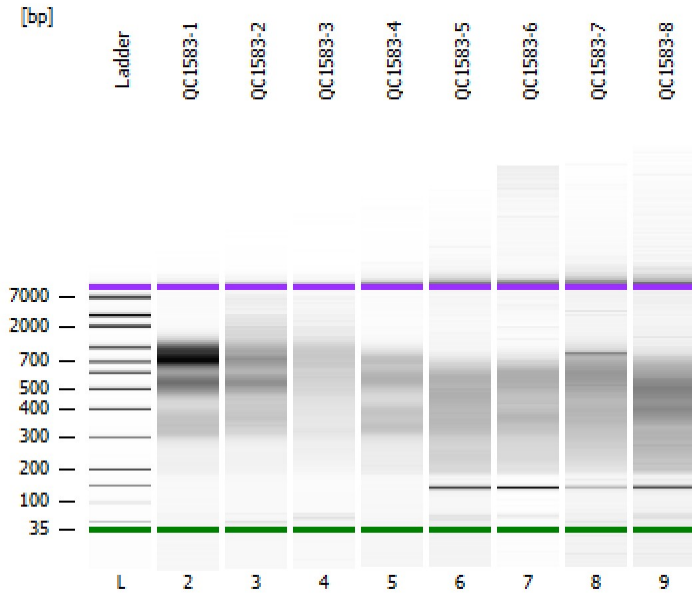


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
Modified: 8/18/2023 4:33:30 PM

Electrophoresis File Run Summary



Instrument Information:

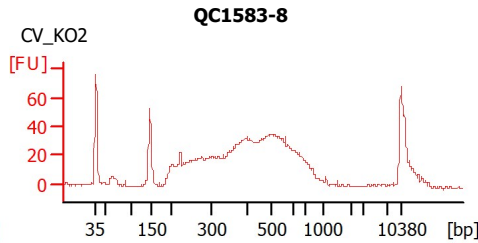
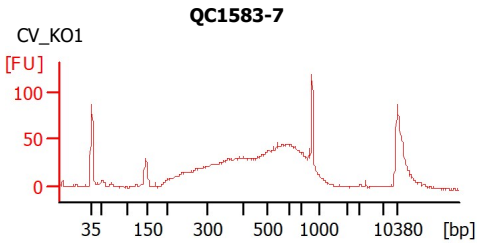
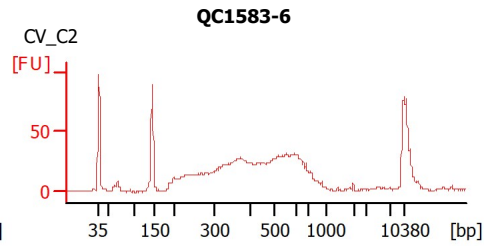
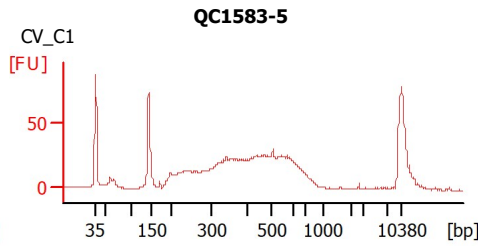
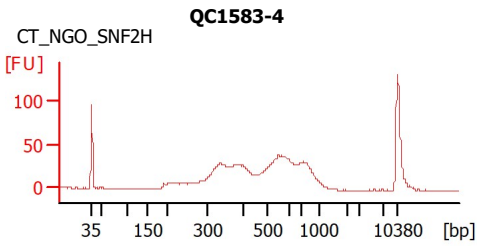
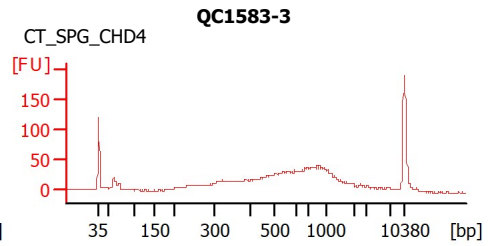
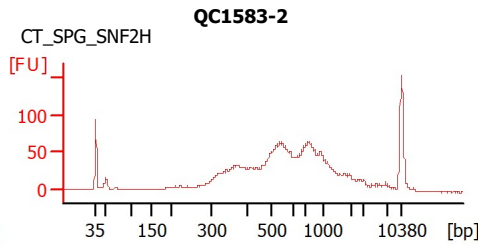
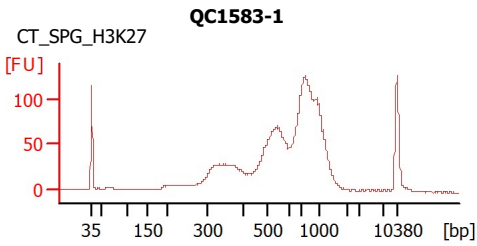
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
QC1583-1	CT_SPG_H3K27	<input type="checkbox"/>	✓			
QC1583-2	CT_SPG_SNF2H	<input type="checkbox"/>	✓			
QC1583-3	CT_SPG_CHD4	<input type="checkbox"/>	✓			
QC1583-4	CT_NGO_SNF2H	<input type="checkbox"/>	✓			
QC1583-5	CV_C1	<input type="checkbox"/>	✓			
QC1583-6	CV_C2	<input type="checkbox"/>	✓			
QC1583-7	CV_KO1	<input type="checkbox"/>	✓			
QC1583-8	CV_KO2	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
Modified: 8/18/2023 4:33:30 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

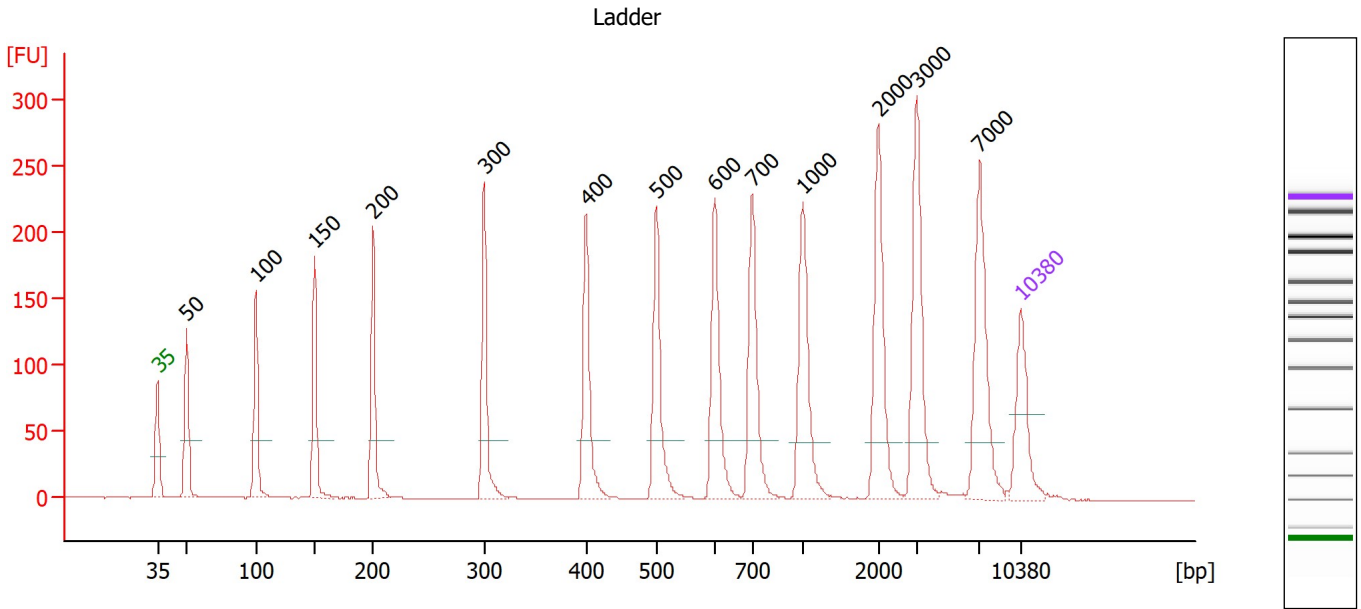
Ladder

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:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

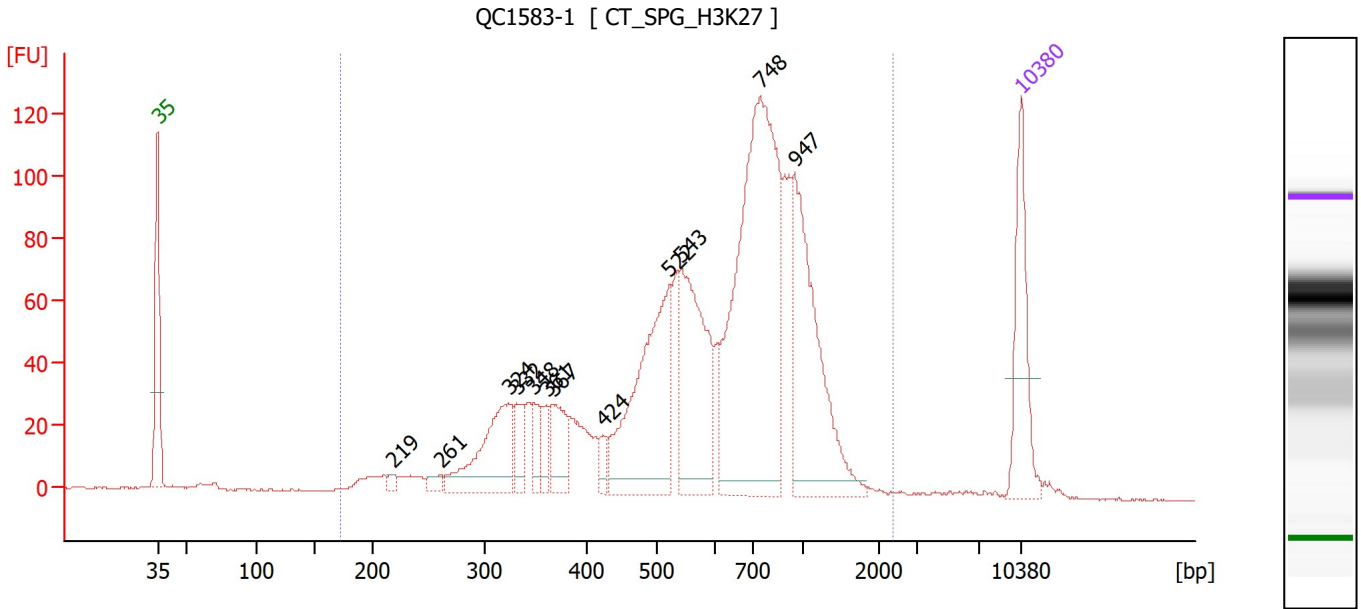
Peak table for Ladder

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: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : QC1583-1

Number of peaks found: 12 Corr. Area 1: 1,882.1
 Noise: 0.3

Peak table for sample 2 : QC1583-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	7.62	52.8	
3	261	11.38	66.1	
4	324	120.29	562.3	
5	332	33.62	153.5	
6	348	25.55	111.1	
7	361	21.22	89.1	
8	367	51.36	212.3	
9	424	13.54	48.4	
10	522	218.73	635.1	
11	543	176.37	492.2	
12	748	442.22	896.1	
13	947	198.52	317.5	
14	10,380	75.00	10.9	Upper Marker

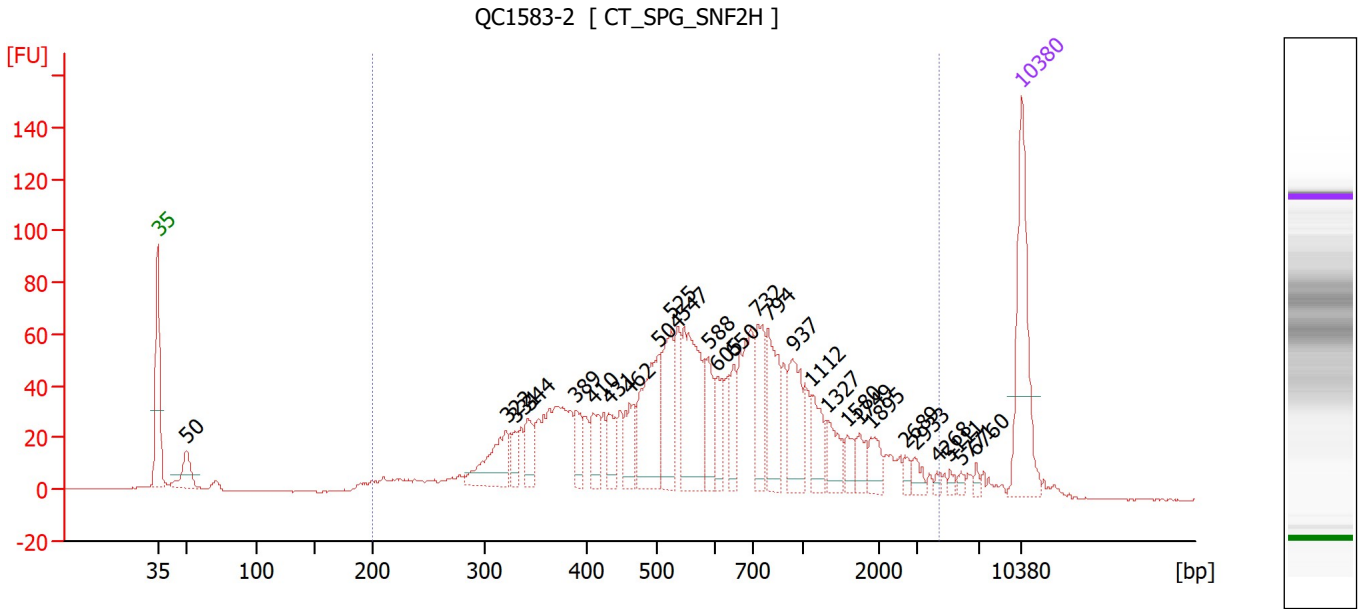
Region table for sample 2 : QC1583-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
173	2,398	1,882.1	99	672	41.5	1,576.63	4,569.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

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 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : QC1583-2

Number of peaks found: 28 Corr. Area 1: 1,640.8
 Noise: 0.3

Peak table for sample 3 : QC1583-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	32.12	974.5	
3	322	52.76	248.6	
4	331	16.44	75.3	
5	344	22.89	100.9	
6	389	22.57	87.8	
7	410	23.93	88.4	
8	431	22.22	78.1	
9	462	30.93	101.5	
10	504	83.70	251.9	
11	525	56.32	162.5	
12	547	91.18	252.6	
13	588	31.68	81.6	
14	605	23.14	57.9	
15	650	23.28	54.3	
16	732	42.66	88.2	
17	794	54.43	103.9	
18	937	46.13	74.6	
19	1,112	26.13	35.6	
20	1,327	20.24	23.1	
21	1,580	11.13	10.7	
22	1,749	13.06	11.3	
23	1,895	15.01	12.0	
24	2,689	4.82	2.7	
25	2,933	7.80	4.0	
26	4,268	2.80	1.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : QC1583-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,111	2.93	0.9	
28	5,771	3.17	0.8	
29	6,760	3.09	0.7	
30	10,380	75.00	10.9	Upper Marker

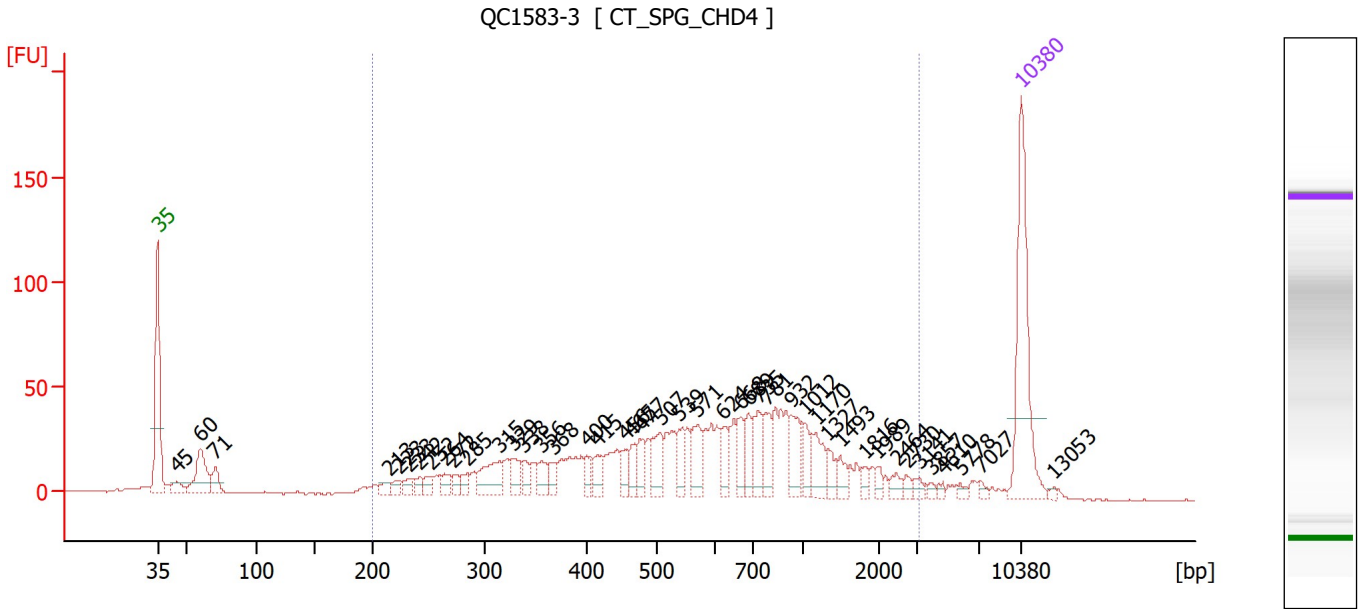
Region table for sample 3 : QC1583-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	4,355	1,640.8	93	766	75.2	1,203.16	3,559.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : QC1583-3

Number of peaks found: 44 Corr. Area 1: 1,078.8
 Noise: 0.3

Peak table for sample 4 : QC1583-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	10.68	358.7	
3	60	43.21	1,092.6	
4	71	15.78	338.5	
5	213	6.04	42.9	
6	223	6.42	43.7	
7	233	6.75	44.0	
8	242	6.42	40.2	
9	252	8.09	48.6	
10	264	8.82	50.6	
11	272	7.06	39.3	
12	285	7.23	38.4	
13	315	28.77	138.5	
14	329	14.29	65.9	
15	338	9.40	42.1	
16	356	12.46	53.0	
17	368	8.65	35.7	
18	400	9.63	36.5	
19	415	11.23	41.0	
20	456	10.95	36.4	
21	465	12.81	41.7	
22	477	13.91	44.2	
23	507	22.13	66.2	
24	539	17.73	49.8	
25	571	21.98	58.4	
26	624	13.75	33.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : QC1583-3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	668	15.64	35.5	
28	689	16.00	35.2	
29	735	20.02	41.3	
30	781	19.44	37.7	
31	932	21.33	34.7	
32	1,012	14.34	21.5	
33	1,170	17.92	23.2	
34	1,327	8.41	9.6	
35	1,493	8.08	8.2	
36	1,816	4.44	3.7	
37	1,989	4.22	3.2	
38	2,464	5.11	3.1	
39	2,730	3.76	2.1	
40	3,141	3.96	1.9	
41	3,857	2.41	0.9	
42	4,610	2.13	0.7	
43	5,778	2.39	0.6	
44	7,027	2.63	0.6	
45	10,380	75.00	10.9	Upper Marker
46	13,053	0.00	0.0	

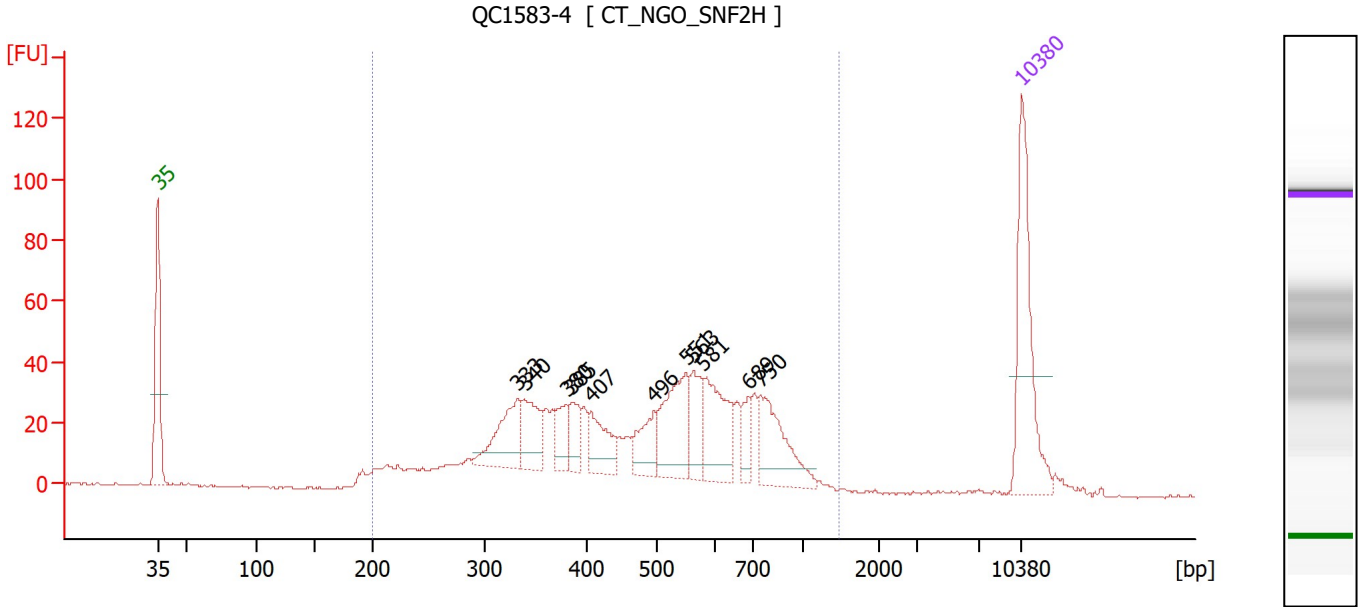
Region table for sample 4 : QC1583-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	3,181	1,078.8	88	736	68.0	655.61	2,050.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : QC1583-4

Number of peaks found: 11 Corr. Area 1: 933.4
 Noise: 0.3

Peak table for sample 5 : QC1583-4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	333	52.74	240.1	
3	340	41.39	184.7	
4	380	23.52	93.8	
5	385	21.13	83.0	
6	407	33.82	125.9	
7	496	31.83	97.1	
8	551	63.21	173.9	
9	563	30.90	83.1	
10	581	57.34	149.5	
11	689	15.87	34.9	
12	750	56.05	113.3	
13	10,380	75.00	10.9	Upper Marker

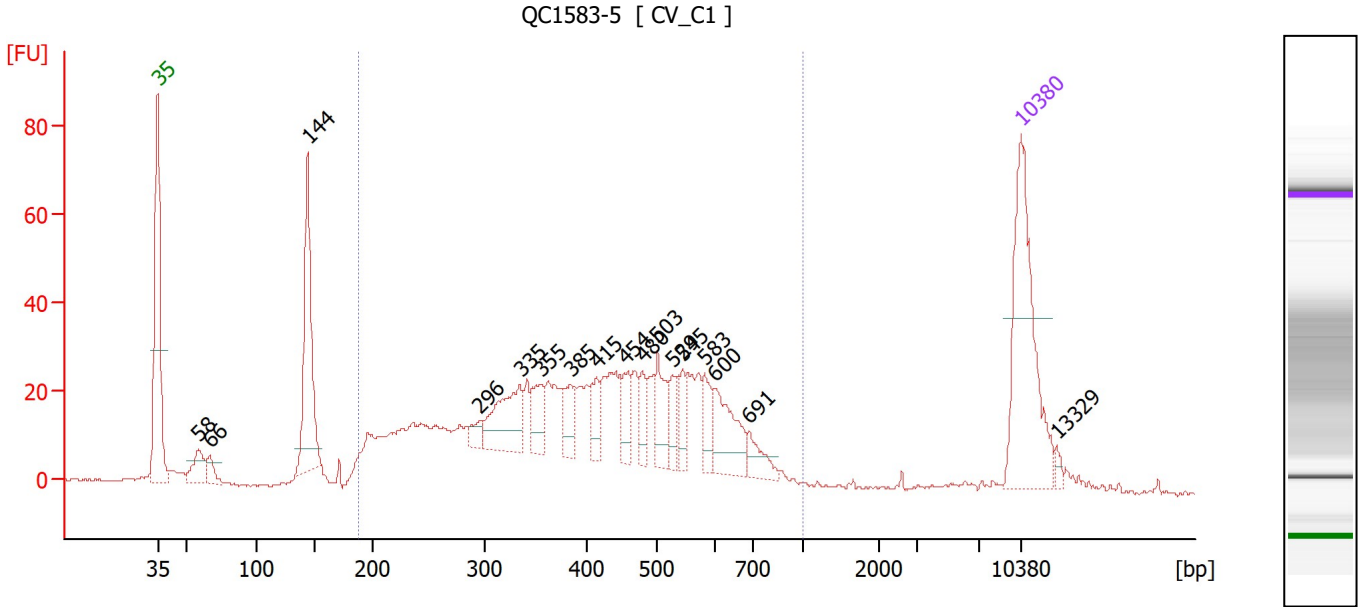
Region table for sample 5 : QC1583-4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,475	933.4	97	508	37.0	703.27	2,532.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : QC1583-5

Number of peaks found: 17 Corr. Area 1: 834.6
 Noise: 0.3

Peak table for sample 6 : QC1583-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	20.60	535.7	
3	66	11.85	270.0	
4	144	98.08	1,031.8	
5	296	8.44	43.2	
6	335	43.32	196.0	
7	355	19.11	81.6	
8	385	15.98	62.9	
9	415	15.07	55.0	
10	454	17.62	58.8	
11	480	13.42	42.4	
12	503	23.19	69.9	
13	529	12.92	37.0	
14	545	13.21	36.7	
15	583	15.46	40.2	
16	600	33.48	84.6	
17	691	13.17	28.9	
18	10,380	75.00	10.9	Upper Marker
19	13,329	0.00	0.0	

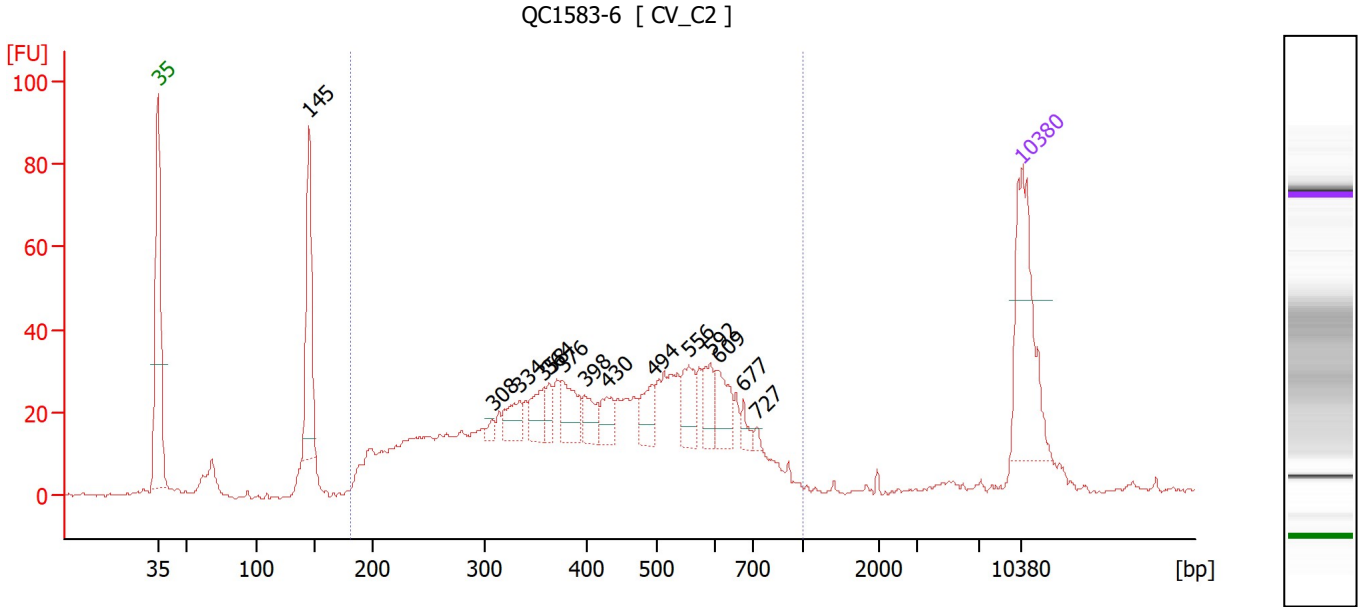
Region table for sample 6 : QC1583-5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
188	1,000	834.6	81	429	33.4	706.77	2,972.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : QC1583-6

Number of peaks found: 14 Corr. Area 1: 765.1
 Noise: 0.5

Peak table for sample 7 : QC1583-6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	145	104.67	1,091.8	
3	308	4.83	23.8	
4	334	20.77	94.1	
5	358	20.58	87.1	
6	364	13.62	56.7	
7	376	27.39	110.3	
8	398	16.45	62.7	
9	430	18.79	66.2	
10	494	21.04	64.5	
11	556	26.09	71.2	
12	592	20.15	51.6	
13	609	25.30	62.9	
14	677	7.43	16.6	
15	727	3.45	7.2	
16	10,380	75.00	10.9	Upper Marker

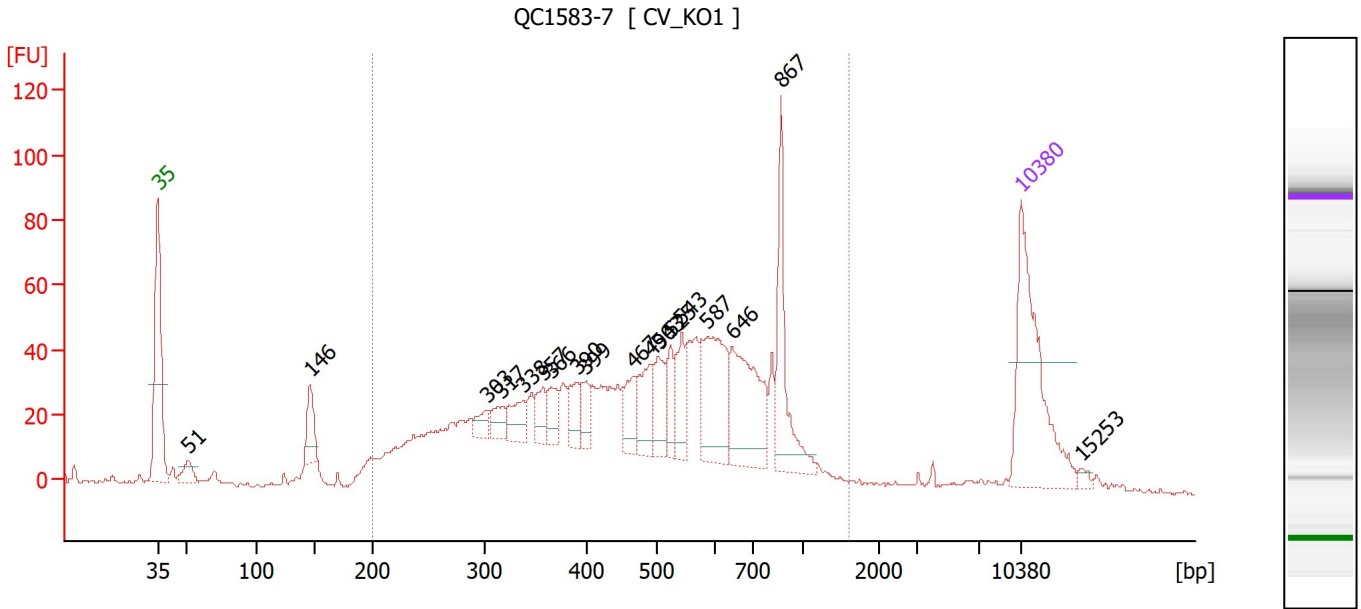
Region table for sample 7 : QC1583-6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
181	1,000	765.1	87	435	32.5	832.24	3,444.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : QC1583-7

Number of peaks found: 18 Corr. Area 1: 1,301.9
 Noise: 0.8

Peak table for sample 8 : QC1583-7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	13.37	395.0	
3	146	25.13	261.1	
4	303	9.40	47.0	
5	317	11.81	56.4	
6	338	17.75	79.6	
7	357	14.11	59.8	
8	366	13.94	57.7	
9	390	16.73	65.0	
10	399	13.28	50.4	
11	467	19.93	64.6	
12	494	27.47	84.3	
13	503	24.44	73.6	
14	525	18.96	54.7	
15	543	21.66	60.5	
16	587	59.23	152.9	
17	646	65.95	154.8	
18	867	48.34	84.5	
19	10,380	75.00	10.9	Upper Marker
20	15,253	0.00	0.0	

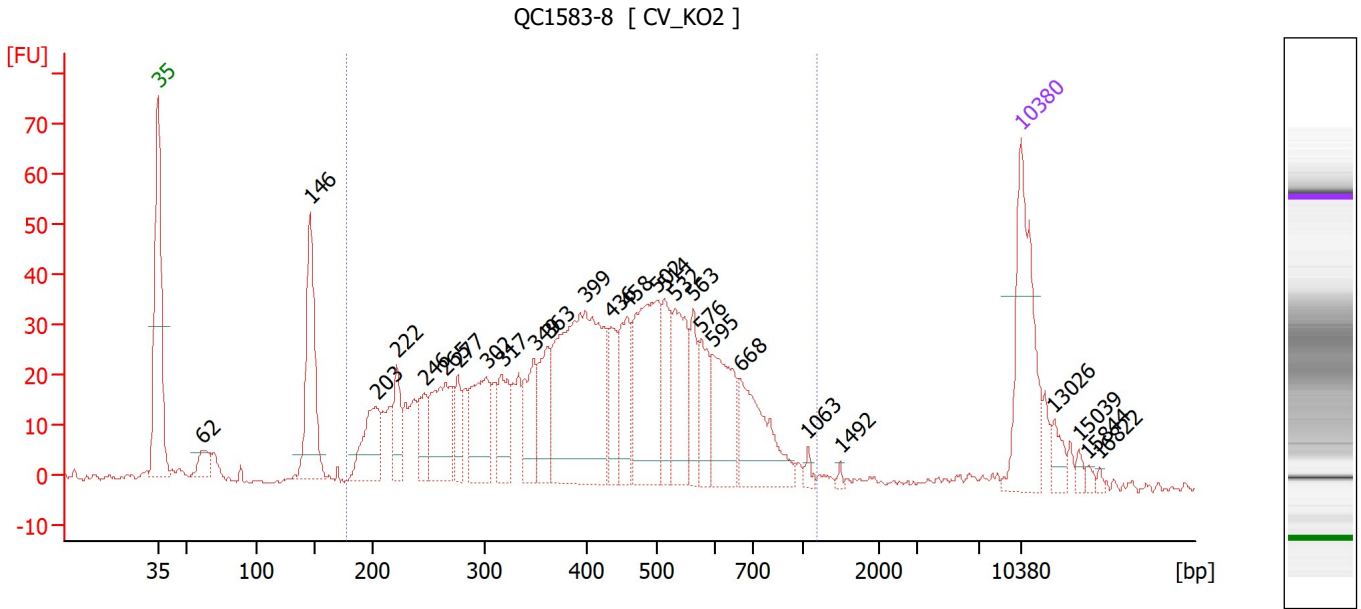
Region table for sample 8 : QC1583-7

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,598	1,301.9	88	520	41.3	896.91	3,281.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : QC1583-8

Number of peaks found: 27 Corr. Area 1: 1,032.5
 Noise: 0.6

Peak table for sample 9 : QC1583-8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	62	18.80	463.0	
3	146	113.11	1,176.2	
4	203	54.21	405.3	
5	222	32.62	222.9	
6	246	26.97	165.9	
7	265	70.42	402.1	
8	277	26.76	146.5	
9	302	63.20	316.9	
10	317	37.33	178.2	
11	349	42.15	183.0	
12	363	40.28	168.3	
13	399	202.38	768.1	
14	436	31.52	109.5	
15	458	47.10	155.7	
16	502	108.24	326.8	
17	514	34.30	101.1	
18	532	60.25	171.6	
19	563	27.98	75.3	
20	576	33.28	87.5	
21	595	60.03	152.7	
22	668	65.87	149.4	
23	1,063	3.86	5.5	
24	1,492	1.99	2.0	
25	10,380	75.00	10.9	Upper Marker
26	13,026	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : QC1583-8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	15,039	0.00	0.0	
28	15,844	0.00	0.0	
29	16,822	0.00	0.0	

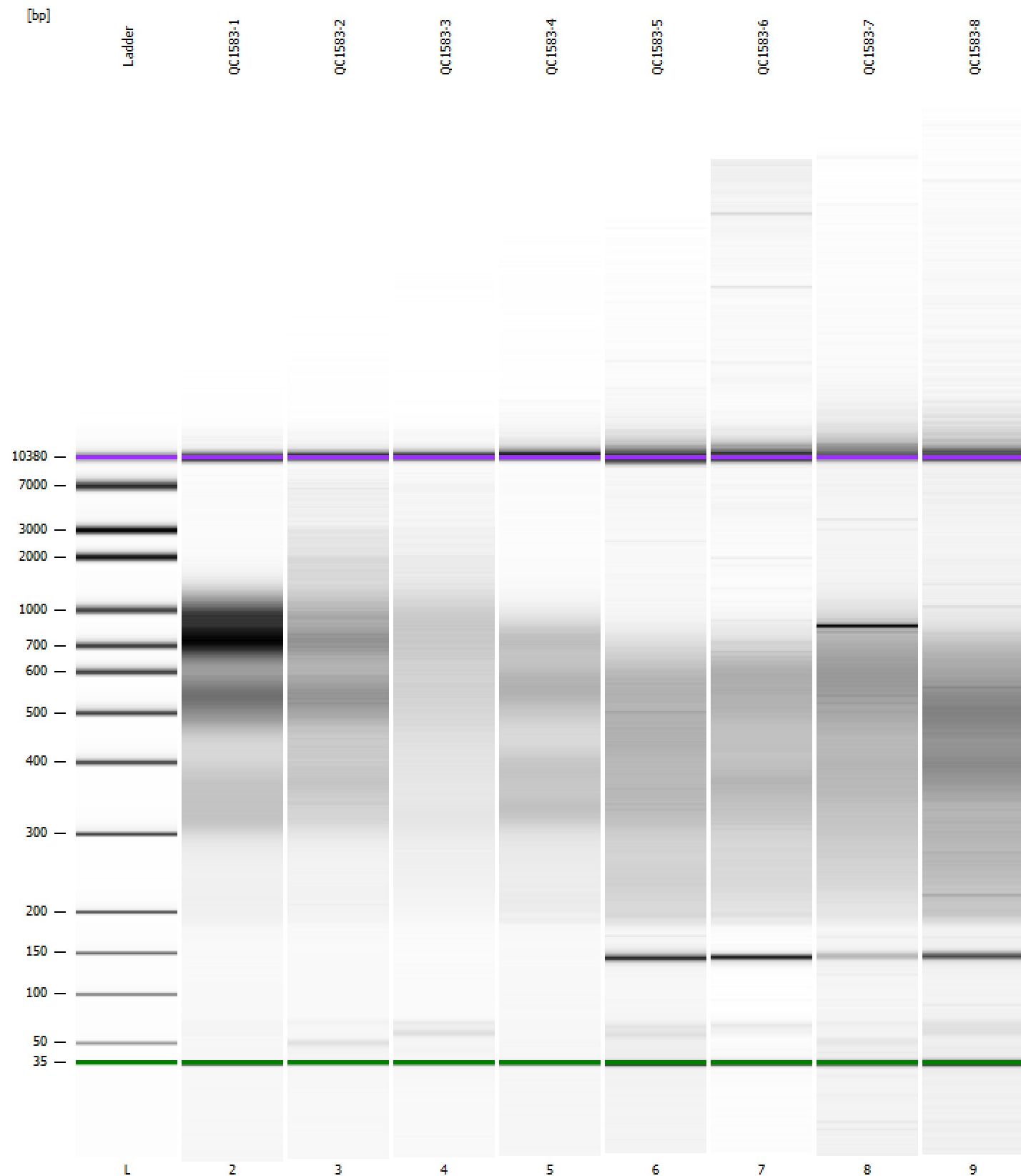
Region table for sample 9 : QC1583-8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	1,182	1,032.5	84	439	36.0	1,242.57	5,187.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
Modified: 8/18/2023 4:33:30 PM

Gel Image

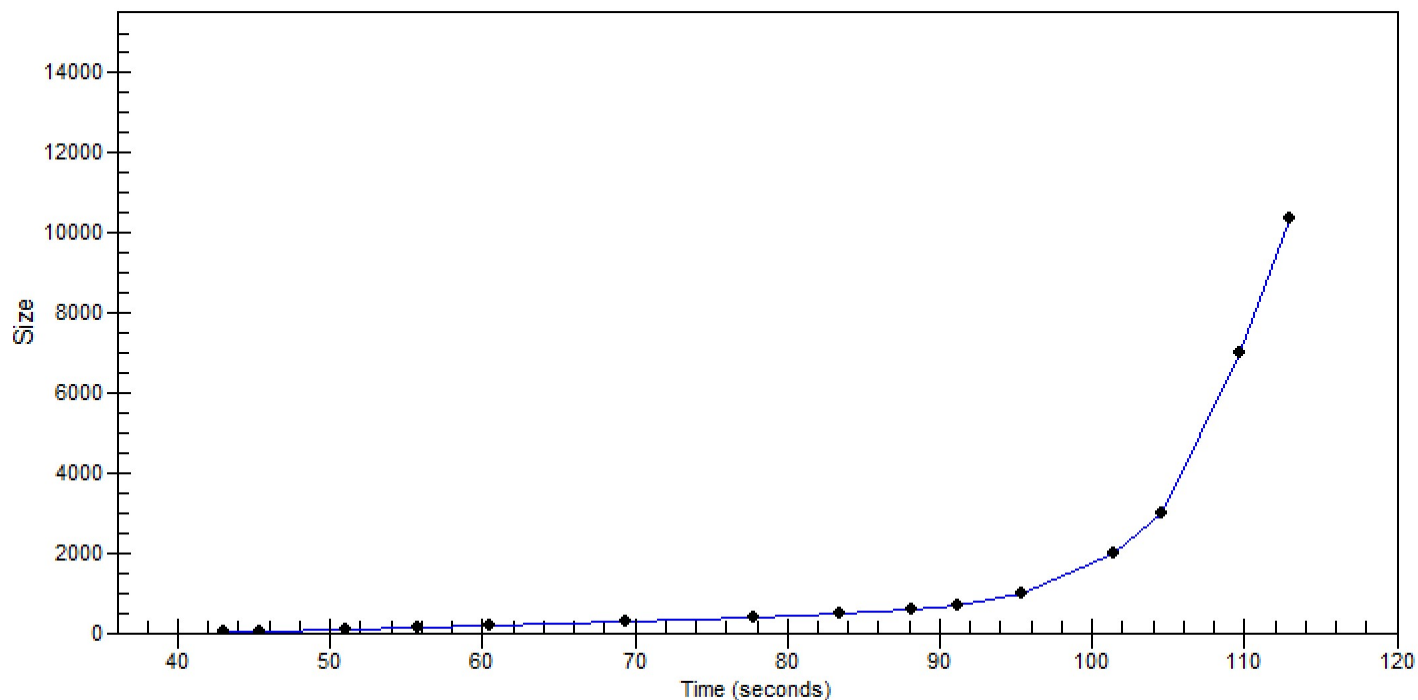


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
Modified: 8/18/2023 4:33:30 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-18\QC1583.xad

Created: 8/18/2023 2:50:44 PM
 Modified: 8/18/2023 4:33:30 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		8/18/2023 3:31:13 PM	(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_003.xad)		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/18/2023 2:50:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB