

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-11\2017-10-11\_002.xad

Created: 10/11/2017 1:42:24 PM  
Modified: 10/11/2017 2:20:04 PM

**Electrophoresis File Run Summary**

Instrument Information:

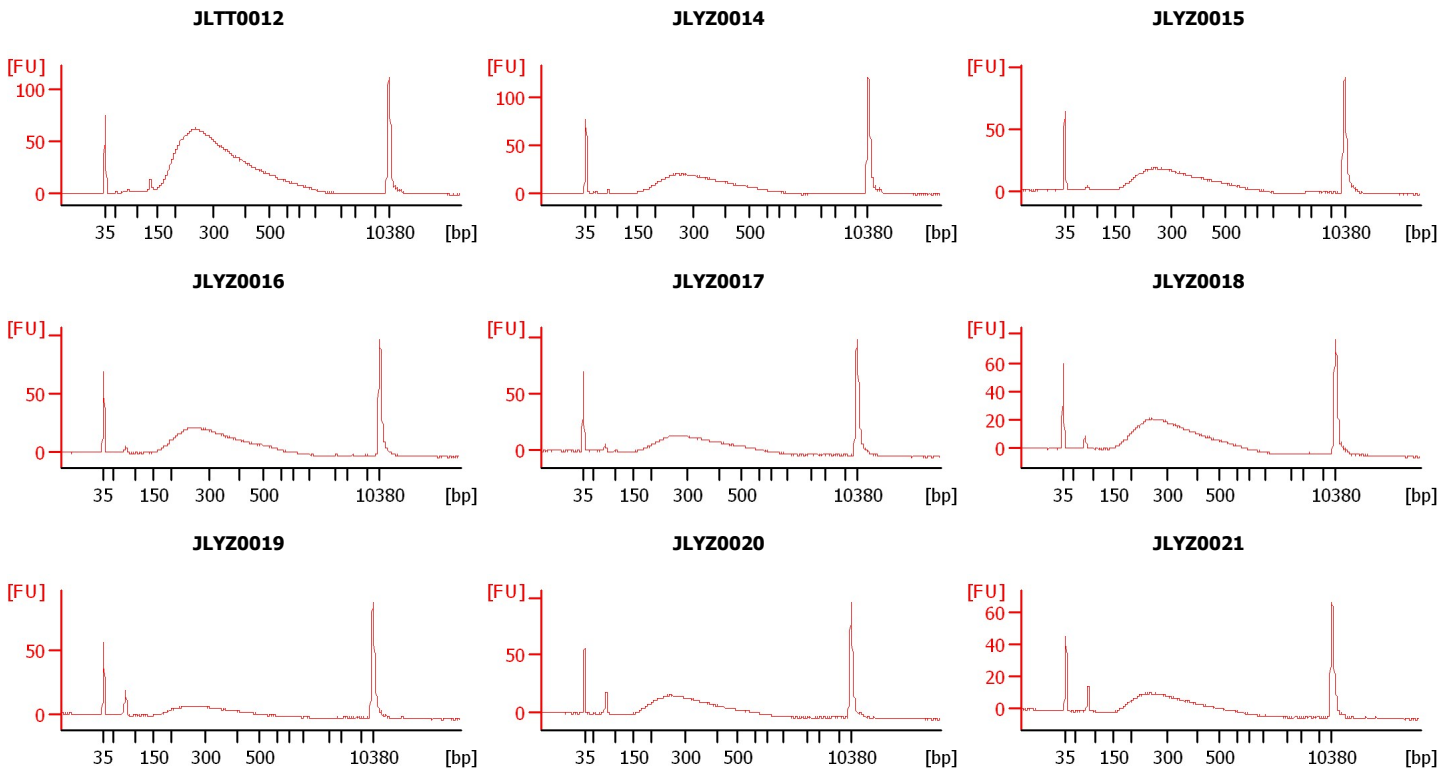
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLTT0012		<input type="checkbox"/>	✓			
JLYZ0014		<input type="checkbox"/>	✓			
JLYZ0015		<input type="checkbox"/>	✓			
JLYZ0016		<input type="checkbox"/>	✓			
JLYZ0017		<input type="checkbox"/>	✓			
JLYZ0018		<input type="checkbox"/>	✓			
JLYZ0019		<input type="checkbox"/>	✓			
JLYZ0020		<input type="checkbox"/>	✓			
JLYZ0021		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

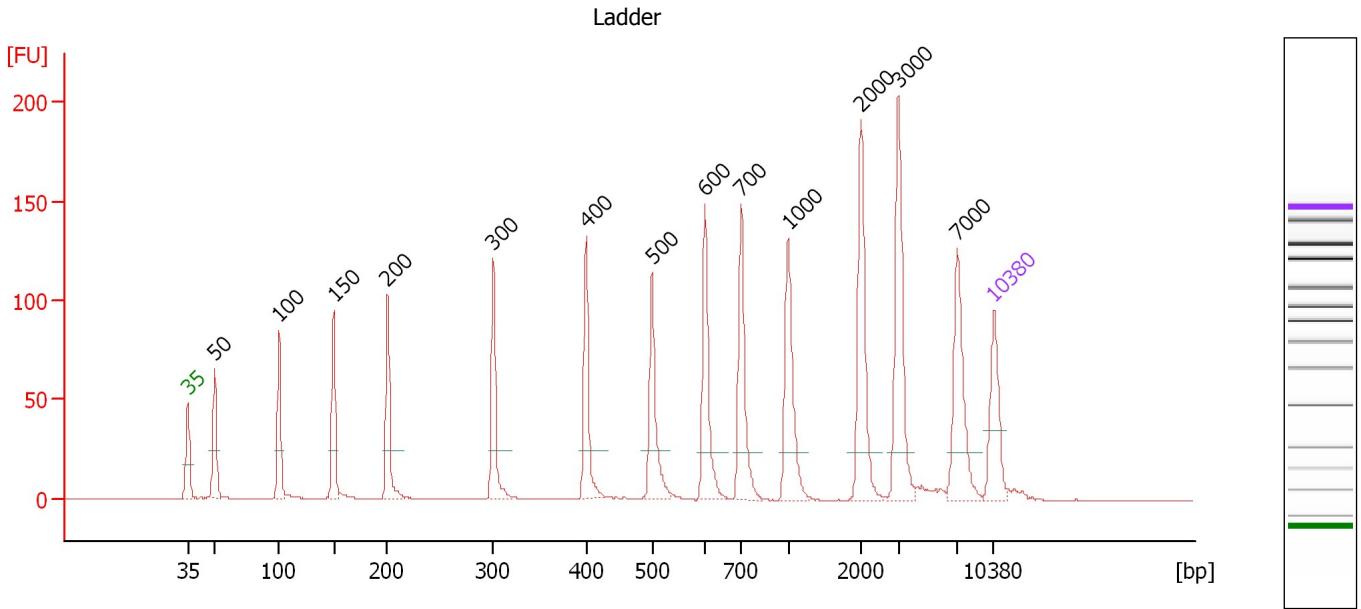
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

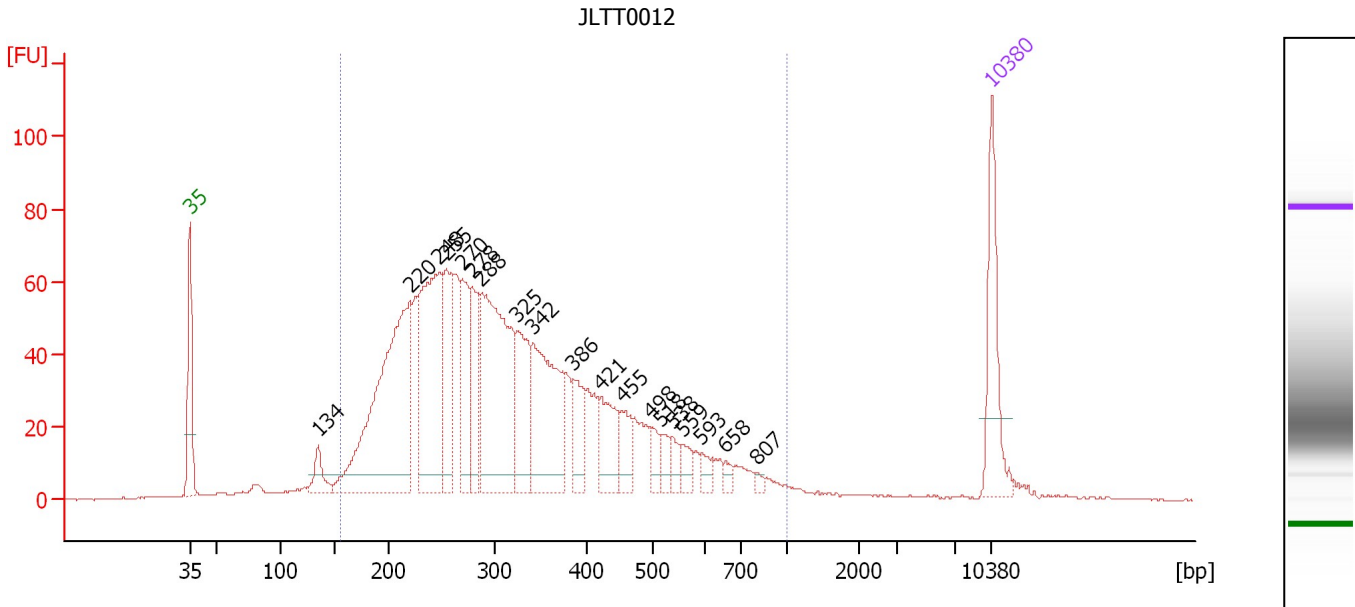
**Peak table for Ladder**

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	50.96
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.36
6	300	150.00	757.6	Ladder Peak	69.57
7	400	150.00	568.2	Ladder Peak	77.63
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	87.95
10	700	150.00	324.7	Ladder Peak	91.06
11	1,000	150.00	227.3	Ladder Peak	95.13
12	2,000	150.00	113.6	Ladder Peak	101.47
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : JLTT0012**

Number of peaks found: 19                      Corr. Area 1: 1,781.7  
 Noise: 0.2

**Peak table for sample 1 : JLTT0012**

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	134	33.77	381.7		54.18
3	220	411.11	2,833.5		62.19
4	248	279.78	1,711.8		64.75
5	255	115.77	688.7		65.40
6	270	94.94	533.0		66.80
7	278	89.73	488.2		67.59
8	288	303.37	1,598.4		68.43
9	325	105.37	492.0		71.55
10	342	184.16	816.2		72.95
11	386	50.72	199.2		76.49
12	421	66.17	238.2		78.82
13	455	35.65	118.7		80.77
14	498	21.76	66.2		83.19
15	518	18.28	53.4		84.17
16	538	16.02	45.1		85.10
17	559	16.80	45.6		86.03
18	593	14.65	37.4		87.62
19	658	8.42	19.4		89.76
20	807	4.94	9.3		92.51
21	10,380	75.00	10.9	Upper Marker	113.00

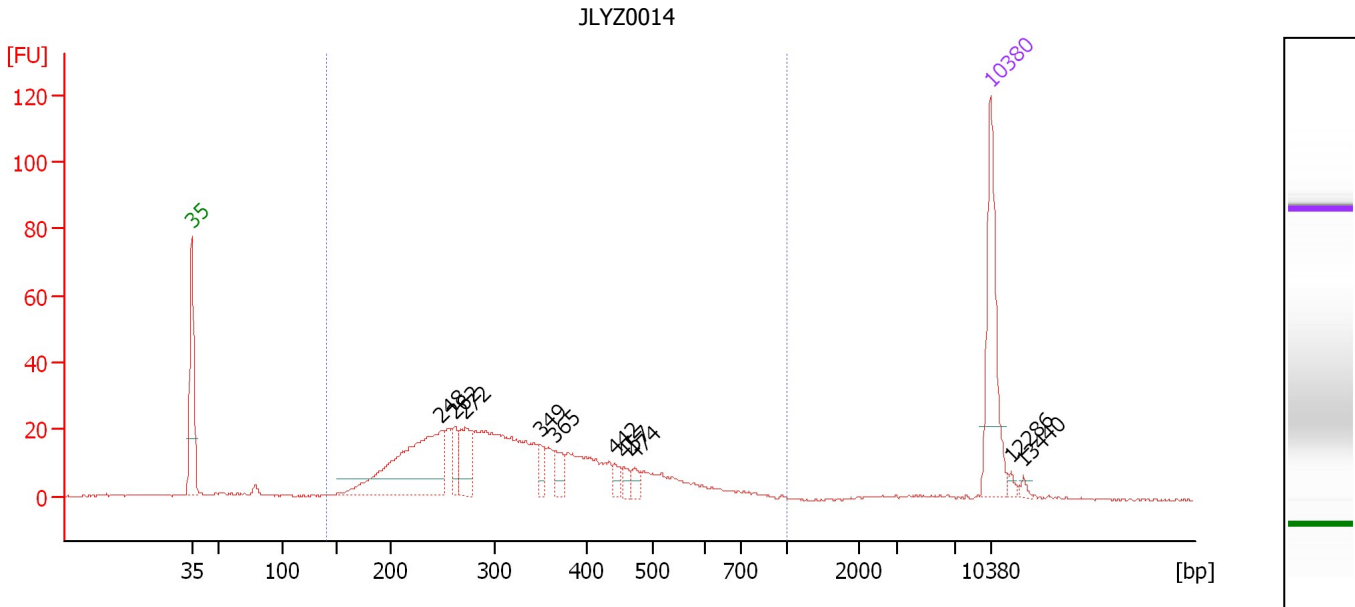
**Region table for sample 1 : JLTT0012**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
155	1,000	335	1,781.7	12,444.2	2,317.39	94	39.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : JLYZ0014**

Number of peaks found: 10                      Corr. Area 1: 588.6  
 Noise: 0.2

**Peak table for sample 2 : JLYZ0014**

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	248	180.70	1,102.1		64.82
3	262	23.59	136.4		66.08
4	272	41.95	233.9		66.97
5	349	14.45	62.8		73.51
6	365	19.93	82.8		74.78
7	442	10.19	34.9		80.01
8	457	7.51	24.9		80.90
9	474	8.77	28.1		81.83
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,286	0.00	0.0		114.78
12	13,440	0.00	0.0		115.85

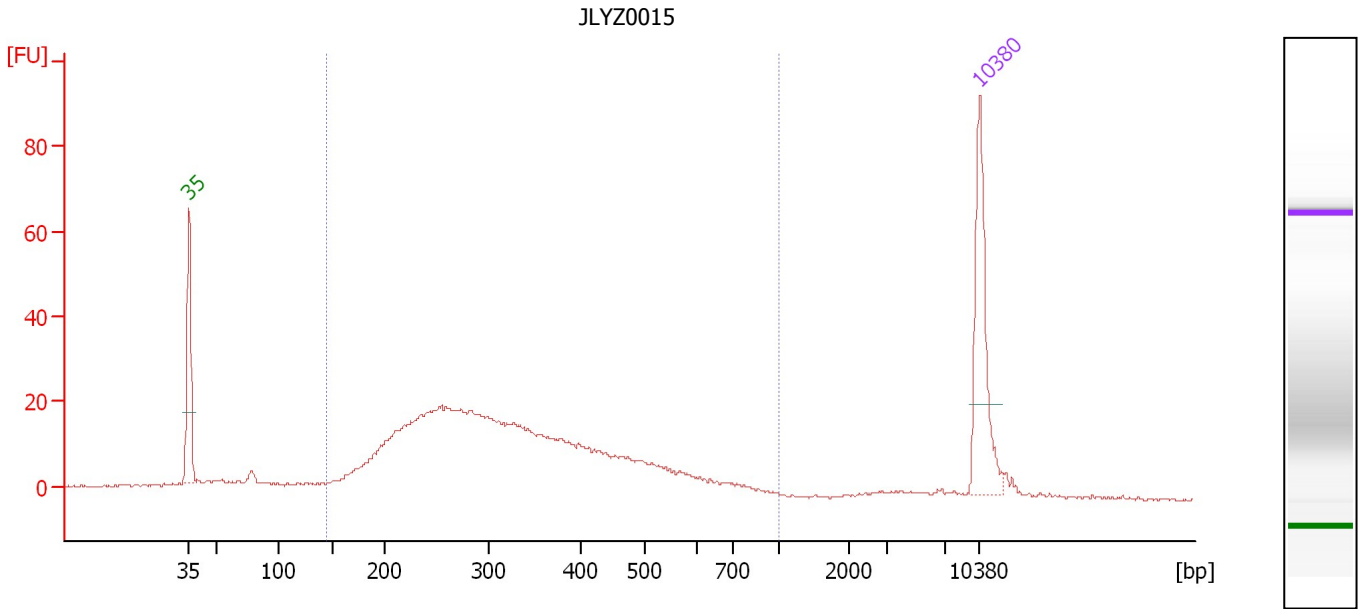
**Region table for sample 2 : JLYZ0014**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
140	1,000	336	588.6	3,622.0	693.63	92	34.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : JLYZ0015**

Number of peaks found: 0                      Corr. Area 1: 565.7  
 Noise: 0.3

**Peak table for sample 3 : JLYZ0015**

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

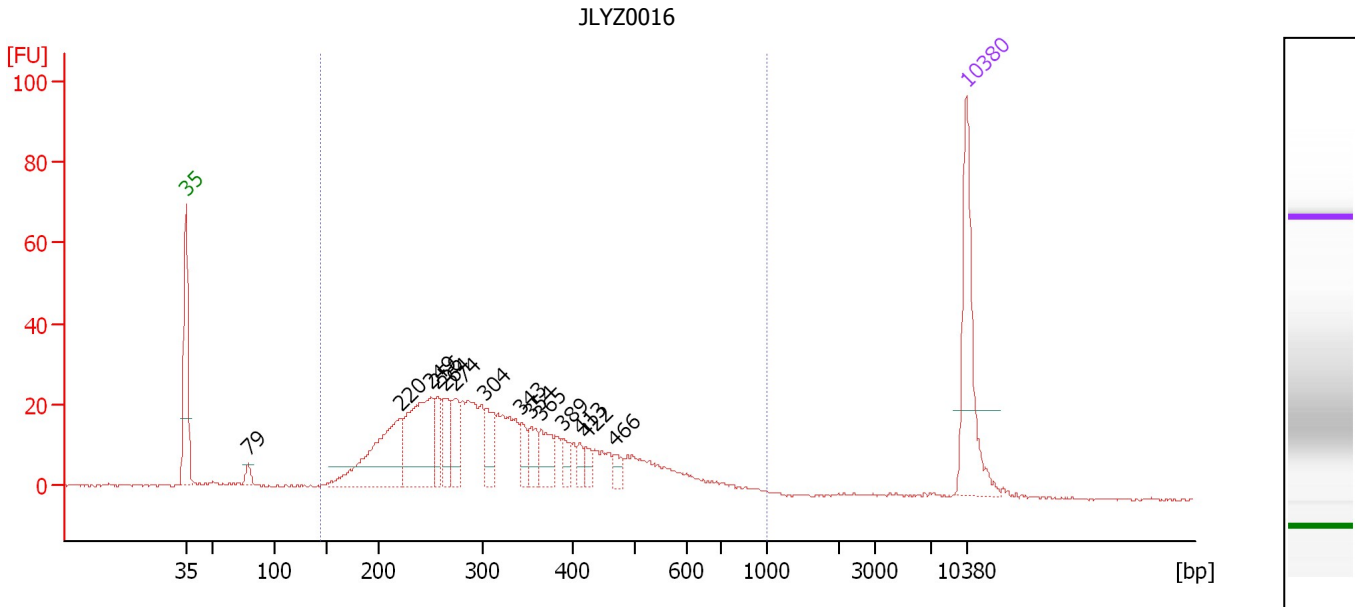
**Region table for sample 3 : JLYZ0015**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
144	1,000	337	565.7	3,926.5	742.13	90	36.9

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : JLYZ0016**

Number of peaks found: 14                      Corr. Area 1: 644.0  
 Noise: 0.3

**Peak table for sample 4 : JLYZ0016**

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	79	10.84	208.4		48.59
3	220	123.71	853.2		62.17
4	249	119.72	727.8		64.90
5	256	29.08	172.1		65.52
6	264	36.71	210.9		66.24
7	274	33.44	185.2		67.15
8	304	32.16	160.5		69.87
9	343	18.90	83.4		73.08
10	354	22.06	94.6		73.89
11	365	29.15	120.9		74.84
12	389	14.51	56.5		76.76
13	413	10.48	38.4		78.38
14	422	8.98	32.2		78.91
15	466	10.79	35.1		81.39
16	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : JLYZ0016**

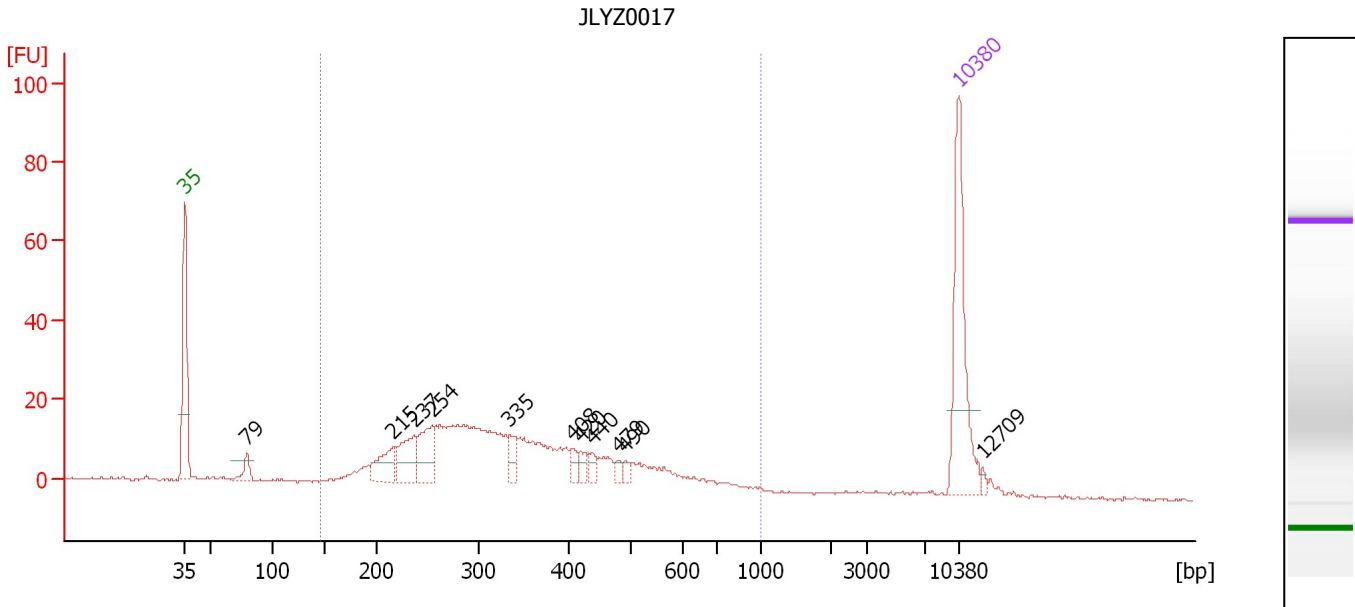
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
144	1,000	337	644.0	4,362.7	830.54	96	36.6



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : JLYZ0017**

Number of peaks found: 11                      Corr. Area 1: 445.2  
 Noise: 0.3

**Peak table for sample 5 : JLYZ0017**

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	79	14.76	283.6		48.59
3	215	31.51	221.9		61.75
4	237	37.05	237.3		63.73
5	254	40.93	244.3		65.32
6	335	14.50	65.6		72.36
7	408	7.71	28.6		78.10
8	420	7.57	27.3		78.77
9	440	7.32	25.2		79.88
10	479	4.85	15.3		82.15
11	490	4.63	14.3		82.77
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,709	0.00	0.0		115.17

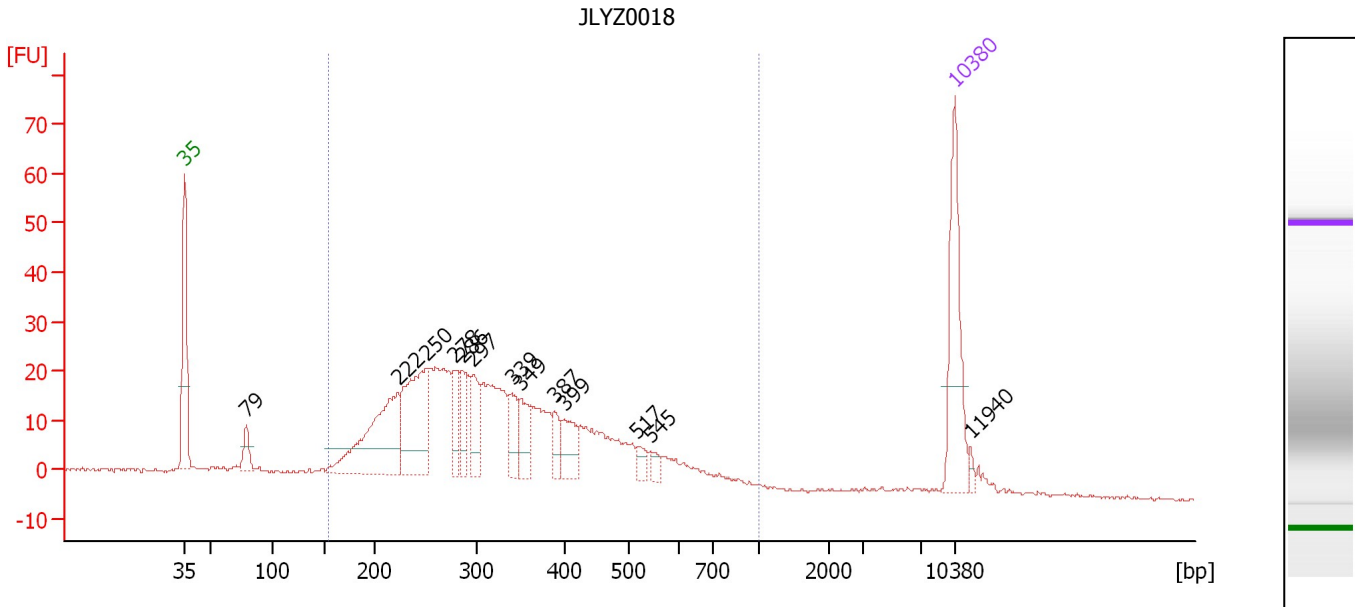
**Region table for sample 5 : JLYZ0017**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	354	445.2	2,629.4	523.17	91	36.6

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : JLYZ0018**

Number of peaks found: 13                      Corr. Area 1: 648.7  
 Noise: 0.4

**Peak table for sample 6 : JLYZ0018**

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	79	23.66	453.3		48.62
3	222	152.70	1,042.7		62.38
4	250	130.96	792.8		64.99
5	278	35.24	192.0		67.56
6	286	31.70	168.2		68.24
7	297	42.82	218.8		69.26
8	339	32.25	144.0		72.74
9	349	35.05	152.2		73.52
10	387	21.31	83.3		76.62
11	399	31.95	121.4		77.54
12	517	11.98	35.1		84.13
13	545	8.38	23.3		85.39
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,940	0.00	0.0		114.45

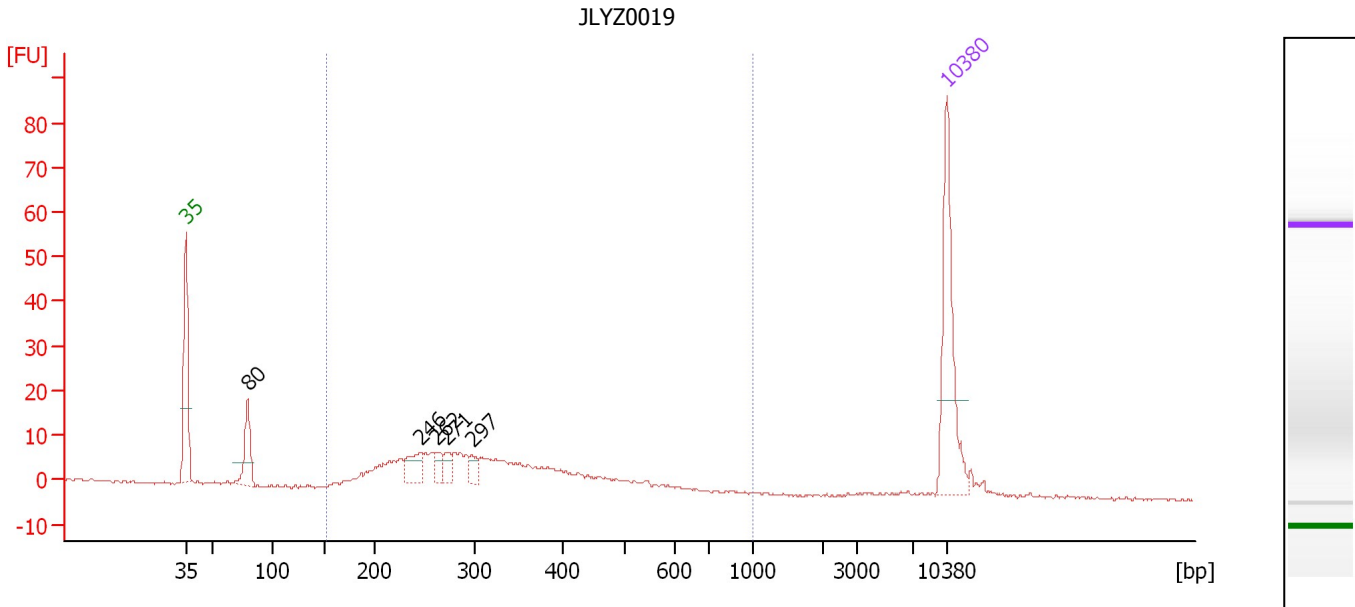
**Region table for sample 6 : JLYZ0018**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
154	1,000	341	648.7	5,303.1	1,019.51	91	36.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : JLYZ0019**

Number of peaks found: 5                      Corr. Area 1: 191.2  
 Noise: 0.4

**Peak table for sample 7 : JLYZ0019**

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	80	45.29	861.2		48.69
3	246	24.46	150.5		64.62
4	262	10.53	60.8		66.09
5	271	11.73	65.5		66.92
6	297	10.61	54.1		69.27
7	10,380	75.00	10.9	Upper Marker	113.00

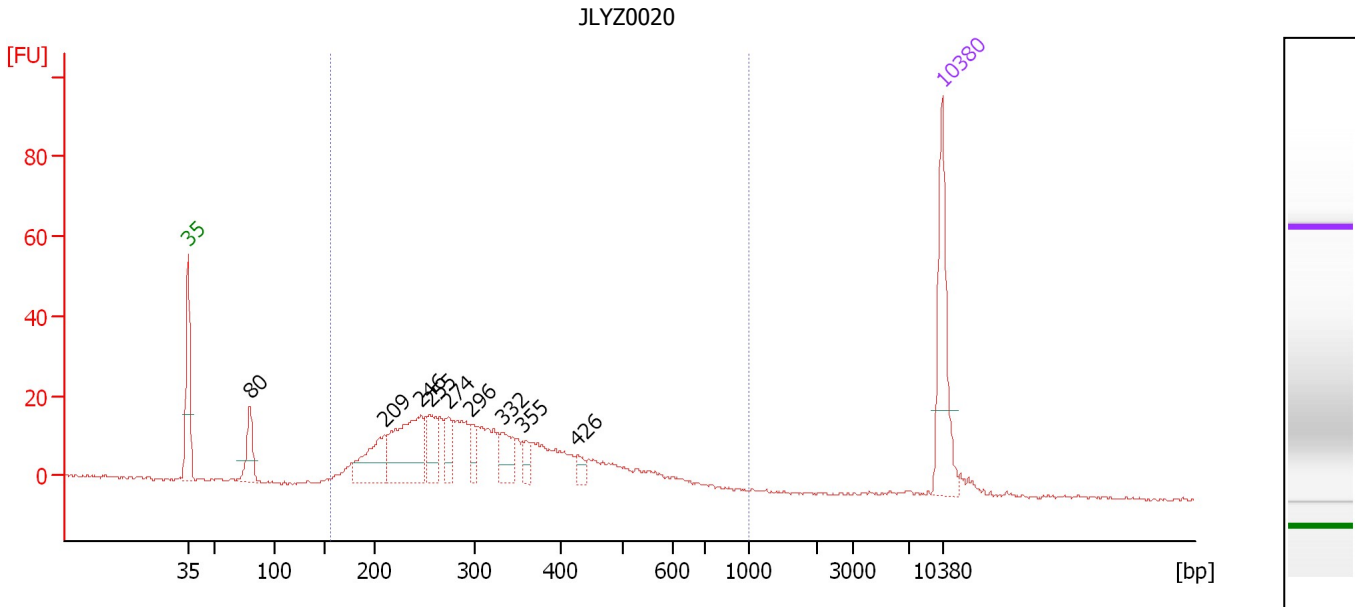
**Region table for sample 7 : JLYZ0019**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
152	1,000	321	191.2	1,449.6	274.67	86	29.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : JLYZ0020**

Number of peaks found: 9                      Corr. Area 1: 456.5  
 Noise: 0.5

**Peak table for sample 8 : JLYZ0020**

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	80	46.92	886.5		48.74
3	209	69.52	503.3		61.22
4	246	122.72	754.7		64.63
5	255	45.03	267.6		65.43
6	274	23.54	130.3		67.16
7	296	21.72	111.0		69.24
8	332	37.71	172.0		72.16
9	355	16.46	70.1		74.04
10	426	9.28	33.0		79.14
11	10,380	75.00	10.9	Upper Marker	113.00

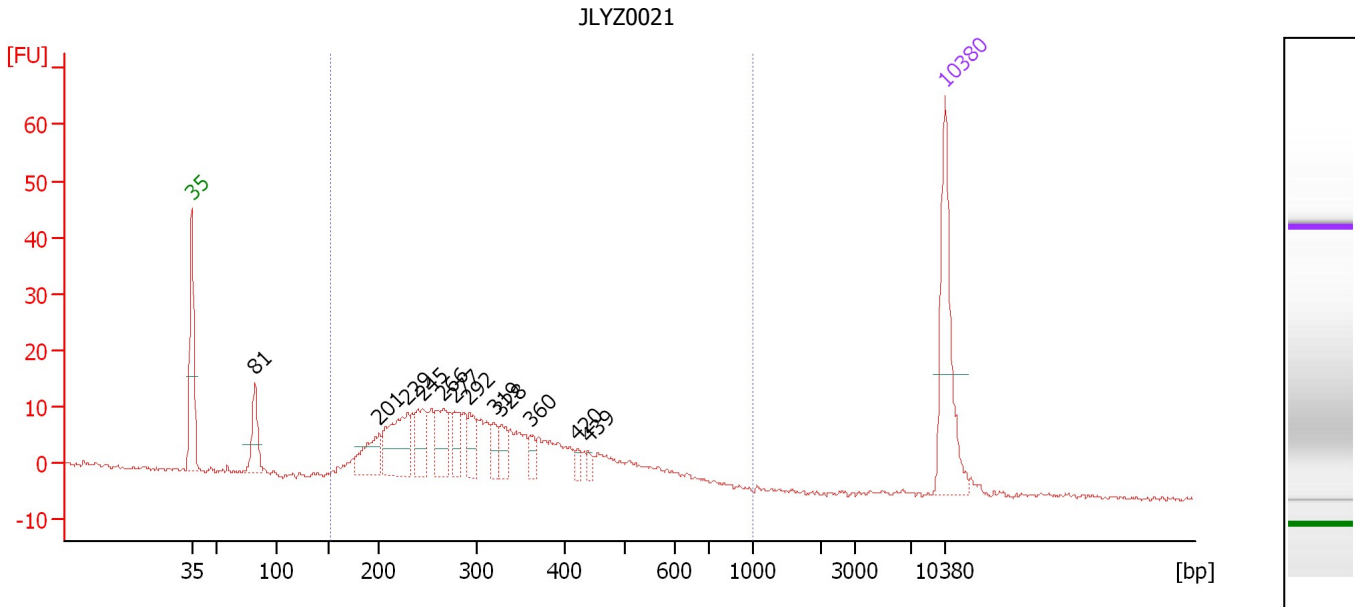
**Region table for sample 8 : JLYZ0020**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
155	1,000	329	456.5	3,571.1	673.24	92	34.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : JLYZ0021**

Number of peaks found: 12                      Corr. Area 1: 309.2  
 Noise: 0.4

**Peak table for sample 9 : JLYZ0021**

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	81	45.15	843.2		48.85
3	201	42.12	317.5		60.45
4	229	74.89	495.6		63.03
5	245	38.17	236.5		64.47
6	266	39.79	227.0		66.40
7	277	22.72	124.4		67.44
8	292	24.74	128.4		68.83
9	319	14.76	70.1		71.11
10	328	18.09	83.6		71.80
11	360	12.08	50.8		74.43
12	420	6.76	24.3		78.79
13	439	6.04	20.9		79.83
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 9 : JLYZ0021**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
152	1,000	323	309.2	2,917.8	545.64	93	32.4

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**Gel Image**

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**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.