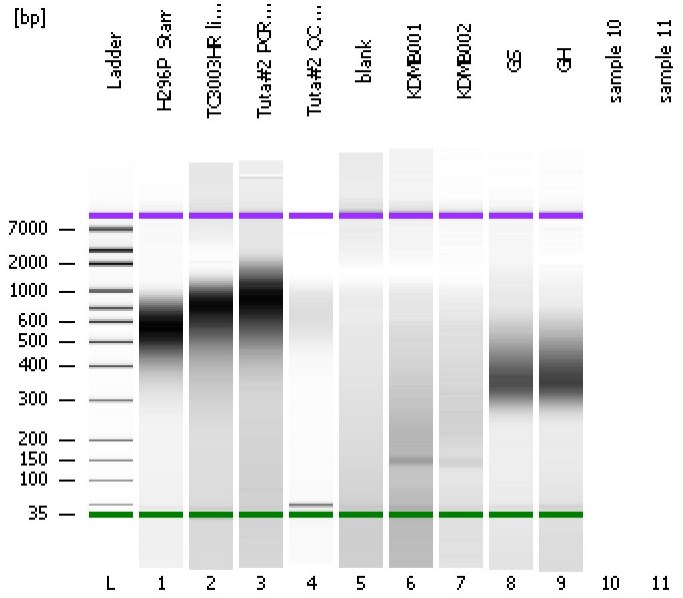
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 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

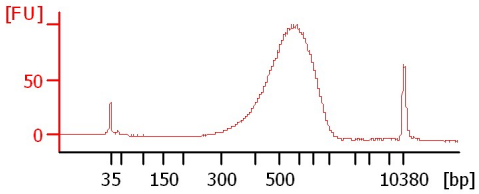
Chip Information:

Chip Lot #:

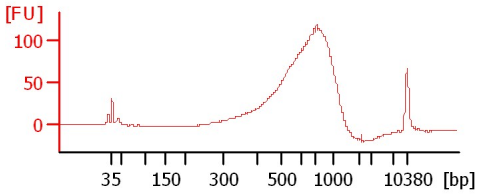
Reagent Kit Lot #:

Chip Comments:

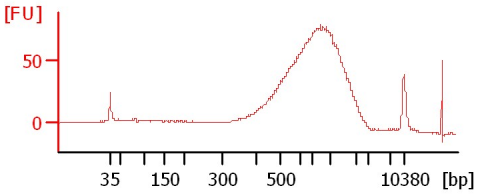
H296P_Starr



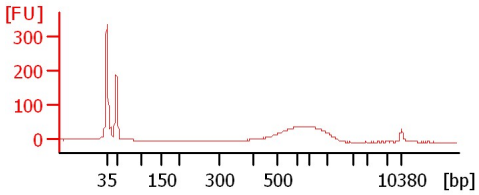
TC3003HR library



Tuta#2 PCR Free Library



Tuta#2 QC PCR



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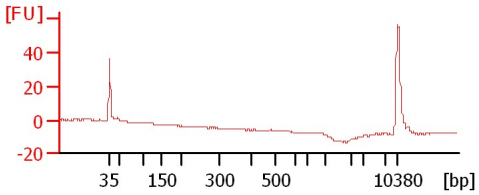
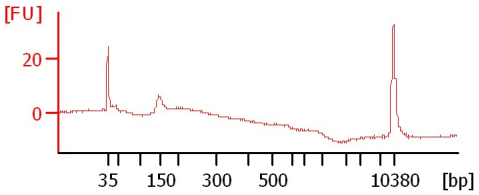
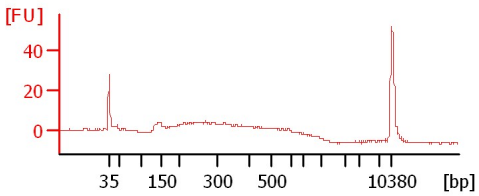


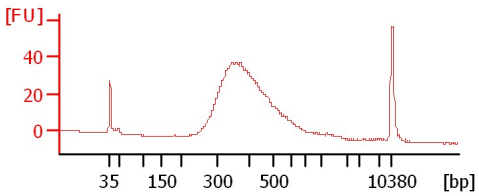
KDMB001



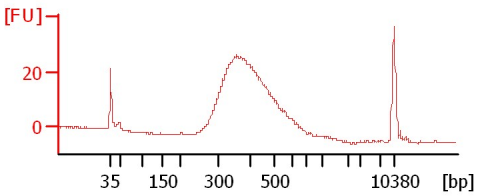
KDMB002



GS



GH



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H296P_Starr		☐	✔			
TC3003HR library		☐	✔			
Tuta#2 PCR Free Library		☐	✔			
Tuta#2 QC PCR		☐	✔			
blank		☐	✔			
KDMB001		☐	✔			
KDMB002		☐	✔			
GS		☐	✔			
GH		☐	✔			
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 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

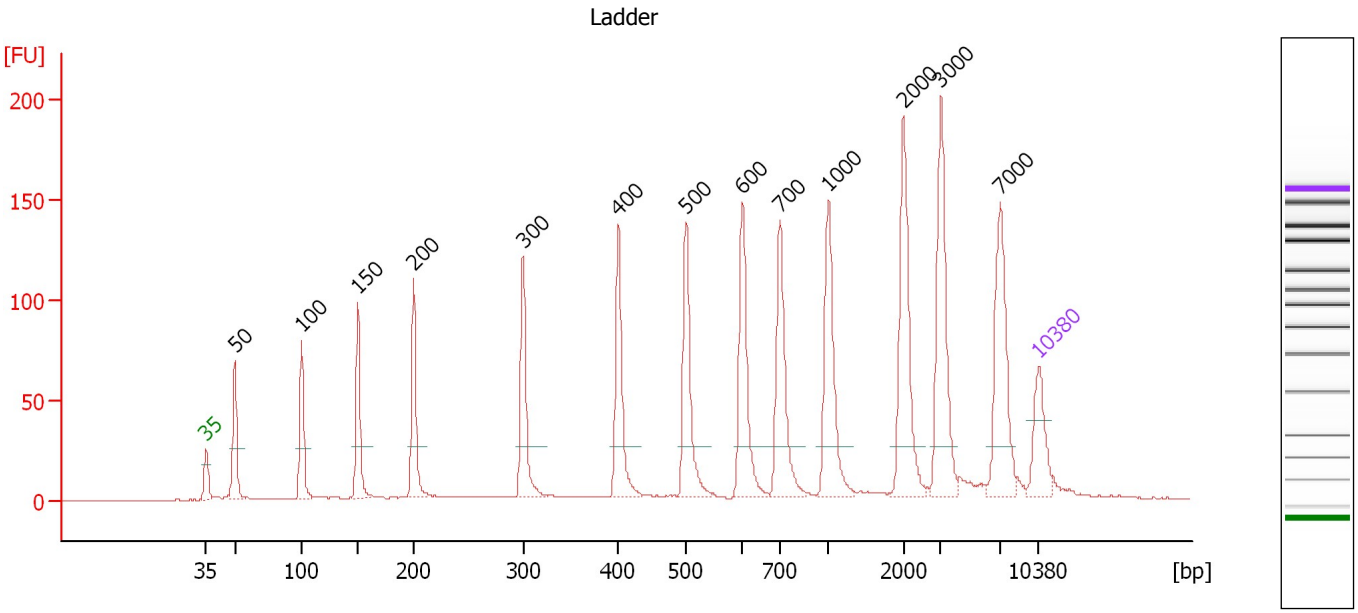
Ladder

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\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

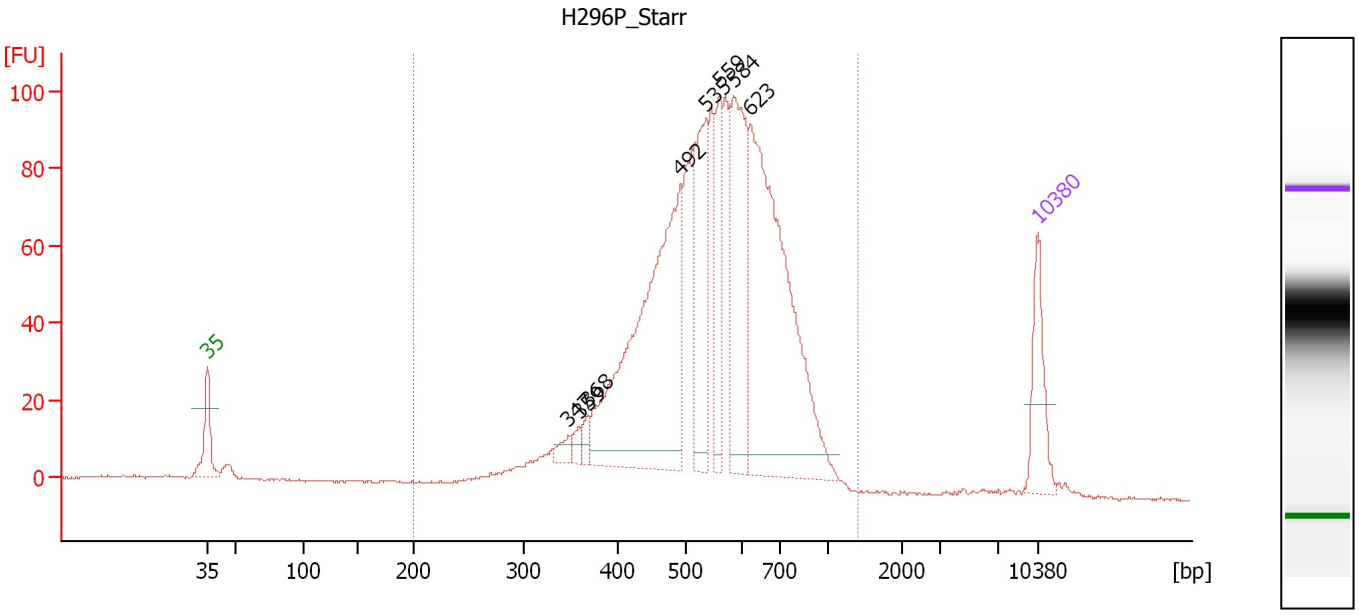
Peak table for Ladder

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	45.38
3		100	150.00	2,272.7	Ladder Peak	51.03
4		150	150.00	1,515.2	Ladder Peak	55.74
5		200	150.00	1,136.4	Ladder Peak	60.44
6		300	150.00	757.6	Ladder Peak	69.64
7		400	150.00	568.2	Ladder Peak	77.66
8		500	150.00	454.5	Ladder Peak	83.36
9		600	150.00	378.8	Ladder Peak	88.11
10		700	150.00	324.7	Ladder Peak	91.21
11		1,000	150.00	227.3	Ladder Peak	95.33
12		2,000	150.00	113.6	Ladder Peak	101.61
13		3,000	150.00	75.8	Ladder Peak	104.75
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:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H296P_Starr

Number of peaks found:	8	Corr. Area 1:	1,614.3
Noise:	0.2		

Peak table for sample 1 : H296P_Starr

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	347	18.77	81.9		73.44
3	359	16.95	71.6		74.34
4	368	18.16	74.7		75.10
5	492	610.70	1,882.4		82.88
6	535	197.54	559.2		85.04
7	559	118.73	321.8		86.16
8	584	263.88	684.1		87.37
9	623	589.10	1,433.5		88.81
10	10,380	75.00	10.9	Upper Marker	113.00

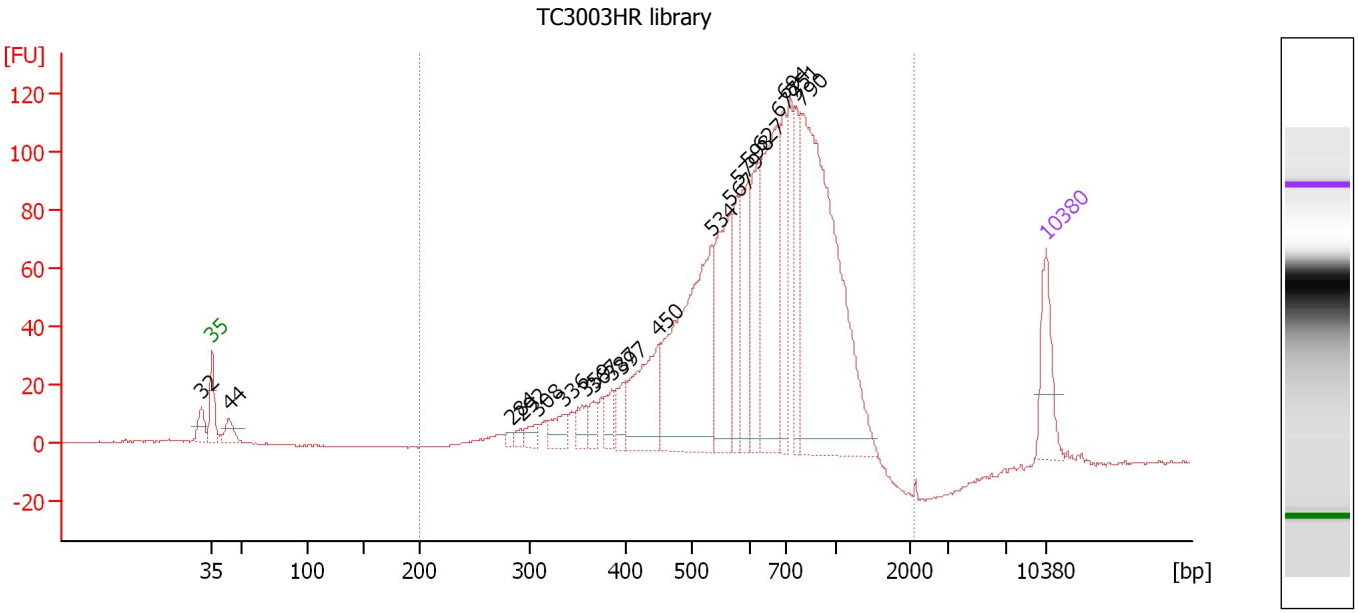
Region table for sample 1 : H296P_Starr

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,395	559	1,614.3	7,599.6	2,574.38	97	24.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TC3003HR library

Number of peaks found:	20	Corr. Area 1:	1,893.1
Noise:	0.2		

Peak table for sample 2 : TC3003HR library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.06
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	40.41	1,399.1		44.39
4	284	9.10	48.6		68.12
5	292	11.62	60.2		68.93
6	308	23.27	114.5		70.27
7	336	41.69	187.8		72.56
8	359	35.67	150.4		74.39
9	367	25.33	104.5		75.02
10	387	32.78	128.5		76.59
11	397	36.43	139.0		77.44
12	450	168.54	568.0		80.49
13	534	422.68	1,199.8		84.96
14	567	207.50	554.7		86.53
15	579	91.15	238.5		87.11
16	598	134.83	341.7		88.01
17	627	122.45	295.9		88.95
18	679	301.96	673.6		90.56
19	694	111.96	244.5		91.01
20	751	110.83	223.6		91.91
21	790	656.65	1,259.5		92.44
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...

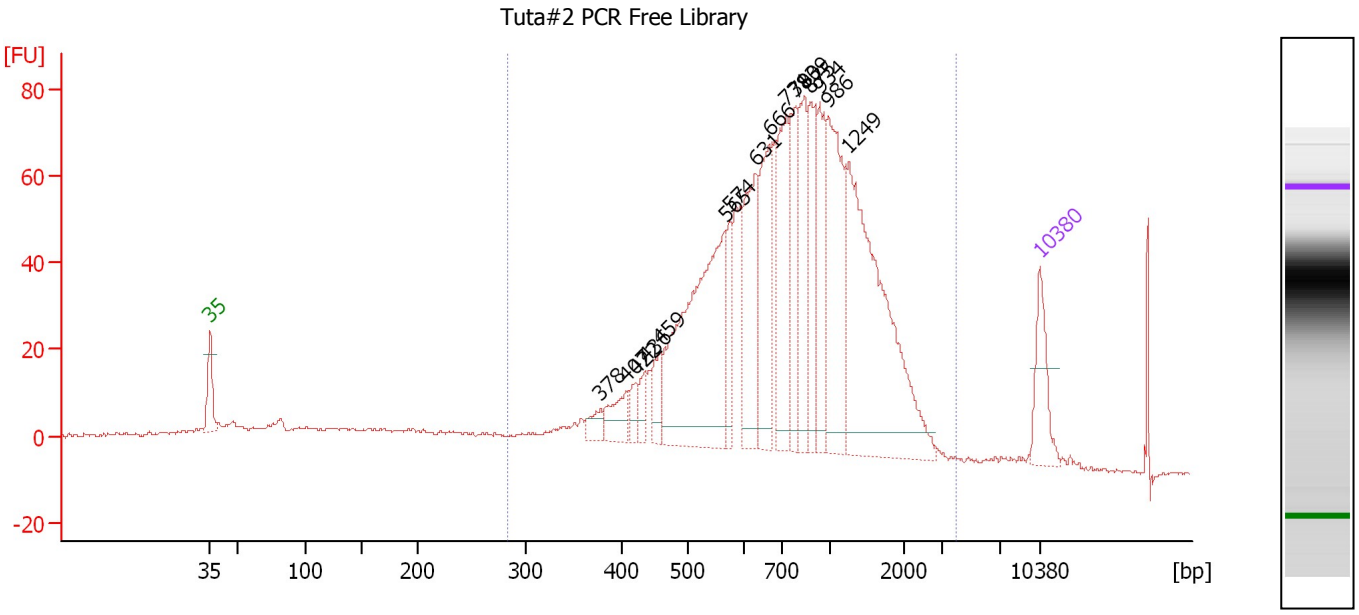
... Region table for sample 2 : TC3003HR library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	2,083	666	1,893.1	7,466.5	2,796.74	96	33.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Tuta#2 PCR Free Library

Number of peaks found:	16	Corr. Area 1:	1,501.2
Noise:	0.3		

Peak table for sample 3 : Tuta#2 PCR Free Library

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	378	29.80	119.3		75.93
3	407	60.67	225.6		78.09
4	422	27.52	98.9		78.90
5	436	31.77	110.4		79.71
6	459	50.28	166.0		81.01
7	565	500.75	1,342.4		86.46
8	574	78.78	208.1		86.86
9	631	212.67	510.8		89.07
10	666	177.51	404.0		90.15
11	731	209.79	434.9		91.63
12	790	136.19	261.3		92.44
13	839	143.82	259.8		93.12
14	875	140.64	243.6		93.61
15	934	140.79	228.5		94.42
16	986	245.90	377.8		95.14
17	1,249	509.87	618.6		96.89
18	10,380	75.00	10.9	Upper Marker	113.00

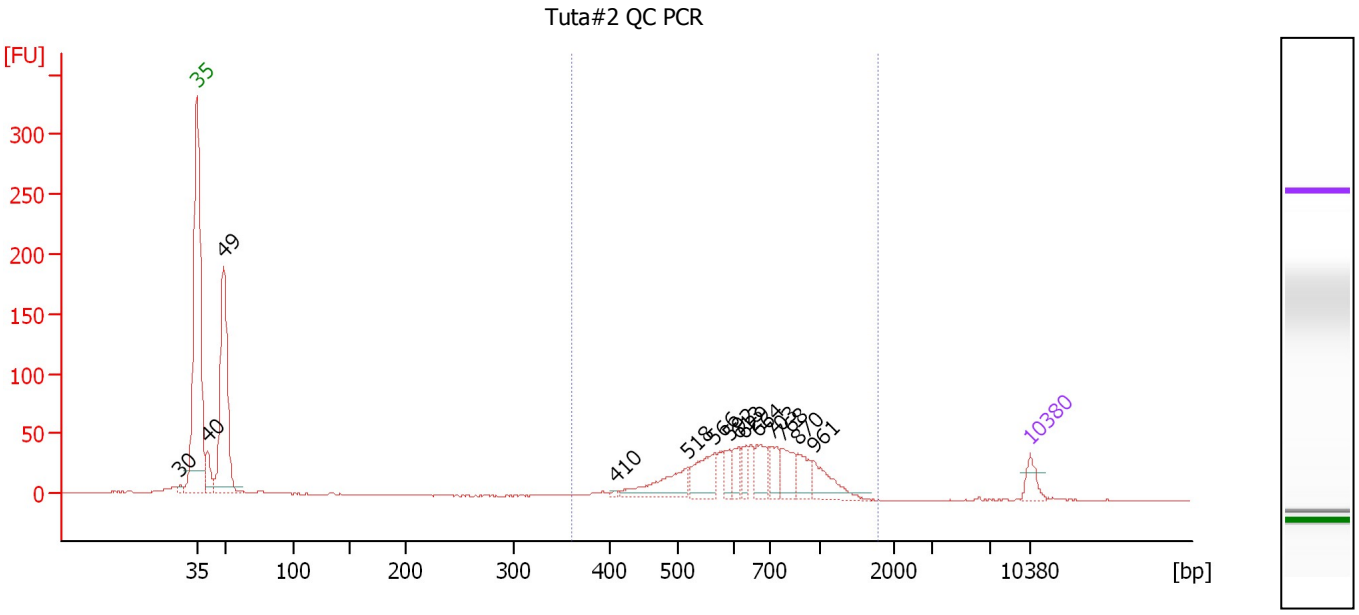
Region table for sample 3 : Tuta#2 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
284	3,916	884	1,501.2	7,293.3	3,245.30	87	52.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Tuta#2 QC PCR

Number of peaks found:	14	Corr. Area 1:	623.3
Noise:	0.3		

Peak table for sample 4 : Tuta#2 QC PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.57
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	175.13	6,571.8		43.85
4	49	1,440.12	44,650.9		45.20
5	410	12.92	47.7		78.25
6	518	281.09	822.3		84.21
7	566	251.68	673.7		86.50
8	592	89.41	228.7		87.75
9	613	92.99	229.8		88.52
10	629	90.08	217.0		89.01
11	664	169.87	387.8		90.09
12	703	128.41	276.7		91.25
13	768	177.98	350.9		92.15
14	870	133.03	231.8		93.54
15	961	181.44	286.1		94.79
16	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : Tuta#2 QC PCR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
360	1,792	693	623.3	4,266.7	1,782.07	59	28.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

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Modified: 12/30/2015 3:10:06 PM

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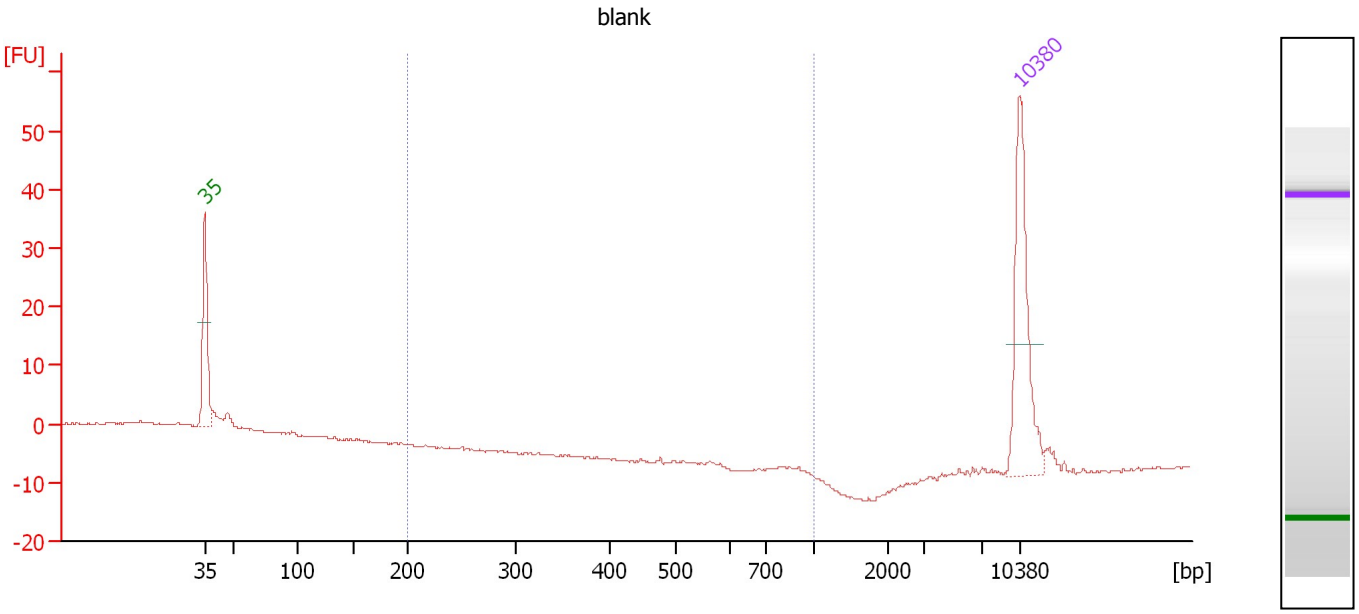


Overall Results for sample 5 : blank

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.2		

Peak table for sample 5 : blank

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	10,380	75.00	10.9	Upper Marker	113.00

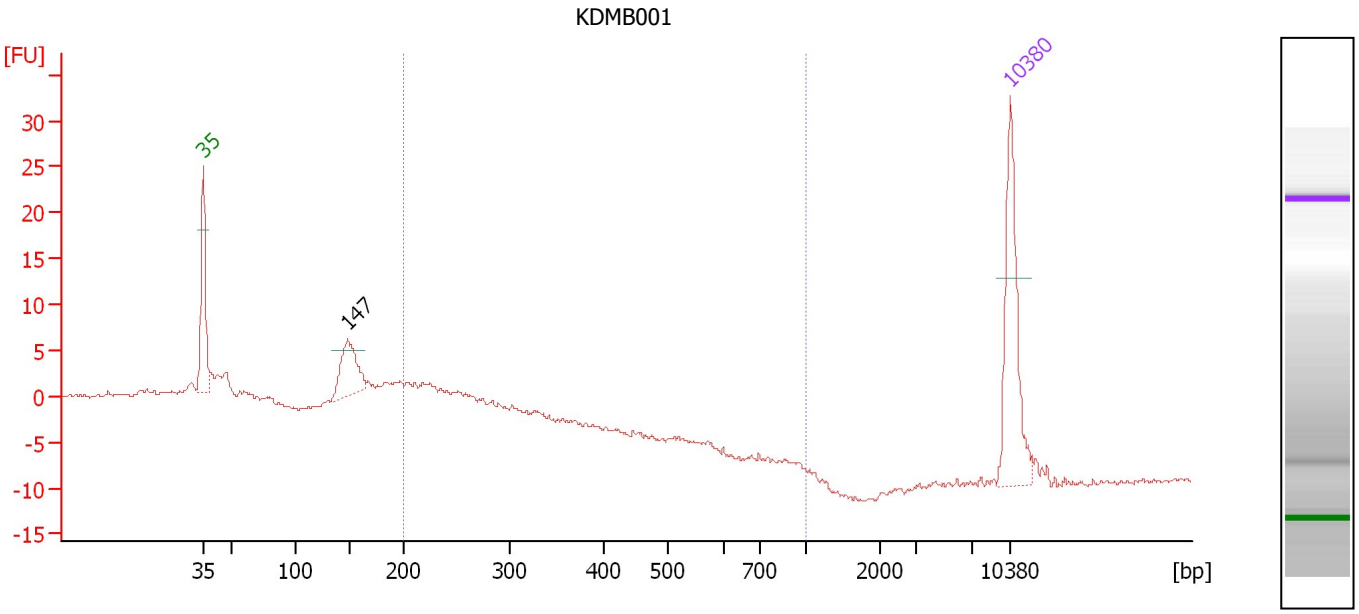
Region table for sample 5 : blank

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KDMB001

Number of peaks found:	1	Corr. Area 1:	70.0
Noise:	0.2		

Peak table for sample 6 : KDMB001

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		147	59.92	616.3		55.48
3	▶	10,380	75.00	10.9	Upper Marker	113.00

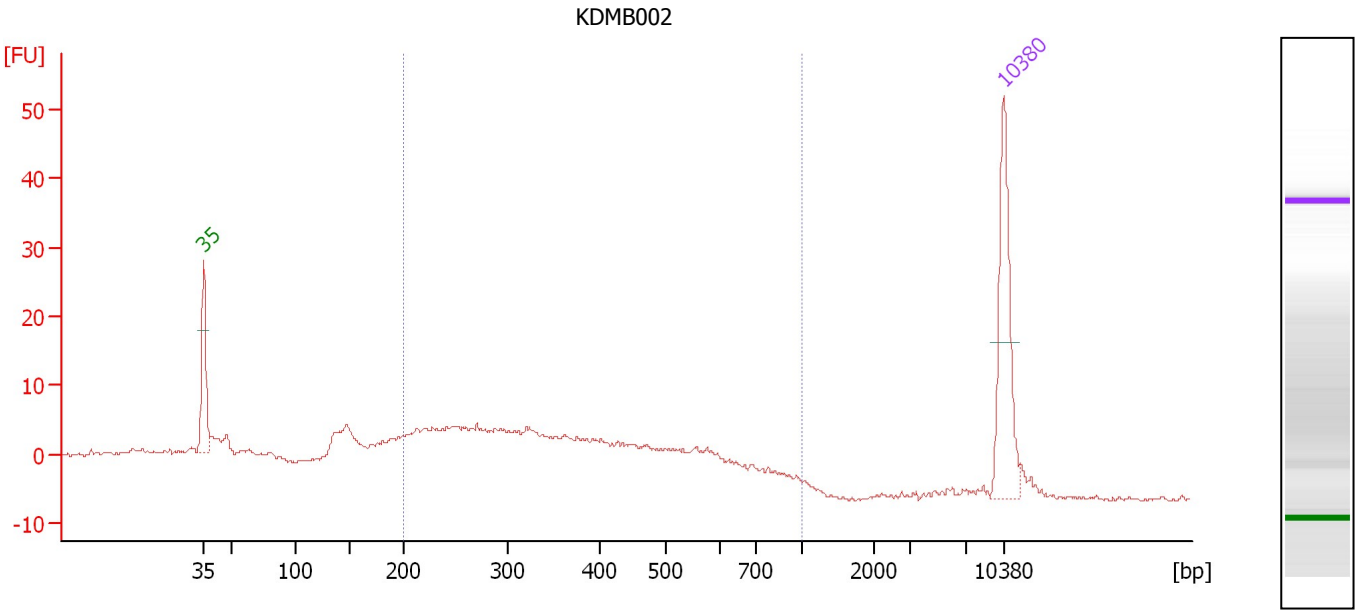
Region table for sample 6 : KDMB001

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	284	70.0	1,120.2	197.79	39	24.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KDMB002

Number of peaks found:	0	Corr. Area 1:	220.2
Noise:	0.3		

Peak table for sample 7 : KDMB002

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	10,380	75.00	10.9	Upper Marker	113.00

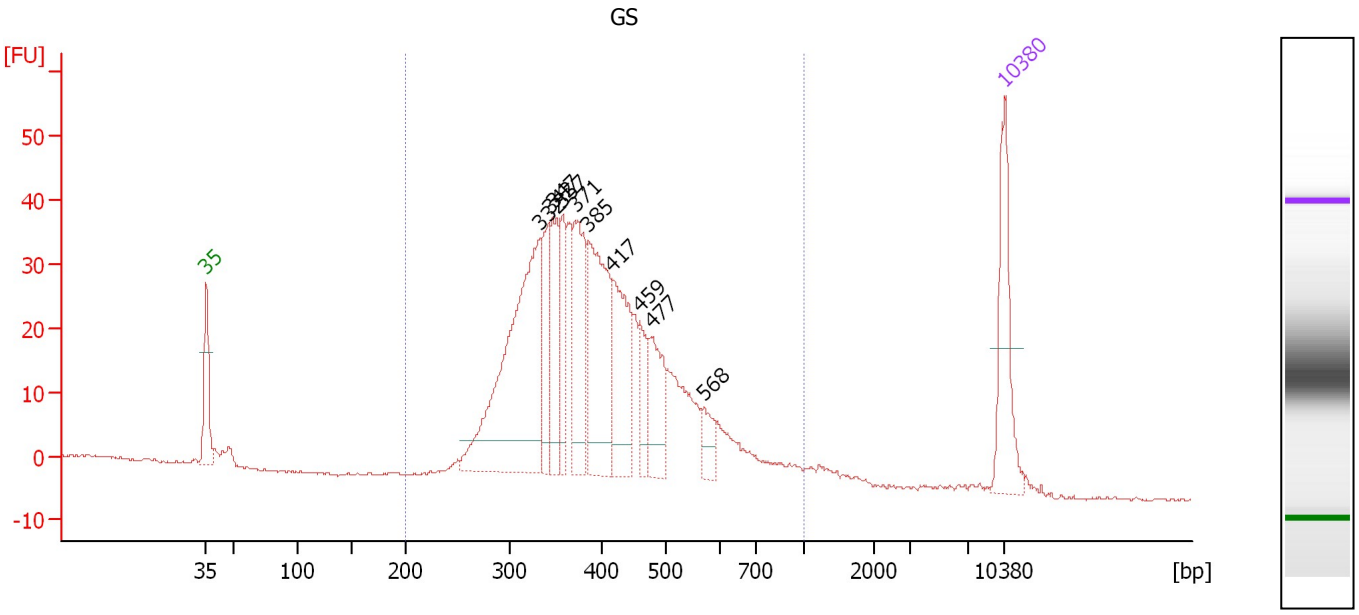
Region table for sample 7 : KDMB002

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	389	220.2	2,079.4	446.89	67	38.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GS

Number of peaks found:	10	Corr. Area 1:	737.0
Noise:	0.2		

Peak table for sample 8 : GS

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	332	338.70	1,544.6		72.23
3	342	75.90	336.1		73.02
4	347	83.01	362.7		73.39
5	357	62.43	264.7		74.24
6	371	121.09	494.9		75.31
7	385	176.19	692.9		76.48
8	417	116.26	422.4		78.63
9	459	42.93	141.8		81.02
10	477	70.02	222.4		82.04
11	568	25.38	67.7		86.58
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : GS

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	412	737.0	5,493.2	1,384.13	97	26.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

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Modified: 12/30/2015 3:10:06 PM

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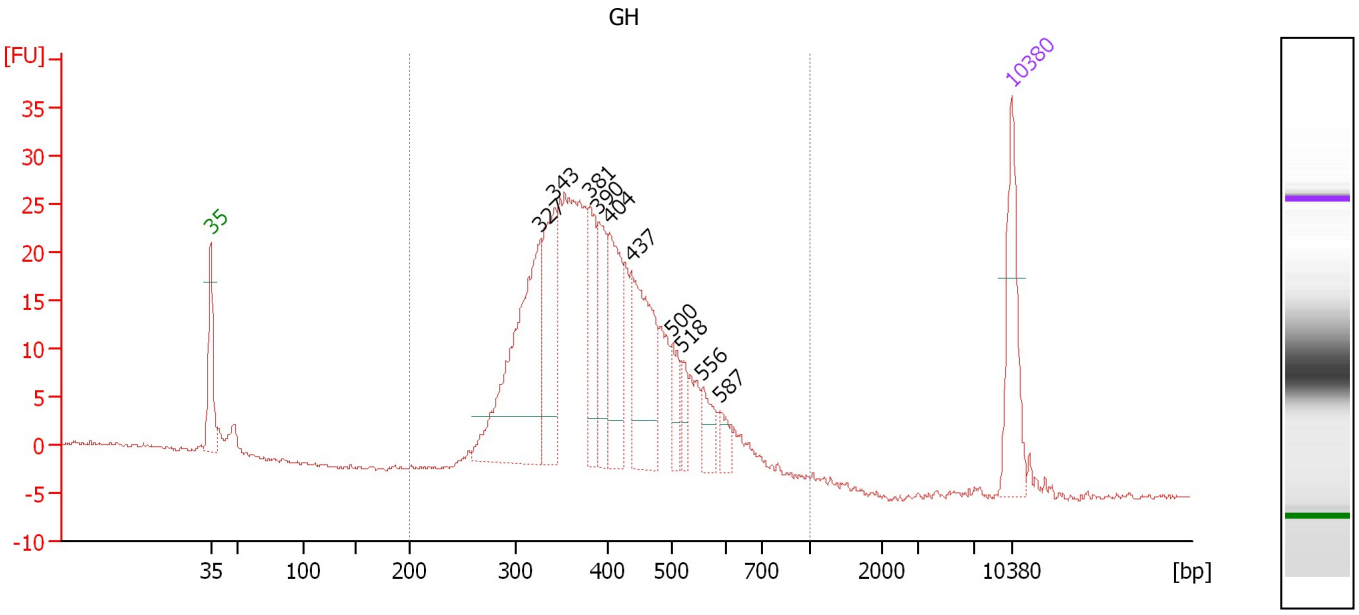


Overall Results for sample 9 : GH

Number of peaks found:	10	Corr. Area 1:	501.9
Noise:	0.2		

Peak table for sample 9 : GH

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	327	266.89	1,236.8		71.80
3	343	138.90	614.2		73.06
4	381	79.74	317.1		76.14
5	390	70.32	273.0		76.88
6	404	107.52	403.0		77.91
7	437	145.12	503.1		79.77
8	500	33.43	101.3		83.36
9	518	22.31	65.3		84.20
10	556	29.85	81.4		86.02
11	587	17.73	45.7		87.51
12	10,380	75.00	10.9	Upper Marker	113.00

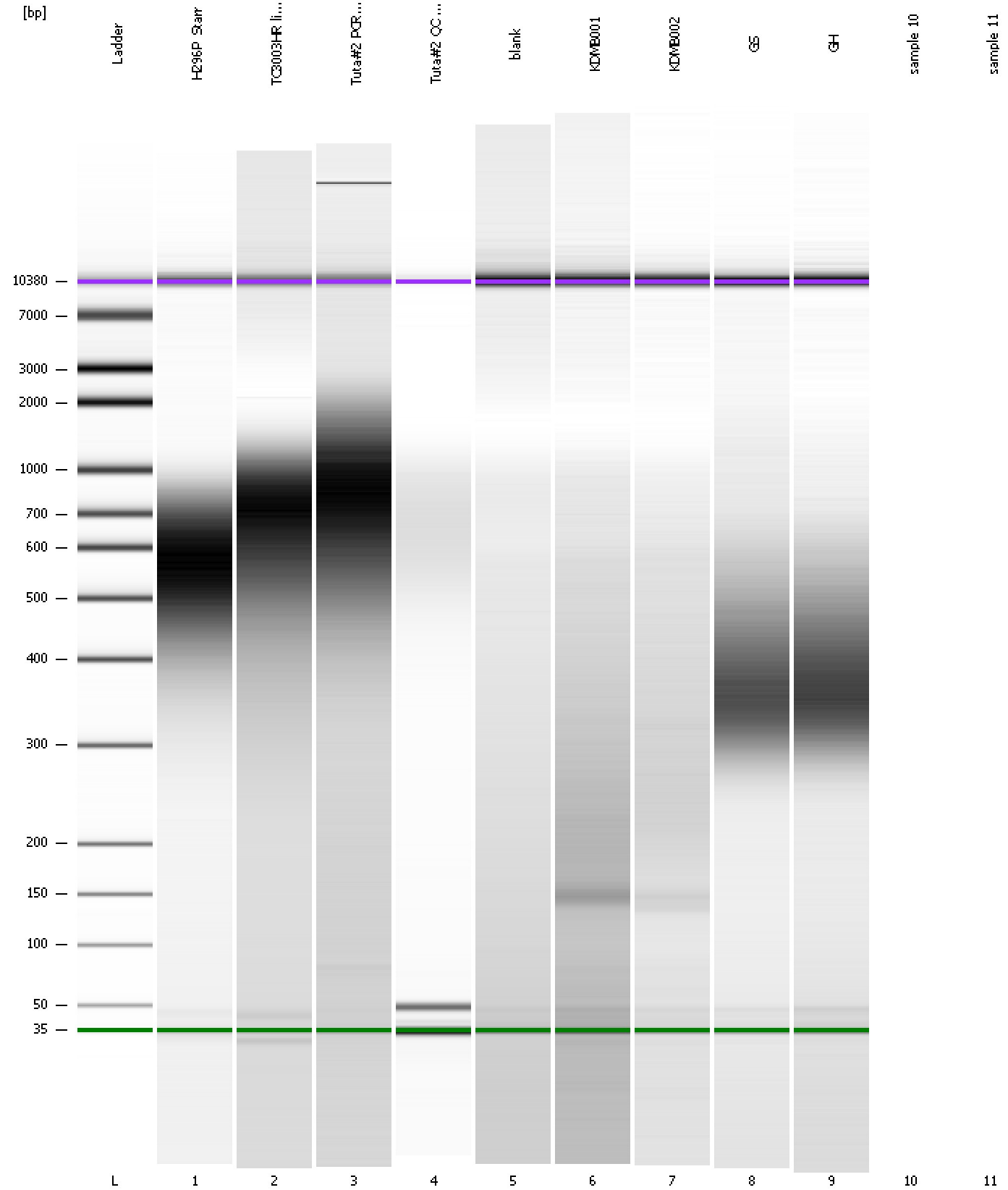
Region table for sample 9 : GH

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	407	501.9	5,508.5	1,394.09	97	22.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad

Created: 12/30/2015 2:34:32 PM
Modified: 12/30/2015 3:10:06 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		12/30/2015 3:10:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-30\2015-12-30_003.xad)		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/30/2015 2:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1