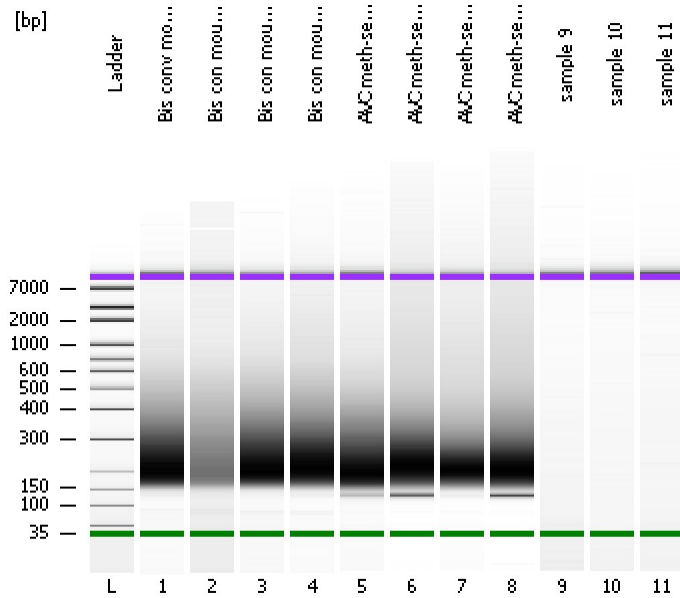


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
Modified: 4/10/2015 5:04:24 PM

Electrophoresis File Run Summary



Instrument Information:

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

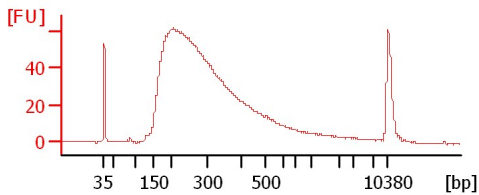
Assay Information:

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

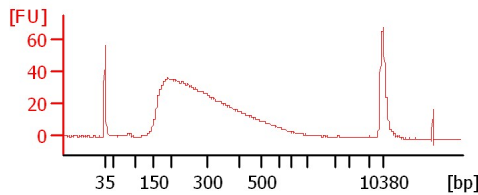
Chip Information:

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

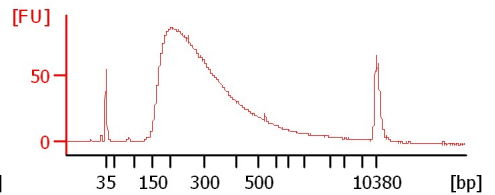
Bis conv mouse OE Gong WT1a



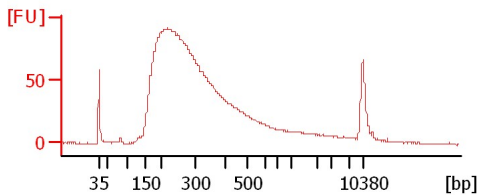
Bis con mouse OE Gong WT1b



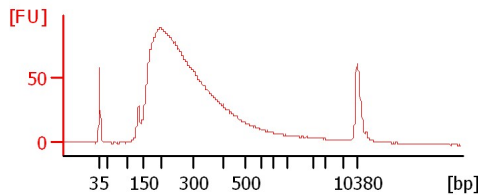
Bis con mouse OE Gong WT2a



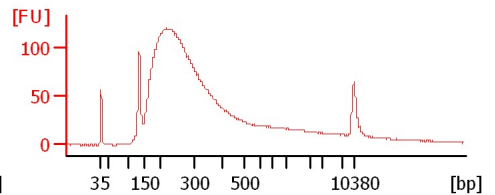
Bis con mouse OE Gong WT2b



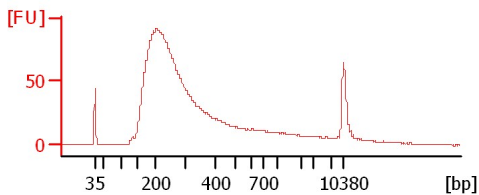
AVC meth-seq lib 2



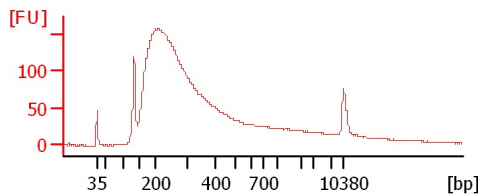
AVC meth-seq lib 8



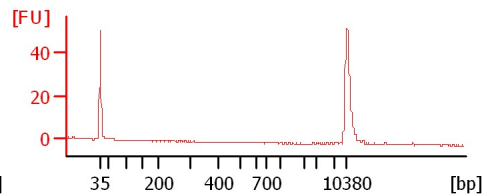
AVC meth-seq lib 1



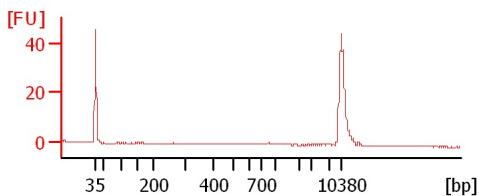
AVC meth-seq lib 10



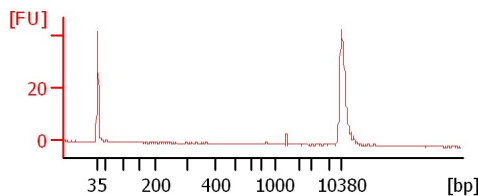
sample 9



sample 10



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
Modified: 4/10/2015 5:04:24 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Bis conv mouse OE Gong WT 1a		<input type="checkbox"/>	✓			
Bis con mouse OE Gong WT1b		<input type="checkbox"/>	✓			
Bis con mouse OE Gong WT2a		<input type="checkbox"/>	✓			
Bis con mouse OE Gong WT2b		<input type="checkbox"/>	✓			
AVC meth-seq lib 2		<input type="checkbox"/>	✓			
AVC meth-seq lib 8		<input type="checkbox"/>	✓			
AVC meth-seq lib 1		<input type="checkbox"/>	✓			
AVC meth-seq lib 10		<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 :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
Modified: 4/10/2015 5:04:24 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

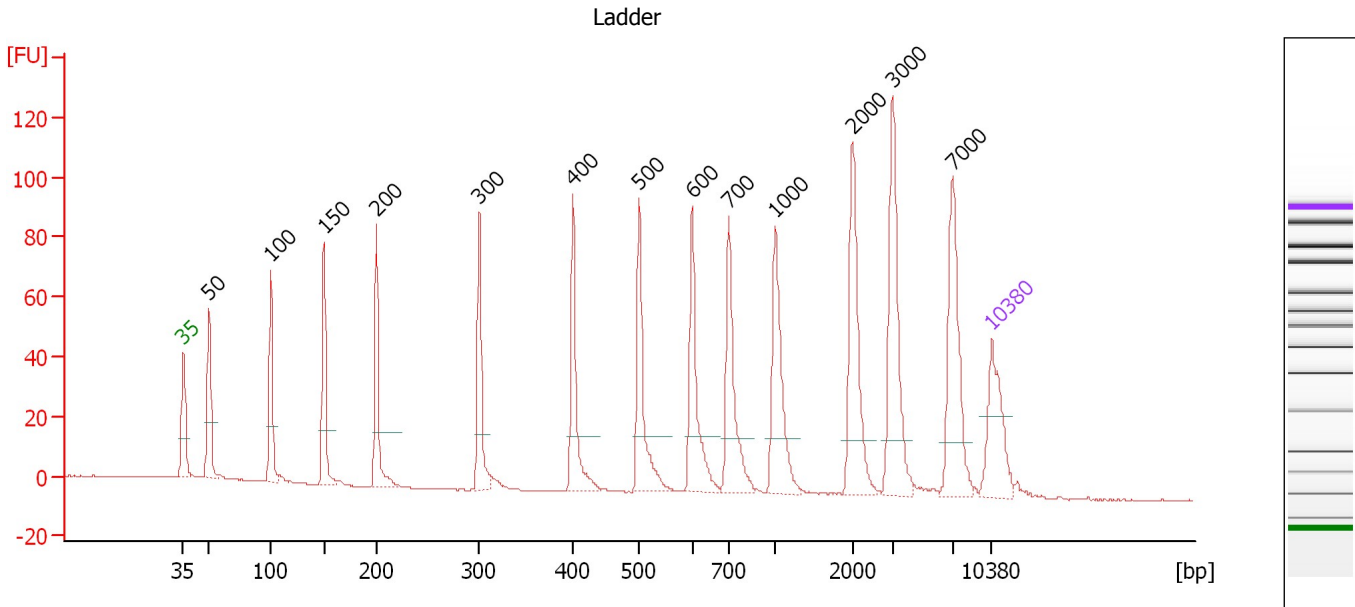
Ladder

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\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

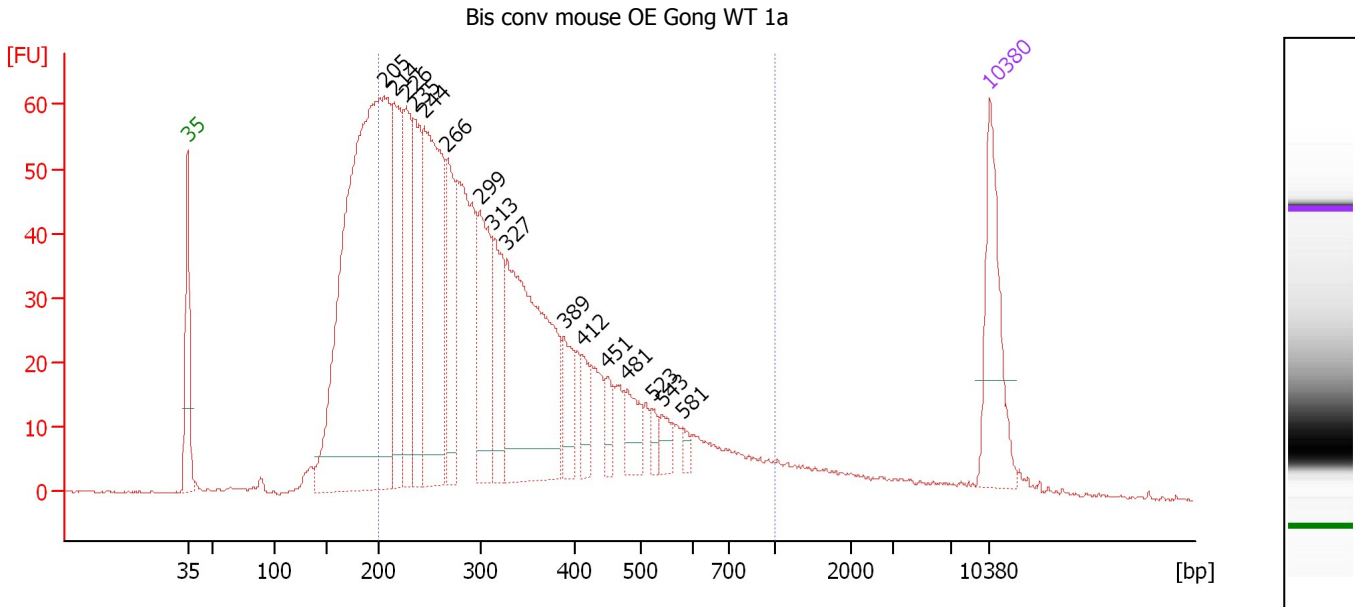
Peak table for Ladder

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	45.22
3	100	150.00	2,272.7	Ladder Peak	50.57
4	150	150.00	1,515.2	Ladder Peak	55.19
5	200	150.00	1,136.4	Ladder Peak	59.72
6	300	150.00	757.6	Ladder Peak	68.63
7	400	150.00	568.2	Ladder Peak	76.75
8	500	150.00	454.5	Ladder Peak	82.48
9	600	150.00	378.8	Ladder Peak	87.05
10	700	150.00	324.7	Ladder Peak	90.24
11	1,000	150.00	227.3	Ladder Peak	94.25
12	2,000	150.00	113.6	Ladder Peak	100.95
13	3,000	150.00	75.8	Ladder Peak	104.46
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Bis conv mouse OE Gong WT 1a

Number of peaks found: 16 Corr. Area 1: 1,421.9
 Noise: 0.1

Peak table for sample 1 : Bis conv mouse OE Gong WT 1a

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	205	812.79	6,021.9		60.12
3	214	156.07	1,102.9		61.00
4	226	134.07	899.2		62.02
5	235	119.62	772.0		62.81
6	244	260.01	1,613.4		63.65
7	266	101.88	580.1		65.60
8	299	120.38	610.1		68.53
9	313	85.91	416.4		69.65
10	327	292.02	1,351.0		70.86
11	389	44.73	174.1		75.88
12	412	28.77	105.7		77.47
13	451	16.83	56.6		79.65
14	481	33.02	104.1		81.37
15	523	10.83	31.4		83.51
16	543	16.03	44.7		84.44
17	581	7.44	19.4		86.16
18	10,380	75.00	10.9	Upper Marker	113.00

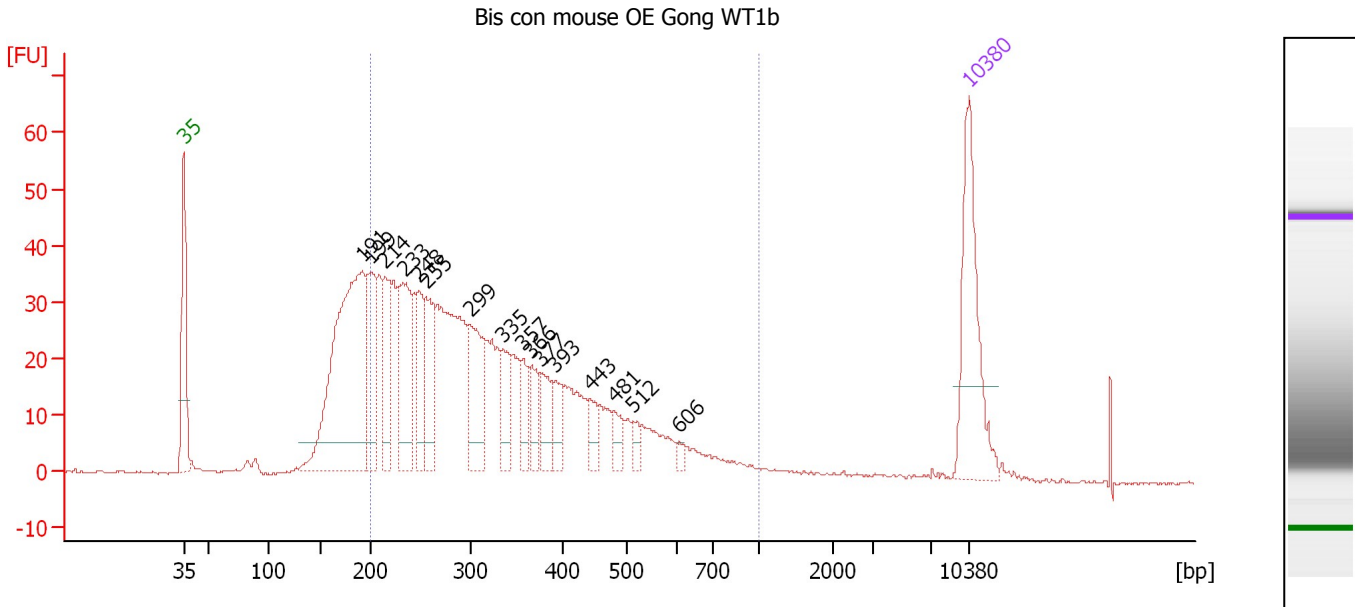
Region table for sample 1 : Bis conv mouse OE Gong WT 1a

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	338	1,000	1,421.9	11,179.8	75	39.9	2,145.36	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Bis con mouse OE Gong WT1b

Number of peaks found: 16 Corr. Area 1: 857.1
 Noise: 0.3

Peak table for sample 2 : Bis con mouse OE Gong WT1b

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	191	284.90	2,256.1		58.93
3	199	77.29	589.4		59.60
4	214	53.23	376.6		60.98
5	233	97.10	631.9		62.64
6	248	44.94	274.2		64.02
7	255	57.65	342.2		64.64
8	299	71.37	361.7		68.54
9	335	29.71	134.5		71.44
10	357	22.58	95.9		73.24
11	366	23.56	97.5		74.01
12	377	27.36	109.9		74.91
13	393	20.31	78.4		76.15
14	443	14.27	48.8		79.24
15	481	12.48	39.3		81.38
16	512	8.22	24.3		83.04
17	606	4.28	10.7		87.23
18	10,380	75.00	10.9	Upper Marker	113.00

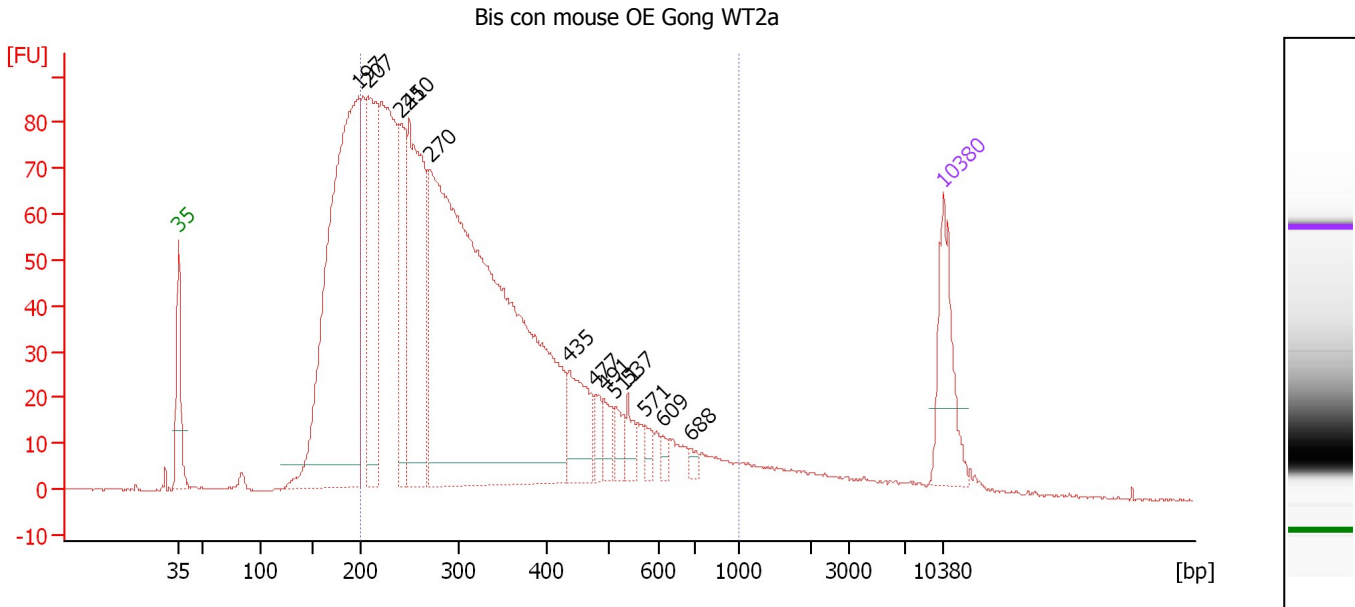
Region table for sample 2 : Bis con mouse OE Gong WT1b

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	339	1,000	857.1	5,513.3	77	36.9	1,072.38	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Bis con mouse OE Gong WT2a

Number of peaks found: 13 Corr. Area 1: 1,950.2
 Noise: 0.2

Peak table for sample 3 : Bis con mouse OE Gong WT2a

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	197	770.68	5,925.1		59.45
3	207	261.97	1,913.4		60.38
4	241	120.90	760.5		63.36
5	250	339.94	2,063.4		64.14
6	270	1,282.85	7,187.4		65.99
7	435	83.47	291.0		78.73
8	477	19.84	63.0		81.17
9	491	21.71	67.0		81.95
10	511	22.49	66.7		82.98
11	537	22.37	63.2		84.15
12	571	12.96	34.4		85.71
13	609	8.37	20.8		87.32
14	688	7.29	16.1		89.86
15	10,380	75.00	10.9	Upper Marker	113.00

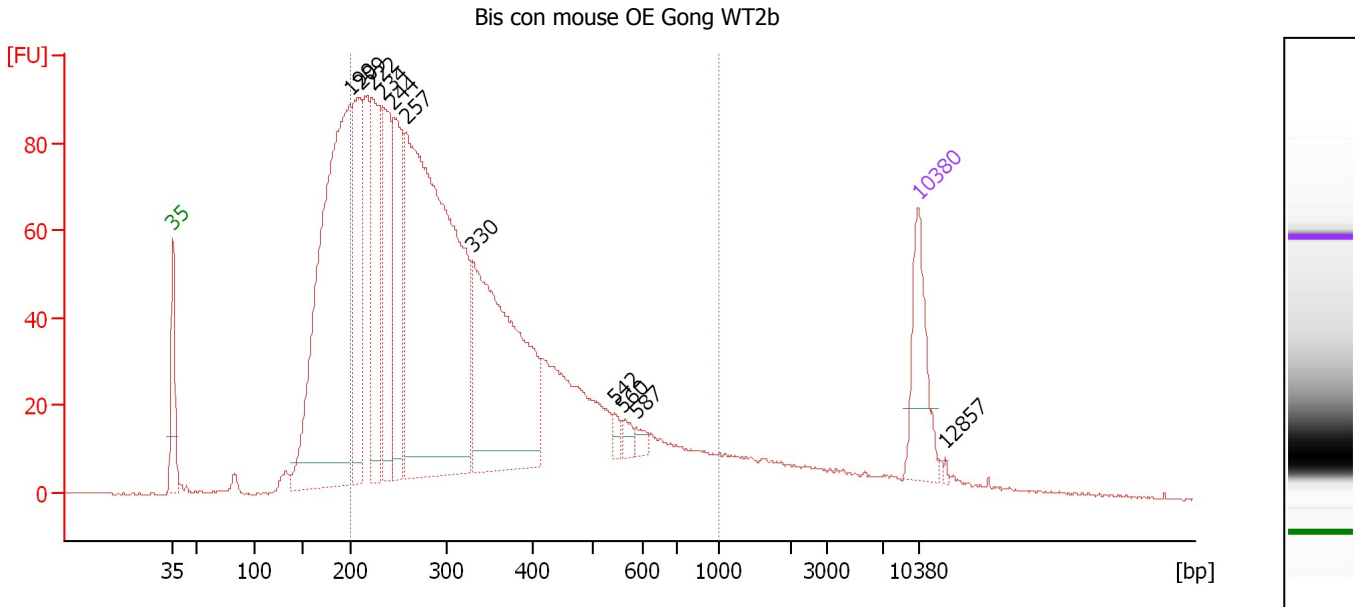
Region table for sample 3 : Bis con mouse OE Gong WT2a

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	337	1,000	1,950.2	14,300.7	76	39.7	2,738.36	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Bis con mouse OE Gong WT2b

Number of peaks found: 11 Corr. Area 1: 2,097.4
 Noise: 0.3

Peak table for sample 4 : Bis con mouse OE Gong WT2b

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	199	778.63	5,928.6		59.62
3	209	218.17	1,580.9		60.53
4	222	208.51	1,423.0		61.68
5	234	186.24	1,206.9		62.73
6	244	194.41	1,204.8		63.68
7	257	911.42	5,364.8		64.83
8	330	448.36	2,056.6		71.09
9	542	11.05	30.9		84.41
10	560	12.18	33.0		85.21
11	587	11.12	28.7		86.46
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,857	0.00	0.0		115.50

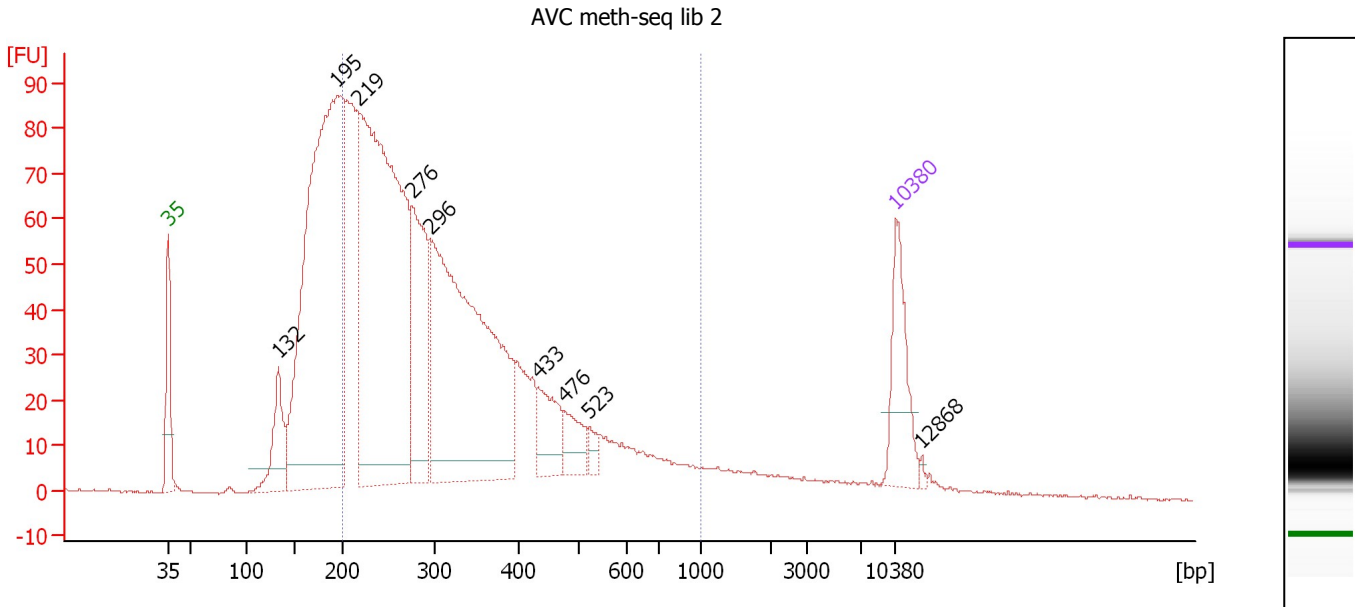
Region table for sample 4 : Bis con mouse OE Gong WT2b

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	341	1,000	2,097.4	15,298.1	75	40.7	2,945.77	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AVC meth-seq lib 2

Number of peaks found: 9 Corr. Area 1: 1,768.3
 Noise: 0.2

Peak table for sample 5 : AVC meth-seq 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	132	98.92	1,131.3		53.57
3	195	948.75	7,369.3		59.27
4	219	910.64	6,311.8		61.37
5	276	225.58	1,237.5		66.50
6	296	654.78	3,354.3		68.25
7	433	67.61	236.3		78.67
8	476	42.69	136.0		81.08
9	523	12.71	36.8		83.54
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,868	0.00	0.0		115.51

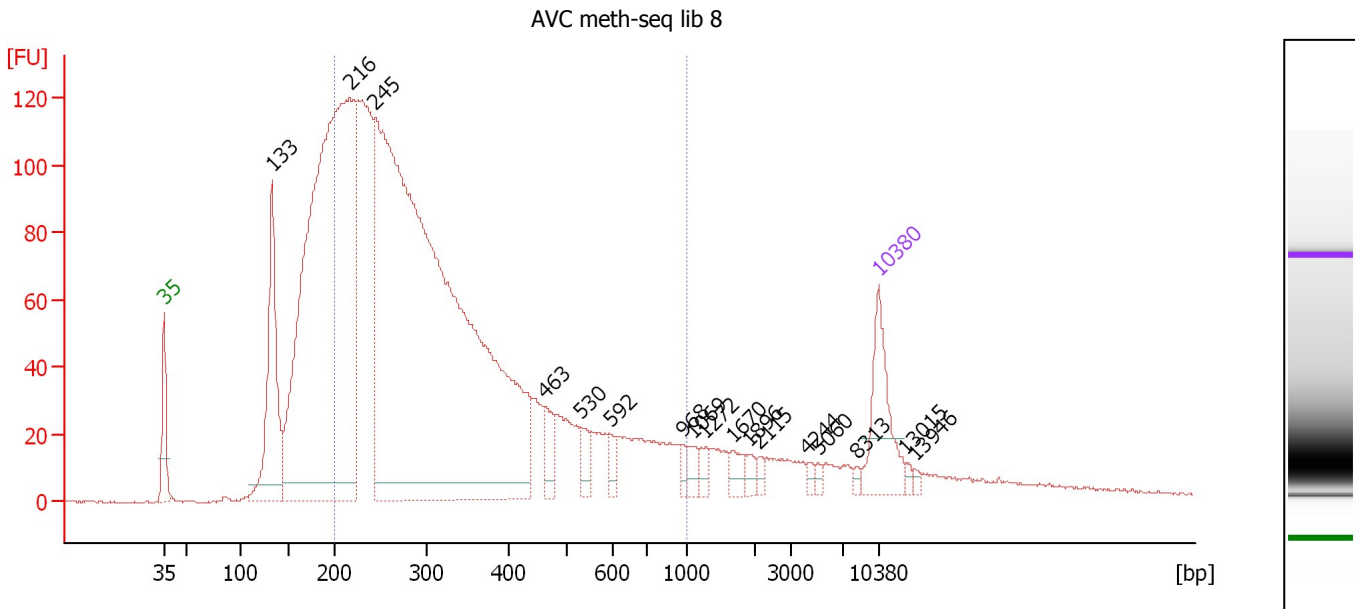
Region table for sample 5 : AVC meth-seq lib 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	331	1,000	1,768.3	13,175.0	70	39.5	2,493.91	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AVC meth-seq lib 8

Number of peaks found: 17 Corr. Area 1: 2,552.2
 Noise: 0.2

Peak table for sample 6 : AVC meth-seq lib 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	133	262.22	2,991.0		53.60
3	216	1,359.89	9,520.2		61.18
4	245	2,017.20	12,497.1		63.69
5	463	32.31	105.8		80.35
6	530	23.50	67.2		83.85
7	592	14.05	36.0		86.67
8	968	9.92	15.5		93.83
9	1,069	15.07	21.4		94.72
10	1,272	12.07	14.4		96.07
11	1,670	15.97	14.5		98.74
12	1,896	9.83	7.9		100.25
13	2,115	6.43	4.6		101.35
14	4,244	5.19	1.9		106.05
15	5,060	4.70	1.4		107.10
16	8,313	4.52	0.8		110.91
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,015	0.00	0.0		115.66
19	13,946	0.00	0.0		116.60

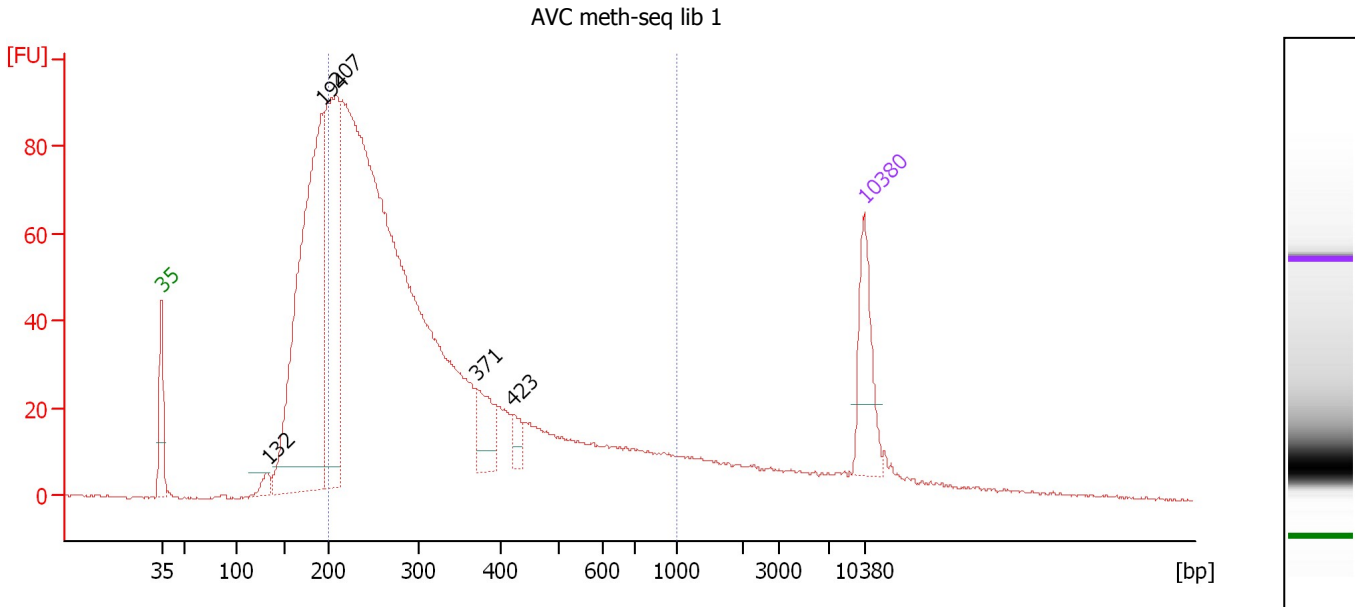
Region table for sample 6 : AVC meth-seq lib 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	340	1,000	2,552.2	16,080.9	70	43.1	3,060.86	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AVC meth-seq lib 1

Number of peaks found: 5 Corr. Area 1: 1,592.9
 Noise: 0.3

Peak table for sample 7 : AVC meth-seq lib 1

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	132	19.97	228.5		53.57
3	194	714.29	5,587.0		59.15
4	207	397.88	2,907.8		60.37
5	371	68.82	281.1		74.39
6	423	21.37	76.6		78.05
7	10,380	75.00	10.9	Upper Marker	113.00

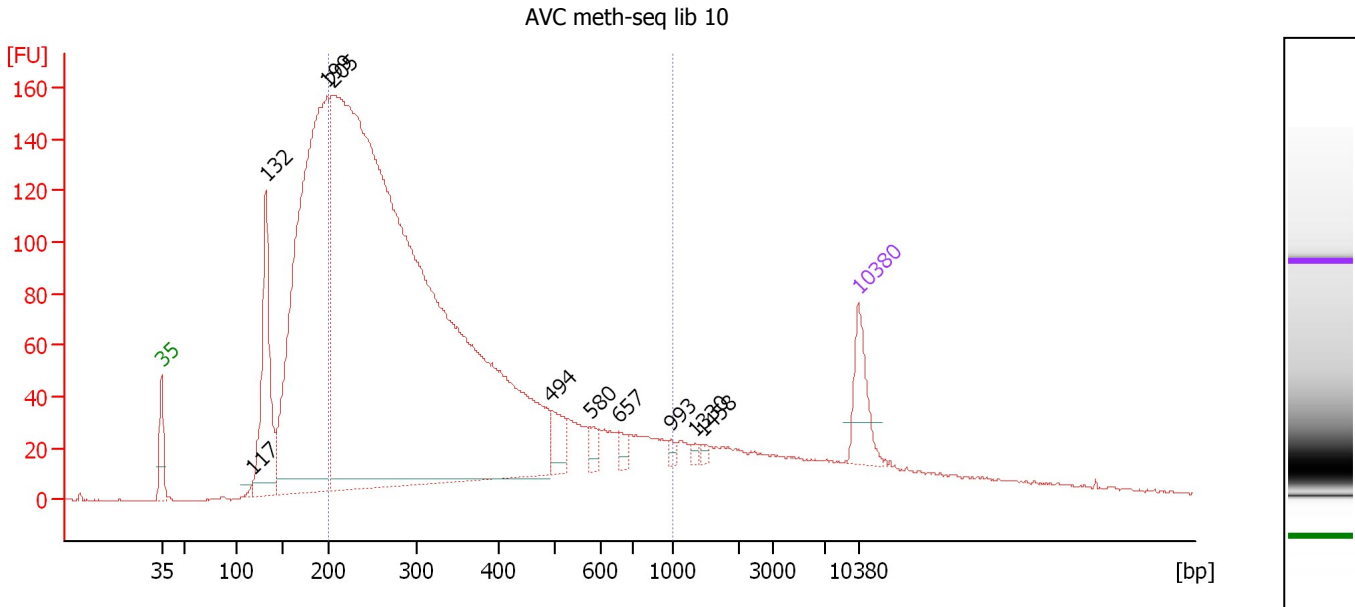
Region table for sample 7 : AVC meth-seq lib 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	334	1,000	1,592.9	13,362.0	70	44.6	2,481.01	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AVC meth-seq lib 10

Number of peaks found: 10 Corr. Area 1: 3,192.0
 Noise: 0.2

Peak table for sample 8 : AVC meth-seq lib 10

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	117	8.92	115.4		52.15
3	132	369.36	4,253.1		53.49
4	199	1,559.96	11,899.9		59.59
5	205	4,774.58	35,357.0		60.13
6	494	56.81	174.3		82.12
7	580	23.98	62.6		86.13
8	657	21.29	49.1		88.86
9	993	8.83	13.5		94.16
10	1,330	6.84	7.8		96.46
11	1,458	6.84	7.1		97.32
12	10,380	75.00	10.9	Upper Marker	113.00

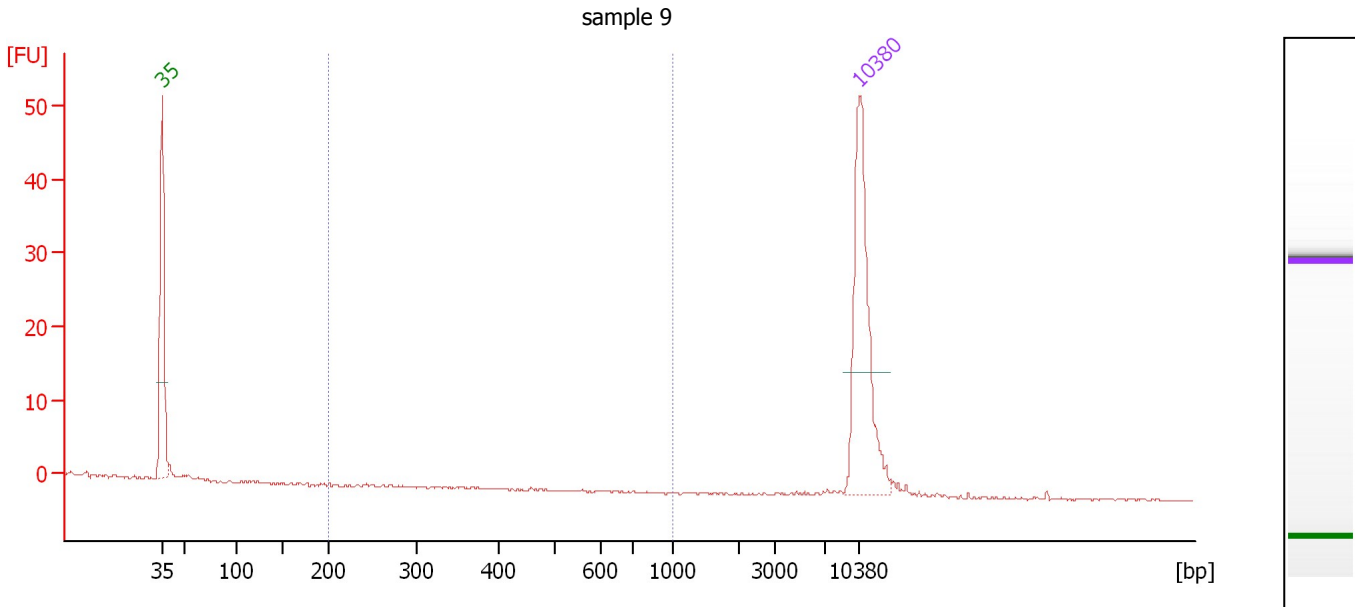
Region table for sample 8 : AVC meth-seq lib 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	346	1,000	3,192.0	24,651.2	67	44.1	4,713.53	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 9 : sample 9

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

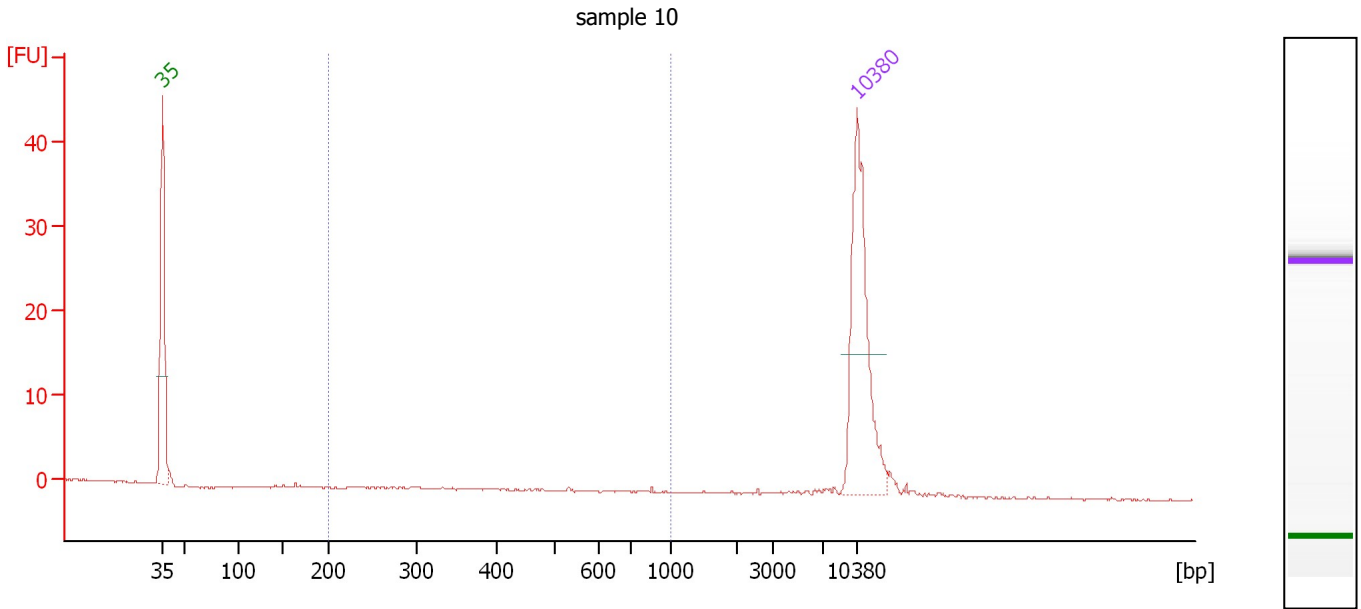
Region table for sample 9 : sample 9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	0	1,000	0.0	0.0	0	0.0	0.00	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

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

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/ μ l]	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

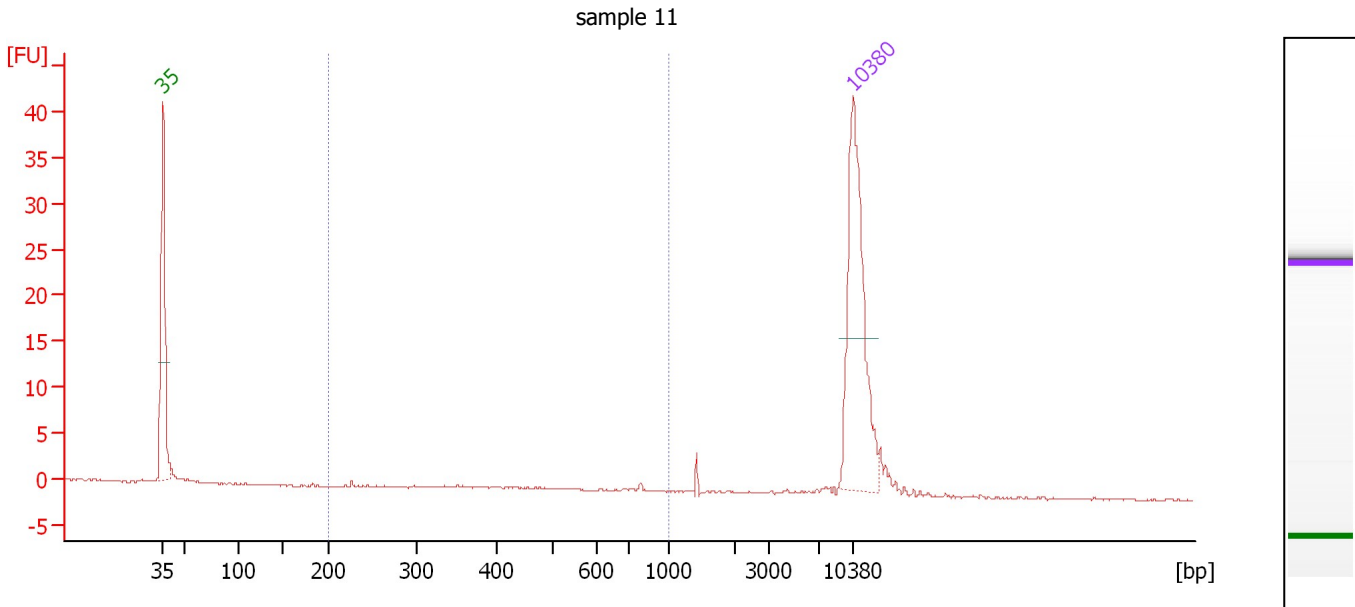
Region table for sample 10 : sample 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
200	785	1,000	0.1	0.3	2	16.6	0.15	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Corr. Area 1: 0.4
 Noise: 0.1

Peak table for sample 11 : sample 11

Pea k	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

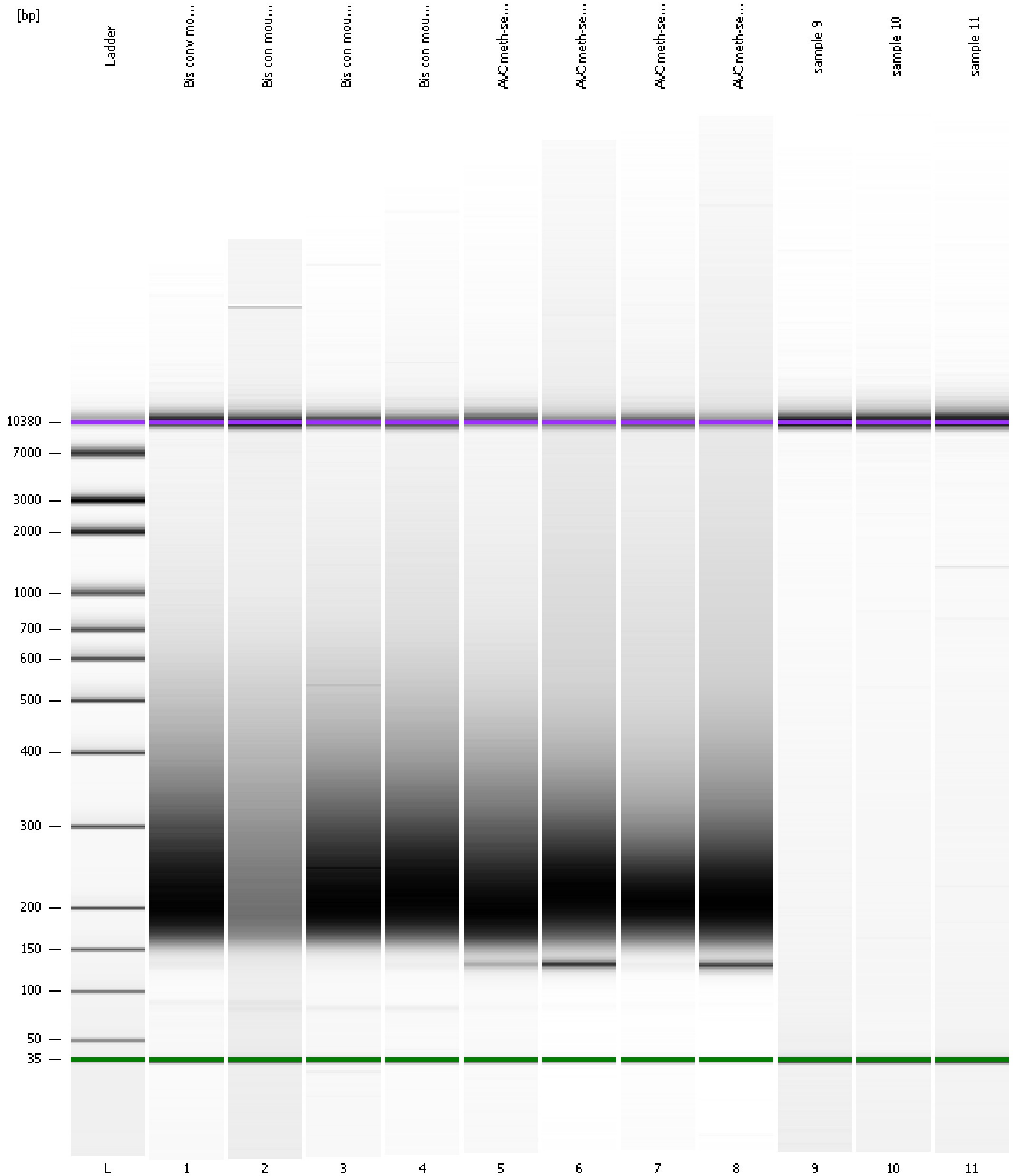
Region table for sample 11 : sample 11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
200	584	1,000	0.4	2.6	4	43.2	0.65	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
Modified: 4/10/2015 5:04:24 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad

Created: 4/10/2015 4:23:04 PM
 Modified: 4/10/2015 5:04:24 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		4/10/2015 5:04:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-10\2015-04-10_002.xad)		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/10/2015 4:23:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1