

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-14_002.xad

Created: 1/14/2020 4:55:36 PM
Modified: 1/14/2020 5:36:04 PM

Electrophoresis File Run Summary

Instrument Information:

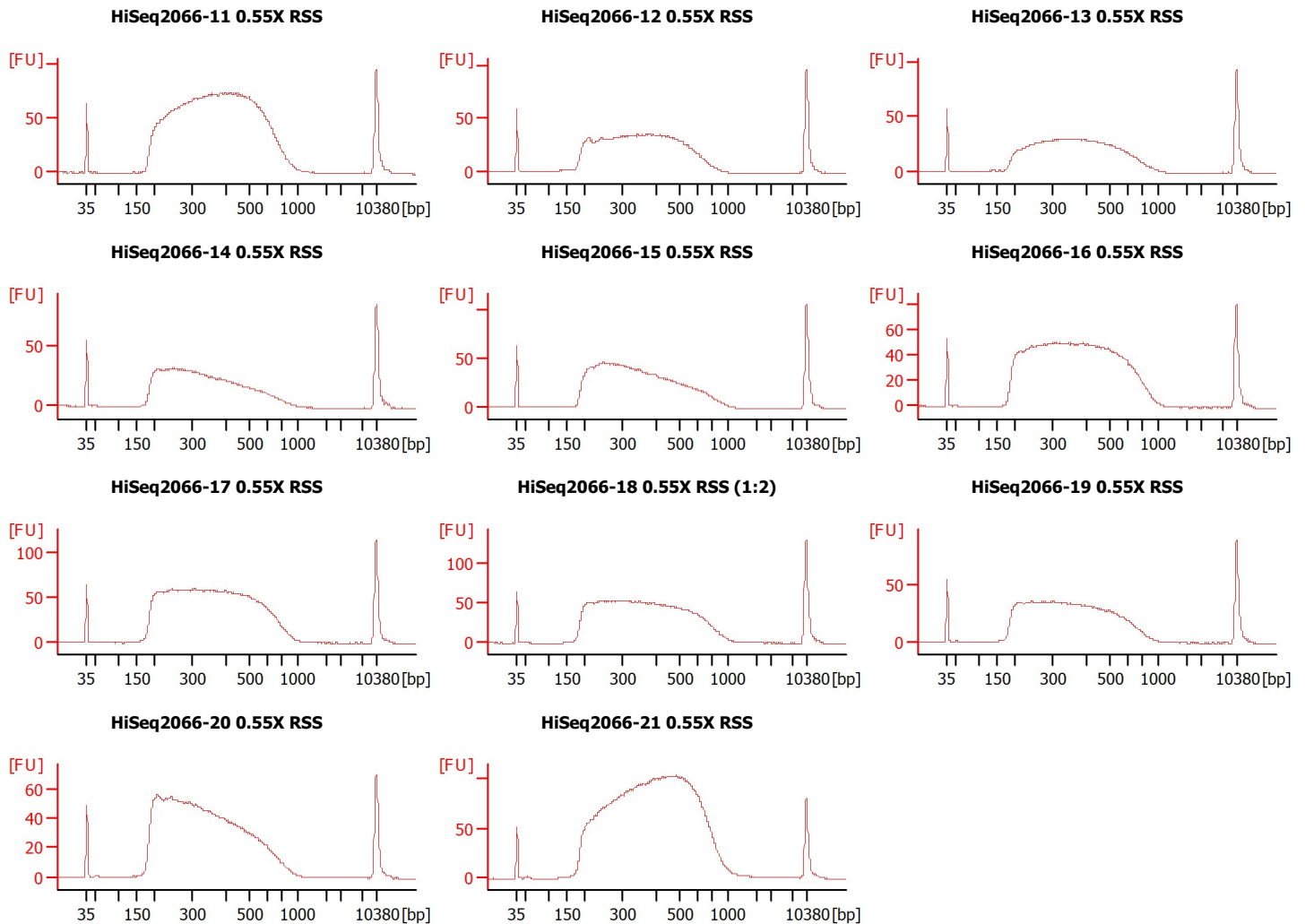
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (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:



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 Modified: 1/14/2020 5:36:04 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq2066-11 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-12 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-13 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-14 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-15 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-16 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-17 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-18 0.55X RSS (1:2)		<input type="checkbox"/>	✓			
HiSeq2066-19 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-20 0.55X RSS		<input type="checkbox"/>	✓			
HiSeq2066-21 0.55X RSS		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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 Modified: 1/14/2020 5:36:04 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

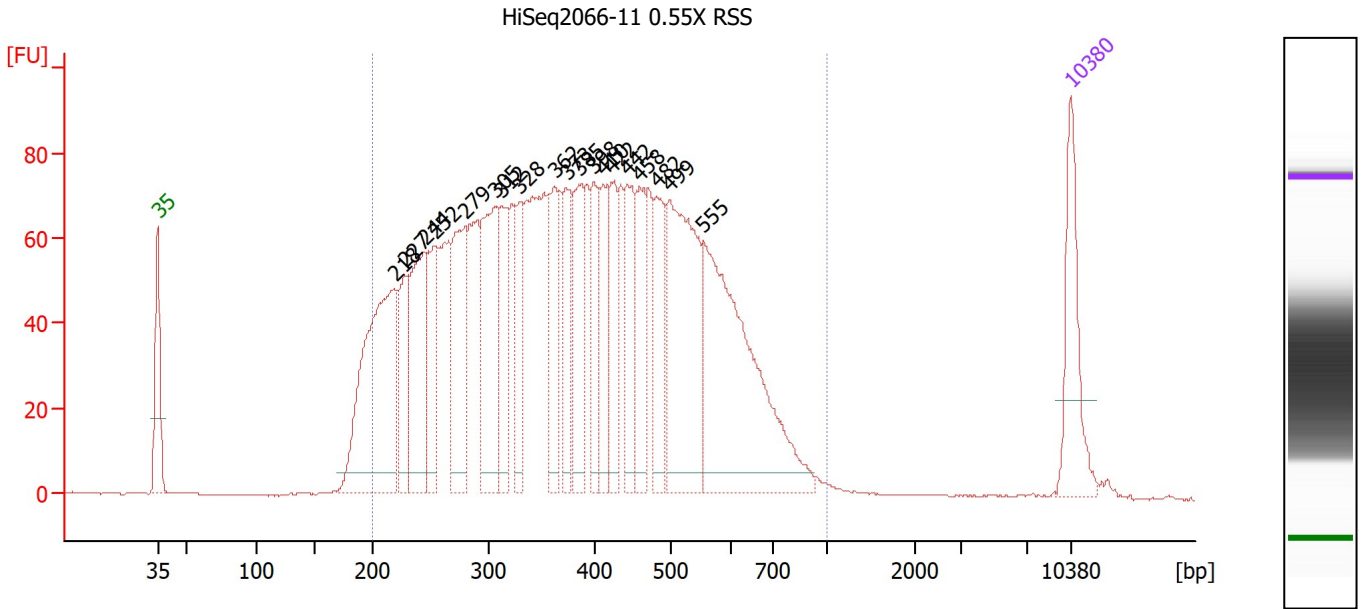
Ladder

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

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 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary



Overall Results for sample 1 : HiSeq2066-11 0.55X RSS

Number of peaks found: 19 Corr. Area 1: 2,627.7
 Noise: 0.2

Peak table for sample 1 : HiSeq2066-11 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	218	330.64	2,295.4	
3	227	84.68	564.9	
4	244	159.89	993.5	
5	252	108.39	651.2	
6	279	154.35	837.2	
7	305	166.95	828.3	
8	312	87.06	423.3	
9	328	73.52	340.0	
10	362	92.55	387.6	
11	373	79.73	324.2	
12	385	94.22	371.2	
13	398	76.36	290.5	
14	410	70.44	260.6	
15	422	84.86	305.0	
16	442	92.43	316.5	
17	458	81.19	268.8	
18	482	86.18	271.1	
19	499	250.70	761.8	
20	555	329.92	900.8	
21	10,380	75.00	10.9	Upper Marker

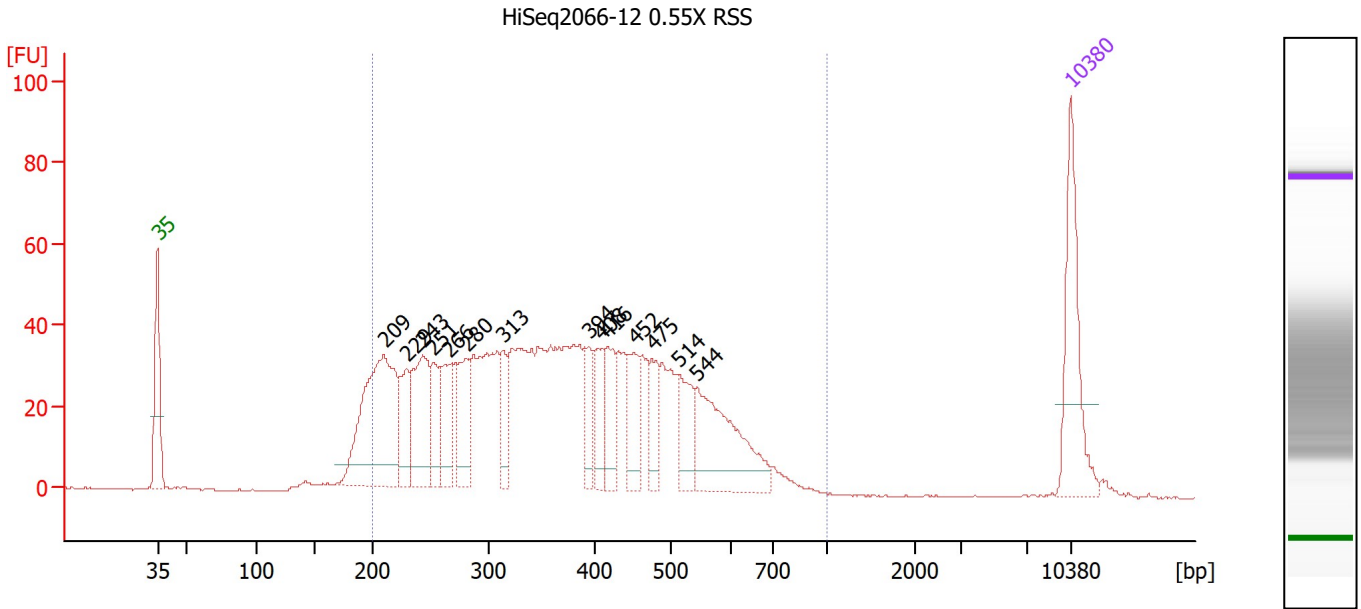
Region table for sample 1 : HiSeq2066-11 0.55X RSS

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	2,627.7	95	402	33.4	3,194.13	14,076.7	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq2066-12 0.55X RSS

Number of peaks found: 14 Corr. Area 1: 1,282.3
 Noise: 0.1

Peak table for sample 2 : HiSeq2066-12 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	209	215.28	1,560.8	
3	229	47.82	316.7	
4	243	100.10	624.7	
5	251	43.08	259.9	
6	266	52.62	300.2	
7	280	58.06	313.9	
8	313	35.66	172.6	
9	394	30.85	118.8	
10	408	41.51	154.0	
11	416	43.59	158.6	
12	452	47.48	159.3	
13	475	32.16	102.5	
14	514	45.80	134.9	
15	544	118.45	330.1	
16	10,380	75.00	10.9	Upper Marker

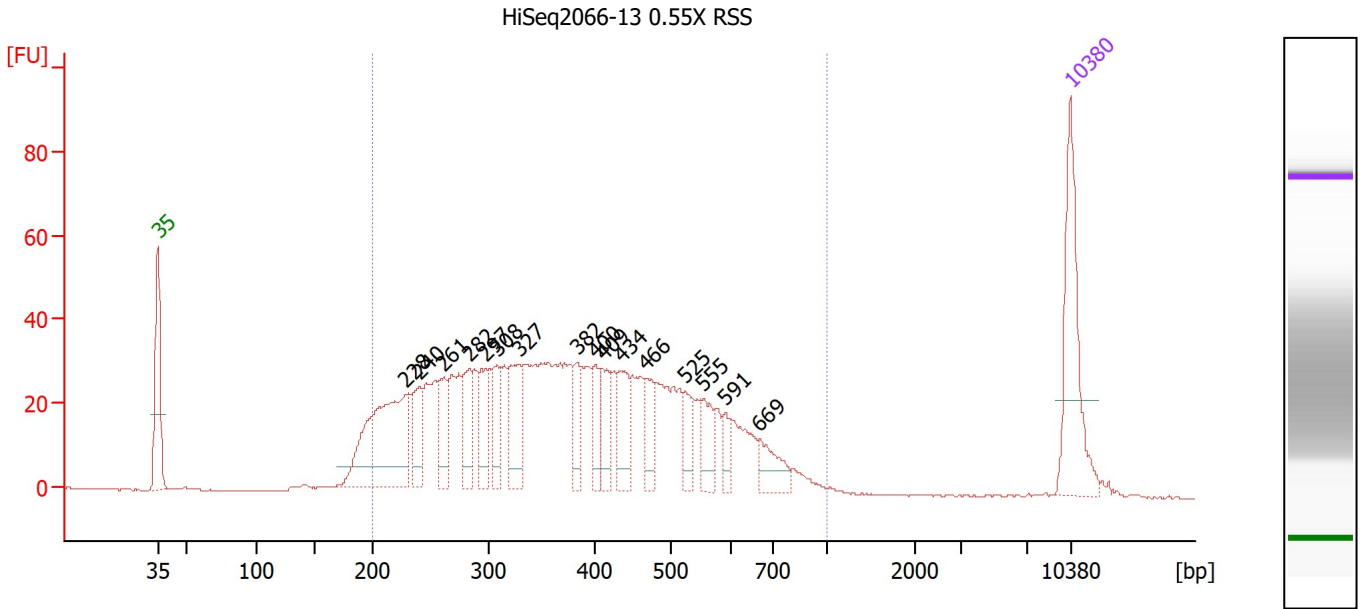
Region table for sample 2 : HiSeq2066-12 0.55X RSS

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	1,282.3	93	383	32.8	1,526.30	7,002.5	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HiSeq2066-13 0.55X RSS

Number of peaks found: 16 Corr. Area 1: 1,095.5
 Noise: 0.2

Peak table for sample 3 : HiSeq2066-13 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	168.94	1,124.7	
3	240	37.90	239.4	
4	261	39.73	231.0	
5	282	40.63	218.0	
6	297	39.90	203.7	
7	308	32.54	160.3	
8	327	52.93	245.0	
9	382	28.05	111.3	
10	400	26.50	100.4	
11	409	31.54	116.9	
12	434	41.68	145.4	
13	466	31.35	101.9	
14	525	22.78	65.7	
15	555	26.09	71.2	
16	591	13.28	34.0	
17	669	27.04	61.3	
18	10,380	75.00	10.9	Upper Marker

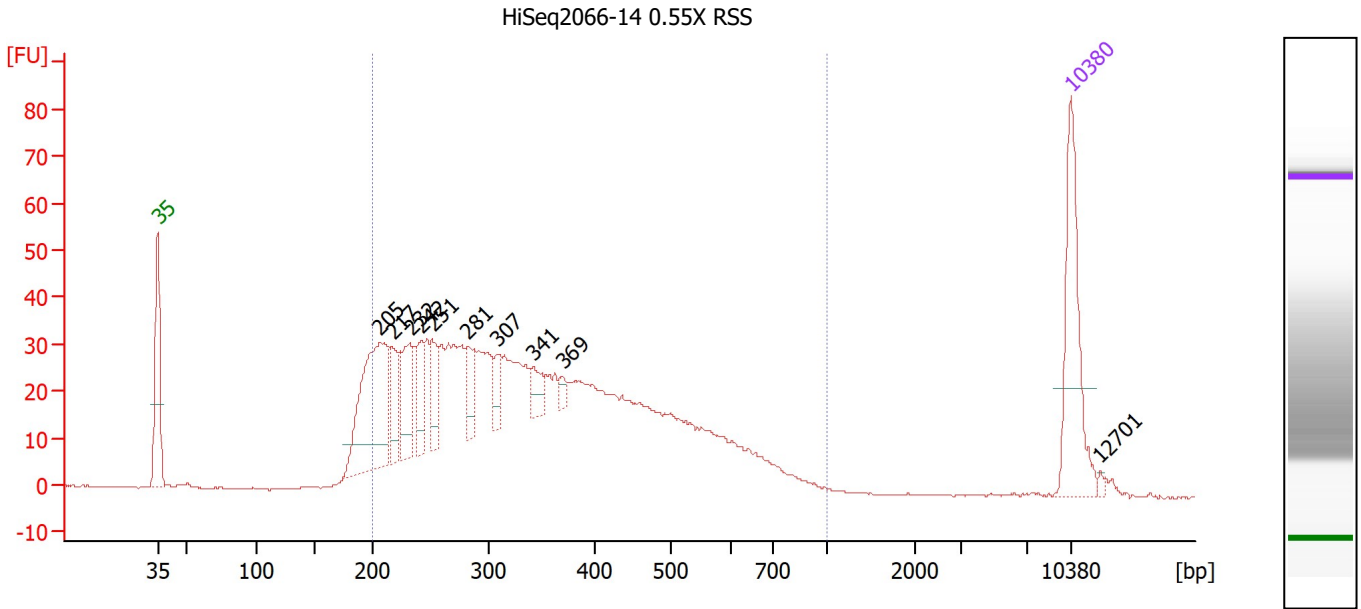
Region table for sample 3 : HiSeq2066-13 0.55X RSS

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	1,095.5	94	398	34.8	1,313.61	5,867.6	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HiSeq2066-14 0.55X RSS

Number of peaks found: 10 Corr. Area 1: 971.0
 Noise: 0.1

Peak table for sample 4 : HiSeq2066-14 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	205	165.36	1,220.2	
3	217	38.11	266.3	
4	232	52.43	342.9	
5	242	34.85	218.6	
6	251	32.80	198.1	
7	281	27.67	149.2	
8	307	19.82	97.7	
9	341	20.32	90.2	
10	369	6.89	28.3	
11	10,380	75.00	10.9	Upper Marker
12	12,701	0.00	0.0	

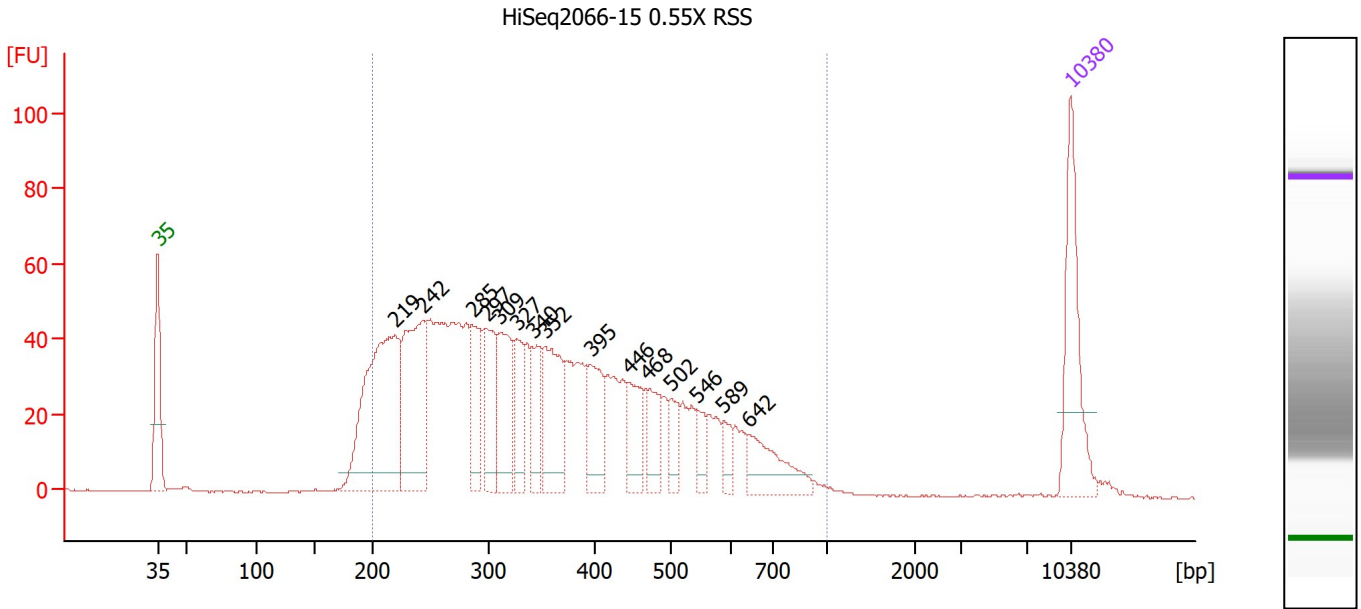
Region table for sample 4 : HiSeq2066-14 0.55X RSS

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	971.0	92	364	36.3	1,305.20	6,335.8	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq2066-15 0.55X RSS

Number of peaks found: 15 Corr. Area 1: 1,436.4
 Noise: 0.2

Peak table for sample 5 : HiSeq2066-15 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	252.00	1,742.1	
3	242	155.27	970.6	
4	285	63.27	335.8	
5	297	67.15	342.1	
6	309	87.03	427.0	
7	327	46.26	214.5	
8	340	43.19	192.3	
9	352	91.62	394.3	
10	395	58.58	224.5	
11	446	42.98	146.1	
12	468	38.21	123.6	
13	502	23.58	71.2	
14	546	18.21	50.6	
15	589	16.69	43.0	
16	642	51.53	121.6	
17	10,380	75.00	10.9	Upper Marker

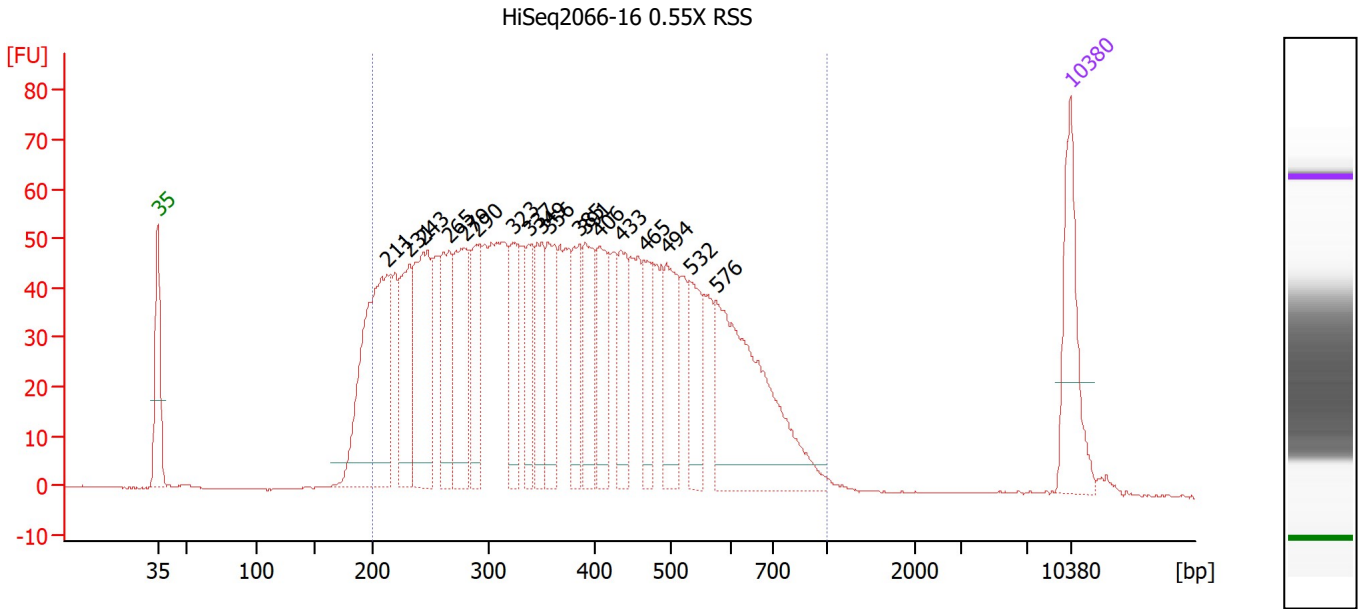
Region table for sample 5 : HiSeq2066-15 0.55X RSS

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	1,436.4	94	373	37.0	1,568.67	7,480.6	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq2066-16 0.55X RSS

Number of peaks found: 18 Corr. Area 1: 1,882.2
 Noise: 0.2

Peak table for sample 6 : HiSeq2066-16 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	211	280.50	2,011.8	
3	231	108.74	713.2	
4	243	171.12	1,065.9	
5	265	102.77	588.1	
6	279	140.00	761.1	
7	290	83.09	434.5	
8	323	77.62	364.0	
9	337	64.83	291.4	
10	349	72.89	316.4	
11	356	81.44	346.5	
12	385	66.60	261.9	
13	391	87.94	340.8	
14	406	76.23	284.4	
15	433	73.37	256.8	
16	465	61.58	200.7	
17	494	87.10	266.9	
18	532	66.55	189.3	
19	576	241.36	634.4	
20	10,380	75.00	10.9	Upper Marker

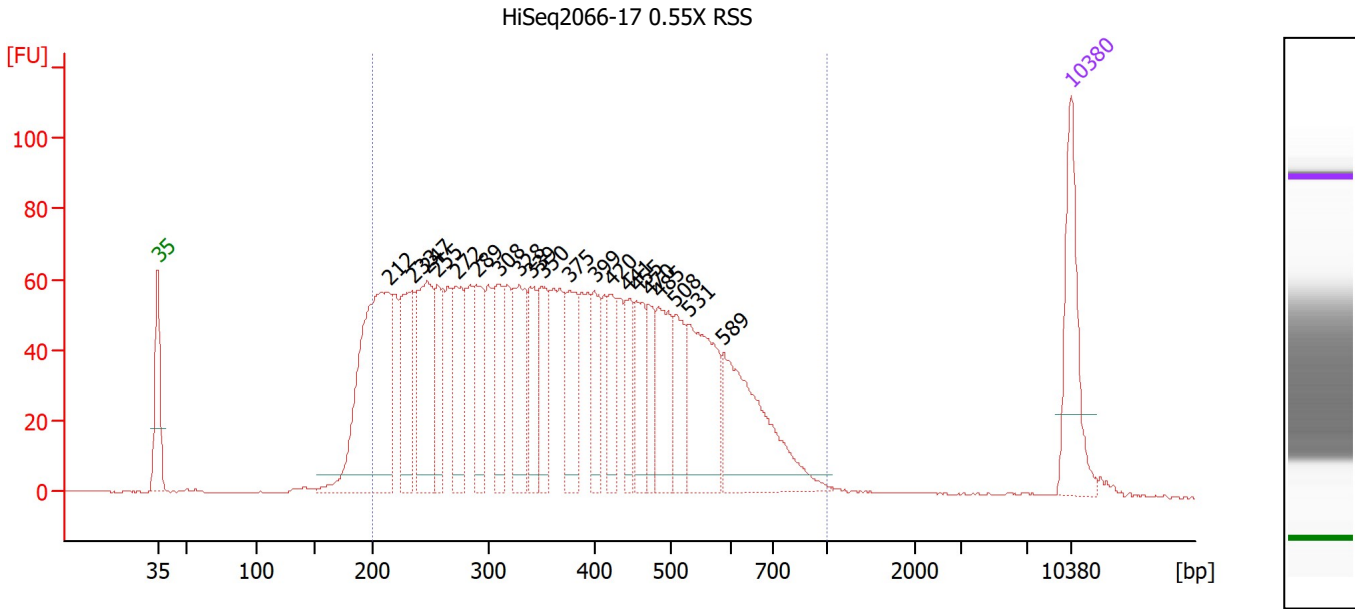
Region table for sample 6 : HiSeq2066-16 0.55X RSS

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	1,882.2	95	400	35.9	2,669.14	12,005.3	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq2066-17 0.55X RSS

Number of peaks found: 20 Corr. Area 1: 2,195.7
 Noise: 0.2

Peak table for sample 7 : HiSeq2066-17 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	212	317.59	2,266.4	
3	233	104.70	680.4	
4	247	148.87	913.8	
5	255	69.91	415.1	
6	272	97.88	544.4	
7	289	69.68	365.2	
8	308	71.80	352.9	
9	328	94.53	436.2	
10	339	61.33	274.4	
11	350	68.54	296.9	
12	375	79.26	320.2	
13	399	48.38	183.7	
14	420	50.71	183.0	
15	441	45.30	155.7	
16	455	57.79	192.2	
17	470	42.75	137.8	
18	485	76.24	238.3	
19	508	59.35	176.9	
20	531	128.16	365.4	
21	589	151.75	390.3	
22	10,380	75.00	10.9	Upper Marker

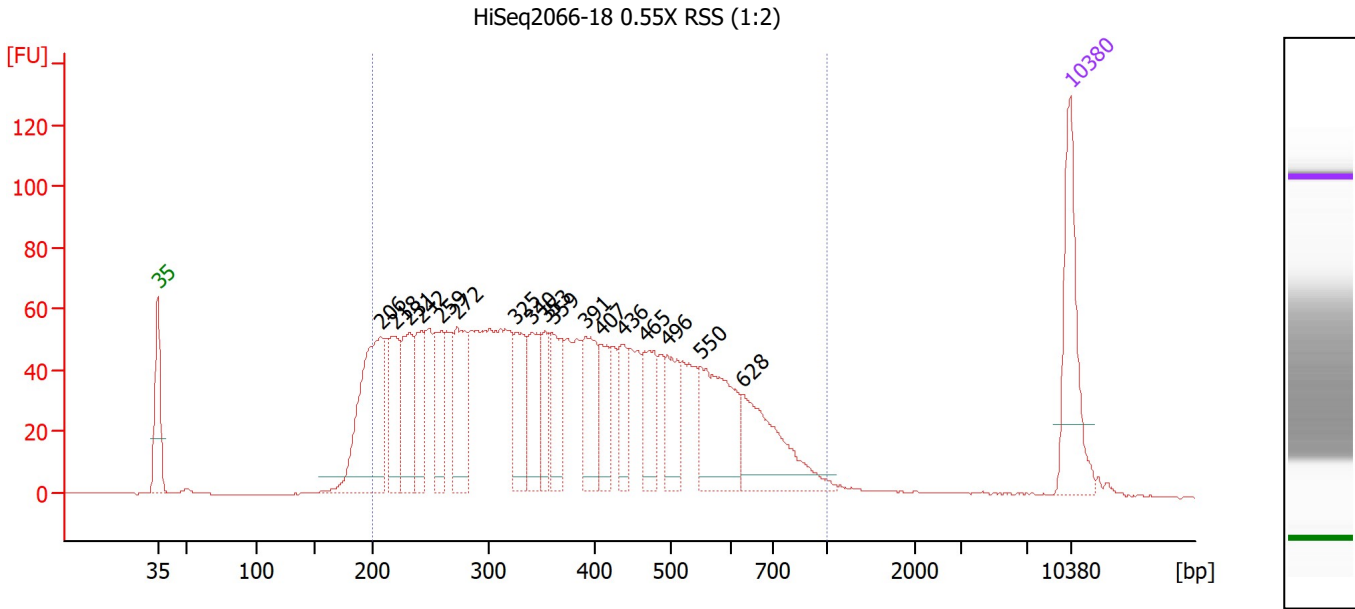
Region table for sample 7 : HiSeq2066-17 0.55X RSS

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	2,195.7	93	390	35.5	2,315.35	10,619.0	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-14_002.xad

Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq2066-18 0.55X RSS (1:2)

Number of peaks found: 17 Corr. Area 1: 2,002.3
 Noise: 0.1

Peak table for sample 8 : HiSeq2066-18 0.55X RSS (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	206	187.09	1,375.0	
3	218	70.49	490.8	
4	231	81.72	536.4	
5	242	59.93	375.7	
6	259	65.82	385.8	
7	272	88.41	492.9	
8	325	69.31	323.1	
9	340	60.22	268.2	
10	353	42.60	183.1	
11	359	62.88	265.3	
12	391	68.87	267.1	
13	407	43.01	160.0	
14	436	36.60	127.2	
15	465	53.92	175.5	
16	496	47.83	146.1	
17	550	107.24	295.5	
18	628	96.34	232.6	
19	10,380	75.00	10.9	Upper Marker

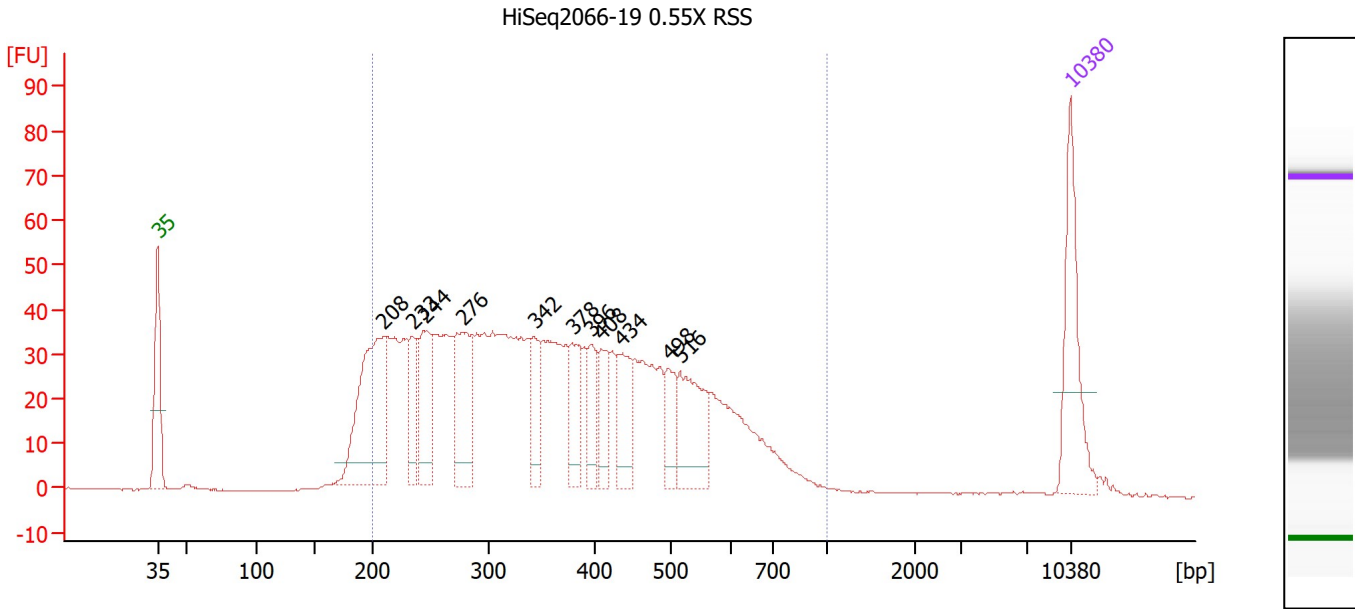
Region table for sample 8 : HiSeq2066-18 0.55X RSS (1:2)

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	2,002.3	92	397	37.2	1,795.41	8,182.9	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq2066-19 0.55X RSS

Number of peaks found: 11 Corr. Area 1: 1,243.8
 Noise: 0.1

Peak table for sample 9 : HiSeq2066-19 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	208	197.07	1,432.8	
3	233	54.84	356.2	
4	244	84.95	528.4	
5	276	102.16	560.1	
6	342	42.65	188.7	
7	378	55.18	221.1	
8	396	38.46	147.1	
9	408	39.90	148.3	
10	434	52.80	184.5	
11	498	36.05	109.7	
12	516	82.33	241.6	
13	10,380	75.00	10.9	Upper Marker

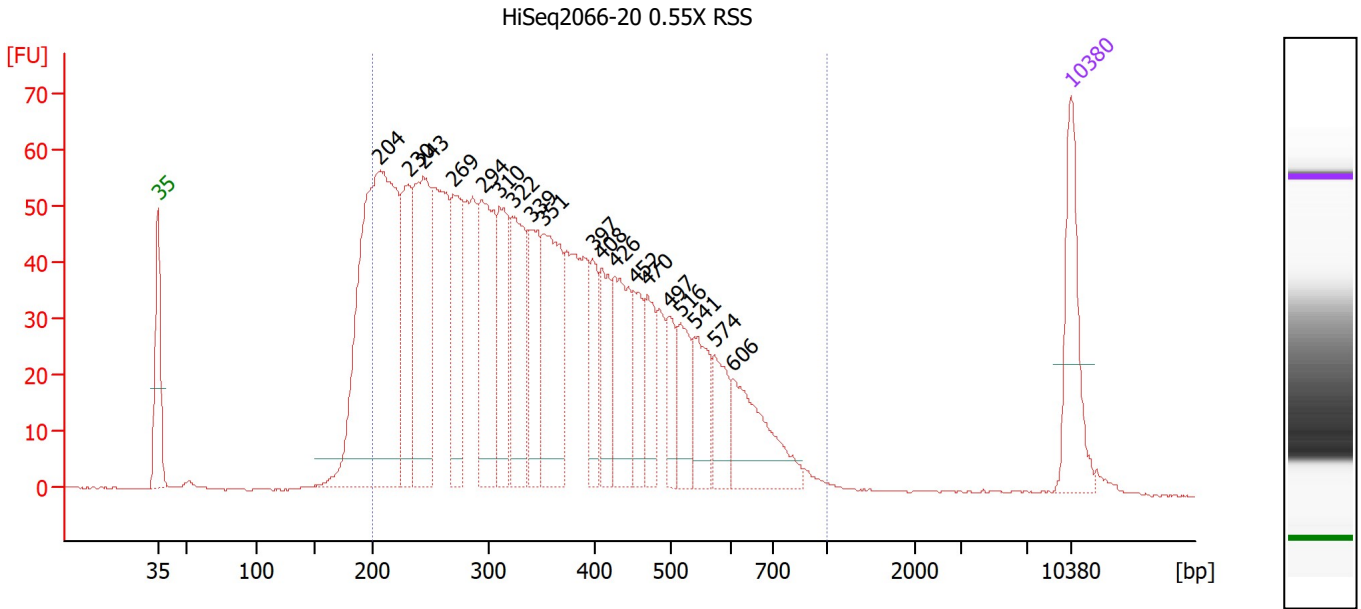
Region table for sample 9 : HiSeq2066-19 0.55X RSS

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	1,243.8	93	382	35.4	1,709.90	7,966.0	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq2066-20 0.55X RSS

Number of peaks found: 19 Corr. Area 1: 1,676.8
 Noise: 0.1

Peak table for sample 10 : HiSeq2066-20 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	204	595.40	4,415.7	
3	230	129.66	854.8	
4	243	207.78	1,294.6	
5	269	121.15	681.6	
6	294	163.34	842.9	
7	310	111.12	543.8	
8	322	138.06	650.6	
9	339	96.07	429.7	
10	351	160.26	691.1	
11	397	57.26	218.5	
12	408	65.56	243.5	
13	426	109.28	388.9	
14	452	50.74	170.1	
15	470	57.57	185.8	
16	497	39.81	121.4	
17	516	54.84	161.1	
18	541	58.91	165.1	
19	574	48.31	127.6	
20	606	95.48	238.8	
21	10,380	75.00	10.9	Upper Marker

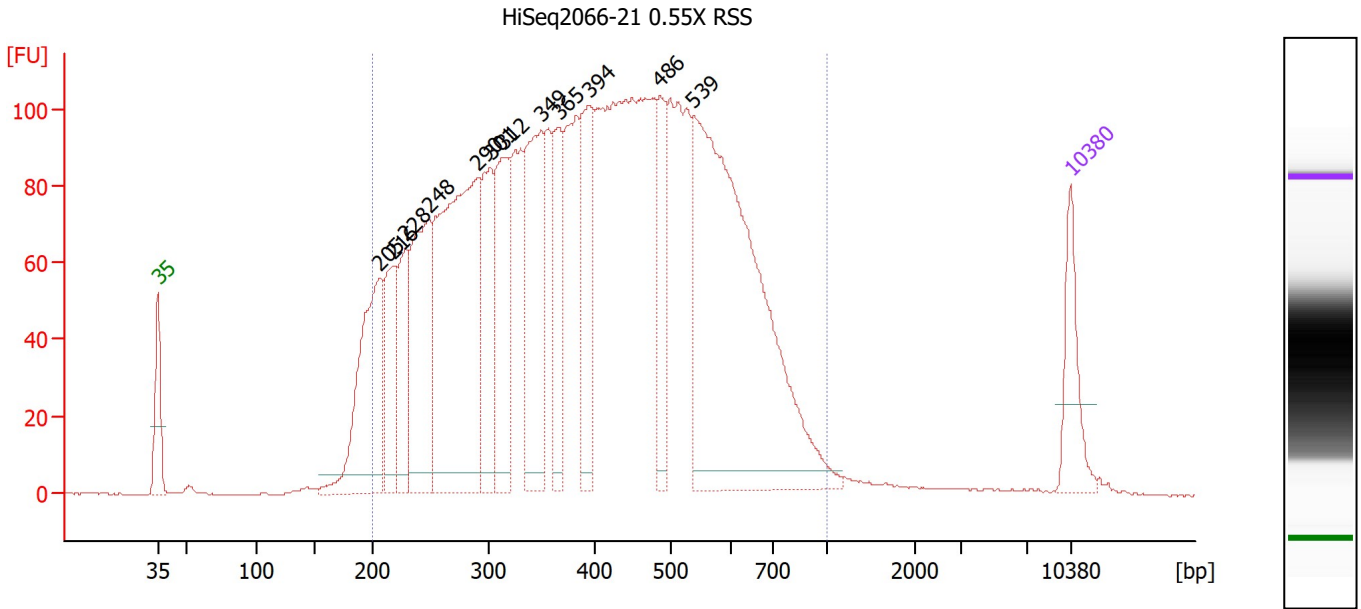
Region table for sample 10 : HiSeq2066-20 0.55X RSS

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	1,676.8	91	367	35.9	2,762.54	13,333.7	Blue

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Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq2066-21 0.55X RSS

Number of peaks found: 12 Corr. Area 1: 3,481.0
 Noise: 0.1

Peak table for sample 11 : HiSeq2066-21 0.55X RSS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	205	329.44	2,440.0	
3	216	153.92	1,078.8	
4	228	141.21	939.4	
5	248	296.70	1,813.4	
6	290	640.83	3,347.9	
7	301	189.96	955.9	
8	312	231.68	1,123.6	
9	349	276.48	1,200.2	
10	365	136.68	567.4	
11	394	183.53	706.4	
12	486	128.28	400.1	
13	539	867.67	2,439.9	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : HiSeq2066-21 0.55X RSS

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	3,481.0	95	421	34.3	5,163.30	21,950.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-14_002.xad

Created: 1/14/2020 4:55:36 PM
Modified: 1/14/2020 5:36:04 PM

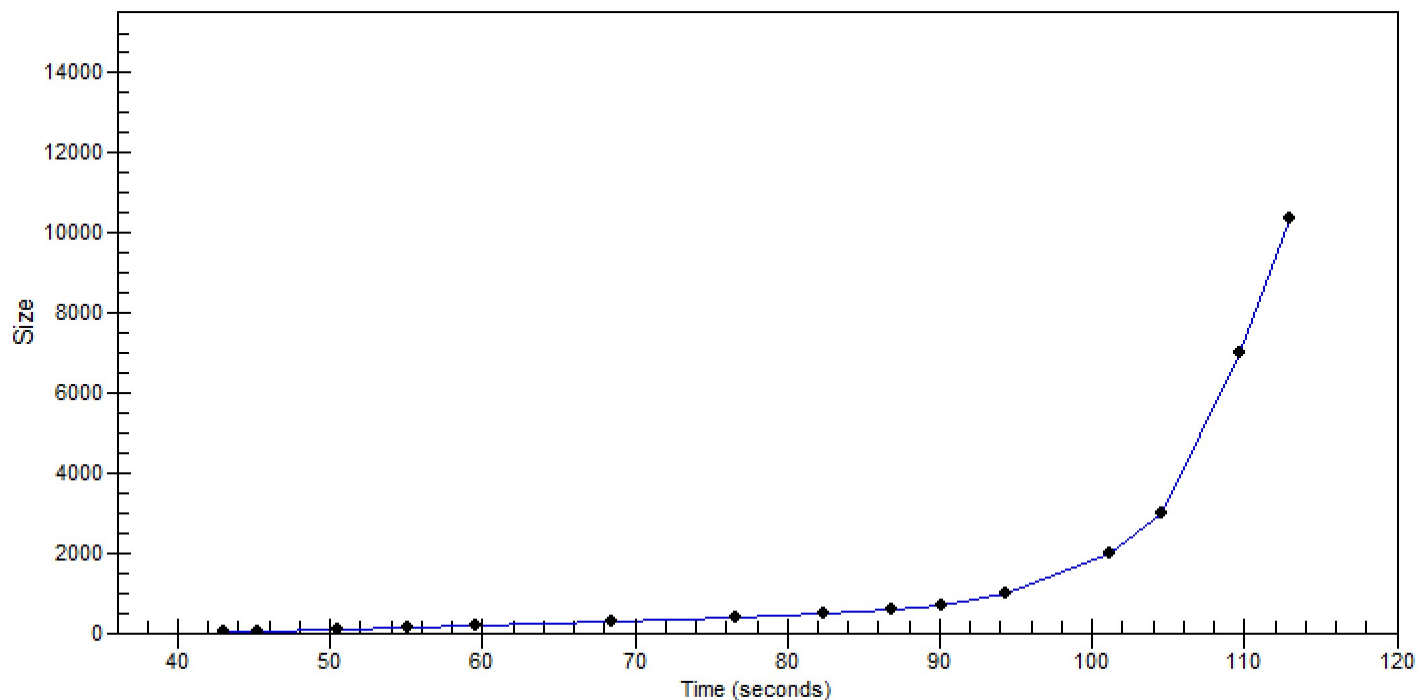
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-14_002.xad

Created: 1/14/2020 4:55:36 PM
Modified: 1/14/2020 5:36:04 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-14_002.xad

Created: 1/14/2020 4:55:36 PM
 Modified: 1/14/2020 5:36:04 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		1/14/2020 5:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-14\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-14_002.xad)		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/14/2020 4:55:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB