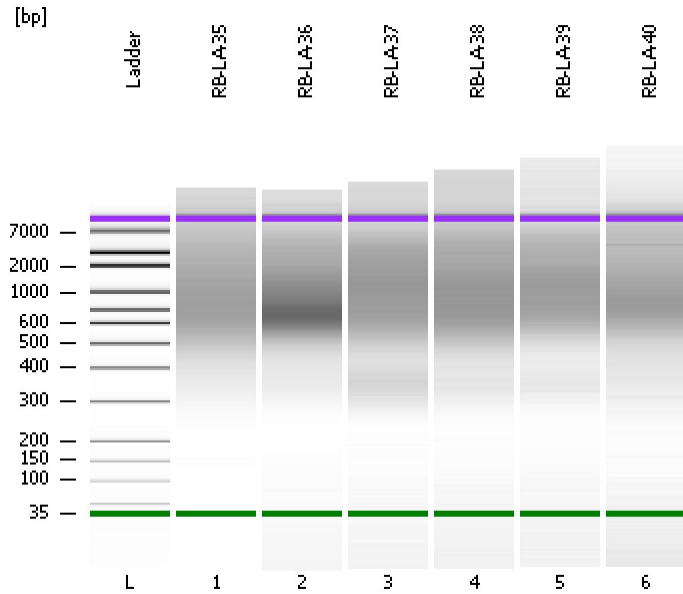


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 PM

**Electrophoresis File Run Summary**



Instrument Information:

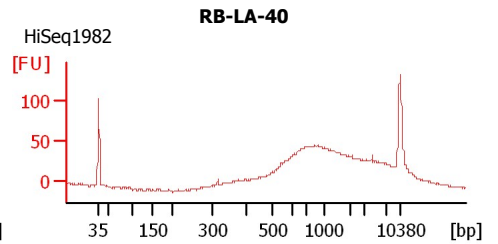
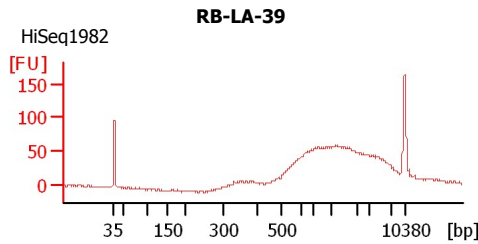
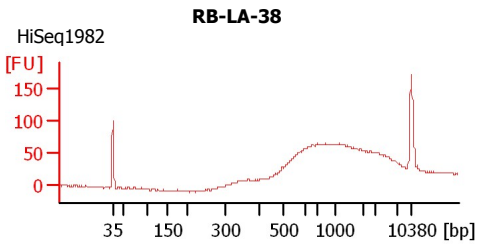
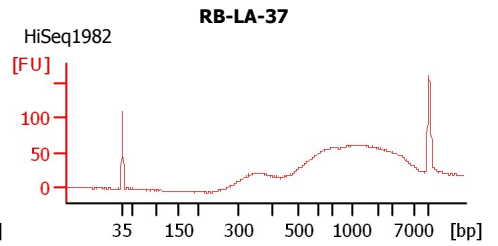
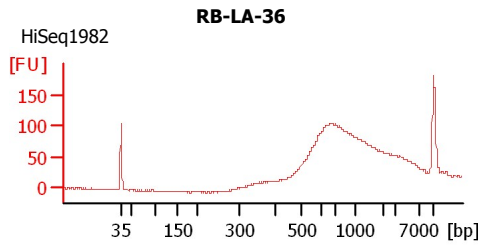
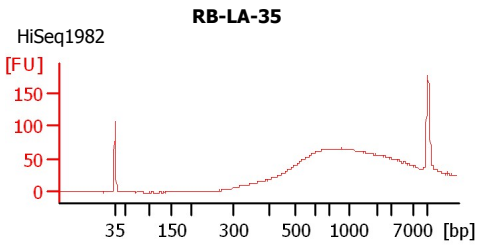
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RB-LA-35	HiSeq1982	<input type="checkbox"/>	✓			
RB-LA-36	HiSeq1982	<input type="checkbox"/>	✓			
RB-LA-37	HiSeq1982	<input type="checkbox"/>	✓			
RB-LA-38	HiSeq1982	<input type="checkbox"/>	✓			
RB-LA-39	HiSeq1982	<input type="checkbox"/>	✓			
RB-LA-40	HiSeq1982	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 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

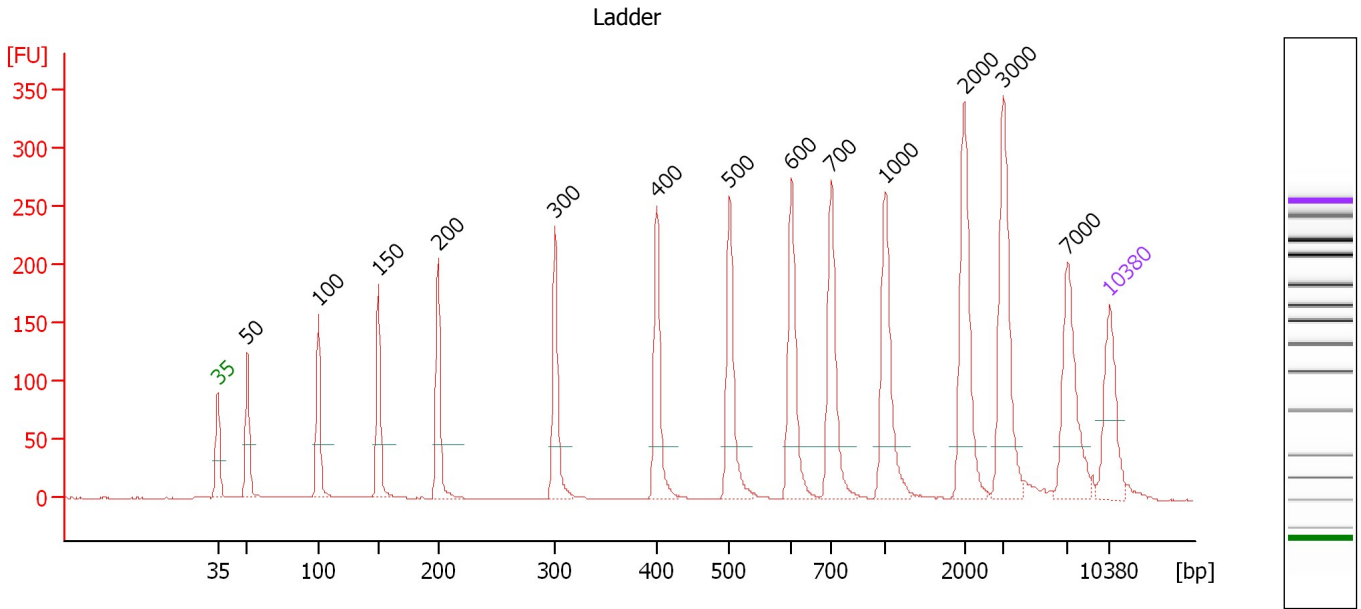
**Ladder**

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:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

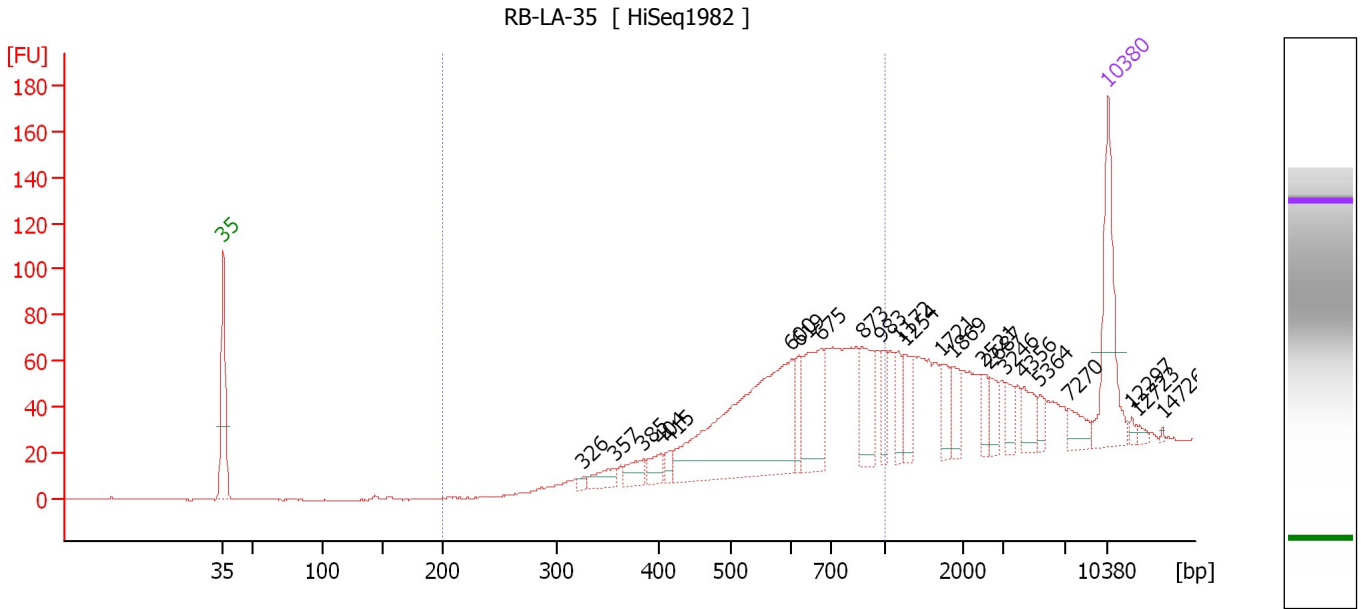
**Peak table for Ladder**

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.59
5	200	150.00	1,136.4	Ladder Peak	60.28
6	300	150.00	757.6	Ladder Peak	69.44
7	400	150.00	568.2	Ladder Peak	77.44
8	500	150.00	454.5	Ladder Peak	83.17
9	600	150.00	378.8	Ladder Peak	87.98
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : RB-LA-35**

Number of peaks found: 23                      Corr. Area 1: 702.3  
 Noise: 0.3

**Peak table for sample 1 : RB-LA-35**

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	326	4.90	22.8		71.52
3	357	20.37	86.5		73.97
4	385	18.40	72.5		76.21
5	404	15.62	58.6		77.64
6	415	9.13	33.4		78.27
7	600	257.99	651.5		87.98
8	619	25.28	61.9		88.57
9	675	78.52	176.2		90.34
10	873	46.82	81.3		93.55
11	983	21.33	32.9		95.11
12	1,172	21.27	27.5		96.42
13	1,254	24.34	29.4		96.92
14	1,721	21.77	19.2		99.84
15	1,869	18.33	14.9		100.76
16	2,521	12.29	7.4		103.17
17	2,687	13.99	7.9		103.68
18	3,246	14.28	6.7		104.94
19	4,356	18.69	6.5		106.33
20	5,364	8.67	2.4		107.60
21	7,270	15.27	3.2		109.92
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,297	0.00	0.0		114.90
24	12,723	0.00	0.0		115.32
25	14,726	0.00	0.0		117.30

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 PM

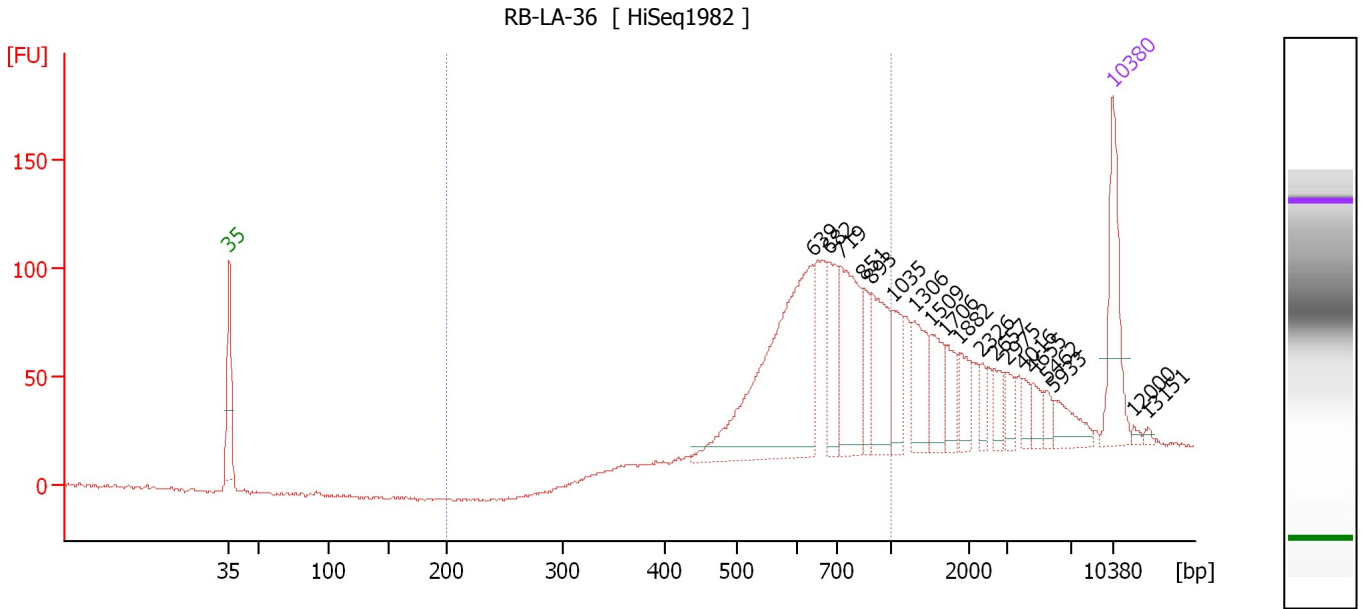
**Electropherogram Summary Continued ...****... Region table for sample 1 : RB-LA-35**

<b>From [bp]</b>	<b>To [bp]</b>	<b>Average Size [bp]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Corr. Area</b>	<b>Molarity [pmol/l]</b>	<b>Co % of lor Total</b>	<b>Size distribution in CV [%]</b>
200	1,000	661	520.90	702.3	1,281.3	 57	23.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : RB-LA-36**

Number of peaks found: 19                      Corr. Area 1: 1,036.1  
 Noise: 0.7

**Peak table for sample 2 : RB-LA-36**

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	639	325.43	772.2		89.19
3	682	59.55	132.4		90.54
4	719	129.98	273.9		91.38
5	851	31.80	56.6		93.24
6	893	86.58	146.9		93.83
7	1,035	40.33	59.0		95.56
8	1,306	53.28	61.8		97.25
9	1,509	40.76	40.9		98.52
10	1,706	29.33	26.0		99.74
11	1,882	26.20	21.1		100.84
12	2,326	13.45	8.8		102.57
13	2,657	18.63	10.6		103.59
14	2,975	17.47	8.9		104.56
15	4,016	12.09	4.6		105.91
16	4,655	14.19	4.6		106.71
17	5,462	10.67	3.0		107.72
18	5,933	27.18	6.9		108.31
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,000	0.00	0.0		114.60
21	13,151	0.00	0.0		115.74

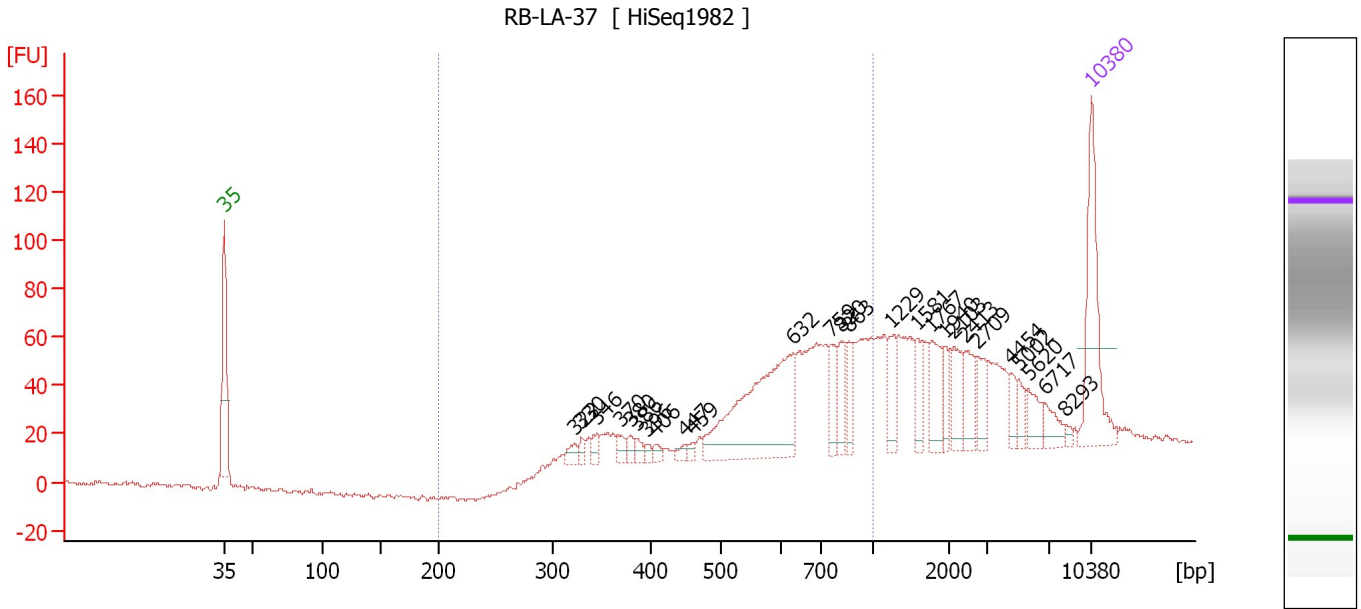
**Region table for sample 2 : RB-LA-36**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	687	743.12	1,036.1	1,719.0	61	20.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : RB-LA-37**

Number of peaks found: 26      Corr. Area 1: 682.7  
 Noise: 0.9

**Peak table for sample 3 : RB-LA-37**

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	322	10.29	48.4		71.24
3	330	7.10	32.6		71.84
4	346	9.96	43.6		73.14
5	370	9.47	38.7		75.07
6	380	7.87	31.4		75.80
7	386	7.27	28.5		76.32
8	396	4.67	17.9		77.14
9	406	6.33	23.6		77.78
10	447	6.24	21.1		80.15
11	459	4.88	16.1		80.84
12	632	177.58	425.8		88.98
13	759	26.75	53.4		91.95
14	820	24.66	45.6		92.81
15	863	22.54	39.6		93.41
16	1,229	23.54	29.0		96.77
17	1,581	19.91	19.1		98.97
18	1,767	30.75	26.4		100.13
19	1,940	14.92	11.7		101.20
20	2,103	24.32	17.5		101.89
21	2,413	26.29	16.5		102.84
22	2,709	18.81	10.5		103.74
23	4,454	11.63	4.0		106.46
24	5,002	10.88	3.3		107.15
25	5,620	16.84	4.5		107.92



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : RB-LA-37

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,717	13.31	3.0		109.30
27	8,293	3.18	0.6		110.93
28	10,380	75.00	10.9	Upper Marker	113.00

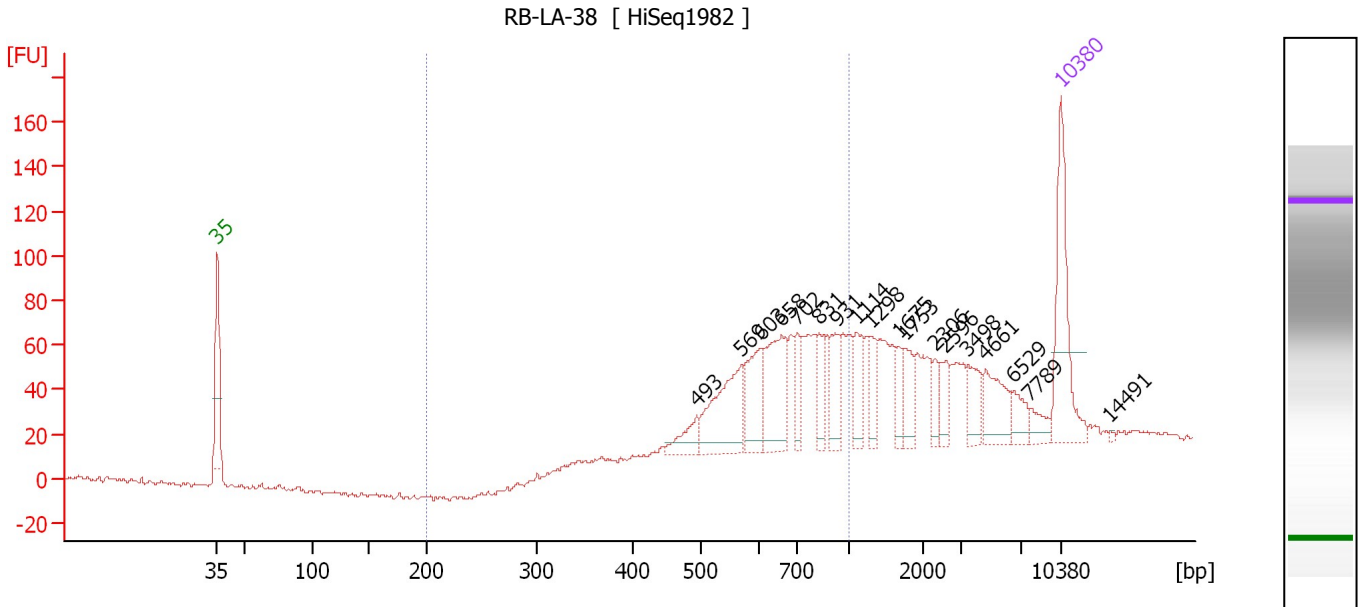
#### Region table for sample 3 : RB-LA-37

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	646	530.73	682.7	1,410.6	54	27.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : RB-LA-38**

Number of peaks found: 18                      Corr. Area 1: 642.5  
 Noise: 1.0

**Peak table for sample 4 : RB-LA-38**

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	493	24.64	75.7		82.78
3	569	83.31	221.8		86.50
4	603	52.24	131.1		88.09
5	658	76.71	176.5		89.81
6	702	23.40	50.5		91.14
7	831	23.24	42.4		92.96
8	931	32.68	53.2		94.37
9	1,114	24.83	33.8		96.05
10	1,298	19.17	22.4		97.20
11	1,675	15.04	13.6		99.55
12	1,753	22.94	19.8		100.04
13	2,306	12.97	8.5		102.51
14	2,596	17.89	10.4		103.40
15	3,498	22.53	9.8		105.26
16	4,661	35.59	11.6		106.72
17	6,529	16.12	3.7		109.06
18	7,789	11.62	2.3		110.43
19	10,380	75.00	10.9	Upper Marker	113.00
20	14,491	0.00	0.0		117.07

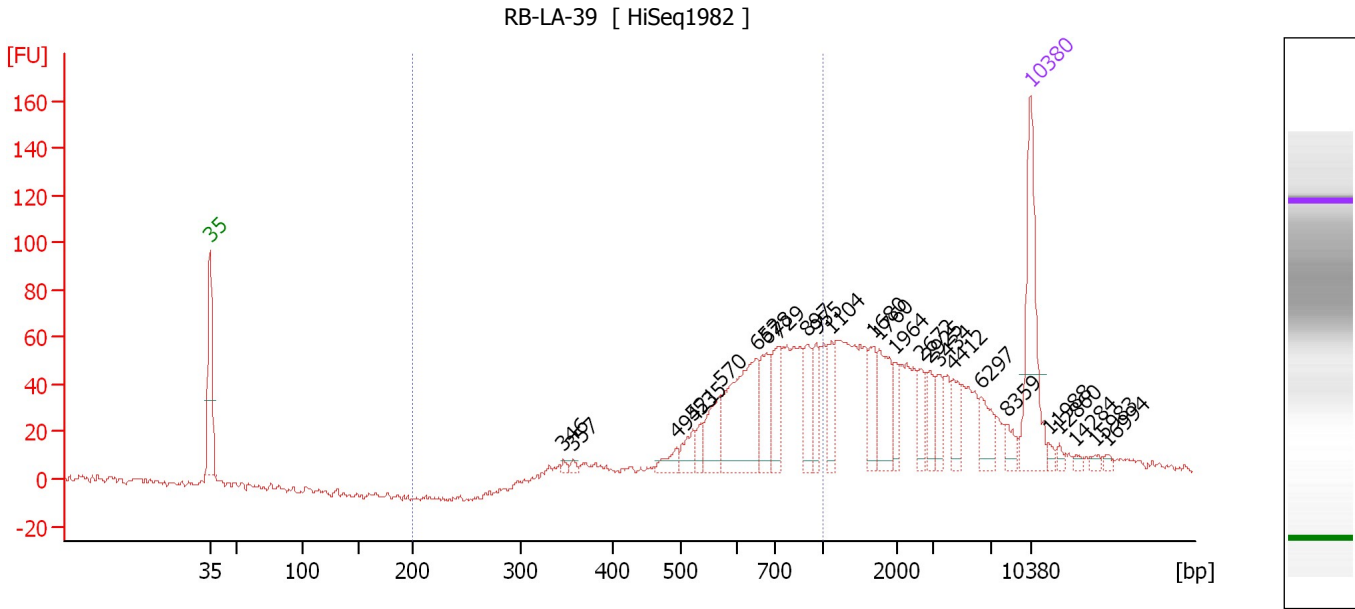
**Region table for sample 4 : RB-LA-38**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	690	434.48	642.5	1,005.3	52	21.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : RB-LA-39**

Number of peaks found: 26                      Corr. Area 1: 614.1  
 Noise: 1.2

**Peak table for sample 5 : RB-LA-39**

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	346	3.73	16.3		73.16
3	357	4.11	17.5		73.97
4	494	13.22	40.5		82.84
5	521	17.70	51.5		84.16
6	535	10.37	29.4		84.85
7	570	36.04	95.8		86.53
8	652	107.19	249.0		89.62
9	678	36.43	81.4		90.44
10	729	33.92	70.5		91.53
11	897	29.69	50.1		93.90
12	955	23.70	37.6		94.72
13	1,104	23.07	31.7		95.99
14	1,680	24.14	21.8		99.58
15	1,760	38.07	32.8		100.08
16	1,964	15.47	11.9		101.36
17	2,672	15.11	8.6		103.63
18	2,925	13.51	7.0		104.40
19	3,434	15.14	6.7		105.18
20	4,412	18.05	6.2		106.40
21	6,297	19.68	4.7		108.77
22	8,359	9.35	1.7		111.00
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,988	0.00	0.0		114.59
25	12,860	0.00	0.0		115.46

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : RB-LA-39

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	14,284	0.00	0.0		116.87
27	15,983	0.00	0.0		118.55
28	16,994	0.00	0.0		119.55

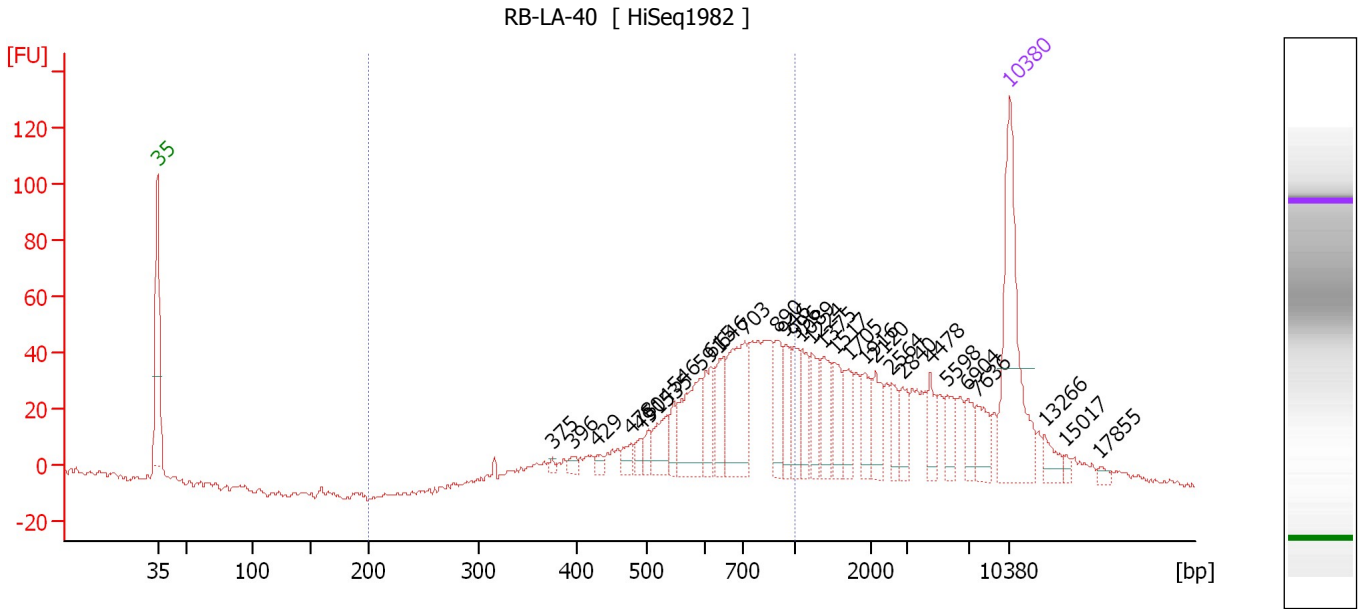
#### Region table for sample 5 : RB-LA-39

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	693	436.35	614.1	1,031.7	 46	22.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : RB-LA-40**

Number of peaks found: 31                      Corr. Area 1: 614.9  
 Noise: 0.9

**Peak table for sample 6 : RB-LA-40**

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	375	2.52	10.2		75.42
3	396	4.22	16.1		77.11
4	429	4.31	15.2		79.12
5	478	8.72	27.6		81.89
6	491	6.42	19.8		82.64
7	504	7.76	23.3		83.34
8	535	20.50	58.1		84.84
9	546	10.94	30.3		85.40
10	591	42.84	109.8		87.56
11	615	23.68	58.3		88.45
12	646	24.91	58.4		89.43
13	703	57.04	122.9		91.17
14	890	23.44	39.9		93.79
15	946	16.85	27.0		94.59
16	996	18.64	28.3		95.29
17	1,089	18.91	26.3		95.90
18	1,224	16.77	20.8		96.74
19	1,375	20.09	22.1		97.68
20	1,517	16.66	16.6		98.57
21	1,705	15.41	13.7		99.74
22	1,916	15.03	11.9		101.05
23	2,120	16.60	11.9		101.94
24	2,564	11.05	6.5		103.30
25	2,840	11.97	6.4		104.14

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad


Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : RB-LA-40

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,478	13.35	4.5		106.49
27	5,598	11.54	3.1		107.89
28	6,904	11.38	2.5		109.53
29	7,636	14.01	2.8		110.28
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,266	0.00	0.0		115.86
32	15,017	0.00	0.0		117.59
33	17,855	0.00	0.0		120.40

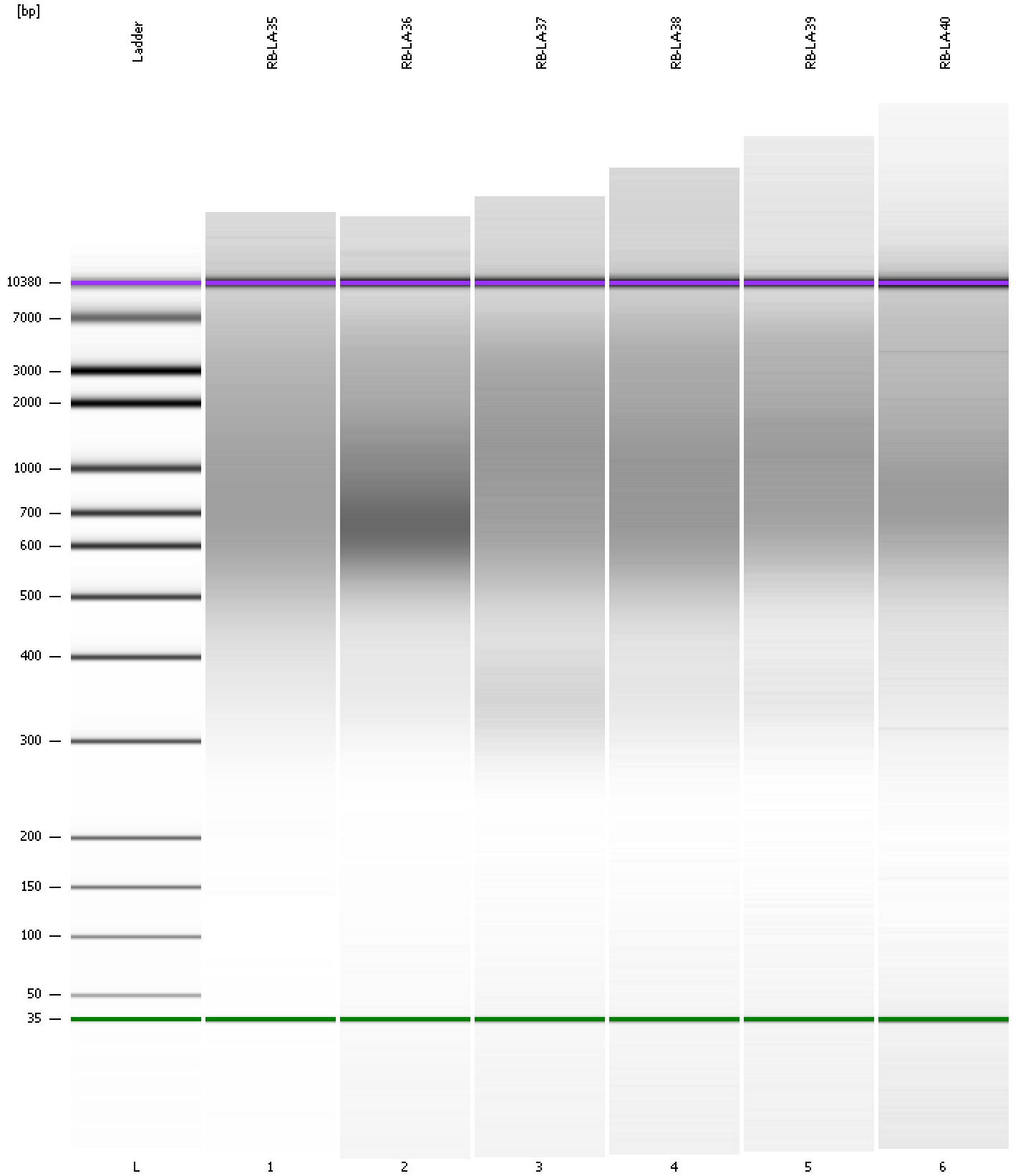
#### Region table for sample 6 : RB-LA-40

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	673	371.44	614.9	909.4	 49	24.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 PM

**Gel Image**

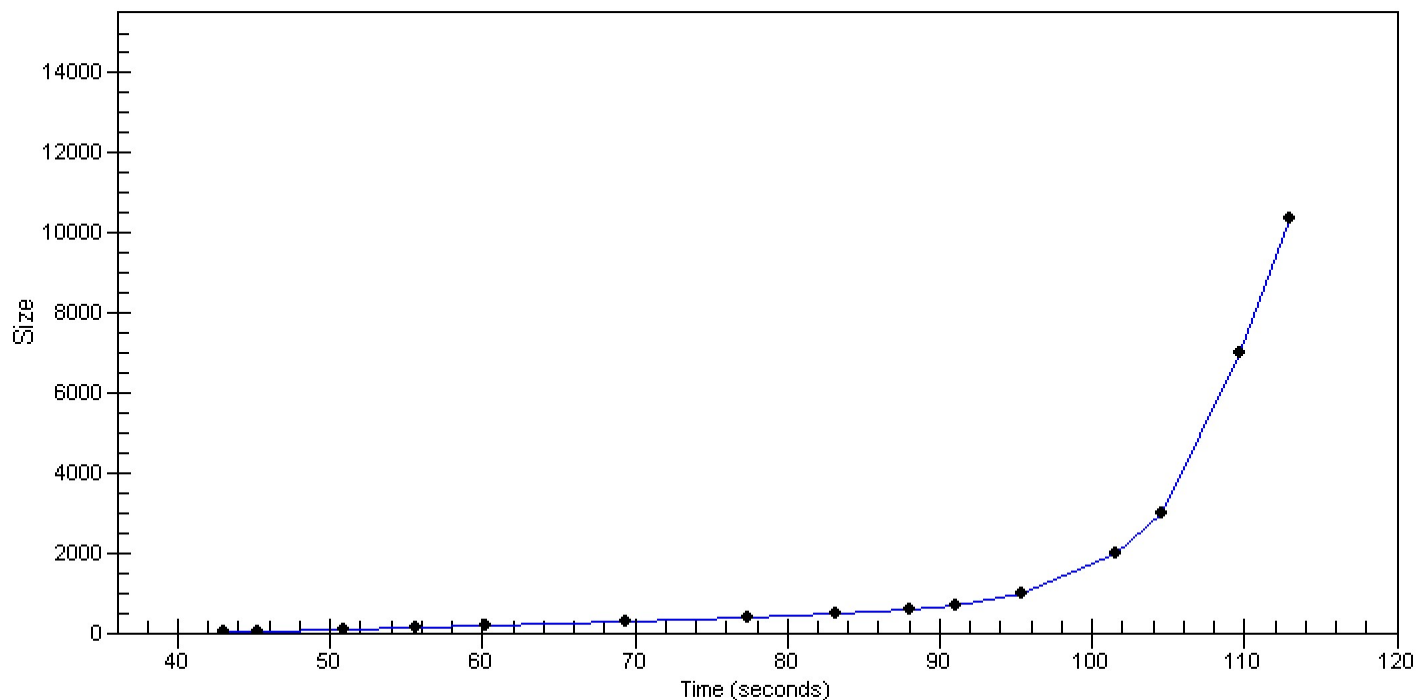


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:14:01 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...expert\data\2019-10-25\2019-10-25\_003\_HiSeq1982\_LibQC\_3.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:14:01 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		10/25/2019 3:26:28 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\2019-10-25\2019-10-25_003.xad)		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1