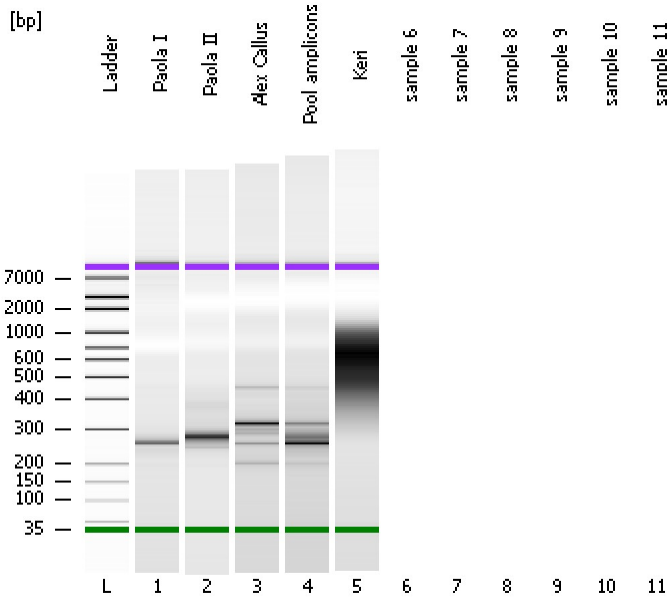


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
Modified: 8/5/2016 1:48:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

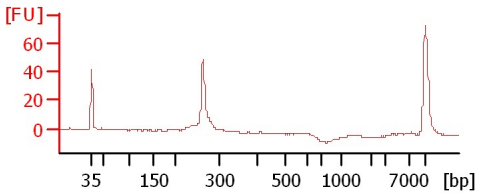
Assay Information:

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

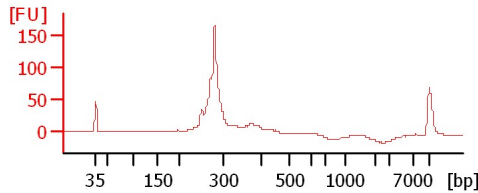
Chip Information:

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

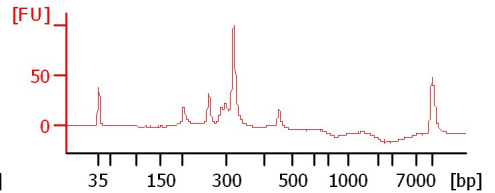
Paola I



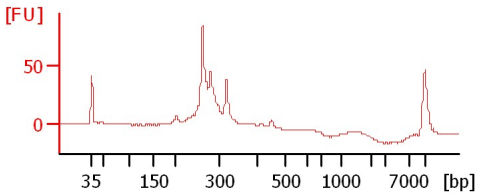
Paola II



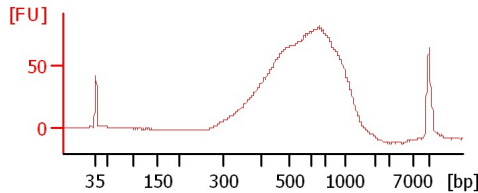
Alex Callus



Pool amplicons



Keri



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
Modified: 8/5/2016 1:48:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Paola I		<input type="checkbox"/>		✓		
Paola II		<input type="checkbox"/>		✓		
Alex Callus		<input type="checkbox"/>		✓		
Pool amplicons		<input type="checkbox"/>		✓		
Keri		<input type="checkbox"/>		✓		
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
Modified: 8/5/2016 1:48:22 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

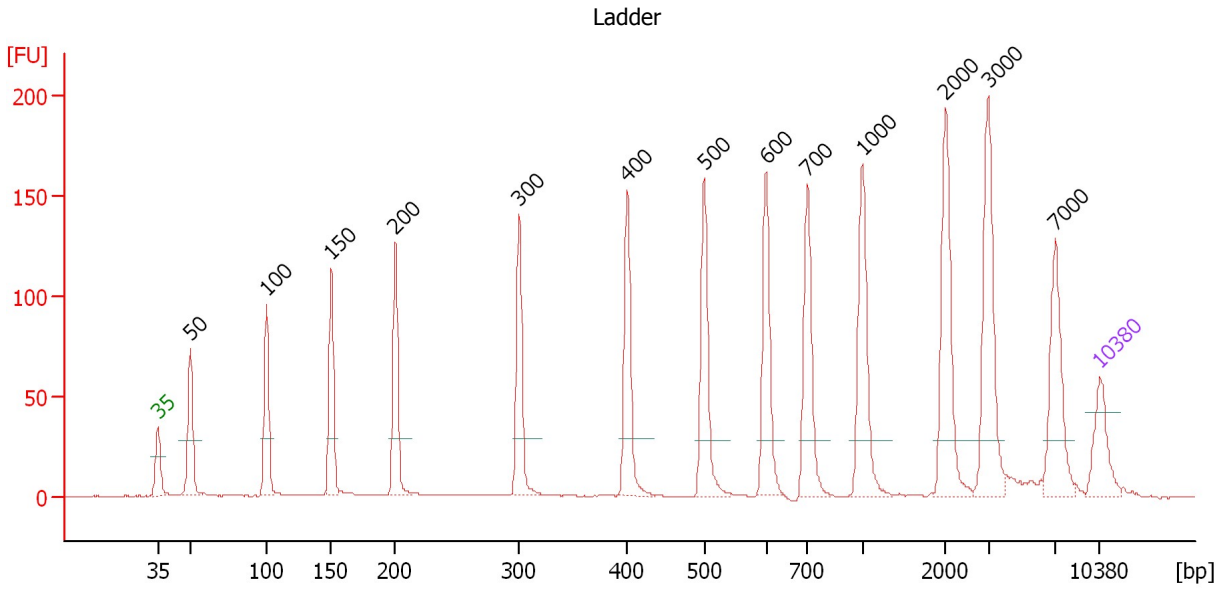
Ladder

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:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

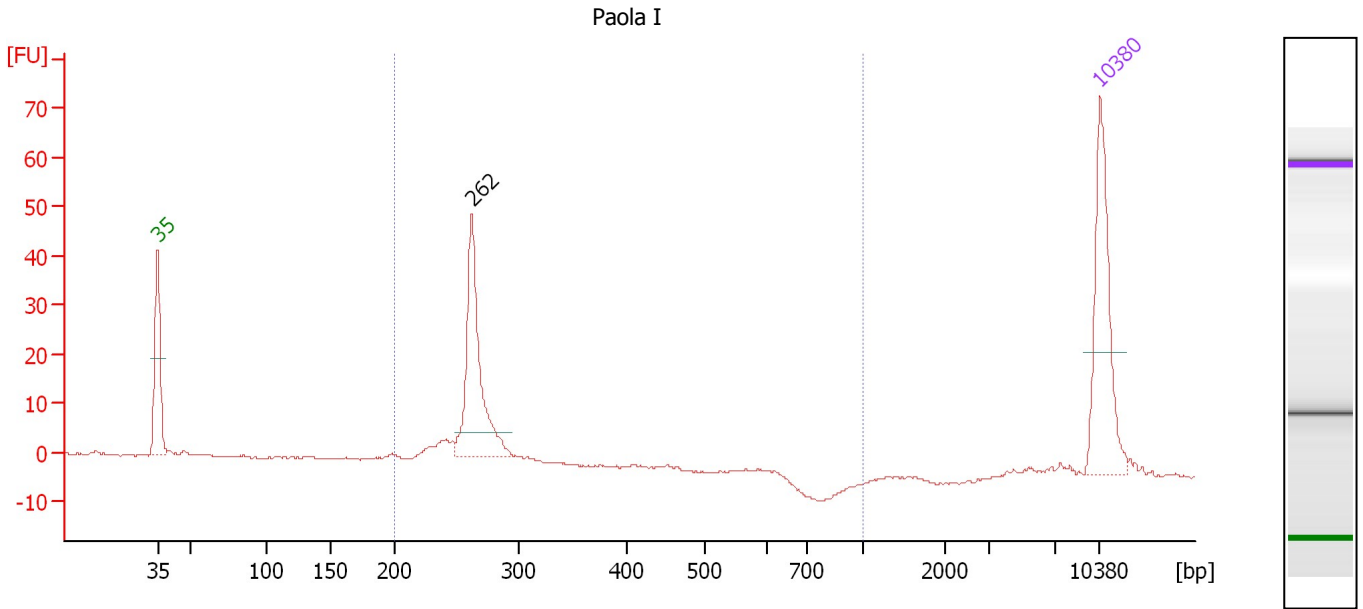
Peak table for Ladder

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	45.42
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.90
5	200	150.00	1,136.4	Ladder Peak	60.65
6	300	150.00	757.6	Ladder Peak	69.89
7	400	150.00	568.2	Ladder Peak	77.90
8	500	150.00	454.5	Ladder Peak	83.59
9	600	150.00	378.8	Ladder Peak	88.23
10	700	150.00	324.7	Ladder Peak	91.30
11	1,000	150.00	227.3	Ladder Peak	95.35
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.69
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Paola I

Number of peaks found: 1 Corr. Area 1: 100.3
 Noise: 0.2

Peak table for sample 1 : Paola I

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	262	127.19	735.9		66.37
3	10,380	75.00	10.9	Upper Marker	113.00

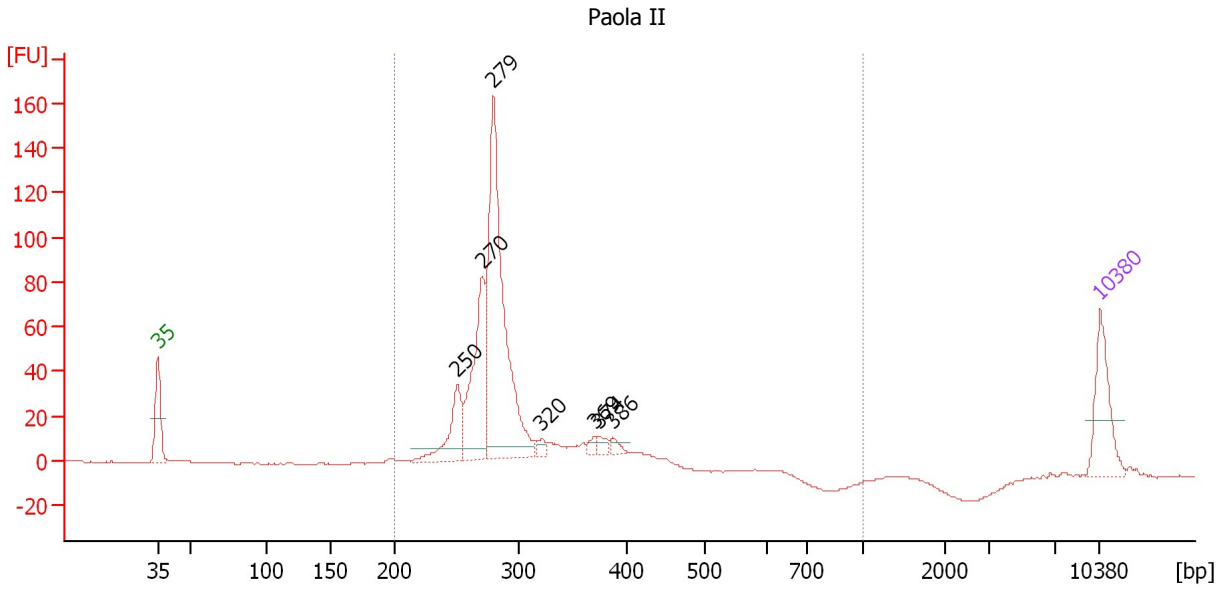
Region table for sample 1 : Paola I

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	262	100.3	872.3	150.92	96	5.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Paola II

Number of peaks found: 7 Corr. Area 1: 642.7
 Noise: 0.2

Peak table for sample 2 : Paola II

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	250	95.55	578.9		65.28
3	270	204.70	1,147.8		67.14
4	279	488.54	2,654.0		67.94
5	320	11.51	54.5		71.51
6	369	10.30	42.2		75.44
7	374	11.50	46.6		75.79
8	386	10.38	40.7		76.79
9	10,380	75.00	10.9	Upper Marker	113.00

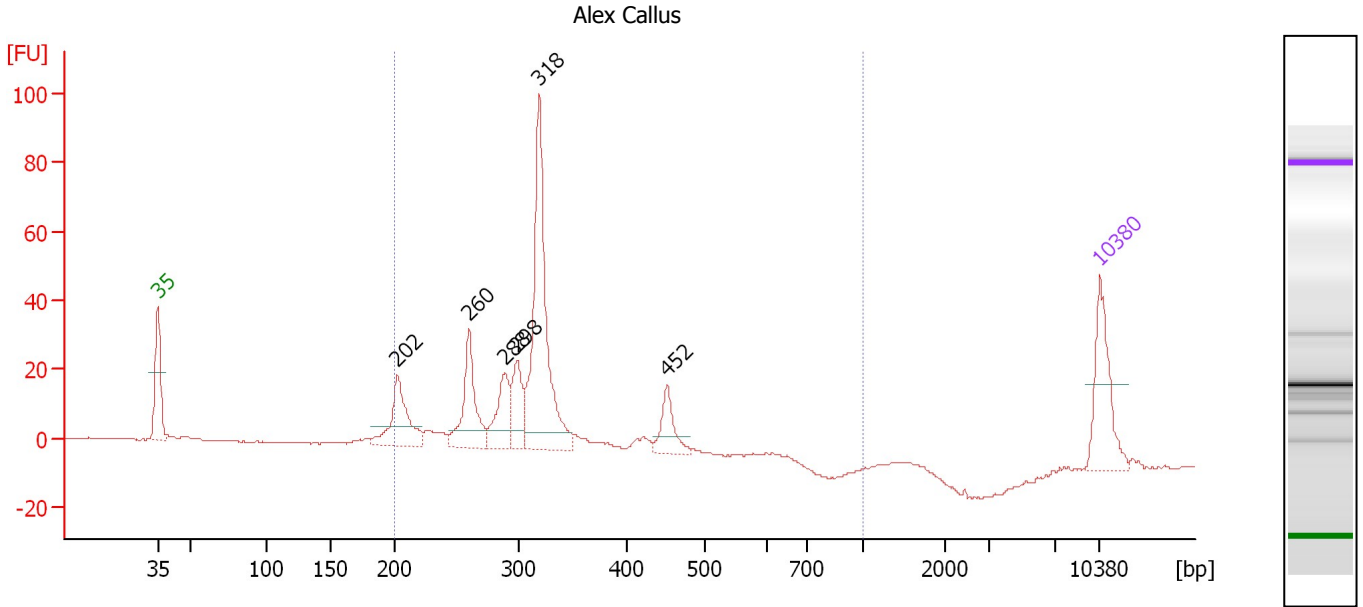
Region table for sample 2 : Paola II

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	293	642.7	5,283.4	997.80	99	14.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Alex Callus

Number of peaks found: 6 Corr. Area 1: 341.0
 Noise: 0.2

Peak table for sample 3 : Alex Callus

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	202	99.38	746.0		60.82
3	260	107.46	627.1		66.16
4	288	68.24	359.3		68.76
5	298	62.19	316.6		69.68
6	318	297.89	1,418.1		71.36
7	452	46.50	155.8		80.88
8	10,380	75.00	10.9	Upper Marker	113.00

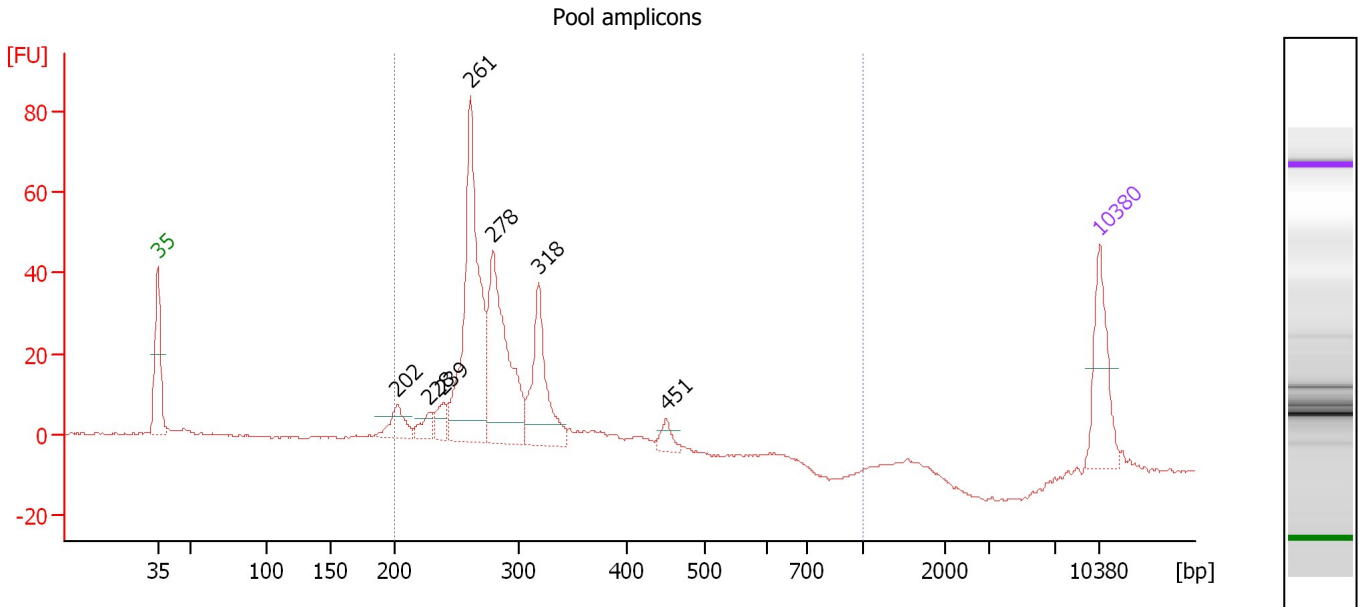
Region table for sample 3 : Alex Callus

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	307	341.0	3,442.2	669.34	93	18.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Pool amplicons

Number of peaks found: 7 Corr. Area 1: 417.6
 Noise: 0.2

Peak table for sample 4 : Pool amplicons

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	202	39.40	295.7		60.82
3	228	23.09	153.7		63.20
4	239	27.94	177.3		64.23
5	261	349.96	2,035.0		66.25
6	278	244.58	1,330.9		67.90
7	318	137.10	653.9		71.31
8	451	18.42	61.9		80.82
9	10,380	75.00	10.9	Upper Marker	113.00

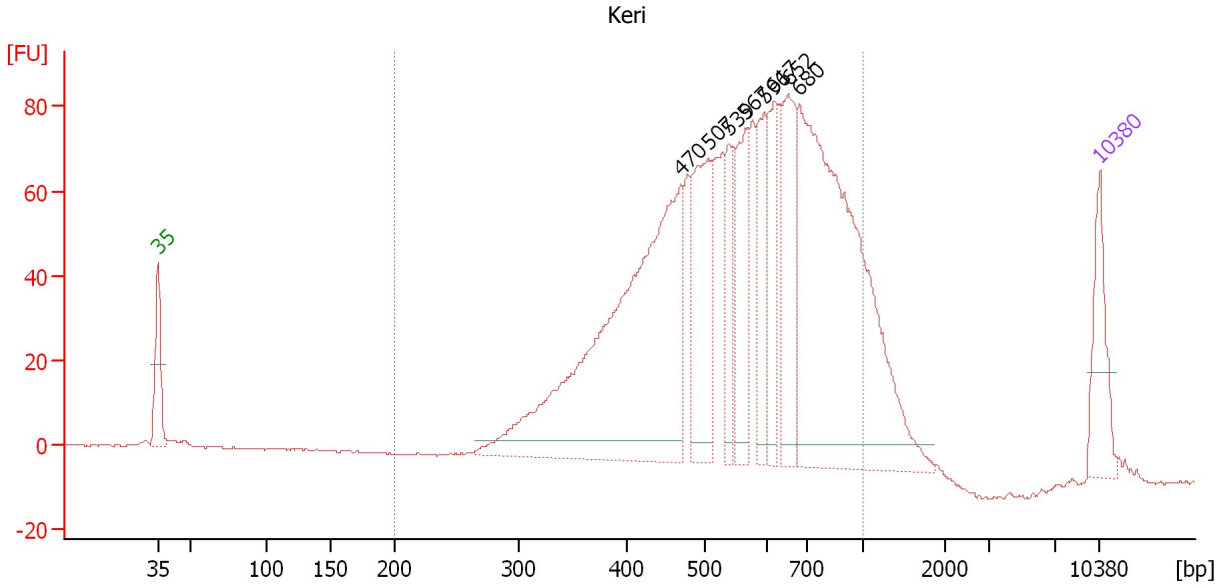
Region table for sample 4 : Pool amplicons

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	286	417.6	4,861.0	895.59	89	16.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
 Modified: 8/5/2016 1:48:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Keri

Number of peaks found: 8 Corr. Area 1: 1,609.7
 Noise: 0.3

Peak table for sample 5 : Keri

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	470	775.48	2,501.9		81.86
3	507	196.96	588.7		83.91
4	539	96.36	271.1		85.38
5	567	128.97	344.7		86.69
6	596	104.16	264.7		88.06
7	617	100.23	246.3		88.74
8	652	154.01	357.6		89.84
9	680	728.79	1,624.1		90.68
10	10,380	75.00	10.9	Upper Marker	113.00

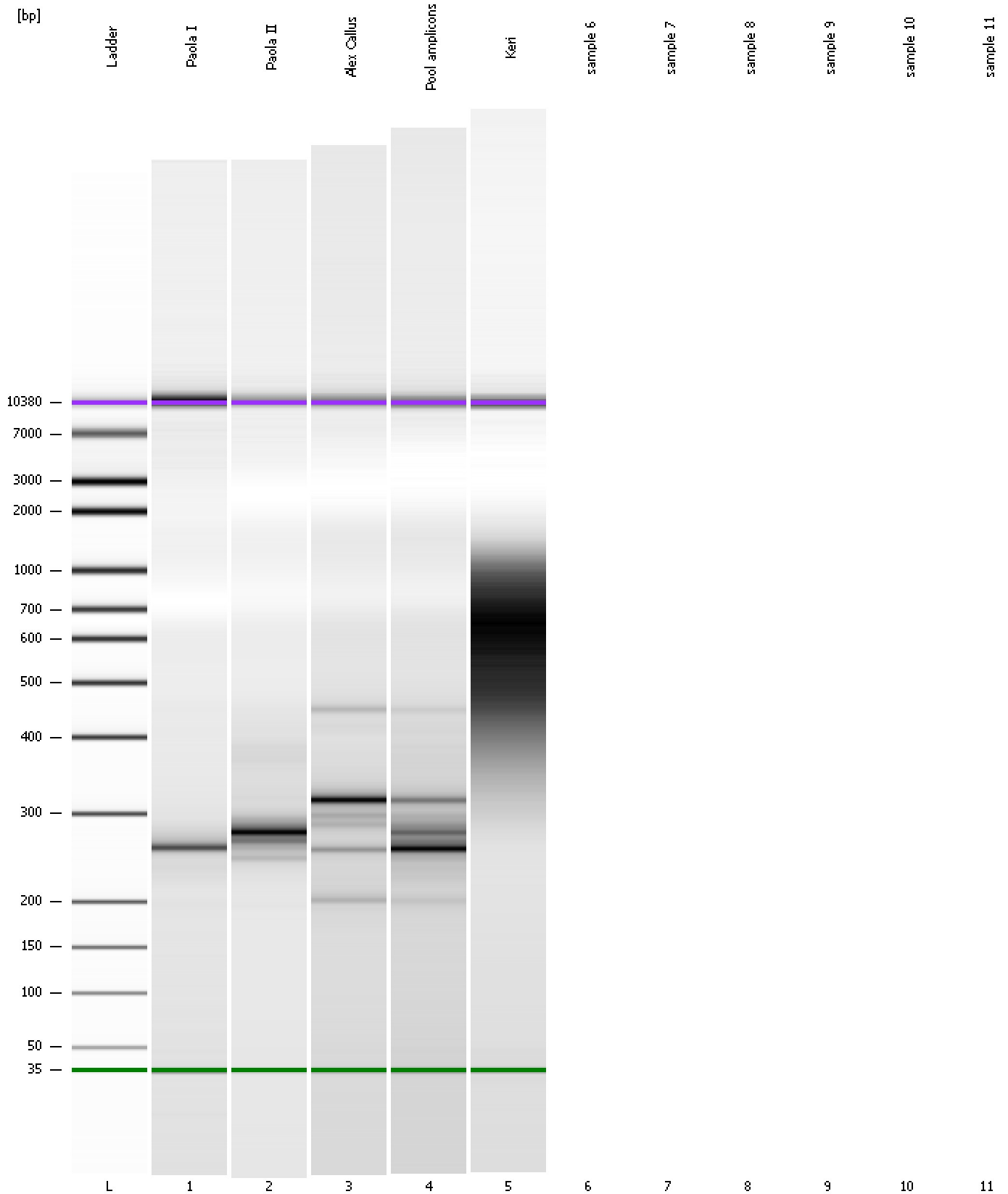
Region table for sample 5 : Keri

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	577	1,609.7	7,194.5	2,455.45	93	28.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
Modified: 8/5/2016 1:48:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad

Created: 8/5/2016 1:24:13 PM
Modified: 8/5/2016 1:48:22 PM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay Created: 8/5/2016 1:24:13 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-05\2016-08-05_001.xad Modified: 8/5/2016 1:48:22 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		8/5/2016 1:48:22 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\2016-08-05\2016-08-05_001.xad)		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/5/2016 1:24:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1