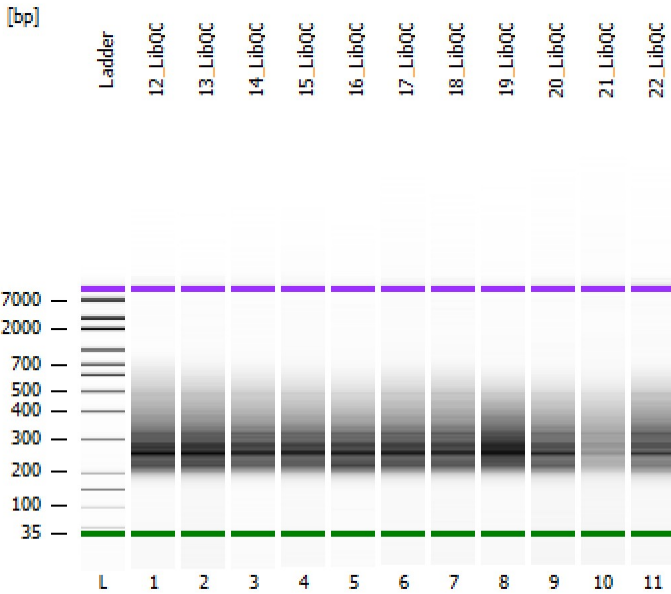


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
Modified: 7/28/2020 9:06:57 AM

Electrophoresis File Run Summary



Instrument Information:

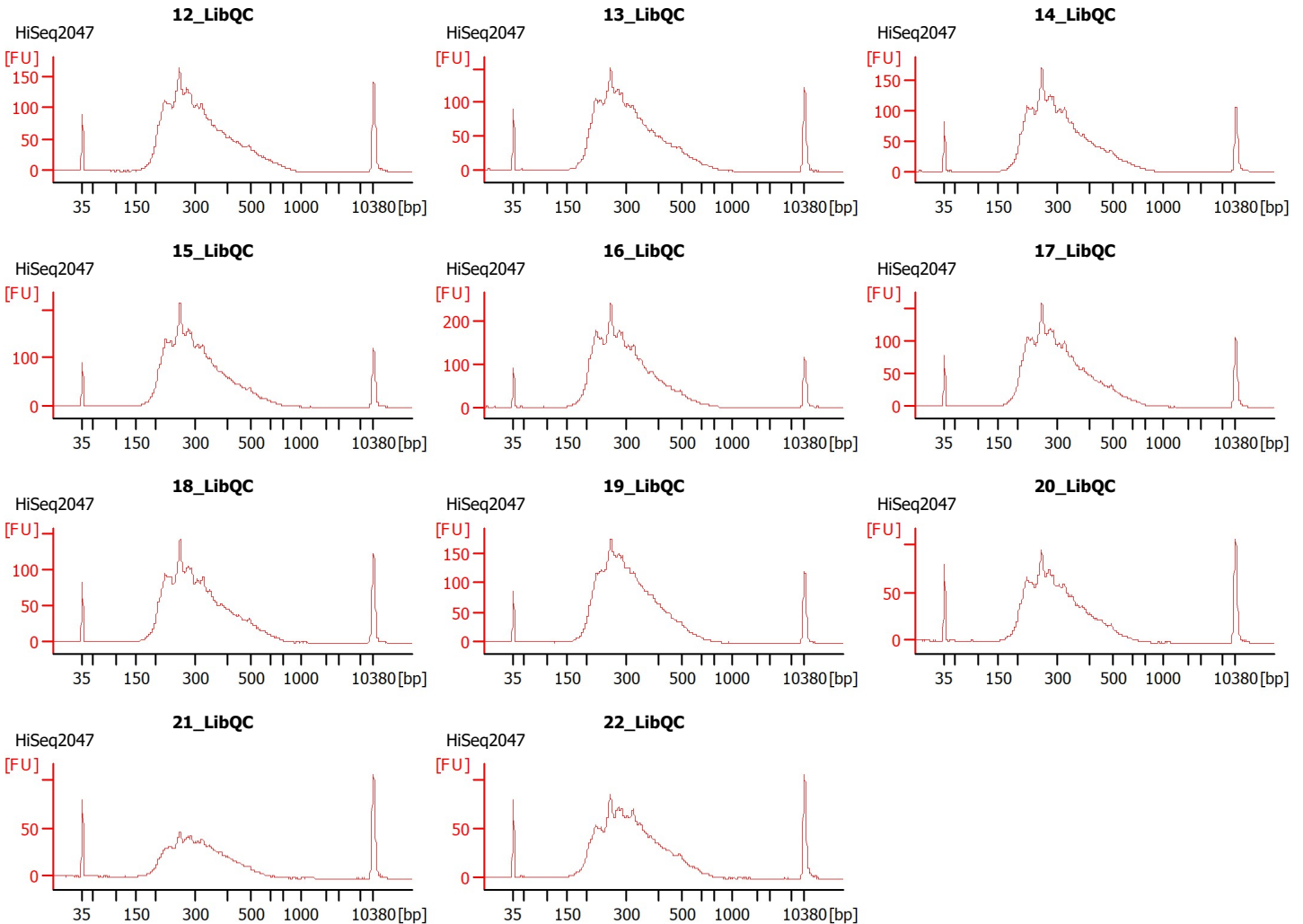
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
13_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
14_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
15_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
16_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
17_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
18_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
19_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
20_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
21_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
22_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

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

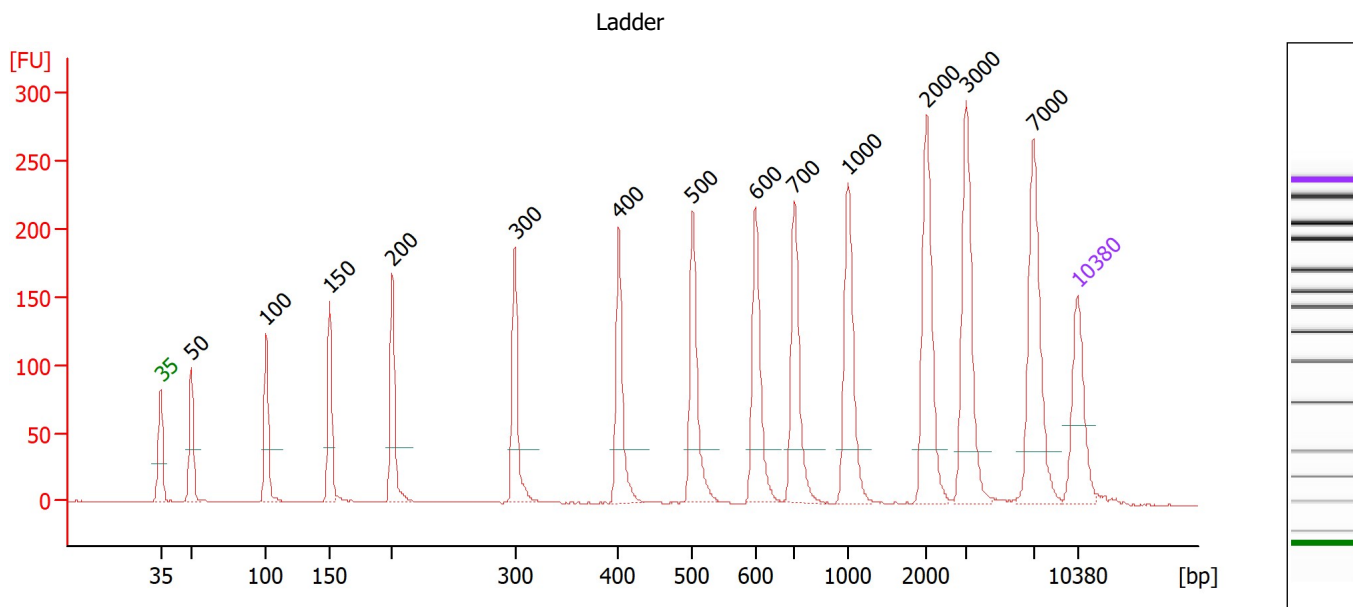
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

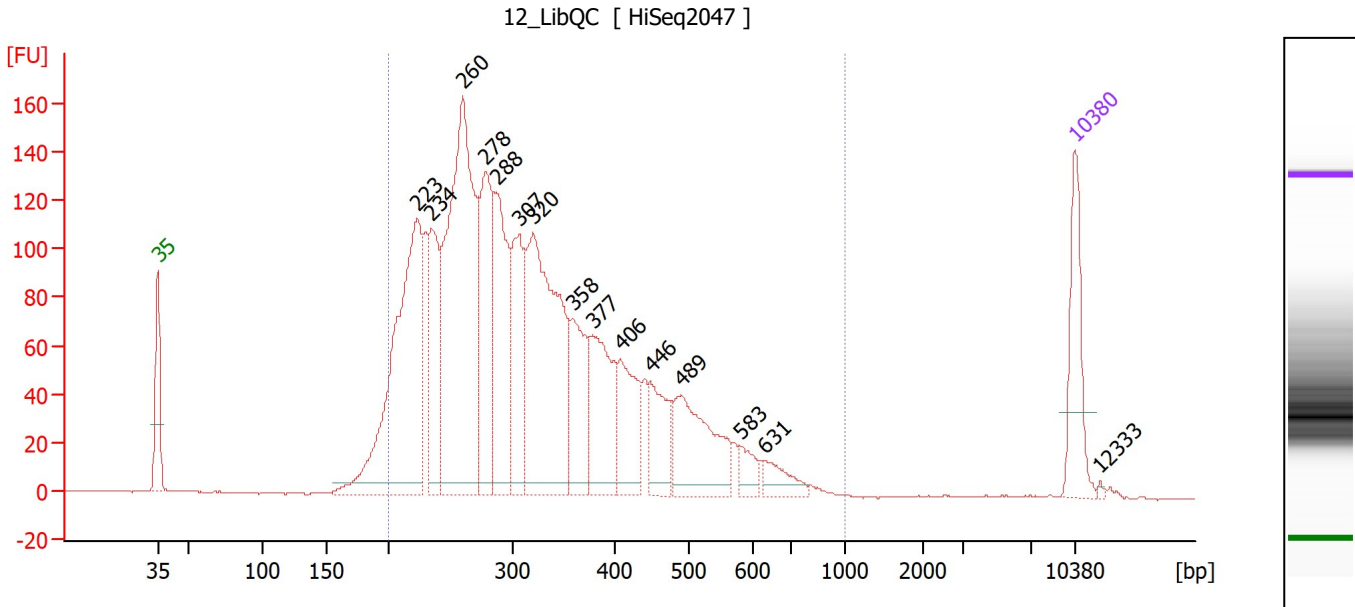
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12 LibQC

Number of peaks found: 15 Corr. Area 1: 3,069.3
 Noise: 0.4

Peak table for sample 1 : 12 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	484.38	3,297.4	
3	234	170.78	1,105.6	
4	260	584.57	3,405.8	
5	278	192.99	1,050.8	
6	288	215.02	1,132.6	
7	307	153.42	757.3	
8	320	408.55	1,931.7	
9	358	122.47	518.4	
10	377	152.13	611.5	
11	406	104.56	389.8	
12	446	78.89	267.9	
13	489	145.83	451.7	
14	583	24.28	63.1	
15	631	30.56	73.4	
16	10,380	75.00	10.9	Upper Marker
17	12,333	0.00	0.0	

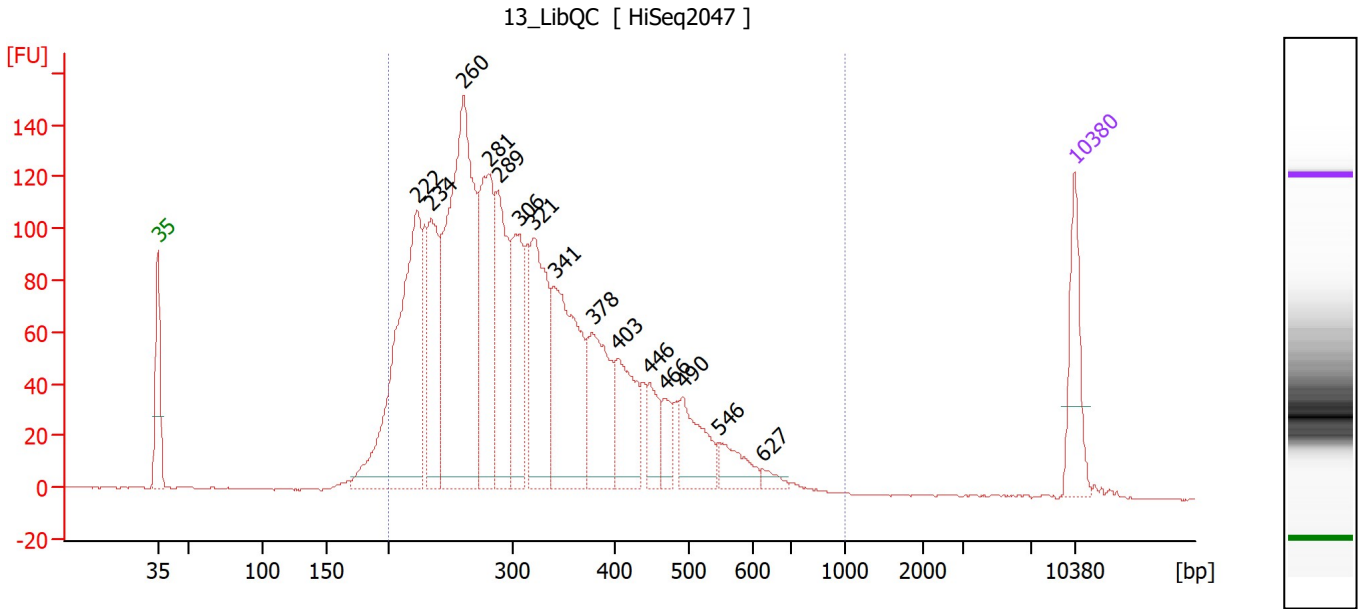
Region table for sample 1 : 12 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,069.3	96	331	32.0	2,878.41	14,704.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 13 LibQC

Number of peaks found: 15 Corr. Area 1: 2,805.8
 Noise: 0.3

Peak table for sample 2 : 13 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	222	529.47	3,612.3	
3	234	193.98	1,254.6	
4	260	661.61	3,852.0	
5	281	274.41	1,480.1	
6	289	213.39	1,119.3	
7	306	163.19	809.1	
8	321	236.71	1,118.7	
9	341	281.96	1,254.3	
10	378	169.12	677.7	
11	403	119.73	450.6	
12	446	54.23	184.4	
13	466	37.55	122.2	
14	490	97.97	302.7	
15	546	50.28	139.4	
16	627	12.59	30.4	
17	10,380	75.00	10.9	Upper Marker

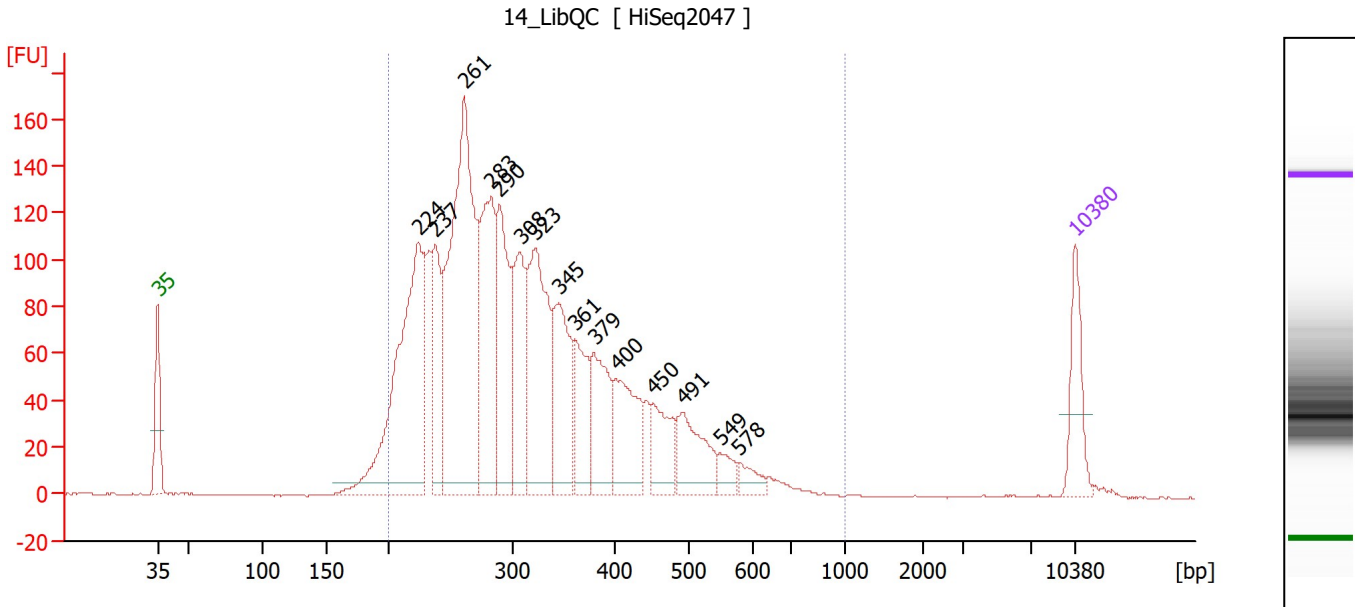
Region table for sample 2 : 13 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,805.8	96	325	30.2	3,264.08	16,808.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 14 LibQC

Number of peaks found: 15 Corr. Area 1: 2,828.5
 Noise: 0.3

Peak table for sample 3 : 14 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	587.53	3,978.8	
3	237	183.28	1,170.6	
4	261	738.00	4,276.1	
5	283	319.78	1,711.6	
6	290	259.98	1,360.4	
7	308	189.61	932.7	
8	323	334.16	1,569.1	
9	345	209.22	919.0	
10	361	129.15	542.3	
11	379	147.39	588.8	
12	400	158.86	601.1	
13	450	95.26	320.4	
14	491	119.45	368.9	
15	549	32.22	88.9	
16	578	28.09	73.6	
17	10,380	75.00	10.9	Upper Marker

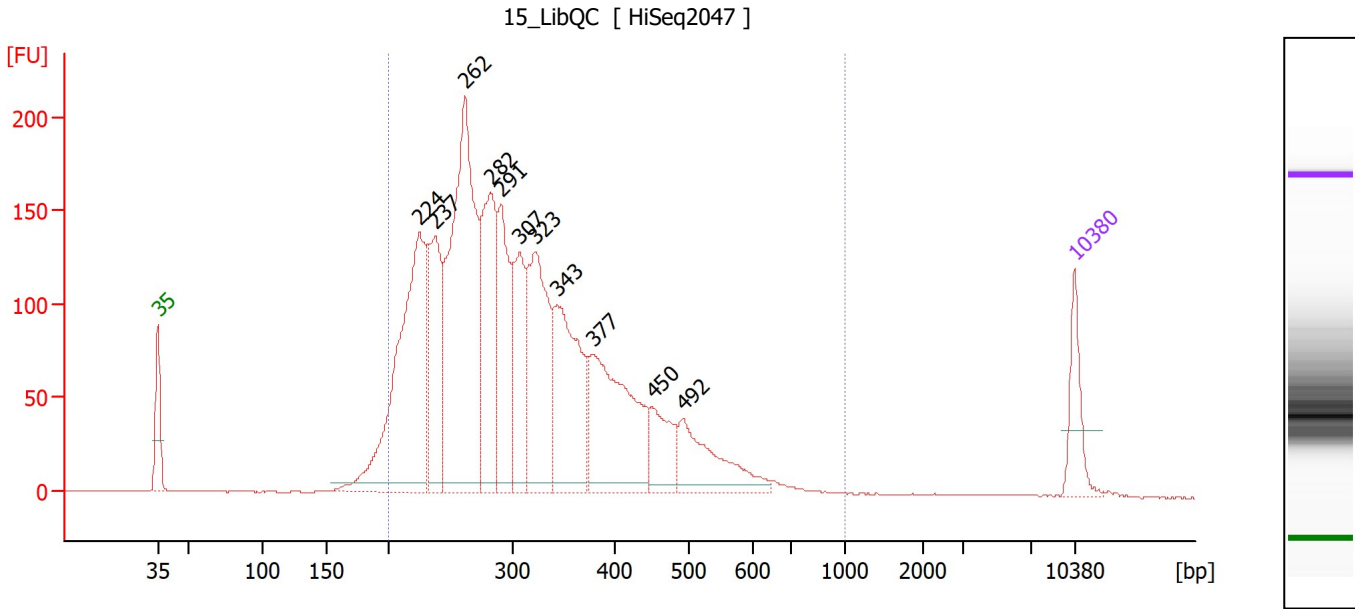
Region table for sample 3 : 14 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,828.5	96	324	30.1	3,681.50	18,937.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 15 LibQC

Number of peaks found: 11 Corr. Area 1: 3,486.9
 Noise: 0.3

Peak table for sample 4 : 15 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	733.97	4,962.2	
3	237	319.91	2,042.5	
4	262	872.83	5,046.2	
5	282	364.28	1,958.1	
6	291	281.68	1,468.2	
7	307	232.25	1,145.6	
8	323	389.35	1,827.8	
9	343	362.89	1,603.6	
10	377	406.94	1,634.4	
11	450	115.39	388.5	
12	492	182.88	563.2	
13	10,380	75.00	10.9	Upper Marker

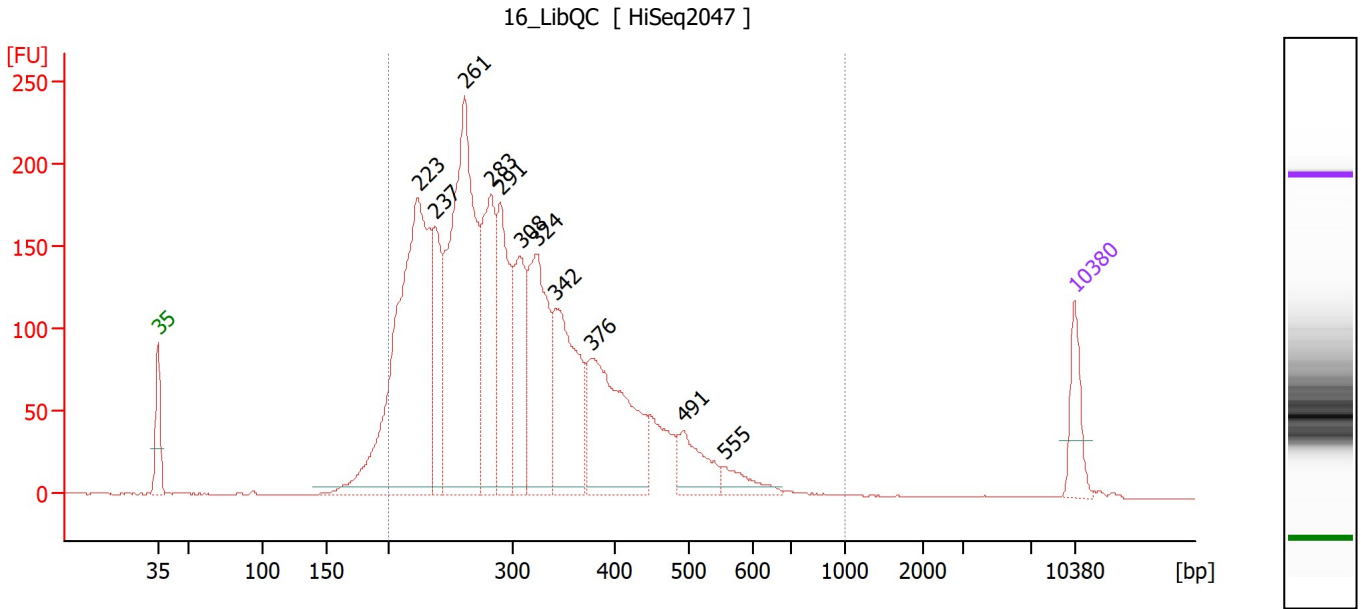
Region table for sample 4 : 15 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,486.9	96	321	29.6	4,211.23	21,814.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 16 LibQC

Number of peaks found: 11 Corr. Area 1: 3,975.8
 Noise: 0.3

Peak table for sample 5 : 16 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	1,158.94	7,872.4	
3	237	248.81	1,589.7	
4	261	968.89	5,616.7	
5	283	391.84	2,095.4	
6	291	361.79	1,886.0	
7	308	238.65	1,175.6	
8	324	414.49	1,937.1	
9	342	380.81	1,686.4	
10	376	440.42	1,774.5	
11	491	112.50	346.9	
12	555	50.25	137.3	
13	10,380	75.00	10.9	Upper Marker

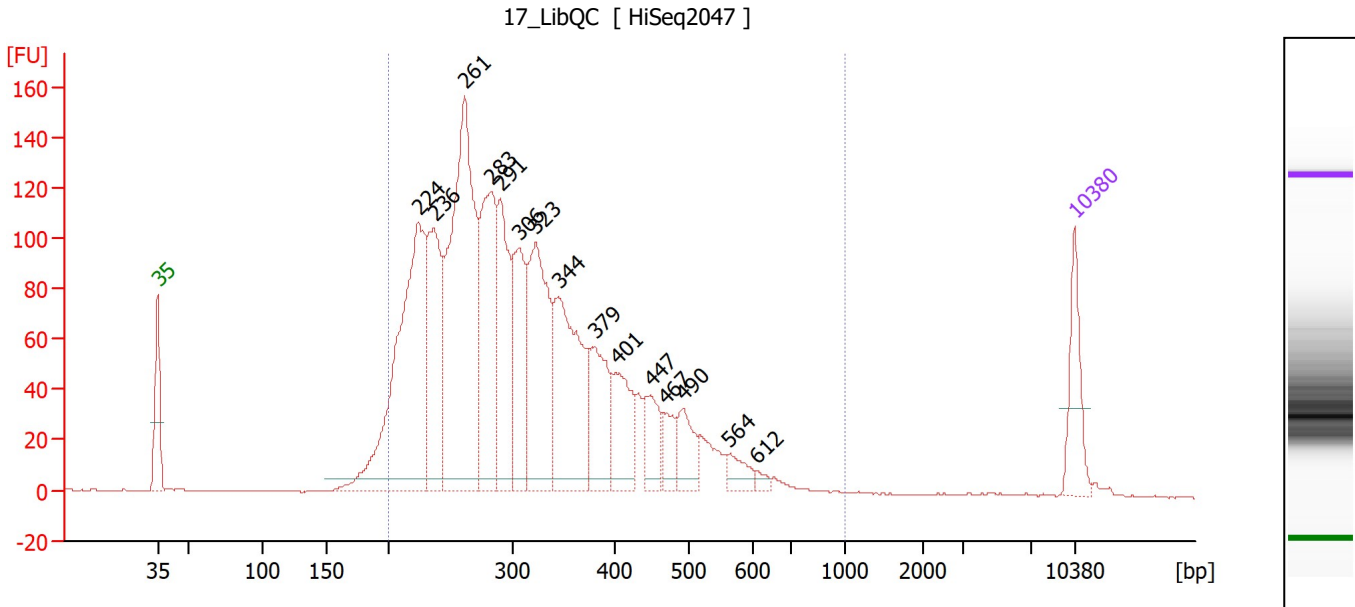
Region table for sample 5 : 16 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,975.8	95	313	29.0	4,765.58	25,121.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 17 LibQC

Number of peaks found: 15 Corr. Area 1: 2,649.1
 Noise: 0.3

Peak table for sample 6 : 17 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	647.65	4,383.8	
3	236	286.09	1,833.0	
4	261	712.38	4,132.4	
5	283	332.10	1,777.8	
6	291	236.78	1,232.5	
7	306	196.92	973.7	
8	323	320.97	1,507.1	
9	344	325.67	1,432.9	
10	379	141.89	567.3	
11	401	126.04	476.4	
12	447	73.17	248.3	
13	467	43.76	142.1	
14	490	66.16	204.4	
15	564	33.73	90.7	
16	612	9.71	24.1	
17	10,380	75.00	10.9	Upper Marker

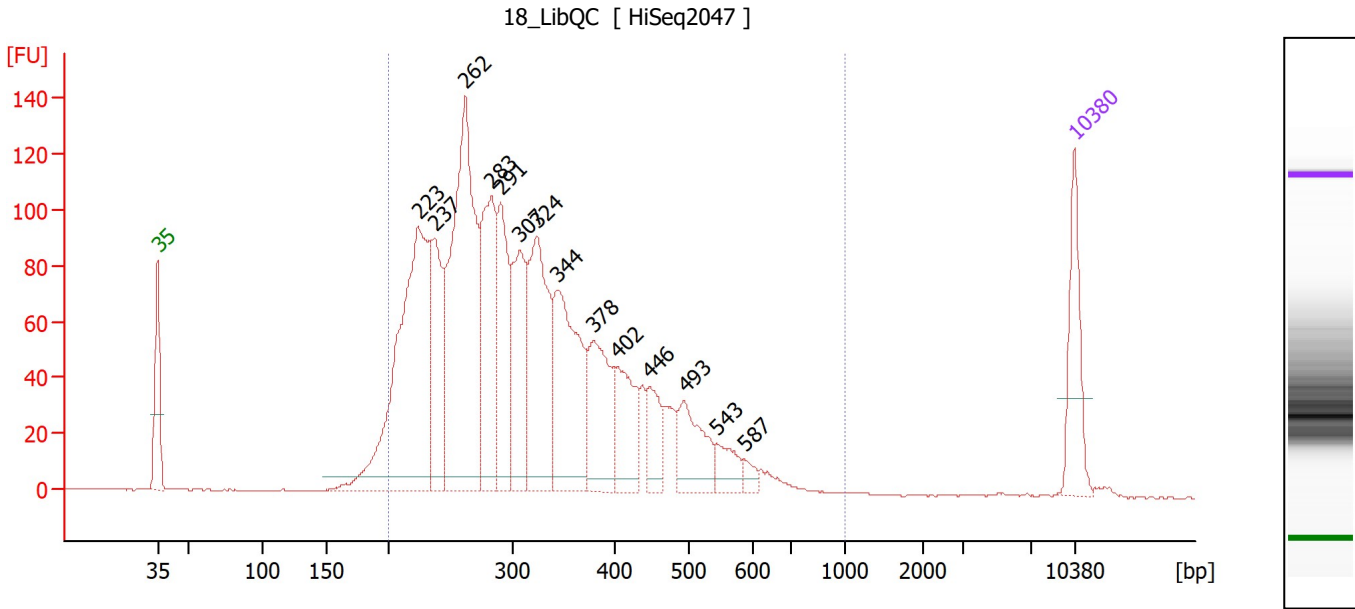
Region table for sample 6 : 17 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,649.1	96	323	30.0	3,637.31	18,774.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 18 LibQC

Number of peaks found: 14 Corr. Area 1: 2,387.2
 Noise: 0.2

Peak table for sample 7 : 18 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	537.57	3,645.6	
3	237	173.61	1,110.9	
4	262	531.68	3,077.2	
5	283	229.28	1,226.3	
6	291	164.88	858.9	
7	307	163.75	808.0	
8	324	248.73	1,162.5	
9	344	246.12	1,083.8	
10	378	139.49	559.6	
11	402	97.88	368.6	
12	446	58.21	197.9	
13	493	88.26	271.4	
14	543	35.54	99.2	
15	587	12.40	32.0	
16	10,380	75.00	10.9	Upper Marker

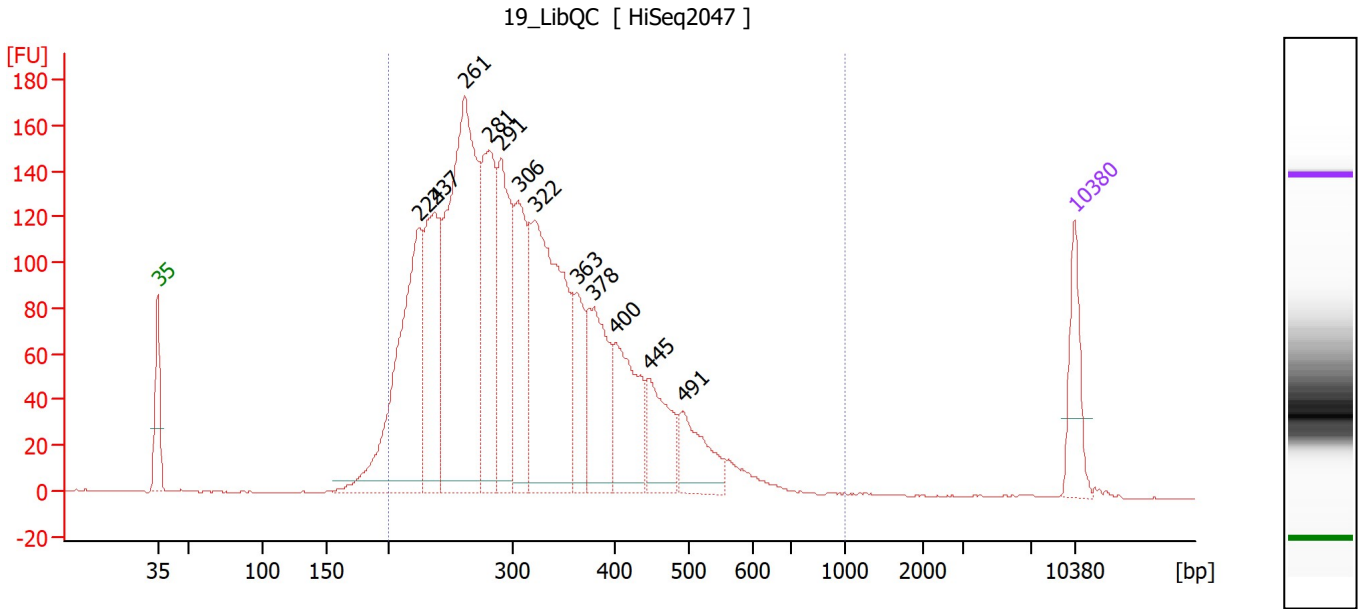
Region table for sample 7 : 18 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,387.2	97	326	29.8	2,757.21	14,134.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 19 LibQC

Number of peaks found: 12 Corr. Area 1: 3,253.8
 Noise: 0.3

Peak table for sample 8 : 19 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	524.25	3,548.8	
3	237	318.94	2,041.1	
4	261	787.01	4,561.6	
5	281	336.30	1,810.9	
6	291	291.57	1,516.2	
7	306	223.13	1,105.7	
8	322	558.66	2,625.8	
9	363	120.08	500.9	
10	378	204.98	820.6	
11	400	186.74	707.4	
12	445	128.72	438.6	
13	491	108.62	335.0	
14	10,380	75.00	10.9	Upper Marker

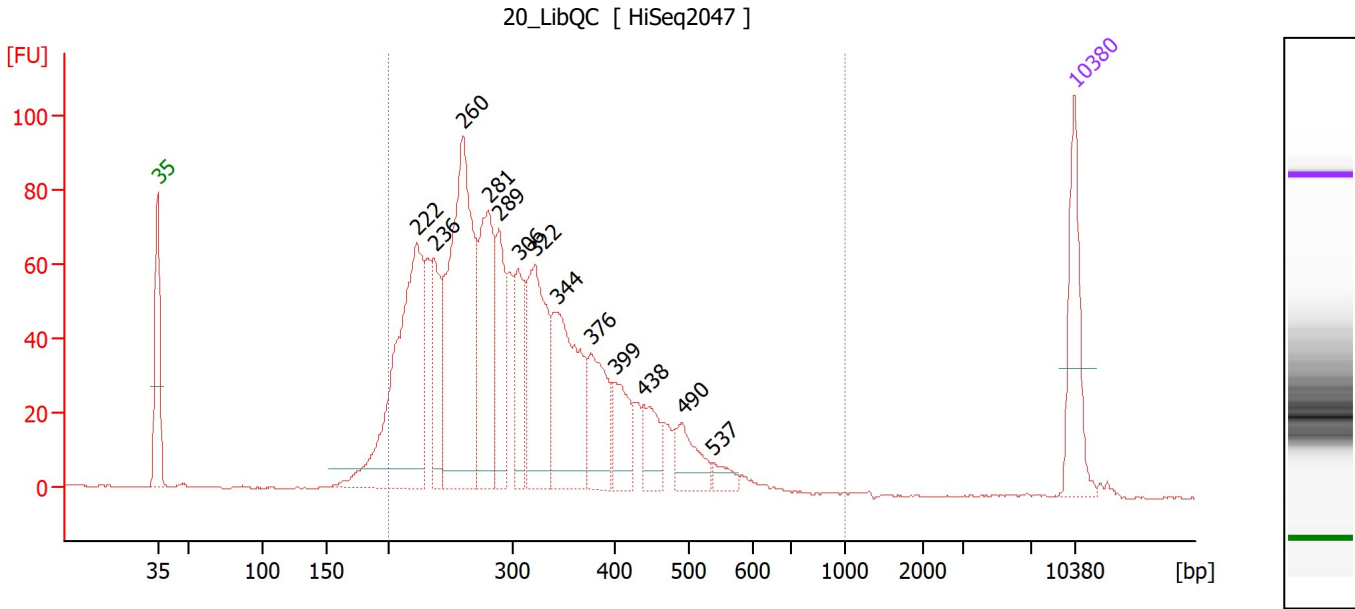
Region table for sample 8 : 19 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,253.8	97	321	27.6	3,762.12	19,309.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 20 LibQC

Number of peaks found: 13 Corr. Area 1: 1,574.9
 Noise: 0.2

Peak table for sample 9 : 20 LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	222	380.37	2,594.5	
3	236	98.80	633.4	
4	260	400.48	2,333.4	
5	281	181.86	981.4	
6	289	108.13	566.8	
7	306	86.76	429.6	
8	322	178.82	841.3	
9	344	183.66	809.6	
10	376	94.27	380.0	
11	399	58.63	222.7	
12	438	46.60	161.3	
13	490	49.54	153.3	
14	537	15.76	44.4	
15	10,380	75.00	10.9	Upper Marker

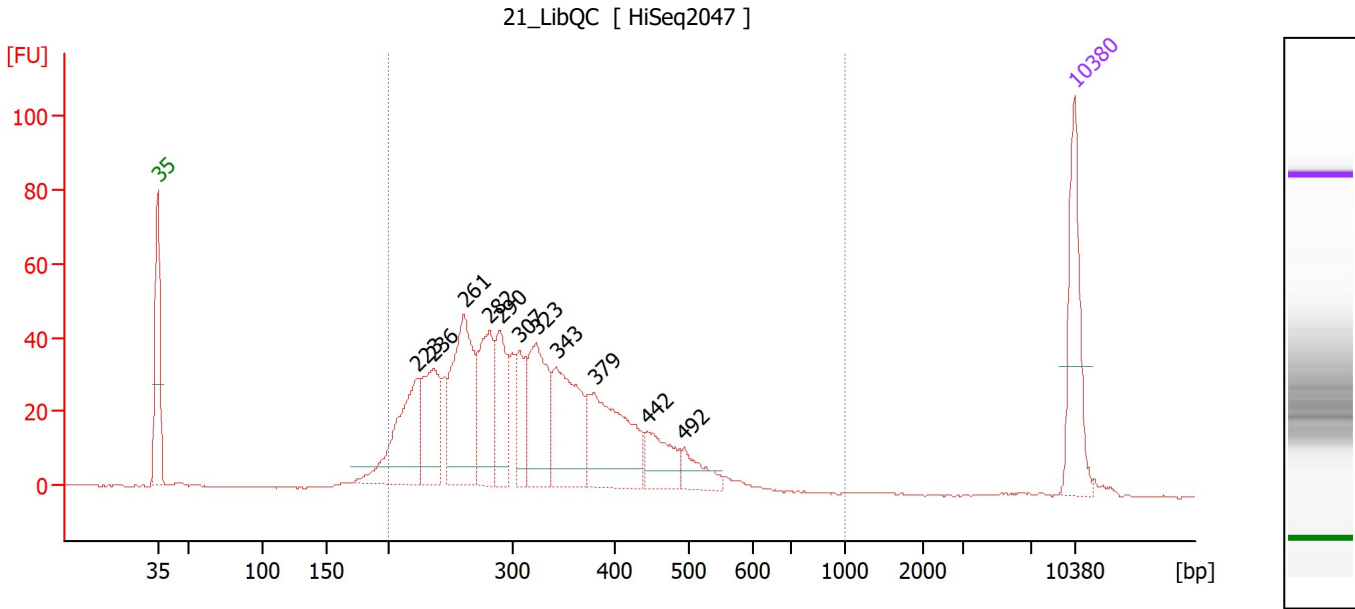
Region table for sample 9 : 20 LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,574.9	96	314	26.8	2,039.08	10,658.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 21_LibQC

Number of peaks found: 11 Corr. Area 1: 925.5
 Noise: 0.2

Peak table for sample 10 : 21_LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	134.55	915.4	
3	236	100.48	645.6	
4	261	174.82	1,015.5	
5	282	109.86	590.9	
6	290	70.25	367.0	
7	307	50.53	249.2	
8	323	119.90	561.8	
9	343	126.09	556.9	
10	379	136.45	545.7	
11	442	49.64	170.0	
12	492	30.48	93.9	
13	10,380	75.00	10.9	Upper Marker

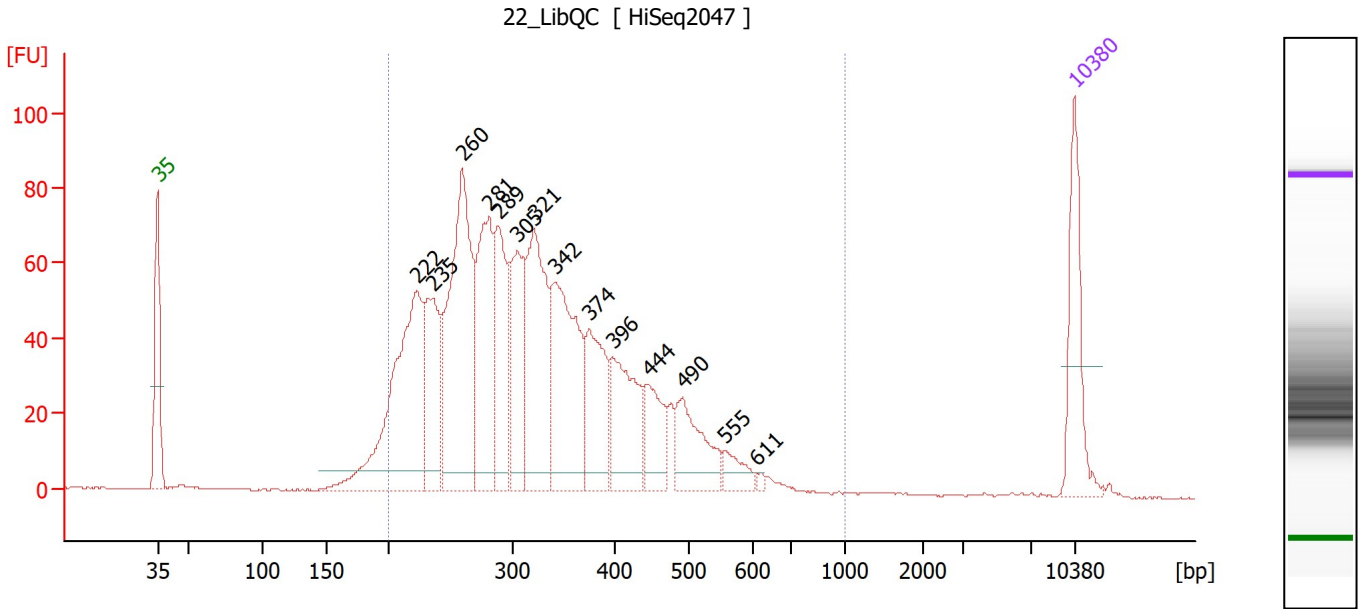
Region table for sample 10 : 21_LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	925.5	96	323	25.6	1,195.47	6,058.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 22_LibQC

Number of peaks found: 14 Corr. Area 1: 1,613.9
 Noise: 0.2

Peak table for sample 11 : 22_LibQC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	222	317.30	2,165.5	
3	235	135.81	874.8	
4	260	326.27	1,902.5	
5	281	189.21	1,020.7	
6	289	137.51	721.8	
7	305	124.84	620.1	
8	321	203.83	961.1	
9	342	212.00	939.6	
10	374	111.43	450.9	
11	396	115.86	442.9	
12	444	62.47	213.3	
13	490	79.52	245.7	
14	555	24.78	67.6	
15	611	3.94	9.8	
16	10,380	75.00	10.9	Upper Marker

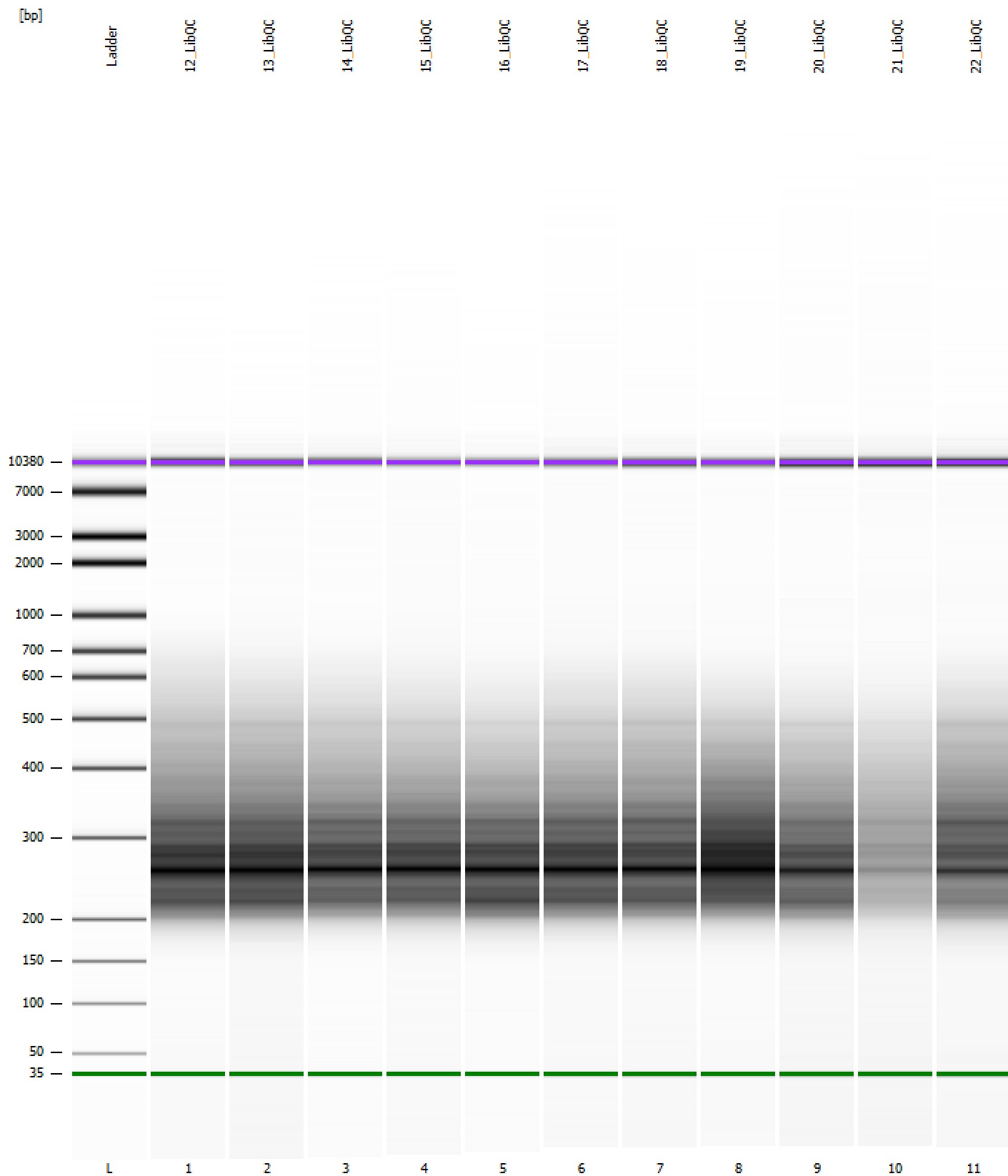
Region table for sample 11 : 22_LibQC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,613.9	96	330	28.4	2,042.94	10,284.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
Modified: 7/28/2020 9:06:57 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_002.xad

Created: 7/28/2020 8:26:31 AM
 Modified: 7/28/2020 9:06:57 AM

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		7/28/2020 9:06:53 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-28\Bioanalyze r1_High Sensitivity DNA Assay_2020-07-28_002.xad)		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/28/2020 8:26:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB