

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

Created: 6/18/2015 12:32:47 PM  
Modified: 6/18/2015 1:22:48 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

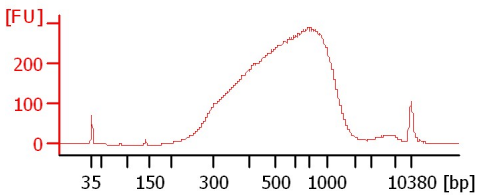
Assay Information:

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

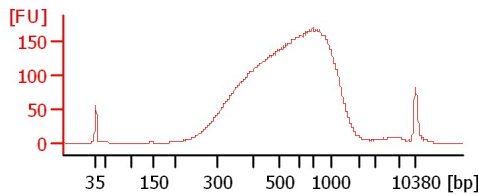
Chip Information:

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

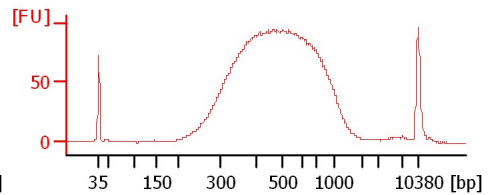
**B6: 93BANA237 (1:12)**



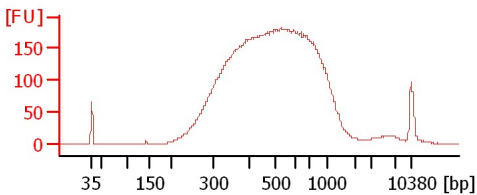
**B7: 93BANA266 (1:11)**



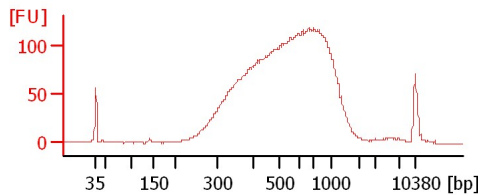
**B8: 06BANA0012 (1:12)**



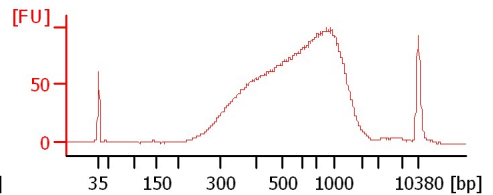
**B9: 93BANA0013 (1:124)**



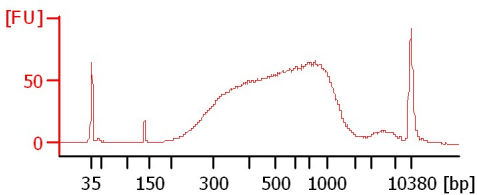
**B10: 06DONE0022 (1:7)**



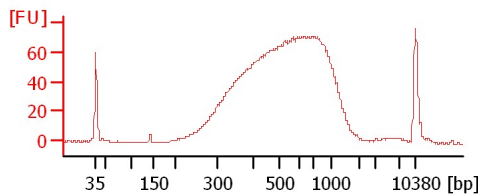
**B11: 06DONE0044 (1:8)**



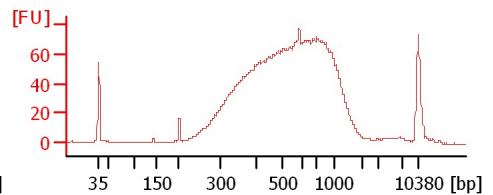
**B12: 06DONE0045 (1:5)**



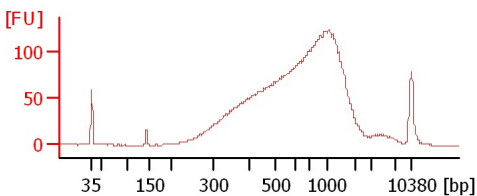
**C1: 06DONE0045 (1:6)**



**C2: 06DONE0104 (1:10)**



**C3: 06DONE0132 (1:9)**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B6: 93BANA237 (1:12)		<input type="checkbox"/>	✓			
B7: 93BANA266 (1:11)		<input type="checkbox"/>	✓			
B8: 06BANA0012 (1:12)		<input type="checkbox"/>	✓			
B9: 93BANA0013 (1:124)		<input type="checkbox"/>	✓			
B10: 06DONE0022 (1:7)		<input type="checkbox"/>	✓			
B11: 06DONE0044 (1:8)		<input type="checkbox"/>	✓			
B12: 06DONE0045 (1:5)		<input type="checkbox"/>	✓			
C1: 06DONE0045 (1:6)		<input type="checkbox"/>	✓			
C2: 06DONE0104 (1:10)		<input type="checkbox"/>	✓			
C3: 06DONE0132 (1:9)		<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

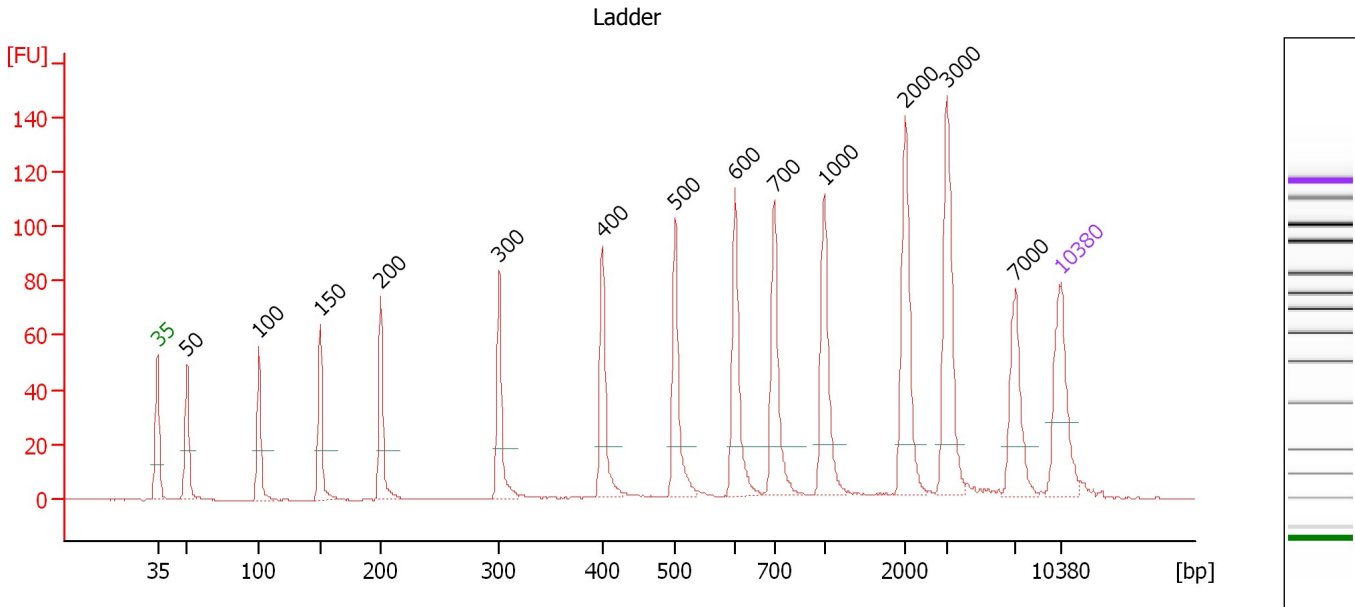
**Ladder**

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: 0.2

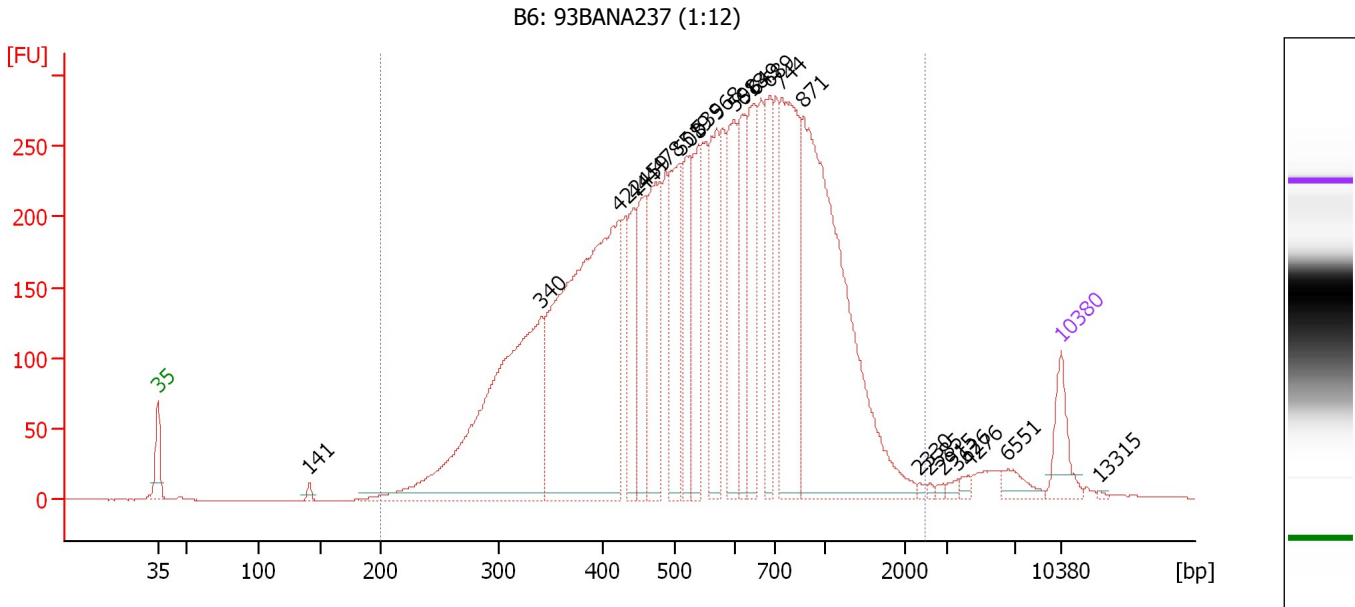
**Peak table for Ladder**

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.85
4	150	150.00	1,515.2	Ladder Peak	55.62
5	200	150.00	1,136.4	Ladder Peak	60.30
6	300	150.00	757.6	Ladder Peak	69.47
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.13
9	600	150.00	378.8	Ladder Peak	87.76
10	700	150.00	324.7	Ladder Peak	90.79
11	1,000	150.00	227.3	Ladder Peak	94.66
12	2,000	150.00	113.6	Ladder Peak	100.95
13	3,000	150.00	75.8	Ladder Peak	104.16
14	7,000	150.00	32.5	Ladder Peak	109.50
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B6: 93BANA237 (1:12)**

Number of peaks found: 23                      Corr. Area 1: 7,784.7  
 Noise: 0.2

**Peak table for sample 2 : B6: 93BANA237 (1:12)**


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	141	14.03	150.7		54.76
3	340	1,063.05	4,731.5		72.70
4	422	1,314.87	4,717.2		78.72
5	444	204.21	697.5		79.93
6	459	236.84	782.0		80.80
7	478	311.13	985.3		81.90
8	508	292.54	872.6		83.50
9	519	183.23	534.5		84.03
10	539	251.24	706.0		84.94
11	568	264.76	705.9		86.29
12	598	261.44	661.9		87.69
13	618	182.42	447.0		88.32
14	649	245.30	572.9		89.23
15	689	207.31	456.2		90.44
16	744	482.16	981.9		91.35
17	871	1,069.35	1,860.4		92.99
18	2,330	5.35	3.5		102.01
19	2,585	5.05	3.0		102.83
20	2,915	5.01	2.6		103.89
21	3,626	8.99	3.8		105.00
22	4,276	10.32	3.7		105.87
23	6,551	33.89	7.8		108.90
24	10,380	75.00	10.9	Upper Marker	113.00
25	13,315	0.00	0.0		116.04

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

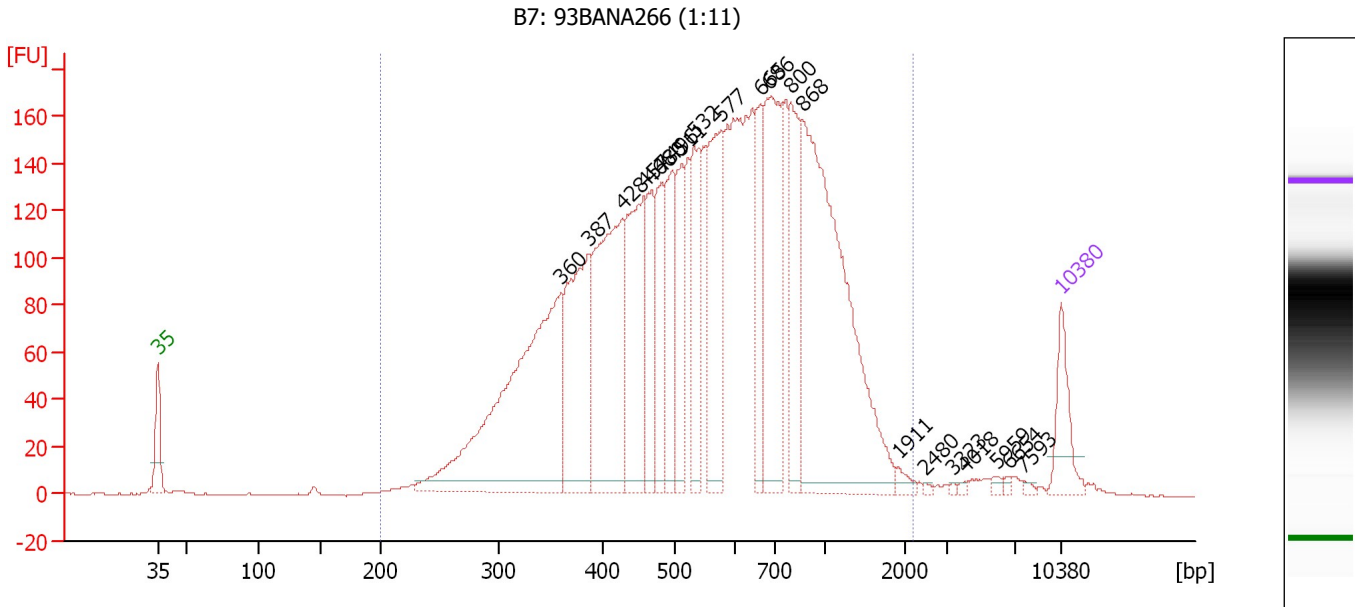
... Region table for sample 2 : **B6: 93BANA237 (1:12)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	626	2,464	7,784.7	23,362.9	 98	48.9	7,534.63

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : B7: 93BANA266 (1:11)**

Number of peaks found: 21                      Corr. Area 1: 4,496.4  
 Noise: 0.3

**Peak table for sample 3 : B7: 93BANA266 (1:11)**


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	360	809.38	3,409.5		74.24
3	387	371.29	1,455.1		76.39
4	428	487.89	1,728.4		79.03
5	457	318.03	1,054.4		80.69
6	466	144.87	470.6		81.23
7	480	157.07	495.5		82.01
8	496	192.93	589.6		82.89
9	511	151.19	448.6		83.62
10	532	187.09	533.1		84.60
11	577	289.20	759.2		86.70
12	665	147.57	336.1		89.73
13	686	334.29	738.1		90.37
14	800	190.40	360.6		92.08
15	868	791.86	1,382.0		92.96
16	1,911	14.01	11.1		100.39
17	2,480	3.27	2.0		102.49
18	3,323	2.78	1.3		104.59
19	4,018	3.74	1.4		105.52
20	5,959	6.52	1.7		108.11
21	6,654	4.90	1.1		109.04
22	7,593	4.75	0.9		110.12
23	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**

... Region table for sample 3 : **B7: 93BANA266 (1:11)**

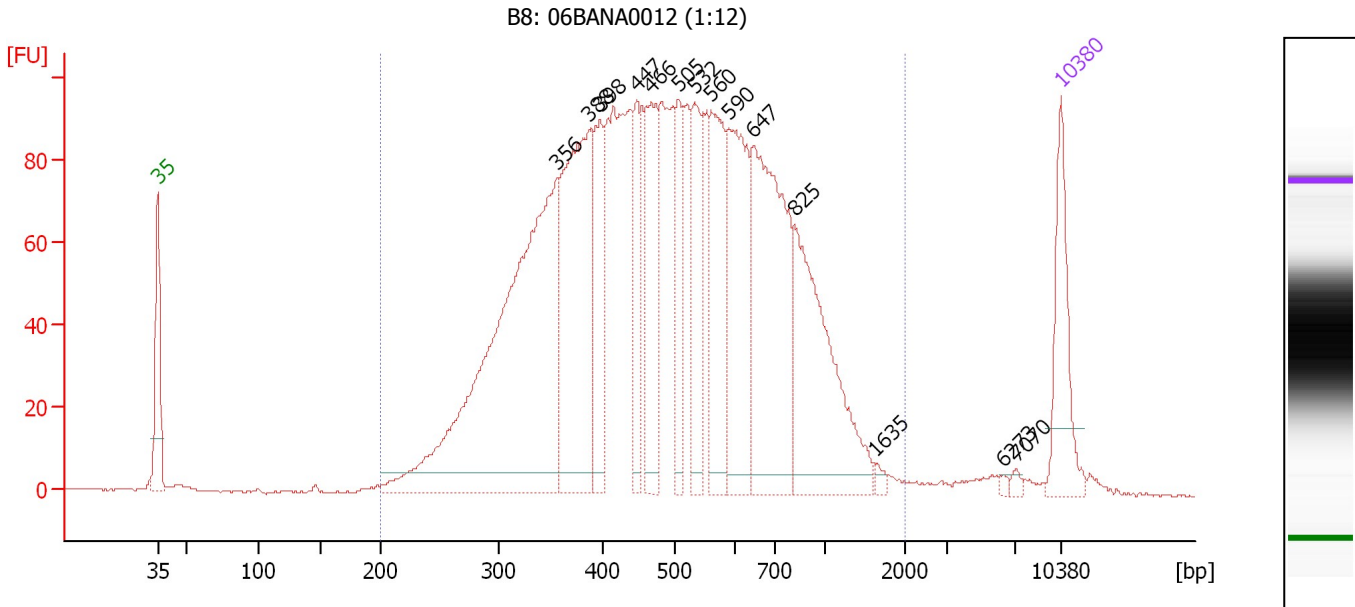
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	633	2,208	4,496.4	17,285.6	 97	47.8	5,684.30



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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : B8: 06BANA0012 (1:12)**

Number of peaks found: 14                      Corr. Area 1: 2,866.2  
 Noise: 0.3

**Peak table for sample 4 : B8: 06BANA0012 (1:12)**

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	356	668.29	2,840.6		73.98
3	388	315.71	1,234.3		76.46
4	398	114.71	436.6		77.30
5	447	83.55	283.1		80.13
6	466	127.00	412.5		81.23
7	505	80.19	240.6		83.36
8	532	105.38	300.2		84.60
9	560	142.05	384.5		85.89
10	590	179.03	460.0		87.28
11	647	291.60	683.3		89.17
12	825	227.53	418.0		92.40
13	1,635	5.13	4.8		98.65
14	6,273	2.37	0.6		108.53
15	7,070	4.20	0.9		109.57
16	10,380	75.00	10.9	Upper Marker	113.00

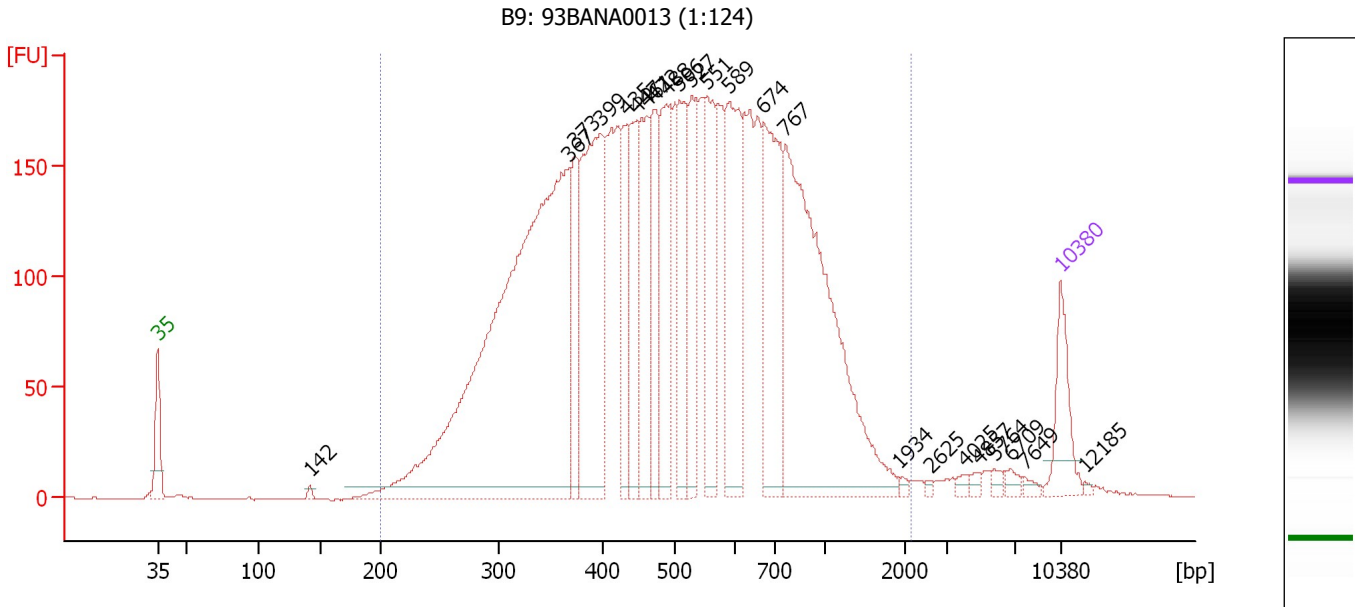
**Region table for sample 4 : B8: 06BANA0012 (1:12)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	534	1,989	2,866.2	10,402.9	98	43.5	3,033.75

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : B9: 93BANA0013 (1:124)**

Number of peaks found: 23                      Corr. Area 1: 5,685.4  
 Noise: 0.3


**Peak table for sample 5 : B9: 93BANA0013 (1:124)**

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	142	6.85	73.3		54.81
3	367	1,488.18	6,149.2		74.80
4	373	159.06	646.1		75.30
5	399	449.12	1,705.9		77.37
6	435	149.16	519.6		79.44
7	447	160.35	543.0		80.14
8	461	206.12	677.8		80.90
9	472	161.56	518.3		81.56
10	488	207.65	644.3		82.47
11	506	183.47	548.9		83.43
12	527	156.77	450.6		84.38
13	551	215.17	591.6		85.49
14	589	279.37	718.4		87.26
15	674	303.48	682.6		89.99
16	767	717.23	1,416.7		91.65
17	1,934	5.28	4.1		100.53
18	2,625	4.14	2.4		102.96
19	4,025	7.07	2.7		105.53
20	4,857	6.69	2.1		106.64
21	5,764	8.30	2.2		107.85
22	6,709	10.80	2.4		109.11
23	7,649	7.22	1.4		110.17
24	10,380	75.00	10.9	Upper Marker	113.00
25	12,185	0.00	0.0		114.87

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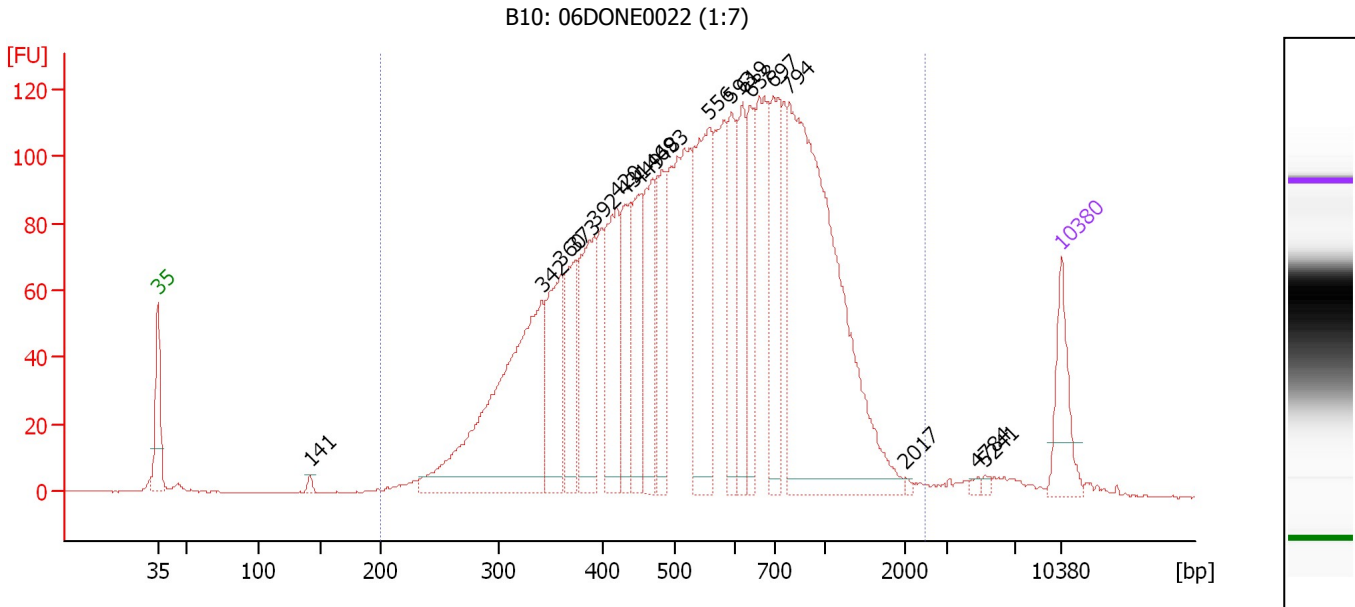
**Electropherogram Summary Continued ...****... Region table for sample 5 :      B9: 93BANA0013 (1:124)**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>Molarity [pmol/l]</b>	<b>Co % of lor Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/μl]</b>
200	553	2,136	5,685.4	19,999.8	 97	46.8	5,879.81

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



**Overall Results for sample 6 : B10: 06DONE0022 (1:7)**

Number of peaks found: 19                      Corr. Area 1: 3,185.1  
 Noise: 0.3

**Peak table for sample 6 : B10: 06DONE0022 (1:7)**

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	141	8.27	88.6		54.79
3	342	569.41	2,525.8		72.79
4	360	187.01	787.0		74.26
5	373	142.31	577.5		75.33
6	392	215.06	830.2		76.86
7	420	200.05	721.9		78.58
8	431	124.32	437.4		79.19
9	449	150.80	508.3		80.26
10	469	163.11	526.7		81.38
11	483	132.94	417.4		82.14
12	556	286.14	780.4		85.70
13	593	134.01	342.5		87.43
14	619	125.81	307.8		88.34
15	638	118.38	281.2		88.90
16	697	168.78	367.1		90.68
17	794	782.35	1,492.1		92.01
18	2,017	3.17	2.4		101.00
19	4,784	5.02	1.6		106.54
20	5,241	4.24	1.2		107.15
21	10,380	75.00	10.9	Upper Marker	113.00

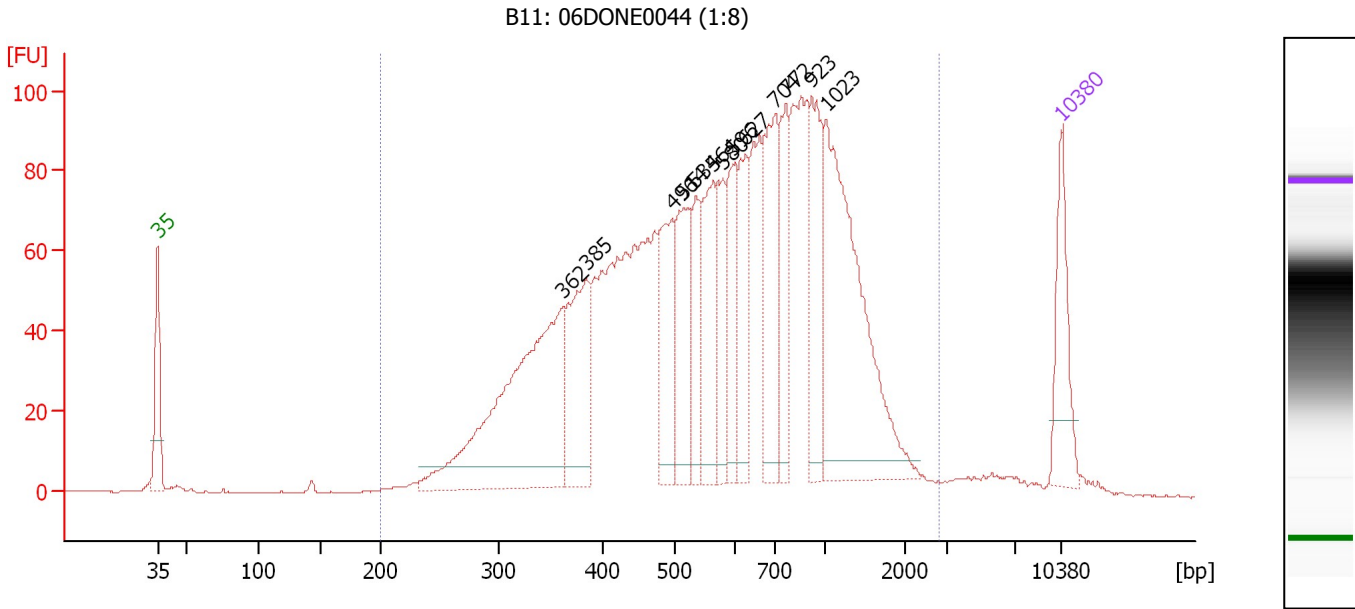
**Region table for sample 6 : B10: 06DONE0022 (1:7)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	616	2,465	3,185.1	13,933.1	98	47.3	4,497.98

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : B11: 06DONE0044 (1:8)**

Number of peaks found: 13                      Corr. Area 1: 2,498.8  
 Noise: 0.2

**Peak table for sample 7 : B11: 06DONE0044 (1:8)**

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	362	421.62	1,766.5		74.39
3	385	163.03	641.8		76.25
4	496	121.17	370.2		82.90
5	514	124.14	366.0		83.77
6	534	67.57	191.7		84.70
7	564	123.67	332.2		86.09
8	580	72.52	189.6		86.81
9	596	84.20	214.0		87.59
10	627	91.98	222.4		88.57
11	704	144.21	310.4		90.84
12	772	89.32	175.4		91.71
13	923	110.50	181.3		93.67
14	1,023	329.36	487.9		94.80
15	10,380	75.00	10.9	Upper Marker	113.00

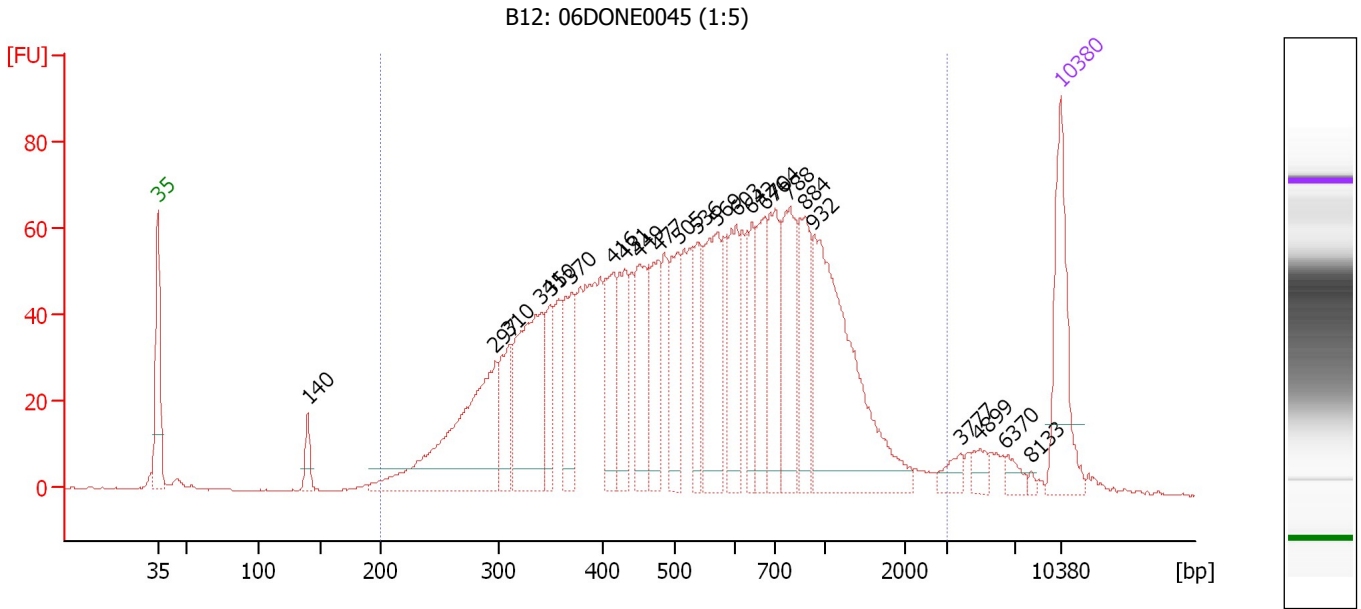
**Region table for sample 7 : B11: 06DONE0044 (1:8)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	691	2,816	2,498.8	8,581.7	98	53.5	2,919.05

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B12: 06DONE0045 (1:5)**

Number of peaks found: 24                      Corr. Area 1: 2,018.3  
 Noise: 0.2

**Peak table for sample 8 : B12: 06DONE0045 (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	140	22.32	242.3		54.62
3	297	224.57	1,145.7		69.19
4	310	54.62	266.8		70.28
5	341	159.29	707.4		72.76
6	350	47.71	206.8		73.43
7	370	74.40	304.4		75.08
8	416	72.23	263.4		78.34
9	431	64.76	227.7		79.21
10	449	84.82	286.1		80.25
11	477	69.25	220.2		81.80
12	505	69.76	209.4		83.35
13	536	50.38	142.4		84.79
14	569	109.30	290.8		86.34
15	603	70.58	177.4		87.84
16	642	49.27	116.3		89.03
17	676	66.20	148.3		90.06
18	704	83.56	179.8		90.84
19	788	94.88	182.4		91.92
20	884	69.89	119.8		93.16
21	932	232.51	378.0		93.78
22	3,777	11.93	4.8		105.20
23	4,899	10.71	3.3		106.70
24	6,370	9.61	2.3		108.66
25	8,133	2.25	0.4		110.68

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : B12: 06DONE0045 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

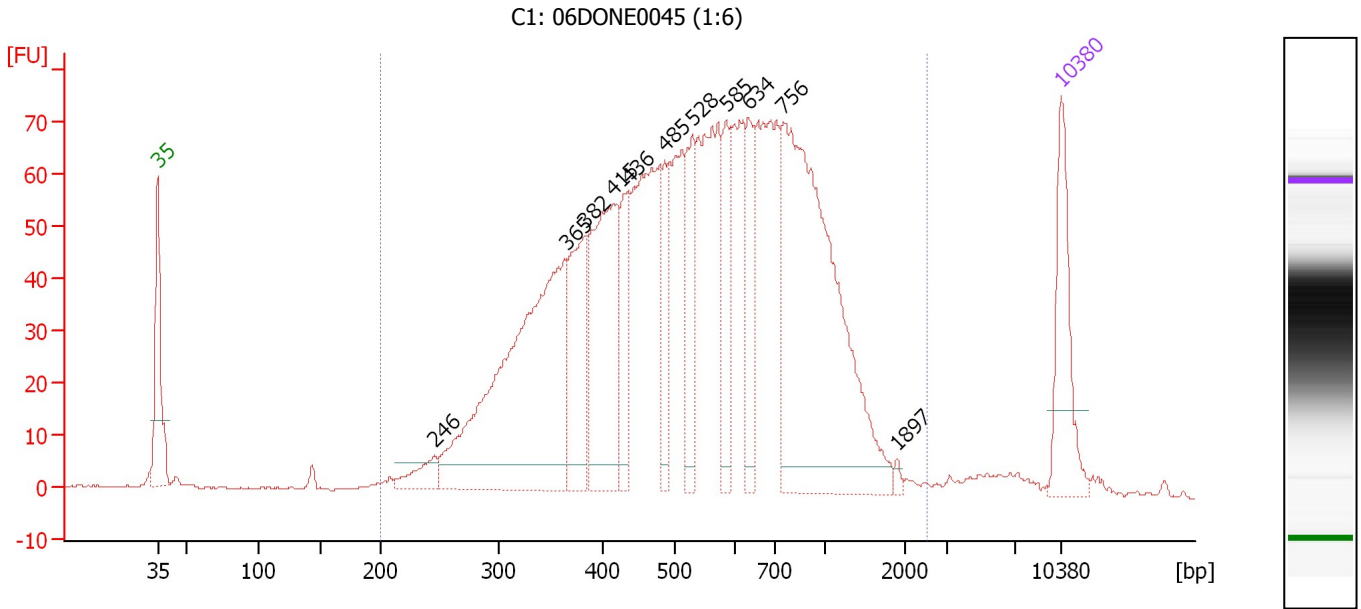
#### Region table for sample 8 : B12: 06DONE0045 (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	629	2,994	2,018.3	7,342.0	95	59.2	2,238.77

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C1: 06DONE0045 (1:6)**

Number of peaks found: 11                      Corr. Area 1: 2,016.3  
 Noise: 0.2

**Peak table for sample 9 : C1: 06DONE0045 (1:6)**

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	246	31.76	195.8		64.49
3	365	468.35	1,941.9		74.70
4	382	134.52	533.0		76.05
5	415	225.18	822.8		78.29
6	436	70.81	246.2		79.48
7	485	70.35	219.6		82.29
8	528	87.20	250.2		84.43
9	585	68.45	177.2		87.08
10	634	68.03	162.5		88.80
11	756	475.44	953.2		91.51
12	1,897	4.21	3.4		100.30
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 9 : C1: 06DONE0045 (1:6)**

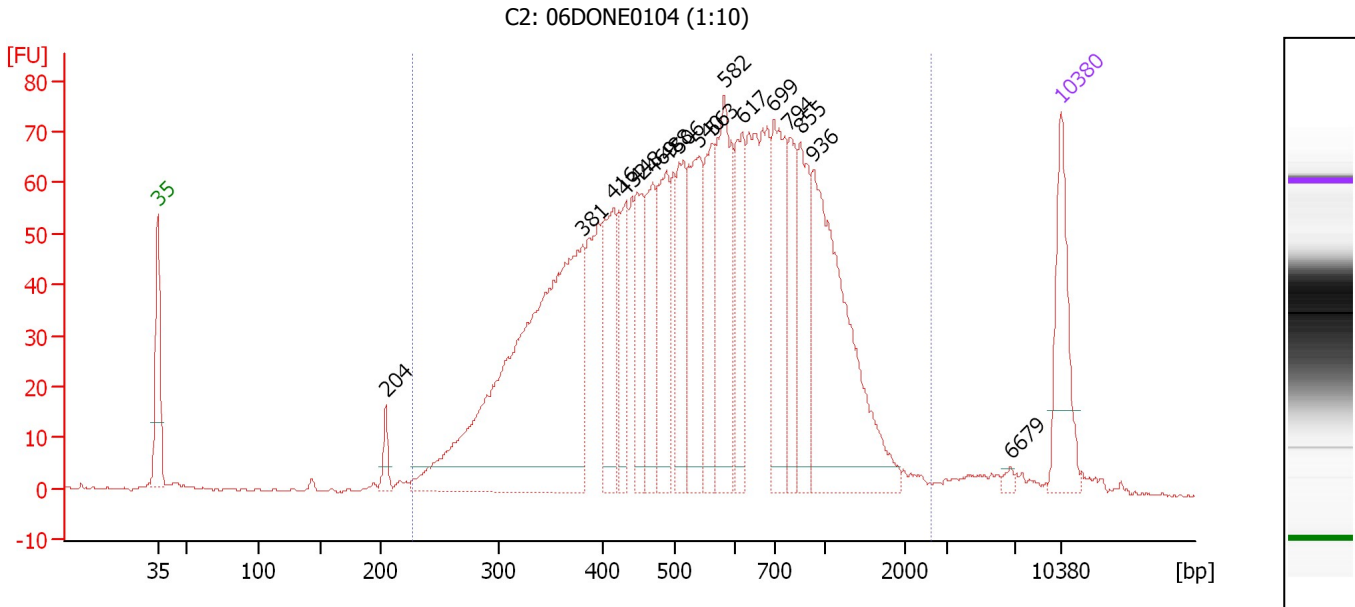
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	602	2,513	2,016.3	8,401.4	98	47.9	2,645.62



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : C2: 06DONE0104 (1:10)**

Number of peaks found: 17                      Corr. Area 1: 2,015.4  
 Noise: 0.3

**Peak table for sample 10 : C2: 06DONE0104 (1:10)**

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	204	21.47	159.2		60.70
3	381	631.19	2,510.7		75.93
4	416	124.72	454.7		78.34
5	432	77.00	269.9		79.28
6	448	79.69	269.6		80.17
7	469	97.12	313.7		81.38
8	488	110.48	343.3		82.42
9	506	100.86	301.9		83.42
10	540	131.59	369.1		84.99
11	563	91.14	245.4		86.04
12	582	154.03	401.0		86.93
13	617	89.57	219.8		88.29
14	699	144.11	312.5		90.75
15	794	69.05	131.7		92.01
16	855	97.68	173.1		92.79
17	936	288.23	466.4		93.84
18	6,679	4.26	1.0		109.07
19	10,380	75.00	10.9	Upper Marker	113.00

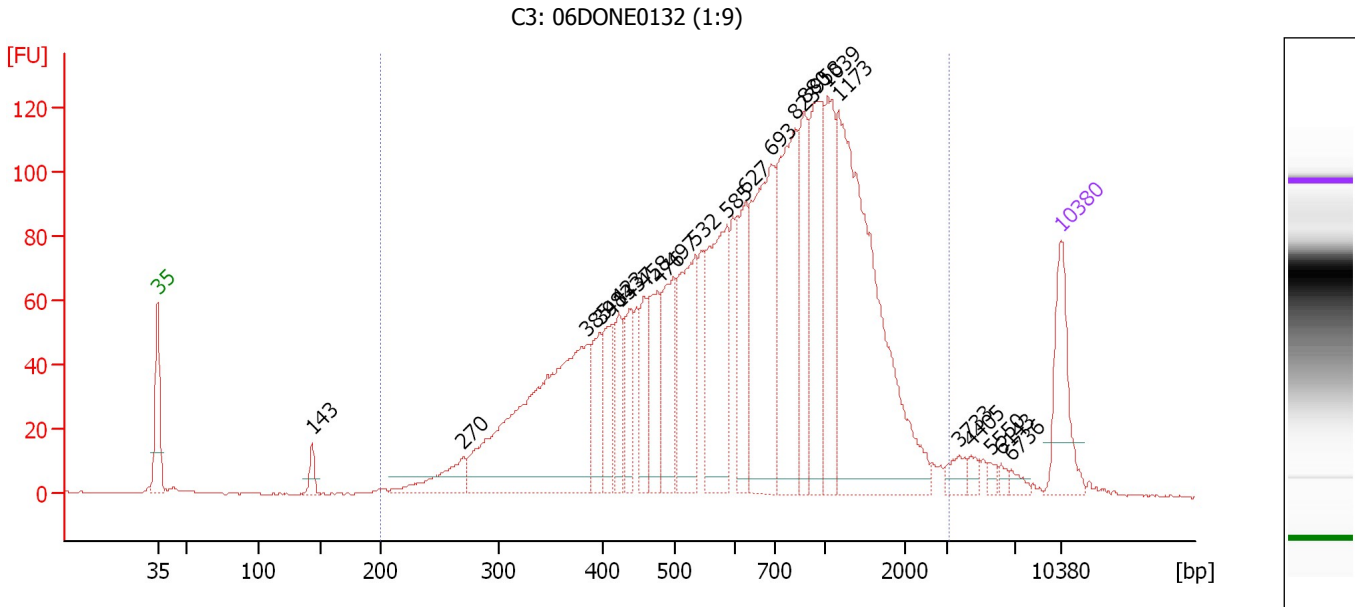
**Region table for sample 10 : C2: 06DONE0104 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
227	619	2,624	2,015.4	8,981.0	97	50.0	2,876.52

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : C3: 06DONE0132 (1:9)**

Number of peaks found: 24                      Corr. Area 1: 2,752.0  
 Noise: 0.2

**Peak table for sample 11 : C3: 06DONE0132 (1:9)**

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	143	22.11	233.9		54.97
3	270	62.70	352.3		66.69
4	385	479.55	1,885.6		76.29
5	398	71.72	273.1		77.29
6	413	75.42	276.8		78.18
7	423	60.18	215.5		78.76
8	437	61.68	213.9		79.56
9	458	64.78	214.1		80.77
10	476	91.22	290.3		81.77
11	497	115.38	351.4		82.98
12	532	161.68	460.3		84.62
13	585	196.03	508.1		87.05
14	627	104.47	252.5		88.58
15	693	276.34	604.0		90.58
16	823	225.46	415.1		92.37
17	880	103.13	177.5		93.11
18	958	153.26	242.5		94.12
19	1,039	127.64	186.1		94.91
20	1,173	464.23	599.5		95.75
21	3,733	17.01	6.9		105.14
22	4,405	9.63	3.3		106.04
23	5,550	6.16	1.7		107.57
24	6,143	6.20	1.5		108.36
25	6,736	7.59	1.7		109.15

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : C3: 06DONE0132 (1:9)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 11 : C3: 06DONE0132 (1:9)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	796	3,133	2,752.0	8,754.4	96	57.9	3,218.61

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...er\2015-06-18\2015-06-18\_003\_YoosookLeeDNALibraries3of4.xad

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**Gel Image**