

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-19_001.xad

Created: 5/19/2023 10:43:40 AM
Modified: 5/19/2023 12:06:39 PM

Electrophoresis File Run Summary

Instrument Information:

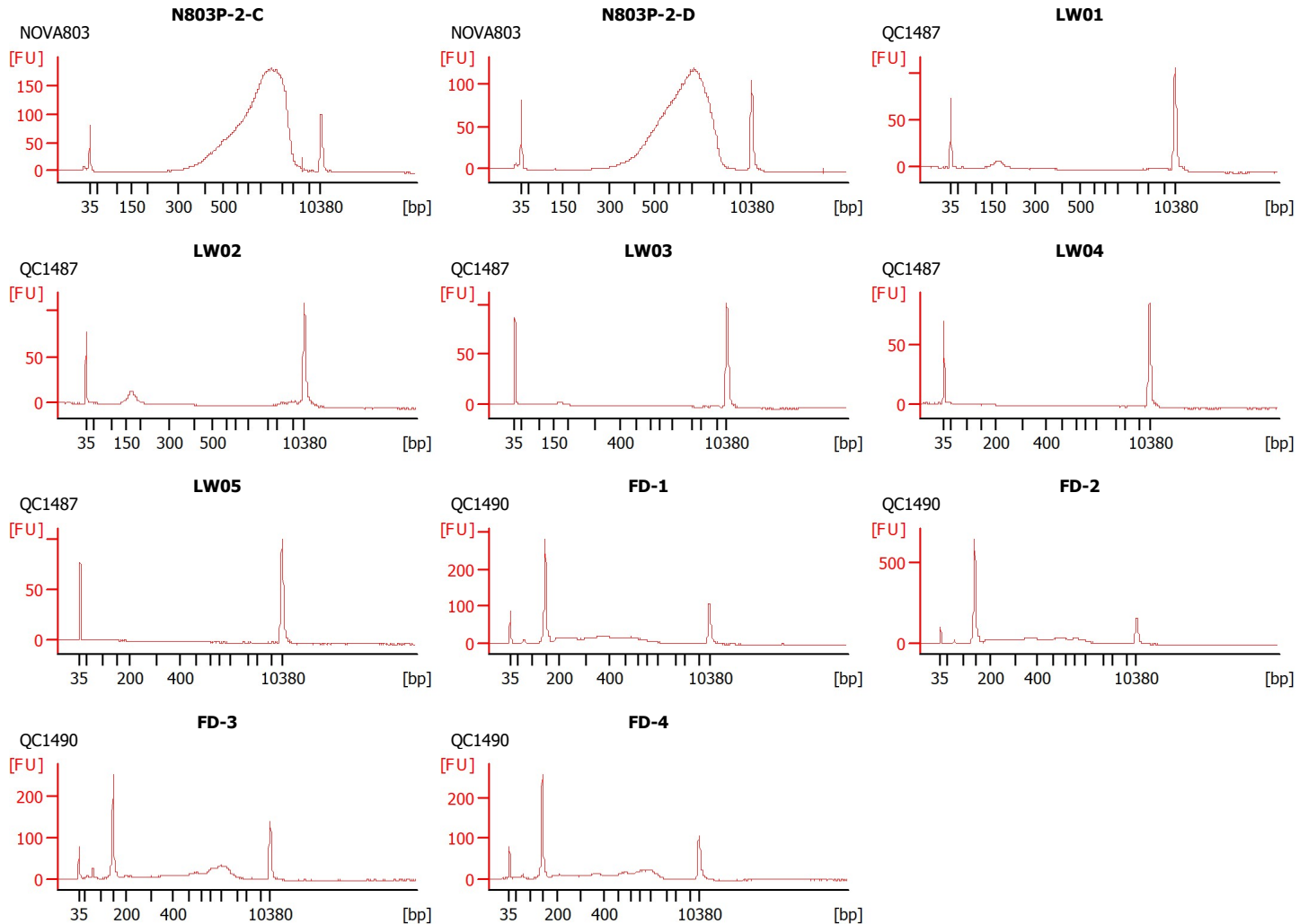
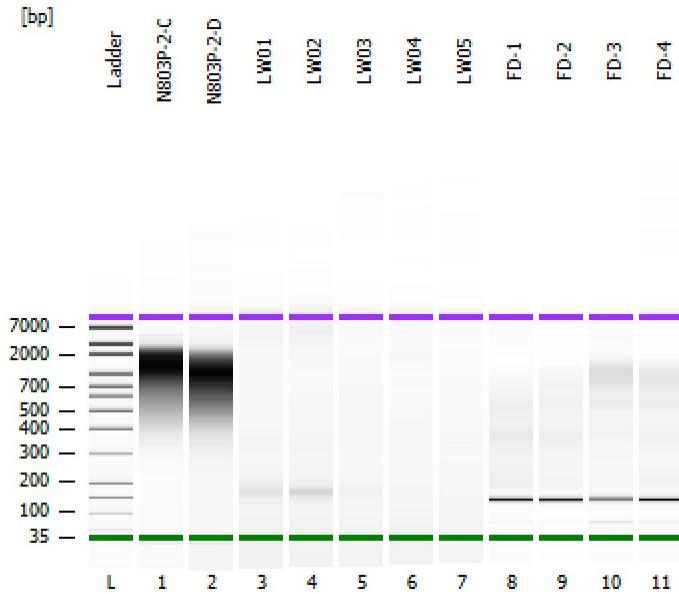
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N803P-2-C	NOVA803	<input type="checkbox"/>	✓			
N803P-2-D	NOVA803	<input type="checkbox"/>	✓			
LW01	QC1487	<input type="checkbox"/>	✓			
LW02	QC1487	<input type="checkbox"/>	✓			
LW03	QC1487	<input type="checkbox"/>	✓			
LW04	QC1487	<input type="checkbox"/>	✓			
LW05	QC1487	<input type="checkbox"/>	✓			
FD-1	QC1490	<input type="checkbox"/>	✓			
FD-2	QC1490	<input type="checkbox"/>	✓			
FD-3	QC1490	<input type="checkbox"/>	✓			
FD-4	QC1490	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

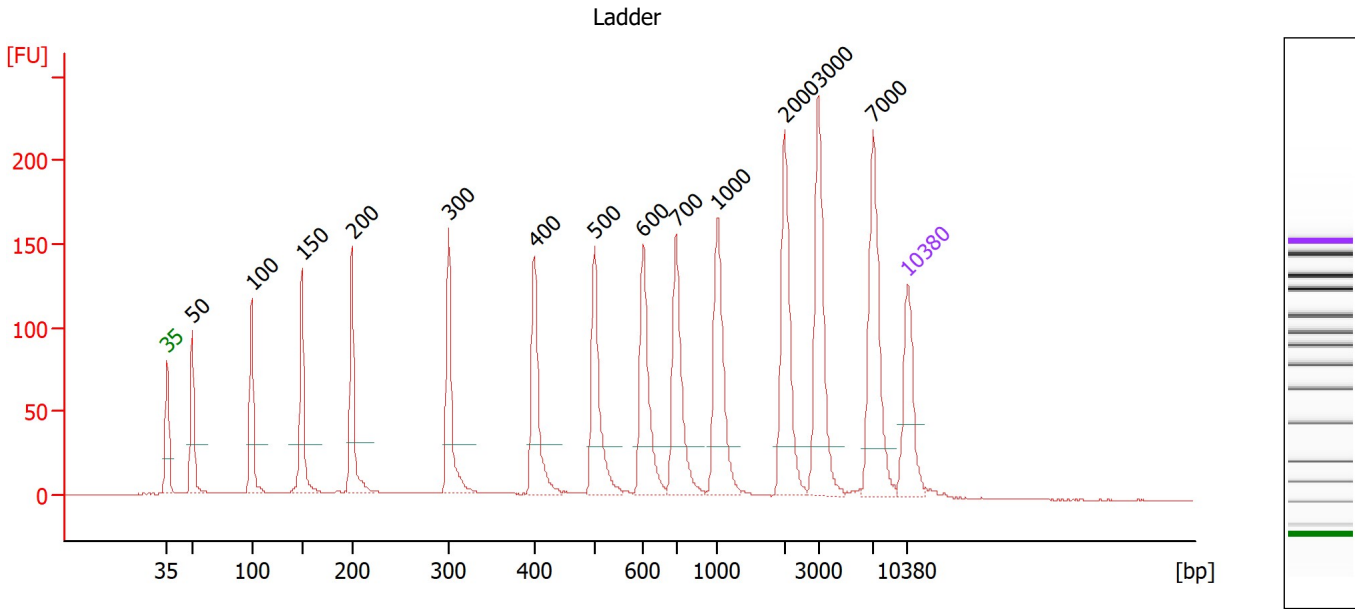
Ladder

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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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

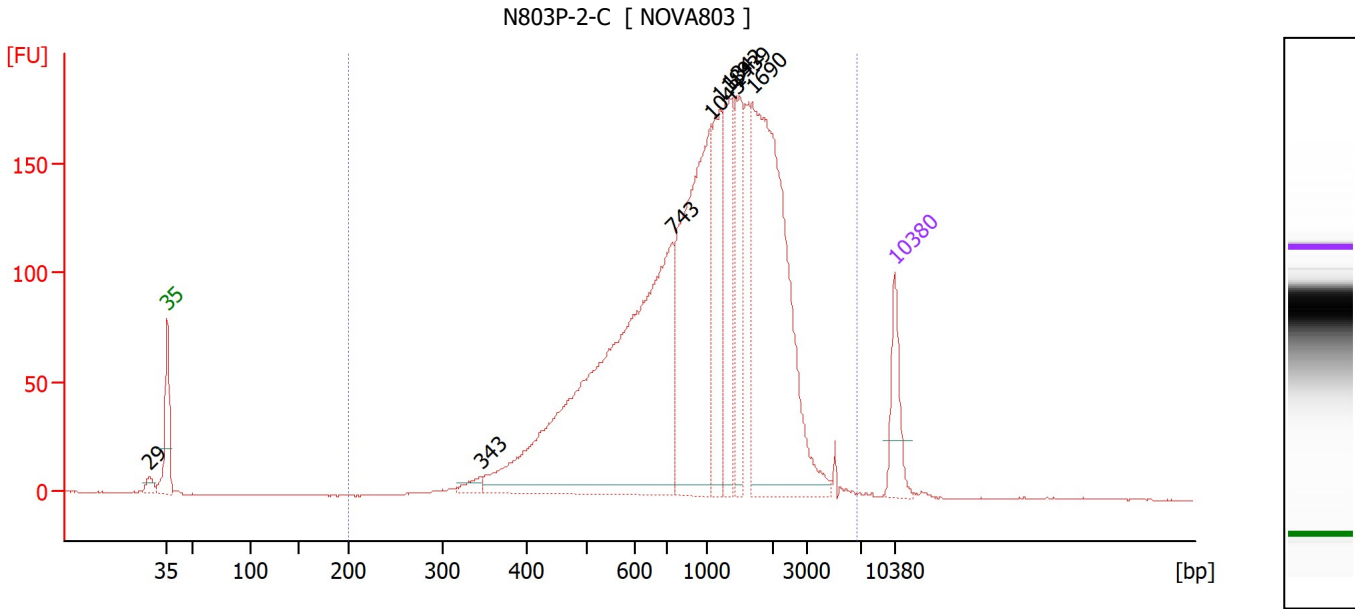
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : N803P-2-C

Number of peaks found: 8 Corr. Area 1: 3,121.6
 Noise: 0.2

Peak table for sample 1 : N803P-2-C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	343	21.60	95.3	
4	743	1,182.68	2,413.2	
5	1,043	546.85	794.4	
6	1,189	184.80	235.6	
7	1,342	195.29	220.4	
8	1,439	165.66	174.4	
9	1,690	686.59	615.5	
10	10,380	75.00	10.9	Upper Marker

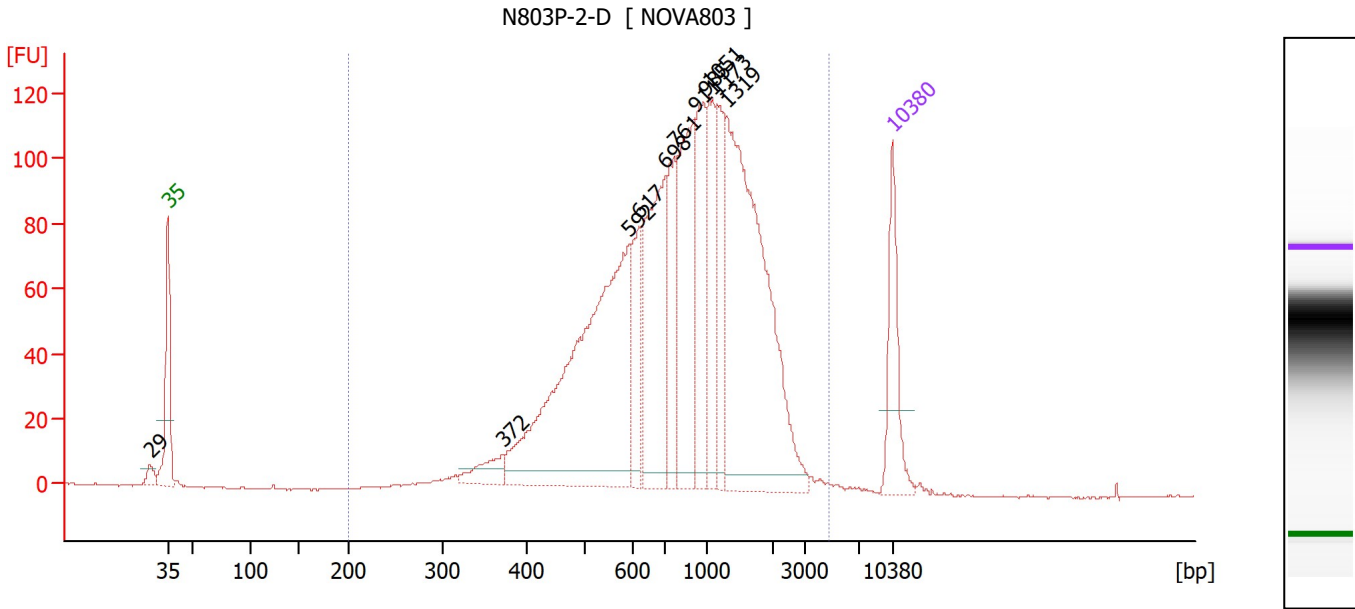
Region table for sample 1 : N803P-2-C

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	6,768	3,121.6	99	1,226	60.2	3,284.61	6,058.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : N803P-2-D

Number of peaks found: 11 Corr. Area 1: 2,162.4
 Noise: 0.3

Peak table for sample 2 : N803P-2-D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	372	37.13	151.3	
4	592	538.75	1,377.8	
5	617	90.34	221.9	
6	698	243.63	529.1	
7	761	101.45	201.9	
8	911	196.21	326.4	
9	985	122.67	188.6	
10	1,051	110.76	159.7	
11	1,173	84.14	108.7	
12	1,319	448.67	515.5	
13	10,380	75.00	10.9	Upper Marker

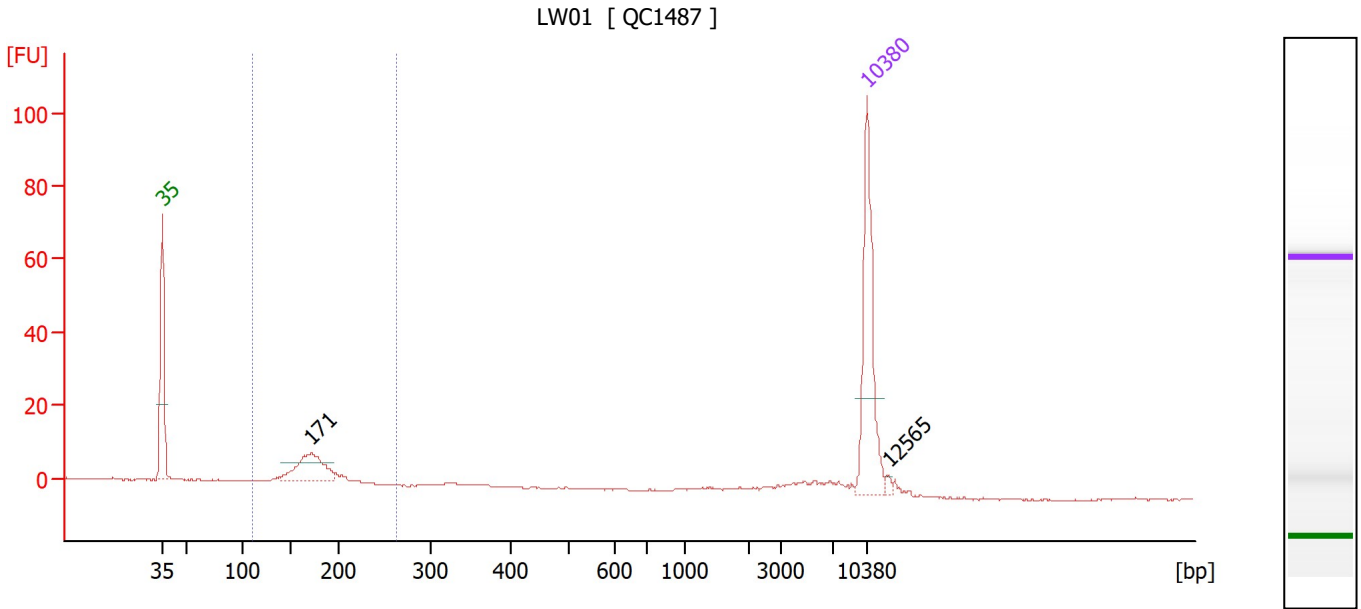
Region table for sample 2 : N803P-2-D

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	4,765	2,162.4	99	996	55.1	2,096.42	4,402.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : LW01

Number of peaks found: 2 Corr. Area 1: 55.9
 Noise: 0.2

Peak table for sample 3 : LW01

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	171	57.37	507.4	
3	10,380	75.00	10.9	Upper Marker
4	12,565	0.00	0.0	

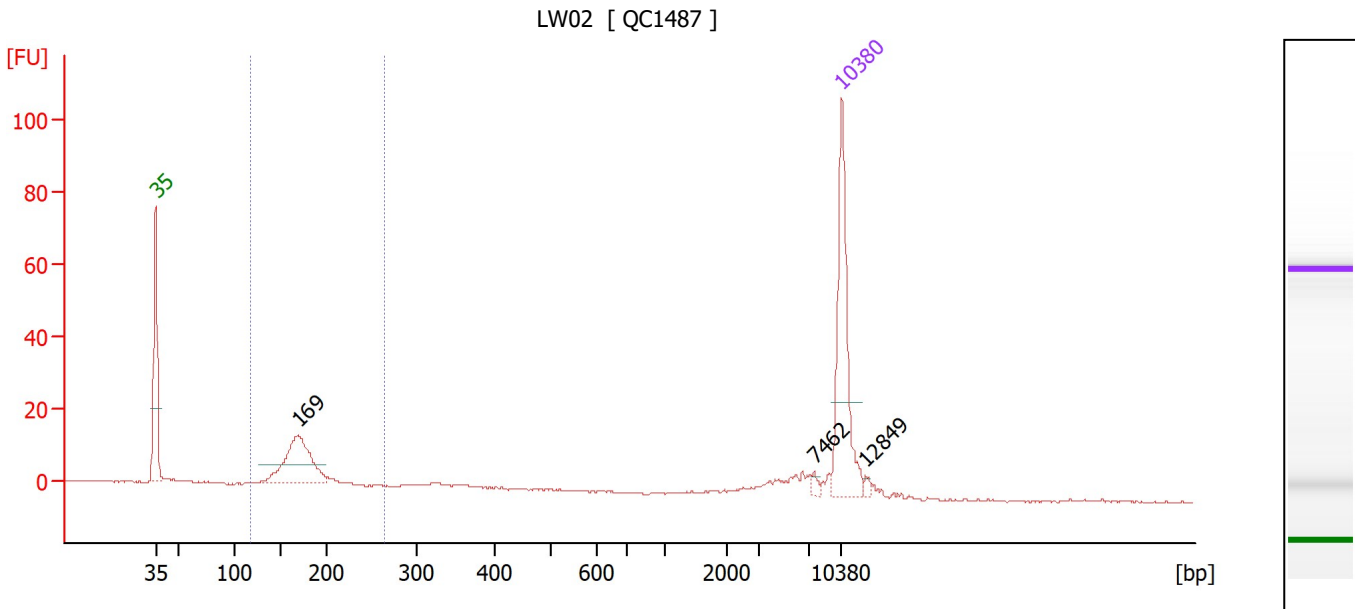
Region table for sample 3 : LW01

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
110	264	55.9	59	174	11.9	77.50	686.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : LW02

Number of peaks found: 3 Corr. Area 1: 80.4
 Noise: 0.2

Peak table for sample 4 : LW02

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	169	89.88	804.7	
3	7,462	3.11	0.6	
4	10,380	75.00	10.9	Upper Marker
5	12,849	0.00	0.0	

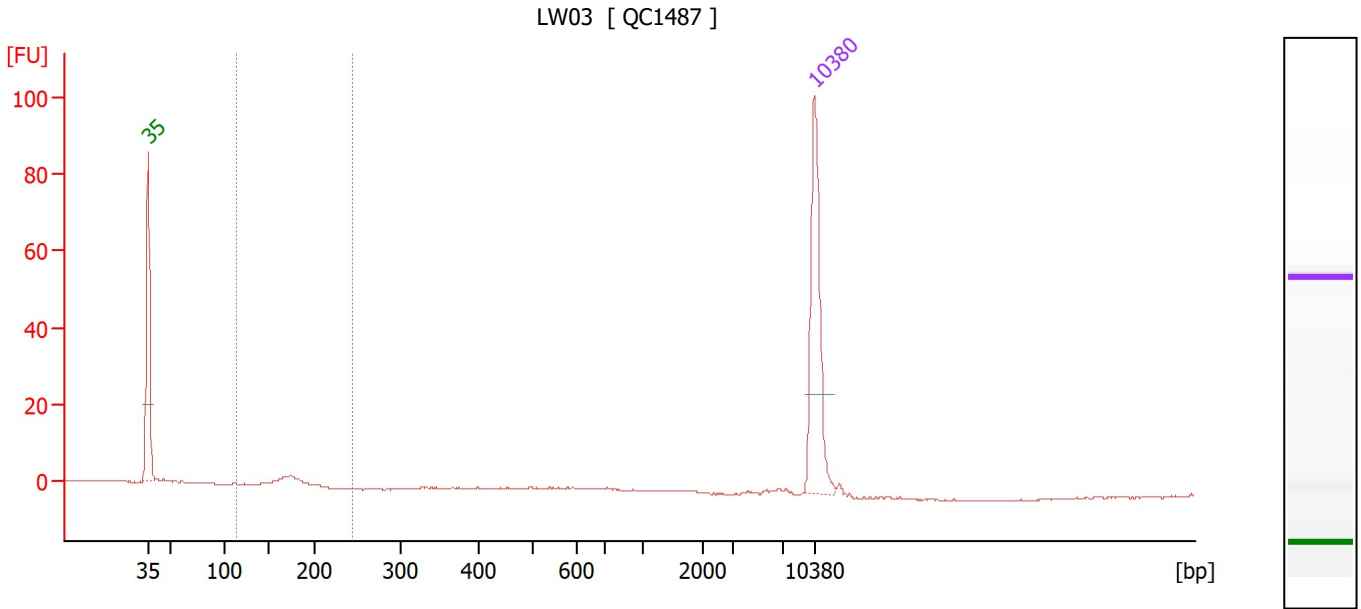
Region table for sample 4 : LW02

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
117	265	80.4	61	173	11.3	104.46	927.9	■

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Electropherogram Summary Continued ...



Overall Results for sample 5 : LW03

Number of peaks found: 0 Corr. Area 1: 6.7
 Noise: 0.2

Peak table for sample 5 : LW03

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

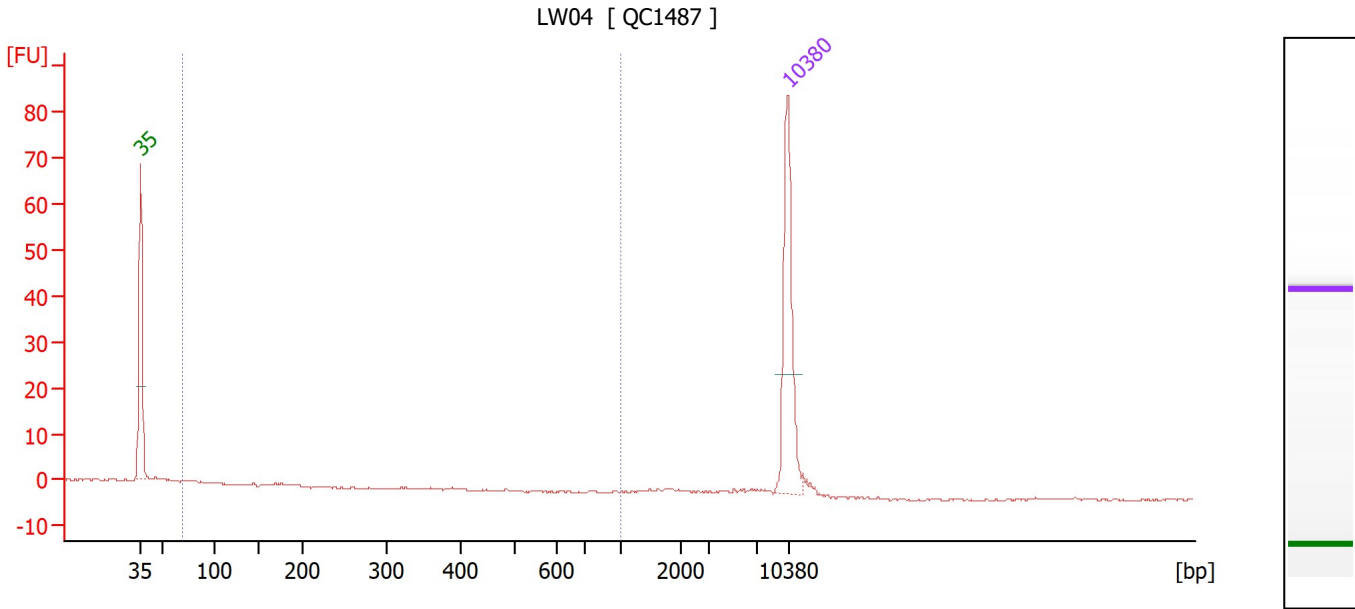
Region table for sample 5 : LW03

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
113	244	6.7	69	172	5.2	9.19	81.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : LW04

Number of peaks found: 0 Corr. Area 1: 0.4
 Noise: 0.2

Peak table for sample 6 : LW04

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

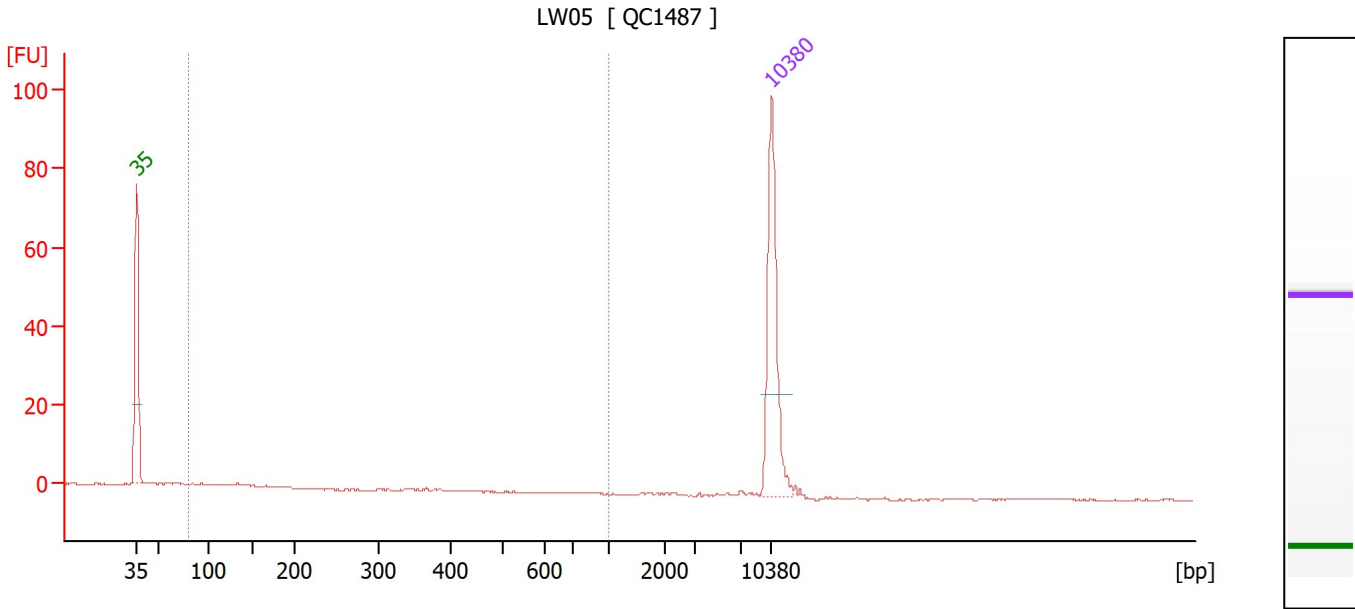
Region table for sample 6 : LW04

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
69	1,000	0.4	5	78	5.2	0.81	15.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : LW05

Number of peaks found: 0 Corr. Area 1: 5.5
 Noise: 0.1

Peak table for sample 7 : LW05

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

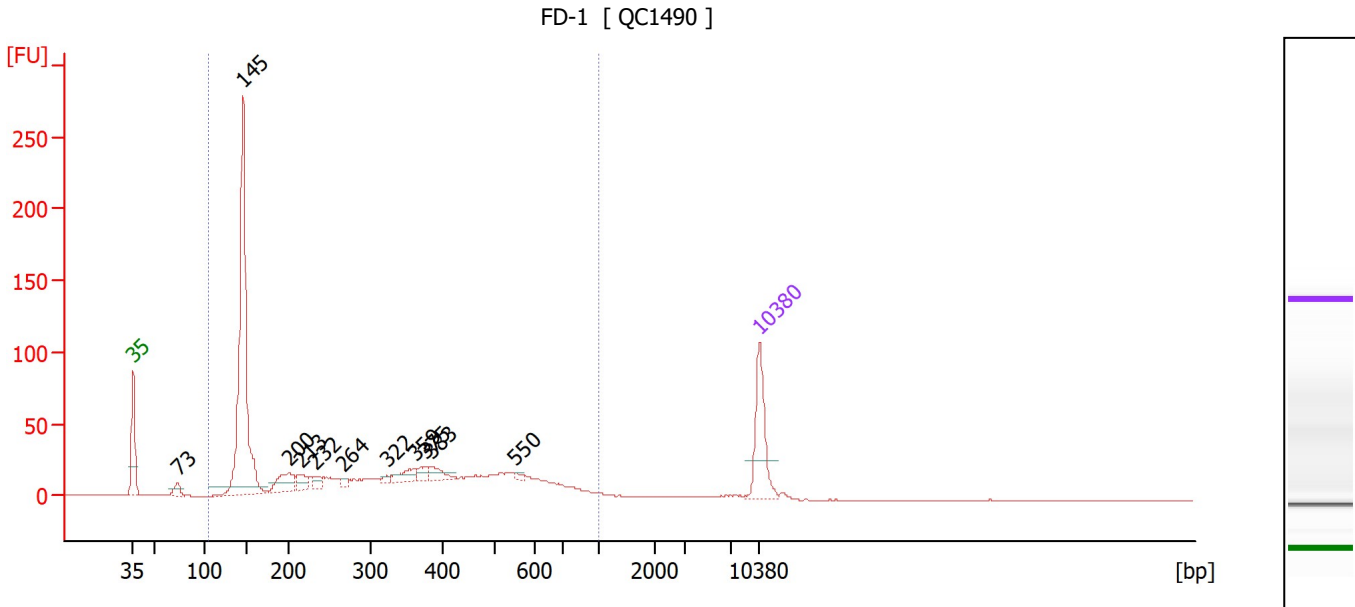
Region table for sample 7 : LW05

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
79	1,000	5.5	44	125	35.6	8.12	108.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : FD-1

Number of peaks found: 11 Corr. Area 1: 1,070.5
 Noise: 0.2

Peak table for sample 8 : FD-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	19.51	404.7	
3	145	529.63	5,515.7	
4	200	47.95	362.9	
5	213	25.64	182.8	
6	232	14.37	93.8	
7	264	6.11	35.1	
8	322	6.92	32.5	
9	359	26.02	109.9	
10	375	13.50	54.6	
11	383	18.35	72.6	
12	550	4.26	11.7	
13	10,380	75.00	10.9	Upper Marker

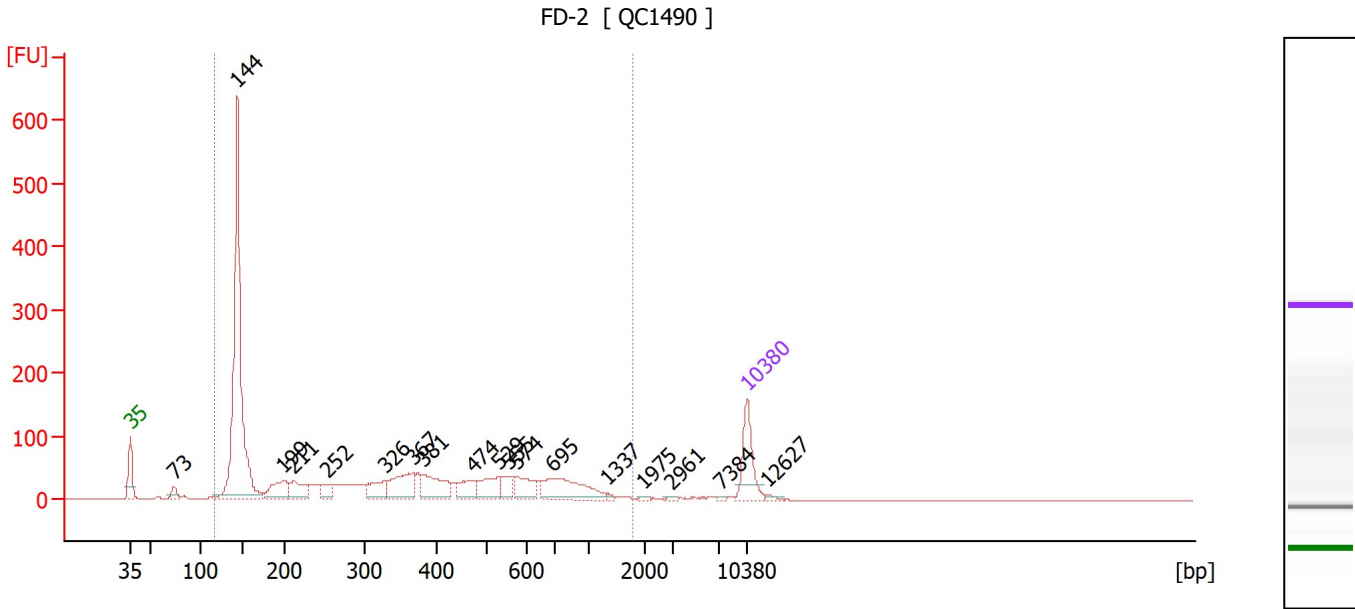
Region table for sample 8 : FD-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
105	1,000	1,070.5	96	320	55.8	1,205.93	8,759.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : FD-2

Number of peaks found: 18 Corr. Area 1: 2,352.4
 Noise: 0.2

Peak table for sample 9 : FD-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	24.35	504.3	
3	144	823.05	8,679.8	
4	199	78.99	602.6	
5	211	59.35	426.0	
6	252	30.83	185.4	
7	326	53.86	250.0	
8	367	97.57	402.9	
9	381	87.01	345.9	
10	474	46.00	147.0	
11	529	59.74	171.2	
12	555	32.91	89.8	
13	574	48.37	127.8	
14	695	114.82	250.4	
15	1,337	3.89	4.4	
16	1,975	2.50	1.9	
17	2,961	3.00	1.5	
18	7,384	2.21	0.5	
19	10,380	75.00	10.9	Upper Marker
20	12,627	0.00	0.0	

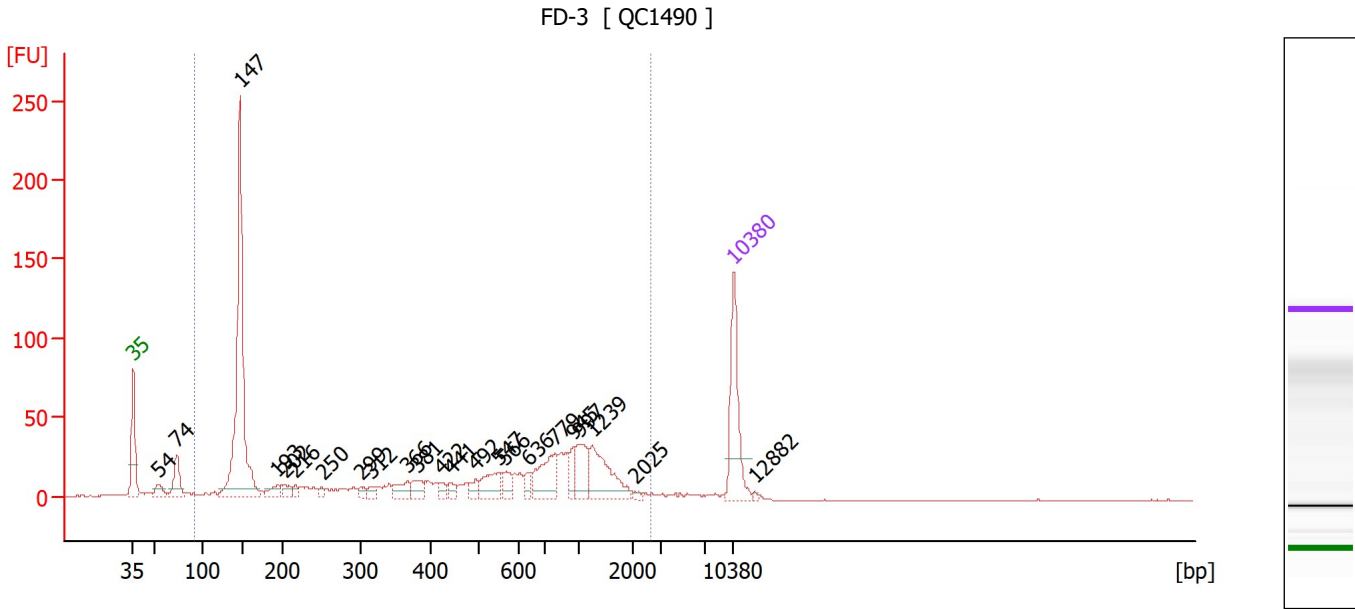
Region table for sample 9 : FD-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
118	1,777	2,352.4	96	367	70.2	1,706.64	12,385.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : FD-3

Number of peaks found: 23 Corr. Area 1: 978.9
 Noise: 0.2

Peak table for sample 10 : FD-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	18.80	523.7	
3	74	47.60	976.8	
4	147	397.16	4,088.3	
5	193	17.89	140.3	
6	202	13.61	101.9	
7	216	8.57	60.1	
8	250	6.41	38.9	
9	299	7.89	39.9	
10	312	8.63	41.9	
11	366	20.92	86.5	
12	381	16.74	66.6	
13	422	9.23	33.1	
14	441	9.96	34.2	
15	492	11.34	34.9	
16	547	33.34	92.4	
17	566	16.51	44.2	
18	636	11.43	27.3	
19	779	53.79	104.6	
20	945	18.22	29.2	
21	997	34.98	53.2	
22	1,239	63.74	77.9	
23	2,025	2.94	2.2	
24	10,380	75.00	10.9	Upper Marker
25	12,882	0.00	0.0	

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Electropherogram Summary Continued ...

... Region table for sample 10 :

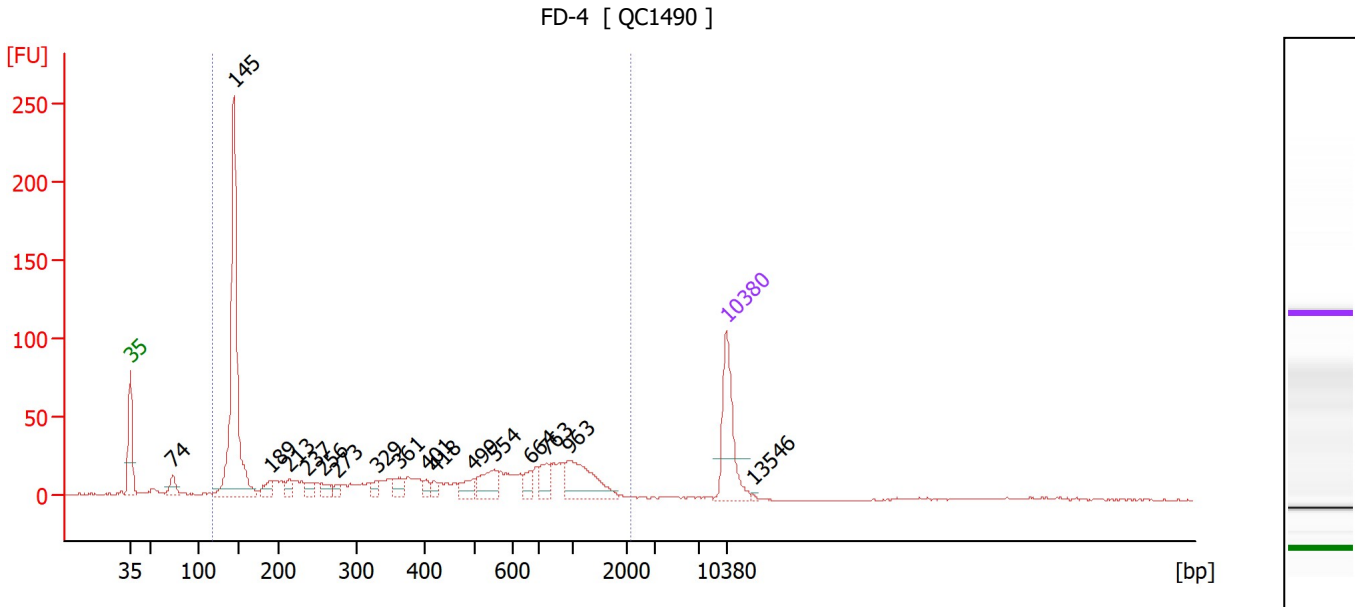
FD-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
92	2,608	978.9	91	589	79.0	904.59	5,867.4	■

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Electropherogram Summary Continued ...



Overall Results for sample 11 : FD-4

Number of peaks found: 17 Corr. Area 1: 939.2
 Noise: 0.3

Peak table for sample 11 : FD-4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	74	25.41	519.2	
3	145	411.64	4,306.6	
4	189	17.98	144.1	
5	213	15.79	112.2	
6	237	14.65	93.8	
7	256	14.24	84.4	
8	273	8.89	49.3	
9	329	11.29	52.0	
10	361	17.66	74.2	
11	401	9.41	35.5	
12	418	8.72	31.6	
13	499	20.92	63.5	
14	554	35.11	96.1	
15	664	14.73	33.6	
16	763	21.66	43.0	
17	963	66.76	105.0	
18	10,380	75.00	10.9	Upper Marker
19	13,546	0.00	0.0	

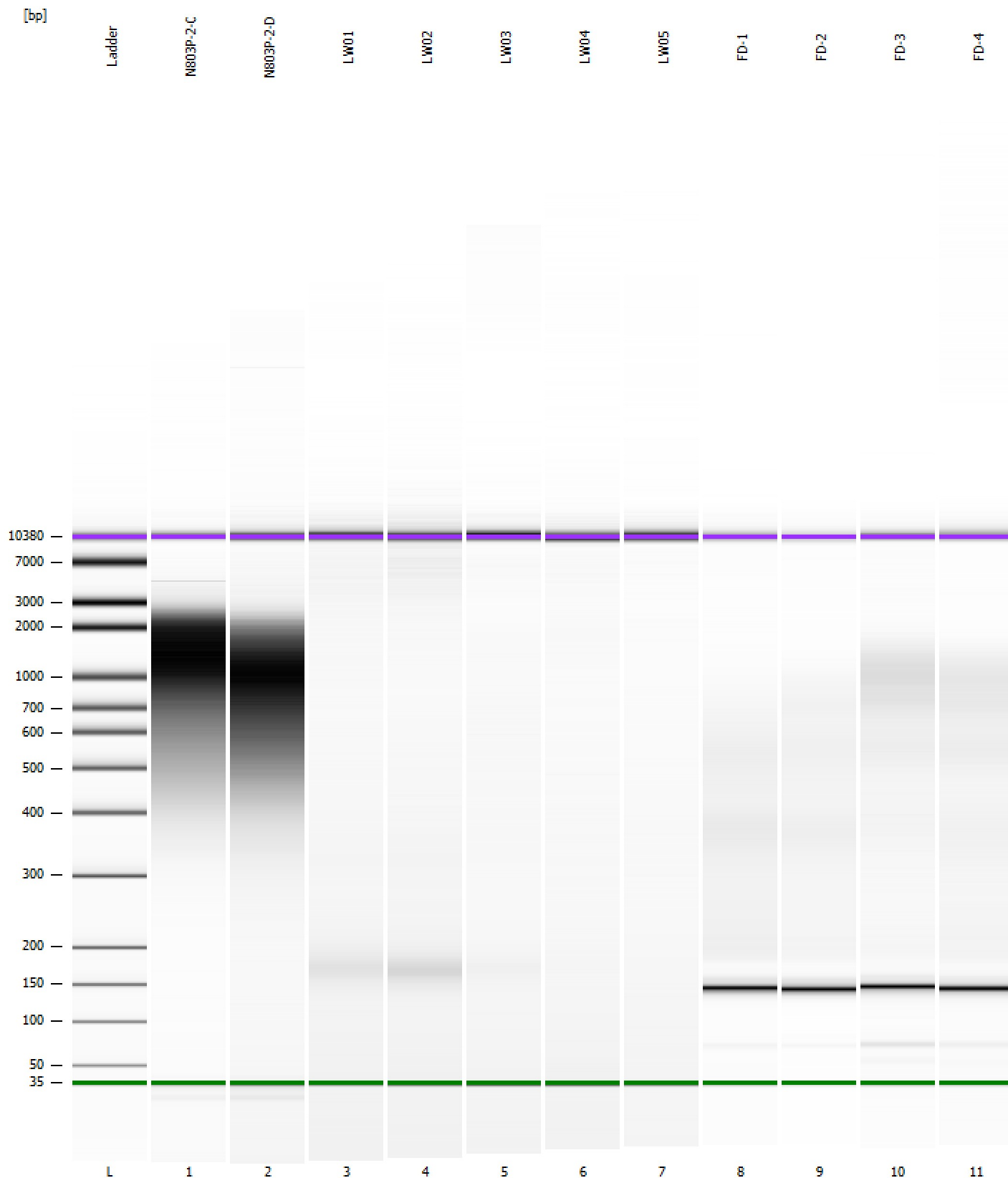
Region table for sample 11 : FD-4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
117	2,134	939.2	94	474	77.2	895.74	6,132.1	Blue

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Gel Image



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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		5/19/2023 11:25:01 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-05-19\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-19_001.xad)		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/19/2023 10:43:46 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/19/2023 10:43:45 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB