

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-18\2017-02-18_002.xad

Created: 2/18/2017 1:01:22 PM
Modified: 2/18/2017 1:28:39 PM

Electrophoresis File Run Summary

Instrument Information:

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

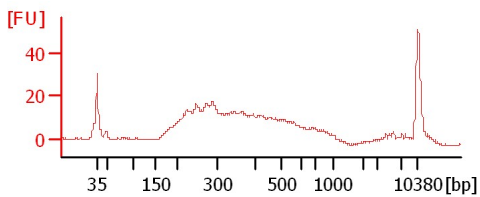
Assay Information:

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

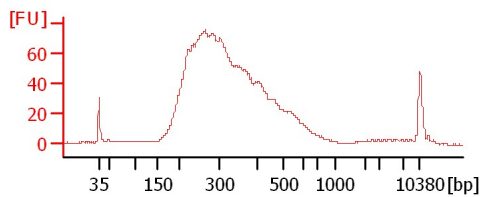
Chip Information:

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

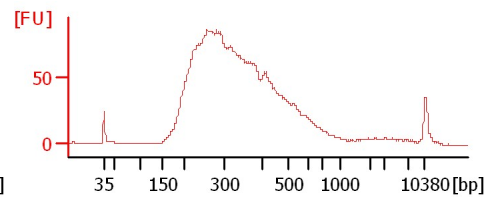
H822P Smith RRBS Library Pool (1:2)



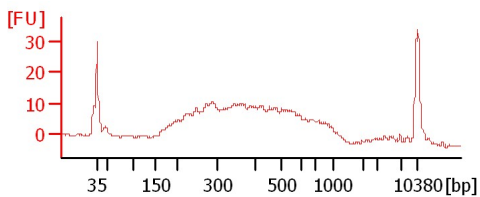
H823P_Mengeling



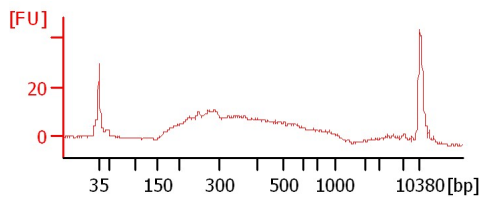
H803P_Shah



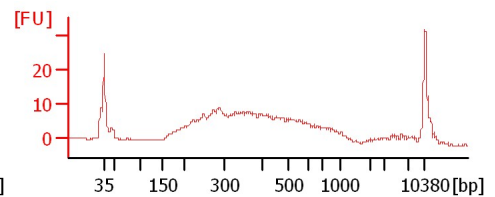
17: RRBS lib



18: RRBS Lib



19: RRBS lib



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H822P Smith RRBS Library Pool (1:2)		<input type="checkbox"/>	✓			
H823P_Mengeling		<input type="checkbox"/>	✓			
H803P_Shah		<input type="checkbox"/>	✓			
17: RRBS lib		<input type="checkbox"/>	✓			
18: RRBS Lib		<input type="checkbox"/>	✓			
19: RRBS lib		<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 :

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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

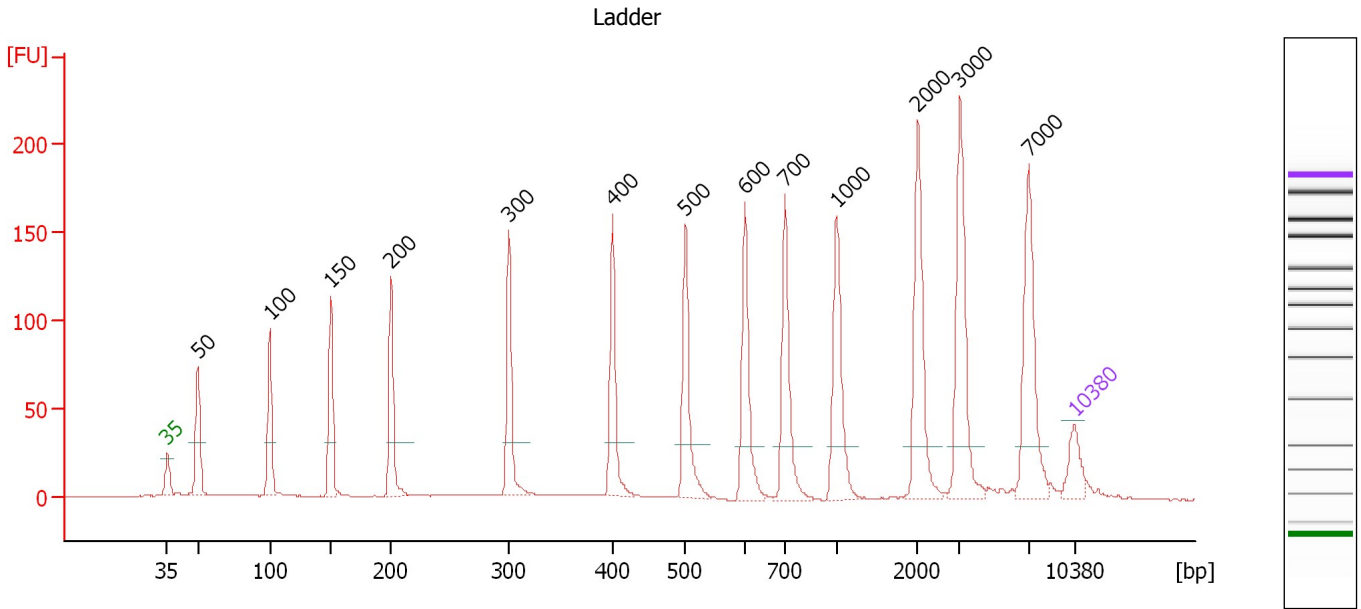
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

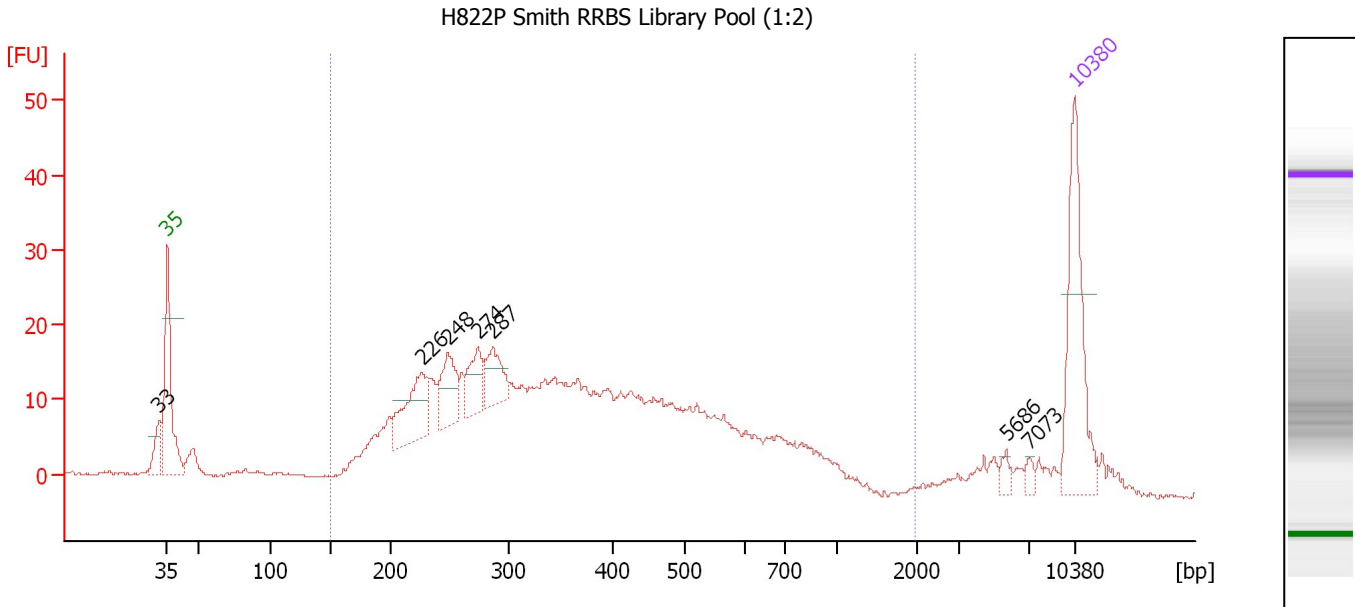
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.29
6	300	150.00	757.6	Ladder Peak	69.36
7	400	150.00	568.2	Ladder Peak	77.34
8	500	150.00	454.5	Ladder Peak	82.98
9	600	150.00	378.8	Ladder Peak	87.58
10	700	150.00	324.7	Ladder Peak	90.68
11	1,000	150.00	227.3	Ladder Peak	94.63
12	2,000	150.00	113.6	Ladder Peak	100.93
13	3,000	150.00	75.8	Ladder Peak	104.17
14	7,000	150.00	32.5	Ladder Peak	109.48
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : H822P Smith RRBS Library Pool (1:2)

Number of peaks found: 7 Corr. Area 1: 551.4
 Noise: 0.3

Peak table for sample 1 : H822P Smith RRBS Library Pool (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.38
2	35	125.00	5,411.3	Lower Marker	43.00
3	226	64.57	433.2		62.63
4	248	42.57	260.1		64.64
5	274	32.60	180.3		66.99
6	287	33.27	175.9		68.14
7	5,686	5.69	1.5		107.73
8	7,073	4.39	0.9		109.55
9	10,380	75.00	10.9	Upper Marker	113.00

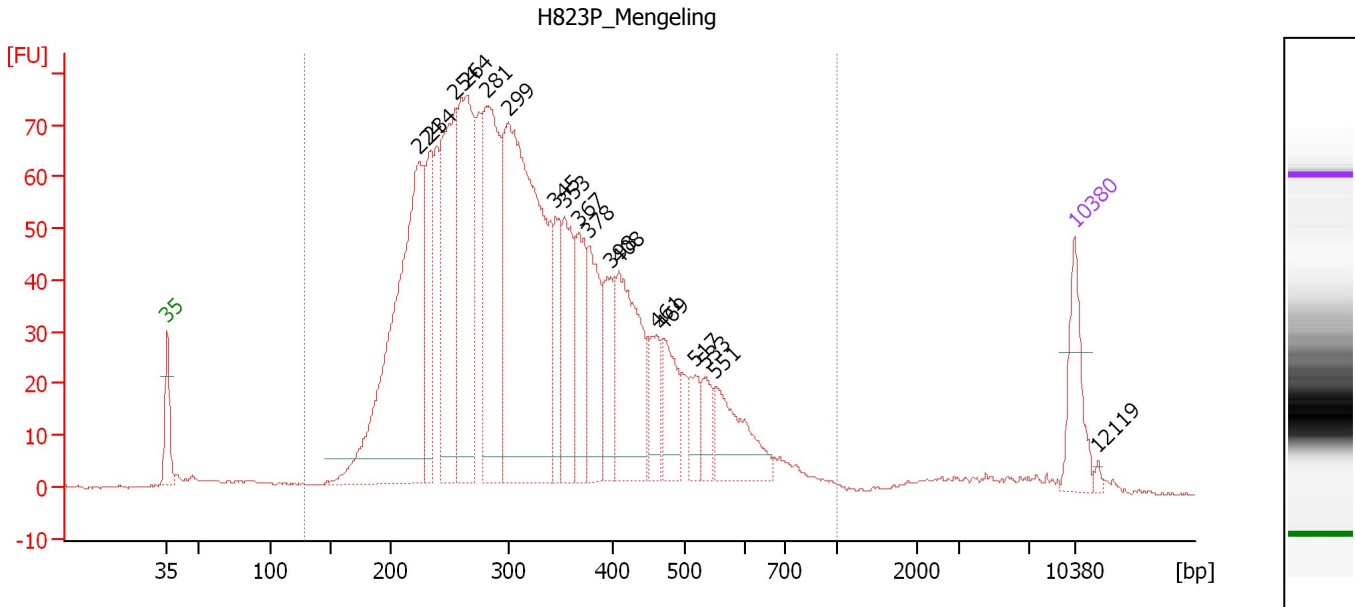
Region table for sample 1 : H822P Smith RRBS Library Pool (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
150	1,962	391	551.4	5,153.4	1,065.66	90	43.8

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Electropherogram Summary Continued ...



Overall Results for sample 2 : H823P_Mengeling

Number of peaks found: 18 Corr. Area 1: 2,006.5
 Noise: 0.2

Peak table for sample 2 : H823P_Mengeling

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	224	734.42	4,971.9		62.45
3	234	182.73	1,185.6		63.33
4	254	380.08	2,266.7		65.19
5	264	392.89	2,256.7		66.07
6	281	401.52	2,168.6		67.59
7	299	841.02	4,255.5		69.31
8	345	103.62	455.4		72.93
9	353	159.76	685.1		73.62
10	367	126.33	521.8		74.69
11	378	147.03	589.5		75.58
12	398	93.06	354.7		77.14
13	408	245.81	913.4		77.78
14	461	73.63	242.1		80.77
15	469	99.10	320.4		81.21
16	517	44.91	131.6		83.76
17	533	42.36	120.4		84.49
18	551	119.96	329.9		85.32
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,119	0.00	0.0		114.81

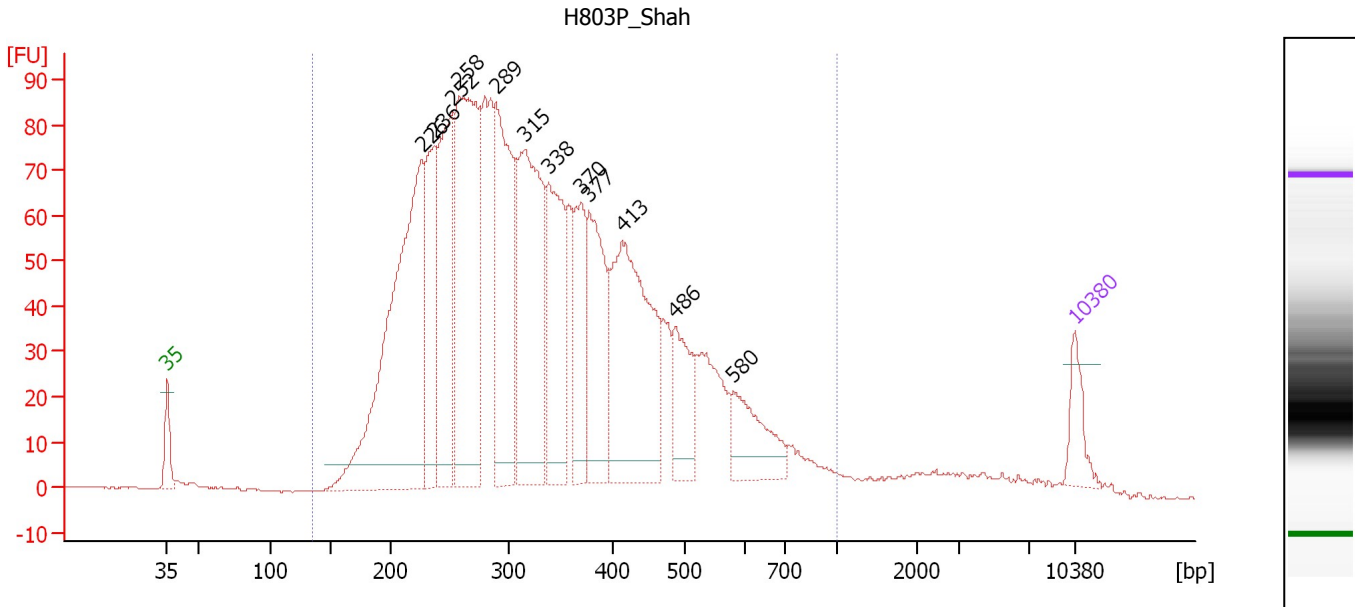
Region table for sample 2 : H823P_Mengeling

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
128	1,000	337	2,006.5	24,881.7	4,815.76	95	34.5

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Electropherogram Summary Continued ...



Overall Results for sample 3 : H803P_Shah

Number of peaks found: 12 Corr. Area 1: 2,455.6
 Noise: 0.2

Peak table for sample 3 : H803P_Shah

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	226	1,357.22	9,109.0		62.62
3	236	378.21	2,426.5		63.57
4	252	569.15	3,421.3		65.01
5	258	989.20	5,819.8		65.51
6	289	650.66	3,414.0		68.34
7	315	786.96	3,789.9		70.52
8	338	464.04	2,078.6		72.41
9	370	277.56	1,136.7		74.94
10	377	397.82	1,596.9		75.54
11	413	728.57	2,672.9		78.07
12	486	210.03	654.6		82.20
13	580	196.46	513.1		86.67
14	10,380	75.00	10.9	Upper Marker	113.00

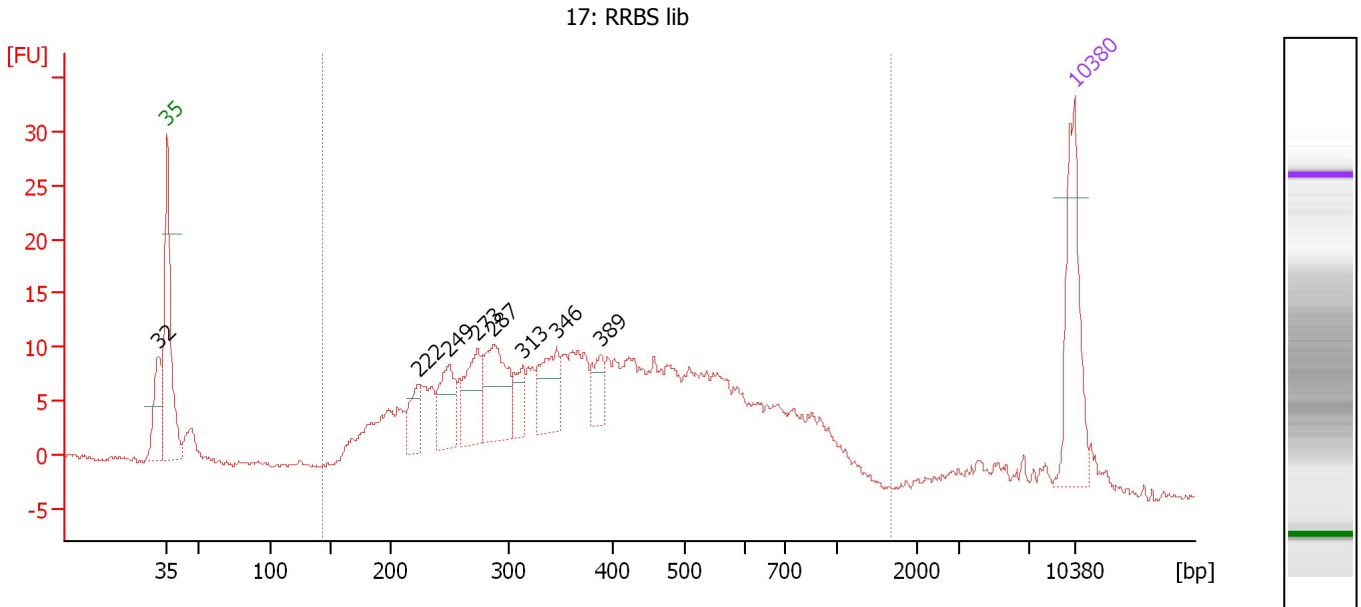
Region table for sample 3 : H803P_Shah

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
134	1,000	348	2,455.6	43,035.7	8,480.77	97	36.2

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 17: RRBS lib

Number of peaks found: 8 Corr. Area 1: 413.9
 Noise: 0.3

Peak table for sample 4 : 17: RRBS lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.25
2	35	125.00	5,411.3	Lower Marker	43.00
3	222	33.40	227.6		62.31
4	249	55.14	335.8		64.72
5	273	62.38	346.1		66.92
6	287	87.66	463.0		68.17
7	313	25.03	121.0		70.42
8	346	54.87	240.4		73.02
9	389	24.44	95.3		76.42
10	10,380	75.00	10.9	Upper Marker	113.00

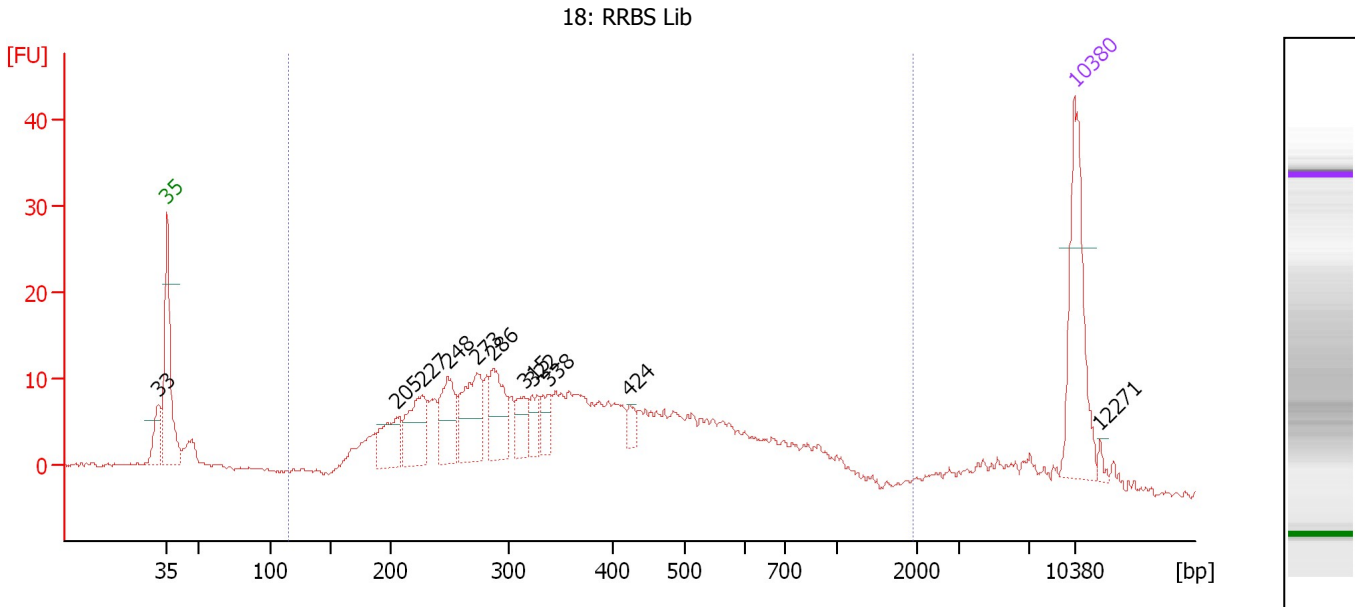
Region table for sample 4 : 17: RRBS lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
143	1,675	425	413.9	5,657.2	1,246.27	93	43.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-18\2017-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 18: RRBS Lib

Number of peaks found: 11 Corr. Area 1: 390.2
 Noise: 0.2

Peak table for sample 5 : 18: RRBS Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	205	44.74	330.7		60.74
4	227	58.12	388.4		62.71
5	248	53.28	324.9		64.68
6	273	67.32	373.7		66.91
7	286	50.60	267.7		68.12
8	315	24.49	117.8		70.55
9	322	19.07	89.6		71.15
10	338	18.53	83.0		72.42
11	424	10.59	37.9		78.68
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,271	0.00	0.0		114.97

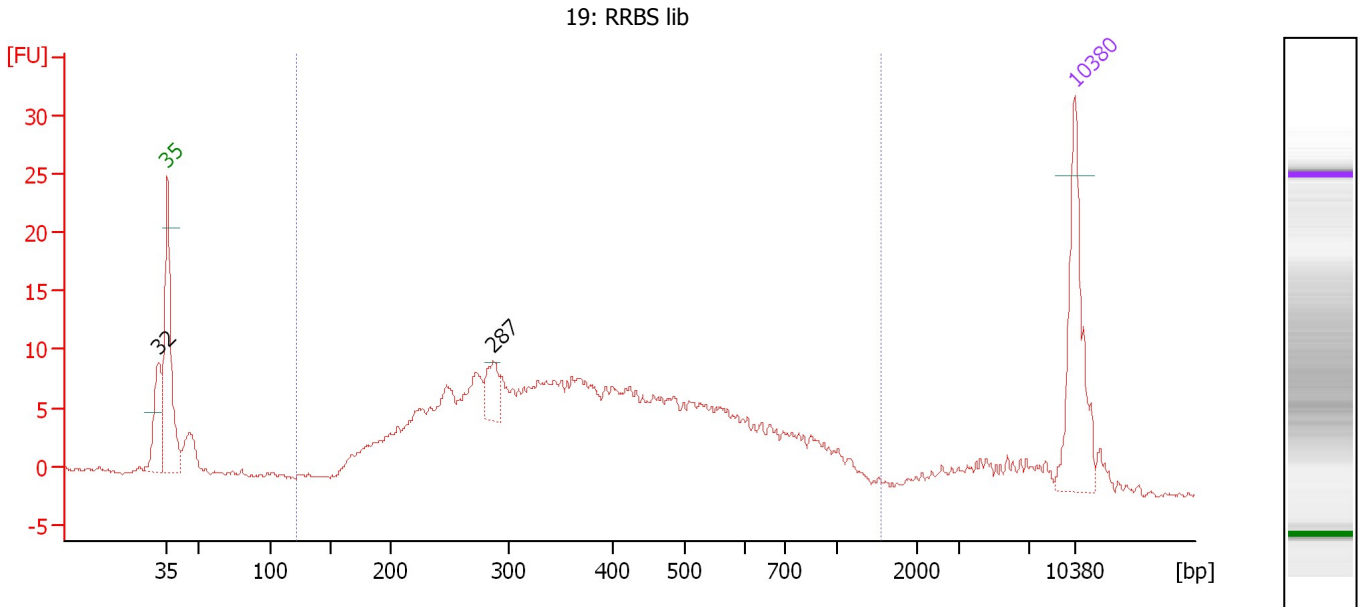
Region table for sample 5 : 18: RRBS Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
115	1,937	407	390.2	4,470.8	931.67	88	49.0

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 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-18\2017-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 19: RRBS lib

Number of peaks found: 2 Corr. Area 1: 311.9
 Noise: 0.2

Peak table for sample 6 : 19: RRBS lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	287	28.80	152.3		68.13
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : 19: RRBS lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
122	1,552	424	311.9	4,562.7	1,003.41	89	46.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-18\2017-02-18_002.xad

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Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-18\2017-02-18_002.xad

Created: 2/18/2017 1:01:22 PM
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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\2017-02-18\2017-02-18_002.xad

Created: 2/18/2017 1:01:22 PM
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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		2/18/2017 1:28:23 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\2017-02-18\2017-02-18_002.xad)		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/18/2017 1:01:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1