

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2015-06-18\2015-06-18_001_YoosookLeeDNALibraries.xad

Created: 6/18/2015 10:28:32 AM
Modified: 6/18/2015 11:41:14 AM

Electrophoresis File Run Summary

Instrument Information:

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

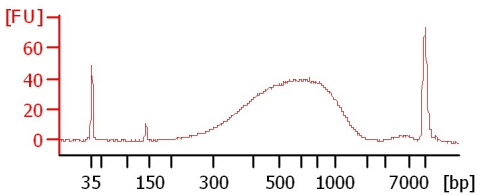
Assay Information:

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

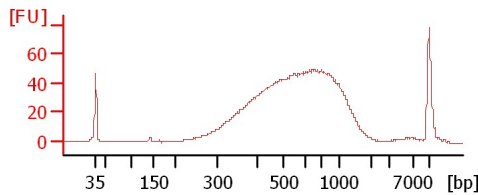
Chip Information:

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

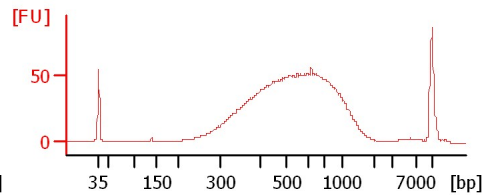
D9: 2011BOU003 (1:6)



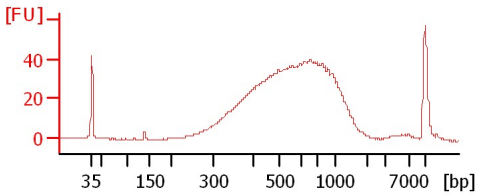
D10: 2011BOU015 (1:9)



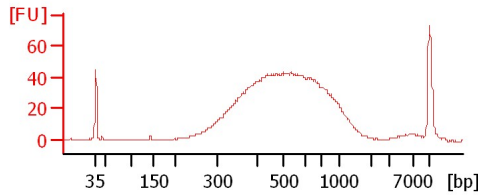
D11: 2011BOU019 (1:9)



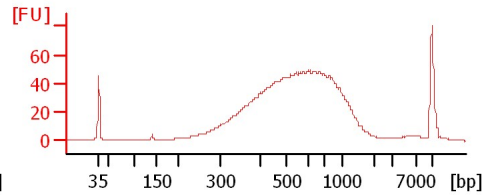
D12: 2011BOU029 (1:11)



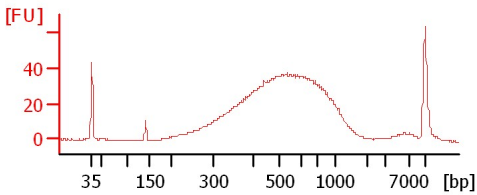
A1: 2011BOU030 (1:14)



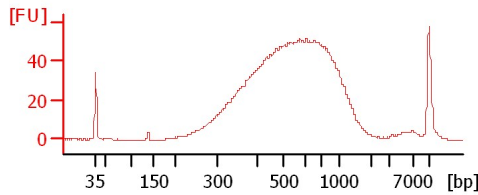
A2: 2011BOU042 (1:11)



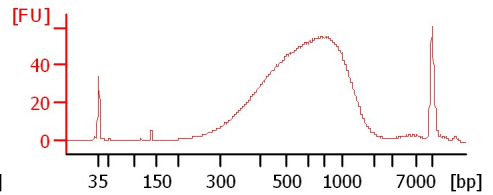
A3: 2011BOE005 (1:11)



A4: 2011BOE007 (1:10)



A5: 2011BOE020 (1:8)



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
D9: 2011BOU003 (1:6)		<input type="checkbox"/>	✓			
D10: 2011BOU015 (1:9)		<input type="checkbox"/>	✓			
D11: 2011BOU019 (1:9)		<input type="checkbox"/>	✓			
D12: 2011BOU029 (1:11)		<input type="checkbox"/>	✓			
A1: 2011BOU030 (1:14)		<input type="checkbox"/>	✓			
A2: 2011BOU042 (1:11)		<input type="checkbox"/>	✓			
A3: 2011BOE005 (1:11)		<input type="checkbox"/>	✓			
A4: 2011BOE007 (1:10)		<input type="checkbox"/>	✓			
A5: 2011BOE020 (1:8)		<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

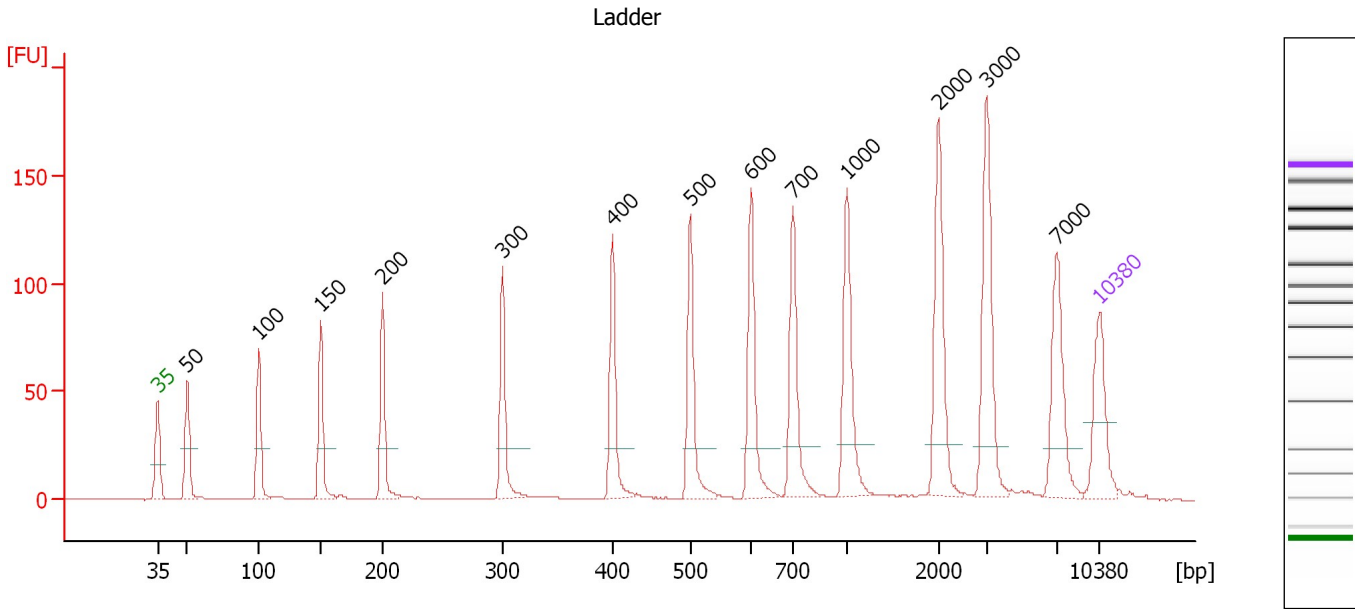
Ladder

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

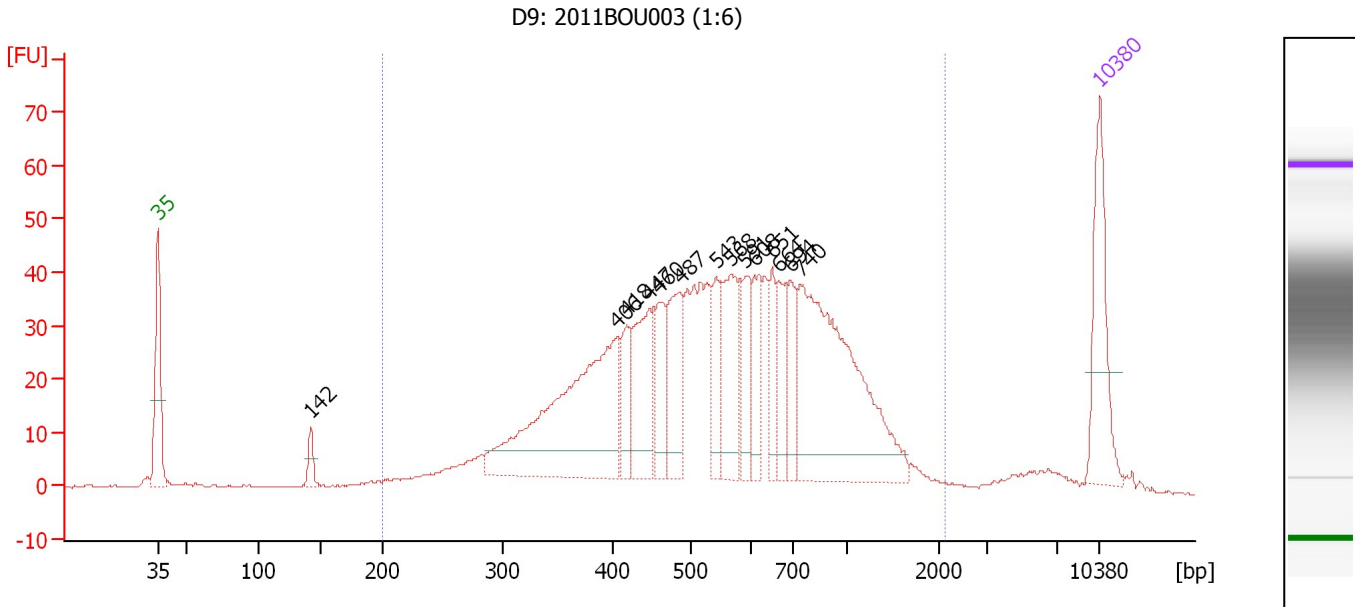
Peak table for Ladder

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	45.19
3	100	150.00	2,272.7	Ladder Peak	50.50
4	150	150.00	1,515.2	Ladder Peak	55.12
5	200	150.00	1,136.4	Ladder Peak	59.69
6	300	150.00	757.6	Ladder Peak	68.64
7	400	150.00	568.2	Ladder Peak	76.83
8	500	150.00	454.5	Ladder Peak	82.55
9	600	150.00	378.8	Ladder Peak	87.07
10	700	150.00	324.7	Ladder Peak	90.20
11	1,000	150.00	227.3	Ladder Peak	94.22
12	2,000	150.00	113.6	Ladder Peak	100.98
13	3,000	150.00	75.8	Ladder Peak	104.55
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 3 : D9: 2011BOU003 (1:6)

Number of peaks found: 14 Corr. Area 1: 1,073.9
 Noise: 0.2

Peak table for sample 3 : D9: 2011BOU003 (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	142	19.13	204.4		54.37
3	406	284.74	1,063.9		77.15
4	418	45.69	165.6		77.87
5	447	96.89	328.3		79.52
6	460	58.76	193.6		80.25
7	487	80.33	250.0		81.80
8	543	47.35	132.2		84.48
9	568	86.12	229.7		85.62
10	591	51.52	132.1		86.65
11	608	44.75	111.5		87.32
12	651	41.83	97.3		88.67
13	664	40.73	92.9		89.08
14	694	40.62	88.7		90.01
15	740	294.27	602.5		90.73
16	10,380	75.00	10.9	Upper Marker	113.00

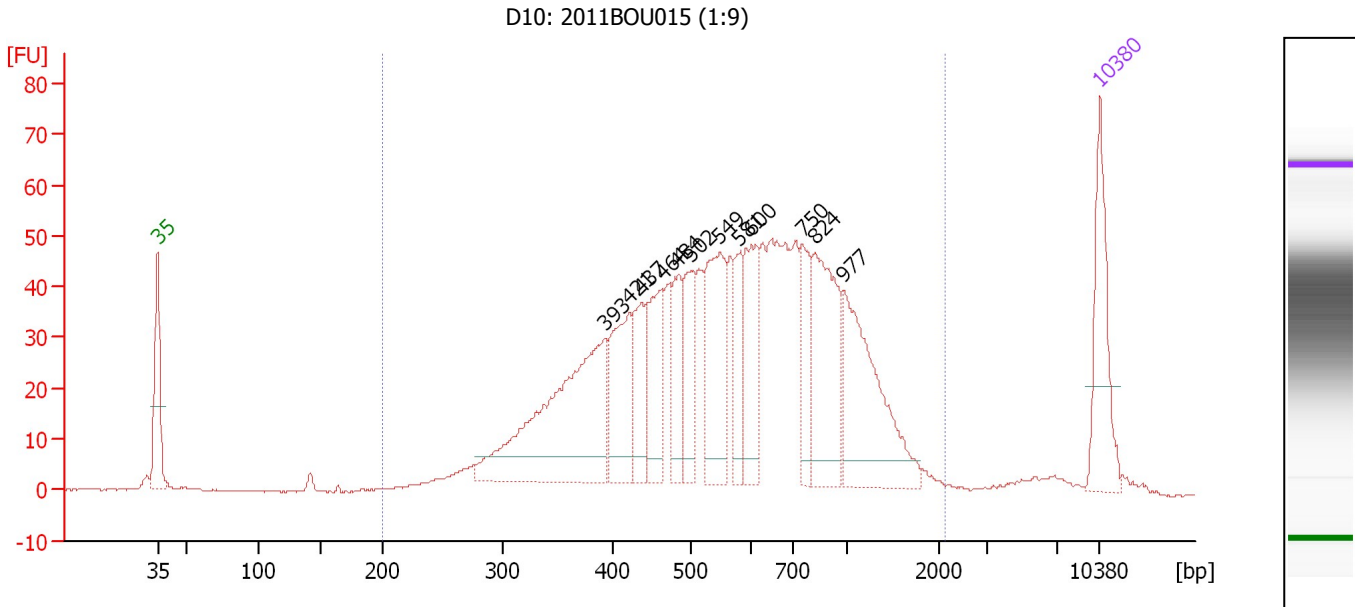
Region table for sample 3 : D9: 2011BOU003 (1:6)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	618	2,149	1,073.9	5,000.3	94	47.1	1,621.38

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Electropherogram Summary Continued ...



Overall Results for sample 4 : D10: 2011BOU015 (1:9)

Number of peaks found: 12 Corr. Area 1: 1,281.0
 Noise: 0.2

Peak table for sample 4 : D10: 2011BOU015 (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	393	281.09	1,083.6		76.26
3	421	104.71	376.5		78.05
4	437	64.57	223.9		78.95
5	464	81.46	266.1		80.48
6	484	60.97	190.8		81.64
7	502	61.91	186.9		82.64
8	549	123.15	340.1		84.75
9	581	48.78	127.1		86.22
10	600	86.43	218.3		87.07
11	750	55.19	111.6		90.86
12	824	132.68	243.9		91.86
13	977	154.13	238.9		93.92
14	10,380	75.00	10.9	Upper Marker	113.00

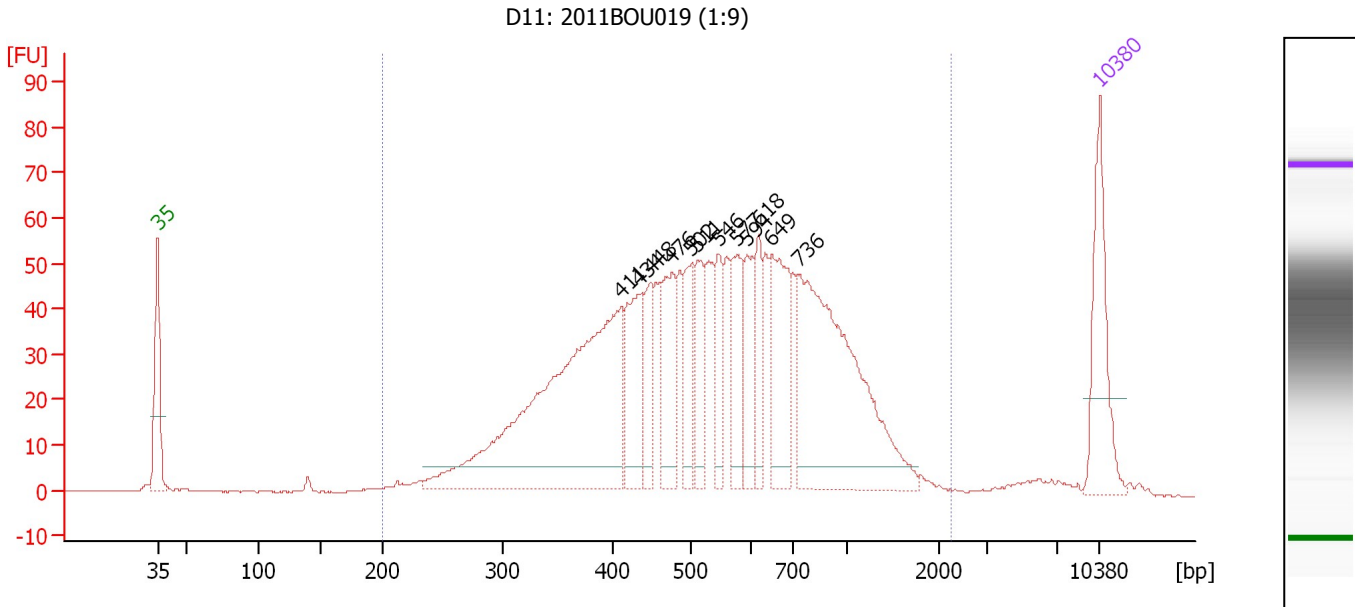
Region table for sample 4 : D10: 2011BOU015 (1:9)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	642	2,143	1,281.0	5,401.1	96	47.2	1,817.88

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Electropherogram Summary Continued ...



Overall Results for sample 5 : D11: 2011BOU019 (1:9)

Number of peaks found: 12 Corr. Area 1: 1,423.9
 Noise: 0.1

Peak table for sample 5 : D11: 2011BOU019 (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	411	443.00	1,634.6		77.44
3	434	88.87	310.3		78.77
4	448	52.48	177.5		79.58
5	476	84.47	268.9		81.18
6	502	51.46	155.5		82.62
7	511	59.72	177.1		83.05
8	546	49.66	137.7		84.65
9	577	59.11	155.2		86.04
10	594	54.15	138.2		86.78
11	618	47.98	117.6		87.64
12	649	101.73	237.5		88.60
13	736	304.15	626.0		90.68
14	10,380	75.00	10.9	Upper Marker	113.00

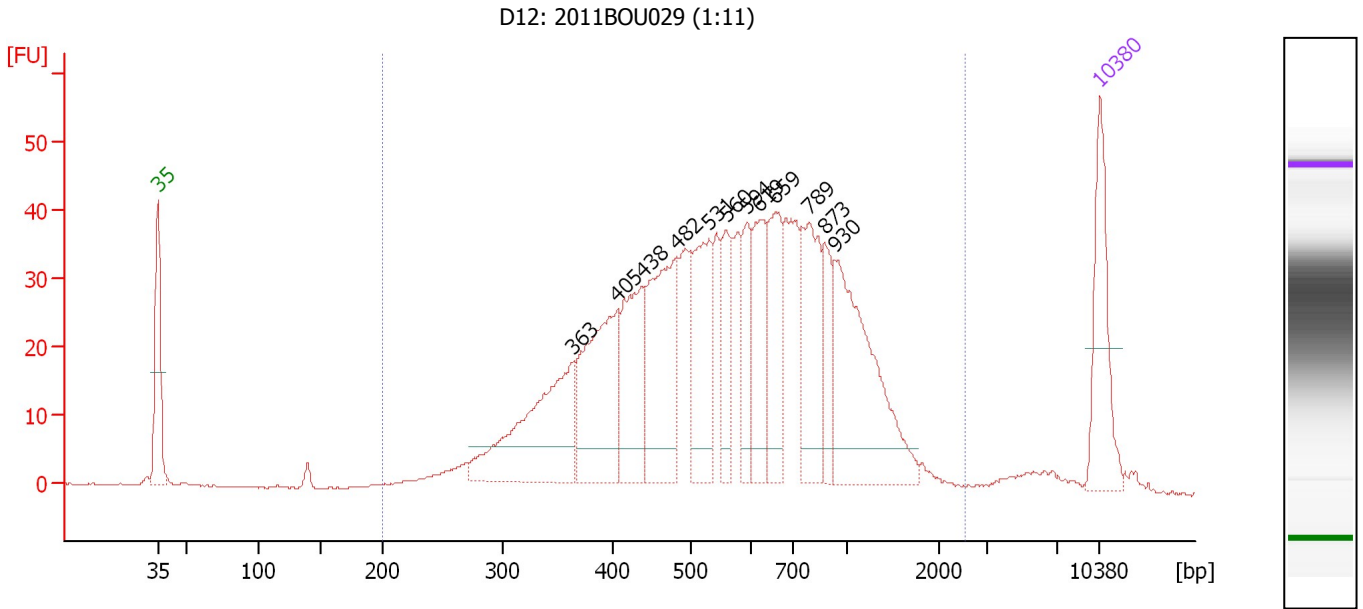
Region table for sample 5 : D11: 2011BOU019 (1:9)

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	2,261	1,423.9	5,509.6	97	46.7	1,758.05

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Electropherogram Summary Continued ...



Overall Results for sample 6 : D12: 2011BOU029 (1:11)

Number of peaks found: 12 Corr. Area 1: 1,014.9
 Noise: 0.1

Peak table for sample 6 : D12: 2011BOU029 (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	363	188.94	788.0		73.82
3	405	164.41	615.3		77.11
4	438	118.51	410.1		79.00
5	482	162.69	511.2		81.53
6	531	113.90	324.9		83.95
7	560	55.31	149.7		85.25
8	594	54.17	138.1		86.81
9	619	82.46	201.7		87.67
10	659	80.54	185.2		88.91
11	789	108.25	207.9		91.39
12	873	47.81	82.9		92.52
13	930	186.33	303.7		93.28
14	10,380	75.00	10.9	Upper Marker	113.00

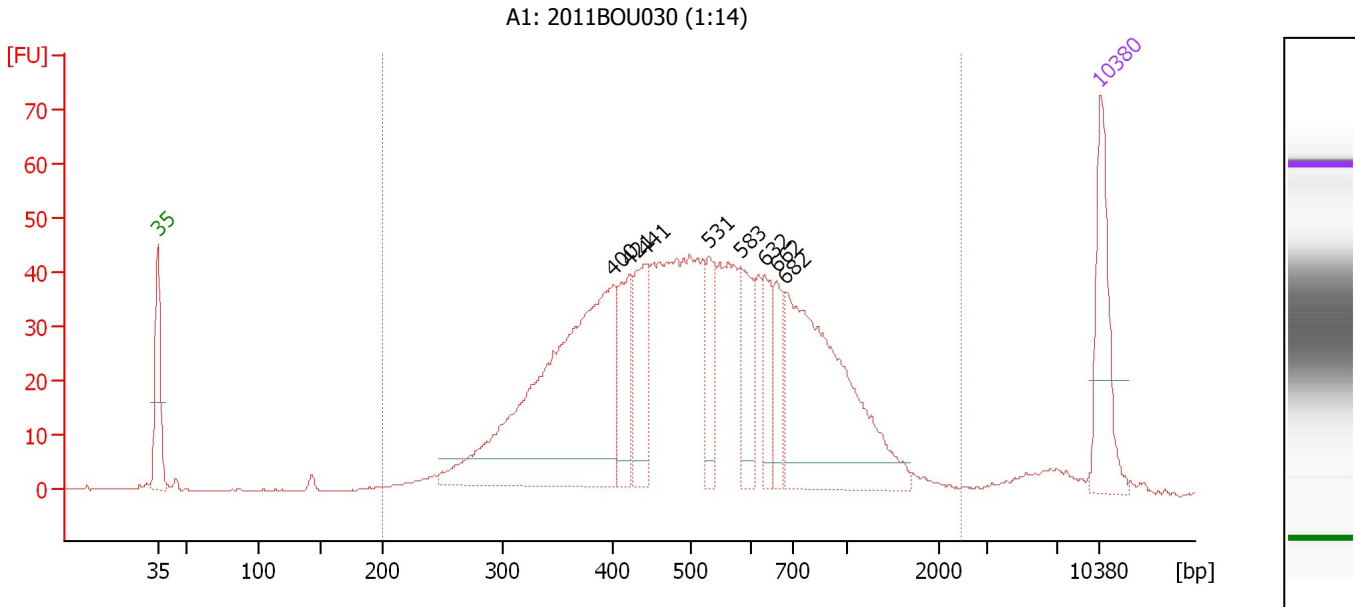
Region table for sample 6 : D12: 2011BOU029 (1:11)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	644	2,543	1,014.9	5,344.8	97	48.1	1,802.12

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Electropherogram Summary Continued ...



Overall Results for sample 7 : A1: 2011BOU030 (1:14)

Number of peaks found: 8 Corr. Area 1: 1,187.9
 Noise: 0.1

Peak table for sample 7 : A1: 2011BOU030 (1:14)

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	400	453.09	1,714.8		76.85
3	421	74.30	267.2		78.05
4	441	90.06	309.1		79.20
5	531	62.12	177.1		83.96
6	583	64.68	168.0		86.31
7	632	42.21	101.2		88.06
8	662	41.01	93.9		88.99
9	682	296.35	657.9		89.65
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : A1: 2011BOU030 (1:14)

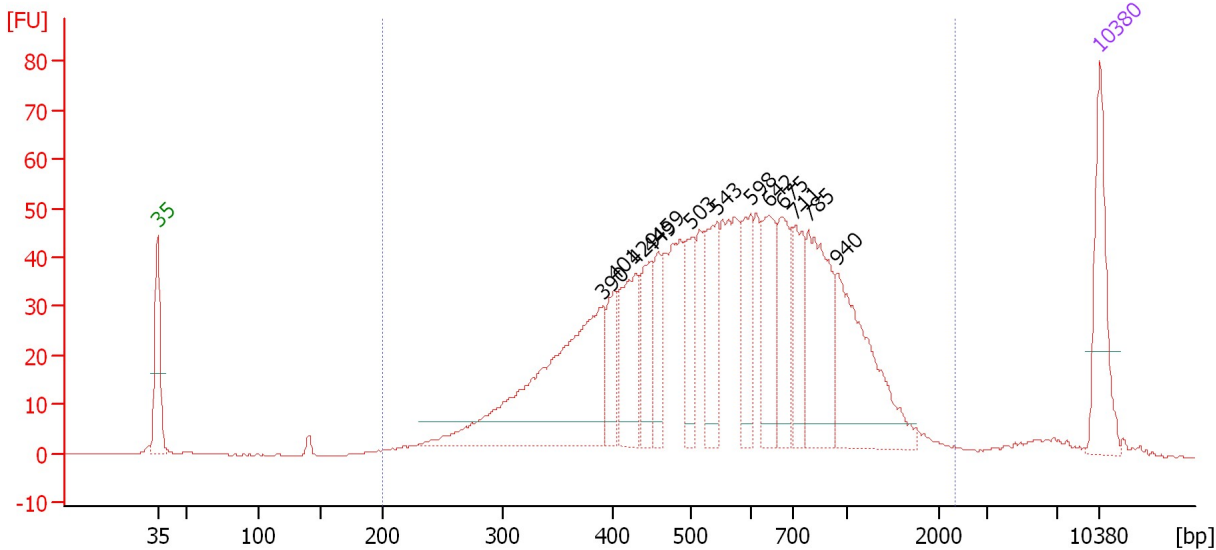
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	575	2,466	1,187.9	5,652.3	96	48.1	1,742.19

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Electropherogram Summary Continued ...

A2: 2011BOU042 (1:11)



Overall Results for sample 8 : A2: 2011BOU042 (1:11)

Number of peaks found: 13 Corr. Area 1: 1,270.3
 Noise: 0.1

Peak table for sample 8 : A2: 2011BOU042 (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	390	321.17	1,247.3		76.03
3	401	52.75	199.2		76.90
4	429	99.95	353.0		78.49
5	449	65.37	220.5		79.65
6	459	52.42	173.1		80.19
7	503	59.69	180.0		82.66
8	543	84.79	236.8		84.47
9	598	61.29	155.2		87.00
10	642	85.70	202.4		88.37
11	675	72.91	163.7		89.41
12	711	69.80	148.8		90.34
13	785	134.79	260.3		91.33
14	940	155.73	251.0		93.42
15	10,380	75.00	10.9	Upper Marker	113.00

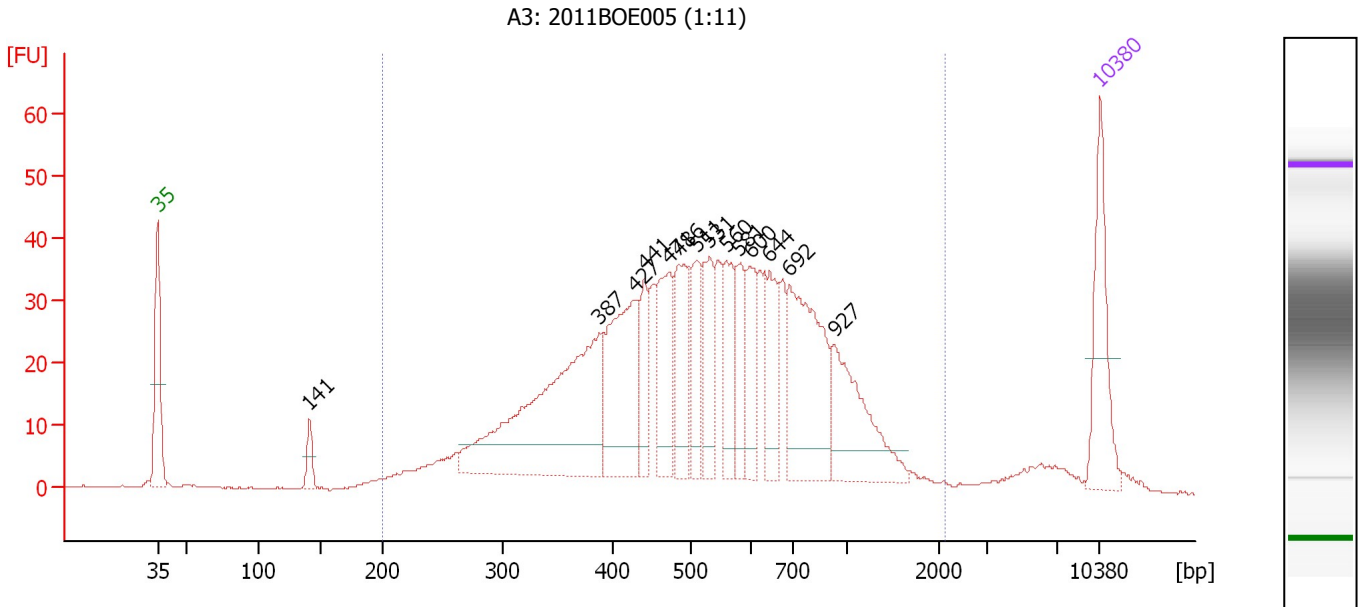
Region table for sample 8 : A2: 2011BOU042 (1:11)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	624	2,332	1,270.3	5,818.2	96	48.3	1,902.65

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Electropherogram Summary Continued ...



Overall Results for sample 9 : A3: 2011BOE005 (1:11)

Number of peaks found: 14 Corr. Area 1: 980.8
 Noise: 0.2

Peak table for sample 9 : A3: 2011BOE005 (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	141	23.27	250.2		54.28
3	387	327.65	1,281.5		75.80
4	427	160.67	569.9		78.39
5	441	50.78	174.6		79.16
6	471	94.01	302.1		80.92
7	486	89.15	278.0		81.74
8	511	59.06	175.0		83.06
9	531	66.32	189.3		83.94
10	560	66.55	180.0		85.26
11	581	49.17	128.3		86.20
12	600	51.08	128.9		87.08
13	644	59.54	140.0		88.46
14	692	171.85	376.4		89.94
15	927	113.24	185.1		93.24
16	10,380	75.00	10.9	Upper Marker	113.00

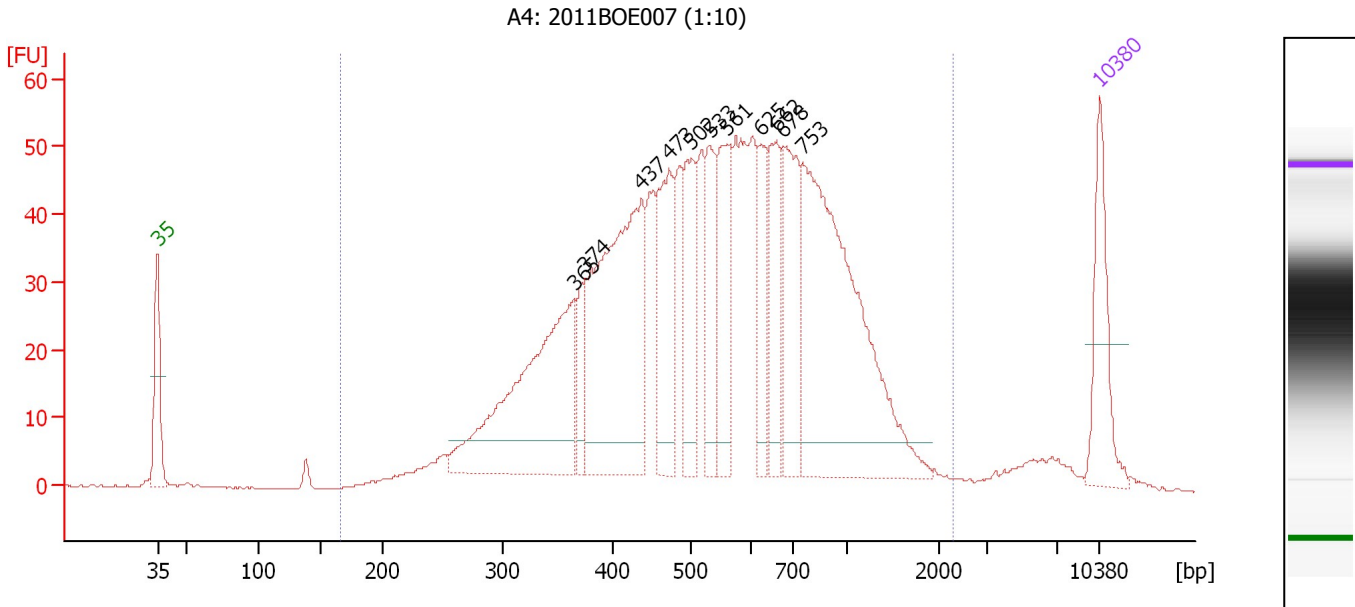
Region table for sample 9 : A3: 2011BOE005 (1:11)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	579	2,125	980.8	5,990.5	95	46.2	1,840.54

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Electropherogram Summary Continued ...



Overall Results for sample 10 : A4: 2011BOE007 (1:10)

Number of peaks found: 11 Corr. Area 1: 1,370.3
 Noise: 0.1

Peak table for sample 10 : A4: 2011BOE007 (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	365	332.55	1,380.7		73.96
3	374	51.90	210.1		74.73
4	437	370.81	1,285.9		78.94
5	473	130.24	417.4		80.99
6	502	106.07	319.9		82.65
7	533	93.29	265.2		84.04
8	561	102.04	275.5		85.31
9	625	70.10	169.9		87.86
10	662	97.96	224.1		89.02
11	678	132.56	296.1		89.52
12	753	429.16	863.9		90.90
13	10,380	75.00	10.9	Upper Marker	113.00

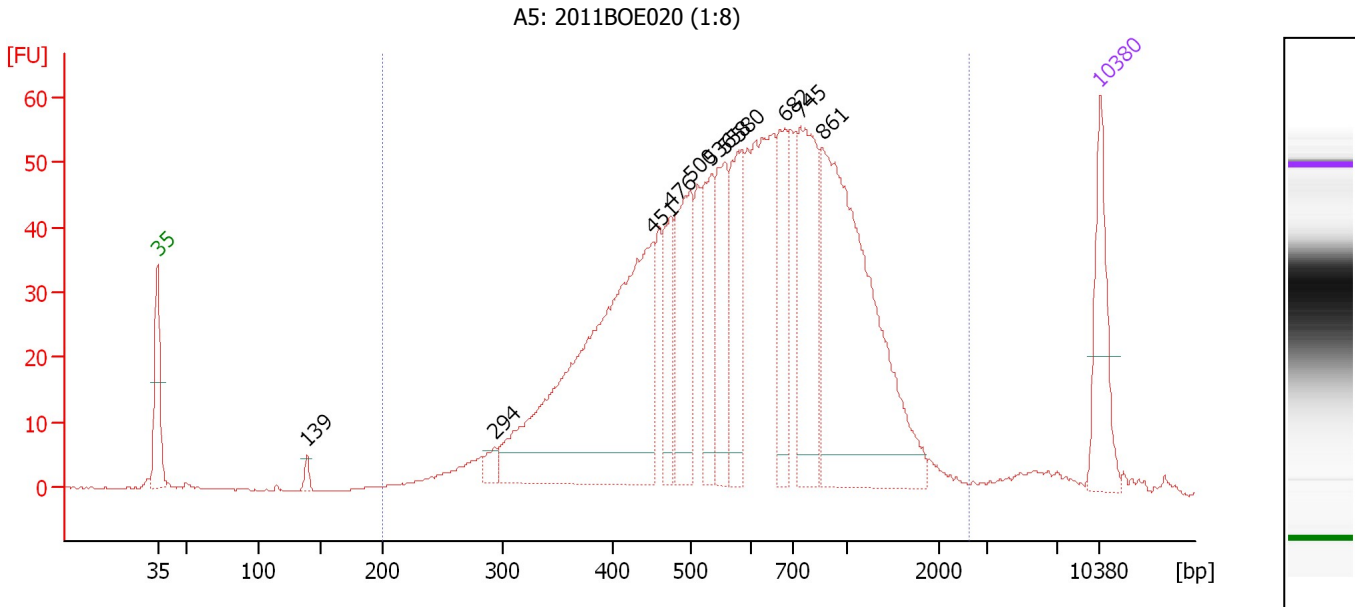
Region table for sample 10 : A4: 2011BOE007 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
167	610	2,312	1,370.3	8,154.4	97	47.8	2,608.73

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Electropherogram Summary Continued ...



Overall Results for sample 11 : A5: 2011BOE020 (1:8)

Number of peaks found: 11 Corr. Area 1: 1,306.3
 Noise: 0.1

Peak table for sample 11 : A5: 2011BOE020 (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	139	9.66	105.3		54.10
3	294	15.85	81.7		68.10
4	451	549.33	1,844.7		79.76
5	476	73.44	234.0		81.15
6	500	138.60	420.0		82.55
7	536	90.83	256.9		84.16
8	558	108.66	295.0		85.17
9	580	103.15	269.4		86.17
10	682	109.47	243.2		89.63
11	745	176.44	358.8		90.80
12	861	419.88	738.5		92.36
13	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : A5: 2011BOE020 (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	678	2,646	1,306.3	6,880.6	97	48.9	2,424.82

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2015-06-18\2015-06-18_001_YoosookLeeDNALibraries.xad

Created: 6/18/2015 10:28:32 AM
Modified: 6/18/2015 11:41:14 AM

Gel Image