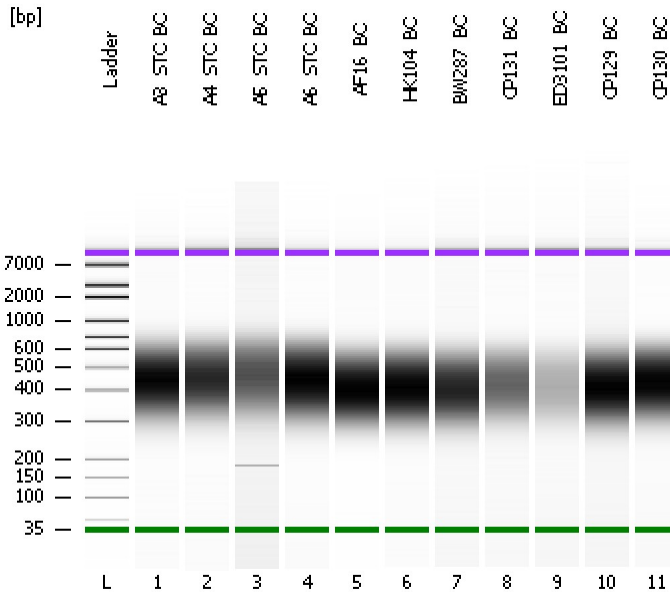


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
Modified: 8/16/2018 12:19:34 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\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

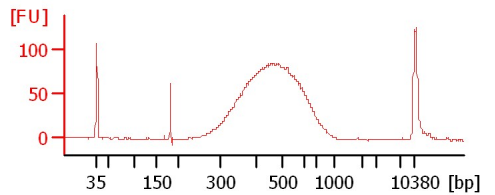
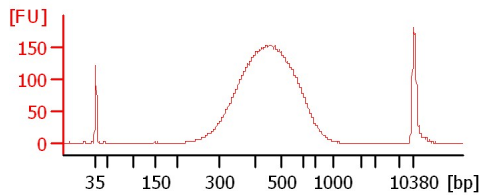
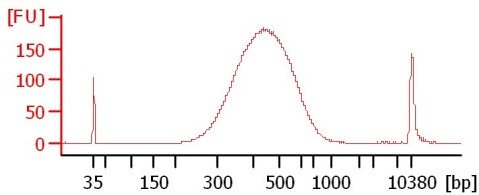
Chip Information:

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

**A3\_STC\_BC**

**A4\_STC\_BC**

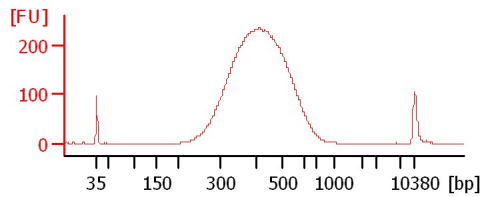
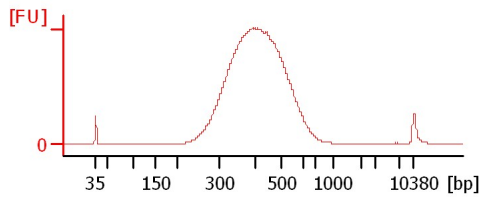
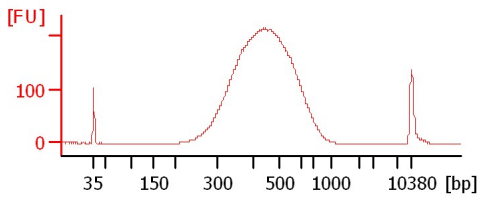
**A5\_STC\_BC**



**A6\_STC\_BC**

**AF16\_BC**

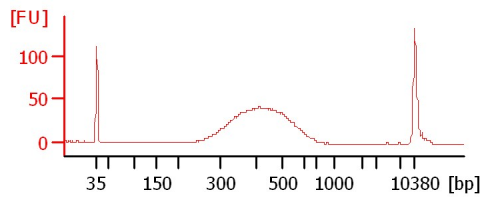
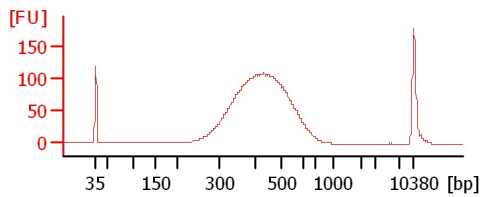
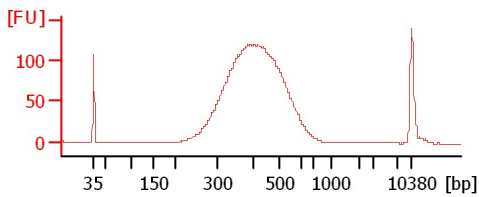
**HK104\_BC**



**BW287\_BC**

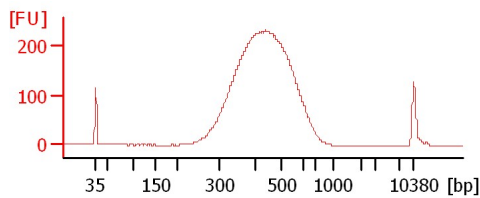
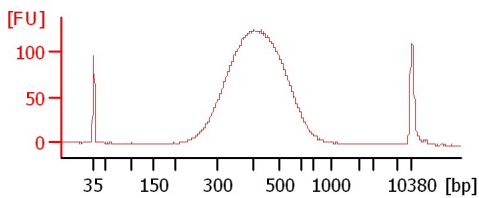
**CP131\_BC**

**ED3101\_BC**



**CP129\_BC**

**CP130\_BC**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A3_STC_BC		<input type="checkbox"/>	✓			
A4_STC_BC		<input type="checkbox"/>	✓			
A5_STC_BC		<input type="checkbox"/>	✓			
A6_STC_BC		<input type="checkbox"/>	✓			
AF16_BC		<input type="checkbox"/>	✓			
HK104_BC		<input type="checkbox"/>	✓			
BW287_BC		<input type="checkbox"/>	✓			
CP131_BC		<input type="checkbox"/>	✓			
ED3101_BC		<input type="checkbox"/>	✓			
CP129_BC		<input type="checkbox"/>	✓			
CP130_BC		<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\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
Modified: 8/16/2018 12:19:34 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

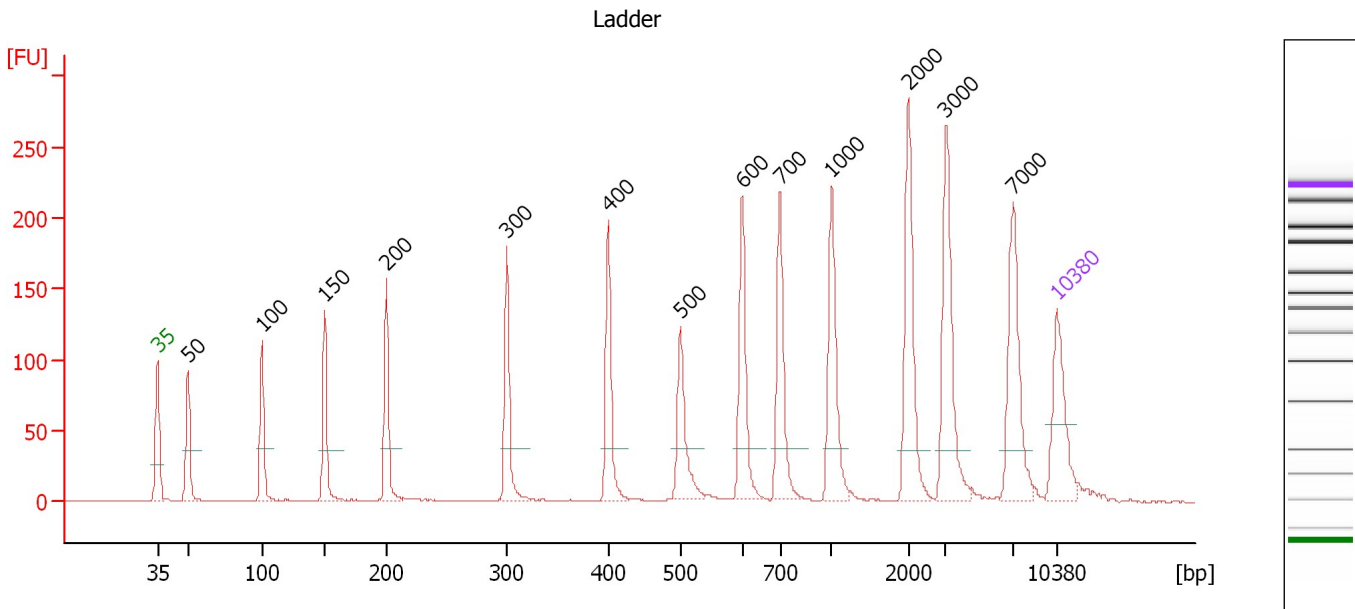
**Ladder**

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:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

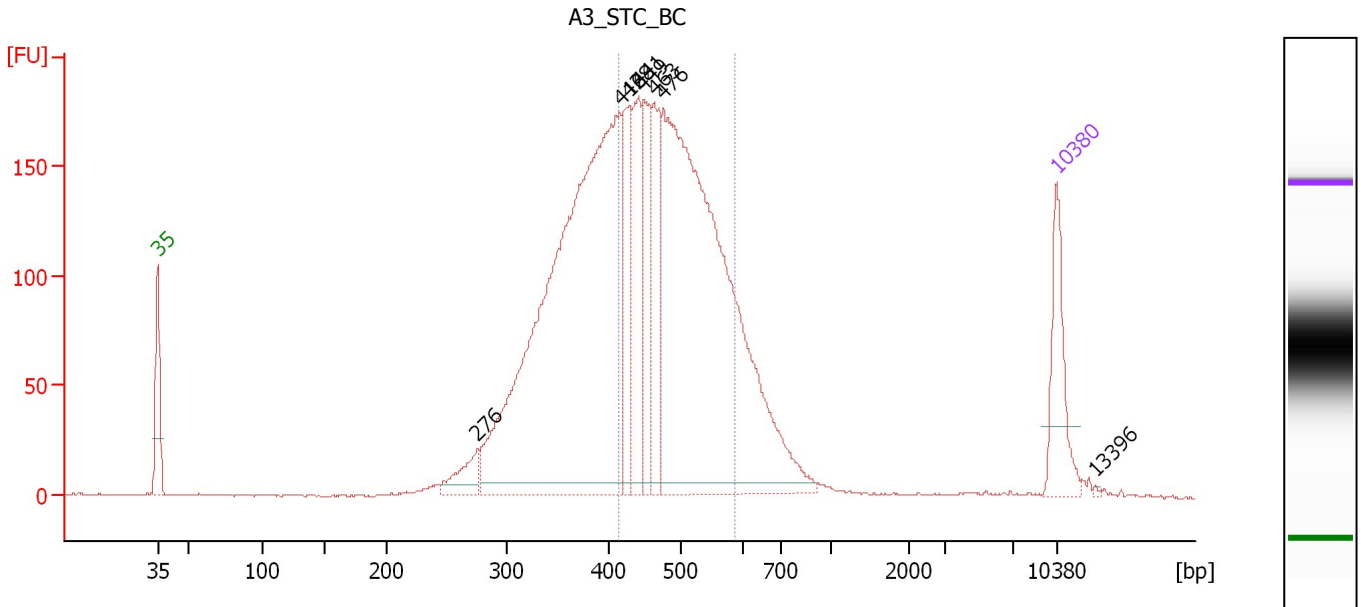
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.36
3	100	150.00	2,272.7	Ladder Peak	51.14
4	150	150.00	1,515.2	Ladder Peak	55.99
5	200	150.00	1,136.4	Ladder Peak	60.80
6	300	150.00	757.6	Ladder Peak	70.19
7	400	150.00	568.2	Ladder Peak	78.11
8	500	150.00	454.5	Ladder Peak	83.72
9	600	150.00	378.8	Ladder Peak	88.52
10	700	150.00	324.7	Ladder Peak	91.46
11	1,000	150.00	227.3	Ladder Peak	95.47
12	2,000	150.00	113.6	Ladder Peak	101.47
13	3,000	150.00	75.8	Ladder Peak	104.37
14	7,000	150.00	32.5	Ladder Peak	109.62
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A3\_STC\_BC**

Number of peaks found: 8                      Corr. Area 1: 1,811.5  
 Noise: 0.4

**Peak table for sample 1 : A3\_STC\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	276	48.03	264.0		67.91
3	416	1,090.96	3,976.4		78.99
4	428	124.38	440.6		79.67
5	441	140.31	481.6		80.43
6	449	131.80	445.1		80.84
7	463	121.02	396.0		81.65
8	476	978.83	3,116.1		82.37
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,396	0.00	0.0		116.02

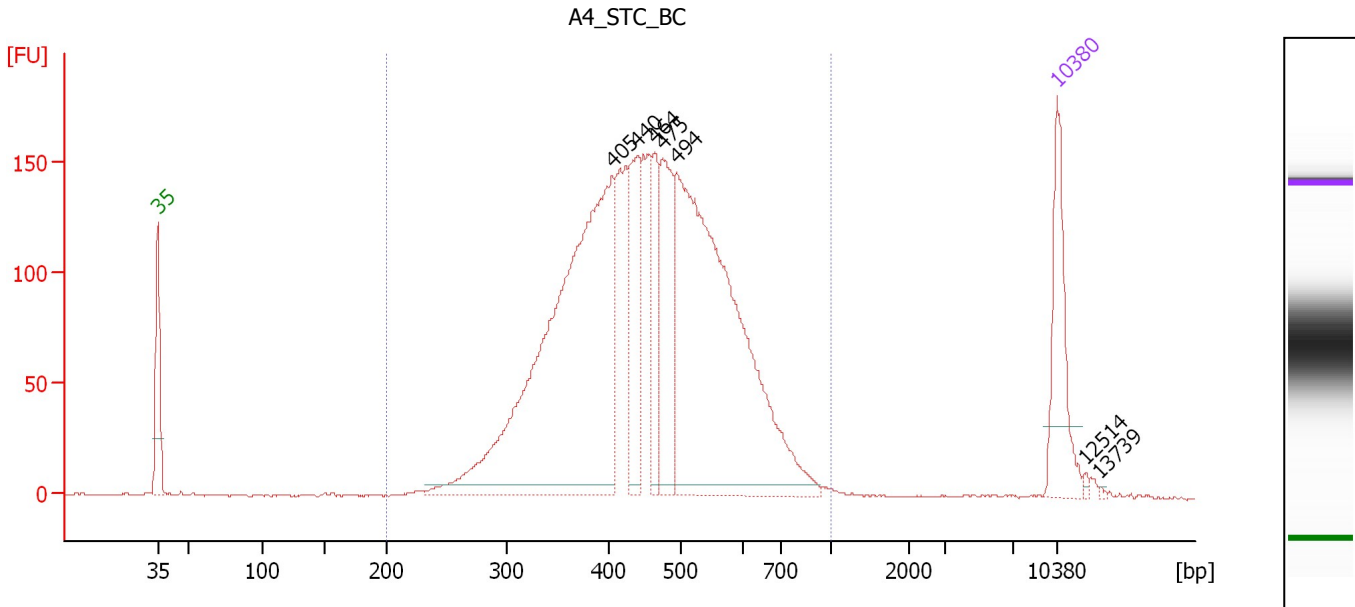
**Region table for sample 1 : A3\_STC\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
413	588	488	1,317.71	1,811.5	4,134.4	48	9.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : A4\_STC\_BC**

Number of peaks found: 7                      Corr. Area 1: 3,099.4  
 Noise: 0.4

**Peak table for sample 2 : A4\_STC\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	405	656.60	2,457.0		78.39
3	440	105.08	362.1		80.34
4	464	72.88	238.0		81.70
5	475	125.62	400.4		82.34
6	494	600.97	1,843.2		83.38
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,514	0.00	0.0		115.13
9	13,739	0.00	0.0		116.36

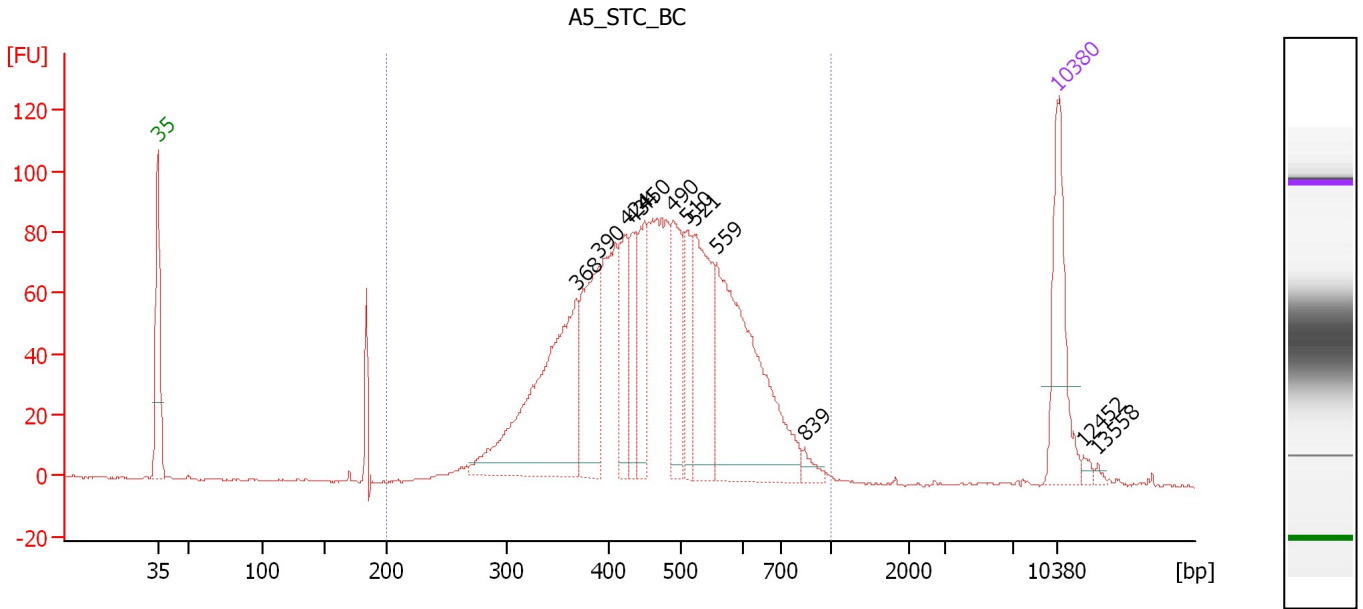
**Region table for sample 2 : A4\_STC\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	460	1,818.95	3,099.4	6,439.0	99	23.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A5\_STC\_BC**

Number of peaks found: 12                      Corr. Area 1: 1,758.8  
 Noise: 0.4

**Peak table for sample 3 : A5\_STC\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	368	266.56	1,097.3		75.58
3	390	119.51	464.1		77.33
4	424	69.94	250.0		79.45
5	434	55.41	193.5		80.00
6	450	68.14	229.3		80.93
7	490	85.99	266.1		83.14
8	510	55.83	165.9		84.20
9	521	125.68	365.2		84.75
10	559	248.97	675.0		86.55
11	839	9.65	17.4		93.32
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,452	0.00	0.0		115.07
14	13,558	0.00	0.0		116.18

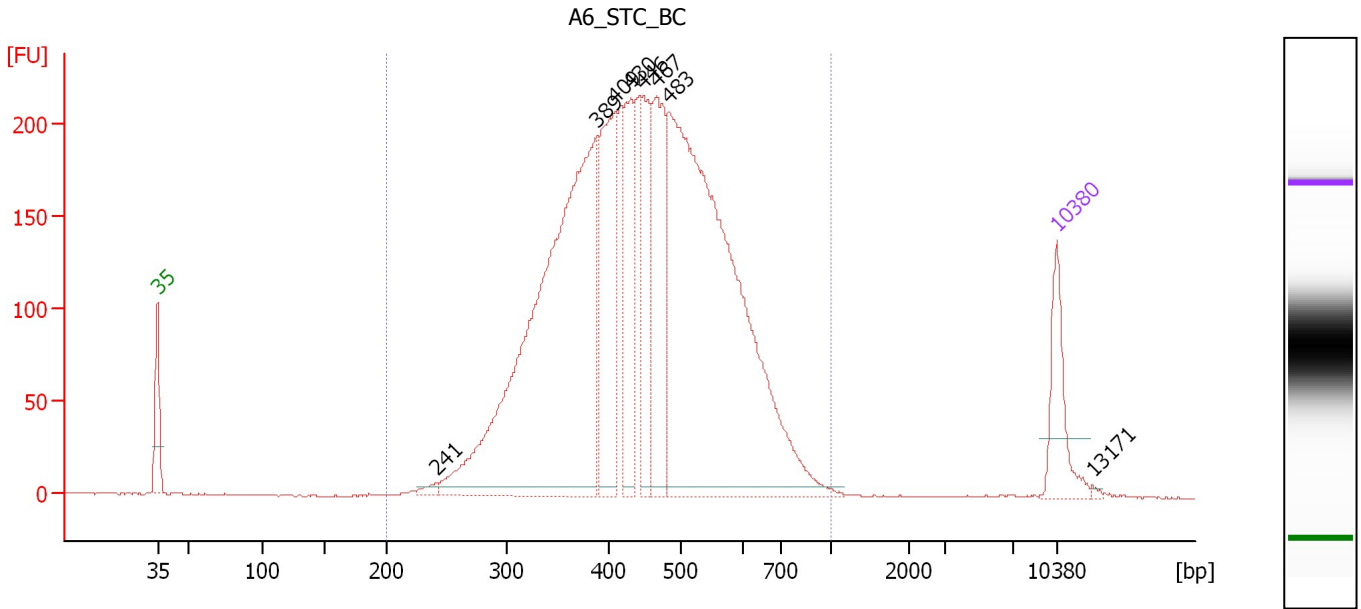
**Region table for sample 3 : A5\_STC\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	473	1,433.79	1,758.8	4,947.7	97	23.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : A6\_STC\_BC**

Number of peaks found: 8                      Corr. Area 1: 4,539.9  
 Noise: 0.4

**Peak table for sample 4 : A6\_STC\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	241	11.05	69.3		64.69
3	389	1,058.50	4,127.0		77.21
4	409	281.50	1,043.3		78.61
5	430	169.49	596.7		79.82
6	446	178.20	605.2		80.70
7	467	228.33	741.0		81.86
8	483	1,168.12	3,666.7		82.75
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,171	0.00	0.0		115.79

**Region table for sample 4 : A6\_STC\_BC**

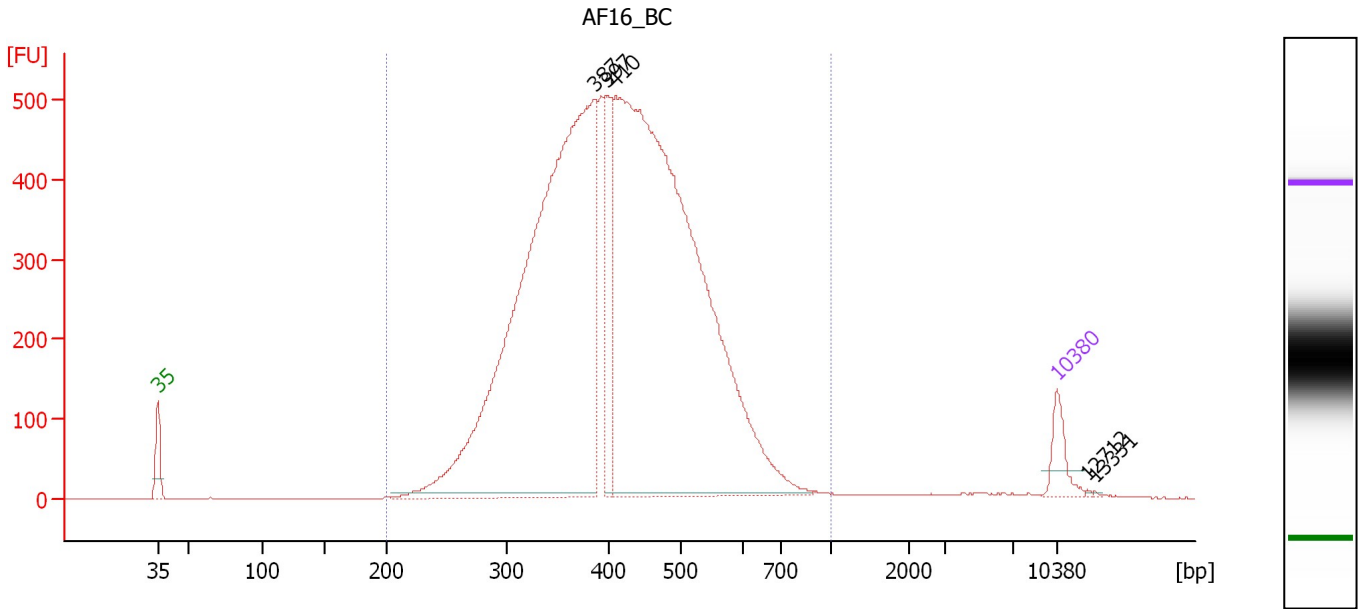
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	454	3,324.57	4,539.9	11,962.0	99	23.6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : AF16 BC**

Number of peaks found: 5                      Corr. Area 1: 10,341.3  
 Noise: 0.4

**Peak table for sample 5 : AF16 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	387	3,362.89	13,180.7		77.05
3	397	314.37	1,198.6		77.90
4	410	3,803.20	14,057.9		78.67
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,712	0.00	0.0		115.33
7	13,331	0.00	0.0		115.95

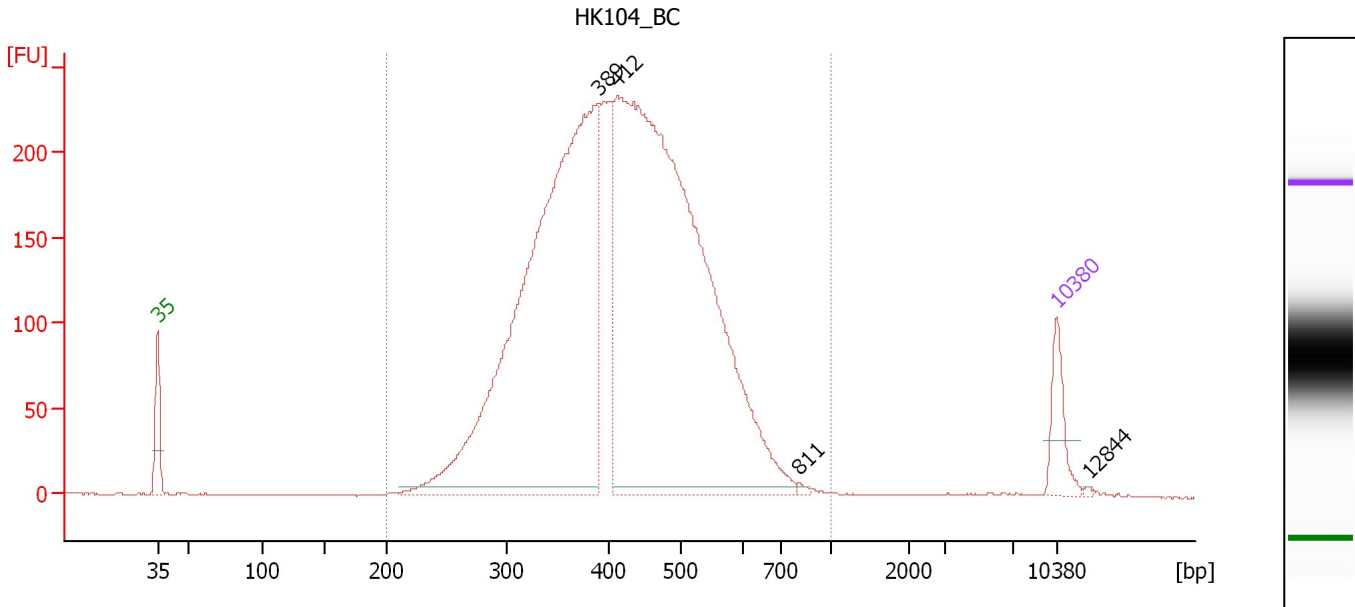
**Region table for sample 5 : AF16 BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	421	8,025.25	10,341.3	30,897.9	98	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HK104 BC**

Number of peaks found: 4                      Corr. Area 1: 4,811.7  
 Noise: 0.3

**Peak table for sample 6 : HK104 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	389	2,088.43	8,125.2		77.27
3	412	2,501.26	9,202.7		78.77
4	811	5.73	10.7		92.94
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,844	0.00	0.0		115.47

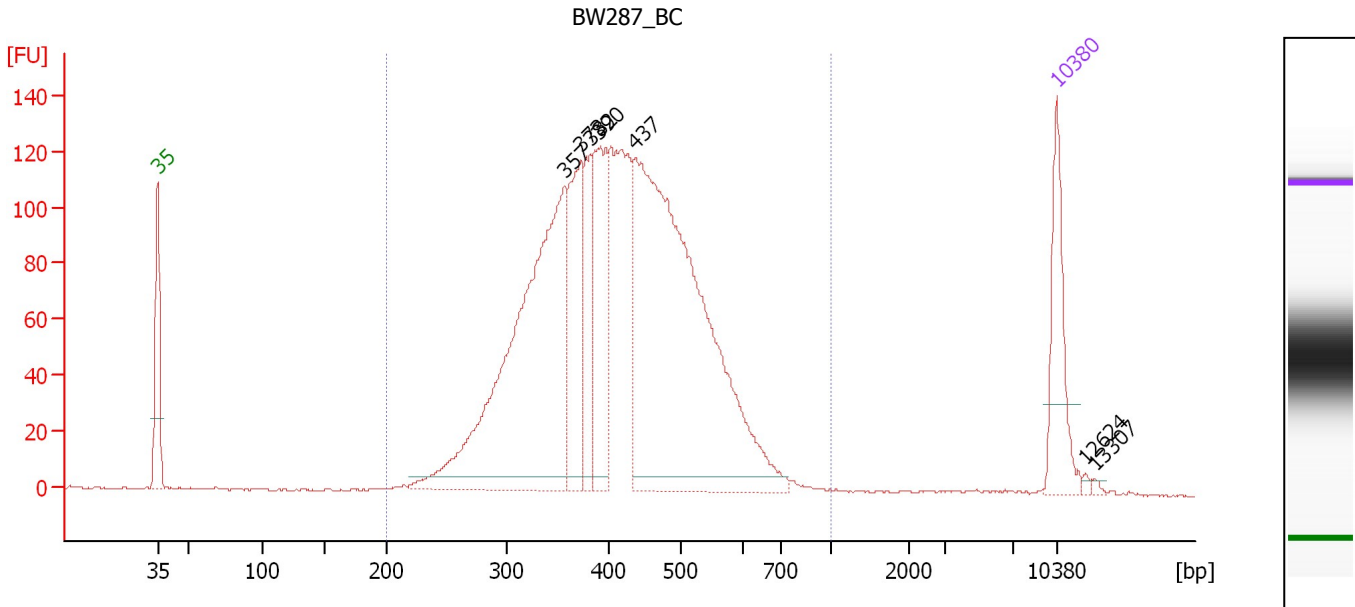
**Region table for sample 6 : HK104 BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	425	5,059.08	4,811.7	19,294.9	99	22.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : BW287\_BC**

Number of peaks found: 7                      Corr. Area 1: 2,493.0  
 Noise: 0.3

**Peak table for sample 7 : BW287\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	357	583.83	2,480.0		74.68
3	373	145.75	591.5		76.00
4	382	100.34	398.0		76.68
5	390	151.54	588.8		77.32
6	437	747.28	2,589.8		80.20
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,624	0.00	0.0		115.25
9	13,307	0.00	0.0		115.93

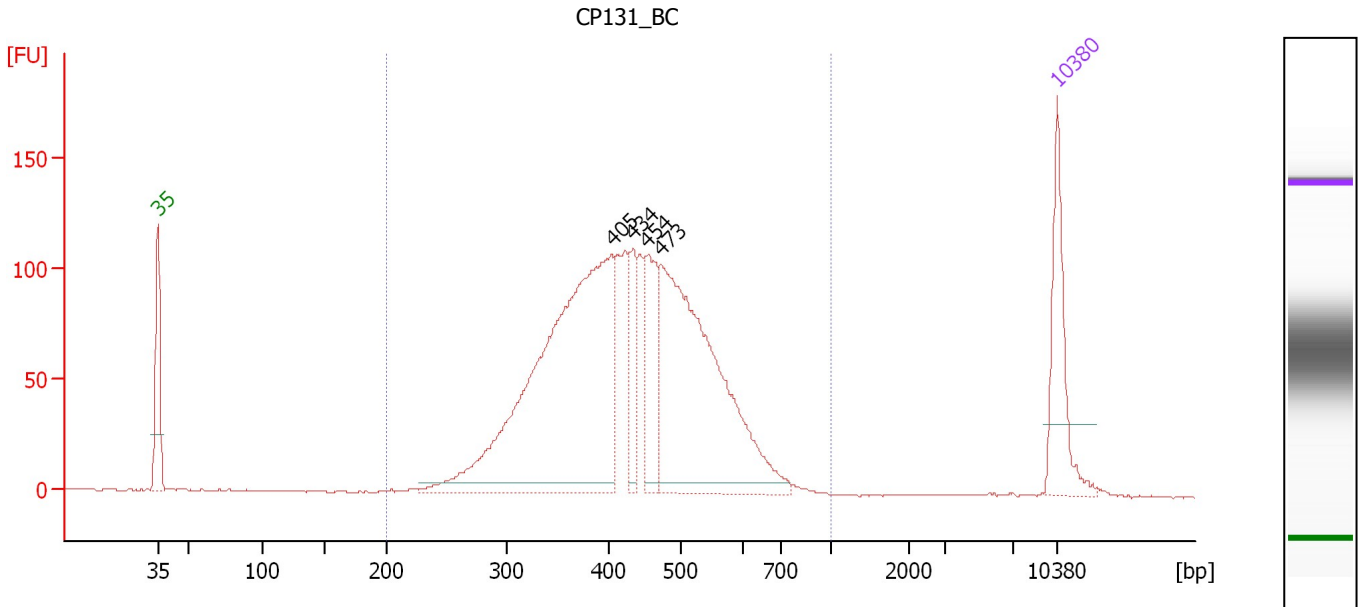
**Region table for sample 7 : BW287\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	420	2,012.18	2,493.0	7,763.0	98	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CP131 BC**

Number of peaks found: 4                      Corr. Area 1: 2,146.4  
 Noise: 0.3

**Peak table for sample 8 : CP131 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	405	602.03	2,252.1		78.39
3	434	56.93	198.8		80.02
4	454	96.21	321.0		81.15
5	473	425.61	1,362.2		82.23
6	10,380	75.00	10.9	Upper Marker	113.00

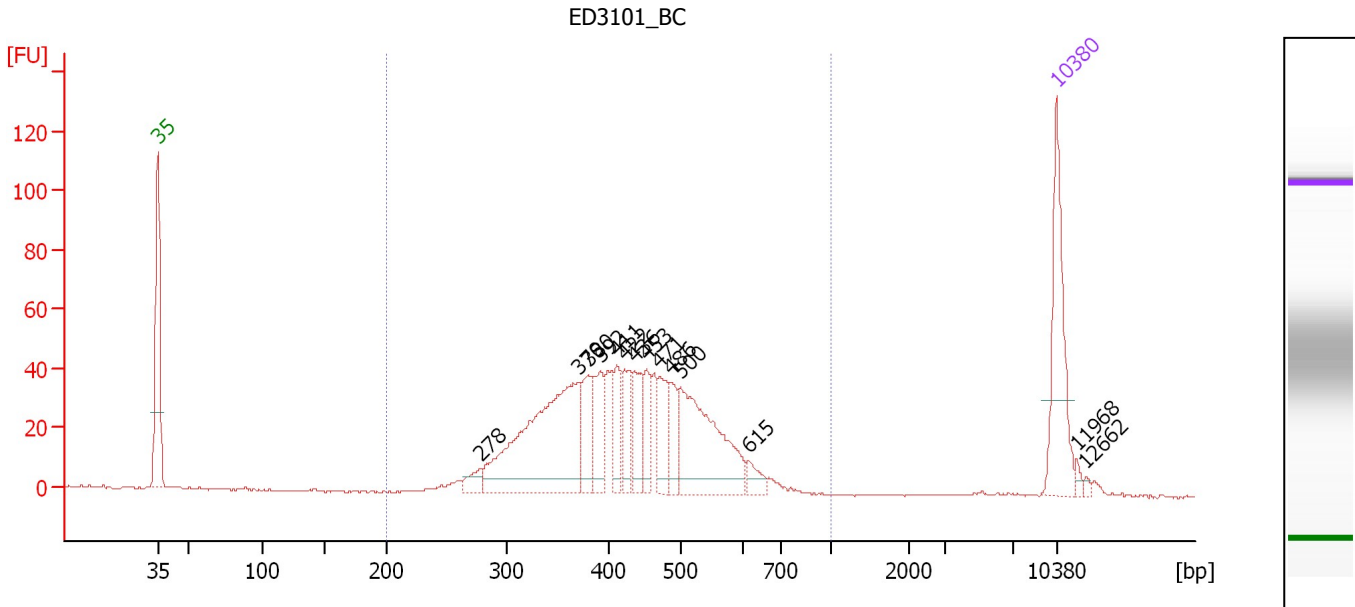
**Region table for sample 8 : CP131 BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	435	1,388.03	2,146.4	5,159.7	98	21.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : ED3101 BC**

Number of peaks found: 14                      Corr. Area 1: 837.8  
 Noise: 0.2

**Peak table for sample 9 : ED3101 BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	278	15.34	83.6		68.12
3	370	231.96	950.5		75.72
4	380	41.32	164.8		76.51
5	392	46.21	178.8		77.45
6	411	32.32	119.1		78.74
7	422	36.32	130.4		79.34
8	436	37.87	131.6		80.13
9	453	30.40	101.7		81.08
10	471	37.19	119.7		82.07
11	486	28.79	89.8		82.91
12	500	140.04	424.5		83.71
13	615	13.28	32.7		88.97
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,968	0.00	0.0		114.59
16	12,662	0.00	0.0		115.28

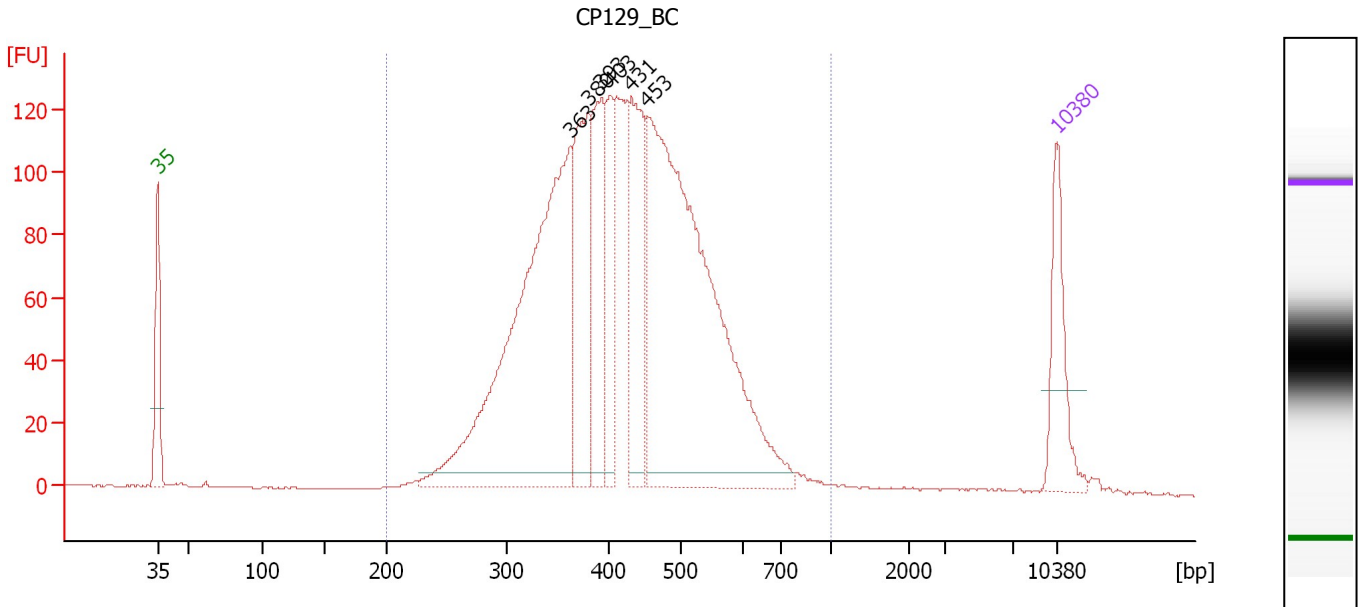
**Region table for sample 9 : ED3101 BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	430	780.69	837.8	2,930.5	97	21.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

Created: 8/16/2018 11:27:50 AM  
 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : CP129\_BC**

Number of peaks found: 6                      Corr. Area 1: 2,553.6  
 Noise: 0.3

**Peak table for sample 10 : CP129\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	363	679.30	2,836.8		75.17
3	380	191.77	765.1		76.51
4	393	160.35	618.3		77.55
5	403	101.83	382.5		78.30
6	431	181.10	636.9		79.84
7	453	761.77	2,548.0		81.08
8	10,380	75.00	10.9	Upper Marker	113.00

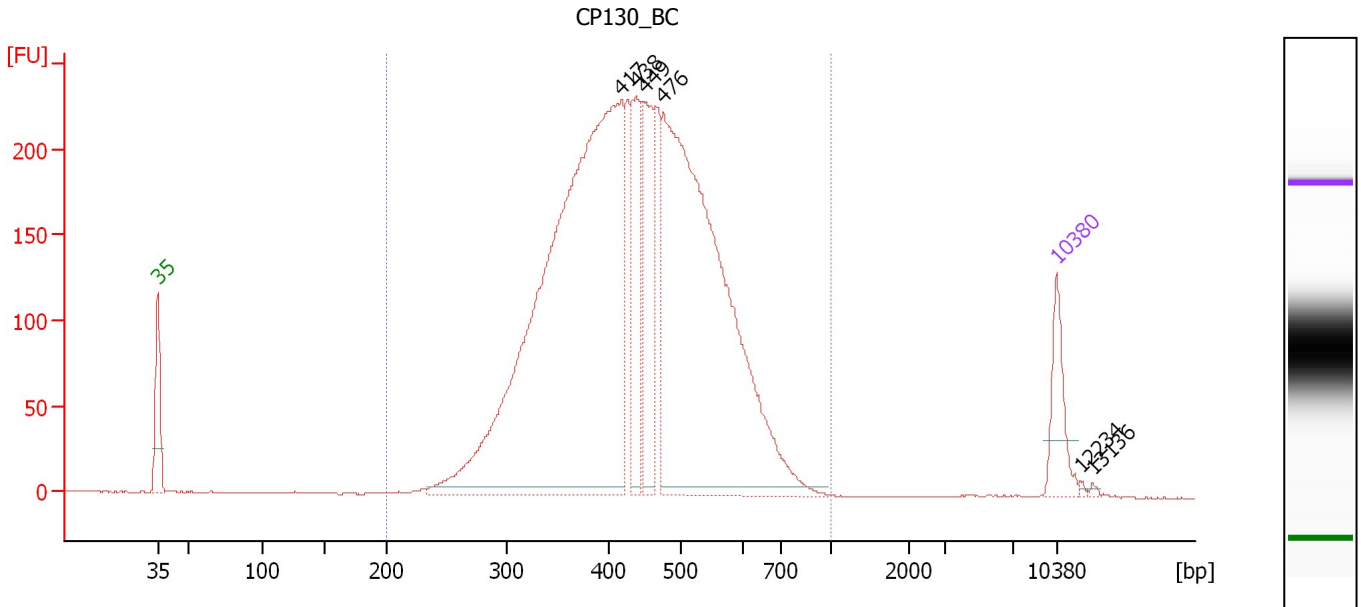
**Region table for sample 10 : CP129\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	428	2,345.88	2,553.6	8,920.1	97	23.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

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 Modified: 8/16/2018 12:19:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : CP130\_BC**

Number of peaks found: 6                      Corr. Area 1: 4,527.6  
 Noise: 0.3

**Peak table for sample 11 : CP130\_BC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	417	1,802.70	6,553.2		79.05
3	438	177.17	612.5		80.26
4	449	235.27	793.9		80.86
5	476	1,323.62	4,214.8		82.36
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,234	0.00	0.0		114.86
8	13,136	0.00	0.0		115.76

**Region table for sample 11 : CP130\_BC**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	443	3,937.20	4,527.6	14,357.6	99	21.7

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-16\2018-08-16\_001.xad

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Modified: 8/16/2018 12:19:34 PM

**Gel Image**

