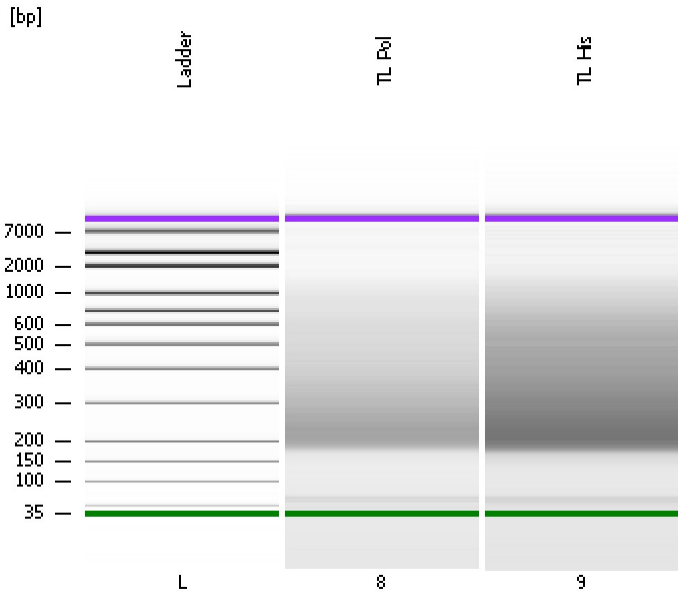


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:53:58 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

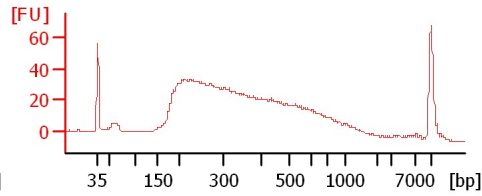
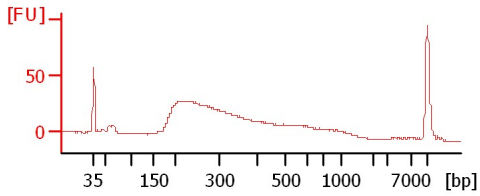
Assay Class: High Sensitivity DNA Assay
 Version: 1.03
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

TL Pol

TL His



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:53:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TL Pol		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
TL His		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Ladder		<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:53:58 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

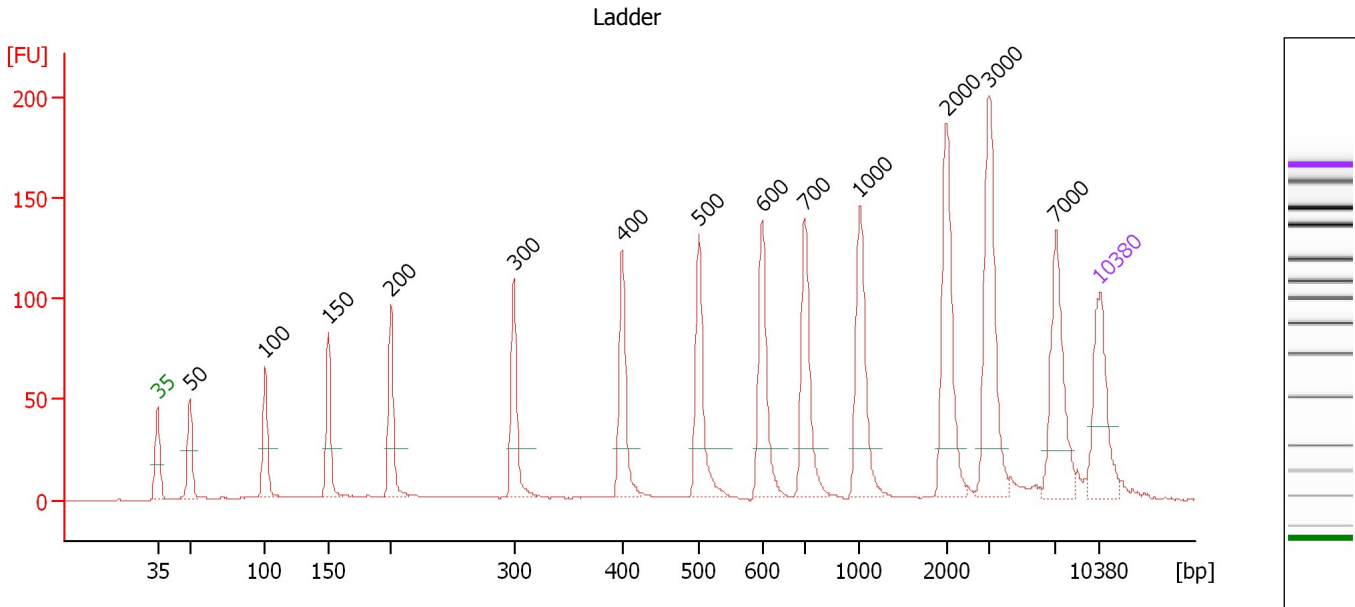
Ladder

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:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

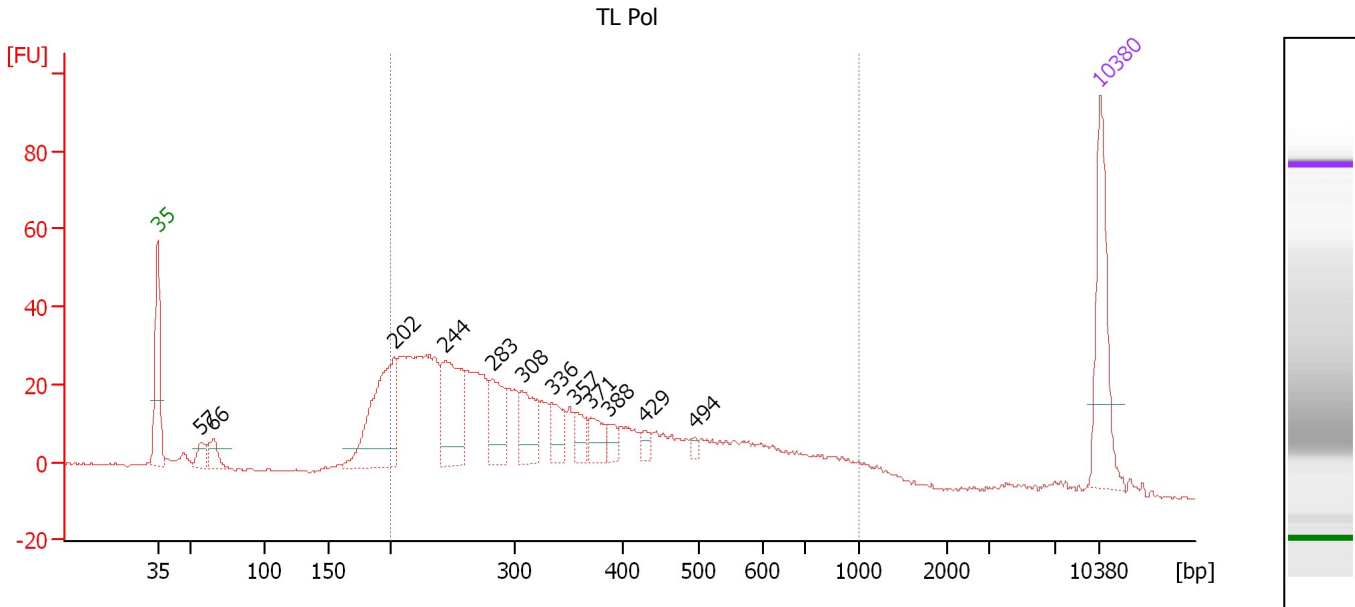
Peak table for Ladder

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	45.39
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.46
7	400	150.00	568.2	Ladder Peak	77.51
8	500	150.00	454.5	Ladder Peak	83.22
9	600	150.00	378.8	Ladder Peak	87.91
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.17
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.77
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TL Pol

Number of peaks found: 12 Corr. Area 1: 798.1
 Noise: 0.3

Peak table for sample 8 : TL Pol

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	57	18.13	479.4		46.20
3	66	23.96	552.1		47.15
4	202	154.38	1,155.2		60.57
5	244	109.94	681.8		64.39
6	283	55.79	299.1		67.87
7	308	52.22	257.1		70.09
8	336	27.91	125.9		72.35
9	357	20.27	86.0		74.04
10	371	22.13	90.4		75.17
11	388	12.34	48.2		76.54
12	429	8.16	28.8		79.18
13	494	4.79	14.7		82.90
14	10,380	75.00	10.9	Upper Marker	113.00

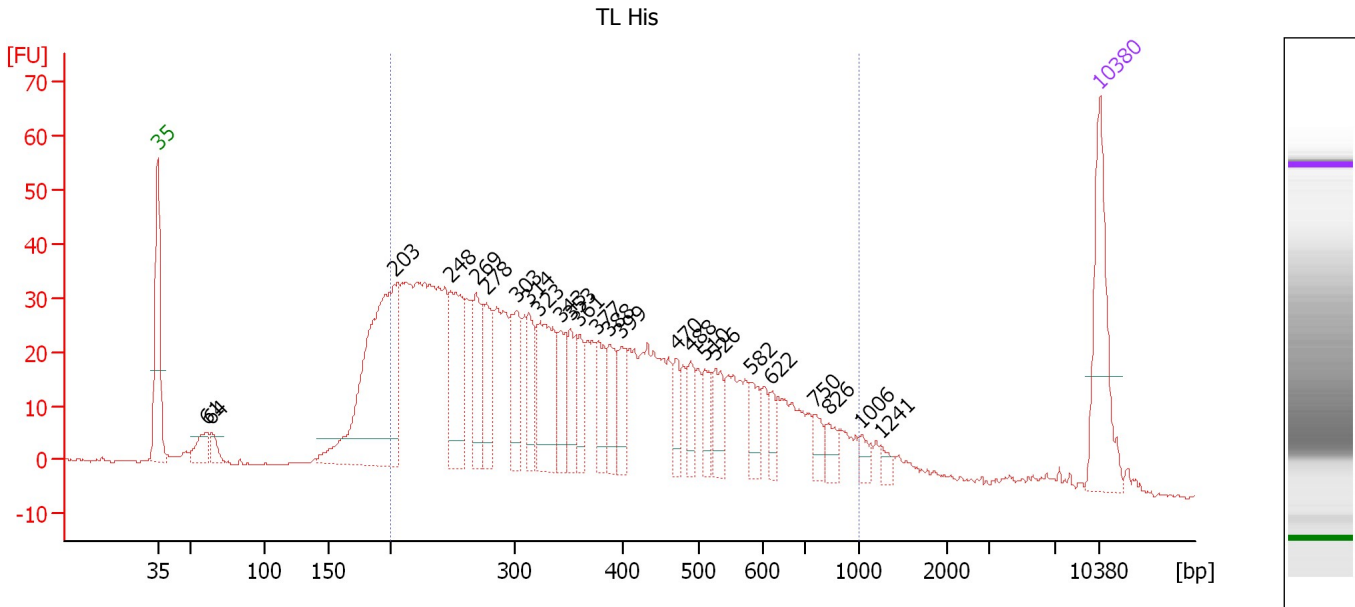
Region table for sample 8 : TL Pol

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	372	798.1	5,428.4	1,092.56	82	44.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:53:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TL His

Number of peaks found: 25 Corr. Area 1: 1,129.6
 Noise: 0.3

Peak table for sample 9 : TL His

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	61	25.87	641.7		46.62
3	64	15.44	362.8		47.00
4	203	296.27	2,207.2		60.65
5	248	102.62	626.2		64.75
6	269	61.02	343.1		66.68
7	278	60.91	332.3		67.43
8	303	58.20	291.1		69.69
9	314	45.88	221.4		70.59
10	323	94.35	442.1		71.34
11	343	39.49	174.6		72.89
12	353	35.75	153.7		73.69
13	361	31.61	132.8		74.35
14	377	38.10	153.1		75.67
15	388	34.25	133.9		76.52
16	399	29.18	110.7		77.46
17	470	23.10	74.5		81.51
18	488	24.19	75.1		82.54
19	510	20.93	62.2		83.67
20	526	29.53	85.1		84.43
21	582	22.86	59.5		87.06
22	622	14.66	35.7		88.62
23	750	15.52	31.4		91.77
24	826	14.41	26.4		92.80
25	1,006	10.15	15.3		95.21

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:53:58 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : TL His

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,241	7.19	8.8		96.71
27	10,380	75.00	10.9	Upper Marker	113.00

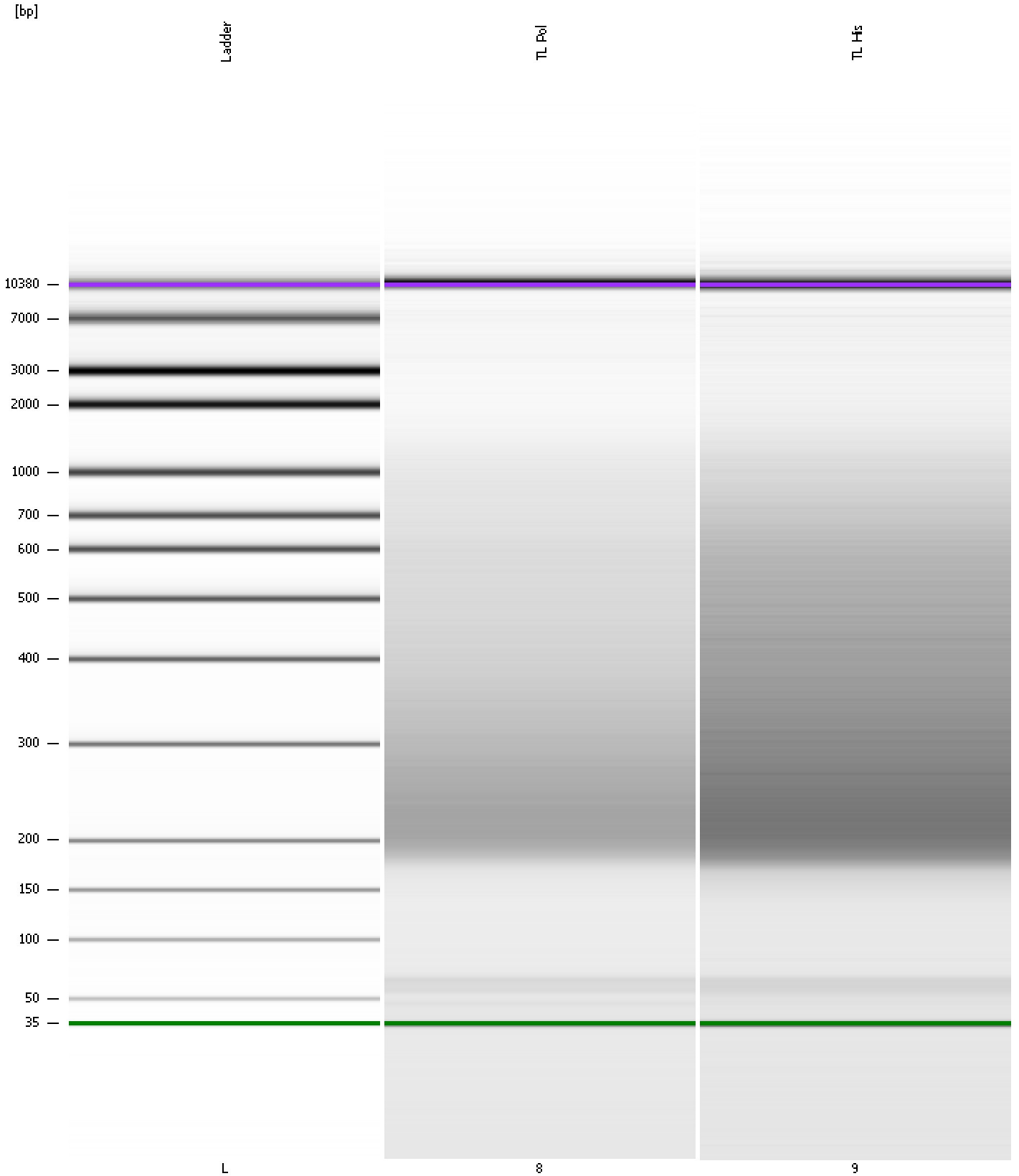
Region table for sample 9 : TL His

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	392	1,129.6	8,514.6	1,801.47	82	41.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:53:58 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...rt\data\2016-03-11\2016-03-11_003_HiSeq_442_TLPol_TLHis.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:53:58 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		3/11/2016 1:23:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-11\2016-03-11_003.xad)		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/11/2016 12:43:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1