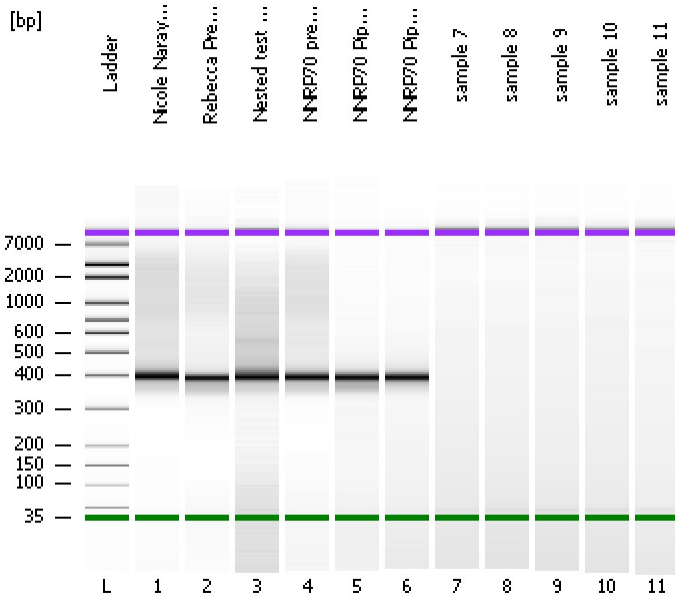


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
Modified: 2/5/2016 1:00:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

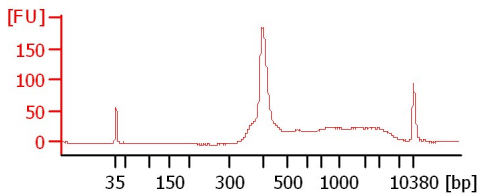
Assay Information:

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

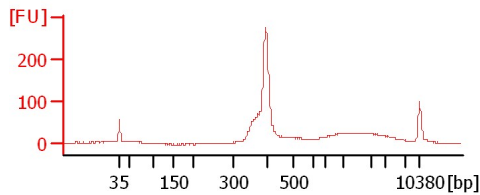
Chip Information:

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

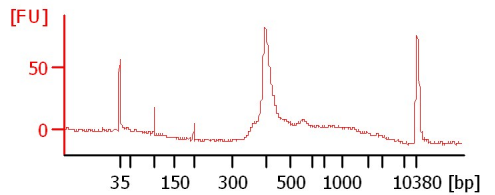
Nicole Narayan 46 pool



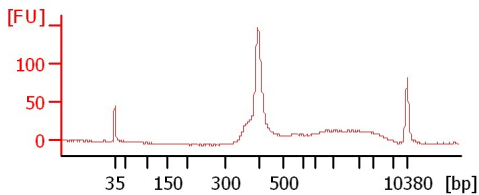
Rebecca Prescott 24 pool



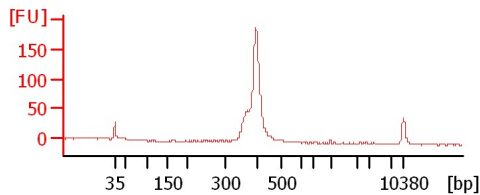
Nested test pool



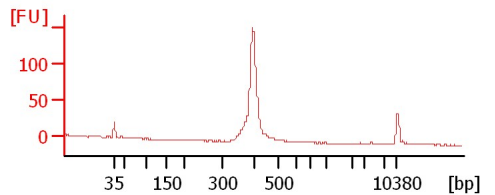
NNRP70 pre pippin



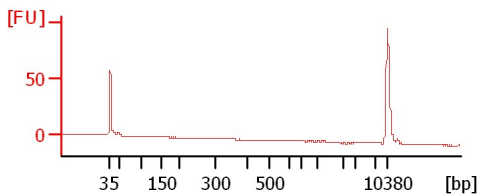
NNRP70 Pippin 2



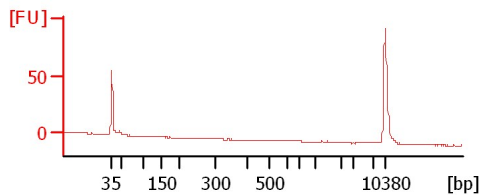
NNRP70 Pippin 1



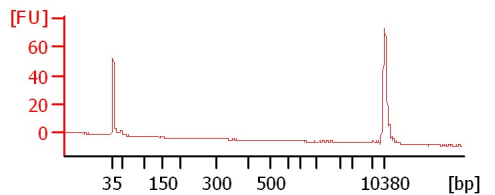
sample 7



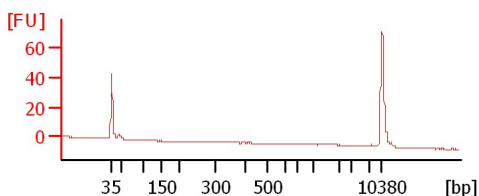
sample 8



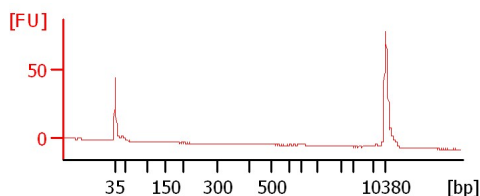
sample 9



sample 10



sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nicole Narayan 46 pool		<input type="checkbox"/>	✓			
Rebecca Prescott 24 pool		<input type="checkbox"/>	✓			
Nested test pool		<input type="checkbox"/>	✓			
NNRP70 pre pippin		<input type="checkbox"/>	✓			
NNRP70 Pippin 2		<input type="checkbox"/>	✓			
NNRP70 Pippin 1		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<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\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 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

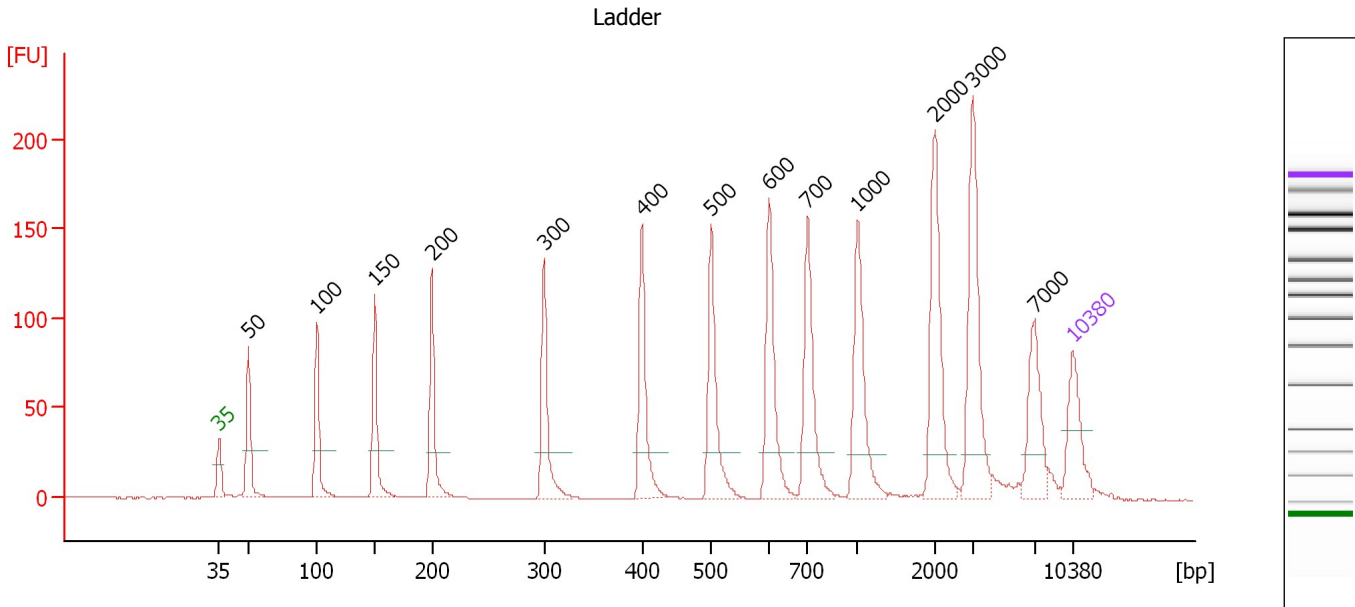
Ladder

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\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

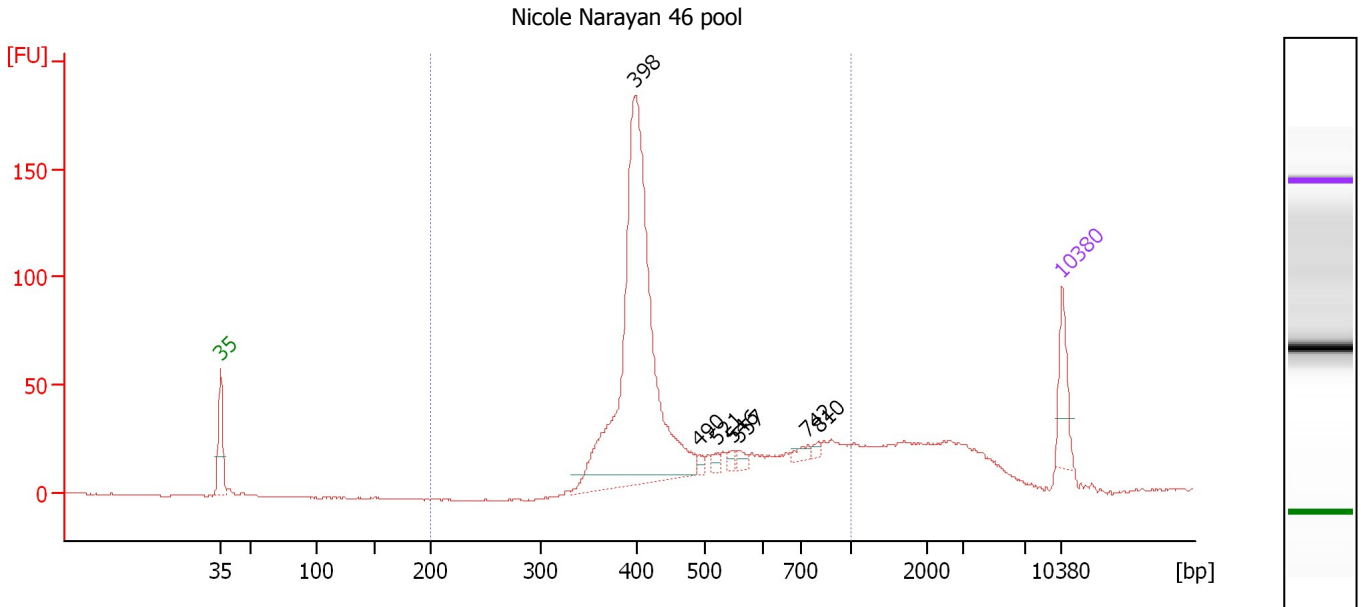
Peak table for Ladder

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	45.40
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.77
5	200	150.00	1,136.4	Ladder Peak	60.45
6	300	150.00	757.6	Ladder Peak	69.63
7	400	150.00	568.2	Ladder Peak	77.67
8	500	150.00	454.5	Ladder Peak	83.36
9	600	150.00	378.8	Ladder Peak	88.12
10	700	150.00	324.7	Ladder Peak	91.27
11	1,000	150.00	227.3	Ladder Peak	95.38
12	2,000	150.00	113.6	Ladder Peak	101.72
13	3,000	150.00	75.8	Ladder Peak	104.82
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Nicole Narayan 46 pool

Number of peaks found: 7 Corr. Area 1: 974.4
 Noise: 0.3

Peak table for sample 1 : Nicole Narayan 46 pool

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	398	1,190.55	4,532.2		77.51
3	490	12.38	38.3		82.79
4	521	13.12	38.2		84.34
5	546	14.56	40.4		85.54
6	557	15.25	41.5		86.07
7	742	16.59	33.9		91.84
8	810	11.02	20.6		92.77
9	10,380	75.00	10.9	Upper Marker	113.00

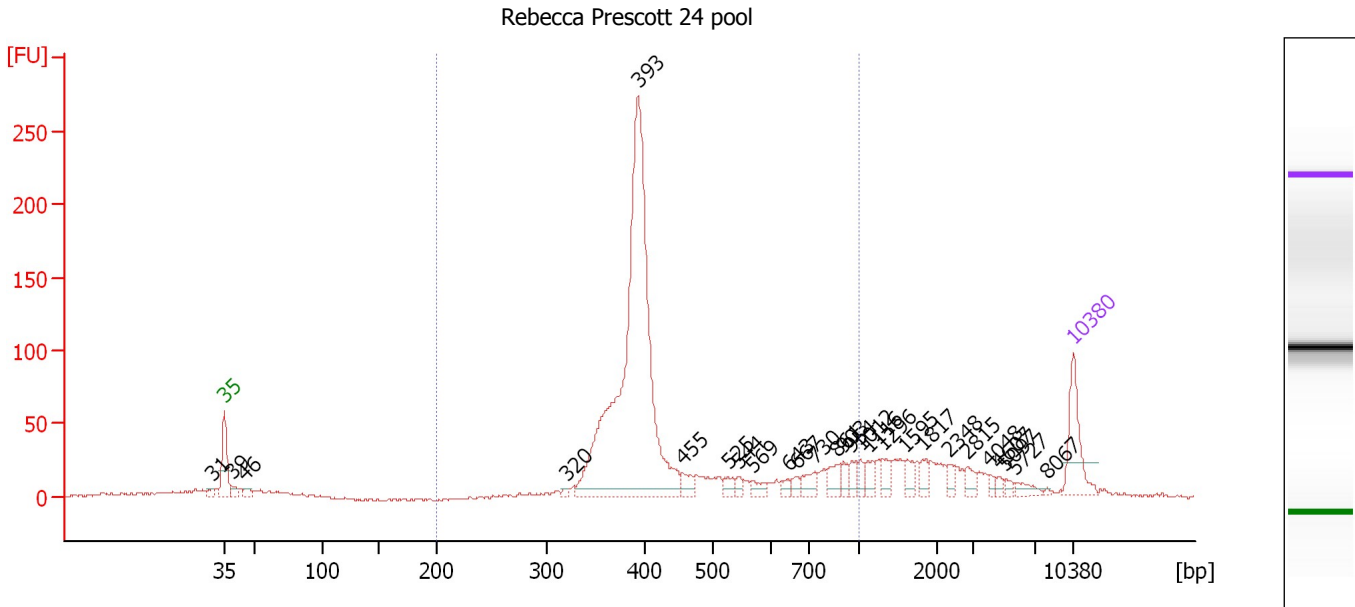
Region table for sample 1 : Nicole Narayan 46 pool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	491	974.4	5,824.0	1,721.34	78	31.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Rebecca Prescott 24 pool

Number of peaks found: 27 Corr. Area 1: 1,148.3
 Noise: 1.1

Peak table for sample 2 : Rebecca Prescott 24 pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.99
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	15.46	602.9		43.62
4	46	17.11	567.3		44.71
5	320	6.28	29.8		71.23
6	393	1,064.04	4,100.7		77.12
7	455	25.37	84.6		80.77
8	525	16.36	47.2		84.55
9	544	11.14	31.0		85.43
10	569	16.77	44.6		86.66
11	643	11.95	28.2		89.48
12	667	12.14	27.6		90.22
13	730	26.12	54.3		91.67
14	861	26.84	47.2		93.48
15	903	17.69	29.7		94.05
16	954	15.74	25.0		94.75
17	1,012	14.38	21.5		95.46
18	1,116	20.43	27.7		96.12
19	1,296	20.96	24.5		97.26
20	1,595	18.11	17.2		99.15
21	1,817	17.33	14.5		100.56
22	2,348	11.34	7.3		102.80
23	2,815	14.38	7.7		104.25
24	4,048	6.73	2.5		106.14
25	4,607	7.53	2.5		106.84

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

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 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : Rebecca Prescott 24 pool

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,097	7.01	2.1		107.46
27	5,727	13.58	3.6		108.25
28	8,067	2.13	0.4		110.85
29	10,380	75.00	10.9	Upper Marker	113.00

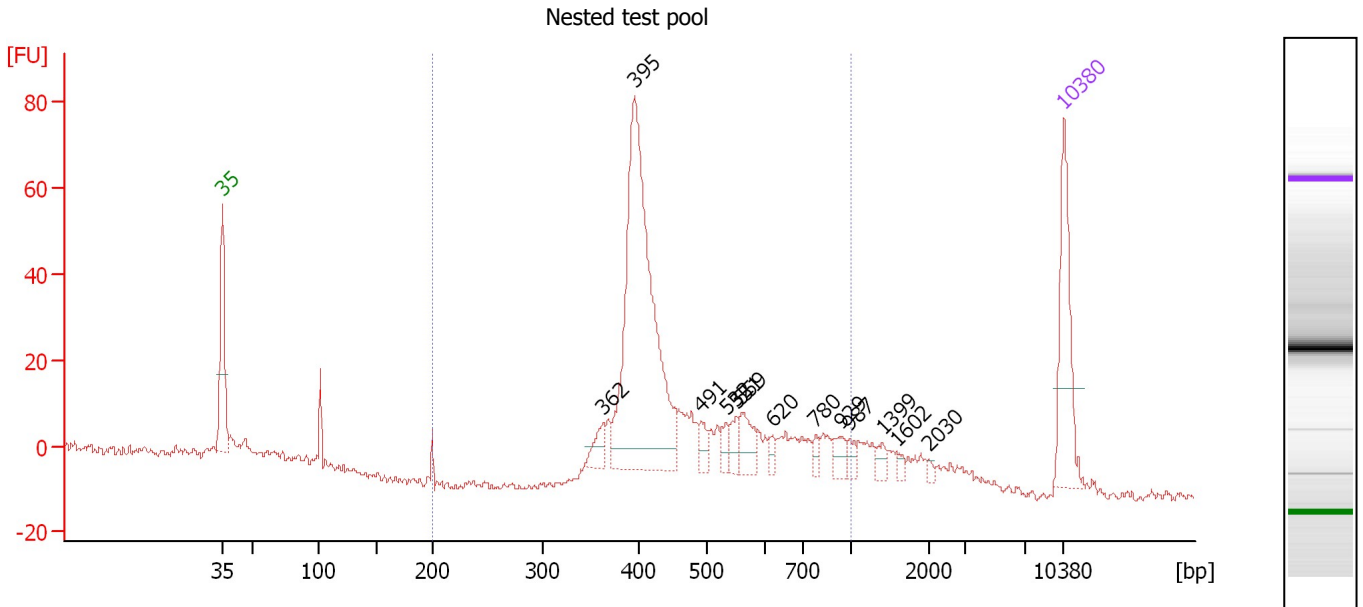
Region table for sample 2 : Rebecca Prescott 24 pool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	456	1,148.3	5,021.4	1,384.72	75	32.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nested test pool

Number of peaks found: 13 Corr. Area 1: 486.5
 Noise: 0.8

Peak table for sample 3 : Nested test pool

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	22.24	93.0		74.65
3	395	409.96	1,572.7		77.27
4	491	15.29	47.2		82.86
5	532	12.16	34.6		84.90
6	551	15.01	41.3		85.79
7	559	28.83	78.1		86.19
8	620	8.25	20.1		88.76
9	780	7.65	14.9		92.36
10	929	14.60	23.8		94.40
11	987	8.31	12.8		95.20
12	1,399	8.53	9.2		97.91
13	1,602	4.67	4.4		99.20
14	2,030	3.65	2.7		101.81
15	10,380	75.00	10.9	Upper Marker	113.00

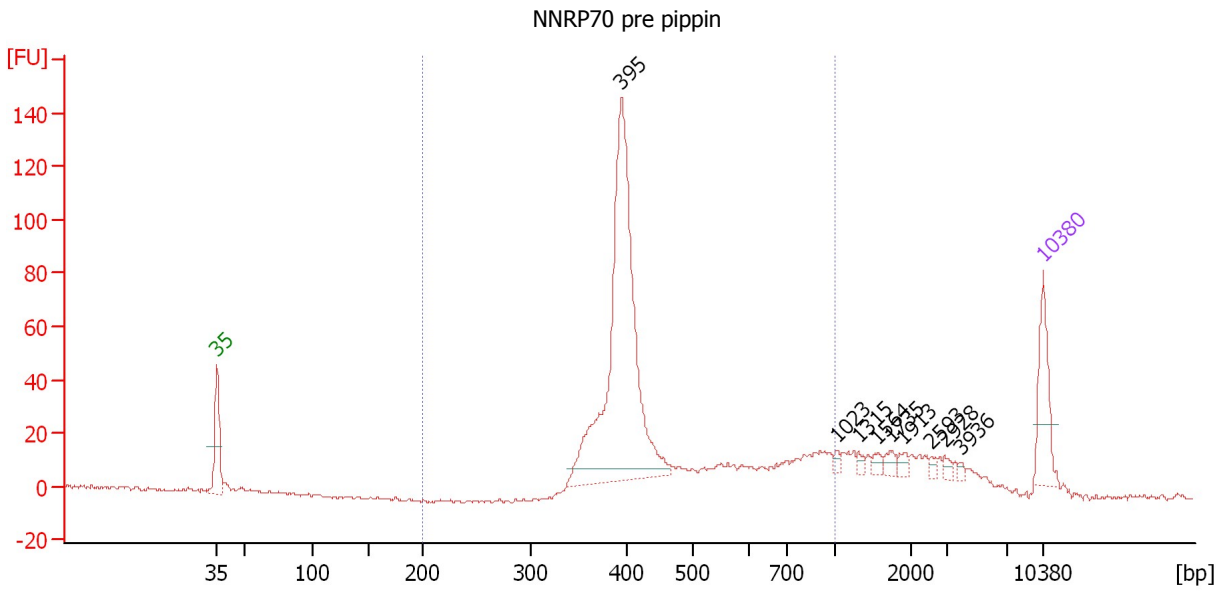
Region table for sample 3 : Nested test pool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	492	486.5	2,279.9	679.04	85	29.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : NNRP70 pre pippin

Number of peaks found: 9 Corr. Area 1: 665.8
 Noise: 0.5

Peak table for sample 4 : NNRP70 pre pippin

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	395	727.87	2,791.3		77.28
3	1,023	6.50	9.6		95.52
4	1,315	7.63	8.8		97.37
5	1,564	9.38	9.1		98.95
6	1,735	11.88	10.4		100.04
7	1,913	10.45	8.3		101.17
8	2,593	5.88	3.4		103.56
9	2,928	8.04	4.2		104.60
10	3,936	4.68	1.8		106.00
11	10,380	75.00	10.9	Upper Marker	113.00

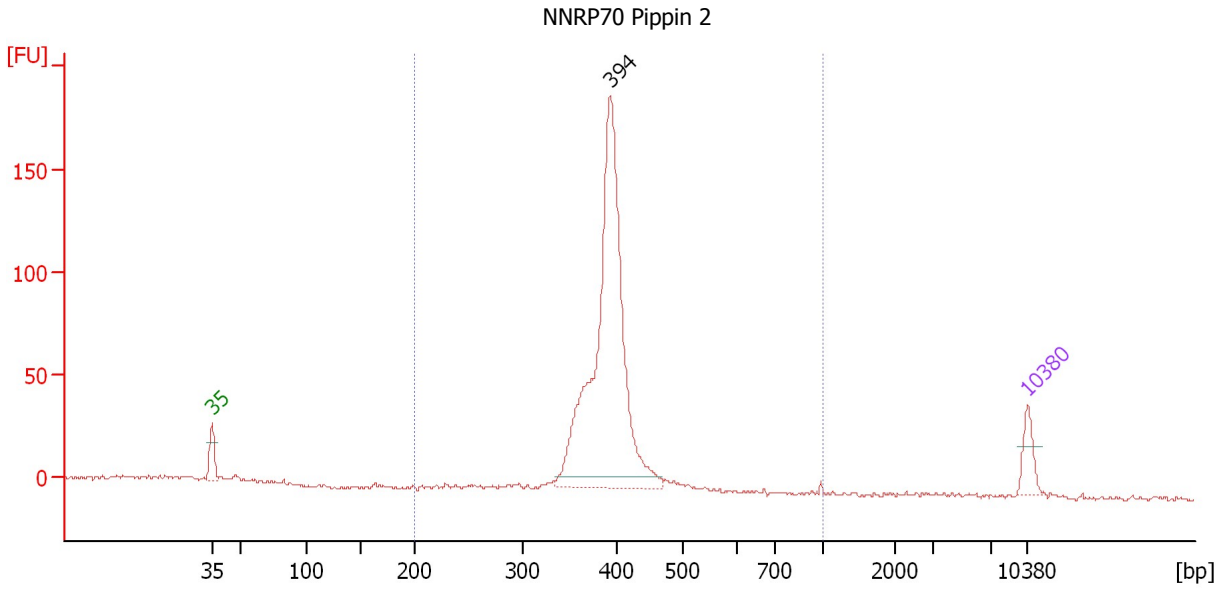
Region table for sample 4 : NNRP70 pre pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	480	665.8	3,717.0	1,071.73	77	32.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NNRP70 Pippin 2

Number of peaks found: 1 Corr. Area 1: 672.7
 Noise: 0.8

Peak table for sample 5 : NNRP70 Pippin 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	394	1,794.07	6,907.1		77.15
3	10,380	75.00	10.9	Upper Marker	113.00

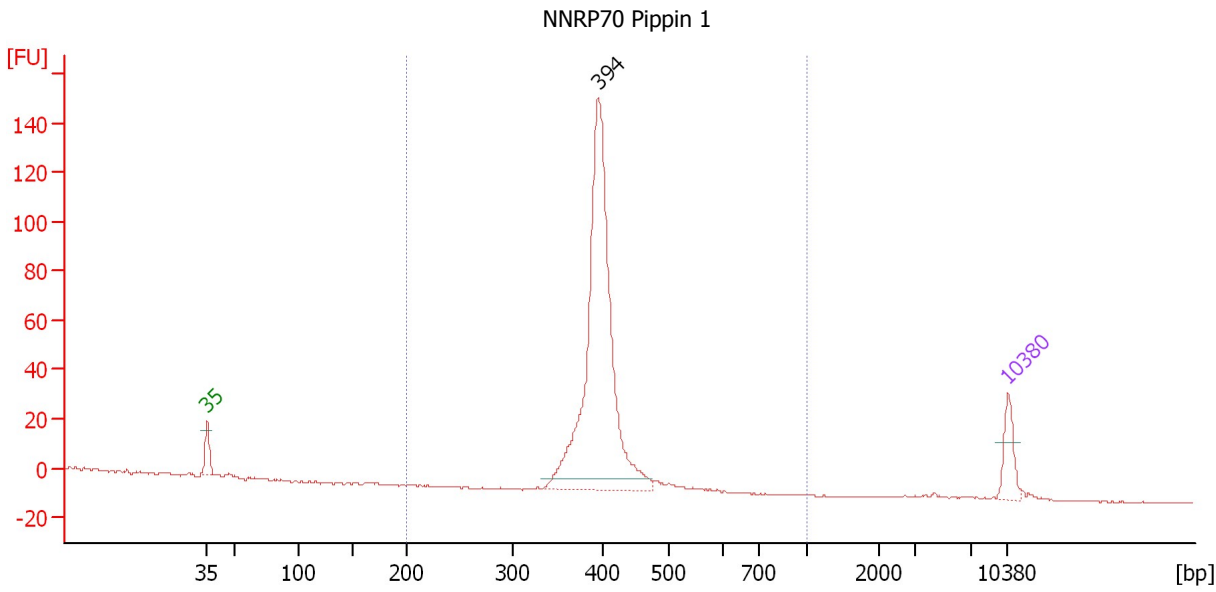
Region table for sample 5 : NNRP70 Pippin 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	395	672.7	7,359.6	1,903.15	91	9.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NNRP70 Pippin 1

Number of peaks found: 1 Corr. Area 1: 458.2
 Noise: 0.2

Peak table for sample 6 : NNRP70 Pippin 1

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	394	1,382.68	5,318.1		77.18
3	10,380	75.00	10.9	Upper Marker	113.00

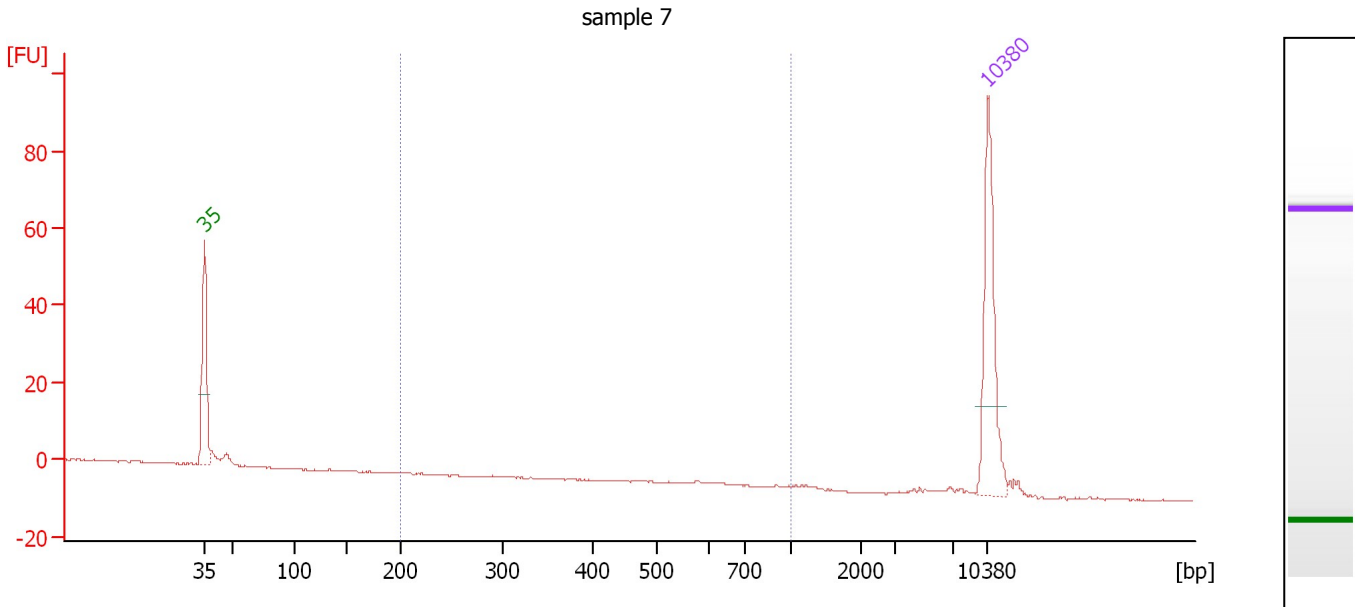
Region table for sample 6 : NNRP70 Pippin 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	397	458.2	5,032.3	1,316.38	99	5.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 0 Corr. Area 1: 0.6
 Noise: 0.2

Peak table for sample 7 : sample 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	10,380	75.00	10.9	Upper Marker	113.00

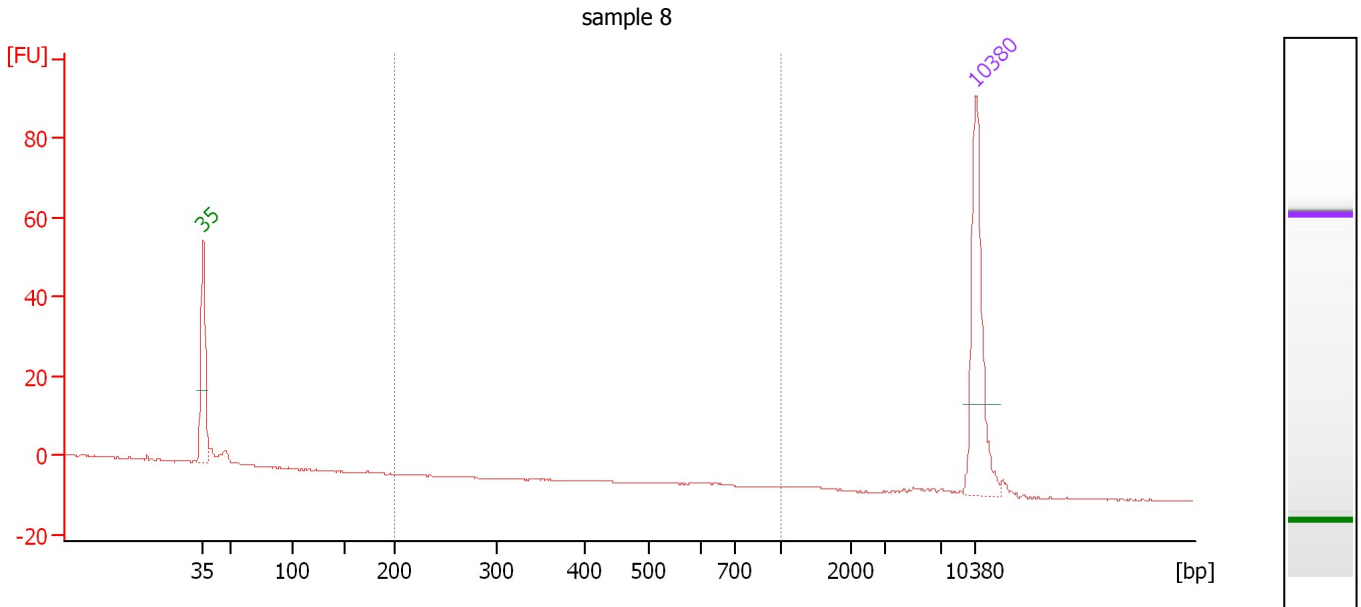
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	601	0.6	1.5	0.59	4	9.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 8 : sample 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	10,380	75.00	10.9	Upper Marker	113.00

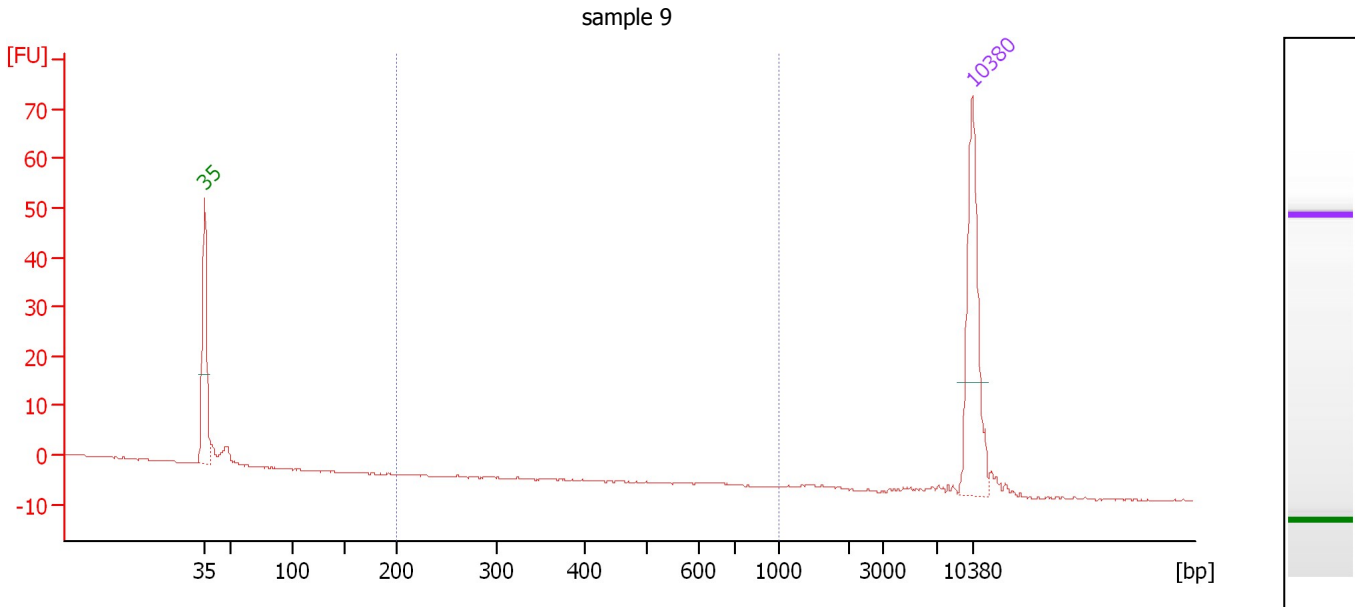
Region table for sample 8 : sample 8

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 9 : sample 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	10,380	75.00	10.9	Upper Marker	113.00

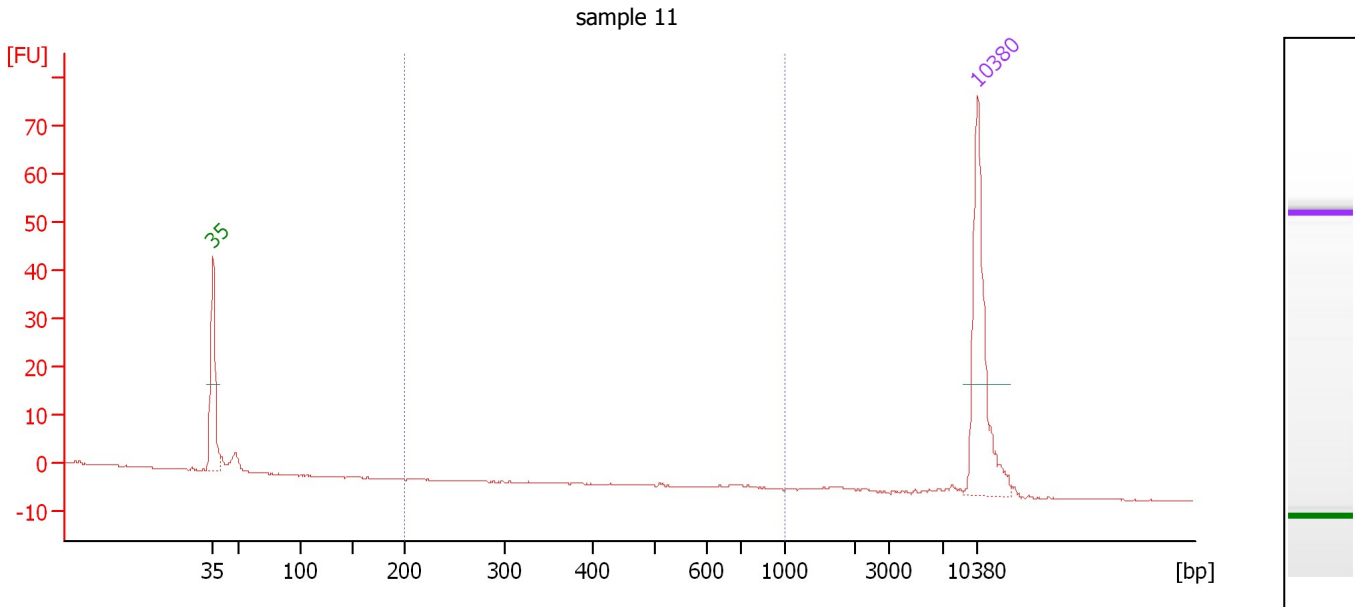
Region table for sample 9 : sample 9

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Corr. Area 1: 0.1
 Noise: 0.1

Peak table for sample 11 : sample 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	10,380	75.00	10.9	Upper Marker	113.00

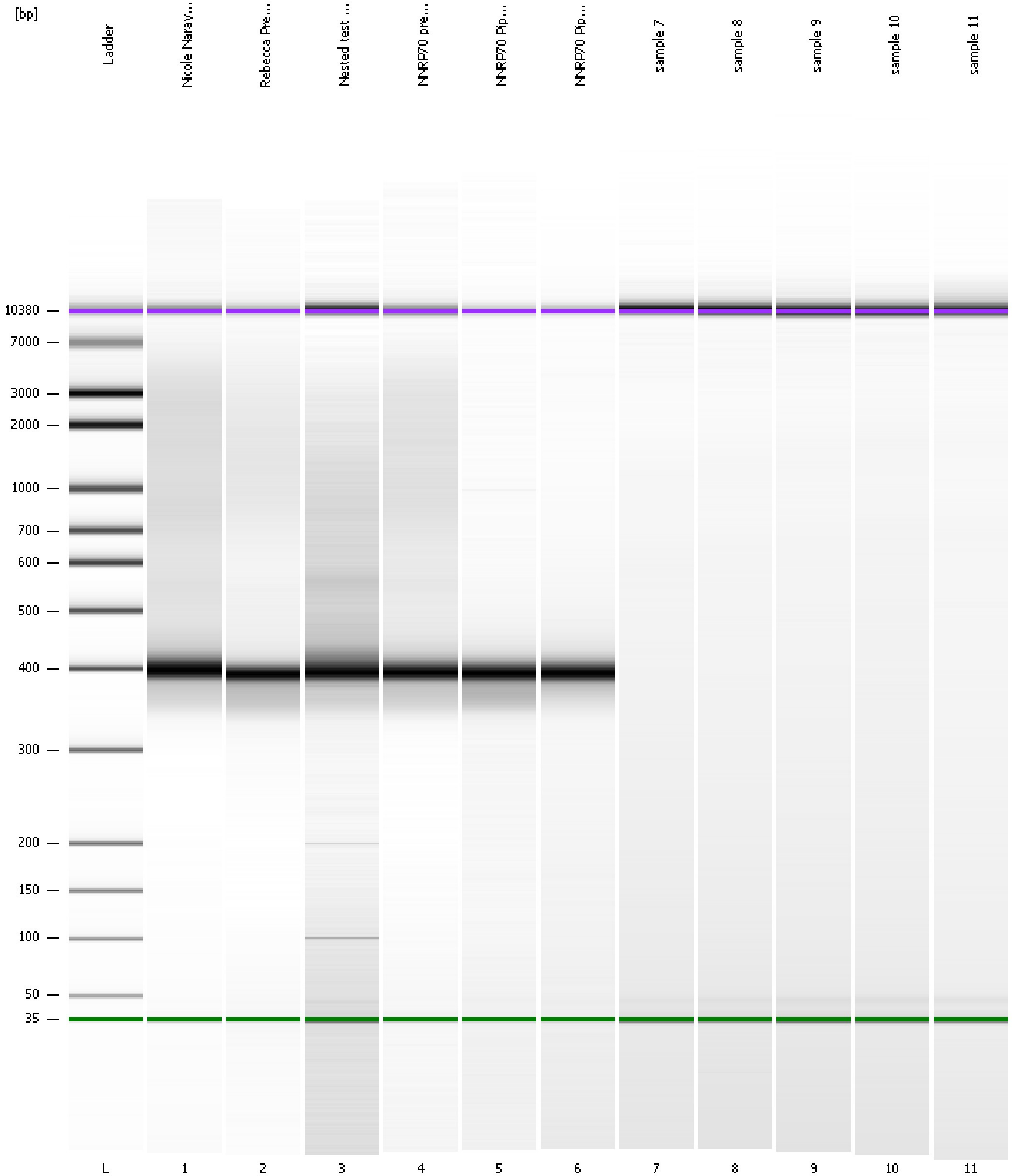
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	658	0.1	0.4	0.16	1	10.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
Modified: 2/5/2016 1:00:47 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad

Created: 2/5/2016 12:19:27 PM
 Modified: 2/5/2016 1:00:47 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		2/5/2016 1:00:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-05\2016-02-05_001.xad)		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/5/2016 12:19:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1