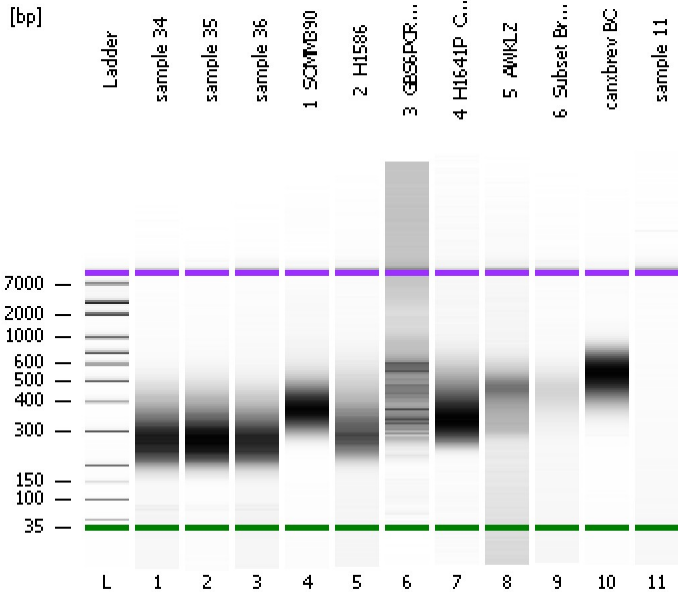


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
Modified: 12/27/2018 12:27:53 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

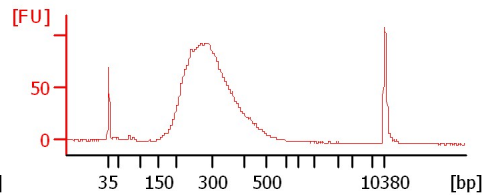
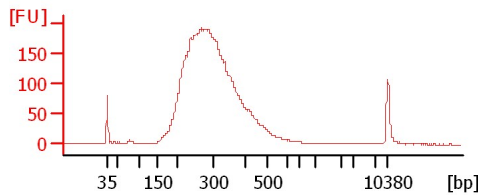
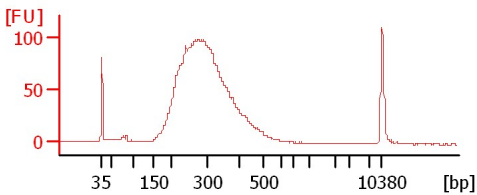
Chip Information:

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

sample 34

sample 35

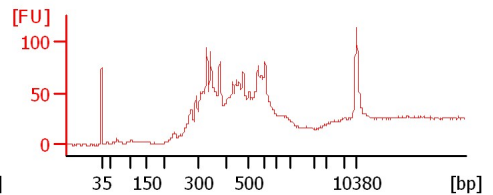
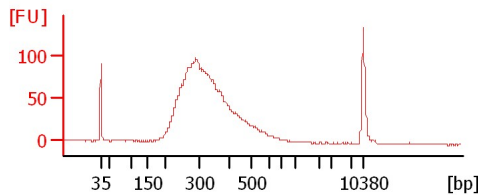
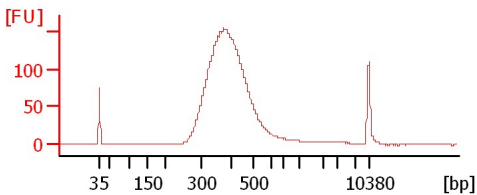
sample 36



1_SOMM390

2_H1586

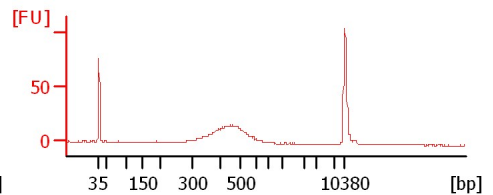
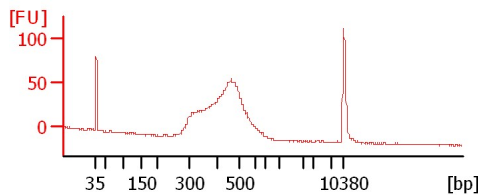
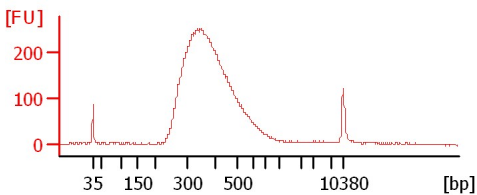
3_GBS6PCR2rB 1:5



4_H1641P_Chechevna

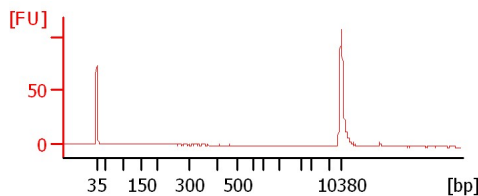
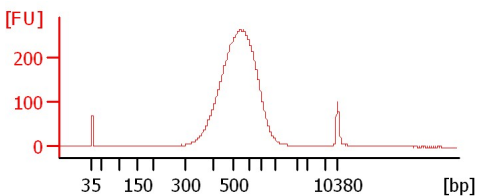
5_AWKLZ

6_Subset Brazil



canxbrev BC

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 34		<input type="checkbox"/>	✓			
sample 35		<input type="checkbox"/>	✓			
sample 36		<input type="checkbox"/>	✓			
1_SOMM390		<input type="checkbox"/>	✓			
2_H1586		<input type="checkbox"/>	✓			
3_GBS6PCR2rB 1:5		<input type="checkbox"/>	✓			
4_H1641P_Chechevna		<input type="checkbox"/>	✓			
5_AWKLZ		<input type="checkbox"/>	✓			
6_Subset Brazil		<input type="checkbox"/>	✓			
canxbrev BC		<input type="checkbox"/>	✓			
sample 11		<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\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
Modified: 12/27/2018 12:27:53 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

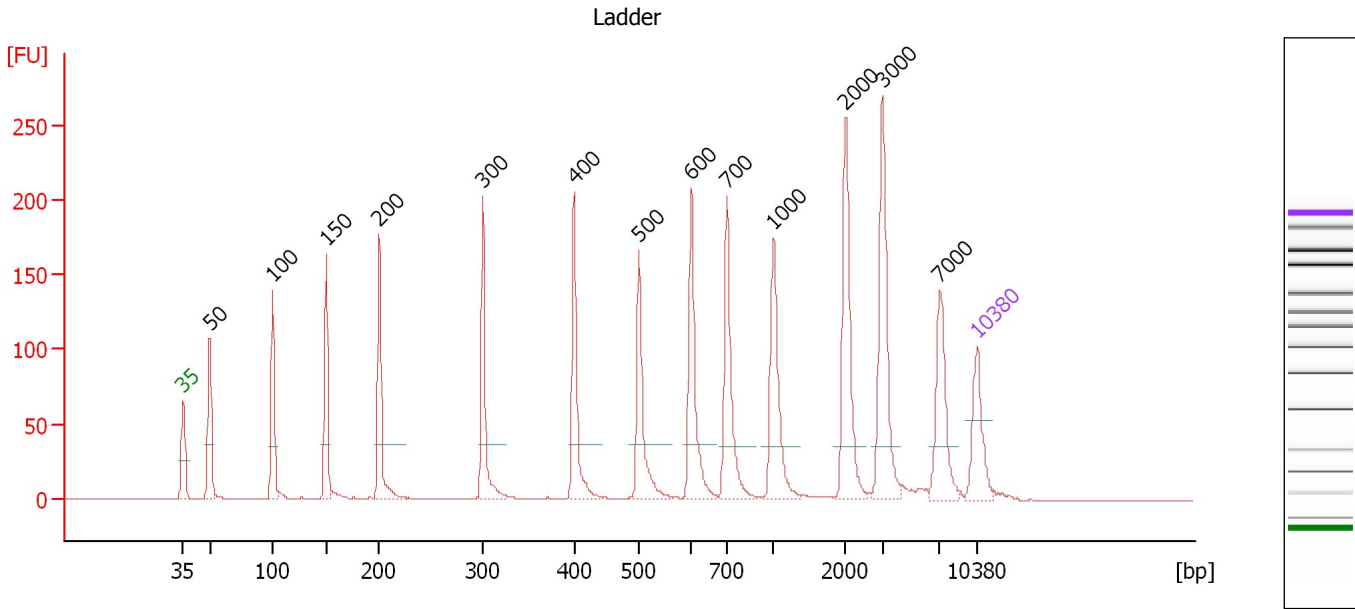
Ladder

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\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

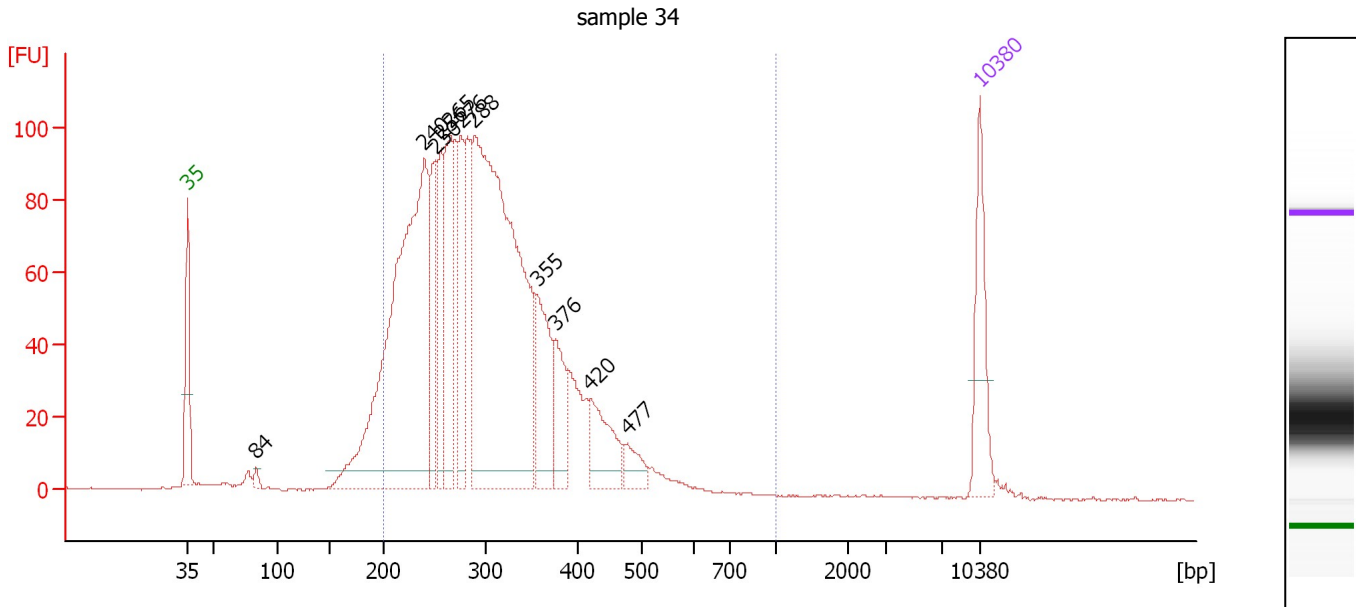
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.90
4	150	150.00	1,515.2	Ladder Peak	55.60
5	200	150.00	1,136.4	Ladder Peak	60.30
6	300	150.00	757.6	Ladder Peak	69.42
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.19
9	600	150.00	378.8	Ladder Peak	87.80
10	700	150.00	324.7	Ladder Peak	90.95
11	1,000	150.00	227.3	Ladder Peak	95.04
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 34

Number of peaks found: 11 Corr. Area 1: 2,054.1
 Noise: 0.3

Peak table for sample 1 : sample 34

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	84	8.98	162.8		49.08
3	240	741.46	4,688.0		63.92
4	250	117.34	709.8		64.90
5	256	119.43	706.4		65.42
6	265	177.01	1,012.3		66.22
7	276	119.12	654.4		67.21
8	288	854.51	4,492.6		68.34
9	355	127.94	545.8		73.85
10	376	73.11	294.9		75.50
11	420	79.10	285.3		78.61
12	477	28.12	89.4		81.86
13	10,380	75.00	10.9	Upper Marker	113.00

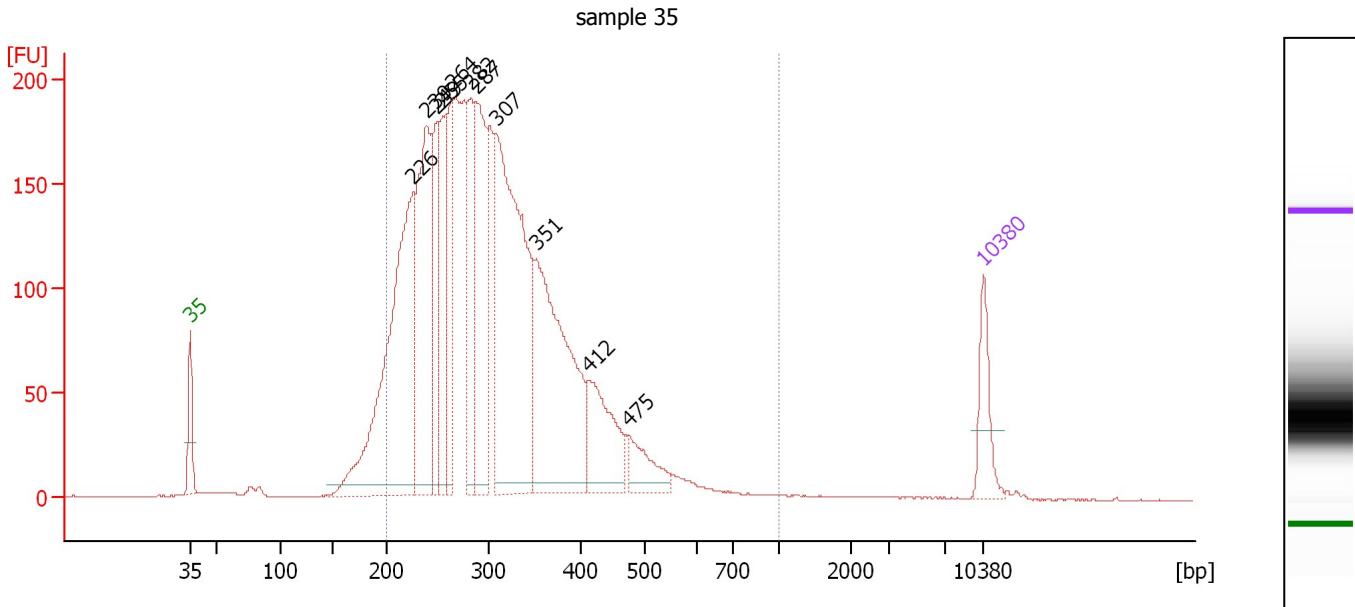
Region table for sample 1 : sample 34

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	306	2,631.52	2,054.1	13,907.0	93	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 35

Number of peaks found: 11 Corr. Area 1: 4,036.3
 Noise: 0.2

Peak table for sample 2 : sample 35

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	226	869.01	5,824.4		62.68
3	239	506.11	3,202.1		63.90
4	249	223.36	1,360.4		64.75
5	255	224.87	1,336.3		65.31
6	264	226.45	1,298.4		66.16
7	282	219.82	1,181.9		67.76
8	287	387.79	2,047.5		68.23
9	307	884.77	4,368.3		69.97
10	351	606.81	2,616.5		73.55
11	412	204.28	750.7		78.16
12	475	85.47	272.8		81.74
13	10,380	75.00	10.9	Upper Marker	113.00

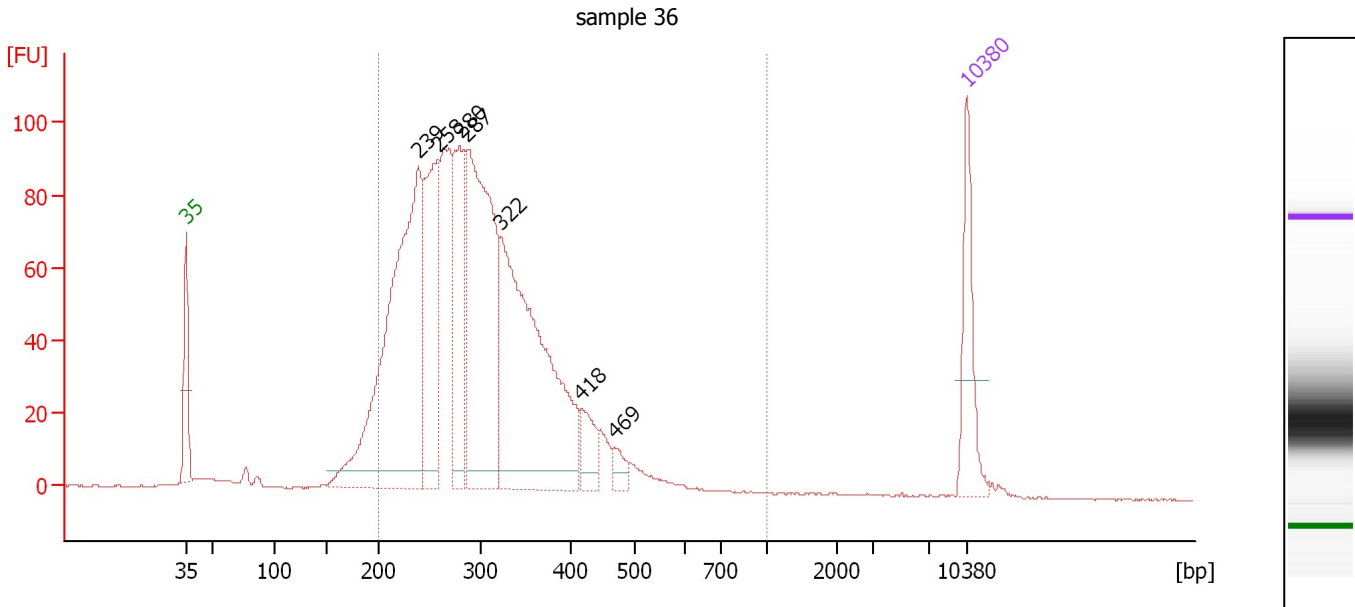
Region table for sample 2 : sample 35

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	310	4,978.25	4,036.3	26,142.7	94	26.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 36

Number of peaks found: 7 Corr. Area 1: 1,888.5
 Noise: 0.3

Peak table for sample 3 : sample 36

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	239	646.49	4,100.4		63.85
3	258	245.26	1,441.7		65.57
4	280	204.30	1,106.4		67.58
5	287	446.50	2,356.2		68.25
6	322	532.06	2,501.5		71.21
7	418	44.57	161.7		78.48
8	469	18.94	61.2		81.39
9	10,380	75.00	10.9	Upper Marker	113.00

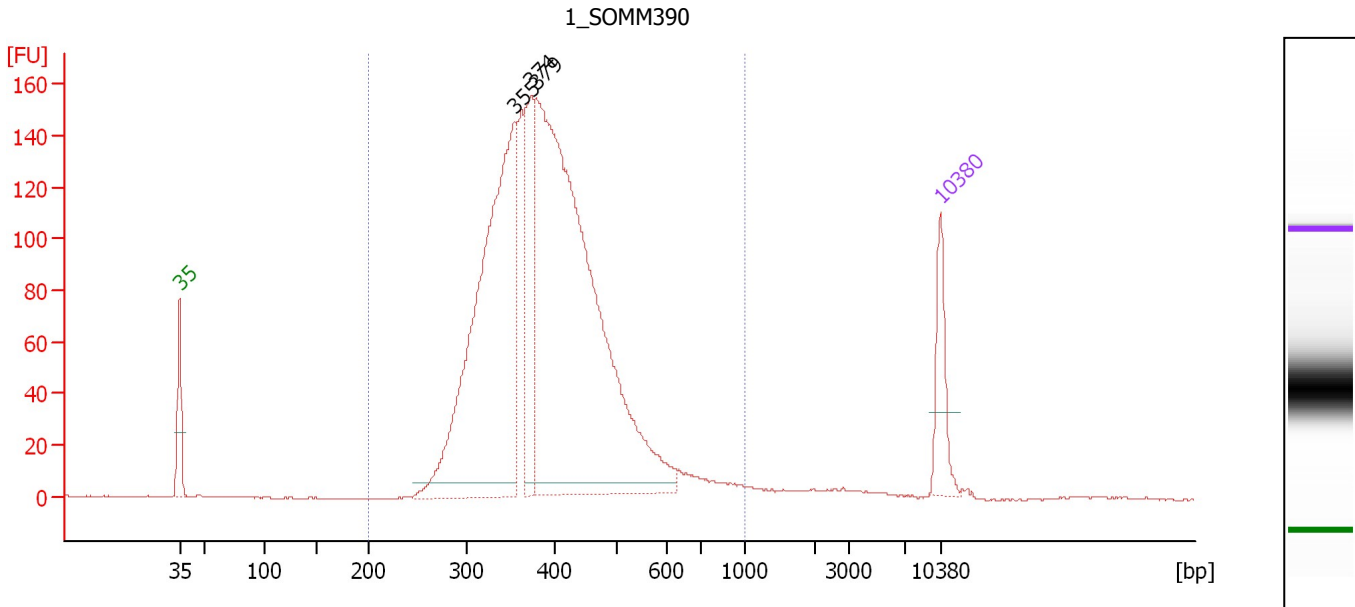
Region table for sample 3 : sample 36

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	304	2,342.91	1,888.5	12,437.5	93	24.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1_SOMM390

Number of peaks found: 3 Corr. Area 1: 2,420.3
 Noise: 0.2

Peak table for sample 4 : 1_SOMM390

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	355	949.32	4,056.8		73.81
3	374	218.61	885.4		75.38
4	379	1,411.11	5,641.8		75.77
5	10,380	75.00	10.9	Upper Marker	113.00

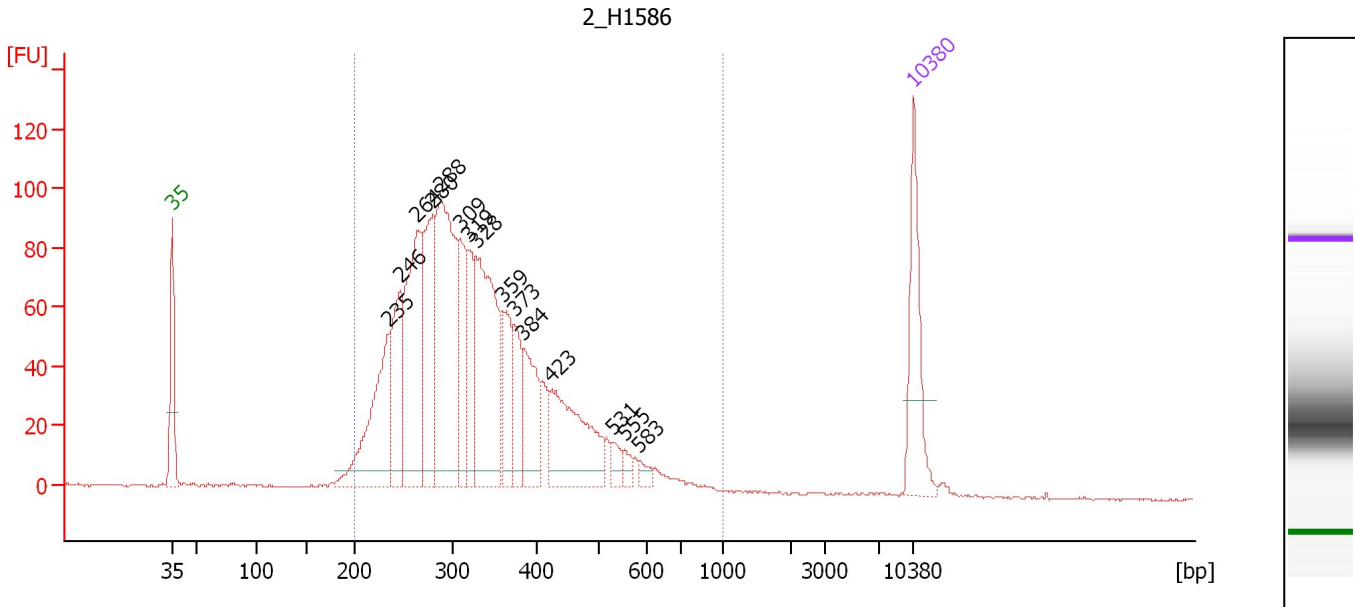
Region table for sample 4 : 1_SOMM390

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	402	2,763.61	2,420.3	10,955.2	98	22.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2_H1586

Number of peaks found: 15 Corr. Area 1: 1,923.1
 Noise: 0.4

Peak table for sample 5 : 2_H1586

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	235	168.70	1,088.2		63.48
3	246	115.93	712.6		64.54
4	264	207.61	1,191.0		66.15
5	280	151.74	822.3		67.56
6	288	282.79	1,485.6		68.36
7	309	96.03	470.3		70.17
8	319	69.07	327.7		70.98
9	328	226.00	1,043.4		71.68
10	359	70.39	296.7		74.20
11	373	55.29	224.8		75.26
12	384	79.57	314.1		76.16
13	423	137.45	492.3		78.78
14	531	14.92	42.6		84.62
15	555	9.45	25.8		85.72
16	583	8.72	22.6		87.03
17	10,380	75.00	10.9	Upper Marker	113.00

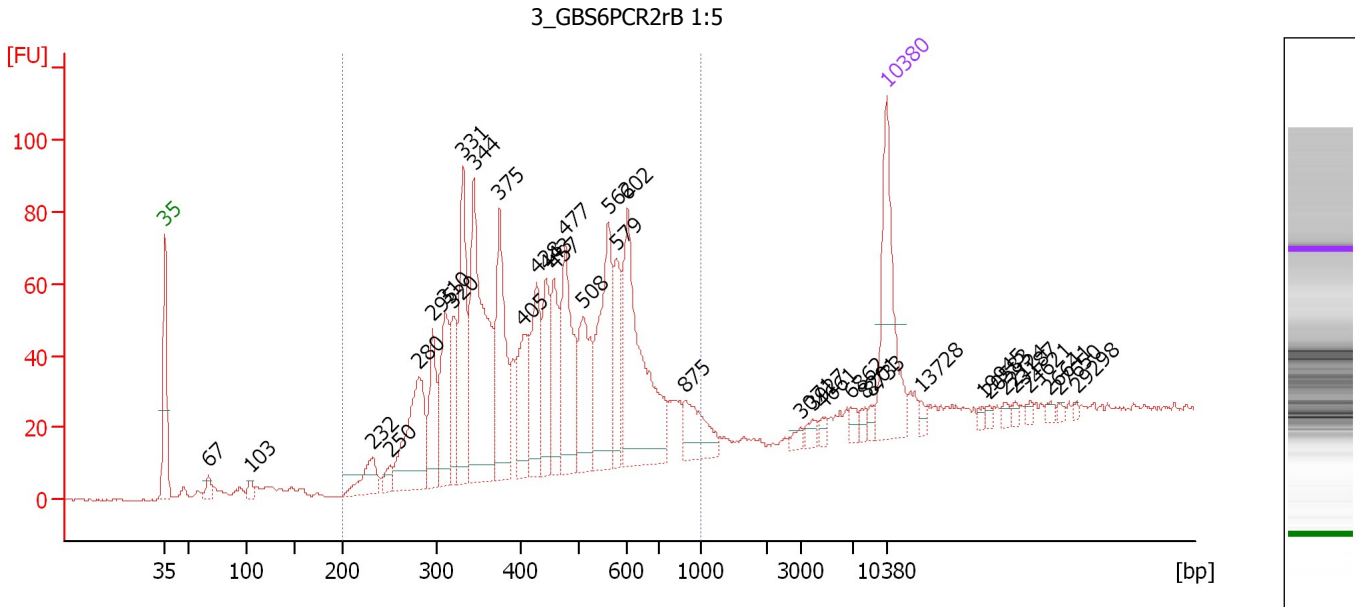
Region table for sample 5 : 2_H1586

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	339	1,815.82	1,923.1	8,874.9	98	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 3_GBS6PCR2rB 1:5

Number of peaks found: 36 Corr. Area 1: 1,324.9
 Noise: 0.3

Peak table for sample 6 : 3_GBS6PCR2rB 1:5

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	67	12.27	279.3		47.19
3	103	8.98	131.4		51.23
4	232	32.18	210.6		63.18
5	250	11.35	68.8		64.83
6	280	105.62	570.9		67.63
7	295	56.53	290.3		68.97
8	310	71.97	351.9		70.21
9	320	46.10	218.6		70.99
10	331	101.34	463.7		71.92
11	344	190.98	841.2		72.96
12	375	102.92	416.0		75.44
13	405	55.27	206.6		77.77
14	428	71.87	254.5		79.06
15	443	53.88	184.2		79.94
16	457	52.73	174.9		80.72
17	477	95.69	304.2		81.85
18	508	68.93	205.6		83.56
19	562	104.66	282.2		86.05
20	579	42.11	110.3		86.82
21	602	148.56	374.1		87.86
22	875	38.58	66.8		93.34
23	3,071	4.78	2.4		104.72
24	3,927	6.33	2.4		105.81
25	4,661	4.04	1.3		106.74

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 3_GBS6PCR2rB 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,862	5.54	1.2		109.53
27	8,201	4.85	0.9		110.88
28	8,733	4.17	0.7		111.40
29	10,380	75.00	10.9	Upper Marker	113.00
30	13,728	0.00	0.0		116.26
31	19,945	0.00	0.0		122.31
32	20,583	0.00	0.0		122.93
33	22,124	0.00	0.0		124.43
34	23,187	0.00	0.0		125.47
35	24,621	0.00	0.0		126.87
36	26,641	0.00	0.0		128.83
37	27,650	0.00	0.0		129.81
38	29,298	0.00	0.0		131.42

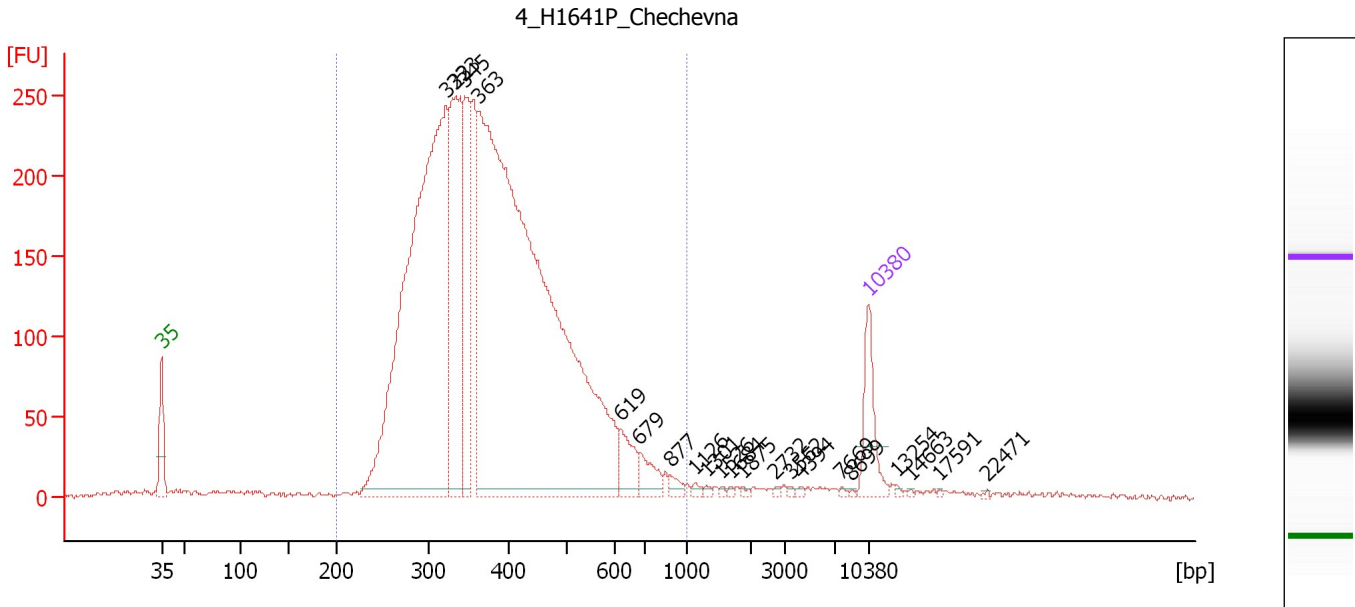
Region table for sample 6 : 3_GBS6PCR2rB 1:5

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	459	1,292.80	1,324.9	4,808.4	91	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 4 H1641P Chechevna

Number of peaks found: 21 Corr. Area 1: 5,102.4
 Noise: 1.4

Peak table for sample 7 : 4 H1641P Chechevna

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	322	1,439.28	6,772.2		71.19
3	333	429.45	1,953.0		72.09
4	345	257.90	1,132.6		73.04
5	363	2,210.31	9,232.7		74.46
6	619	58.20	142.5		88.40
7	679	44.75	99.8		90.30
8	877	12.42	21.5		93.36
9	1,126	6.26	8.4		95.84
10	1,301	4.36	5.1		96.95
11	1,526	2.93	2.9		98.38
12	1,684	2.81	2.5		99.38
13	1,875	3.47	2.8		100.59
14	2,732	2.98	1.7		103.76
15	3,562	3.04	1.3		105.35
16	4,394	3.61	1.2		106.40
17	7,669	2.84	0.6		110.36
18	8,699	1.76	0.3		111.36
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,254	0.00	0.0		115.80
21	14,663	0.00	0.0		117.17
22	17,591	0.00	0.0		120.02
23	22,471	0.00	0.0		124.77

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...

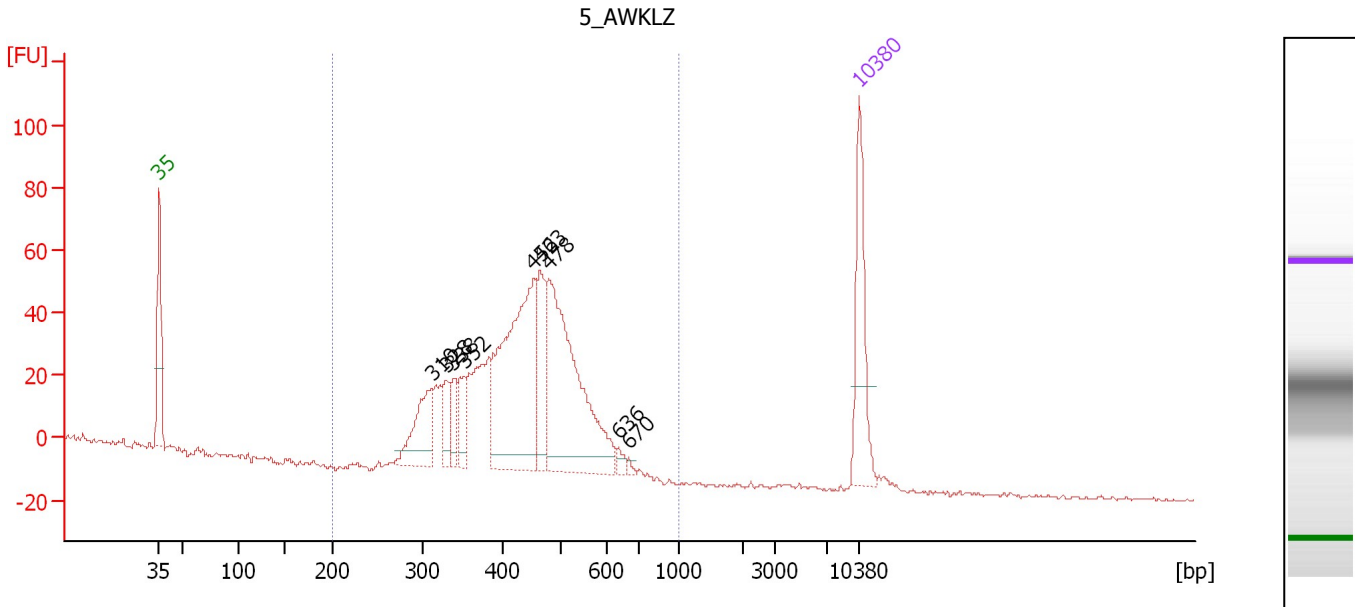
... Region table for sample 7 : 4 H1641P Chechevna

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	390	4,547.01	5,102.4	19,179.6	 95	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 5_AWK LZ

Number of peaks found: 9 Corr. Area 1: 835.3
 Noise: 0.4

Peak table for sample 8 : 5_AWK LZ

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	310	78.57	383.4		70.26
3	328	27.73	128.0		71.70
4	338	27.89	125.1		72.45
5	352	32.12	138.4		73.57
6	452	259.69	870.1		80.45
7	463	71.49	233.7		81.09
8	478	258.28	818.2		81.95
9	636	7.09	16.9		88.94
10	670	3.33	7.5		90.00
11	10,380	75.00	10.9	Upper Marker	113.00

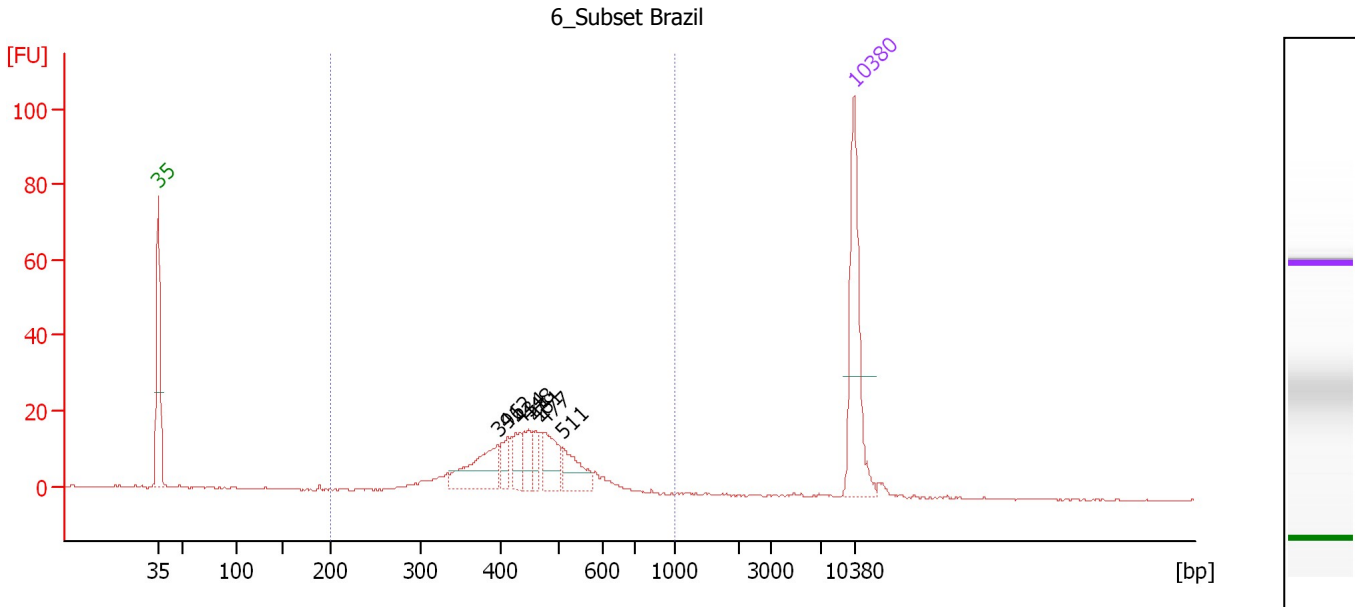
Region table for sample 8 : 5_AWK LZ

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	434	830.74	835.3	3,034.5	100	18.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 6_Subset Brazil

Number of peaks found: 7 Corr. Area 1: 230.2
 Noise: 0.2

Peak table for sample 9 : 6_Subset Brazil

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	396	52.01	198.8		77.17
3	412	16.67	61.3		78.13
4	434	19.70	68.7		79.42
5	448	18.43	62.3		80.23
6	461	13.97	45.9		80.98
7	477	33.72	107.0		81.89
8	511	29.42	87.2		83.71
9	10,380	75.00	10.9	Upper Marker	113.00

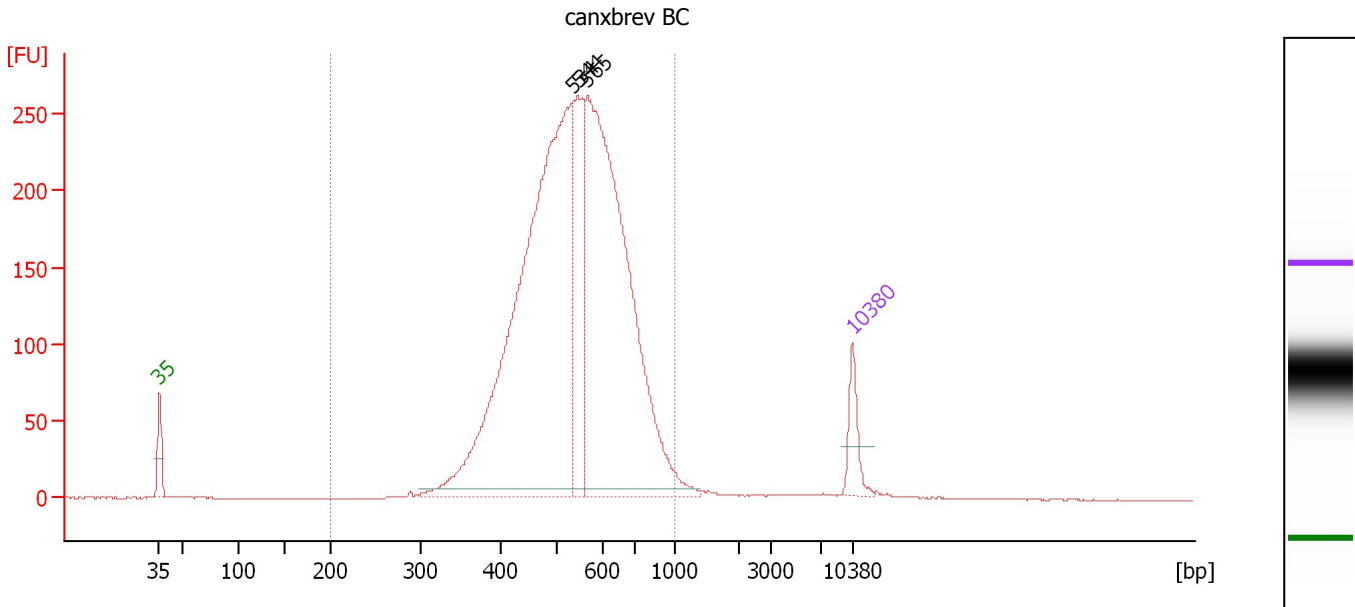
Region table for sample 9 : 6_Subset Brazil

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	448	245.05	230.2	868.3	97	18.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : canxbrev BC

Number of peaks found: 3 Corr. Area 1: 3,760.1
 Noise: 0.2

Peak table for sample 10 : canxbrev 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	534	2,135.87	6,062.4		84.75
3	544	406.41	1,131.3		85.24
4	565	1,658.91	4,446.0		86.21
5	10,380	75.00	10.9	Upper Marker	113.00

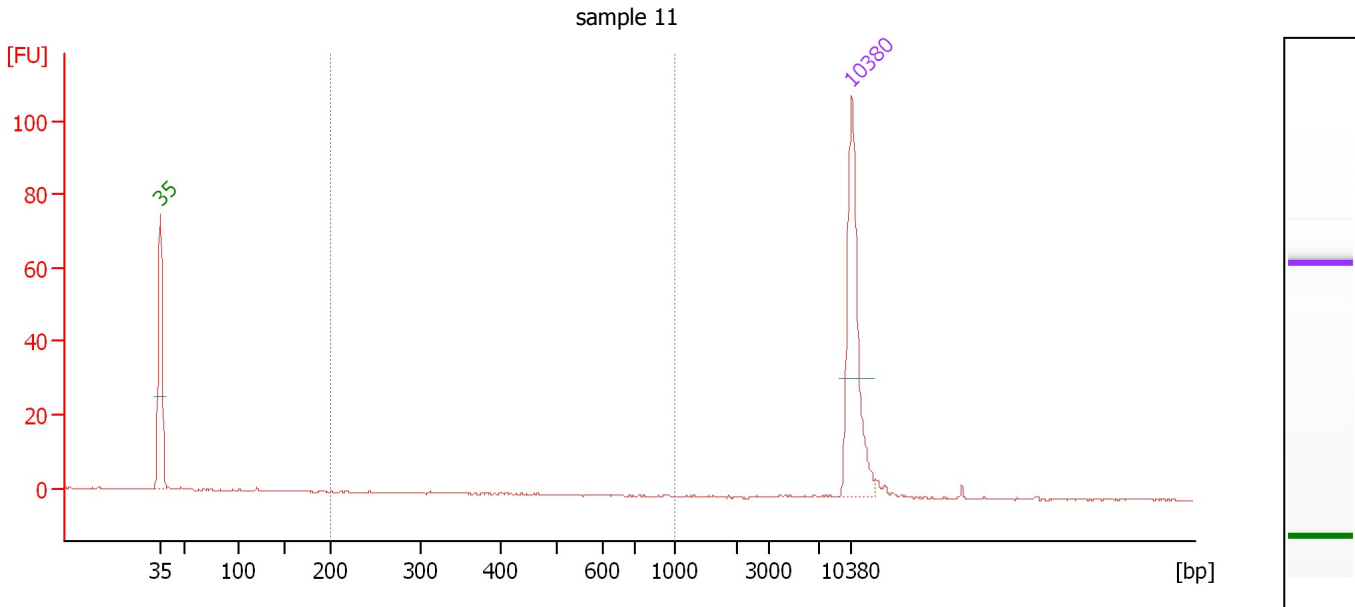
Region table for sample 10 : canxbrev BC

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	545	4,351.65	3,760.1	12,762.6	97	20.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
 Modified: 12/27/2018 12:27:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for sample 11 : sample 11

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 11

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	329	0.08	0.1	0.4	1	17.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-27\2018-12-27_002.xad

Created: 12/27/2018 11:47:23 AM
Modified: 12/27/2018 12:27:53 PM

Gel Image

