

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\2100 expert\data\2017-03-21\2017-03-21_001_groover-lab.xad

Created: 3/21/2017 1:16:32 PM
Modified: 3/21/2017 1:40:27 PM

Electrophoresis File Run Summary

Instrument Information:

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

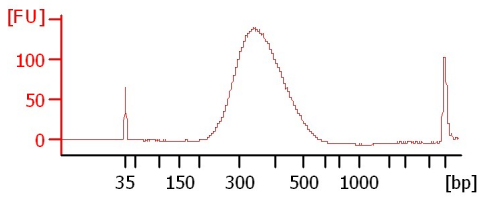
Assay Information:

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

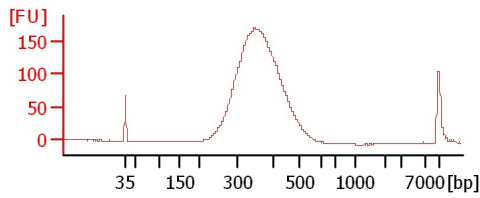
Chip Information:

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

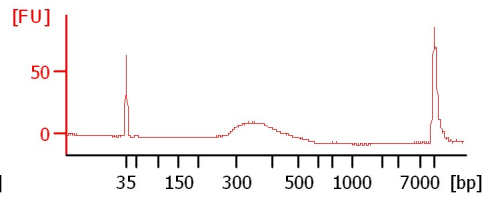
sample 1



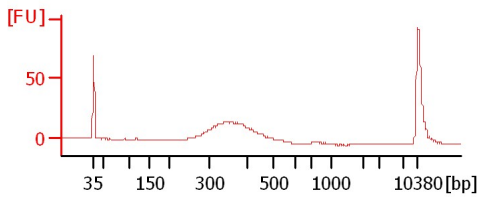
sample 2



sample 3



sample 4



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<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

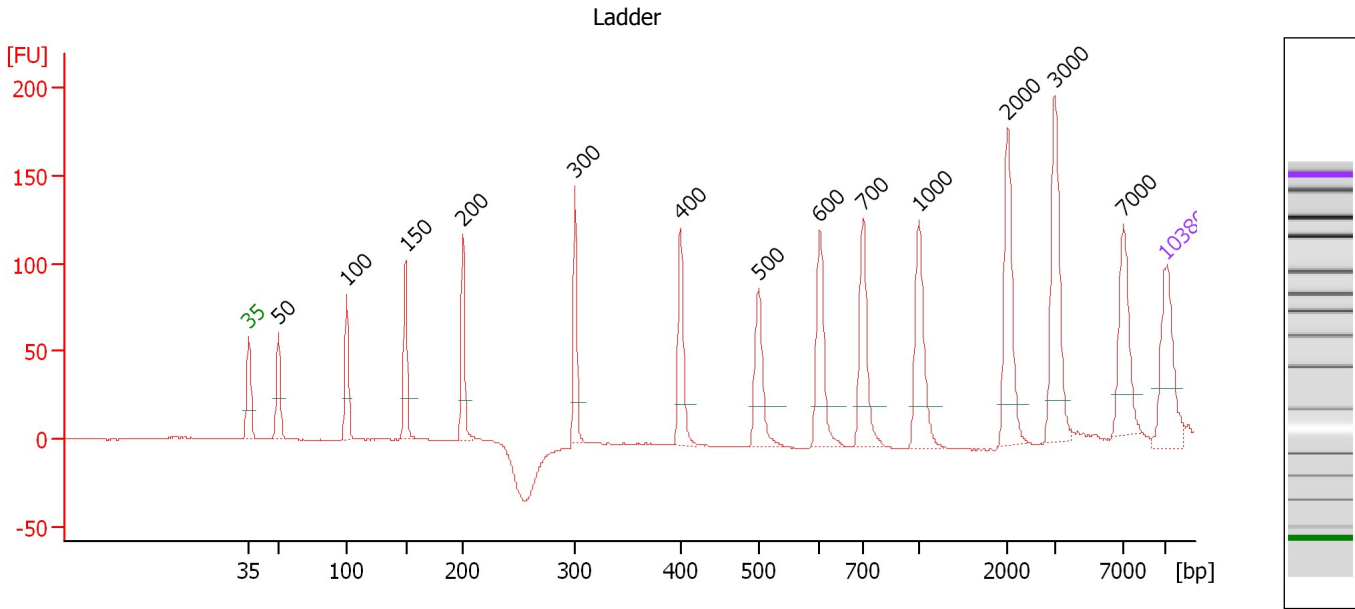
Ladder

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

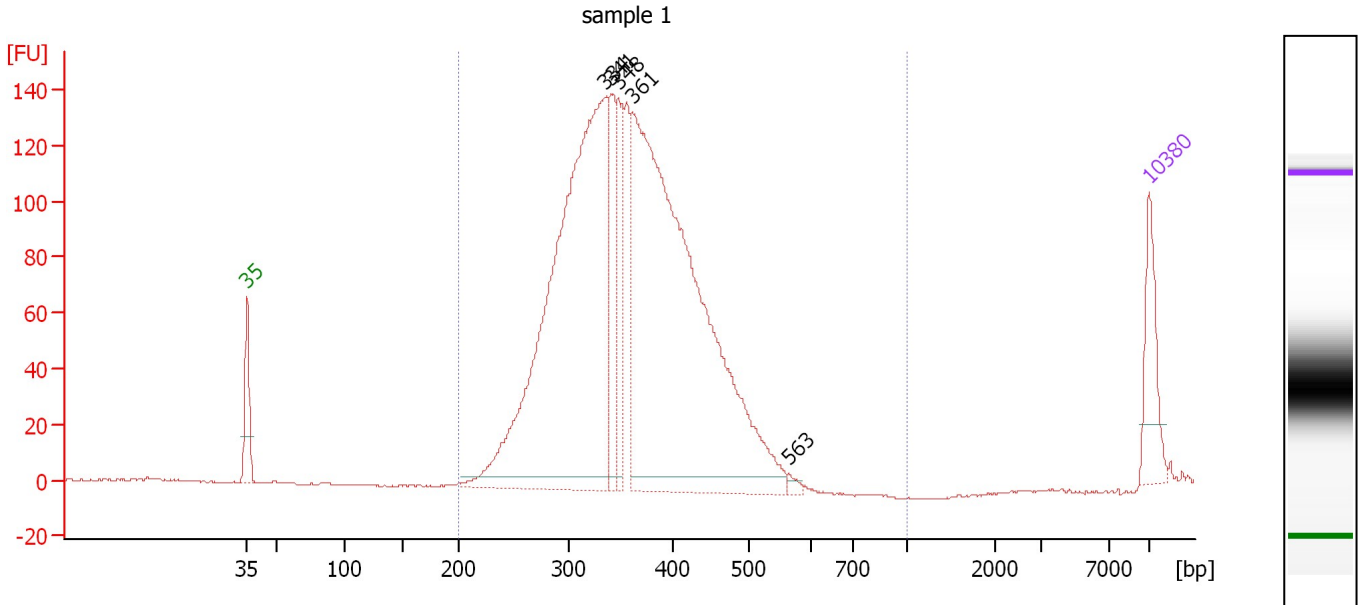
Peak table for Ladder

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.50
4	150	150.00	1,515.2	Ladder Peak	54.99
5	200	150.00	1,136.4	Ladder Peak	59.39
6	300	150.00	757.6	Ladder Peak	67.95
7	400	150.00	568.2	Ladder Peak	75.98
8	500	150.00	454.5	Ladder Peak	81.97
9	600	150.00	378.8	Ladder Peak	86.66
10	700	150.00	324.7	Ladder Peak	89.97
11	1,000	150.00	227.3	Ladder Peak	94.21
12	2,000	150.00	113.6	Ladder Peak	101.01
13	3,000	150.00	75.8	Ladder Peak	104.60
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 5 Corr. Area 1: 2,331.8
 Noise: 0.3

Peak table for sample 1 : sample 1

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	334	1,253.31	5,686.3		70.68
3	341	156.65	696.8		71.22
4	348	141.73	617.3		71.79
5	361	1,383.10	5,800.9		72.87
6	563	8.10	21.8		84.95
7	10,380	75.00	10.9	Upper Marker	113.00

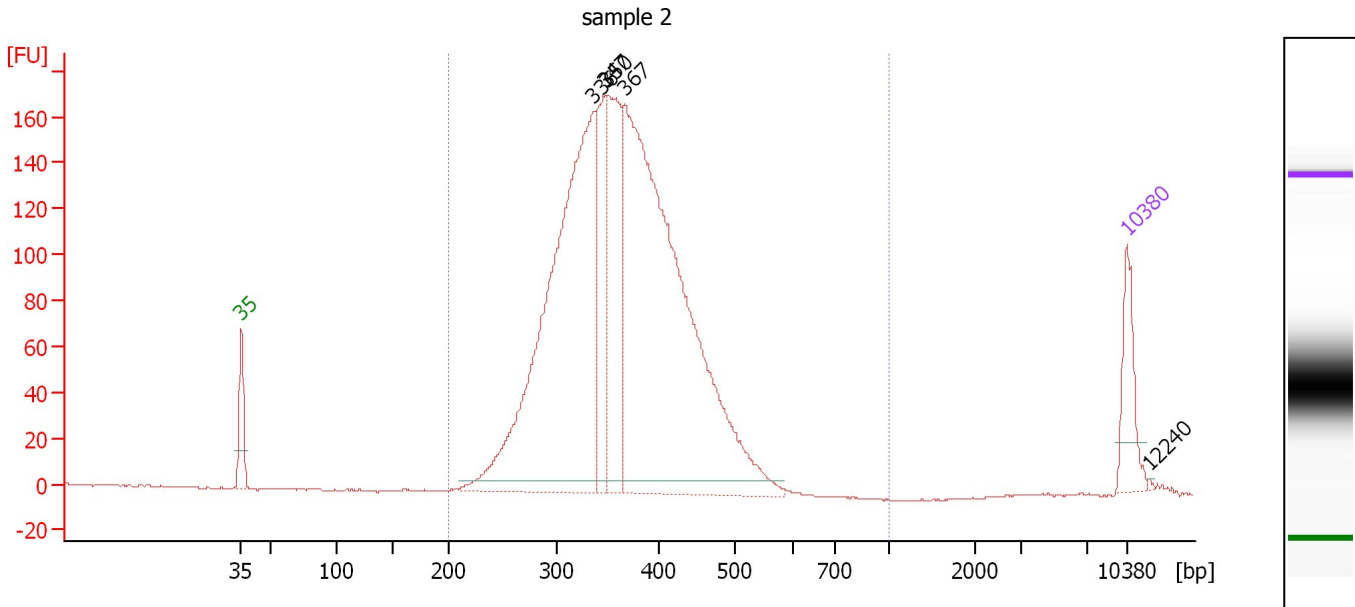
Region table for sample 1 : sample 1

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	359	2,331.8	12,502.0	2,853.14	100	16.8

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 5 Corr. Area 1: 2,741.1
 Noise: 0.2

Peak table for sample 2 : sample 2

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	336	1,171.00	5,285.8		70.81
3	347	221.16	966.6		71.70
4	350	360.79	1,562.6		71.95
5	367	1,425.87	5,892.8		73.30
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,240	0.00	0.0		114.73

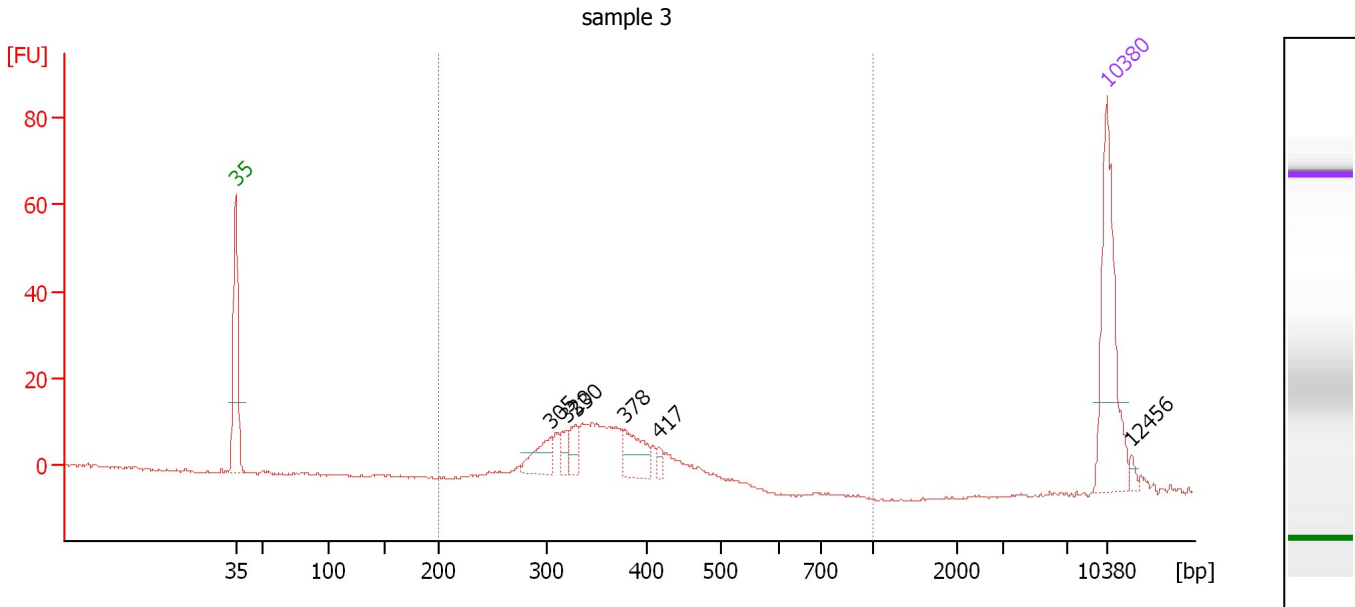
Region table for sample 2 : sample 2

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	364	2,741.1	13,325.1	3,092.24	100	16.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 6 Corr. Area 1: 172.9
 Noise: 0.3

Peak table for sample 3 : sample 3

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	305	24.69	122.6		68.36
3	320	12.83	60.7		69.56
4	330	13.79	63.3		70.37
5	378	31.41	125.8		74.23
6	417	5.53	20.1		77.01
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,456	0.00	0.0		114.93

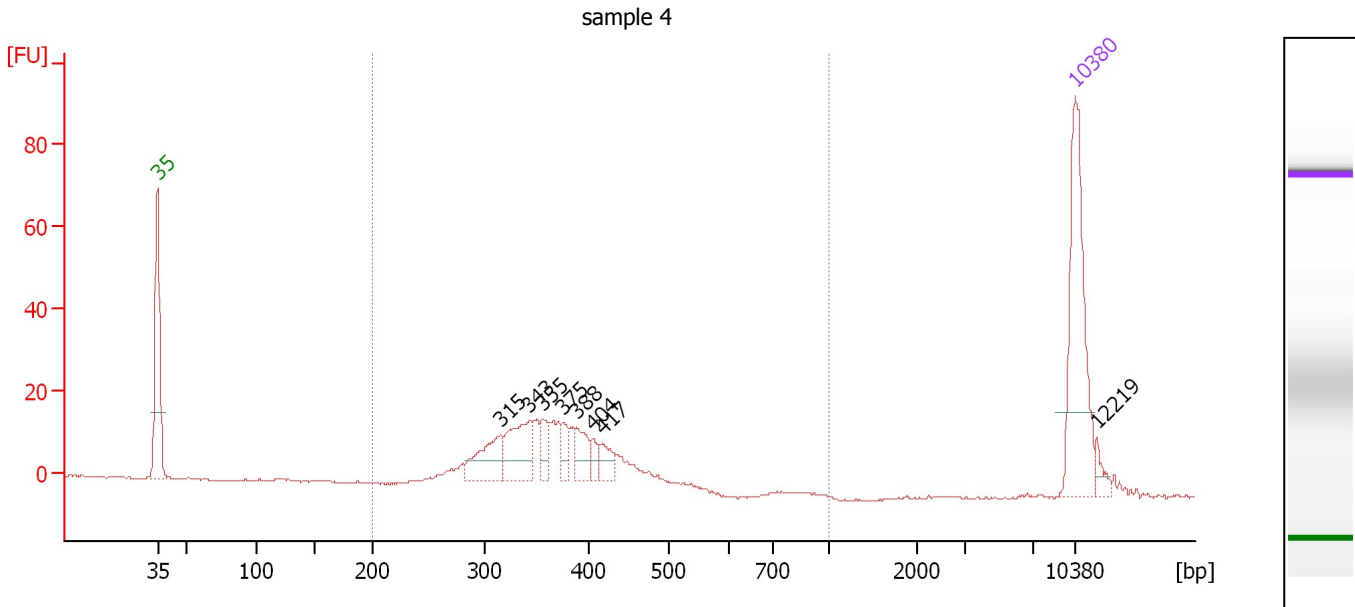
Region table for sample 3 : sample 3

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	360	172.9	857.5	199.09	96	13.6

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 8 Corr. Area 1: 222.5
 Noise: 0.2

Peak table for sample 4 : sample 4

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	315	35.89	172.7		69.15
3	343	43.42	191.9		71.39
4	355	14.69	62.7		72.35
5	375	11.52	46.5		73.97
6	388	18.45	72.0		75.02
7	404	8.13	30.5		76.20
8	417	11.46	41.7		76.99
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,219	0.00	0.0		114.71

Region table for sample 4 : sample 4

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	364	222.5	963.0	225.73	95	14.3

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Gel Image

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		3/21/2017 1:38:59 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\2017-03-21\2017-03-21_001.xad)		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/21/2017 1:16:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1