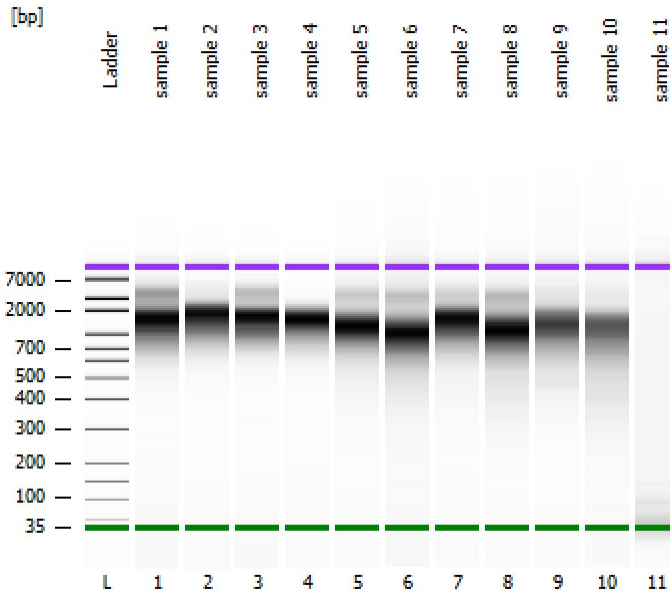


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
Modified: 1/29/2020 11:01:06 AM

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

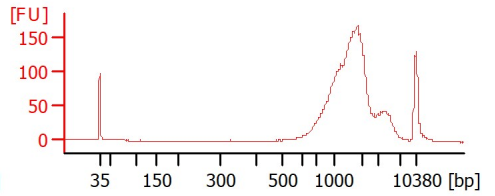
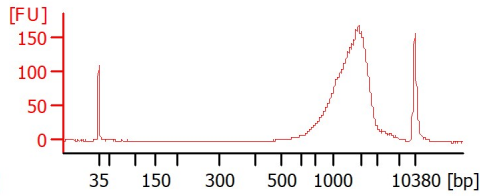
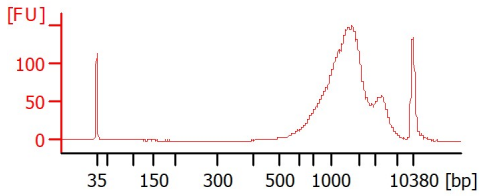
Chip Information:

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

sample 1

sample 2

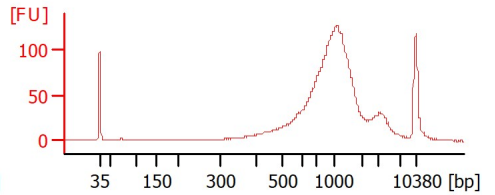
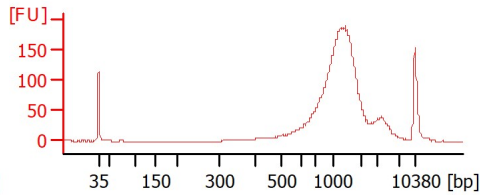
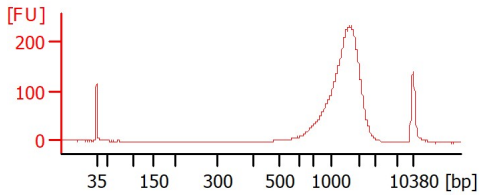
sample 3



sample 4

sample 5

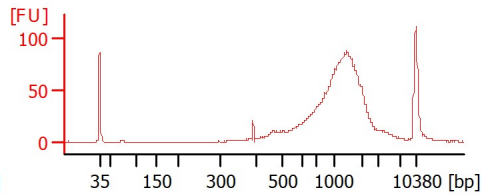
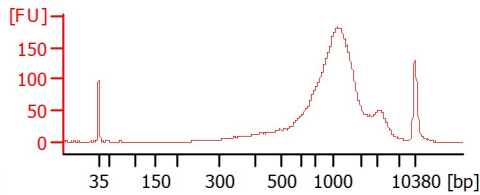
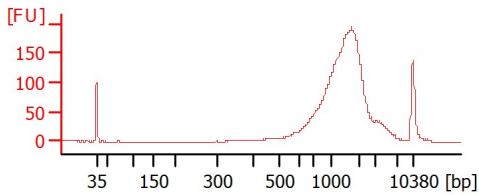
sample 6



sample 7

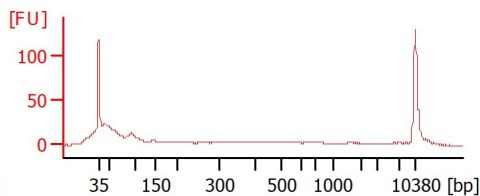
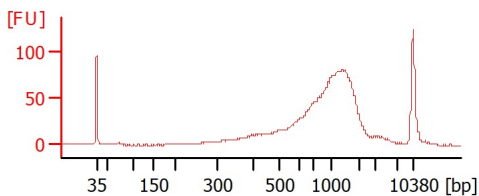
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

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

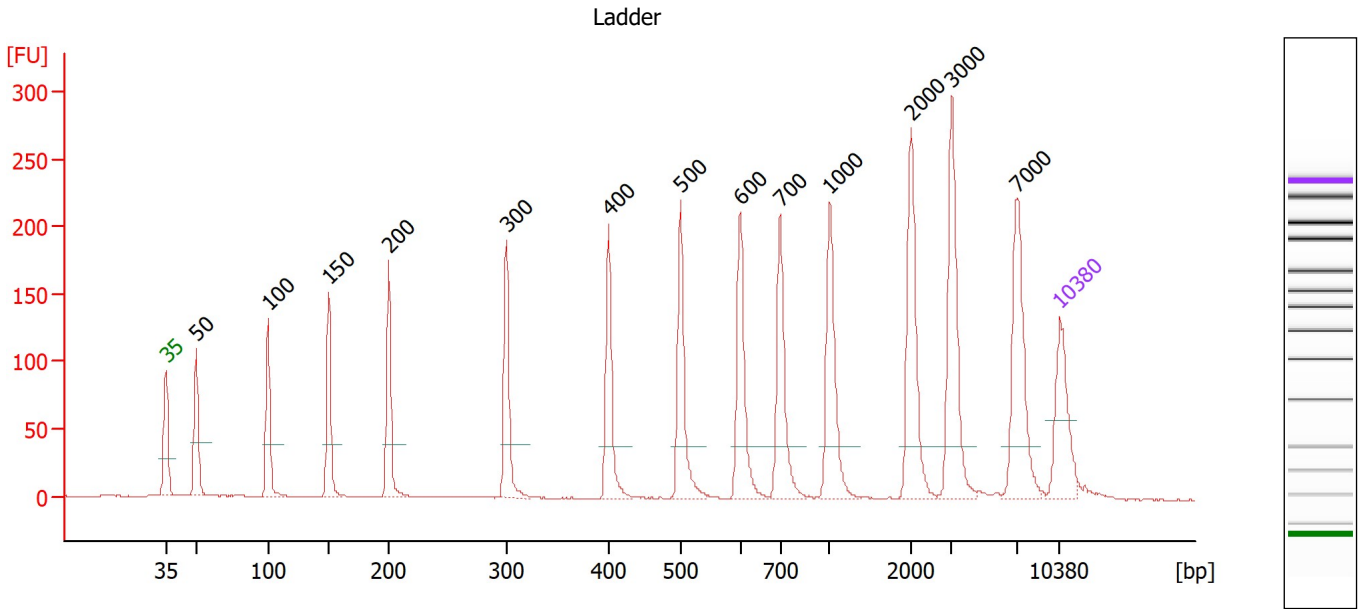
Ladder

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_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

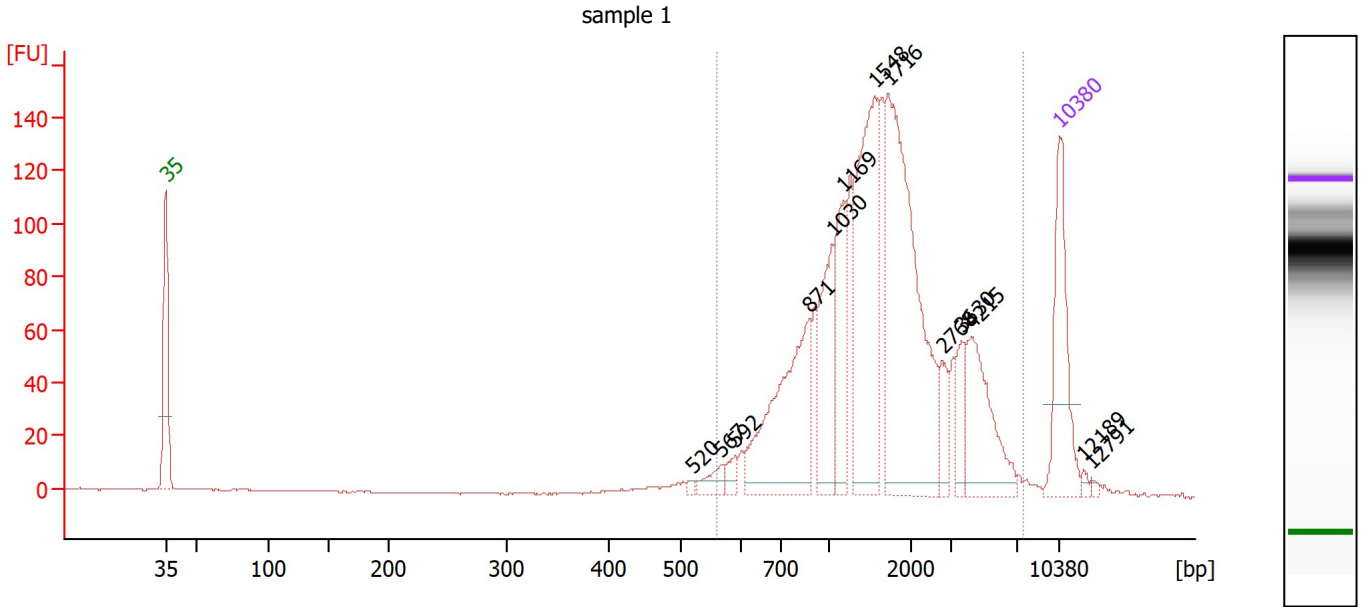
Peak table for Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 13 Corr. Area 1: 1,615.9
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	520	2.94	8.6	
3	567	14.13	37.8	
4	592	10.28	26.3	
5	871	147.95	257.3	
6	1,030	75.93	111.7	
7	1,169	68.11	88.3	
8	1,548	164.25	160.7	
9	1,716	248.69	219.5	
10	2,768	21.40	11.7	
11	3,630	25.77	10.8	
12	4,215	75.49	27.1	
13	10,380	75.00	10.9	Upper Marker
14	12,189	0.00	0.0	
15	12,791	0.00	0.0	

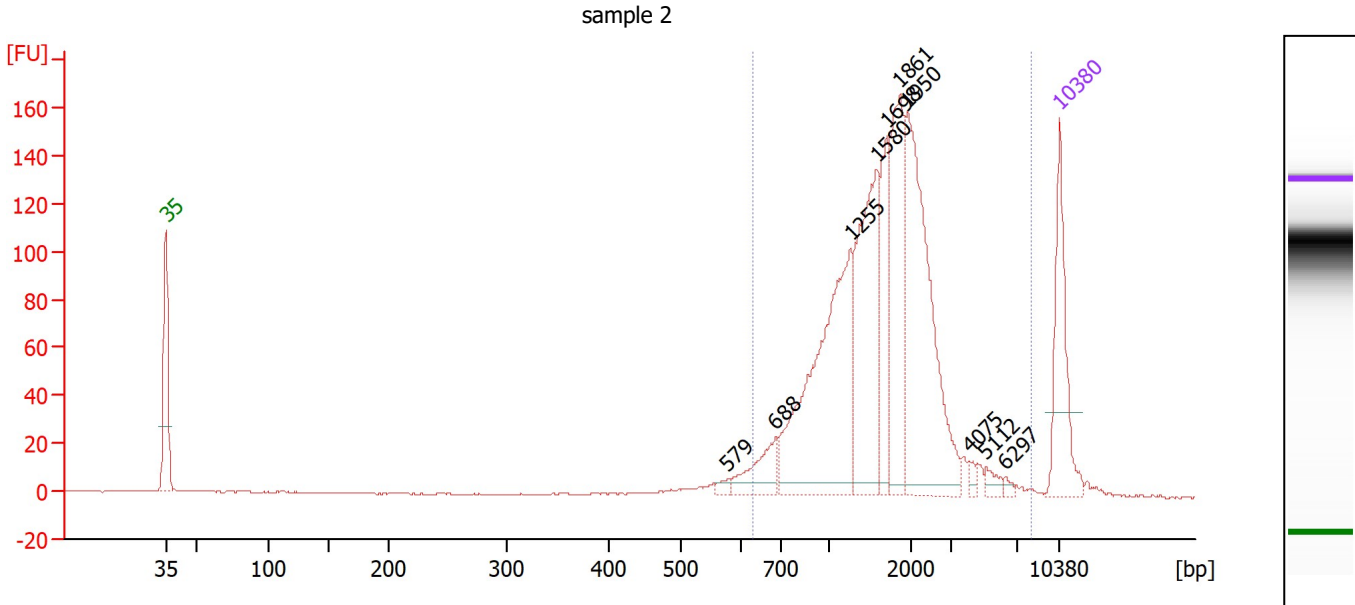
Region table for sample 1 : sample 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
560	7,457	1,615.9	96	1,862	64.6	976.59	1,105.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 10 Corr. Area 1: 1,402.4
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	579	5.91	15.5	
3	688	43.22	95.2	
4	1,255	237.73	287.1	
5	1,580	160.30	153.7	
6	1,698	73.00	65.1	
7	1,861	116.14	94.6	
8	1,950	219.61	170.7	
9	4,075	5.37	2.0	
10	5,112	8.10	2.4	
11	6,297	3.35	0.8	
12	10,380	75.00	10.9	Upper Marker

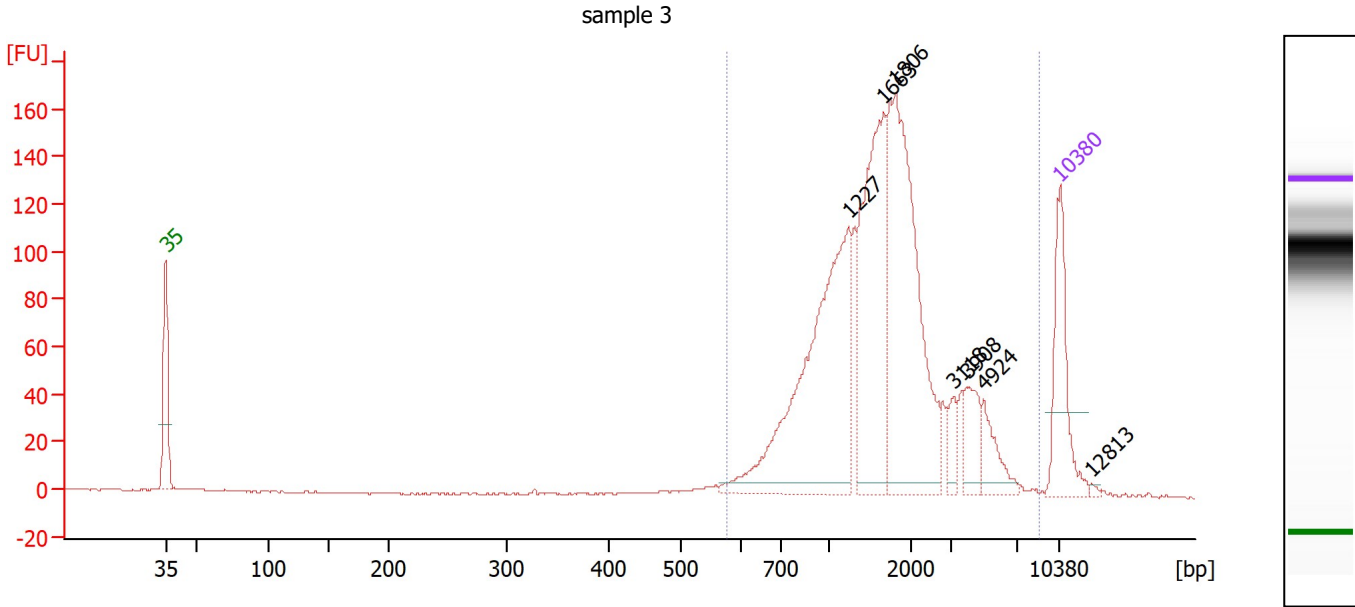
Region table for sample 2 : sample 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
632	8,137	1,402.4	96	1,753	50.8	891.22	938.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 7 Corr. Area 1: 1,532.9
 Noise: 0.3

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,227	315.31	389.2	
3	1,663	211.32	192.5	
4	1,806	281.25	235.9	
5	3,118	18.71	9.1	
6	3,908	36.56	14.2	
7	4,924	31.87	9.8	
8	10,380	75.00	10.9	Upper Marker
9	12,813	0.00	0.0	

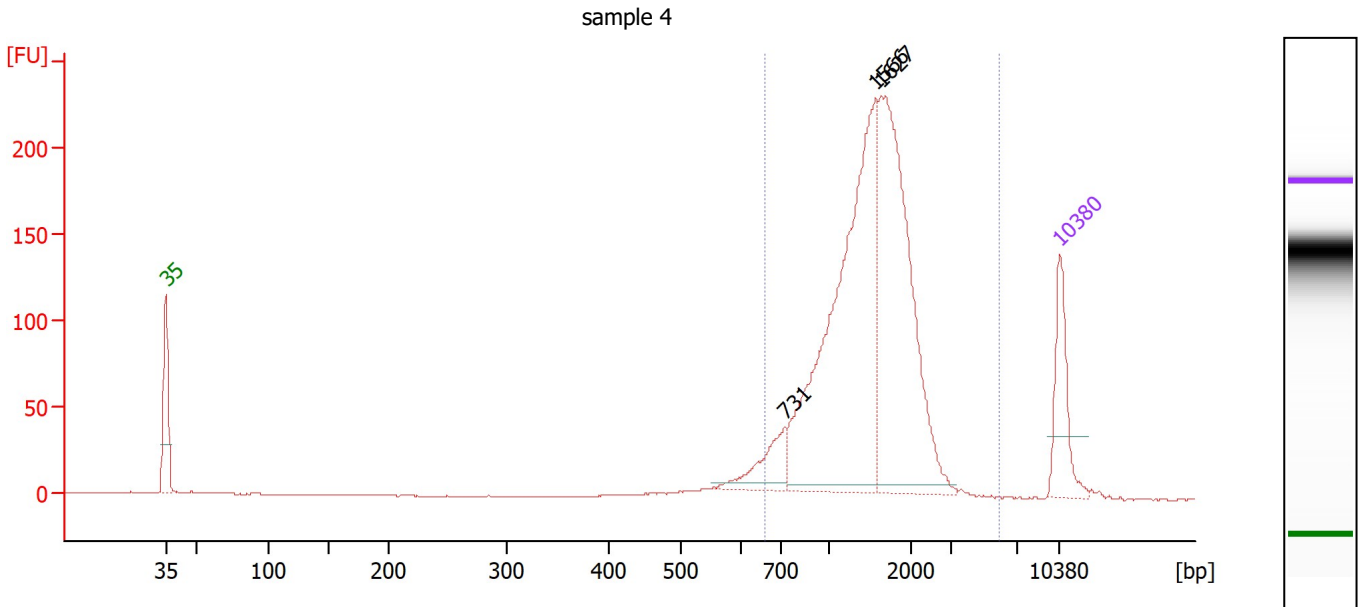
Region table for sample 3 : sample 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
577	8,717	1,532.9	98	1,854	62.0	987.06	1,061.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 3 Corr. Area 1: 1,668.8
 Noise: 0.3

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	731	66.94	138.8	
3	1,566	526.35	509.2	
4	1,627	414.88	386.3	
5	10,380	75.00	10.9	Upper Marker

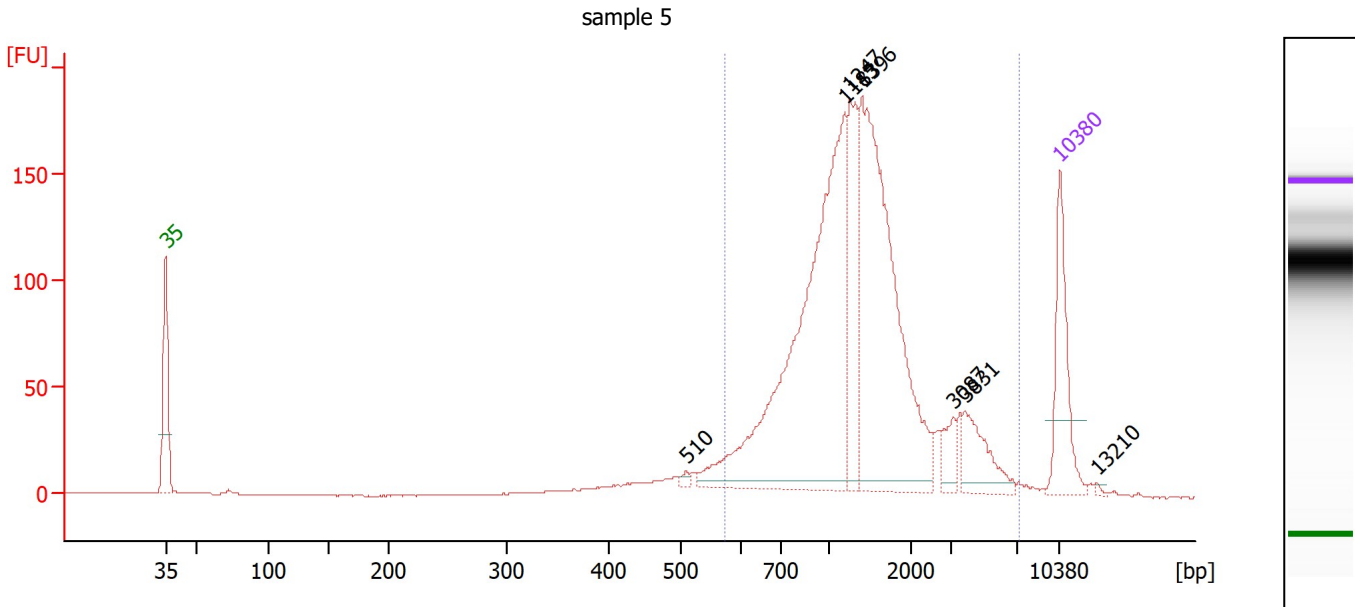
Region table for sample 4 : sample 4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
662	5,909	1,668.8	95	1,500	32.2	1,045.86	1,177.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 7 Corr. Area 1: 1,764.2
 Noise: 0.2

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	510	4.89	14.5	
3	1,185	473.88	606.1	
4	1,247	105.04	127.6	
5	1,396	368.74	400.3	
6	3,087	20.78	10.2	
7	3,831	49.27	19.5	
8	10,380	75.00	10.9	Upper Marker
9	13,210	0.00	0.0	

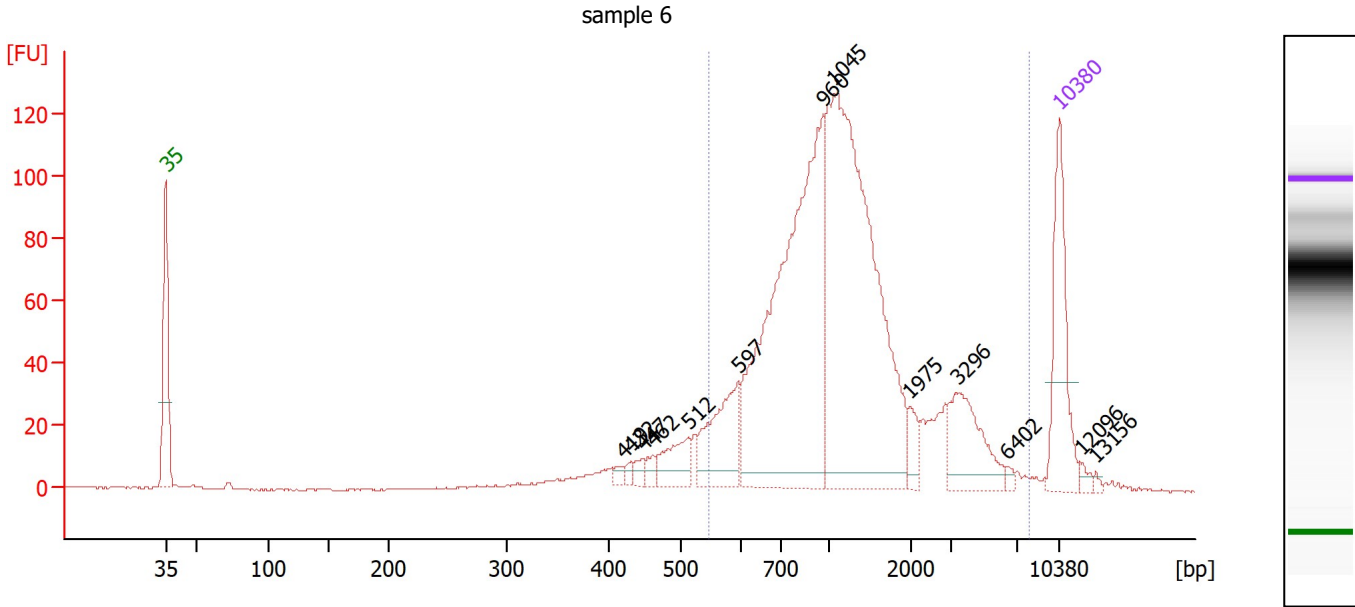
Region table for sample 5 : sample 5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
573	7,117	1,764.2	92	1,546	65.3	1,103.66	1,420.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 13 Corr. Area 1: 1,396.5
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	419	5.44	19.7	
3	432	5.24	18.4	
4	447	7.31	24.8	
5	462	9.32	30.6	
6	512	35.47	104.9	
7	597	76.32	193.7	
8	960	390.16	615.9	
9	1,045	424.03	614.7	
10	1,975	14.69	11.3	
11	3,296	59.17	27.2	
12	6,402	3.42	0.8	
13	10,380	75.00	10.9	Upper Marker
14	12,096	0.00	0.0	
15	13,156	0.00	0.0	

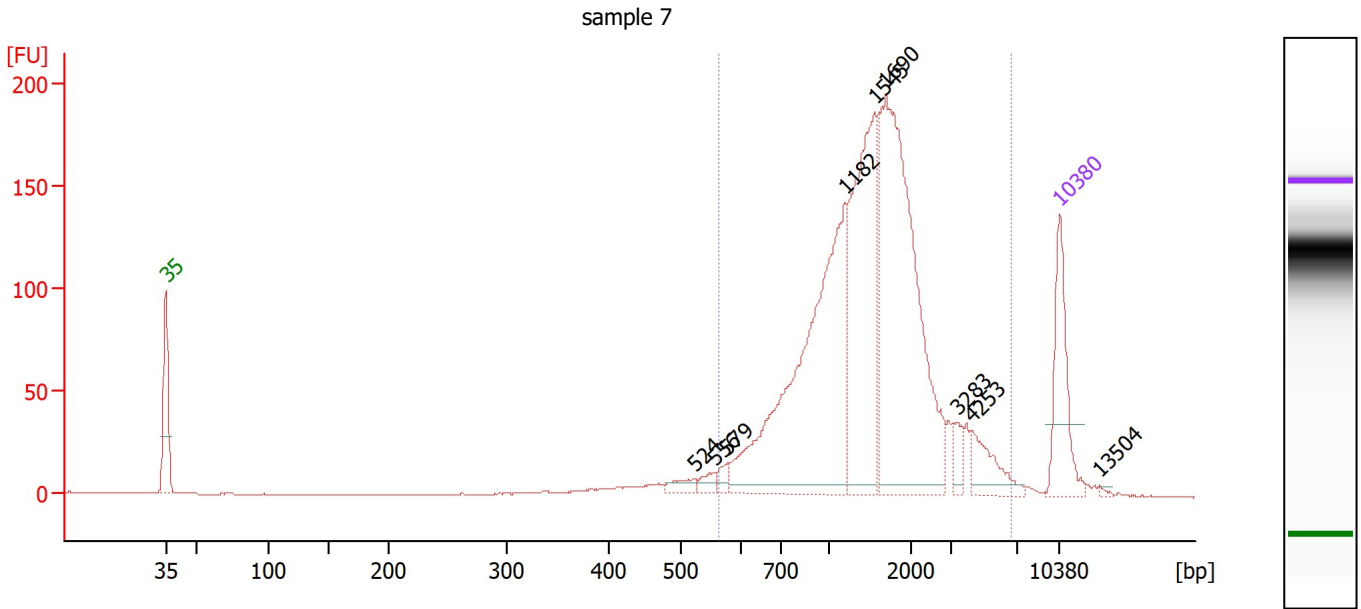
Region table for sample 6 : sample 6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
547	8,007	1,396.5	86	1,427	78.6	1,039.03	1,563.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 9 Corr. Area 1: 1,849.1
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	524	13.32	38.5	
3	556	11.63	31.7	
4	579	10.95	28.7	
5	1,182	403.34	517.1	
6	1,545	245.65	241.0	
7	1,690	400.73	359.3	
8	3,283	14.38	6.6	
9	4,253	38.64	13.8	
10	10,380	75.00	10.9	Upper Marker
11	13,504	0.00	0.0	

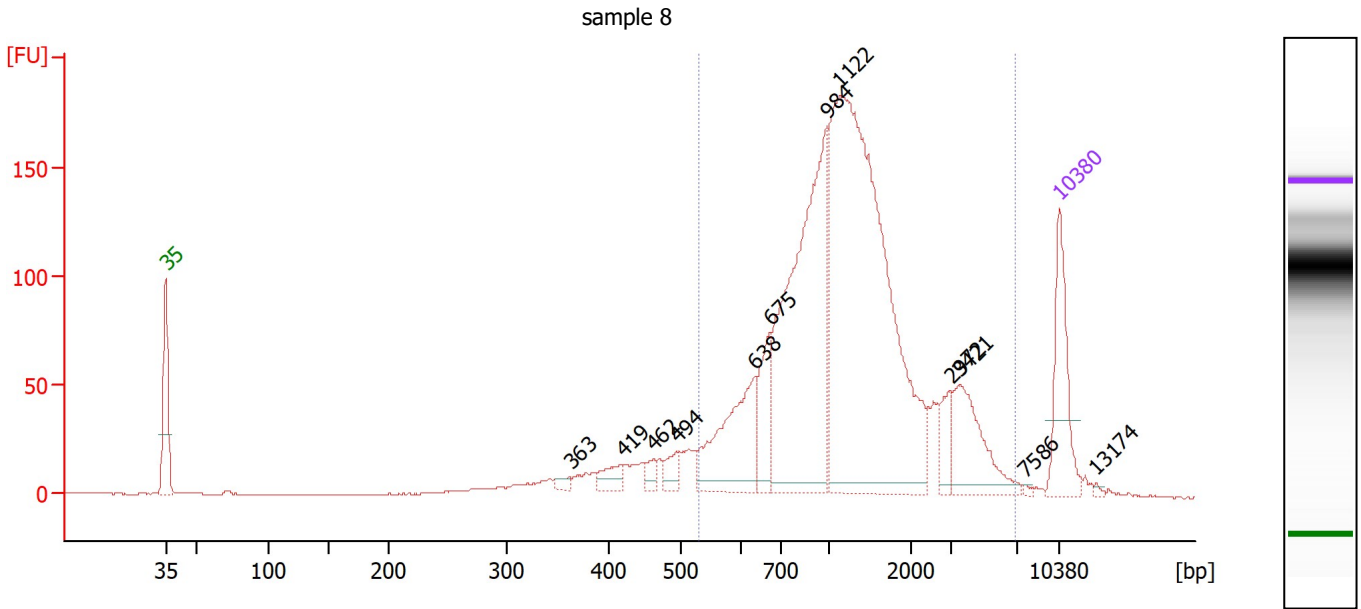
Region table for sample 7 : sample 7

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
565	6,618	1,849.1	94	1,647	57.0	1,193.42	1,415.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 12 Corr. Area 1: 2,029.2
 Noise: 0.3

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	363	8.02	33.5	
3	419	22.61	81.8	
4	462	12.91	42.3	
5	494	19.08	58.6	
6	638	133.10	315.9	
7	675	62.27	139.8	
8	984	379.57	584.6	
9	1,122	653.00	882.1	
10	2,972	26.09	13.3	
11	3,421	81.77	36.2	
12	7,586	1.94	0.4	
13	10,380	75.00	10.9	Upper Marker
14	13,174	0.00	0.0	

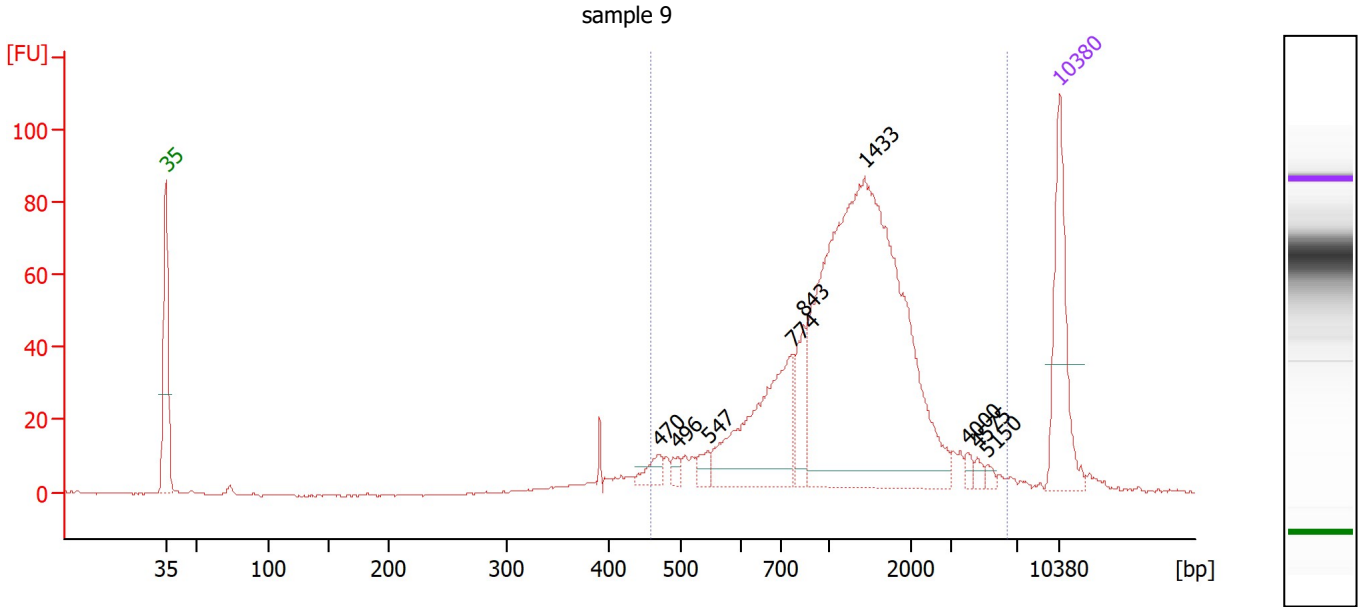
Region table for sample 8 : sample 8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
529	6,851	2,029.2	87	1,445	68.9	1,396.60	2,018.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 9 Corr. Area 1: 975.0
 Noise: 0.2

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	470	15.78	50.9	
3	496	7.67	23.4	
4	547	10.98	30.4	
5	774	142.10	278.1	
6	843	39.79	71.6	
7	1,433	511.49	540.6	
8	4,000	4.85	1.8	
9	4,575	4.81	1.6	
10	5,150	3.84	1.1	
11	10,380	75.00	10.9	Upper Marker

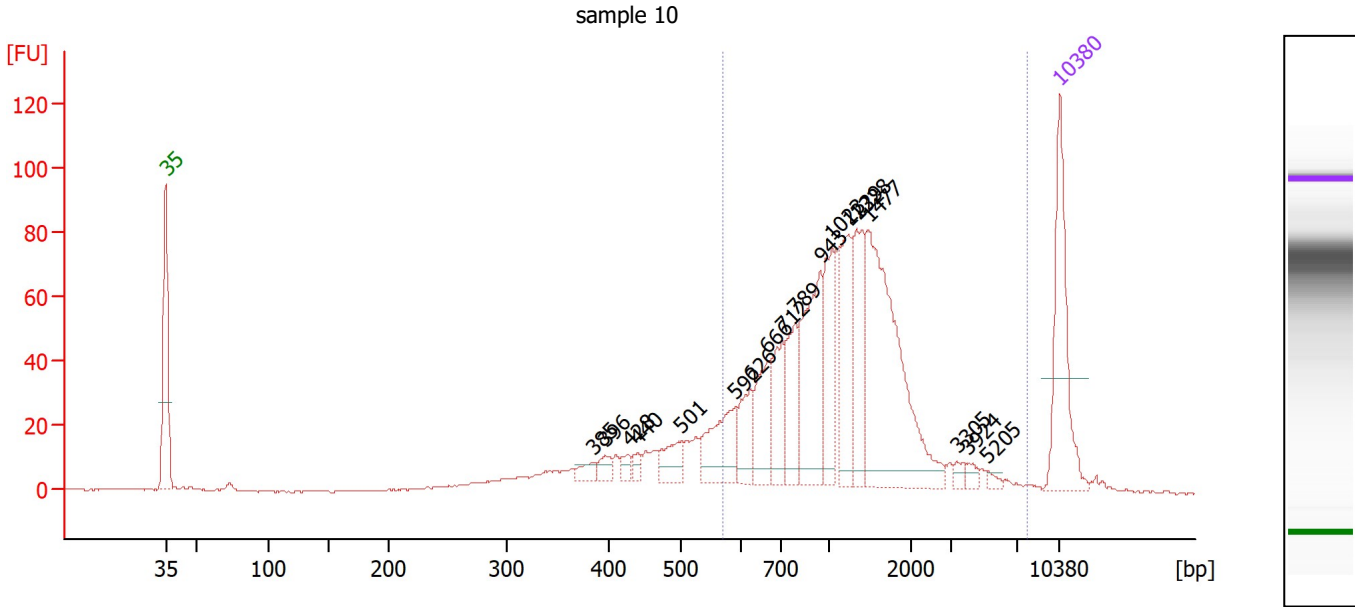
Region table for sample 9 : sample 9

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
459	6,421	975.0	91	1,392	61.1	829.40	1,230.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 18 Corr. Area 1: 935.2
 Noise: 0.3

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	385	9.52	37.4	
3	396	10.75	41.1	
4	428	7.82	27.7	
5	440	6.68	23.0	
6	501	22.92	69.3	
7	592	51.85	132.6	
8	626	32.96	79.8	
9	666	42.38	96.4	
10	712	47.01	100.0	
11	789	43.78	84.1	
12	943	91.57	147.2	
13	1,023	60.42	89.5	
14	1,229	59.72	73.6	
15	1,328	63.51	72.4	
16	1,477	175.76	180.3	
17	3,305	4.93	2.3	
18	3,924	4.82	1.9	
19	5,205	3.47	1.0	
20	10,380	75.00	10.9	Upper Marker

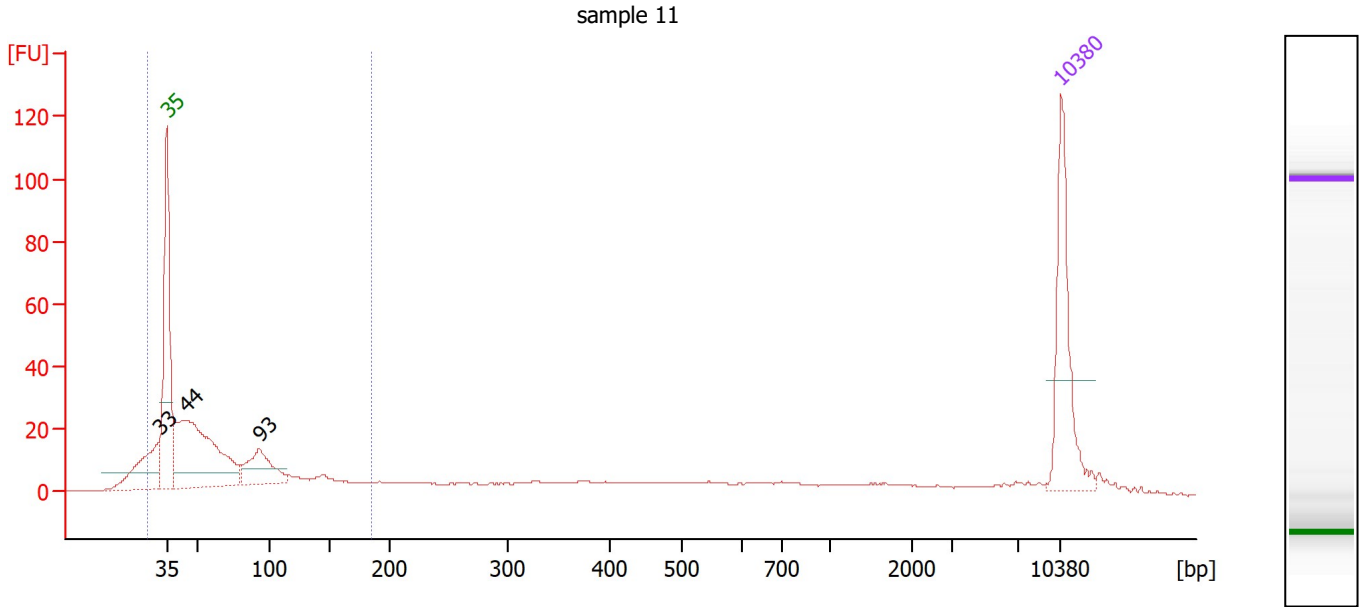
Region table for sample 10 : sample 10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
571	7,803	935.2	76	1,363	68.3	729.44	1,069.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 3 Corr. Area 1: 329.0
 Noise: 0.2

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	44	225.74	7,766.8	
4	93	62.90	1,024.6	
5	10,380	75.00	10.9	Upper Marker

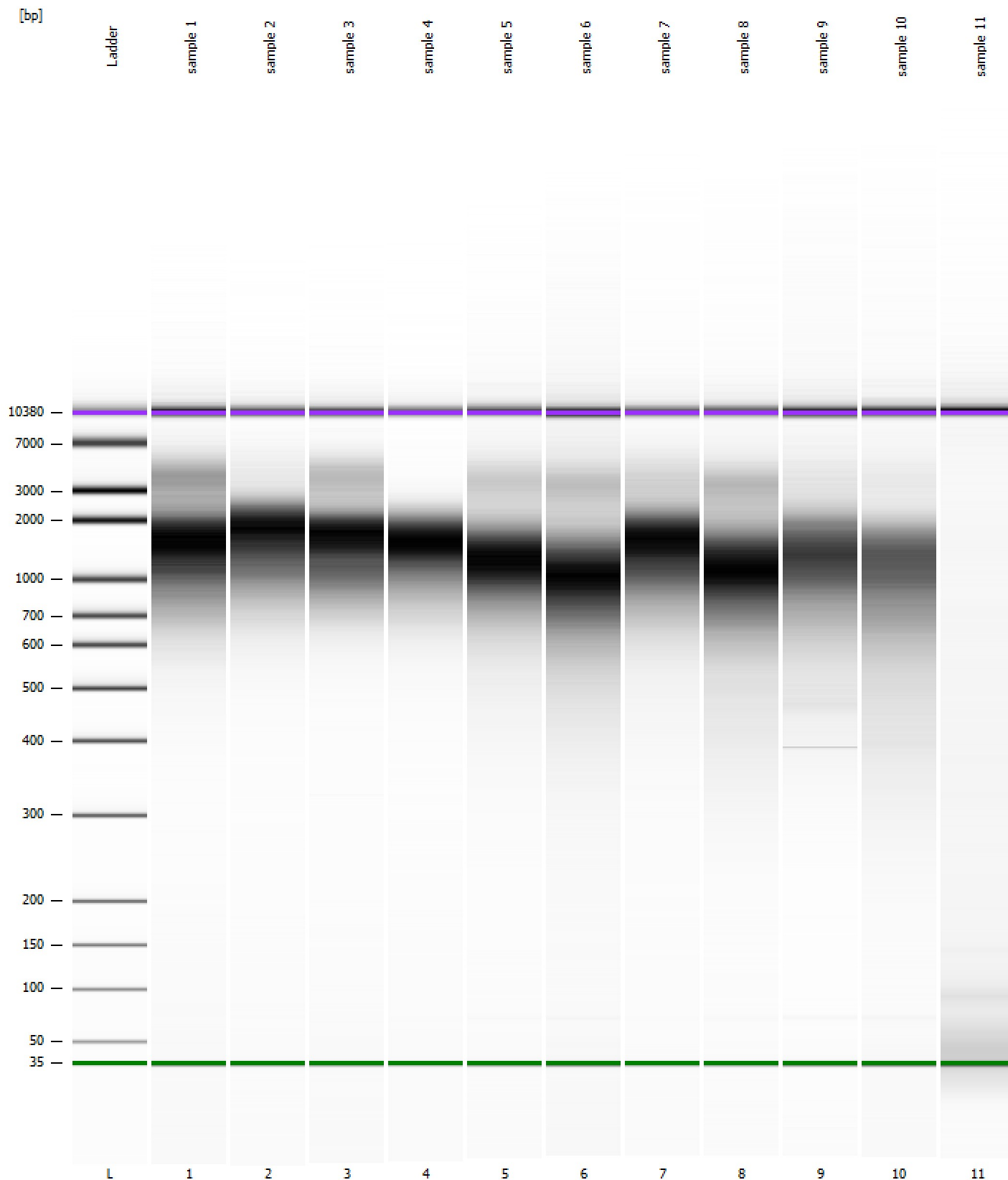
Region table for sample 11 : sample 11

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
26	185	329.0	55	64	58.5	431.12	11,389.9	■

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
Modified: 1/29/2020 11:01:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-29_001.xad

Created: 1/29/2020 10:09:27 AM
 Modified: 1/29/2020 11:01:06 AM

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		1/29/2020 10:50:47 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-29\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-29_001.xad)		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/29/2020 10:09:32 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB