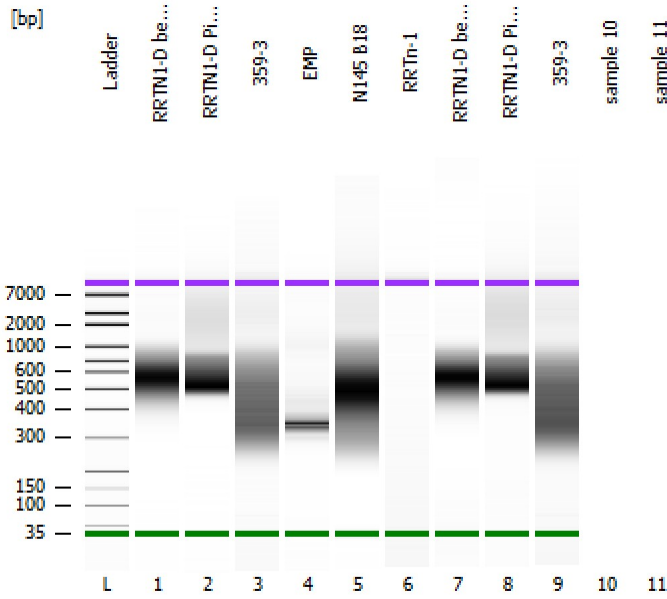


Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 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

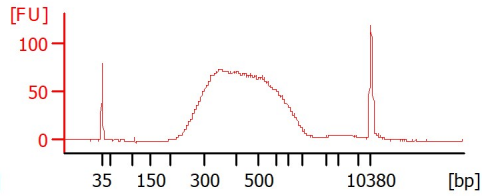
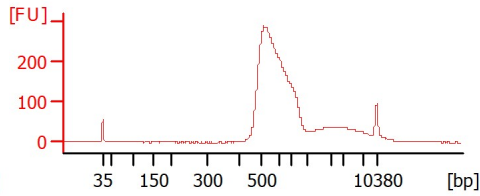
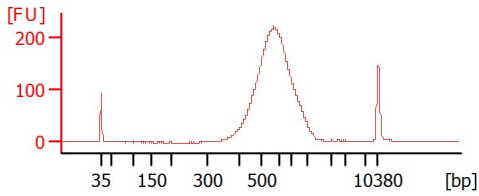
Chip Information:

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

RRTN1-D bead SS Lib

RRTN1-D PippinHT SS Lib

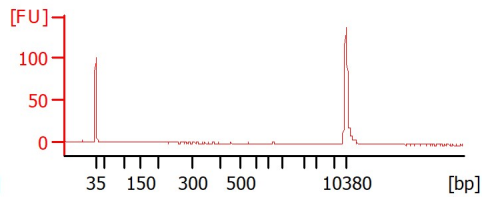
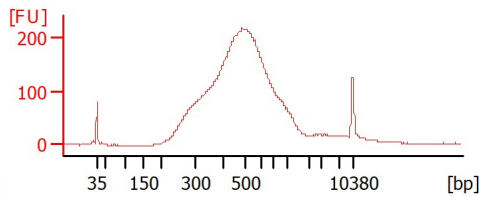
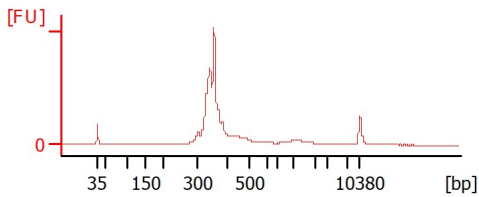
359-3



EMP

N145 B18

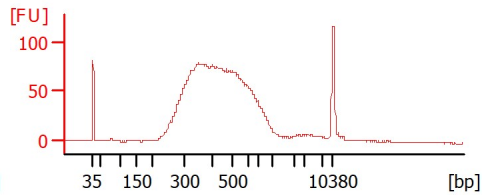
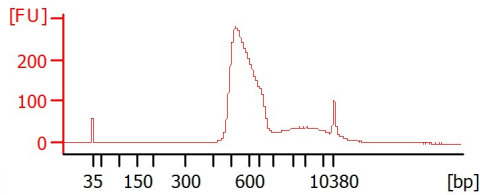
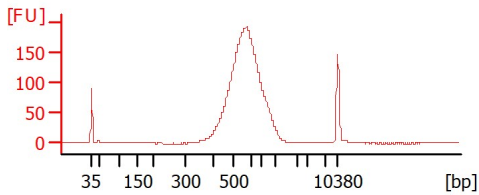
RRTn-1



RRTN1-D bead SS Lib

RRTN1-D PippinHT SS Lib

359-3



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RRTN1-D bead SS Lib		<input type="checkbox"/>	✓			
RRTN1-D PippinHT SS Lib		<input type="checkbox"/>	✓			
359-3		<input type="checkbox"/>	✓			
EMP		<input type="checkbox"/>	✓			
N145 B18		<input type="checkbox"/>	✓			
RRTn-1		<input type="checkbox"/>	✓			
RRTN1-D bead SS Lib		<input type="checkbox"/>	✓			
RRTN1-D PippinHT SS Lib		<input type="checkbox"/>	✓			
359-3		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<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_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 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

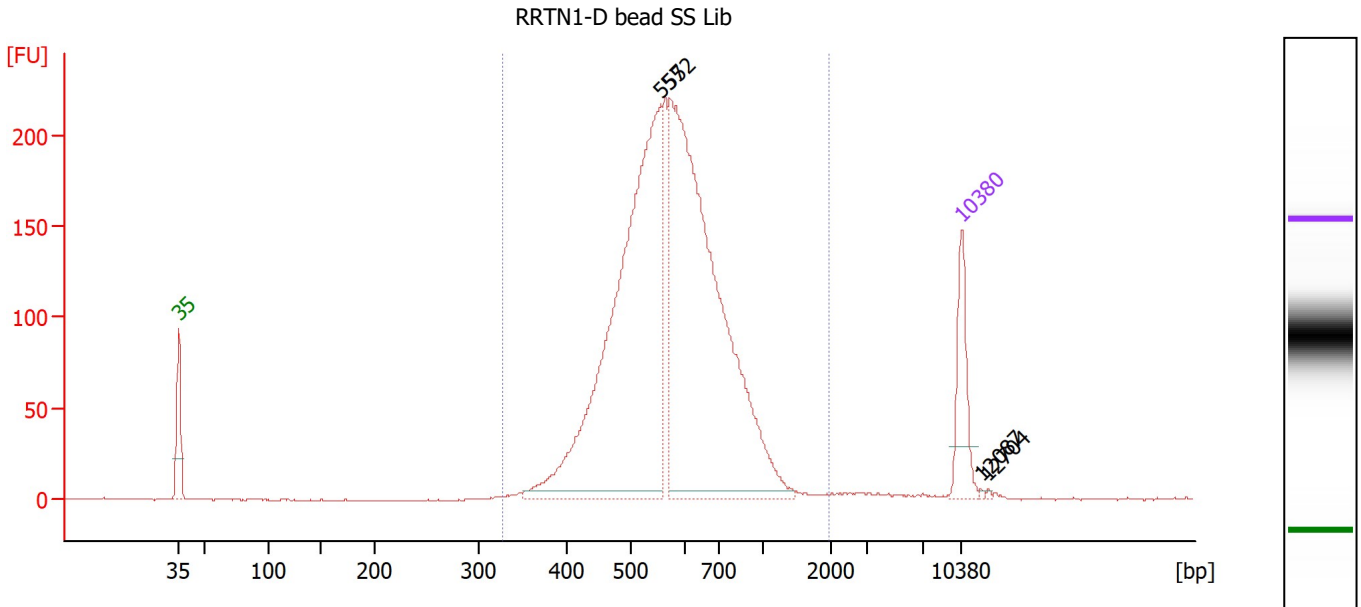
Ladder

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_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary



Overall Results for sample 1 : RRTN1-D bead SS Lib

Number of peaks found: 4 Corr. Area 1: 2,672.1
 Noise: 0.3

Peak table for sample 1 : RRTN1-D bead SS Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	555	918.48	2,506.4	
3	572	984.74	2,606.6	
4	10,380	75.00	10.9	Upper Marker
5	12,087	0.00	0.0	
6	12,704	0.00	0.0	

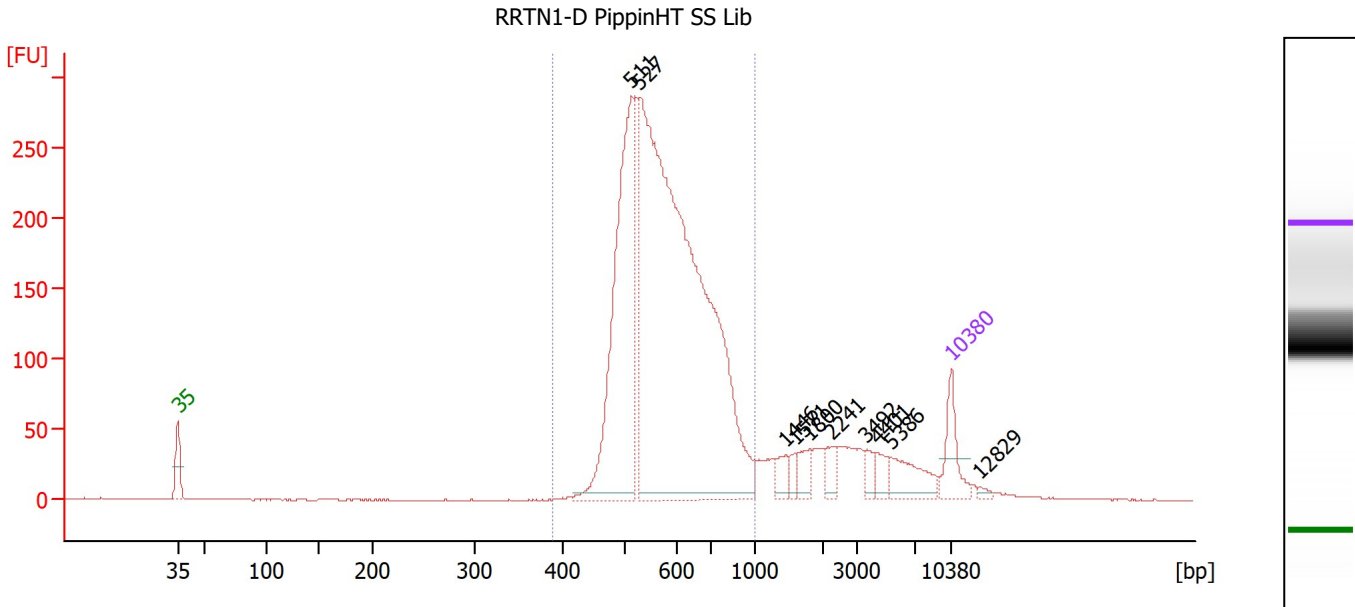
Region table for sample 1 : RRTN1-D bead SS Lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
327	1,954	2,672.1	99	600	25.4	2,022.52	5,431.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RRTN1-D PippinHT SS Lib

Number of peaks found: 10 Corr. Area 1: 2,804.3
 Noise: 0.4

Peak table for sample 2 : RRTN1-D PippinHT SS Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	511	797.14	2,362.0	
3	527	2,288.71	6,584.2	
4	1,446	34.10	35.7	
5	1,571	22.61	21.8	
6	1,800	36.65	30.9	
7	2,241	33.18	22.4	
8	3,492	28.69	12.4	
9	4,401	30.14	10.4	
10	5,386	83.43	23.5	
11	10,380	75.00	10.9	Upper Marker
12	12,829	0.00	0.0	

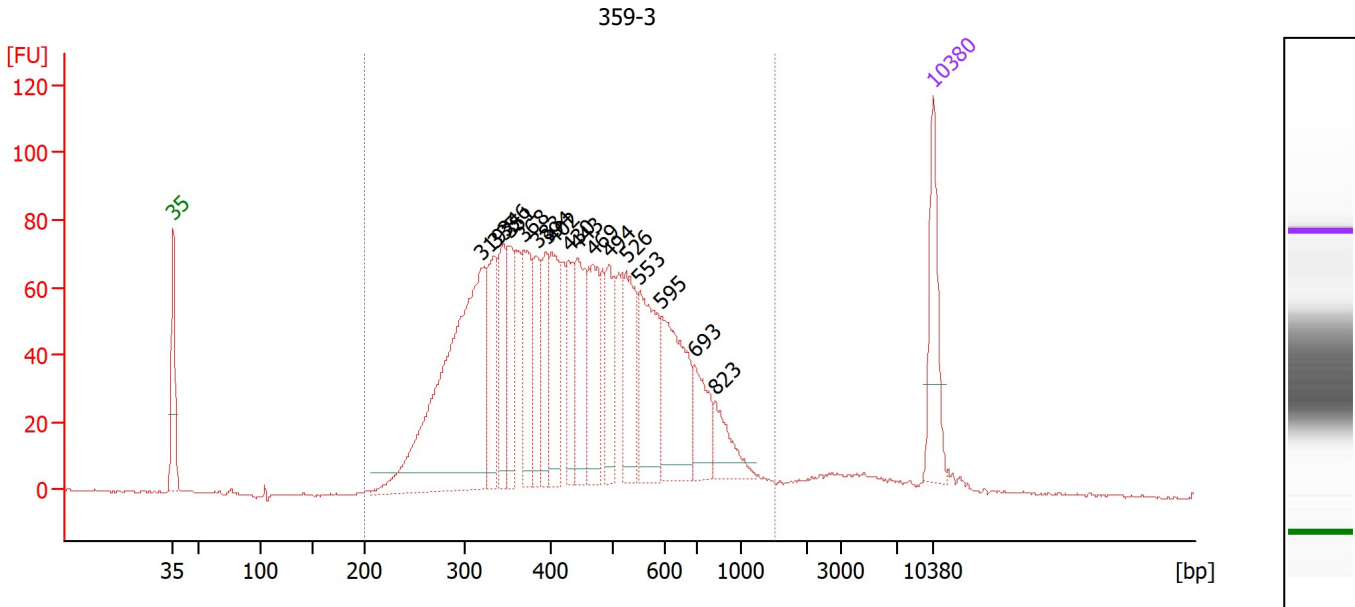
Region table for sample 2 : RRTN1-D PippinHT SS Lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
388	1,000	2,804.3	84	594	17.6	3,045.52	8,029.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 359-3

Number of peaks found: 17 Corr. Area 1: 2,142.7
 Noise: 0.3

Peak table for sample 3 : 359-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	319	533.45	2,536.9	
3	335	114.27	516.5	
4	346	99.60	436.5	
5	351	86.89	374.8	
6	368	113.95	468.5	
7	383	66.91	264.5	
8	394	71.00	272.8	
9	402	104.02	391.7	
10	430	70.67	249.0	
11	443	101.51	347.3	
12	469	110.64	357.7	
13	494	85.18	261.5	
14	526	104.33	300.8	
15	553	133.65	366.4	
16	595	146.68	373.4	
17	693	60.99	133.3	
18	823	47.12	86.7	
19	10,380	75.00	10.9	Upper Marker

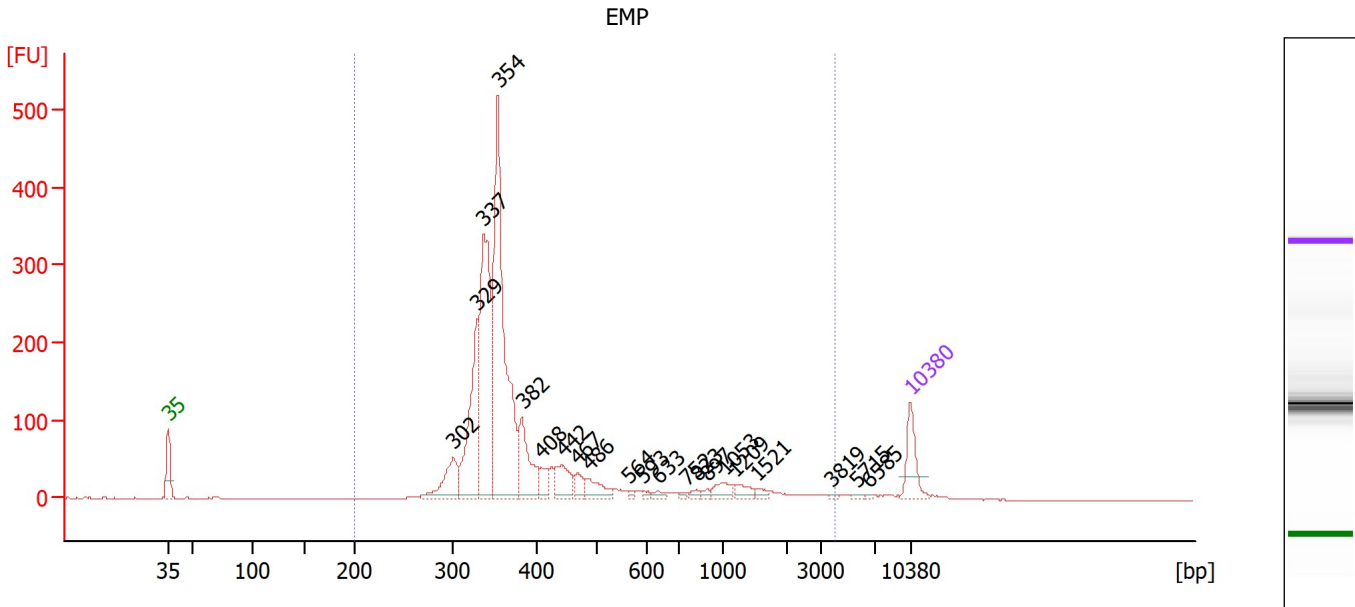
Region table for sample 3 : 359-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,526	2,142.7	95	463	36.5	2,477.35	9,379.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EMP

Number of peaks found: 21 Corr. Area 1: 2,503.9
 Noise: 0.3

Peak table for sample 4 : EMP

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	302	132.09	663.5	
3	329	338.54	1,557.1	
4	337	557.50	2,506.6	
5	354	858.03	3,672.1	
6	382	170.69	676.2	
7	408	40.40	150.0	
8	442	89.42	306.2	
9	467	36.93	119.8	
10	486	58.88	183.7	
11	564	7.86	21.1	
12	593	8.40	21.5	
13	633	12.89	30.8	
14	752	6.27	12.6	
15	823	11.74	21.6	
16	897	9.57	16.2	
17	1,053	35.04	50.4	
18	1,209	24.35	30.5	
19	1,521	11.82	11.8	
20	3,819	3.10	1.2	
21	5,715	5.15	1.4	
22	6,585	2.40	0.6	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...

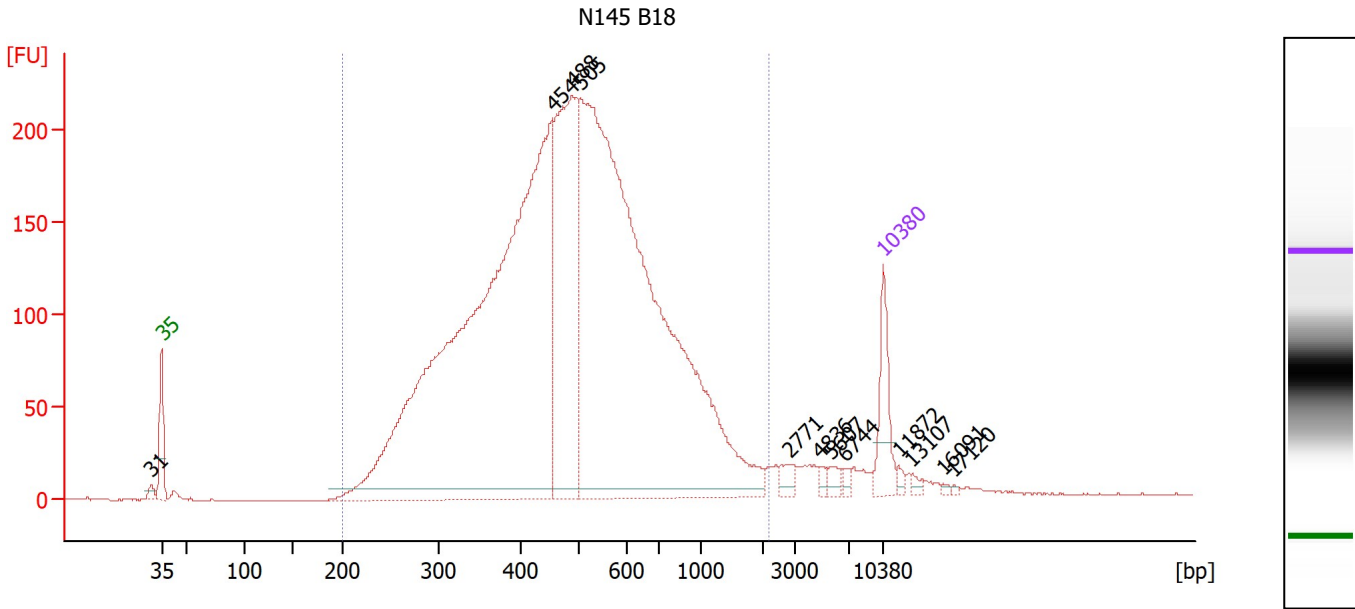
... Region table for sample 4 :

				<u>EMP</u>				
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	4,083	2,503.9	97	474	84.0	2,553.57	10,339.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : N145 B18

Number of peaks found: 12 Corr. Area 1: 5,101.8
 Noise: 0.2

Peak table for sample 5 : N145 B18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	454	2,124.43	7,090.7	
4	488	609.91	1,892.2	
5	505	2,087.71	6,269.2	
6	2,771	19.37	10.6	
7	4,836	8.90	2.8	
8	5,607	14.56	3.9	
9	6,744	7.22	1.6	
10	10,380	75.00	10.9	Upper Marker
11	11,872	0.00	0.0	
12	13,107	0.00	0.0	
13	16,091	0.00	0.0	
14	17,120	0.00	0.0	

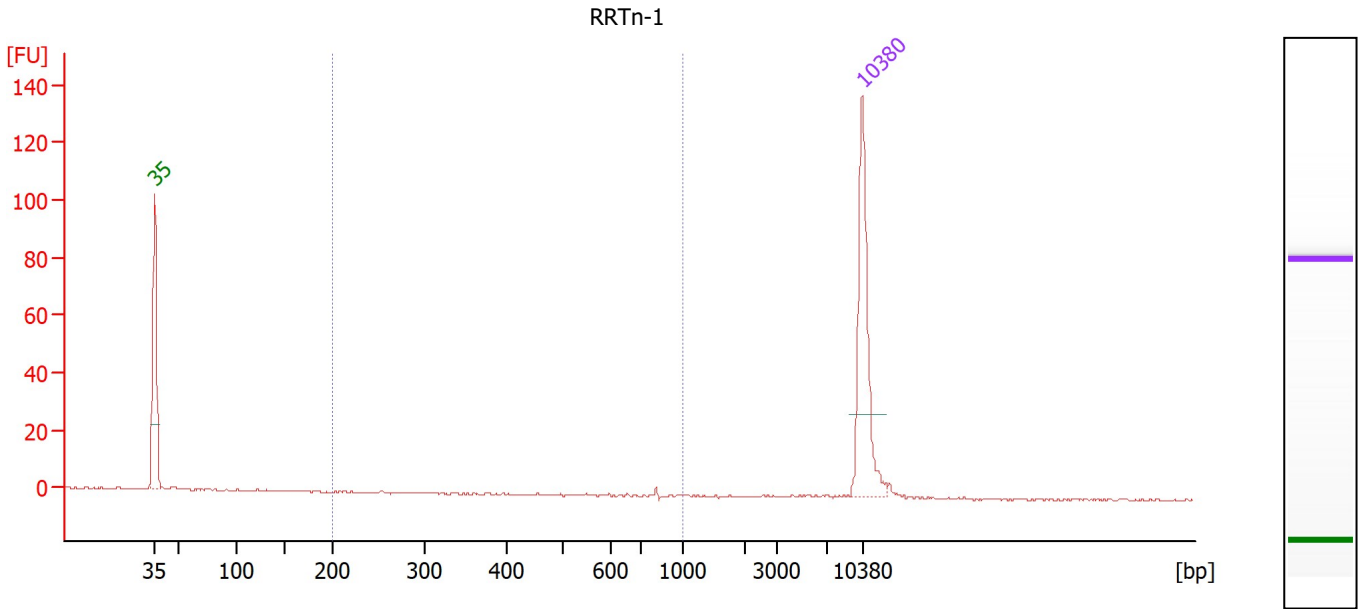
Region table for sample 5 : N145 B18

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,142	5,101.8	96	534	47.2	4,849.40	16,758.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RRTn-1

Number of peaks found: 0 Corr. Area 1: 0.4
 Noise: 0.3

Peak table for sample 6 : RRTn-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

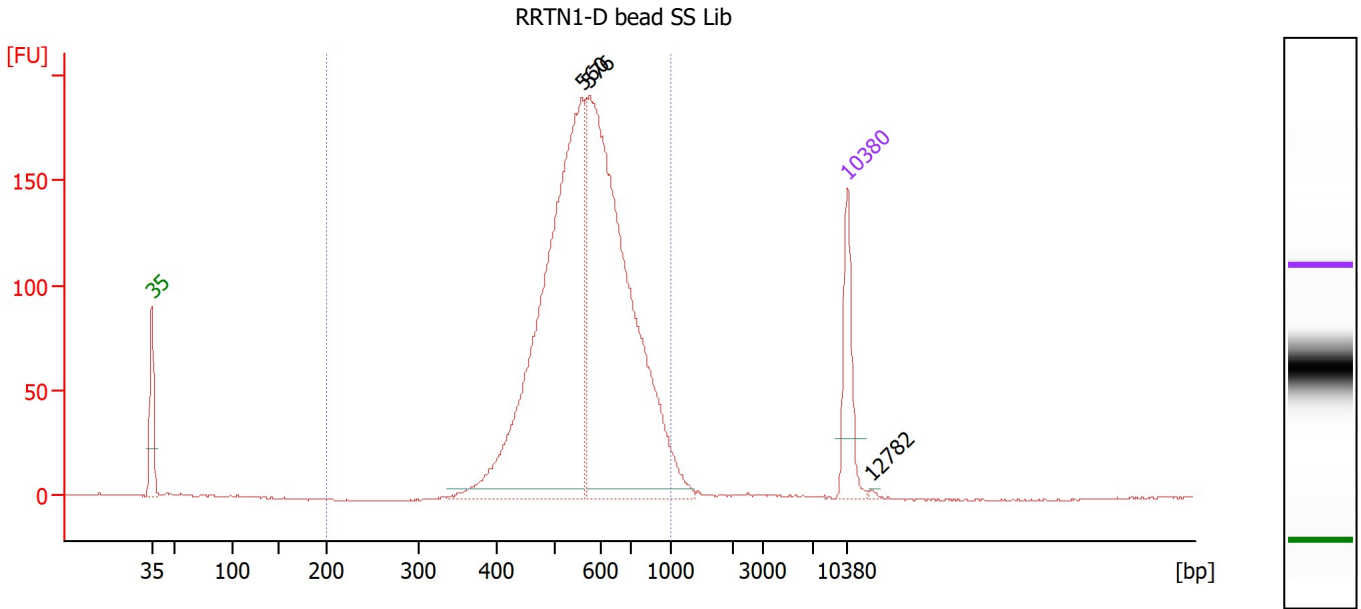
Region table for sample 6 : RRTn-1

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	0.4	6	805	1.7	0.28	0.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RRTN1-D bead SS Lib

Number of peaks found: 3 Corr. Area 1: 2,126.5
 Noise: 0.2

Peak table for sample 7 : RRTN1-D bead SS Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	560	826.47	2,237.4	
3	576	832.55	2,191.5	
4	10,380	75.00	10.9	Upper Marker
5	12,782	0.00	0.0	

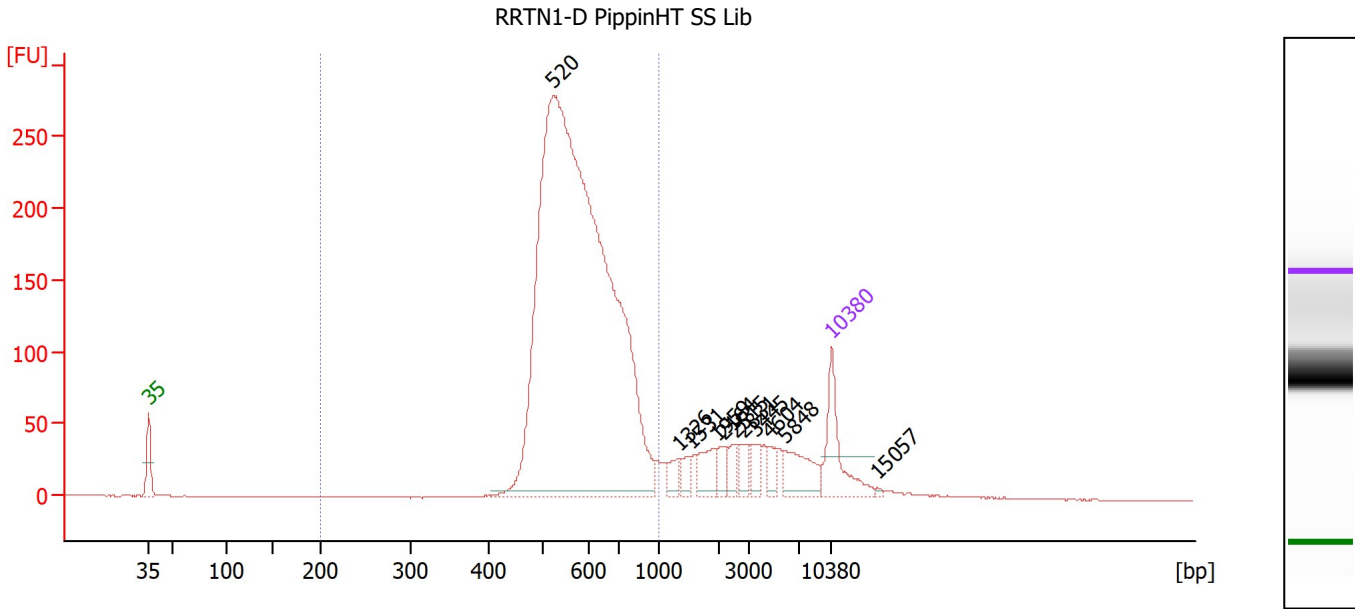
Region table for sample 7 : RRTN1-D bead SS Lib

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	2,126.5	98	587	19.5	1,643.86	4,434.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RRTN1-D PippinHT SS Lib

Number of peaks found: 11 Corr. Area 1: 2,601.9
 Noise: 0.3

Peak table for sample 8 : RRTN1-D PippinHT SS Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	520	2,003.60	5,836.6	
3	1,326	20.87	23.9	
4	1,531	17.56	17.4	
5	1,959	36.63	28.3	
6	2,164	20.33	14.2	
7	2,515	20.70	12.5	
8	2,831	23.10	12.4	
9	3,445	19.58	8.6	
10	4,604	19.47	6.4	
11	5,848	56.87	14.7	
12	10,380	75.00	10.9	Upper Marker
13	15,057	0.00	0.0	

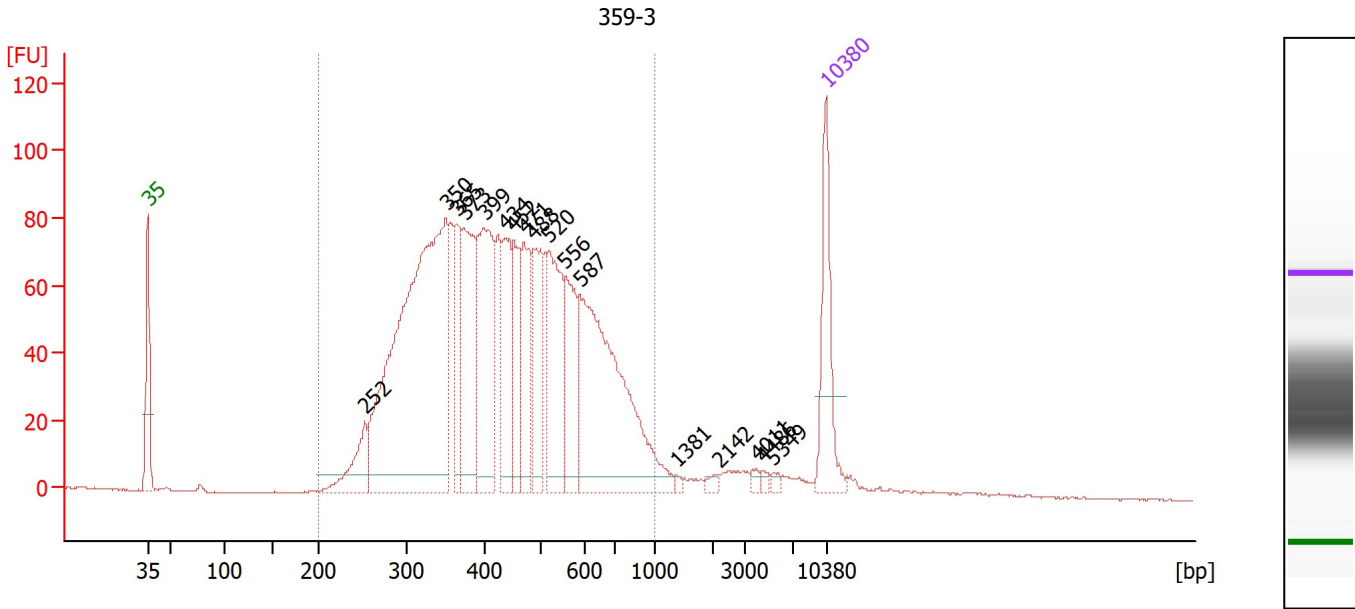
Region table for sample 8 : RRTN1-D PippinHT SS Lib

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	2,601.9	82	594	17.1	1,902.51	5,000.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 359-3

Number of peaks found: 17 Corr. Area 1: 2,219.1
 Noise: 0.3

Peak table for sample 9 : 359-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	252	61.44	369.0	
3	350	642.32	2,779.1	
4	365	75.70	314.5	
5	373	150.58	611.7	
6	399	183.88	698.0	
7	434	94.45	329.4	
8	452	72.00	241.4	
9	471	93.76	301.5	
10	488	96.25	298.6	
11	520	136.98	399.3	
12	556	85.60	233.3	
13	587	313.72	809.2	
14	1,381	2.98	3.3	
15	2,142	5.44	3.8	
16	4,011	4.80	1.8	
17	4,486	3.99	1.3	
18	5,349	4.29	1.2	
19	10,380	75.00	10.9	Upper Marker

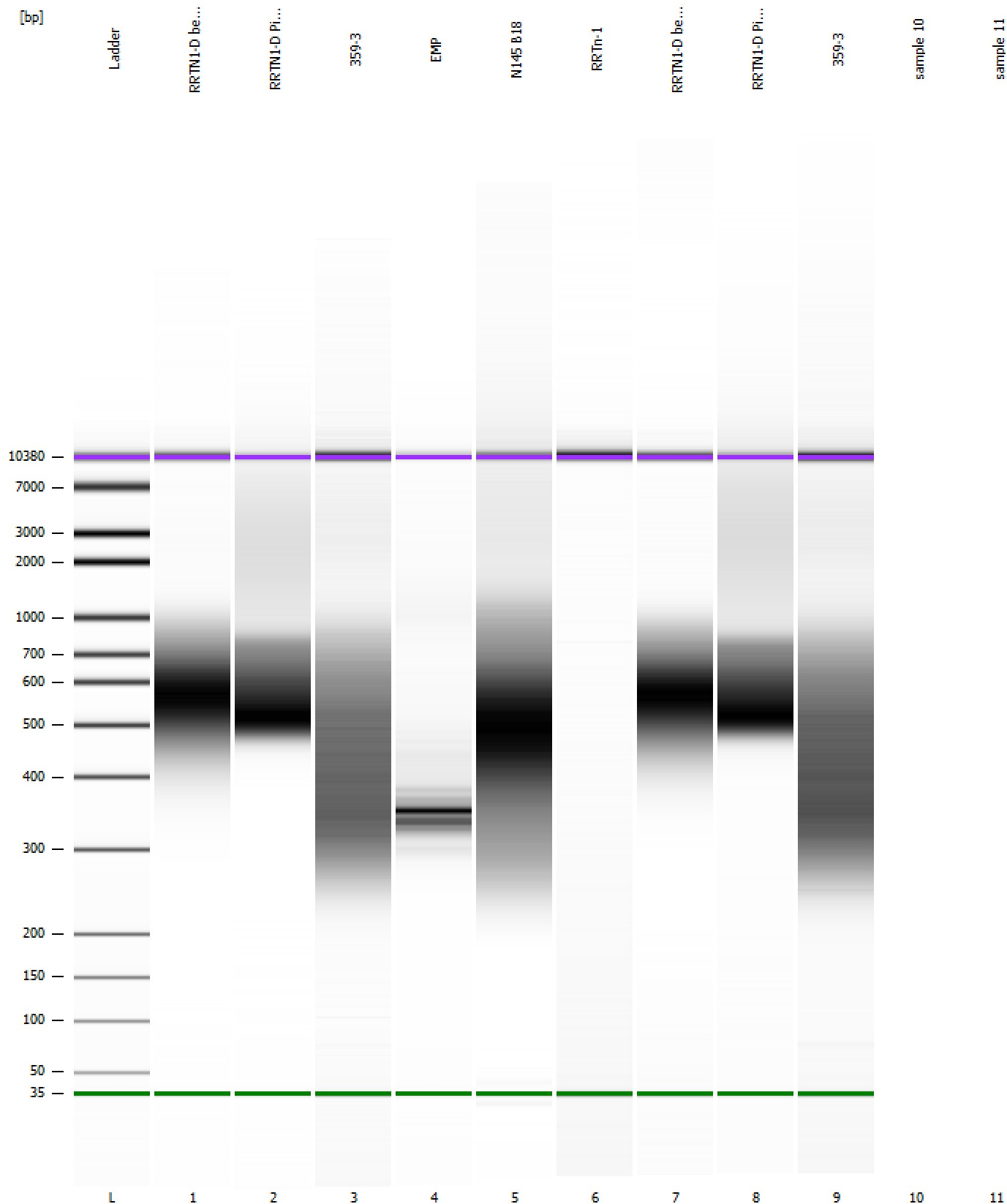
Region table for sample 9 : 359-3

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	2,219.1	94	453	31.7	2,209.54	8,393.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
Modified: 1/7/2020 11:40:25 AM

Gel Image

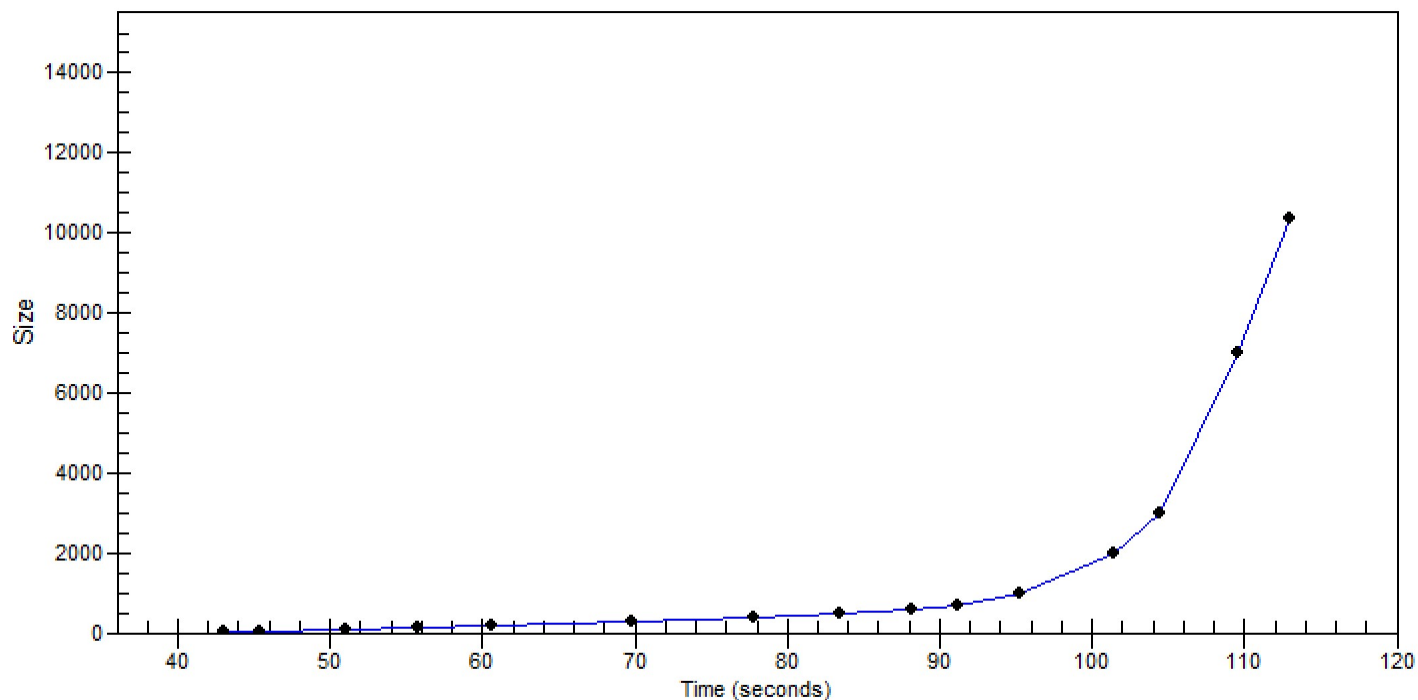


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
Modified: 1/7/2020 11:40:25 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
Modified: 1/7/2020 11:40:25 AM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-07_001.xad

Created: 1/7/2020 11:04:45 AM
 Modified: 1/7/2020 11:40:25 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		1/7/2020 11:40:23 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-07\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-07_001.xad)		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/7/2020 11:04:51 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB