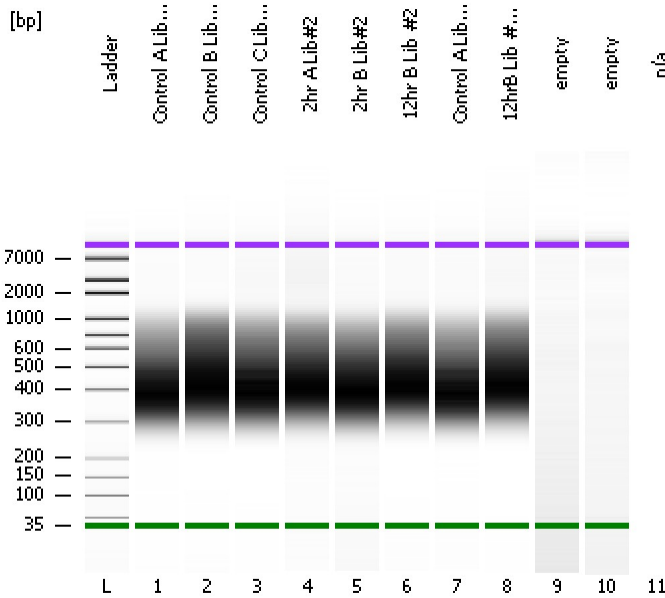


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electrophoresis File Run Summary



Instrument Information:

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

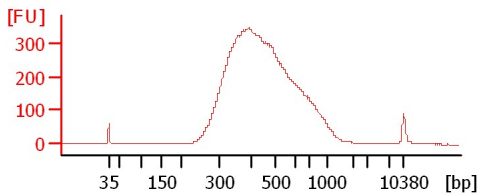
Assay Information:

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

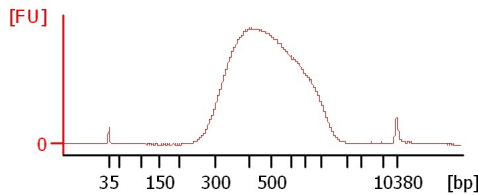
Chip Information:

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

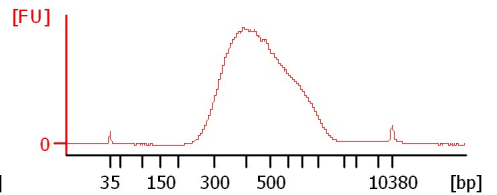
Control A Lib#2



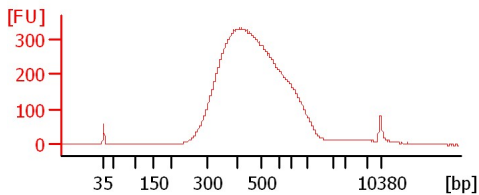
Control B Lib#2



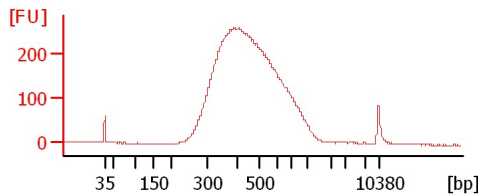
Control C Lib#2



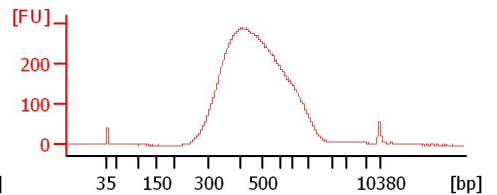
2hr A Lib#2



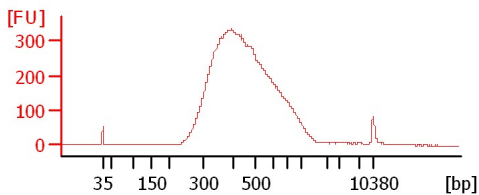
2hr B Lib#2



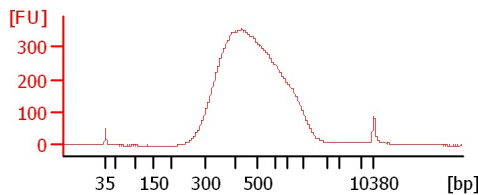
12hr B Lib #2



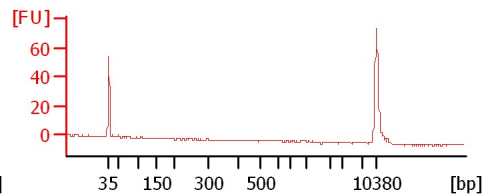
Control A Lib#2 x2



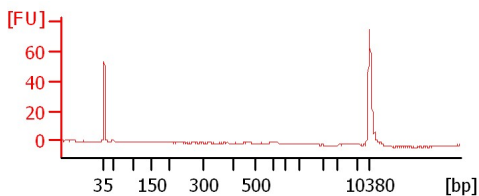
12hrB Lib #2 x2



empty



empty



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
Modified: 3/10/2017 2:56:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Control A Lib#2		<input type="checkbox"/>	✓			
Control B Lib#2		<input type="checkbox"/>	✓			
Control C Lib#2		<input type="checkbox"/>	✓			
2hr A Lib#2		<input type="checkbox"/>	✓			
2hr B Lib#2		<input type="checkbox"/>	✓			
12hr B Lib #2		<input type="checkbox"/>	✓			
Control A Lib#2 x2		<input type="checkbox"/>	✓			
12hrB Lib #2 x2		<input type="checkbox"/>	✓			
empty		<input type="checkbox"/>	✓			
empty		<input type="checkbox"/>	✓			
n/a		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
Modified: 3/10/2017 2:56:08 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

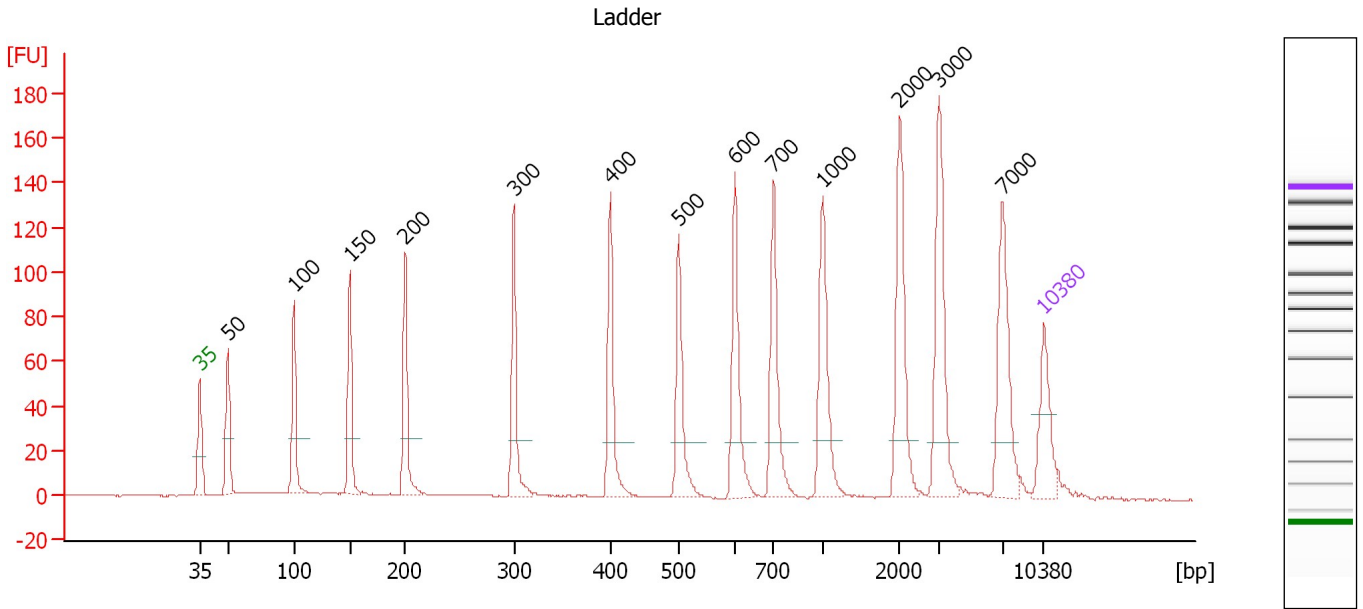
Ladder

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:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

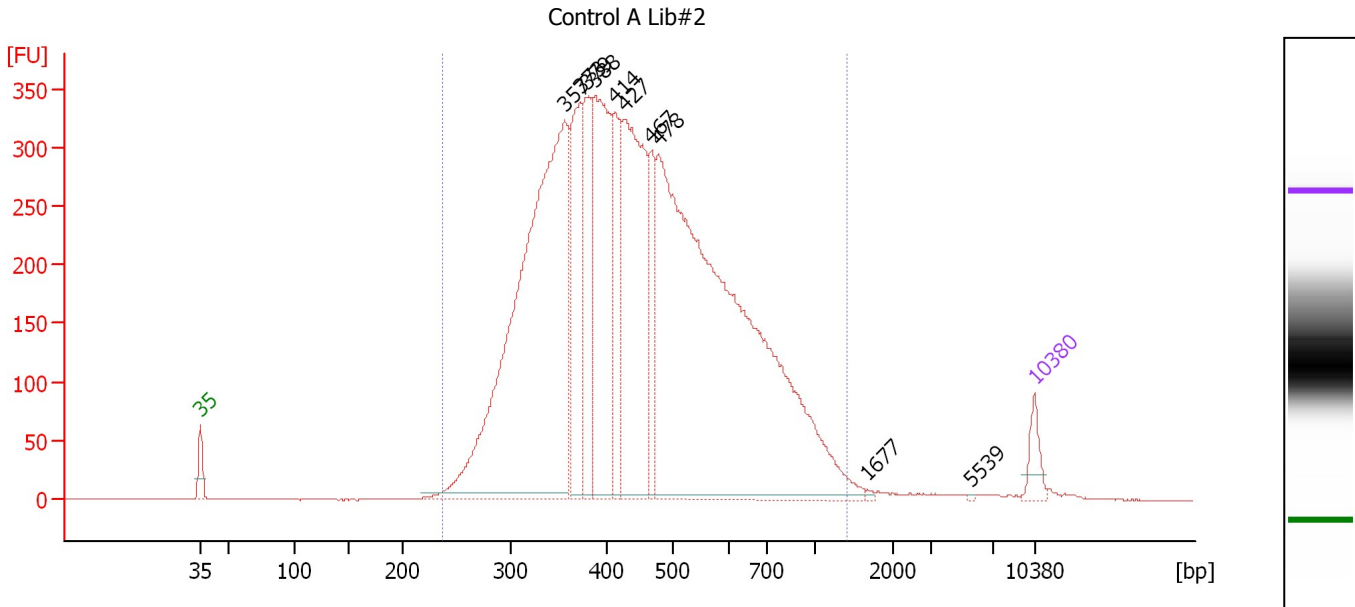
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.43
5	200	150.00	1,136.4	Ladder Peak	60.02
6	300	150.00	757.6	Ladder Peak	69.05
7	400	150.00	568.2	Ladder Peak	77.05
8	500	150.00	454.5	Ladder Peak	82.71
9	600	150.00	378.8	Ladder Peak	87.40
10	700	150.00	324.7	Ladder Peak	90.58
11	1,000	150.00	227.3	Ladder Peak	94.65
12	2,000	150.00	113.6	Ladder Peak	101.06
13	3,000	150.00	75.8	Ladder Peak	104.29
14	7,000	150.00	32.5	Ladder Peak	109.55
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Control A Lib#2

Number of peaks found: 10 Corr. Area 1: 8,372.1
 Noise: 0.2

Peak table for sample 1 : Control A Lib#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	357	3,218.53	13,656.9		73.61
3	373	693.89	2,816.4		74.91
4	379	530.16	2,120.1		75.36
5	388	1,051.67	4,102.7		76.12
6	414	451.41	1,653.5		77.82
7	427	1,270.85	4,508.6		78.58
8	467	298.56	967.8		80.86
9	478	4,190.44	13,291.5		81.45
10	1,677	6.36	5.7		98.99
11	5,539	2.80	0.8		107.63
12	10,380	75.00	10.9	Upper Marker	113.00

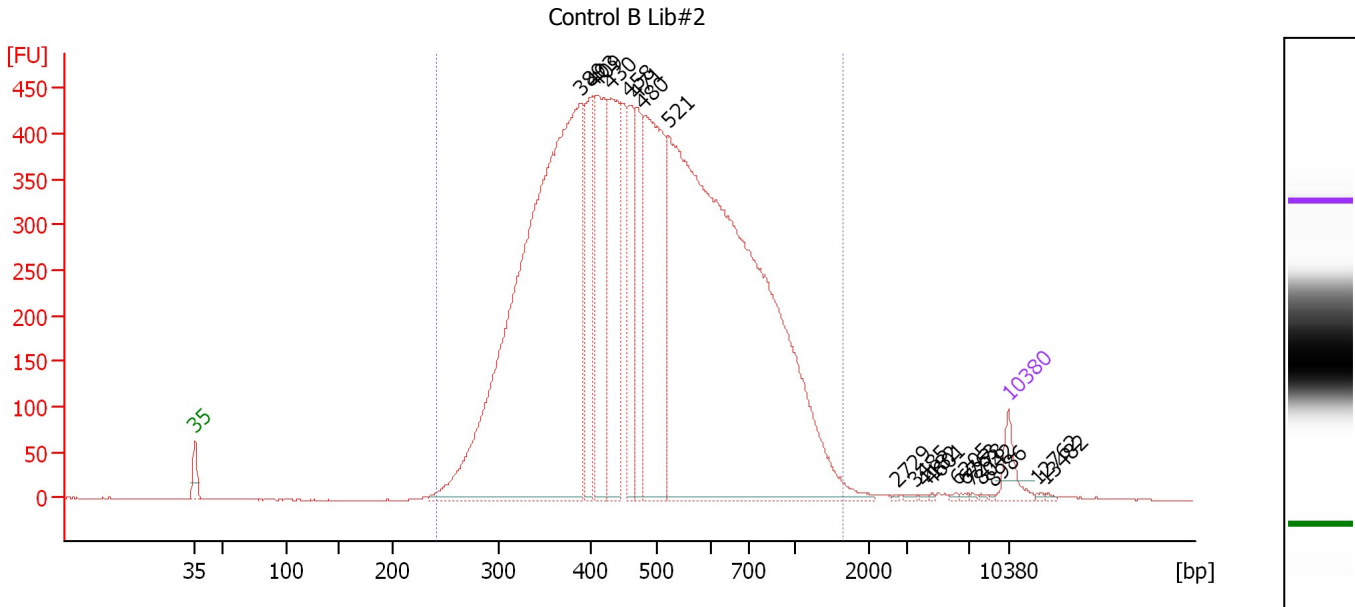
Region table for sample 1 : Control A Lib#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
236	1,399	472	8,372.1	41,718.0	11,476.58	99	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Control B Lib#2

Number of peaks found: 19 Corr. Area 1: 11,956.1
 Noise: 0.5

Peak table for sample 2 : Control B Lib#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	389	3,998.64	15,576.5		76.17
3	403	459.39	1,727.1		77.22
4	409	718.46	2,663.5		77.54
5	430	673.60	2,374.8		78.73
6	458	432.49	1,430.4		80.34
7	471	370.14	1,190.5		81.07
8	480	1,114.58	3,518.2		81.58
9	521	4,632.47	13,475.1		83.69
10	2,729	2.91	1.6		103.41
11	3,485	5.94	2.6		104.93
12	4,182	4.44	1.6		105.84
13	4,601	3.32	1.1		106.39
14	6,205	4.63	1.1		108.50
15	6,763	4.76	1.1		109.24
16	7,278	4.07	0.8		109.83
17	8,042	4.17	0.8		110.61
18	8,986	2.99	0.5		111.58
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,762	0.00	0.0		115.43
21	13,482	0.00	0.0		116.17

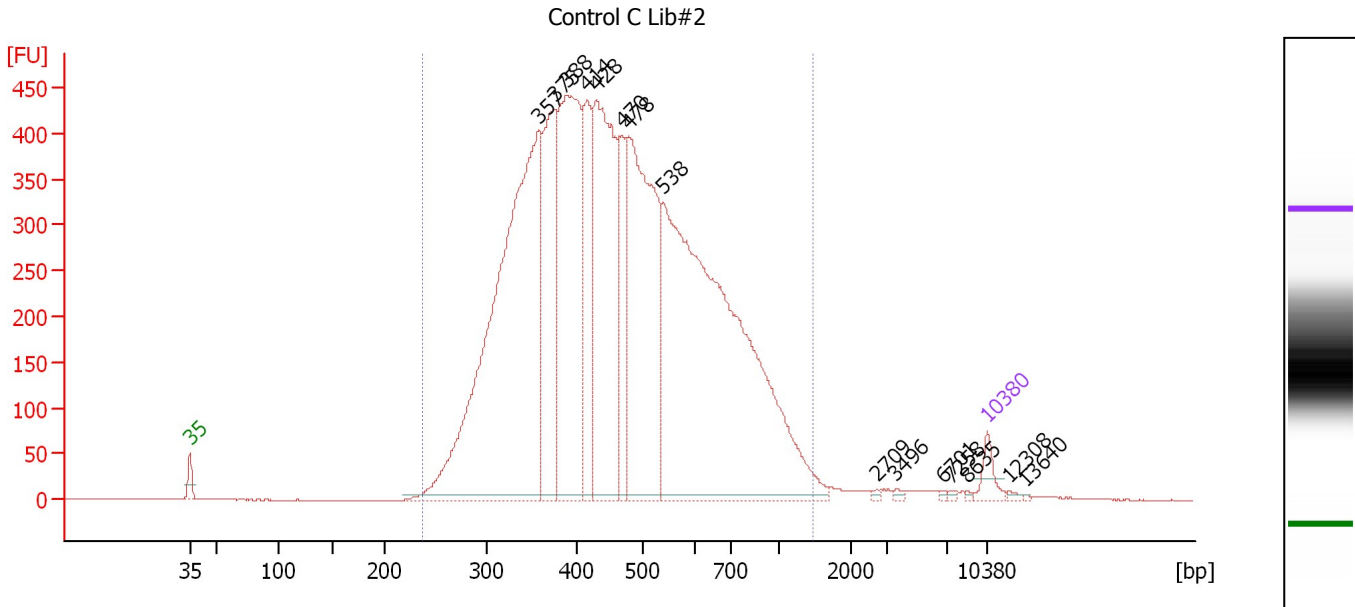
Region table for sample 2 : Control B Lib#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
242	1,630	520	11,956.0	42,814.0	12,624.88	99	38.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Control C Lib#2

Number of peaks found: 15 Corr. Area 1: 11,127.0
 Noise: 0.4

Peak table for sample 3 : Control C Lib#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	357	3,979.19	16,867.5		73.64
3	375	1,097.77	4,435.4		75.05
4	388	1,907.61	7,440.4		76.13
5	414	722.07	2,640.6		77.86
6	428	1,775.07	6,278.2		78.66
7	470	467.87	1,509.0		81.00
8	478	1,986.06	6,294.7		81.47
9	538	4,150.47	11,678.6		84.51
10	2,709	8.59	4.8		103.35
11	3,496	13.22	5.7		104.94
12	6,701	7.66	1.7		109.16
13	7,258	8.00	1.7		109.81
14	8,635	5.45	1.0		111.22
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,308	0.00	0.0		114.97
17	13,640	0.00	0.0		116.33

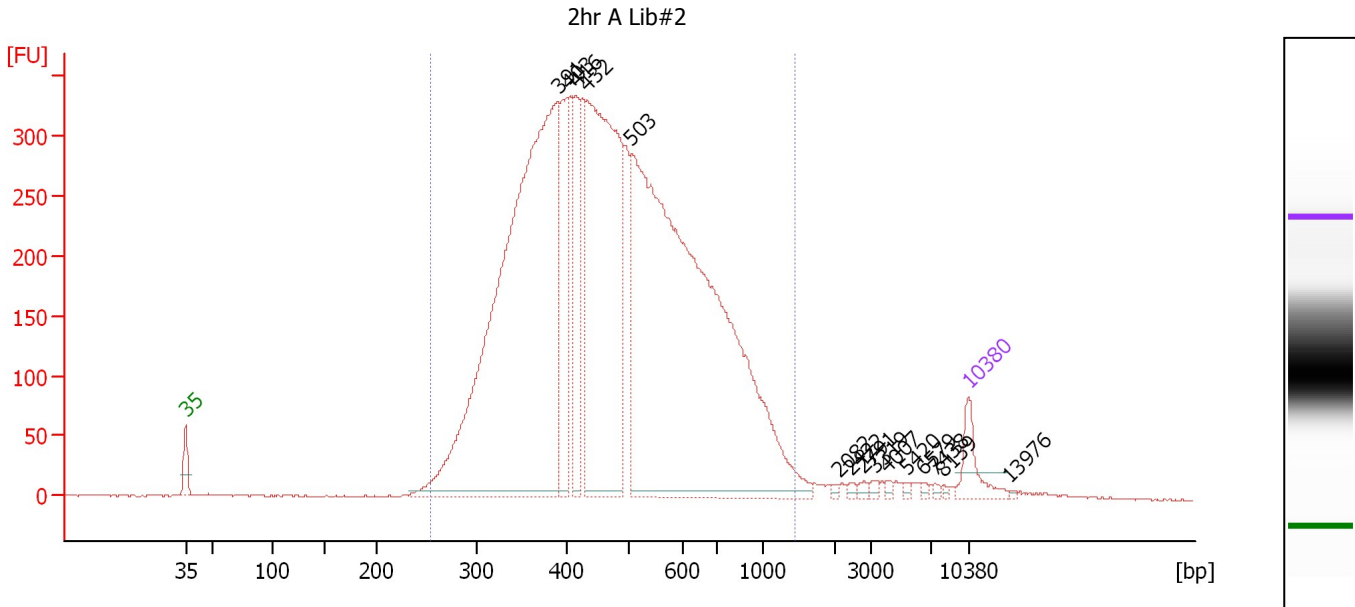
Region table for sample 3 : Control C Lib#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
237	1,489	490	11,127.0	56,377.3	15,900.57	98	37.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2hr A Lib#2

Number of peaks found: 15 Corr. Area 1: 8,159.7
 Noise: 0.5

Peak table for sample 4 : 2hr A Lib#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	391	2,616.48	10,145.7		76.31
3	403	417.37	1,569.5		77.21
4	416	270.21	985.3		77.93
5	432	1,394.56	4,896.5		78.83
6	503	2,979.30	8,979.4		82.84
7	2,082	5.69	4.1		101.33
8	2,422	7.65	4.8		102.42
9	2,791	10.06	5.5		103.61
10	3,319	9.17	4.2		104.71
11	4,007	6.75	2.6		105.61
12	5,420	5.81	1.6		107.47
13	6,579	5.93	1.4		109.00
14	7,438	6.70	1.4		110.00
15	8,139	4.75	0.9		110.71
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,976	0.00	0.0		116.67

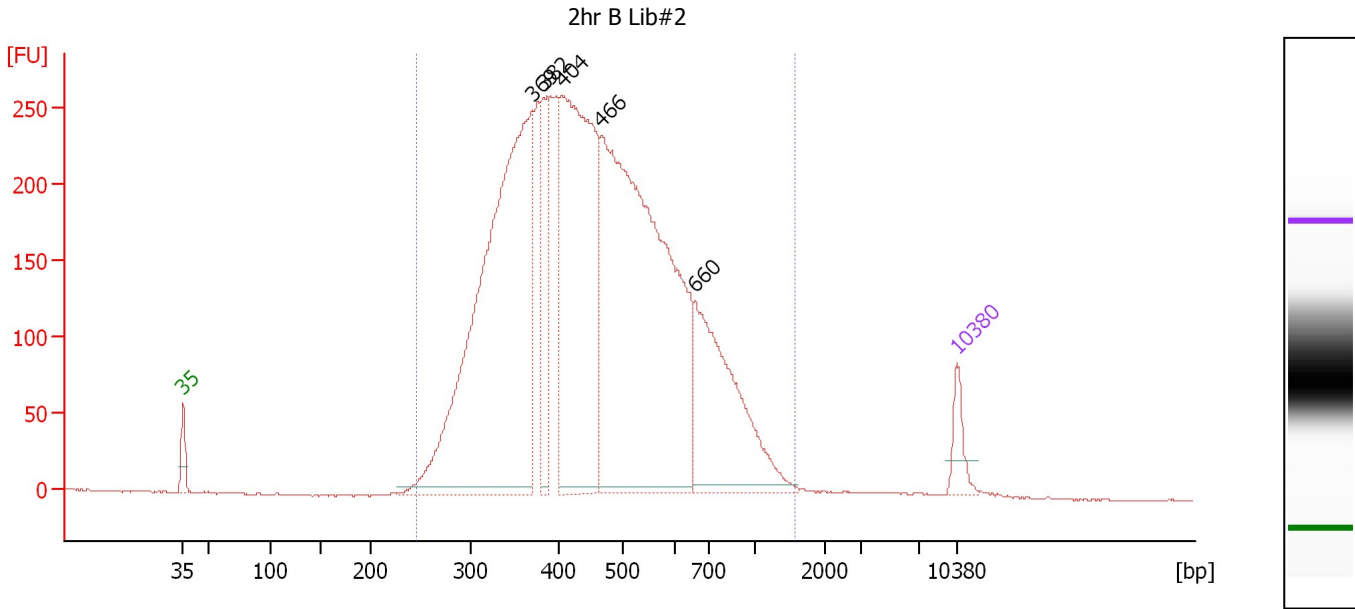
Region table for sample 4 : 2hr A Lib#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
254	1,430	499	8,159.7	27,980.4	8,110.79	97	35.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2hr B Lib#2

Number of peaks found: 5 Corr. Area 1: 6,406.3
 Noise: 0.5

Peak table for sample 5 : 2hr B Lib#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	369	2,507.43	10,285.0		74.60
3	382	383.91	1,522.6		75.61
4	404	1,581.47	5,937.2		77.25
5	466	2,561.01	8,330.3		80.77
6	660	767.48	1,761.4		89.31
7	10,380	75.00	10.9	Upper Marker	113.00

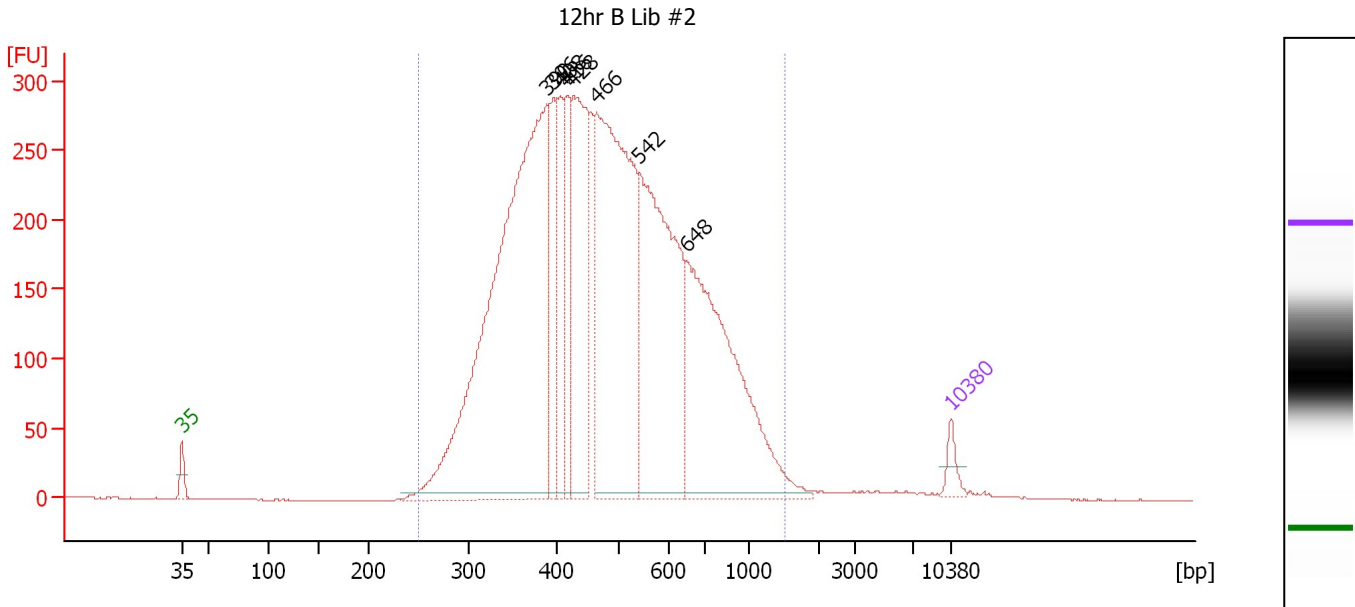
Region table for sample 5 : 2hr B Lib#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
244	1,565	479	6,406.3	30,325.4	8,464.87	99	35.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 12hr B Lib #2

Number of peaks found: 8 Corr. Area 1: 7,026.2
 Noise: 0.3

Peak table for sample 6 : 12hr B Lib #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	390	4,849.59	18,852.4		76.23
3	396	531.50	2,031.4		76.76
4	408	568.60	2,112.6		77.49
5	416	564.64	2,054.7		77.98
6	428	1,338.97	4,736.0		78.65
7	466	2,841.07	9,235.9		80.79
8	542	2,198.04	6,146.5		84.67
9	648	2,110.22	4,930.7		88.94
10	10,380	75.00	10.9	Upper Marker	113.00

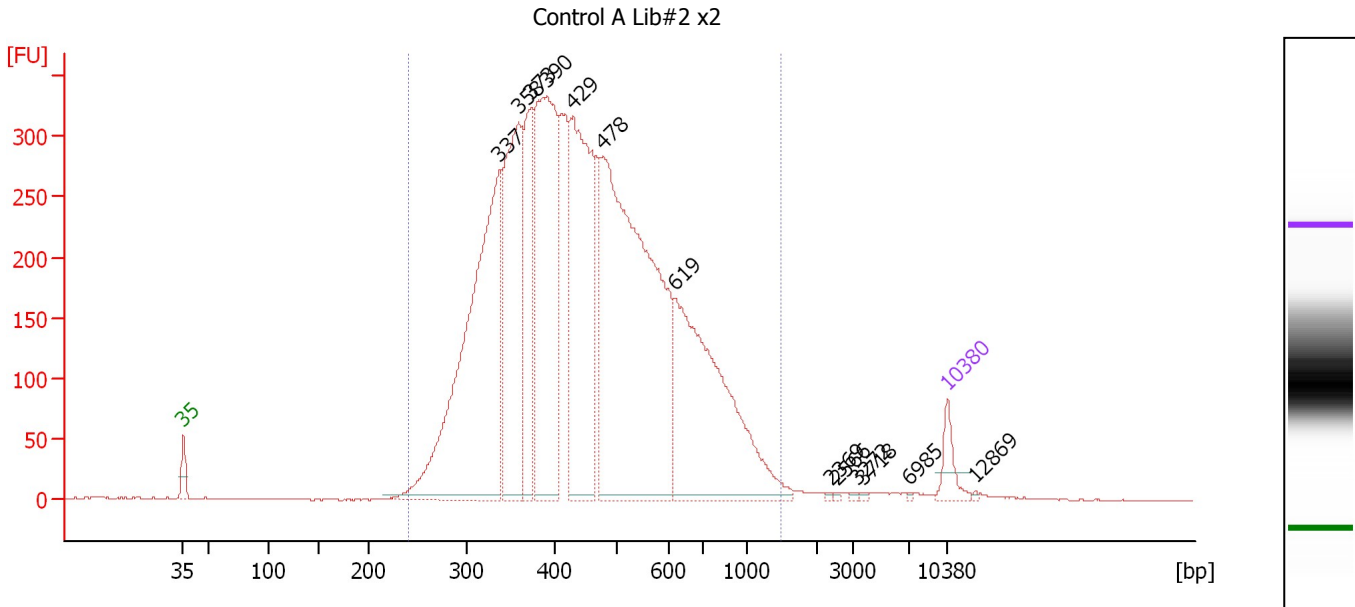
Region table for sample 6 : 12hr B Lib #2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
250	1,513	508	7,026.2	52,352.6	15,391.68	98	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Control A Lib#2 x2

Number of peaks found: 13 Corr. Area 1: 7,876.5
 Noise: 0.4

Peak table for sample 7 : Control A Lib#2 x2

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	337	1,947.34	8,768.1		71.97
3	358	1,047.04	4,425.5		73.73
4	373	530.38	2,153.7		74.90
5	390	1,247.45	4,843.7		76.27
6	429	1,184.53	4,180.5		78.71
7	478	2,389.51	7,579.9		81.44
8	619	1,220.71	2,989.8		87.99
9	2,369	3.58	2.3		102.25
10	2,566	3.87	2.3		102.89
11	3,272	5.64	2.6		104.65
12	3,718	4.93	2.0		105.23
13	6,985	3.84	0.8		109.53
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,869	0.00	0.0		115.54

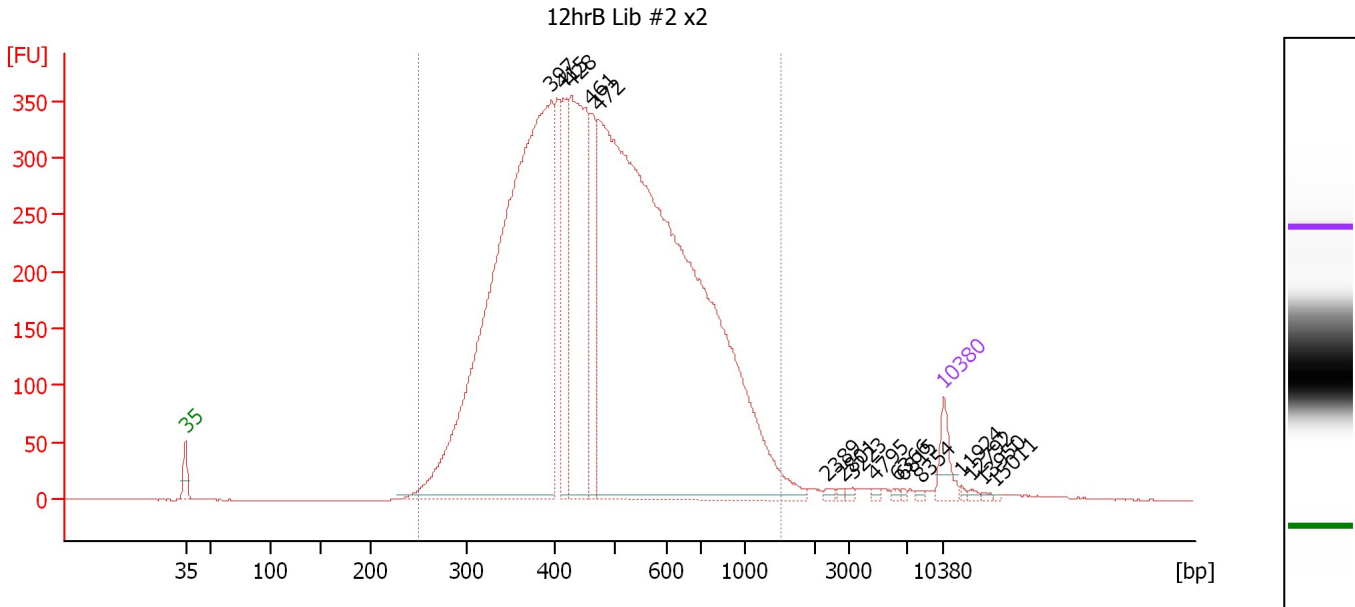
Region table for sample 7 : Control A Lib#2 x2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
241	1,488	474	7,876.5	37,022.3	10,223.72	99	35.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 12hrB Lib #2 x2

Number of peaks found: 16 Corr. Area 1: 8,632.3
 Noise: 0.4

Peak table for sample 8 : 12hrB Lib #2 x2

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	397	3,638.02	13,901.9		76.77
3	415	390.38	1,425.1		77.90
4	428	1,089.96	3,857.6		78.64
5	461	335.35	1,101.8		80.51
6	472	5,250.90	16,839.4		81.15
7	2,389	9.45	6.0		102.32
8	2,801	6.53	3.5		103.65
9	3,223	8.26	3.9		104.58
10	4,795	6.80	2.2		106.65
11	6,366	6.67	1.6		108.72
12	6,815	5.14	1.1		109.31
13	8,354	7.05	1.3		110.93
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,924	0.00	0.0		114.58
16	12,792	0.00	0.0		115.46
17	13,950	0.00	0.0		116.64
18	15,011	0.00	0.0		117.73

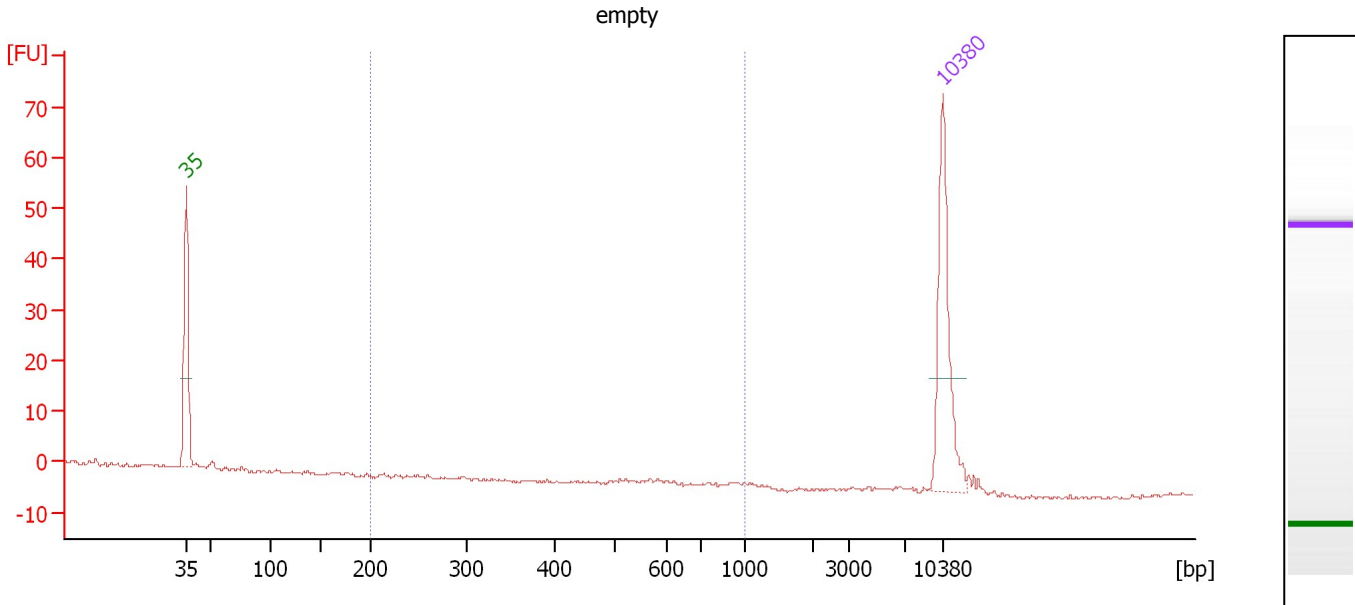
Region table for sample 8 : 12hrB Lib #2 x2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
249	1,524	511	8,632.3	36,416.6	10,722.03	98	36.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : empty

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 9 : empty

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

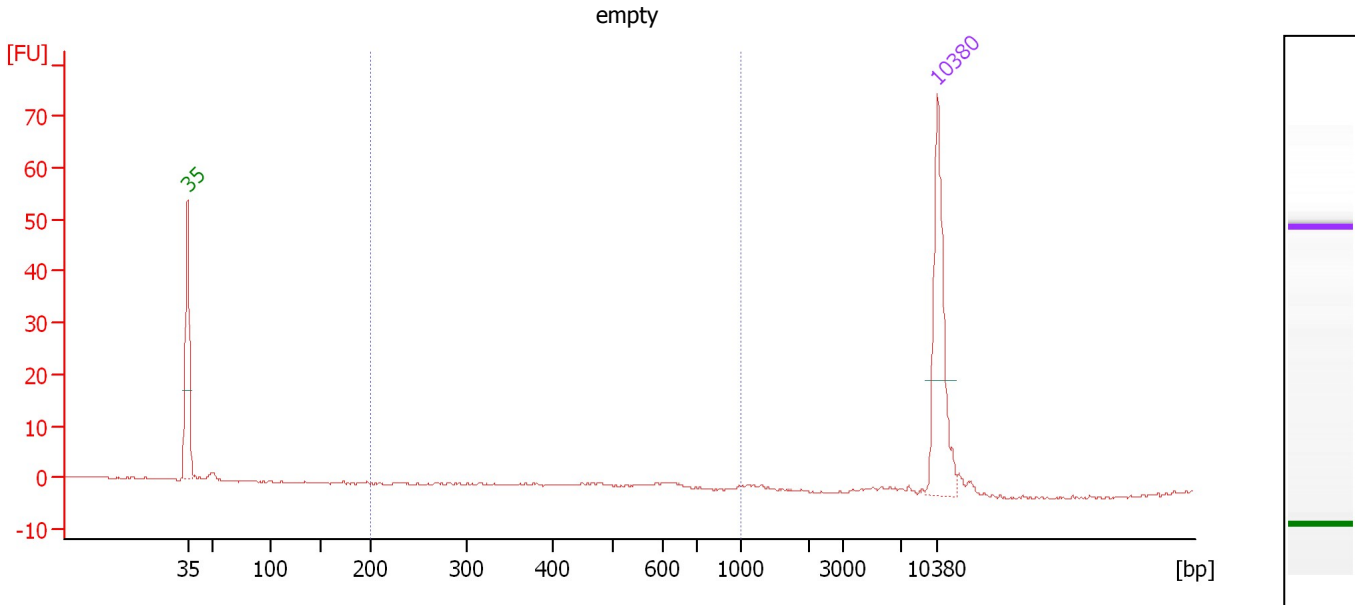
Region table for sample 9 : empty

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	570	0.0	0.0	0.01	0	0.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : empty

Number of peaks found: 0 Corr. Area 1: 1.2
 Noise: 0.2

Peak table for sample 10 : empty

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

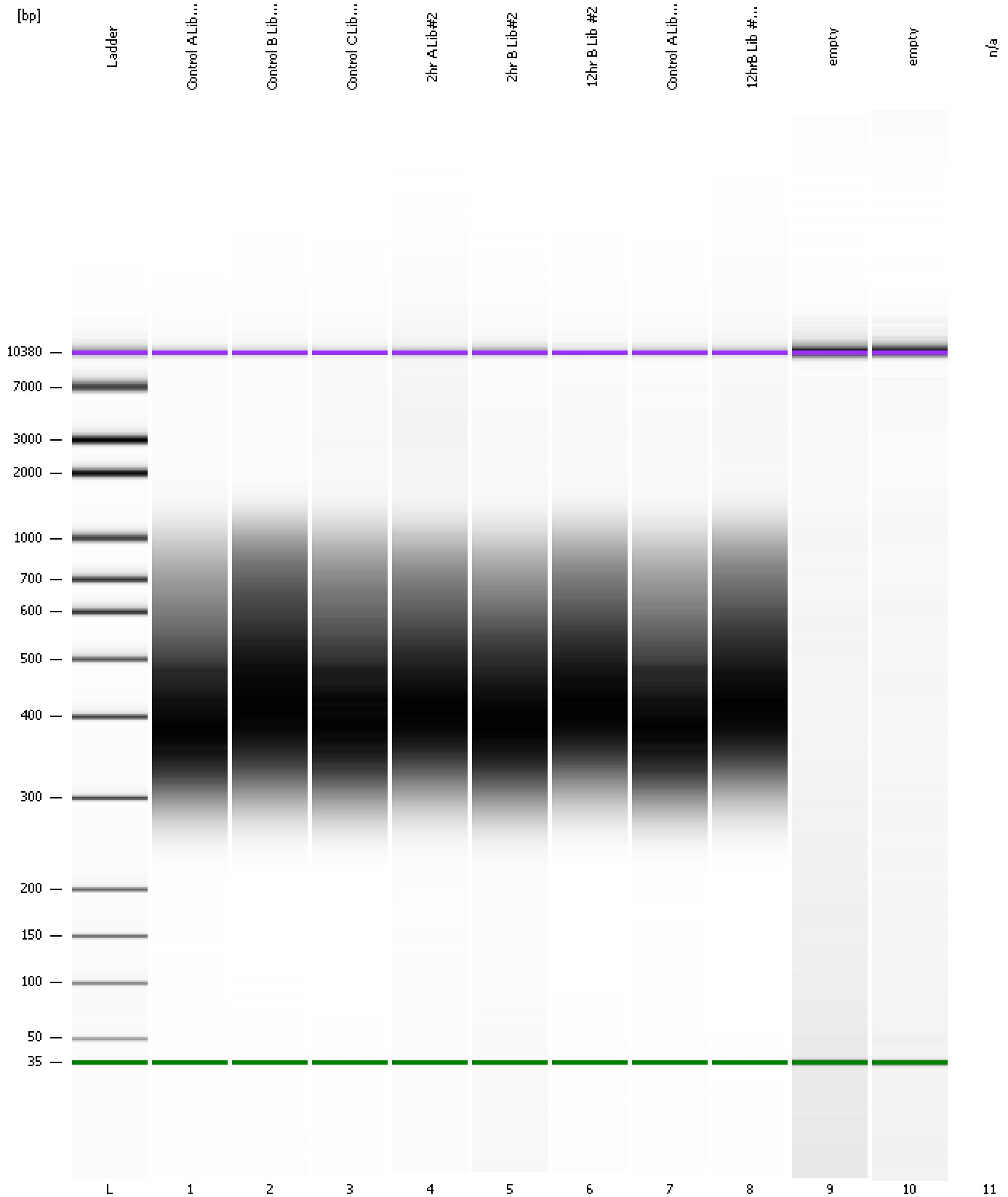
Region table for sample 10 : empty

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	580	1.2	4.4	1.66	14	11.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
Modified: 3/10/2017 2:56:08 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
Modified: 3/10/2017 2:56:08 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...zer\2100 expert\data\2017-03-10\2017-03-10_002AWDNAlib4.xad

Created: 3/10/2017 2:15:15 PM
 Modified: 3/10/2017 2:56:08 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		3/10/2017 2:53:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-10\2017-03-10_002.xad)		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/10/2017 2:15:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1