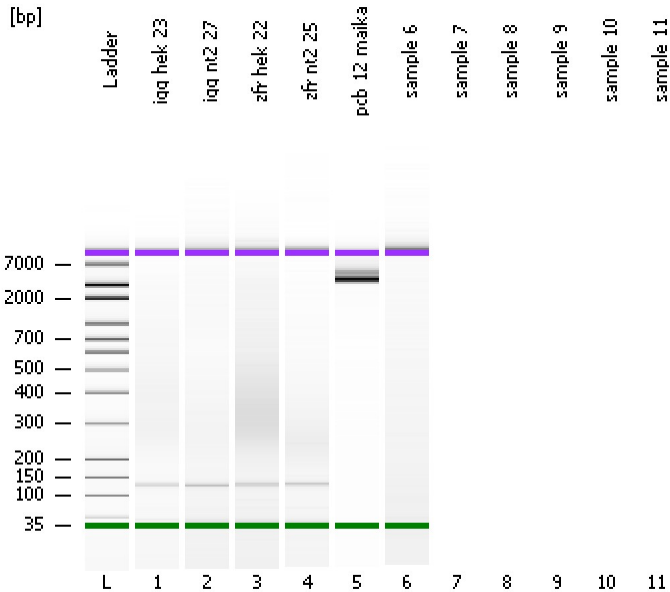


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
Modified: 4/11/2017 2:49:31 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

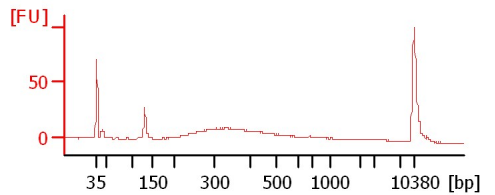
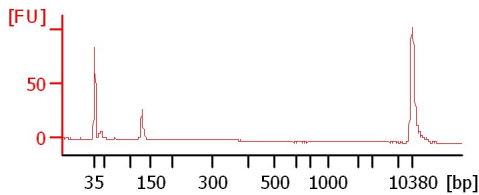
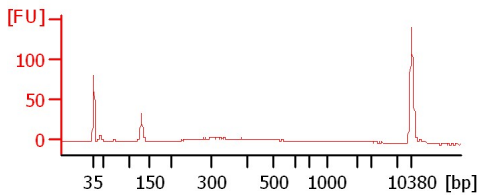
Chip Information:

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

igg hek 23

igg nt2 27

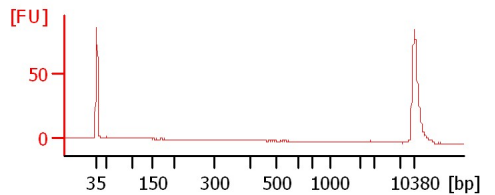
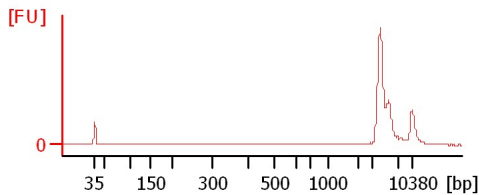
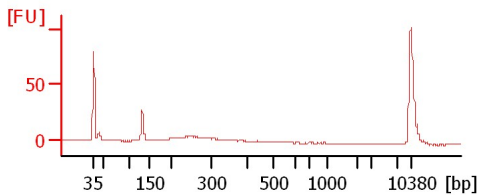
zfr hek 22



zfr nt2 25

pcb 12 maika

sample 6



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
Modified: 4/11/2017 2:49:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
igg hek 23		<input type="checkbox"/>	✓			
igg nt2 27		<input type="checkbox"/>	✓			
zfr hek 22		<input type="checkbox"/>	✓			
zfr nt2 25		<input type="checkbox"/>	✓			
pcb 12 maika		<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\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
Modified: 4/11/2017 2:49:31 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

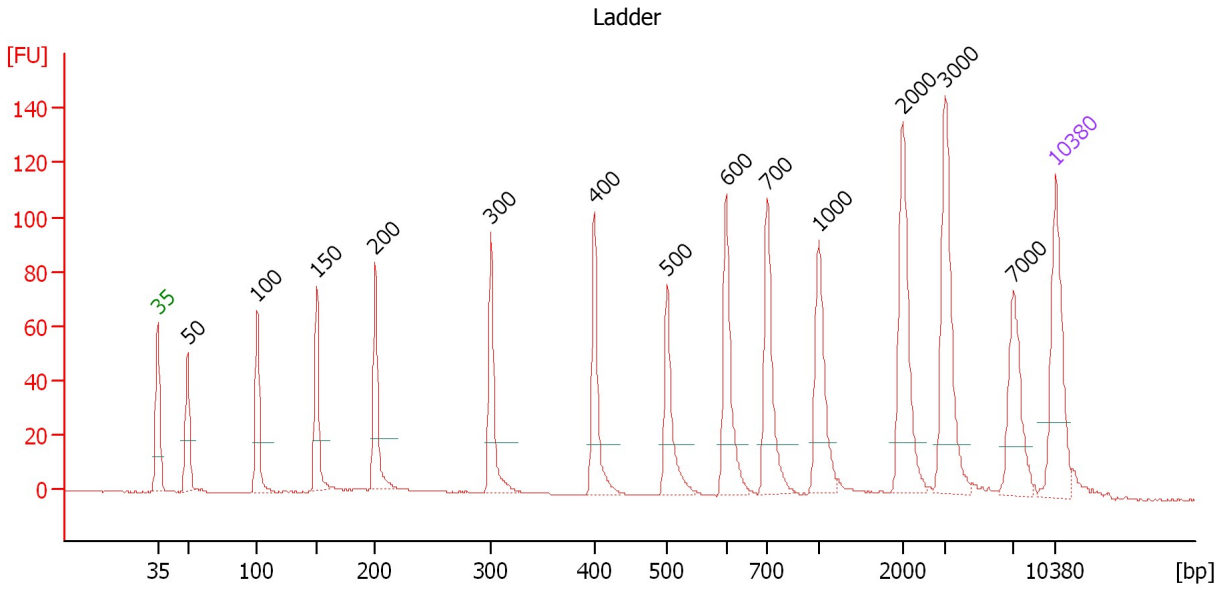
Ladder

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\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

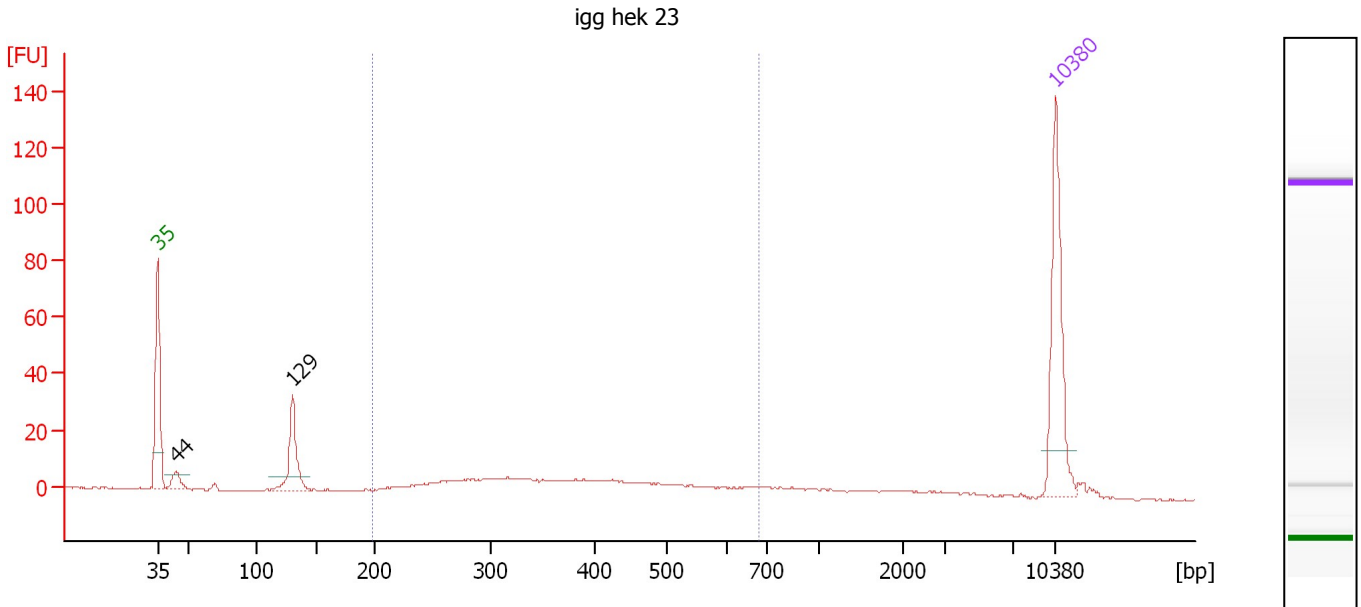
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.77
4	150	150.00	1,515.2	Ladder Peak	55.43
5	200	150.00	1,136.4	Ladder Peak	60.00
6	300	150.00	757.6	Ladder Peak	69.00
7	400	150.00	568.2	Ladder Peak	77.04
8	500	150.00	454.5	Ladder Peak	82.75
9	600	150.00	378.8	Ladder Peak	87.32
10	700	150.00	324.7	Ladder Peak	90.57
11	1,000	150.00	227.3	Ladder Peak	94.54
12	2,000	150.00	113.6	Ladder Peak	101.12
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : igg hek 23

Number of peaks found: 2 Corr. Area 1: 139.8
 Noise: 0.2

Peak table for sample 1 : igg hek 23

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	44	15.59	536.1		44.41
3	129	56.93	666.5		53.51
4	10,380	75.00	10.9	Upper Marker	113.00

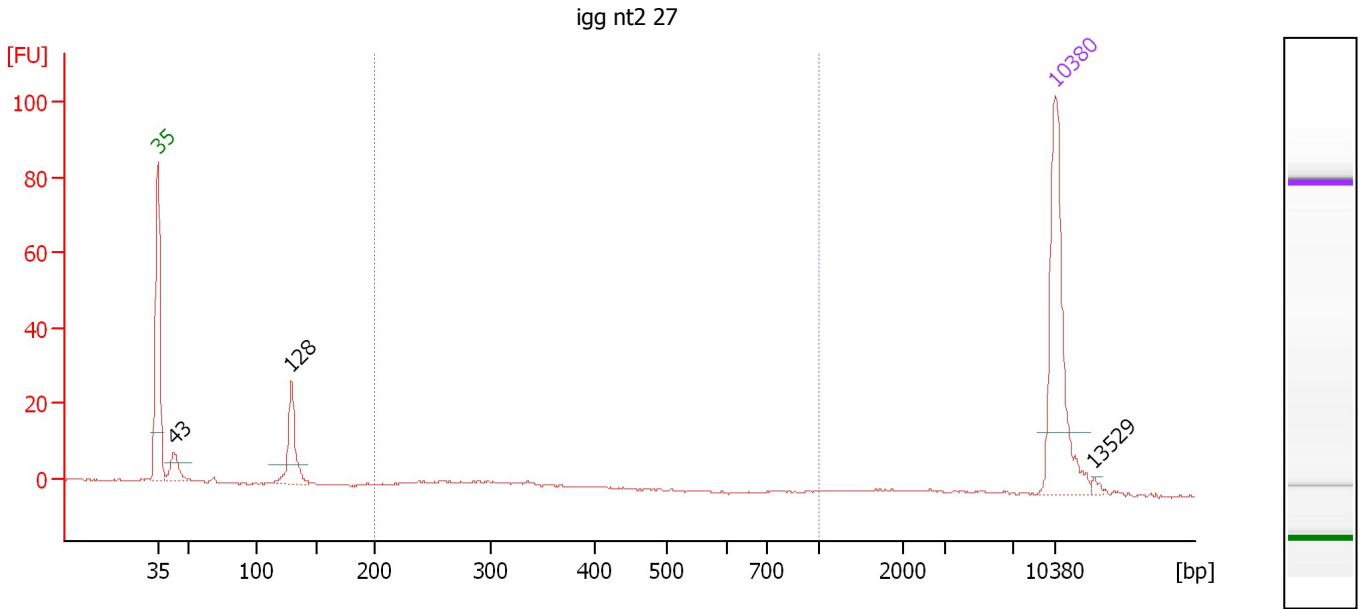
Region table for sample 1 : igg hek 23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
198	678	392	139.8	611.2	140.63	60	28.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : igg nt2 27

Number of peaks found: 3 Corr. Area 1: 19.3
 Noise: 0.2

Peak table for sample 2 : igg nt2 27

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	43	20.01	699.5		44.30
3	128	45.62	538.5		53.41
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,529	0.00	0.0		116.02

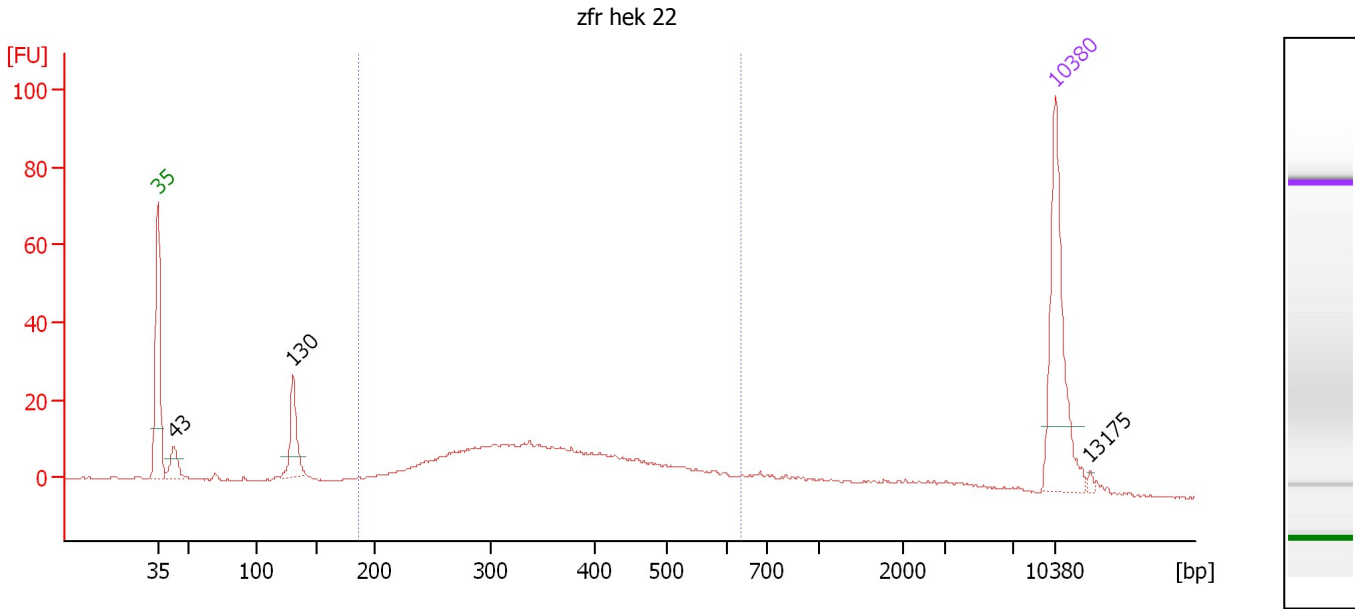
Region table for sample 2 : igg nt2 27

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	318	19.3	105.4	20.53	22	34.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : zfr hek 22

Number of peaks found: 3 Corr. Area 1: 288.5
 Noise: 0.2

Peak table for sample 3 : zfr hek 22

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	43	20.85	731.9		44.27
3	130	42.74	497.3		53.59
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,175	0.00	0.0		115.68

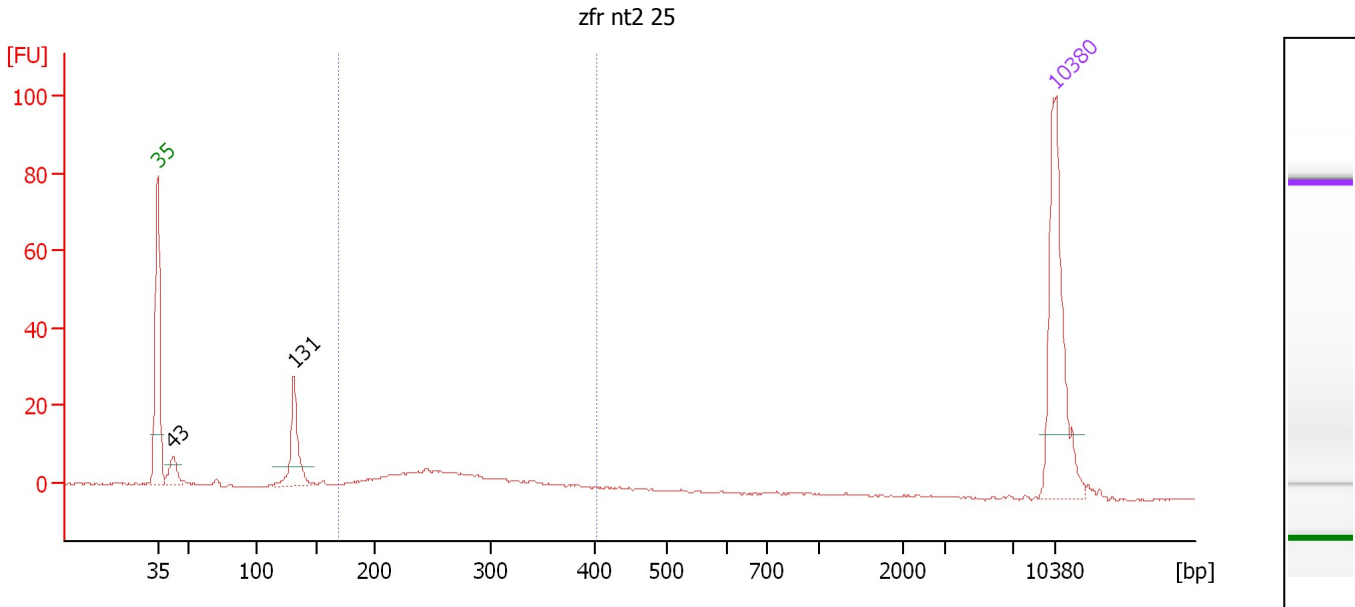
Region table for sample 3 : zfr hek 22

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
185	637	370	288.5	1,452.9	319.15	68	27.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : zfr nt2 25

Number of peaks found: 2 Corr. Area 1: 70.1
 Noise: 0.2

Peak table for sample 4 : zfr nt2 25

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	43	17.04	604.8		44.19
3	131	45.74	529.5		53.65
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : zfr nt2 25

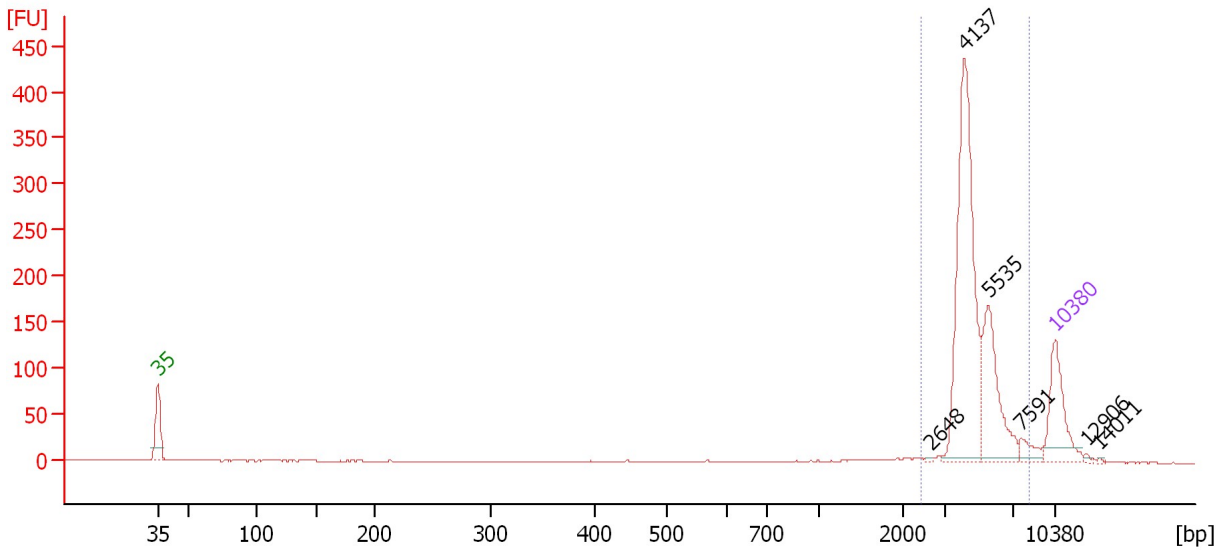
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
169	404	267	70.1	447.3	75.43	56	19.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Electropherogram Summary Continued ...

pcb 12 maika



Overall Results for sample 5 : pcb 12 maika

Number of peaks found: 6 Corr. Area 1: 865.7
 Noise: 0.2

Peak table for sample 5 : pcb 12 maika

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	2,648	1.58	0.9		103.25
3	4,137	312.55	114.5		105.93
4	5,535	119.01	32.6		107.80
5	7,591	17.72	3.5		110.32
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,906	0.00	0.0		115.42
8	14,011	0.00	0.0		116.48

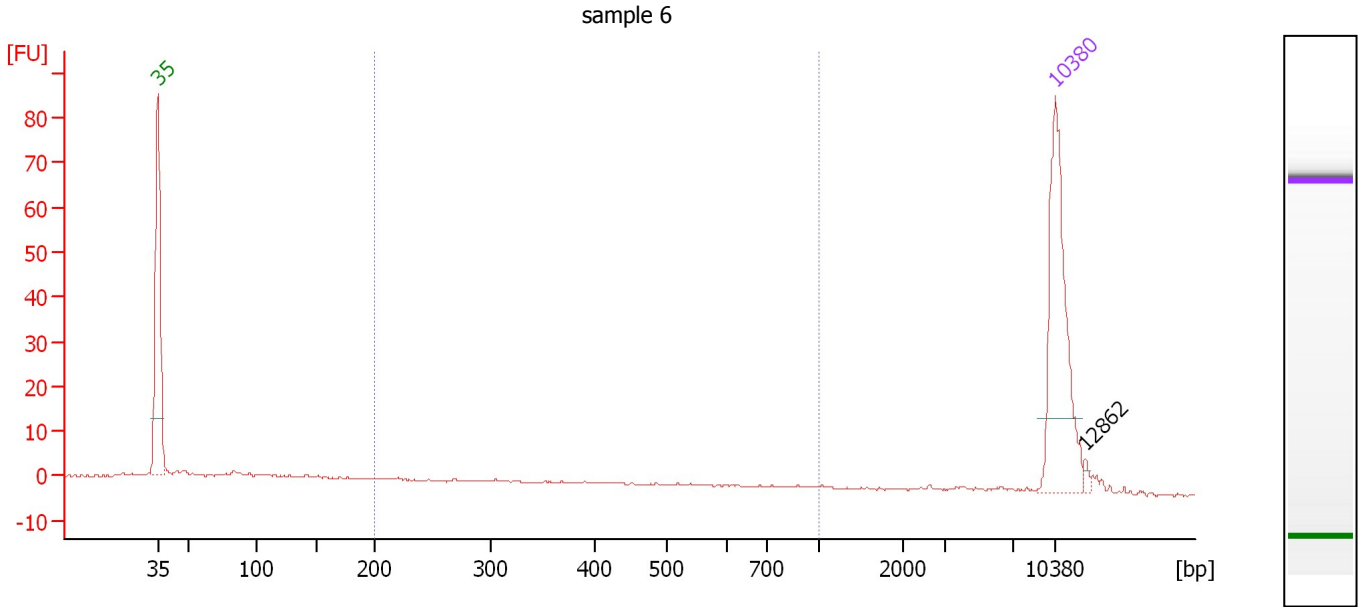
Region table for sample 5 : pcb 12 maika

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
2,423	8,268	4,693	865.7	147.4	450.95	91	21.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 1 Corr. Area 1: 20.3
 Noise: 0.2

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
3	12,862	0.00	0.0		115.38

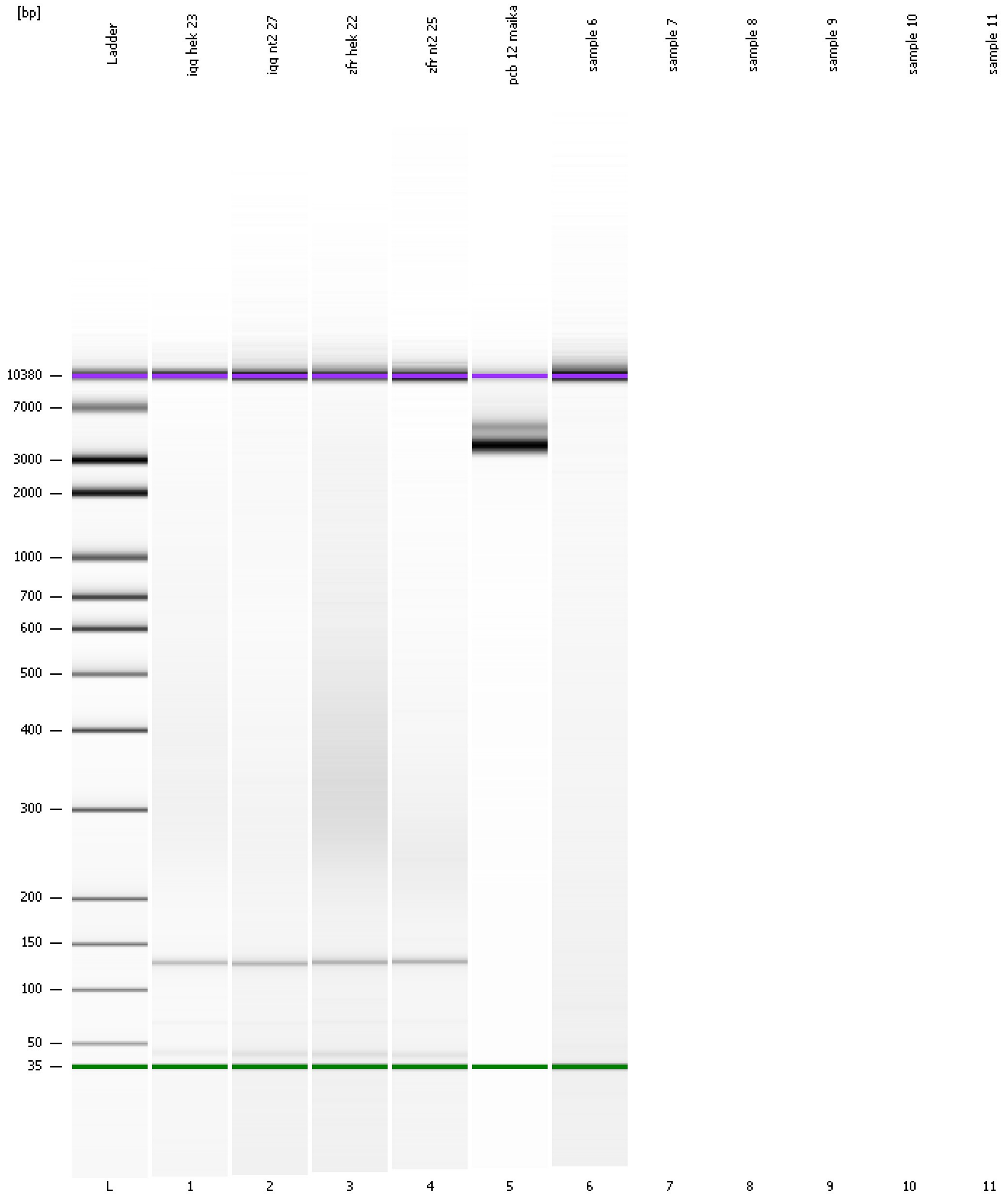
Region table for sample 6 : sample 6

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	420	20.3	90.5	20.02	28	43.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
Modified: 4/11/2017 2:49:31 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
Modified: 4/11/2017 2:49:31 PM

Invalid Samples

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
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_004.xad

Created: 4/11/2017 2:22:28 PM
 Modified: 4/11/2017 2:49:31 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		4/11/2017 2:49:29 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\2017-04-11\2017-04-11_004.xad)		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2017 2:22:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1