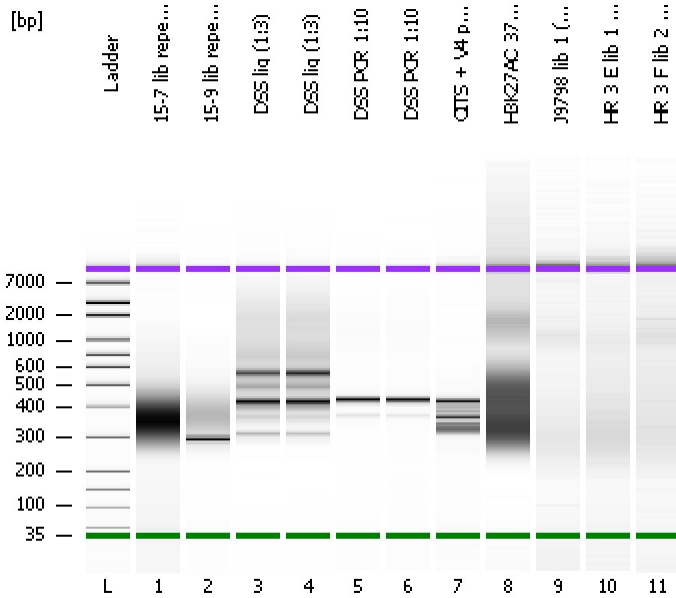


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
Modified: 2/2/2015 3:27:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

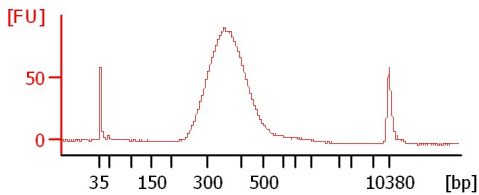
Assay Information:

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

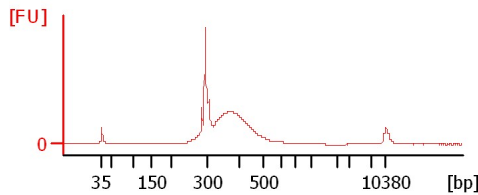
Chip Information:

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

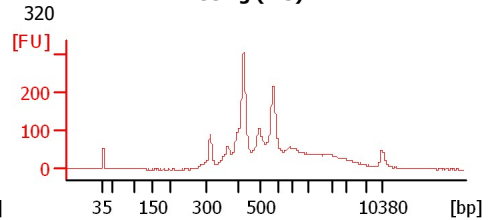
15-7 lib repeat (1:3)



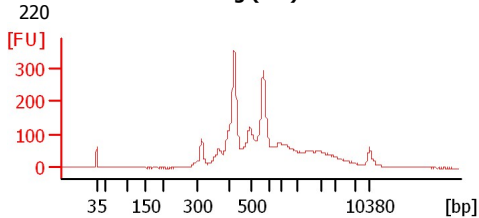
15-9 lib repeat (1:3)



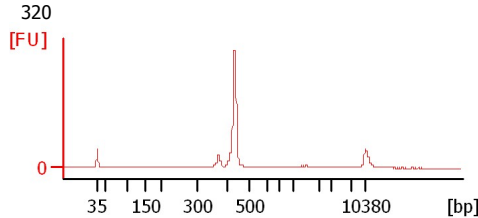
DSS lig (1:3)



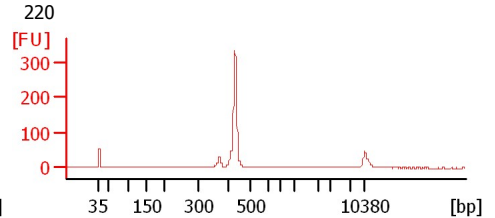
DSS lig (1:3)



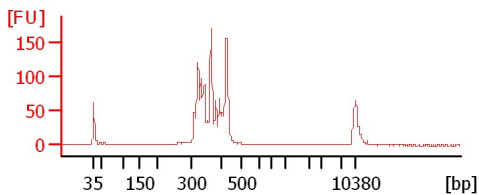
DSS PCR 1:10



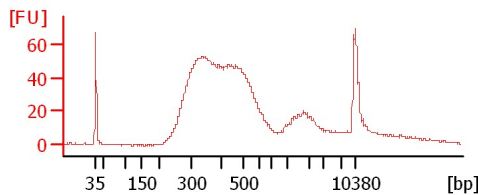
DSS PCR 1:10



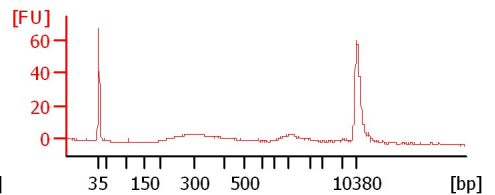
CITS + V4 pool PCR (1:2)



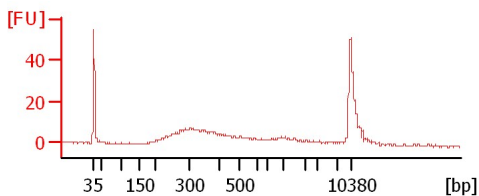
H3K27AC_37 Size Selection (1:8)



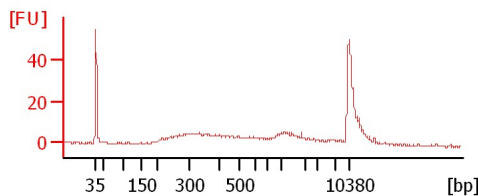
J9798 lib 1 (1:54)



HR 3 E lib 1 (1:118)



HR 3 F lib 2 (1:186)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
Modified: 2/2/2015 3:27:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
15-7 lib repeat (1:3)		<input type="checkbox"/>	✓			
15-9 lib repeat (1:3)		<input type="checkbox"/>	✓			
DSS lig (1:3)	320	<input type="checkbox"/>	✓			
DSS lig (1:3)	220	<input type="checkbox"/>	✓			
DSS PCR 1:10	320	<input type="checkbox"/>	✓			
DSS PCR 1:10	220	<input type="checkbox"/>	✓			
CITS + V4 pool PCR (1:2)		<input type="checkbox"/>	✓			
H3K27AC_37 Size Selection (1:8)		<input type="checkbox"/>	✓			
J9798 lib 1 (1:54)		<input type="checkbox"/>	✓			
HR 3 E lib 1 (1:118)		<input type="checkbox"/>	✓			
HR 3 F lib 2 (1:186)		<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\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 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

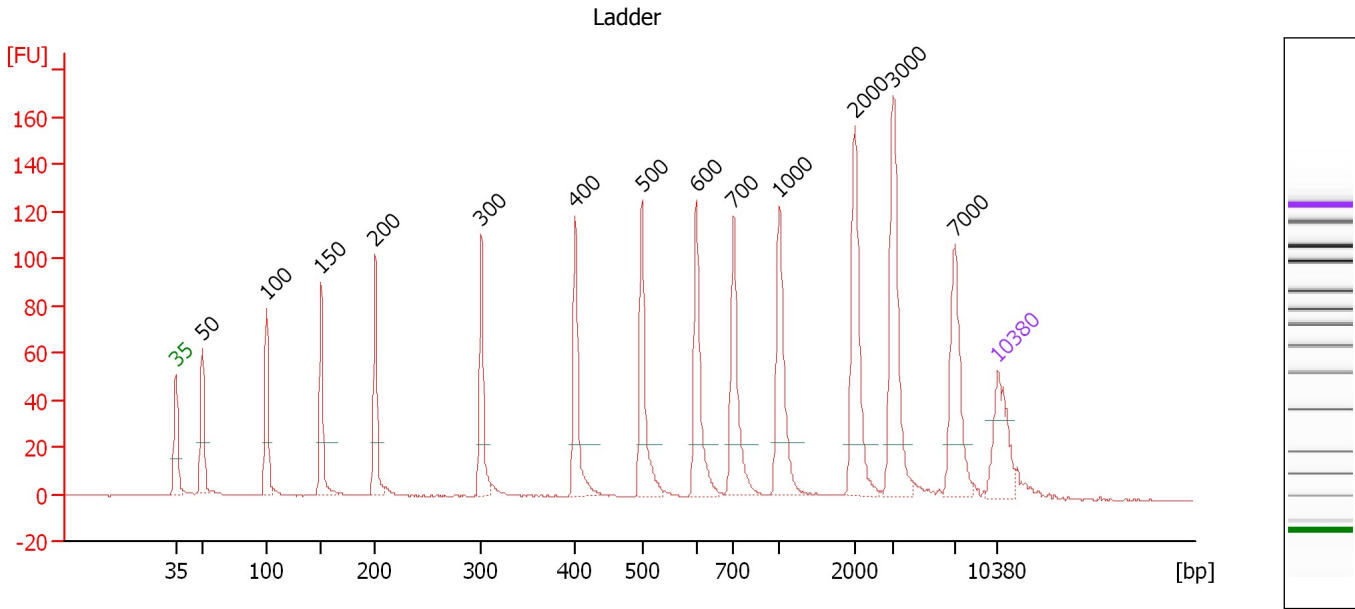
Ladder

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\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

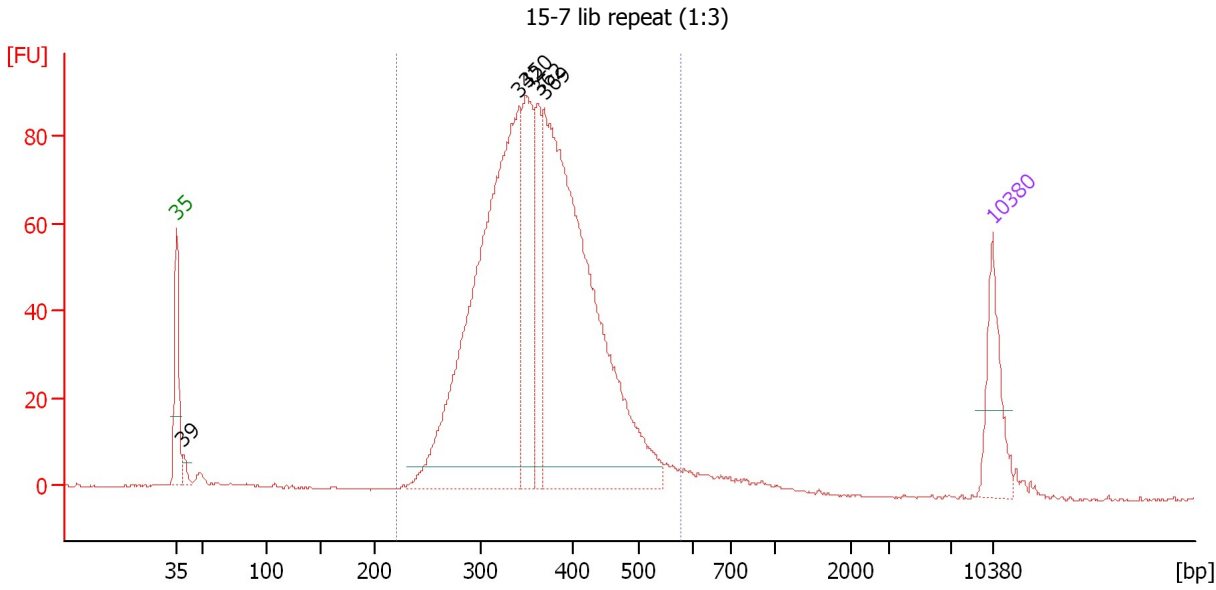
Peak table for Ladder

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.72
4	150	150.00	1,515.2	Ladder Peak	55.39
5	200	150.00	1,136.4	Ladder Peak	59.98
6	300	150.00	757.6	Ladder Peak	69.01
7	400	150.00	568.2	Ladder Peak	77.00
8	500	150.00	454.5	Ladder Peak	82.68
9	600	150.00	378.8	Ladder Peak	87.31
10	700	150.00	324.7	Ladder Peak	90.48
11	1,000	150.00	227.3	Ladder Peak	94.39
12	2,000	150.00	113.6	Ladder Peak	100.79
13	3,000	150.00	75.8	Ladder Peak	104.06
14	7,000	150.00	32.5	Ladder Peak	109.37
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 15-7 lib repeat (1:3)

Number of peaks found: 5 Corr. Area 1: 1,430.0
 Noise: 0.2

Peak table for sample 1 : 15-7 lib repeat (1:3)

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	39	16.92	658.4		43.59
3	342	900.57	3,985.1		72.40
4	350	223.65	968.6		72.99
5	362	134.14	560.8		74.00
6	369	937.11	3,844.8		74.55
7	10,380	75.00	10.9	Upper Marker	113.00

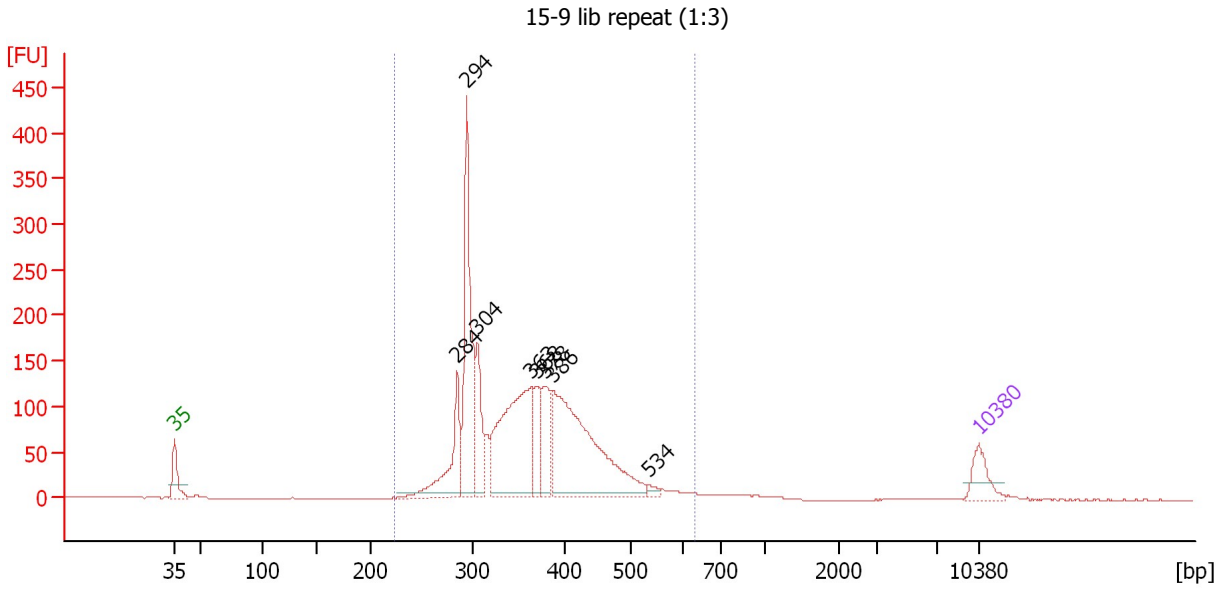
Region table for sample 1 : 15-7 lib repeat (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
221	365	577	1,430.0	94	16.6	2,268.25	9,742.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 15-9 lib repeat (1:3)

Number of peaks found: 8 Corr. Area 1: 2,397.1
 Noise: 0.1

Peak table for sample 2 : 15-9 lib repeat (1:3)

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	284	299.74	1,599.8		67.56
3	294	624.50	3,222.3		68.44
4	304	205.78	1,024.2		69.37
5	363	688.41	2,872.5		74.05
6	368	132.69	545.8		74.47
7	378	178.78	716.2		75.26
8	386	833.54	3,268.9		75.91
9	534	16.11	45.7		84.27
10	10,380	75.00	10.9	Upper Marker	113.00

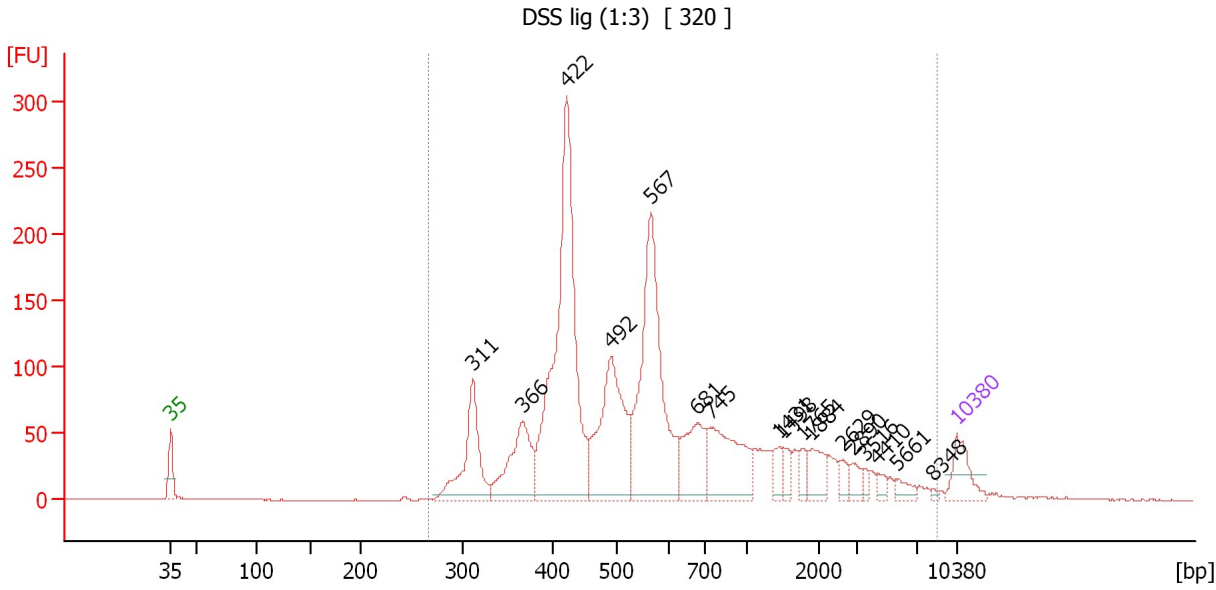
Region table for sample 2 : 15-9 lib repeat (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
224	362	631	2,397.1	98	18.7	3,179.67	13,908.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DSS lig (1:3)

Number of peaks found: 17 Corr. Area 1: 2,884.0
 Noise: 0.2

Peak table for sample 3 : DSS lig (1:3)

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	311	307.89	1,498.9		69.91
3	366	271.73	1,123.5		74.32
4	422	1,077.16	3,865.6		78.26
5	492	475.20	1,464.6		82.20
6	567	700.48	1,873.2		85.76
7	681	190.50	423.7		89.89
8	745	271.68	552.2		91.07
9	1,431	40.60	43.0		97.15
10	1,498	33.06	33.4		97.58
11	1,765	27.31	23.4		99.28
12	1,884	68.32	55.0		100.04
13	2,629	29.52	17.0		102.84
14	2,890	29.03	15.2		103.70
15	3,516	14.50	6.2		104.74
16	4,410	19.00	6.5		105.93
17	5,661	26.48	7.1		107.59
18	8,348	5.50	1.0		110.82
19	10,380	75.00	10.9	Upper Marker	113.00

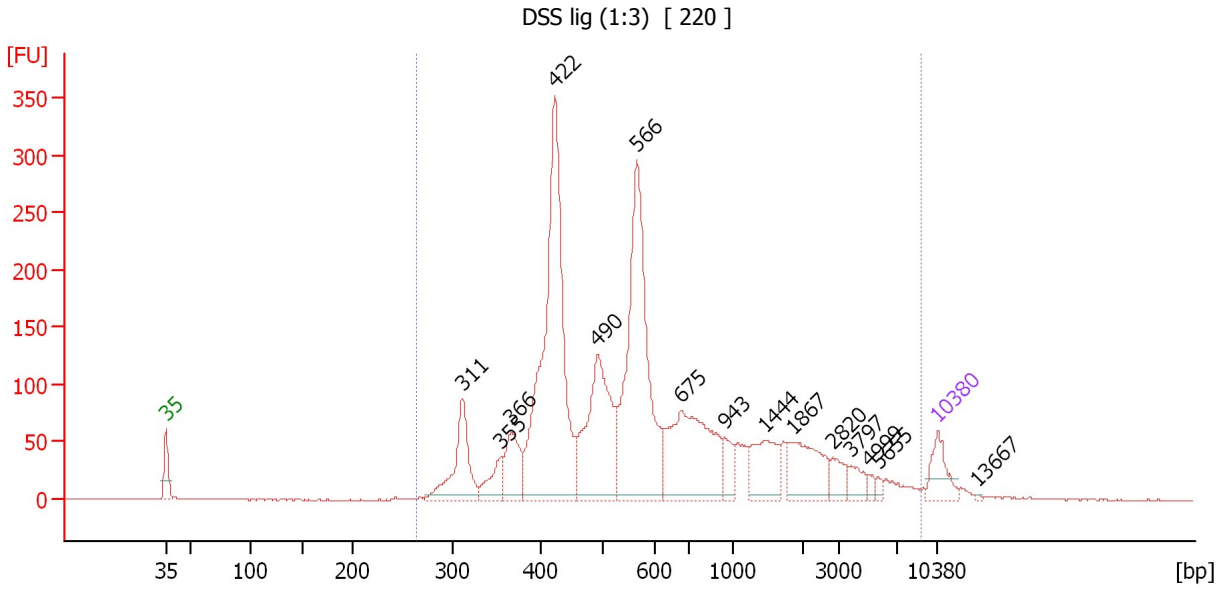
Region table for sample 3 : DSS lig (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
265	920	8,685	2,884.0	99	100.0	3,724.03	10,965.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DSS lig (1:3)

Number of peaks found: 15 Corr. Area 1: 3,488.9
 Noise: 0.4

Peak table for sample 4 : DSS lig (1:3)

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	311	269.66	1,313.4		69.90
3	355	93.90	401.1		73.38
4	366	159.02	658.0		74.30
5	422	1,125.71	4,039.0		78.27
6	490	503.81	1,556.3		82.14
7	566	831.06	2,226.1		85.72
8	675	470.49	1,056.4		89.68
9	943	63.64	102.2		93.65
10	1,444	147.45	154.7		97.23
11	1,867	165.88	134.6		99.94
12	2,820	50.46	27.1		103.47
13	3,797	42.46	16.9		105.11
14	4,999	13.77	4.2		106.71
15	5,655	12.16	3.3		107.58
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,667	0.00	0.0		116.53

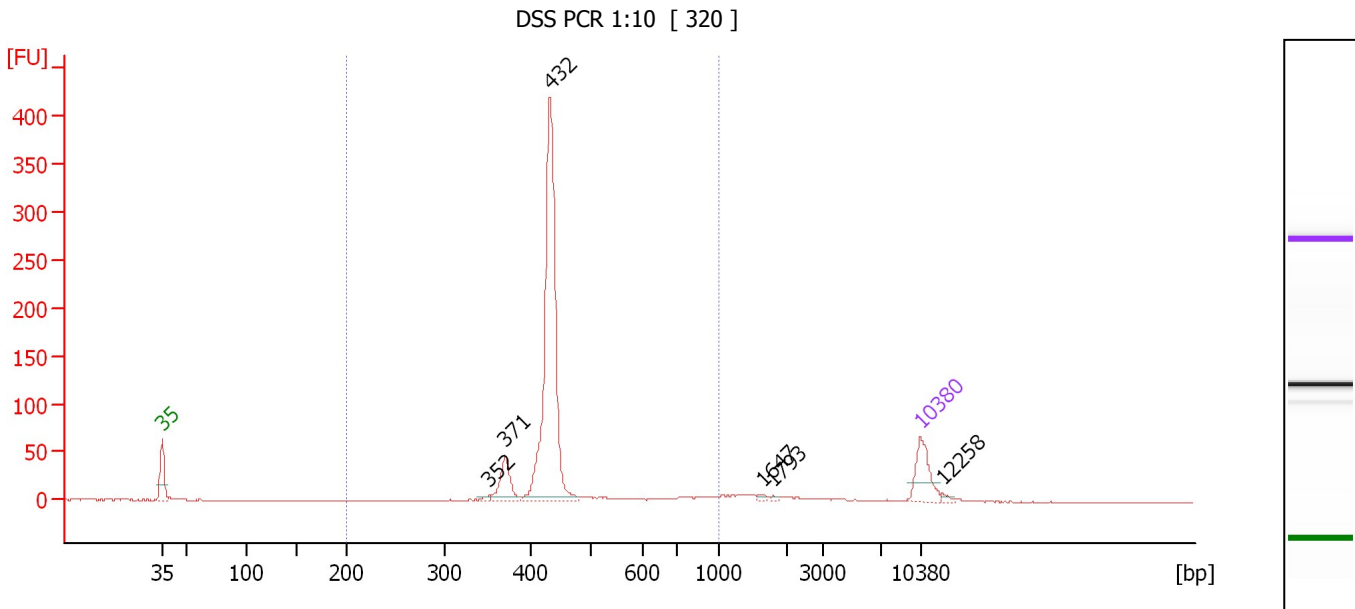
Region table for sample 4 : DSS lig (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
263	953	8,954	3,488.9	99	100.0	4,027.47	11,534.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DSS PCR 1:10

Number of peaks found: 6 Corr. Area 1: 771.9
 Noise: 0.4

Peak table for sample 5 : DSS PCR 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	352	7.30	31.4		73.18
3	371	87.66	358.4		74.65
4	432	756.14	2,649.9		78.84
5	1,647	5.44	5.0		98.53
6	1,793	3.76	3.2		99.46
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,258	0.00	0.0		115.02

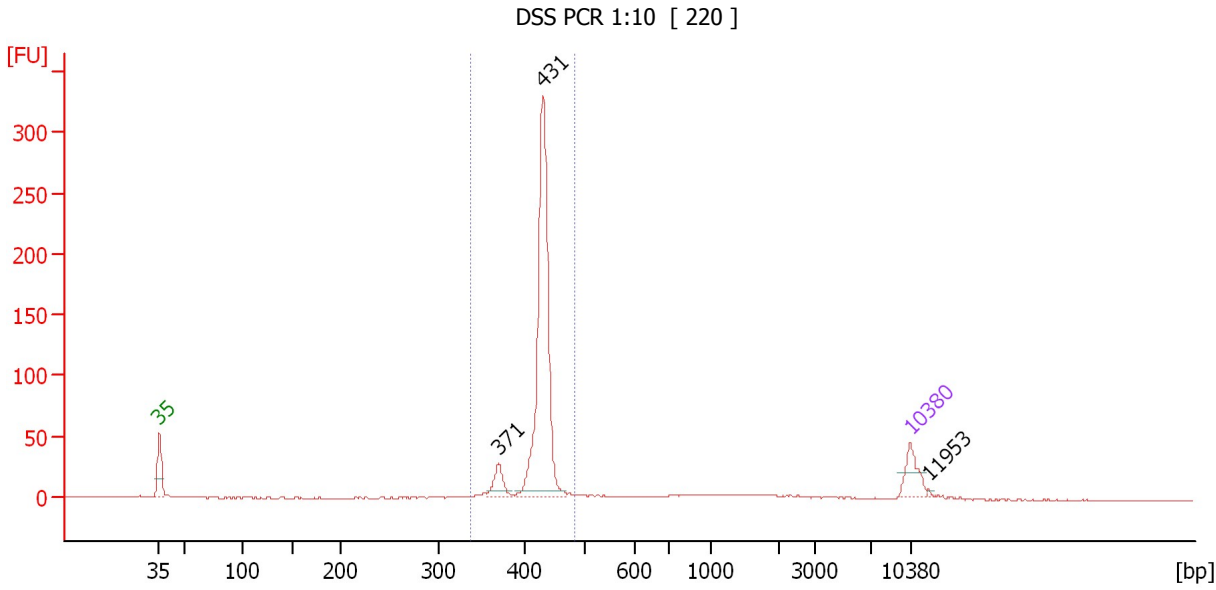
Region table for sample 5 : DSS PCR 1:10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	444	1,000	771.9	90	19.0	912.44	3,199.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : DSS PCR 1:10

Number of peaks found: 3 Corr. Area 1: 555.5
 Noise: 0.5

Peak table for sample 6 : DSS PCR 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	371	81.81	334.3		74.67
3	431	983.09	3,458.1		78.75
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,953	0.00	0.0		114.69

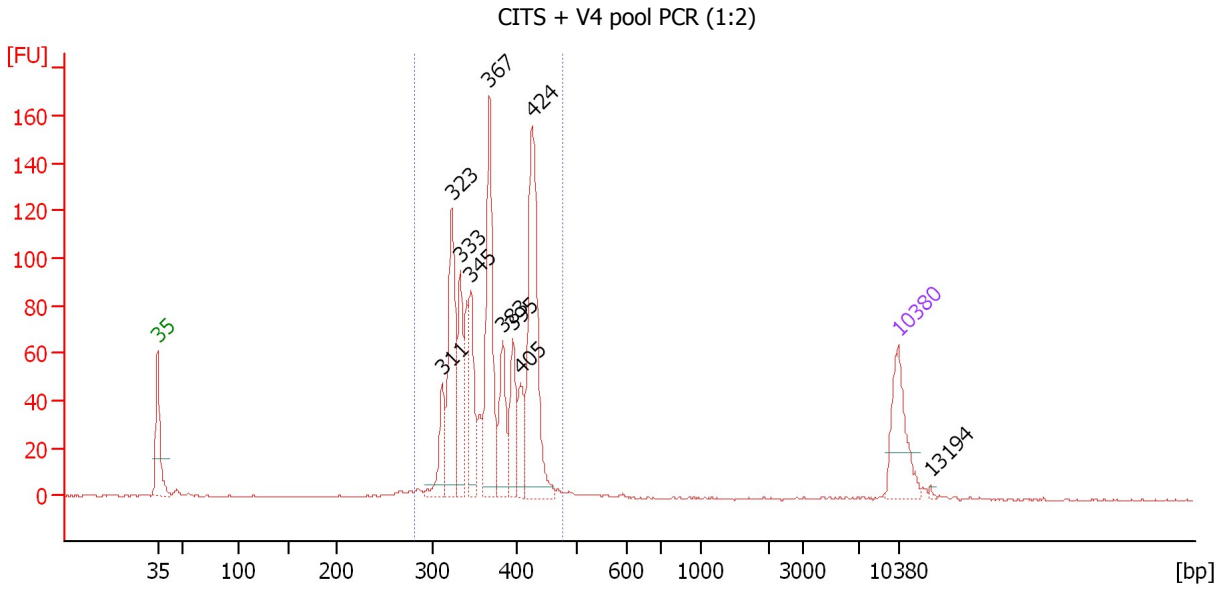
Region table for sample 6 : DSS PCR 1:10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
337	425	484	555.5	81	5.0	1,118.04	3,996.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CITS + V4 pool PCR (1:2)

Number of peaks found: 10 Corr. Area 1: 958.1
 Noise: 0.4

Peak table for sample 7 : CITS + V4 pool PCR (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	311	65.17	317.2		69.91
3	323	180.44	847.4		70.82
4	333	98.23	447.3		71.62
5	345	99.23	436.2		72.58
6	367	202.35	835.9		74.35
7	383	78.49	310.9		75.61
8	395	72.64	279.0		76.56
9	405	50.25	188.1		77.27
10	424	256.81	917.1		78.38
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,194	0.00	0.0		116.02

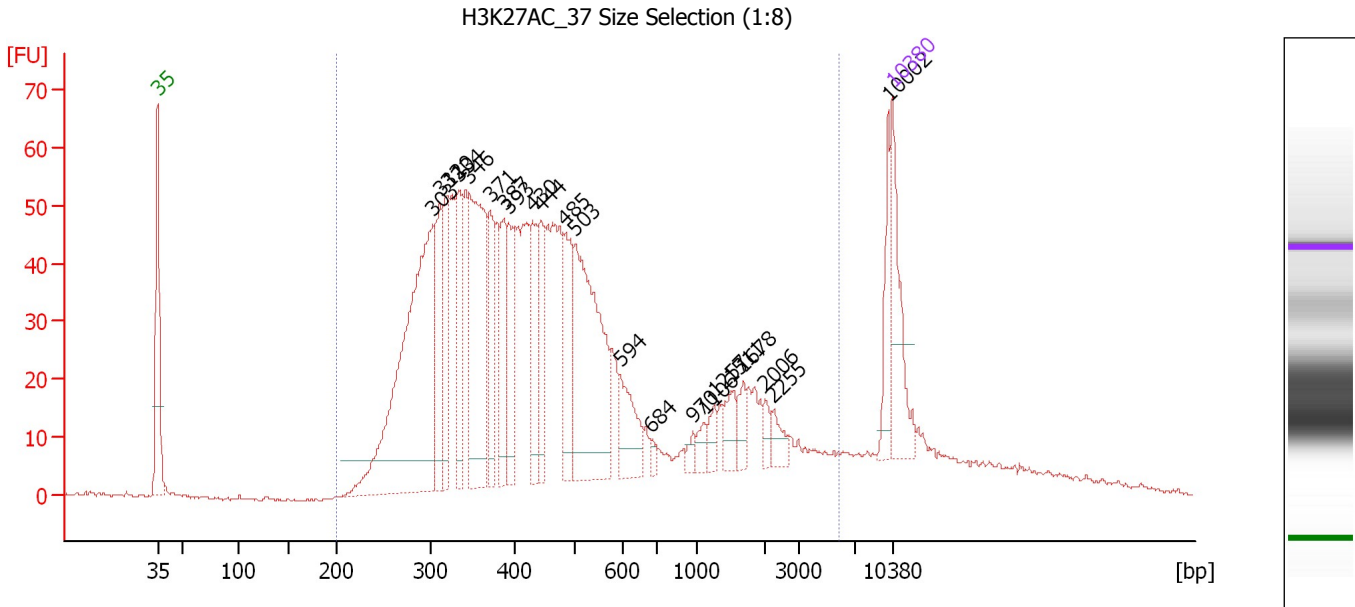
Region table for sample 7 : CITS + V4 pool PCR (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
280	371	474	958.1	95	10.9	1,193.38	4,932.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : H3K27AC 37 Size Selection (1:8)

Number of peaks found: 22 Corr. Area 1: 1,533.1
 Noise: 0.3


Peak table for sample 8 : H3K27AC 37 Size Selection (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	303	507.34	2,541.1		69.21
3	311	96.13	468.7		69.87
4	320	97.79	462.6		70.63
5	334	96.56	438.5		71.70
6	346	234.60	1,026.2		72.72
7	371	87.26	356.8		74.65
8	387	82.02	321.1		75.97
9	393	79.56	306.9		76.43
10	430	82.01	288.9		78.71
11	444	70.33	239.8		79.52
12	485	93.34	291.8		81.81
13	503	253.15	762.2		82.83
14	594	60.59	154.5		87.04
15	684	7.38	16.3		89.99
16	970	9.16	14.3		94.00
17	1,106	12.70	17.4		95.07
18	1,257	14.42	17.4		96.03
19	1,511	25.99	26.1		97.66
20	1,678	17.55	15.8		98.73
21	2,006	10.67	8.1		100.81
22	2,255	15.93	10.7		101.62
23	10,002	41.11	6.2		112.59
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
Modified: 2/2/2015 3:27:47 PM

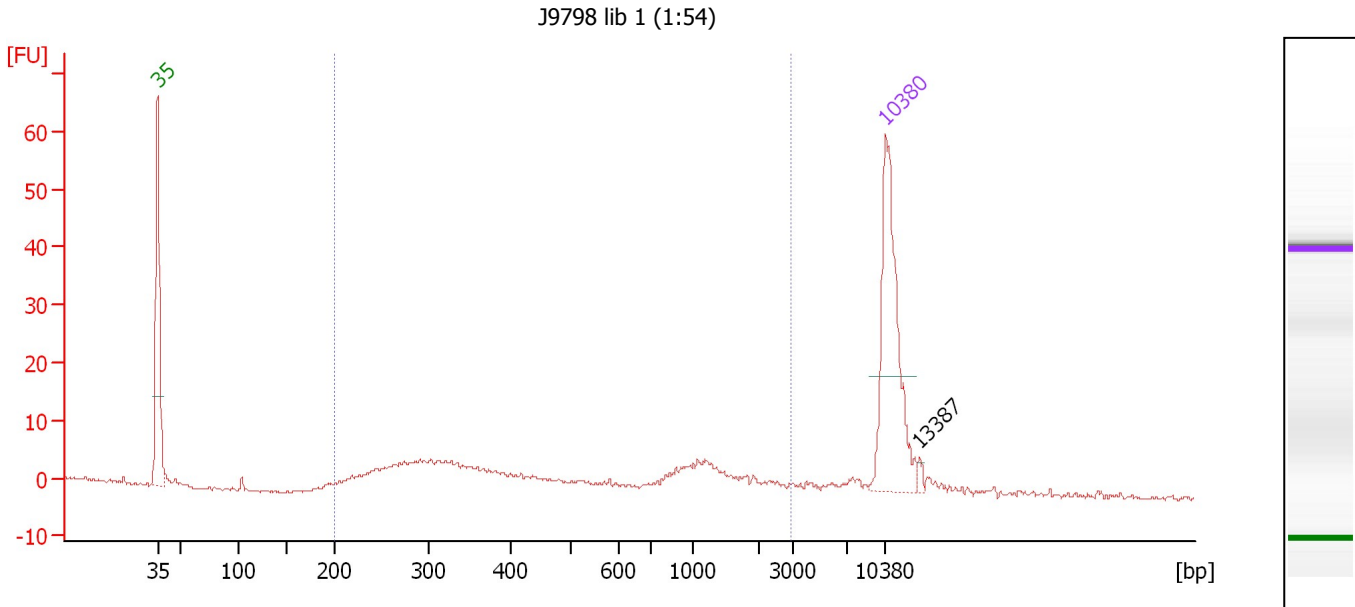
Electropherogram Summary Continued ...**... Region table for sample 8 : H3K27AC 37 Size Selection (1:8)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	677	5,935	1,533.1	92	100.0	2,872.38	10,765.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : J9798 lib 1 (1:54)

Number of peaks found: 1 Corr. Area 1: 114.6
 Noise: 0.2

Peak table for sample 9 : J9798 lib 1 (1:54)

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
3	13,387	0.00	0.0		116.23

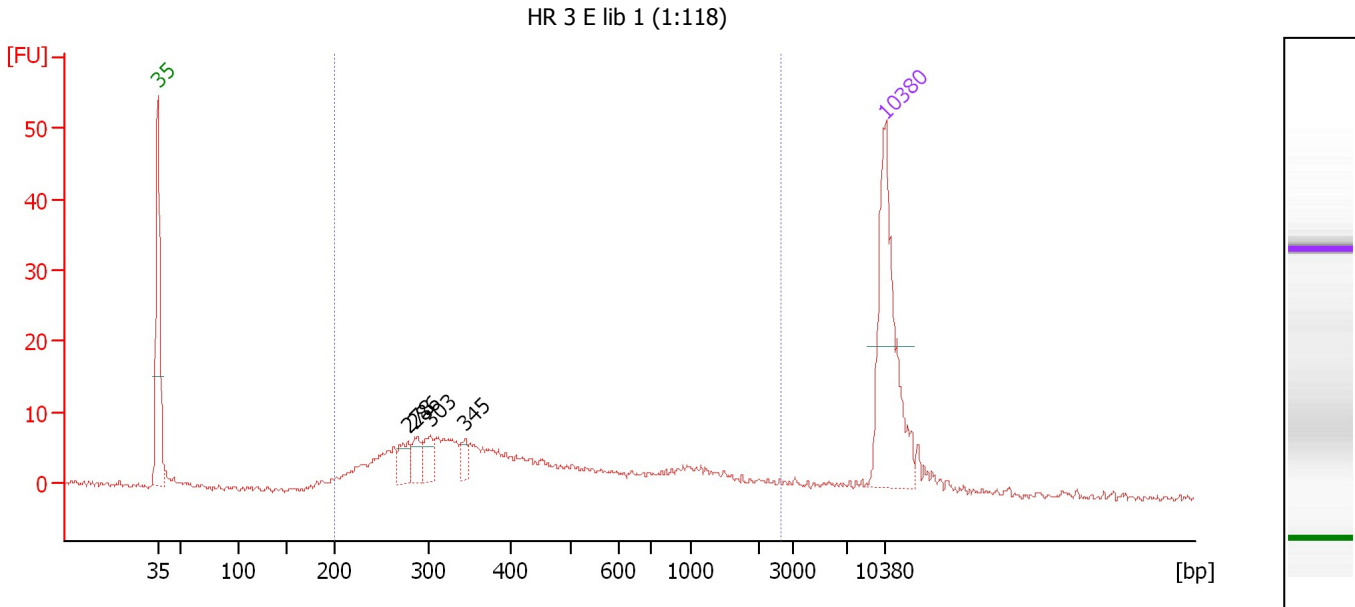
Region table for sample 9 : J9798 lib 1 (1:54)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	723	2,953	114.6	85	81.0	124.94	487.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HR 3 E lib 1 (1:118)

Number of peaks found: 4 Corr. Area 1: 195.7
 Noise: 0.5

Peak table for sample 10 : HR 3 E lib 1 (1:118)

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	16.00	87.0		67.07
3	286	12.67	67.1		67.74
4	303	14.31	71.5		69.28
5	345	8.18	35.9		72.61
6	10,380	75.00	10.9	Upper Marker	113.00

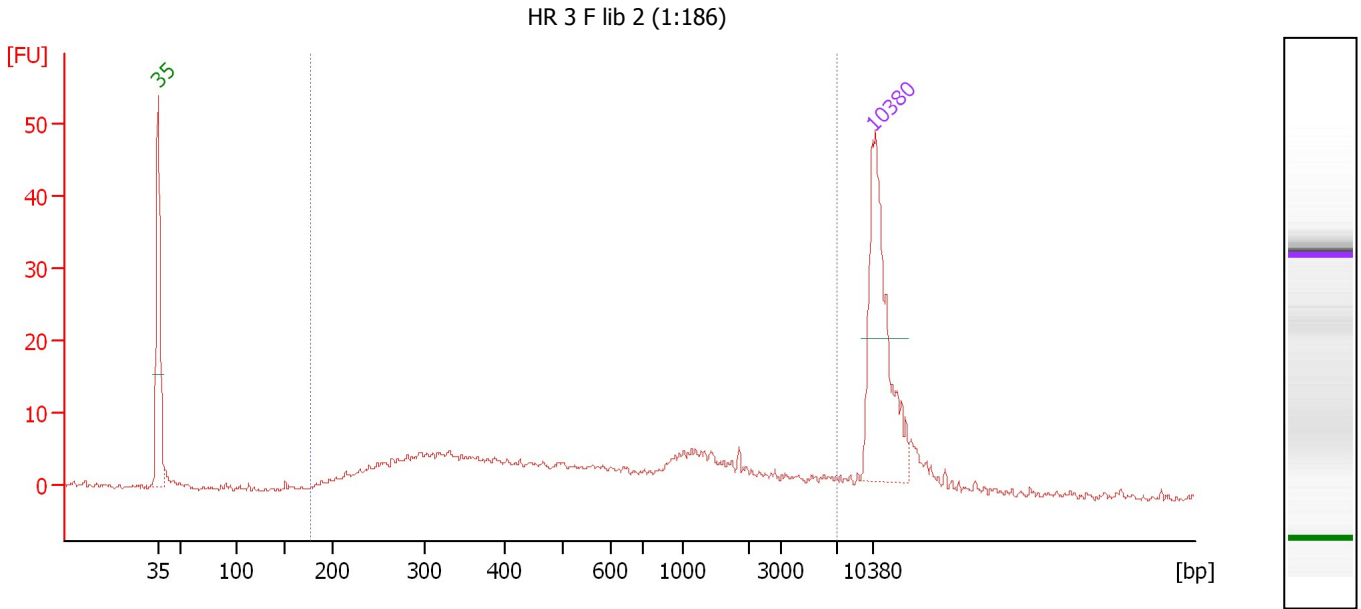
Region table for sample 10 : HR 3 E lib 1 (1:118)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	540	2,653	195.7	90	78.3	257.36	1,076.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
 Modified: 2/2/2015 3:27:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HR 3 F lib 2 (1:186)

Number of peaks found: 0 Corr. Area 1: 195.4
 Noise: 0.3

Peak table for sample 11 : HR 3 F lib 2 (1:186)

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

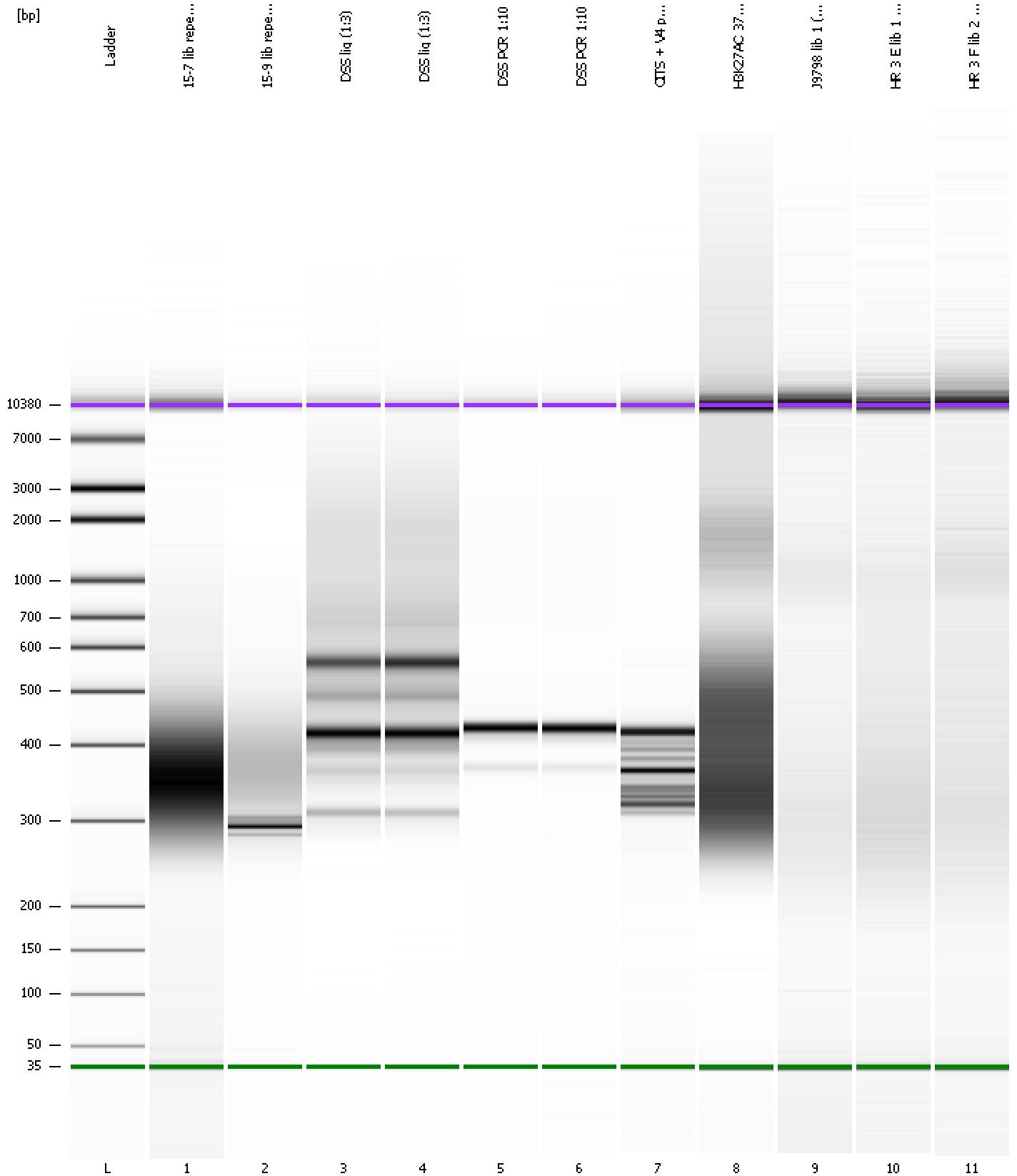
Region table for sample 11 : HR 3 F lib 2 (1:186)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	1,036	7,107	195.4	89	100.0	231.42	817.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad

Created: 2/2/2015 2:45:07 PM
Modified: 2/2/2015 3:27:47 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 2/2/2015 2:45:07 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad Modified: 2/2/2015 3:27:47 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		2/2/2015 3:25:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-02\2015-02-02_005.xad)		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/2/2015 2:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1