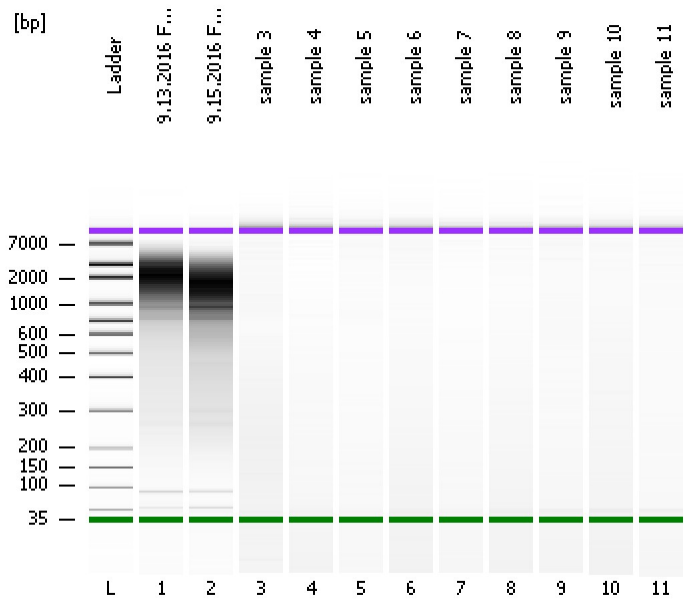
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

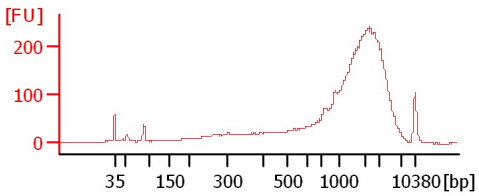
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

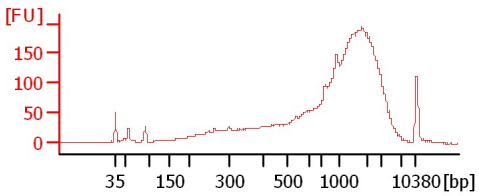
Chip Information:

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

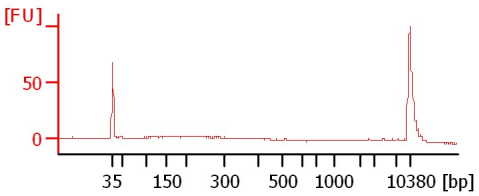
9.13.2016 FACS Cux1 cDNA



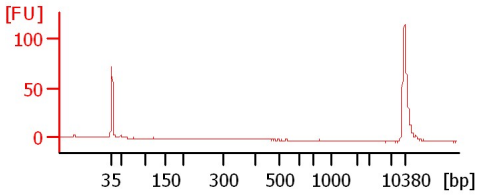
9.15.2016 FACS Cux1 cDNA



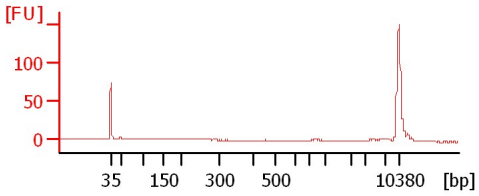
sample 3



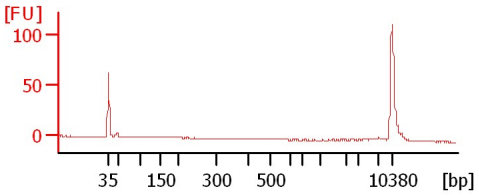
sample 4



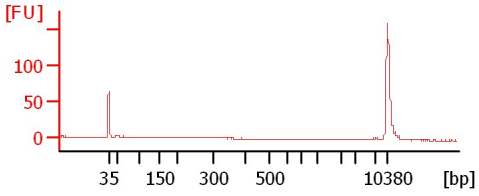
sample 5



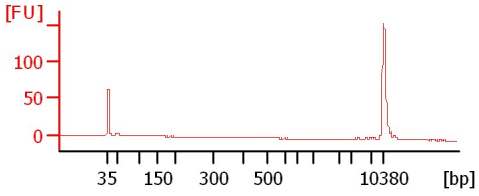
sample 6



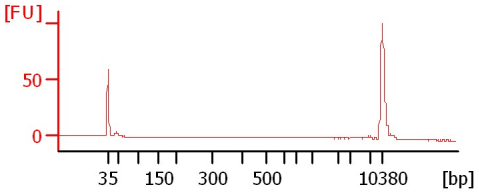
sample 7



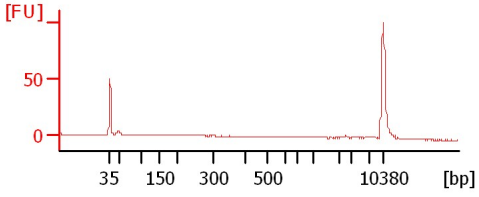
sample 8



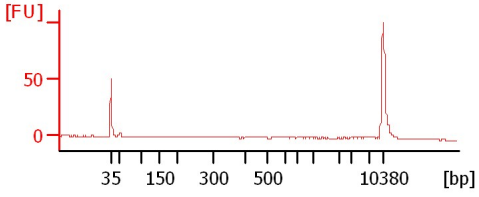
sample 9



sample 10



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9.13.2016 FACS Cux1 cDNA		☐	✔			
9.15.2016 FACS Cux1 cDNA		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐	✔			
sample 10		☐	✔			
sample 11		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

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\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
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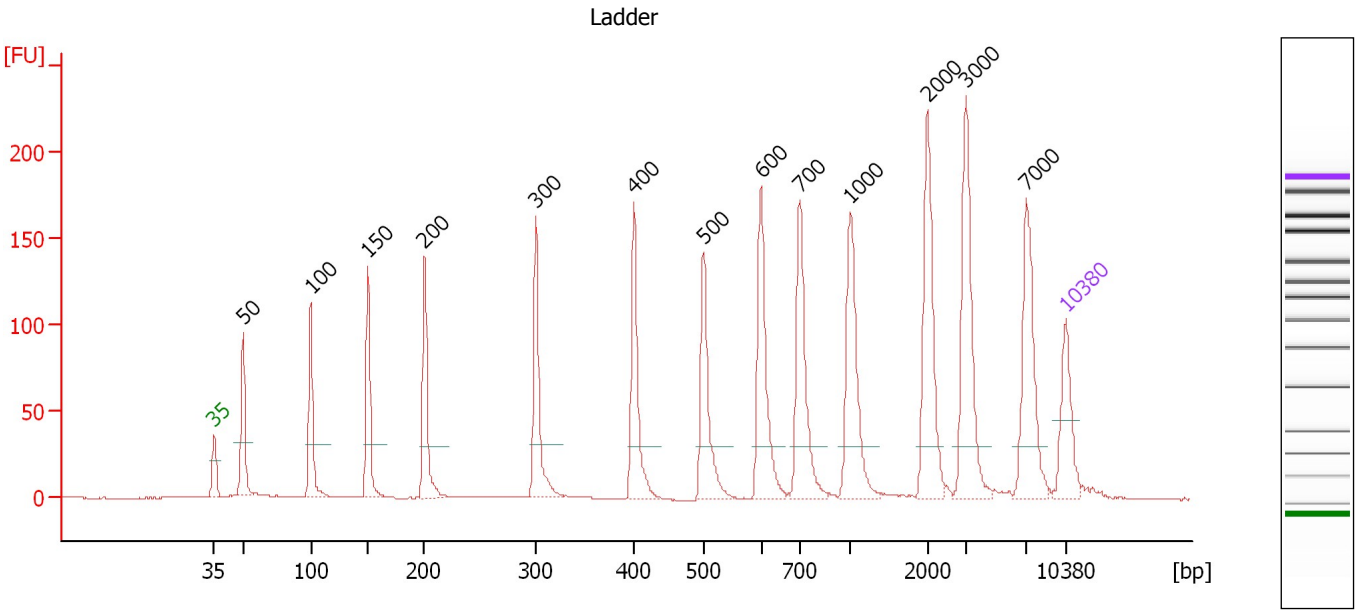
Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

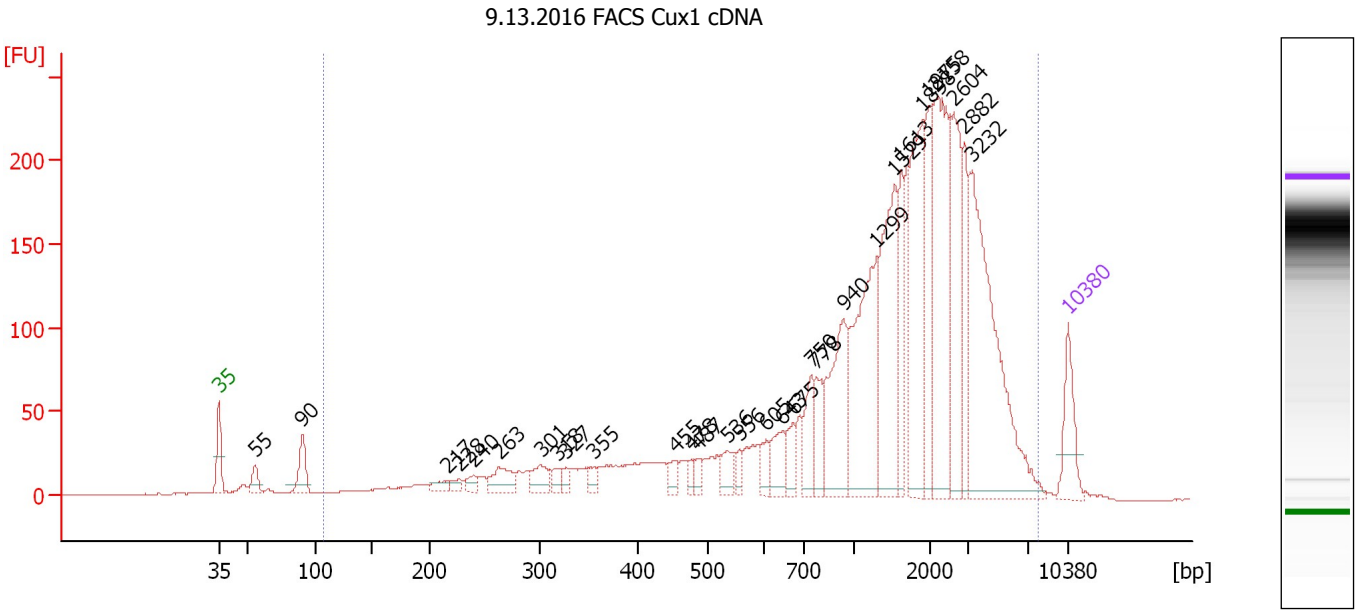
Peak table for Ladder

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	45.37
3		100	150.00	2,272.7	Ladder Peak	50.93
4		150	150.00	1,515.2	Ladder Peak	55.62
5		200	150.00	1,136.4	Ladder Peak	60.27
6		300	150.00	757.6	Ladder Peak	69.43
7		400	150.00	568.2	Ladder Peak	77.50
8		500	150.00	454.5	Ladder Peak	83.19
9		600	150.00	378.8	Ladder Peak	87.93
10		700	150.00	324.7	Ladder Peak	91.13
11		1,000	150.00	227.3	Ladder Peak	95.29
12		2,000	150.00	113.6	Ladder Peak	101.60
13		3,000	150.00	75.8	Ladder Peak	104.76
14		7,000	150.00	32.5	Ladder Peak	109.71
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 9.13.2016 FACS Cux1 cDNA

Number of peaks found:	30	Corr. Area 1:	3,541.0
Noise:	0.3		

Peak table for sample 1 : 9.13.2016 FACS Cux1 cDNA

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	55	40.18	1,103.2		45.94
3	90	82.49	1,384.0		49.85
4	217	23.65	164.9		61.85
5	228	16.03	106.6		62.82
6	240	20.01	126.2		63.96
7	263	64.42	370.7		66.07
8	301	45.19	227.6		69.50
9	318	22.18	105.6		70.90
10	327	21.18	98.1		71.61
11	355	19.68	83.9		73.89
12	455	25.84	86.1		80.61
13	478	18.14	57.5		81.93
14	487	18.57	57.8		82.46
15	536	42.63	120.4		84.92
16	556	22.42	61.1		85.84
17	605	30.72	76.9		88.08
18	643	62.37	146.9		89.32
19	675	44.92	100.8		90.33
20	750	76.70	155.0		91.82
21	778	64.92	126.4		92.22
22	940	203.25	327.7		94.46
23	1,299	302.77	353.1		97.18
24	1,529	263.56	261.2		98.63
25	1,613	106.55	100.1		99.16

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 9.13.2016 FACS Cux1 cDNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,898	253.51	202.4		100.96
27	1,975	130.16	99.9		101.44
28	2,158	317.60	223.0		102.10
29	2,604	193.30	112.5		103.51
30	2,882	103.40	54.4		104.39
31	3,232	436.91	204.8		105.05
32	10,380	75.00	10.9	Upper Marker	113.00

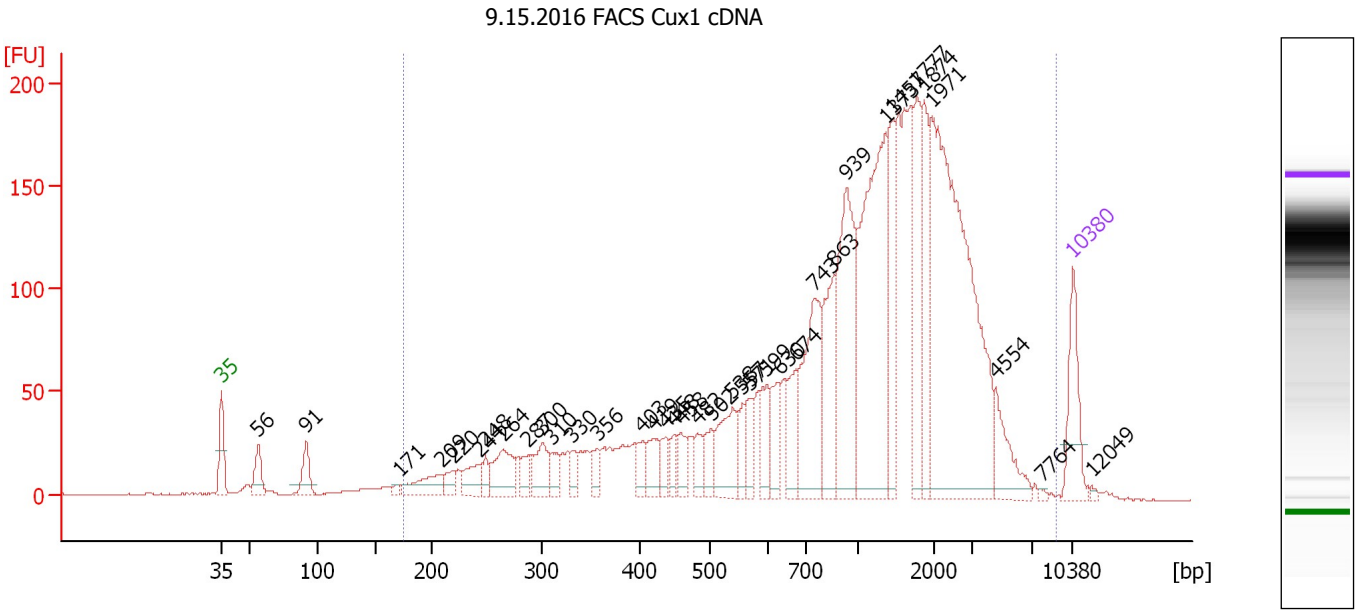
Region table for sample 1 : 9.13.2016 FACS Cux1 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
106	7,739	1,887	3,541.0	7,338.8		3,684.94	97	70.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9.15.2016 FACS Cux1 cDNA

Number of peaks found:	37	Corr. Area 1:	3,548.2
Noise:	0.3		

Peak table for sample 2 : 9.15.2016 FACS Cux1 cDNA

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	56	55.10	1,492.7		46.03
3	91	58.02	962.0		49.97
4	171	9.58	84.8		57.61
5	209	62.70	455.1		61.07
6	220	24.62	169.8		62.08
7	244	52.50	325.8		64.32
8	248	20.92	127.6		64.71
9	264	86.77	497.5		66.16
10	287	29.96	158.0		68.26
11	300	61.64	311.6		69.40
12	310	28.90	141.2		70.24
13	330	23.82	109.3		71.86
14	356	28.02	119.4		73.92
15	403	36.70	138.1		77.65
16	419	45.13	163.3		78.57
17	435	29.36	102.3		79.49
18	448	26.53	89.7		80.24
19	458	36.27	119.9		80.81
20	482	31.97	100.5		82.17
21	502	38.68	116.7		83.31
22	538	101.05	284.8		84.97
23	557	32.28	87.8		85.89
24	571	36.74	97.5		86.55
25	599	50.84	128.7		87.87

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 9.15.2016 FACS Cux1 cDNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	630	55.20	132.8		88.88
27	674	63.62	143.1		90.28
28	743	194.18	395.8		91.73
29	863	126.94	222.8		93.39
30	939	240.93	388.7		94.45
31	1,373	373.33	411.8		97.65
32	1,457	111.52	116.0		98.18
33	1,777	118.95	101.5		100.19
34	1,874	107.34	86.8		100.81
35	1,971	564.79	434.1		101.42
36	4,554	62.35	20.7		106.68
37	7,764	2.86	0.6		110.46
38	10,380	75.00	10.9	Upper Marker	113.00
39	12,049	0.00	0.0		114.62

Region table for sample 2 : 9.15.2016 FACS Cux1 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
176	8,959	1,462	3,548.2	7,926.1	3,536.97	96	76.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
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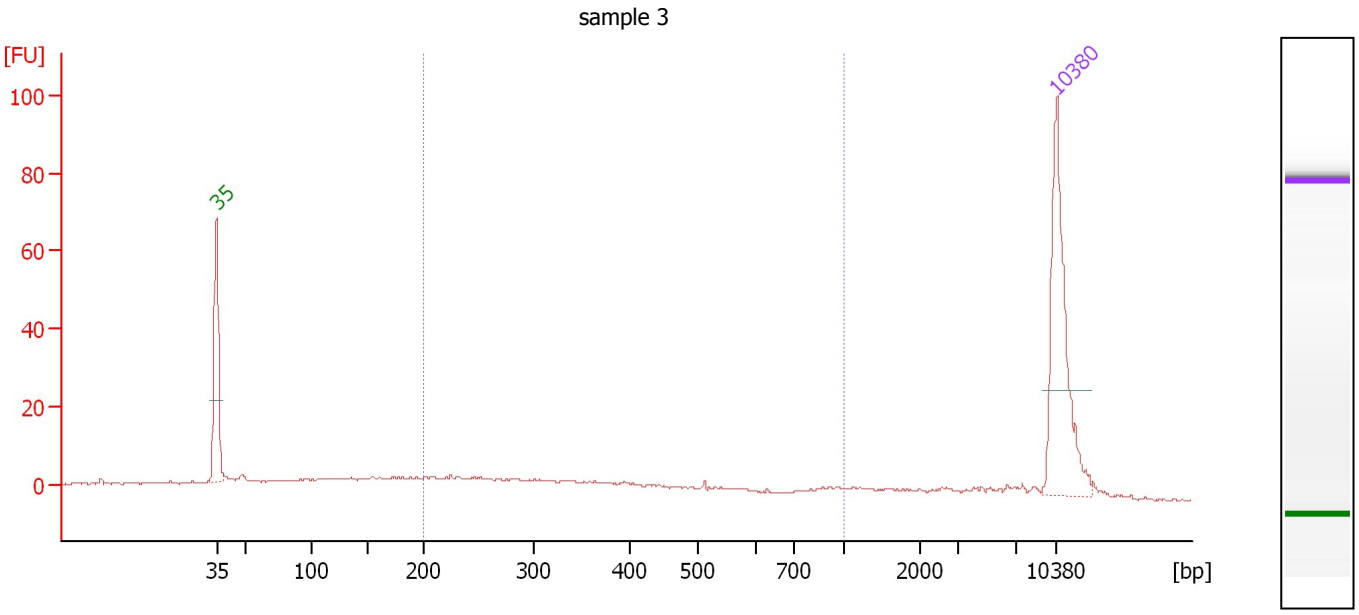
Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found:	0	Corr. Area 1:	98.9
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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	397	98.9	433.6	91.06	45	46.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

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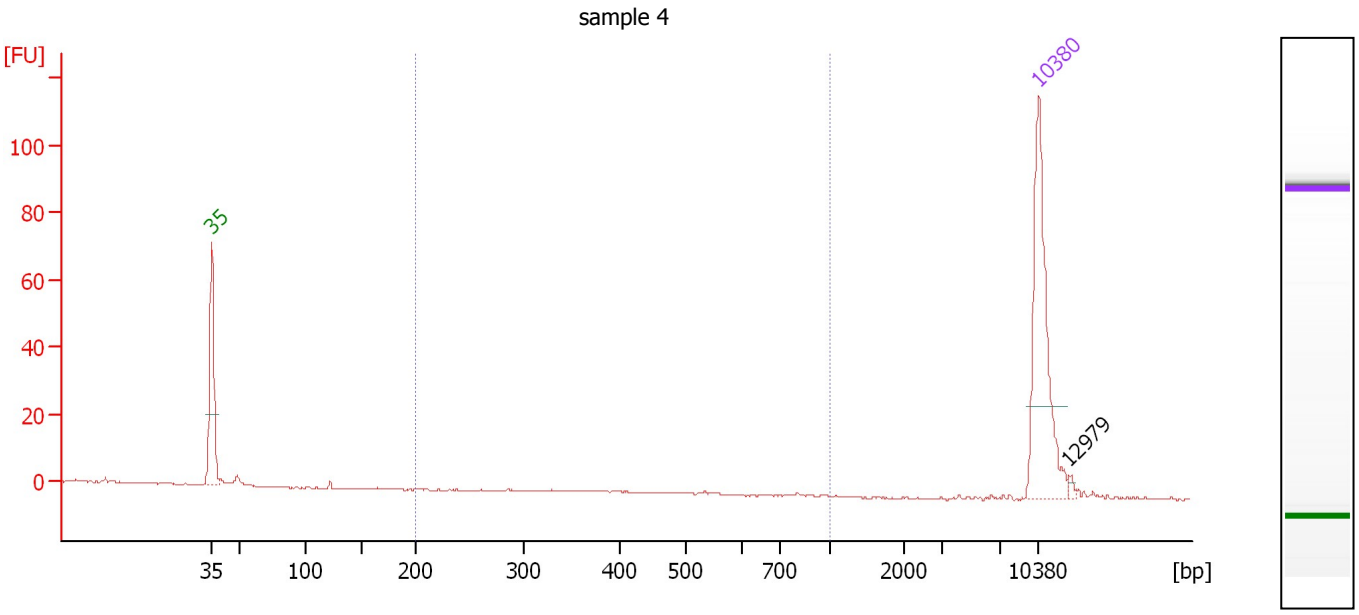
Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found:	1	Corr. Area 1:	0.1
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	10,380	75.00	10.9	Upper Marker	113.00
3	12,979	0.00	0.0		115.53

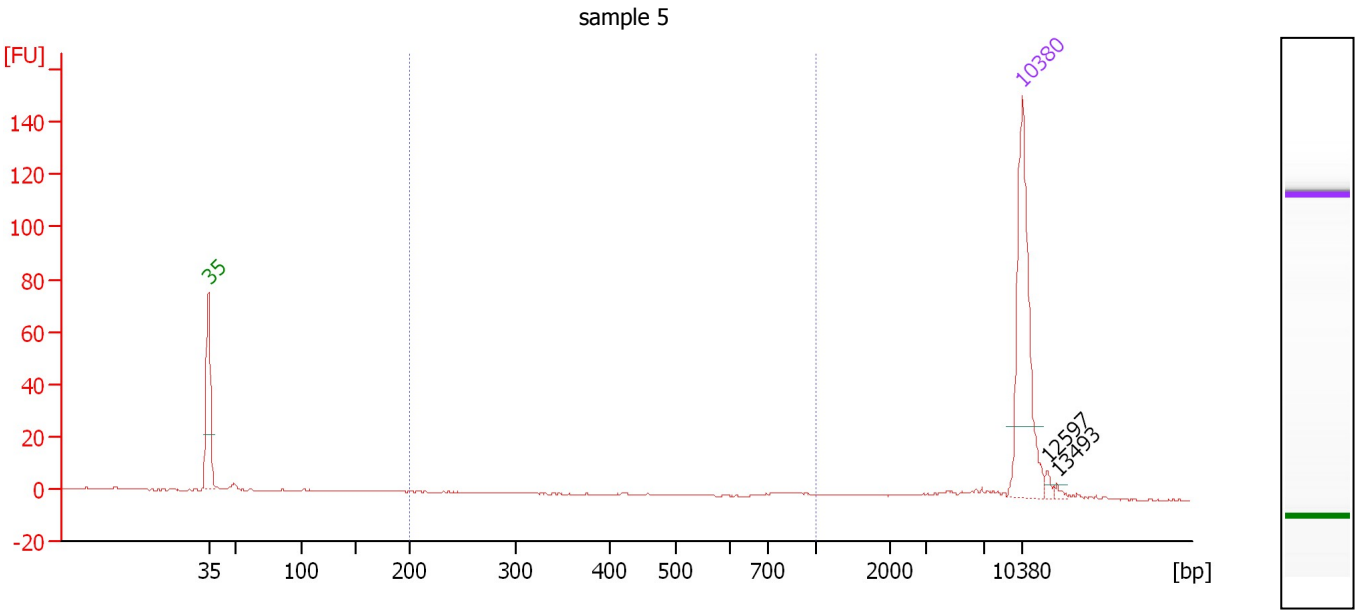
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	754	0.1	0.1	0.04	0	13.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found:	2	Corr. Area 1:	15.1
Noise:	0.2		

Peak table for sample 5 : sample 5

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
3	12,597	0.00	0.0		115.16
4	13,493	0.00	0.0		116.03

Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	597	15.1	37.9	10.16	20	43.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
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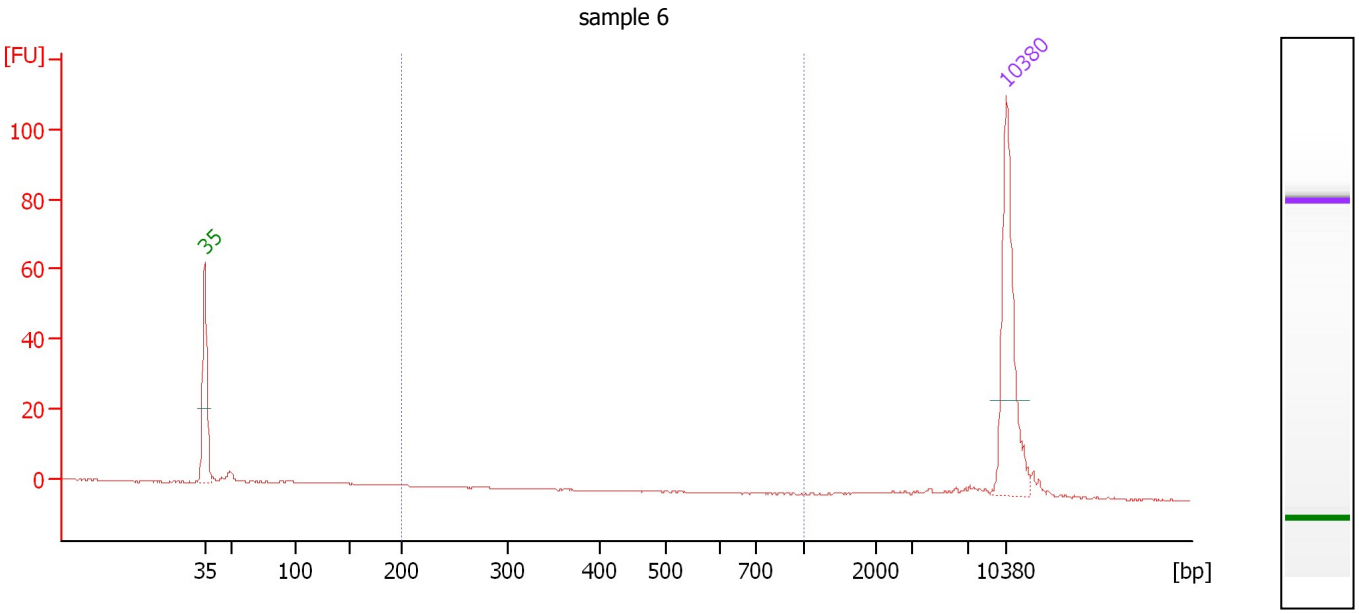
Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found:	0	Corr. Area 1:	0.1
Noise:	0.1		

Peak table for sample 6 : sample 6

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 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	215	0.1	0.6	0.08	0	9.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

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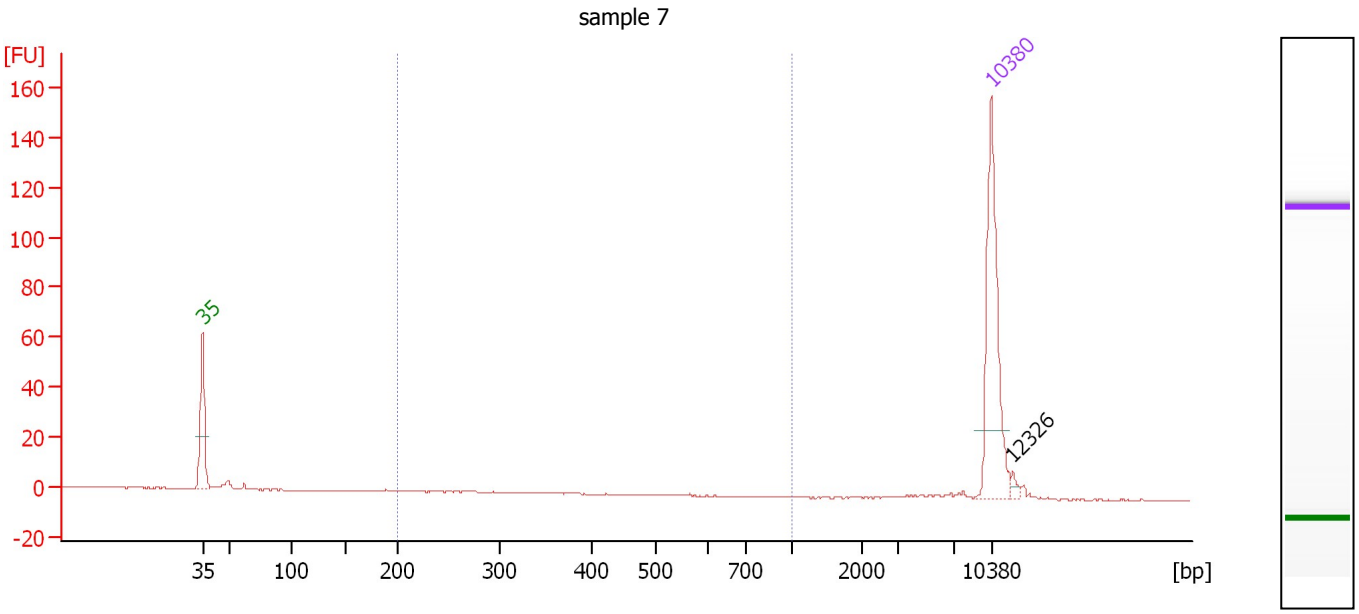
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found:	1	Corr. Area 1:	0.0
Noise:	0.1		

Peak table for sample 7 : sample 7

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
3	12,326	0.00	0.0		114.89

Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	432	0.0	0.1		0.03	0	33.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
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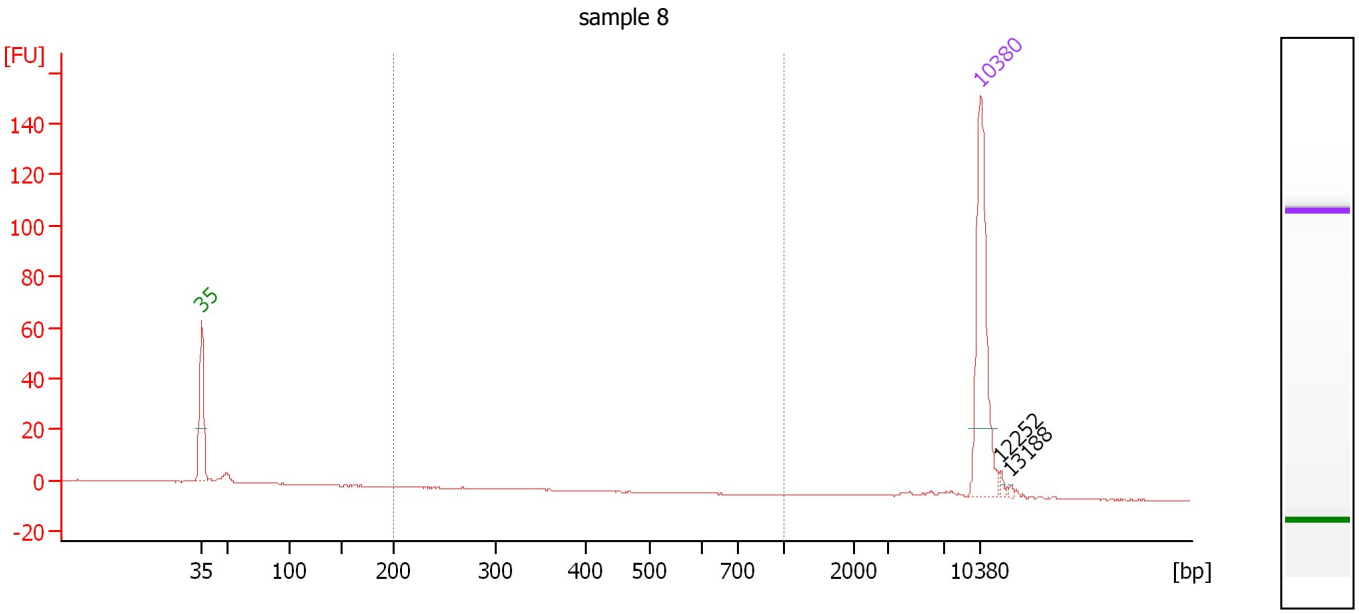


Overall Results for sample 8 : sample 8

Number of peaks found:	2	Corr. Area 1:	0.6
Noise:	0.1		

Peak table for sample 8 : sample 8

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
3	12,252	0.00	0.0		114.82
4	13,188	0.00	0.0		115.73

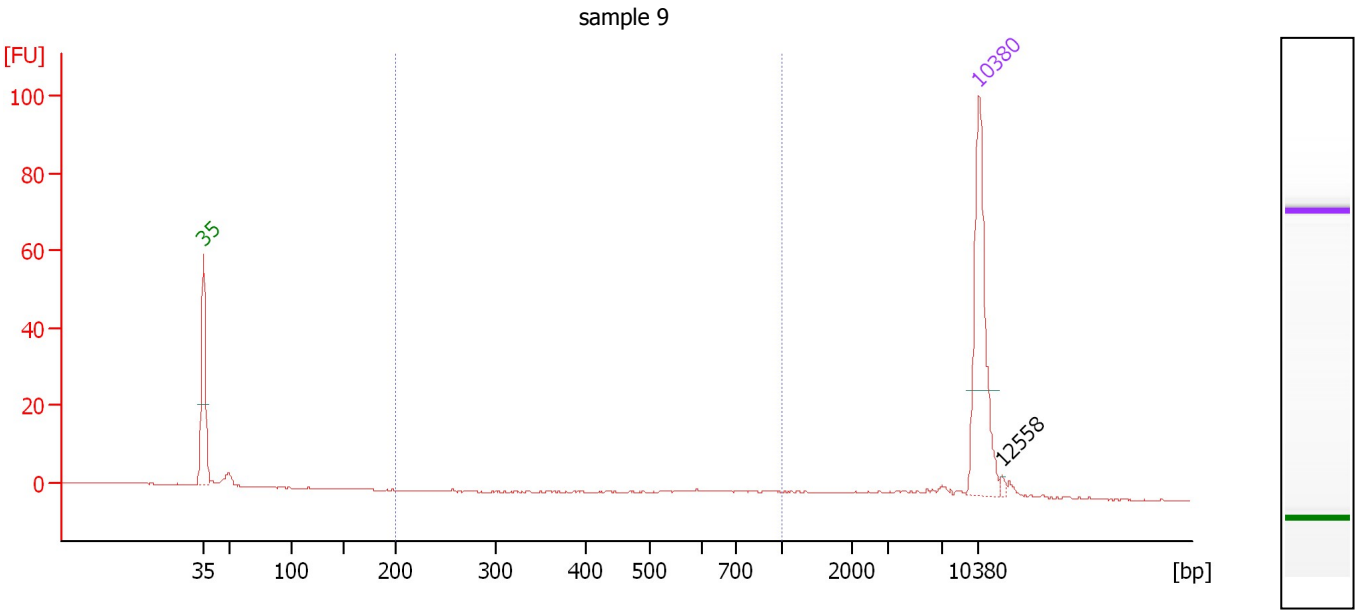
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	304	0.6	2.6		0.50	1	15.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found:	1	Corr. Area 1:	6.1
Noise:	0.1		

Peak table for sample 9 : sample 9

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
3	12,558	0.00	0.0		115.12

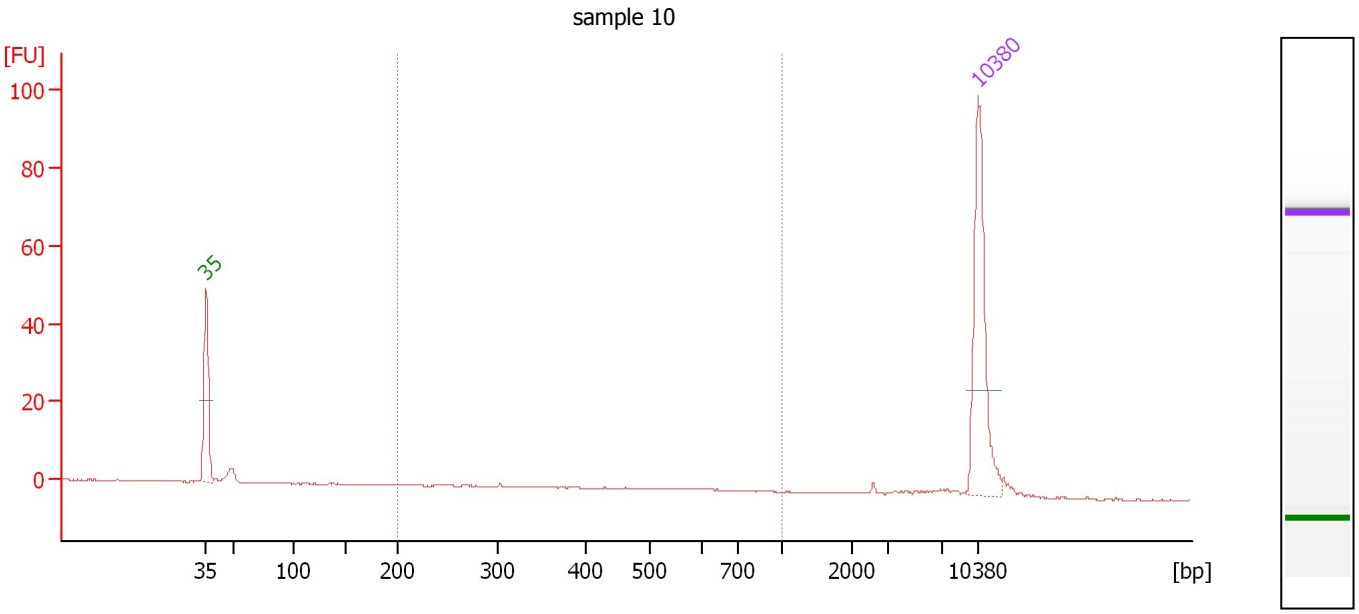
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	718	6.1	12.4	5.64	17	19.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found:	0	Corr. Area 1:	19.1
Noise:	0.1		

Peak table for sample 10 : sample 10

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

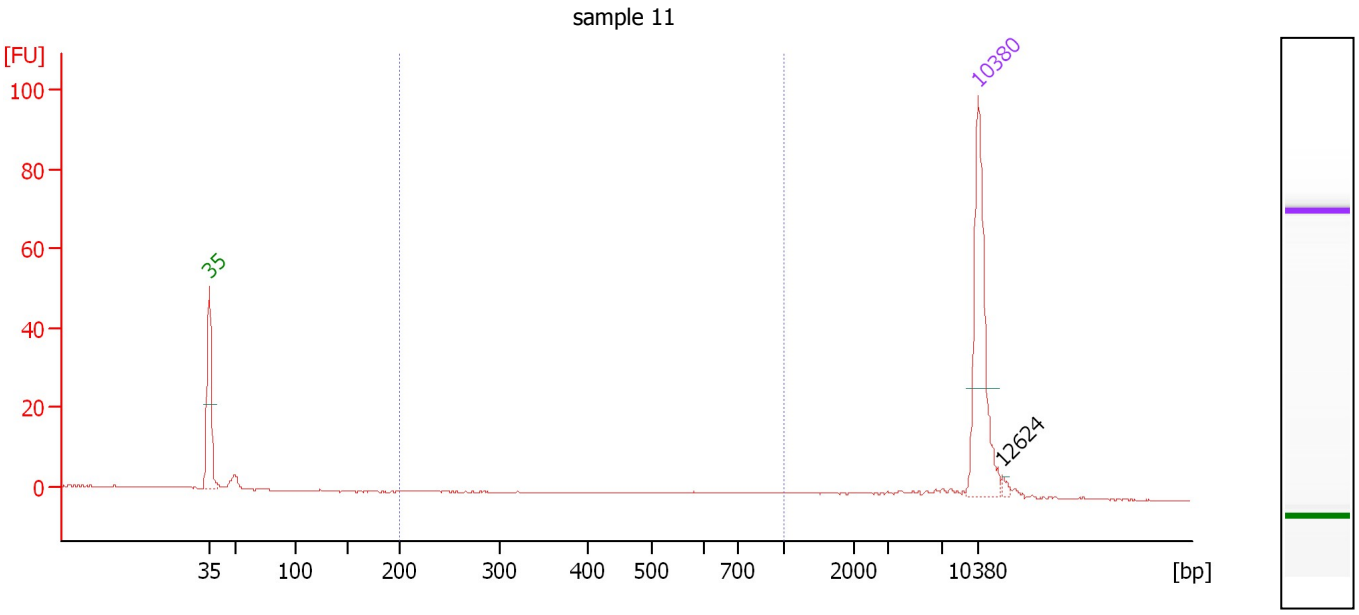
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	463	19.1	83.0	20.46	35	38.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found:	1	Corr. Area 1:	7.1
Noise:	0.1		

Peak table for sample 11 : sample 11

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
3	12,624	0.00	0.0		115.18

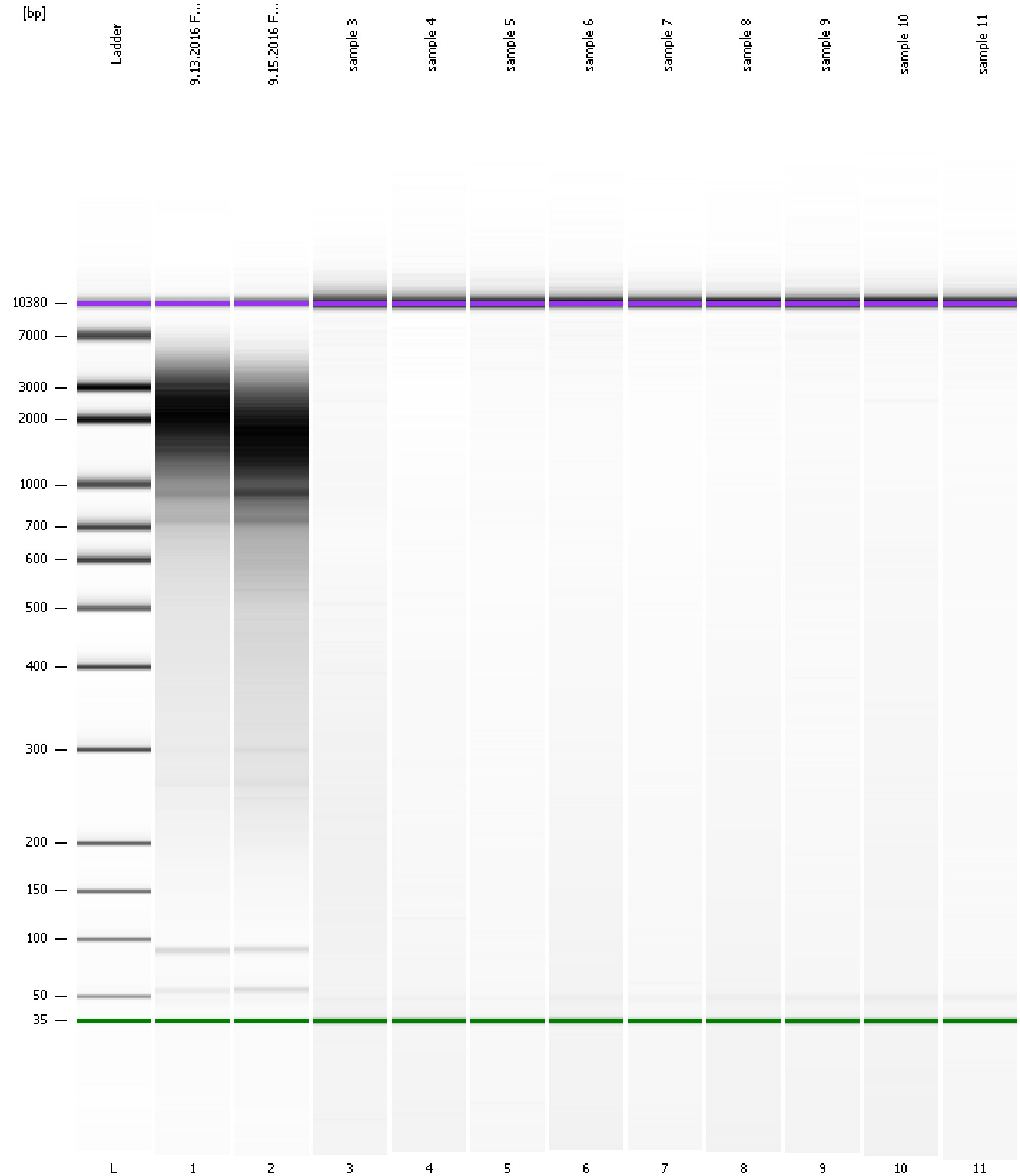
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	676	7.1	17.2		7.08	19	24.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad

Created: 9/16/2016 10:48:45 AM
Modified: 9/16/2016 11:30:03 AM

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		9/16/2016 11:30:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_001.xad)		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2016 10:48:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1