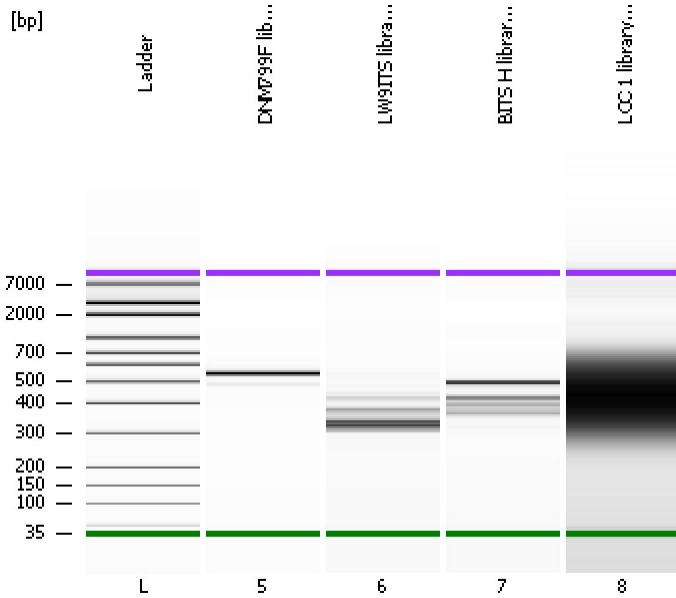


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 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

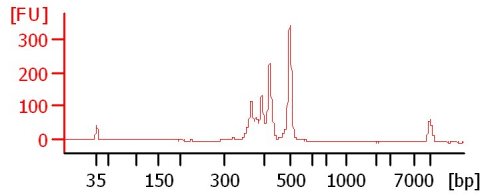
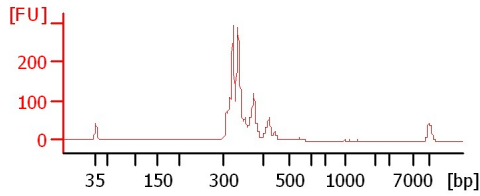
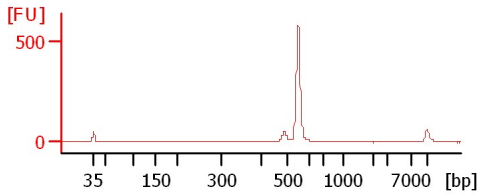
Chip Information:

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

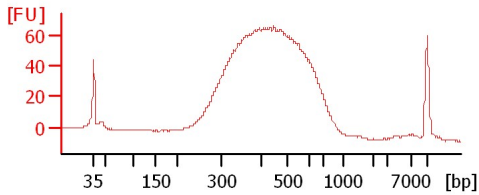
DNM799F library (5cyc PCR)

LW9ITS library (5cyc PCR)

BITS H library (5cyc PCR)



LCC 1 library (5cyc PCR)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
Modified: 3/17/2016 1:13:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DNM799F library (5cyc PCR)		<input type="checkbox"/>	✓			
LW9ITS library (5cyc PCR)		<input type="checkbox"/>	✓			
BITS H library (5cyc PCR)		<input type="checkbox"/>	✓			
LCC 1 library (5cyc PCR)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 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

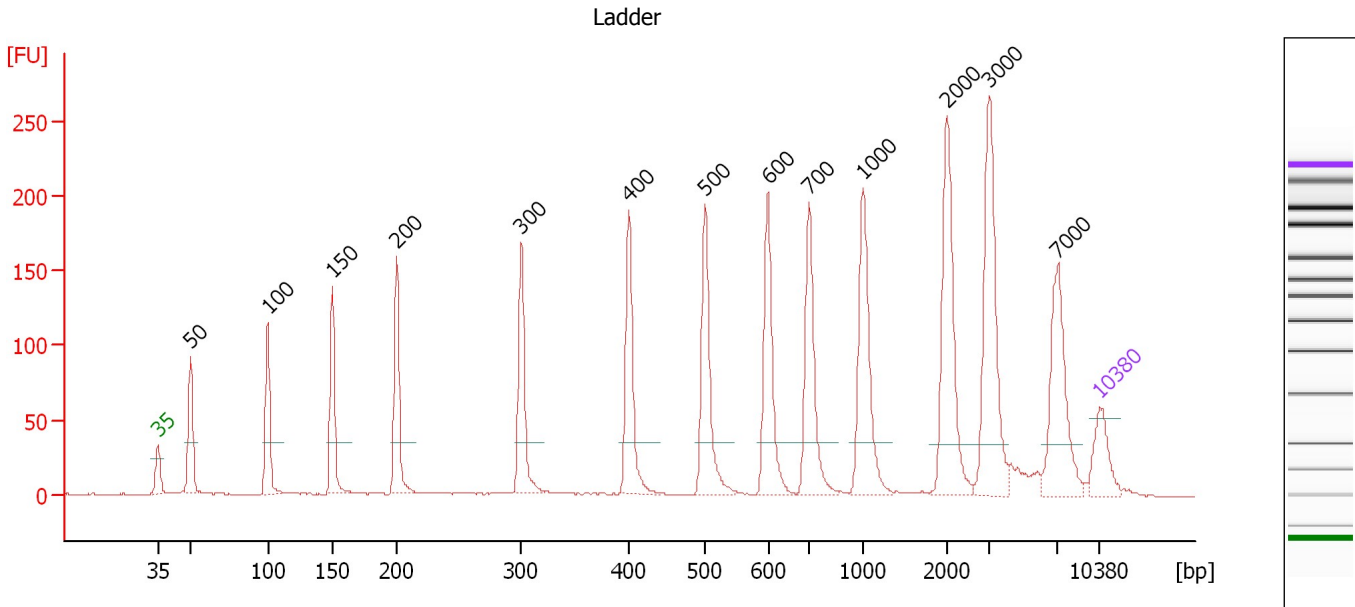
Ladder

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:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

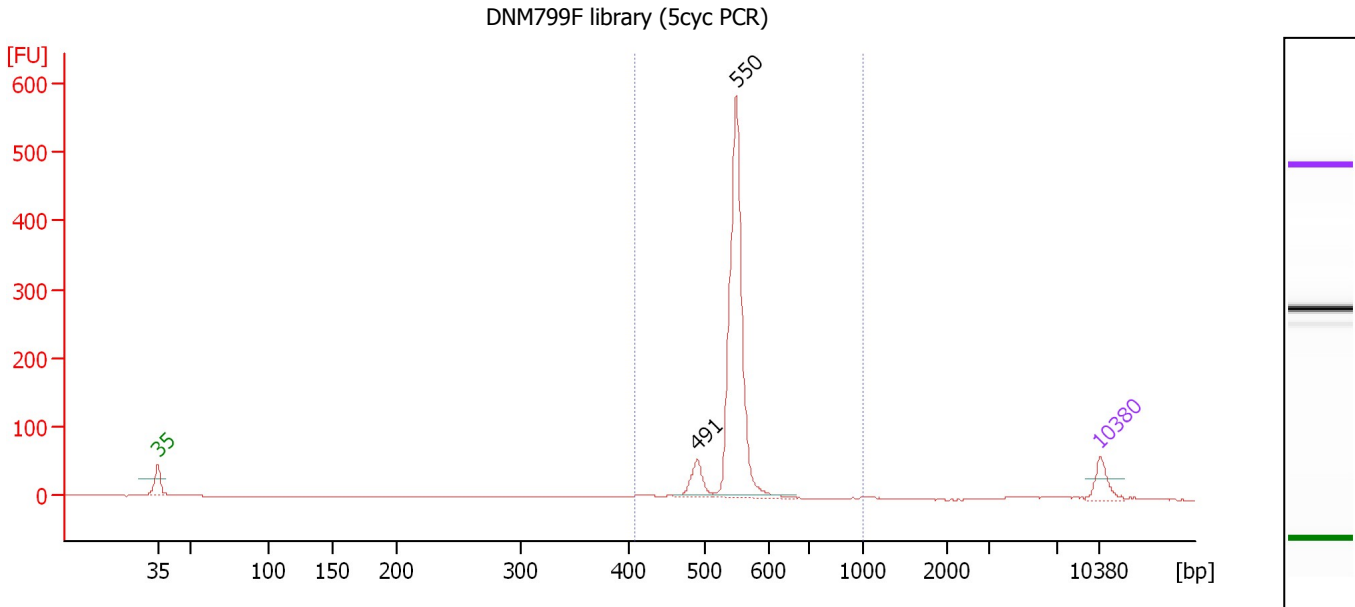
Peak table for Ladder

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	45.44
3	100	150.00	2,272.7	Ladder Peak	51.19
4	150	150.00	1,515.2	Ladder Peak	56.02
5	200	150.00	1,136.4	Ladder Peak	60.74
6	300	150.00	757.6	Ladder Peak	70.01
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.65
9	600	150.00	378.8	Ladder Peak	88.33
10	700	150.00	324.7	Ladder Peak	91.41
11	1,000	150.00	227.3	Ladder Peak	95.40
12	2,000	150.00	113.6	Ladder Peak	101.59
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DNM799F library (5cyc PCR)

Number of peaks found: 2 Corr. Area 1: 810.1
 Noise: 0.2

Peak table for sample 5 : DNM799F library (5cyc PCR)

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	491	125.17	386.5		83.13
3	550	1,202.45	3,315.3		85.97
4	10,380	75.00	10.9	Upper Marker	113.00

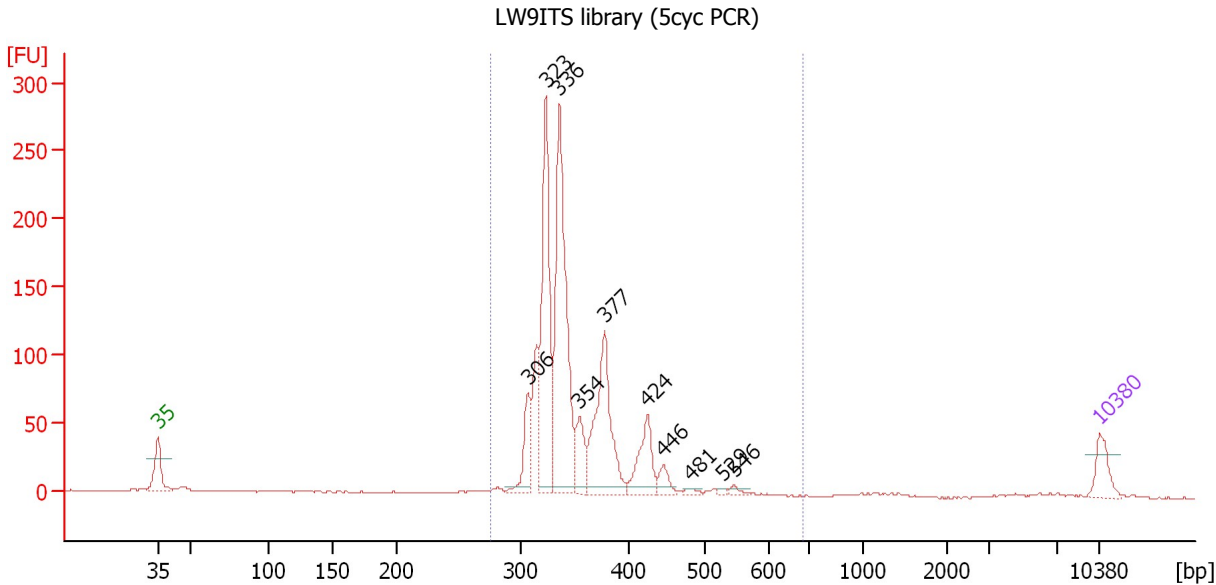
Region table for sample 5 : DNM799F library (5cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
407	1,000	545	810.1	3,809.3	1,364.84	91	6.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LW9ITS library (5cyc PCR)

Number of peaks found: 10 Corr. Area 1: 1,152.8
 Noise: 0.4

Peak table for sample 6 : LW9ITS library (5cyc PCR)

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	306	153.10	757.7		70.50
3	323	691.31	3,241.2		71.86
4	336	872.18	3,937.8		72.85
5	354	137.41	588.3		74.31
6	377	474.80	1,906.0		76.20
7	424	186.68	666.3		79.39
8	446	54.04	183.7		80.59
9	481	14.68	46.3		82.57
10	529	8.82	25.2		85.03
11	546	15.92	44.2		85.82
12	10,380	75.00	10.9	Upper Marker	113.00

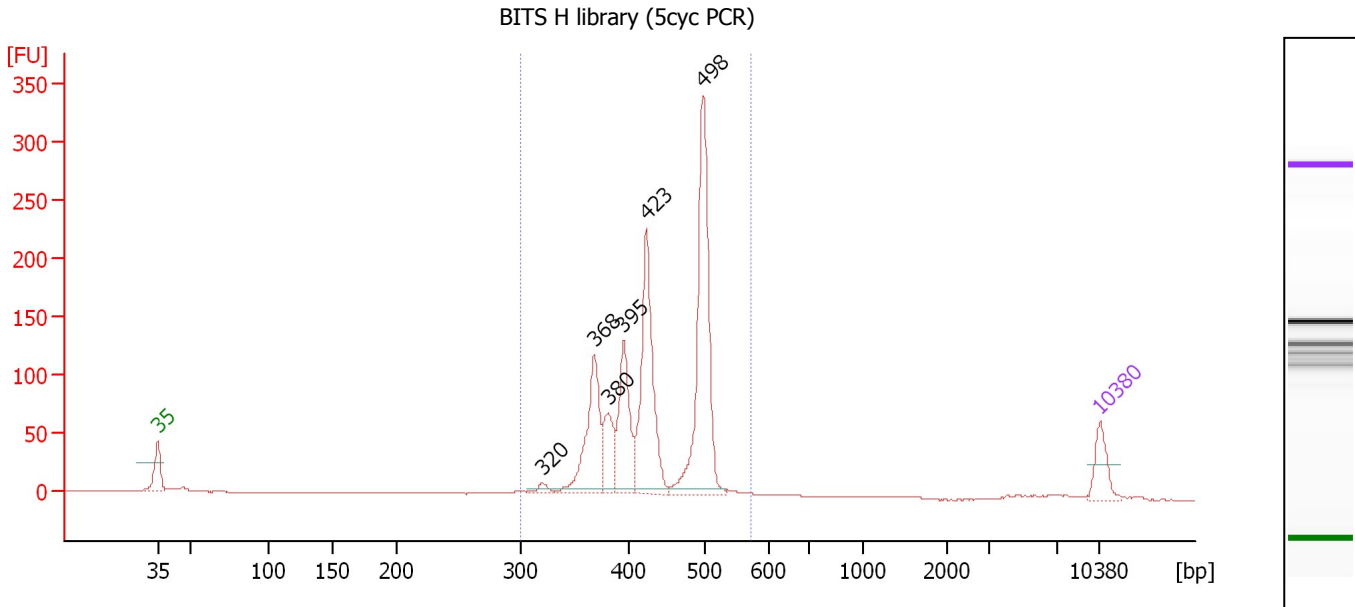
Region table for sample 6 : LW9ITS library (5cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
276	683	352	1,152.8	12,436.0	2,848.20	96	12.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BITS H library (5cyc PCR)

Number of peaks found: 6 Corr. Area 1: 1,117.3
 Noise: 0.2

Peak table for sample 7 : BITS H library (5cyc PCR)

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	320	23.38	110.6		71.62
3	368	320.99	1,321.9		75.43
4	380	135.40	539.2		76.44
5	395	258.49	991.4		77.60
6	423	481.01	1,723.2		79.30
7	498	671.16	2,042.9		83.53
8	10,380	75.00	10.9	Upper Marker	113.00

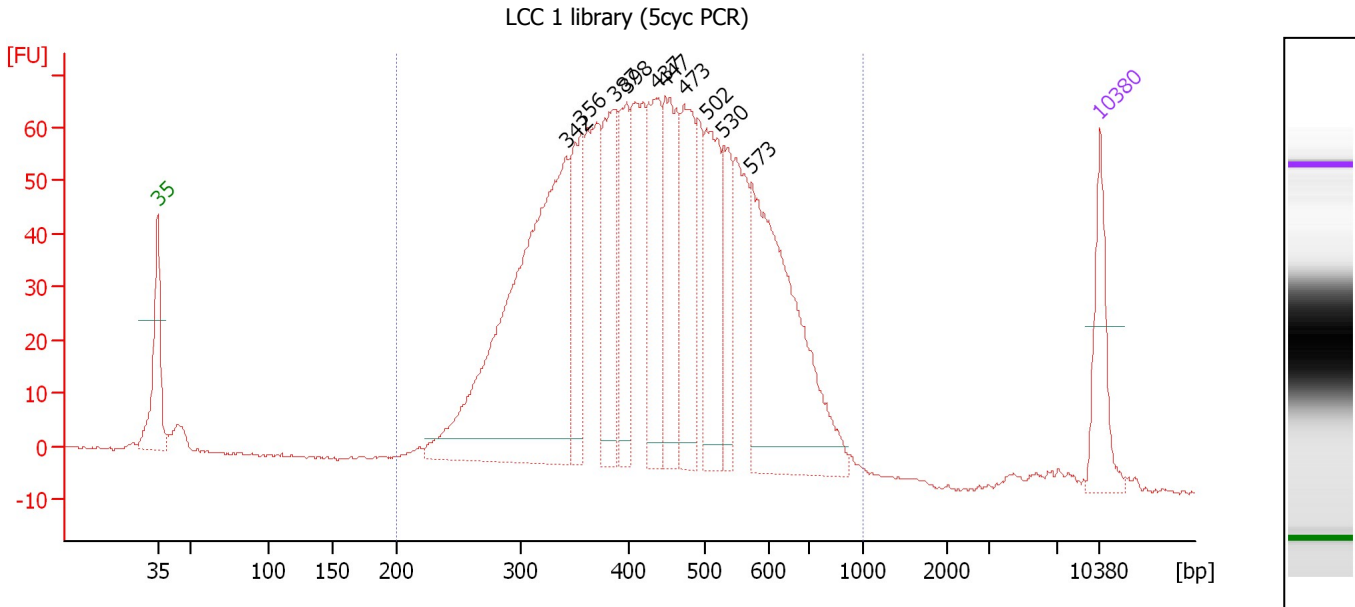
Region table for sample 7 : BITS H library (5cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
300	573	435	1,117.3	6,802.6	1,920.61	98	12.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : LCC 1 library (5cyc PCR)

Number of peaks found: 10 Corr. Area 1: 1,720.9
 Noise: 0.3

Peak table for sample 8 : LCC 1 library (5cyc PCR)

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	342	743.70	3,295.4		73.36
3	356	151.53	645.0		74.48
4	387	170.51	667.0		76.99
5	398	129.96	494.7		77.84
6	437	160.62	557.2		80.08
7	447	197.34	668.6		80.67
8	473	175.42	562.3		82.11
9	502	180.73	545.1		83.76
10	530	96.05	274.8		85.04
11	573	401.17	1,060.8		87.07
12	10,380	75.00	10.9	Upper Marker	113.00

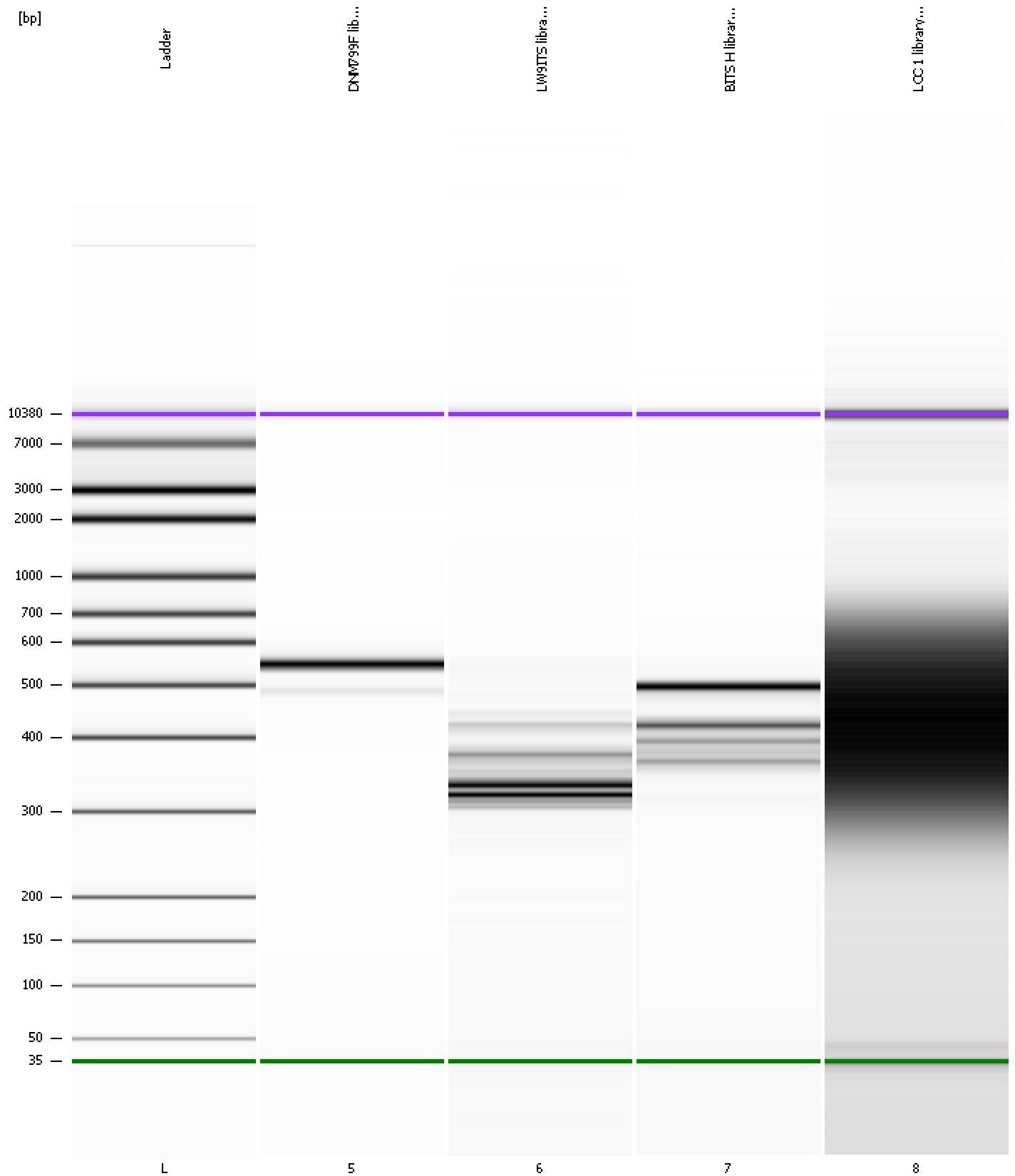
Region table for sample 8 : LCC 1 library (5cyc PCR)

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	447	1,720.9	11,680.6	3,111.00	98	27.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 PM

Gel Image

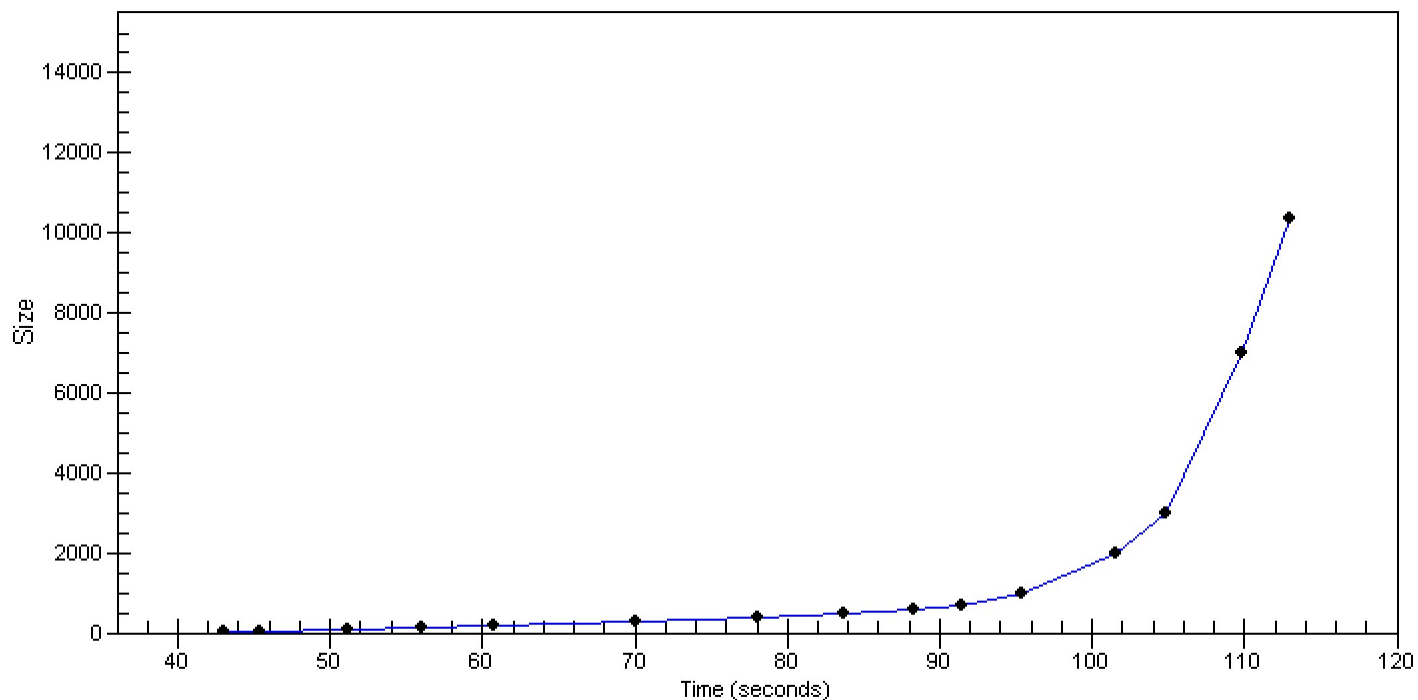


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
Modified: 3/17/2016 1:13:51 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...3-17_002_LibrariesWith5cycPCR_DNM799F_LW9ITS_BITSH_LCC1.xad

Created: 3/17/2016 12:29:29 PM
 Modified: 3/17/2016 1:13:51 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		3/17/2016 1:10:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-17\2016-03-17_002.xad)		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/17/2016 12:29:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1