

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-15\2016-06-15_001.xad

Created: 6/15/2016 11:37:04 AM
Modified: 6/15/2016 12:01:13 PM

Electrophoresis File Run Summary

Instrument Information:

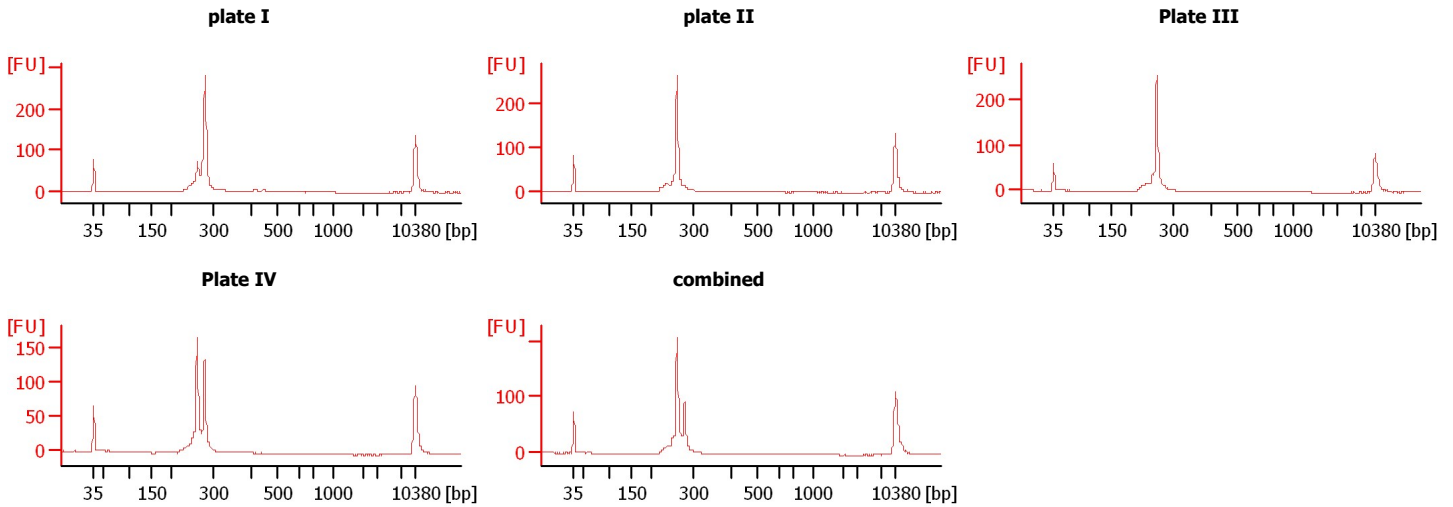
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
plate I		<input type="checkbox"/>	✓			
plate II		<input type="checkbox"/>	✓			
Plate III		<input type="checkbox"/>	✓			
Plate IV		<input type="checkbox"/>	✓			
combined		<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 :

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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

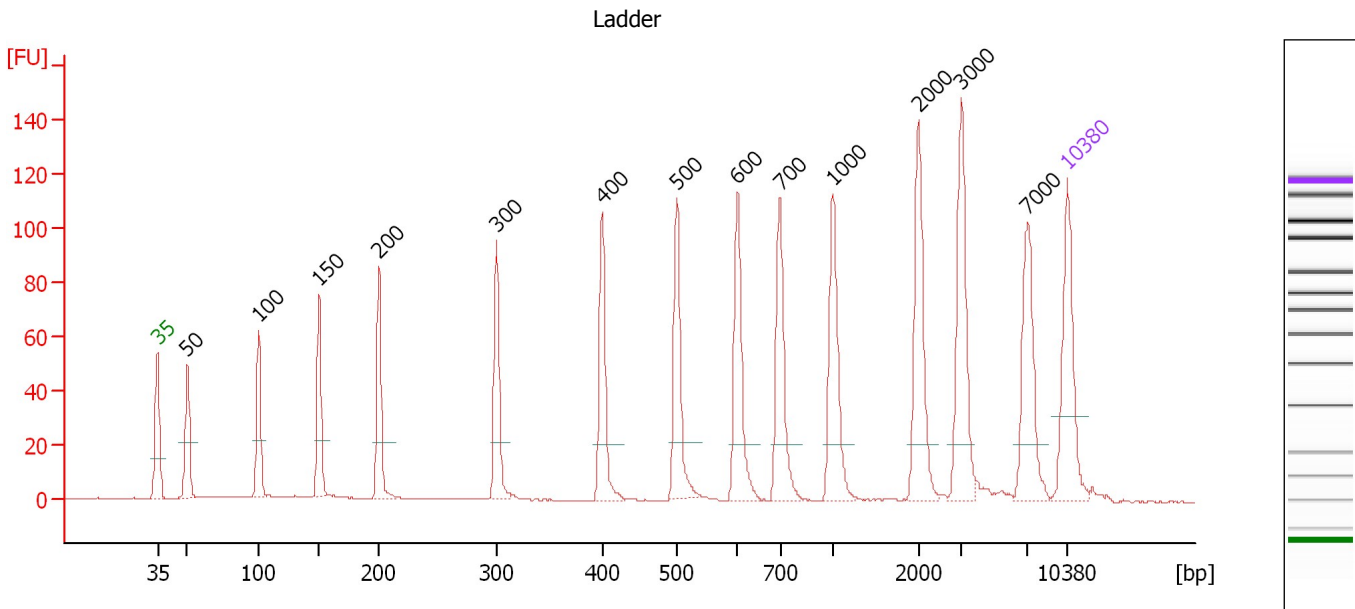
Ladder

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

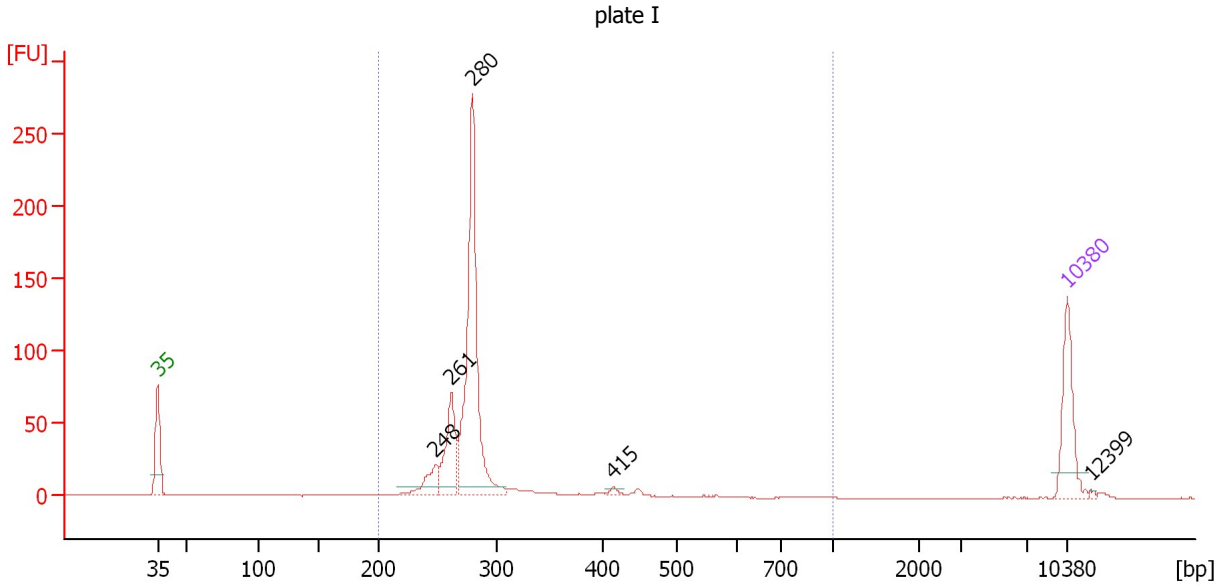
Peak table for Ladder

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.77
4	150	150.00	1,515.2	Ladder Peak	55.44
5	200	150.00	1,136.4	Ladder Peak	60.06
6	300	150.00	757.6	Ladder Peak	69.09
7	400	150.00	568.2	Ladder Peak	77.21
8	500	150.00	454.5	Ladder Peak	82.96
9	600	150.00	378.8	Ladder Peak	87.63
10	700	150.00	324.7	Ladder Peak	90.91
11	1,000	150.00	227.3	Ladder Peak	94.99
12	2,000	150.00	113.6	Ladder Peak	101.60
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.99
15	10,380	75.00	10.9	Upper Marker	113.00

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Created: 6/15/2016 11:37:04 AM
 Modified: 6/15/2016 12:01:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : plate I

Number of peaks found: 5 Corr. Area 1: 558.2
 Noise: 0.2

Peak table for sample 1 : plate 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	248	41.44	253.3		64.39
3	261	101.25	587.0		65.60
4	280	387.65	2,099.4		67.26
5	415	5.07	18.5		78.09
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,399	0.00	0.0		114.80

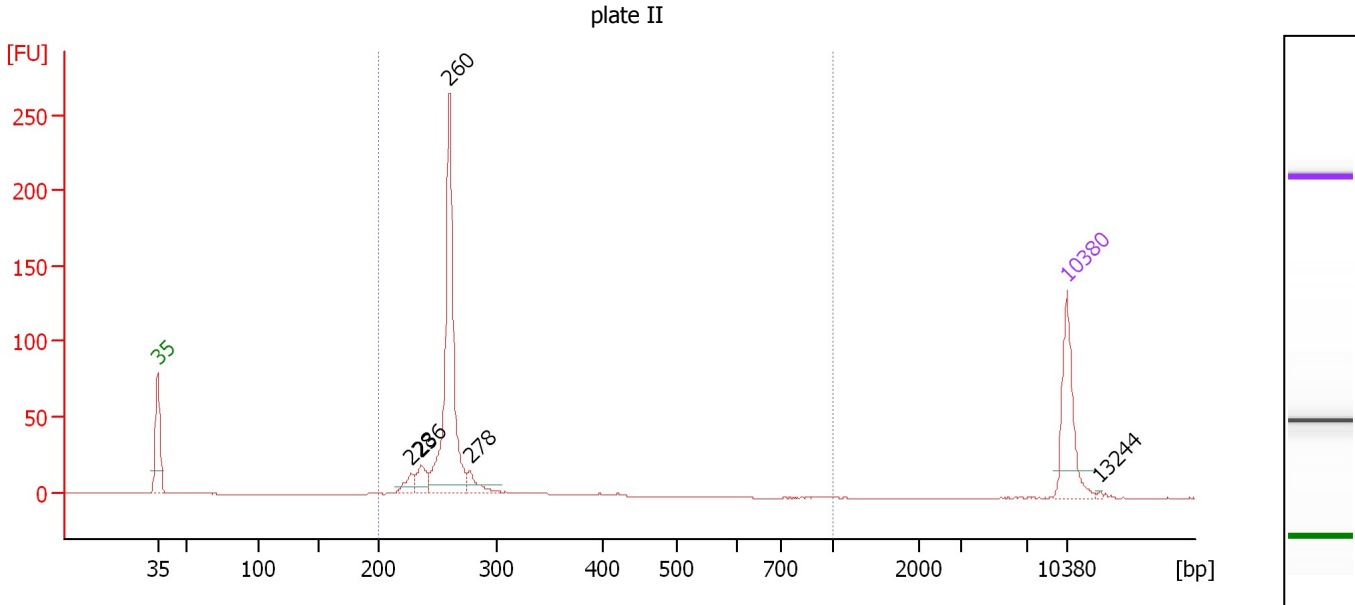
Region table for sample 1 : plate I

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	283	558.2	3,238.7	594.75	98	13.8

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Created: 6/15/2016 11:37:04 AM
 Modified: 6/15/2016 12:01:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : plate II

Number of peaks found: 5 Corr. Area 1: 387.0
 Noise: 0.2

Peak table for sample 2 : plate 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	228	20.92	139.3		62.55
3	236	29.05	186.5		63.31
4	260	330.55	1,928.2		65.45
5	278	21.20	115.7		67.06
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,244	0.00	0.0		115.55

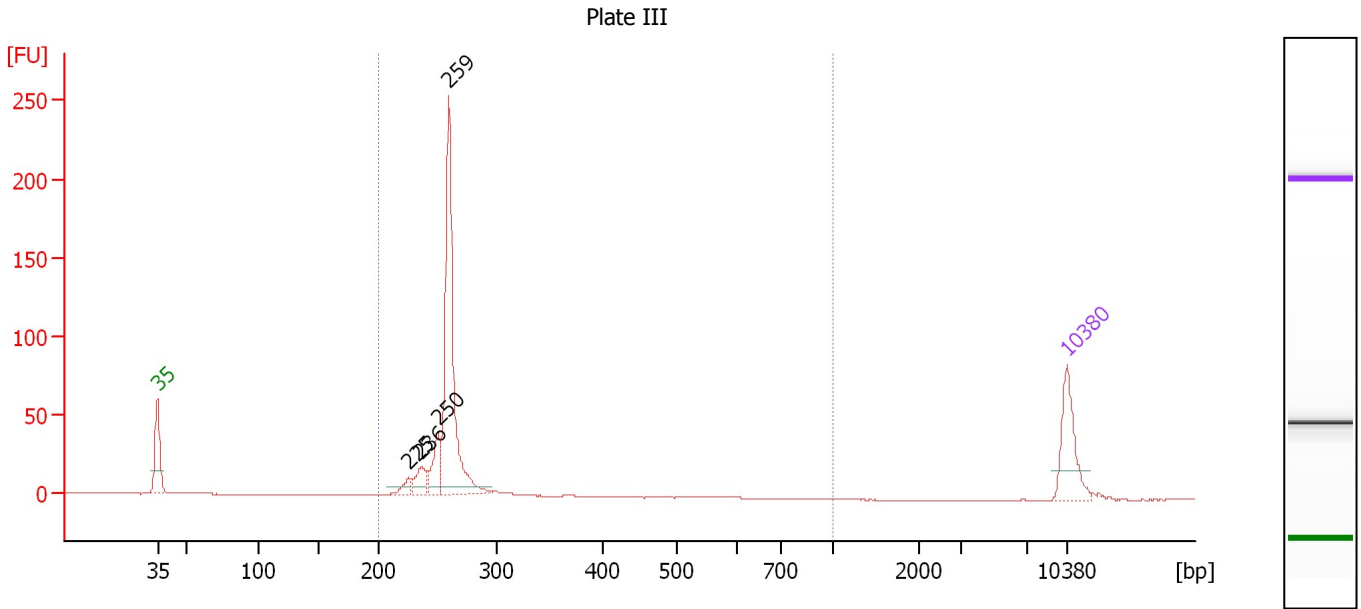
Region table for sample 2 : plate II

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	259	387.0	2,431.4	415.05	99	6.3

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Created: 6/15/2016 11:37:04 AM
 Modified: 6/15/2016 12:01:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Plate III

Number of peaks found: 4 Corr. Area 1: 378.1
 Noise: 0.2

Peak table for sample 3 : Plate III

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	225	19.30	130.0		62.31
3	236	39.36	252.8		63.30
4	250	61.56	373.2		64.57
5	259	405.49	2,367.9		65.43
6	10,380	75.00	10.9	Upper Marker	113.00

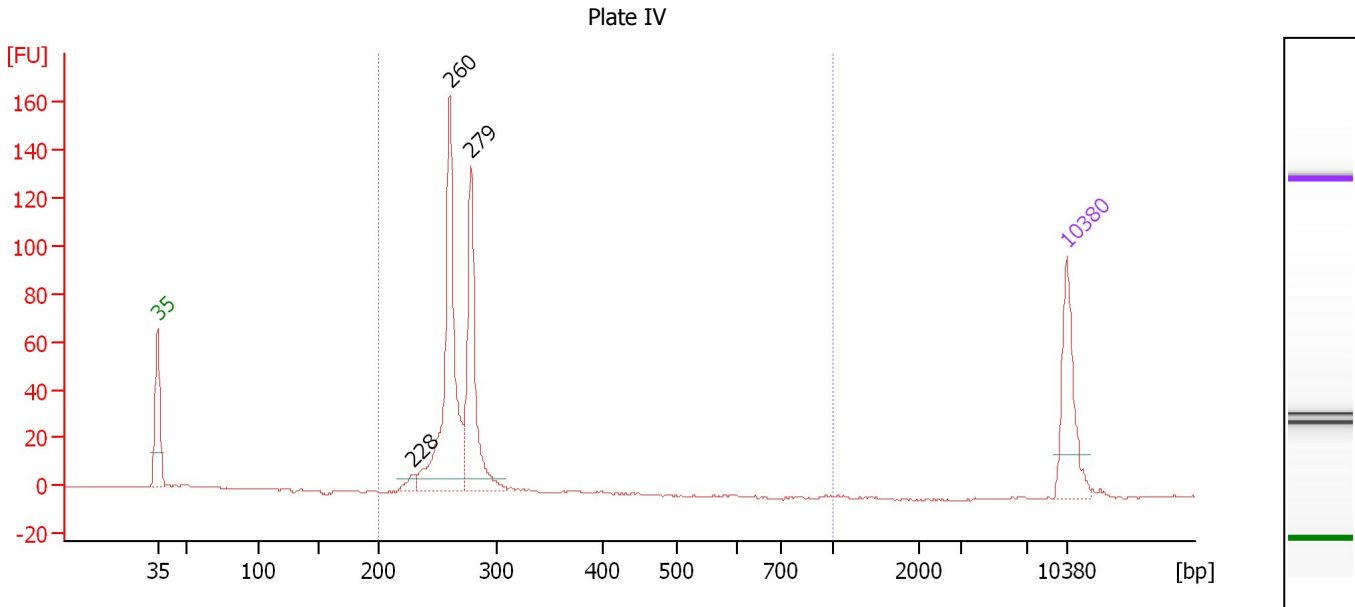
Region table for sample 3 : Plate III

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	257	378.1	3,212.8	545.70	98	5.1

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-15\2016-06-15_001.xad

Created: 6/15/2016 11:37:04 AM
 Modified: 6/15/2016 12:01:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Plate IV

Number of peaks found: 3 Corr. Area 1: 375.8
 Noise: 0.2

Peak table for sample 4 : Plate IV

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	228	12.85	85.3		62.61
3	260	305.59	1,778.8		65.50
4	279	196.58	1,068.8		67.16
5	10,380	75.00	10.9	Upper Marker	113.00

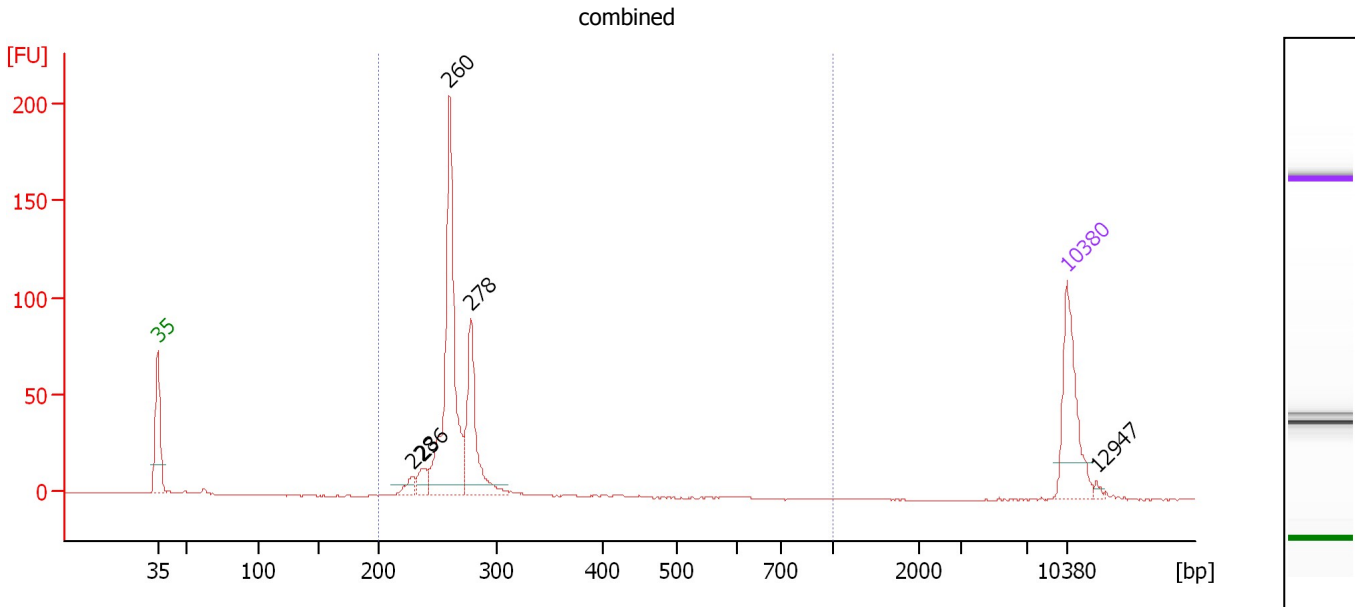
Region table for sample 4 : Plate IV

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	267	375.8	2,860.2	503.07	99	5.2

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-15\2016-06-15_001.xad

Created: 6/15/2016 11:37:04 AM
 Modified: 6/15/2016 12:01:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : combined

Number of peaks found: 5 Corr. Area 1: 405.2
 Noise: 0.2

Peak table for sample 5 : combined

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	228	13.70	90.8		62.63
3	236	19.60	125.7		63.33
4	260	279.37	1,627.9		65.48
5	278	116.11	632.6		67.11
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,947	0.00	0.0		115.29

Region table for sample 5 : combined

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	264	405.2	2,461.3	428.67	97	5.7

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Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-15\2016-06-15_001.xad

Created: 6/15/2016 11:37:04 AM
Modified: 6/15/2016 12:01:13 PM

Gel Image

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Modified: 6/15/2016 12:01:13 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.

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 Modified: 6/15/2016 12:01:13 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		6/15/2016 12:01:13 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\2016-06-15\2016-06-15_001.xad)		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/15/2016 11:37:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1