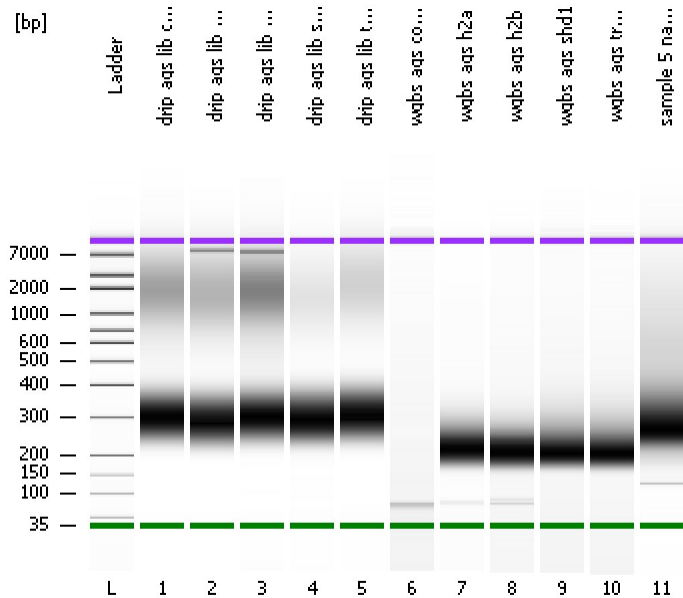


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
Modified: 6/28/2013 12:59:27 PM

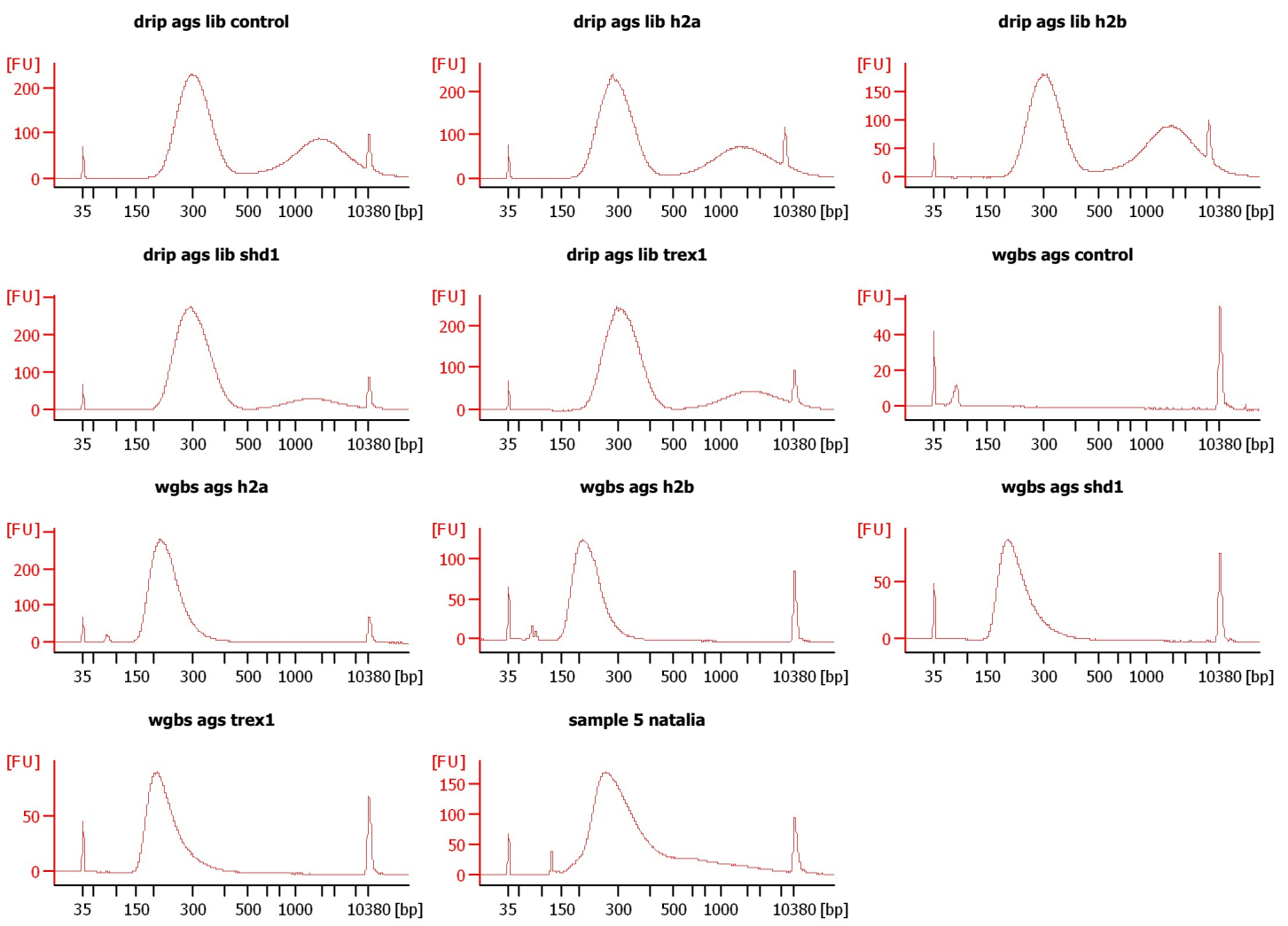
Electrophoresis File Run Summary



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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
drip ags lib control		<input type="checkbox"/>	✓			
drip ags lib h2a		<input type="checkbox"/>	✓			
drip ags lib h2b		<input type="checkbox"/>	✓			
drip ags lib shd1		<input type="checkbox"/>	✓			
drip ags lib trex1		<input type="checkbox"/>	✓			
wgbs ags control		<input type="checkbox"/>	✓			
wgbs ags h2a		<input type="checkbox"/>	✓			
wgbs ags h2b		<input type="checkbox"/>	✓			
wgbs ags shd1		<input type="checkbox"/>	✓			
wgbs ags trex1		<input type="checkbox"/>	✓			
sample 5 natalia		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
Modified: 6/28/2013 12:59:27 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

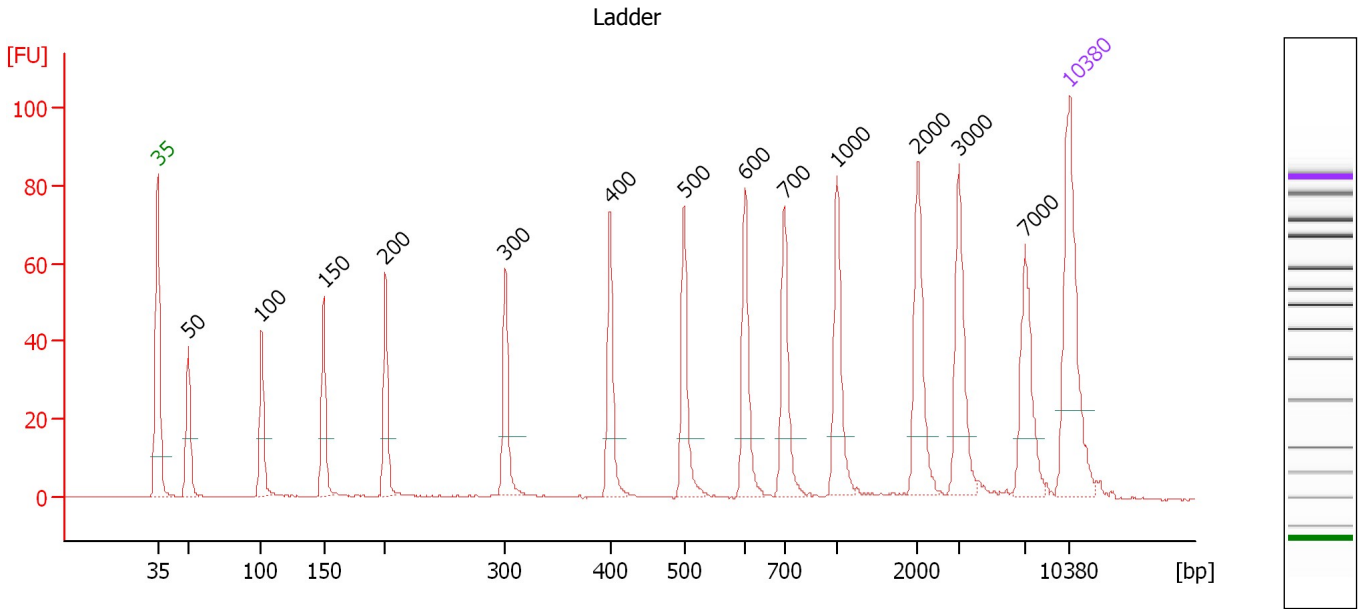
Ladder

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\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

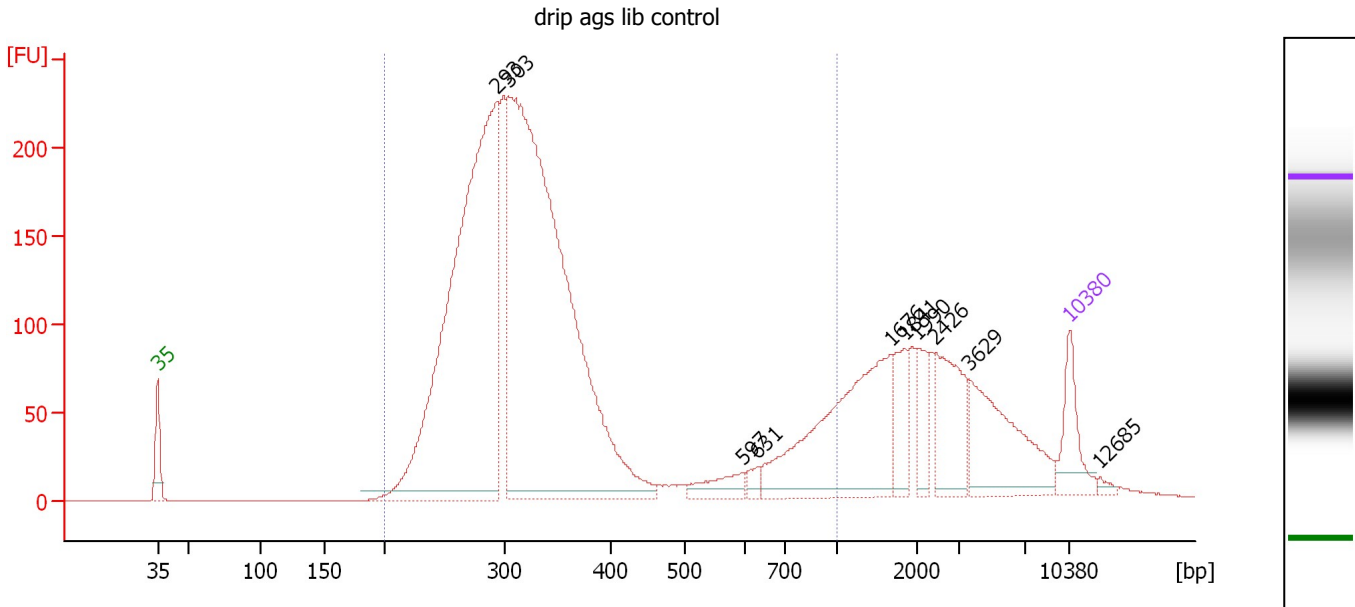
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : drip ags lib control

Number of peaks found: 10 Corr. Area 1: 3,603.1
 Noise: 0.2

Peak table for sample 1 : drip ags lib control

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	1,540.43	7,963.0	
3	303	1,933.80	9,685.8	
4	597	50.61	128.4	
5	631	18.27	43.9	
6	1,676	378.35	342.0	
7	1,841	69.35	57.1	
8	1,990	56.72	43.2	
9	2,426	138.19	86.3	
10	3,629	195.77	81.7	
11	10,380	75.00	10.9	Upper Marker
12	12,685	0.00	0.0	

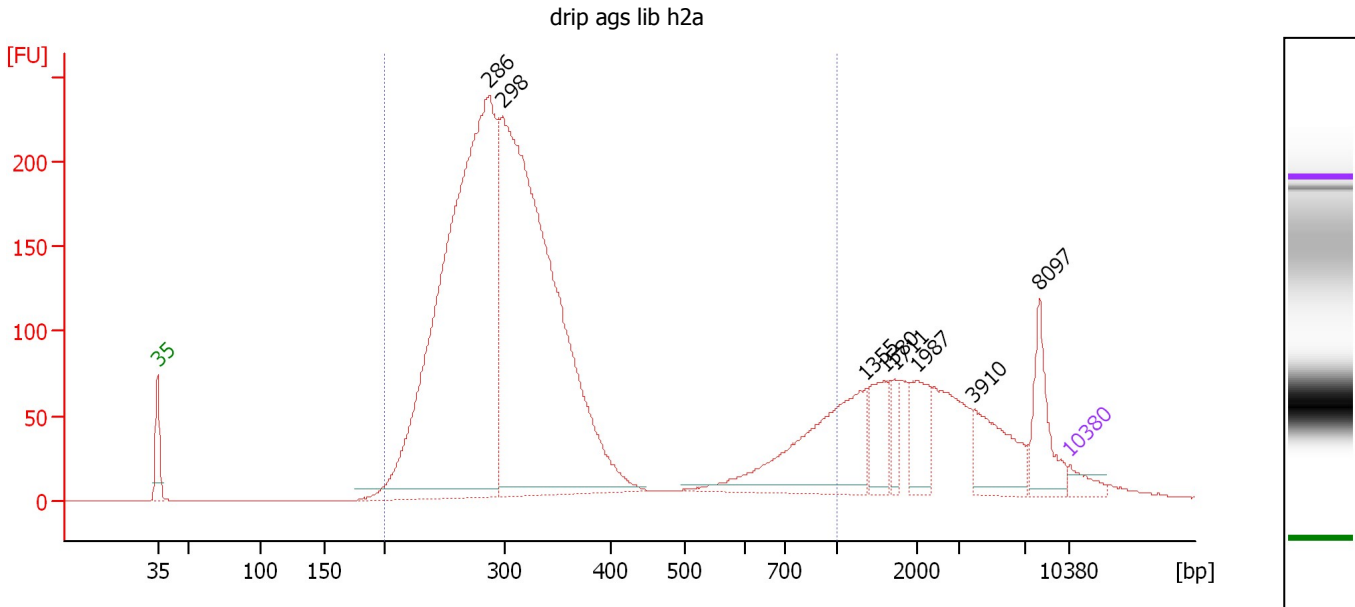
Region table for sample 1 : drip ags lib control

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	359	18,775.5	3,902.28	3,603.1	77	42.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : drip ags lib h2a

Number of peaks found: 8 Corr. Area 1: 3,772.0
 Noise: 0.1

Peak table for sample 2 : drip ags lib h2a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	6,139.42	32,483.3	
3	298	5,732.99	29,184.3	
4	1,355	940.85	1,052.0	
5	1,580	274.89	263.6	
6	1,711	97.14	86.0	
7	1,987	250.44	191.0	
8	3,910	373.14	144.6	
9	8,097	315.37	59.0	
10	10,380	75.00	10.9	Upper Marker

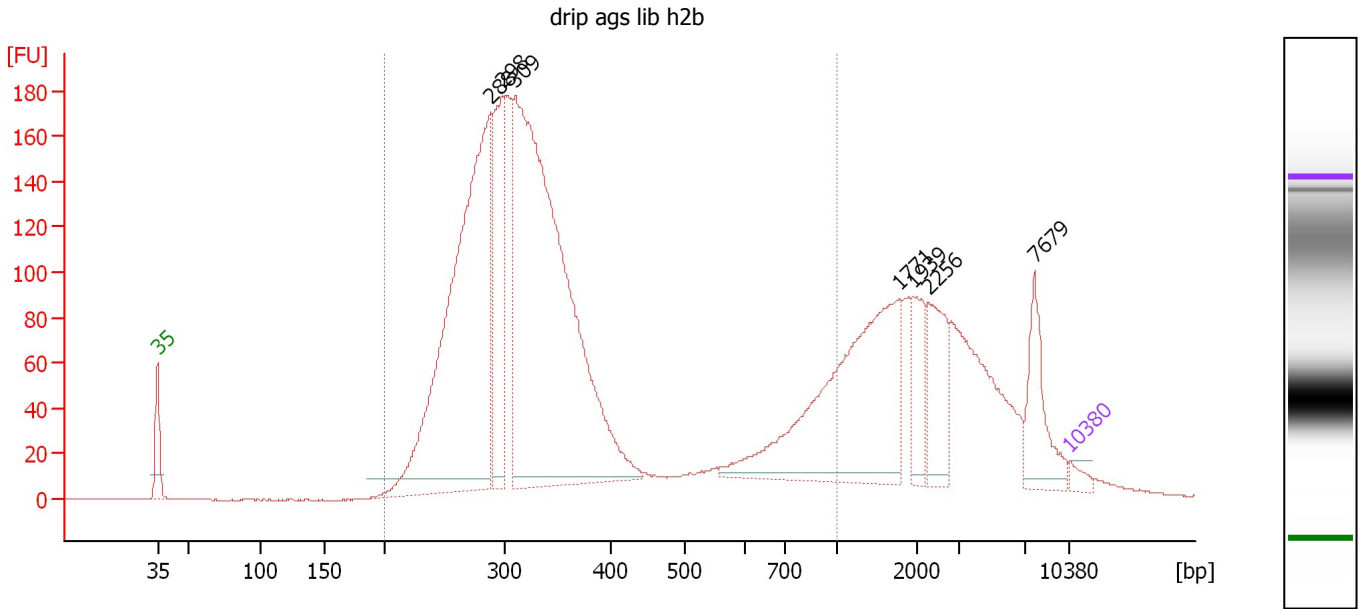
Region table for sample 2 : drip ags lib h2a

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	350	64,552.8	12,965.08	3,772.0	78	45.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : drip ags lib h2b

Number of peaks found: 7 Corr. Area 1: 2,971.2
 Noise: 0.2

Peak table for sample 3 : drip ags lib h2b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	288	6,568.29	34,557.9	
3	298	1,616.60	8,210.4	
4	309	8,485.51	41,559.9	
5	1,771	2,702.33	2,311.7	
6	1,939	478.26	373.7	
7	2,256	664.74	446.4	
8	7,679	625.13	123.4	
9	10,380	75.00	10.9	Upper Marker

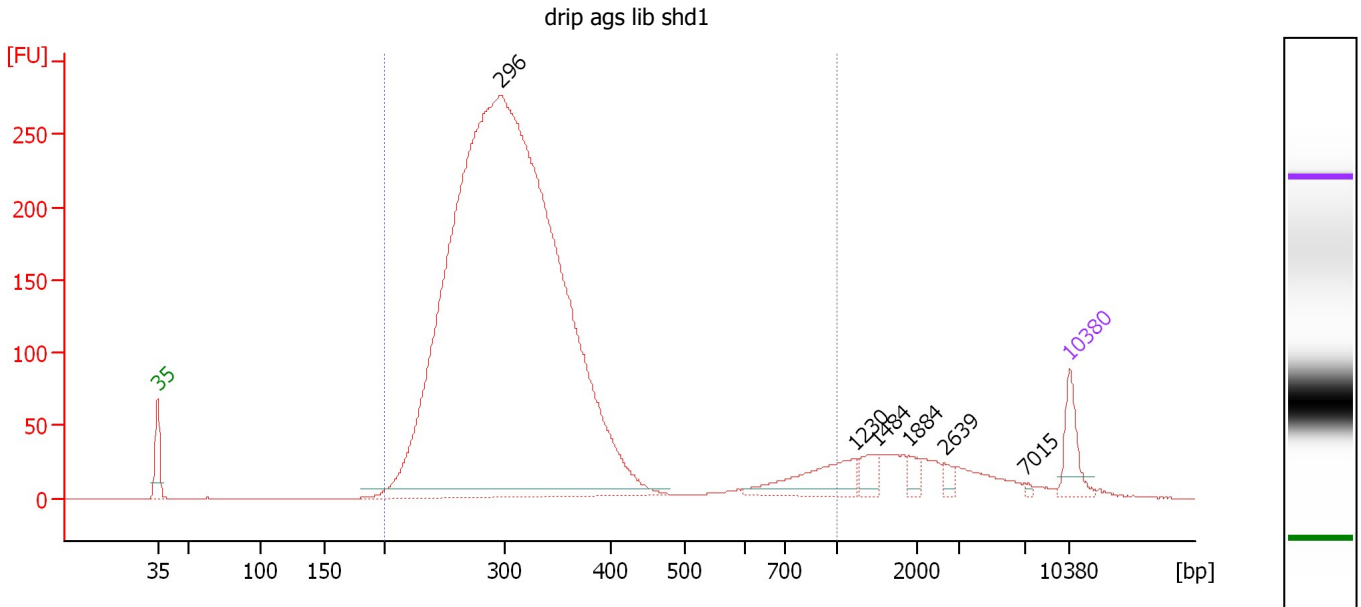
Region table for sample 3 : drip ags lib h2b

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	376	98,940.9	20,960.47	2,971.2	71	45.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : drip ags lib shd1

Number of peaks found: 6 Corr. Area 1: 4,203.6
 Noise: 0.2

Peak table for sample 4 : drip ags lib shd1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	296	5,704.23	29,214.7	
3	1,230	136.03	167.5	
4	1,484	45.24	46.2	
5	1,884	27.81	22.4	
6	2,639	19.48	11.2	
7	7,015	4.94	1.1	
8	10,380	75.00	10.9	Upper Marker

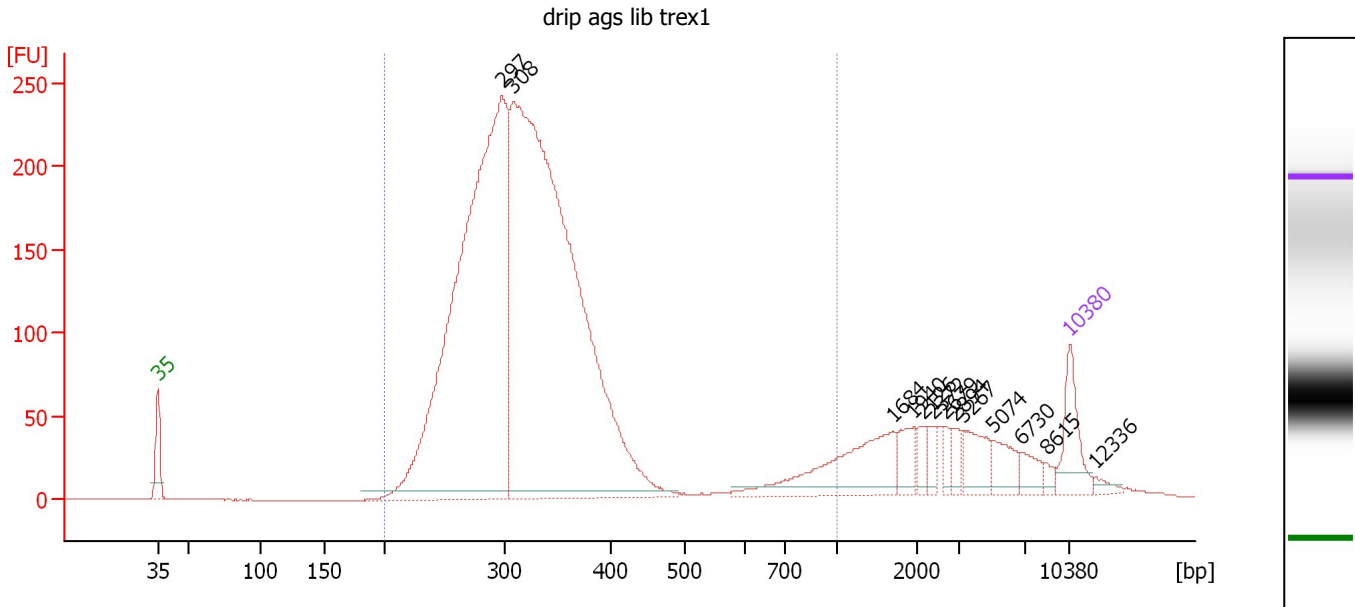
Region table for sample 4 : drip ags lib shd1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	326	29,295.0	5,843.68	4,203.6	91	33.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : drip ags lib trex1

Number of peaks found: 13 Corr. Area 1: 3,678.9
 Noise: 0.1

Peak table for sample 5 : drip ags lib trex1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	1,875.35	9,558.2	
3	308	2,358.03	11,613.8	
4	1,684	189.88	170.8	
5	1,940	42.77	33.4	
6	2,126	24.85	17.7	
7	2,372	24.75	15.8	
8	2,679	19.59	11.1	
9	2,894	21.89	11.5	
10	3,267	60.90	28.2	
11	5,074	46.70	13.9	
12	6,730	31.50	7.1	
13	8,615	11.36	2.0	
14	10,380	75.00	10.9	Upper Marker
15	12,336	0.00	0.0	

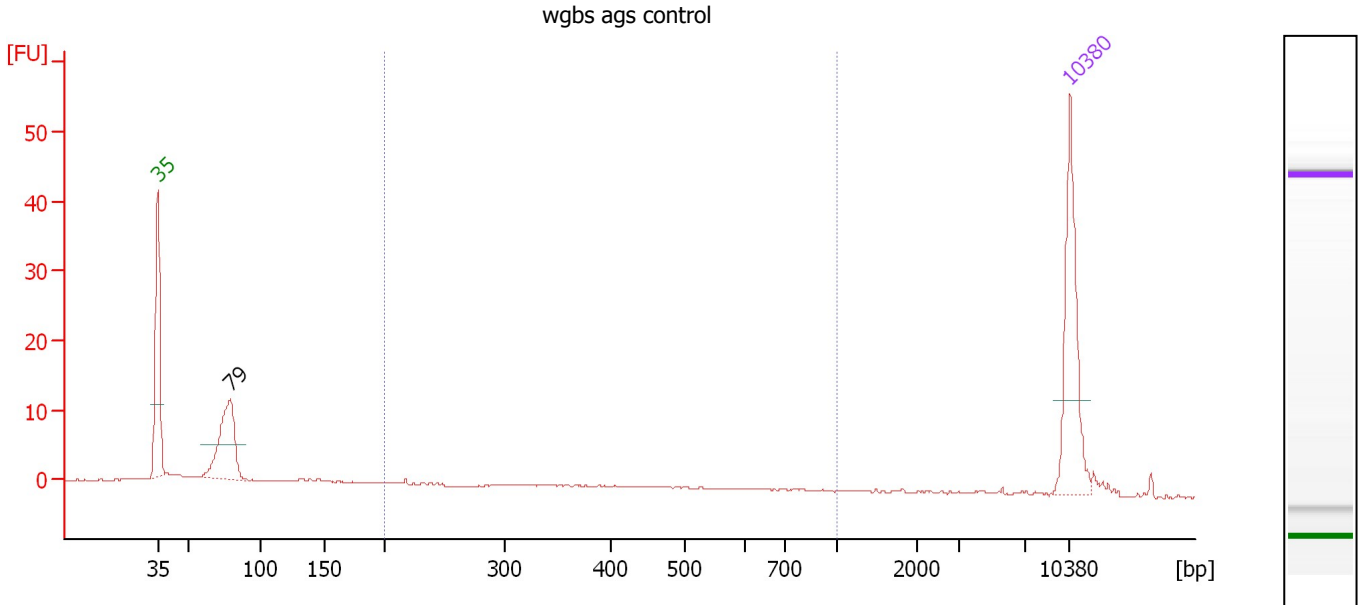
Region table for sample 5 : drip ags lib trex1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	337	20,840.5	4,302.75	3,678.9	85	32.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : wgbs ags control

Number of peaks found: 1 Corr. Area 1: 1.6
 Noise: 0.1

Peak table for sample 6 : wgbs ags control

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	104.55	2,012.2	
3	10,380	75.00	10.9	Upper Marker

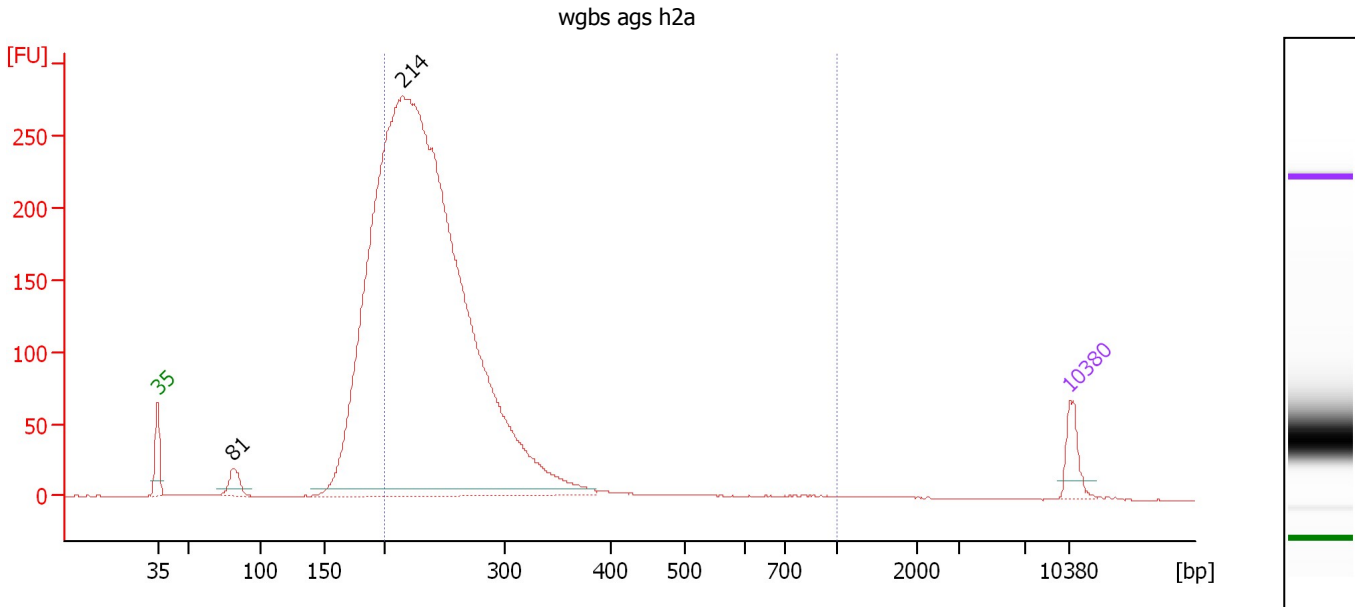
Region table for sample 6 : wgbs ags control

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	274	24.6	4.08	1.6	3	26.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : wgbs ags h2a

Number of peaks found: 2 Corr. Area 1: 2,997.1
 Noise: 0.1

Peak table for sample 7 : wgbs ags h2a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	94.62	1,772.9	
3	214	7,544.56	53,365.8	
4	10,380	75.00	10.9	Upper Marker

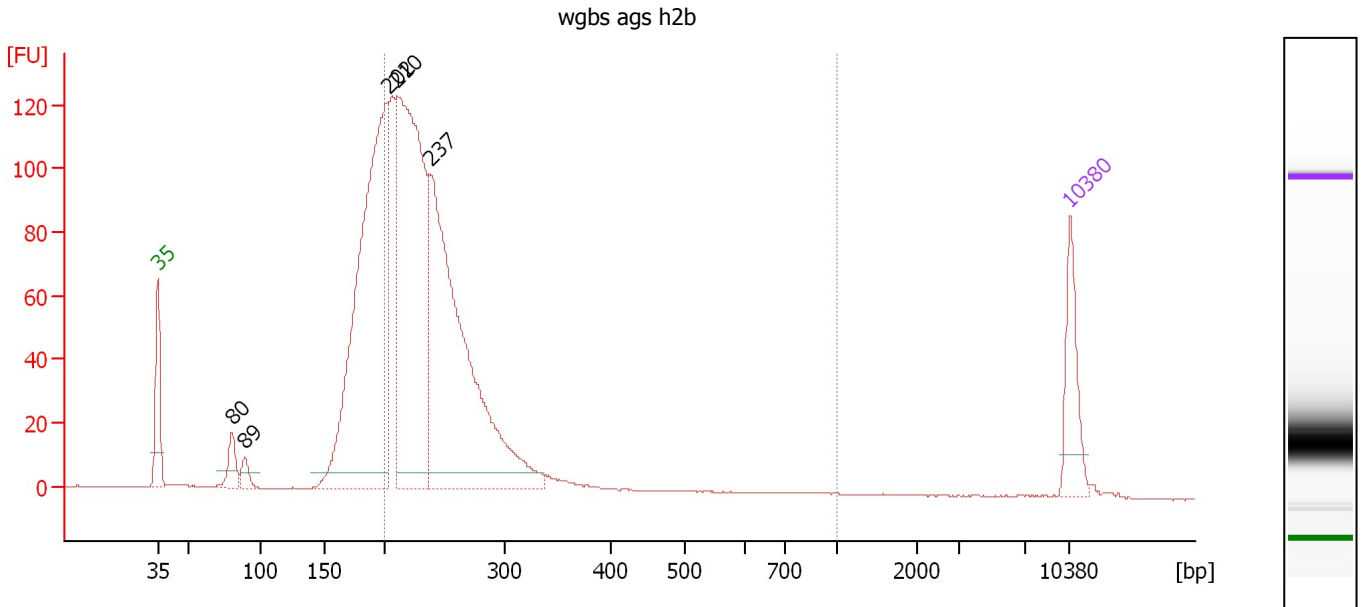
Region table for sample 7 : wgbs ags h2a

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	253	35,438.0	5,710.97	2,997.1	77	25.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : wgbs ags h2b

Number of peaks found: 5 Corr. Area 1: 1,159.6
 Noise: 0.1

Peak table for sample 8 : wgbs ags h2b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	48.63	921.9	
3	89	26.90	460.3	
4	202	912.91	6,853.2	
5	210	805.65	5,820.7	
6	237	825.08	5,273.8	
7	10,380	75.00	10.9	Upper Marker

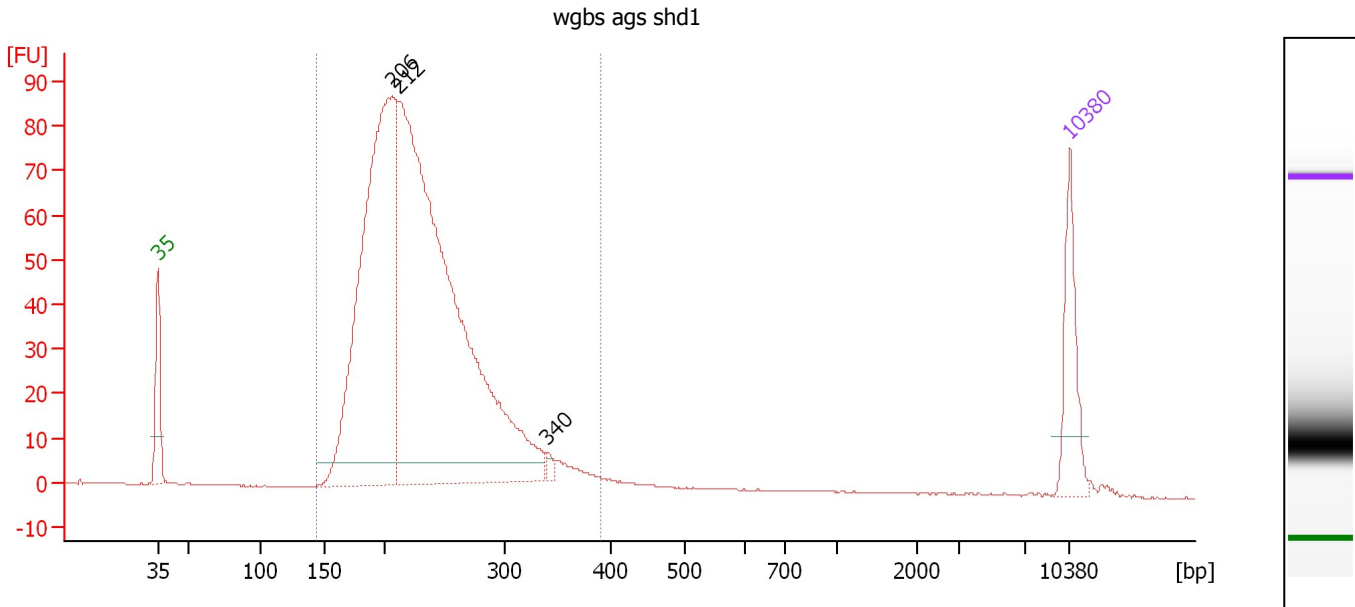
Region table for sample 8 : wgbs ags h2b

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	245	12,274.4	1,937.15	1,159.6	68	22.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : wgbs ags shd1

Number of peaks found: 3 Corr. Area 1: 1,172.7
 Noise: 0.1

Peak table for sample 9 : wgbs ags shd1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	206	882.10	6,491.0	
3	212	1,342.87	9,612.0	
4	340	8.24	36.8	
5	10,380	75.00	10.9	Upper Marker

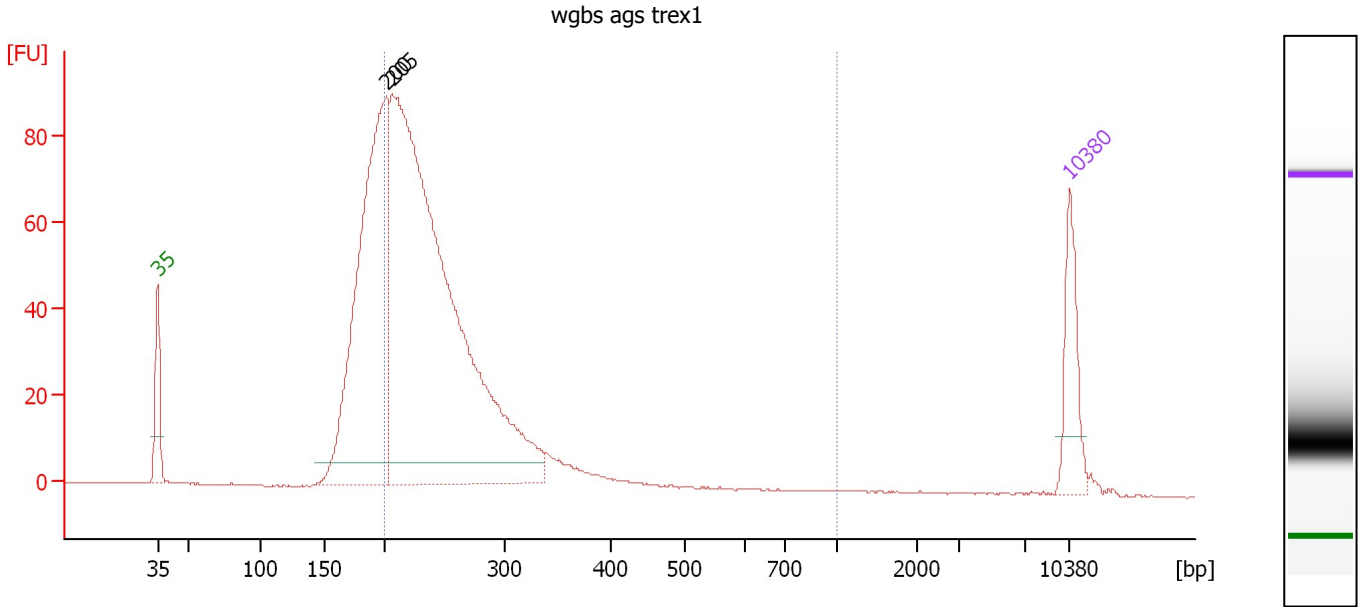
Region table for sample 9 : wgbs ags shd1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
144	392	231	15,282.4	2,242.25	1,172.7	97	19.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : wgbs ags trex1

Number of peaks found: 2 Corr. Area 1: 865.6
 Noise: 0.1

Peak table for sample 10 : wgbs ags trex1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	200	780.70	5,910.7	
3	205	1,571.04	11,589.4	
4	10,380	75.00	10.9	Upper Marker

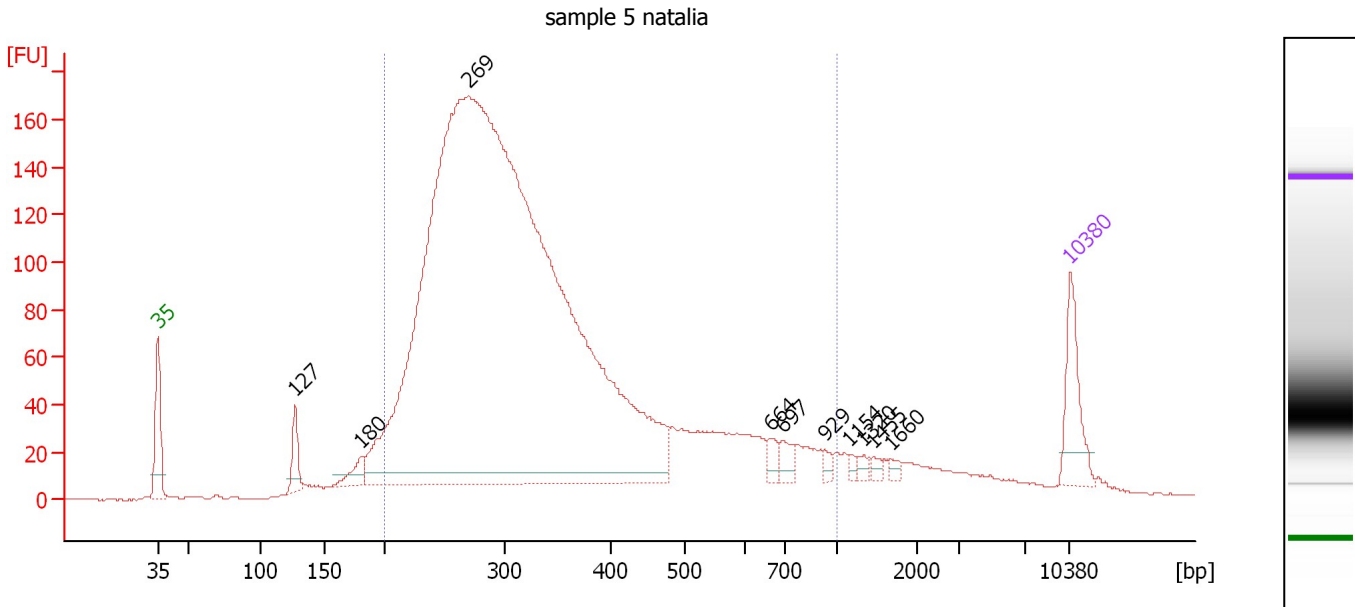
Region table for sample 10 : wgbs ags trex1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	254	10,213.3	1,647.56	865.6	70	25.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 5 natalia

Number of peaks found: 10 Corr. Area 1: 3,311.7
 Noise: 0.1

Peak table for sample 11 : sample 5 natalia

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	52.03	620.0	
3	180	33.38	280.5	
4	269	3,965.08	22,347.0	
5	664	19.08	43.6	
6	697	23.64	51.4	
7	929	9.92	16.2	
8	1,154	7.00	9.2	
9	1,320	8.48	9.7	
10	1,455	8.14	8.5	
11	1,660	6.94	6.3	
12	10,380	75.00	10.9	Upper Marker

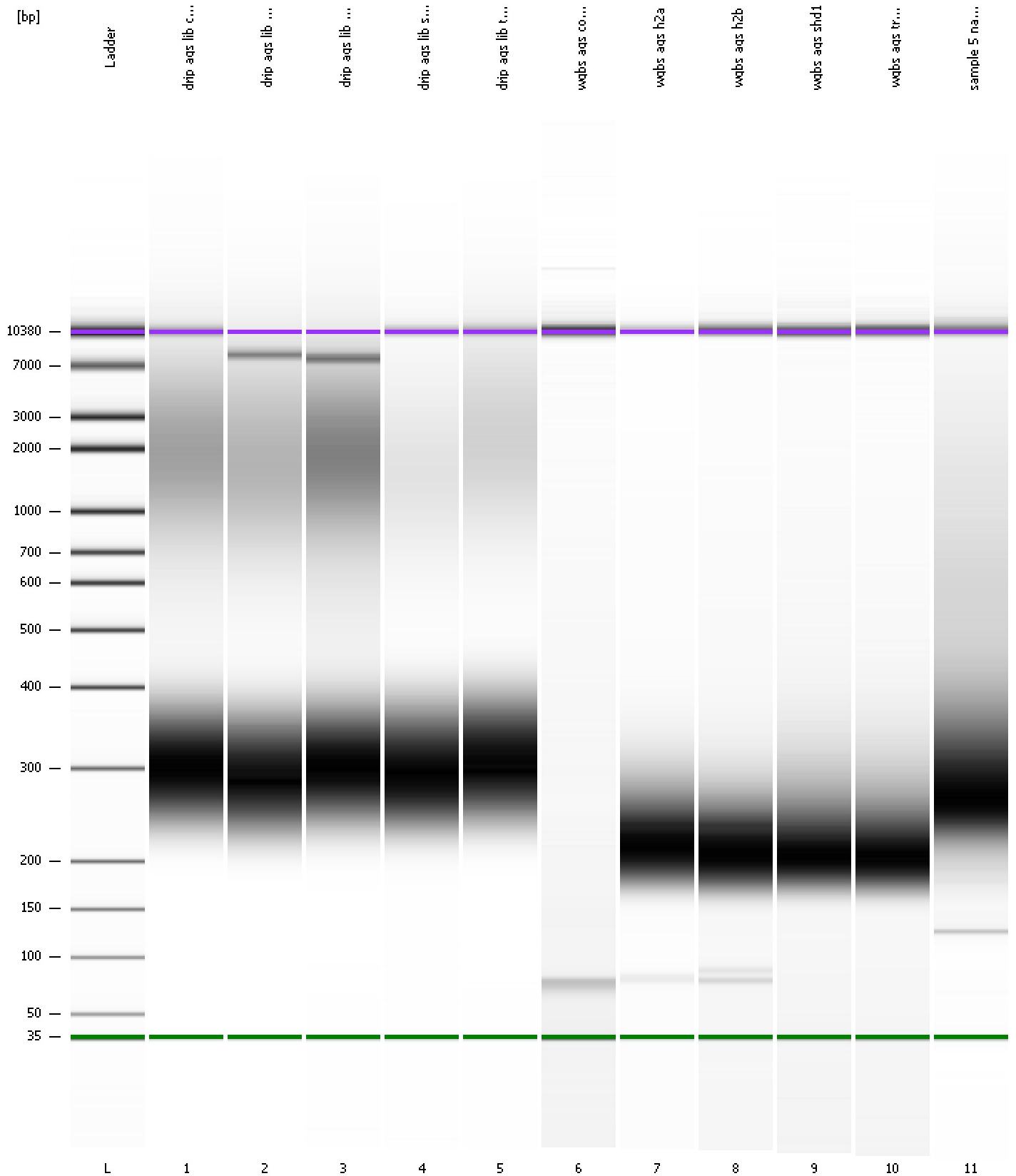
Region table for sample 11 : sample 5 natalia

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	352	21,323.5	4,307.77	3,311.7	89	39.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
Modified: 6/28/2013 12:59:27 PM

Gel Image

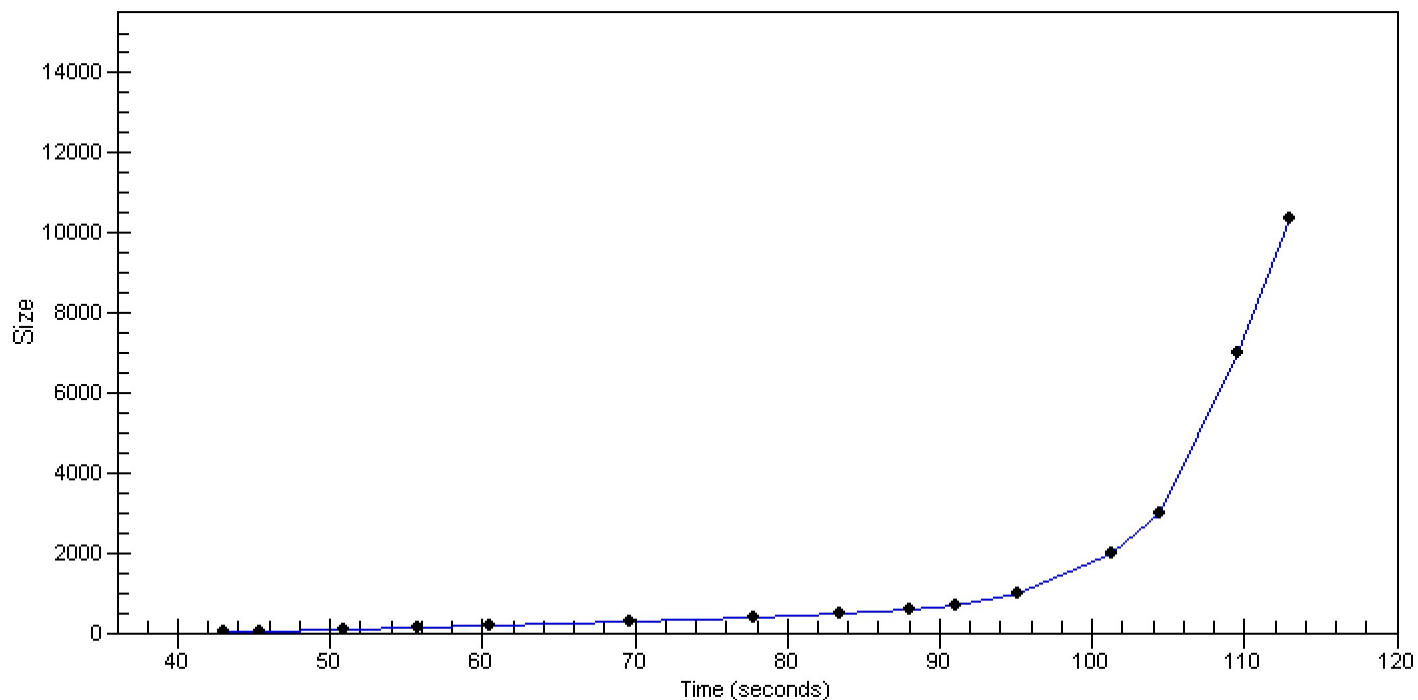


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
Modified: 6/28/2013 12:59:27 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad

Created: 6/28/2013 12:18:58 PM
 Modified: 6/28/2013 12:59:27 PM

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		6/28/2013 12:59:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-28\2013-06-28_003.xad)		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/28/2013 12:19:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1