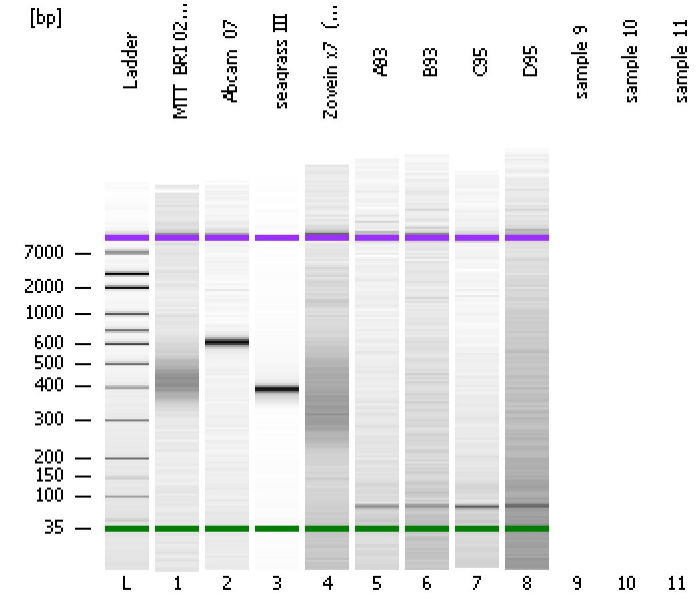
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 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

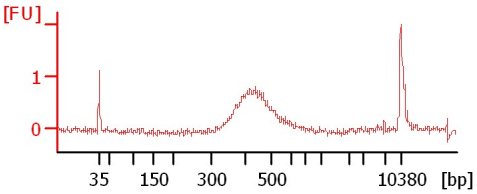
Chip Information:

Chip Lot #:

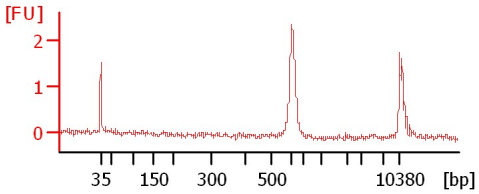
Reagent Kit Lot #:

Chip Comments:

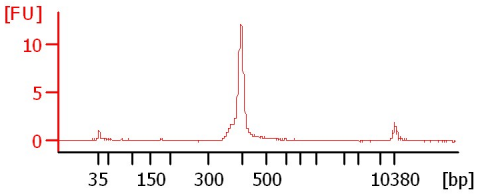
MTT_BRI 02-10-15 (1:2)



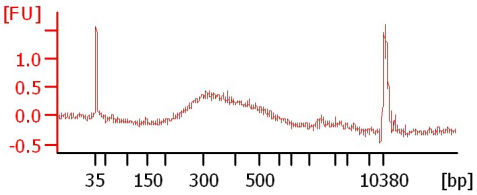
Abcam_07



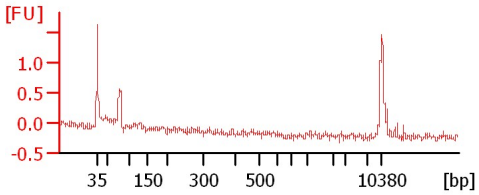
seagrass III



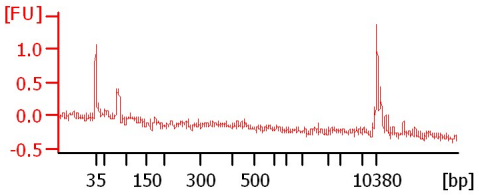
Zovein x7 (1:2)



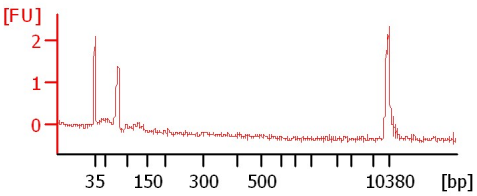
A93



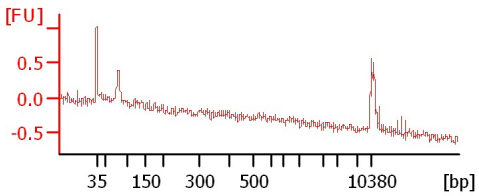
B93



C95



D95



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MTT_BRI 02-10-15 (1:2)		☐	✔			
Abcam_07		☐	✔			
seagrass III		☐	✔			
Zovein x7 (1:2)		☐	✔			
A93		☐	✔			
B93		☐	✔			
C95		☐	✔			
D95		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 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

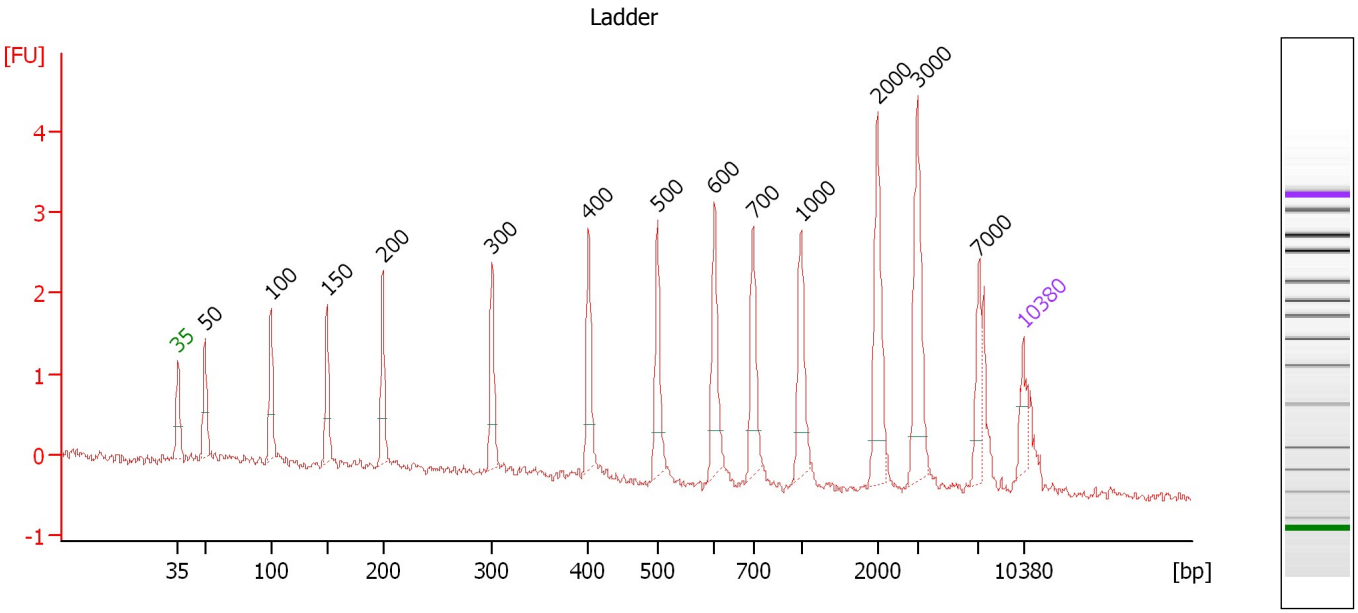
Ladder

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:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

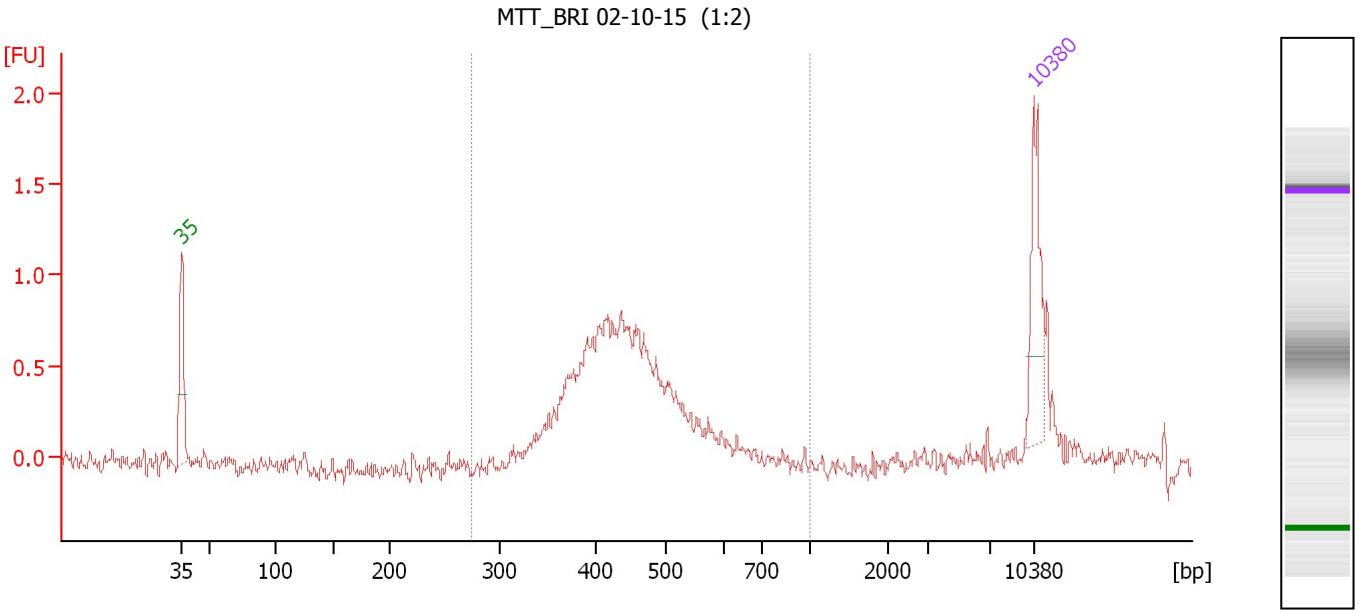
Peak table for Ladder

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	45.30
3		100	150.00	2,272.7	Ladder Peak	50.72
4		150	150.00	1,515.2	Ladder Peak	55.40
5		200	150.00	1,136.4	Ladder Peak	59.99
6		300	150.00	757.6	Ladder Peak	69.04
7		400	150.00	568.2	Ladder Peak	77.03
8		500	150.00	454.5	Ladder Peak	82.72
9		600	150.00	378.8	Ladder Peak	87.45
10		700	150.00	324.7	Ladder Peak	90.62
11		1,000	150.00	227.3	Ladder Peak	94.60
12		2,000	150.00	113.6	Ladder Peak	100.95
13		3,000	150.00	75.8	Ladder Peak	104.22
14		7,000	150.00	32.5	Ladder Peak	109.34
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : MTT_BRI 02-10-15 (1:2)

Height Threshold [FU] : 1

Overall Results for sample 1 : MTT_BRI 02-10-15 (1:2)

Number of peaks found: 0
Noise: 0.1
Corr. Area 1: 9.1

Peak table for sample 1 : MTT_BRI 02-10-15 (1:2)

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	10,380	75.00	10.9	Upper Marker	113.00

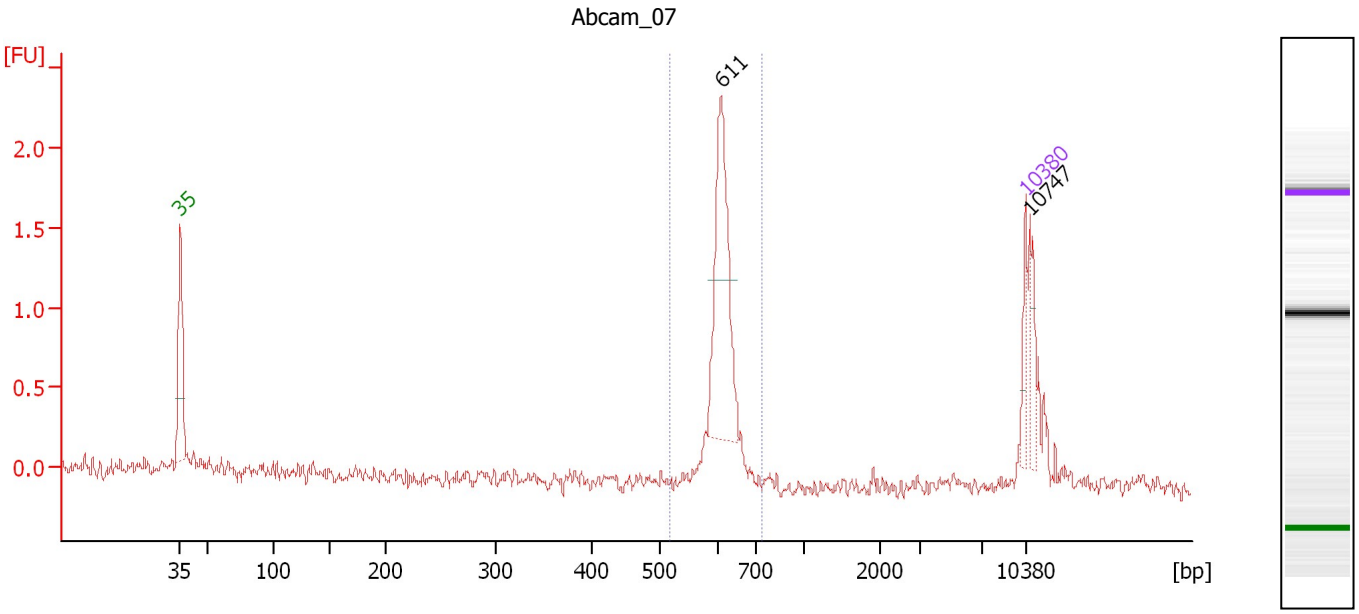
Region table for sample 1 : MTT_BRI 02-10-15 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
276	446	1,000	9.1	90	15.9	646.24	2,256.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : Abcam_07

Height Threshold [FU] : 1

Overall Results for sample 2 : Abcam_07

Number of peaks found: 2
Corr. Area 1: 4.3
Noise: 0.1

Peak table for sample 2 : Abcam_07

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	611	553.93	1,374.5		87.78
3	10,380	75.00	10.9	Upper Marker	113.00
4	10,747	0.00	0.0		113.40

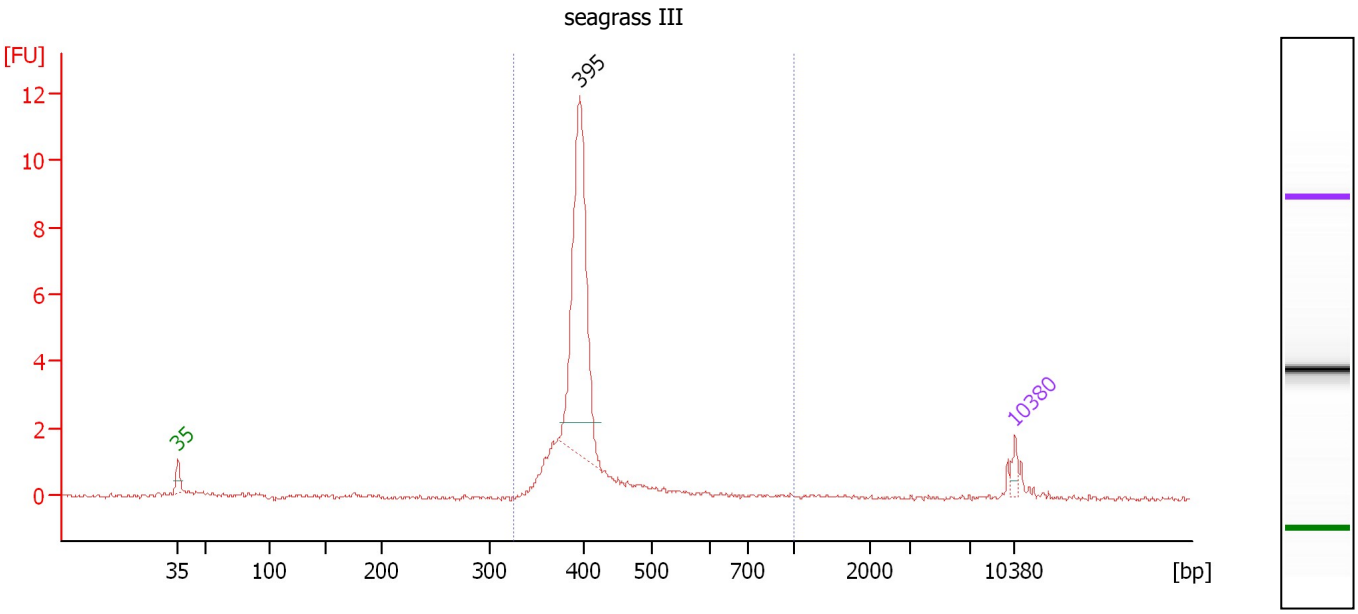
Region table for sample 2 : Abcam_07

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
516	615	745	4.3	69	3.3	728.82	1,797.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : seagrass III

Height Threshold [FU] : 1

Overall Results for sample 3 : seagrass III

Number of peaks found: 1
Noise: 0.1
Corr. Area 1: 34.6

Peak table for sample 3 : seagrass 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	395	2,711.35	10,389.5		76.66
3	10,380	75.00	10.9	Upper Marker	113.00

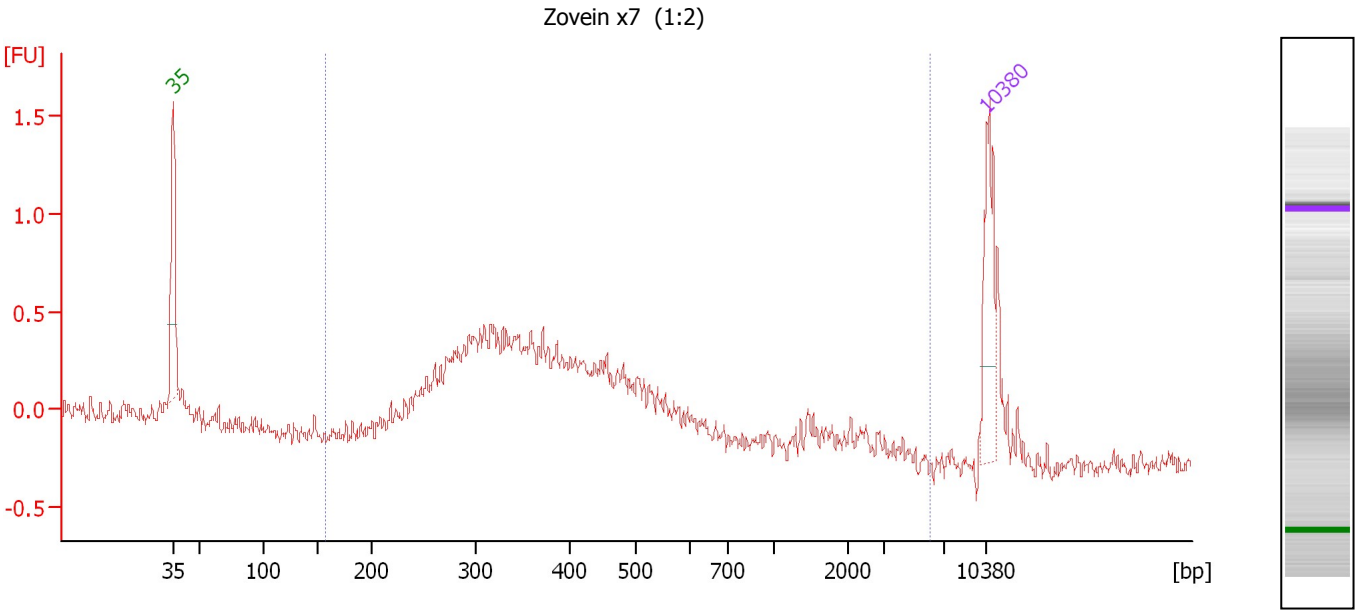
Region table for sample 3 : seagrass III

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
325	409	1,000	34.6	88	15.8	4,691.30	17,706.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Zovein x7 (1:2)

Height Threshold [FU] : 1

Overall Results for sample 4 : Zovein x7 (1:2)

Number of peaks found: 0
Noise: 0.1
Corr. Area 1: 13.6

Peak table for sample 4 : Zovein x7 (1:2)

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	10,380	75.00	10.9	Upper Marker	113.00

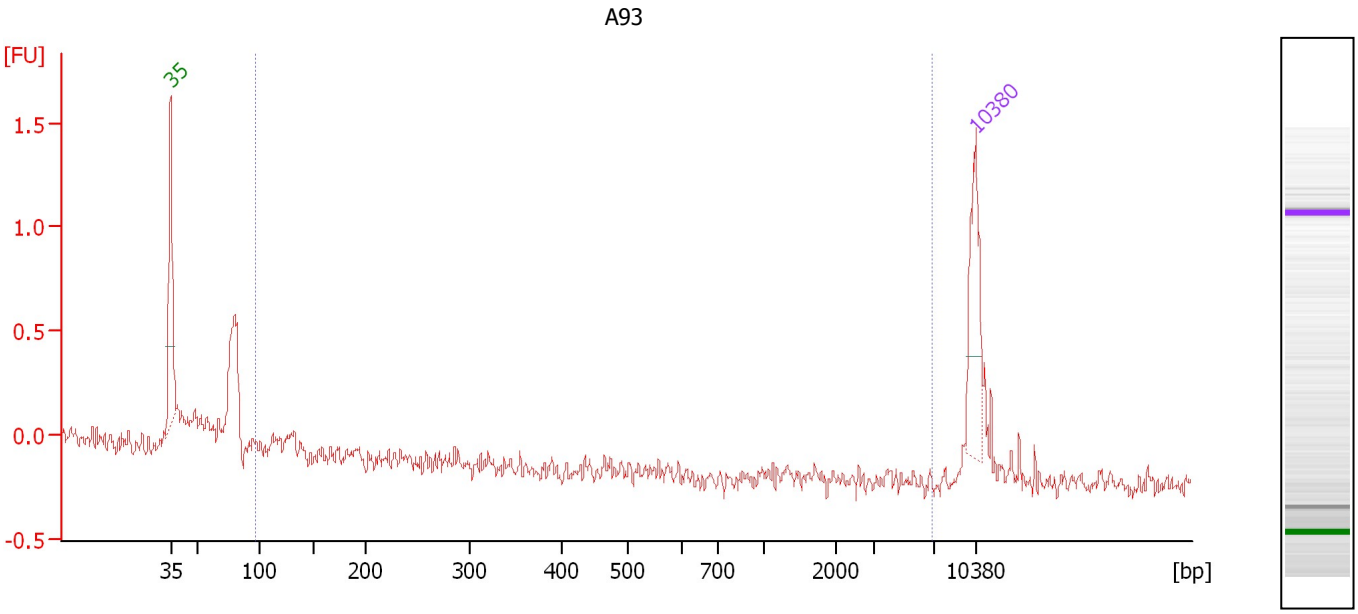
Region table for sample 4 : Zovein x7 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
158	487	5,971	13.6	85	90.7	988.35	4,195.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : A93

Height Threshold [FU] : 1

Overall Results for sample 5 : A93

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

Peak table for sample 5 : A93

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

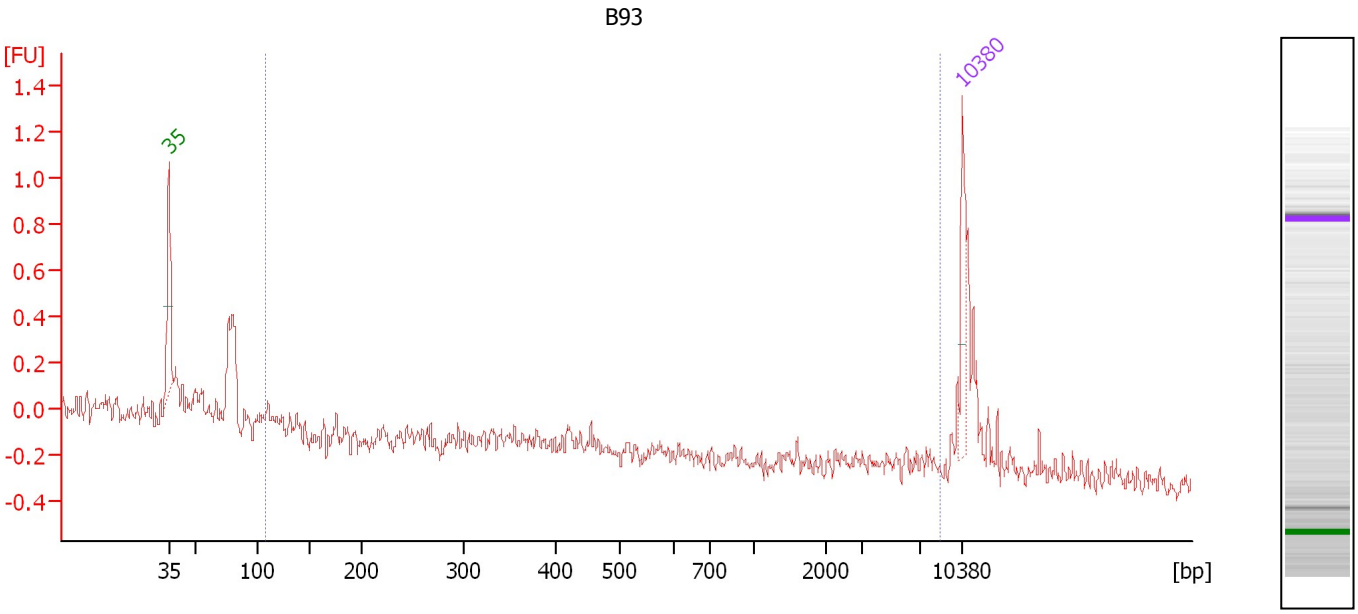
Region table for sample 5 : A93

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
97	1,552	6,876	0.1	3	100.0	7.33	73.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : B93

Height Threshold [FU] : 1

Overall Results for sample 6 : B93

Number of peaks found: 0
Noise: 0.1
Corr. Area 1: 0.7

Peak table for sample 6 : B93

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

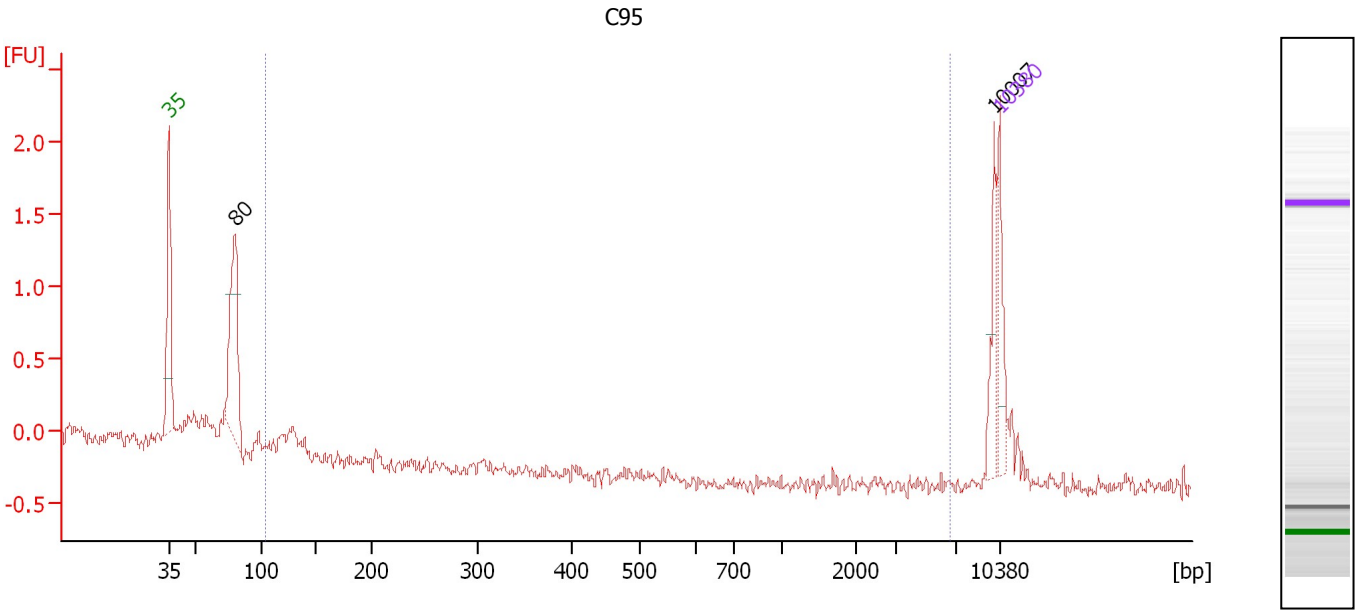
Region table for sample 6 : B93

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
108	1,699	8,630	0.7	16	100.0	141.25	940.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : C95

Height Threshold [FU] : 1

Overall Results for sample 7 : C95

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

Peak table for sample 7 : C95

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	80	323.19	6,136.8		48.53
3	10,007	69.91	10.6		112.60
4	10,380	75.00	10.9	Upper Marker	113.00

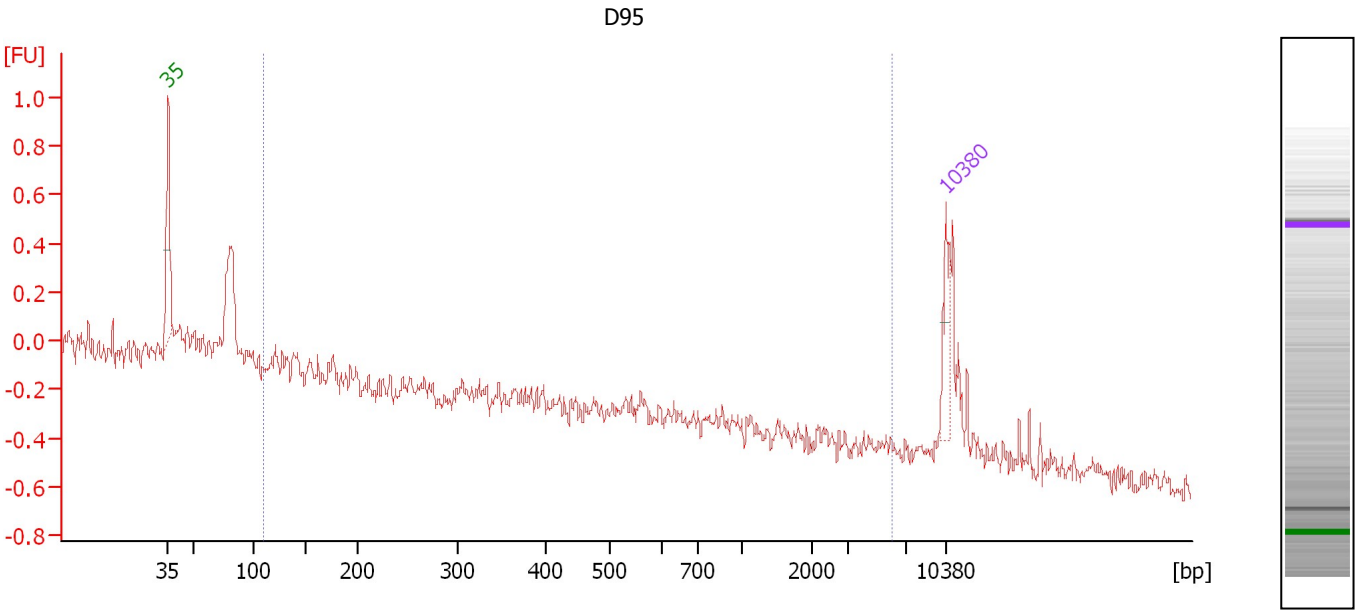
Region table for sample 7 : C95

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
104	127	6,656	0.1	2	3.8	14.61	174.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : D95

Height Threshold [FU] : 0.5

Overall Results for sample 8 : D95

Number of peaks found: 0
Corr. Area 1: 1.5
Noise: 0.1

Peak table for sample 8 : D95

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

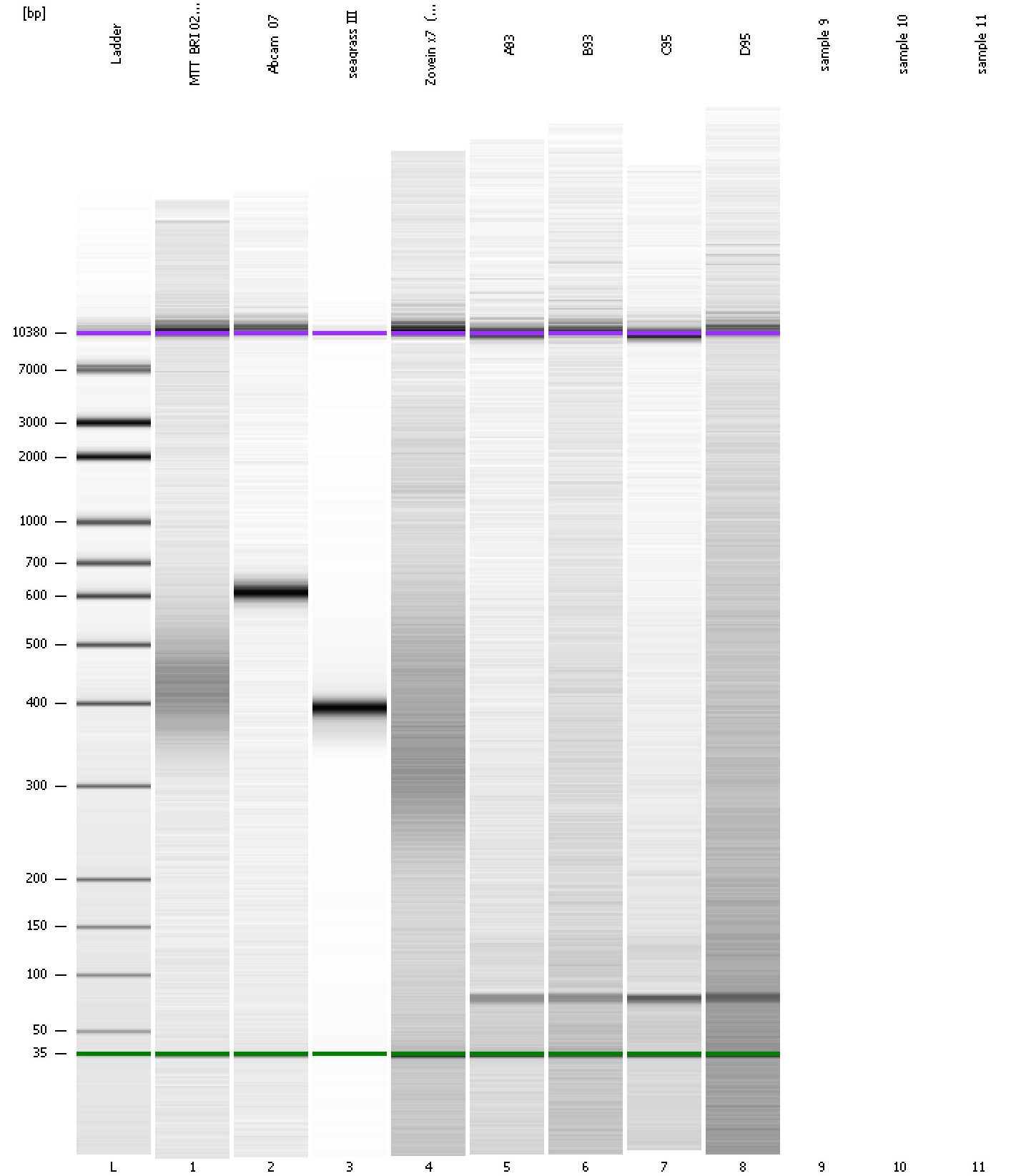
Region table for sample 8 : D95

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
109	834	6,041	1.5	30	100.0	388.56	2,318.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Invalid Samples

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:\...ents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad

Created: 2/11/2015 1:15:57 PM
Modified: 2/11/2015 1:50:37 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		2/11/2015 1:48:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-11\2015-02-11_001.xad)		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/11/2015 1:16:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1