

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-19\2019-08-19_001.xad

Created: 8/19/2019 3:04:42 PM
Modified: 8/19/2019 3:52:16 PM

Electrophoresis File Run Summary

Instrument Information:

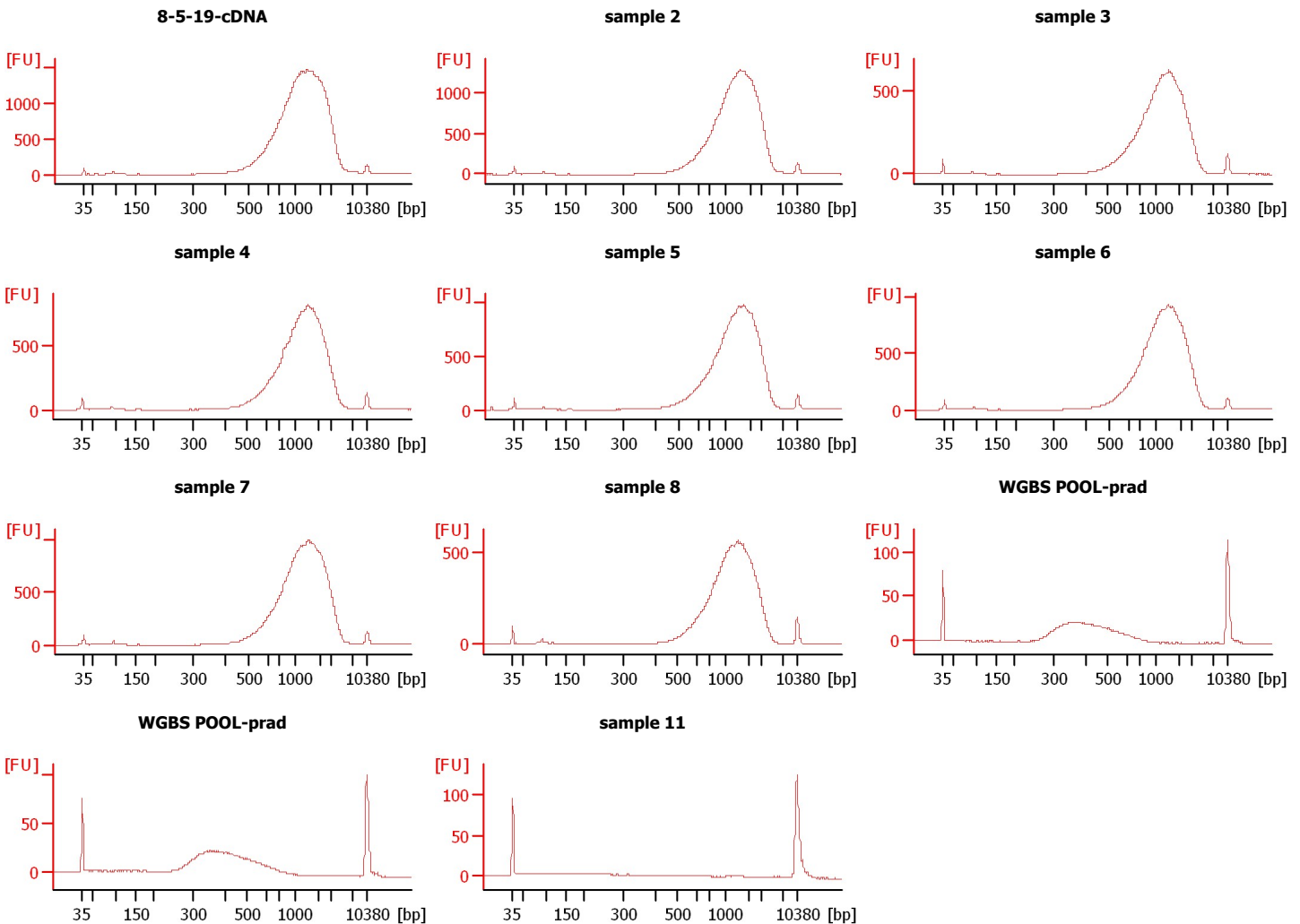
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
8-5-19-cDNA		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
WGBS POOL-prad		<input type="checkbox"/>	✓			
WGBS POOL-prad		<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

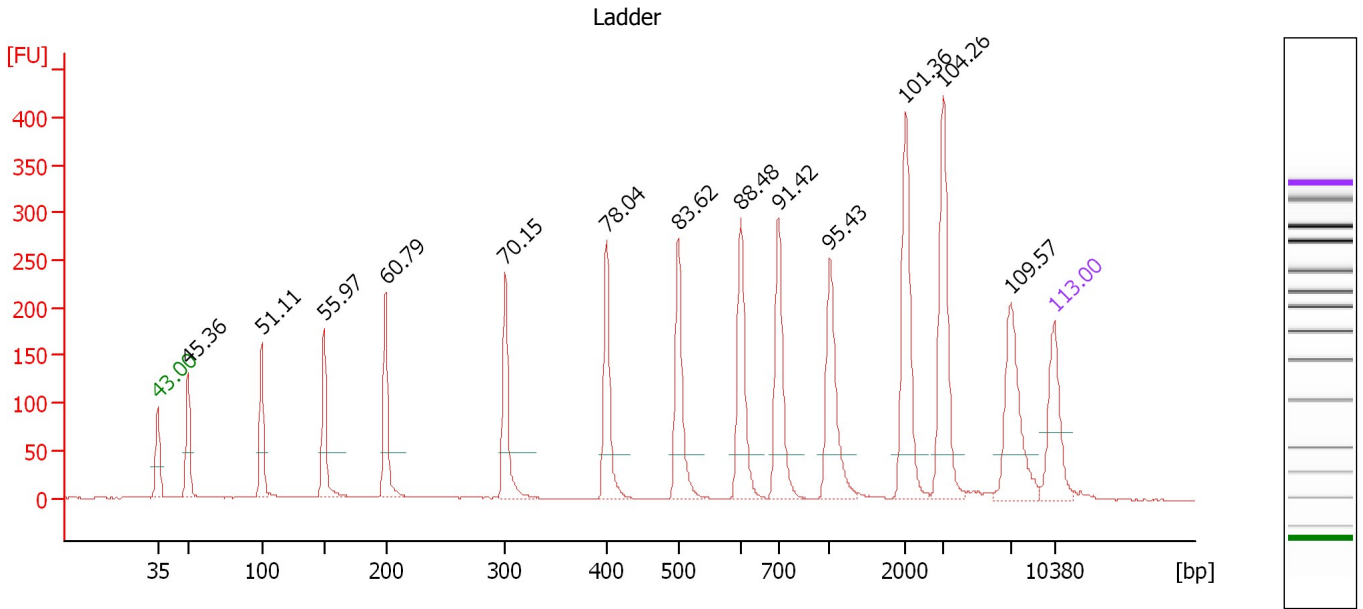
Ladder

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: 0.3

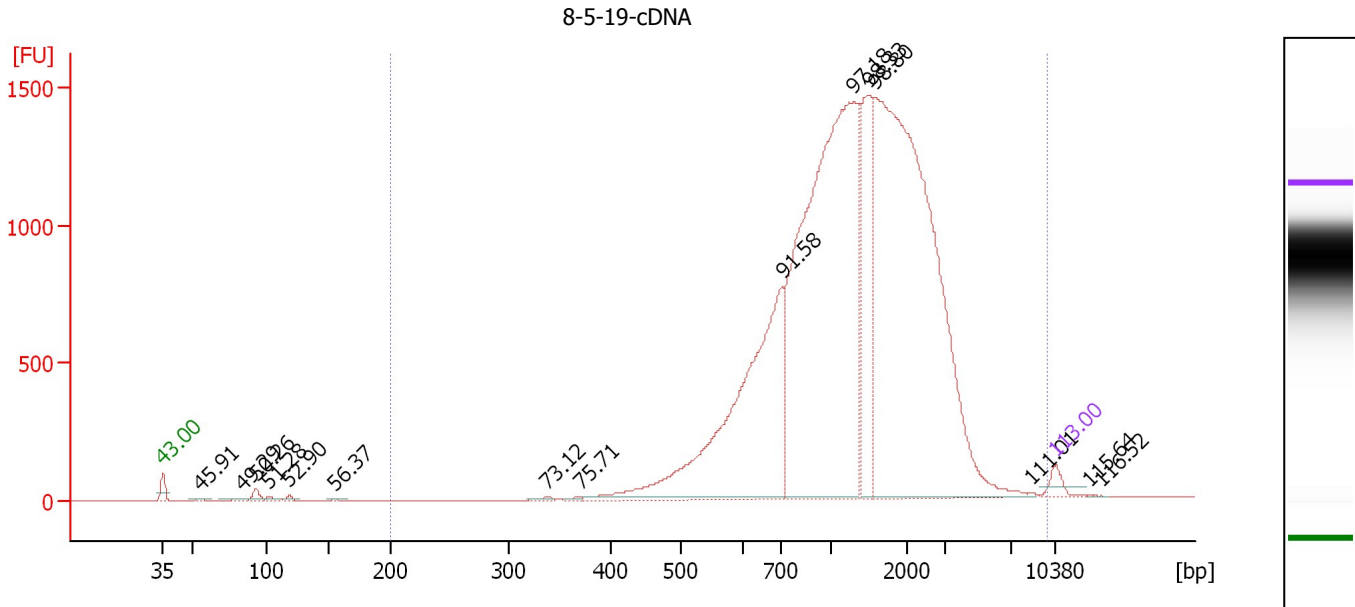
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.97
5	200	150.00	1,136.4	Ladder Peak	60.79
6	300	150.00	757.6	Ladder Peak	70.15
7	400	150.00	568.2	Ladder Peak	78.04
8	500	150.00	454.5	Ladder Peak	83.62
9	600	150.00	378.8	Ladder Peak	88.48
10	700	150.00	324.7	Ladder Peak	91.42
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.26
14	7,000	150.00	32.5	Ladder Peak	109.57
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 8-5-19-cDNA

Number of peaks found: 15 Corr. Area 1: 21,343.4
 Noise: 0.3

Peak table for sample 1 : 8-5-19-cDNA

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	55	20.12	556.3		45.91
3	84	36.83	663.2		49.29
4	93	76.13	1,245.6		50.26
5	102	33.68	501.8		51.28
6	118	32.25	412.8		52.90
7	154	11.15	109.6		56.37
8	338	18.11	81.3		73.12
9	370	14.86	60.8		75.71
10	712	2,874.27	6,117.7		91.58
11	1,294	4,795.74	5,614.9		97.18
12	1,489	969.61	986.5		98.33
13	1,567	5,142.73	4,972.0		98.80
14	8,421	6.36	1.1		111.01
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,976	0.00	0.0		115.64
17	13,842	0.00	0.0		116.52

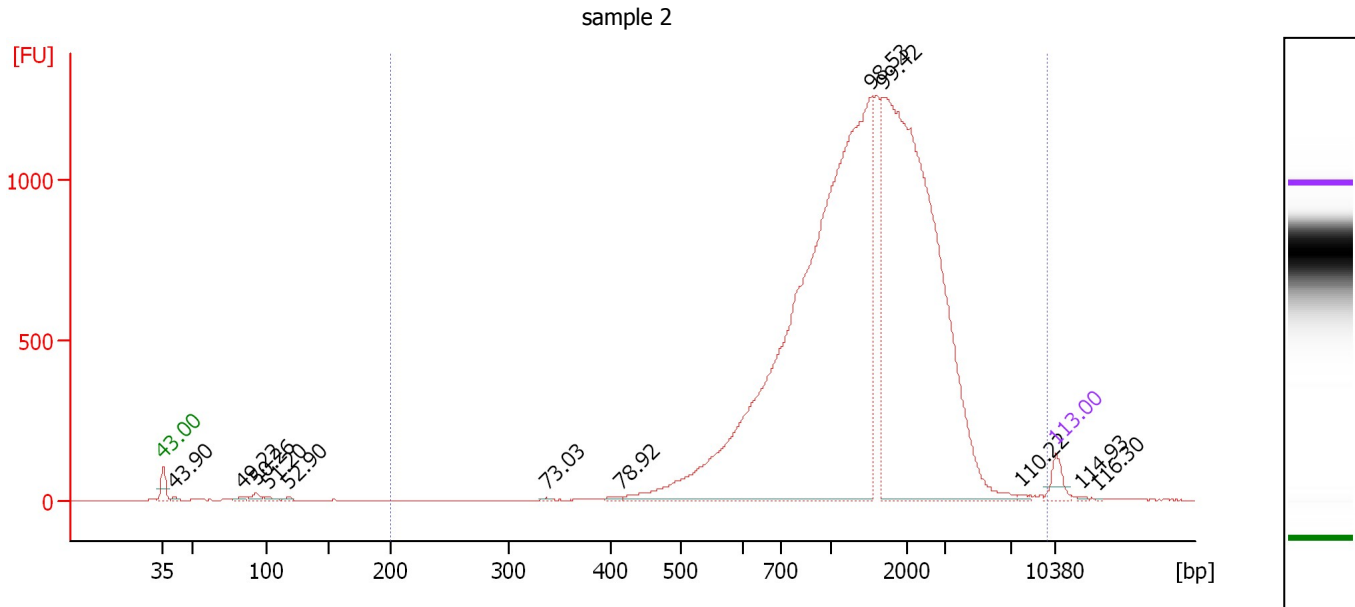
Region table for sample 1 : 8-5-19-cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,700	1,522	13,985.72	21,343.4	19,754.5	99	61.4

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 12 Corr. Area 1: 16,552.9
 Noise: 0.6

Peak table for sample 2 : sample 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	41	12.47	464.4		43.90
3	84	19.88	360.5		49.22
4	93	39.19	641.5		50.26
5	101	15.85	237.9		51.20
6	118	11.35	145.3		52.90
7	336	5.00	22.5		73.03
8	416	15.16	55.2		78.92
9	1,522	5,587.38	5,562.2		98.53
10	1,673	4,123.46	3,734.3		99.42
11	7,642	9.84	2.0		110.22
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,283	0.00	0.0		114.93
14	13,629	0.00	0.0		116.30

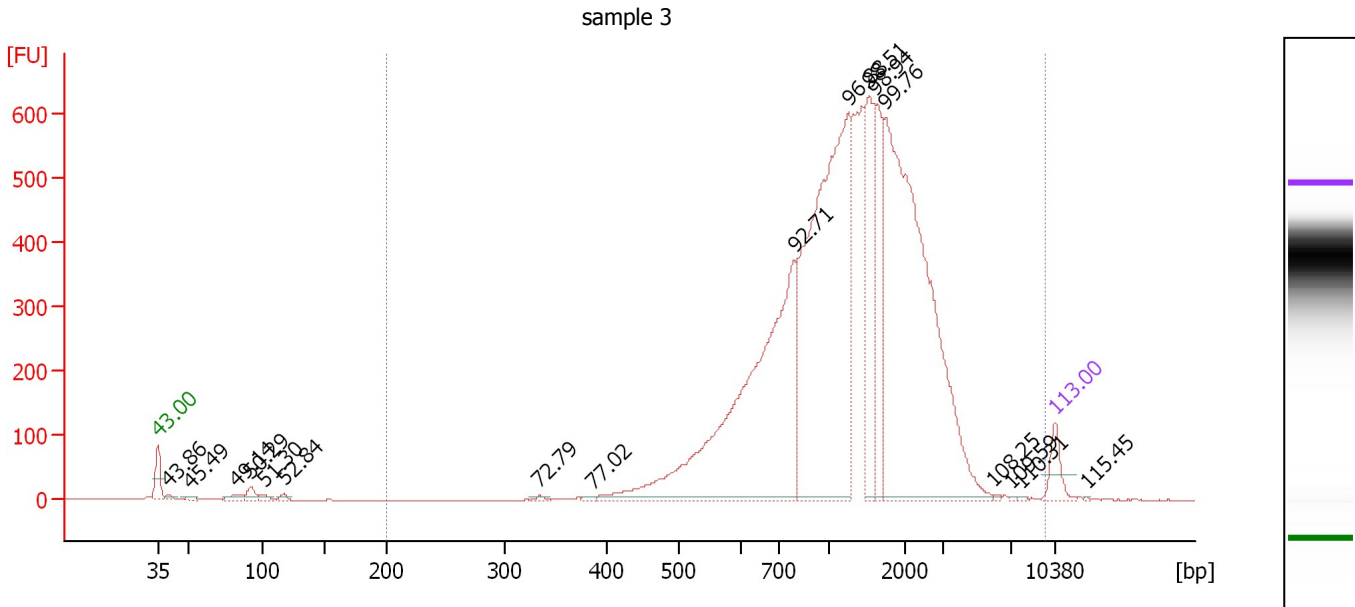
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,700	1,631	10,937.26	16,552.9	14,257.3	99	58.9

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 17 Corr. Area 1: 8,287.7
 Noise: 0.4

Peak table for sample 3 : sample 3

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	40	18.71	700.2		43.86
3	51	16.28	482.4		45.49
4	83	32.91	601.9		49.14
5	93	47.66	777.7		50.29
6	102	23.62	351.2		51.30
7	118	19.05	245.3		52.84
8	333	10.29	46.7		72.79
9	387	9.75	38.2		77.02
10	796	1,777.68	3,383.5		92.71
11	1,244	1,821.14	2,218.3		96.88
12	1,519	390.46	389.5		98.51
13	1,592	331.02	315.1		98.94
14	1,729	1,872.05	1,640.2		99.76
15	6,007	4.91	1.2		108.25
16	7,026	2.89	0.6		109.59
17	7,735	3.58	0.7		110.31
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,789	0.00	0.0		115.45

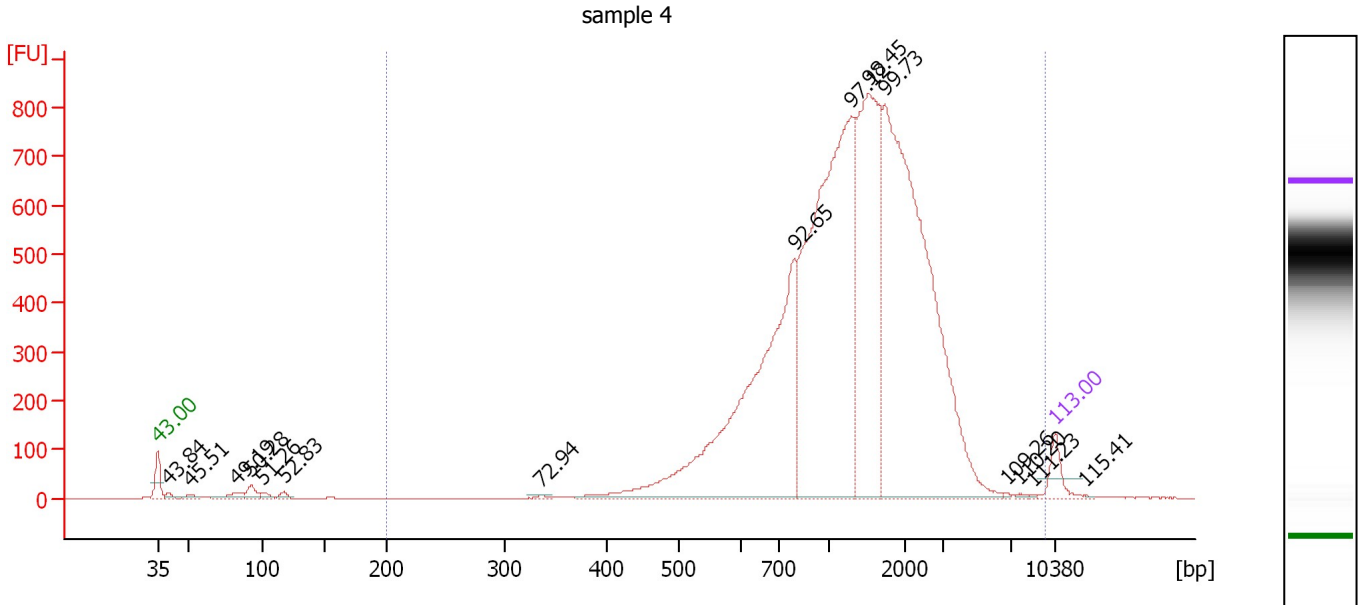
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,700	1,462	6,897.46	8,287.7	9,966.1	99	58.9

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 15 Corr. Area 1: 10,798.7
 Noise: 0.4

Peak table for sample 4 : sample 4

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	40	20.06	754.2		43.84
3	51	20.62	609.6		45.51
4	83	48.79	887.4		49.19
5	93	57.38	937.8		50.28
6	101	26.51	395.7		51.26
7	118	23.80	306.5		52.83
8	335	7.87	35.5		72.94
9	792	1,832.79	3,506.9		92.65
10	1,285	2,137.35	2,520.5		97.12
11	1,509	1,124.62	1,129.5		98.45
12	1,724	2,246.92	1,974.5		99.73
13	6,772	4.13	0.9		109.26
14	7,621	5.49	1.1		110.20
15	8,638	2.84	0.5		111.23
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,751	0.00	0.0		115.41

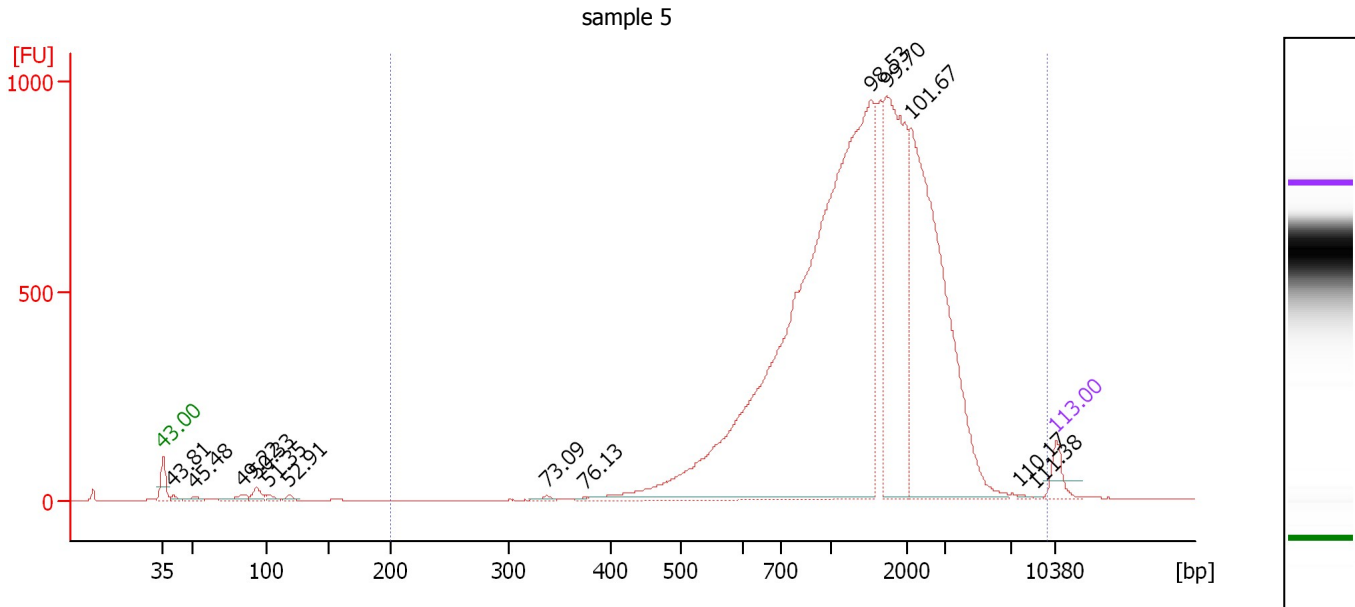
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,700	1,503	7,567.76	10,798.7	10,692.5	98	60.0

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 13 Corr. Area 1: 12,673.3
 Noise: 0.4

Peak table for sample 5 : sample 5

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	40	21.44	809.3		43.81
3	51	21.90	650.7		45.48
4	84	44.35	804.3		49.22
5	93	60.69	986.5		50.33
6	102	24.96	369.4		51.35
7	119	22.37	286.0		52.91
8	337	13.52	60.8		73.09
9	376	6.22	25.1		76.13
10	1,523	4,588.65	4,564.9		98.53
11	1,719	1,253.89	1,105.1		99.70
12	2,106	1,778.37	1,279.4		101.67
13	7,591	5.25	1.0		110.17
14	8,787	2.60	0.4		111.38
15	10,380	75.00	10.9	Upper Marker	113.00

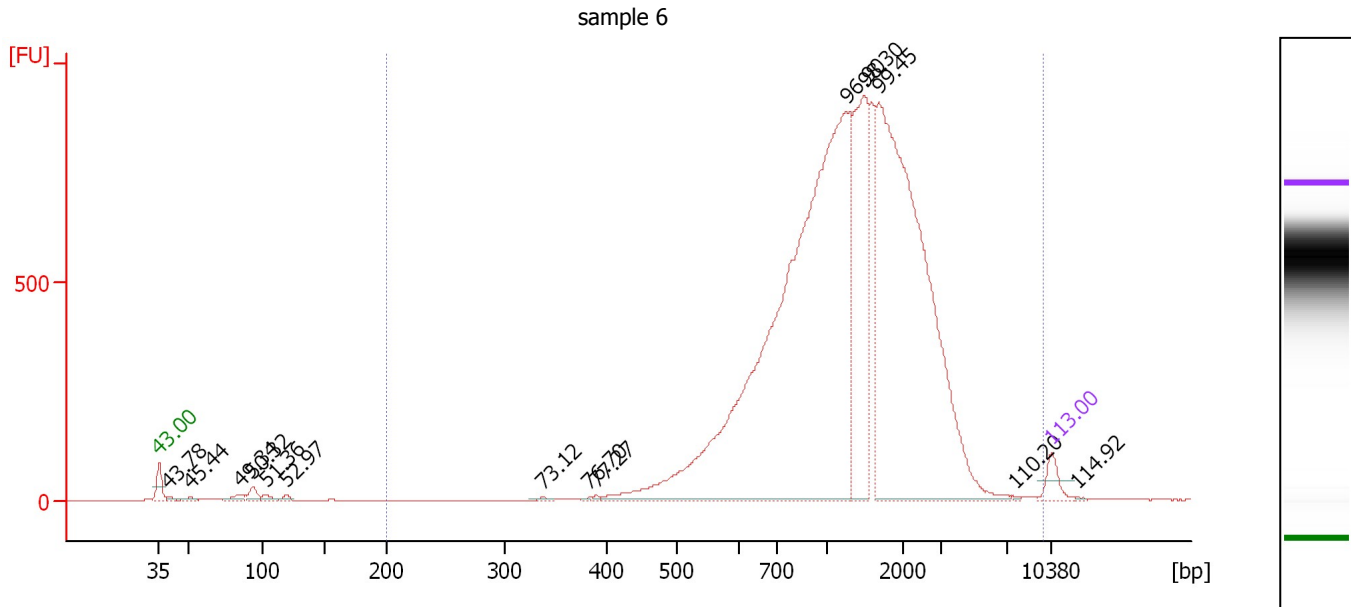
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,700	1,617	8,669.57	12,673.3	11,579.8	98	58.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 14 Corr. Area 1: 12,270.2
 Noise: 0.5

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	40	22.20	841.9		43.78
3	51	21.12	631.6		45.44
4	85	48.18	863.6		49.34
5	93	72.17	1,174.4		50.32
6	103	33.37	493.1		51.36
7	119	26.35	335.3		52.97
8	338	10.48	47.0		73.12
9	383	6.65	26.3		76.70
10	390	8.58	33.3		77.27
11	1,248	4,937.82	5,996.2		96.90
12	1,484	1,028.21	1,049.7		98.30
13	1,677	3,192.71	2,884.9		99.45
14	7,619	4.33	0.9		110.20
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,272	0.00	0.0		114.92

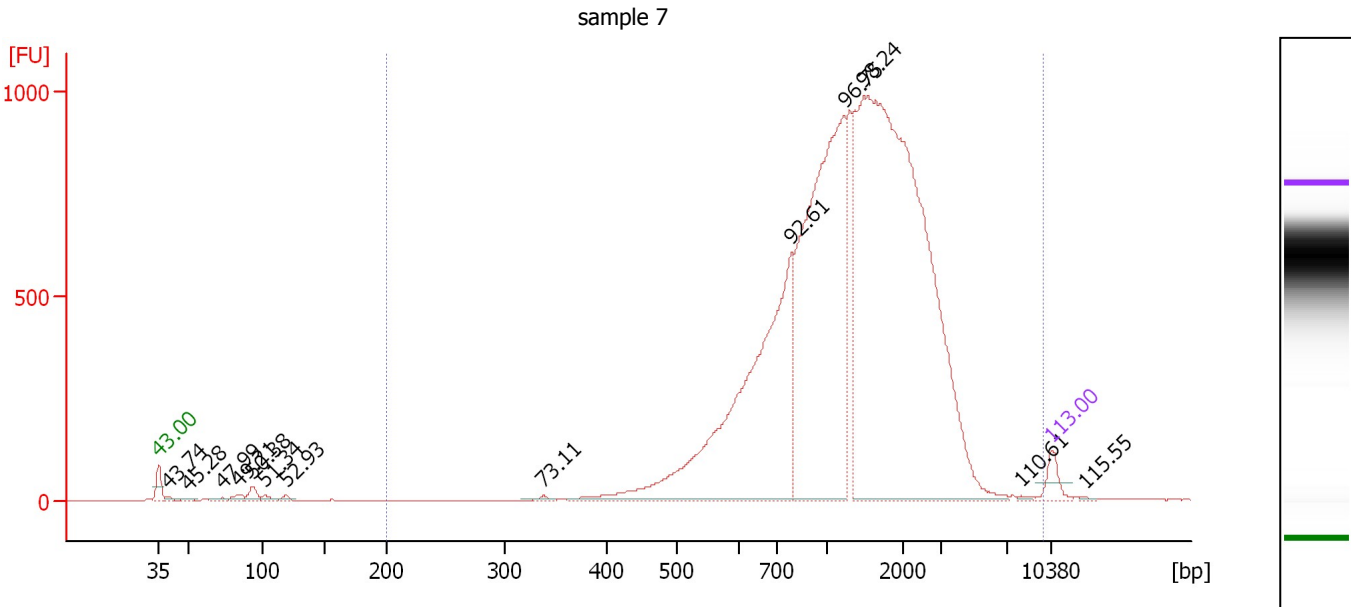
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,700	1,494	10,123.95	12,270.2	14,312.0	98	60.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 13 Corr. Area 1: 13,547.2
 Noise: 0.4

Peak table for sample 7 : sample 7

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	40	18.55	707.6		43.74
3	49	20.02	613.0		45.28
4	73	22.26	462.9		47.99
5	83	39.00	707.9		49.21
6	94	69.99	1,132.6		50.38
7	102	29.45	436.1		51.34
8	119	24.69	315.2		52.93
9	338	17.86	80.2		73.11
10	789	2,357.18	4,528.9		92.61
11	1,222	2,425.10	3,007.5		96.75
12	1,473	4,506.10	4,636.5		98.24
13	8,027	7.85	1.5		110.61
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,890	0.00	0.0		115.55

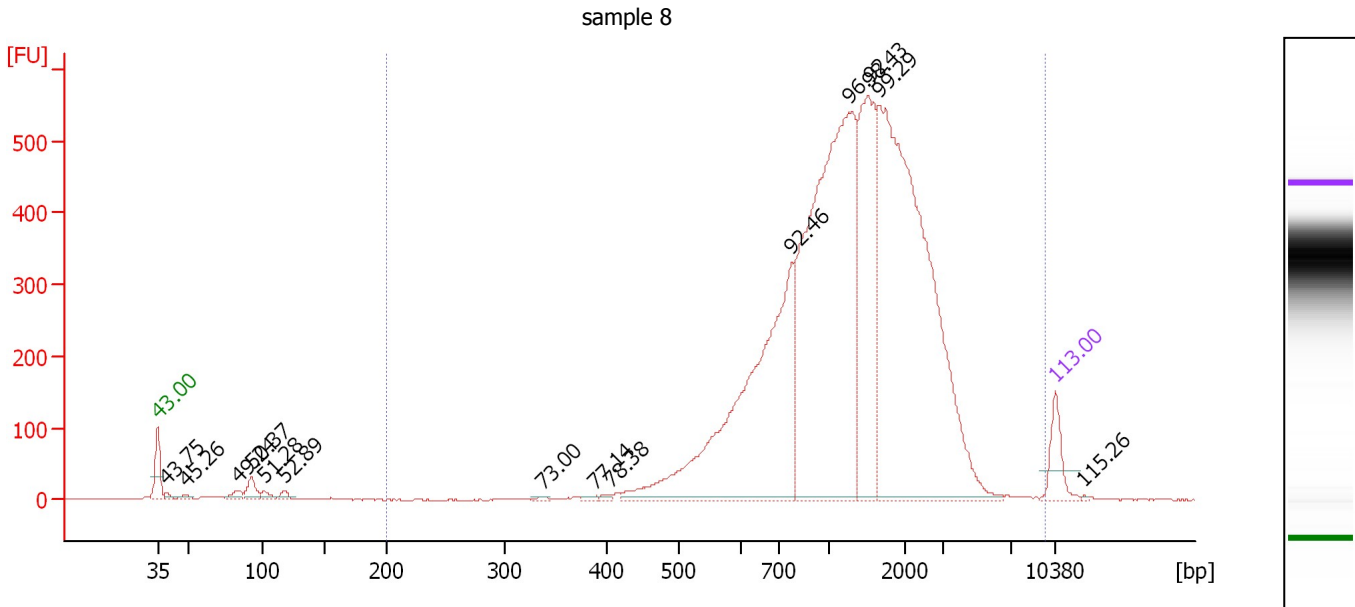
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,700	1,522	9,776.96	13,547.2	13,821.5	98	60.6

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 14 Corr. Area 1: 7,464.3
 Noise: 0.3

Peak table for sample 8 : sample 8

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	40	13.80	525.6		43.75
3	49	15.56	477.9		45.26
4	84	30.04	543.9		49.24
5	93	56.53	916.2		50.37
6	102	23.21	345.8		51.28
7	118	20.57	263.4		52.89
8	336	6.39	28.8		73.00
9	389	7.04	27.4		77.14
10	406	8.25	30.8		78.38
11	778	1,186.84	2,311.7		92.46
12	1,252	1,520.50	1,840.8		96.92
13	1,505	538.24	541.7		98.43
14	1,650	1,622.78	1,489.7		99.29
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,603	0.00	0.0		115.26

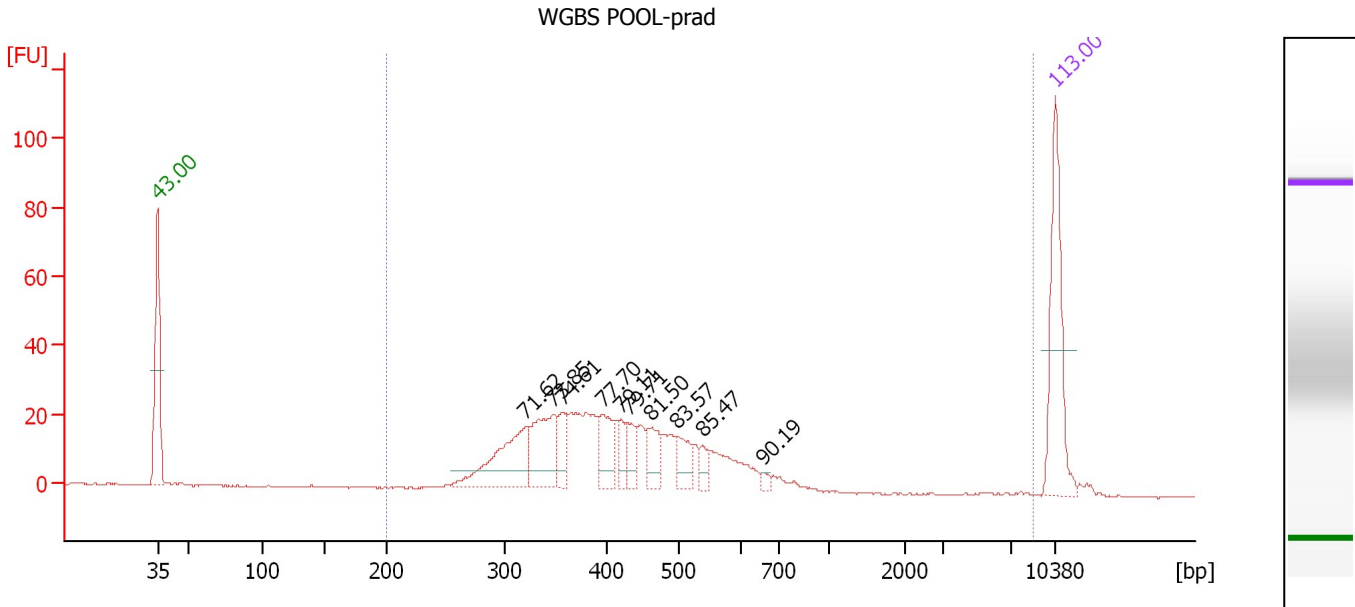
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,700	1,490	5,005.58	7,464.3	7,147.3	97	59.7

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Electropherogram Summary Continued ...



Overall Results for sample 9 : WGBS POOL-prad

Number of peaks found: 10 Corr. Area 1: 479.3
 Noise: 0.2

Peak table for sample 9 : WGBS POOL-prad

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	319	85.02	404.4		71.62
3	347	67.22	293.7		73.85
4	356	25.24	107.3		74.61
5	396	36.45	139.6		77.70
6	419	18.96	68.5		79.11
7	430	18.10	63.8		79.71
8	462	26.12	85.6		81.50
9	499	22.27	67.6		83.57
10	538	11.41	32.1		85.47
11	658	3.92	9.0		90.19
12	10,380	75.00	10.9	Upper Marker	113.00

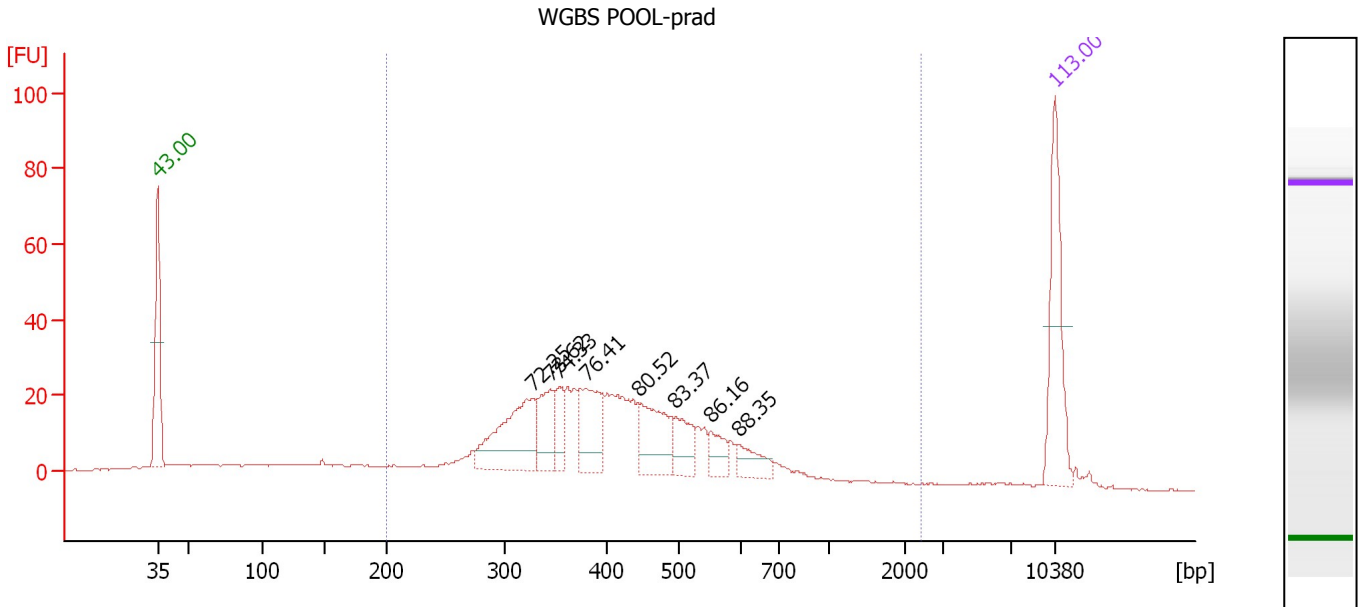
Region table for sample 9 : WGBS POOL-prad

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	8,706	459	537.77	479.3	2,065.0	97	99.2

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Electropherogram Summary Continued ...



Overall Results for sample 10 : WGBS POOL-prad

Number of peaks found: 8 Corr. Area 1: 581.9
 Noise: 0.2

Peak table for sample 10 : WGBS POOL-prad

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	327	110.66	513.4		72.25
3	344	49.45	217.8		73.62
4	353	26.95	115.7		74.33
5	379	69.29	276.8		76.41
6	444	68.43	233.3		80.52
7	496	33.89	103.6		83.37
8	552	21.76	59.7		86.16
9	597	23.27	59.0		88.35
10	10,380	75.00	10.9	Upper Marker	113.00

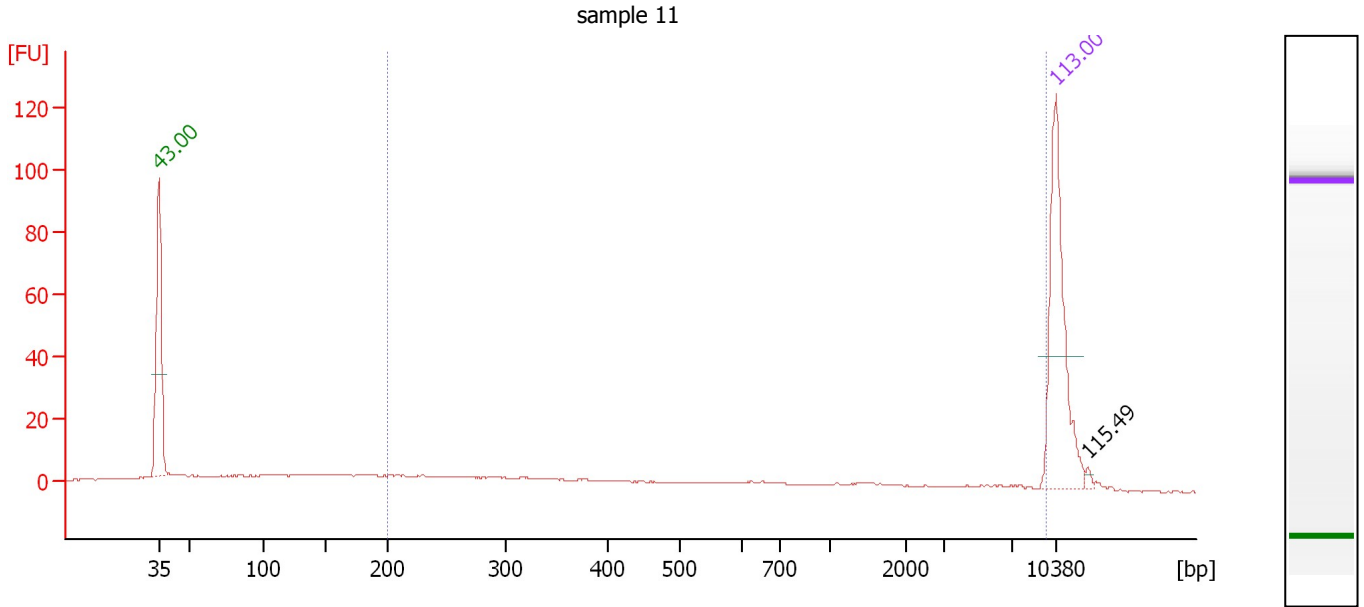
Region table for sample 10 : WGBS POOL-prad

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,435	449	731.14	581.9	2,885.7	82	48.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-19\2019-08-19_001.xad

Created: 8/19/2019 3:04:42 PM
 Modified: 8/19/2019 3:52:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 1 Corr. Area 1: 131.9
 Noise: 0.2

Peak table for sample 11 : sample 11

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	12,830	0.00	0.0		115.49

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,700	1,764	100.44	131.9	391.5	53	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-19\2019-08-19_001.xad

Created: 8/19/2019 3:04:42 PM
Modified: 8/19/2019 3:52:16 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-19\2019-08-19_001.xad

Created: 8/19/2019 3:04:42 PM
 Modified: 8/19/2019 3:52:16 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		8/19/2019 3:45:59 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\2019-08-19\2019-08-19_001.xad)		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/19/2019 3:04:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1