Assay Class:　　　High Sensitivity DNA Assay　　　　　　　　　　　　　　Created:　11/13/2023 3:24:09 PM
Data Path:　　　　C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad　　　Modified:　11/13/2023 4:15:53 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:

AS101

AS102

AS103

AS104

AS105

AS106

AS107

AS108

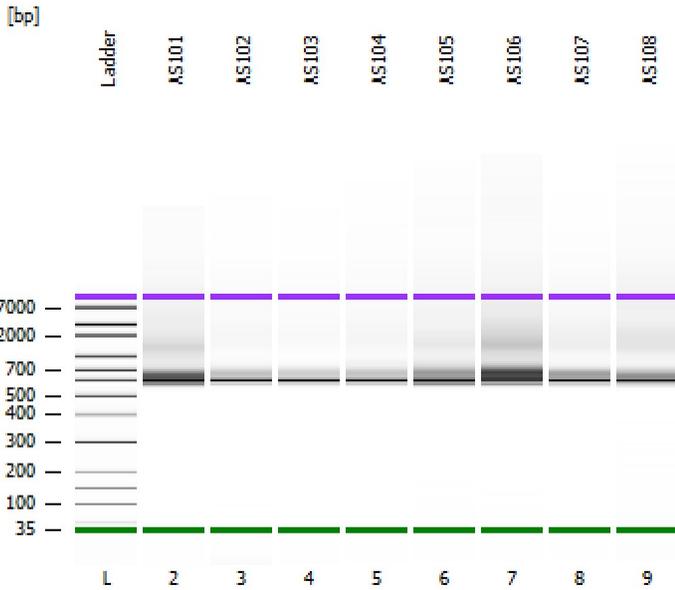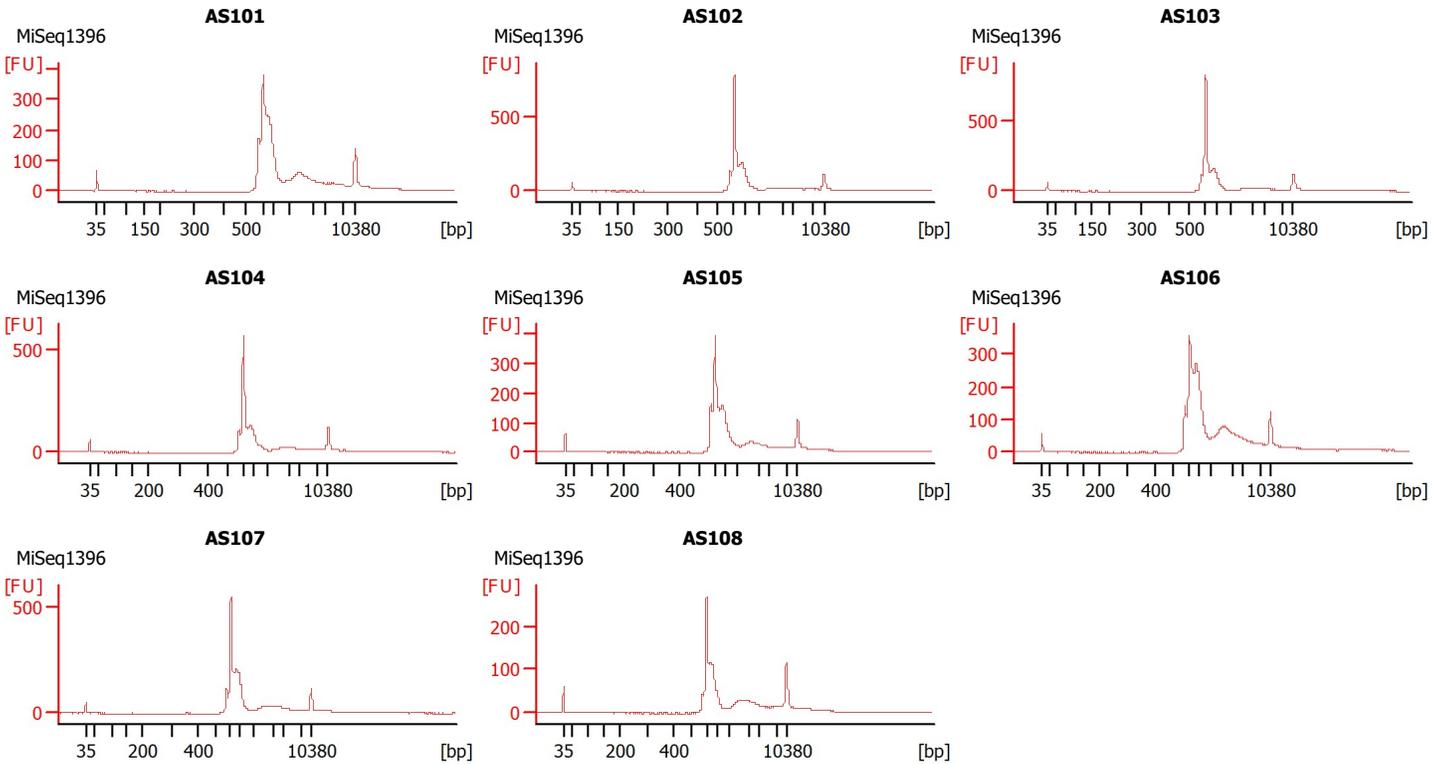Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Statu s	Observation	Result Label	Result Color
AS101	MiSeq1396	☐	✔			
AS102	MiSeq1396	☐	✔			
AS103	MiSeq1396	☐	✔			
AS104	MiSeq1396	☐	✔			
AS105	MiSeq1396	☐	✔			
AS106	MiSeq1396	☐	✔			
AS107	MiSeq1396	☐	✔			
AS108	MiSeq1396	☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 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:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad

Created: 11/13/2023 3:24:09 PM
Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary
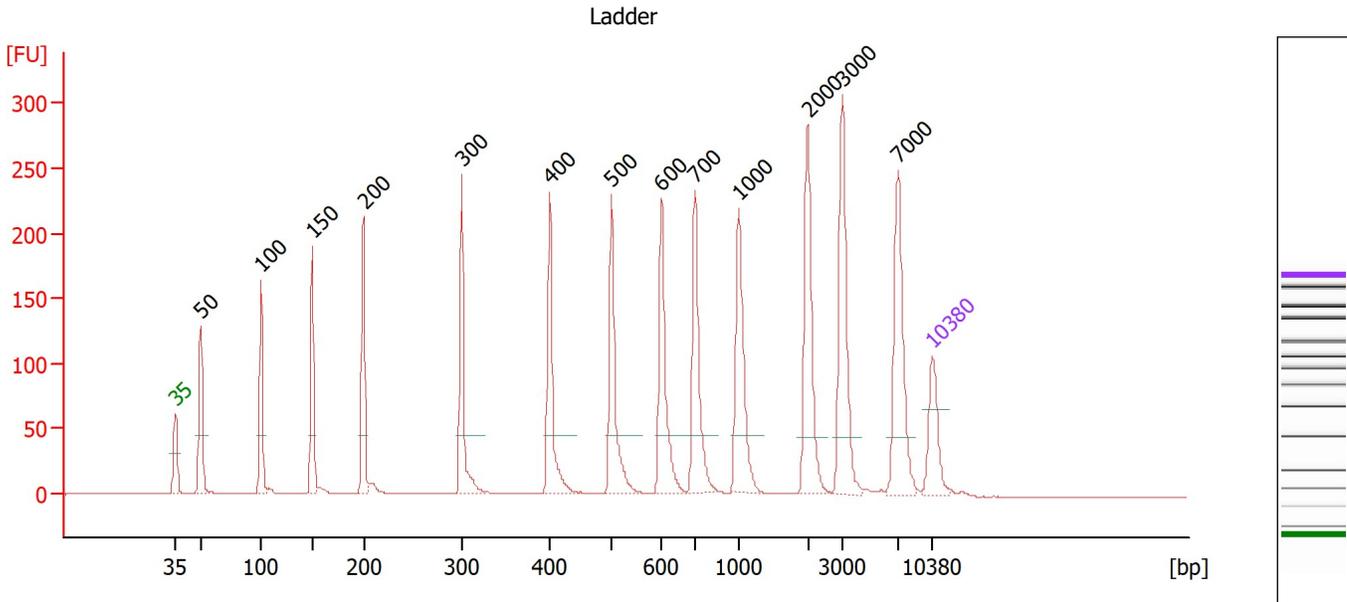
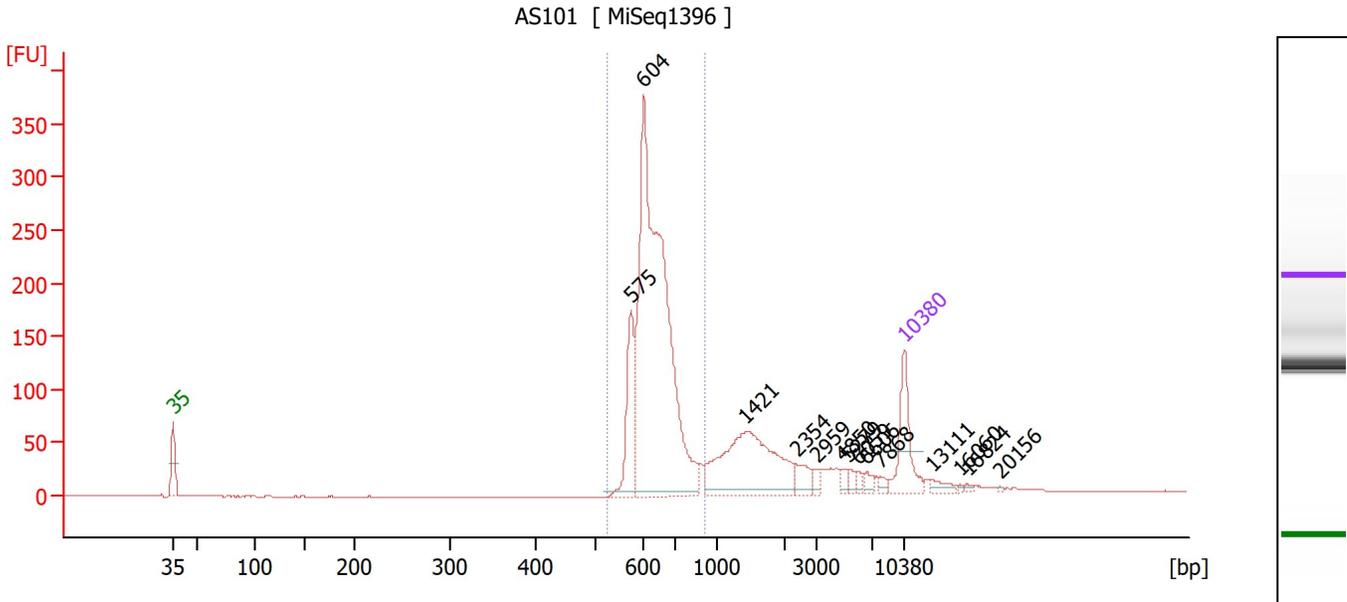**Overall Results for Ladder**

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

Electropherogram Summary Continued ...

AS101 [MiSeq1396]

Overall Results for sample 2 : AS101

Number of peaks found:	14	Corr. Area 1:	1,292.1
Noise:	0.2		

Peak table for sample 2 : AS101

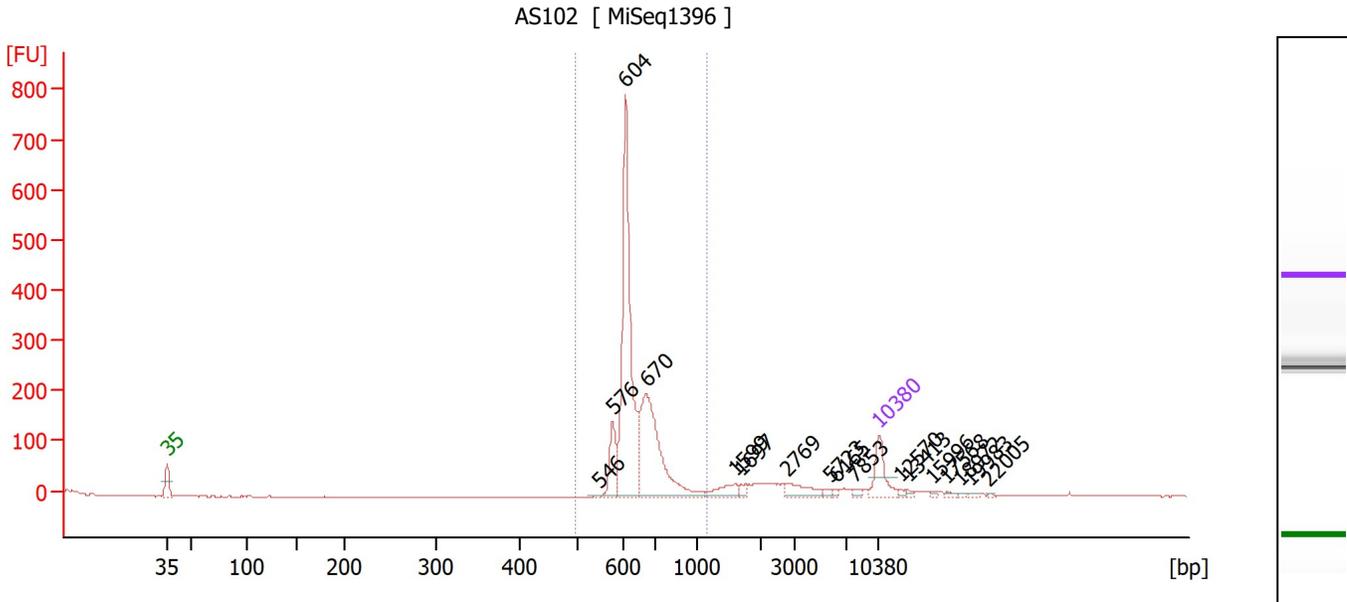| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		575	125.94	331.9	
3		604	817.15	2,051.2	
4		1,421	234.52	250.0	
5		2,354	25.20	16.2	
6		2,959	10.06	5.2	
7		4,850	9.19	2.9	
8		5,279	9.26	2.7	
9		6,059	7.27	1.8	
10		6,606	10.55	2.4	
11		7,868	7.14	1.4	
12	▶	10,380	75.00	10.9	Upper Marker
13		13,111	0.00	0.0	
14		16,060	0.00	0.0	
15		16,824	0.00	0.0	
16		20,156	0.00	0.0	

Region table for sample 2 : AS101

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
527	913	1,292.1	69	641	9.7	932.25	2,219.7	■

Electropherogram Summary Continued ...

AS102 [MiSeq1396]

Overall Results for sample 3 :   AS102

Number of peaks found:	17	Corr. Area 1:	1,407.4
Noise:	0.4		

Peak table for sample 3 :   AS102

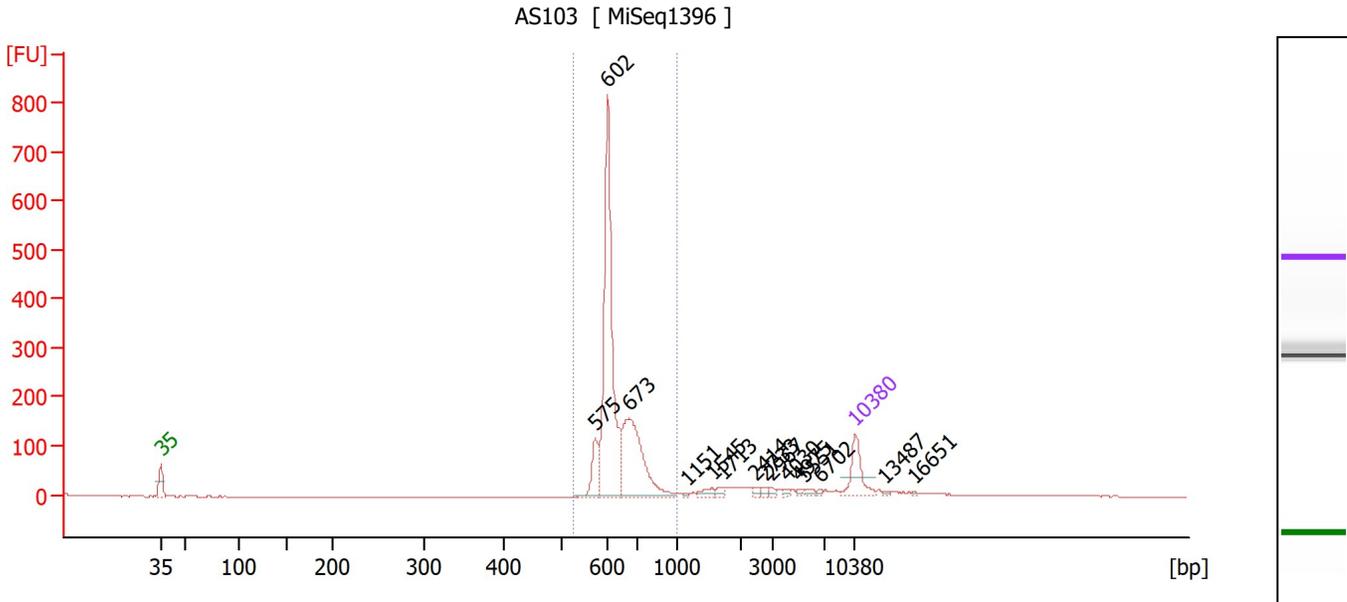| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1 ◄	35	125.00	5,411.3	Lower Marker
2	546	3.94	10.9	
3	576	97.47	256.5	
4	604	637.13	1,597.2	
5	670	429.80	971.6	
6	1,599	41.21	39.0	
7	1,697	11.09	9.9	
8	2,769	46.01	25.2	
9	5,723	8.28	2.2	
10	6,165	6.29	1.5	
11	7,853	8.31	1.6	
12 ▶	10,380	75.00	10.9	Upper Marker
13	12,570	0.00	0.0	
14	13,413	0.00	0.0	
15	15,996	0.00	0.0	
16	17,568	0.00	0.0	
17	18,972	0.00	0.0	
18	19,983	0.00	0.0	
19	22,005	0.00	0.0	

Region table for sample 3 :   AS102

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
499	1,167	1,407.4	83	643	10.7	1,095.33	2,603.5	■

Assay Class:	High Sensitivity DNA Assay	Created:	11/13/2023 3:24:09 PM
Data Path:	C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad	Modified:	11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS103 [MiSeq1396]

Overall Results for sample 4 :   AS103

Number of peaks found:	15	Corr. Area 1:	1,370.4
Noise:	0.5		

Peak table for sample 4 :   AS103

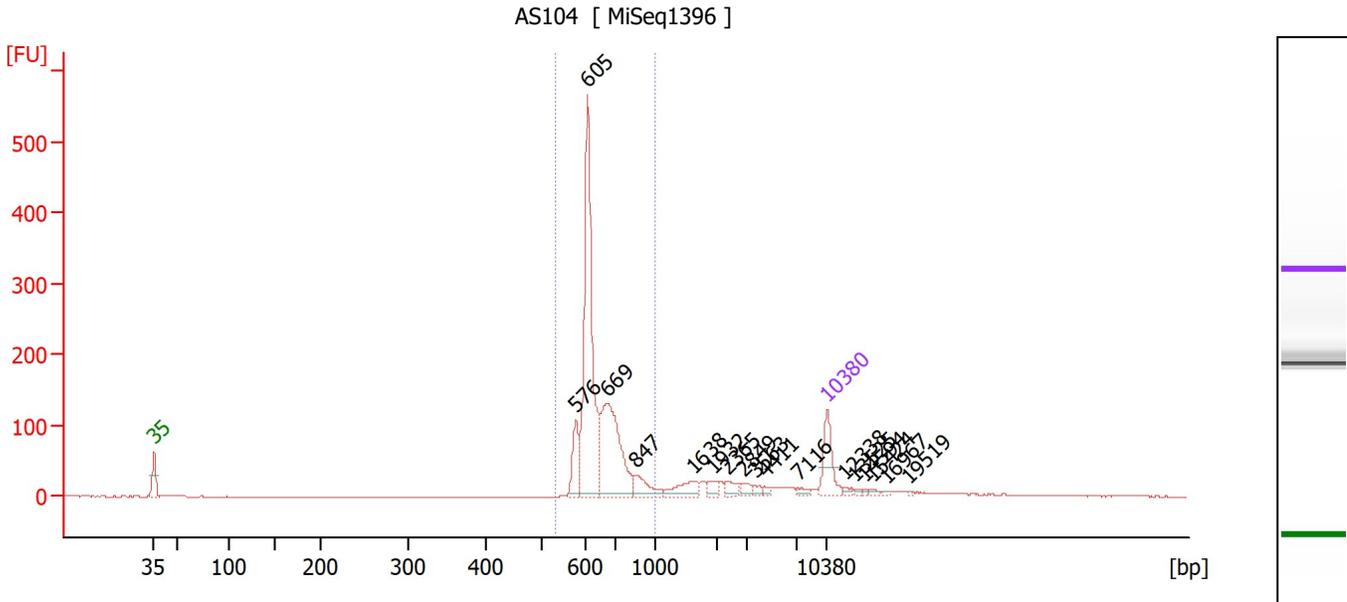| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		575	78.60	207.2	
3		602	615.05	1,548.0	
4		673	318.78	717.8	
5		1,151	3.51	4.6	
6		1,545	15.96	15.6	
7		1,713	10.93	9.7	
8		2,414	8.37	5.3	
9		2,733	8.82	4.9	
10		2,967	6.45	3.3	
11		4,030	5.95	2.2	
12		4,975	5.35	1.6	
13		5,551	8.38	2.3	
14		6,702	4.67	1.1	
15	▶	10,380	75.00	10.9	Upper Marker
16		13,487	0.00	0.0	
17		16,651	0.00	0.0	

Region table for sample 4 :   AS103

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
526	1,000	1,370.4	81	637	9.8	994.38	2,381.1	■

Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS104 [MiSeq1396]

Overall Results for sample 5 :   AS104

Number of peaks found:	17	Corr. Area 1:	1,060.2
Noise:	0.3		

Peak table for sample 5 :   AS104

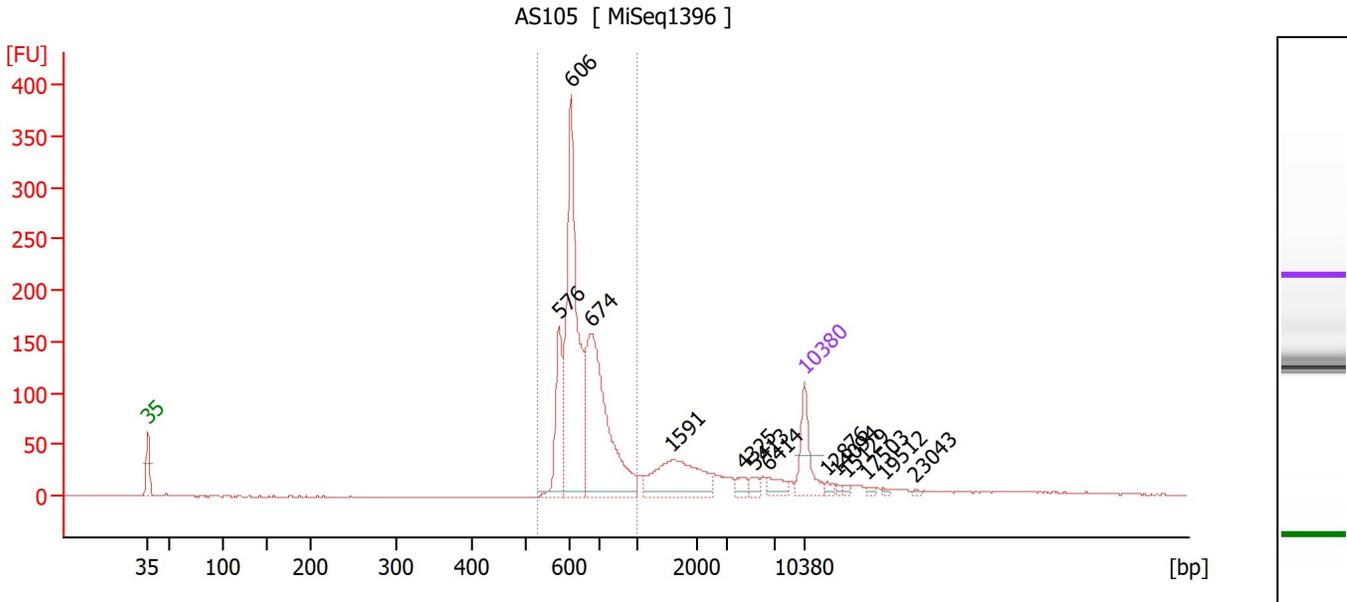| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		576	84.14	221.4	
3		605	515.40	1,290.6	
4		669	301.02	681.4	
5		847	51.64	92.4	
6		1,638	42.55	39.4	
7		1,932	18.41	14.4	
8		2,365	20.64	13.2	
9		2,849	14.96	8.0	
10		3,563	9.77	4.2	
11		4,411	7.66	2.6	
12		7,116	10.12	2.2	
13	▶	10,380	75.00	10.9	Upper Marker
14		12,338	0.00	0.0	
15		13,525	0.00	0.0	
16		14,594	0.00	0.0	
17		15,424	0.00	0.0	
18		16,967	0.00	0.0	
19		19,519	0.00	0.0	

Region table for sample 5 :   AS104

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
530	1,000	1,060.2	75	649	11.9	935.38	2,207.5	■

Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS105 [MiSeq1396]

Overall Results for sample 6 :   AS105

Number of peaks found:	13	Corr. Area 1:	1,159.0
Noise:	0.4		

Peak table for sample 6 :   AS105

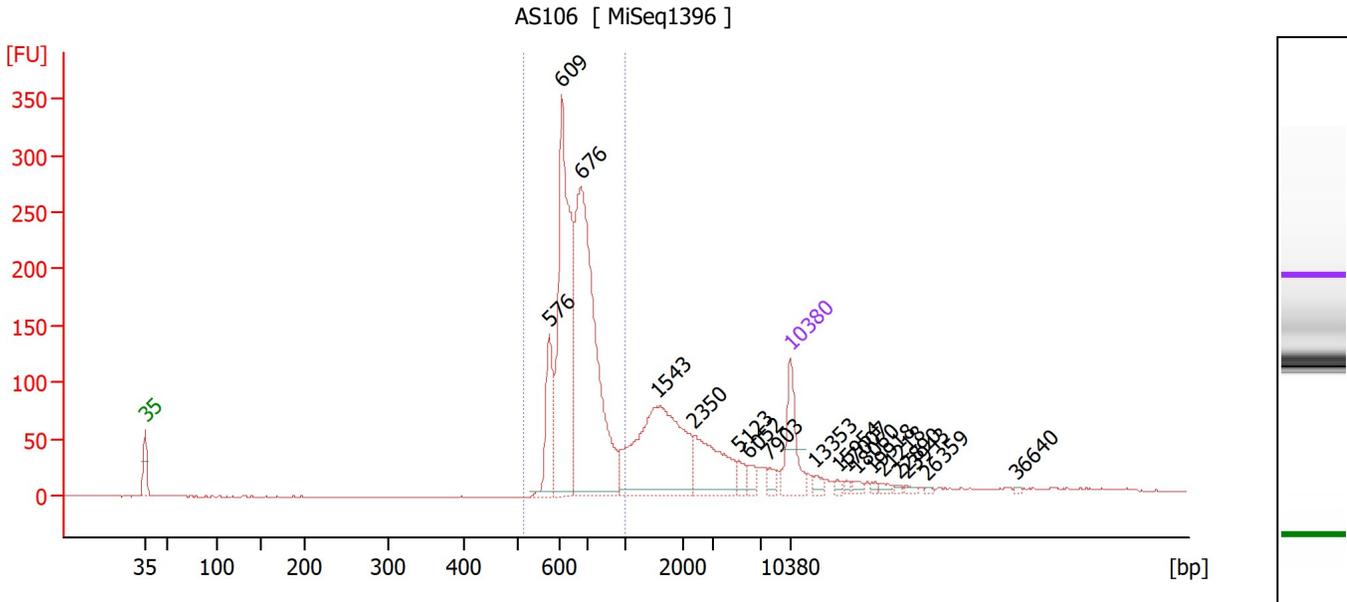| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄ 35	125.00	5,411.3	Lower Marker
2	576	134.22	353.1	
3	606	479.33	1,198.0	
4	674	418.49	940.9	
5	1,591	151.53	144.3	
6	4,325	16.51	5.8	
7	5,413	13.40	3.8	
8	6,414	25.75	6.1	
9	▶ 10,380	75.00	10.9	Upper Marker
10	12,876	0.00	0.0	
11	14,094	0.00	0.0	
12	15,129	0.00	0.0	
13	17,503	0.00	0.0	
14	19,512	0.00	0.0	
15	23,043	0.00	0.0	

Region table for sample 6 :   AS105

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
526	1,000	1,159.0	71	658	13.0	1,010.19	2,360.4	■

Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS106 [MiSeq1396]

Overall Results for sample 7 :   AS106

Number of peaks found:	18	Corr. Area 1:	1,491.0
Noise:	0.3		

Peak table for sample 7 :   AS106

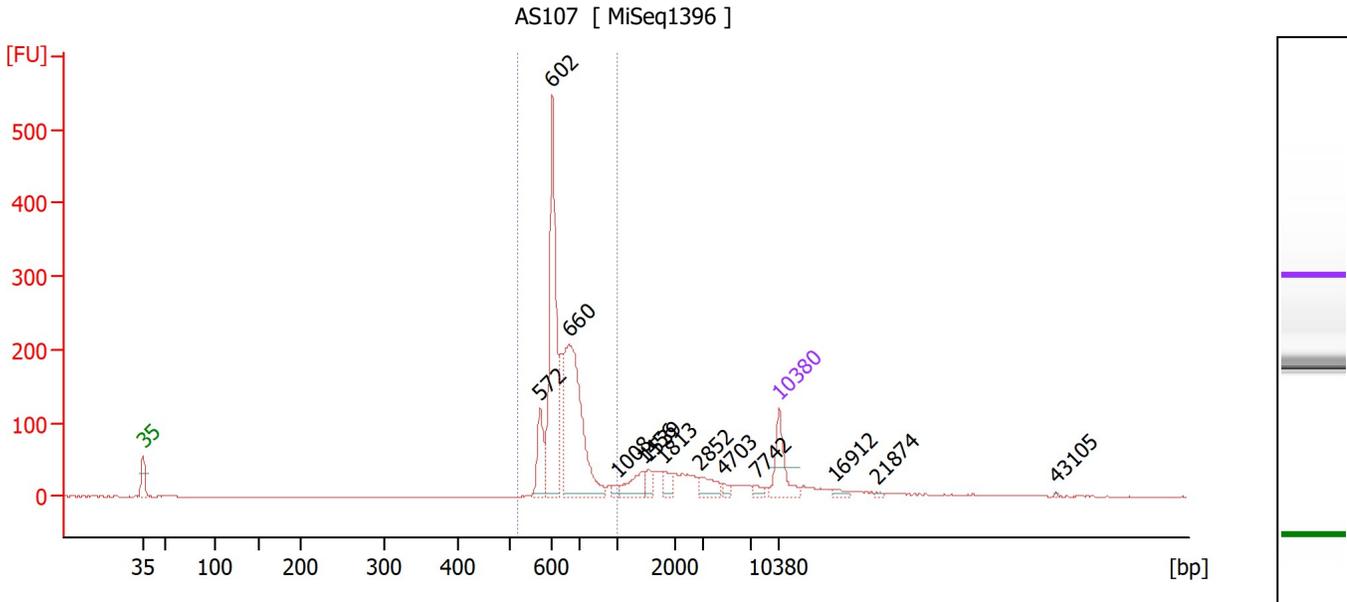| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		576	110.00	289.3	
3		609	443.42	1,103.0	
4		676	613.48	1,374.8	
5		1,543	312.27	306.5	
6		2,350	115.16	74.3	
7		5,123	17.75	5.3	
8		6,052	14.46	3.6	
9		7,903	13.82	2.7	
10	▶	10,380	75.00	10.9	Upper Marker
11		13,353	0.00	0.0	
12		15,954	0.00	0.0	
13		17,007	0.00	0.0	
14		18,060	0.00	0.0	
15		19,918	0.00	0.0	
16		21,218	0.00	0.0	
17		22,890	0.00	0.0	
18		23,943	0.00	0.0	
19		26,359	0.00	0.0	
20		36,640	0.00	0.0	

Region table for sample 7 :   AS106

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
517	1,000	1,491.0	63	677	13.0	1,159.50	2,630.5	■

Assay Class: High Sensitivity DNA Assay   Created: 11/13/2023 3:24:09 PM
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad   Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS107 [MiSeq1396]

Overall Results for sample 8 :   AS107

Number of peaks found:	13	Corr. Area 1:	1,216.2
Noise:	0.4		

Peak table for sample 8 :   AS107

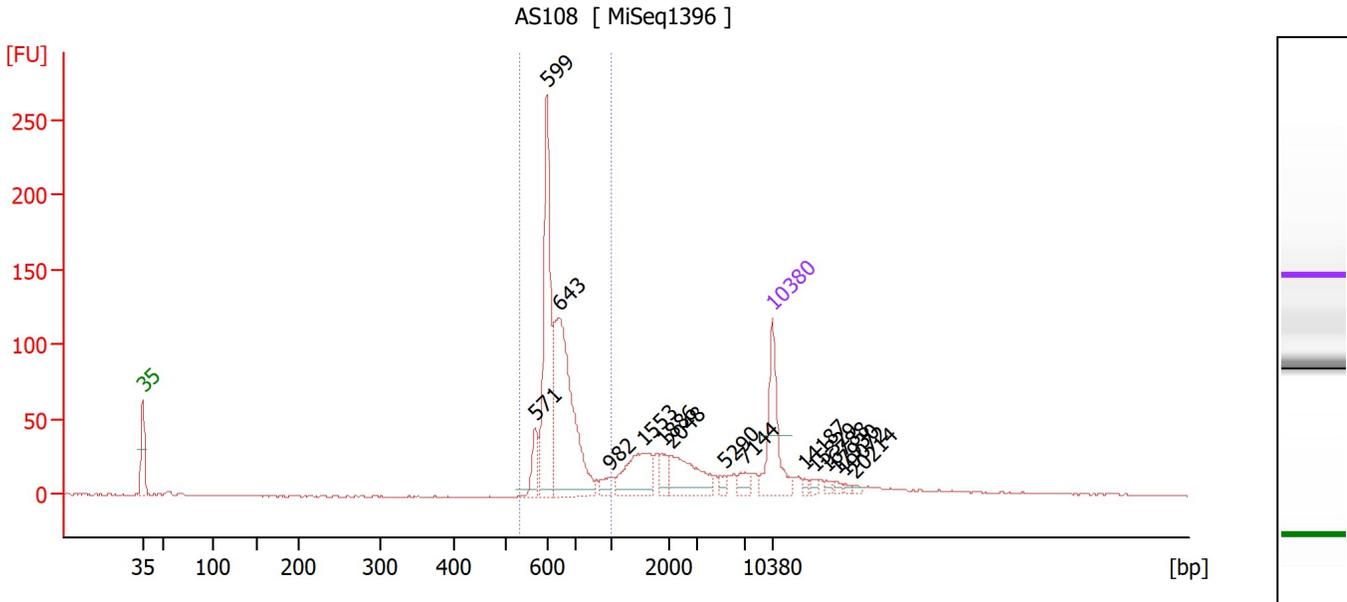| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		572	84.41	223.6	
3		602	389.72	981.6	
4		660	428.17	982.9	
5		1,008	10.68	16.1	
6		1,456	45.28	47.1	
7		1,539	22.70	22.3	
8		1,813	22.13	18.5	
9		2,852	36.92	19.6	
10		4,703	10.39	3.3	
11		7,742	10.85	2.1	
12	▶	10,380	75.00	10.9	Upper Marker
13		16,912	0.00	0.0	
14		21,874	0.00	0.0	
15		43,105	0.00	0.0	

Region table for sample 8 :   AS107

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
519	1,000	1,216.2	71	647	10.6	977.67	2,308.9	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad

Created: 11/13/2023 3:24:09 PM
Modified: 11/13/2023 4:15:53 PM

Electropherogram Summary Continued ...

AS108 [MiSeq1396]

Overall Results for sample 9 :   AS108

Number of peaks found:	15	Corr. Area 1:	618.0
Noise:	0.5		

Peak table for sample 9 :   AS108

| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		571	32.73	86.8	
3		599	205.77	520.1	
4		643	254.27	599.2	
5		982	11.89	18.4	
6		1,553	67.06	65.4	
7		1,886	17.38	14.0	
8		2,048	59.93	44.3	
9		5,290	7.17	2.1	
10		7,144	12.60	2.7	
11	▶	10,380	75.00	10.9	Upper Marker
12		14,187	0.00	0.0	
13		15,329	0.00	0.0	
14		16,788	0.00	0.0	
15		17,930	0.00	0.0	
16		19,072	0.00	0.0	
17		20,214	0.00	0.0	

Region table for sample 9 :   AS108

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
534	1,000	618.0	60	647	11.5	499.07	1,181.2	■

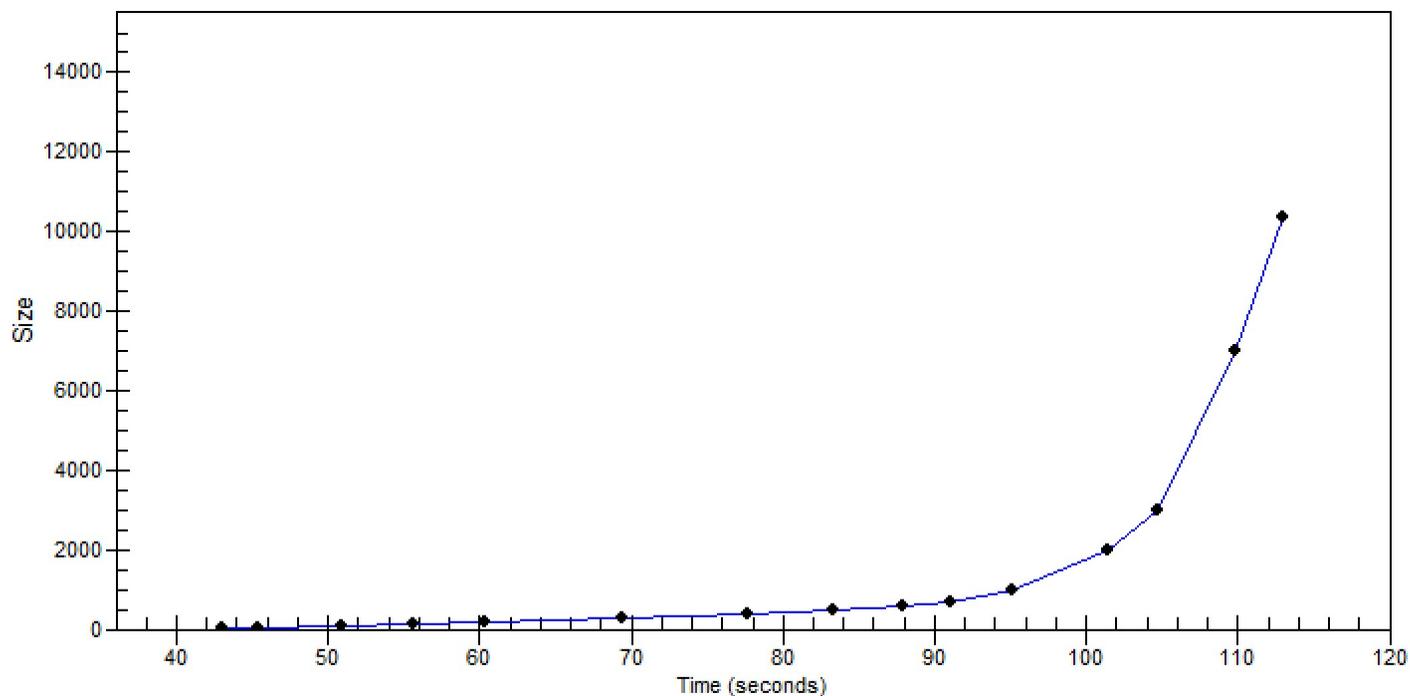| Assay Class:	High Sensitivity DNA Assay	Created:	11/13/2023 3:24:09 PM
Data Path:	C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad	Modified:	11/13/2023 4:15:53 PM

Gel Image
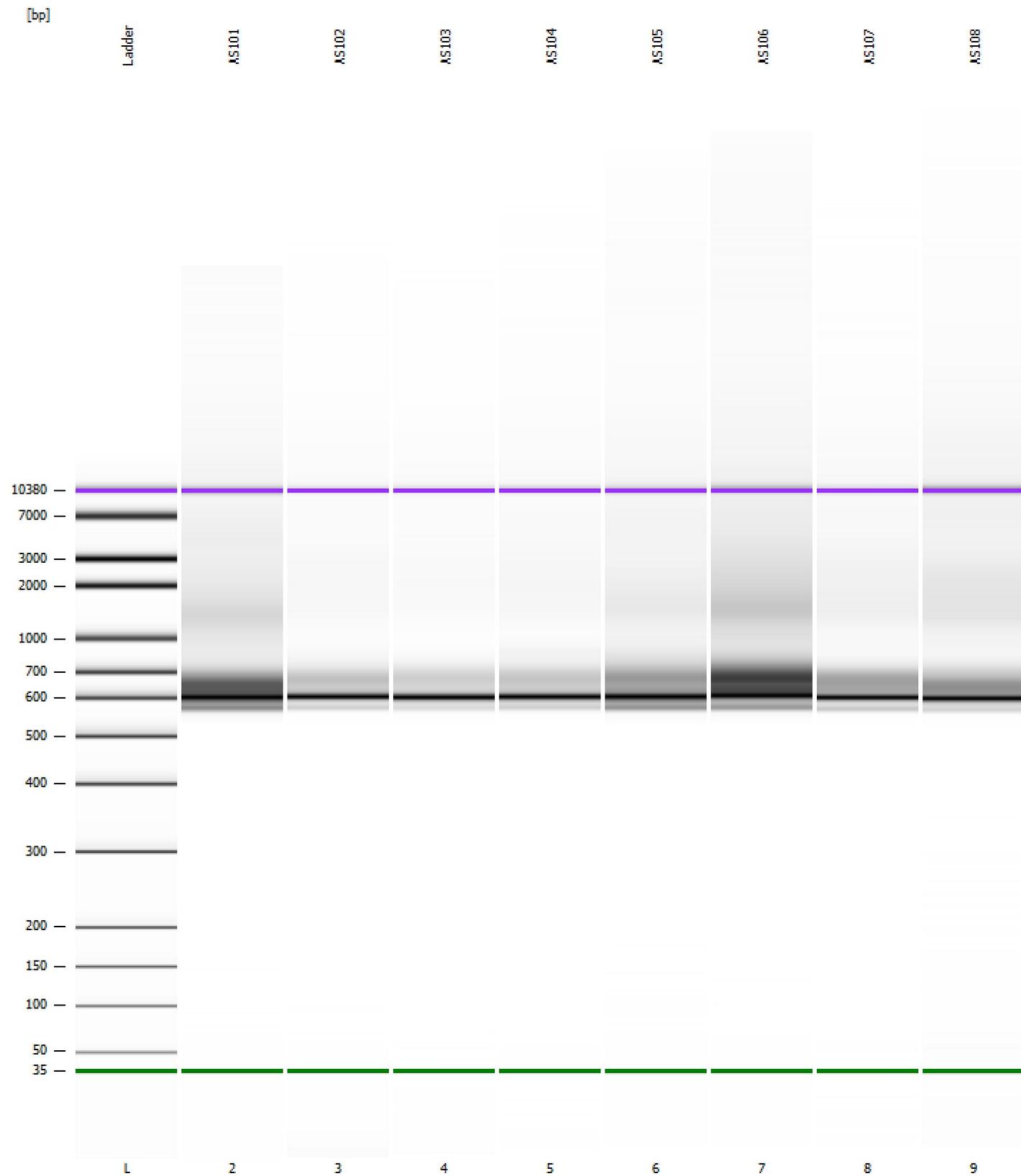
| Assay Class: | High Sensitivity DNA Assay | | Created: | 11/13/2023 3:24:09 PM |
| Data Path: | C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad | | Modified: | 11/13/2023 4:15:53 PM |

Curves

Standard Curve

| Assay Class: | High Sensitivity DNA Assay | Created: | 11/13/2023 3:24:09 PM |
| Data Path: | C:\...\2100 bioanalyzer\2100 expert\data\2023-11-13\MiSeq1396.xad | Modified: | 11/13/2023 4:15:53 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		11/13/2023 4:05:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\21 00 bioanalyzer\210 0 expert\data\202 3-11-13\Bioanal yzer1_High Sensitivity DNA Assay_DE34903 152_2023-11-13 _002.xad)		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB