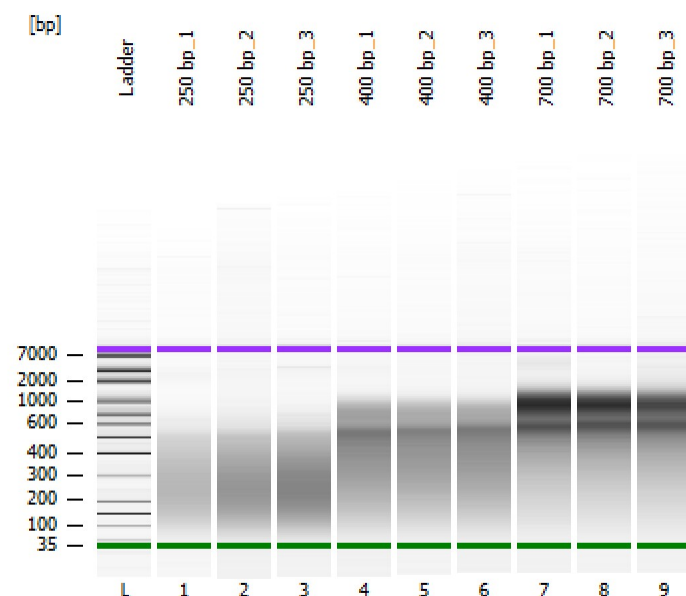


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electrophoresis File Run Summary



Instrument Information:

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

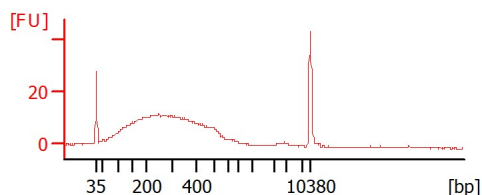
Assay Information:

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

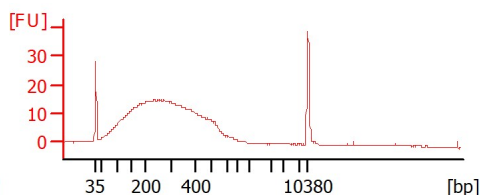
Chip Information:

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

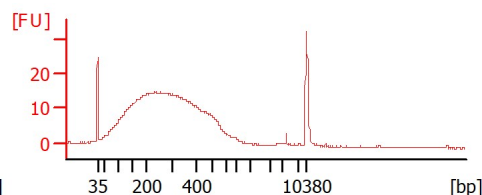
250 bp_1



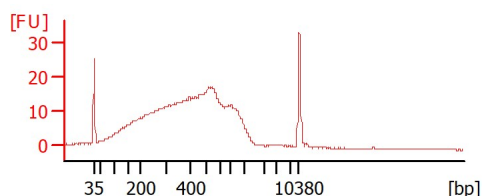
250 bp_2



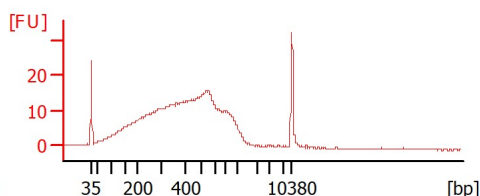
250 bp_3



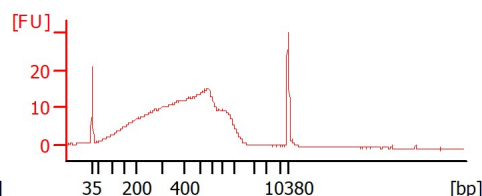
400 bp_1



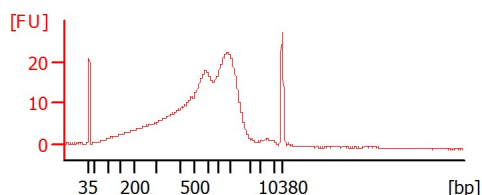
400 bp_2



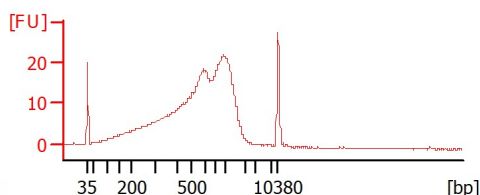
400 bp_3



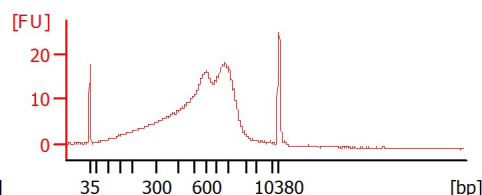
700 bp_1



700 bp_2



700 bp_3



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
250 bp_1		☐	✓			
250 bp_2		☐	✓			
250 bp_3		☐	✓			
400 bp_1		☐	✓			
400 bp_2		☐	✓			
400 bp_3		☐	✓			
700 bp_1		☐	✓			
700 bp_2		☐	✓			
700 bp_3		☐	✓			
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 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

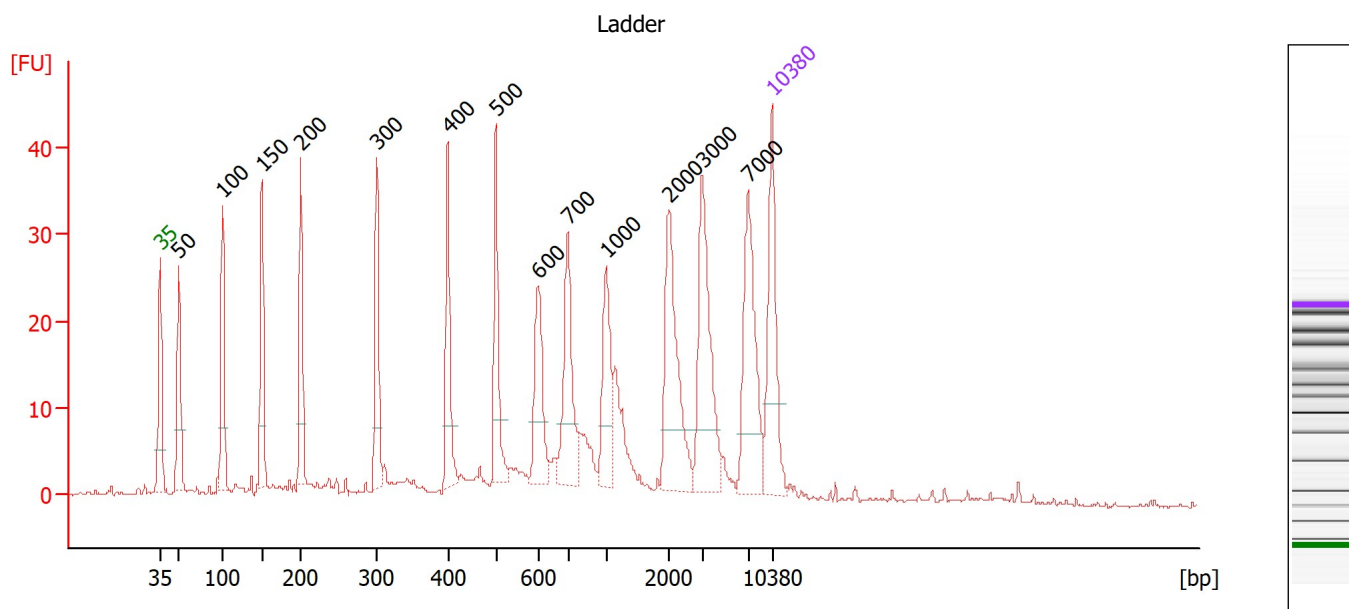
Ladder

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:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary



Overall Results for Ladder

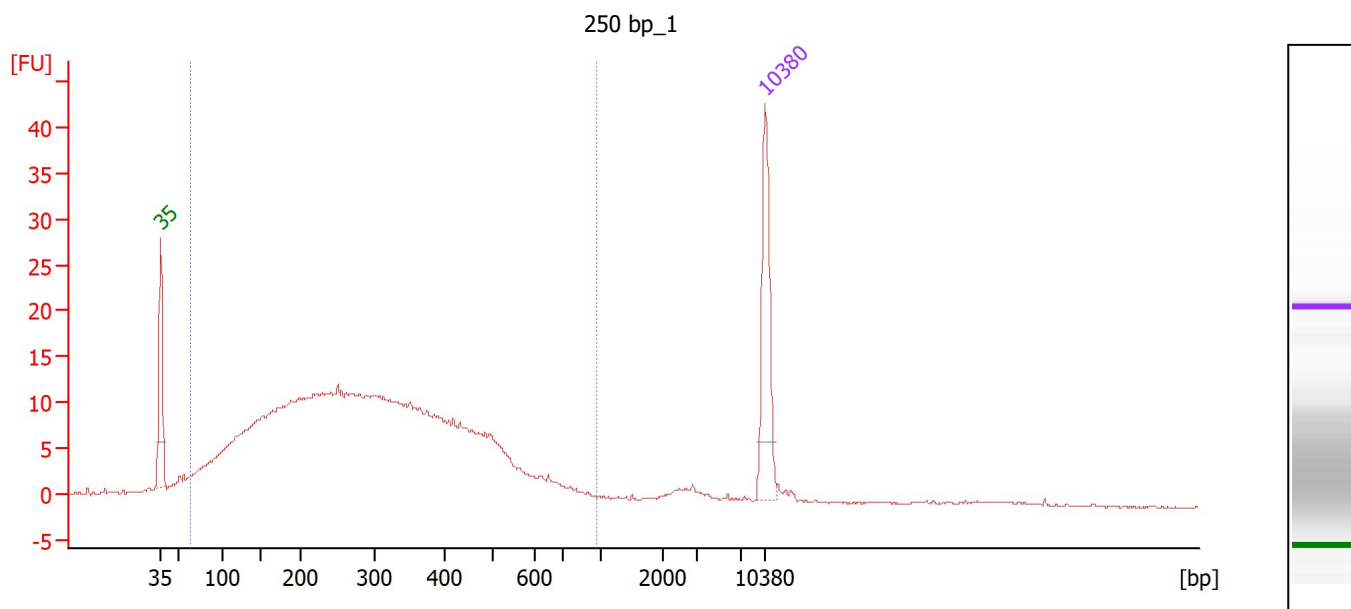
Noise: 0.2

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:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : 250 bp_1**

Number of peaks found: 0 Corr. Area 1: 458.9
Noise: 0.1

Peak table for sample 1 : 250 bp_1

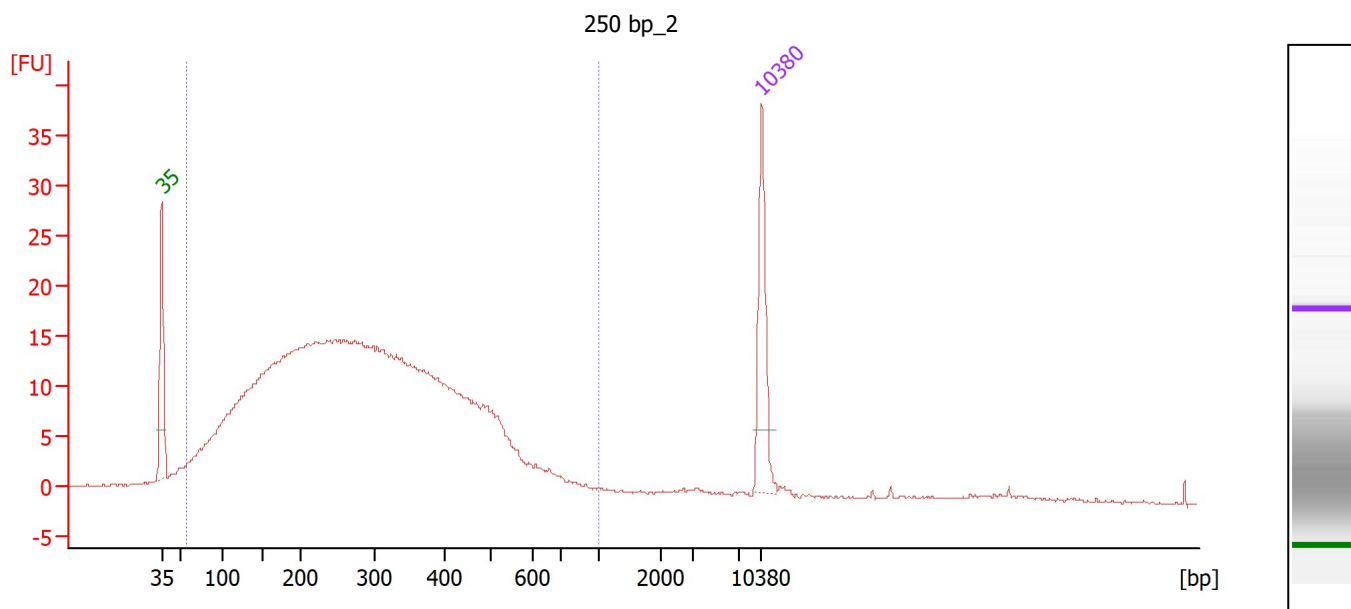
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : 250 bp_1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
62	963	458.9	95	303	46.3	1,506.14	10,838.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : 250 bp_2**

Number of peaks found: 0 Corr. Area 1: 596.5
Noise: 0.1

Peak table for sample 2 : 250 bp_2

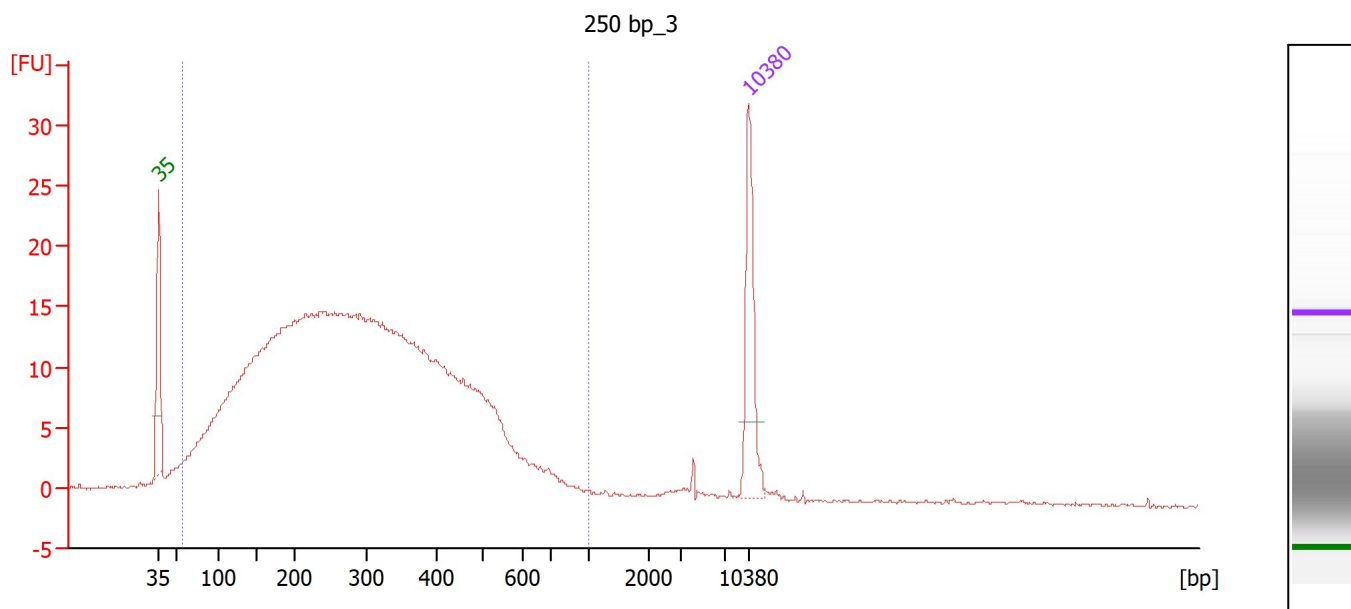
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : 250 bp_2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
57	1,000	596.5	96	297	46.8	2,388.11	17,635.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : 250 bp_3**

Number of peaks found: 0 Corr. Area 1: 595.4
Noise: 0.1

Peak table for sample 3 : 250 bp_3

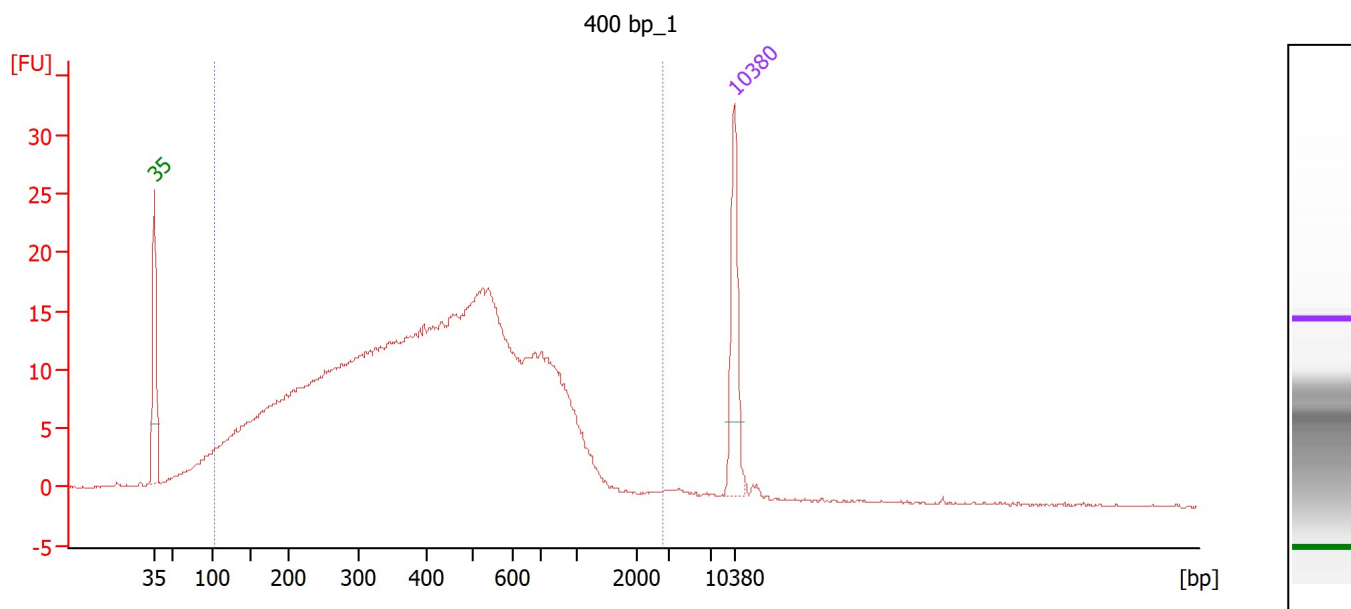
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : 250 bp_3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
57	1,000	595.4	98	299	46.6	2,525.86	18,486.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : 400 bp_1**

Number of peaks found: 0 Corr. Area 1: 605.9
Noise: 0.1

Peak table for sample 4 : 400 bp_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

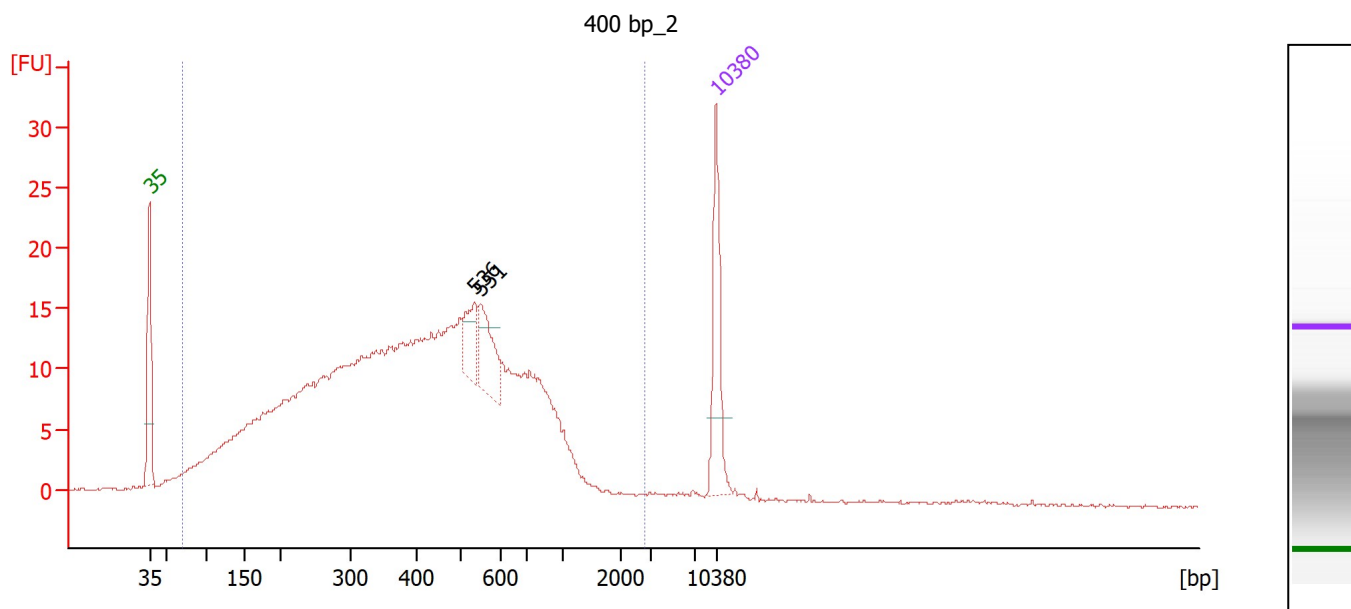
Region table for sample 4 : 400 bp_1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
102	2,861	605.9	95	459	57.6	2,551.66	12,747.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
 Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 400 bp_2

Number of peaks found: 2 Corr. Area 1: 551.7
 Noise: 0.1

Peak table for sample 5 : 400 bp_2

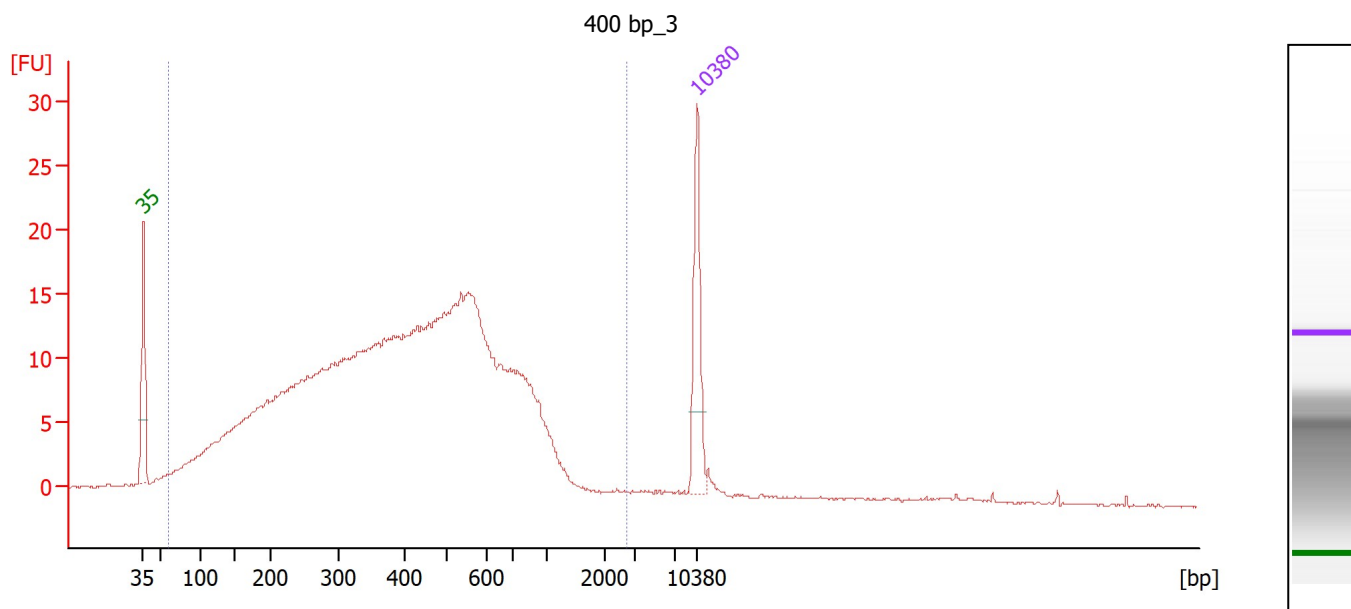
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	536	41.70	117.9	
3	551	60.19	165.6	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : 400 bp_2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
69	2,804	551.7	98	448	56.5	2,384.92	12,706.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : 400 bp_3**

Number of peaks found: 0 Corr. Area 1: 530.0
Noise: 0.1

Peak table for sample 6 : 400 bp_3

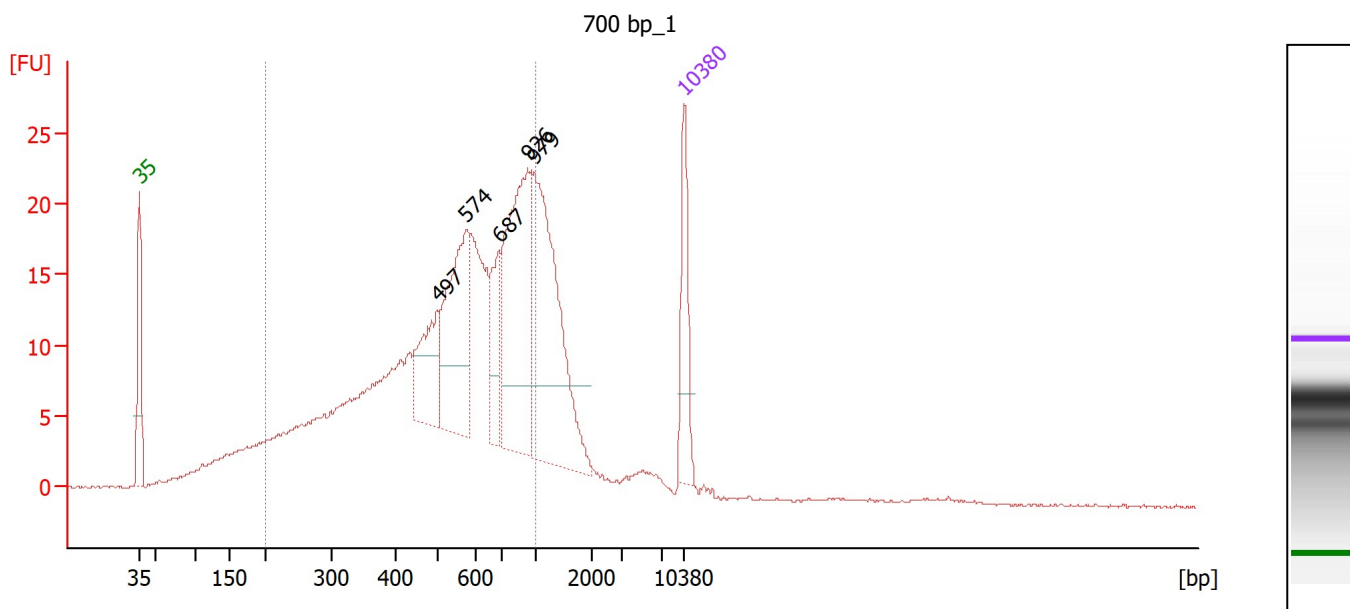
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : 400 bp_3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60	2,783	530.0	98	448	55.6	2,488.53	13,372.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : 700 bp_1**

Number of peaks found: 5 Corr. Area 1: 415.1
Noise: 0.1

Peak table for sample 7 : 700 bp_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	497	112.04	341.5	
3	574	197.27	520.7	
4	687	70.60	155.7	
5	926	259.80	425.0	
6	979	298.84	462.7	
7	10,380	75.00	10.9	Upper Marker

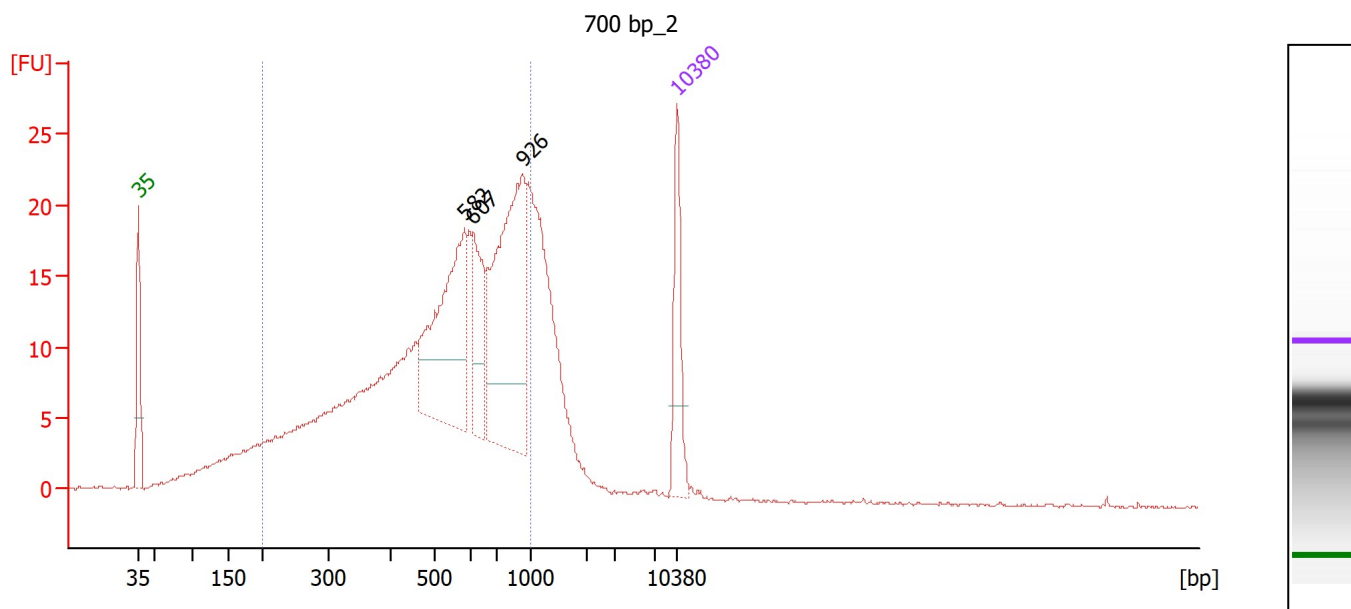
Region table for sample 7 : 700 bp_1

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	415.1	76	564	36.6	1,920.54	6,464.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
 Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 700 bp_2

Number of peaks found: 3 Corr. Area 1: 410.0
 Noise: 0.1

Peak table for sample 8 : 700 bp_2

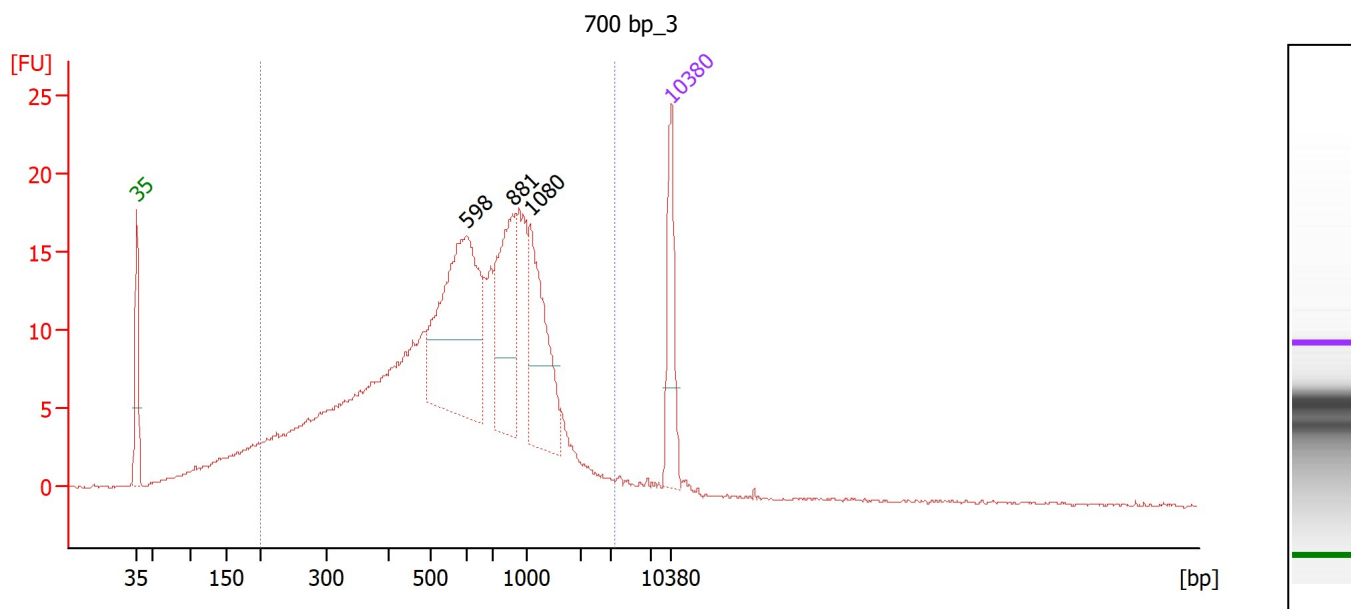
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	582	256.20	667.0	
3	607	96.76	241.6	
4	926	318.38	521.2	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : 700 bp_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	410.0	78	563	36.5	1,855.40	6,252.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : 700 bp_3**

Number of peaks found: 3 Corr. Area 1: 419.5
Noise: 0.1

Peak table for sample 9 : 700 bp_3

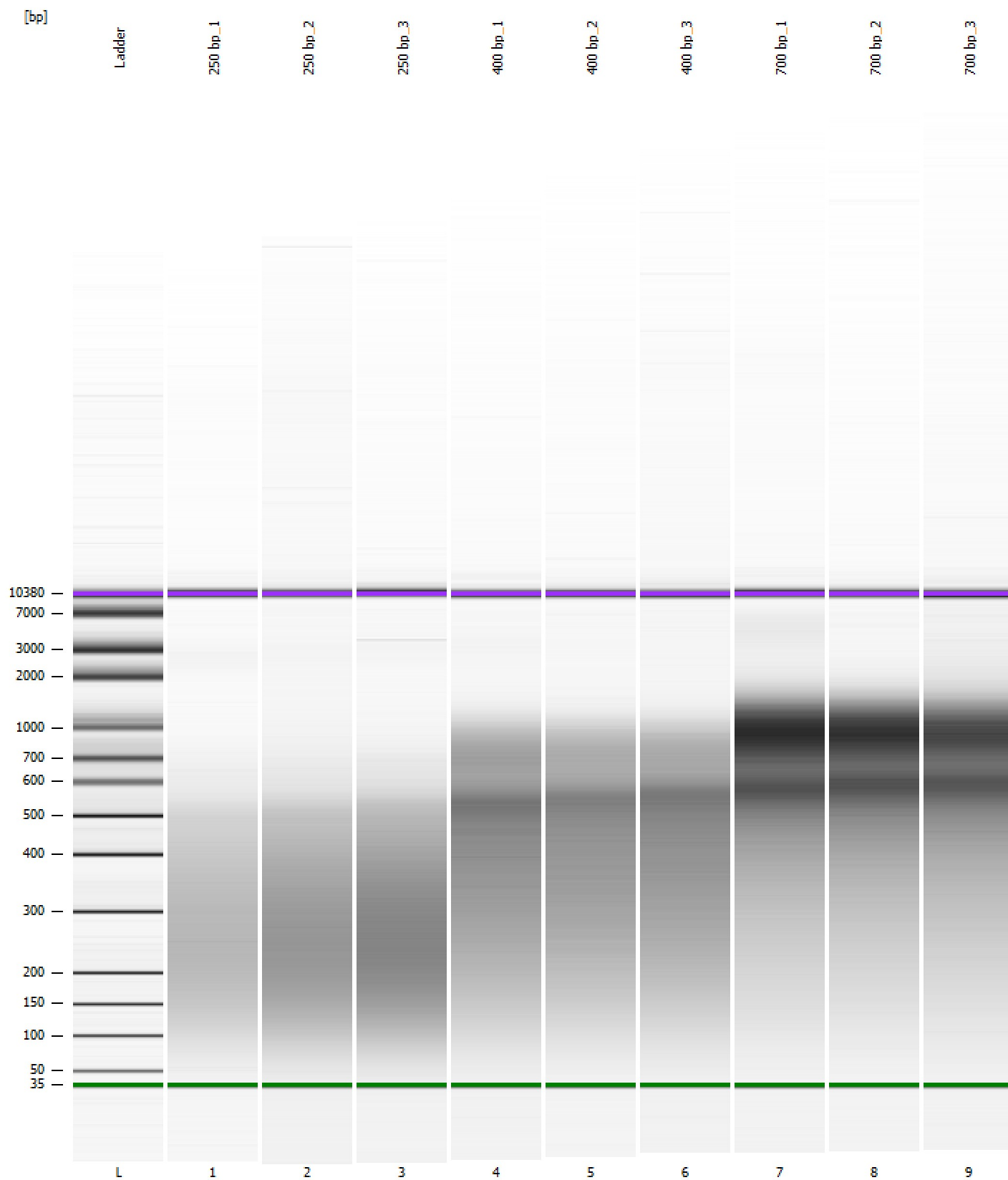
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	598	301.08	763.4	
3	881	151.08	260.0	
4	1,080	136.69	191.8	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : 700 bp_3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	3,460	419.5	91	713	59.2	1,983.68	6,154.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2025-08-29\Sonication_Testing.xad

Created: 8/29/2025 12:49:26 PM
Modified: 8/29/2025 2:12:26 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		8/29/2025 1:30:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2025-08-29\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-08-29_001.xad)		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/29/2025 12:49:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB