

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
Modified: 1/23/2017 12:03:10 PM

Electrophoresis File Run Summary

Instrument Information:

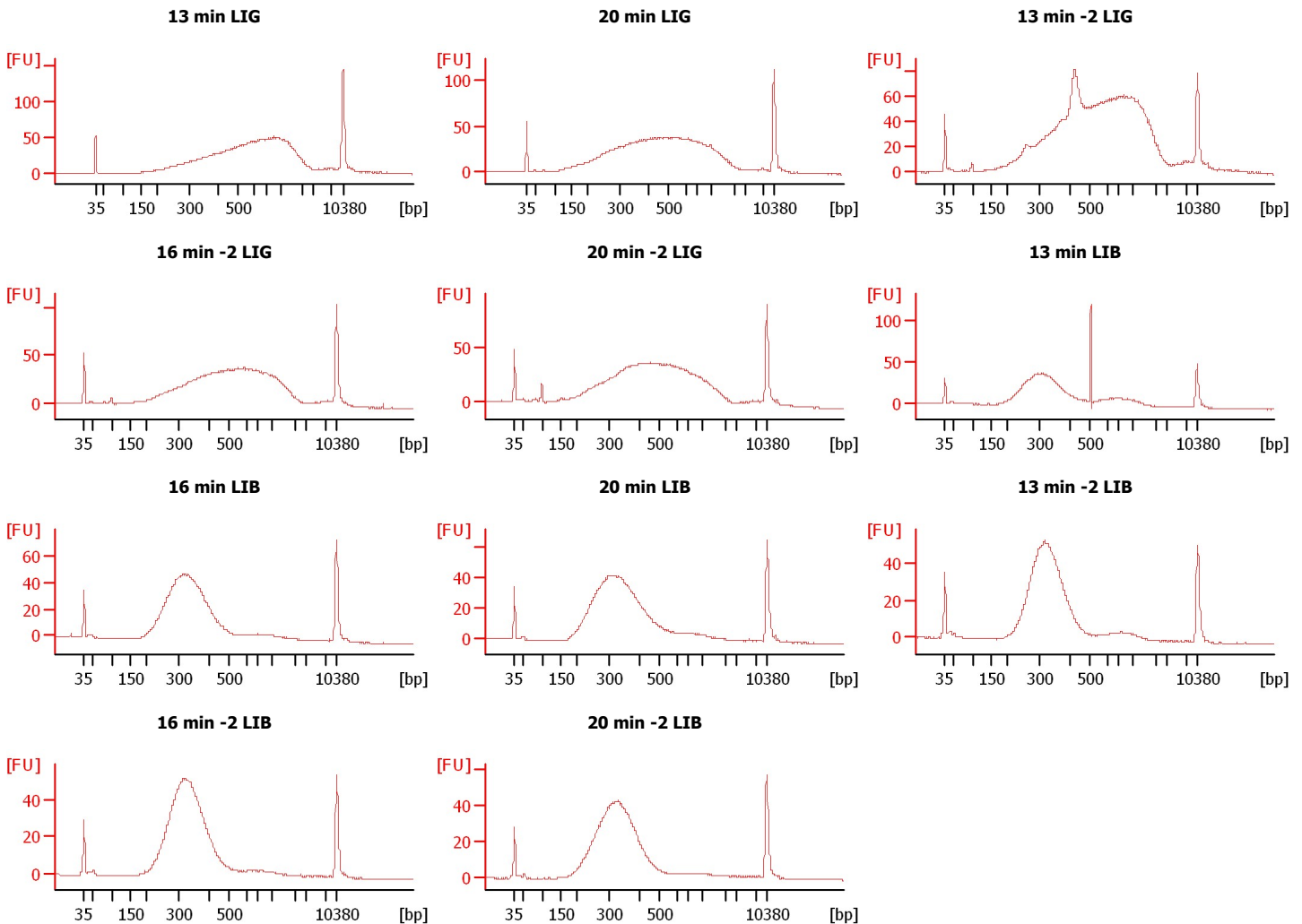
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
13 min LIG		<input type="checkbox"/>	✓			
20 min LIG		<input type="checkbox"/>	✓			
13 min -2 LIG		<input type="checkbox"/>	✓			
16 min -2 LIG		<input type="checkbox"/>	✓			
20 min -2 LIG		<input type="checkbox"/>	✓			
13 min LIB		<input type="checkbox"/>	✓			
16 min LIB		<input type="checkbox"/>	✓			
20 min LIB		<input type="checkbox"/>	✓			
13 min -2 LIB		<input type="checkbox"/>	✓			
16 min -2 LIB		<input type="checkbox"/>	✓			
20 min -2 LIB		<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

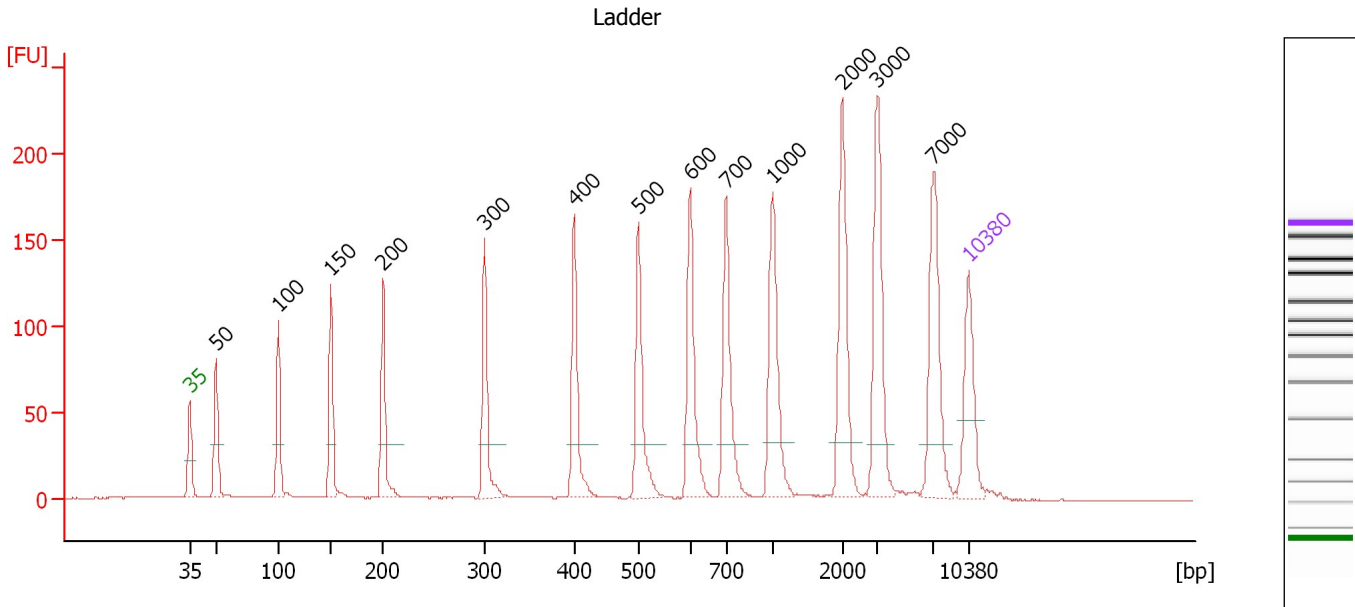
Ladder

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: 0.2

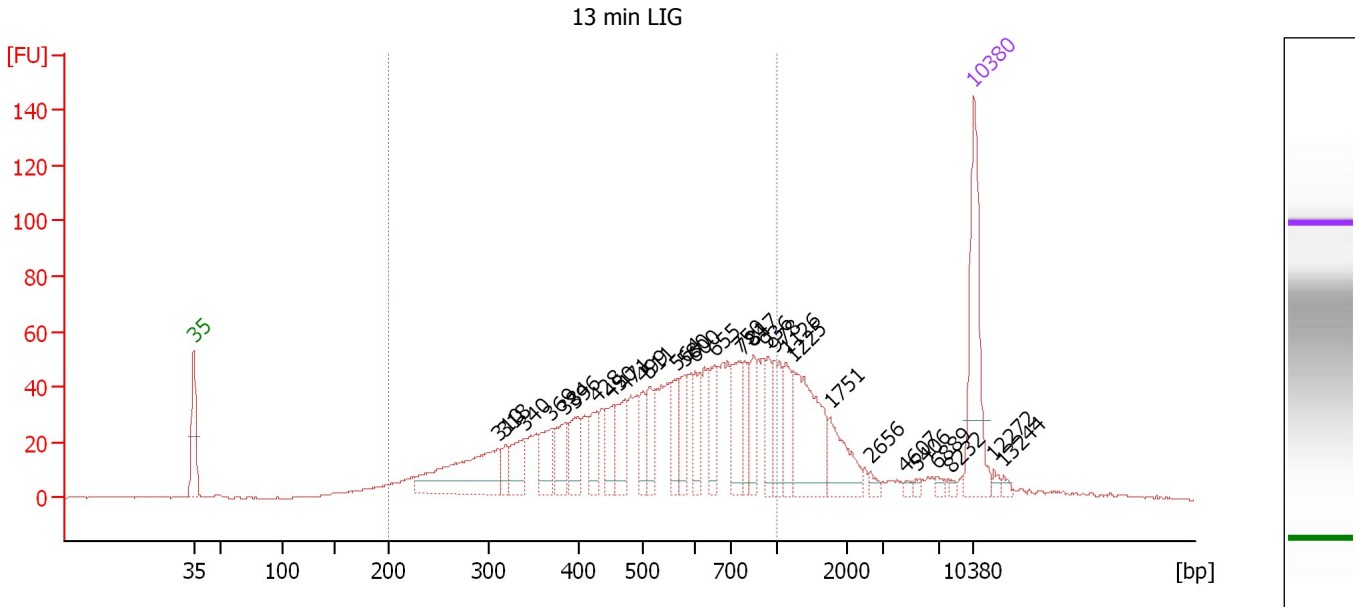
Peak table for Ladder

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	45.40
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.39
6	300	150.00	757.6	Ladder Peak	69.50
7	400	150.00	568.2	Ladder Peak	77.54
8	500	150.00	454.5	Ladder Peak	83.34
9	600	150.00	378.8	Ladder Peak	87.99
10	700	150.00	324.7	Ladder Peak	91.20
11	1,000	150.00	227.3	Ladder Peak	95.37
12	2,000	150.00	113.6	Ladder Peak	101.64
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 13 min LIG

Number of peaks found: 30 Corr. Area 1: 1,241.1
 Noise: 0.3

Peak table for sample 1 : 13 min LIG

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	310	109.28	533.7		70.32
3	318	14.55	69.3		70.94
4	340	33.68	150.1		72.71
5	369	32.22	132.5		75.01
6	384	31.40	123.9		76.25
7	396	33.30	127.5		77.21
8	428	26.22	92.8		79.17
9	450	26.10	88.0		80.42
10	471	38.18	122.8		81.66
11	499	22.33	67.8		83.29
12	511	26.18	77.6		83.86
13	564	23.00	61.8		86.30
14	580	32.04	83.7		87.07
15	600	30.17	76.2		87.98
16	655	33.81	78.2		89.75
17	750	39.81	80.4		91.90
18	781	24.32	47.2		92.33
19	847	27.57	49.3		93.24
20	936	22.68	36.7		94.48
21	978	31.53	48.9		95.06
22	1,126	26.38	35.5		96.16
23	1,225	81.81	101.2		96.78
24	1,751	35.79	31.0		100.08
25	2,656	4.50	2.6		103.72

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Electropherogram Summary Continued ...

... Peak table for sample 1 : 13 min LIG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,607	2.74	0.9		106.83
27	5,406	2.65	0.7		107.83
28	6,889	3.89	0.9		109.70
29	8,232	2.42	0.4		110.99
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,272	0.00	0.0		114.77
32	13,244	0.00	0.0		115.68

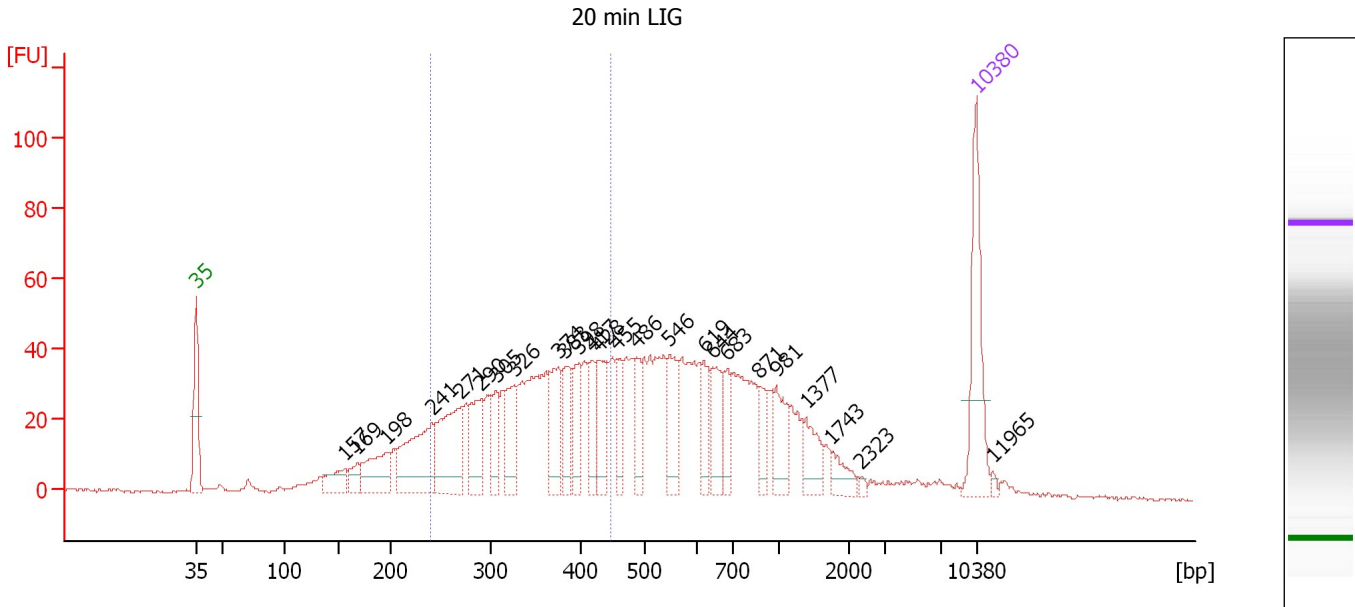
Region table for sample 1 : 13 min LIG

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	546	1,241.1	3,394.1	999.24	77	35.7

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 20 min LIG

Number of peaks found: 25 Corr. Area 1: 676.2
 Noise: 0.4

Peak table for sample 2 : 20 min LIG

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	157	34.33	330.3		56.40
3	169	20.21	181.5		57.45
4	198	61.18	468.9		60.18
5	241	114.26	717.6		64.15
6	271	106.96	598.7		66.83
7	290	59.66	312.1		68.55
8	305	40.94	203.1		69.94
9	326	53.48	248.8		71.56
10	374	55.69	225.4		75.49
11	383	45.52	180.2		76.16
12	398	44.85	170.7		77.40
13	417	37.73	137.0		78.55
14	428	47.65	168.6		79.17
15	455	32.41	107.9		80.75
16	486	31.87	99.4		82.52
17	546	49.97	138.6		85.49
18	619	28.13	68.9		88.60
19	644	44.60	104.9		89.41
20	683	28.72	63.7		90.66
21	871	22.57	39.3		93.57
22	981	37.32	57.6		95.11
23	1,377	29.33	32.3		97.74
24	1,743	17.09	14.9		100.03
25	2,323	3.21	2.1		102.67

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Electropherogram Summary Continued ...**... Peak table for sample 2 : 20 min LIG**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	11,965	0.00	0.0		114.48

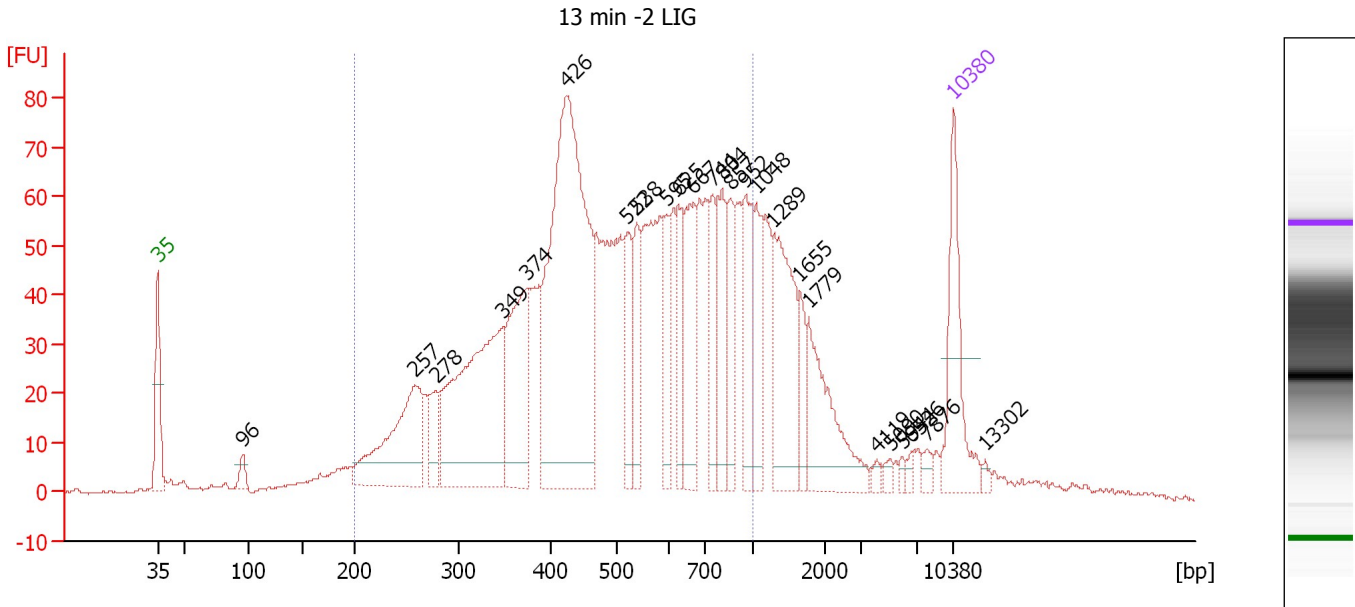
Region table for sample 2 : 20 min LIG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
240	445	345	676.2	3,633.9	794.14	41	16.4

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 13 min -2 LIG

Number of peaks found: 25 Corr. Area 1: 1,826.3
 Noise: 0.3

Peak table for sample 3 : 13 min -2 LIG

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	96	15.76	249.7		50.47
3	257	163.85	965.2		65.60
4	278	35.22	192.2		67.46
5	349	275.54	1,197.4		73.41
6	374	139.13	563.5		75.46
7	426	466.52	1,661.1		79.03
8	522	60.16	174.8		84.35
9	538	56.46	158.9		85.13
10	595	47.44	120.8		87.76
11	625	52.10	126.3		88.79
12	667	86.74	196.9		90.15
13	744	49.27	100.3		91.81
14	804	69.67	131.3		92.64
15	857	49.19	87.0		93.38
16	952	69.96	111.4		94.69
17	1,048	49.72	71.9		95.67
18	1,289	112.92	132.7		97.18
19	1,655	29.35	26.9		99.48
20	1,779	85.01	72.4		100.26
21	4,119	4.78	1.8		106.21
22	5,090	5.52	1.6		107.44
23	5,944	3.80	1.0		108.51
24	6,526	4.72	1.1		109.24
25	7,876	7.04	1.4		110.66

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Electropherogram Summary Continued ...

... Peak table for sample 3 : 13 min -2 LIG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	13,302	0.00	0.0		115.73

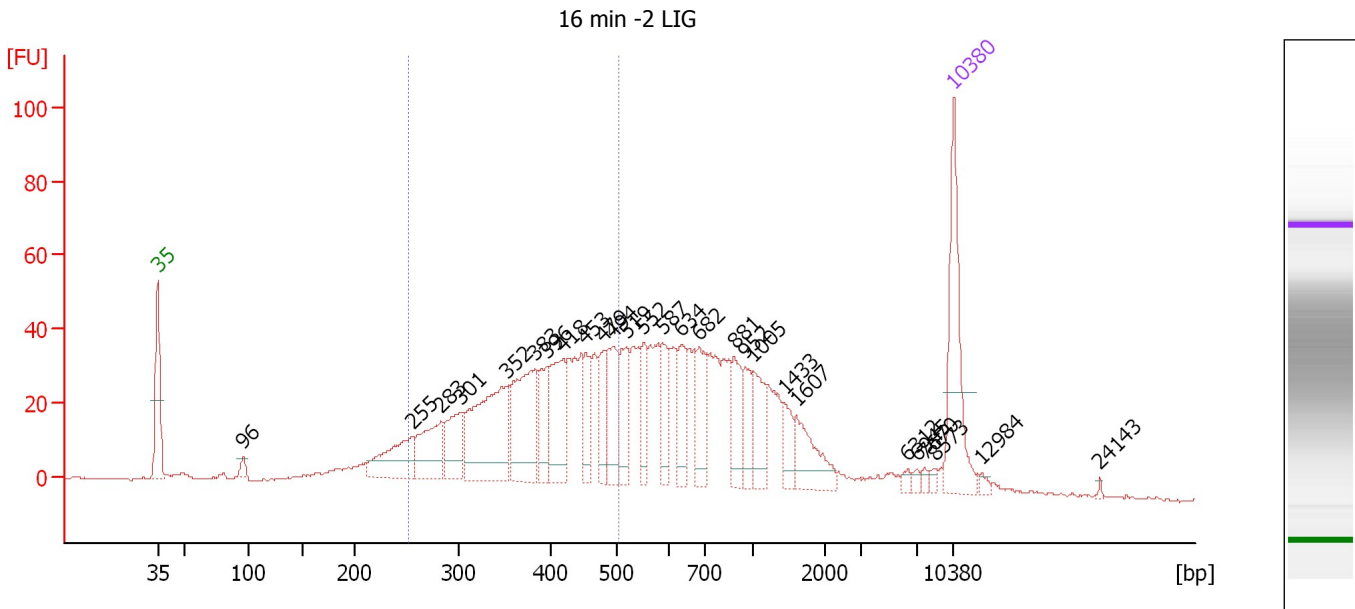
Region table for sample 3 : 13 min -2 LIG

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	522	1,826.3	8,307.0	2,363.51	79	36.2

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 16 min -2 LIG

Number of peaks found: 27 Corr. Area 1: 654.5
 Noise: 0.3

Peak table for sample 4 : 16 min -2 LIG

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	96	9.38	148.0		50.51
3	255	64.55	383.2		65.42
4	283	60.42	323.3		67.96
5	301	49.69	249.9		69.60
6	352	137.52	592.1		73.67
7	383	101.84	402.4		76.21
8	396	41.69	159.6		77.20
9	418	67.88	246.0		78.60
10	453	32.89	109.9		80.63
11	479	33.05	104.5		82.13
12	494	52.71	161.5		83.02
13	519	41.79	122.1		84.21
14	552	29.74	81.6		85.76
15	587	28.42	73.3		87.40
16	634	34.23	81.8		89.09
17	682	48.13	106.9		90.63
18	881	36.20	62.3		93.71
19	952	25.17	40.1		94.70
20	1,005	34.26	51.6		95.40
21	1,433	20.21	21.4		98.09
22	1,607	38.75	36.5		99.18
23	6,312	4.03	1.0		108.97
24	6,945	3.60	0.8		109.77
25	7,670	3.11	0.6		110.46

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Electropherogram Summary Continued ...

... Peak table for sample 4 : 16 min -2 LIG

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,573	3.56	0.6		111.31
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,984	0.00	0.0		115.44
29	24,143	0.00	0.0		125.88

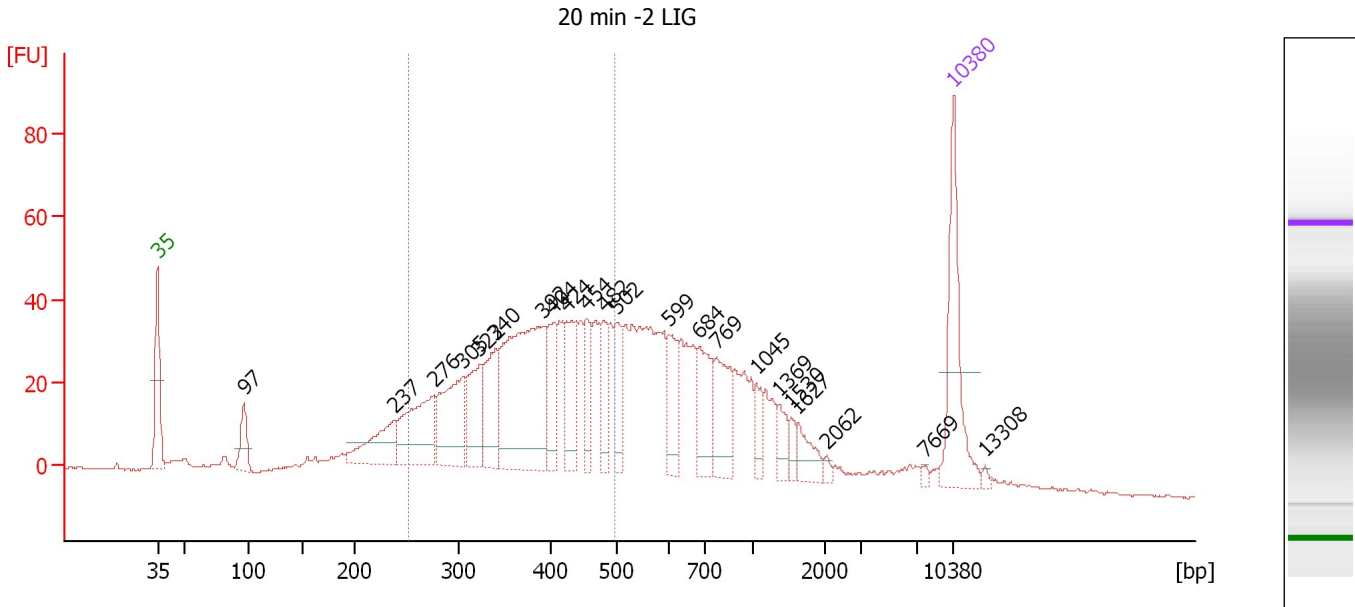
Region table for sample 4 : 16 min -2 LIG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
251	505	386	654.5	3,137.4	760.06	44	17.9

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 20 min -2 LIG

Number of peaks found: 22 Corr. Area 1: 729.5
 Noise: 0.3

Peak table for sample 5 : 20 min -2 LIG

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	97	34.54	540.1		50.61
3	237	57.85	369.2		63.80
4	276	95.04	522.0		67.30
5	305	91.64	455.5		69.88
6	322	60.02	282.6		71.25
7	340	59.51	265.1		72.72
8	392	206.67	797.9		76.93
9	404	40.64	152.3		77.80
10	424	54.55	194.7		78.96
11	454	34.90	116.4		80.69
12	482	34.06	107.0		82.31
13	502	38.44	116.1		83.43
14	599	39.22	99.2		87.94
15	684	50.04	110.9		90.68
16	769	54.02	106.5		92.15
17	1,045	17.11	24.8		95.65
18	1,369	16.23	18.0		97.68
19	1,530	9.60	9.5		98.70
20	1,627	19.41	18.1		99.30
21	2,062	3.43	2.5		101.84
22	7,669	2.57	0.5		110.46
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,308	0.00	0.0		115.74

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Electropherogram Summary Continued ...

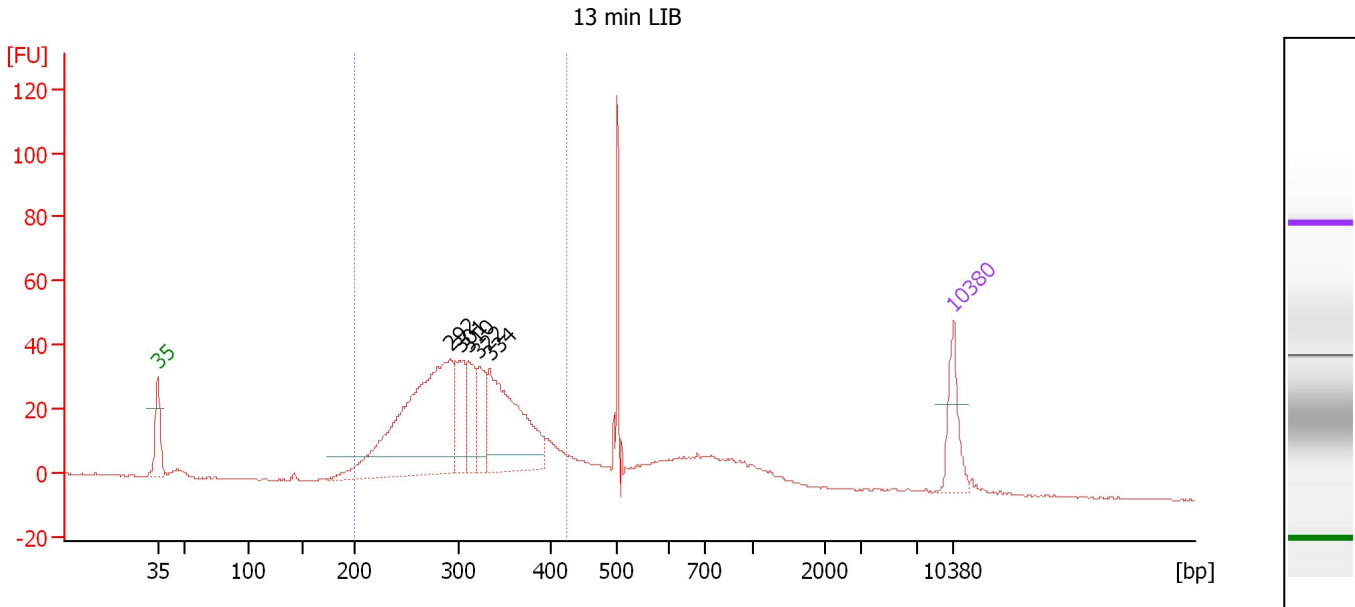
... Region table for sample 5 : 20 min -2 LIG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
251	497	378	729.5	3,848.3	916.52	48	17.7

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 13 min LIB

Number of peaks found: 5 Corr. Area 1: 633.9
 Noise: 0.2

Peak table for sample 6 : 13 min LIB

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	292	687.18	3,563.1		68.79
3	301	115.26	579.4		69.61
4	310	97.77	477.3		70.33
5	322	89.91	423.2		71.26
6	334	342.37	1,552.9		72.24
7	10,380	75.00	10.9	Upper Marker	113.00

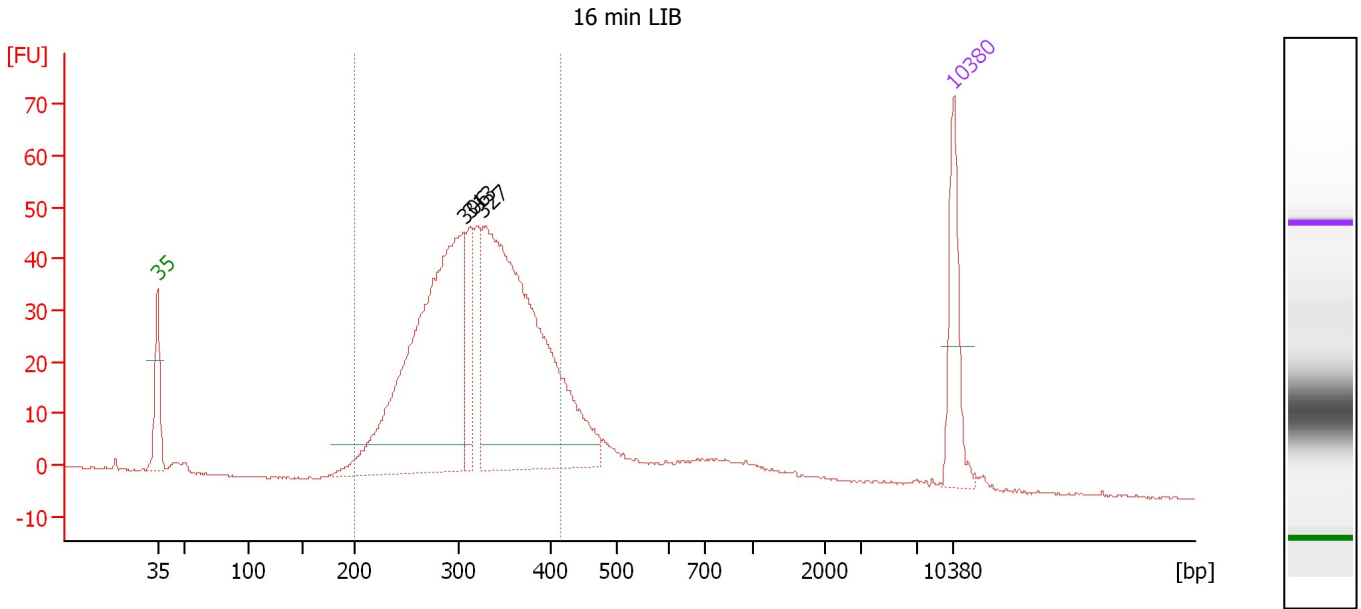
Region table for sample 6 : 13 min LIB

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	424	308	633.9	8,148.2	1,599.99	73	16.3

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 16 min LIB

Number of peaks found: 3 Corr. Area 1: 777.1
 Noise: 0.2

Peak table for sample 7 : 16 min LIB

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	306	597.96	2,959.6		69.99
3	313	83.71	405.6		70.52
4	327	658.82	3,051.9		71.67
5	10,380	75.00	10.9	Upper Marker	113.00

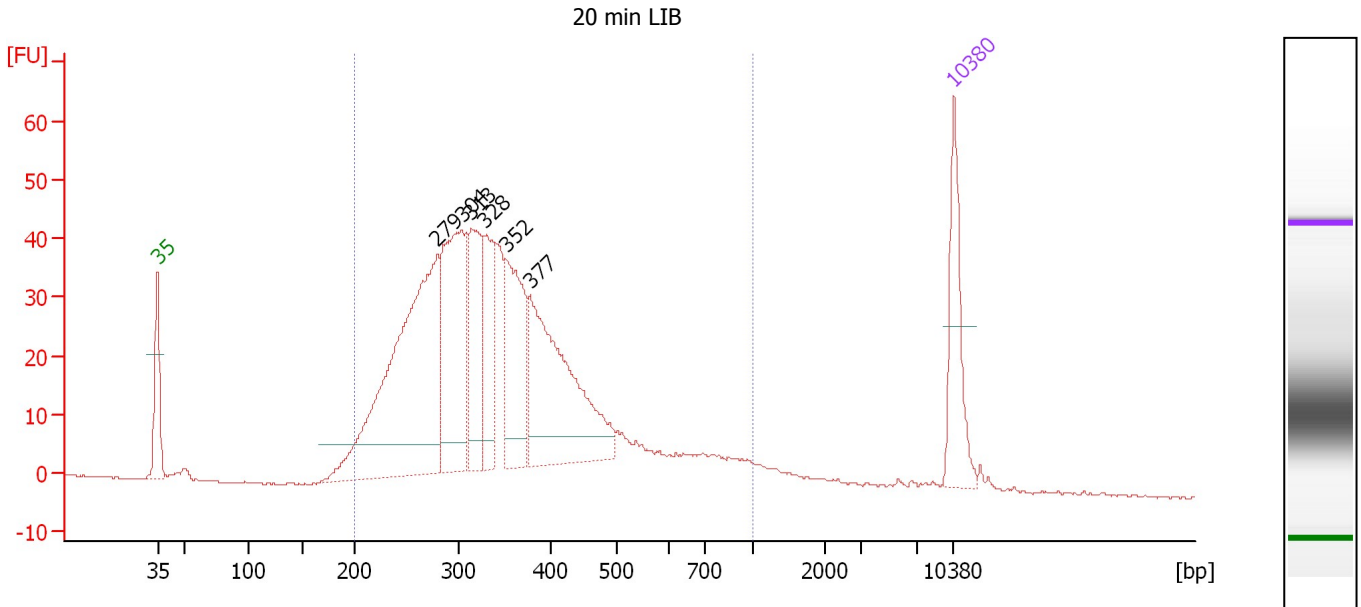
Region table for sample 7 : 16 min LIB

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	416	317	777.1	6,747.3	1,369.97	82	15.4

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 20 min LIB

Number of peaks found: 6 Corr. Area 1: 922.1
 Noise: 0.2

Peak table for sample 8 : 20 min LIB

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	279	486.72	2,645.5		67.56
3	304	244.55	1,219.5		69.80
4	313	127.74	618.1		70.55
5	328	98.29	453.5		71.78
6	352	146.62	631.8		73.65
7	377	263.74	1,058.7		75.73
8	10,380	75.00	10.9	Upper Marker	113.00

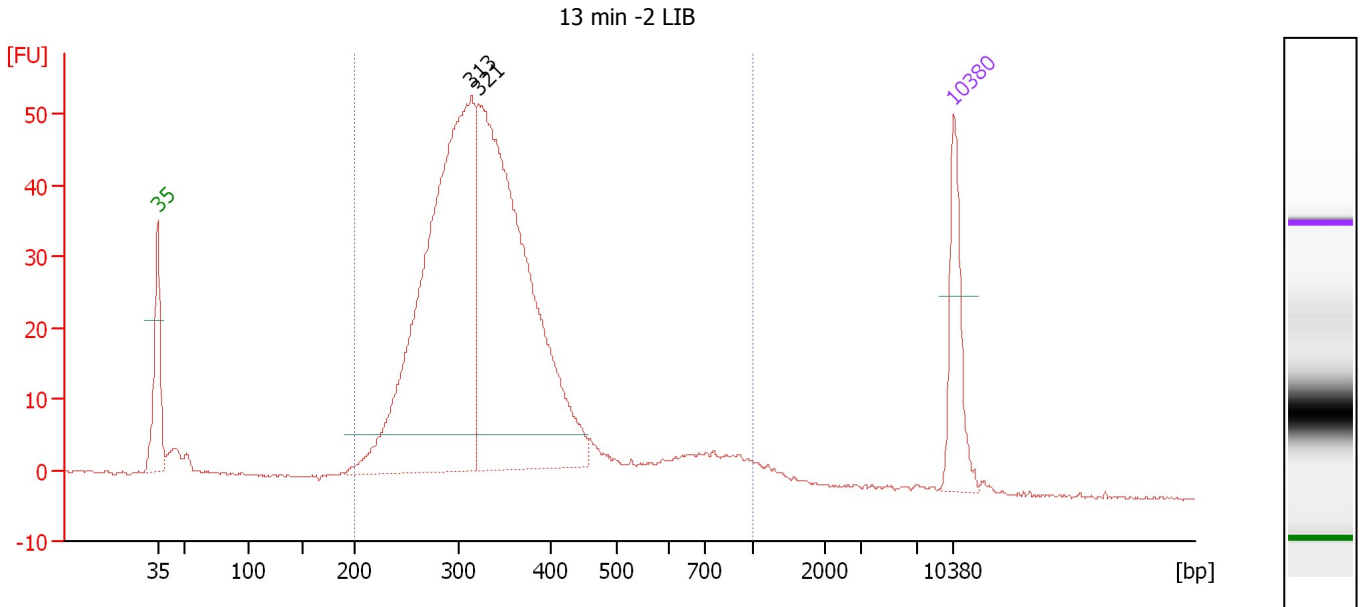
Region table for sample 8 : 20 min LIB

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	361	922.1	8,032.1	1,707.54	95	34.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
 Modified: 1/23/2017 12:03:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 13 min -2 LIB

Number of peaks found: 2 Corr. Area 1: 818.6
 Noise: 0.2

Peak table for sample 9 : 13 min -2 LIB

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	313	813.00	3,930.8		70.57
3	321	793.77	3,742.6		71.21
4	10,380	75.00	10.9	Upper Marker	113.00

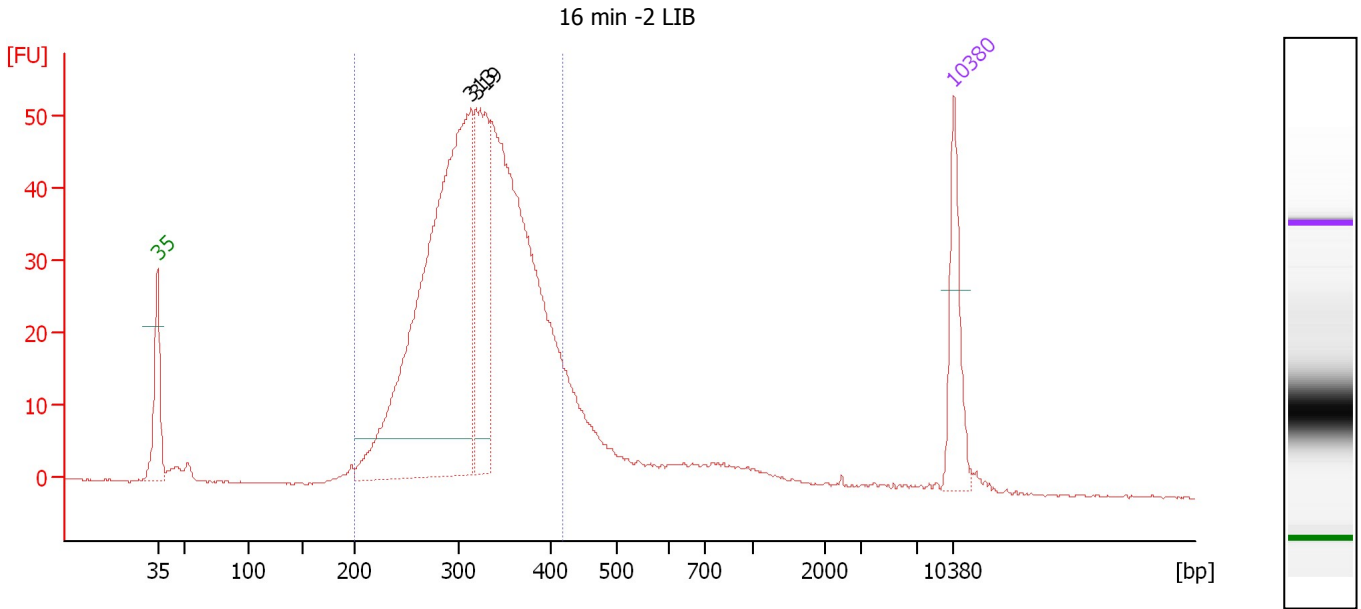
Region table for sample 9 : 13 min -2 LIB

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	353	818.6	8,506.5	1,814.77	95	32.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
 Modified: 1/23/2017 12:03:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 16 min -2 LIB

Number of peaks found: 2 Corr. Area 1: 742.0
 Noise: 0.1

Peak table for sample 10 : 16 min -2 LIB

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	313	842.64	4,084.6		70.51
3	319	226.76	1,076.3		71.04
4	10,380	75.00	10.9	Upper Marker	113.00

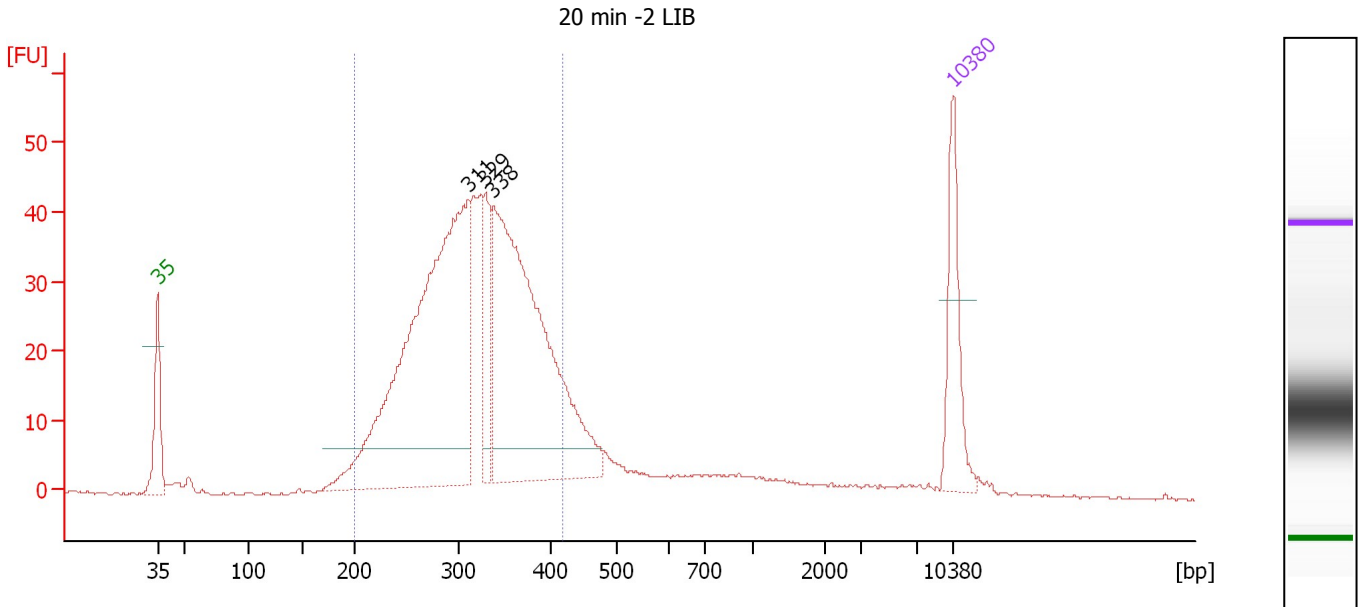
Region table for sample 10 : 16 min -2 LIB

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	418	320	742.0	8,939.3	1,835.34	85	14.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
 Modified: 1/23/2017 12:03:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 20 min -2 LIB

Number of peaks found: 3 Corr. Area 1: 687.4
 Noise: 0.2

Peak table for sample 11 : 20 min -2 LIB

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	311	687.41	3,351.9		70.36
3	329	84.36	388.9		71.80
4	338	556.31	2,494.2		72.55
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 20 min -2 LIB

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	420	316	687.4	7,300.3	1,470.75	83	16.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
Modified: 1/23/2017 12:03:10 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-23\2017-01-23_002.xad

Created: 1/23/2017 11:21:03 AM
 Modified: 1/23/2017 12:03:10 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		1/23/2017 12:02:19 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\2017-01-23\2017-01-23_002.xad)		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/23/2017 11:21:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1