

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad

Created: 8/18/2023 8:58:47 AM
Modified: 8/18/2023 9:41:30 AM

Electrophoresis File Run Summary

Instrument Information:

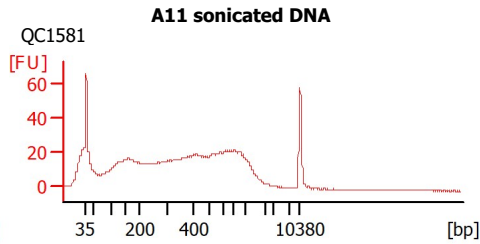
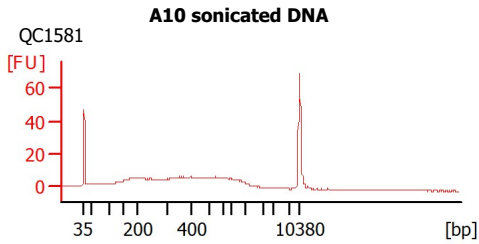
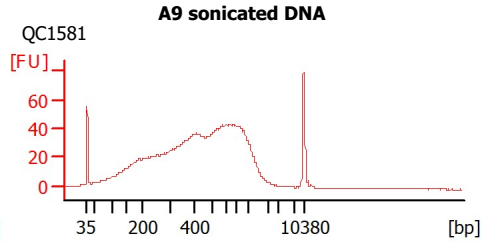
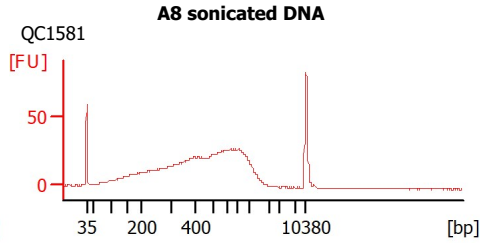
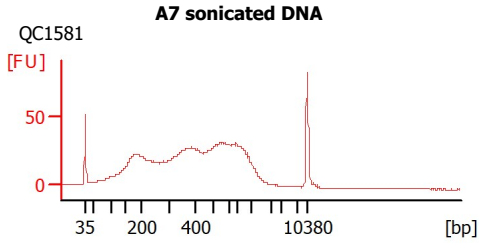
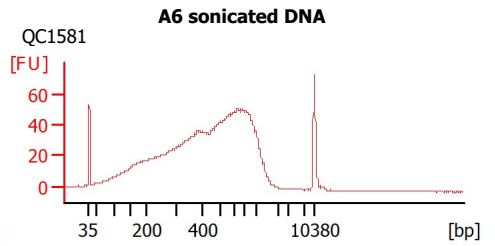
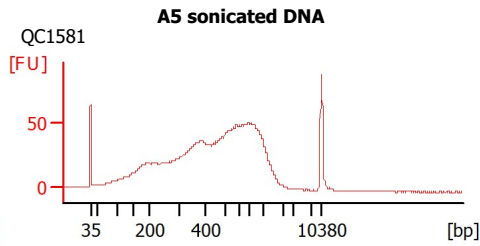
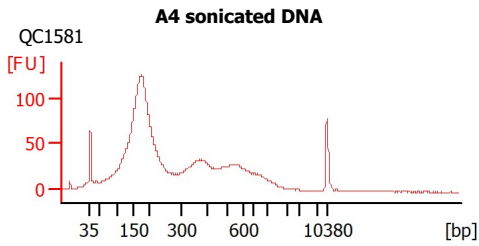
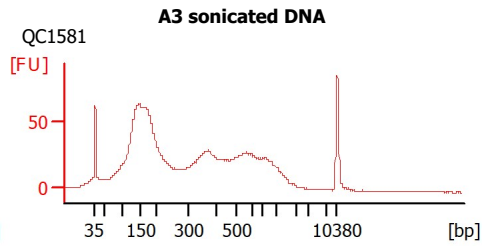
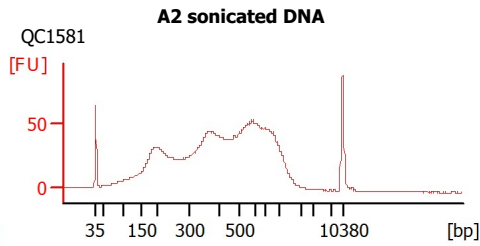
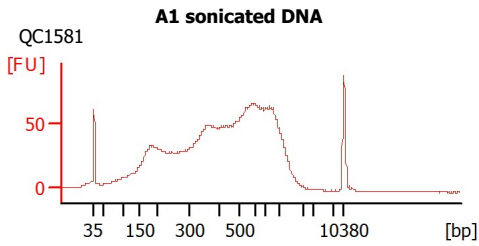
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A2 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A3 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A4 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A5 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A6 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A7 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A8 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A9 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A10 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
A11 sonicated DNA	QC1581	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

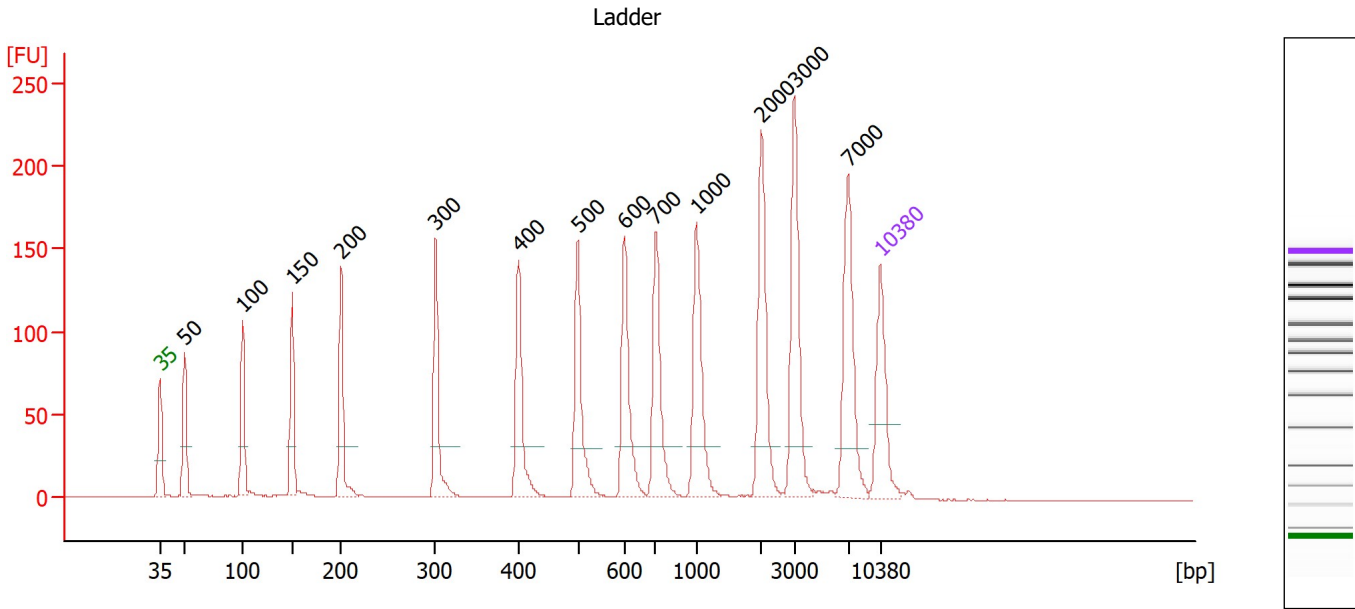
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

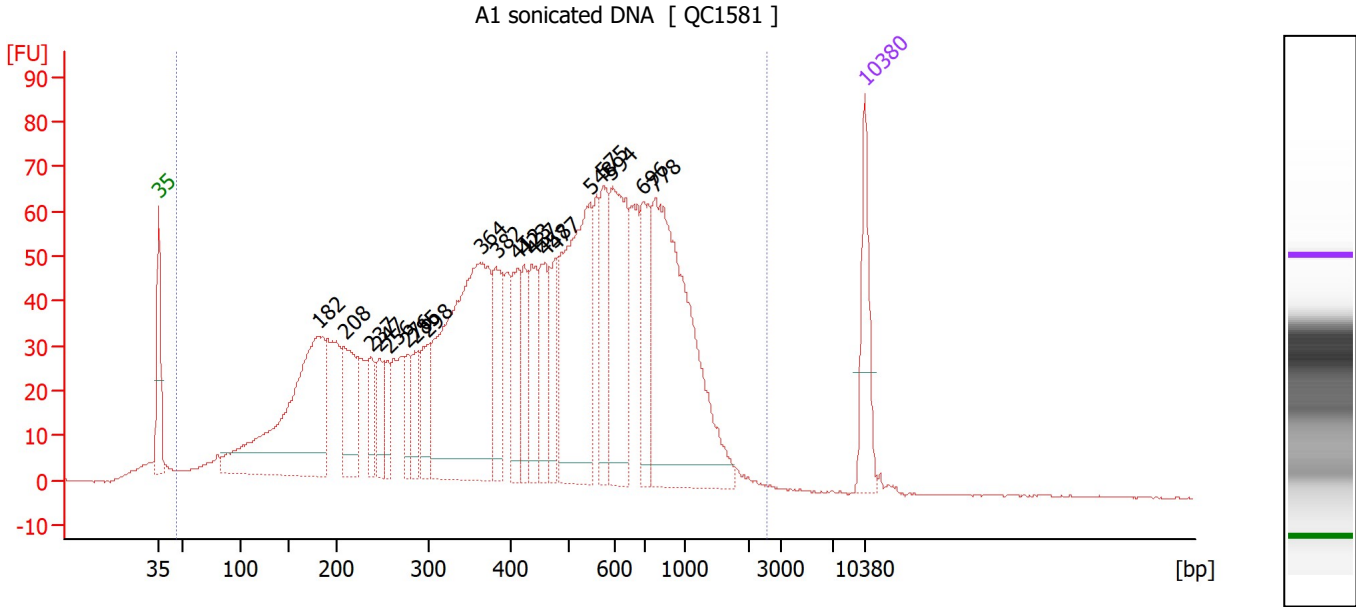
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : A1 sonicated DNA

Number of peaks found: 20 Corr. Area 1: 2,536.3
 Noise: 0.2

Peak table for sample 1 : A1 sonicated DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	182	489.58	4,085.0	
3	208	135.83	989.6	
4	237	55.22	352.5	
5	247	53.57	329.2	
6	256	48.32	286.2	
7	276	48.92	268.5	
8	285	52.81	281.1	
9	298	69.03	350.4	
10	364	521.73	2,173.7	
11	382	95.48	378.7	
12	412	85.95	315.8	
13	423	67.09	240.1	
14	437	86.09	298.4	
15	458	85.41	282.4	
16	477	76.18	242.1	
17	548	323.03	892.6	
18	575	95.21	250.9	
19	594	198.05	505.6	
20	696	104.34	227.2	
21	778	444.58	866.0	
22	10,380	75.00	10.9	Upper Marker

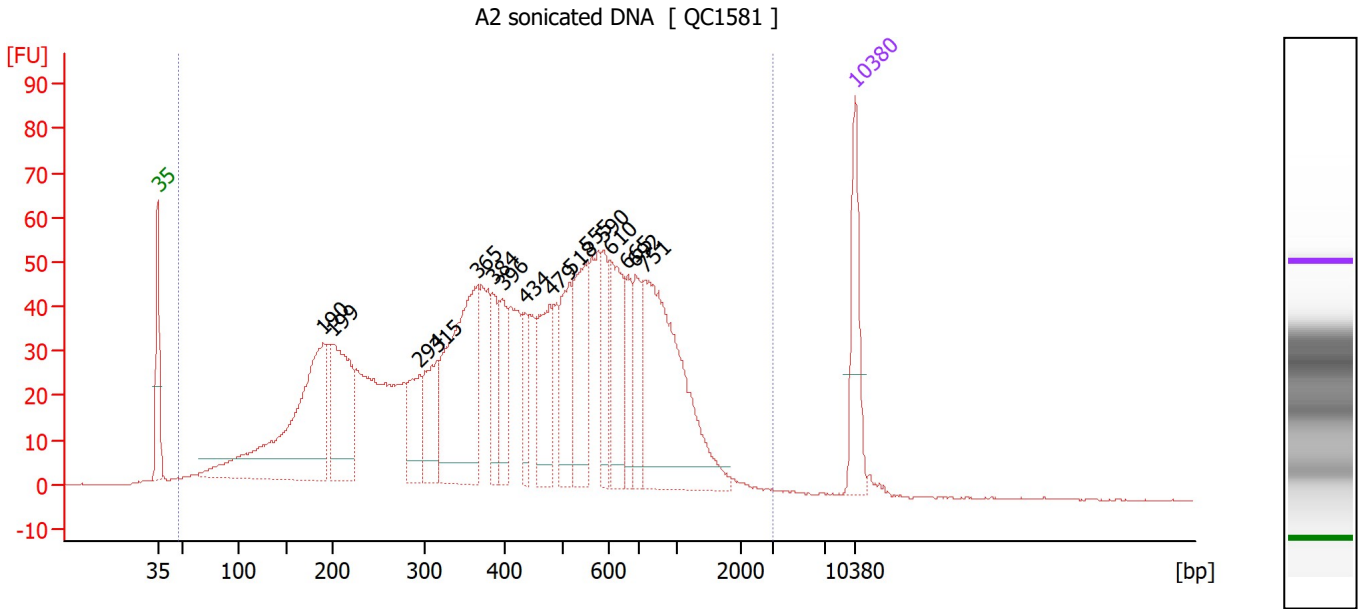
Region table for sample 1 : A1 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	2,556	2,536.3	98	505	59.3	4,087.22	21,313.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : A2 sonicated DNA

Number of peaks found: 16 Corr. Area 1: 2,091.3
 Noise: 0.2

Peak table for sample 2 : A2 sonicated DNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	190	414.08	3,305.6	
3	199	216.37	1,649.3	
4	294	84.79	436.3	
5	315	95.61	460.1	
6	365	286.02	1,186.7	
7	384	55.80	220.3	
8	396	68.79	263.0	
9	434	48.01	167.6	
10	479	104.76	331.7	
11	518	96.87	283.6	
12	555	117.70	321.3	
13	590	62.47	160.3	
14	610	108.14	268.5	
15	665	48.57	110.6	
16	692	63.73	139.5	
17	751	317.46	640.7	
18	10,380	75.00	10.9	Upper Marker

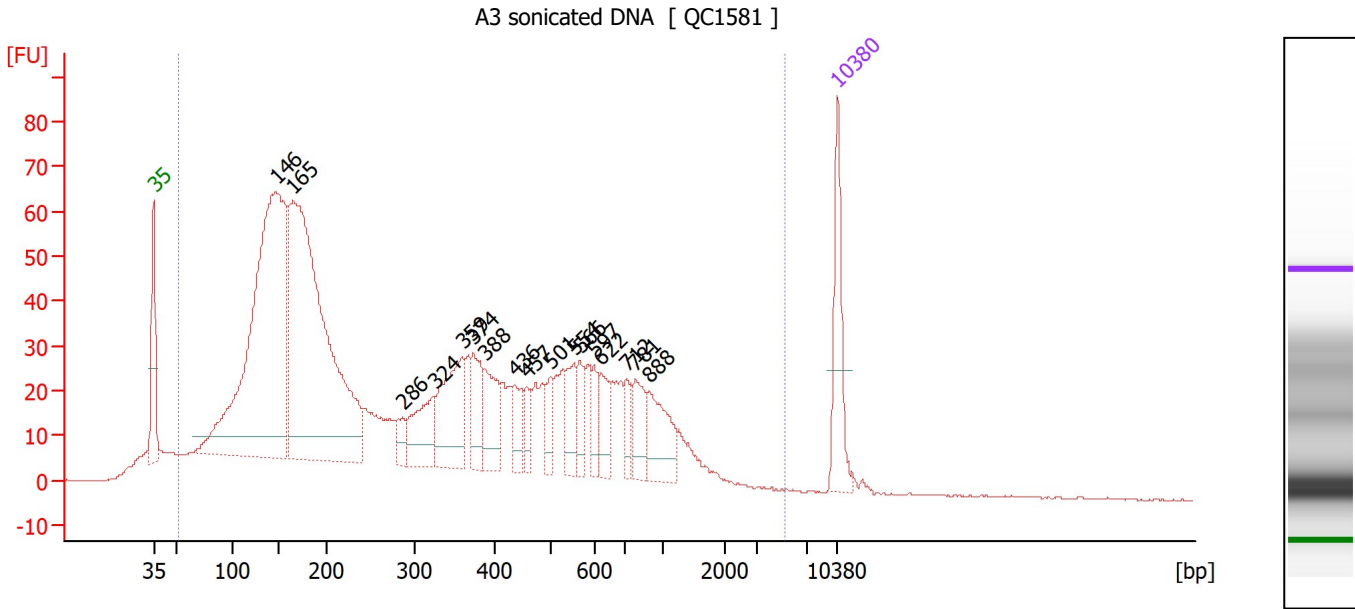
Region table for sample 2 : A2 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
49	3,007	2,091.3	99	492	61.9	3,219.98	16,997.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : A3 sonicated DNA

Number of peaks found: 17 Corr. Area 1: 1,998.3
 Noise: 0.2

Peak table for sample 3 : A3 sonicated DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	146	938.42	9,718.0	
3	165	879.23	8,094.2	
4	286	25.94	137.6	
5	324	91.38	426.9	
6	359	131.57	554.6	
7	374	66.50	269.7	
8	388	72.01	281.4	
9	436	43.23	150.3	
10	457	25.09	83.2	
11	501	29.08	88.0	
12	554	46.67	127.5	
13	566	29.46	78.8	
14	597	26.69	67.7	
15	622	40.30	98.2	
16	712	26.07	55.5	
17	781	47.05	91.2	
18	888	71.47	122.0	
19	10,380	75.00	10.9	Upper Marker

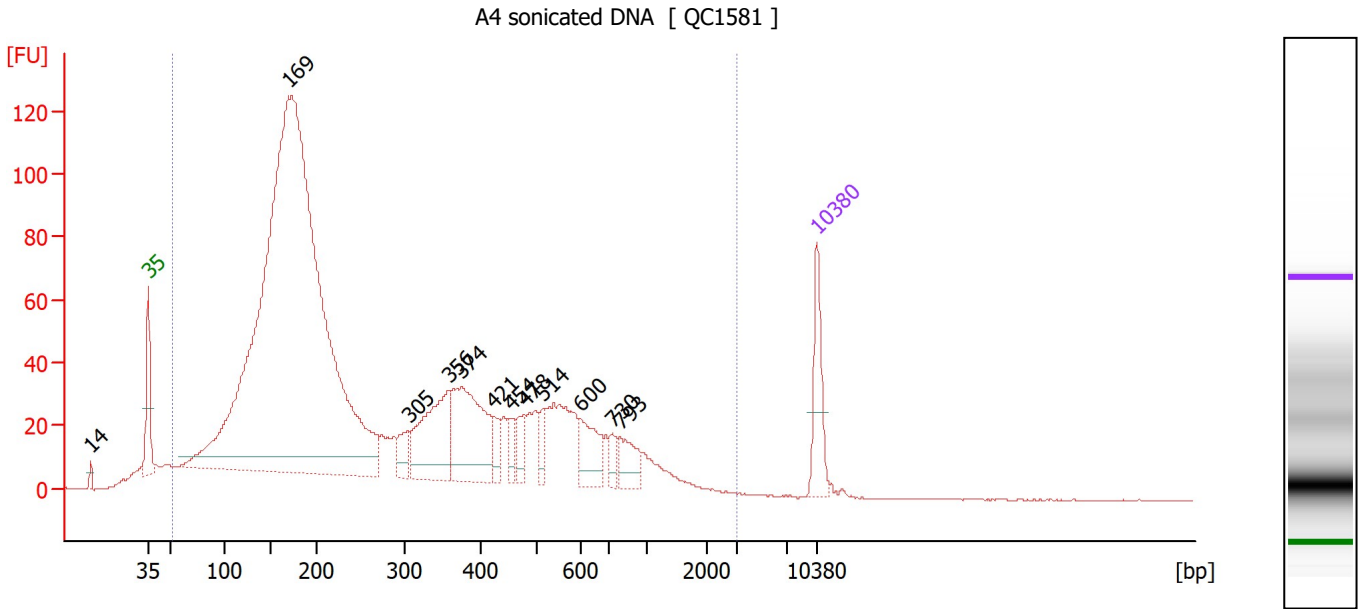
Region table for sample 3 : A3 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
52	5,335	1,998.3	97	393	92.9	3,675.73	29,036.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : A4 sonicated DNA

Number of peaks found: 12 Corr. Area 1: 2,571.3
 Noise: 0.1

Peak table for sample 4 : A4 sonicated DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	14	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	169	3,096.11	27,743.7	
4	305	43.96	218.1	
5	356	199.69	848.9	
6	374	228.99	926.8	
7	421	33.08	119.0	
8	454	28.01	93.5	
9	478	39.47	125.0	
10	514	30.57	90.1	
11	600	73.62	185.9	
12	730	23.22	48.2	
13	793	51.39	98.2	
14	10,380	75.00	10.9	Upper Marker

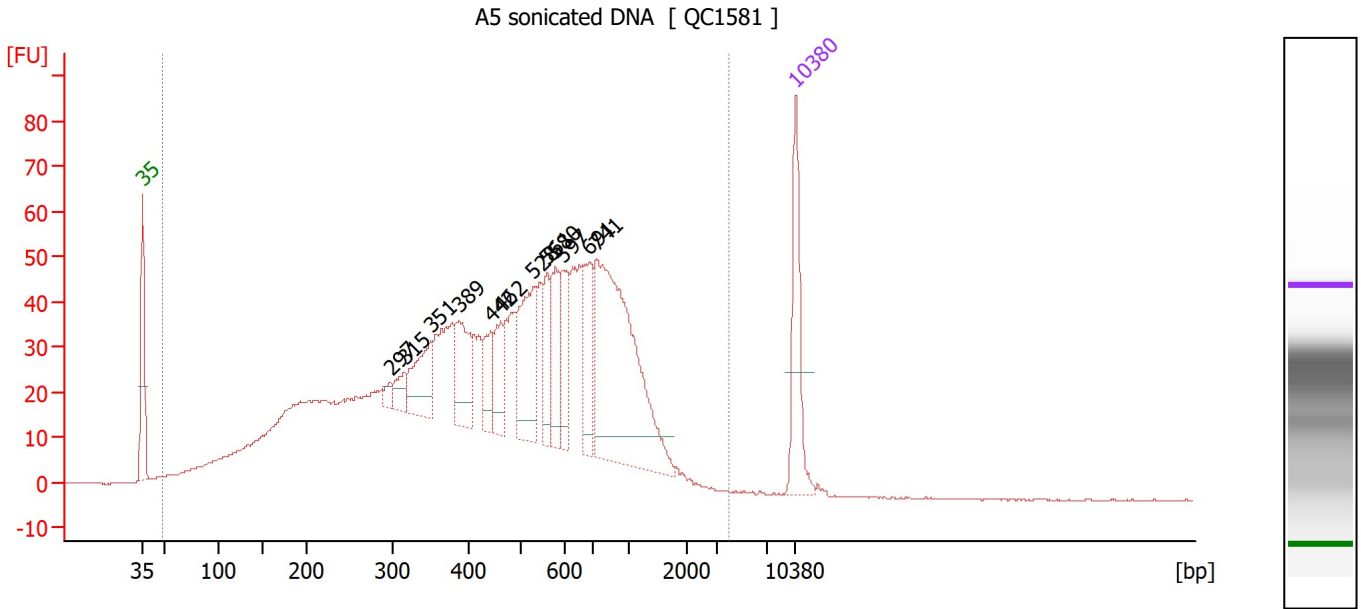
Region table for sample 4 : A4 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
52	2,975	2,571.3	97	321	82.3	4,887.29	39,857.5	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 5 : A5 sonicated DNA

Number of peaks found: 12 Corr. Area 1: 1,780.6
 Noise: 0.2

Peak table for sample 5 : A5 sonicated DNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	10.81	55.2	
3	315	22.88	109.9	
4	351	70.60	305.0	
5	389	73.81	287.6	
6	442	43.02	147.4	
7	462	44.88	147.2	
8	528	107.43	308.0	
9	561	45.76	123.6	
10	580	59.77	156.2	
11	597	59.42	150.7	
12	691	75.00	164.4	
13	741	320.44	655.6	
14	10,380	75.00	10.9	Upper Marker

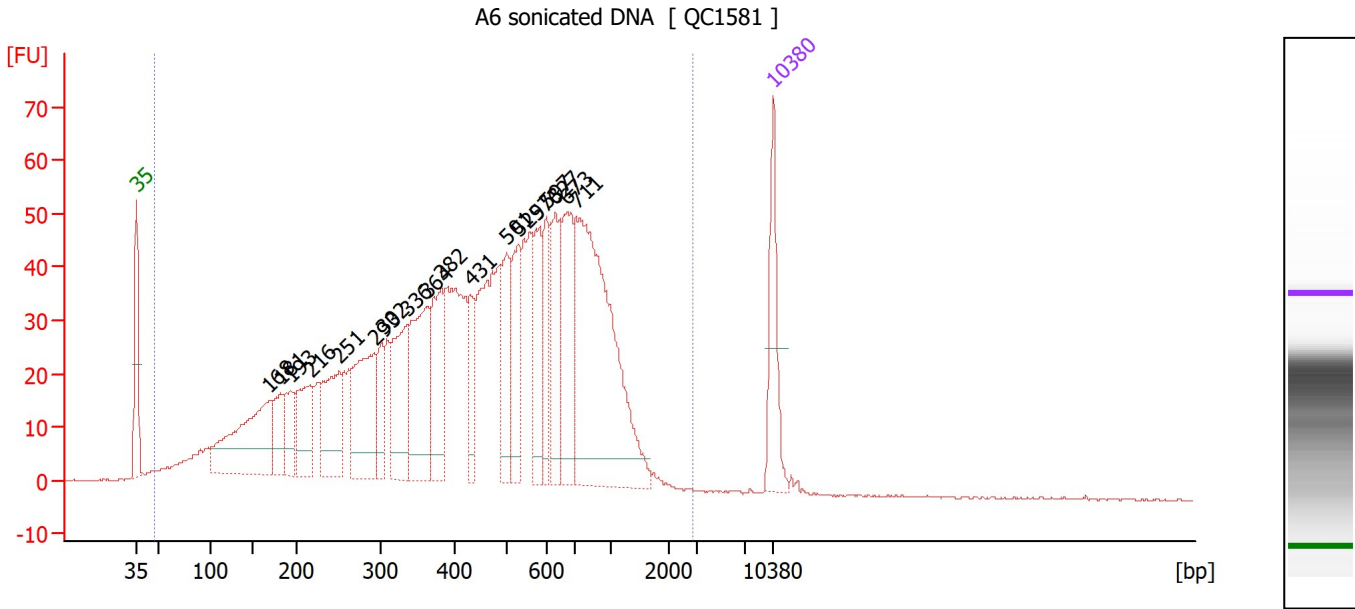
Region table for sample 5 : A5 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
48	3,925	1,780.6	100	535	61.5	2,701.65	13,409.8	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : A6 sonicated DNA

Number of peaks found: 18 Corr. Area 1: 1,793.2
 Noise: 0.1

Peak table for sample 6 : A6 sonicated DNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	168	247.39	2,228.4	
3	181	62.53	523.1	
4	193	66.59	523.3	
5	216	106.24	744.8	
6	251	133.51	807.1	
7	293	177.56	918.9	
8	302	52.32	262.5	
9	336	131.18	591.5	
10	364	178.64	743.0	
11	382	117.38	465.1	
12	431	61.64	216.6	
13	501	96.50	292.0	
14	529	96.03	275.1	
15	573	87.88	232.5	
16	597	66.97	170.0	
17	627	109.92	265.8	
18	673	128.05	288.1	
19	711	435.18	928.0	
20	10,380	75.00	10.9	Upper Marker

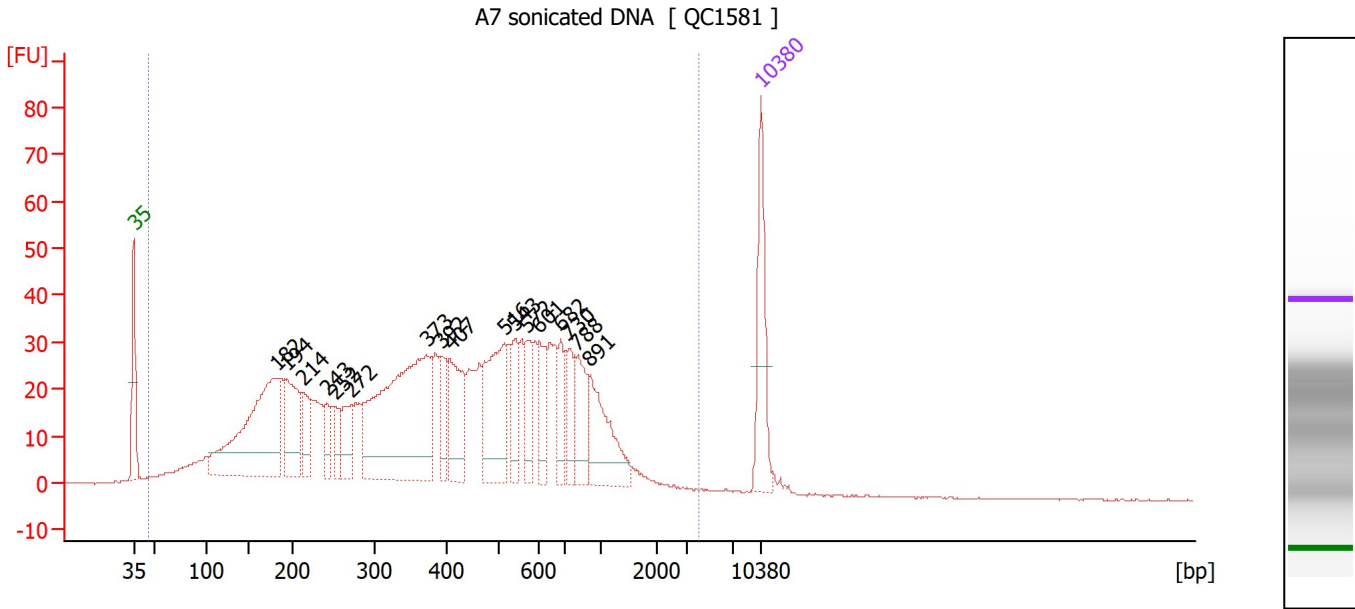
Region table for sample 6 : A6 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
47	2,862	1,793.2	99	503	55.9	3,399.66	17,589.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : A7 sonicated DNA

Number of peaks found: 17 Corr. Area 1: 1,389.4
 Noise: 0.1

Peak table for sample 7 : A7 sonicated DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	182	309.63	2,572.0	
3	194	110.23	862.6	
4	214	52.69	372.9	
5	243	33.54	209.4	
6	252	31.96	192.3	
7	272	49.85	277.2	
8	373	344.70	1,399.2	
9	392	40.16	155.1	
10	407	92.66	345.0	
11	516	131.38	386.1	
12	543	42.78	119.4	
13	572	38.25	101.4	
14	601	41.26	104.1	
15	682	36.03	80.1	
16	730	44.44	92.2	
17	788	52.69	101.3	
18	891	91.69	155.9	
19	10,380	75.00	10.9	Upper Marker

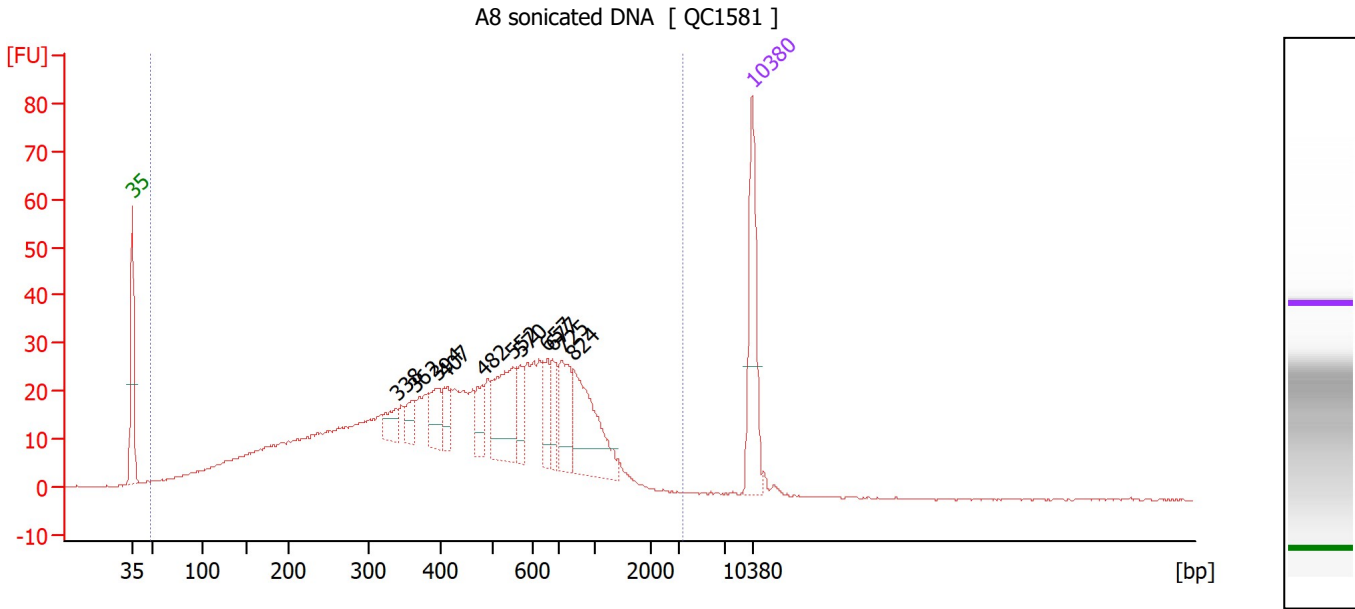
Region table for sample 7 : A7 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
45	4,106	1,389.4	99	471	67.6	2,375.00	13,674.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : A8 sonicated DNA

Number of peaks found: 11 Corr. Area 1: 999.0
 Noise: 0.2

Peak table for sample 8 : A8 sonicated DNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	338	21.44	96.1	
3	362	18.86	79.0	
4	394	35.43	136.3	
5	407	24.36	90.7	
6	482	24.18	76.0	
7	552	81.31	223.3	
8	570	26.43	70.2	
9	657	30.17	69.6	
10	677	26.33	58.9	
11	725	49.64	103.8	
12	824	95.55	175.7	
13	10,380	75.00	10.9	Upper Marker

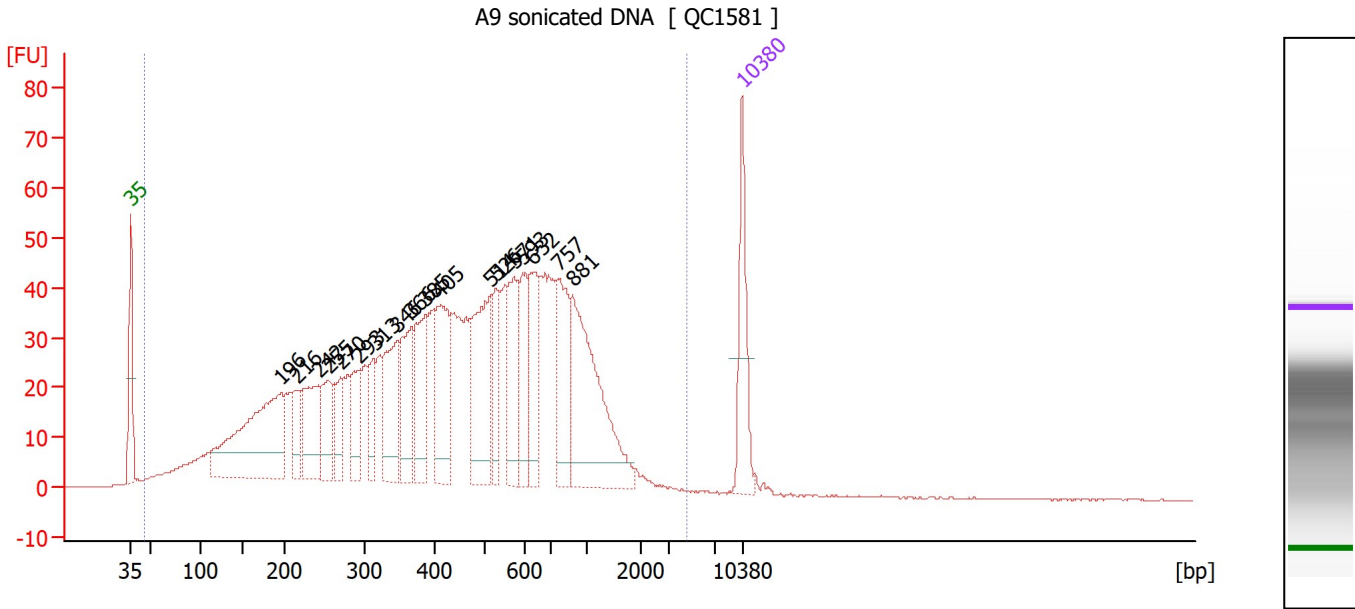
Region table for sample 8 : A8 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
48	3,469	999.0	99	507	59.9	1,577.07	8,213.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : A9 sonicated DNA

Number of peaks found: 18 Corr. Area 1: 1,706.6
 Noise: 0.1

Peak table for sample 9 : A9 sonicated DNA

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	196	310.74	2,405.3	
3	216	47.75	335.7	
4	242	113.12	707.8	
5	255	68.29	405.0	
6	270	57.31	321.5	
7	293	62.91	324.9	
8	313	47.45	229.8	
9	346	117.78	515.6	
10	366	100.74	416.5	
11	385	109.56	430.8	
12	405	127.70	477.9	
13	514	162.03	477.7	
14	526	61.40	176.9	
15	571	90.70	240.5	
16	593	73.04	186.7	
17	632	78.06	187.2	
18	757	100.04	200.2	
19	881	221.56	381.1	
20	10,380	75.00	10.9	Upper Marker

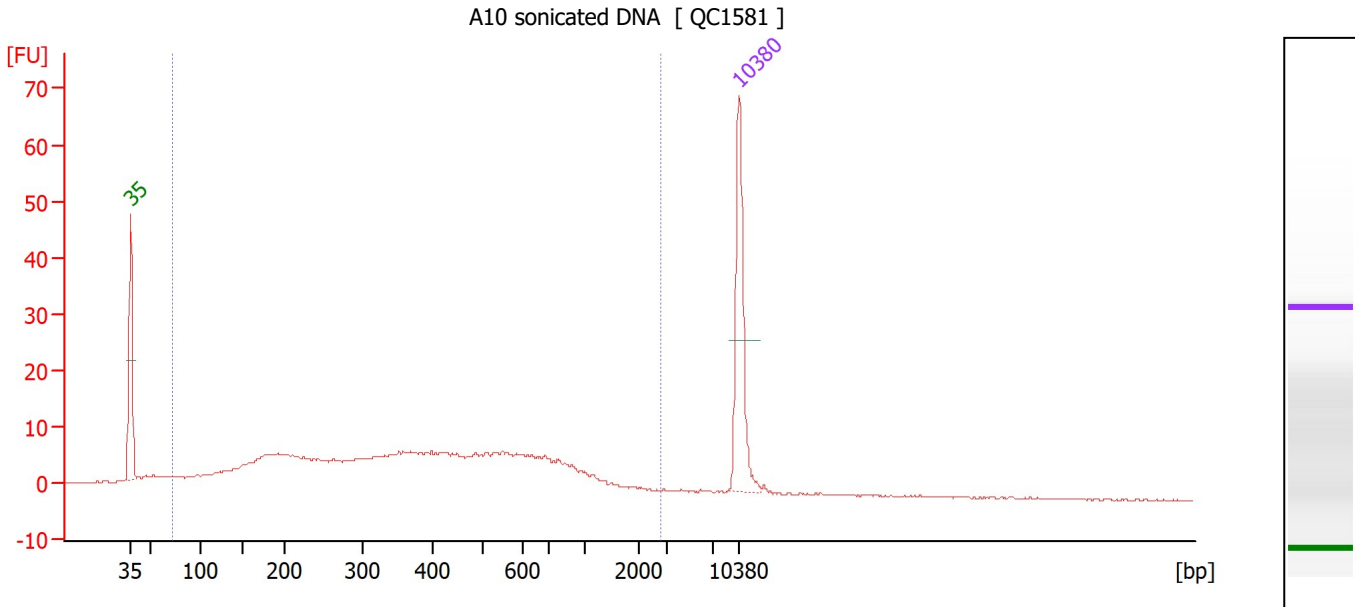
Region table for sample 9 : A9 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
45	4,617	1,706.6	99	522	68.4	3,040.79	16,064.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : A10 sonicated DNA

Number of peaks found: 0 Corr. Area 1: 315.5
 Noise: 0.1

Peak table for sample 10 : A10 sonicated DNA

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

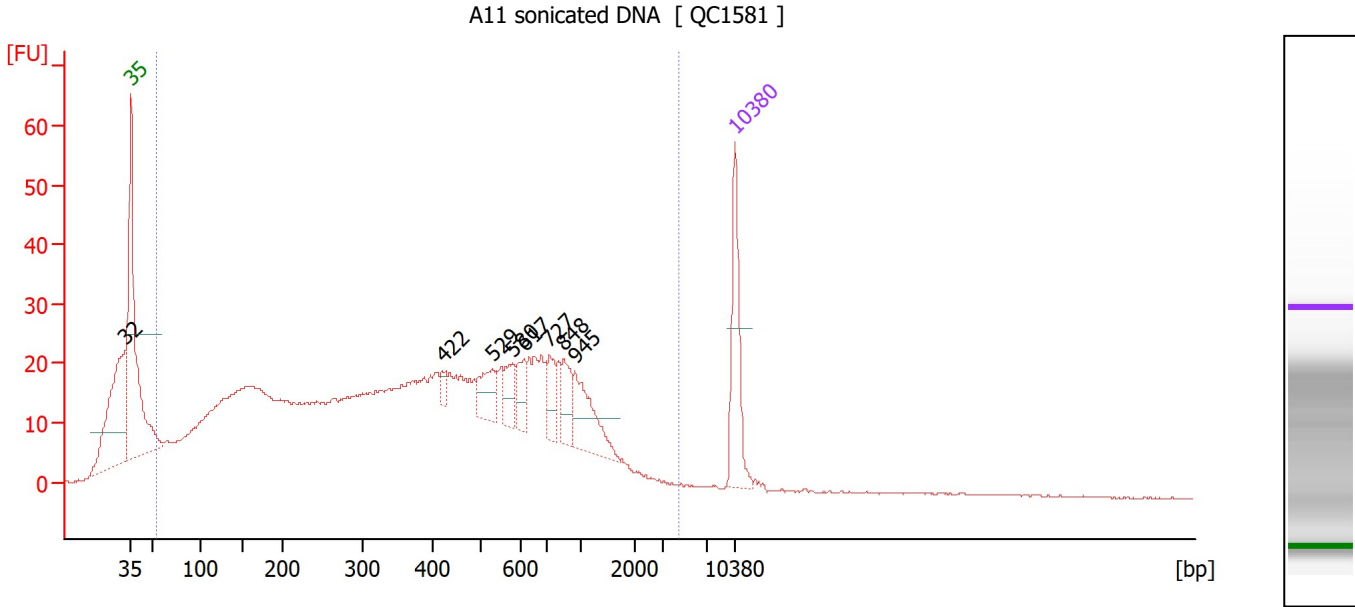
Region table for sample 10 : A10 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
72	2,778	315.5	94	448	69.0	597.84	3,488.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad

Created: 8/18/2023 8:58:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : A11 sonicated DNA

Number of peaks found: 8 Corr. Area 1: 1,104.5
 Noise: 0.2

Peak table for sample 11 : A11 sonicated DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	422	12.48	44.9	
4	529	39.67	113.7	
5	580	29.94	78.2	
6	617	30.15	74.0	
7	727	31.52	65.7	
8	848	34.08	60.9	
9	945	65.40	104.8	
10	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : A11 sonicated DNA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
55	4,471	1,104.5	90	488	84.1	2,635.59	17,711.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad

Created: 8/18/2023 8:58:47 AM
Modified: 8/18/2023 9:41:30 AM

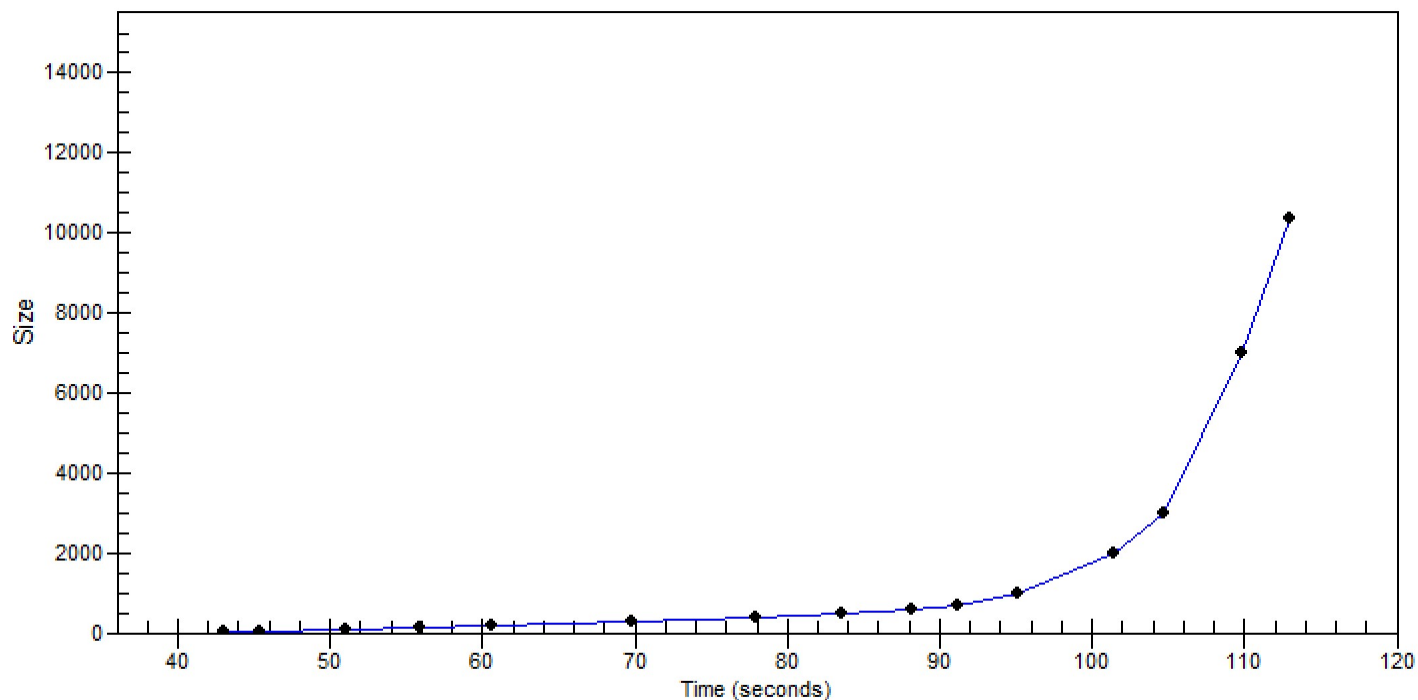
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad

Created: 8/18/2023 8:58:47 AM
Modified: 8/18/2023 9:41:30 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad

Created: 8/18/2023 8:58:47 AM
 Modified: 8/18/2023 9:41:30 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		8/18/2023 9:40:10 AM	(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\2023-08-18\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-08-18_001.xad)		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/18/2023 8:58:54 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB