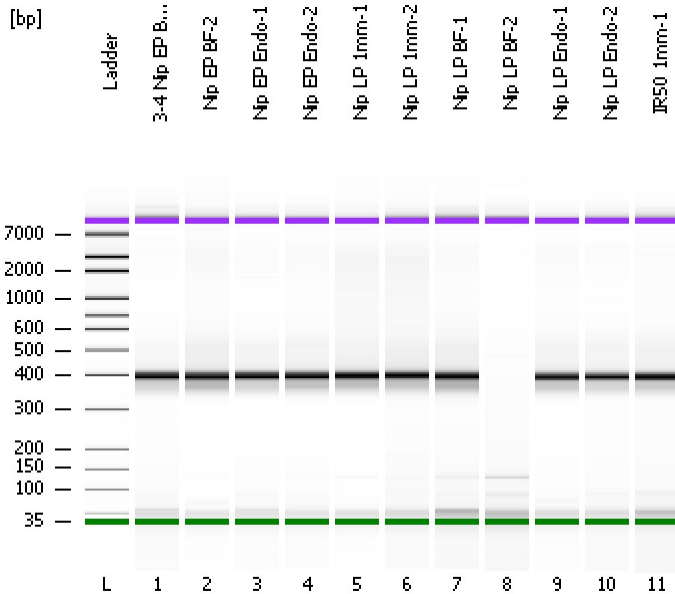


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
Modified: 11/14/2012 10:46:10 AM

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

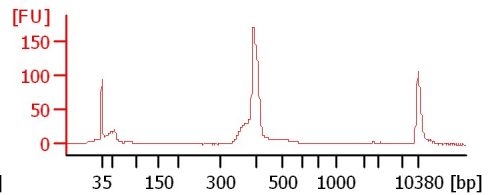
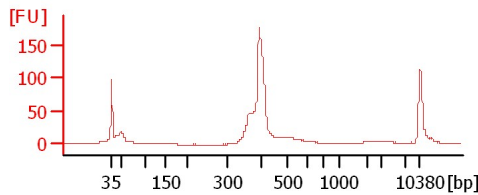
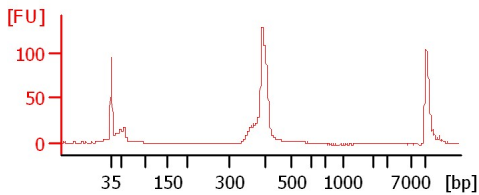
Chip Information:

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

3-4 Nip EP BF-1

Nip EP BF-2

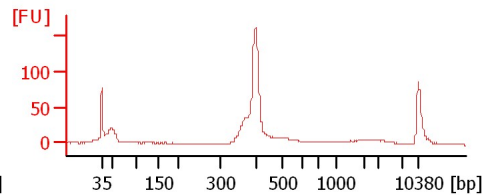
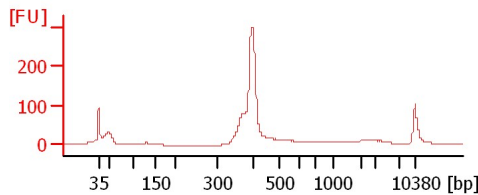
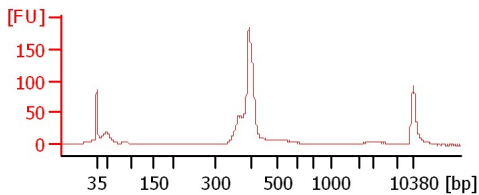
Nip EP Endo-1



Nip EP Endo-2

Nip LP 1mm-1

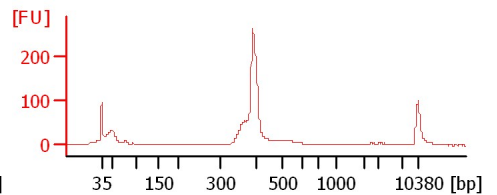
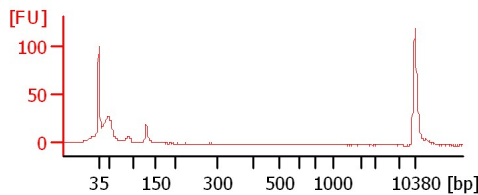
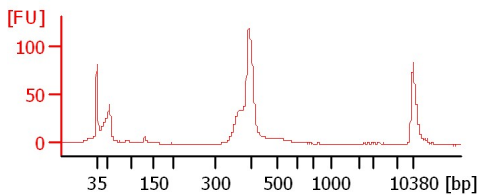
Nip LP 1mm-2



Nip LP BF-1

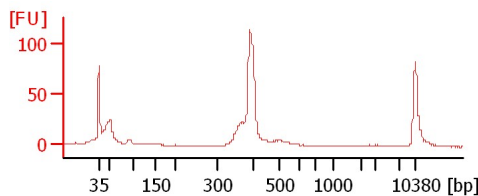
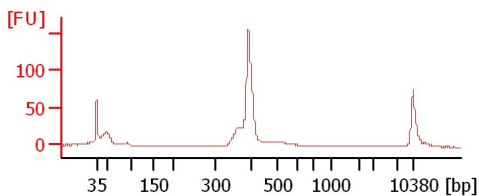
Nip LP BF-2

Nip LP Endo-1



Nip LP Endo-2

IR50 1mm-1



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3-4 Nip EP BF-1		<input type="checkbox"/>	✓			
Nip EP BF-2		<input type="checkbox"/>	✓			
Nip EP Endo-1		<input type="checkbox"/>	✓			
Nip EP Endo-2		<input type="checkbox"/>	✓			
Nip LP 1mm-1		<input type="checkbox"/>	✓			
Nip LP 1mm-2		<input type="checkbox"/>	✓			
Nip LP BF-1		<input type="checkbox"/>	✓			
Nip LP BF-2		<input type="checkbox"/>	✓			
Nip LP Endo-1		<input type="checkbox"/>	✓			
Nip LP Endo-2		<input type="checkbox"/>	✓			
IR50 1mm-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\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
Modified: 11/14/2012 10:46:10 AM

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

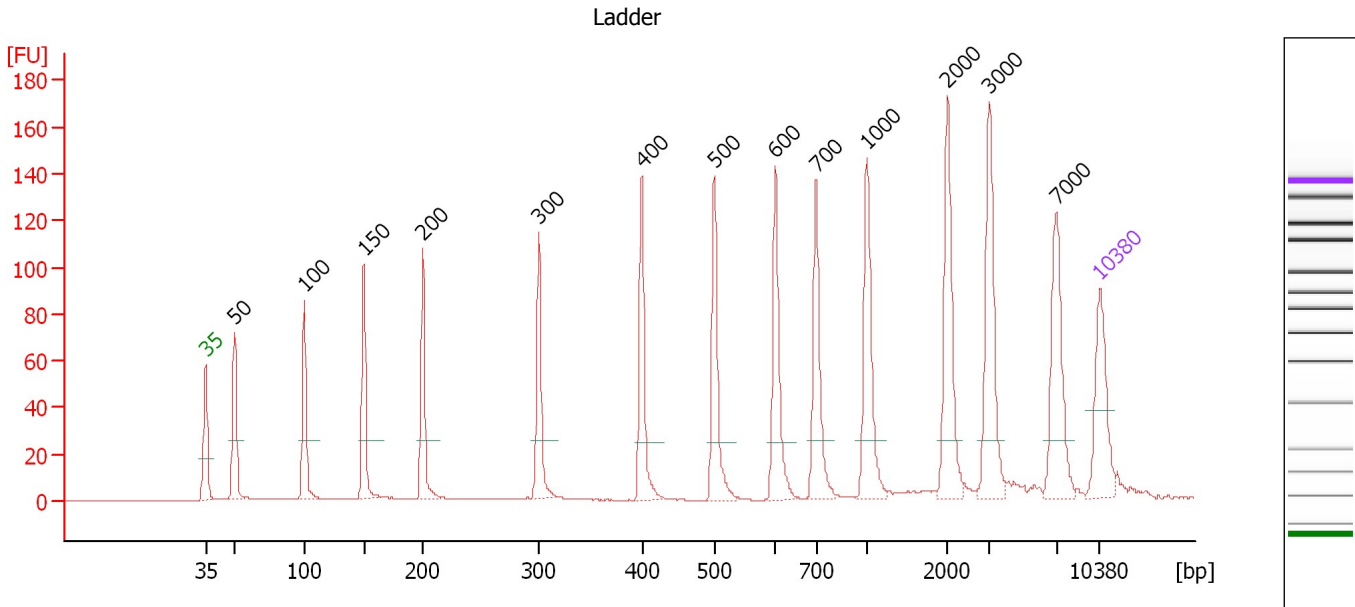
Ladder

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\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

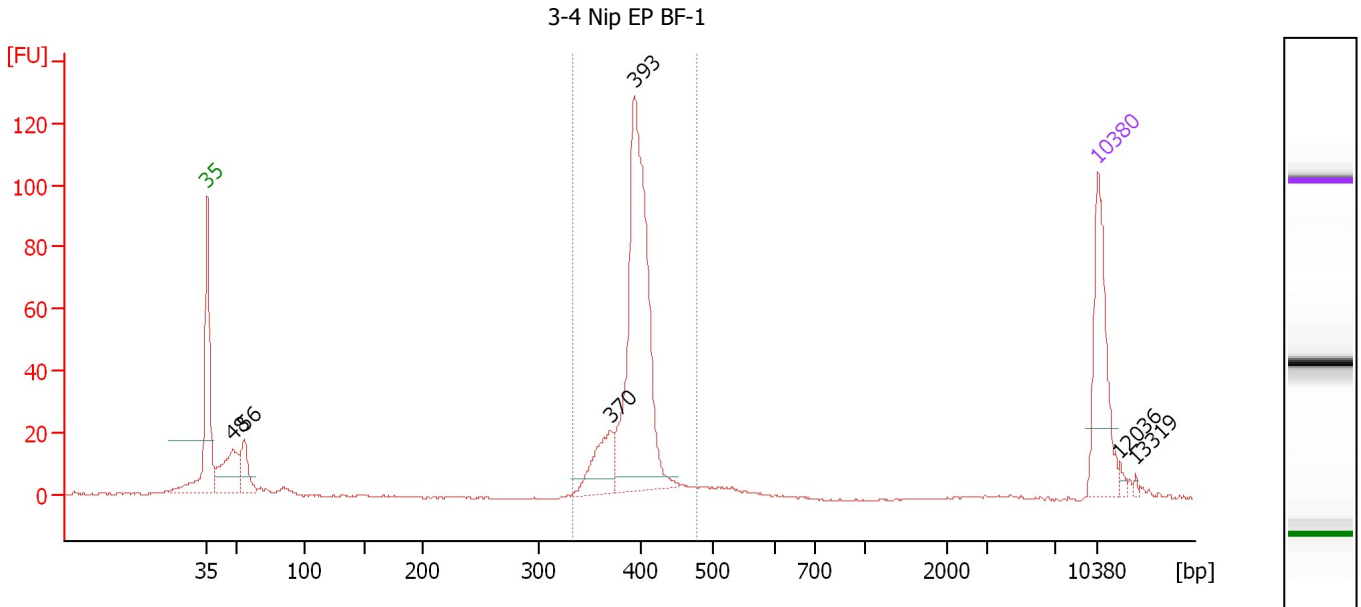
Peak table for Ladder

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\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 3-4 Nip EP BF-1

Number of peaks found: 6 Corr. Area 1: 385.3
 Noise: 0.2

Peak table for sample 1 : 3-4 Nip EP BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	77.66	2,431.7	
3	56	40.44	1,097.5	
4	370	54.54	223.6	
5	393	310.81	1,196.9	
6	10,380	75.00	10.9	Upper Marker
7	12,036	0.00	0.0	
8	13,319	0.00	0.0	

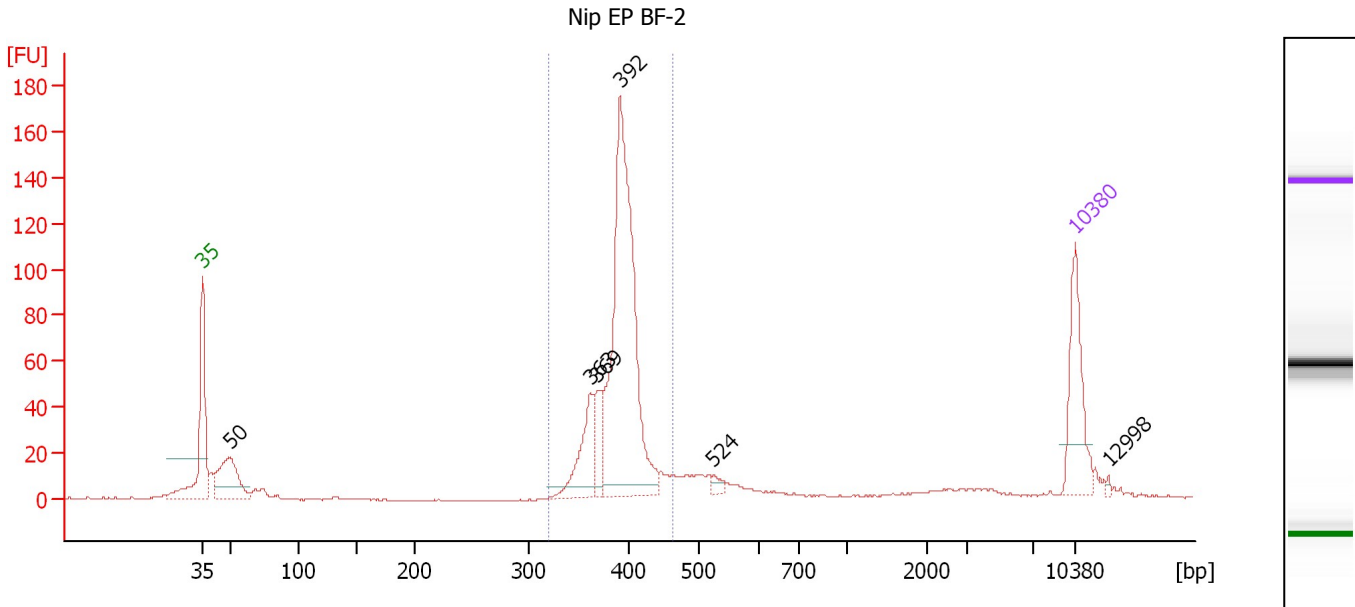
Region table for sample 1 : 3-4 Nip EP BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	476	394	1,456.7	378.48	385.3	77	5.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nip EP BF-2

Number of peaks found: 6 Corr. Area 1: 601.3
 Noise: 0.2

Peak table for sample 2 : Nip EP BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	108.47	3,300.4	
3	363	79.76	332.8	
4	369	41.04	168.3	
5	392	436.95	1,689.8	
6	524	7.80	22.6	
7	10,380	75.00	10.9	Upper Marker
8	12,998	0.00	0.0	

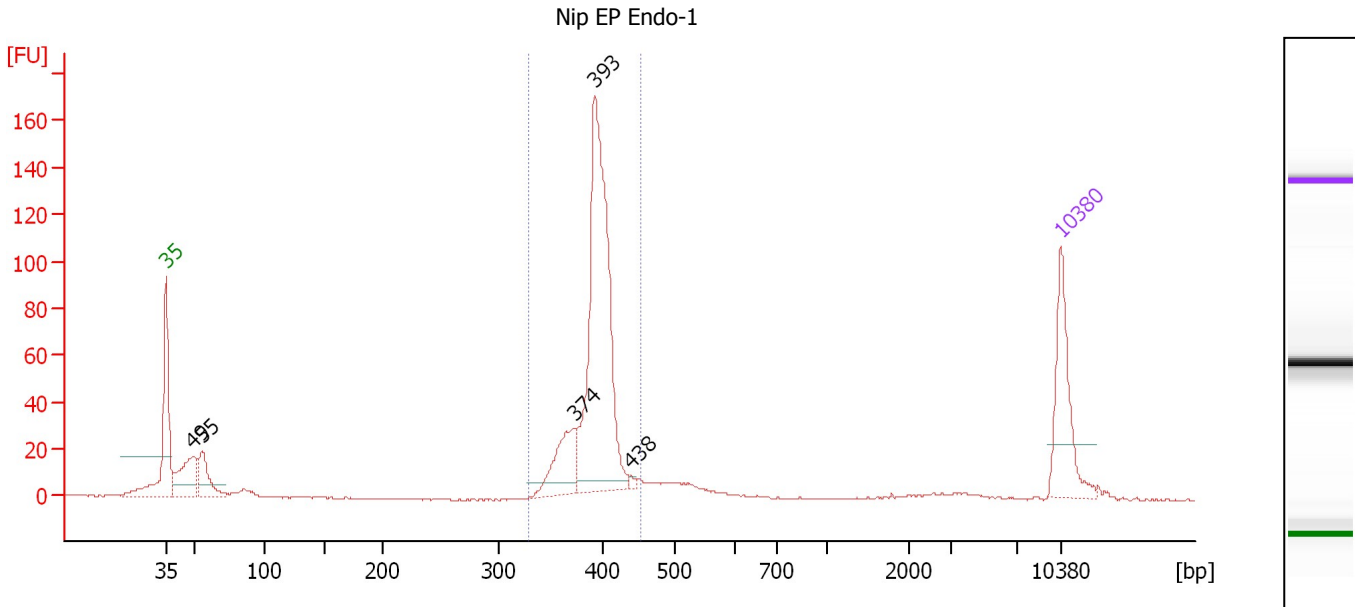
Region table for sample 2 : Nip EP BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	462	392	2,217.8	571.81	601.3	72	5.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nip EP Endo-1

Number of peaks found: 5 Corr. Area 1: 512.8
 Noise: 0.2

Peak table for sample 3 : Nip EP Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	86.05	2,667.3	
3	55	55.68	1,528.0	
4	374	75.36	305.5	
5	393	375.68	1,450.0	
6	438	3.39	11.7	
7	10,380	75.00	10.9	Upper Marker

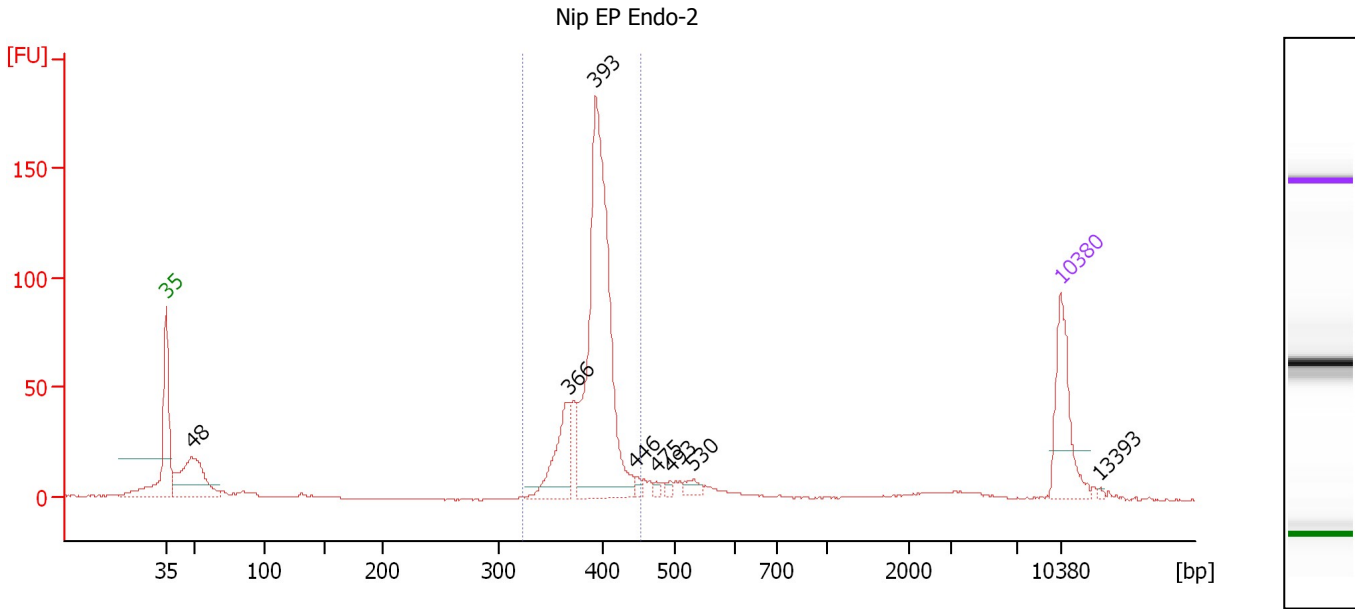
Region table for sample 3 : Nip EP Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	454	393	1,856.6	481.35	512.8	72	4.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nip EP Endo-2

Number of peaks found: 8 Corr. Area 1: 581.8
 Noise: 0.2

Peak table for sample 4 : Nip EP Endo-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	142.06	4,461.7	
3	366	86.35	357.0	
4	393	451.48	1,739.2	
5	446	6.49	22.0	
6	475	4.65	14.8	
7	493	5.65	17.4	
8	530	11.24	32.1	
9	10,380	75.00	10.9	Upper Marker
10	13,393	0.00	0.0	

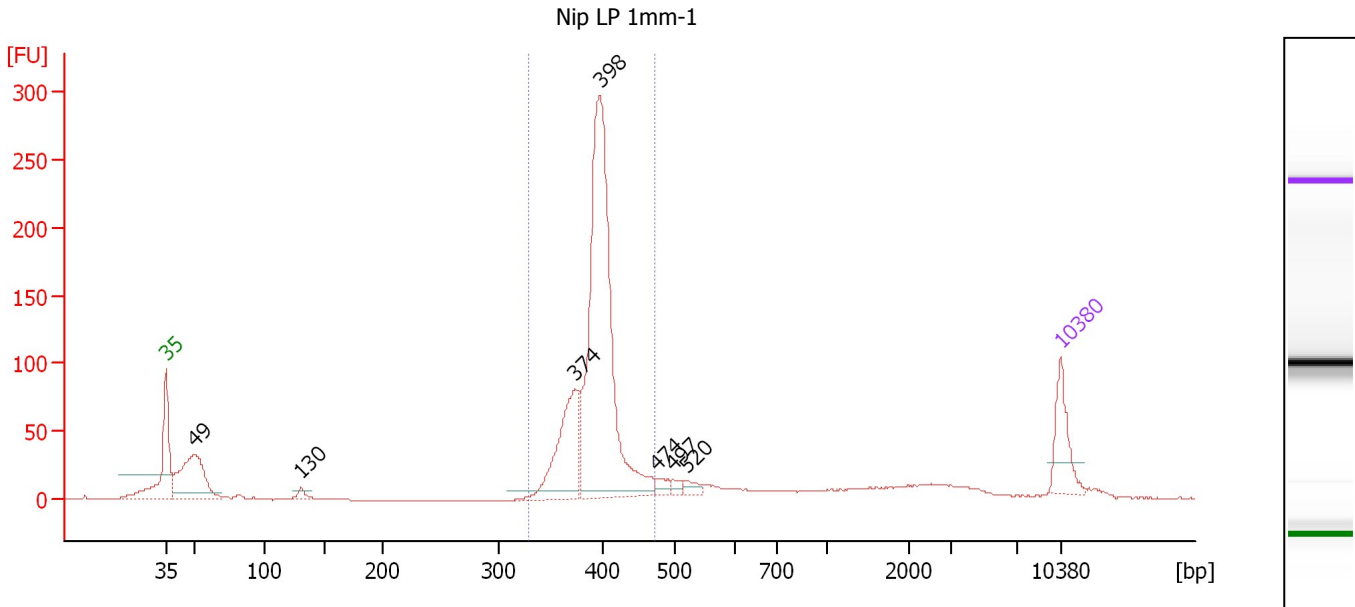
Region table for sample 4 : Nip EP Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	452	392	2,254.1	582.07	581.8	71	5.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Nip LP 1mm-1

Number of peaks found: 7 Corr. Area 1: 1,014.0
 Noise: 0.2

Peak table for sample 5 : Nip LP 1mm-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	270.54	8,310.6	
3	130	15.66	182.4	
4	374	233.14	945.5	
5	398	843.79	3,215.9	
6	474	18.72	59.8	
7	497	11.97	36.5	
8	520	16.59	48.4	
9	10,380	75.00	10.9	Upper Marker

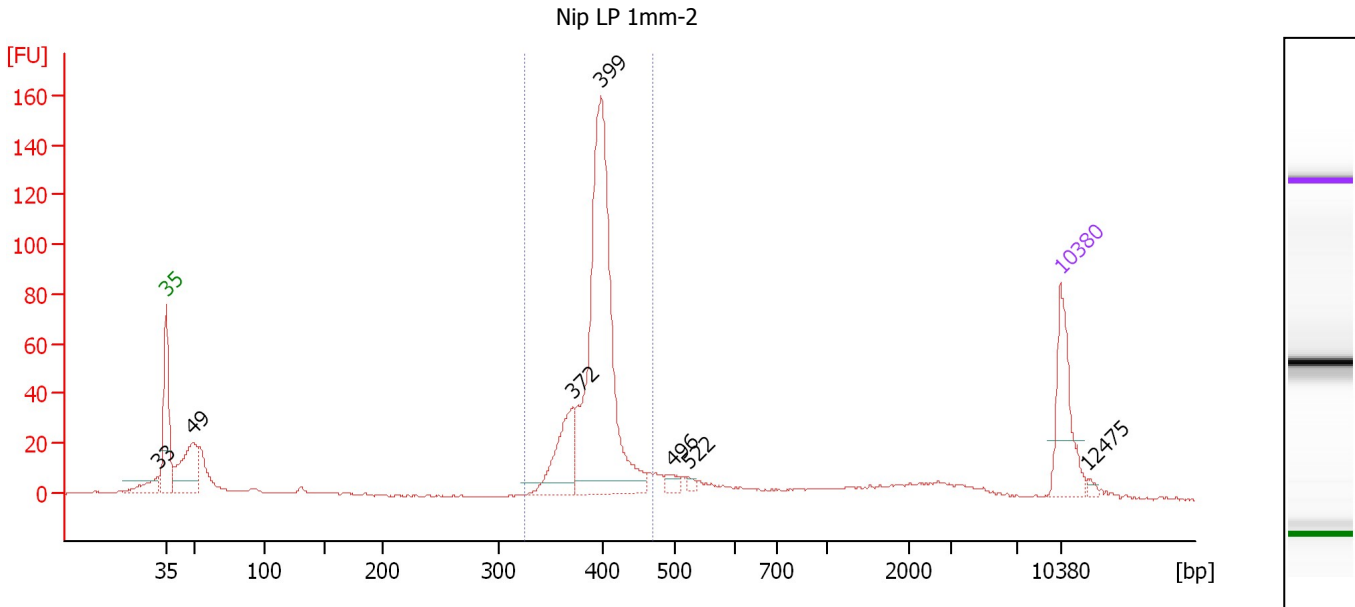
Region table for sample 5 : Nip LP 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	471	395	4,215.8	1,095.13	1,014.0	68	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Nip LP 1mm-2

Number of peaks found: 7 Corr. Area 1: 527.4
 Noise: 0.3

Peak table for sample 6 : Nip LP 1mm-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	119.35	3,704.5	
4	372	93.83	382.5	
5	399	487.68	1,853.9	
6	496	12.23	37.4	
7	522	5.75	16.7	
8	10,380	75.00	10.9	Upper Marker
9	12,475	0.00	0.0	

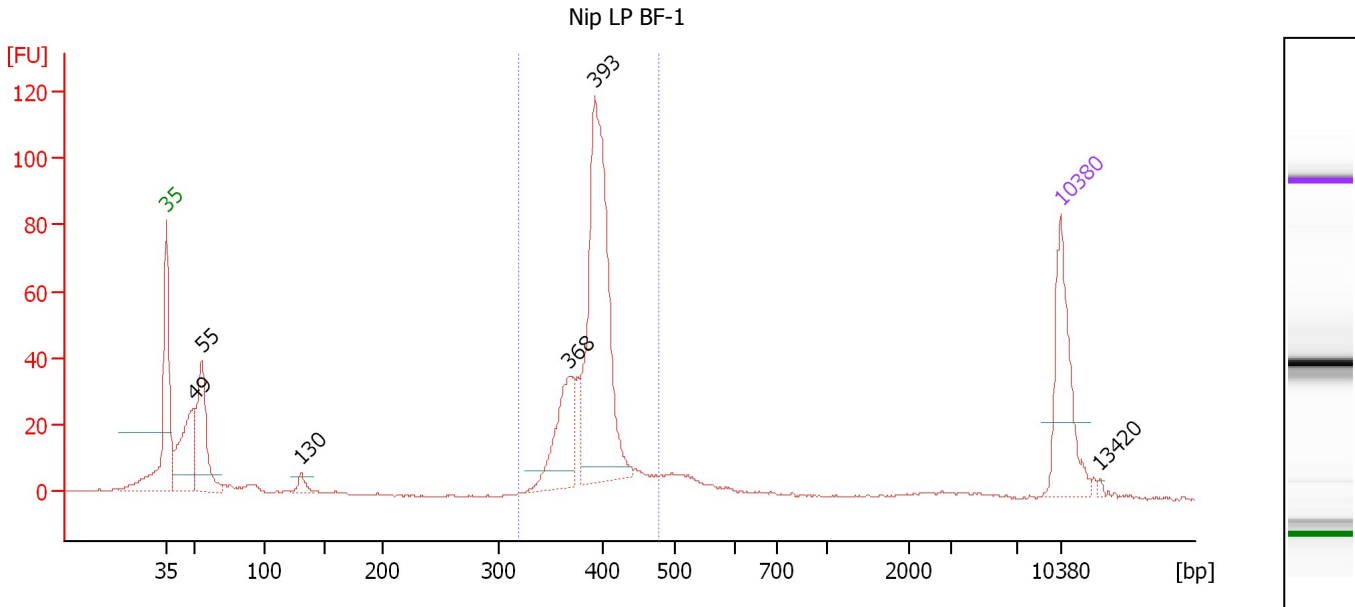
Region table for sample 6 : Nip LP 1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
325	469	396	2,319.8	604.23	527.4	62	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Nip LP BF-1

Number of peaks found: 6 Corr. Area 1: 435.9
 Noise: 0.2

Peak table for sample 7 : Nip LP BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	113.38	3,473.0	
3	55	122.54	3,397.7	
4	130	13.37	155.6	
5	368	87.30	359.5	
6	393	302.86	1,168.7	
7	10,380	75.00	10.9	Upper Marker
8	13,420	0.00	0.0	

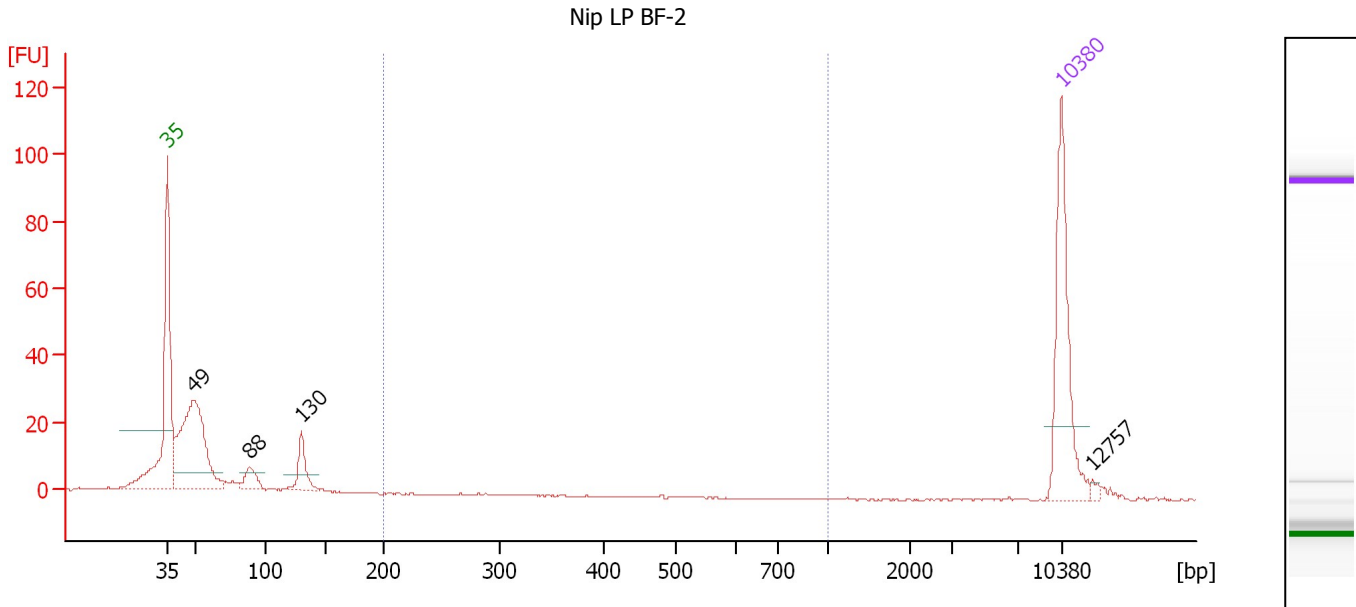
Region table for sample 7 : Nip LP BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
318	477	392	1,799.7	464.71	435.9	63	6.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Nip LP BF-2

Number of peaks found: 4 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 8 : Nip LP BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	187.69	5,814.9	
3	88	20.14	345.3	
4	130	31.54	368.6	
5	10,380	75.00	10.9	Upper Marker
6	12,757	0.00	0.0	

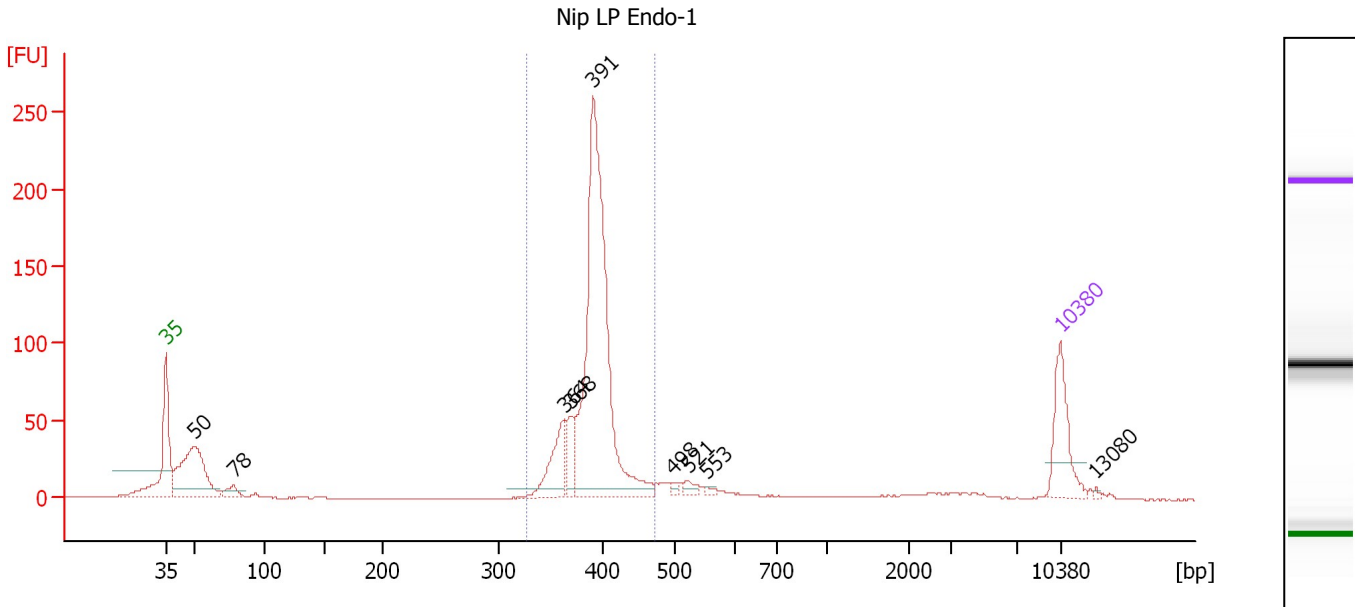
Region table for sample 8 : Nip LP BF-2

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	285	0.3	0.05	0.0	0	1.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : Nip LP Endo-1

Number of peaks found: 9 Corr. Area 1: 784.6
 Noise: 0.2

Peak table for sample 9 : Nip LP Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	246.02	7,521.9	
3	78	26.46	515.7	
4	364	89.66	373.5	
5	368	42.35	174.3	
6	391	618.53	2,397.9	
7	498	6.92	21.1	
8	521	11.98	34.8	
9	553	4.80	13.2	
10	10,380	75.00	10.9	Upper Marker
11	13,080	0.00	0.0	

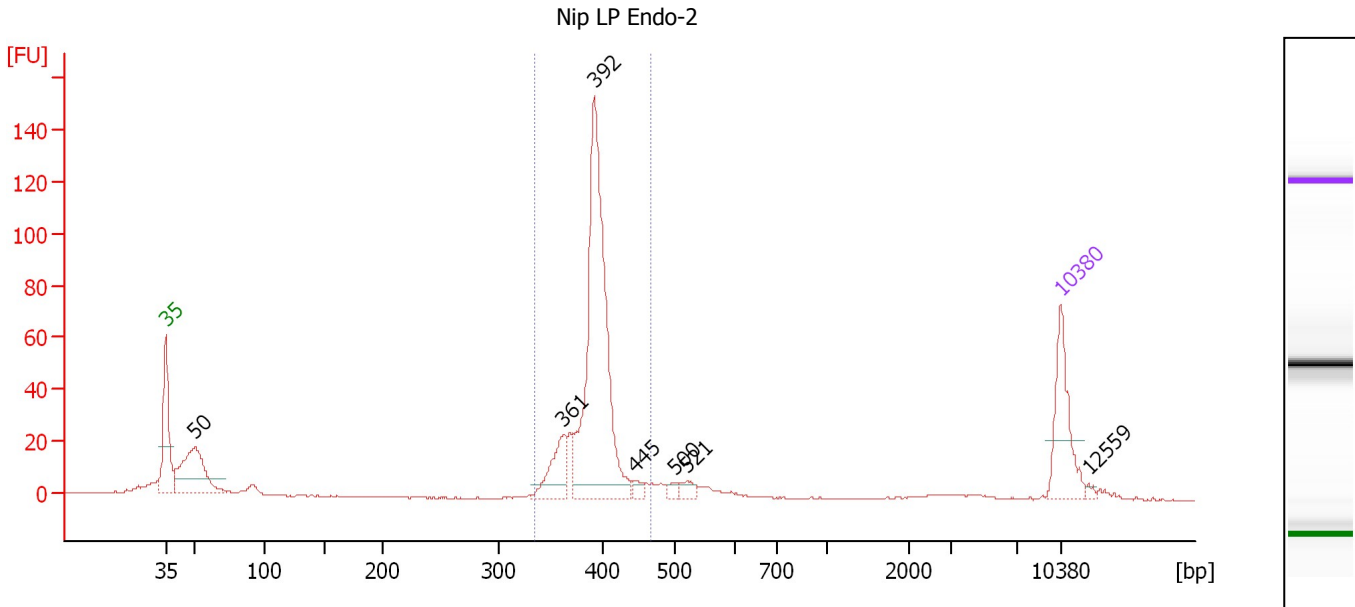
Region table for sample 9 : Nip LP Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	471	391	2,962.5	763.56	784.6	70	5.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Nip LP Endo-2

Number of peaks found: 7 Corr. Area 1: 402.1
 Noise: 0.2

Peak table for sample 10 : Nip LP Endo-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	156.53	4,744.4	
3	361	63.35	265.7	
4	392	446.42	1,725.2	
5	445	10.42	35.5	
6	500	7.91	24.0	
7	521	13.41	39.0	
8	10,380	75.00	10.9	Upper Marker
9	12,559	0.00	0.0	

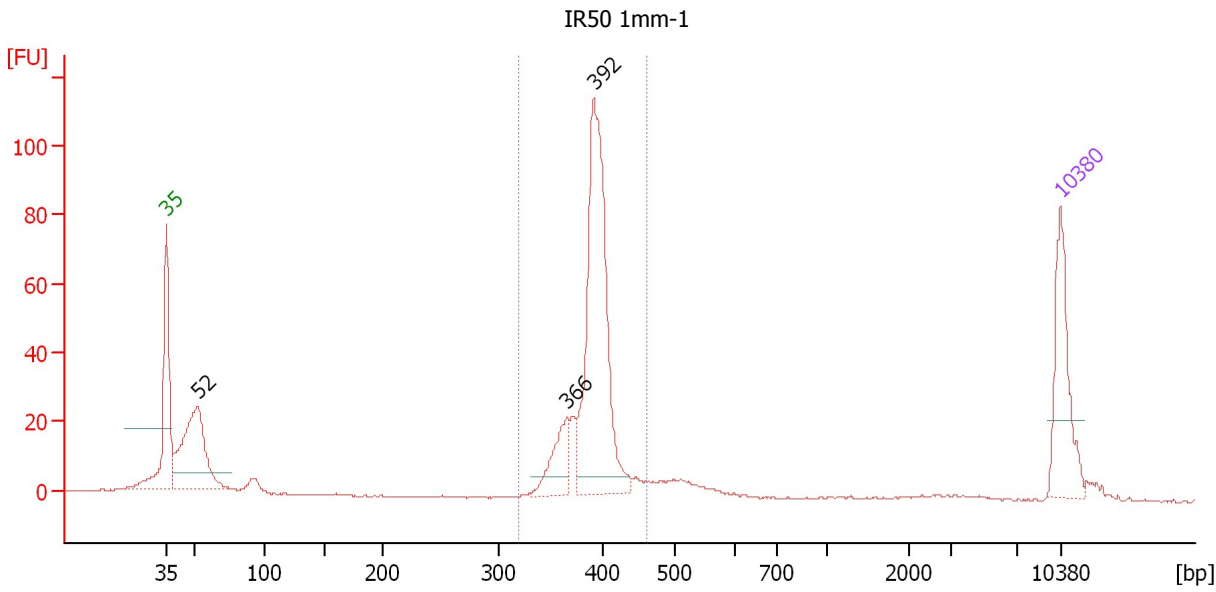
Region table for sample 10 : Nip LP Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
334	466	392	2,066.1	533.48	402.1	71	5.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : IR50 1mm-1

Number of peaks found: 3 Corr. Area 1: 344.1
 Noise: 0.2

Peak table for sample 11 : IR50 1mm-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	190.18	5,515.0	
3	366	55.39	229.4	
4	392	316.27	1,223.5	
5	10,380	75.00	10.9	Upper Marker

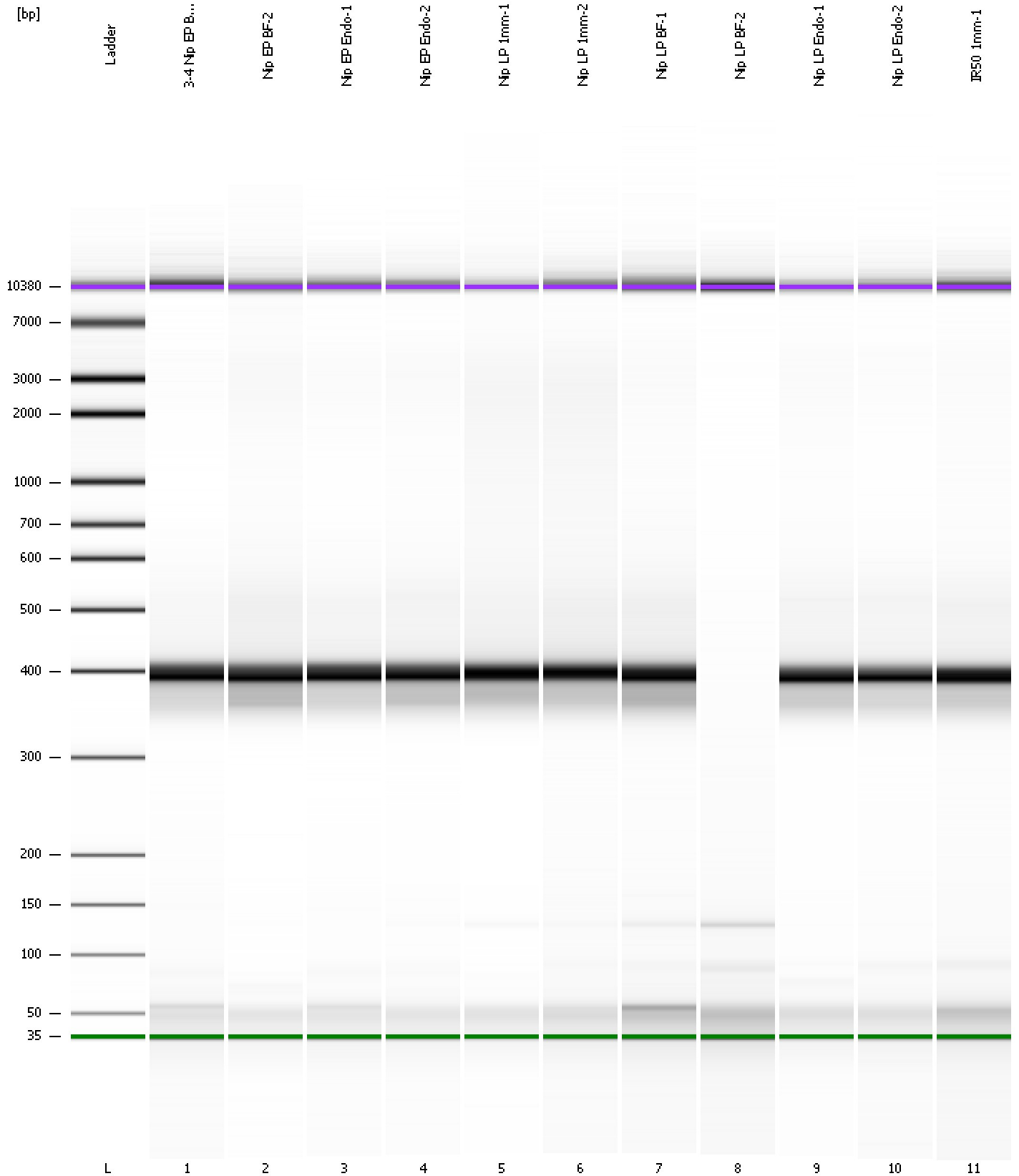
Region table for sample 11 : IR50 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
319	461	391	1,562.2	402.45	344.1	66	5.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
Modified: 11/14/2012 10:46:10 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad

Created: 11/14/2012 10:04:12 AM
 Modified: 11/14/2012 10:46:10 AM

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		11/14/2012 10:45:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-14\2012-11-14_002.xad)		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/14/2012 10:04:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1