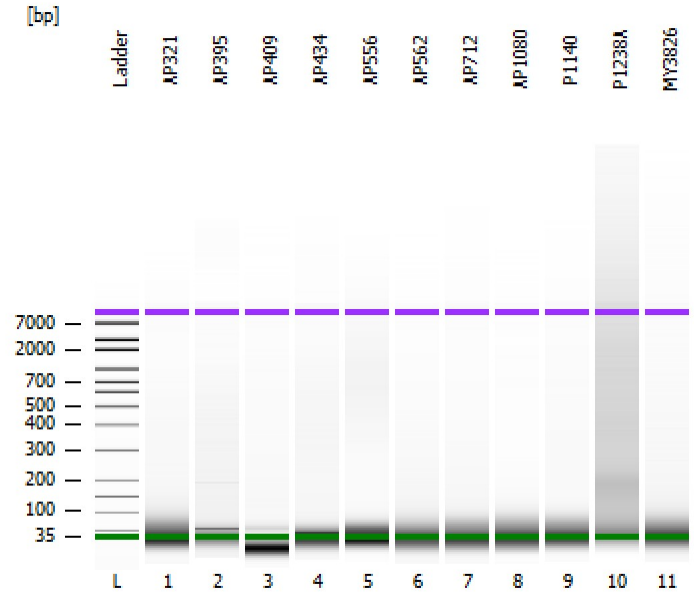
Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

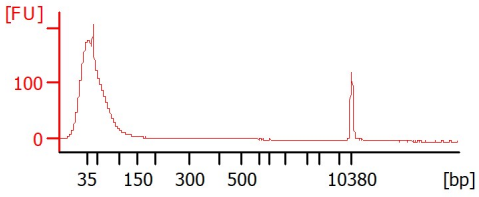
Assay Information:

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

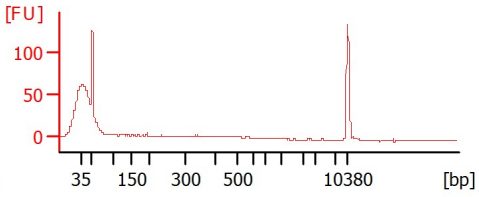
Chip Information:

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

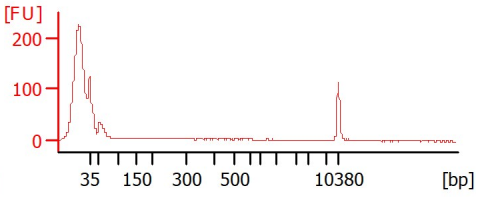
AP321



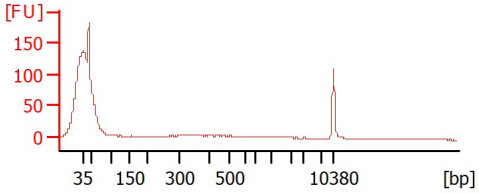
AP395



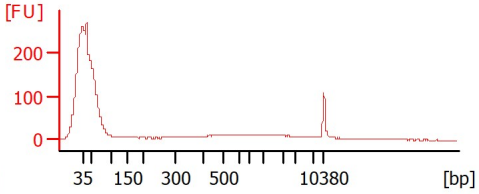
AP409



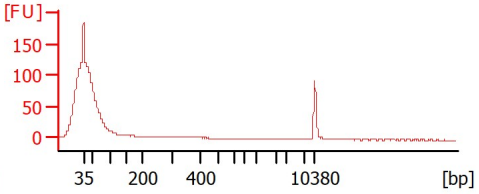
AP434



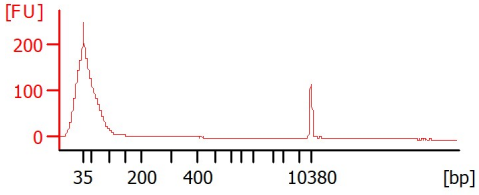
AP556



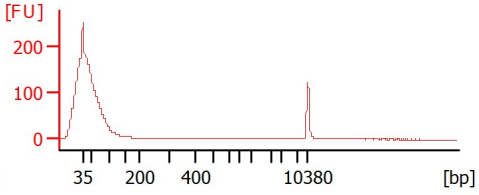
AP562



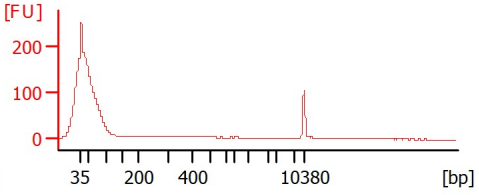
AP712



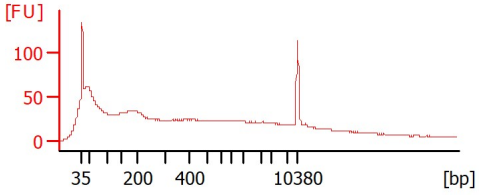
AP1080



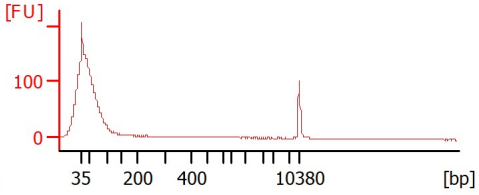
P1140



P1238A



MY3826



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AP321		☐	✔			
AP395		☐	✔			
AP409		☐	✔			
AP434		☐	✔			
AP556		☐	✔			
AP562		☐	✔			
AP712		☐	✔			
AP1080		☐	✔			
P1140		☐	✔			
P1238A		☐	✔			
MY3826		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 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

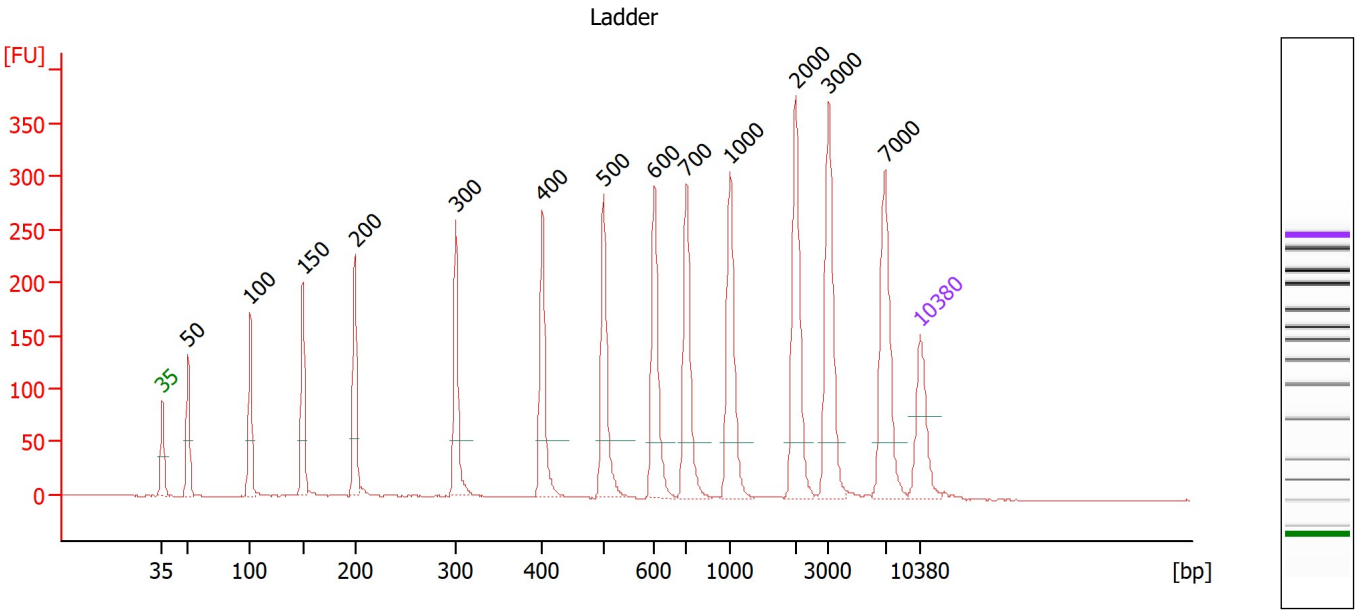
Ladder

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_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

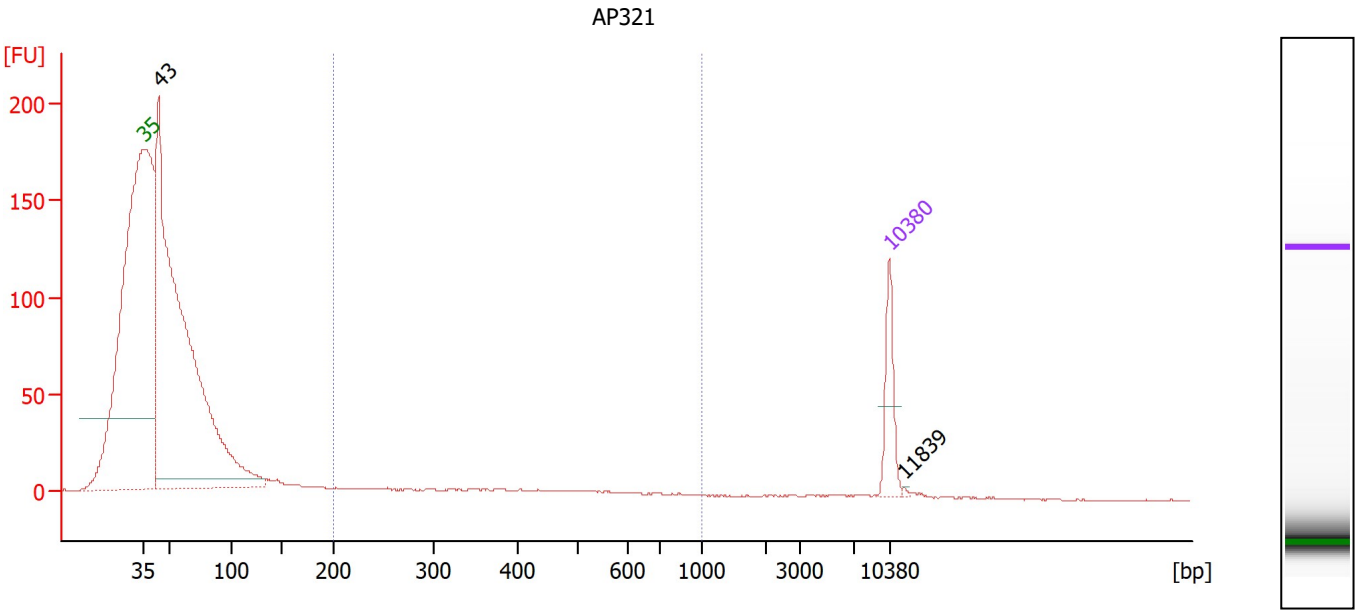
Peak table for Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AP321

Number of peaks found:	2	Corr. Area 1:	92.7
Noise:	0.3		

Peak table for sample 1 : AP321

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		43	2,351.47	82,079.3	
3	▶	10,380	75.00	10.9	Upper Marker
4		11,839	0.00	0.0	

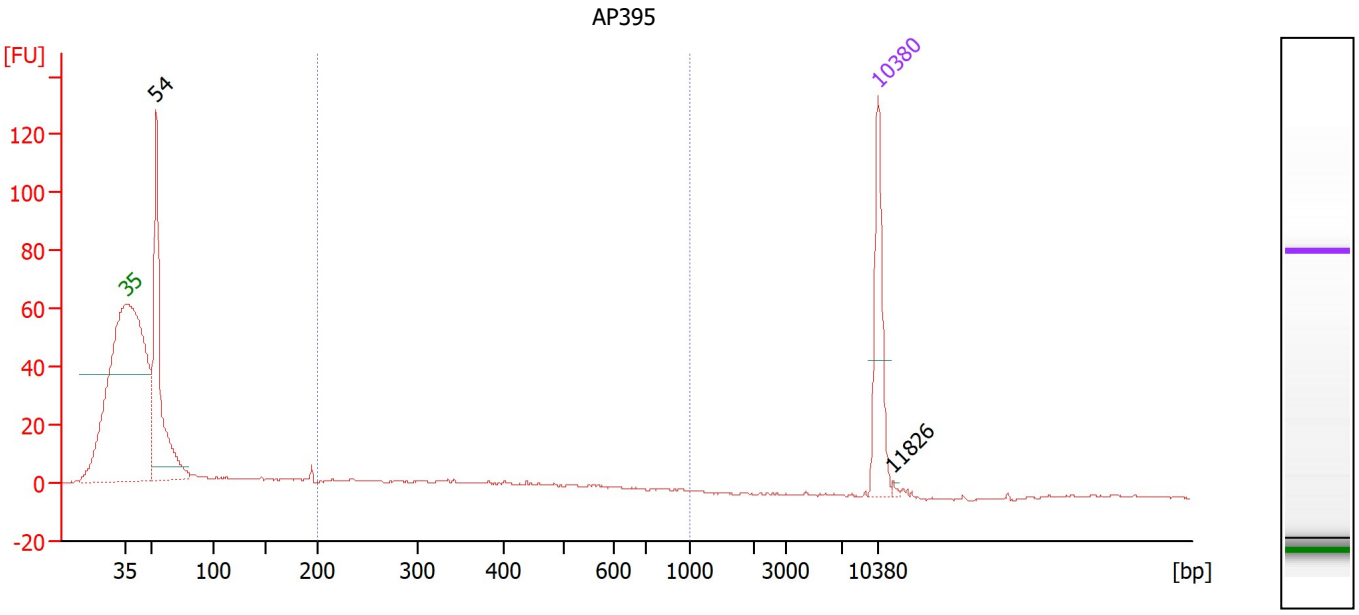
Region table for sample 1 : AP321

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	92.7	6	407	39.9	109.01	494.2	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AP395

Number of peaks found:	2	Corr. Area 1:	69.1
Noise:	0.3		

Peak table for sample 2 : AP395

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		54	315.45	8,907.4	
3	▶	10,380	75.00	10.9	Upper Marker
4		11,826	0.00	0.0	

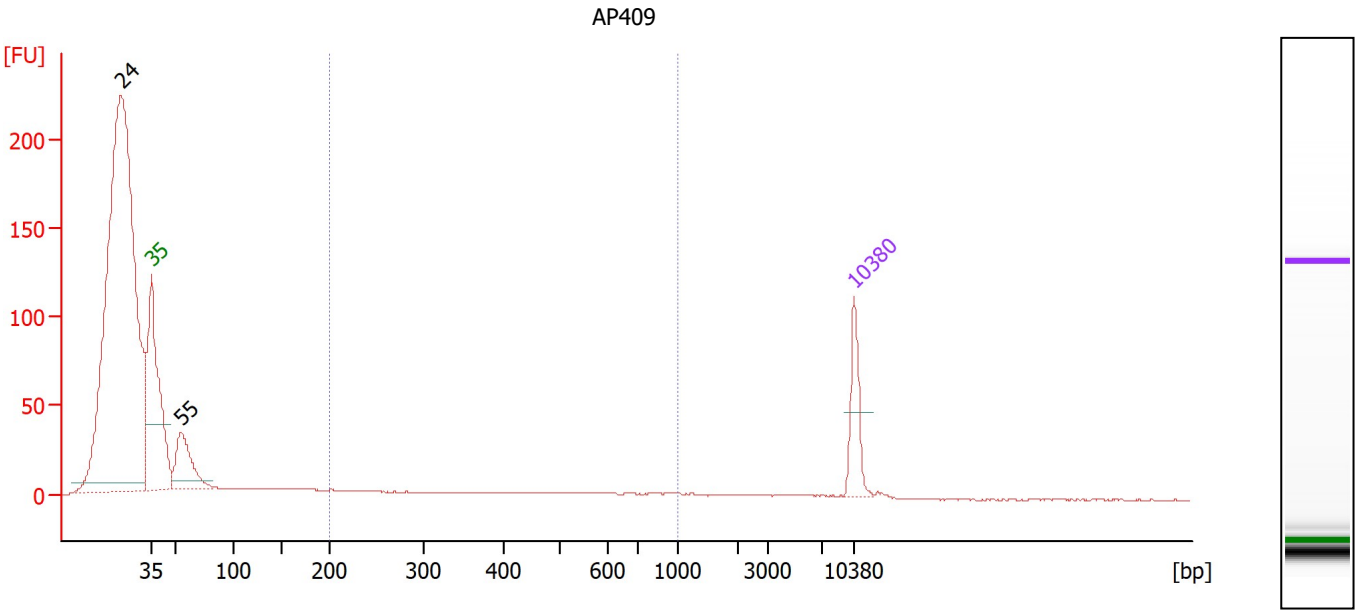
Region table for sample 2 : AP395

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	69.1	19	378	36.6	72.66	342.1	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AP409

Number of peaks found:	2	Corr. Area 1:	88.3
Noise:	0.2		

Peak table for sample 3 : AP409

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		24	0.00	0.0	
2	◀	35	125.00	5,411.3	Lower Marker
3		55	203.07	5,600.2	
4	▶	10,380	75.00	10.9	Upper Marker

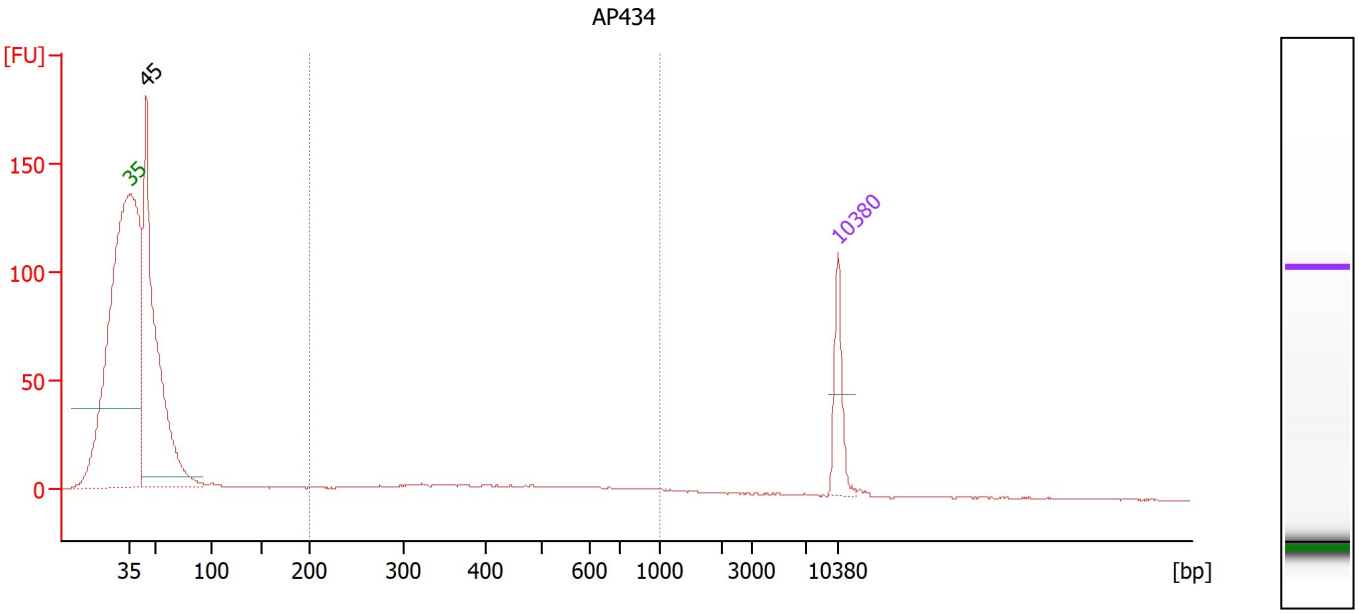
Region table for sample 3 : AP409

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	88.3	4	443	44.8	103.45	460.7	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AP434

Number of peaks found:	1	Corr. Area 1:	124.4
Noise:	0.2		

Peak table for sample 4 : AP434

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	1,067.11	36,062.9	
3	10,380	75.00	10.9	Upper Marker

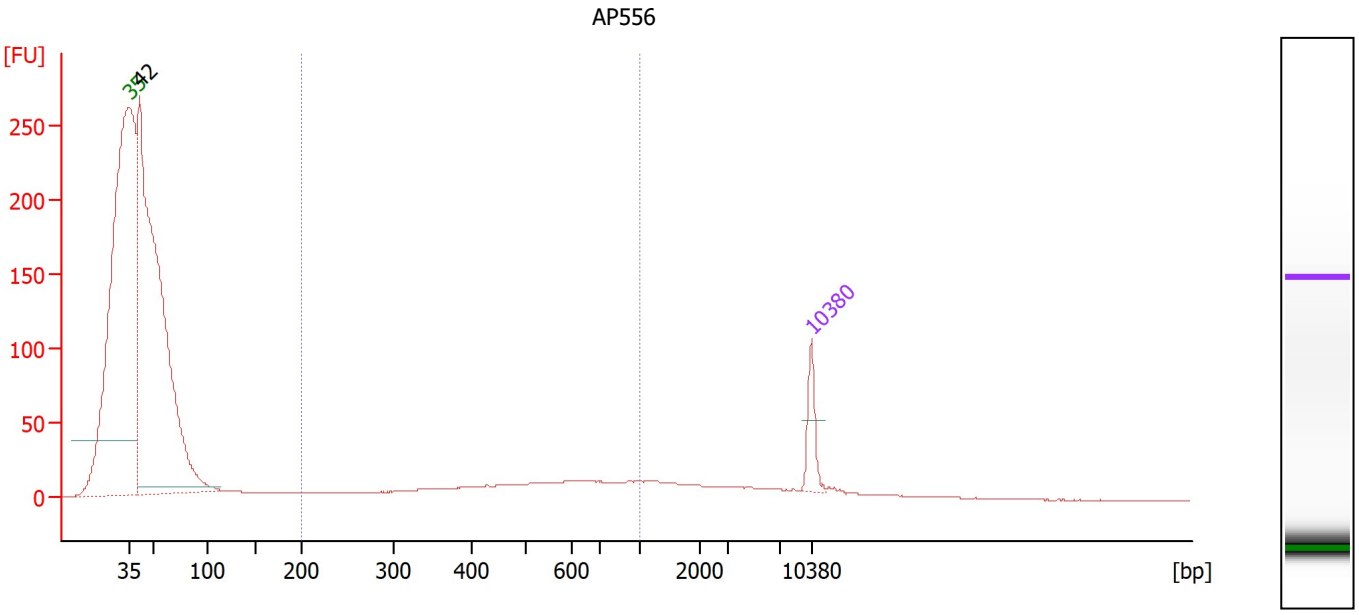
Region table for sample 4 : AP434

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	124.4	15	461	39.5	151.54	613.3	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AP556

Number of peaks found:	1	Corr. Area 1:	320.5
Noise:	0.2		

Peak table for sample 5 : AP556

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	3,369.09	122,101.3	
3	10,380	75.00	10.9	Upper Marker

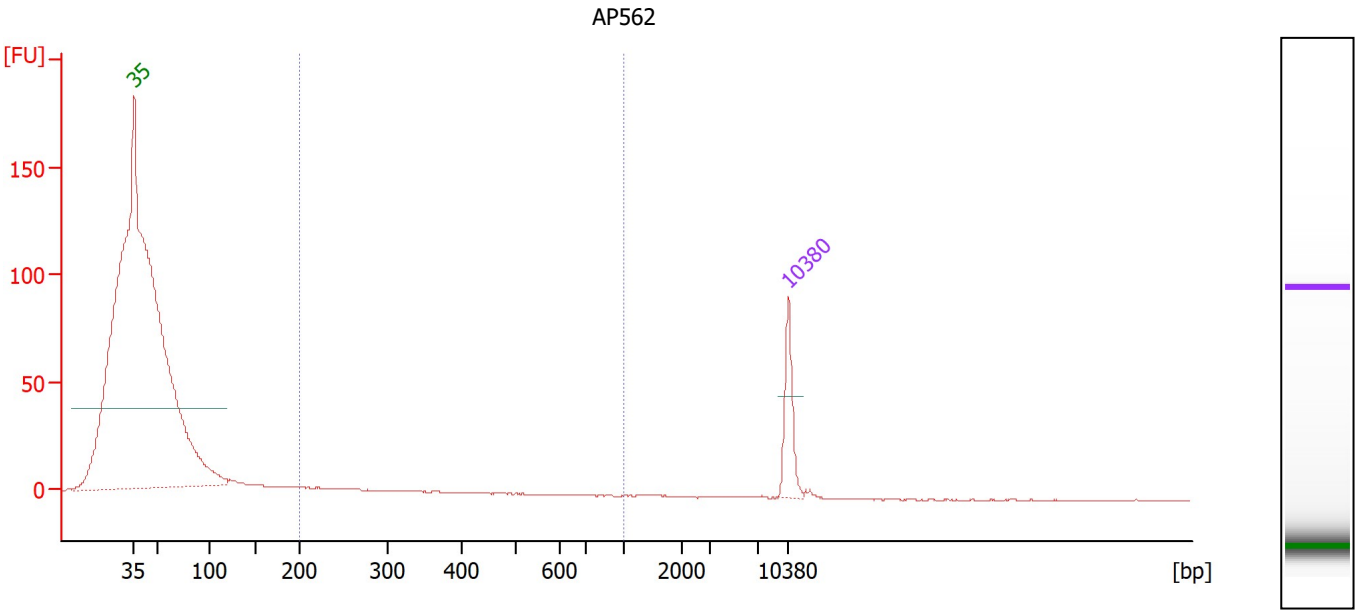
Region table for sample 5 : AP556

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	320.5	14	526	37.2	430.11	1,541.9	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AP562

Number of peaks found:	0	Corr. Area 1:	21.2
Noise:	0.3		

Peak table for sample 6 : AP562

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

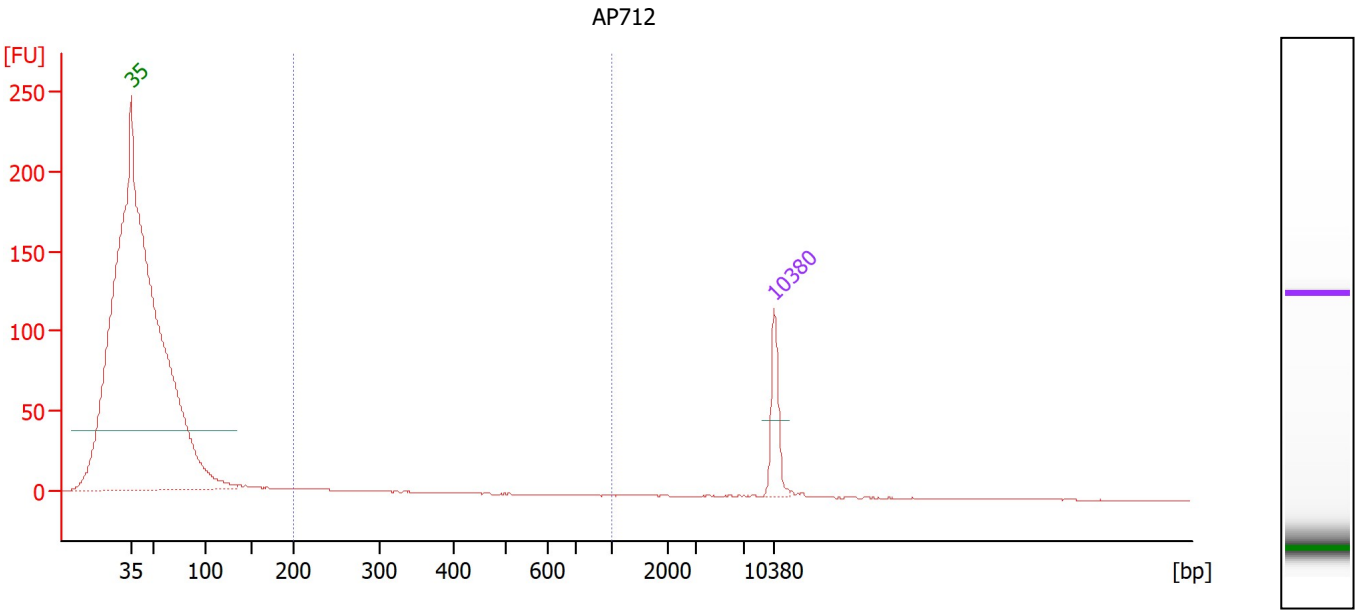
Region table for sample 6 : AP562

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	21.2	35	262	18.8	34.44	205.4	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AP712

Number of peaks found:	0	Corr. Area 1:	36.6
Noise:	0.2		

Peak table for sample 7 : AP712

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

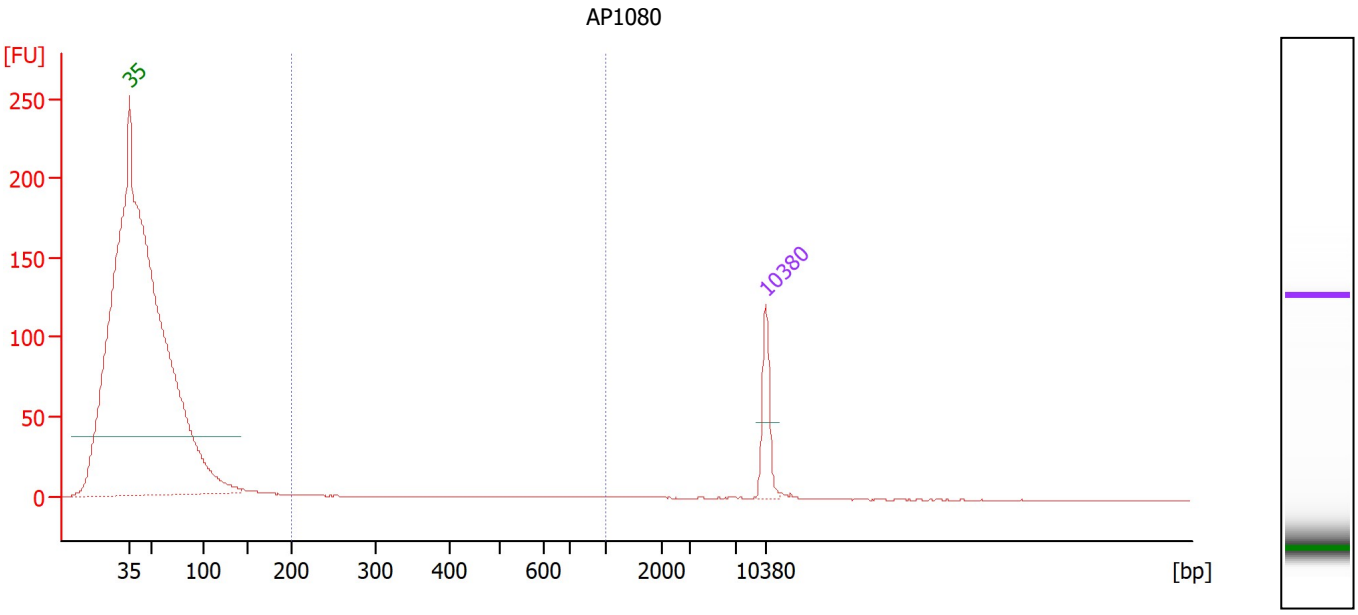
Region table for sample 7 : AP712

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	36.6	45	312	35.1	45.37	246.9	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AP1080

Number of peaks found:	0	Corr. Area 1:	26.9
Noise:	0.2		

Peak table for sample 8 : AP1080

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

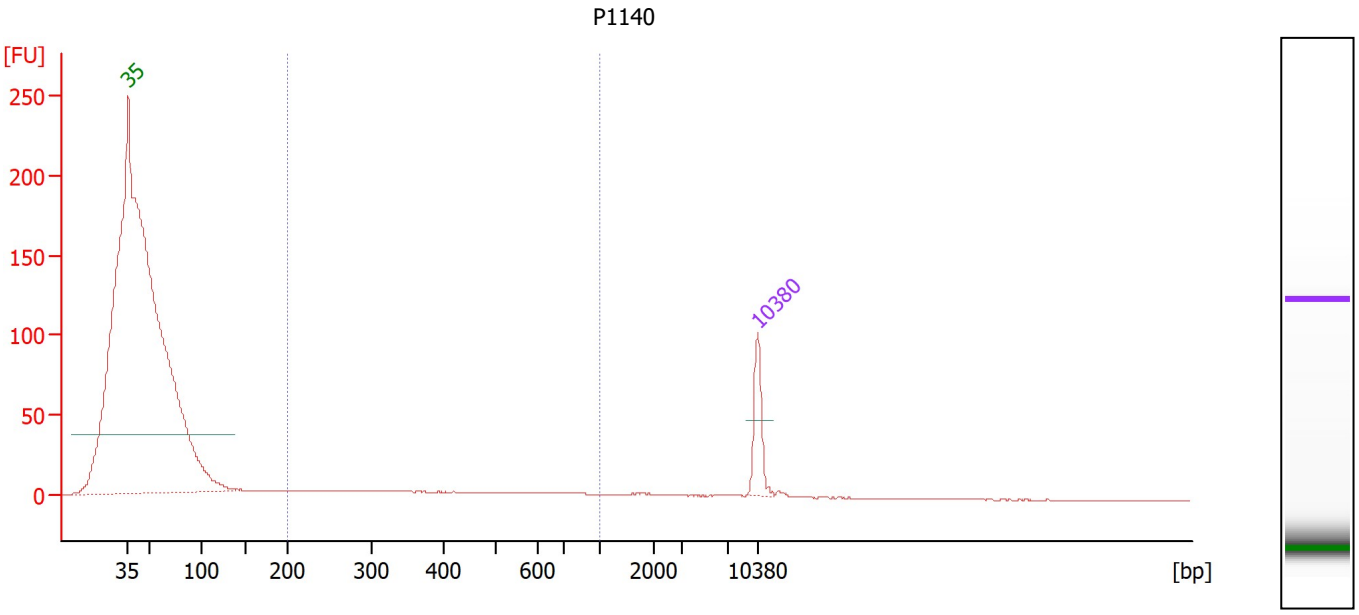
Region table for sample 8 : AP1080

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	26.9	38	472	47.7	29.85	135.9	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : P1140

Number of peaks found:	0	Corr. Area 1:	116.7
Noise:	0.2		

Peak table for sample 9 : P1140

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

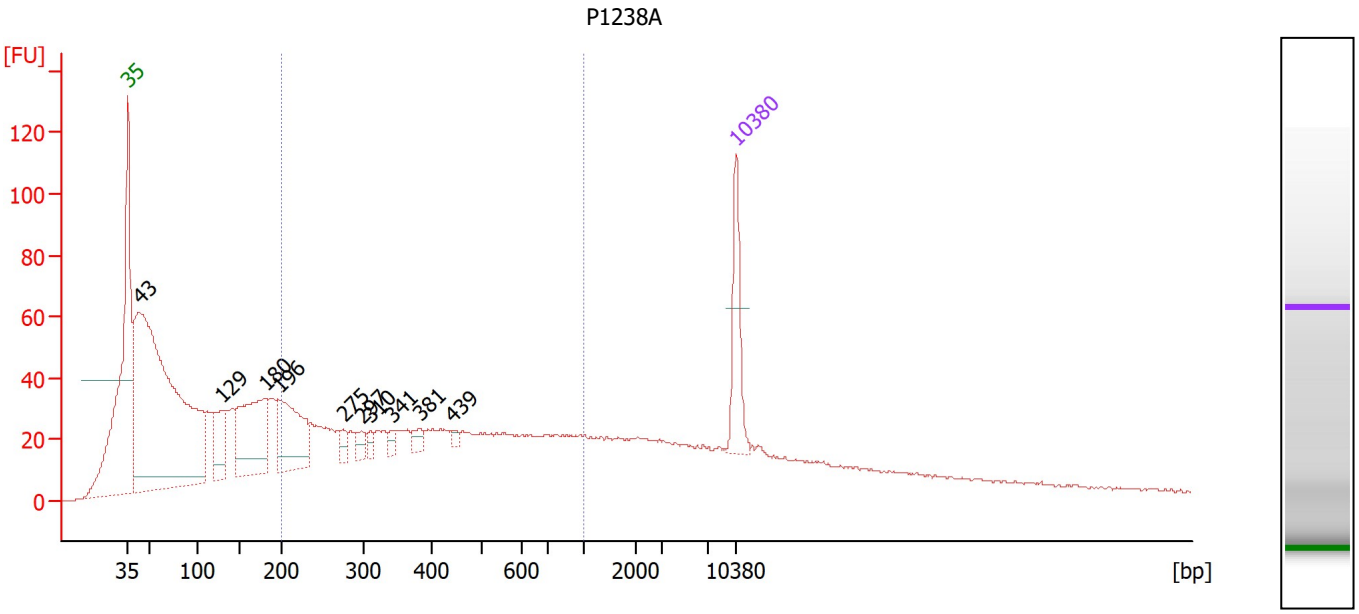
Region table for sample 9 : P1140

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	116.7	63	430	43.3	149.59	663.5	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : P1238A

Number of peaks found:	10	Corr. Area 1:	957.8
Noise:	0.5		

Peak table for sample 10 : P1238A

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	1,288.20	45,378.5	
3	129	95.66	1,126.1	
4	180	237.55	2,003.4	
5	196	186.56	1,439.5	
6	275	17.35	95.6	
7	297	23.51	119.8	
8	310	13.44	65.7	
9	341	11.81	52.5	
10	381	16.79	66.8	
11	439	7.63	26.4	
12	10,380	75.00	10.9	Upper Marker

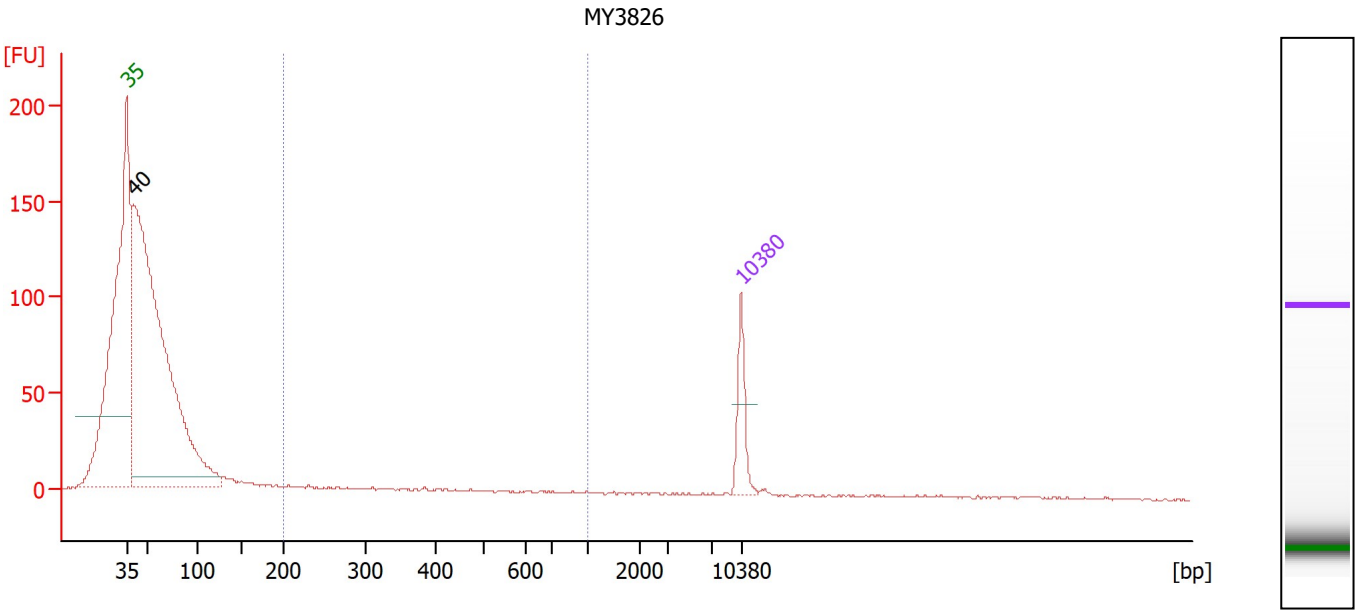
Region table for sample 10 : P1238A

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	957.8	37	435	44.4	1,322.30	5,896.2	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MY3826

Number of peaks found:	1	Corr. Area 1:	44.5
Noise:	0.6		

Peak table for sample 11 : MY3826

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	2,508.54	95,239.4	
3	10,380	75.00	10.9	Upper Marker

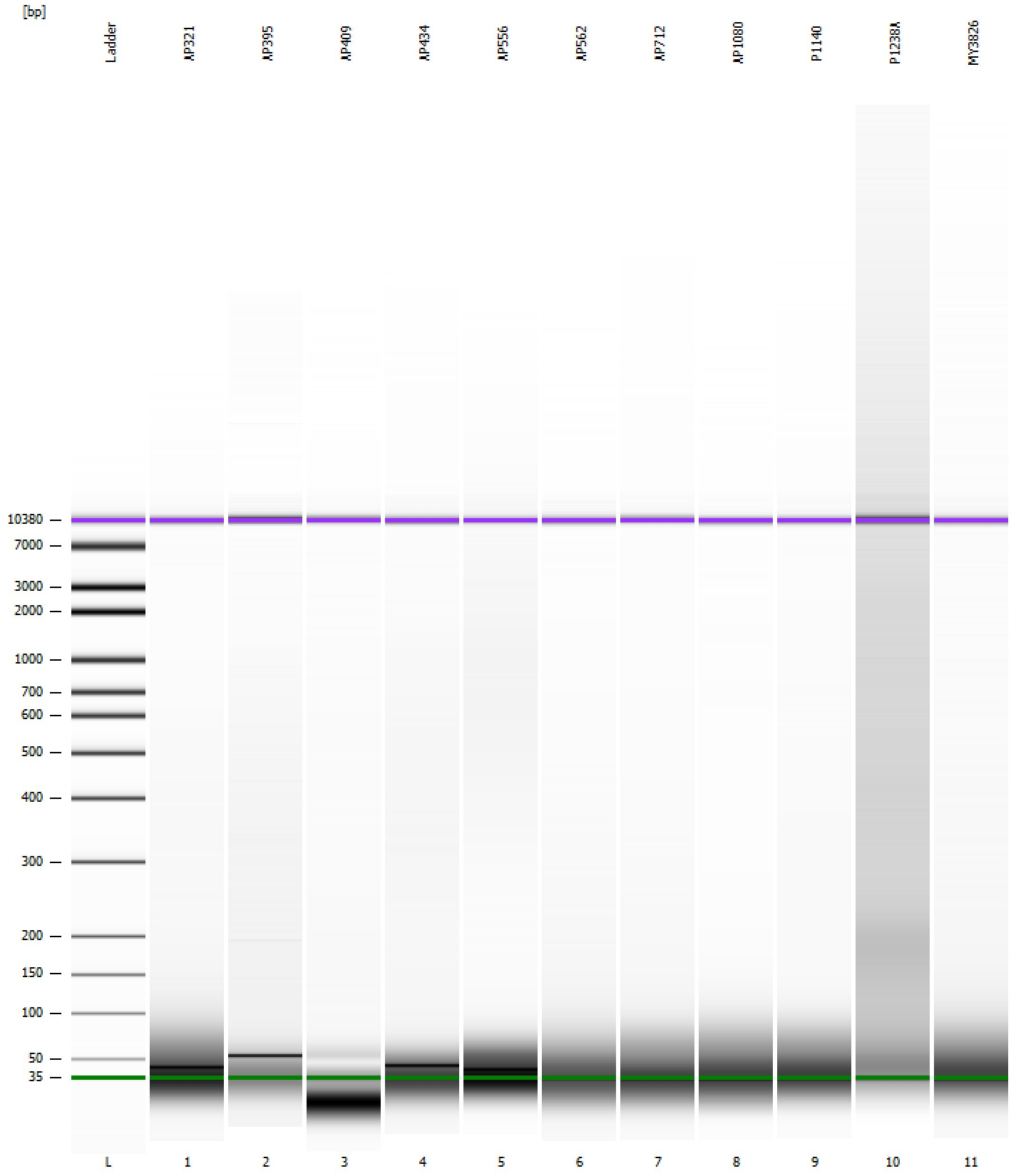
Region table for sample 11 : MY3826

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	44.5	3	375	44.0	60.58	299.5	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad

Created: 7/28/2020 12:47:05 PM
Modified: 7/29/2020 4:15:11 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		7/28/2020 1:28:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Run started on port 1 (File: Z:\XADs\2020-07-28\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-28_005.xad)		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Product Number : G2938C		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Name :		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Vendor : Agilent Technologies		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Serial# : DE34903152		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Firmware : C.01.069		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Cartridge : Electrode		Instrument	Run		7/28/2020 12:47:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB