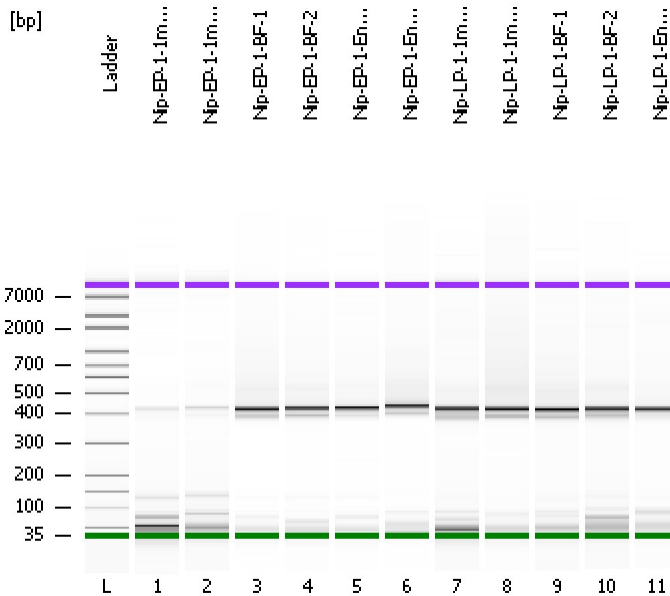


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
Modified: 7/30/2012 2:20:12 PM

Electrophoresis File Run Summary



Instrument Information:

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

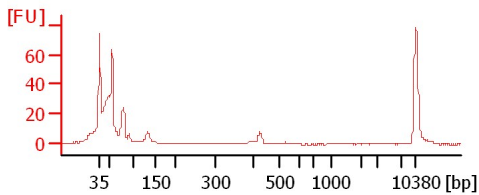
Assay Information:

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

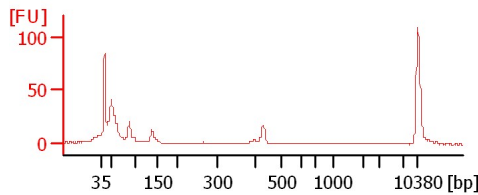
Chip Information:

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

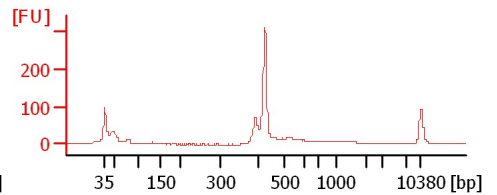
Nip-EP-1-1mm-1



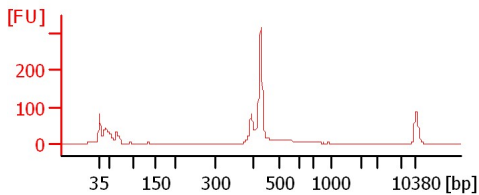
Nip-EP-1-1mm-2



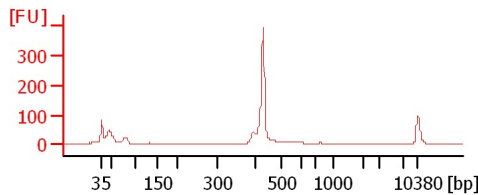
Nip-EP-1-BF-1



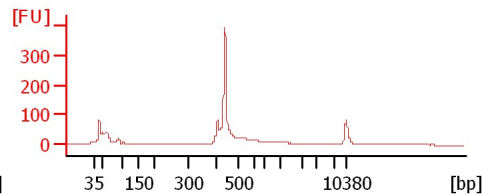
Nip-EP-1-BF-2



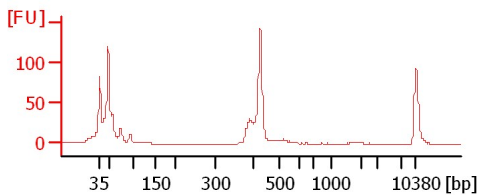
Nip-EP-1-Endo-1



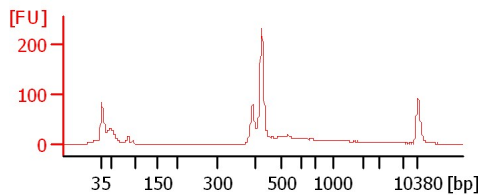
Nip-EP-1-Endo-2



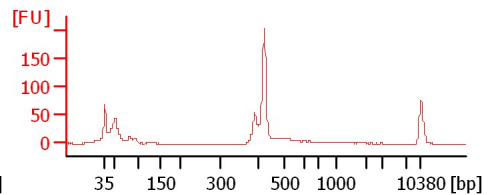
Nip-LP-1-1mm-1



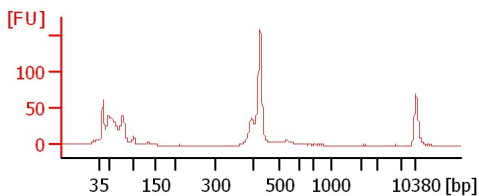
Nip-LP-1-1mm-2



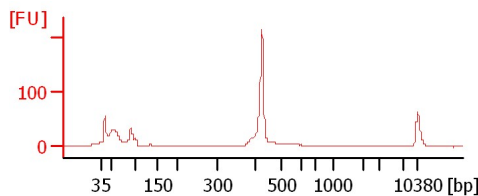
Nip-LP-1-BF-1



Nip-LP-1-BF-2



Nip-LP-1-Endo-1



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
Modified: 7/30/2012 2:20:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nip-EP-1-1mm-1		<input type="checkbox"/>	✓			
Nip-EP-1-1mm-2		<input type="checkbox"/>	✓			
Nip-EP-1-BF-1		<input type="checkbox"/>	✓			
Nip-EP-1-BF-2		<input type="checkbox"/>	✓			
Nip-EP-1-Endo-1		<input type="checkbox"/>	✓			
Nip-EP-1-Endo-2		<input type="checkbox"/>	✓			
Nip-LP-1-1mm-1		<input type="checkbox"/>	✓			
Nip-LP-1-1mm-2		<input type="checkbox"/>	✓			
Nip-LP-1-BF-1		<input type="checkbox"/>	✓			
Nip-LP-1-BF-2		<input type="checkbox"/>	✓			
Nip-LP-1-Endo-1		<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\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
Modified: 7/30/2012 2:20:12 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

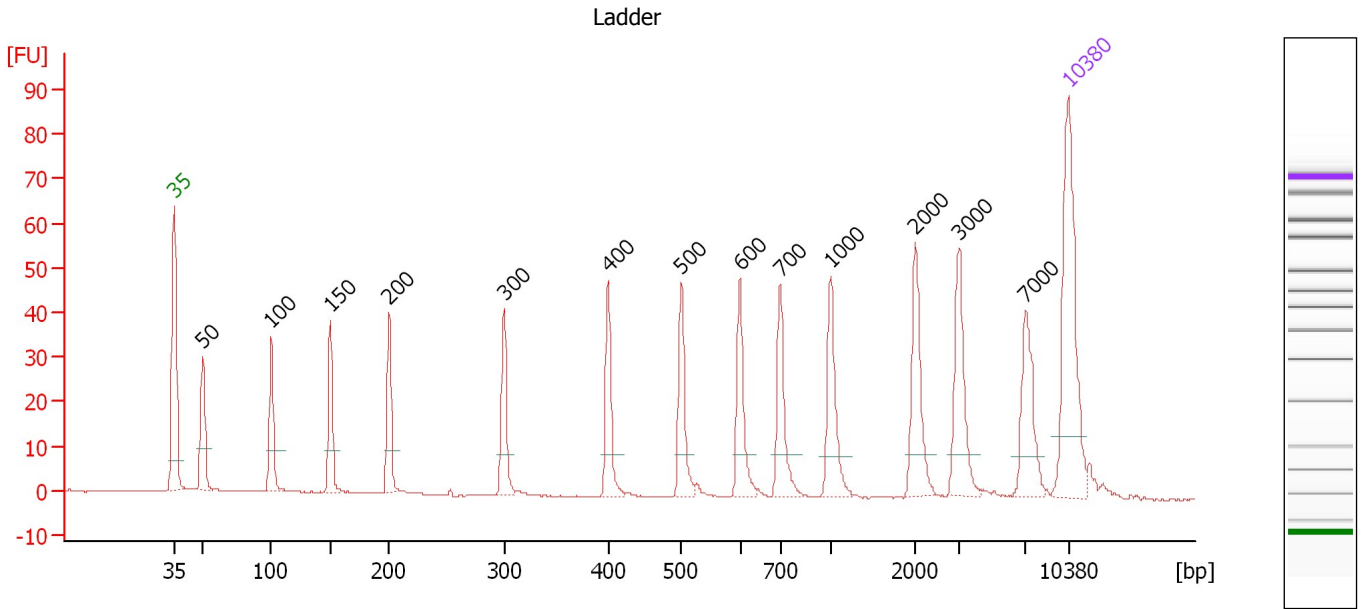
Ladder

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\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

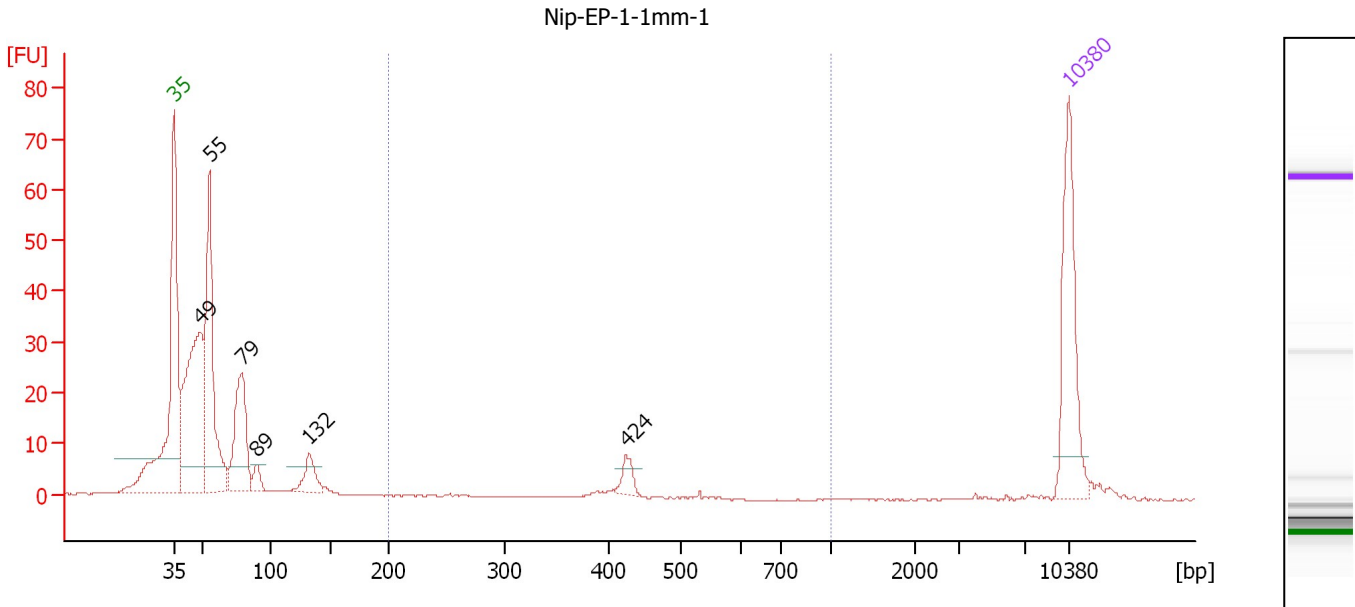
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Nip-EP-1-1mm-1

Number of peaks found: 6 Corr. Area 1: 13.2
 Noise: 0.1

Peak table for sample 1 : Nip-EP-1-1mm-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	224.54	7,009.8	
3	55	190.27	5,269.4	
4	79	101.98	1,965.8	
5	89	13.43	227.5	
6	132	28.09	322.4	
7	424	12.87	46.0	
8	10,380	75.00	10.9	Upper Marker

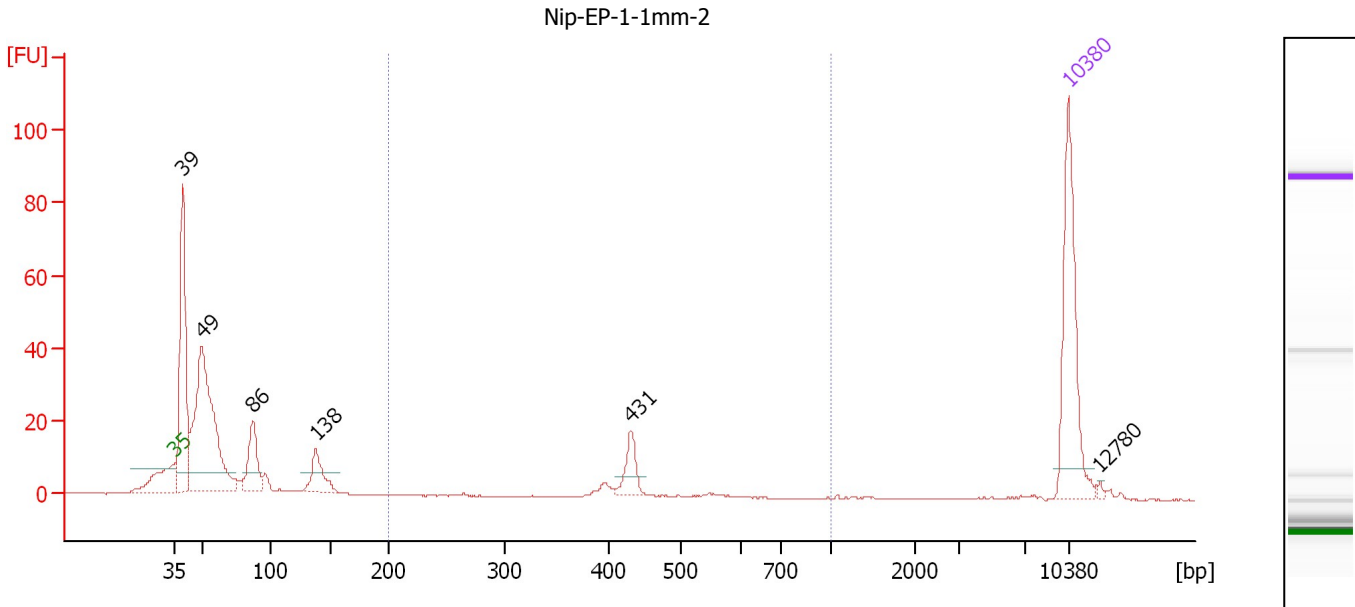
Region table for sample 1 : Nip-EP-1-1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	421	64.7	17.83	13.2	4	6.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nip-EP-1-1mm-2

Number of peaks found: 6 Corr. Area 1: 31.6
 Noise: 0.1

Peak table for sample 2 : Nip-EP-1-1mm-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	162.96	6,291.9	
3	49	231.18	7,097.0	
4	86	48.58	855.1	
5	138	32.38	356.3	
6	431	21.55	75.7	
7	10,380	75.00	10.9	Upper Marker
8	12,780	0.00	0.0	

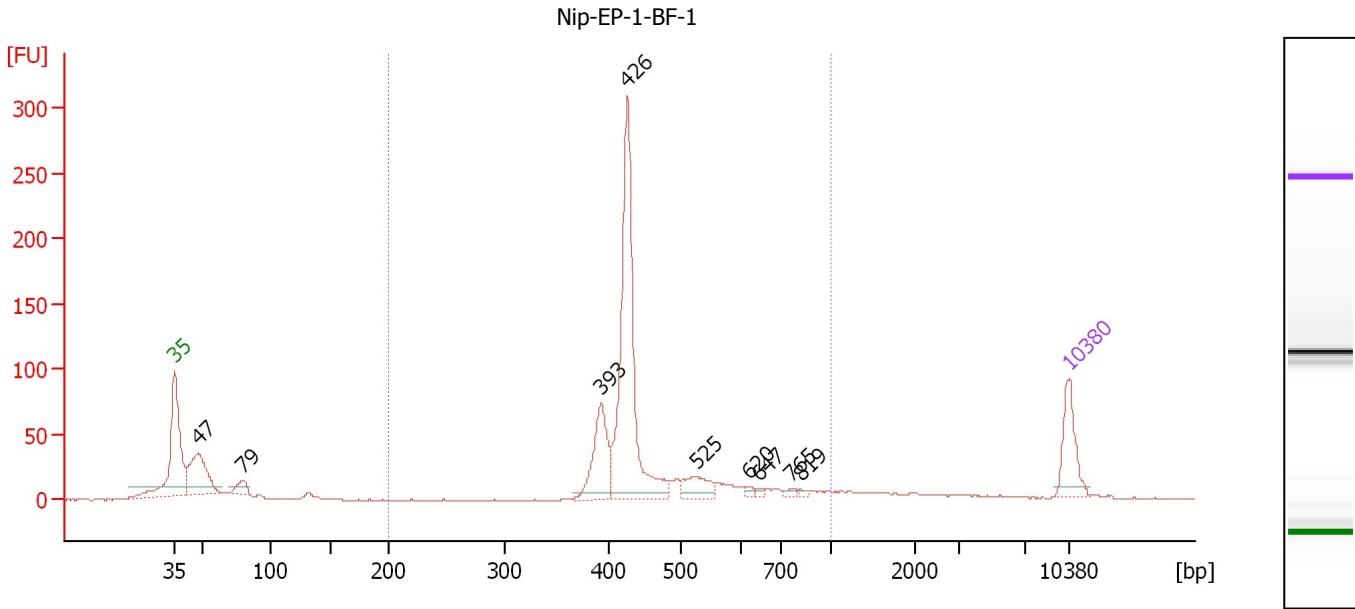
Region table for sample 2 : Nip-EP-1-1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	430	113.9	31.85	31.6	8	9.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nip-EP-1-BF-1

Number of peaks found: 9 Corr. Area 1: 746.6
 Noise: 0.3

Peak table for sample 3 : Nip-EP-1-BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	187.17	6,017.6	
3	79	31.71	604.9	
4	393	149.08	574.1	
5	426	528.41	1,880.2	
6	525	53.03	153.1	
7	620	8.15	19.9	
8	647	5.77	13.5	
9	765	6.80	13.5	
10	819	3.95	7.3	
11	10,380	75.00	10.9	Upper Marker

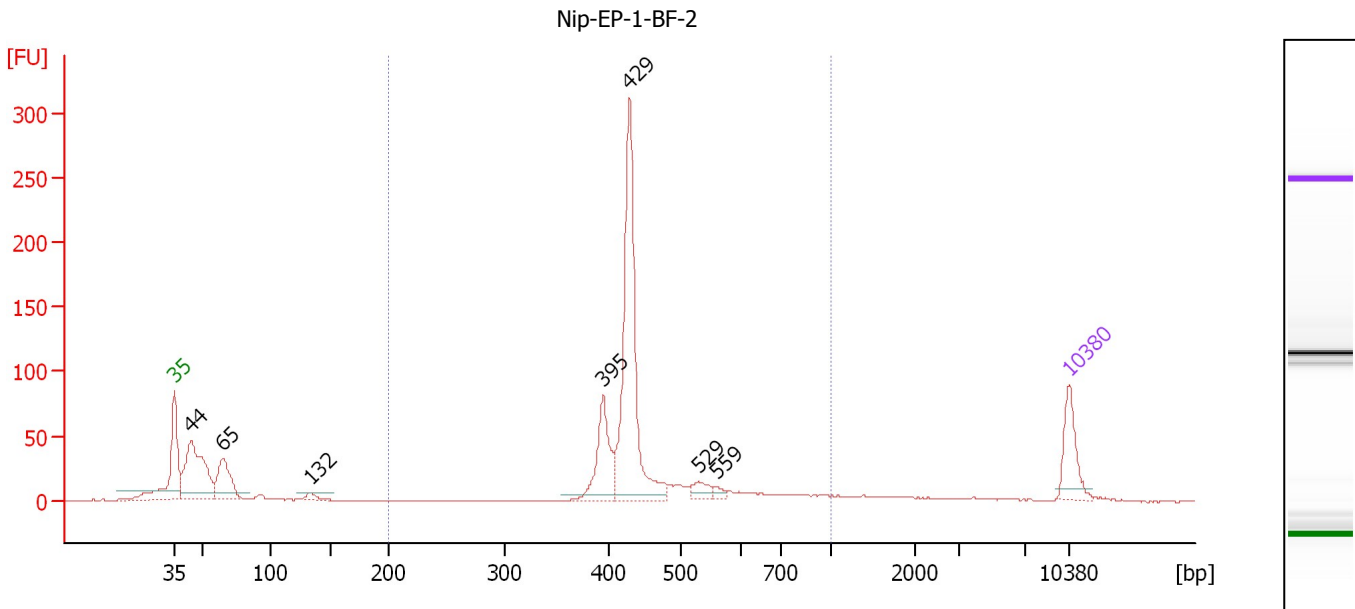
Region table for sample 3 : Nip-EP-1-BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	469	2,934.6	866.63	746.6	70	23.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nip-EP-1-BF-2

Number of peaks found: 7 Corr. Area 1: 664.5
 Noise: 0.2

Peak table for sample 4 : Nip-EP-1-BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	318.91	11,072.8	
3	65	138.15	3,231.0	
4	132	18.73	214.3	
5	395	149.27	572.4	
6	429	487.01	1,719.4	
7	529	29.48	84.5	
8	559	10.74	29.1	
9	10,380	75.00	10.9	Upper Marker

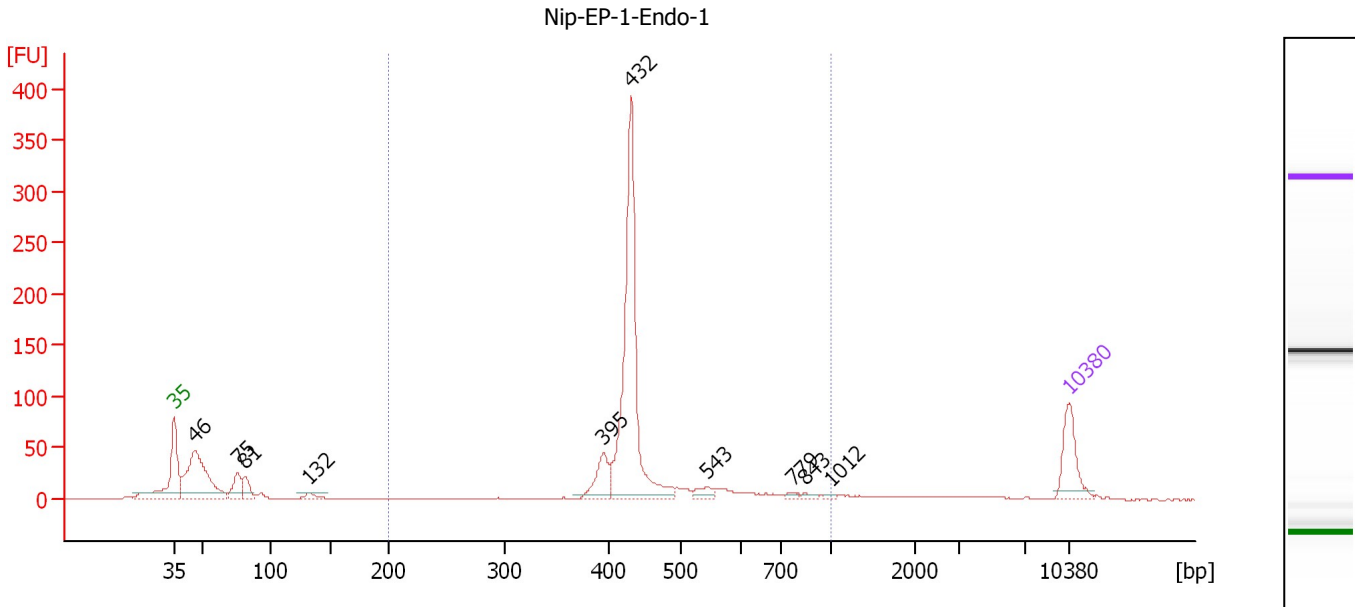
Region table for sample 4 : Nip-EP-1-BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	461	2,676.6	783.36	664.5	64	21.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Nip-EP-1-Endo-1

Number of peaks found: 10 Corr. Area 1: 705.9
 Noise: 0.3

Peak table for sample 5 : Nip-EP-1-Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	311.30	10,273.0	
3	75	62.85	1,264.5	
4	81	43.43	815.1	
5	132	15.06	173.2	
6	395	74.47	285.6	
7	432	573.41	2,012.7	
8	543	23.38	65.2	
9	779	7.49	14.6	
10	843	7.20	12.9	
11	1,012	4.52	6.8	
12	10,380	75.00	10.9	Upper Marker

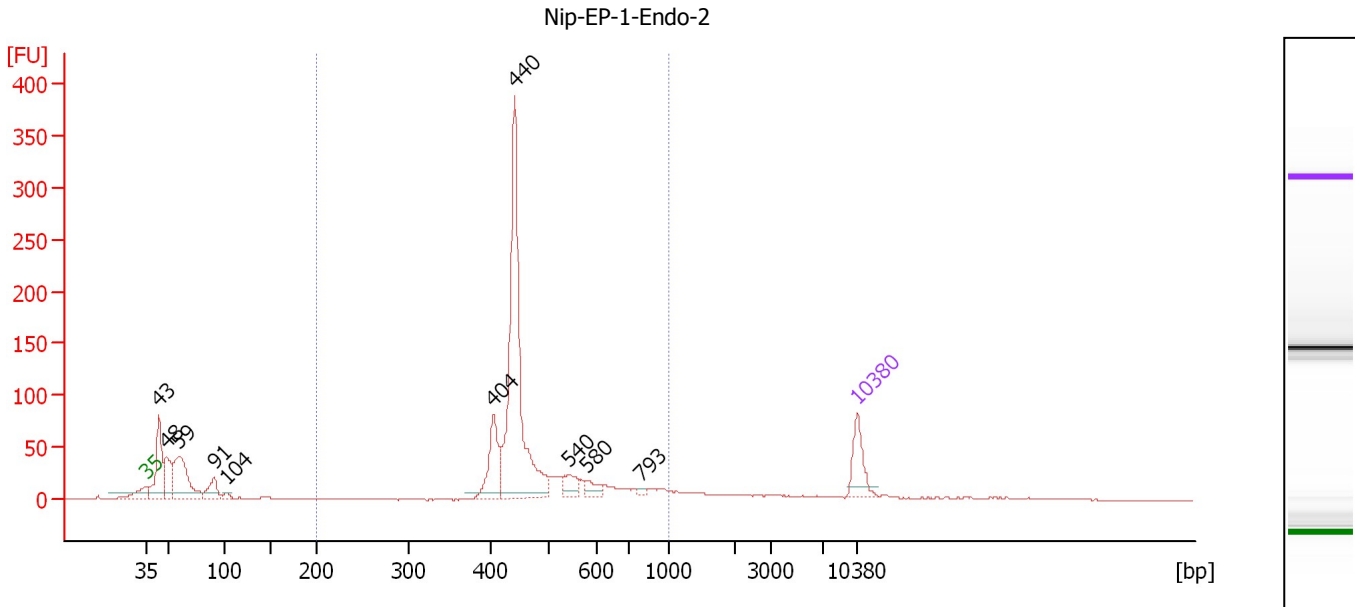
Region table for sample 5 : Nip-EP-1-Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	461	2,614.5	766.48	705.9	65	20.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Nip-EP-1-Endo-2

Number of peaks found: 10 Corr. Area 1: 912.1
 Noise: 0.2

Peak table for sample 6 : Nip-EP-1-Endo-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	248.33	8,736.6	
3	48	139.35	4,368.8	
4	59	300.47	7,723.6	
5	91	79.82	1,324.3	
6	104	15.20	222.4	
7	404	155.30	582.9	
8	440	784.33	2,699.0	
9	540	51.03	143.2	
10	580	33.49	87.5	
11	793	8.03	15.3	
12	10,380	75.00	10.9	Upper Marker

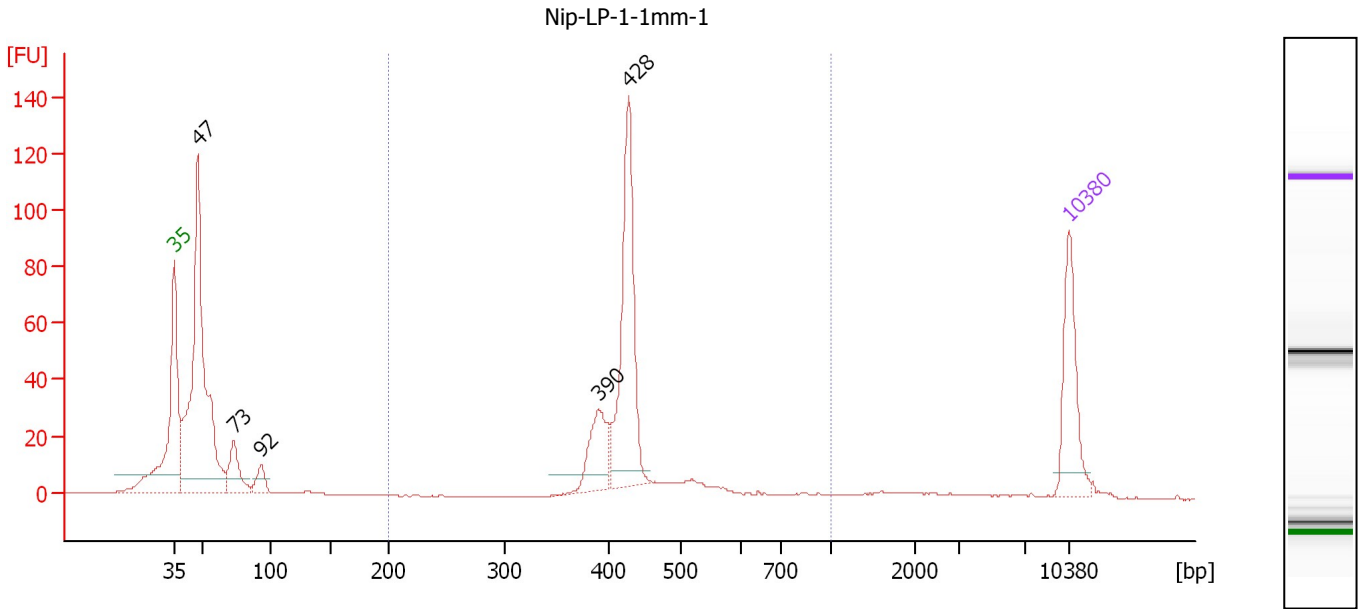
Region table for sample 6 : Nip-EP-1-Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	485	3,934.7	1,207.20	912.1	63	22.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Nip-LP-1-1mm-1

Number of peaks found: 5 Corr. Area 1: 311.7
 Noise: 0.1

Peak table for sample 7 : Nip-LP-1-1mm-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	495.33	15,862.7	
3	73	56.45	1,178.5	
4	92	24.33	399.3	
5	390	68.02	264.0	
6	428	215.04	761.6	
7	10,380	75.00	10.9	Upper Marker

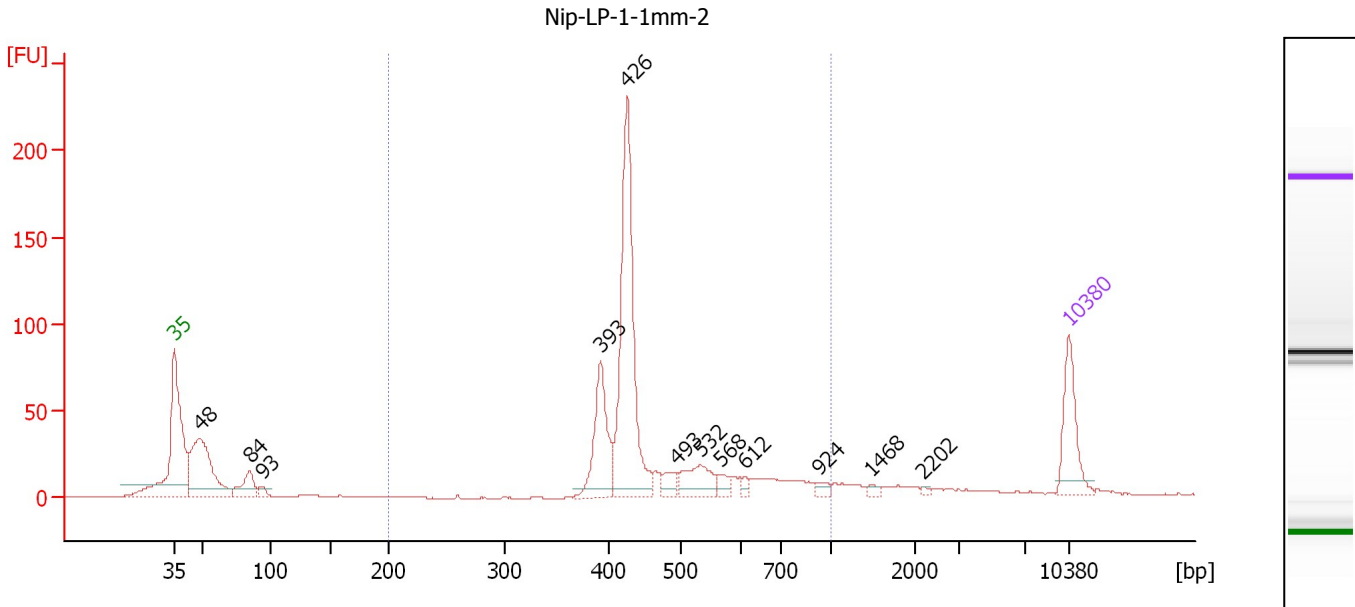
Region table for sample 7 : Nip-LP-1-1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	437	1,273.4	360.31	311.7	45	15.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Nip-LP-1-1mm-2

Number of peaks found: 12 Corr. Area 1: 653.8
 Noise: 0.2

Peak table for sample 8 : Nip-LP-1-1mm-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	245.72	7,737.4	
3	84	56.39	1,016.4	
4	93	12.58	204.5	
5	393	144.67	558.0	
6	426	387.79	1,379.4	
7	493	25.36	77.8	
8	532	64.15	182.6	
9	568	15.67	41.8	
10	612	9.73	24.1	
11	924	10.56	17.3	
12	1,468	6.22	6.4	
13	2,202	2.82	1.9	
14	10,380	75.00	10.9	Upper Marker

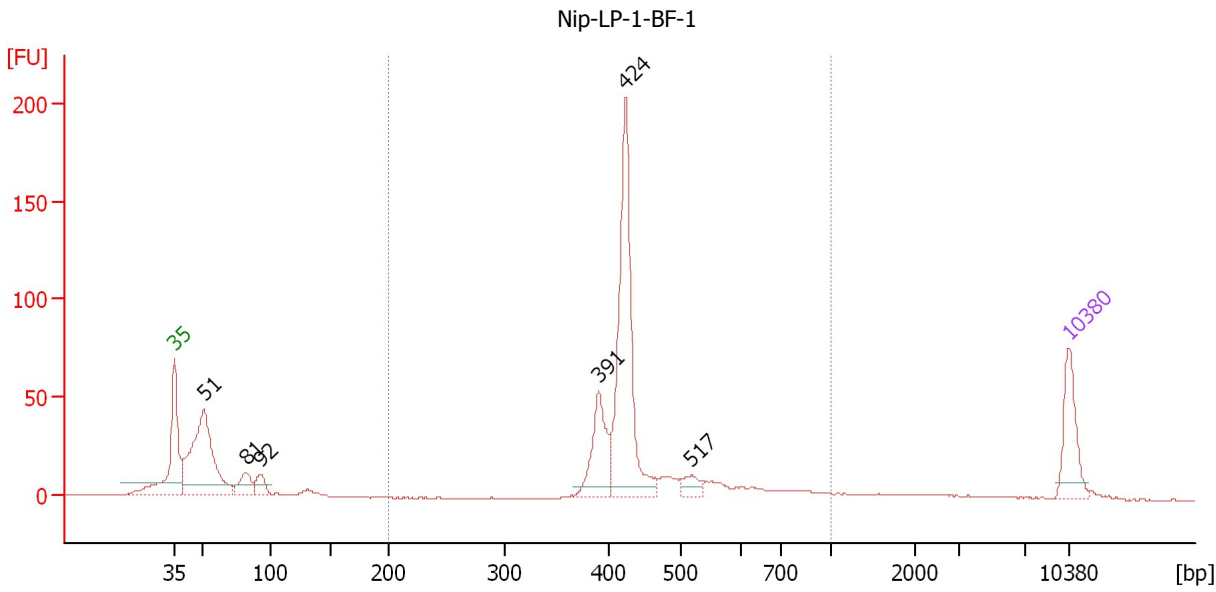
Region table for sample 8 : Nip-LP-1-1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	485	2,586.6	777.92	653.8	64	25.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Nip-LP-1-BF-1

Number of peaks found: 6 Corr. Area 1: 476.2
 Noise: 0.2

Peak table for sample 9 : Nip-LP-1-BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	371.11	11,117.4	
3	81	50.65	943.0	
4	92	37.13	610.4	
5	391	128.83	499.2	
6	424	403.27	1,442.4	
7	517	26.67	78.2	
8	10,380	75.00	10.9	Upper Marker

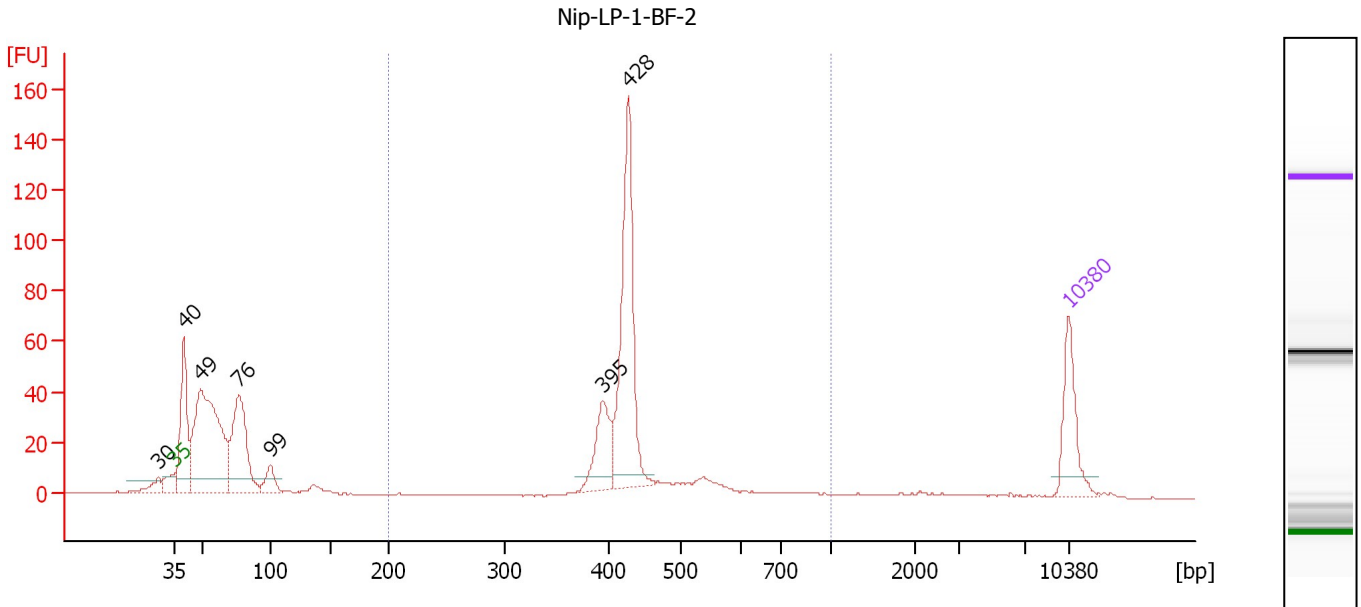
Region table for sample 9 : Nip-LP-1-BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	457	2,306.2	669.52	476.2	62	21.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Nip-LP-1-BF-2

Number of peaks found: 7 Corr. Area 1: 337.3
 Noise: 0.1

Peak table for sample 10 : Nip-LP-1-BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	197.88	7,538.0	
4	49	448.41	13,983.0	
5	76	224.59	4,491.3	
6	99	38.53	587.3	
7	395	97.95	376.0	
8	428	312.66	1,107.0	
9	10,380	75.00	10.9	Upper Marker

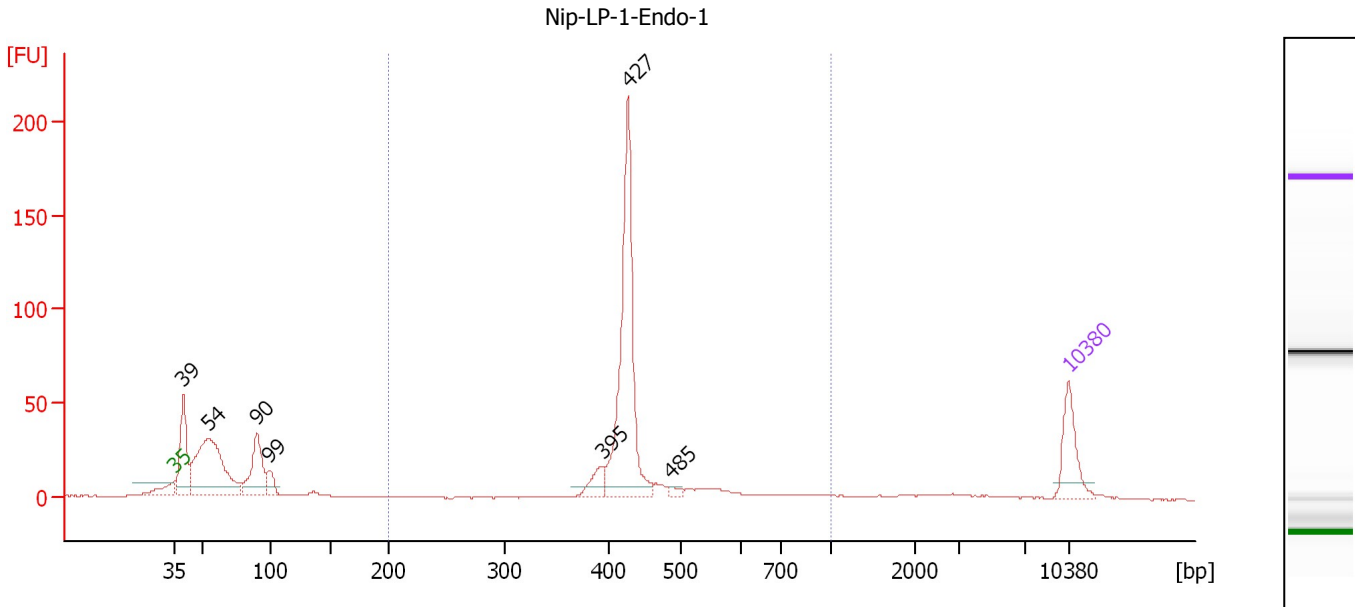
Region table for sample 10 : Nip-LP-1-BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	443	1,815.3	518.67	337.3	43	17.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
 Modified: 7/30/2012 2:20:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Nip-LP-1-Endo-1

Number of peaks found: 7 Corr. Area 1: 360.2
 Noise: 0.1

Peak table for sample 11 : Nip-LP-1-Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	187.59	7,205.0	
3	54	392.58	10,928.2	
4	90	161.42	2,726.8	
5	99	39.35	605.3	
6	395	42.38	162.7	
7	427	468.24	1,661.3	
8	485	9.16	28.6	
9	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : Nip-LP-1-Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	449	2,102.3	606.11	360.2	50	18.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-30\2012-07-30_003.xad

Created: 7/30/2012 1:38:51 PM
Modified: 7/30/2012 2:20:12 PM

Gel Image

