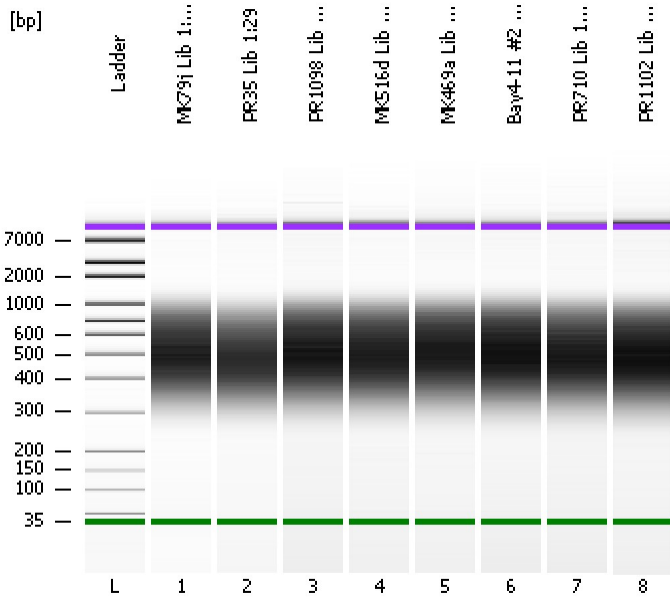


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
Modified: 2/27/2014 1:59:58 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

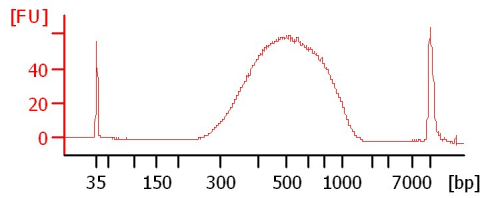
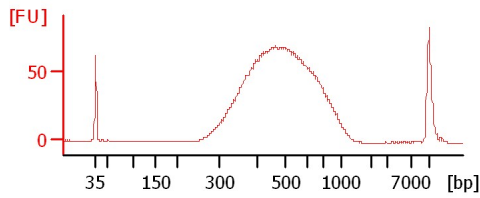
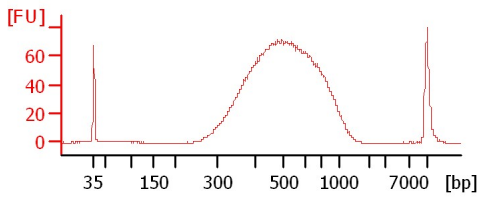
Chip Information:

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

**MK79j Lib 1:34**

**PR35 Lib 1:29**

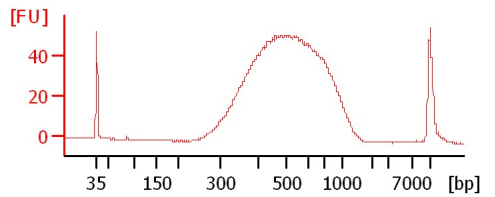
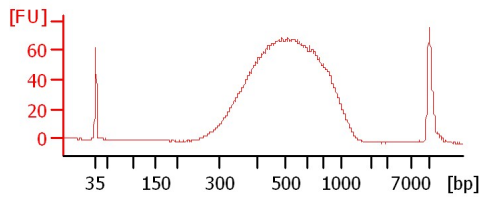
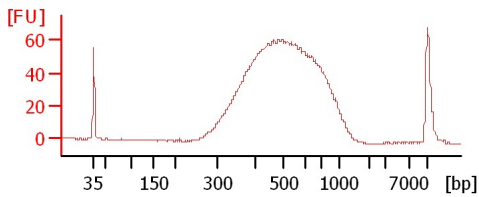
**PR1098 Lib 1:33**



**MK516d Lib 1:33**

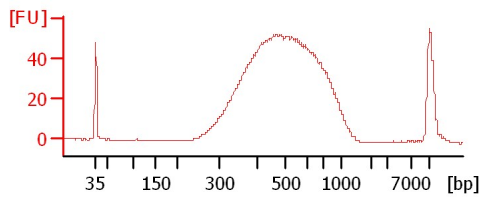
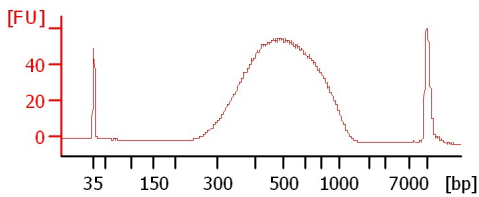
**MK469a Lib 1:28**

**Bay4-11 #2 Lib 1:35**



**PR710 Lib 1:34**

**PR1102 Lib 1:34**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
Modified: 2/27/2014 1:59:58 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MK79j Lib 1:34		<input type="checkbox"/>	✓			
PR35 Lib 1:29		<input type="checkbox"/>	✓			
PR1098 Lib 1:33		<input type="checkbox"/>	✓			
MK516d Lib 1:33		<input type="checkbox"/>	✓			
MK469a Lib 1:28		<input type="checkbox"/>	✓			
Bay4-11 #2 Lib 1:35		<input type="checkbox"/>	✓			
PR710 Lib 1:34		<input type="checkbox"/>	✓			
PR1102 Lib 1:34		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
Modified: 2/27/2014 1:59:58 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ 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

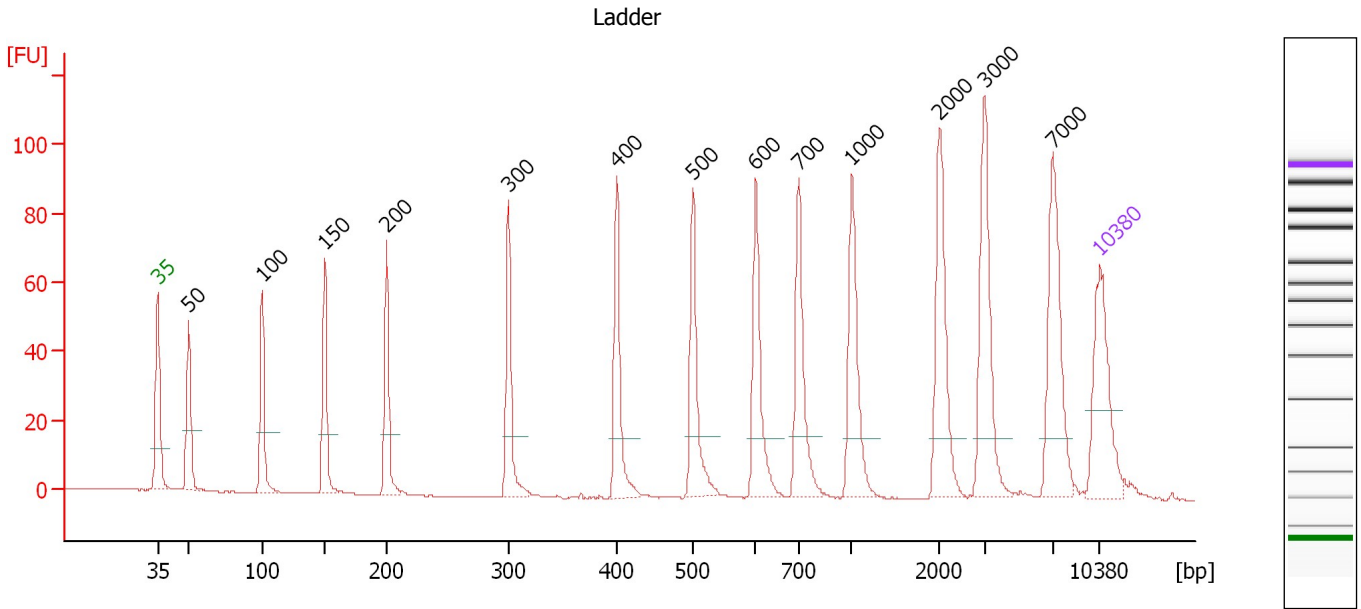
### Ladder

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:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

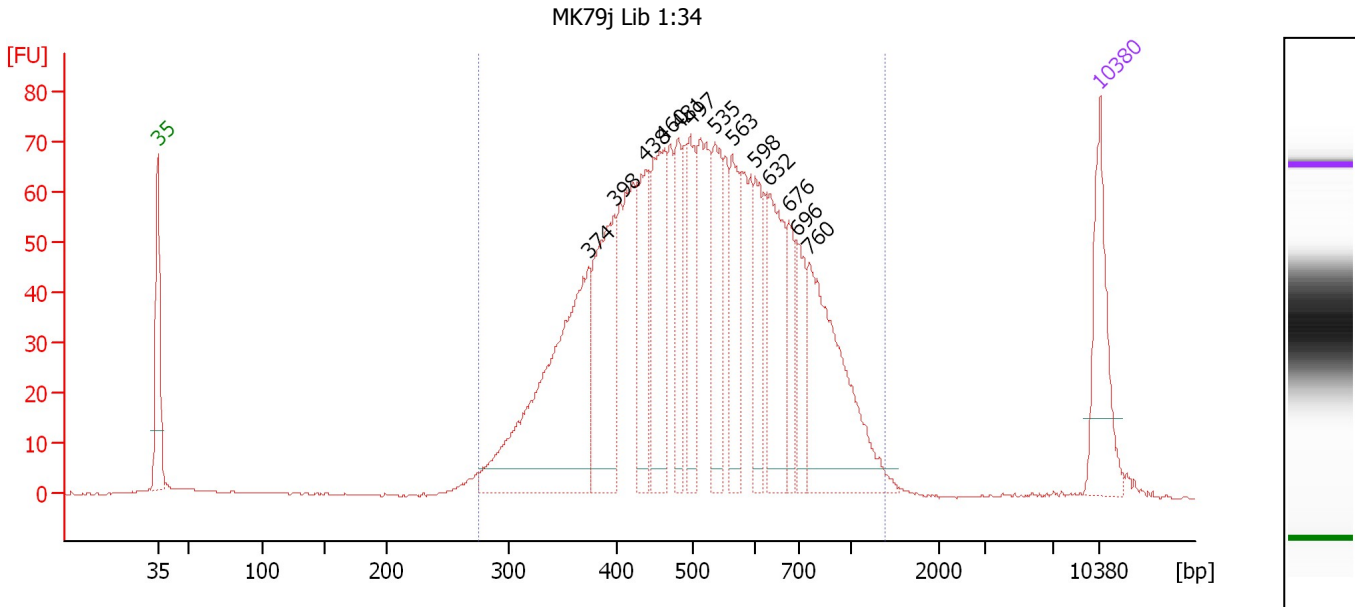
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.32	50	150.00	4,545.5	Ladder Peak
3	50.75	100	150.00	2,272.7	Ladder Peak
4	55.43	150	150.00	1,515.2	Ladder Peak
5	60.03	200	150.00	1,136.4	Ladder Peak
6	69.09	300	150.00	757.6	Ladder Peak
7	77.10	400	150.00	568.2	Ladder Peak
8	82.75	500	150.00	454.5	Ladder Peak
9	87.43	600	150.00	378.8	Ladder Peak
10	90.63	700	150.00	324.7	Ladder Peak
11	94.57	1,000	150.00	227.3	Ladder Peak
12	101.09	2,000	150.00	113.6	Ladder Peak
13	104.42	3,000	150.00	75.8	Ladder Peak
14	109.45	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MK79j Lib 1:34**

Number of peaks found: 13      Corr. Area 1: 1,681.4  
 Noise: 0.2

**Peak table for sample 1 : MK79j Lib 1:34**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.00	374	343.88	1,394.1	
3	76.94	398	168.38	641.0	
4	79.24	438	101.21	350.3	
5	80.52	460	140.67	462.9	
6	81.66	481	71.56	225.5	
7	82.59	497	81.14	247.3	
8	84.40	535	89.49	253.3	
9	85.68	563	81.69	220.0	
10	87.36	598	61.46	155.6	
11	88.46	632	113.08	271.1	
12	89.87	676	52.68	118.0	
13	90.49	696	54.26	118.2	
14	91.42	760	197.40	393.6	
15	113.00	10,380	75.00	10.9	Upper Marker

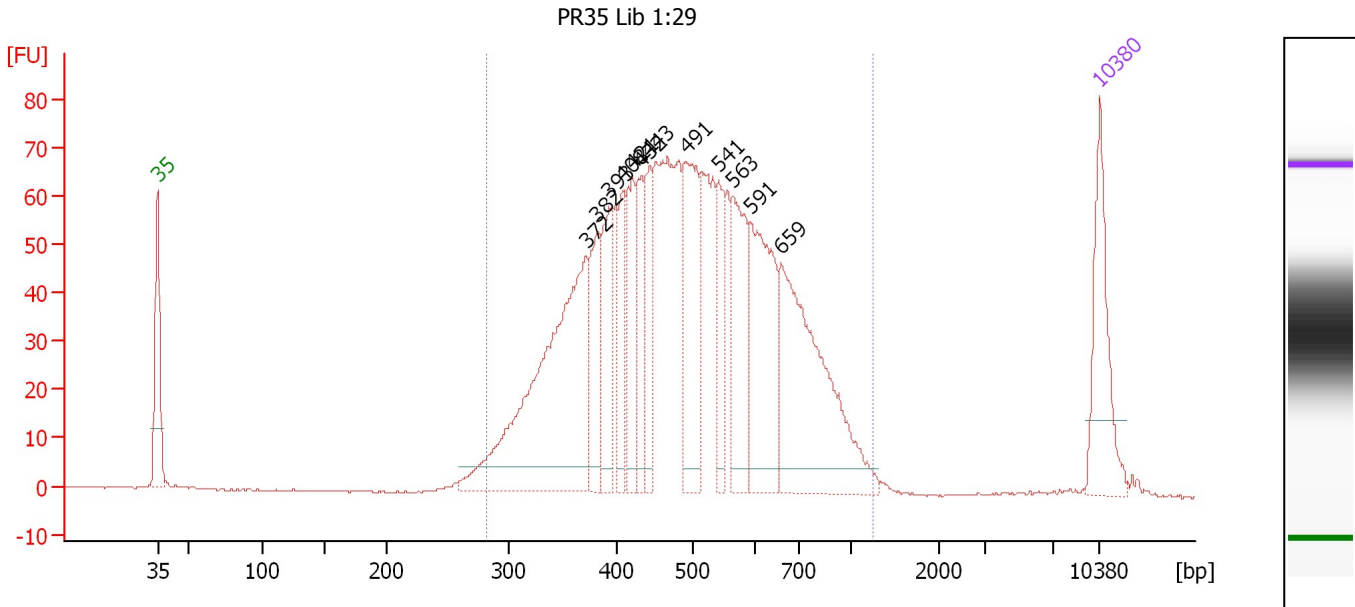
**Region table for sample 1 : MK79j Lib 1:34**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
275	1,377	539	6,848.0	2,163.61	1,681.4	97	32.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : PR35 Lib 1:29**

Number of peaks found: 12      Corr. Area 1: 1,579.7  
 Noise: 0.2

**Peak table for sample 2 : PR35 Lib 1:29**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.85	372	362.36	1,476.5	
3	75.69	382	83.85	332.2	
4	76.53	393	81.69	315.0	
5	77.56	408	58.62	217.7	
6	78.27	421	79.17	285.2	
7	78.89	432	61.42	215.6	
8	79.55	443	62.33	213.0	
9	82.26	491	136.13	419.7	
10	84.66	541	57.40	160.8	
11	85.68	563	103.09	277.6	
12	87.02	591	153.04	392.3	
13	89.33	659	244.26	561.4	
14	113.00	10,380	75.00	10.9	Upper Marker

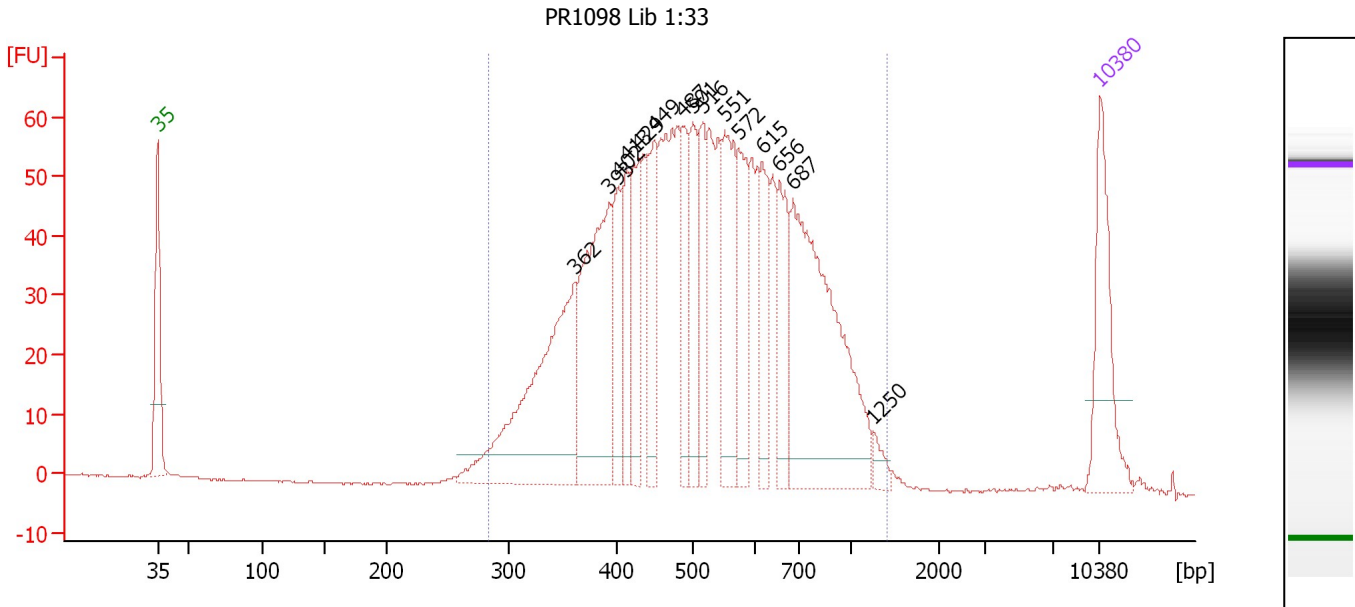
**Region table for sample 2 : PR35 Lib 1:29**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
282	1,247	512	6,375.4	1,947.41	1,579.7	98	29.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : PR1098 Lib 1:33**

Number of peaks found: 15      Corr. Area 1: 1,453.2  
 Noise: 0.1

**Peak table for sample 3 : PR1098 Lib 1:33**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.04	362	264.62	1,108.4	
3	76.56	393	204.31	787.3	
4	77.23	402	67.14	252.8	
5	77.86	413	61.40	225.0	
6	78.72	429	81.24	287.1	
7	79.89	449	74.84	252.3	
8	82.01	487	62.51	194.5	
9	82.77	501	66.71	201.9	
10	83.50	516	65.04	191.0	
11	85.16	551	110.53	303.7	
12	86.11	572	75.10	199.0	
13	87.91	615	61.65	151.9	
14	89.22	656	70.71	163.4	
15	90.21	687	289.34	638.3	
16	96.20	1,250	10.14	12.3	
17	113.00	10,380	75.00	10.9	Upper Marker

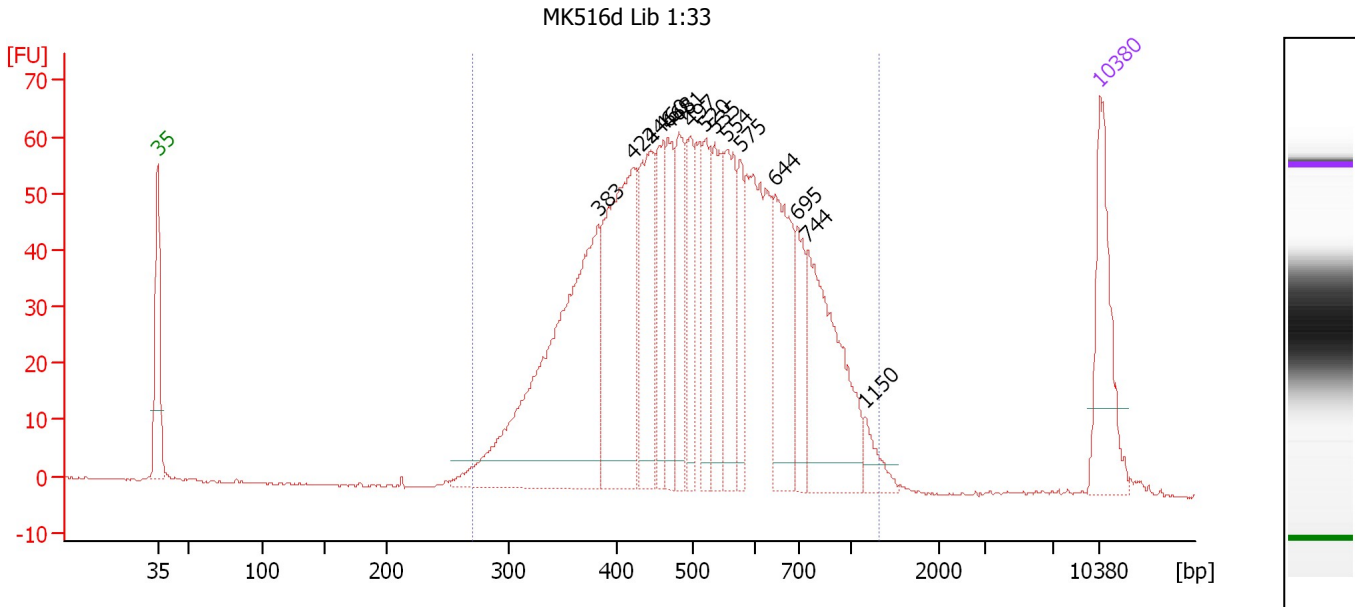
**Region table for sample 3 : PR1098 Lib 1:33**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
283	1,397	545	6,309.1	2,007.41	1,453.2	98	33.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MK516d Lib 1:33**

Number of peaks found: 15                      Corr. Area 1: 1,486.4  
 Noise: 0.2

**Peak table for sample 4 : MK516d Lib 1:33**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.72	383	397.84	1,575.1	
3	78.37	422	237.47	851.9	
4	79.69	446	123.67	420.3	
5	80.51	460	70.45	231.8	
6	80.92	468	75.28	243.9	
7	81.70	481	70.88	223.1	
8	82.57	497	65.13	198.6	
9	83.67	520	80.42	234.5	
10	84.40	535	76.91	217.7	
11	85.27	554	94.26	257.9	
12	86.27	575	49.66	130.8	
13	88.83	644	119.53	281.4	
14	90.47	695	52.44	114.3	
15	91.20	744	169.74	345.8	
16	95.55	1,150	19.46	25.7	
17	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : MK516d Lib 1:33**

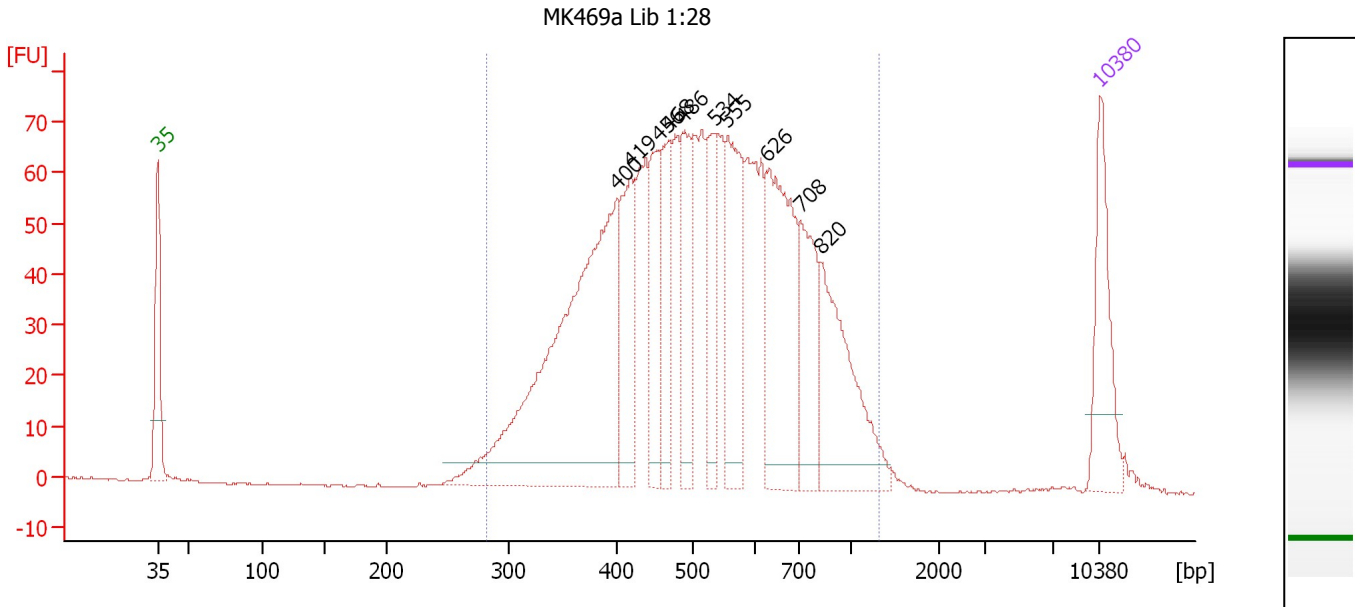
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
271	1,318	536	6,171.4	1,937.55	1,486.4	99	32.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : MK469a Lib 1:28**

Number of peaks found: 10                      Corr. Area 1: 1,675.0  
 Noise: 0.1

**Peak table for sample 5 : MK469a Lib 1:28**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	77.10	400	503.13	1,906.0	
3	78.16	419	108.72	393.4	
4	80.24	456	88.48	294.3	
5	80.93	468	89.96	291.3	
6	81.95	486	91.47	285.3	
7	84.35	534	85.85	243.5	
8	85.32	555	133.76	365.2	
9	88.28	626	193.27	467.4	
10	90.73	708	98.99	212.0	
11	92.21	820	156.45	289.0	
12	113.00	10,380	75.00	10.9	Upper Marker

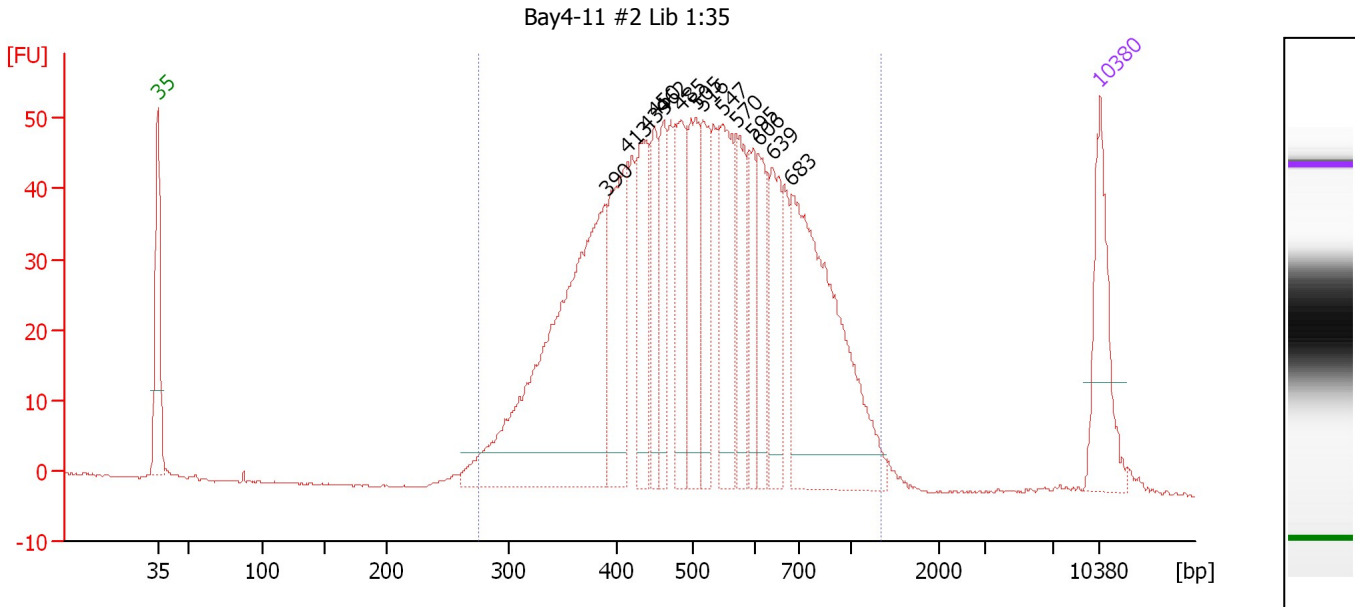
**Region table for sample 5 : MK469a Lib 1:28**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
282	1,300	545	6,488.3	2,070.69	1,675.0	97	32.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Bay4-11 #2 Lib 1:35**

Number of peaks found: 14                      Corr. Area 1: 1,255.3  
 Noise: 0.2

**Peak table for sample 6 : Bay4-11 #2 Lib 1:35**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.30	390	465.39	1,808.1	
3	77.84	413	144.50	530.1	
4	79.28	439	109.45	378.1	
5	79.93	450	66.23	222.9	
6	80.58	462	72.02	236.4	
7	81.89	485	102.40	320.1	
8	83.01	505	100.68	301.8	
9	83.52	516	78.79	231.2	
10	84.96	547	124.59	345.0	
11	86.03	570	77.27	205.3	
12	87.20	595	60.77	154.7	
13	87.62	606	62.43	156.2	
14	88.69	639	78.58	186.3	
15	90.09	683	315.74	700.5	
16	113.00	10,380	75.00	10.9	Upper Marker

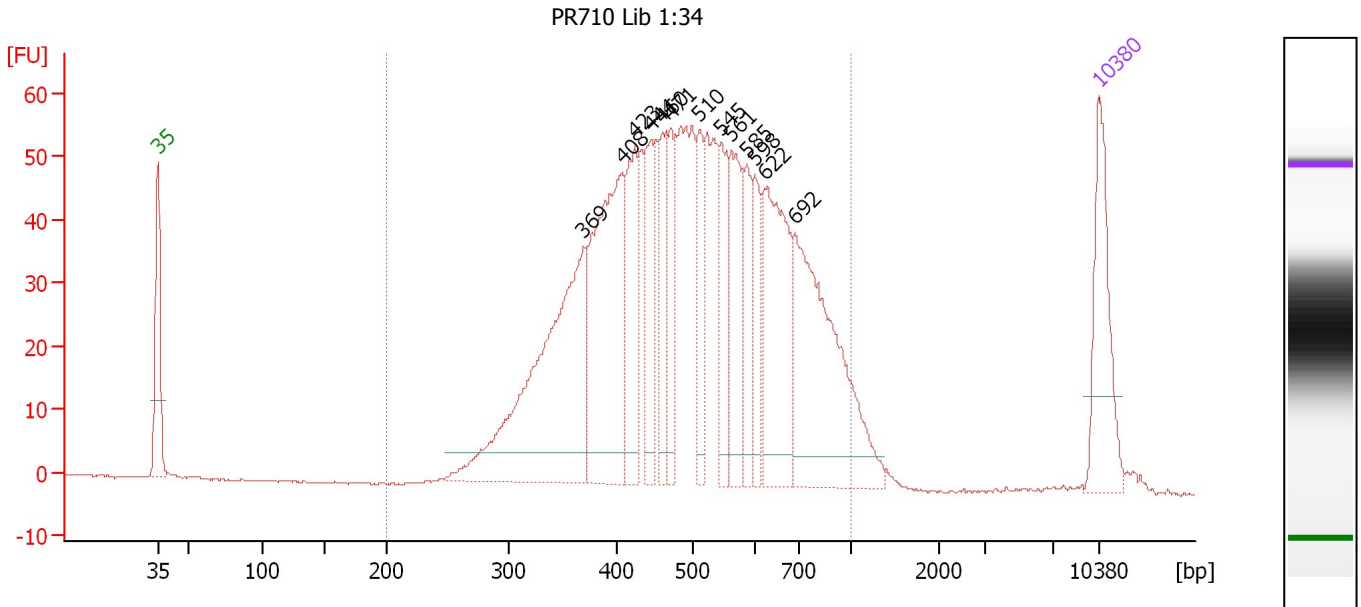
**Region table for sample 6 : Bay4-11 #2 Lib 1:35**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
276	1,336	543	6,654.3	2,106.81	1,255.3	98	32.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PR710 Lib 1:34**

Number of peaks found: 13      Corr. Area 1: 1,310.6  
 Noise: 0.1

**Peak table for sample 7 : PR710 Lib 1:34**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.65	369	326.20	1,338.0	
3	77.53	408	236.79	880.4	
4	78.42	423	92.57	331.2	
5	79.60	444	81.05	276.4	
6	80.50	460	62.94	207.2	
7	81.11	471	62.86	202.2	
8	83.24	510	60.32	179.1	
9	84.84	545	67.47	187.7	
10	85.59	561	84.17	227.4	
11	86.73	585	52.25	135.3	
12	87.34	598	45.70	115.8	
13	88.14	622	152.07	370.3	
14	90.36	692	233.13	510.8	
15	113.00	10,380	75.00	10.9	Upper Marker

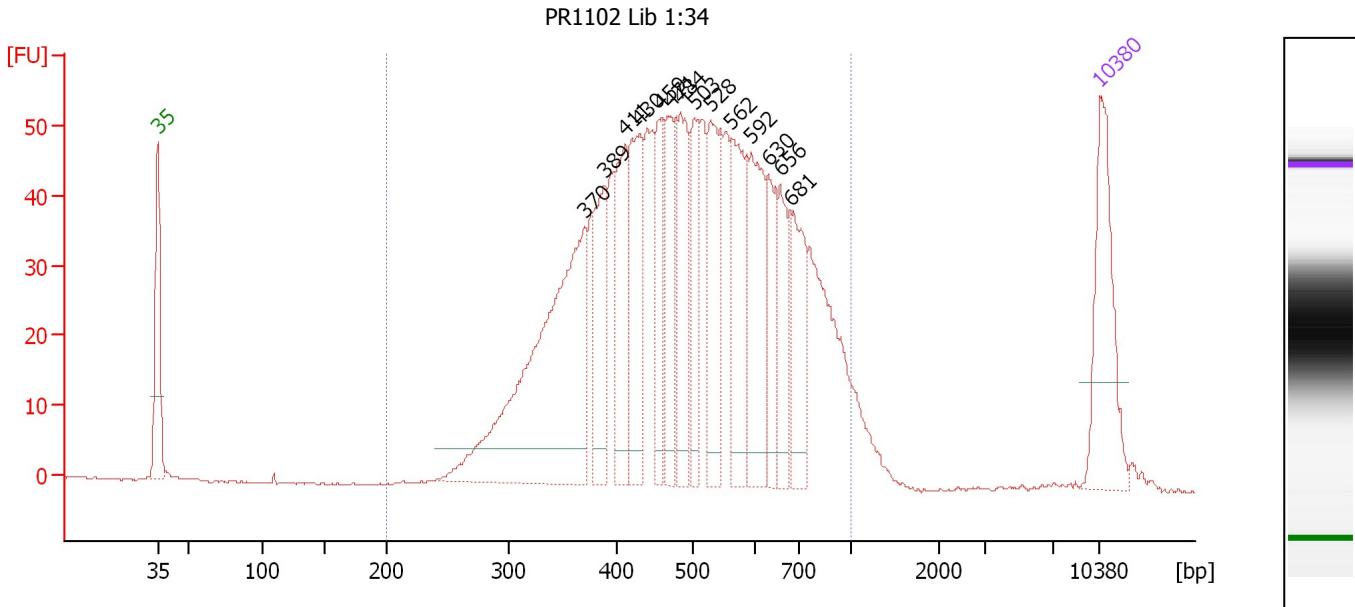
**Region table for sample 7 : PR710 Lib 1:34**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	517	6,204.7	1,907.06	1,310.6	97	28.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
 Modified: 2/27/2014 1:59:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PR1102 Lib 1:34**

Number of peaks found: 14      Corr. Area 1: 1,277.3  
 Noise: 0.1

**Peak table for sample 8 : PR1102 Lib 1:34**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.68	370	318.86	1,306.5	
3	76.19	389	75.76	295.4	
4	77.74	411	91.34	336.5	
5	78.78	430	99.56	351.1	
6	80.42	459	55.35	182.8	
7	81.13	471	72.55	233.2	
8	81.84	484	83.88	262.7	
9	82.87	503	57.67	173.8	
10	84.05	528	89.93	258.2	
11	85.65	562	91.32	246.2	
12	87.06	592	92.54	236.8	
13	88.38	630	50.82	122.3	
14	89.23	656	53.74	124.1	
15	90.03	681	69.50	154.6	
16	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : PR1102 Lib 1:34**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	514	5,735.4	1,743.19	1,277.3	96	29.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Settings\Bioanalyzer\2014-02-27\2014-02-27\_003\_gDNA\_Lib.xad

Created: 2/27/2014 1:10:41 PM  
Modified: 2/27/2014 1:59:58 PM

**Gel Image**

