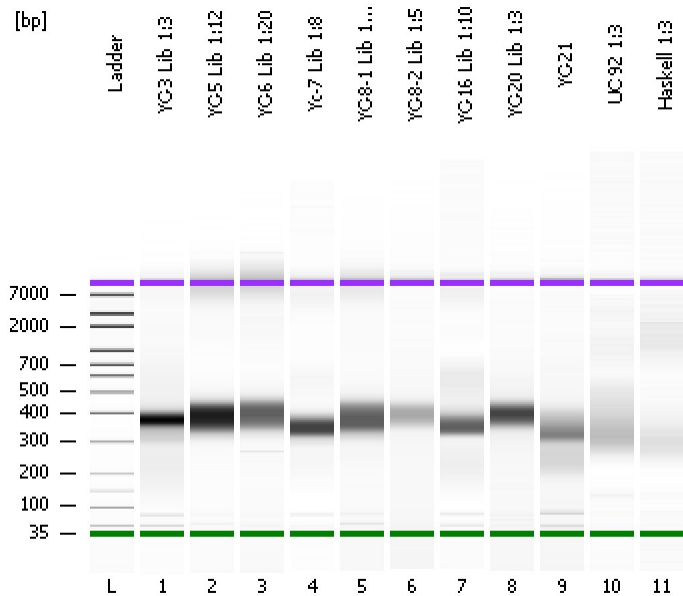


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
Modified: 4/30/2012 4:35:31 PM

Electrophoresis File Run Summary



Instrument Information:

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

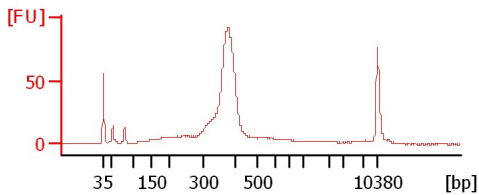
Assay Information:

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

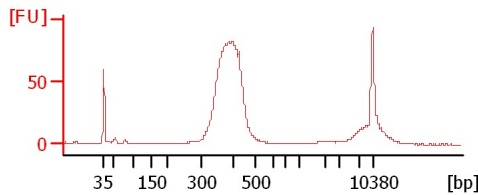
Chip Information:

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

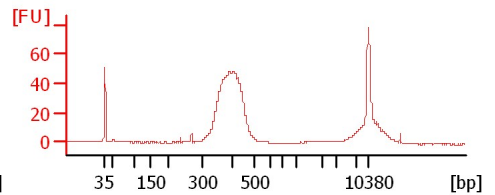
YC-3 Lib 1:3



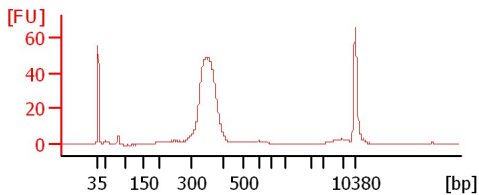
YC-5 Lib 1:12



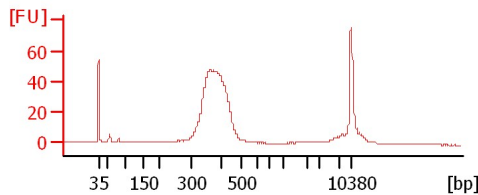
YC-6 Lib 1:20



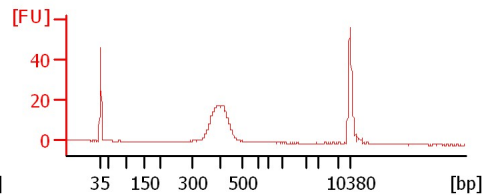
Yc-7 Lib 1:8



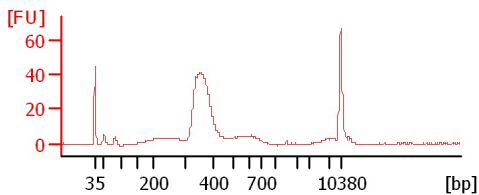
YC-8-1 Lib 1:15



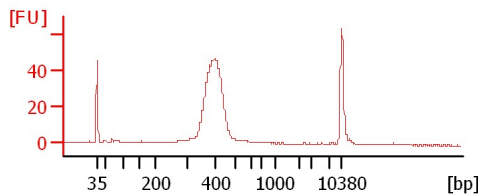
YC-8-2 Lib 1:5



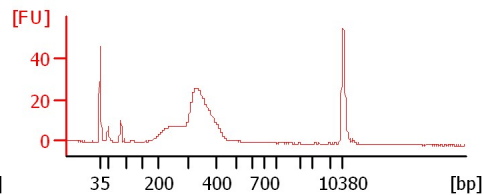
YC-16 Lib 1:10



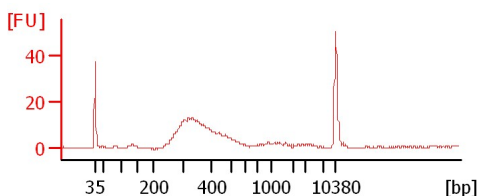
YC-20 Lib 1:3



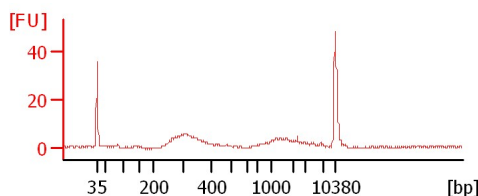
YC-21



UC 92 1:3



Haskell 1:3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
YC-3 Lib 1:3		<input type="checkbox"/>	✓			
YC-5 Lib 1:12		<input type="checkbox"/>	✓			
YC-6 Lib 1:20		<input type="checkbox"/>	✓			
Yc-7 Lib 1:8		<input type="checkbox"/>	✓			
YC-8-1 Lib 1:15		<input type="checkbox"/>	✓			
YC-8-2 Lib 1:5		<input type="checkbox"/>	✓			
YC-16 Lib 1:10		<input type="checkbox"/>	✓			
YC-20 Lib 1:3		<input type="checkbox"/>	✓			
YC-21		<input type="checkbox"/>	✓			
UC 92 1:3		<input type="checkbox"/>	✓			
Haskell 1:3		<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\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
Modified: 4/30/2012 4:35:31 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

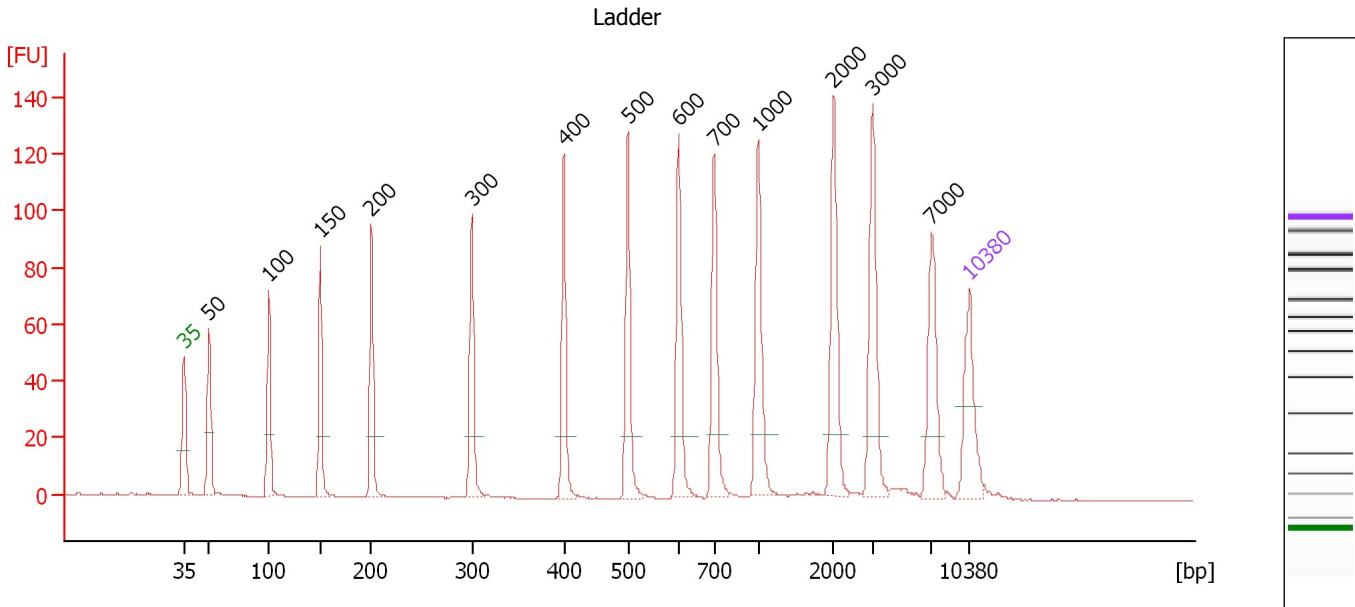
Ladder

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\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

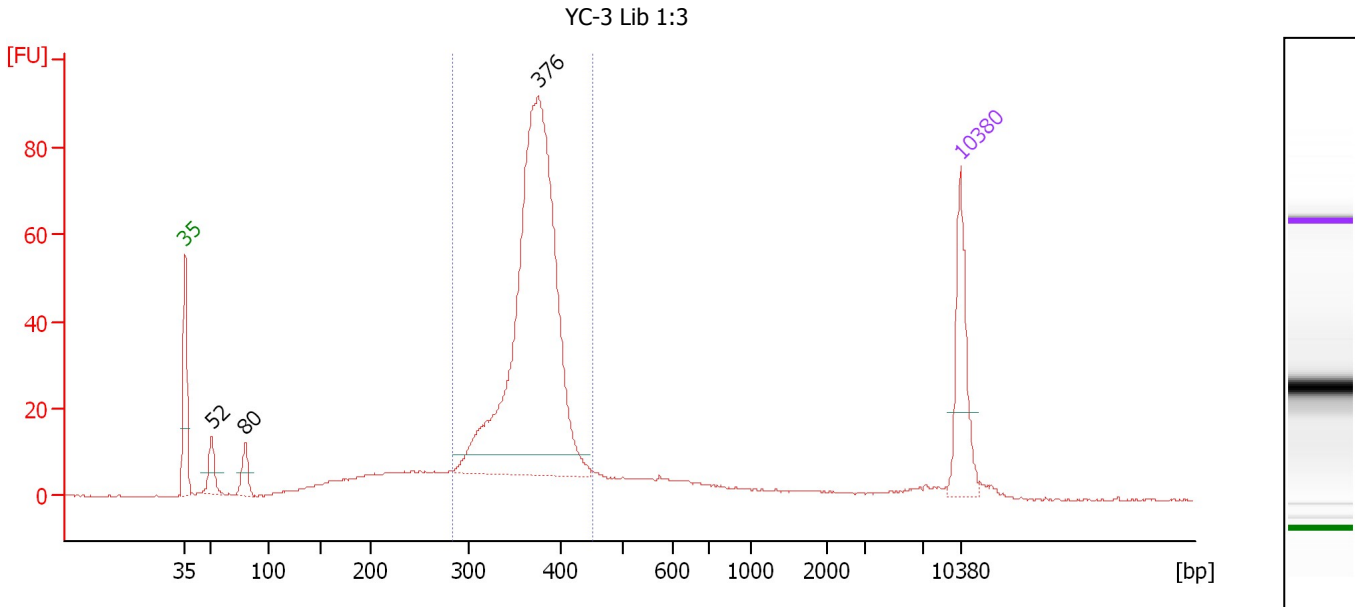
Peak table for Ladder

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\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : YC-3 Lib 1:3

Number of peaks found: 3 Corr. Area 1: 596.9
 Noise: 0.1

Peak table for sample 1 : YC-3 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	37.33	1,095.2	
3	80	33.74	637.8	
4	376	748.44	3,013.0	
5	10,380	75.00	10.9	Upper Marker

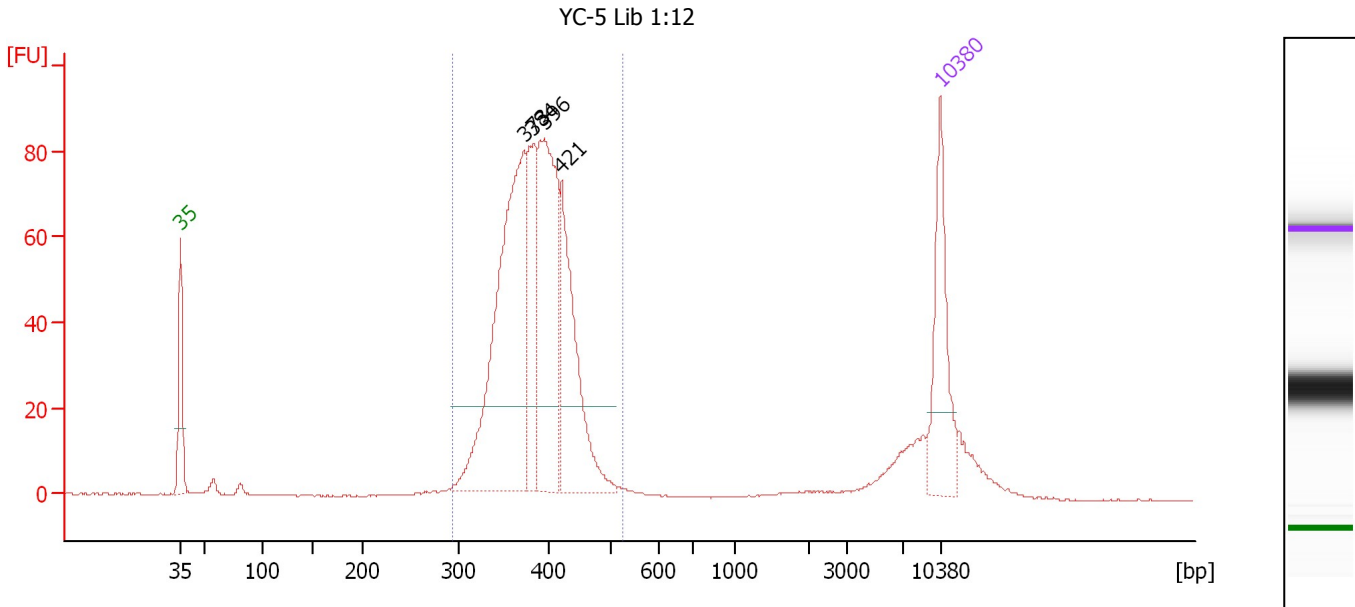
Region table for sample 1 : YC-3 Lib 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
283	3,726.1	369	901.15	452	596.9	70	8.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : YC-5 Lib 1:12

Height Threshold [FU] : 20

Overall Results for sample 2 : YC-5 Lib 1:12

Number of peaks found: 4 Corr. Area 1: 846.4
 Noise: 0.2

Peak table for sample 2 : YC-5 Lib 1:12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	373	342.58	1,391.9	
3	384	101.77	401.9	
4	396	209.40	801.9	
5	421	157.21	565.4	
6	10,380	75.00	10.9	Upper Marker

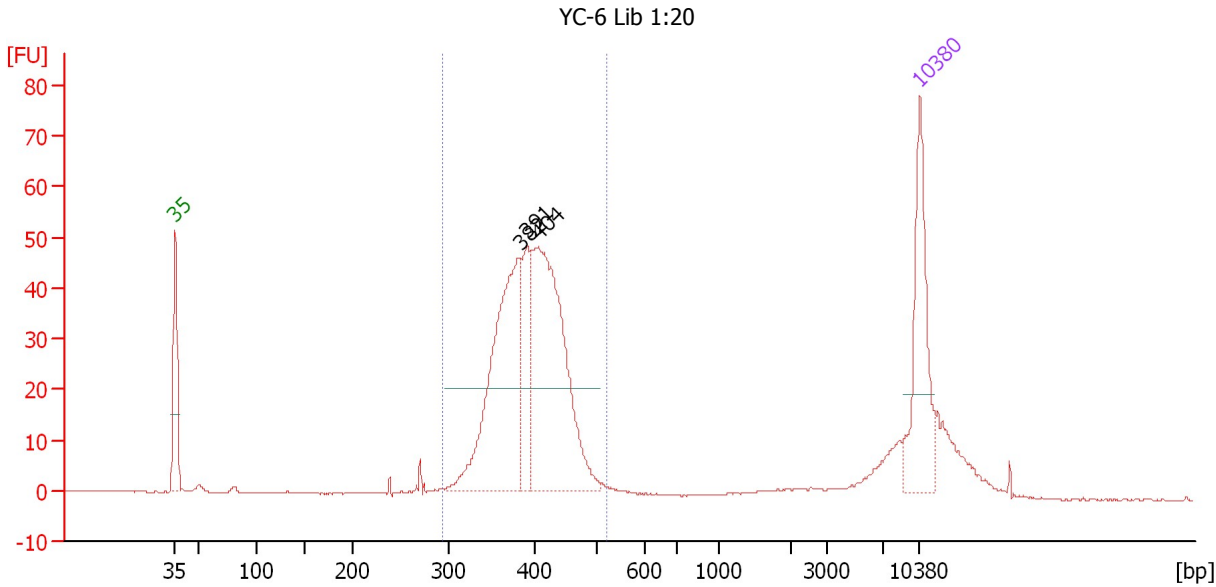
Region table for sample 2 : YC-5 Lib 1:12

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
293	3,405.6	387	862.53	524	846.4	87	9.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : YC-6 Lib 1:20

Height Threshold [FU] : 20

Overall Results for sample 3 : YC-6 Lib 1:20

Number of peaks found: 3 Corr. Area 1: 485.0
 Noise: 0.1

Peak table for sample 3 : YC-6 Lib 1:20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	382	217.61	862.8	
3	391	60.06	232.9	
4	404	252.43	946.3	
5	10,380	75.00	10.9	Upper Marker

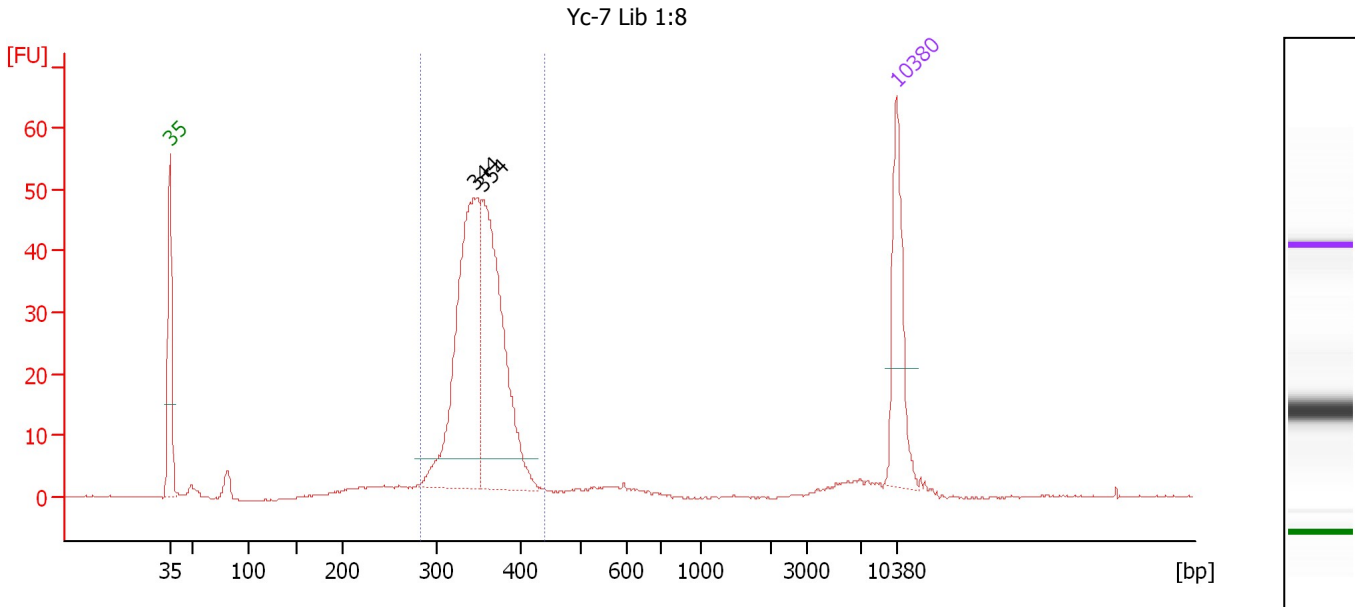
Region table for sample 3 : YC-6 Lib 1:20

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
294	2,141.1	397	555.59	522	485.0	84	9.7	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Yc-7 Lib 1:8

Number of peaks found: 2 Corr. Area 1: 355.2
 Noise: 0.1

Peak table for sample 4 : Yc-7 Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	344	307.52	1,353.8	
3	354	272.05	1,165.9	
4	10,380	75.00	10.9	Upper Marker

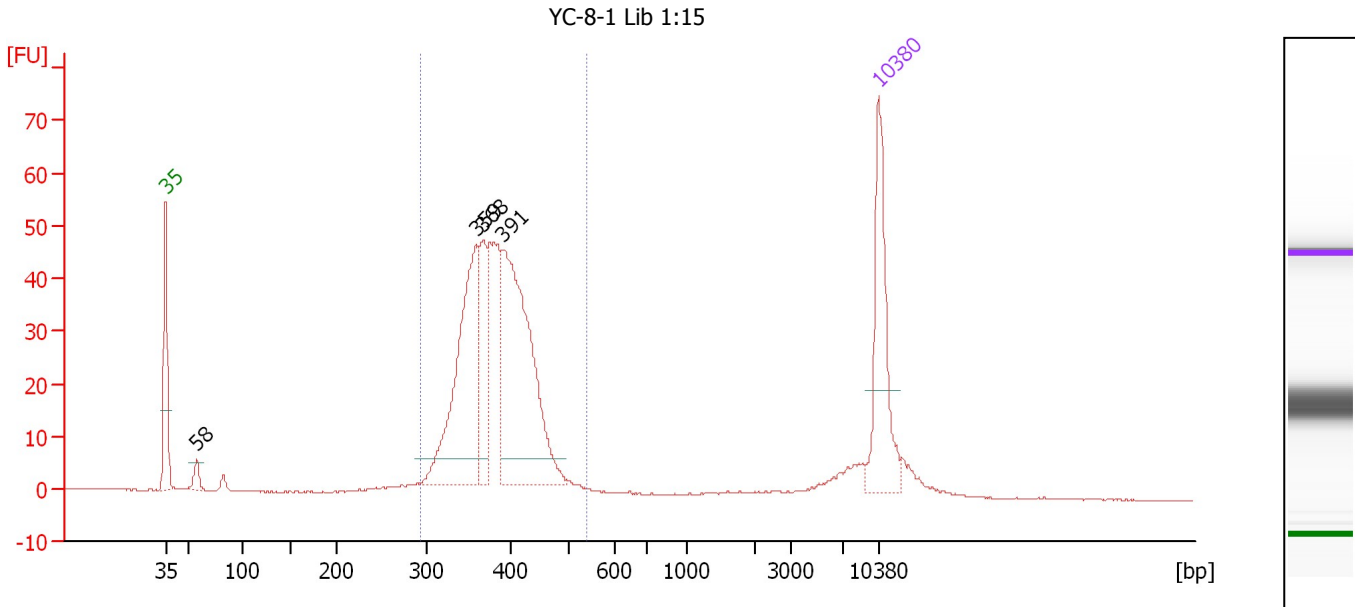
Region table for sample 4 : Yc-7 Lib 1:8

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
283	2,666.1	351	616.67	439	355.2	85	7.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : YC-8-1 Lib 1:15

Number of peaks found: 4 Corr. Area 1: 507.9
 Noise: 0.1

Peak table for sample 5 : YC-8-1 Lib 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	13.42	353.1	
3	359	186.78	788.8	
4	368	69.69	287.2	
5	391	237.22	920.2	
6	10,380	75.00	10.9	Upper Marker

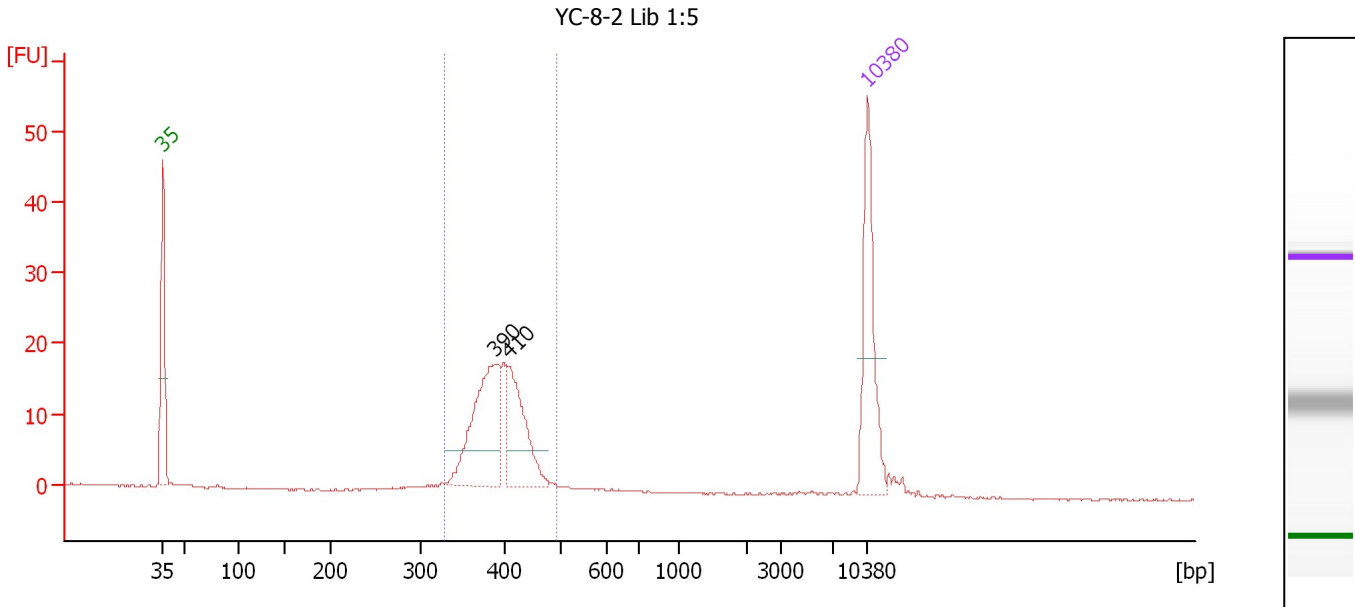
Region table for sample 5 : YC-8-1 Lib 1:15

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
293	2,557.4	385	642.91	538	507.9	87	10.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : YC-8-2 Lib 1:5

Number of peaks found: 2 Corr. Area 1: 137.5
 Noise: 0.1

Peak table for sample 6 : YC-8-2 Lib 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	390	127.41	495.4	
3	410	81.07	299.4	
4	10,380	75.00	10.9	Upper Marker

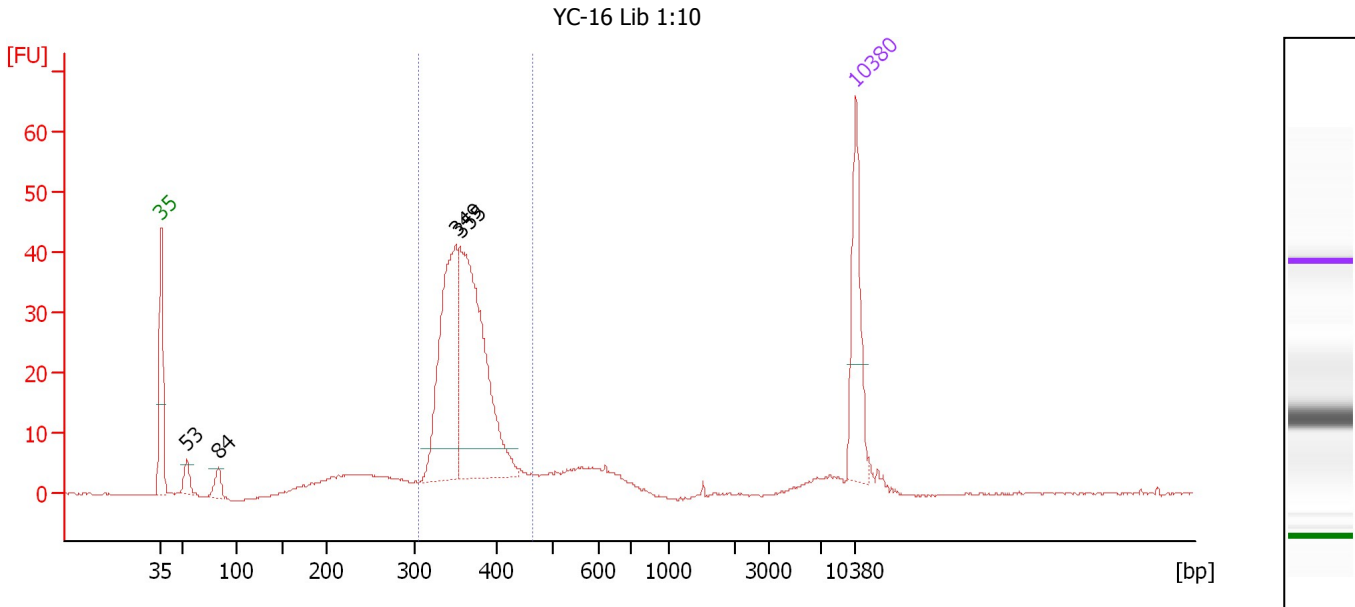
Region table for sample 6 : YC-8-2 Lib 1:5

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
328	983.5	397	256.34	492	137.5	89	7.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : YC-16 Lib 1:10

Number of peaks found: 4 Corr. Area 1: 300.4
 Noise: 0.1

Peak table for sample 7 : YC-16 Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	22.51	640.5	
3	84	21.44	388.7	
4	349	221.02	958.3	
5	355	301.98	1,287.6	
6	10,380	75.00	10.9	Upper Marker

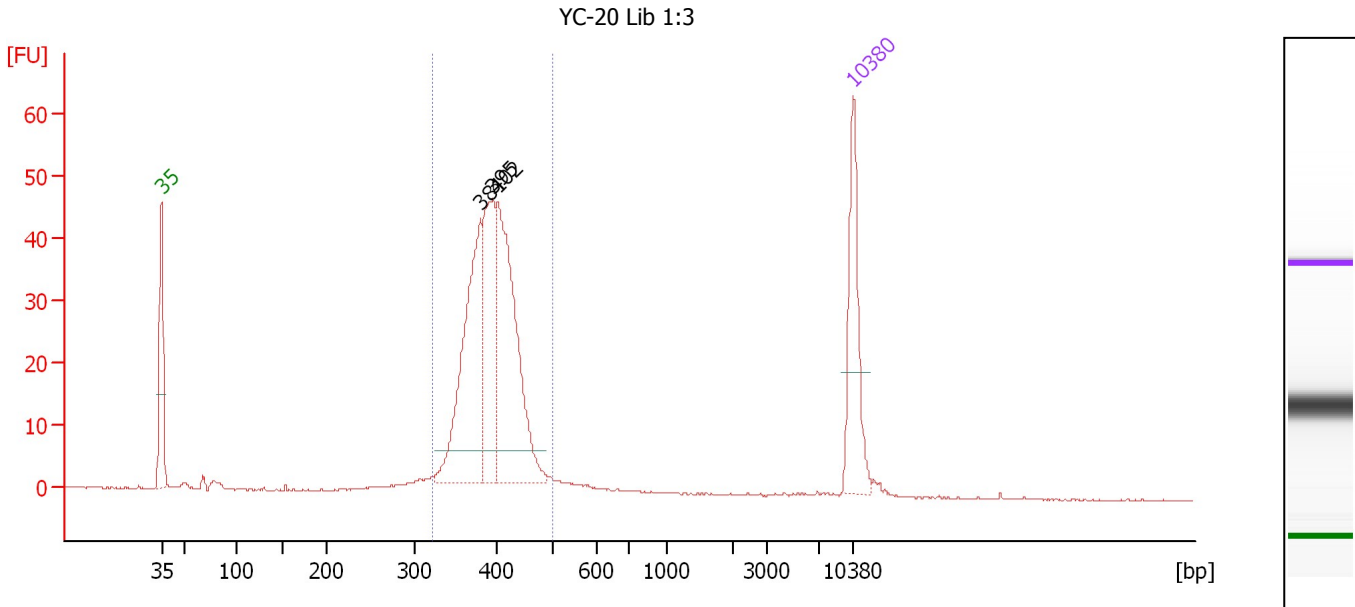
Region table for sample 7 : YC-16 Lib 1:10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
303	2,483.5	363	592.57	463	300.4	72	7.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : YC-20 Lib 1:3

Number of peaks found: 3 Corr. Area 1: 354.7
 Noise: 0.1

Peak table for sample 8 : YC-20 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	381	201.79	801.7	
3	395	125.02	479.4	
4	402	222.21	836.5	
5	10,380	75.00	10.9	Upper Marker

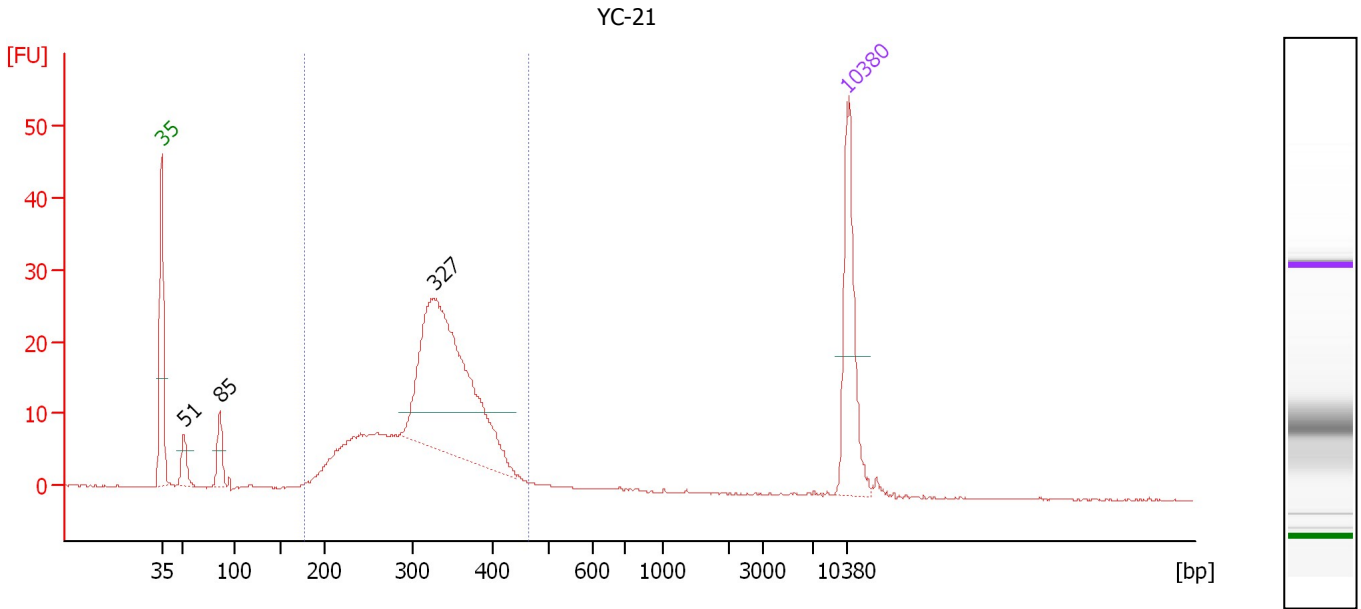
Region table for sample 8 : YC-20 Lib 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
321	2,331.9	397	607.82	502	354.7	90	8.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : YC-21

Number of peaks found: 3 Corr. Area 1: 329.8
 Noise: 0.1

Peak table for sample 9 : YC-21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	25.00	749.8	
3	85	31.12	555.8	
4	327	331.37	1,533.8	
5	10,380	75.00	10.9	Upper Marker

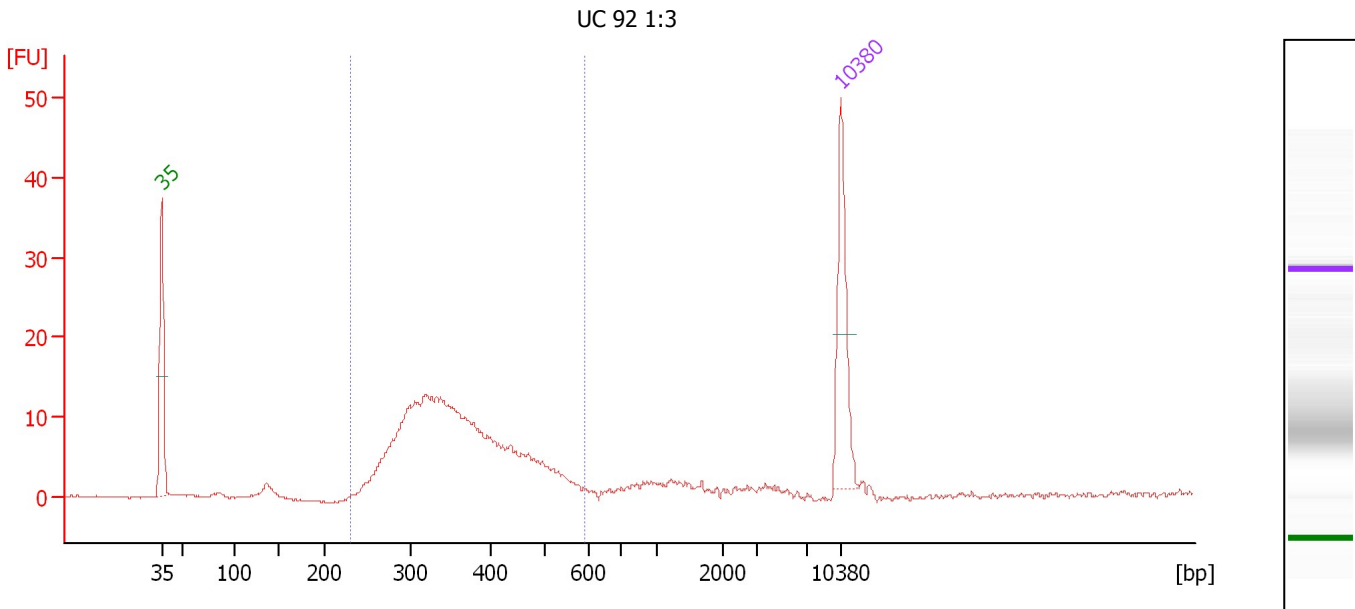
Region table for sample 9 : YC-21

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
178	3,175.6	323	646.60	465	329.8	89	17.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : UC 92 1:3

Number of peaks found: 0 Corr. Area 1: 206.9
 Noise: 0.1

Peak table for sample 10 : UC 92 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

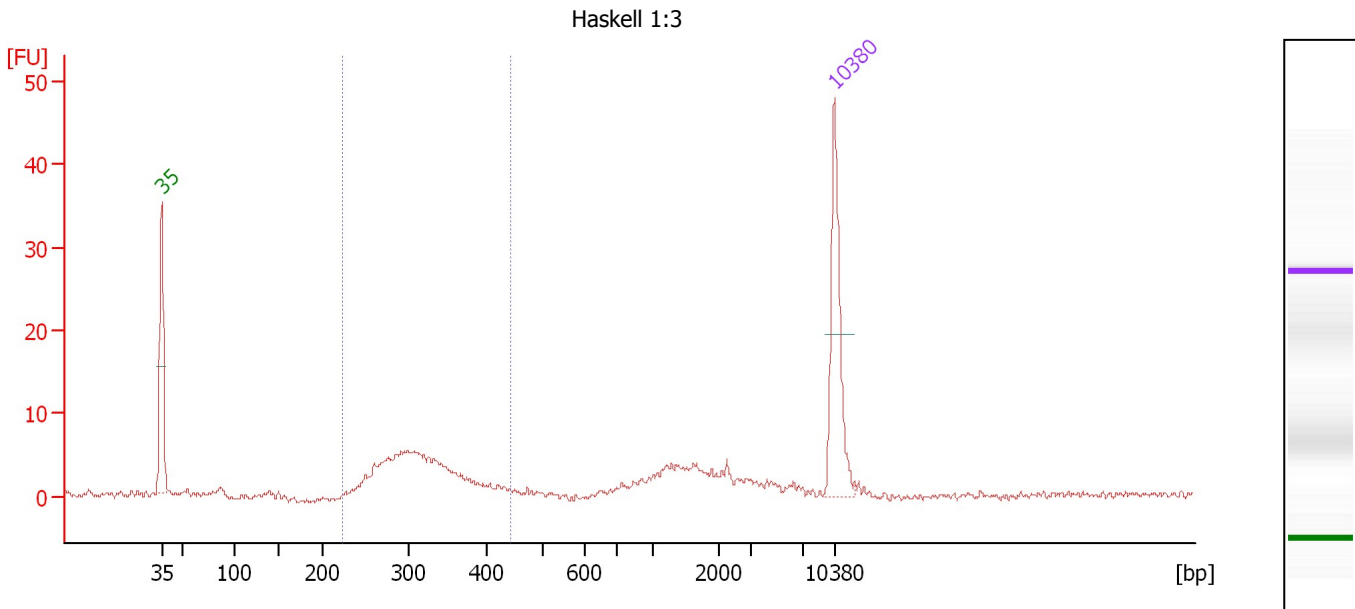
Region table for sample 10 : UC 92 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	2,379.4	365	545.09	590	206.9	87	19.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Haskell 1:3

Number of peaks found: 0 Corr. Area 1: 62.6
 Noise: 0.4

Peak table for sample 11 : Haskell 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

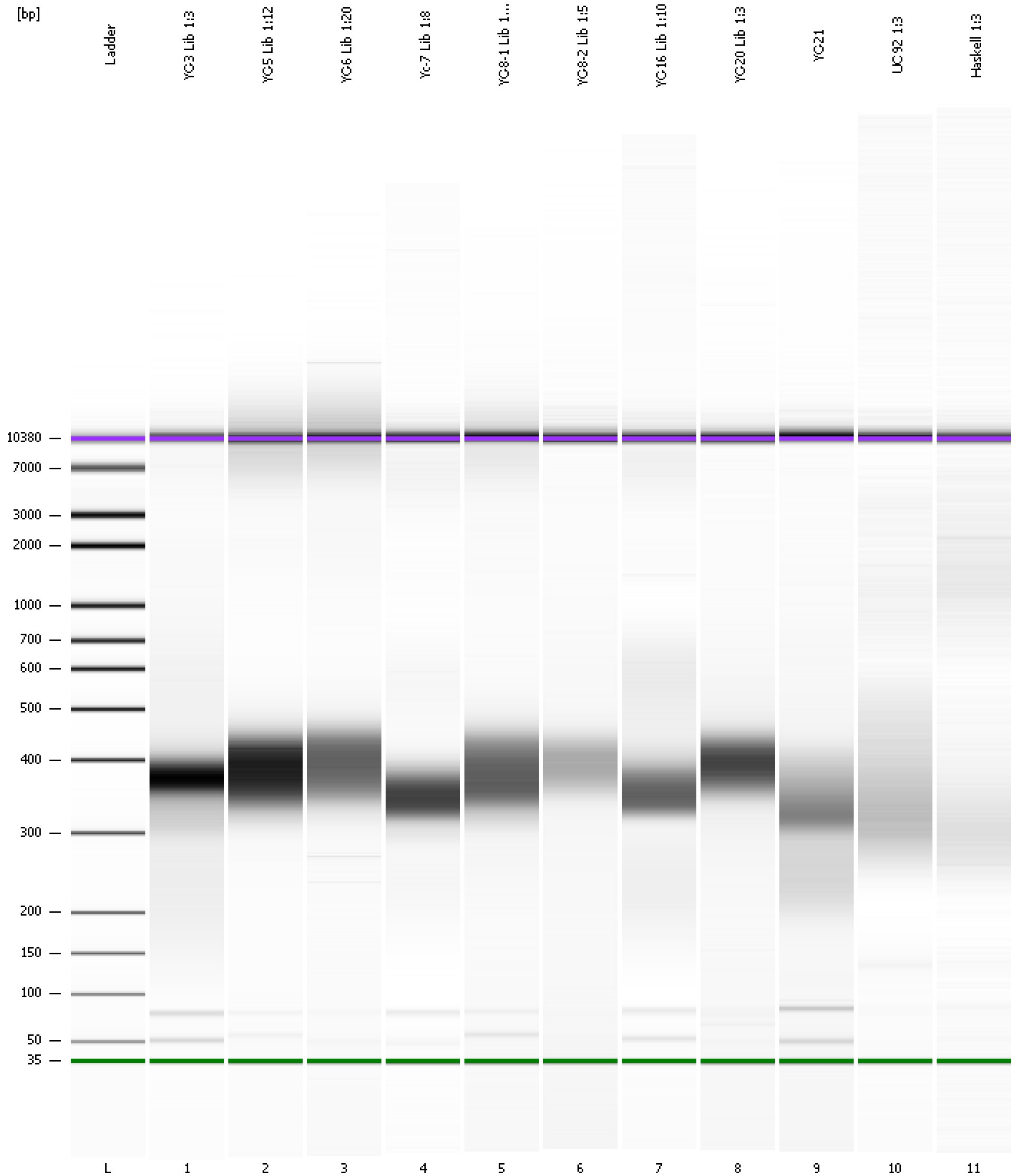
Region table for sample 11 : Haskell 1:3

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
224	827.4	315	168.10	443	62.6	60	13.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
Modified: 4/30/2012 4:35:31 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad

Created: 4/30/2012 3:50:51 PM
 Modified: 4/30/2012 4:35:31 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		4/30/2012 4:32:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-30\2012-04-30_003.xad)		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/30/2012 3:50:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1