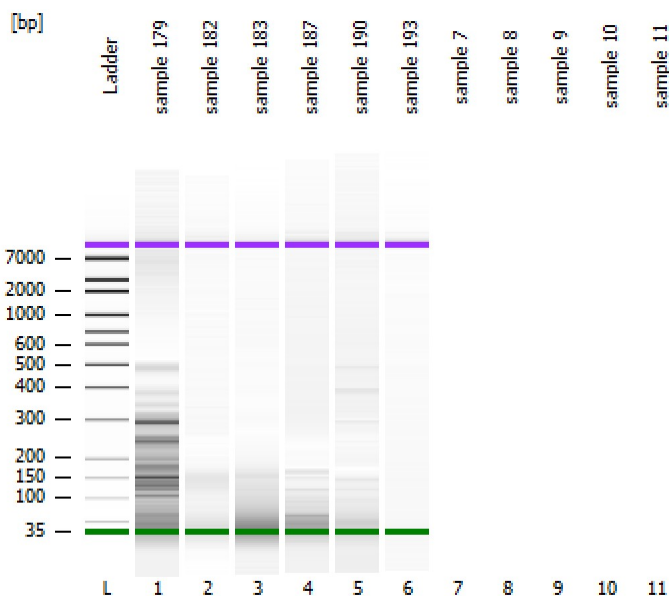


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
Modified: 10/16/2019 3:18:14 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: BIOANALYZER1 Firmware: C.01.069
Serial#: DE72902478 Type: G2939A

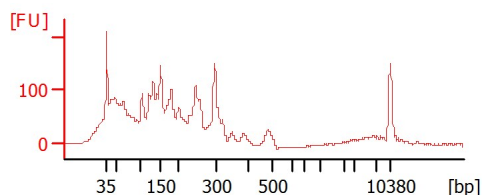
Assay Information:

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: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

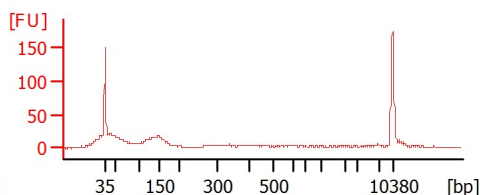
Chip Information:

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

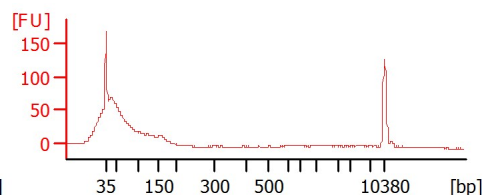
sample 179



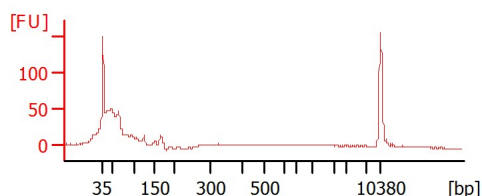
sample 182



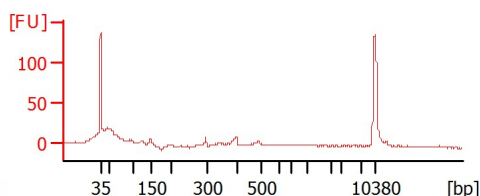
sample 183



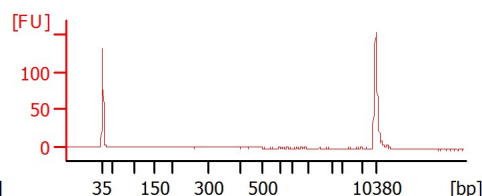
sample 187



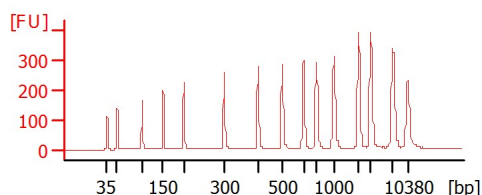
sample 190



sample 193



Ladder



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
Modified: 10/16/2019 3:18:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 179		<input type="checkbox"/>	✓			
sample 182		<input type="checkbox"/>	✓			
sample 183		<input type="checkbox"/>	✓			
sample 187		<input type="checkbox"/>	✓			
sample 190		<input type="checkbox"/>	✓			
sample 193		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
Modified: 10/16/2019 3:18:14 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

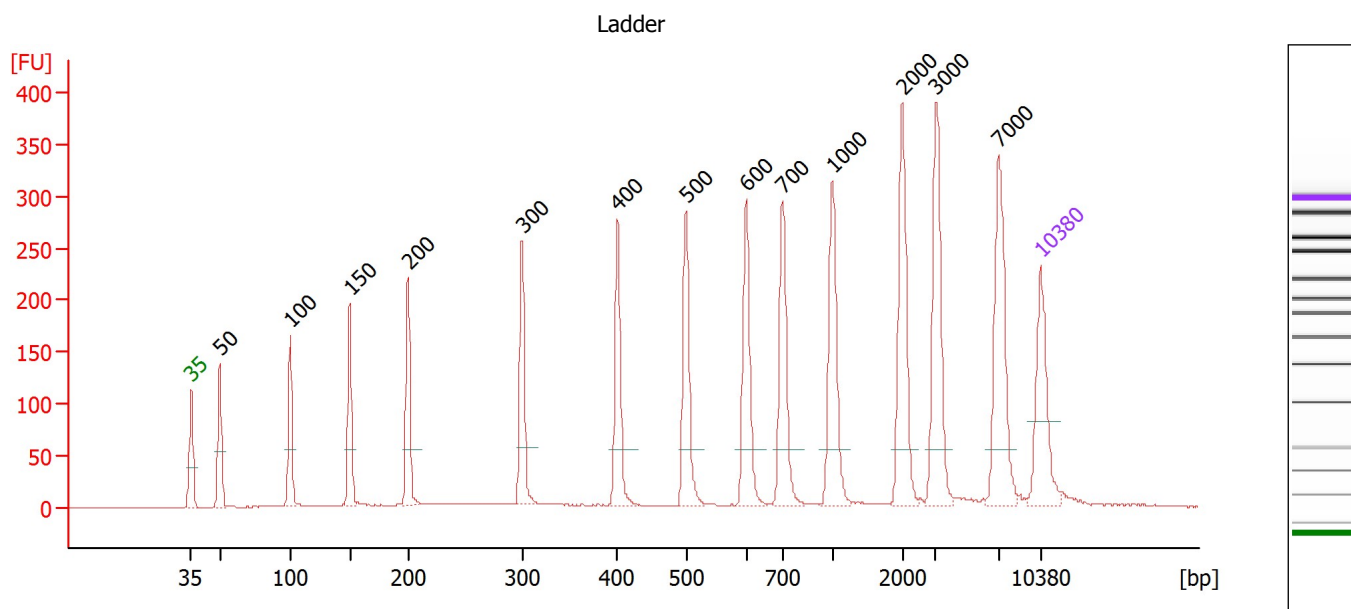
Ladder

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:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

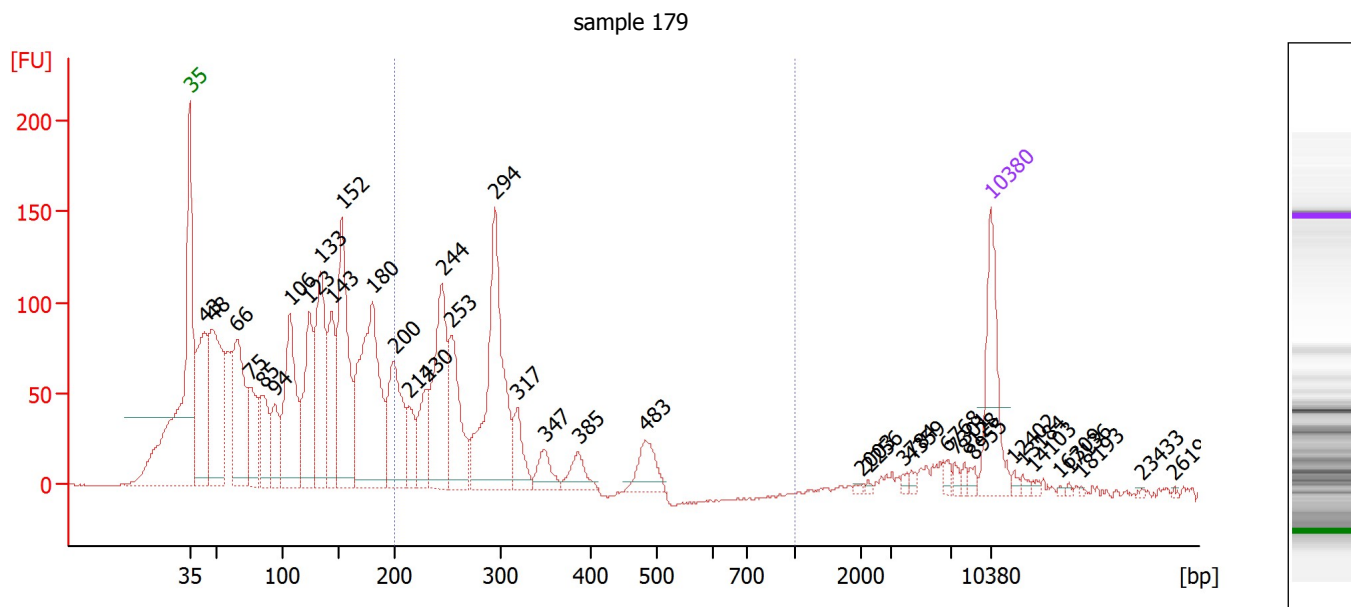
Peak table for Ladder

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: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 179

Number of peaks found: 38 Corr. Area 1: 1,168.6
 Noise: 0.3

Peak table for sample 1 : sample 179

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	211.33	7,403.6	
3	48	271.25	8,621.9	
4	66	207.74	4,790.6	
5	75	101.15	2,034.2	
6	85	88.27	1,573.7	
7	94	70.48	1,138.2	
8	106	211.77	3,014.2	
9	123	156.68	1,922.3	
10	133	212.26	2,410.2	
11	143	115.68	1,222.4	
12	152	252.66	2,511.2	
13	180	311.92	2,623.0	
14	200	144.19	1,094.4	
15	214	48.54	344.5	
16	230	64.41	424.5	
17	244	184.31	1,143.4	
18	253	120.66	722.2	
19	294	267.98	1,382.0	
20	317	46.62	222.5	
21	347	30.51	133.2	
22	385	30.63	120.5	
23	483	41.42	129.8	
24	2,003	2.11	1.6	
25	2,256	2.04	1.4	
26	3,784	3.81	1.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...**... Peak table for sample 1 : sample 179**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,359	4.52	1.6	
28	6,768	6.08	1.4	
29	7,301	4.81	1.0	
30	8,128	4.14	0.8	
31	8,955	5.33	0.9	
32	10,380	75.00	10.9	Upper Marker
33	12,402	0.00	0.0	
34	13,184	0.00	0.0	
35	14,103	0.00	0.0	
36	16,309	0.00	0.0	
37	17,136	0.00	0.0	
38	18,193	0.00	0.0	
39	23,433	0.00	0.0	
40	26,190	0.00	0.0	

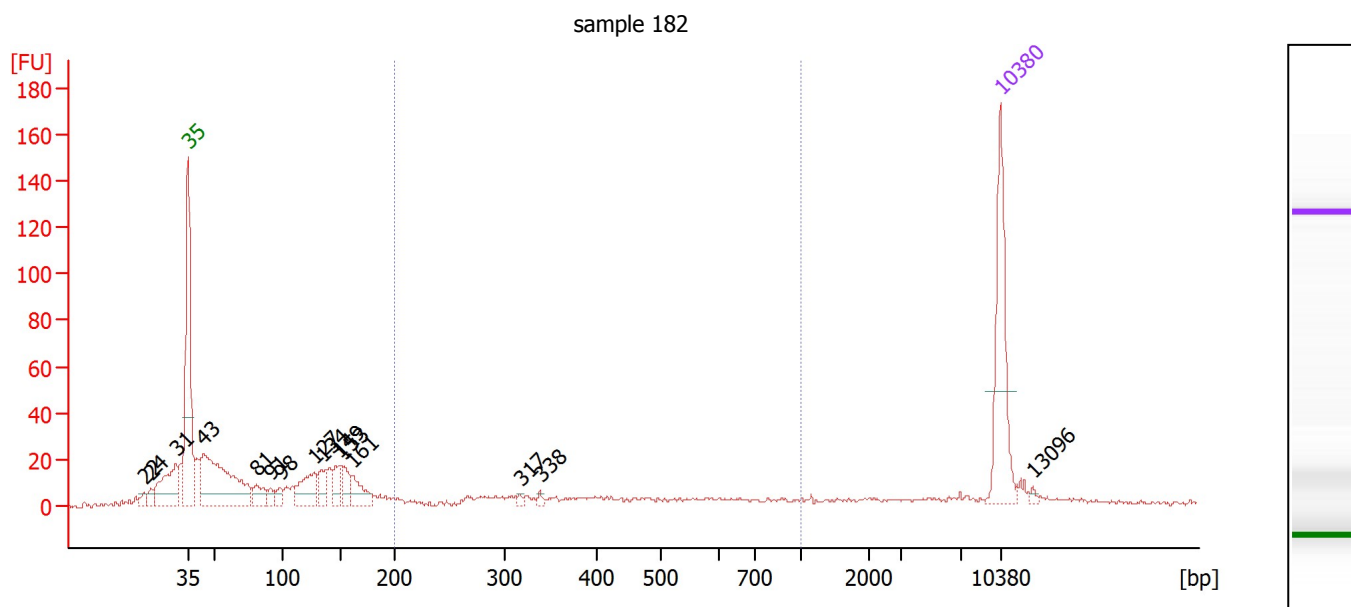
Region table for sample 1 : sample 179

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	1,168.6	31	282	23.3	884.06	4,974.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 182

Number of peaks found: 15 Corr. Area 1: 117.5
 Noise: 0.6

Peak table for sample 2 : sample 182

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	22	0.00	0.0	
2	24	0.00	0.0	
3	31	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	43	179.60	6,268.0	
6	81	22.42	421.5	
7	91	9.99	166.6	
8	98	11.81	183.3	
9	127	47.38	563.2	
10	134	20.69	234.0	
11	149	24.07	244.9	
12	153	19.80	195.8	
13	161	28.01	263.8	
14	317	3.04	14.6	
15	338	3.04	13.6	
16	10,380	75.00	10.9	Upper Marker
17	13,096	0.00	0.0	

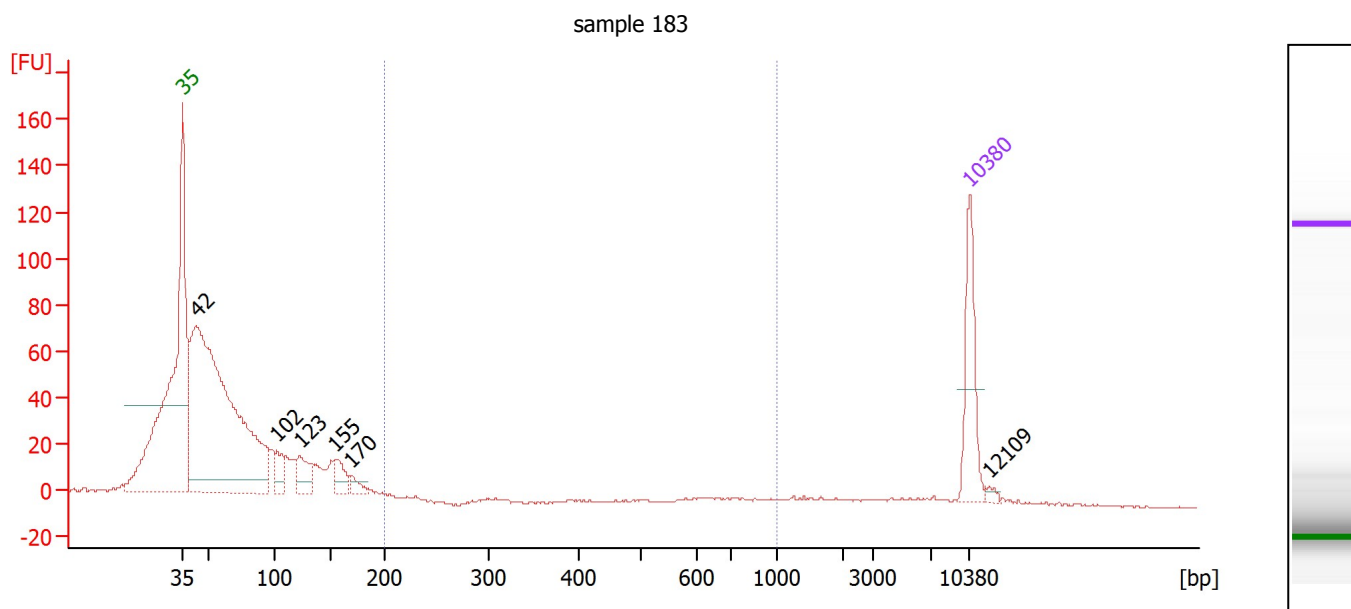
Region table for sample 2 : sample 182

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	117.5	16	436	40.4	92.81	393.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 183

Number of peaks found: 6 Corr. Area 1: 8.7
 Noise: 0.4

Peak table for sample 3 : sample 183

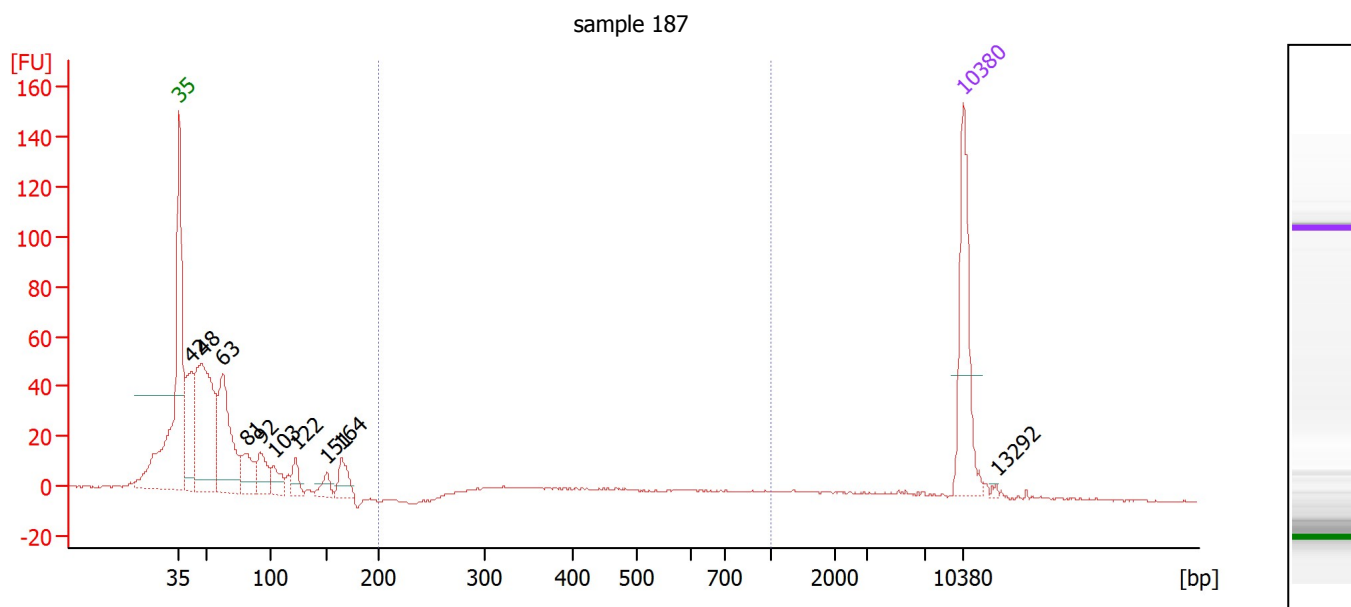
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	1,045.04	37,265.2	
3	102	39.01	578.3	
4	123	56.33	694.5	
5	155	37.26	363.5	
6	170	18.16	162.2	
7	10,380	75.00	10.9	Upper Marker
8	12,109	0.00	0.0	

Region table for sample 3 : sample 183

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	8.7	1	718	22.6	7.37	18.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : sample 187**

Number of peaks found: 10 Corr. Area 1: 54.3
 Noise: 0.4

Peak table for sample 4 : sample 187

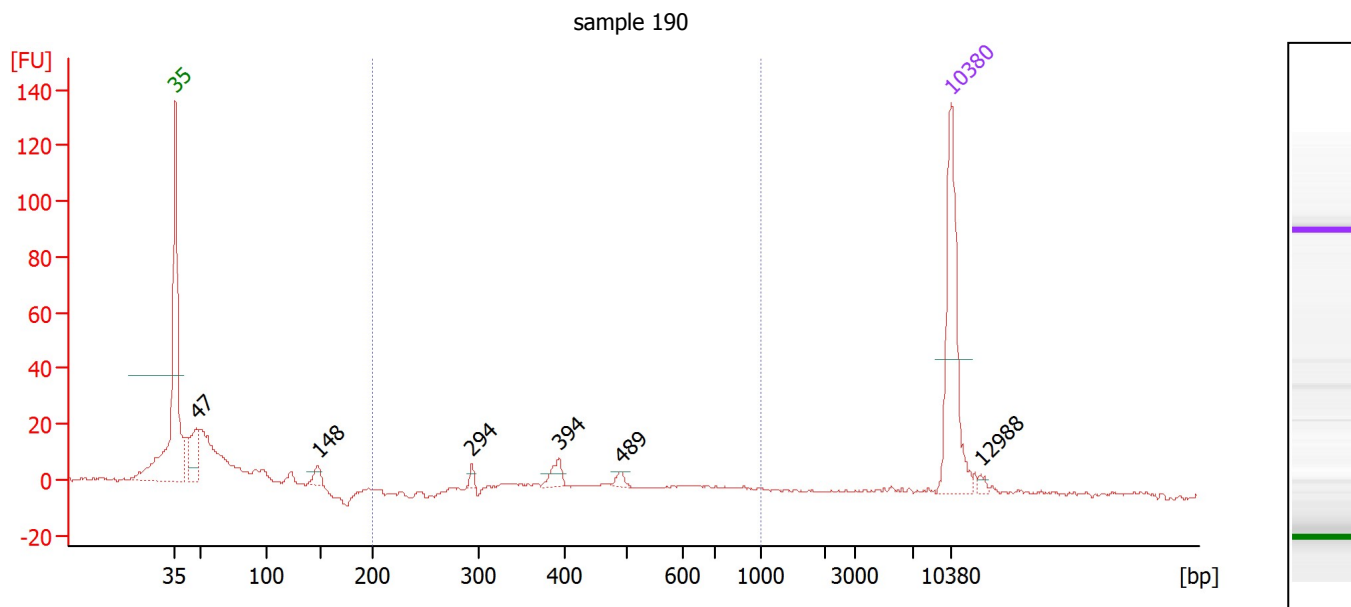
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	111.99	4,076.5	
3	48	239.98	7,631.9	
4	63	155.04	3,716.7	
5	81	46.20	865.8	
6	92	40.03	659.7	
7	103	26.74	394.9	
8	122	21.52	266.4	
9	151	16.88	168.9	
10	164	29.70	273.7	
11	10,380	75.00	10.9	Upper Marker
12	13,292	0.00	0.0	

Region table for sample 4 : sample 187

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	54.3	8	506	34.8	41.32	143.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : sample 190**

Number of peaks found: 6 Corr. Area 1: 46.6
 Noise: 0.4

Peak table for sample 5 : sample 190

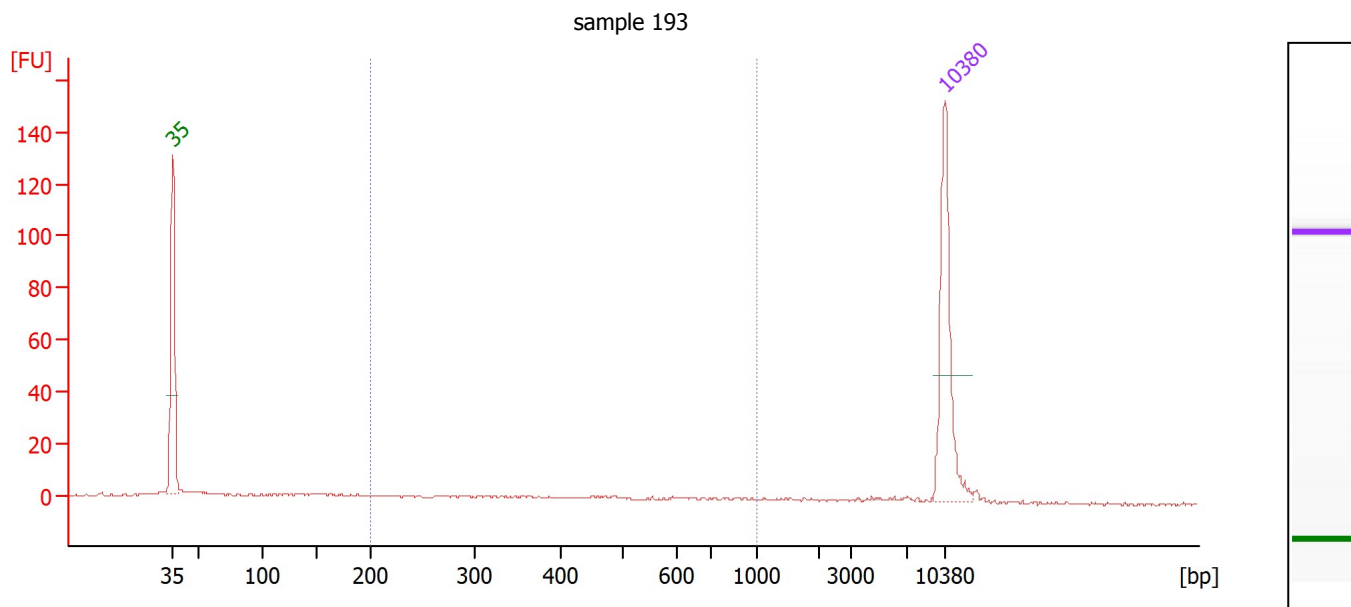
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	43.43	1,395.6	
3	148	9.72	99.5	
4	294	4.92	25.4	
5	394	11.24	43.2	
6	489	4.30	13.3	
7	10,380	75.00	10.9	Upper Marker
8	12,988	0.00	0.0	

Region table for sample 5 : sample 190

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	46.6	18	477	31.8	34.60	123.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : sample 193**

Number of peaks found: 0 Corr. Area 1: 46.3
 Noise: 0.3

Peak table for sample 6 : sample 193

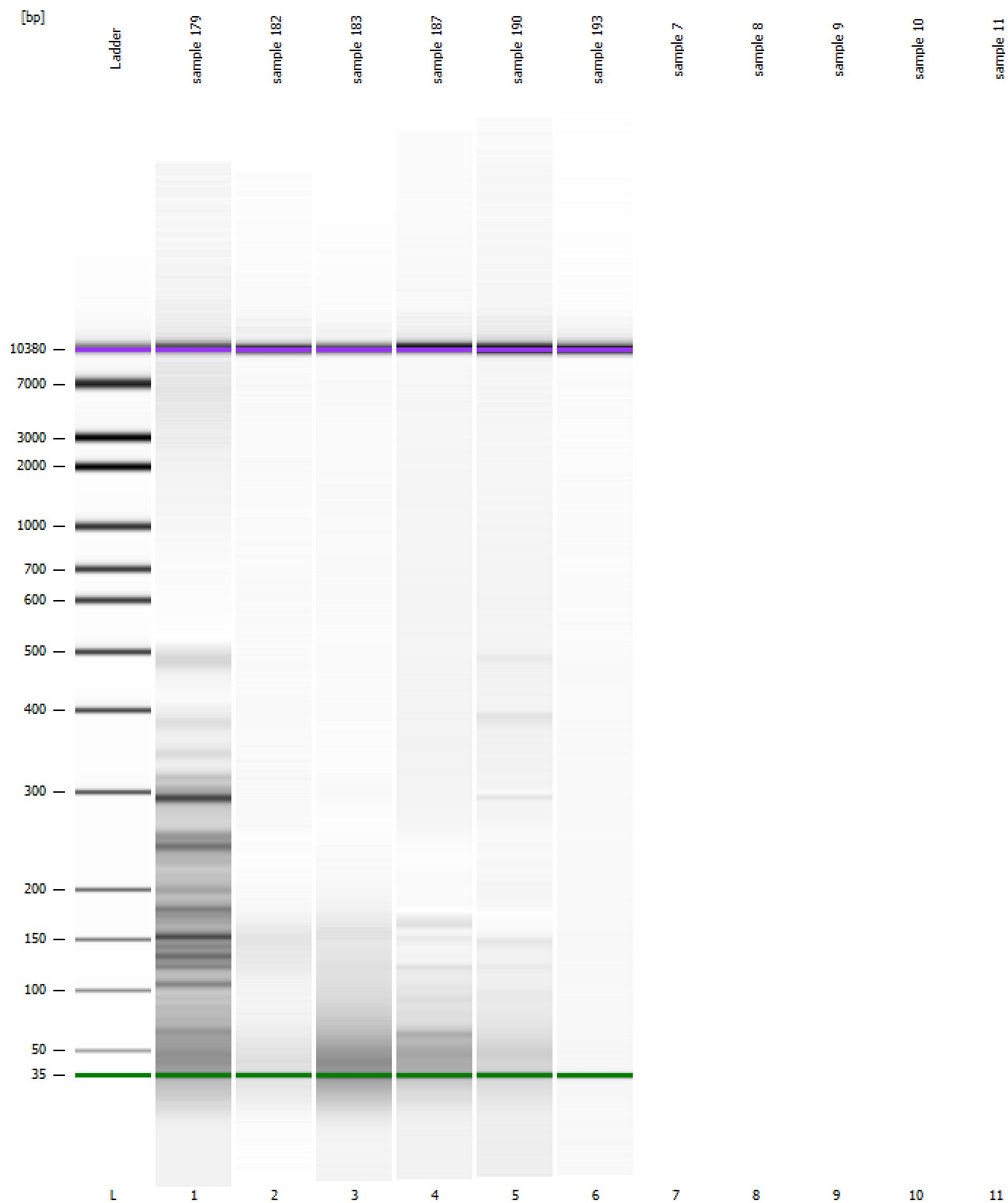
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : sample 193

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	46.3	35	455	42.7	35.61	150.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
Modified: 10/16/2019 3:18:14 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
Modified: 10/16/2019 3:18:14 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

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: C:\...gh Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad

Created: 10/16/2019 2:51:05 PM
 Modified: 10/16/2019 3:18:14 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 7 (Number of wells acquired: 7)		Instrument	Run		10/16/2019 3:18:07 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Run started on port 7 (File: C:\Users\BioAnalyzer\BioAnalyzer Data\Dunn Lab\2019-10-16\2100 expert_High Sensitivity DNA Assay_DE72902478_2019-10-16_14-51-05.xad)		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Product Number : G2939A		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Name : BIOANALYZER1		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Vendor : Agilent Technologies		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Serial# : DE72902478		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Firmware : C.01.069		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC
Cartridge : Electrode		Instrument	Run		10/16/2019 2:51:10 PM	(GMT --04:00) Eastern Standard Time	BioAnalyzer	BioAnalyzer-PC