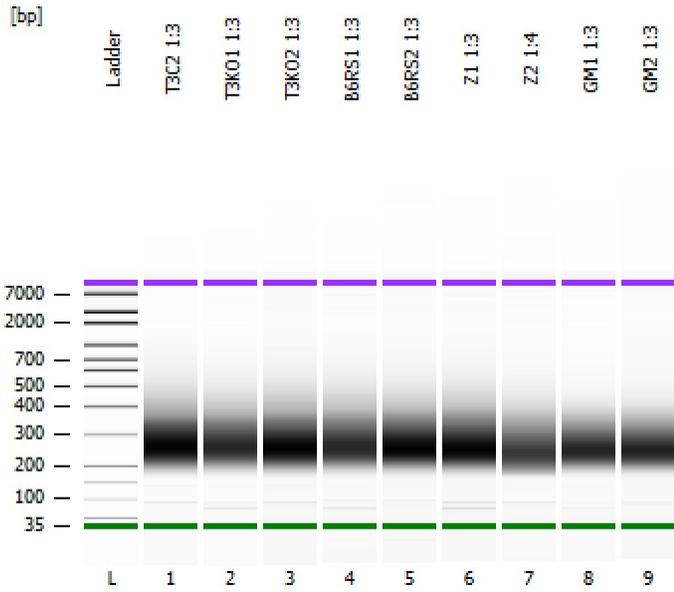|	
Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad

Created:　3/17/2023 5:46:08 PM
Modified:　3/17/2023 7:11:15 PM

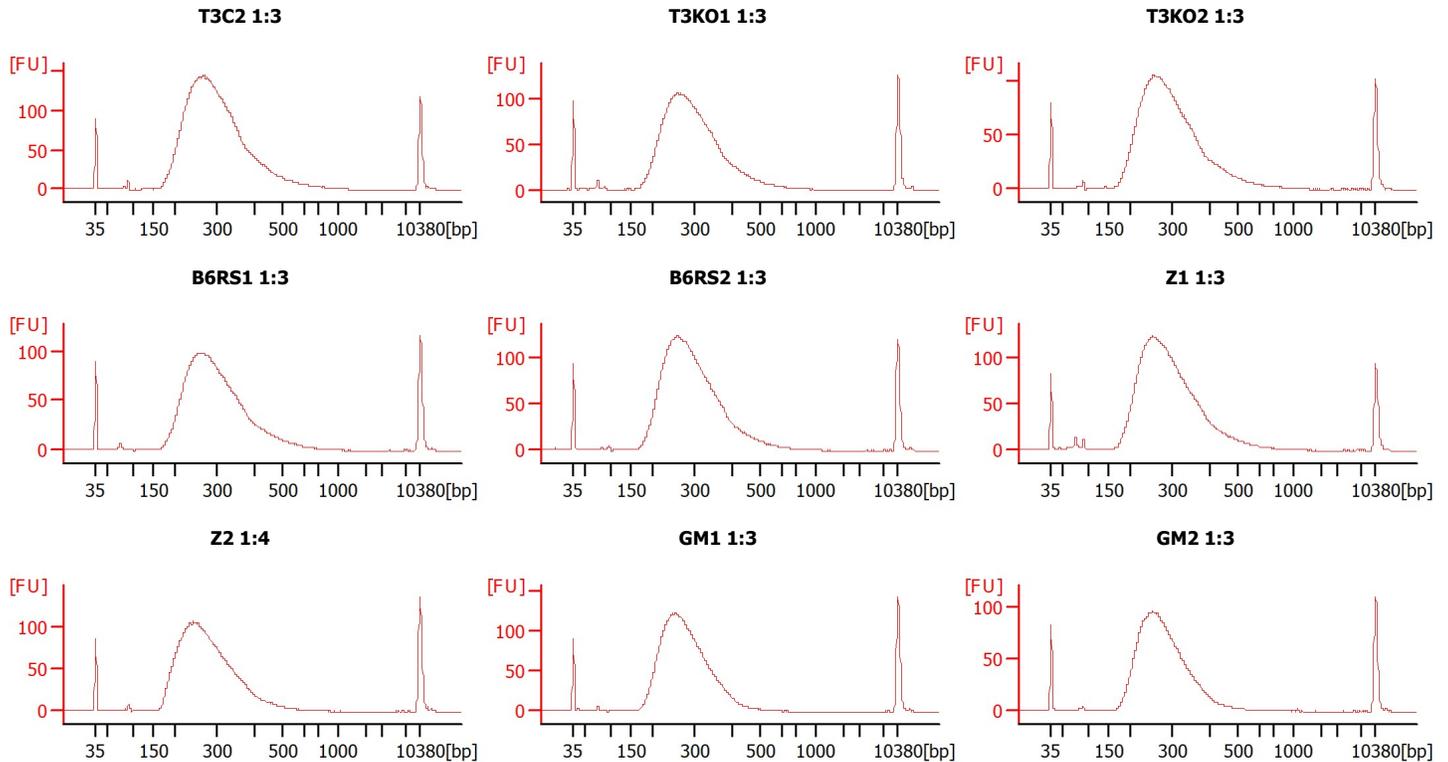## Electrophoresis File Run Summary

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:

			Created:	3/17/2023 5:46:08 PM
Assay Class:	High Sensitivity DNA Assay			
Data Path:	C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad		Modified:	3/17/2023 7:11:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
T3C2 1:3		☐	✔			
T3KO1 1:3		☐	✔			
T3KO2 1:3		☐	✔			
B6RS1 1:3		☐	✔			
B6RS2 1:3		☐	✔			
Z1 1:3		☐	✔			
Z2 1:4		☐	✔			
GM1 1:3		☐	✔			
GM2 1:3		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class:	High Sensitivity DNA Assay		Created:	3/17/2023 5:46:08 PM
Data Path:	C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad		Modified:	3/17/2023 7:11:15 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   Created: 3/17/2023 5:46:08 PM
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad   Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary
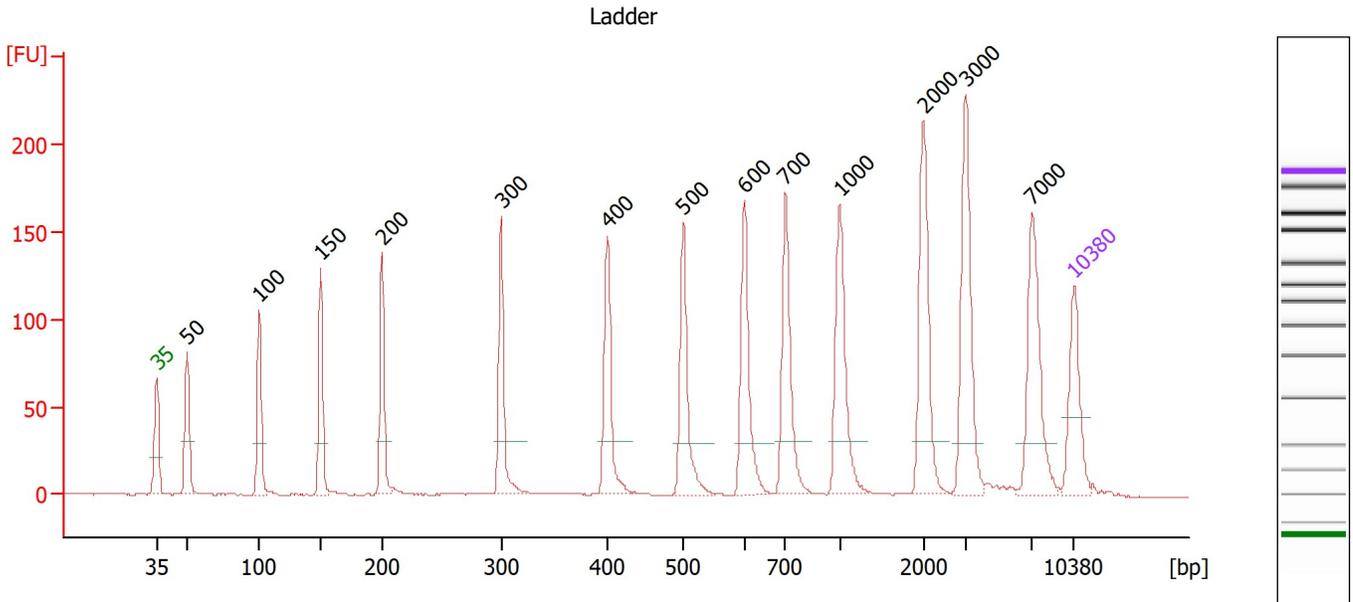
Overall Results for Ladder

Noise: 0.2
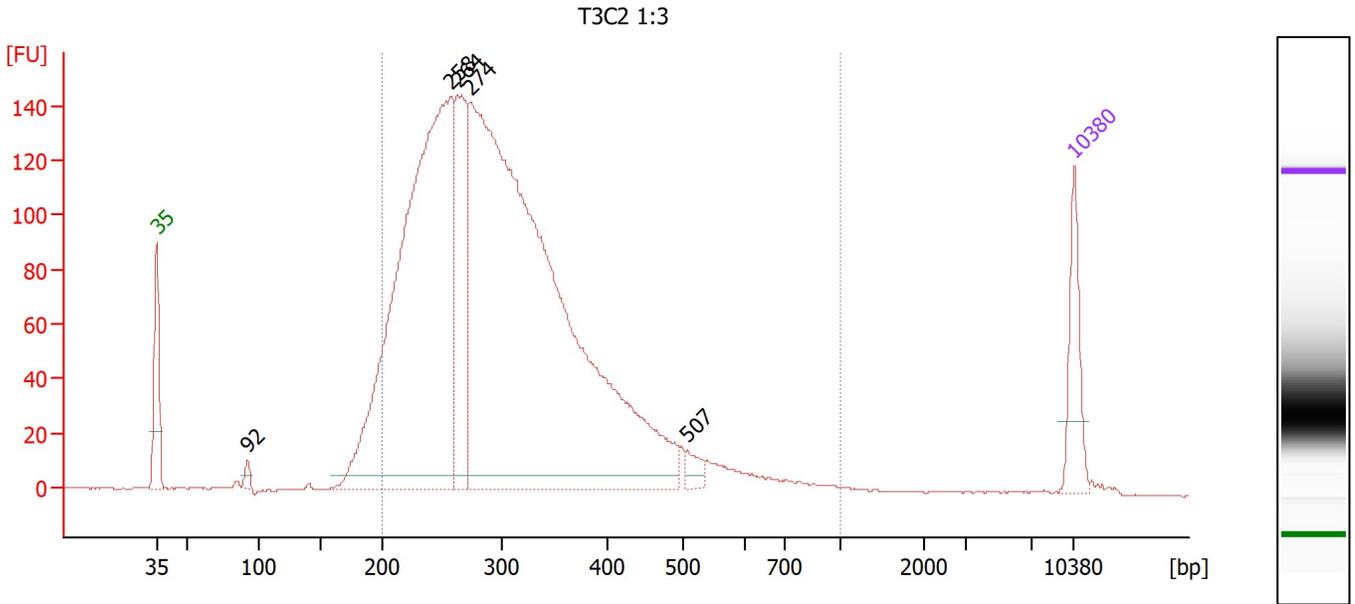
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay   Created: 3/17/2023 5:46:08 PM
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad   Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary Continued ...

T3C2 1:3

Overall Results for sample 1 :   T3C2 1:3

Number of peaks found:	5	Corr. Area 1:	2,880.3
Noise:	0.2		

Peak table for sample 1 :   T3C2 1:3

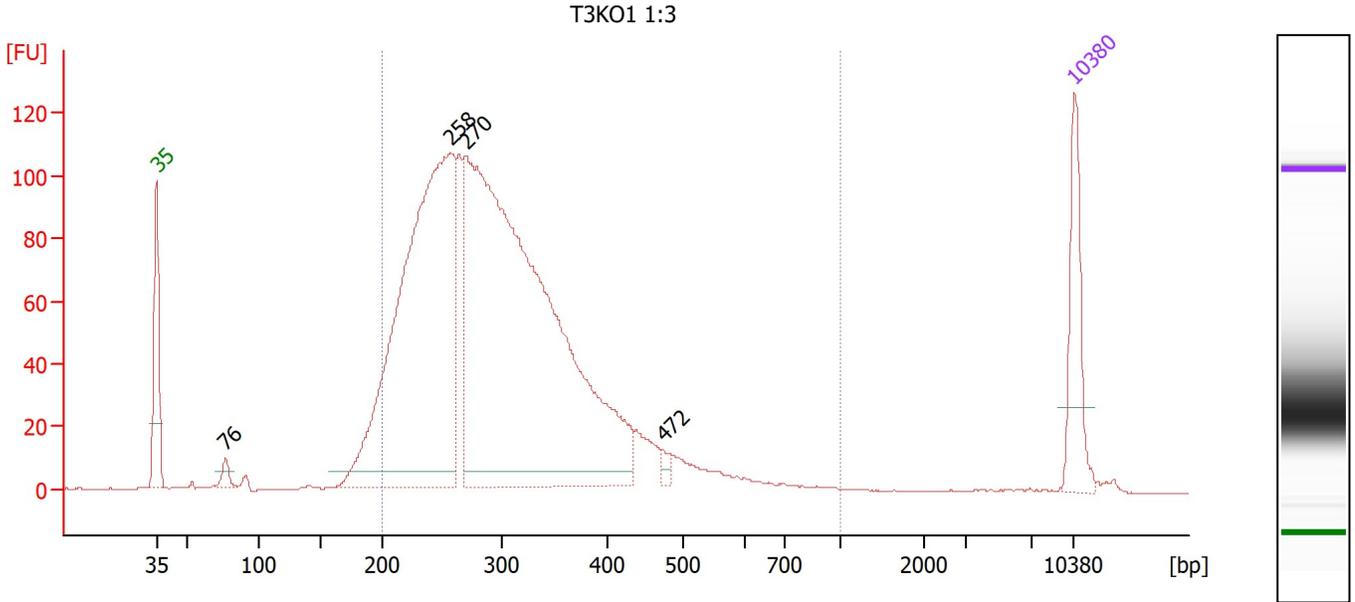| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		92	14.45	239.1	
3		258	1,397.01	8,216.0	
4		264	284.69	1,636.4	
5		274	2,187.45	12,101.5	
6		507	21.83	65.2	
7	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 1 :   T3C2 1:3

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	2,880.3	95	312	29.5	3,685.50	19,396.7	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad

Created: 3/17/2023 5:46:08 PM
Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary Continued ...

T3KO1 1:3

Overall Results for sample 2 :   T3KO1 1:3

Number of peaks found:	4	Corr. Area 1:	2,073.4
Noise:	0.2		

Peak table for sample 2 :   T3KO1 1:3

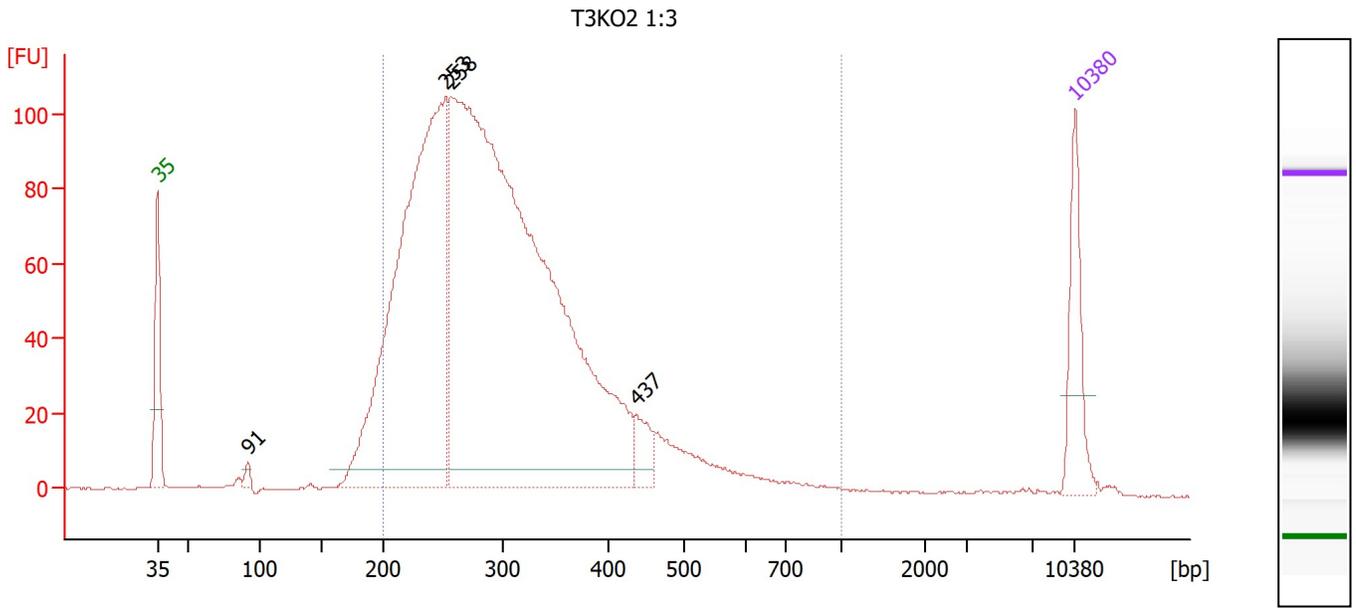| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		76	16.00	317.0	
3		258	890.06	5,232.7	
4		270	1,329.08	7,450.3	
5		472	10.00	32.1	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 2 :   T3KO1 1:3

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	2,073.4	94	308	28.0	2,283.48	12,103.1	◼

Assay Class: High Sensitivity DNA Assay   Created: 3/17/2023 5:46:08 PM
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad   Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary Continued ...

T3KO2 1:3

Overall Results for sample 3 :   T3KO2 1:3

Number of peaks found:	4	Corr. Area 1:	2,042.3
Noise:	0.2		

Peak table for sample 3 :   T3KO2 1:3

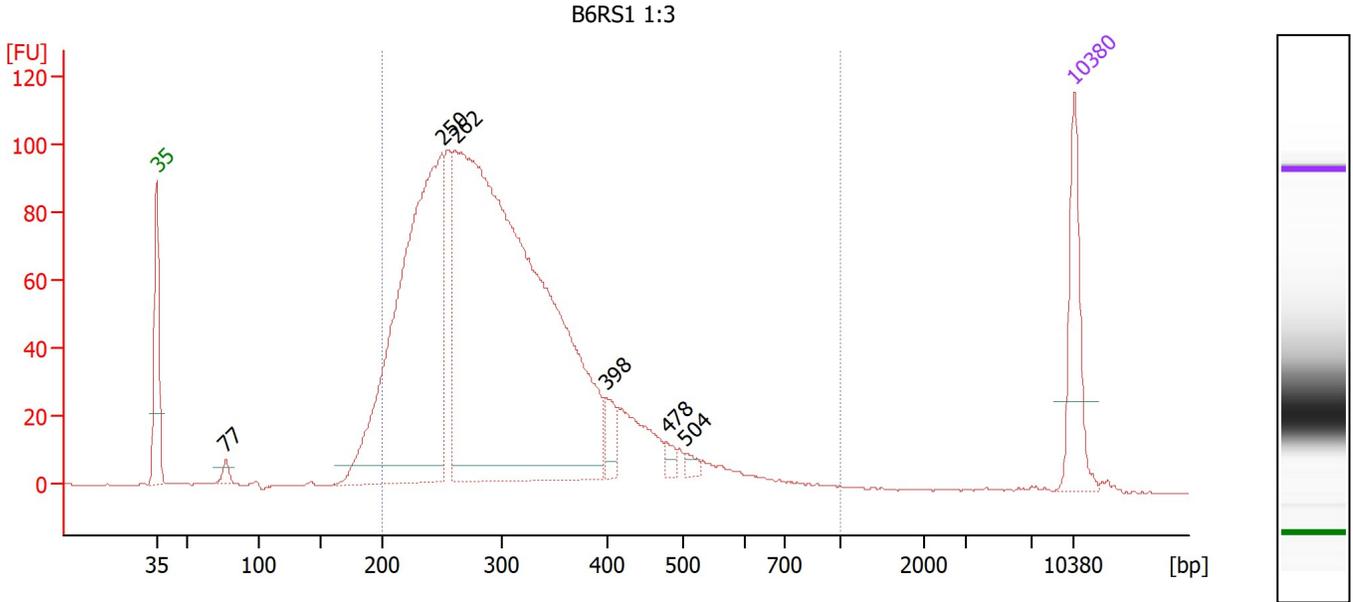| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		91	10.95	182.3	
3		253	974.84	5,844.4	
4		258	1,867.83	10,980.6	
5		437	37.73	130.9	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 3 :   T3KO2 1:3

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	2,042.3	93	310	29.8	2,773.63	14,704.7	■

Electropherogram Summary Continued ...

B6RS1 1:3

Overall Results for sample 4 :   B6RS1 1:3

Number of peaks found:	6	Corr. Area 1:	1,932.5
Noise:	0.1		

Peak table for sample 4 :   B6RS1 1:3

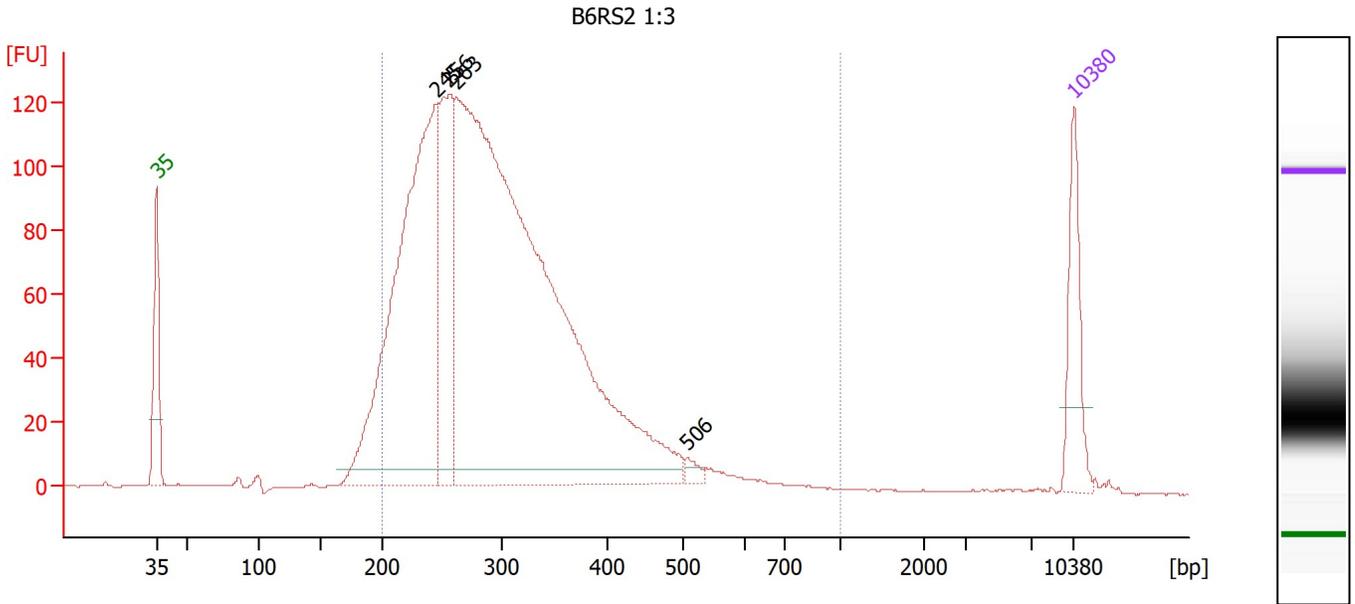| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		77	13.10	259.2	
3		250	720.16	4,359.3	
4		262	1,378.77	7,983.0	
5		398	31.38	119.5	
6		478	10.88	34.5	
7		504	8.52	25.6	
8	►	10,380	75.00	10.9	Upper Marker

Region table for sample 4 :   B6RS1 1:3

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	1,932.5	95	311	28.6	2,293.38	12,096.7	▪

Electropherogram Summary Continued ...

B6RS2 1:3

Overall Results for sample 5 : __B6RS2 1:3__

Number of peaks found:	4	Corr. Area 1:	2,284.8
Noise:	0.2		

Peak table for sample 5 : __B6RS2 1:3__

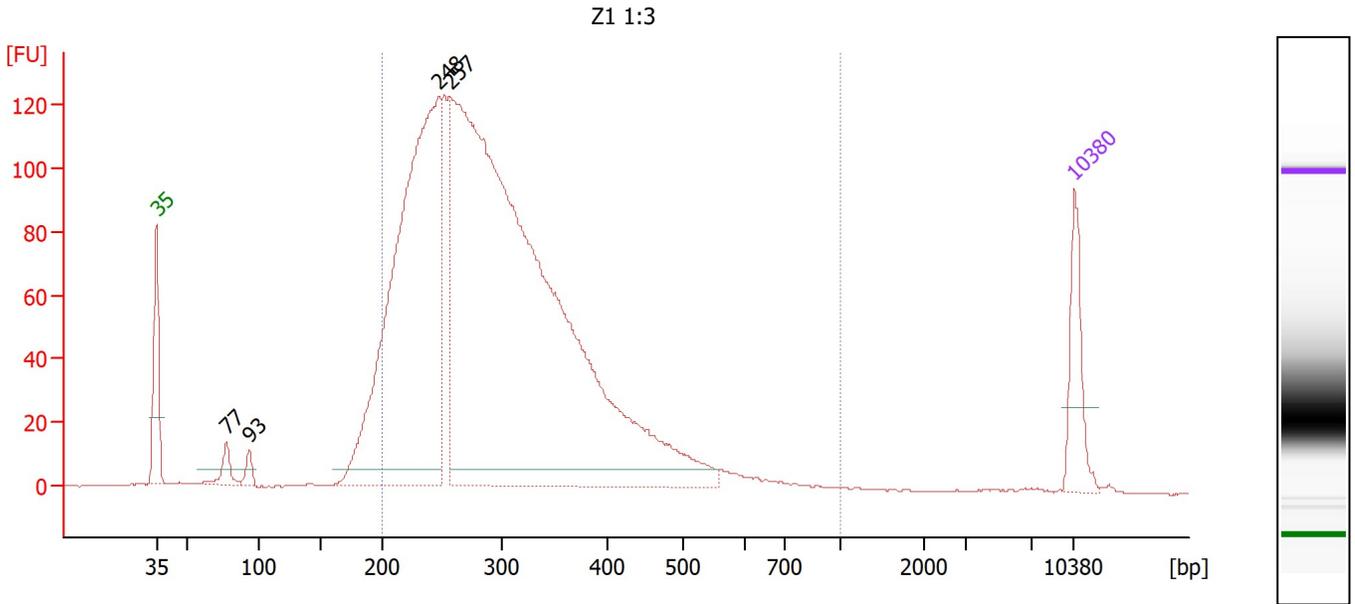| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		245	809.62	5,012.9	
3		256	268.76	1,591.6	
4		263	1,757.71	10,130.8	
5		506	11.30	33.8	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : __B6RS2 1:3__

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	2,284.8	94	304	27.1	2,652.92	14,160.3	■

Electropherogram Summary Continued ...

Z1 1:3

Overall Results for sample 6 :   Z1 1:3

Number of peaks found:	4	Corr. Area 1:	2,299.4
Noise:	0.2		

Peak table for sample 6 :   Z1 1:3

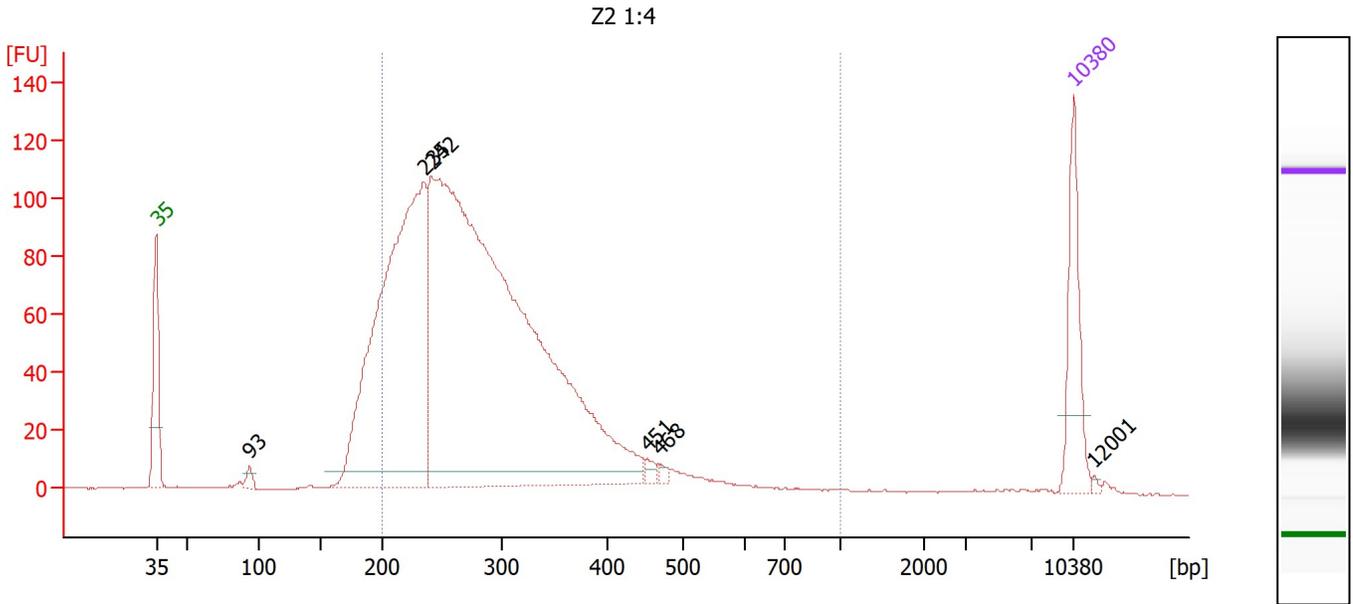| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		77	39.57	780.1	
3		93	23.04	375.1	
4		248	1,138.87	6,965.3	
5		257	2,400.75	14,134.2	
6	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 6 :   Z1 1:3

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	2,299.4	92	306	28.5	3,385.60	18,101.0	▪

| Assay Class: | High Sensitivity DNA Assay | | Created: | 3/17/2023 5:46:08 PM |
| Data Path: | C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad | | Modified: | 3/17/2023 7:11:15 PM |

Electropherogram Summary Continued ...

Z2 1:4

Overall Results for sample 7 :   Z2 1:4

| Number of peaks found: | 6 | Corr. Area 1: | 1,884.1 |
| Noise: | 0.2 | | |

Peak table for sample 7 :   Z2 1:4

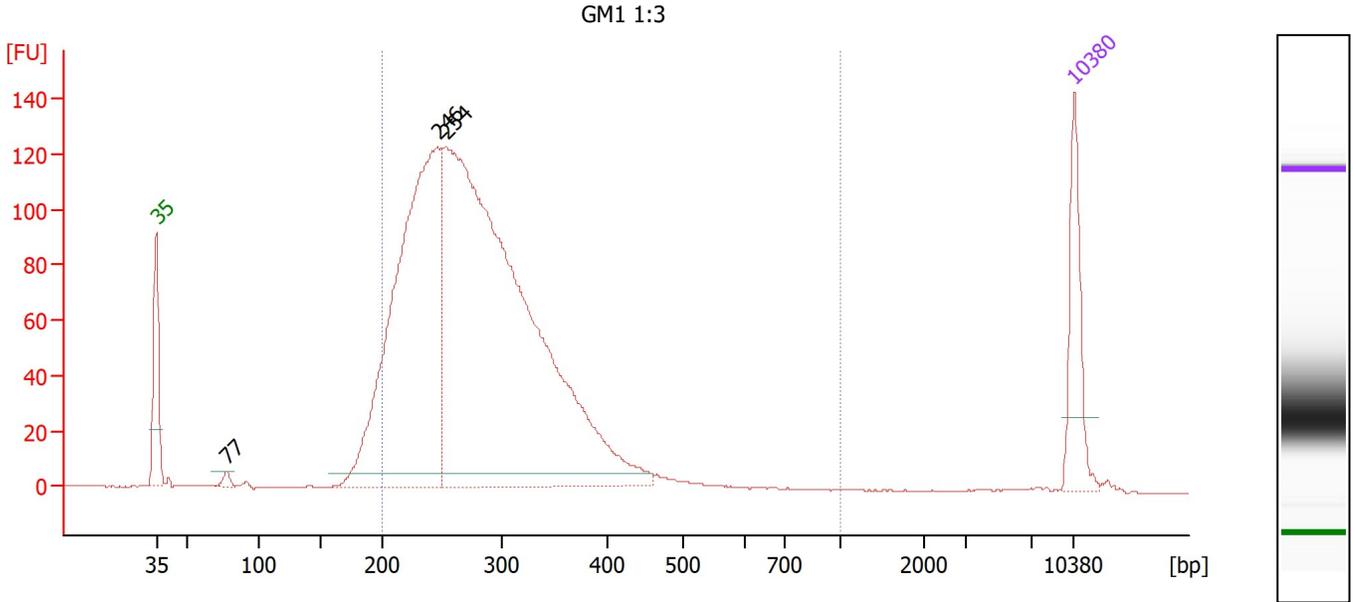| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		93	11.34	184.6	
3		235	753.26	4,847.5	
4		242	1,572.96	9,866.9	
5		451	7.96	26.8	
6		468	5.35	17.3	
7	▶	10,380	75.00	10.9	Upper Marker
8		12,001	0.00	0.0	

Region table for sample 7 :   Z2 1:4

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	1,884.1	88	293	27.3	2,068.27	11,423.6	🟦

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad

Created: 3/17/2023 5:46:08 PM
Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary Continued ...

GM1 1:3

Overall Results for sample 8 : GM1 1:3

Number of peaks found:	3	Corr. Area 1:	1,976.5
Noise:	0.2		

Peak table for sample 8 : GM1 1:3

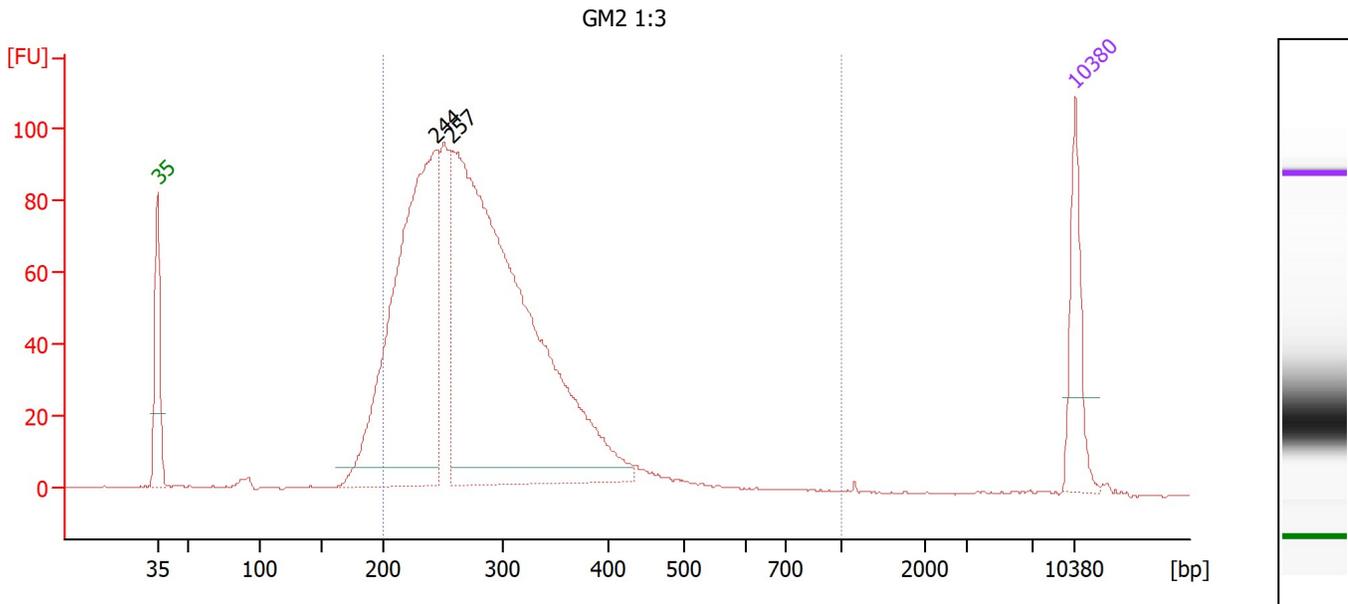| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		77	9.19	181.0	
3		246	781.60	4,808.9	
4		254	1,406.46	8,399.2	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : GM1 1:3

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	1,976.5	94	286	22.7	2,019.96	11,206.1	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad

Created: 3/17/2023 5:46:08 PM
Modified: 3/17/2023 7:11:15 PM

Electropherogram Summary Continued ...

GM2 1:3

Overall Results for sample 9 :   GM2 1:3

Number of peaks found:	2	Corr. Area 1:	1,542.9
Noise:	0.2		

Peak table for sample 9 :   GM2 1:3

| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1 ◀	35	125.00	5,411.3	Lower Marker
2	244	763.57	4,733.3	
3	257	1,254.84	7,399.6	
4 ▶	10,380	75.00	10.9	Upper Marker

Region table for sample 9 :   GM2 1:3

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	1,542.9	94	287	24.2	2,084.69	11,579.4	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad

Created: 3/17/2023 5:46:08 PM
Modified: 3/17/2023 7:11:15 PM

Gel Image
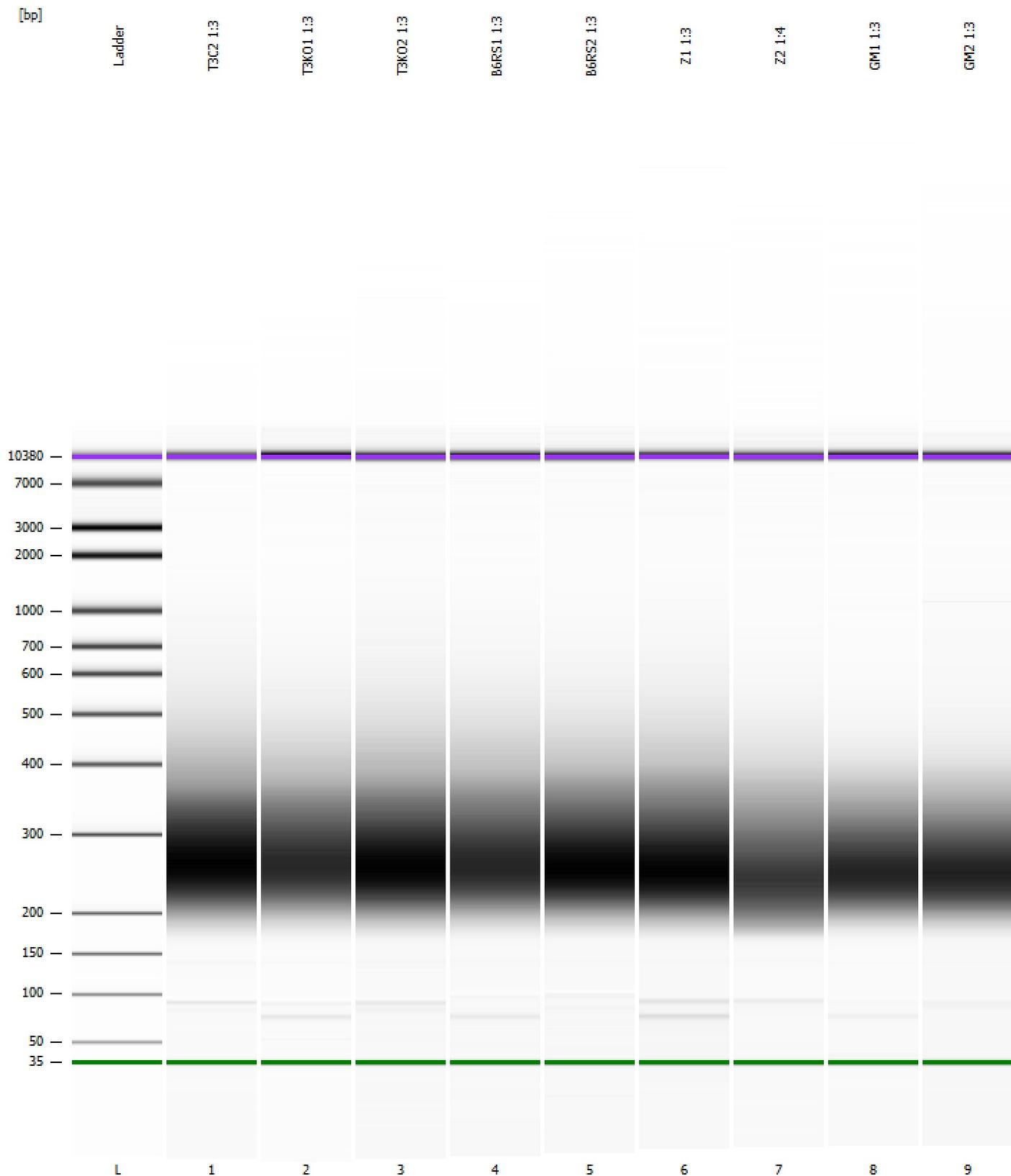
Assay Class:	High Sensitivity DNA Assay	Created:	3/17/2023 5:46:08 PM
Data Path:	C:\...\Desktop\2023-03-17\QC1434_Namekawa_Otsuka_samples14-22.xad	Modified:	3/17/2023 7:11:15 PM

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		3/17/2023 6:26:34 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-03-17\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-17_002.xad)		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/17/2023 5:46:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB