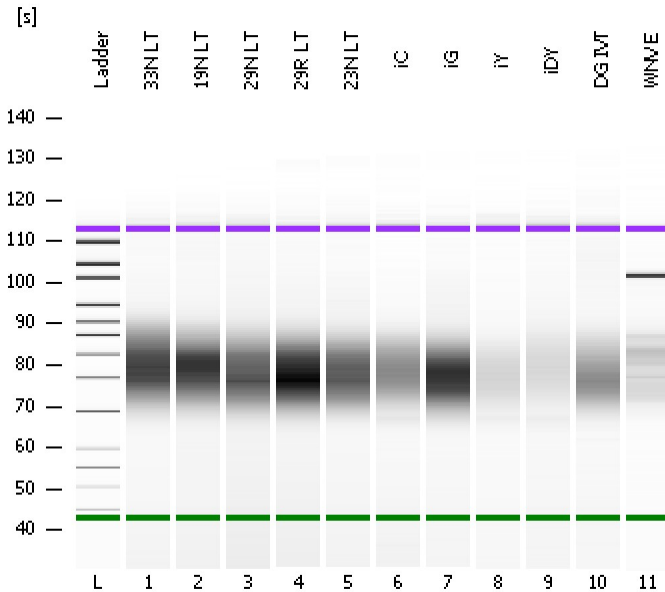


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
Modified: 4/17/2017 11:50:45 AM

### Electrophoresis File Run Summary



#### Instrument Information:

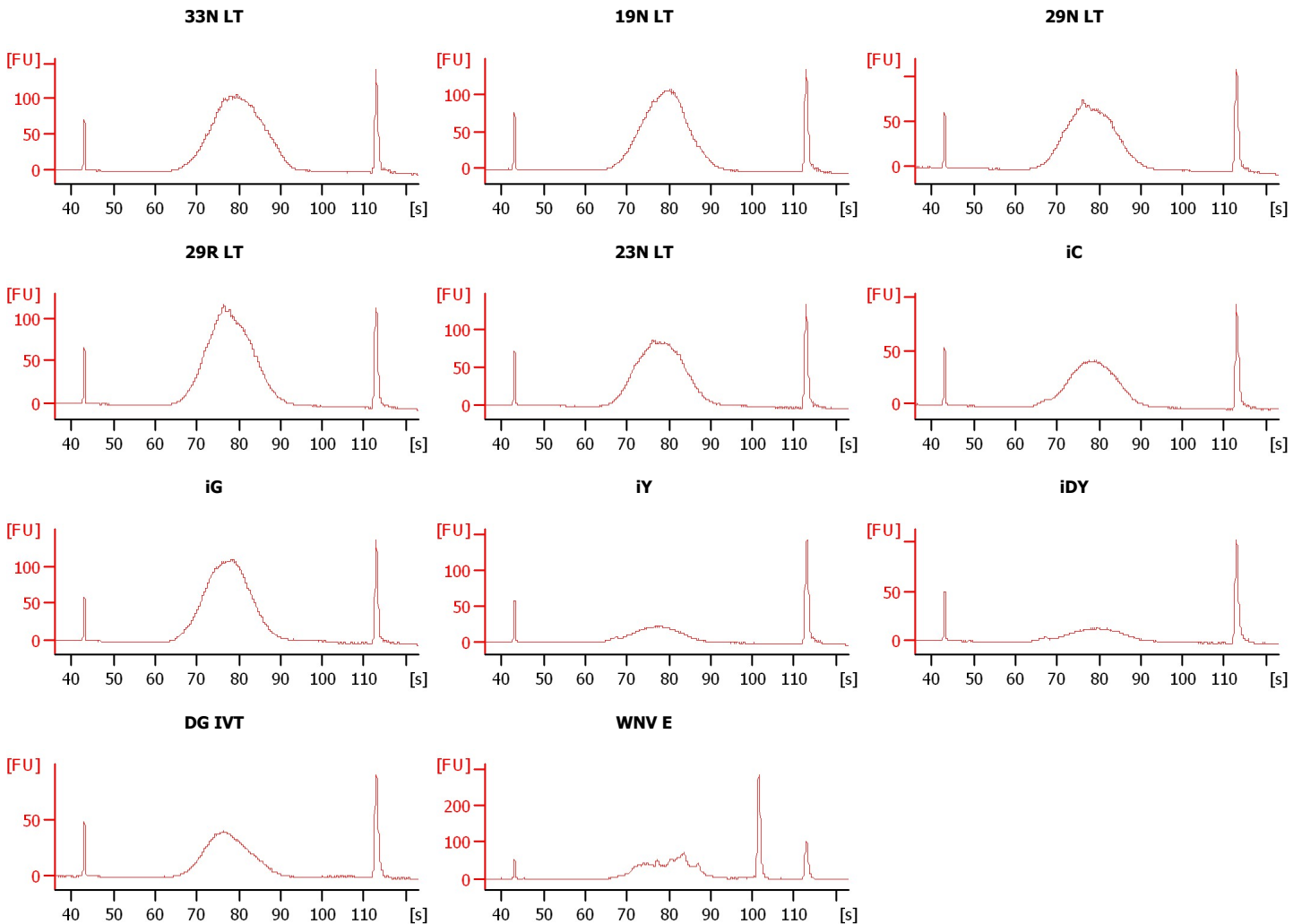
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
33N LT		<input type="checkbox"/>	✓			
19N LT		<input type="checkbox"/>	✓			
29N LT		<input type="checkbox"/>	✓			
29R LT		<input type="checkbox"/>	✓			
23N LT		<input type="checkbox"/>	✓			
iC		<input type="checkbox"/>	✓			
iG		<input type="checkbox"/>	✓			
iY		<input type="checkbox"/>	✓			
iDY		<input type="checkbox"/>	✓			
DG IVT		<input type="checkbox"/>	✓			
WNV E		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

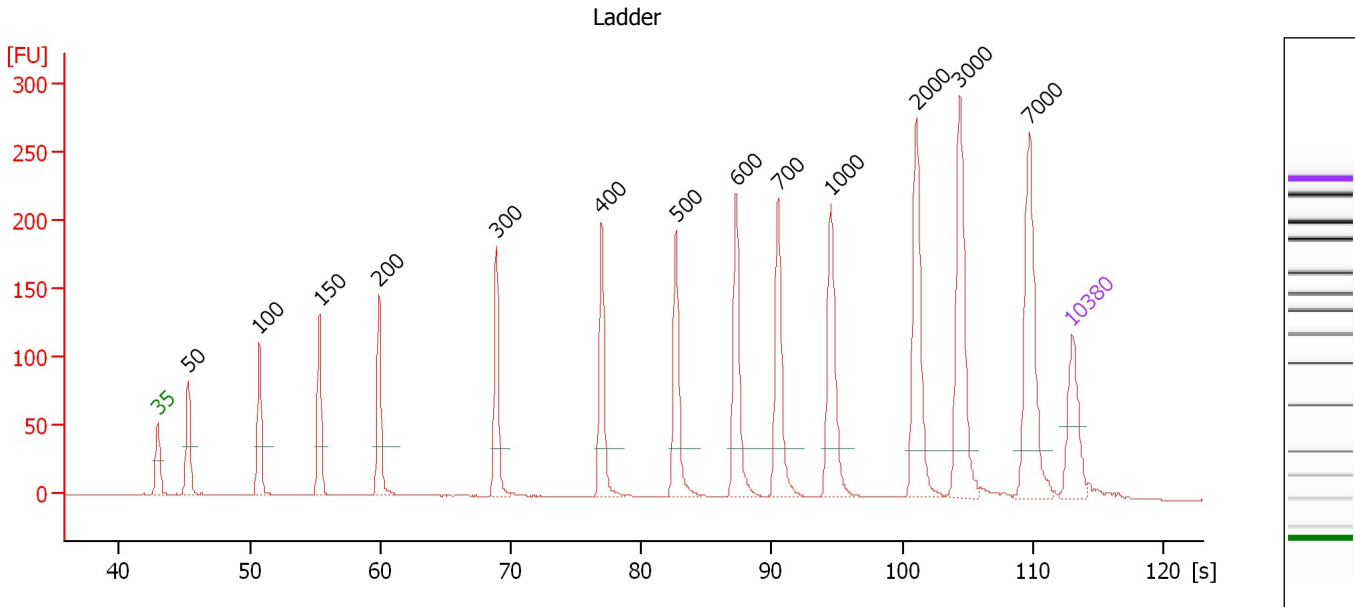
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

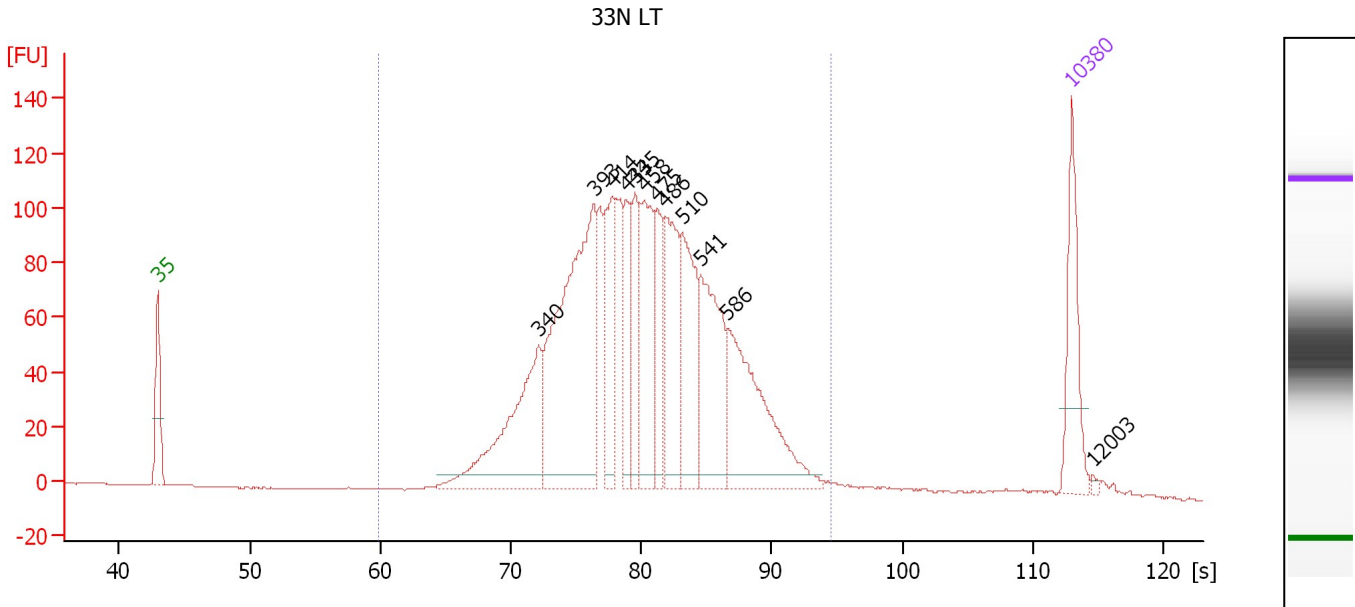
**Peak table for Ladder**

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.37
5	200	150.00	1,136.4	Ladder Peak	59.92
6	300	150.00	757.6	Ladder Peak	68.93
7	400	150.00	568.2	Ladder Peak	76.97
8	500	150.00	454.5	Ladder Peak	82.66
9	600	150.00	378.8	Ladder Peak	87.29
10	700	150.00	324.7	Ladder Peak	90.48
11	1,000	150.00	227.3	Ladder Peak	94.51
12	2,000	150.00	113.6	Ladder Peak	101.06
13	3,000	150.00	75.8	Ladder Peak	104.39
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 33N LT**

Number of peaks found: 12                      Corr. Area 1: 2,109.2  
 Noise: 0.2

**Peak table for sample 1 : 33N LT**

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	340	221.67	988.8		72.12
3	393	407.27	1,571.6		76.38
4	414	113.19	414.5		77.76
5	433	78.60	275.3		78.82
6	445	78.39	266.9		79.53
7	458	135.85	449.9		80.24
8	475	83.63	266.9		81.22
9	486	133.59	416.8		81.84
10	510	137.80	409.3		83.13
11	541	159.83	447.8		84.55
12	586	197.04	509.6		86.63
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,003	0.00	0.0		114.55

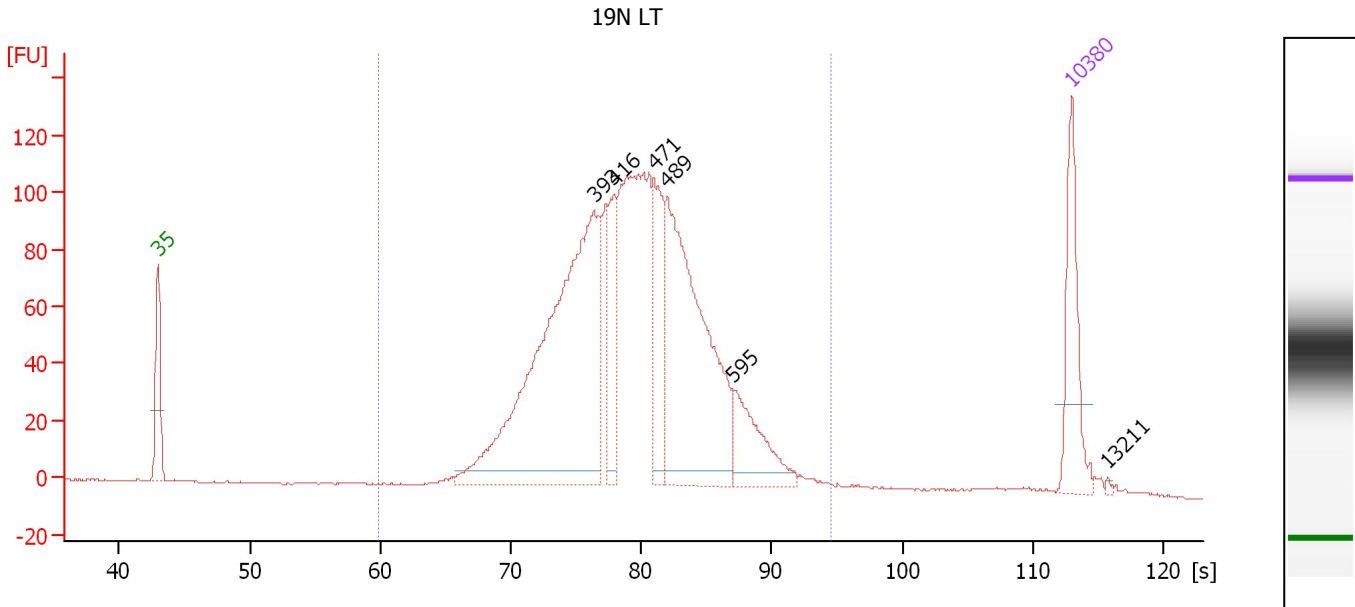
**Region table for sample 1 : 33N LT**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	466	2,109.2	6,788.7	1,947.23	97	23.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 19N LT**

Number of peaks found: 6                      Corr. Area 1: 1,905.7  
 Noise: 0.2

**Peak table for sample 2 : 19N LT**

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	393	558.17	2,154.3		76.37
3	416	82.93	301.7		77.91
4	471	107.99	347.7		80.98
5	489	362.74	1,124.4		82.02
6	595	79.66	202.7		87.08
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,211	0.00	0.0		115.71

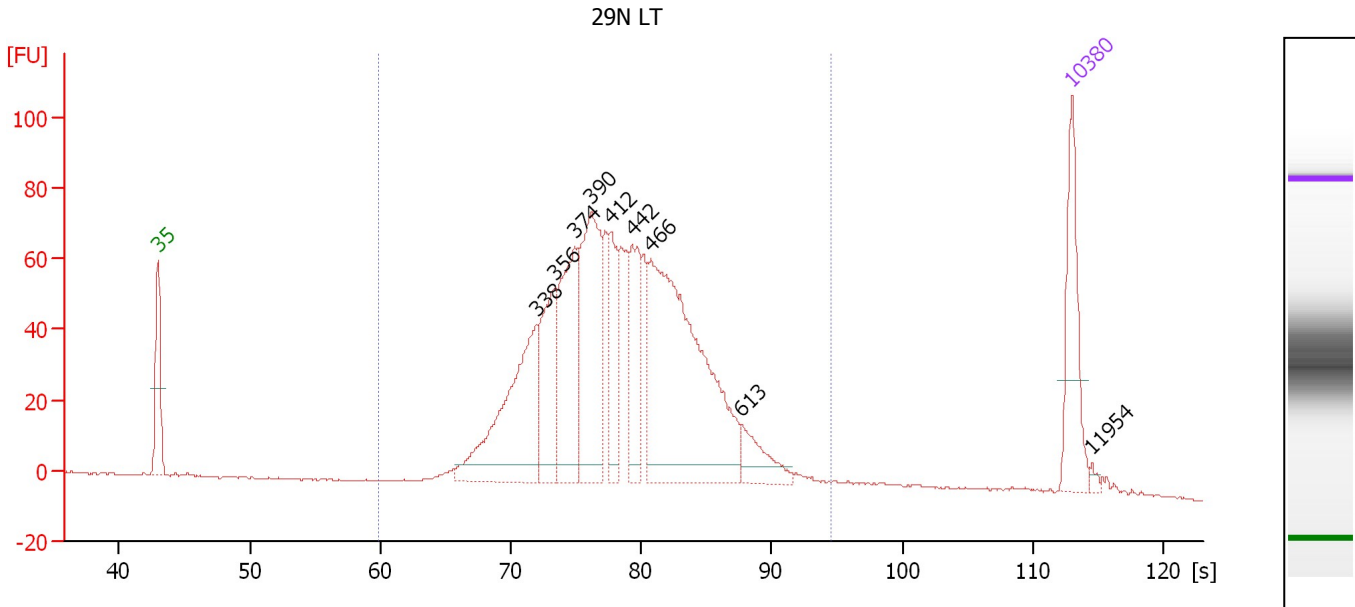
**Region table for sample 2 : 19N LT**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	451	1,905.7	5,919.7	1,661.95	97	21.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 29N LT**

Number of peaks found: 9                      Corr. Area 1: 1,343.3  
 Noise: 0.2

**Peak table for sample 3 : 29N LT**

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	338	217.07	972.7		72.00
3	356	109.85	467.9		73.41
4	374	144.20	583.5		74.92
5	390	201.38	782.8		76.15
6	412	75.62	278.0		77.66
7	442	83.57	286.6		79.35
8	466	403.93	1,313.7		80.72
9	613	41.43	102.4		87.70
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,954	0.00	0.0		114.51

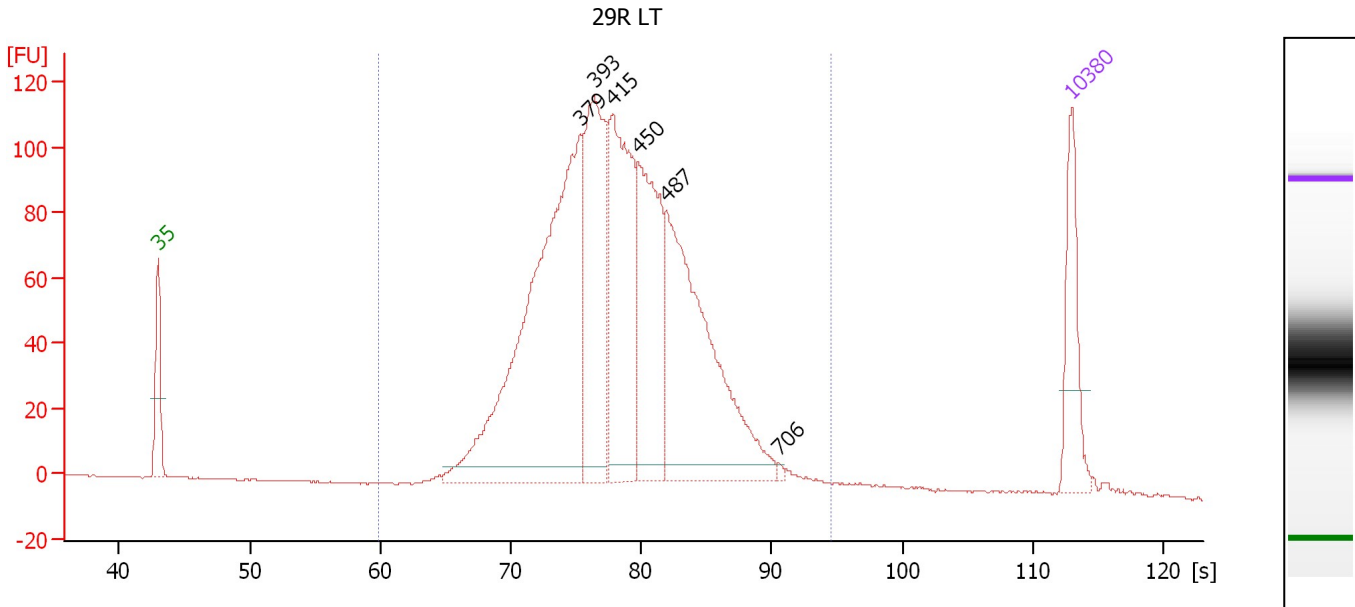
**Region table for sample 3 : 29N LT**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	436	1,343.3	5,418.8	1,469.49	97	22.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 29R LT**

Number of peaks found: 6                      Corr. Area 1: 1,949.3  
 Noise: 0.2

**Peak table for sample 4 : 29R LT**

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	379	667.86	2,667.5		75.31
3	393	279.33	1,078.0		76.38
4	415	301.16	1,100.0		77.81
5	450	240.40	809.6		79.81
6	487	404.44	1,257.3		81.94
7	706	3.08	6.6		90.56
8	10,380	75.00	10.9	Upper Marker	113.00

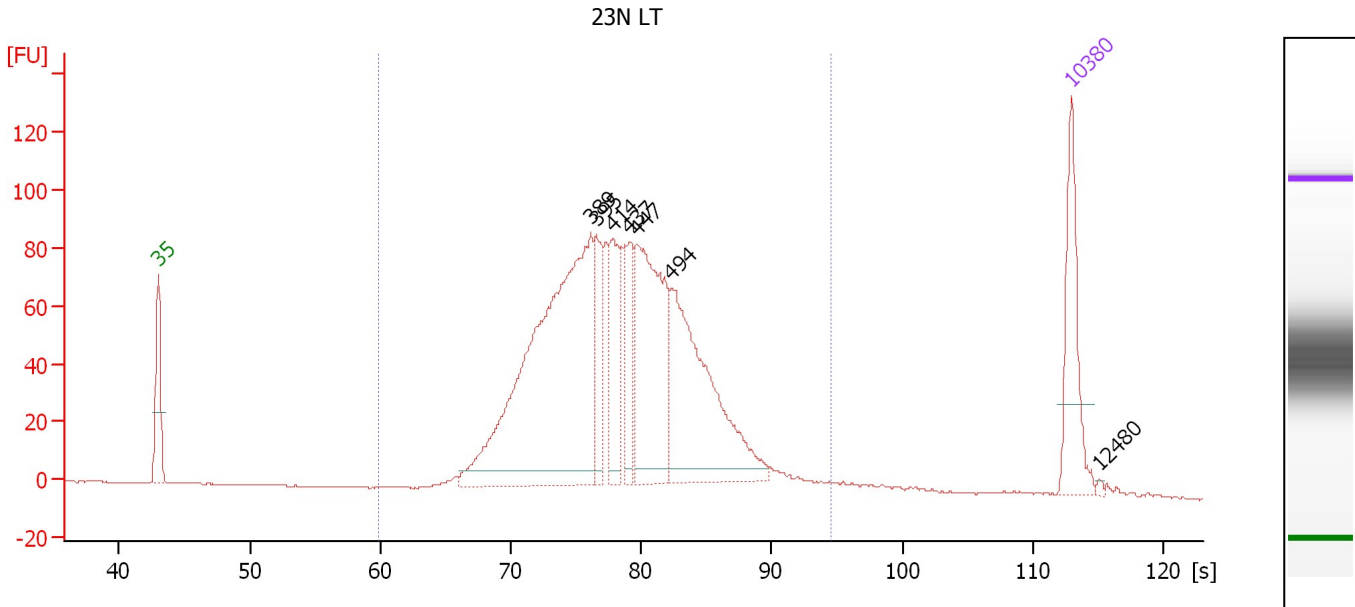
**Region table for sample 4 : 29R LT**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	431	1,949.3	7,255.7	1,956.78	100	20.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 23N LT**

Number of peaks found: 7                      Corr. Area 1: 1,571.7  
 Noise: 0.2

**Peak table for sample 5 : 23N LT**

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	538.53	2,096.3		76.11
3	395	64.34	246.8		76.57
4	414	88.67	324.2		77.79
5	437	60.59	209.9		79.10
6	447	223.42	756.8		79.66
7	494	260.95	800.1		82.33
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,481	0.00	0.0		115.01

**Region table for sample 5 : 23N LT**

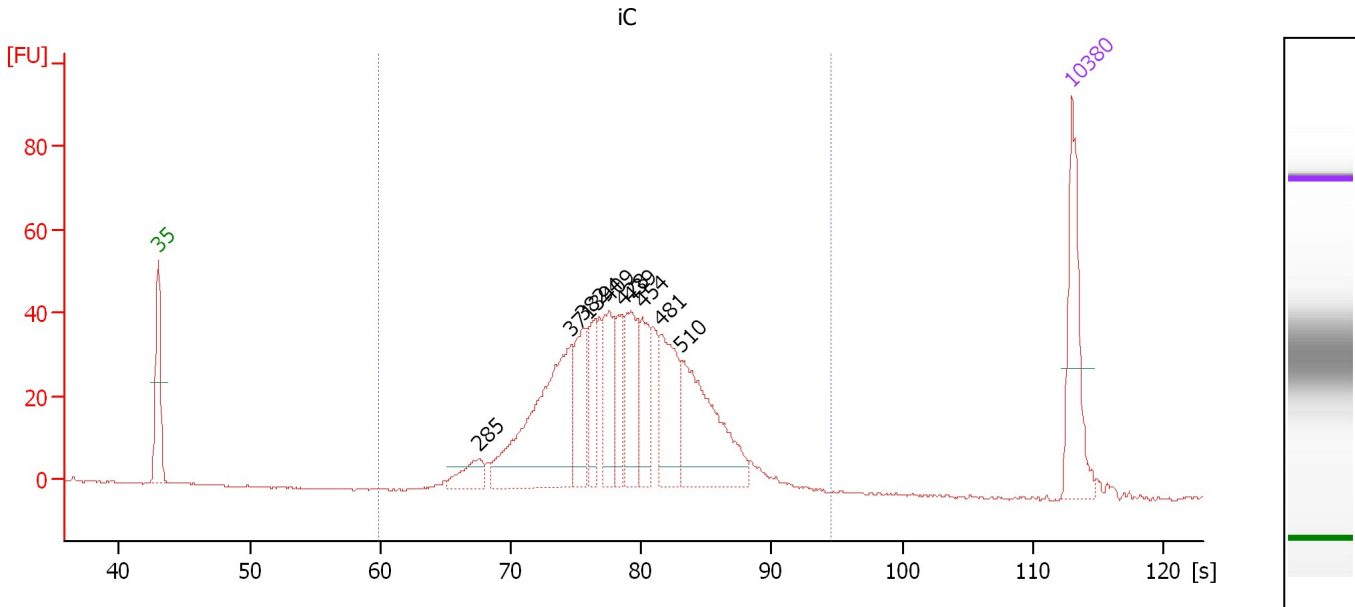
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	434	1,571.7	5,145.2	1,394.54	99	21.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : iC**

Number of peaks found: 10                      Corr. Area 1: 731.5  
 Noise: 0.2

**Peak table for sample 6 : iC**

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	285	29.04	154.3		67.59
3	371	215.10	878.5		74.64
4	382	68.93	273.3		75.53
5	394	44.11	169.5		76.52
6	409	61.46	227.5		77.51
7	428	44.36	156.9		78.59
8	439	69.32	239.2		79.20
9	454	56.73	189.3		80.04
10	481	85.22	268.7		81.55
11	510	145.76	433.4		83.10
12	10,380	75.00	10.9	Upper Marker	113.00

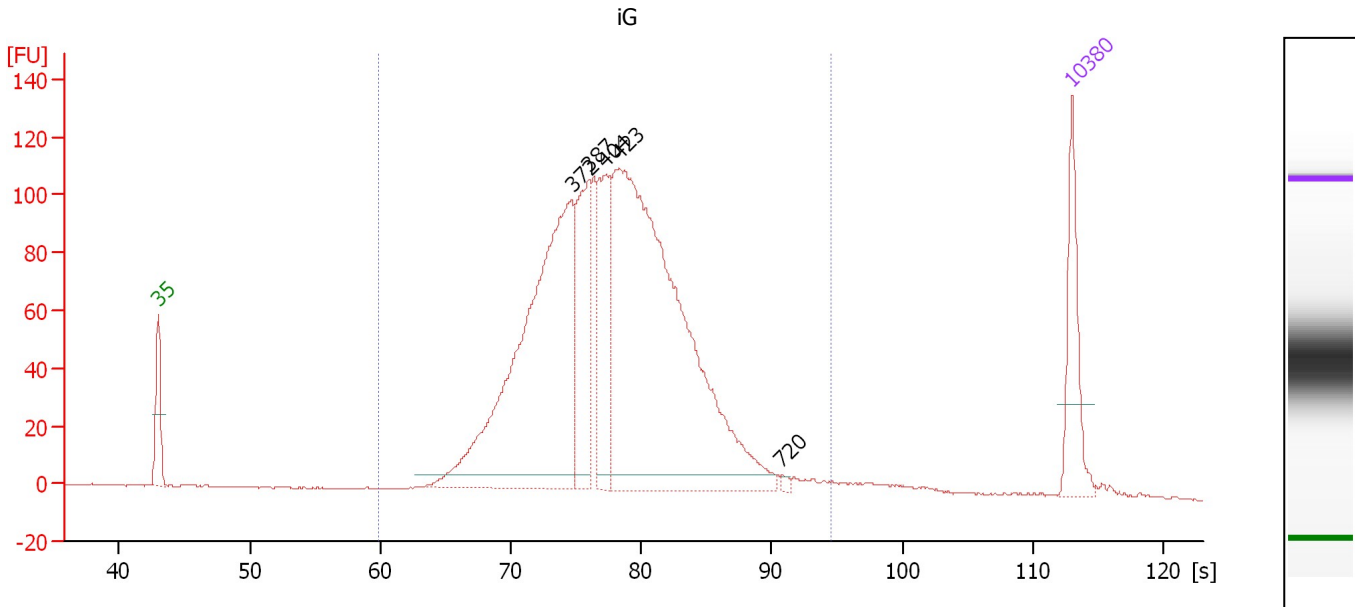
**Region table for sample 6 : iC**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	438	731.5	3,406.4	934.49	100	19.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : iG**

Number of peaks found: 5                      Corr. Area 1: 1,943.6  
 Noise: 0.2

**Peak table for sample 7 : iG**

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	372	644.78	2,627.0		74.71
3	387	161.60	632.4		75.94
4	404	150.76	564.9		77.22
5	423	878.26	3,142.2		78.31
6	720	4.05	8.5		90.76
7	10,380	75.00	10.9	Upper Marker	113.00

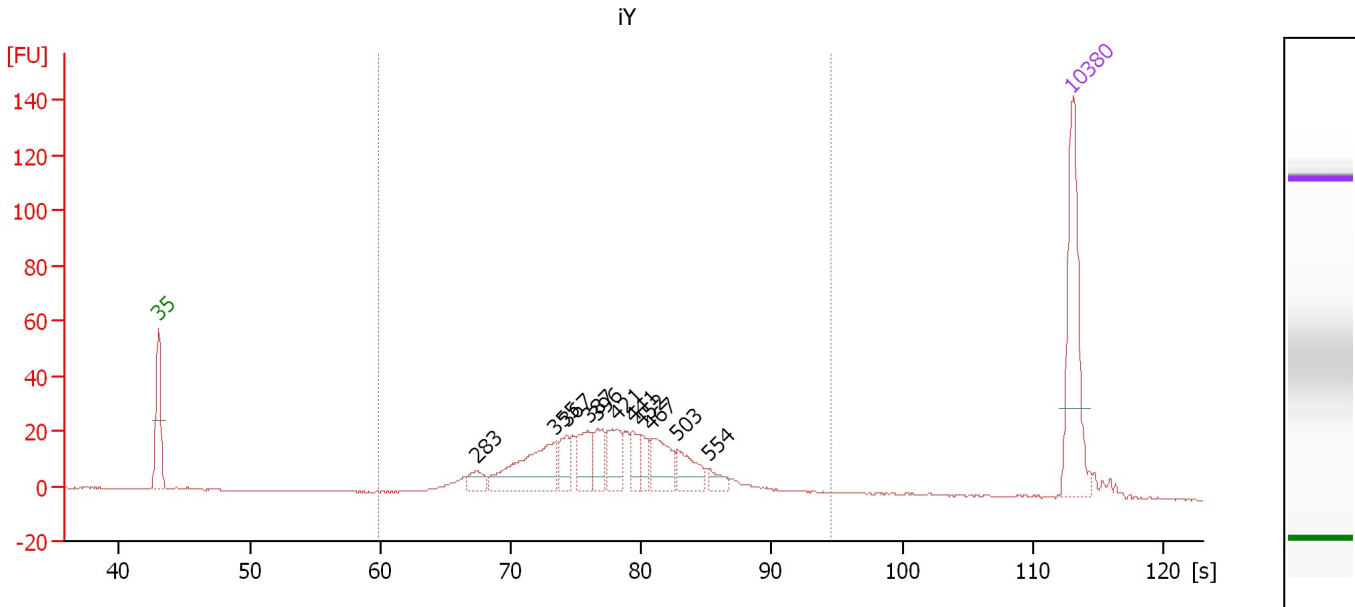
**Region table for sample 7 : iG**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	424	1,943.6	7,337.3	1,940.63	98	21.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : iY**

Number of peaks found: 11                      Corr. Area 1: 421.7  
 Noise: 0.2

**Peak table for sample 8 : iY**

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	283	13.90	74.4		67.41
3	355	71.87	306.8		73.35
4	367	20.29	83.8		74.30
5	387	29.15	114.2		75.91
6	396	21.93	83.9		76.67
7	421	30.47	109.8		78.14
8	441	16.92	58.1		79.33
9	452	13.85	46.4		79.95
10	467	31.46	102.0		80.80
11	503	26.45	79.7		82.80
12	554	9.04	24.7		85.17
13	10,380	75.00	10.9	Upper Marker	113.00

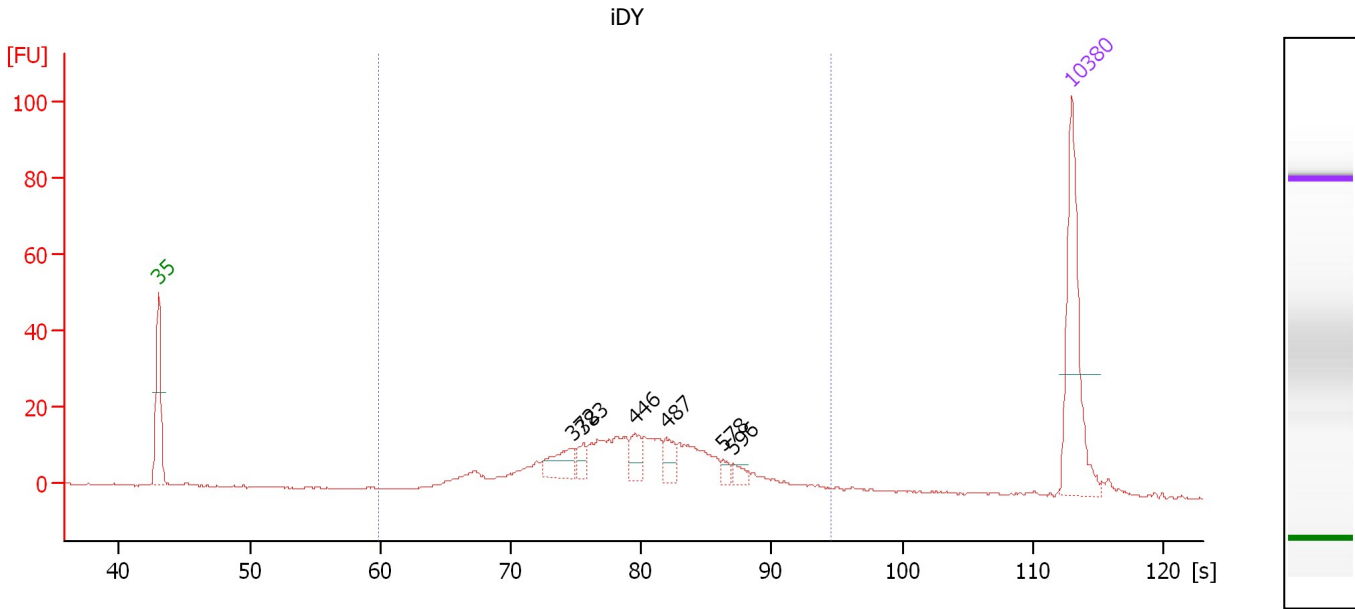
**Region table for sample 8 : iY**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	423	421.7	1,399.6	366.39	96	22.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
 Modified: 4/17/2017 11:50:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : iDY**

Number of peaks found: 6                      Corr. Area 1: 290.9  
 Noise: 0.2

**Peak table for sample 9 : iDY**

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	372	24.92	101.5		74.71
3	383	11.08	43.9		75.57
4	446	16.40	55.8		79.57
5	487	15.15	47.1		81.90
6	578	4.98	13.0		86.29
7	596	6.82	17.3		87.10
8	10,380	75.00	10.9	Upper Marker	113.00

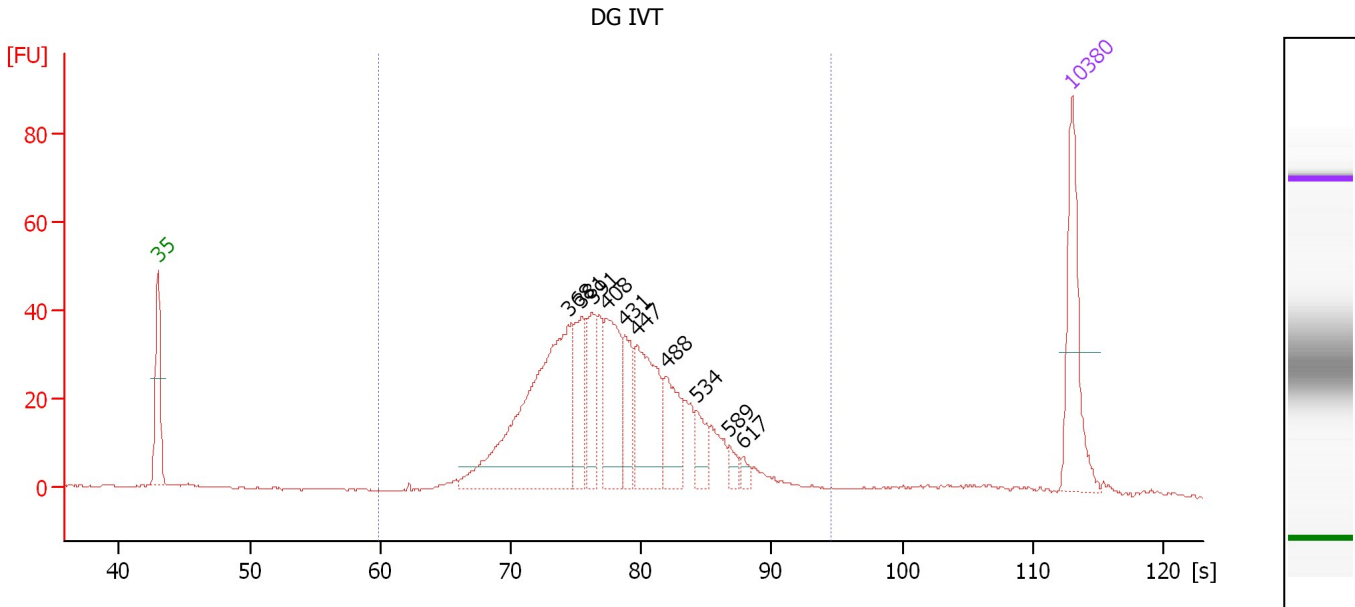
**Region table for sample 9 : iDY**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	461	290.9	1,161.4	322.20	93	26.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : DG IVT**

Number of peaks found: 10                      Corr. Area 1: 692.7  
 Noise: 0.2

**Peak table for sample 10 : DG IVT**

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	290.54	1,197.2		74.37
3	381	69.71	277.3		75.43
4	391	50.42	195.4		76.25
5	408	92.64	344.5		77.40
6	431	46.44	163.2		78.74
7	447	107.73	365.0		79.66
8	488	53.80	167.1		81.96
9	534	25.63	72.8		84.22
10	589	9.27	23.9		86.77
11	617	6.54	16.1		87.82
12	10,380	75.00	10.9	Upper Marker	113.00

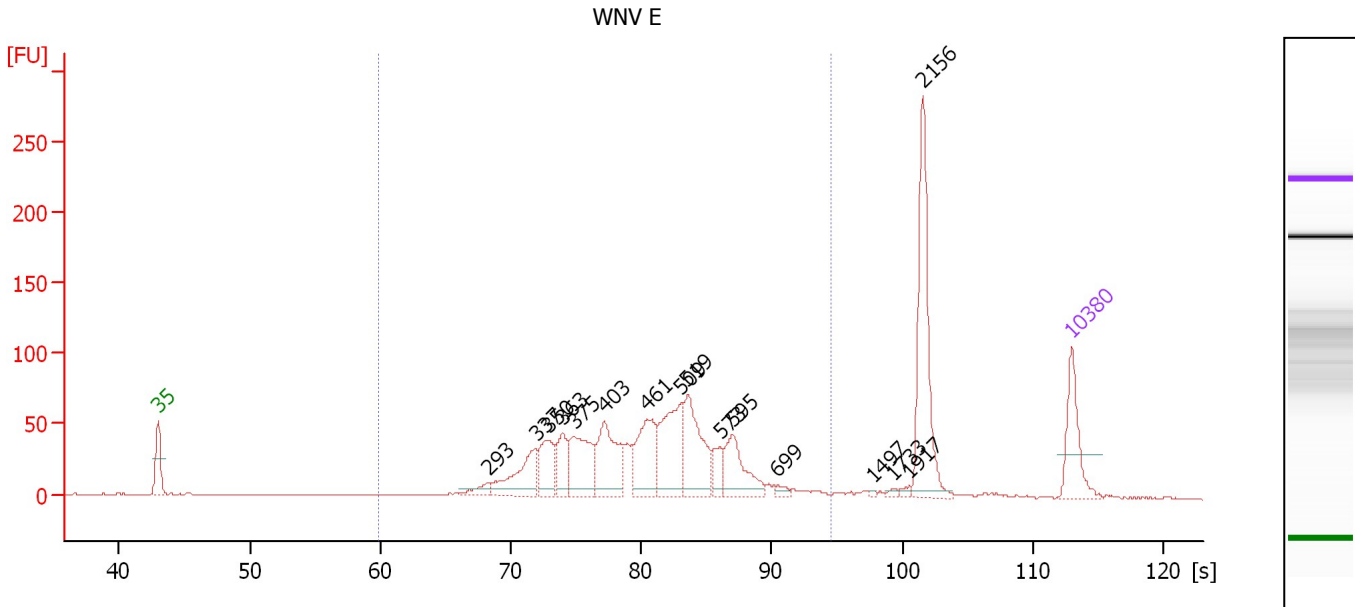
**Region table for sample 10 : DG IVT**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	428	692.7	3,556.9	944.94	93	22.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : WNV E**

Number of peaks found: 16                      Corr. Area 1: 1,045.3  
 Noise: 0.5

**Peak table for sample 11 : WNV E**

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	293	23.72	122.9		68.25
3	337	104.60	469.9		71.93
4	350	82.27	356.2		72.94
5	363	59.52	248.3		74.01
6	375	126.02	509.7		74.93
7	403	131.59	494.5		77.15
8	461	128.54	422.4		80.44
9	509	151.87	452.4		83.06
10	519	142.98	417.4		83.54
11	573	36.00	95.1		86.05
12	595	91.84	233.8		87.07
13	699	10.11	21.9		90.46
14	1,497	2.57	2.6		97.76
15	1,733	4.71	4.1		99.31
16	1,917	4.96	3.9		100.52
17	2,156	198.84	139.7		101.58
18	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : WNV E**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
59.92	94.51	463	1,045.3	4,136.6	1,176.82	78	23.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-17\2017-04-17\_002.xad

Created: 4/17/2017 11:09:28 AM  
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**Gel Image**

