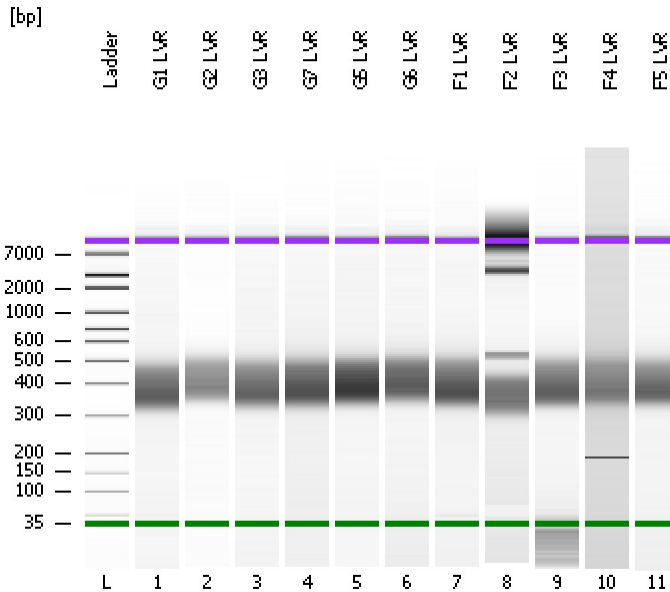


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

Created: 4/25/2017 4:31:09 PM
Modified: 4/25/2017 5:15:12 PM

Electrophoresis File Run Summary



Instrument Information:

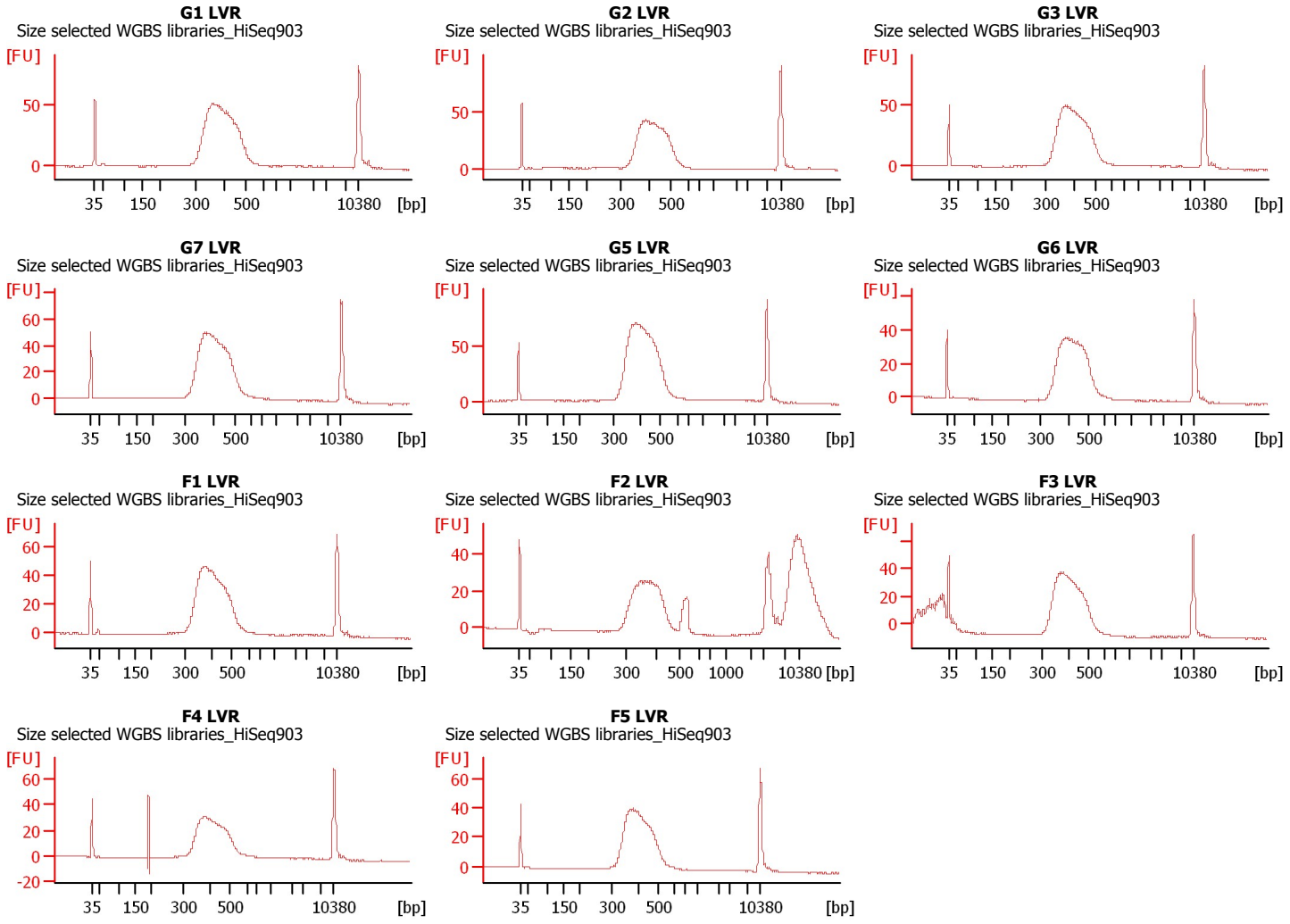
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

Created: 4/25/2017 4:31:09 PM
Modified: 4/25/2017 5:15:12 PM

Electrophoresis File Run Summary (Chip Summary)

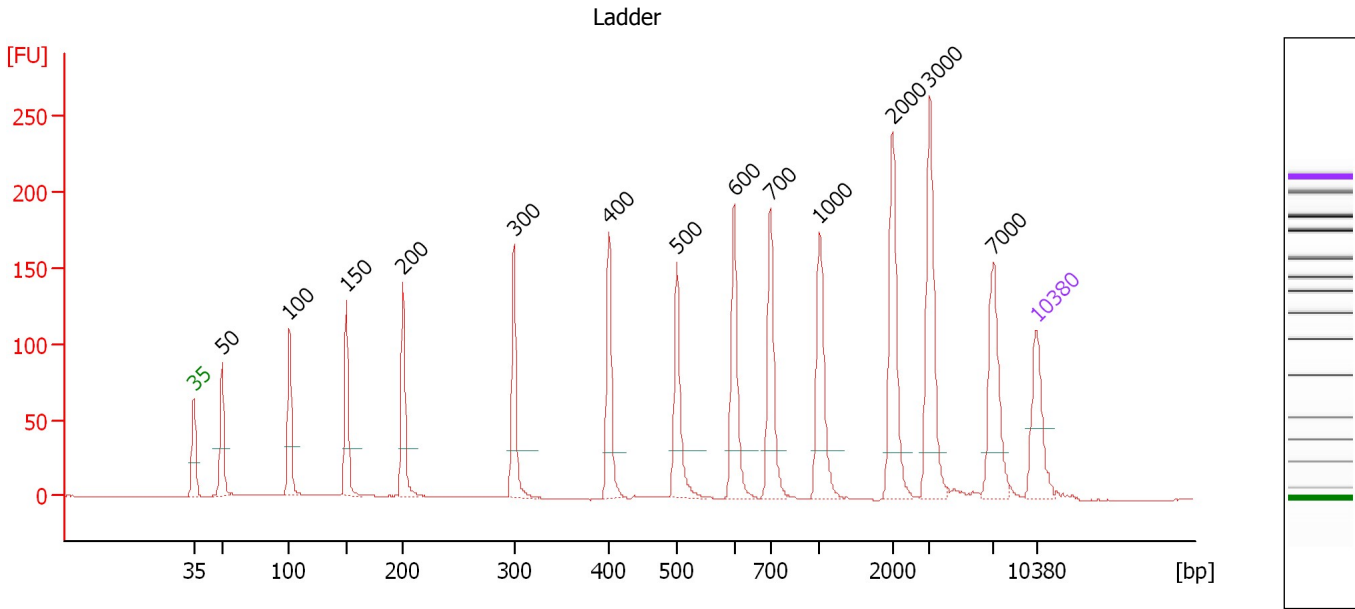
Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G1 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
G2 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
G3 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
G7 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
G5 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
G6 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
F1 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
F2 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
F3 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
F4 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
F5 LVR	Size selected WGBS libraries_HiSeq903	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #				Reagent Kit Lot #		

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

Created: 4/25/2017 4:31:09 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

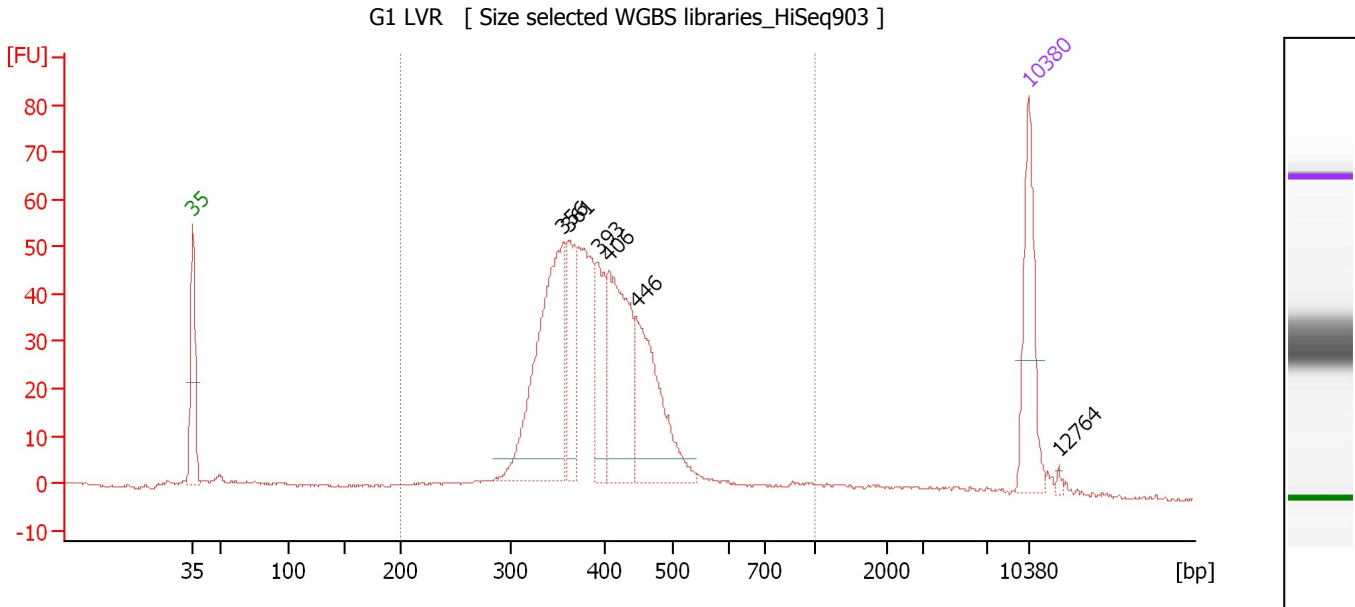
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.67
5	200	150.00	1,136.4	Ladder Peak	60.37
6	300	150.00	757.6	Ladder Peak	69.58
7	400	150.00	568.2	Ladder Peak	77.47
8	500	150.00	454.5	Ladder Peak	83.14
9	600	150.00	378.8	Ladder Peak	87.88
10	700	150.00	324.7	Ladder Peak	90.89
11	1,000	150.00	227.3	Ladder Peak	95.01
12	2,000	150.00	113.6	Ladder Peak	101.04
13	3,000	150.00	75.8	Ladder Peak	104.14
14	7,000	150.00	32.5	Ladder Peak	109.46
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : G1 LVR

Number of peaks found: 6 Corr. Area 1: 748.3
 Noise: 0.3

Peak table for sample 1 : G1 LVR

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	356	273.02	1,160.8		74.03
3	361	89.35	374.5		74.43
4	393	78.21	301.4		76.93
5	406	169.78	633.2		77.82
6	446	154.95	525.9		80.10
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,764	0.00	0.0		115.50

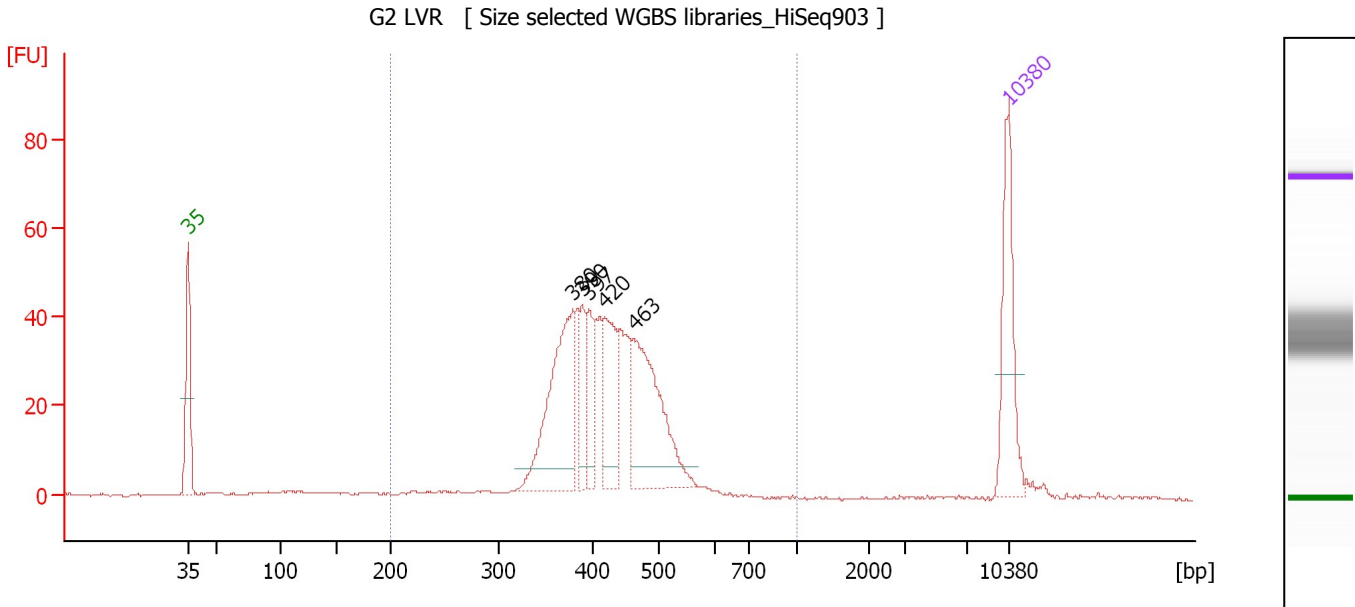
Region table for sample 1 : G1 LVR

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	403	748.3	4,087.4	1,040.35	92	21.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : G2 LVR

Number of peaks found: 5 Corr. Area 1: 560.7
 Noise: 0.3

Peak table for sample 2 : G2 LVR

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	380	177.41	708.1		75.86
3	390	41.76	162.2		76.68
4	397	46.10	176.0		77.23
5	420	79.64	287.4		78.59
6	463	156.42	511.7		81.05
7	10,380	75.00	10.9	Upper Marker	113.00

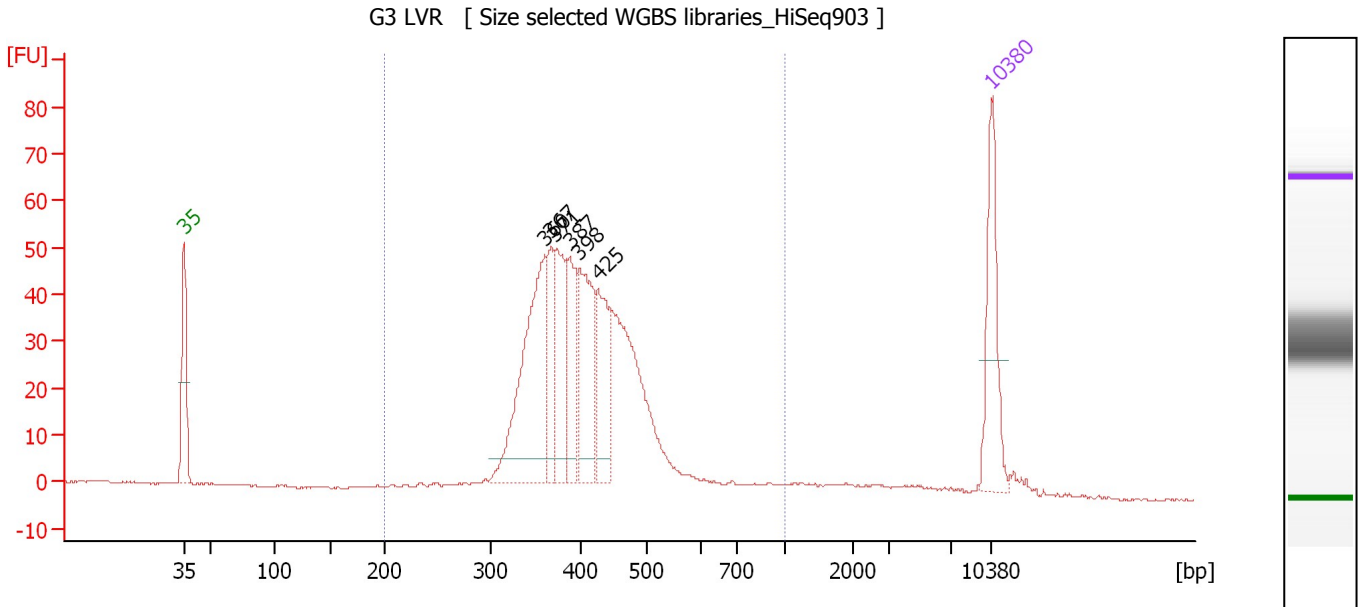
Region table for sample 2 : G2 LVR

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	423	560.7	2,631.1	712.00	95	14.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : G3 LVR

Number of peaks found: 6 Corr. Area 1: 707.9
 Noise: 0.2

Peak table for sample 3 : G3 LVR

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	360	223.64	942.3		74.28
3	367	58.96	243.7		74.83
4	371	97.26	397.5		75.16
5	387	77.88	304.8		76.45
6	398	114.68	436.9		77.28
7	425	85.11	303.3		78.90
8	10,380	75.00	10.9	Upper Marker	113.00

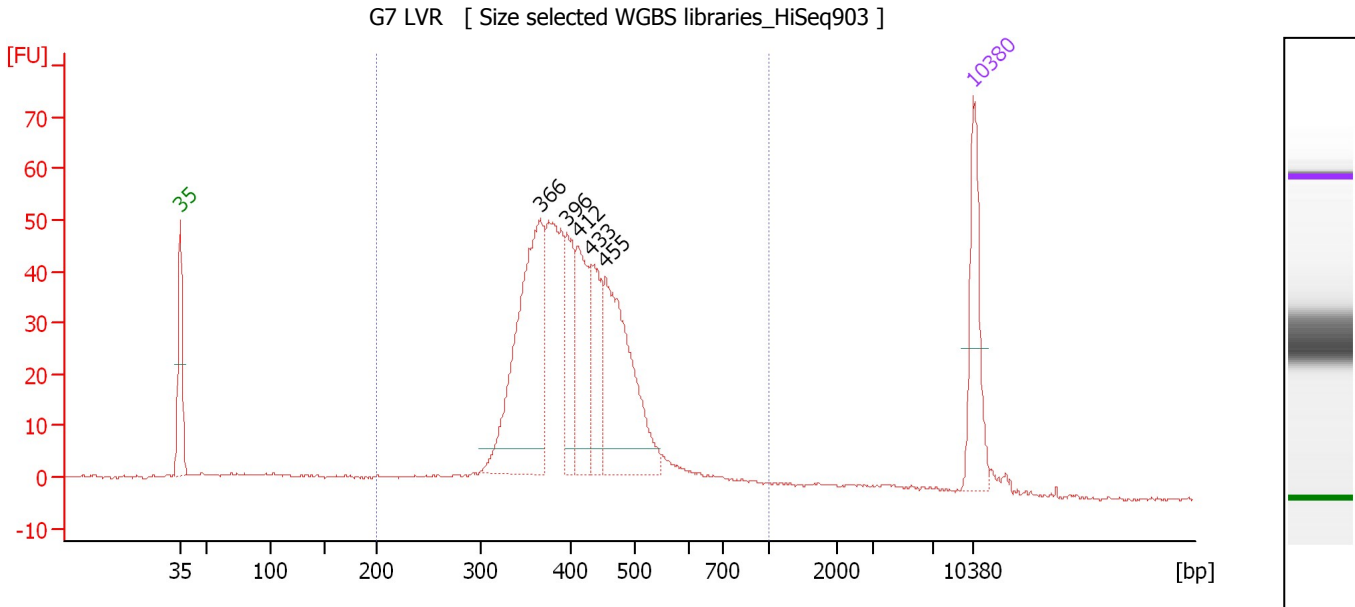
Region table for sample 3 : G3 LVR

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	415	707.9	3,761.2	990.42	94	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : G7 LVR

Number of peaks found: 5 Corr. Area 1: 743.5
 Noise: 0.2

Peak table for sample 4 : G7 LVR

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	366	304.25	1,260.0		74.78
3	396	88.45	338.7		77.13
4	412	116.76	429.1		78.16
5	433	77.72	271.9		79.34
6	455	218.97	729.8		80.57
7	10,380	75.00	10.9	Upper Marker	113.00

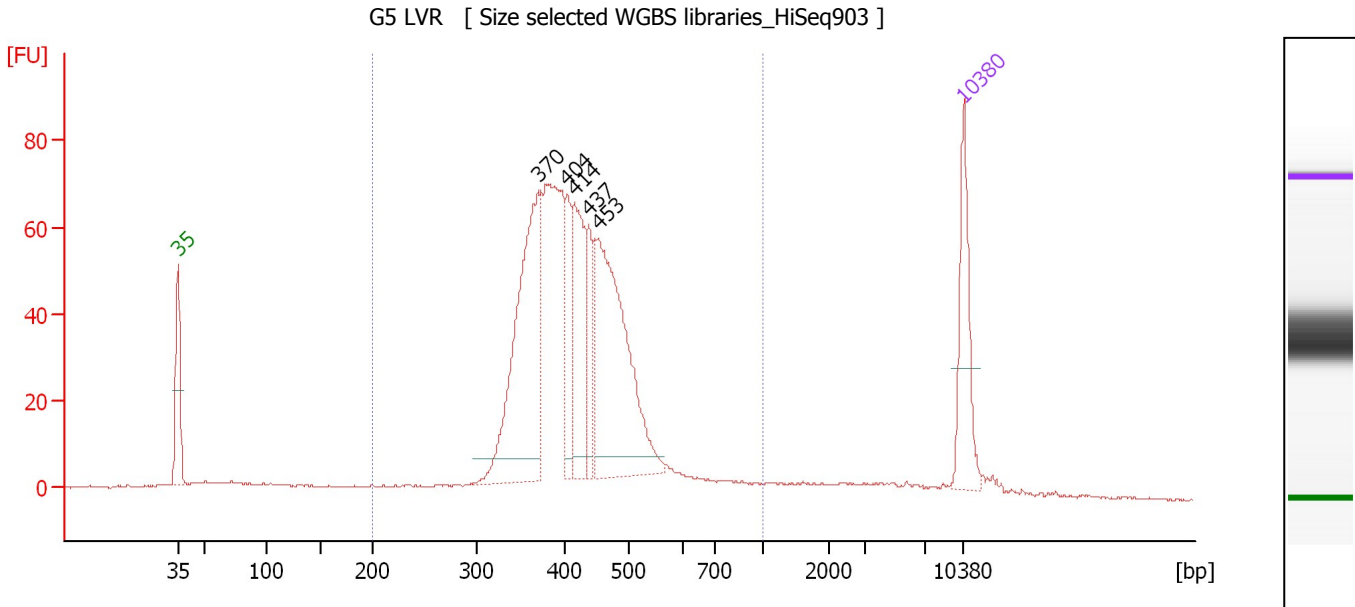
Region table for sample 4 : G7 LVR

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	417	743.5	4,421.7	1,160.50	91	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : G5 LVR

Number of peaks found: 5 Corr. Area 1: 988.6
 Noise: 0.2

Peak table for sample 5 : G5 LVR

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	370	324.57	1,329.1		75.10
3	404	70.99	266.0		77.72
4	414	133.10	486.7		78.28
5	437	65.47	227.0		79.57
6	453	311.41	1,041.8		80.47
7	10,380	75.00	10.9	Upper Marker	113.00

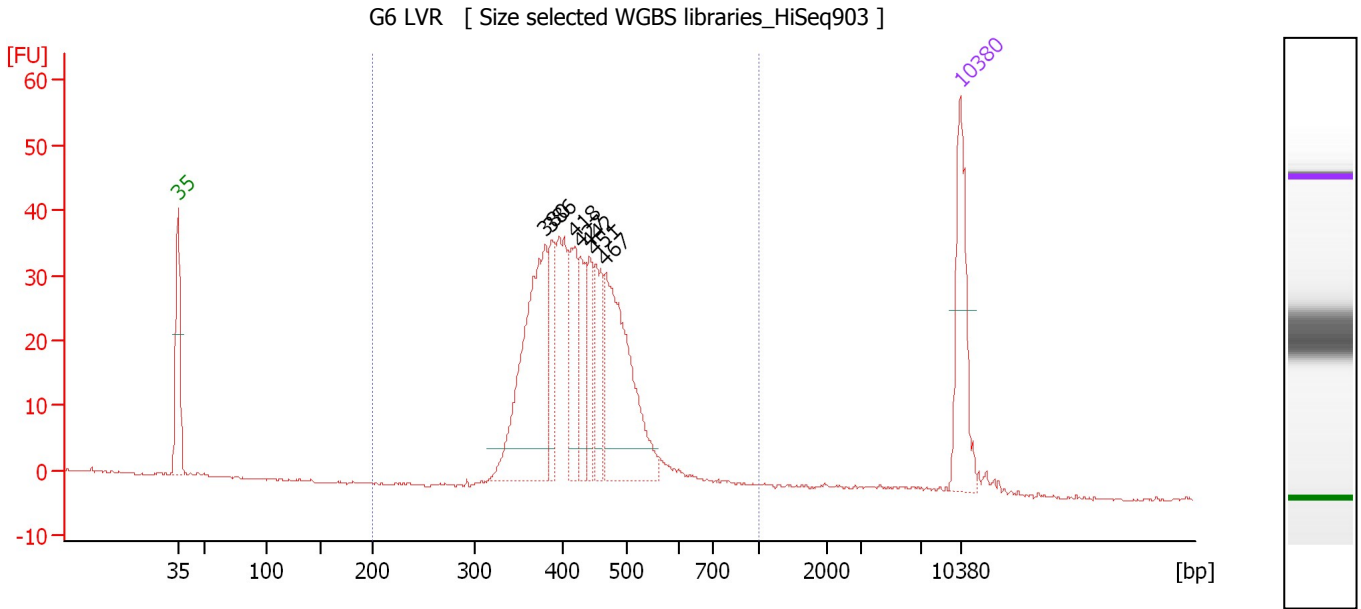
Region table for sample 5 : G5 LVR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	425	988.6	5,020.5	1,347.32	89	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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 Modified: 4/25/2017 5:15:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : G6 LVR

Number of peaks found: 7 Corr. Area 1: 485.8
 Noise: 0.2

Peak table for sample 6 : G6 LVR

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	380	234.76	936.5		75.88
3	386	56.49	221.5		76.40
4	418	80.52	291.7		78.50
5	427	49.97	177.1		79.03
6	442	52.81	181.1		79.84
7	451	61.08	205.2		80.36
8	467	199.47	647.1		81.27
9	10,380	75.00	10.9	Upper Marker	113.00

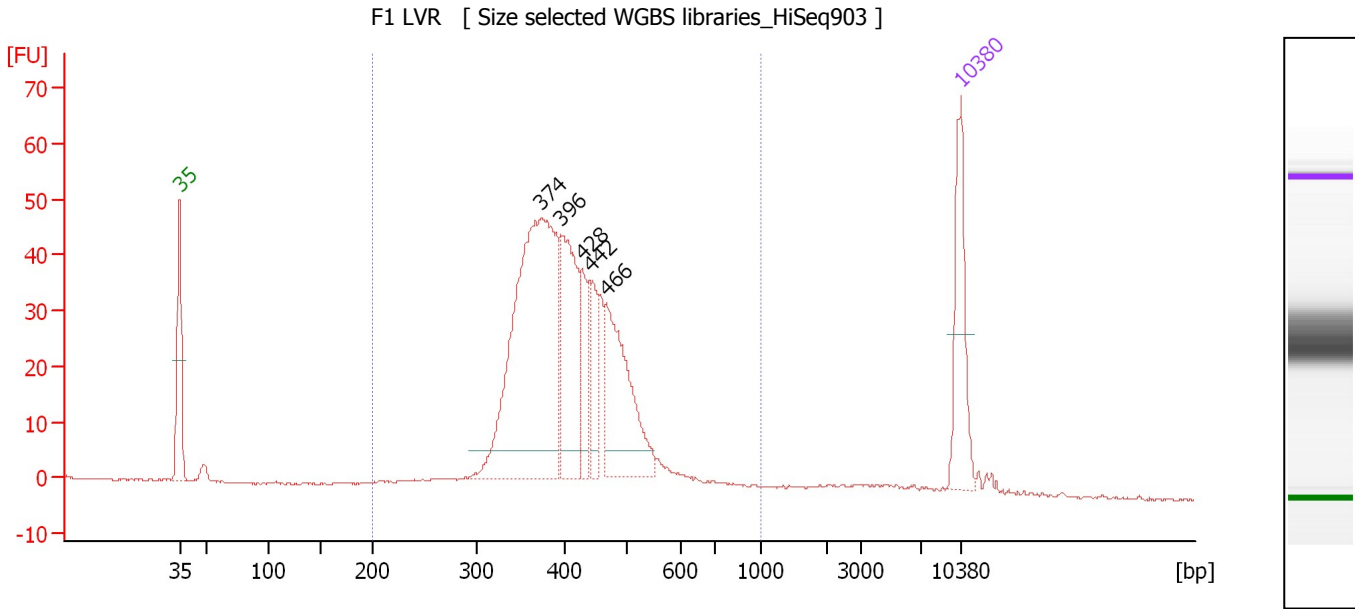
Region table for sample 6 : G6 LVR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	432	485.8	3,202.7	889.44	97	16.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : F1 LVR

Number of peaks found: 5 Corr. Area 1: 663.0
 Noise: 0.2

Peak table for sample 7 : F1 LVR

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	374	477.78	1,937.0		75.40
3	396	160.71	615.6		77.12
4	428	61.70	218.3		79.08
5	442	50.97	174.8		79.84
6	466	161.55	525.0		81.23
7	10,380	75.00	10.9	Upper Marker	113.00

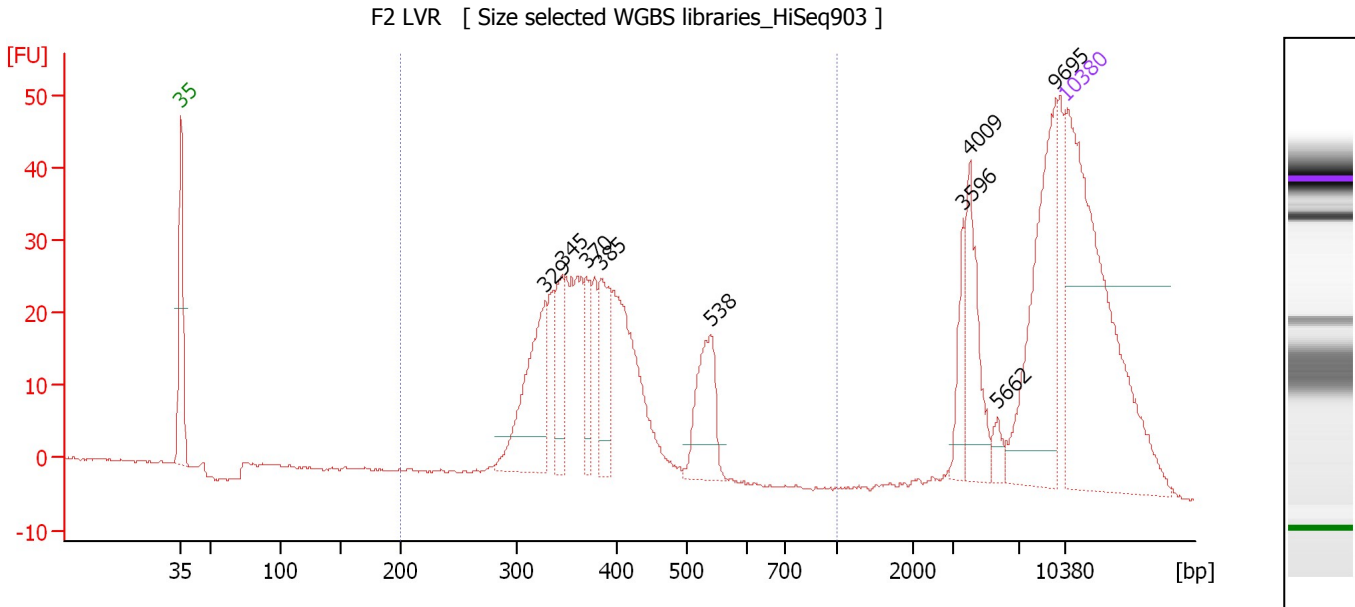
Region table for sample 7 : F1 LVR

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	416	663.0	4,131.9	1,090.87	95	19.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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 Modified: 4/25/2017 5:15:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : F2 LVR

Number of peaks found: 9 Corr. Area 1: 412.4
 Noise: 0.2

Peak table for sample 8 : F2 LVR

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	329	41.69	192.1		71.85
3	345	17.02	74.7		73.16
4	370	12.43	51.0		75.06
5	385	21.81	85.9		76.25
6	538	24.23	68.2		84.95
7	3,596	9.18	3.9		104.93
8	4,009	20.42	7.7		105.48
9	5,662	3.27	0.9		107.68
10	9,695	44.33	6.9		112.28
11	10,380	75.00	10.9	Upper Marker	113.00

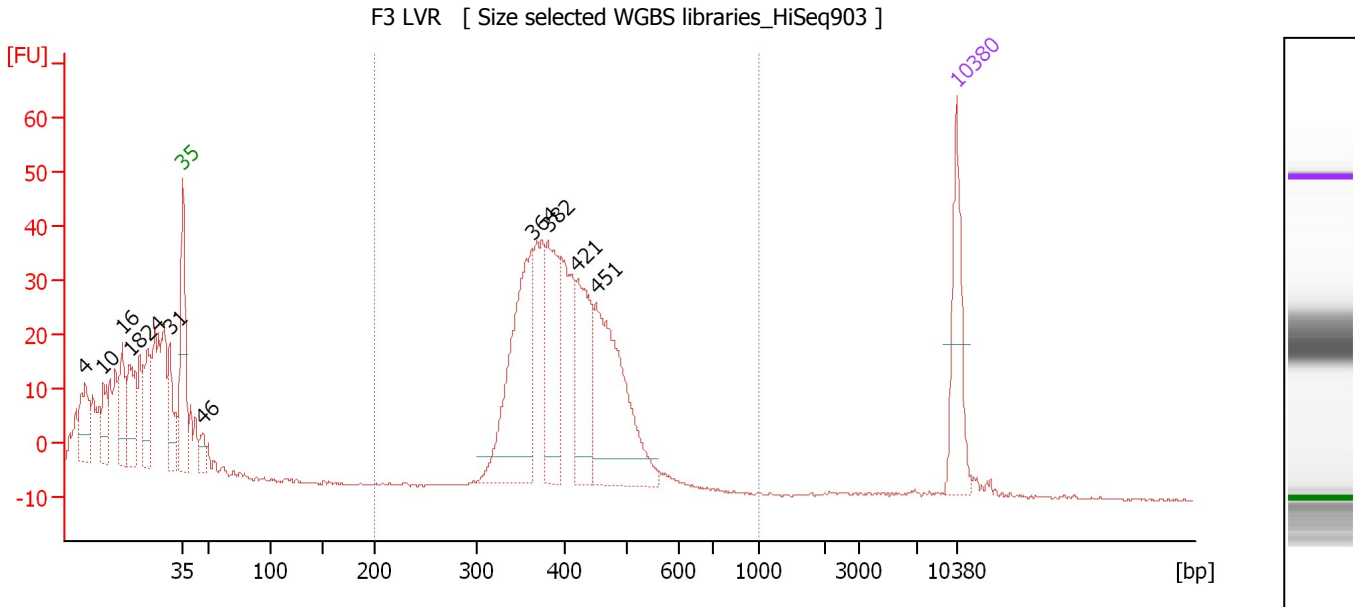
Region table for sample 8 : F2 LVR

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	389	412.4	955.8	237.70	64	16.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : F3 LVR

Number of peaks found: 11 Corr. Area 1: 459.3
 Noise: 0.2

Peak table for sample 9 : F3 LVR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	0.00	0.0		34.18
2	10	0.00	0.0		35.82
3	16	0.00	0.0		37.50
4	18	0.00	0.0		38.18
5	24	0.00	0.0		39.82
6	31	0.00	0.0		41.79
7	35	125.00	5,411.3	Lower Marker	43.00
8	46	23.95	782.3		44.78
9	364	247.04	1,028.4		74.63
10	382	142.30	564.9		76.02
11	421	123.60	444.5		78.67
12	451	235.51	791.2		80.36
13	10,380	75.00	10.9	Upper Marker	113.00

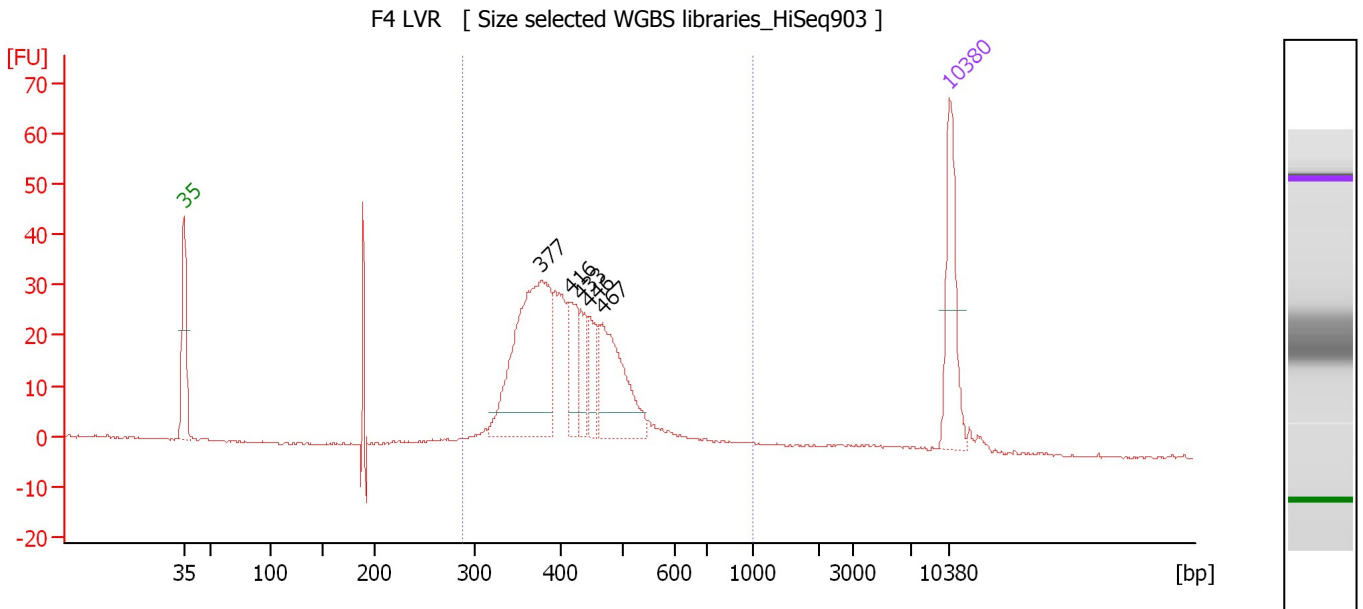
Region table for sample 9 : F3 LVR

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	407	459.3	3,073.9	812.22	67	11.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : F4 LVR

Number of peaks found: 5 Corr. Area 1: 440.1
 Noise: 0.2

Peak table for sample 10 : F4 LVR

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	377	267.26	1,073.1		75.68
3	416	56.03	204.2		78.37
4	433	36.99	129.4		79.34
5	446	41.31	140.4		80.07
6	467	120.76	391.4		81.29
7	10,380	75.00	10.9	Upper Marker	113.00

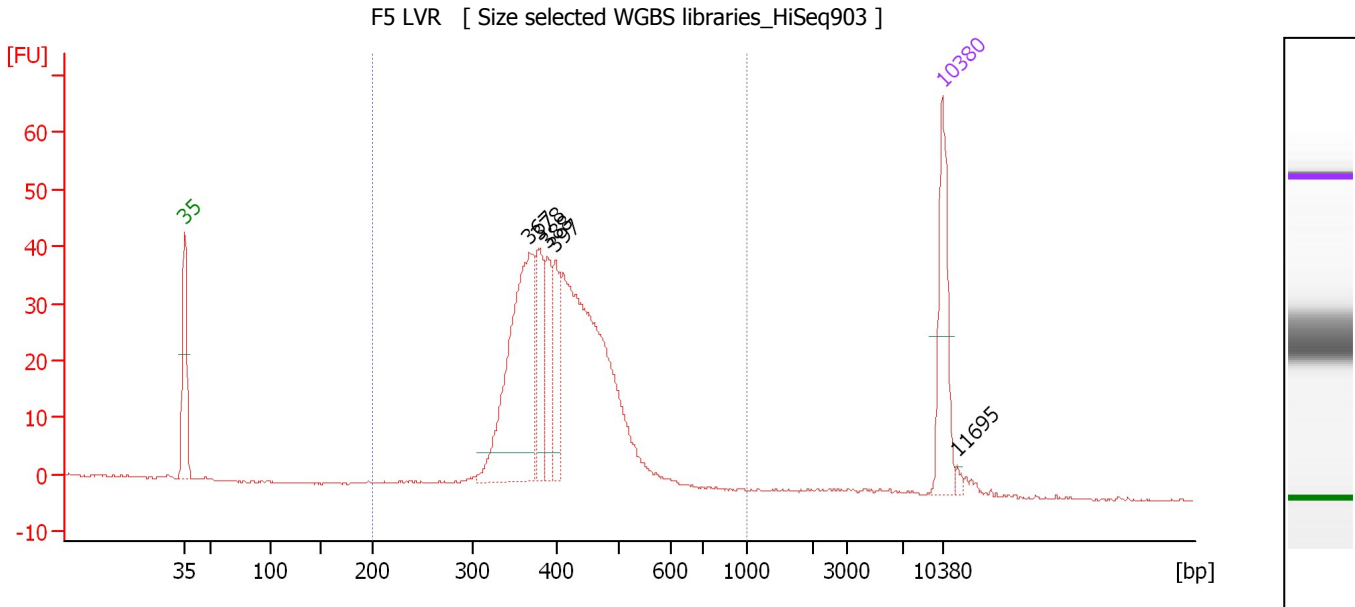
Region table for sample 10 : F4 LVR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
289	1,000	428	440.1	2,648.0	719.23	91	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : F5 LVR

Number of peaks found: 5 Corr. Area 1: 513.7
 Noise: 0.1

Peak table for sample 11 : F5 LVR

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	367	258.37	1,066.5		74.87
3	378	73.95	296.2		75.76
4	388	69.92	273.3		76.50
5	397	58.29	222.4		77.24
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,695	0.00	0.0		114.38

Region table for sample 11 : F5 LVR

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	413	513.7	3,407.4	905.36	97	15.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-25\2017-04-25_004.xad

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Gel Image

