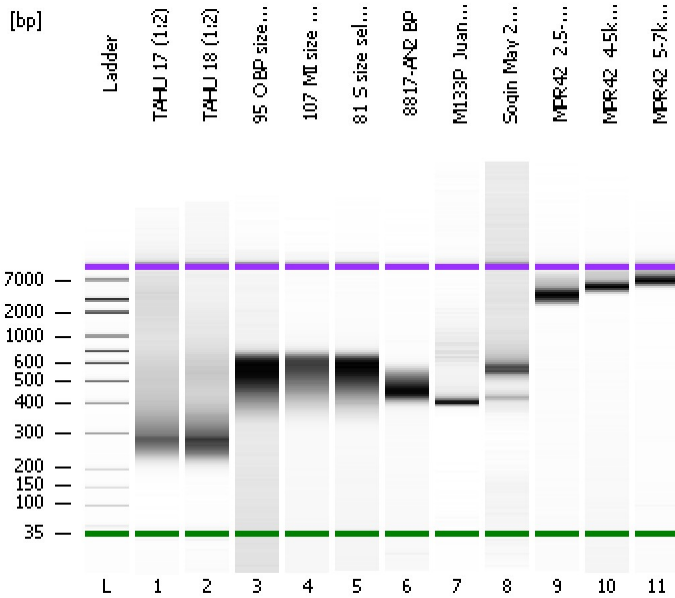


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
Modified: 6/10/2015 1:34:48 PM

Electrophoresis File Run Summary



Instrument Information:

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

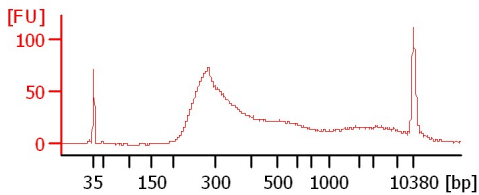
Assay Information:

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

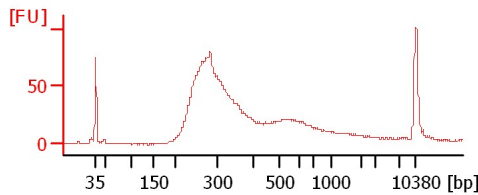
Chip Information:

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

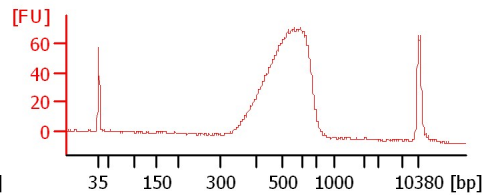
TAHU 17 (1:2)



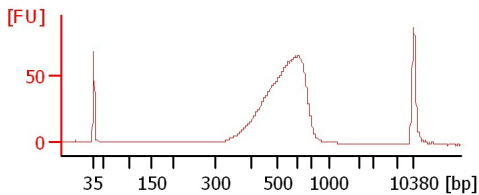
TAHU 18 (1:2)



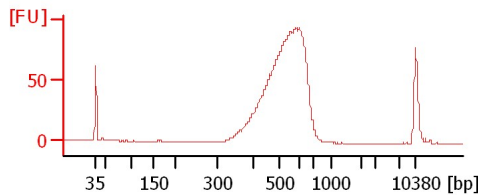
95 O BP size sel. MP lib



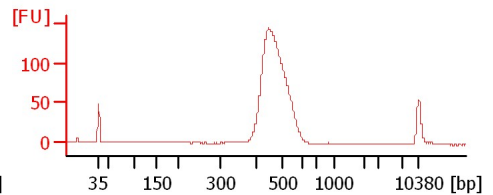
107 MI size sel. MP lib



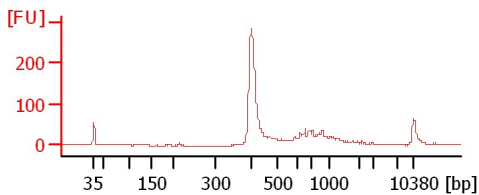
81 S size sel. MP lib



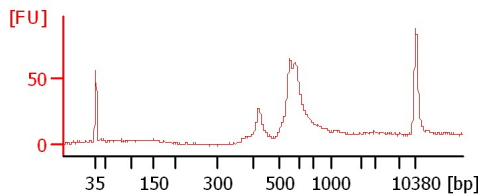
8817-AN2 BP



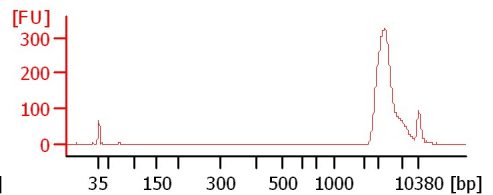
M133P_Juan Dd2



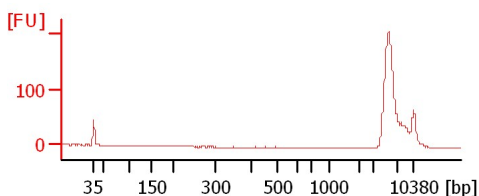
Soqin May 2015



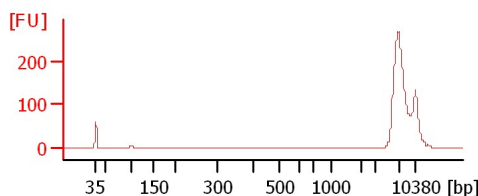
MPR42_2.5-4kb gel extraction



MPR42_4-5kb gel extraction



MPR42_5-7kb gel extraction



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TAHU 17 (1:2)		<input type="checkbox"/>	✓			
TAHU 18 (1:2)		<input type="checkbox"/>	✓			
95 O BP size sel. MP lib		<input type="checkbox"/>	✓			
107 MI size sel. MP lib		<input type="checkbox"/>	✓			
81 S size sel. MP lib		<input type="checkbox"/>	✓			
8817-AN2 BP		<input type="checkbox"/>	✓			
M133P_Juan Dd2		<input type="checkbox"/>	✓			
Sogin May 2015		<input type="checkbox"/>	✓			
MPR42_2.5-4kb gel extraction		<input type="checkbox"/>	✓			
MPR42_4-5kb gel extraction		<input type="checkbox"/>	✓			
MPR42_5-7kb gel extraction		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
Modified: 6/10/2015 1:34:48 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/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

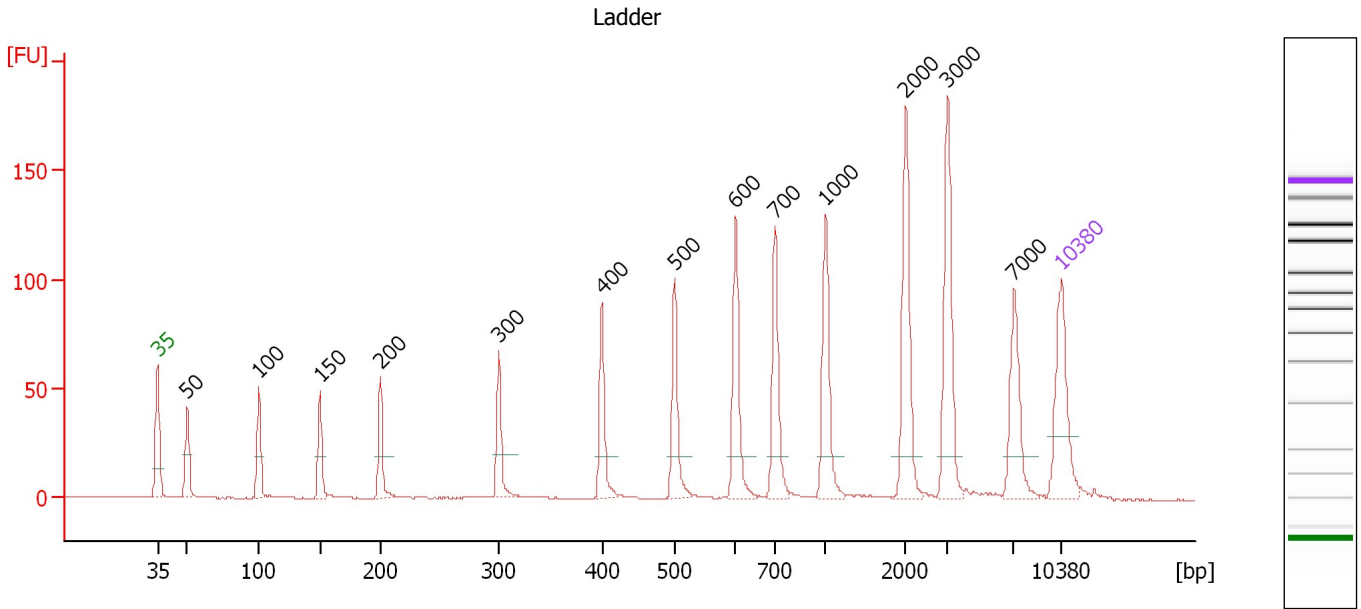
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

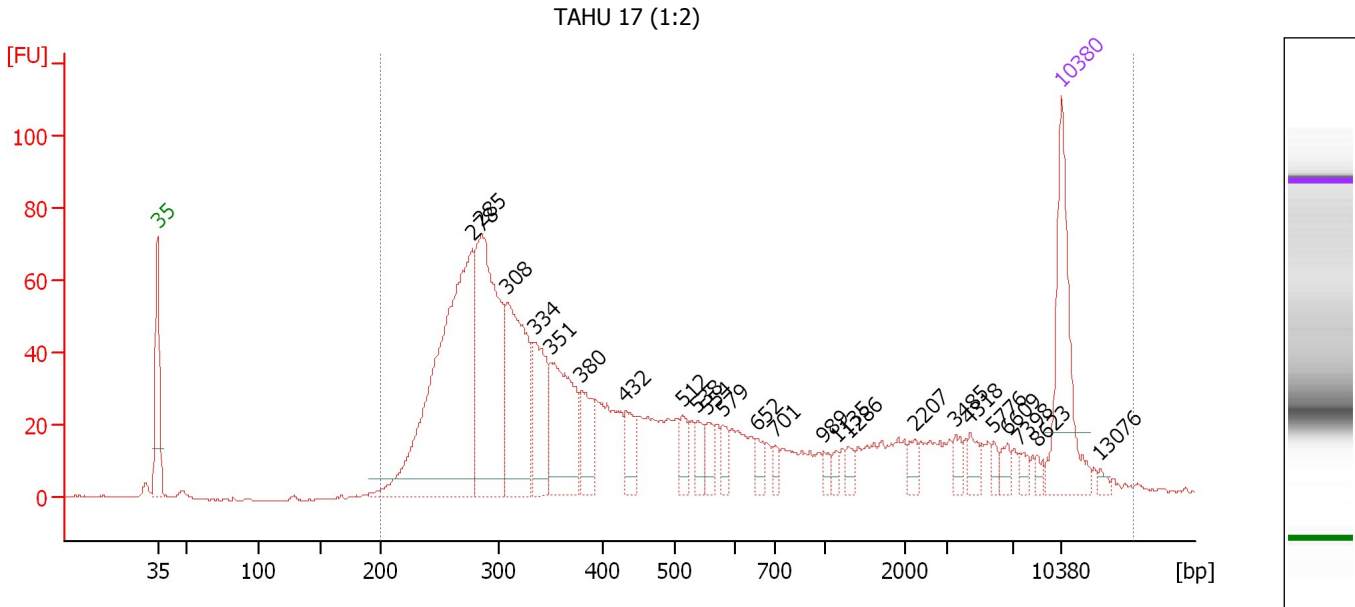
Peak table for Ladder

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.60
5	200	150.00	1,136.4	Ladder Peak	60.27
6	300	150.00	757.6	Ladder Peak	69.43
7	400	150.00	568.2	Ladder Peak	77.41
8	500	150.00	454.5	Ladder Peak	83.04
9	600	150.00	378.8	Ladder Peak	87.76
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	94.72
12	2,000	150.00	113.6	Ladder Peak	100.93
13	3,000	150.00	75.8	Ladder Peak	104.15
14	7,000	150.00	32.5	Ladder Peak	109.30
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TAHU 17 (1:2)

Number of peaks found: 24 Corr. Area 1: 1,627.8
 Noise: 0.2

Peak table for sample 1 : TAHU 17 (1:2)

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	278	368.93	2,013.8		67.38
3	285	235.14	1,250.5		68.05
4	308	154.91	762.3		70.06
5	334	76.87	349.0		72.12
6	351	106.18	459.0		73.46
7	380	38.08	151.7		75.83
8	432	28.87	101.2		79.23
9	512	16.96	50.2		83.61
10	538	14.50	40.9		84.82
11	554	15.64	42.8		85.58
12	579	13.53	35.4		86.74
13	652	9.94	23.1		89.34
14	701	7.67	16.6		90.81
15	989	6.91	10.6		94.57
16	1,135	5.59	7.5		95.56
17	1,286	7.71	9.1		96.50
18	2,207	8.56	5.9		101.59
19	3,485	8.29	3.6		104.77
20	4,318	10.31	3.6		105.84
21	5,776	5.47	1.4		107.72
22	6,609	7.89	1.8		108.80
23	7,398	6.10	1.2		109.73
24	8,623	4.09	0.7		111.08
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...**... Peak table for sample 1 : TAHU 17 (1:2)**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,076	0.00	0.0		115.95

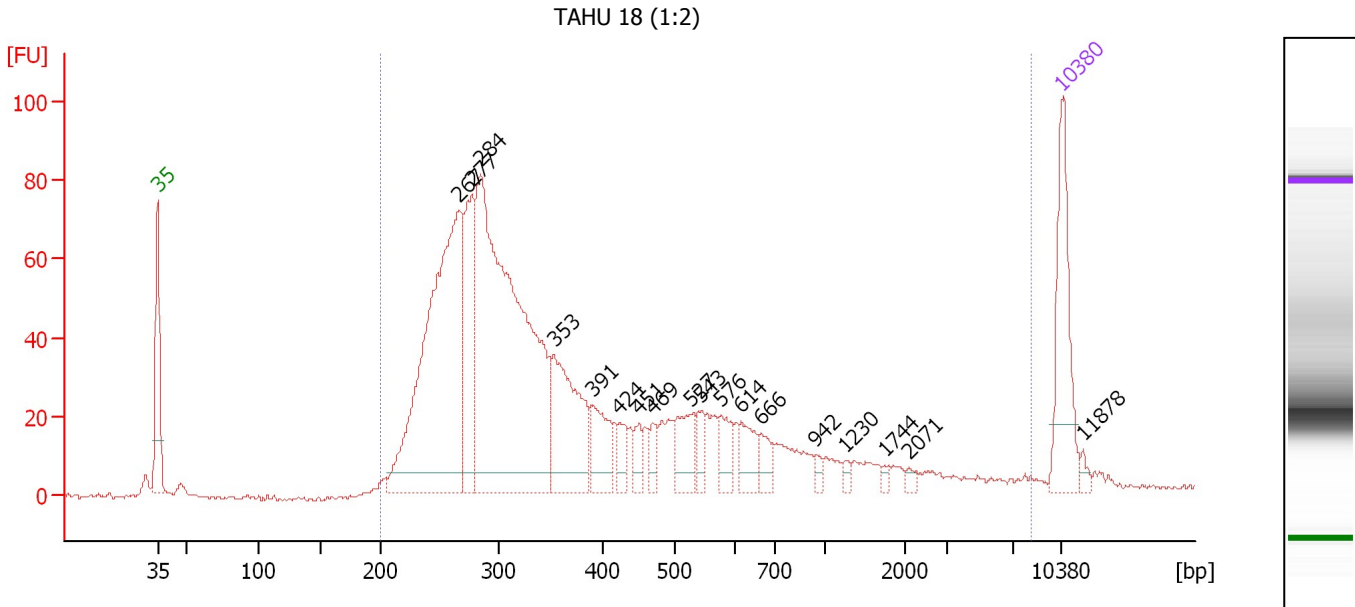
Region table for sample 1 : TAHU 17 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
200	2,011	15,387	1,627.8	6,217.1	99	100.0	1,498.09

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TAHU 18 (1:2)

Number of peaks found: 18 Corr. Area 1: 1,531.1
 Noise: 0.5

Peak table for sample 2 : TAHU 18 (1:2)

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	267	455.85	2,591.5		66.36
3	277	122.71	670.1		67.37
4	284	589.94	3,142.8		68.00
5	353	135.96	582.8		73.70
6	391	50.69	196.4		76.70
7	424	18.83	67.3		78.75
8	451	16.81	56.5		80.25
9	469	14.67	47.4		81.30
10	527	39.26	112.9		84.31
11	543	15.04	42.0		85.08
12	576	25.03	65.8		86.63
13	614	27.06	66.8		88.18
14	666	17.46	39.7		89.77
15	942	5.39	8.7		93.96
16	1,230	4.25	5.2		96.15
17	1,744	3.32	2.9		99.34
18	2,071	3.86	2.8		101.16
19	10,380	75.00	10.9	Upper Marker	113.00
20	11,878	0.00	0.0		114.64

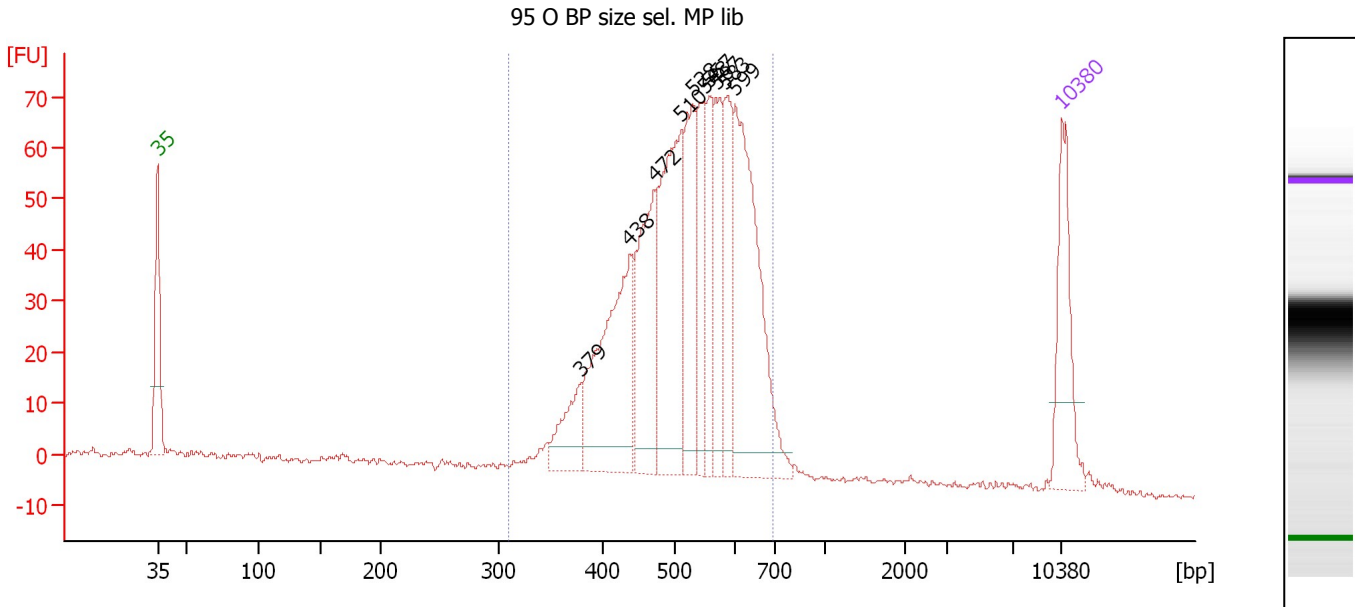
Region table for sample 2 : TAHU 18 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	543	8,268	1,531.1	8,021.2	98	100.0	1,739.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 95 O BP size sel. MP lib

Number of peaks found: 10 Corr. Area 1: 1,024.3
 Noise: 0.6

Peak table for sample 3 : 95 O BP size sel. MP lib

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	56.48	225.6		75.75
3	438	217.33	751.7		79.55
4	472	161.34	518.2		81.45
5	510	220.54	654.6		83.54
6	528	115.96	332.7		84.37
7	548	82.63	228.6		85.30
8	557	71.82	195.5		85.71
9	567	81.26	217.0		86.22
10	583	95.19	247.3		86.96
11	599	250.17	632.9		87.71
12	10,380	75.00	10.9	Upper Marker	113.00

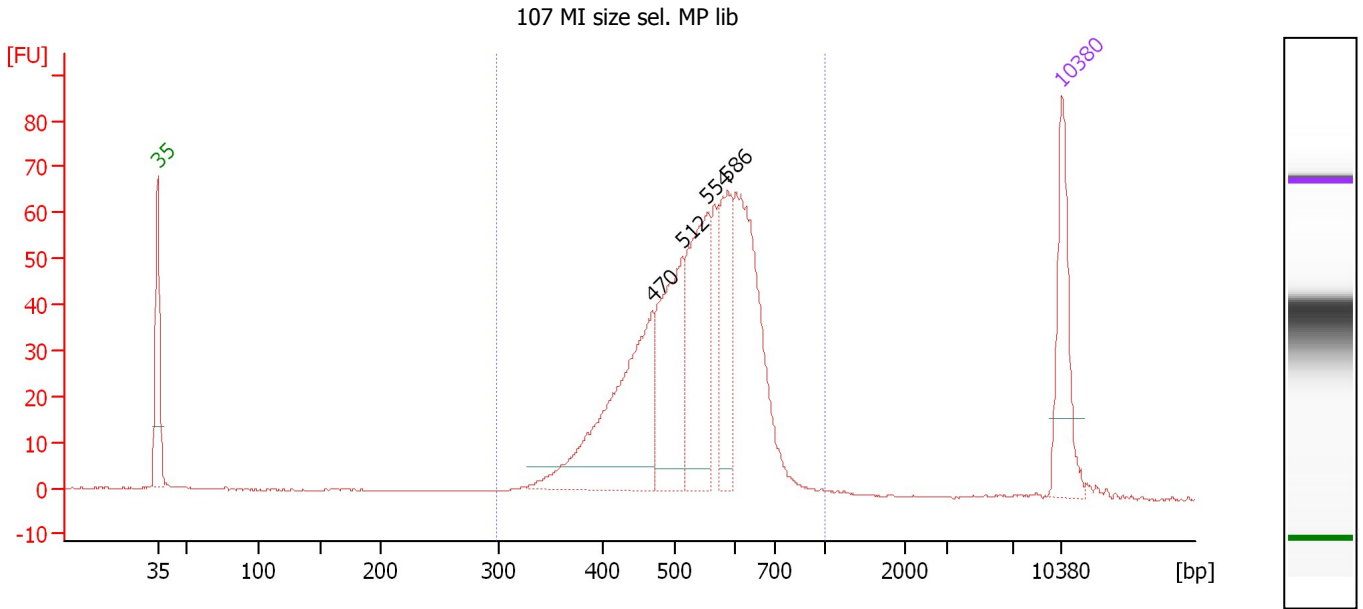
Region table for sample 3 : 95 O BP size sel. MP lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
309	520	694	1,024.3	4,220.3	90	15.8	1,394.94

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 107 MI size sel. MP lib

Number of peaks found: 4 Corr. Area 1: 814.4
 Noise: 0.1

Peak table for sample 4 : 107 MI size sel. MP lib

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	470	246.63	795.8		81.33
3	512	162.68	481.7		83.59
4	554	164.56	450.3		85.58
5	586	97.43	252.0		87.09
6	10,380	75.00	10.9	Upper Marker	113.00

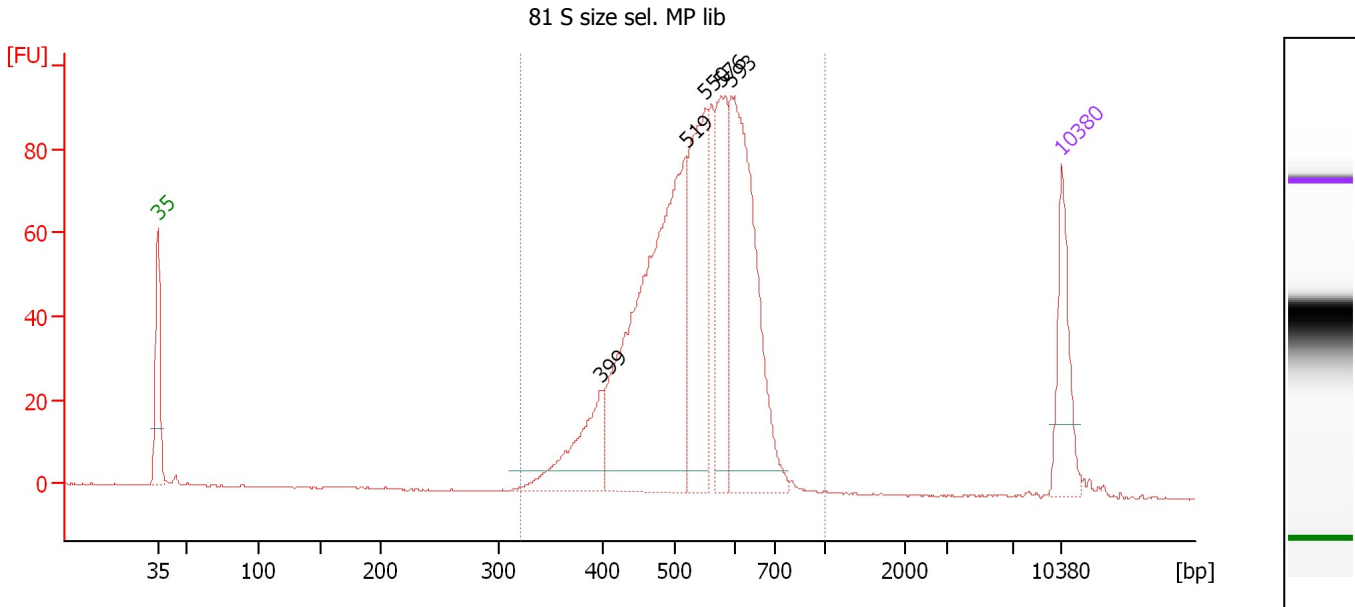
Region table for sample 4 : 107 MI size sel. MP lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
299	537	1,000	814.4	2,940.5	97	16.7	1,002.04

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 81 S size sel. MP lib

Number of peaks found: 5 Corr. Area 1: 1,130.6
 Noise: 0.2

Peak table for sample 5 : 81 S size sel. MP lib

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	399	123.38	468.1		77.35
3	519	585.09	1,709.1		83.93
4	550	244.20	672.4		85.41
5	576	166.80	439.0		86.61
6	593	358.24	915.3		87.43
7	10,380	75.00	10.9	Upper Marker	113.00

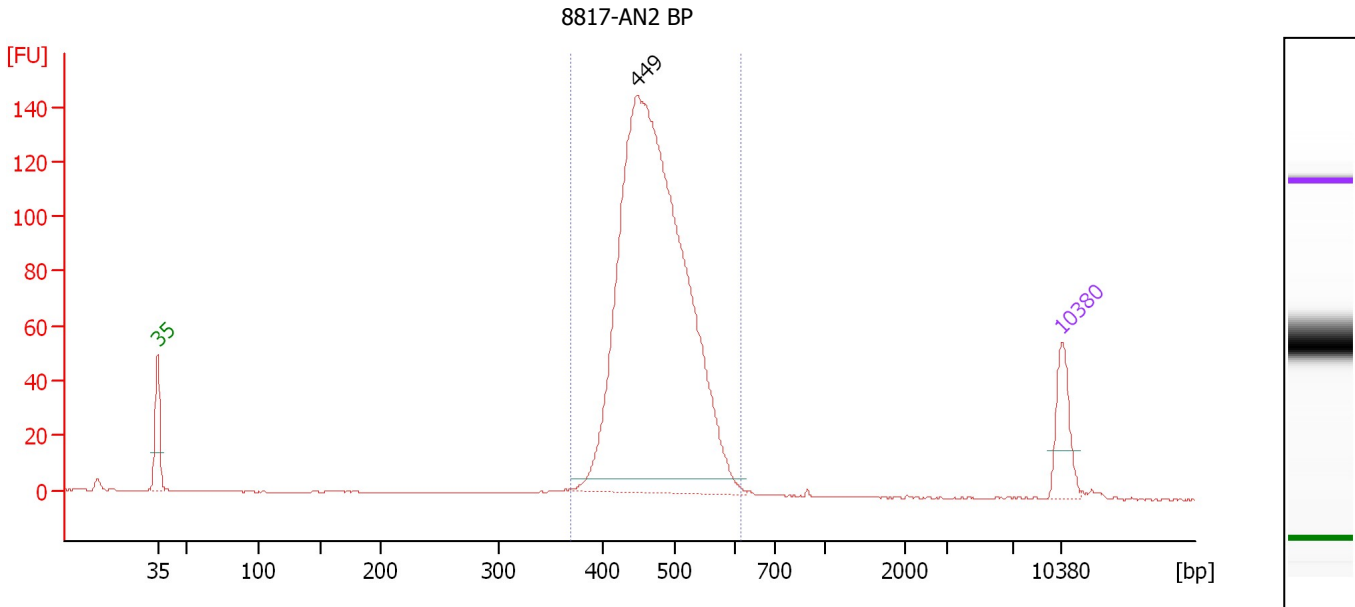
Region table for sample 5 : 81 S size sel. MP lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
320	532	1,000	1,130.6	4,667.4	99	15.3	1,585.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 8817-AN2 BP

Number of peaks found: 1 Corr. Area 1: 1,114.0
 Noise: 0.1

Peak table for sample 6 : 8817-AN2 BP

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	449	1,943.93	6,566.6		80.14
3	10,380	75.00	10.9	Upper Marker	113.00

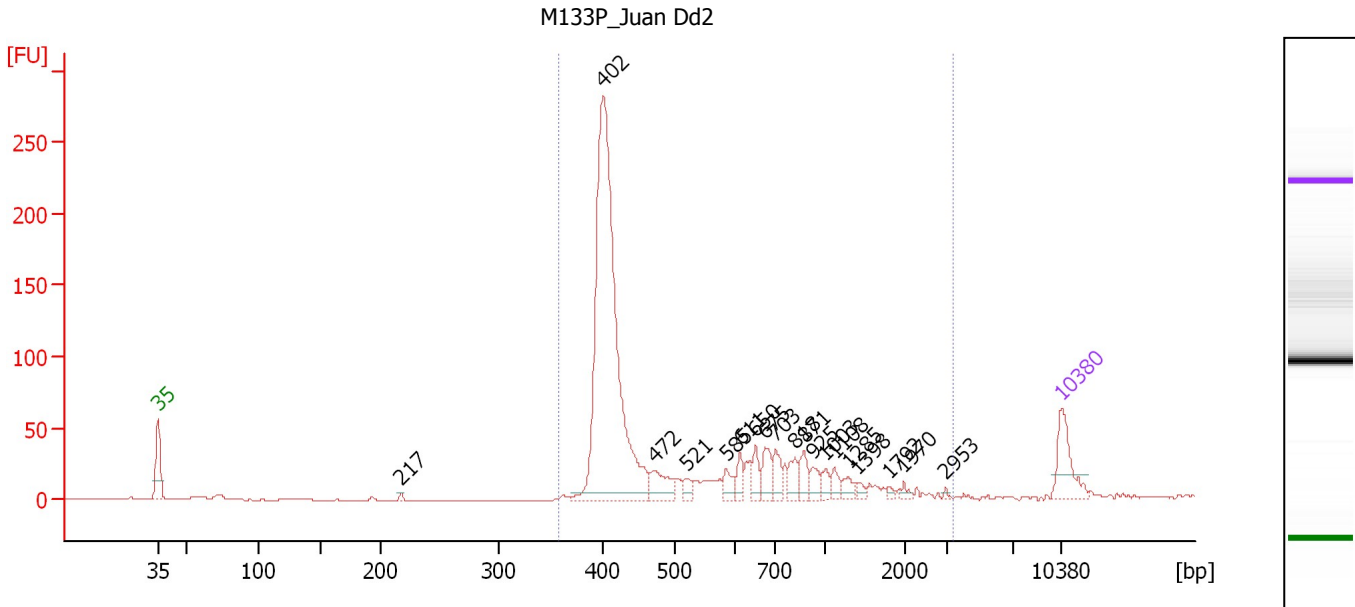
Region table for sample 6 : 8817-AN2 BP

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
370	474	614	1,114.0	6,174.7	97	9.3	1,916.32

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : M133P Juan Dd2

Number of peaks found: 19 Corr. Area 1: 1,083.3
 Noise: 0.2

Peak table for sample 7 : M133P Juan Dd2

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	217	4.91	34.2		61.86
3	402	1,053.96	3,971.3		77.52
4	472	64.33	206.4		81.48
5	521	22.09	64.3		84.03
6	585	29.64	76.8		87.03
7	611	28.53	70.8		88.08
8	650	35.99	83.9		89.28
9	675	46.82	105.1		90.03
10	703	39.66	85.5		90.83
11	818	35.06	65.0		92.34
12	871	36.04	62.7		93.04
13	925	25.65	42.0		93.74
14	1,003	20.21	30.5		94.74
15	1,108	20.75	28.4		95.39
16	1,285	18.57	21.9		96.49
17	1,398	10.41	11.3		97.19
18	1,792	6.52	5.5		99.64
19	1,970	8.54	6.6		100.74
20	2,953	3.29	1.7		103.99
21	10,380	75.00	10.9	Upper Marker	113.00

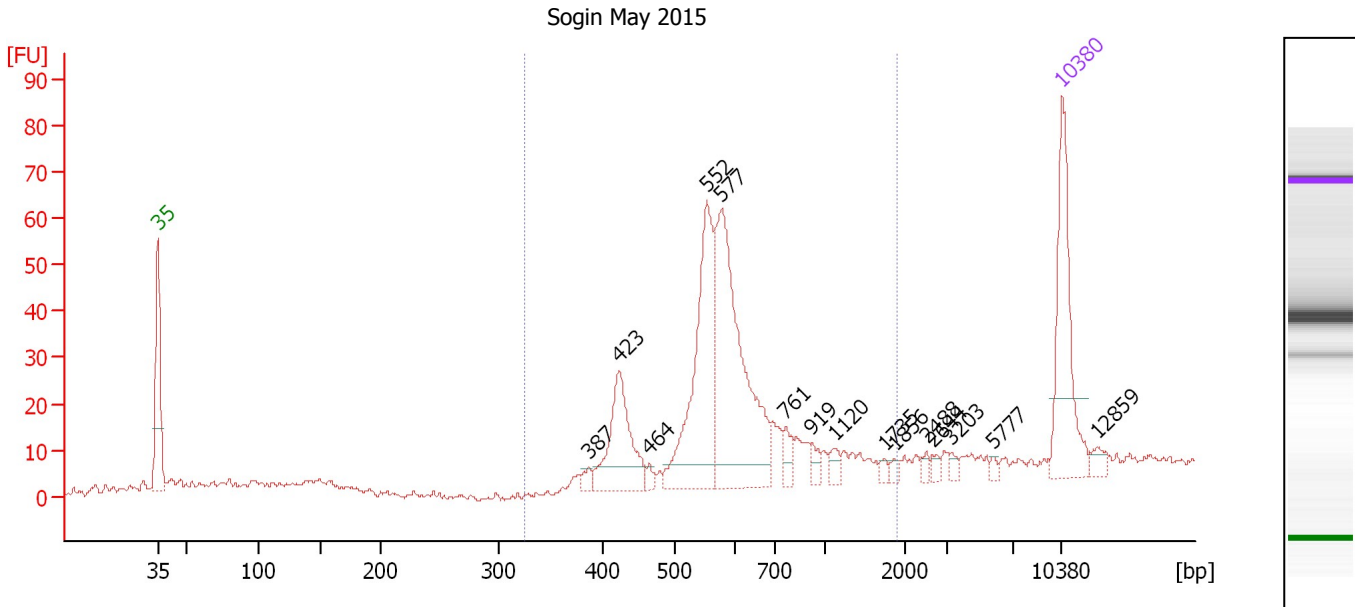
Region table for sample 7 : M133P Juan Dd2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
357	606	3,354	1,083.3	5,081.6	94	63.0	1,618.68

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sogin May 2015

Number of peaks found: 15 Corr. Area 1: 431.6
 Noise: 0.8

Peak table for sample 8 : Sogin May 2015

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	387	6.94	27.2		76.37
3	423	82.43	294.9		78.73
4	464	5.44	17.7		81.04
5	552	150.54	412.9		85.51
6	577	199.78	524.7		86.67
7	761	12.79	25.5		91.59
8	919	8.29	13.7		93.65
9	1,120	7.47	10.1		95.46
10	1,735	4.08	3.6		99.28
11	1,856	3.06	2.5		100.04
12	2,488	3.43	2.1		102.50
13	2,644	4.19	2.4		103.00
14	3,203	3.89	1.8		104.41
15	5,777	2.68	0.7		107.72
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,859	0.00	0.0		115.71

Region table for sample 8 : Sogin May 2015

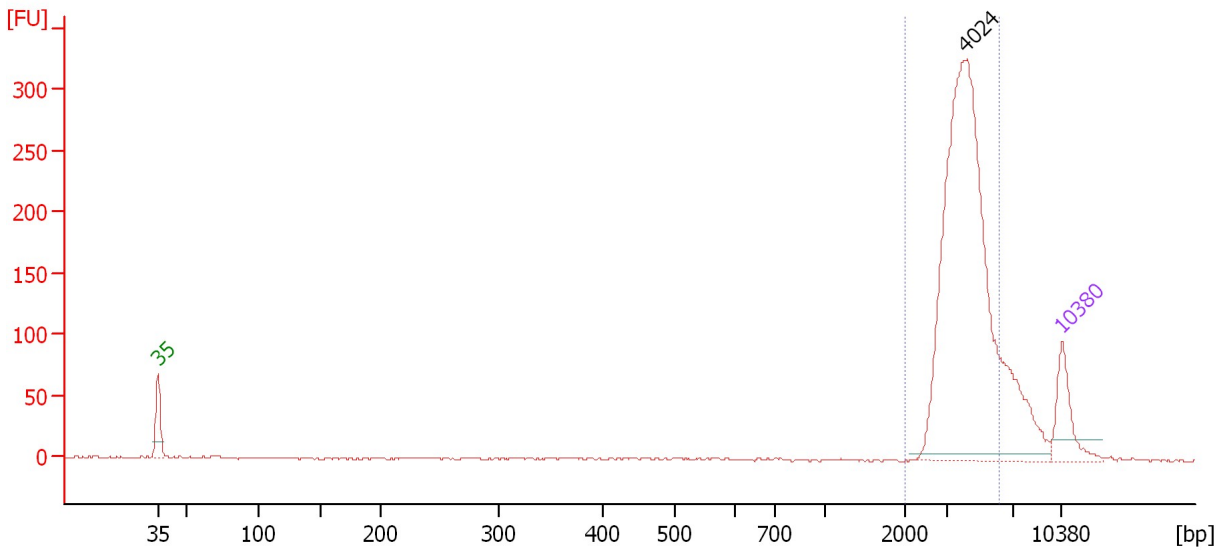
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
325	647	1,893	431.6	1,356.5	69	39.9	515.48

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...

MPR42_2.5-4kb gel extraction



Overall Results for sample 9 : MPR42 2.5-4kb gel extraction

Number of peaks found: 1 Corr. Area 1: 1,104.8
 Noise: 0.9

Peak table for sample 9 : MPR42 2.5-4kb gel extraction

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	4,024	944.22	355.5		105.47
3	10,380	75.00	10.9	Upper Marker	113.00

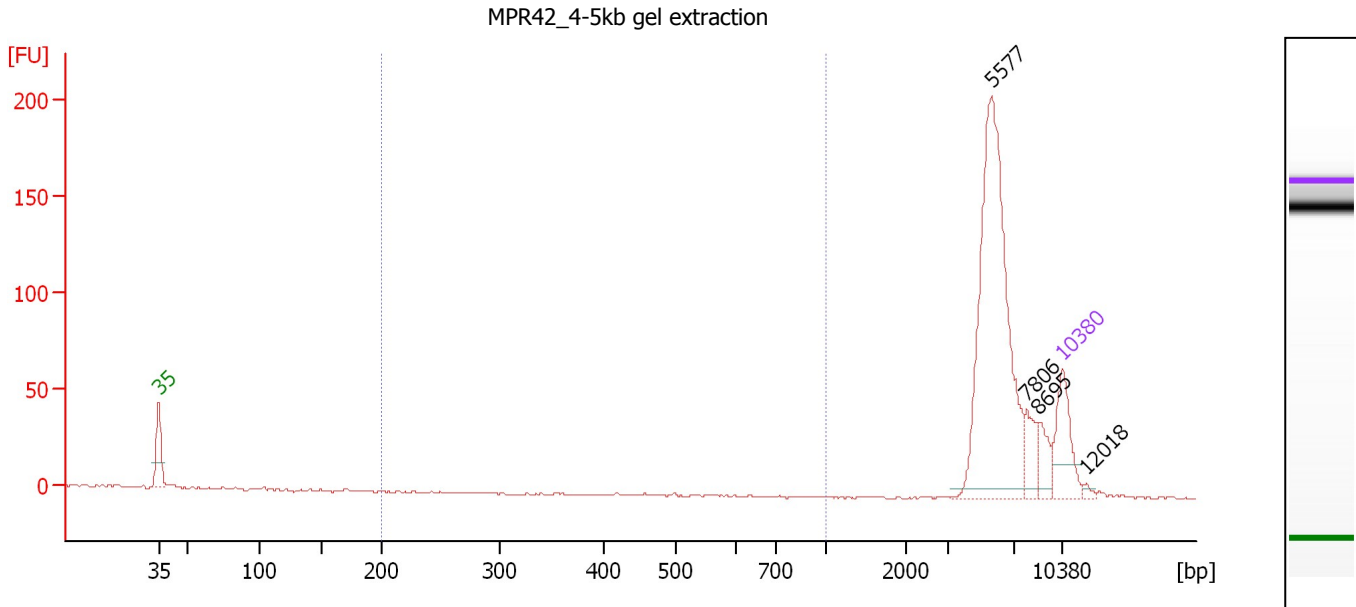
Region table for sample 9 : MPR42 2.5-4kb gel extraction

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
1,988	4,007	6,115	1,104.8	313.7	81	22.7	807.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MPR42_4-5kb gel extraction

Number of peaks found: 4 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 10 : MPR42_4-5kb gel extraction

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	5,577	487.65	132.5		107.47
3	7,806	42.78	8.3		110.18
4	8,695	33.56	5.8		111.16
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,018	0.00	0.0		114.79

Region table for sample 10 : MPR42_4-5kb gel extraction

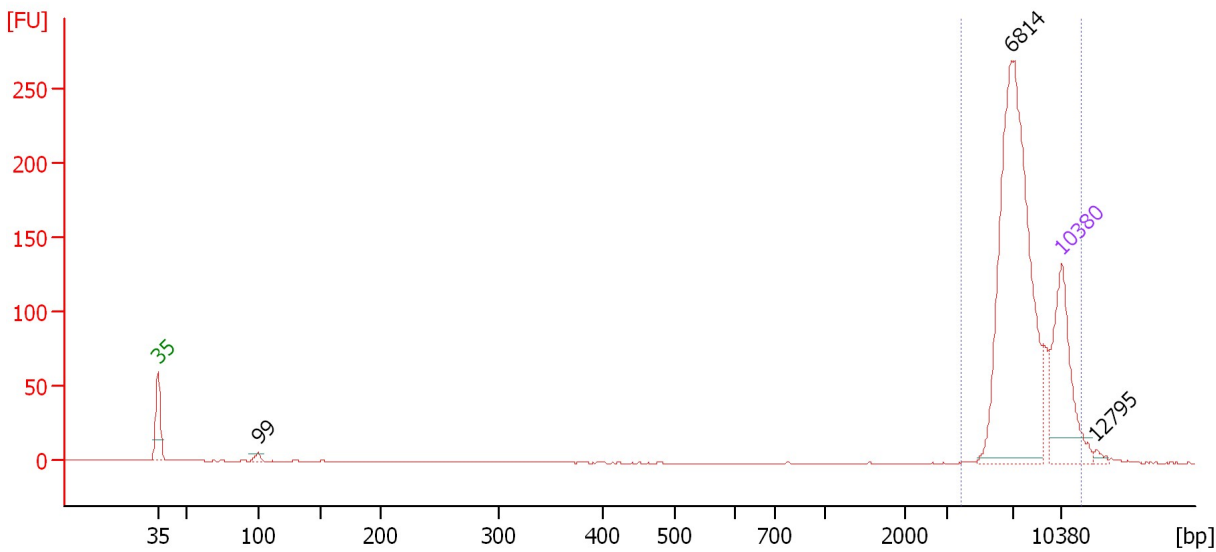
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	0	1,000	0.0	0.0	0	0.0	0.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
 Modified: 6/10/2015 1:34:48 PM

Electropherogram Summary Continued ...

MPR42_5-7kb gel extraction



Overall Results for sample 11 : MPR42 5-7kb gel extraction

Number of peaks found: 3 Corr. Area 1: 688.9
 Noise: 0.2

Peak table for sample 11 : MPR42 5-7kb gel extraction

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	99	4.62	70.3		50.78
3	6,814	280.33	62.3		109.06
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,795	0.00	0.0		115.64

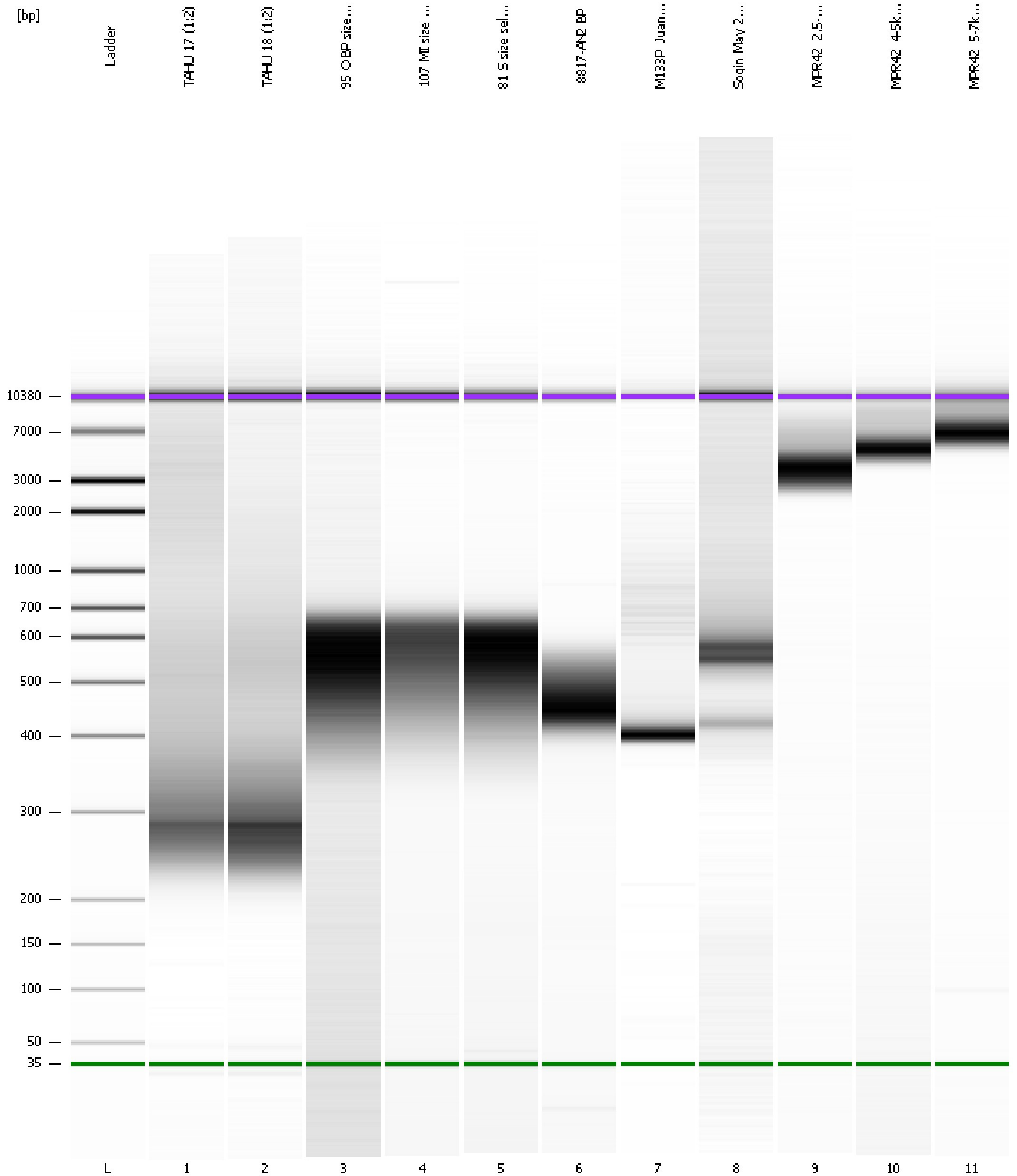
Region table for sample 11 : MPR42 5-7kb gel extraction

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
3,831	7,883	11,740	688.9	60.7	96	20.1	291.47

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
Modified: 6/10/2015 1:34:48 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_003.xad

Created: 6/10/2015 12:42:57 PM
Modified: 6/10/2015 1:34:48 PM

Curves

Standard Curve

