

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2015-09-22\2015-09-22_005_HiSeq223_Libraries_19-14.xad

Created: 9/22/2015 3:15:37 PM
Modified: 9/22/2015 4:35:09 PM

Electrophoresis File Run Summary

Instrument Information:

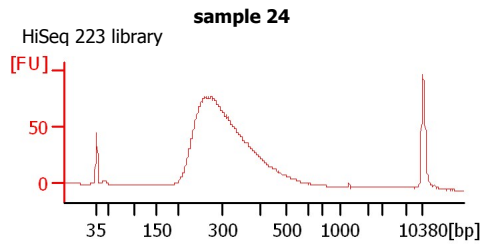
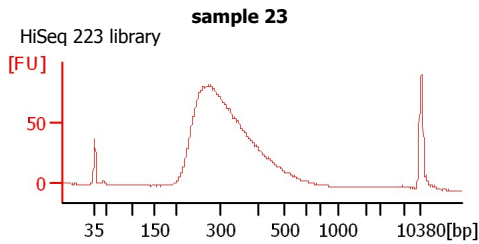
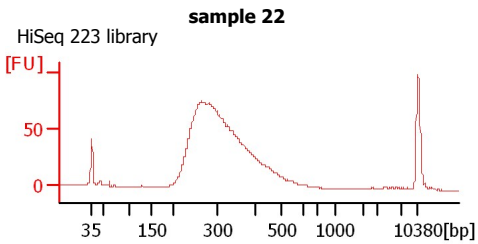
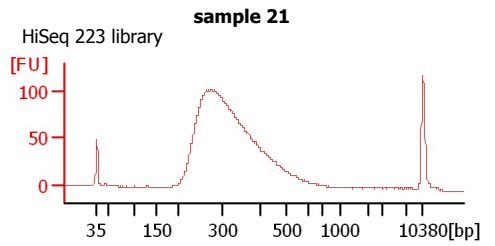
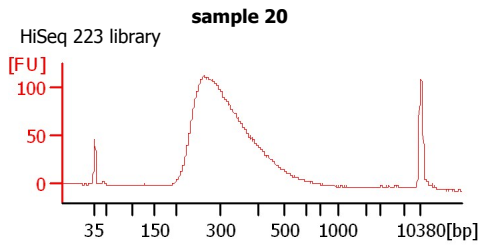
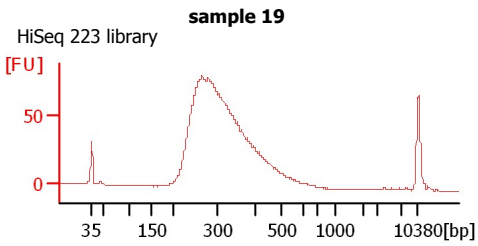
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 19	HiSeq 223 library	<input type="checkbox"/>	✓			
sample 20	HiSeq 223 library	<input type="checkbox"/>	✓			
sample 21	HiSeq 223 library	<input type="checkbox"/>	✓			
sample 22	HiSeq 223 library	<input type="checkbox"/>	✓			
sample 23	HiSeq 223 library	<input type="checkbox"/>	✓			
sample 24	HiSeq 223 library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

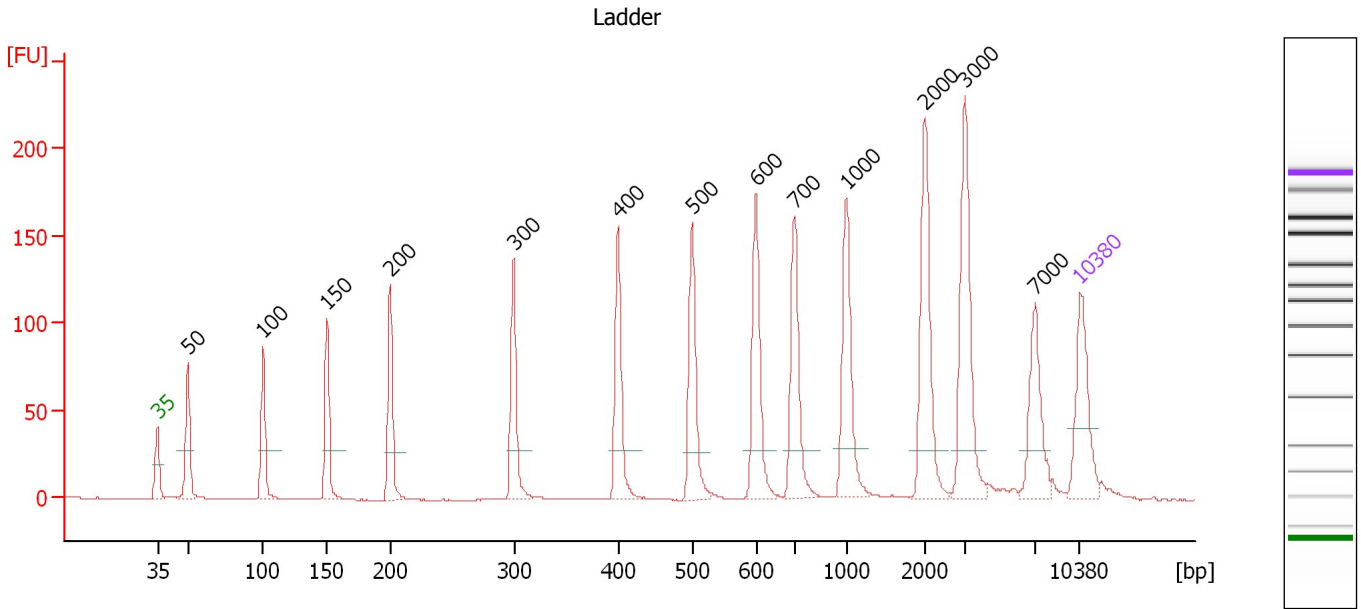
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

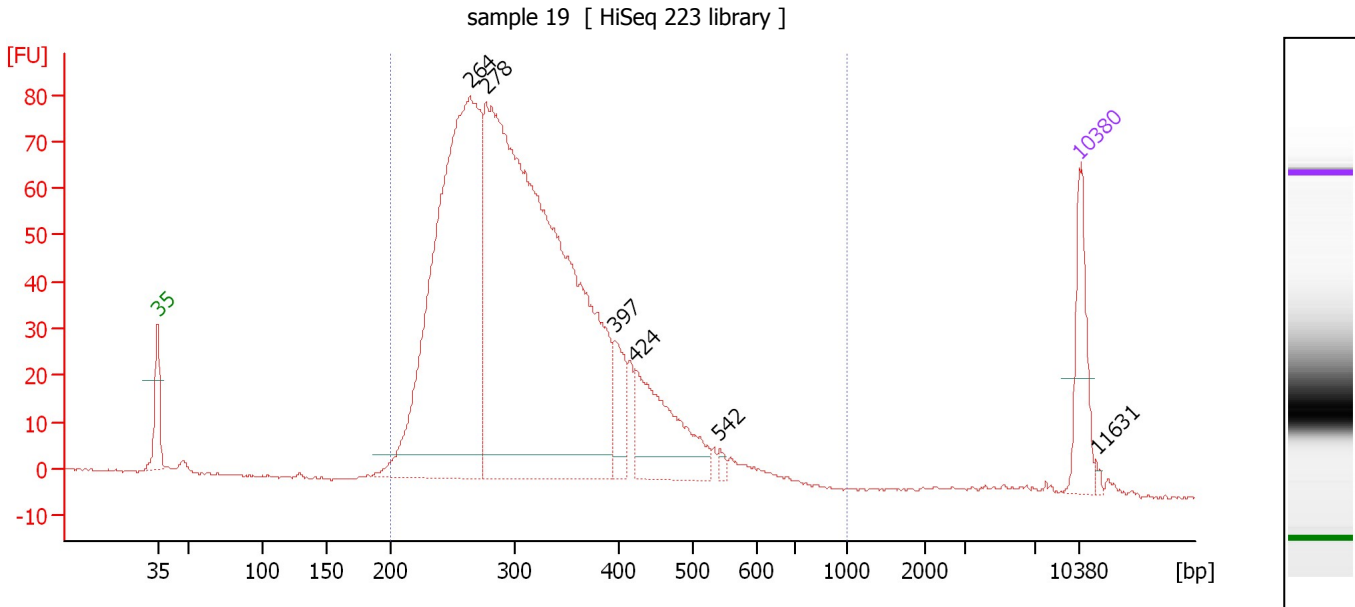
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	51.03
4	150	150.00	1,515.2	Ladder Peak	55.88
5	200	150.00	1,136.4	Ladder Peak	60.65
6	300	150.00	757.6	Ladder Peak	70.04
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.60
9	600	150.00	378.8	Ladder Peak	88.41
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.26
12	2,000	150.00	113.6	Ladder Peak	101.25
13	3,000	150.00	75.8	Ladder Peak	104.29
14	7,000	150.00	32.5	Ladder Peak	109.60
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 19

Number of peaks found: 6 Corr. Area 1: 1,546.1
 Noise: 0.2

Peak table for sample 6 : sample 19

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	264	1,062.81	6,092.1		66.69
3	278	1,704.90	9,300.6		67.95
4	397	69.38	264.9		77.69
5	424	189.06	675.9		79.28
6	542	8.32	23.3		85.63
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,631	0.00	0.0		114.26

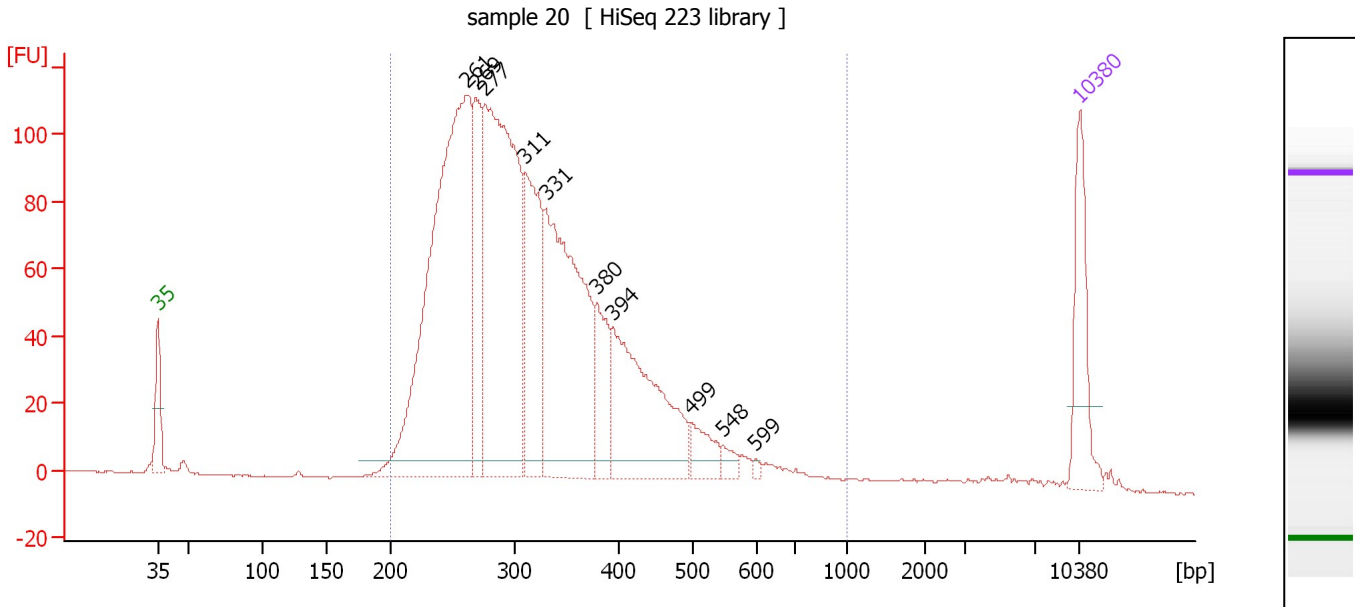
Region table for sample 6 : sample 19

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	322	1,000	1,546.1	14,994.9	99	24.4	2,977.16

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 20

Number of peaks found: 10 Corr. Area 1: 2,290.7
 Noise: 0.2

Peak table for sample 7 : sample 20

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	261	769.77	4,461.6		66.41
3	269	151.66	853.6		67.15
4	277	565.83	3,095.0		67.88
5	311	210.23	1,024.4		70.90
6	331	406.67	1,863.1		72.46
7	380	84.08	335.6		76.32
8	394	243.55	935.7		77.49
9	499	37.88	115.1		83.54
10	548	13.23	36.6		85.93
11	599	3.77	9.5		88.37
12	10,380	75.00	10.9	Upper Marker	113.00

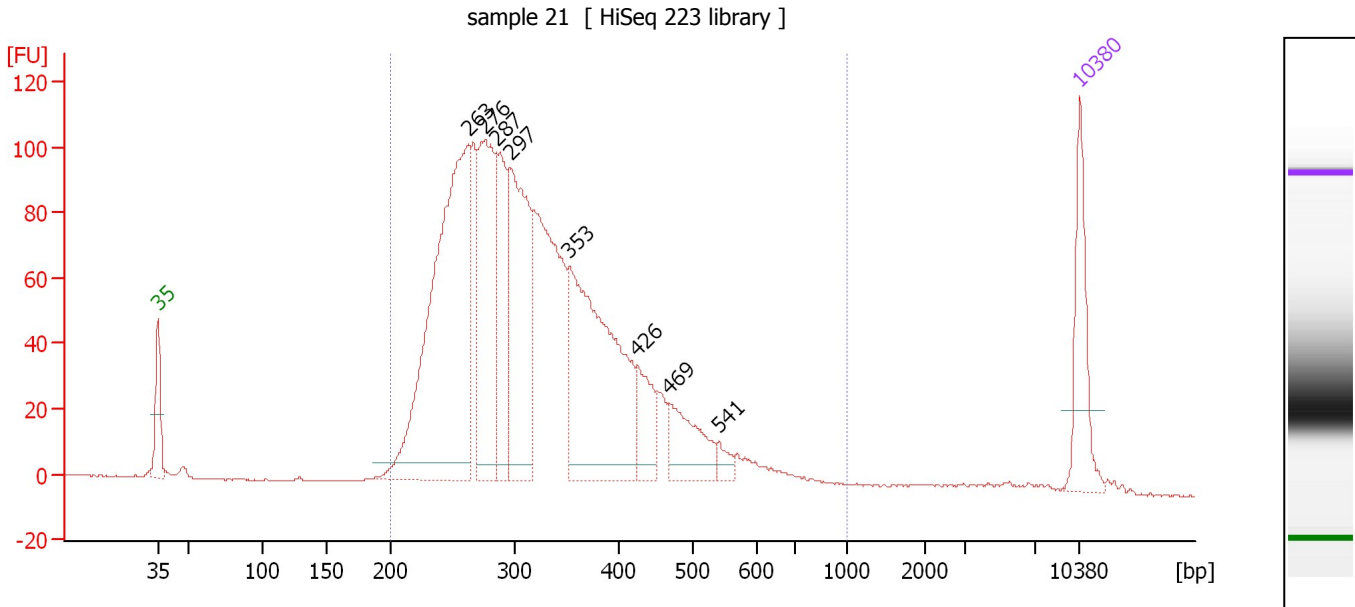
Region table for sample 7 : sample 20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	330	1,000	2,290.7	12,925.6	96	29.3	2,582.76

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 21

Number of peaks found: 8 Corr. Area 1: 2,134.3
 Noise: 0.2

Peak table for sample 8 : sample 21

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	263	630.69	3,628.8		66.59
3	276	271.76	1,489.7		67.82
4	287	148.94	786.7		68.80
5	297	280.50	1,432.1		69.73
6	353	393.54	1,687.6		74.25
7	426	67.63	240.6		79.40
8	469	83.98	271.2		81.85
9	541	15.45	43.3		85.58
10	10,380	75.00	10.9	Upper Marker	113.00

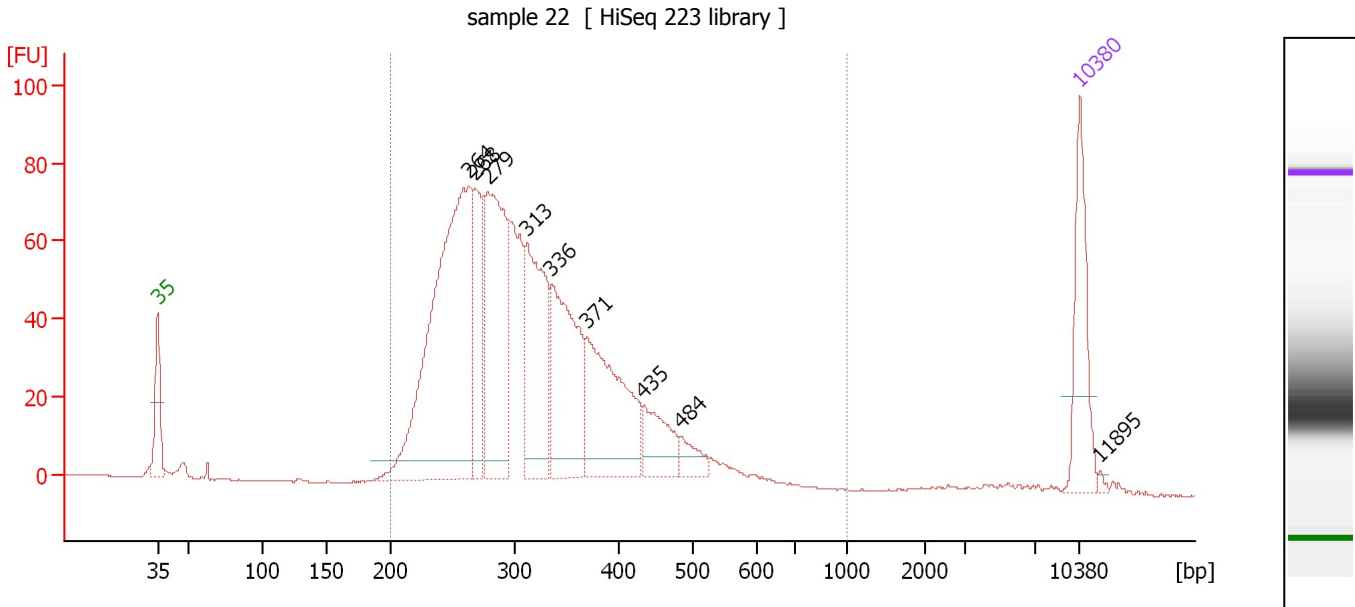
Region table for sample 8 : sample 21

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	333	1,000	2,134.3	12,230.1	97	28.4	2,473.33

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 22

Number of peaks found: 9 Corr. Area 1: 1,450.5
 Noise: 0.2

Peak table for sample 9 : sample 22

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	264	555.04	3,191.3		66.61
3	268	122.62	692.7		67.05
4	279	272.79	1,480.2		68.09
5	313	199.68	967.6		71.04
6	336	200.34	902.4		72.91
7	371	190.86	780.2		75.61
8	435	60.13	209.6		79.89
9	484	23.67	74.1		82.70
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,895	0.00	0.0		114.52

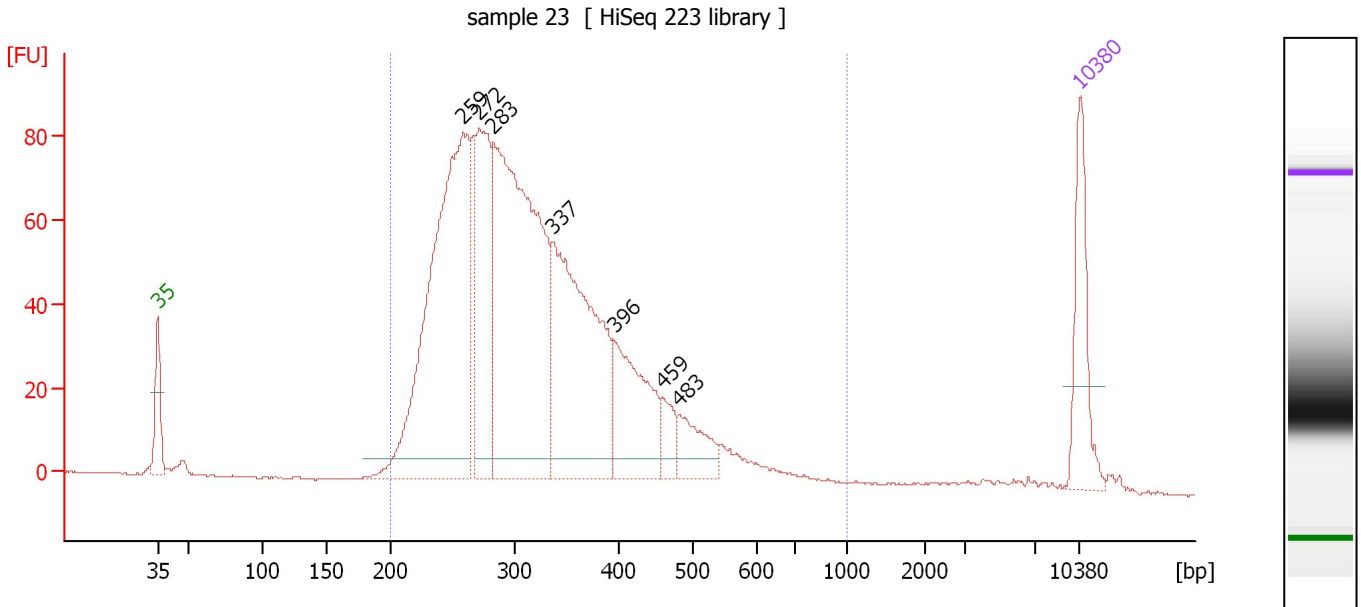
Region table for sample 9 : sample 22

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	321	1,000	1,450.5	9,450.8	98	24.5	1,874.05

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Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 23

Number of peaks found: 7 Corr. Area 1: 1,675.0
 Noise: 0.2

Peak table for sample 10 : sample 23

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	259	640.36	3,744.0		66.20
3	272	227.86	1,267.8		67.44
4	283	636.48	3,403.1		68.48
5	337	379.27	1,703.9		72.98
6	396	149.56	572.0		77.63
7	459	33.52	110.6		81.29
8	483	54.50	171.0		82.63
9	10,380	75.00	10.9	Upper Marker	113.00

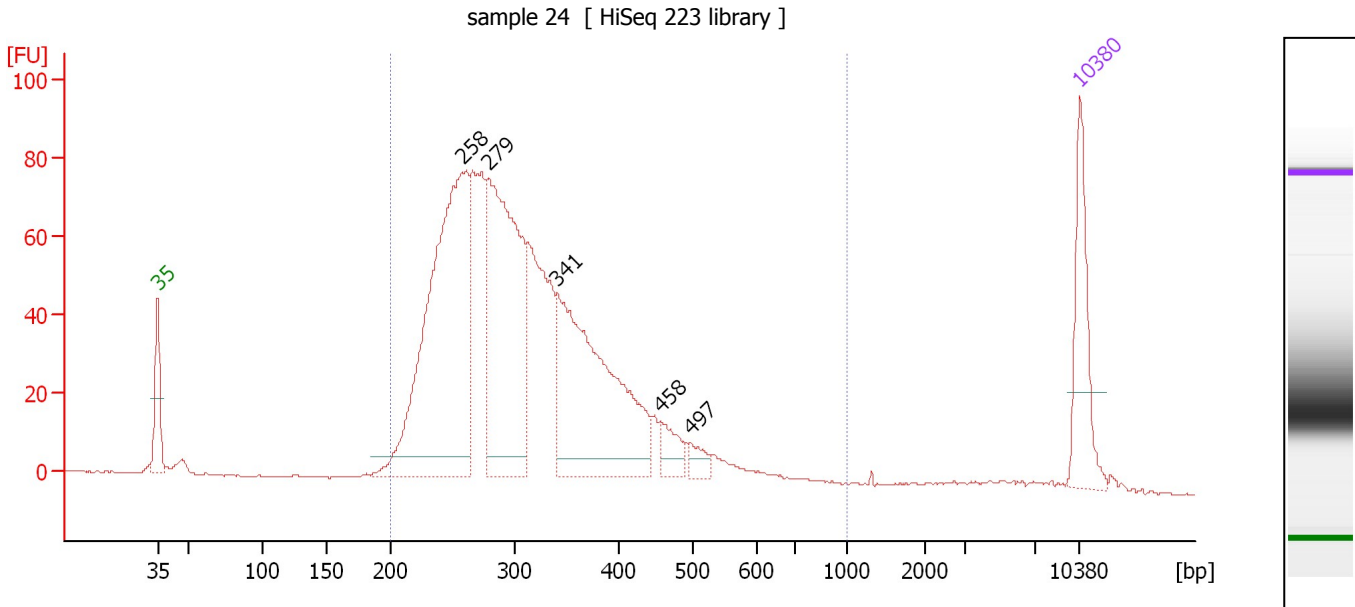
Region table for sample 10 : sample 23

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	331	1,000	1,675.0	11,186.3	97	28.8	2,241.77

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Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 24

Number of peaks found: 5 Corr. Area 1: 1,492.4
 Noise: 0.2

Peak table for sample 11 : sample 24

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	258	579.73	3,401.4		66.12
3	279	414.84	2,253.0		68.06
4	341	373.13	1,656.0		73.31
5	458	31.80	105.3		81.20
6	497	16.96	51.7		83.44
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 24

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	322	1,000	1,492.4	9,650.7	97	27.7	1,897.12

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Created: 9/22/2015 3:15:37 PM
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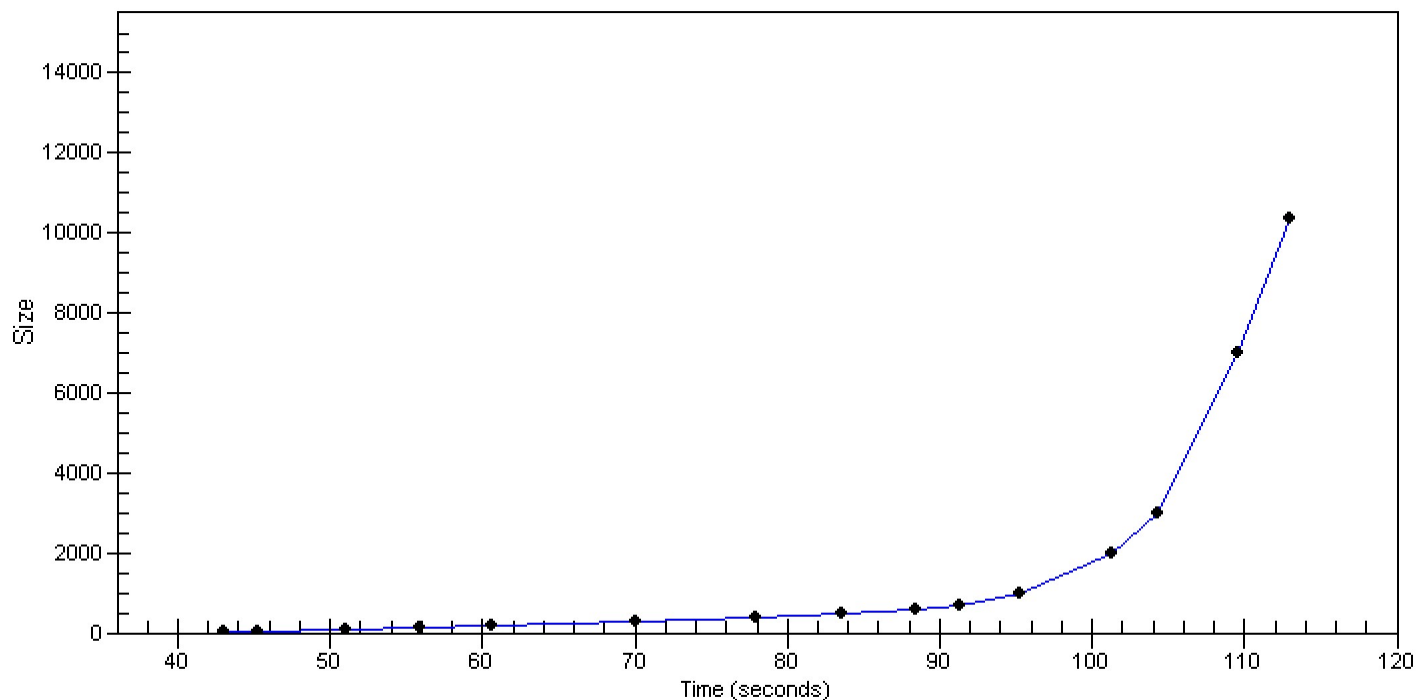
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2015-09-22\2015-09-22_005_HiSeq223_Libraries_19-14.xad

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Curves

Standard Curve



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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		9/22/2015 3:56:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-09-22\2015-09-22_005.xad)		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/22/2015 3:15:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1