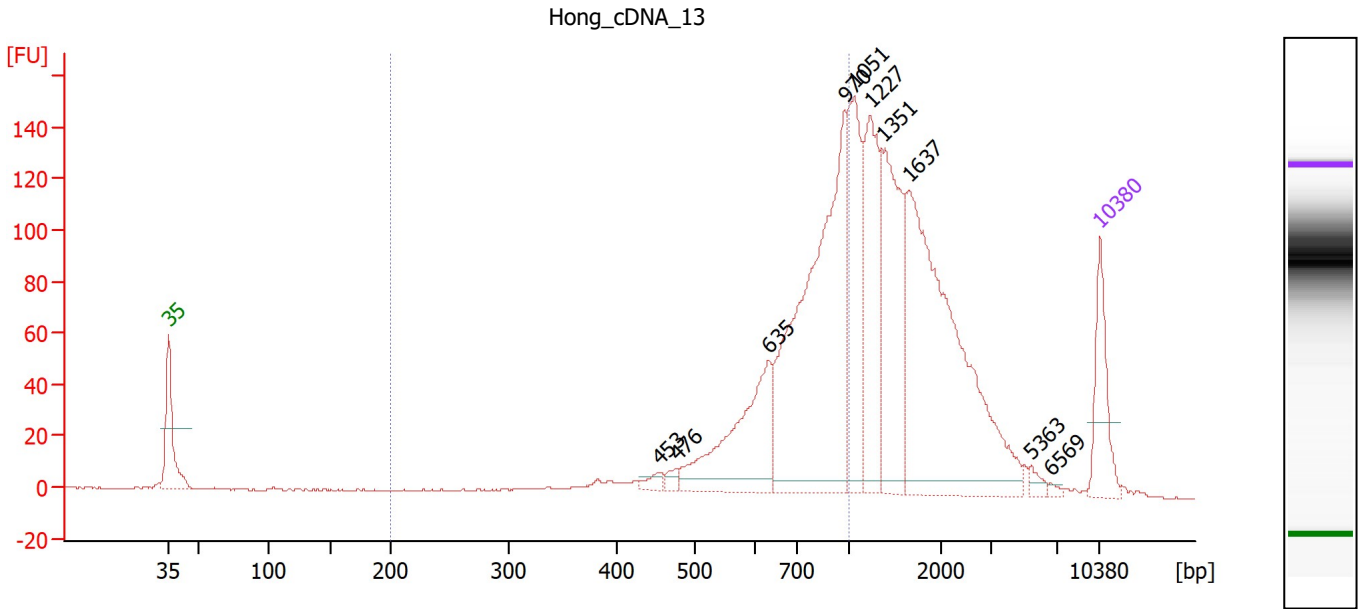
**Region table for sample 3 : Hong\_cDNA\_12**

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	89.9	32	775	20.8	97.75	203.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Hong\_cDNA\_13**

Number of peaks found: 10                      Corr. Area 1: 825.3  
 Noise: 0.2

**Peak table for sample 4 : Hong\_cDNA\_13**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	453	13.61	45.6	
3	476	11.51	36.6	
4	635	218.64	521.8	
5	970	540.07	843.8	
6	1,051	192.72	277.7	
7	1,227	198.80	245.5	
8	1,351	217.12	243.4	
9	1,637	507.16	469.5	
10	5,363	10.45	3.0	
11	6,569	4.03	0.9	
12	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Hong\_cDNA\_13**

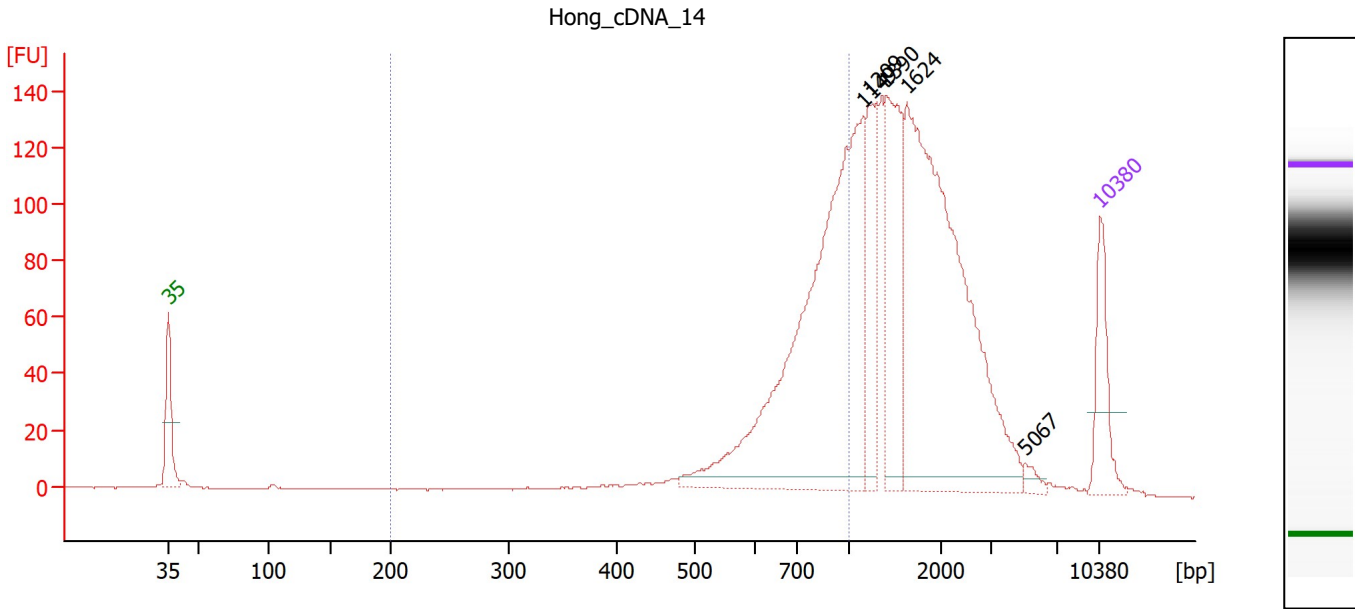
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	825.3	42	742	22.5	933.50	2,073.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Hong\_cDNA\_14**

Number of peaks found: 5                      Corr. Area 1: 620.5  
 Noise: 0.2

**Peak table for sample 5 : Hong\_cDNA\_14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,149	702.81	926.8	
3	1,209	140.74	176.3	
4	1,390	188.14	205.0	
5	1,624	652.87	608.9	
6	5,067	11.56	3.5	
7	10,380	75.00	10.9	Upper Marker

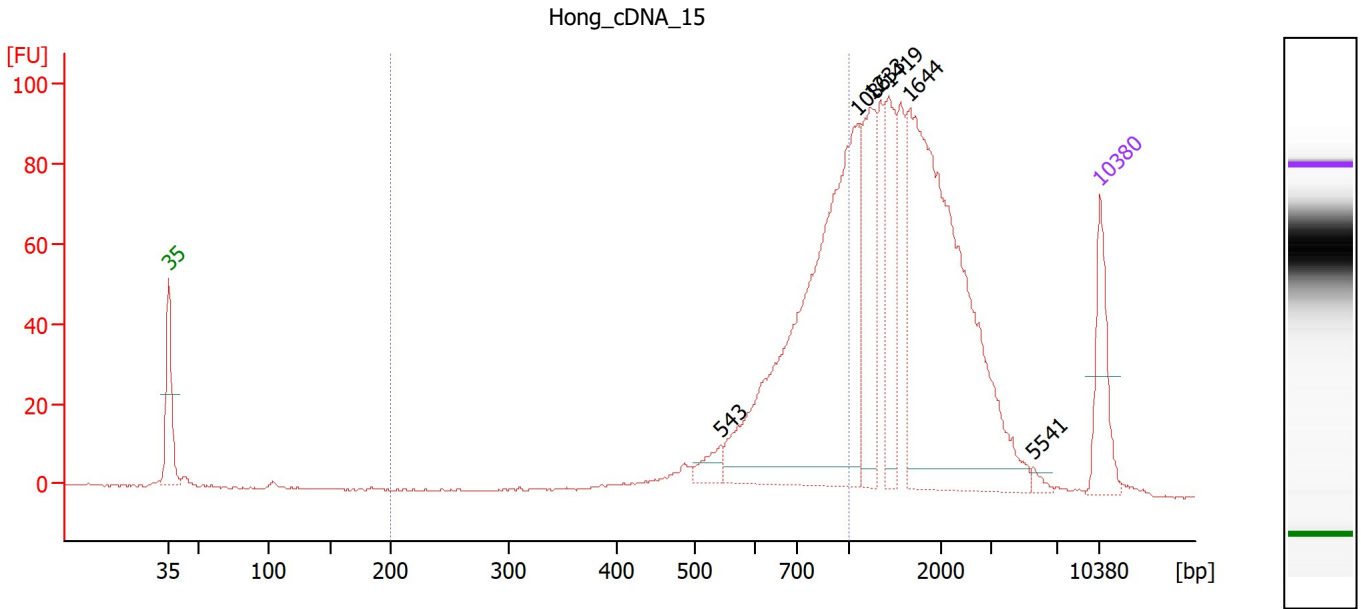
**Region table for sample 5 : Hong\_cDNA\_14**

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	620.5	33	762	21.2	708.31	1,526.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Hong\_cDNA\_15**

Number of peaks found: 6                      Corr. Area 1: 468.1  
 Noise: 0.2

**Peak table for sample 6 : Hong\_cDNA\_15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	543	26.57	74.1	
3	1,086	647.02	902.9	
4	1,233	145.15	178.3	
5	1,419	109.86	117.3	
6	1,644	591.16	544.7	
7	5,541	6.83	1.9	
8	10,380	75.00	10.9	Upper Marker

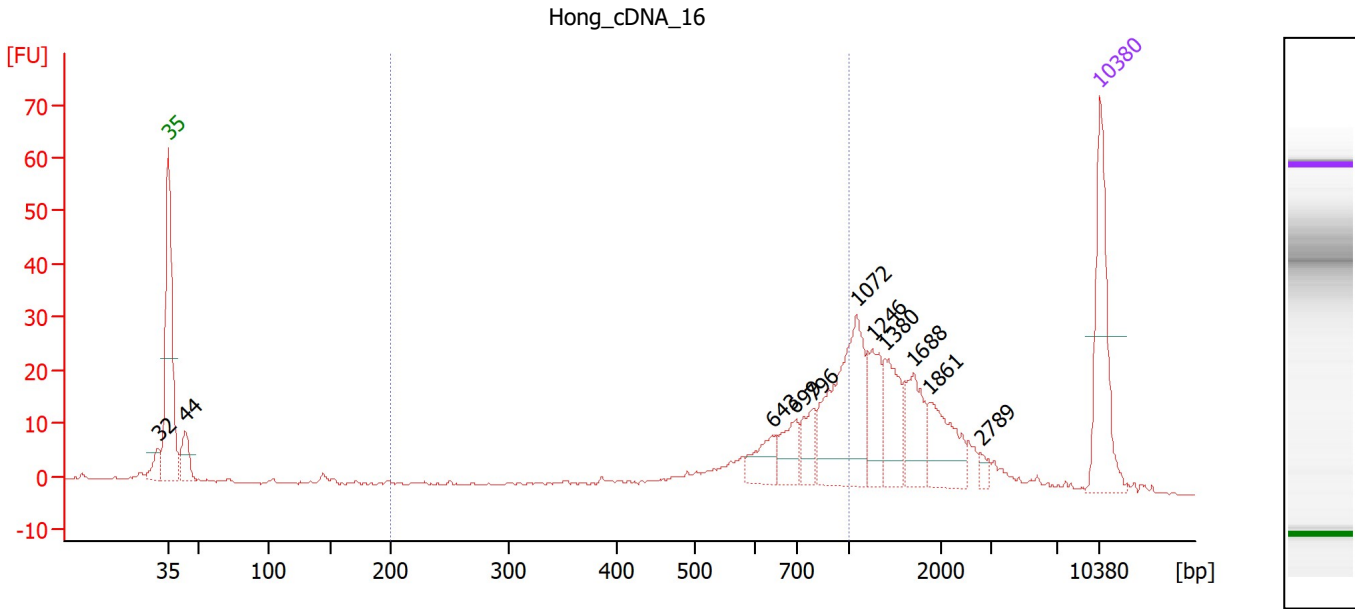
**Region table for sample 6 : Hong\_cDNA\_15**

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	468.1	35	756	20.4	709.78	1,507.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Hong\_cDNA\_16**

Number of peaks found: 11                      Corr. Area 1: 140.9  
 Noise: 0.2

**Peak table for sample 7 : Hong\_cDNA\_16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	44	34.20	1,190.8	
4	643	28.77	67.8	
5	699	29.95	64.9	
6	796	24.69	47.0	
7	1,072	121.74	172.1	
8	1,246	39.67	48.3	
9	1,380	44.06	48.4	
10	1,688	39.96	35.9	
11	1,861	47.47	38.6	
12	2,789	5.51	3.0	
13	10,380	75.00	10.9	Upper Marker

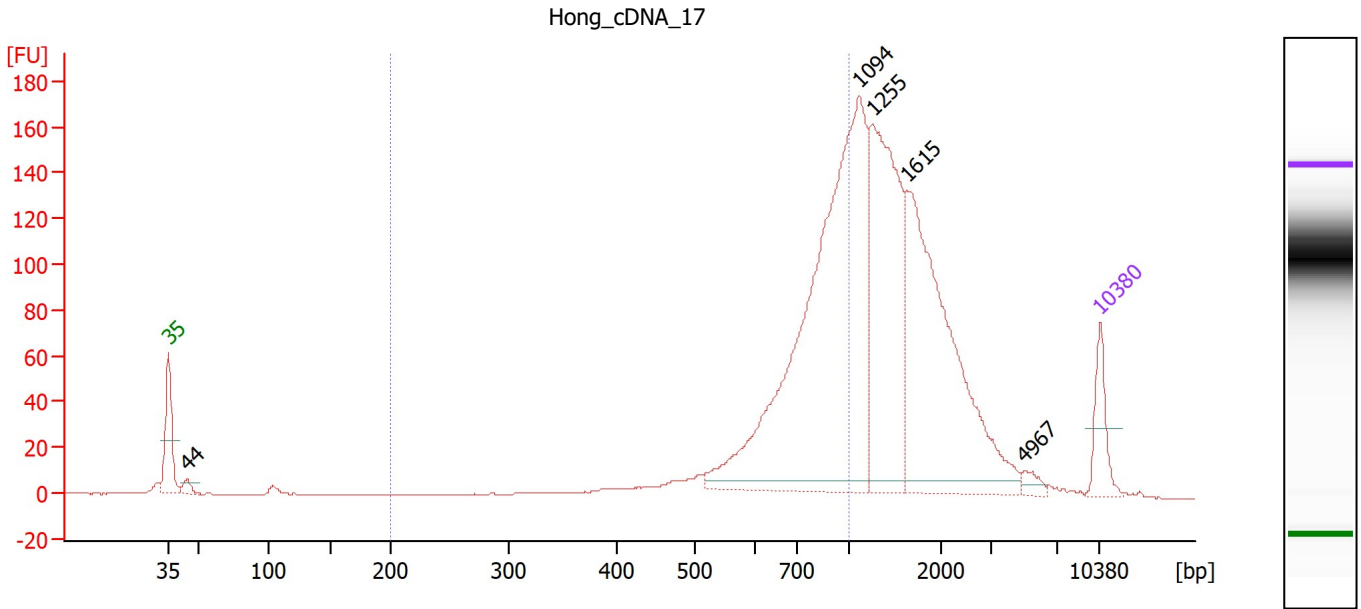
**Region table for sample 7 : Hong\_cDNA\_16**

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	140.9	38	737	22.8	219.12	490.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Hong\_cDNA\_17**

Number of peaks found: 5                      Corr. Area 1: 752.0  
 Noise: 0.2

**Peak table for sample 8 : Hong\_cDNA\_17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	24.42	833.3	
3	1,094	1,262.29	1,747.8	
4	1,255	574.64	694.0	
5	1,615	687.68	645.0	
6	4,967	19.46	5.9	
7	10,380	75.00	10.9	Upper Marker

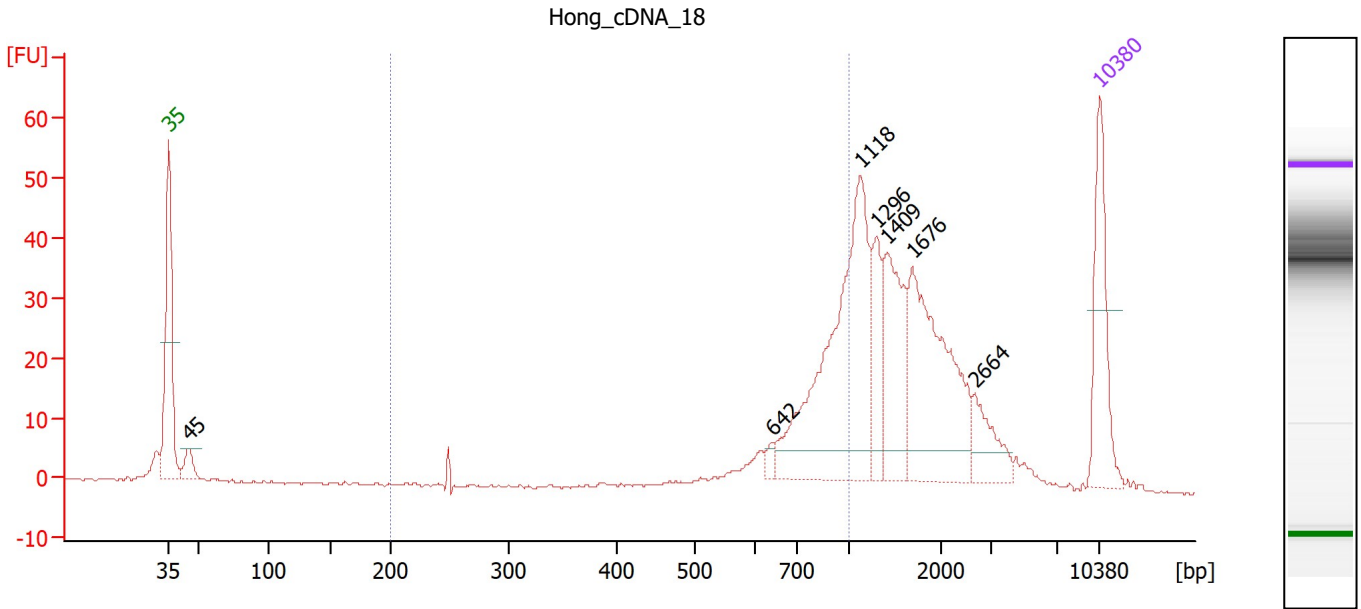
**Region table for sample 8 : Hong\_cDNA\_17**

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	752.0	38	765	21.3	1,193.15	2,564.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Hong\_cDNA\_18**

Number of peaks found: 7                      Corr. Area 1: 136.1  
 Noise: 0.2

**Peak table for sample 9 : Hong\_cDNA\_18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	22.95	768.4	
3	642	7.57	17.9	
4	1,118	260.93	353.7	
5	1,296	49.55	57.9	
6	1,409	92.85	99.8	
7	1,676	165.14	149.3	
8	2,664	35.81	20.4	
9	10,380	75.00	10.9	Upper Marker

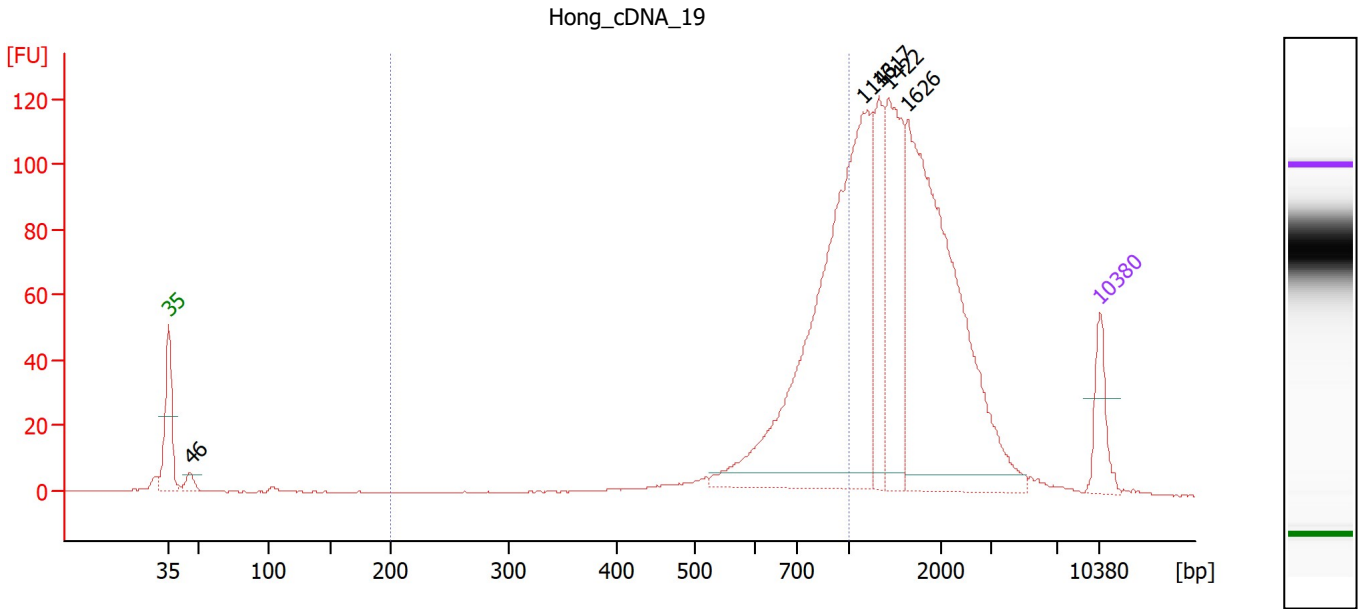
**Region table for sample 9 : Hong\_cDNA\_18**

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	136.1	27	788	19.6	231.10	480.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Hong\_cDNA\_19**

Number of peaks found: 5                      Corr. Area 1: 428.1  
 Noise: 0.1

**Peak table for sample 10 : Hong\_cDNA\_19**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	30.92	1,017.1	
3	1,146	1,034.27	1,367.7	
4	1,317	183.33	211.0	
5	1,422	319.10	339.9	
6	1,626	856.41	798.2	
7	10,380	75.00	10.9	Upper Marker

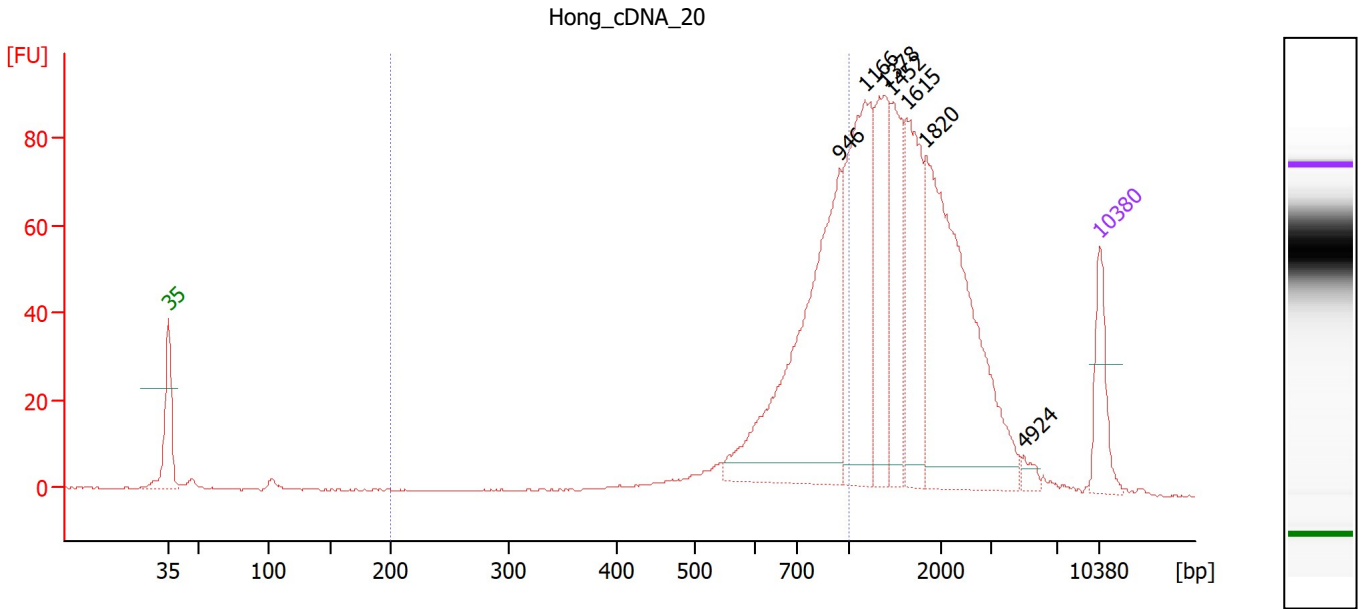
**Region table for sample 10 : Hong\_cDNA\_19**

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	428.1	30	779	20.5	894.95	1,881.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Hong\_cDNA\_20**

Number of peaks found: 7                      Corr. Area 1: 375.5  
 Noise: 0.2

**Peak table for sample 11 : Hong\_cDNA\_20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	946	538.63	862.5	
3	1,166	350.89	456.0	
4	1,378	189.25	208.0	
5	1,452	155.56	162.3	
6	1,615	195.11	183.0	
7	1,820	492.83	410.3	
8	4,924	14.44	4.4	
9	10,380	75.00	10.9	Upper Marker

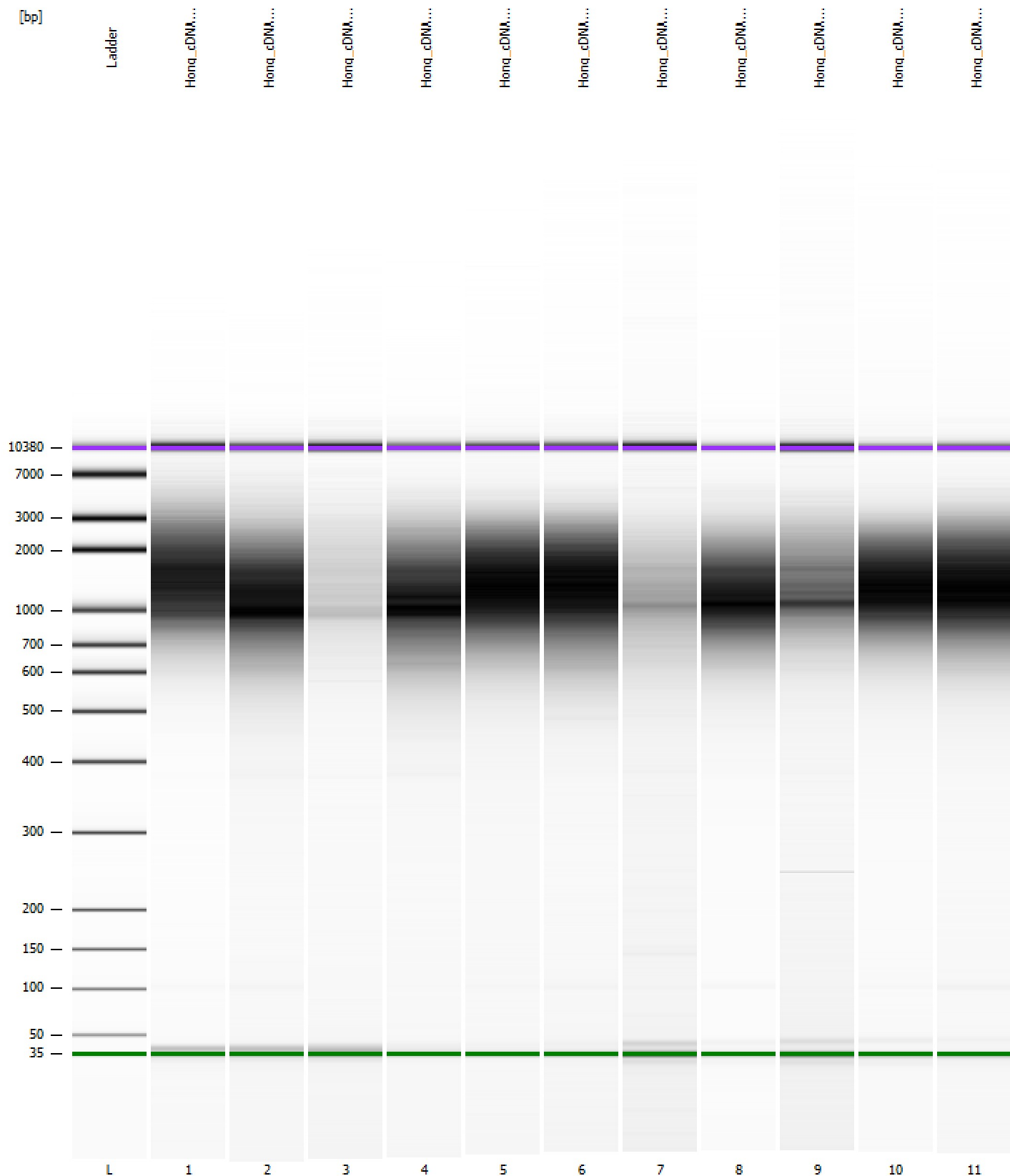
**Region table for sample 11 : Hong\_cDNA\_20**

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	375.5	32	773	20.1	776.62	1,625.5	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
Modified: 6/14/2024 4:32:46 PM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-06-14\_002.xad

Created: 6/14/2024 3:33:00 PM  
 Modified: 6/14/2024 4:32:46 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		6/14/2024 4:13:26 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\2024-06-14\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-06-14_002.xad)		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/14/2024 3:33:06 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB