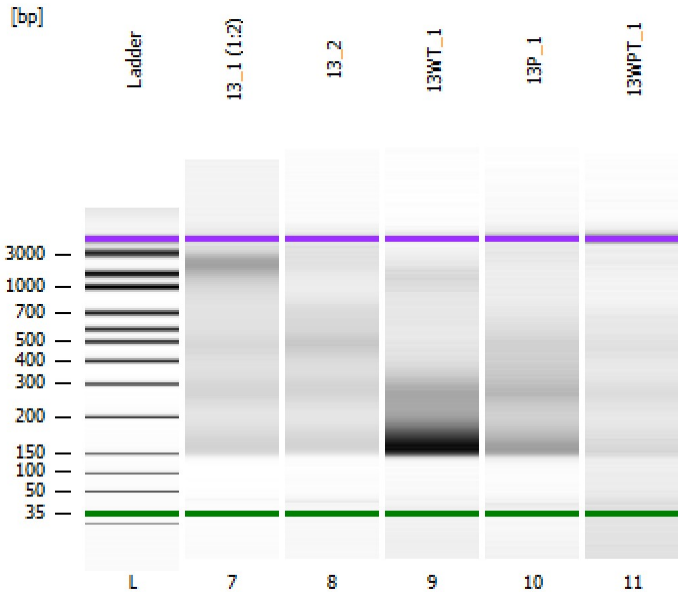


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
Modified: 7/22/2020 5:09:22 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

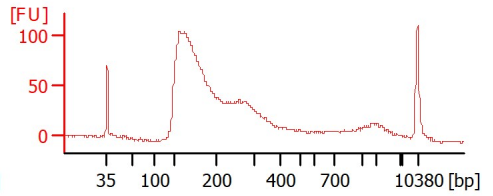
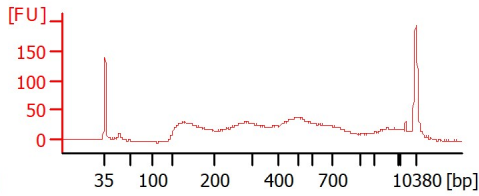
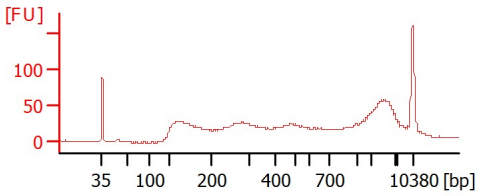
Chip Information:

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

13_1 (1:2)

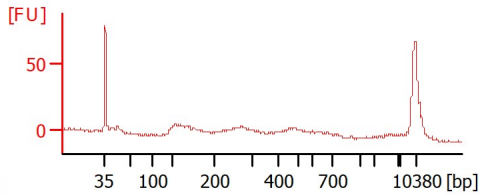
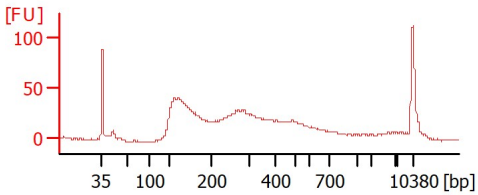
13_2

13WT_1



13P_1

13WPT_1



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
13_1 (1:2)		<input type="checkbox"/>	✓			
13_2		<input type="checkbox"/>	✓			
13WT_1		<input type="checkbox"/>	✓			
13P_1		<input type="checkbox"/>	✓			
13WPT_1		<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_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 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

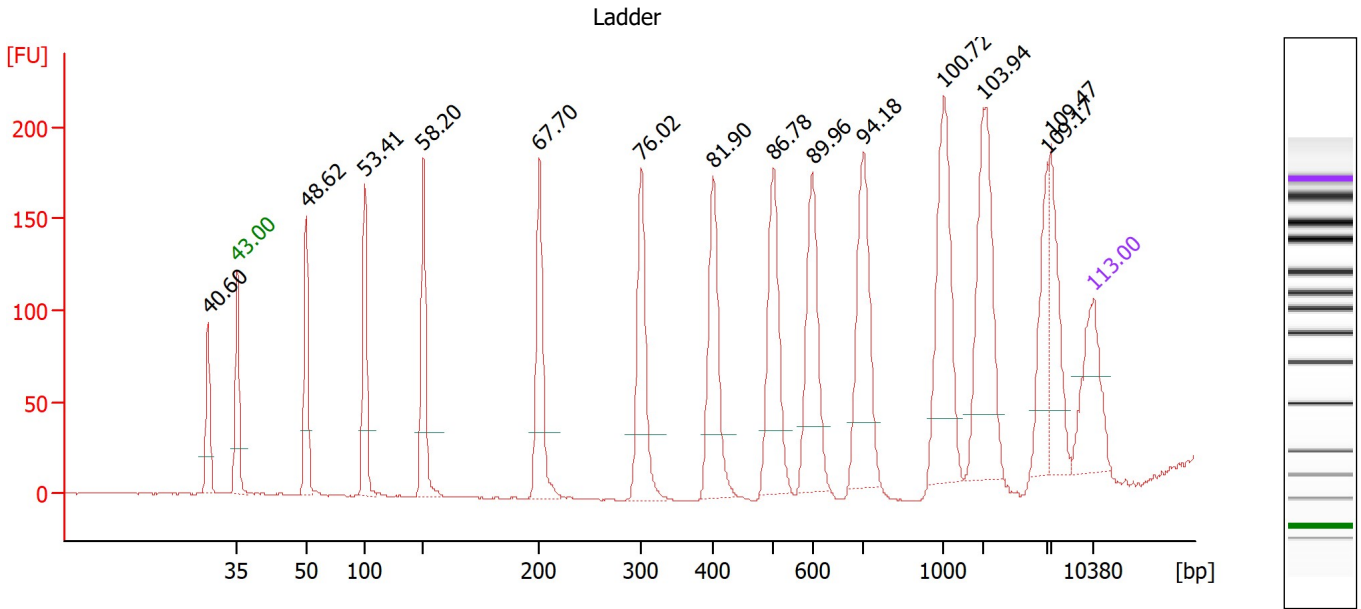
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

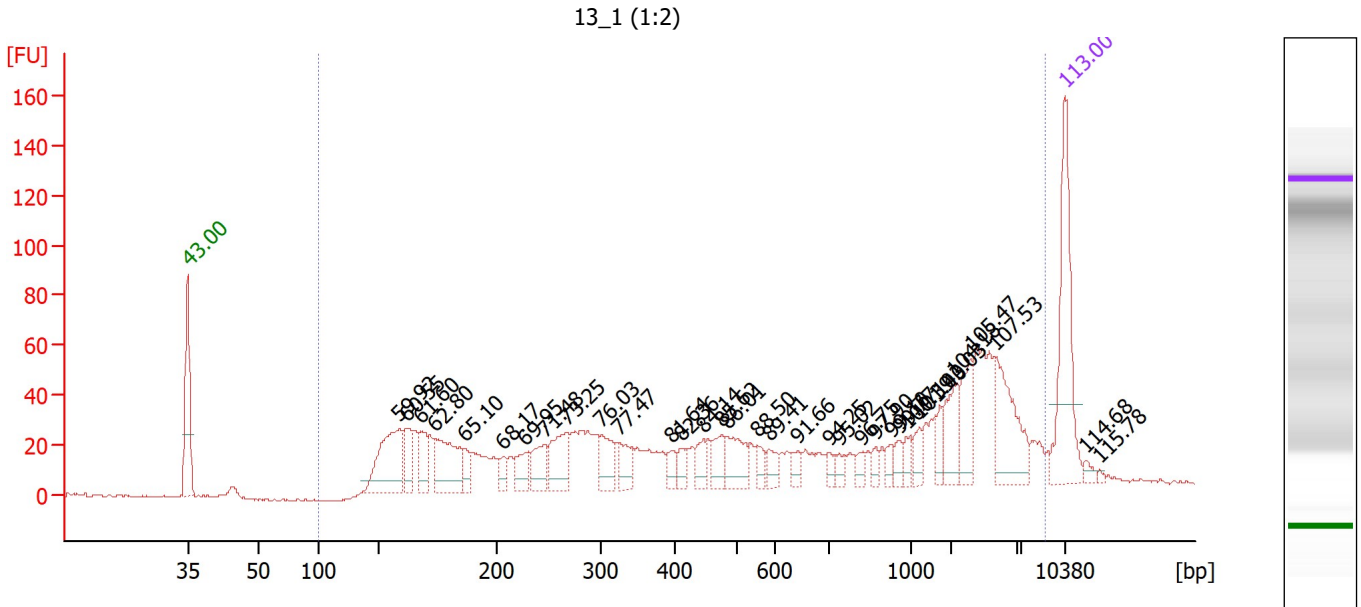
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\..._Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 13 1 (1:2)

Number of peaks found: 33 Corr. Area 1: 1,299.6
 Noise: 0.6

Peak table for sample 7 : 13 1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	159	91.48	871.3	
3	162	29.71	277.3	
4	168	29.02	261.9	
5	174	71.25	619.6	
6	186	15.94	129.6	
7	206	12.01	88.4	
8	227	23.98	160.0	
9	245	31.17	192.4	
10	267	42.62	242.1	
11	300	28.37	143.2	
12	325	24.08	112.4	
13	396	10.99	42.1	
14	410	12.07	44.7	
15	446	14.70	49.9	
16	476	20.17	64.2	
17	484	31.44	98.4	
18	554	9.58	26.2	
19	583	12.19	31.7	
20	640	9.01	21.3	
21	703	6.85	14.8	
22	738	7.90	16.2	
23	818	7.37	13.7	
24	871	6.44	11.2	
25	926	7.24	11.9	
26	956	7.68	12.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 13 1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	985	8.82	13.6	
28	1,211	10.23	12.8	
29	1,717	10.64	9.4	
30	2,046	25.90	19.2	
31	2,293	27.05	17.9	
32	2,688	50.66	28.6	
33	10,380	75.00	10.9	Upper Marker
34	11,988	0.00	0.0	
35	13,044	0.00	0.0	

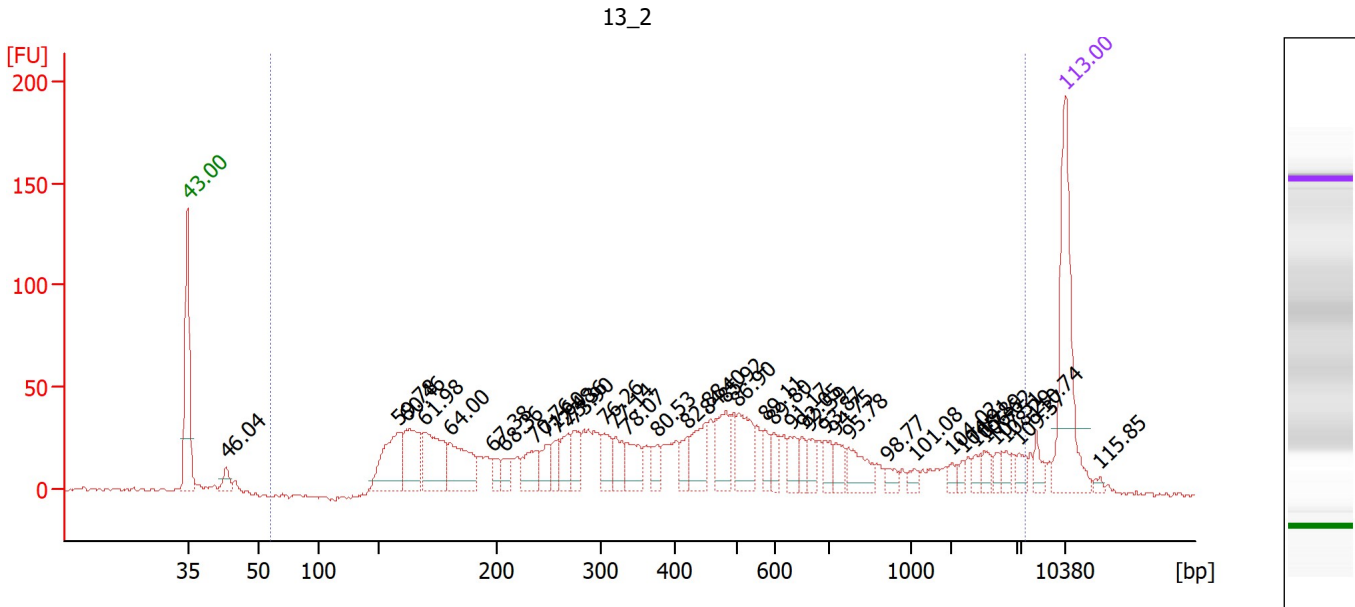
Region table for sample 7 : 13 1 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
101	8,984	1,299.6	99	1,222	100.0	1,023.41	5,019.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\..._Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 13_2

Number of peaks found: 39 Corr. Area 1: 1,493.2
 Noise: 0.9

Peak table for sample 8 : 13_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	12.22	429.4	
3	158	66.10	632.7	
4	162	58.43	546.8	
5	170	66.52	593.2	
6	181	57.33	481.2	
7	198	11.99	91.6	
8	208	11.67	85.0	
9	237	26.55	169.8	
10	247	18.76	115.1	
11	257	14.78	87.0	
12	268	22.35	126.3	
13	275	21.18	116.9	
14	304	21.13	105.3	
15	319	20.75	98.5	
16	335	24.80	112.2	
17	377	13.18	53.0	
18	420	14.41	52.0	
19	451	30.39	102.0	
20	482	32.67	102.6	
21	504	36.95	111.1	
22	573	11.60	30.7	
23	595	12.45	31.7	
24	629	14.08	33.9	
25	650	9.98	23.3	
26	662	12.00	27.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 13 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	693	12.28	26.9	
28	726	13.28	27.7	
29	773	23.38	45.8	
30	911	6.92	11.5	
31	1,113	5.02	6.8	
32	2,016	4.20	3.2	
33	2,185	4.16	2.9	
34	2,373	5.08	3.2	
35	2,513	6.99	4.2	
36	2,682	5.41	3.1	
37	2,832	5.49	2.9	
38	5,666	6.24	1.7	
39	8,218	8.47	1.6	
40	▶ 10,380	75.00	10.9	Upper Marker
41	13,106	0.00	0.0	

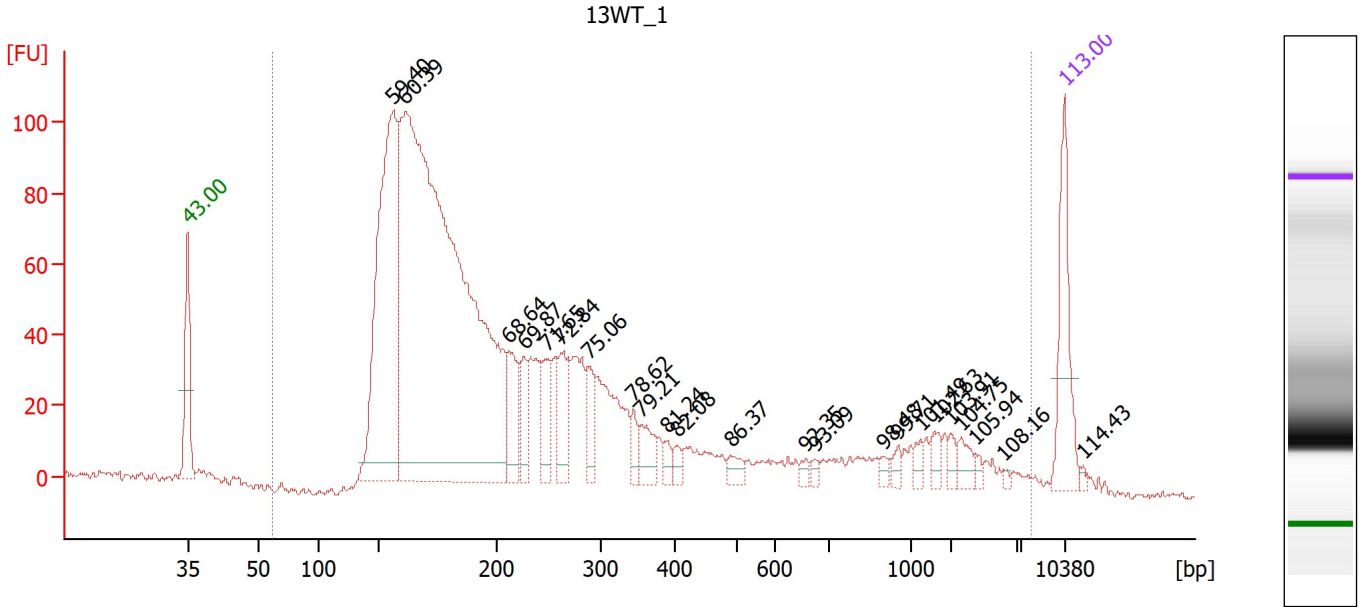
Region table for sample 8 : 13 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60	7,440	1,493.2	95	688	100.0	952.60	4,943.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\..._Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 13WT_1

Number of peaks found: 23 Corr. Area 1: 2,036.0
 Noise: 0.9

Peak table for sample 9 : 13WT_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	156	510.78	4,951.1	
3	162	1,563.24	14,664.7	
4	211	75.37	540.5	
5	226	46.23	309.7	
6	248	54.12	331.3	
7	262	61.11	353.7	
8	288	42.66	224.0	
9	344	19.51	85.9	
10	354	33.66	143.9	
11	389	11.90	46.4	
12	404	10.53	39.5	
13	492	15.07	46.4	
14	657	6.66	15.4	
15	674	6.05	13.6	
16	897	6.12	10.3	
17	954	8.85	14.1	
18	1,240	8.80	10.8	
19	1,592	12.62	12.0	
20	1,991	8.25	6.3	
21	2,155	13.95	9.8	
22	2,382	4.61	2.9	
23	2,807	2.55	1.4	
24	10,380	75.00	10.9	Upper Marker
25	11,752	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...

... Region table for sample 9 :

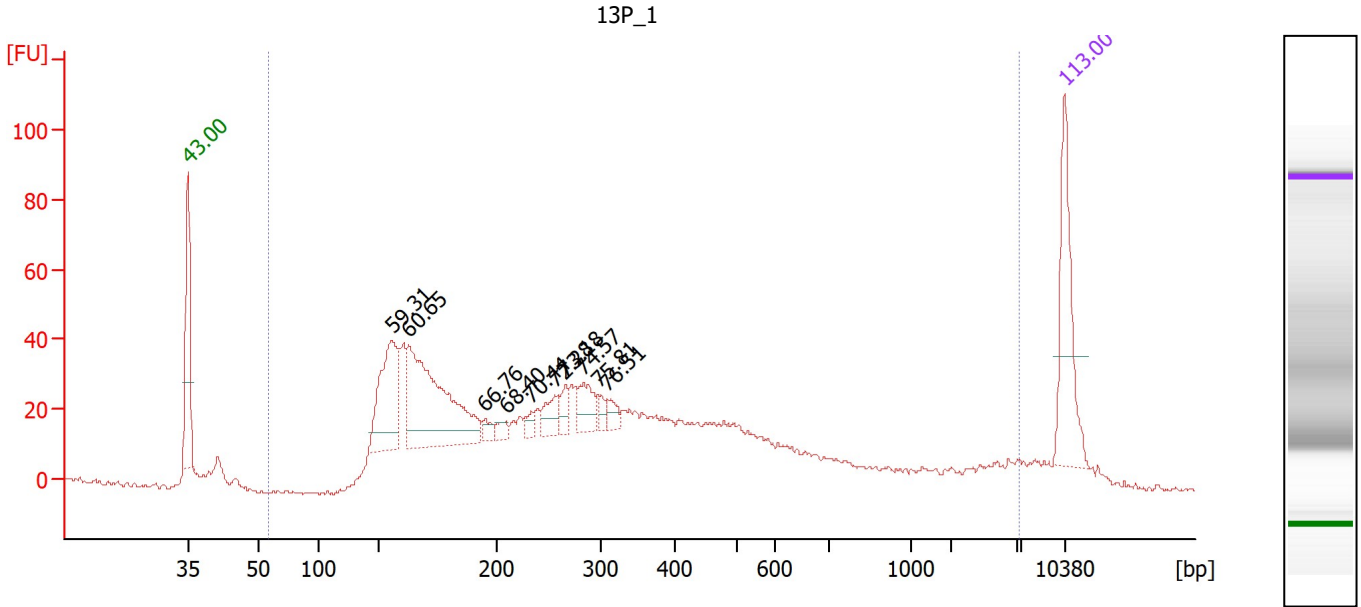
13WT 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
62	7,805	2,036.0	98	393	100.0	2,944.48	21,994.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\..._Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 13P_1

Number of peaks found: 10 Corr. Area 1: 1,193.0
 Noise: 0.7

Peak table for sample 10 : 13P_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	156	136.22	1,324.6	
3	163	239.37	2,226.7	
4	195	10.90	84.6	
5	208	11.47	83.4	
6	233	9.28	60.3	
7	255	24.84	147.5	
8	266	17.88	101.9	
9	283	34.45	184.7	
10	298	10.43	53.1	
11	308	13.76	67.6	
12	10,380	75.00	10.9	Upper Marker

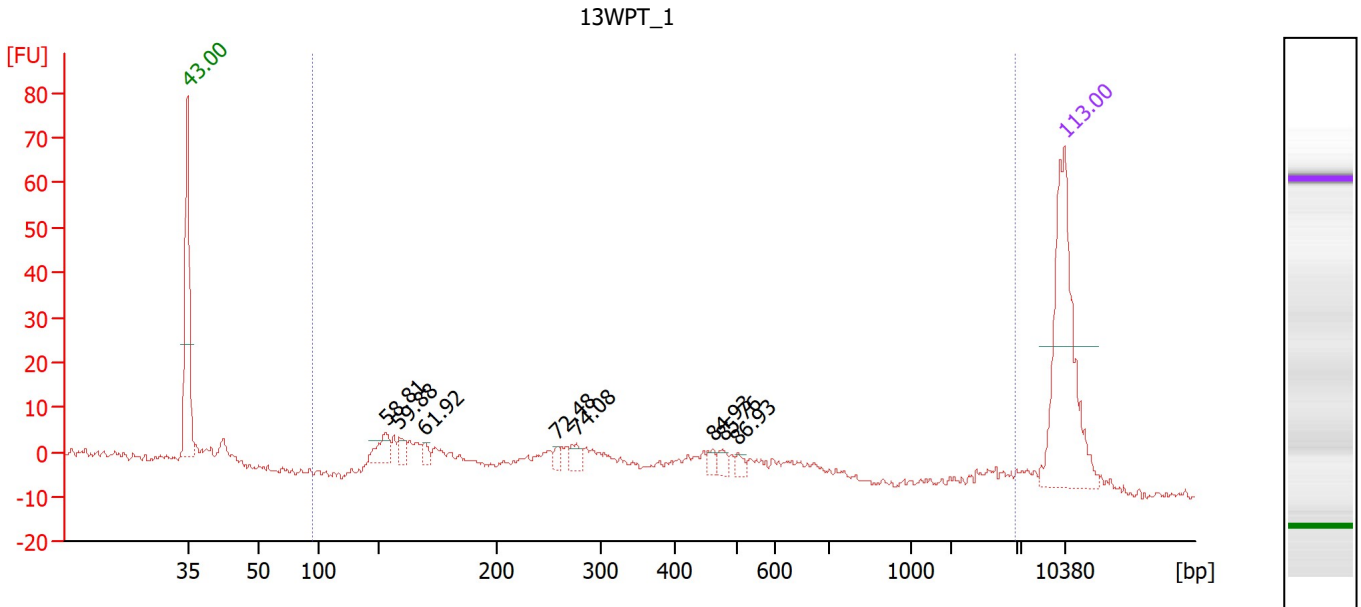
Region table for sample 10 : 13P_1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59	6,782	1,193.0	96	453	100.0	1,547.81	9,899.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\..._Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 13WPT_1

Number of peaks found: 8 Corr. Area 1: 234.5
 Noise: 0.8

Peak table for sample 11 : 13WPT_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	16.65	164.7	
3	159	7.56	72.1	
4	170	5.67	50.7	
5	257	4.79	28.2	
6	277	7.61	41.6	
7	462	4.09	13.4	
8	479	5.37	17.0	
9	505	4.22	12.7	
10	10,380	75.00	10.9	Upper Marker

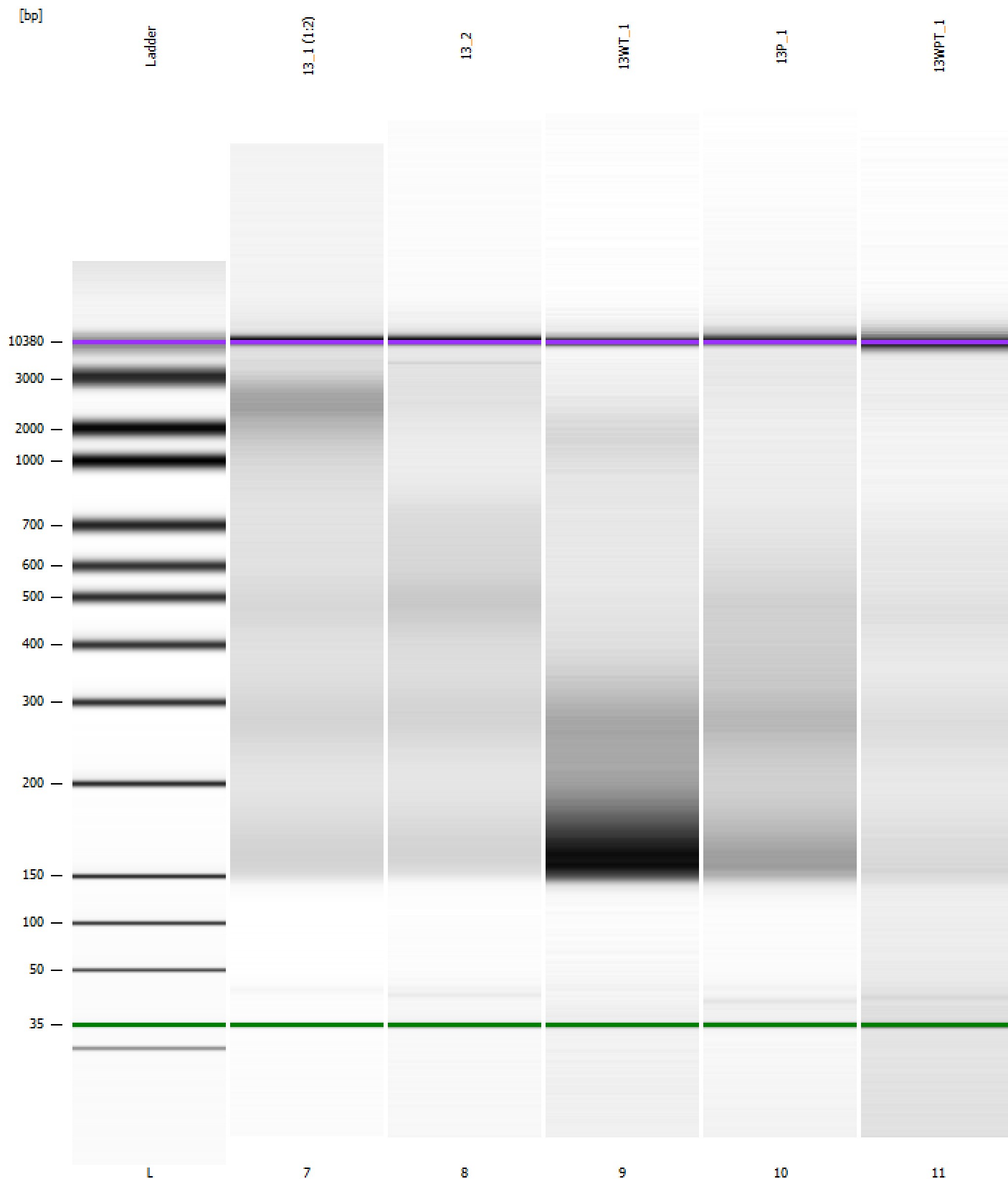
Region table for sample 11 : 13WPT_1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
96	2,985	234.5	82	572	100.0	231.21	1,342.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
Modified: 7/22/2020 5:09:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-22_001.xad

Created: 7/22/2020 4:15:04 PM
 Modified: 7/22/2020 5:09:22 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		7/22/2020 4:56:22 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-22\Bioanalyze r1_High Sensitivity DNA Assay_2020-07-22_001.xad)		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/22/2020 4:15:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB