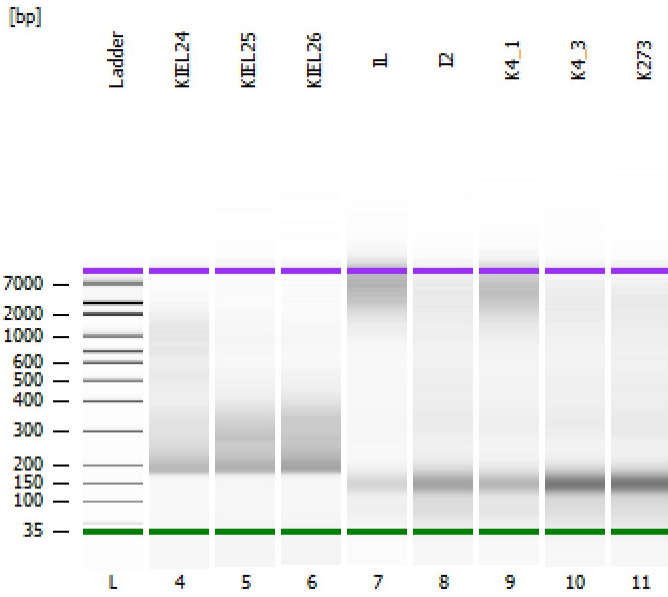


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
Modified: 9/1/2020 4:51:16 PM

Electrophoresis File Run Summary



Instrument Information:

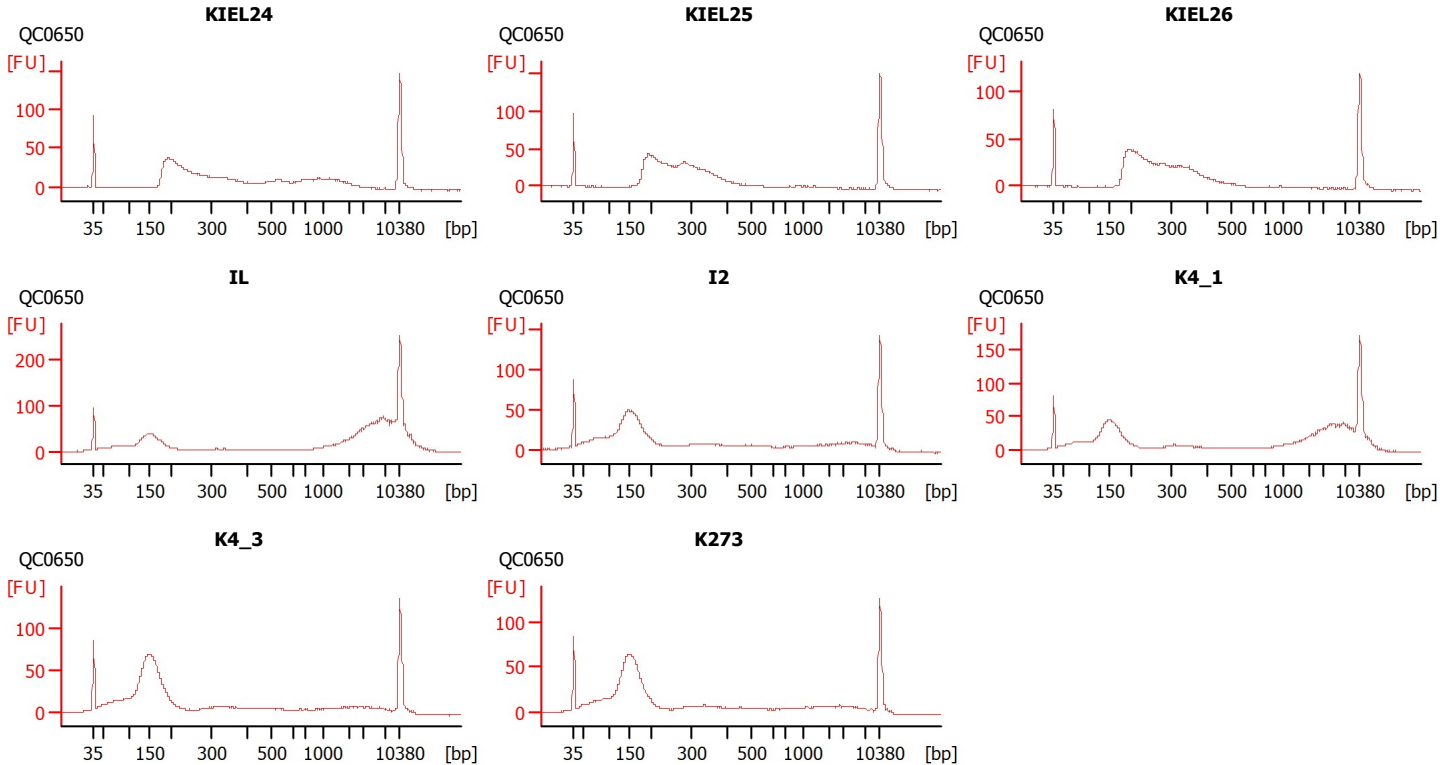
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KIEL24	QC0650	<input type="checkbox"/>	✓			
KIEL25	QC0650	<input type="checkbox"/>	✓			
KIEL26	QC0650	<input type="checkbox"/>	✓			
IL	QC0650	<input type="checkbox"/>	✓			
I2	QC0650	<input type="checkbox"/>	✓			
K4_1	QC0650	<input type="checkbox"/>	✓			
K4_3	QC0650	<input type="checkbox"/>	✓			
K273	QC0650	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 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

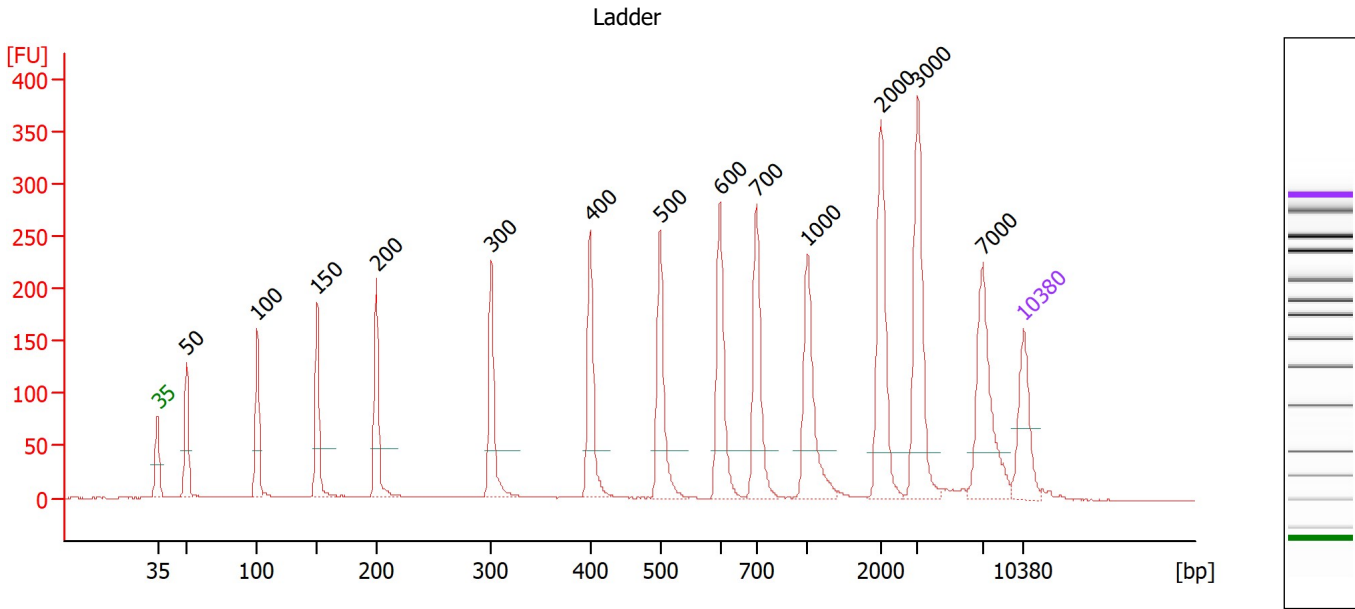
Ladder

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:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

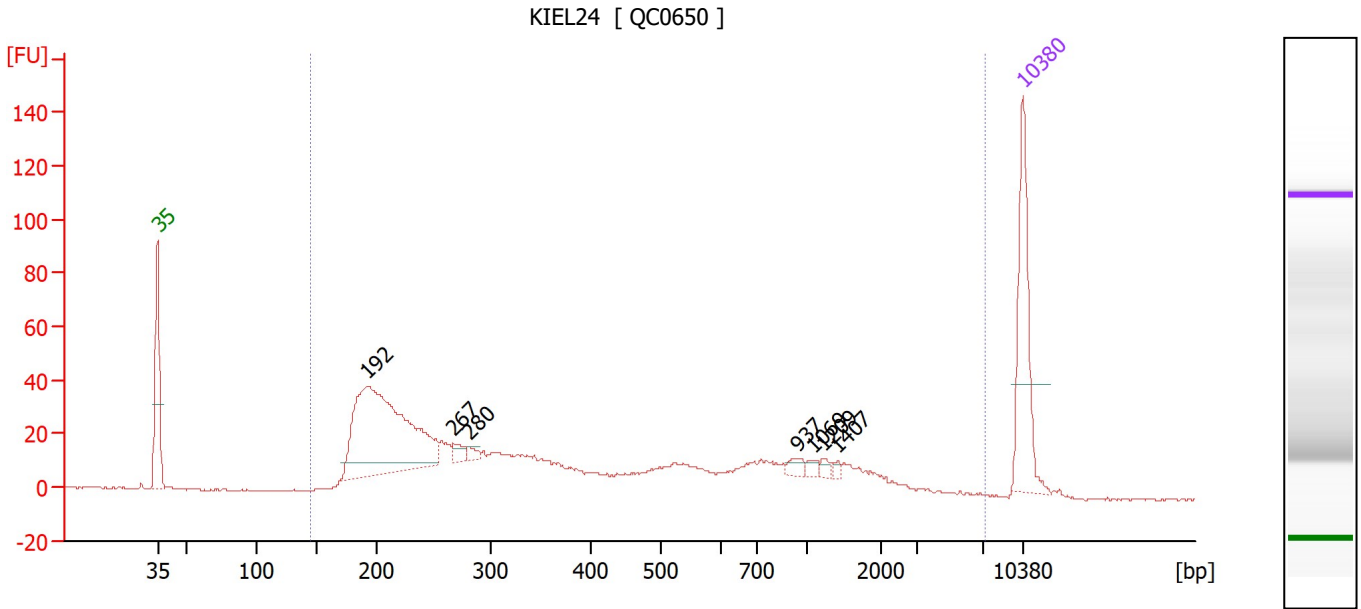
Peak table for Ladder

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:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KIEL24

Number of peaks found: 7 Corr. Area 1: 898.5
 Noise: 0.4

Peak table for sample 4 : KIEL24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	192	311.53	2,460.5	
3	267	11.37	64.5	
4	280	5.97	32.2	
5	937	7.04	11.4	
6	1,069	4.79	6.8	
7	1,209	4.09	5.1	
8	1,407	3.04	3.3	
9	10,380	75.00	10.9	Upper Marker

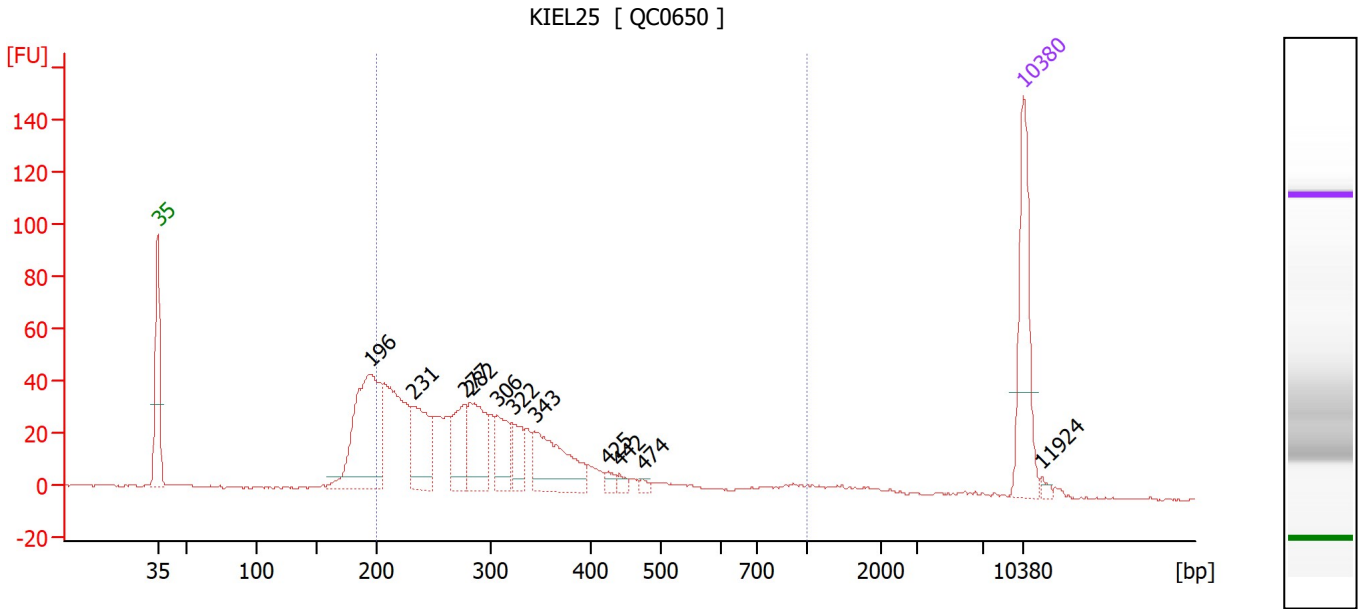
Region table for sample 4 : KIEL24

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
144	7,165	898.5	99	589	100.0	842.64	4,428.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KIEL25

Number of peaks found: 11 Corr. Area 1: 767.1
 Noise: 0.5

Peak table for sample 5 : KIEL25

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	196	187.06	1,447.0	
3	231	80.62	528.3	
4	277	58.71	321.2	
5	282	72.97	392.4	
6	306	41.80	207.2	
7	322	30.42	143.1	
8	343	85.71	378.3	
9	425	6.94	24.7	
10	442	5.55	19.0	
11	474	4.08	13.0	
12	10,380	75.00	10.9	Upper Marker
13	11,924	0.00	0.0	

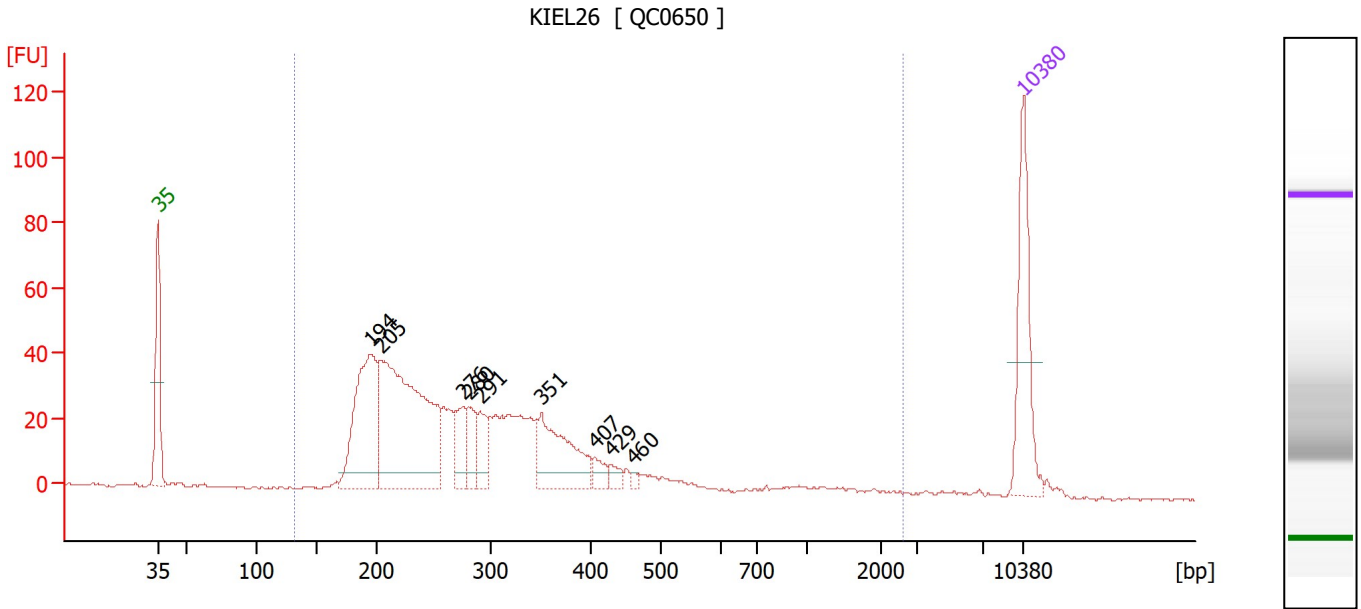
Region table for sample 5 : KIEL25

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	767.1	80	311	37.0	683.10	3,699.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KIEL26

Number of peaks found: 9 Corr. Area 1: 830.0
 Noise: 0.4

Peak table for sample 6 : KIEL26

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	172.28	1,342.9	
3	205	318.91	2,361.6	
4	276	35.00	192.3	
5	280	30.47	164.8	
6	291	33.45	174.4	
7	351	91.41	394.8	
8	407	12.50	46.5	
9	429	9.31	32.9	
10	460	3.74	12.3	
11	10,380	75.00	10.9	Upper Marker

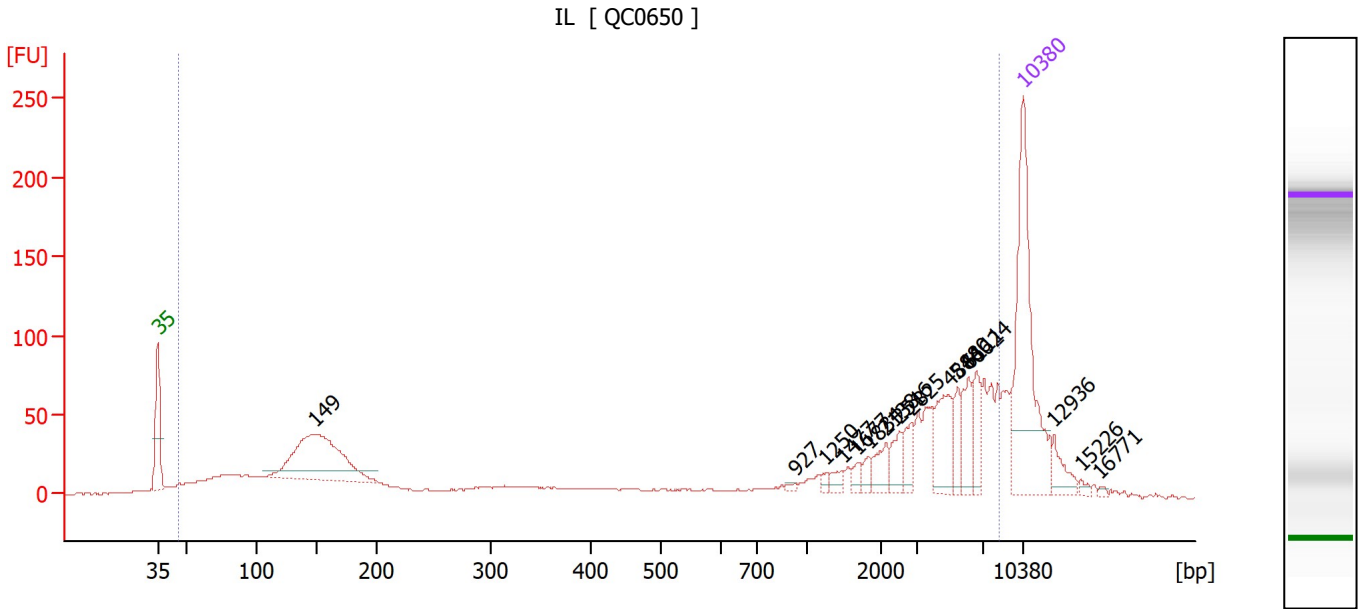
Region table for sample 6 : KIEL26

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	2,616	830.0	99	310	62.5	912.68	5,352.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : IL

Number of peaks found: 16 Corr. Area 1: 1,382.4
 Noise: 0.4

Peak table for sample 7 : IL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	149	109.65	1,117.4	
3	927	1.30	2.1	
4	1,250	2.25	2.7	
5	1,477	4.04	4.1	
6	1,677	3.66	3.3	
7	1,834	4.54	3.8	
8	2,138	9.60	6.8	
9	2,516	8.97	5.4	
10	2,825	9.68	5.2	
11	4,888	22.71	7.0	
12	5,440	10.43	2.9	
13	6,111	14.65	3.6	
14	6,624	12.93	3.0	
15	10,380	75.00	10.9	Upper Marker
16	12,936	0.00	0.0	
17	15,226	0.00	0.0	
18	16,771	0.00	0.0	

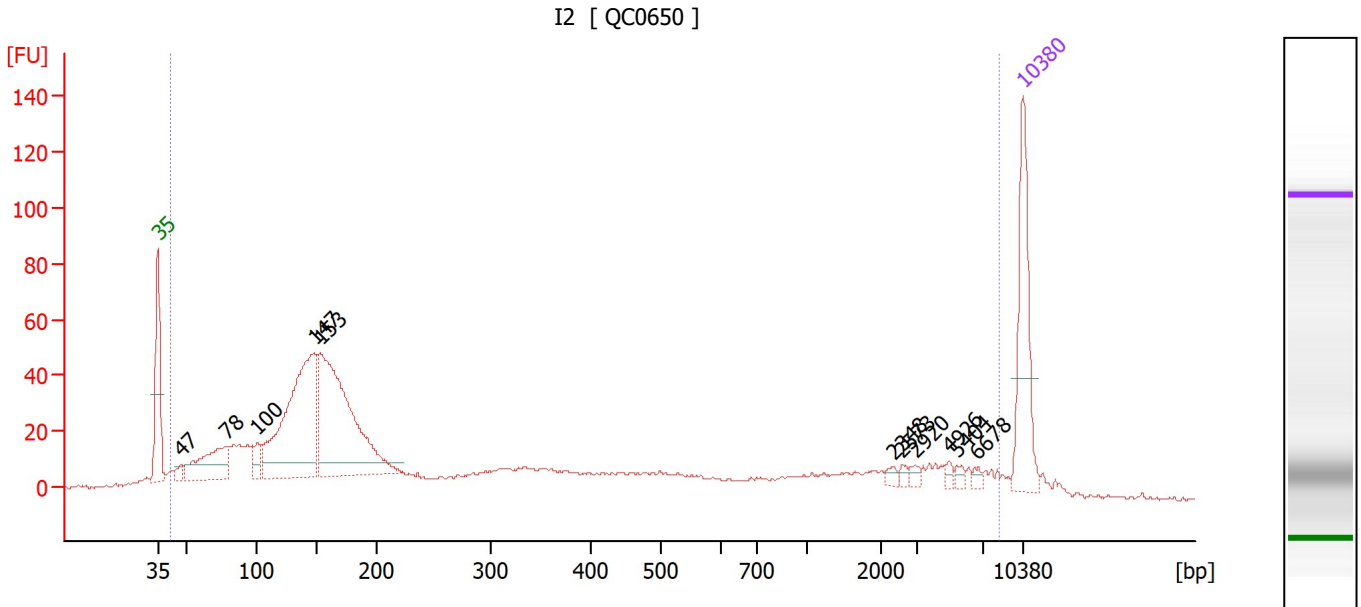
Region table for sample 7 : IL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
46	8,292	1,382.4	90	2,685	96.4	503.86	3,829.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : I2

Number of peaks found: 11 Corr. Area 1: 1,172.3
 Noise: 0.4

Peak table for sample 8 : I2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	11.02	356.9	
3	78	86.54	1,683.1	
4	100	21.09	320.4	
5	147	268.98	2,769.4	
6	153	294.94	2,928.7	
7	2,348	4.25	2.7	
8	2,573	3.67	2.2	
9	2,920	4.31	2.2	
10	4,926	4.00	1.2	
11	5,404	4.35	1.2	
12	6,678	3.96	0.9	
13	10,380	75.00	10.9	Upper Marker

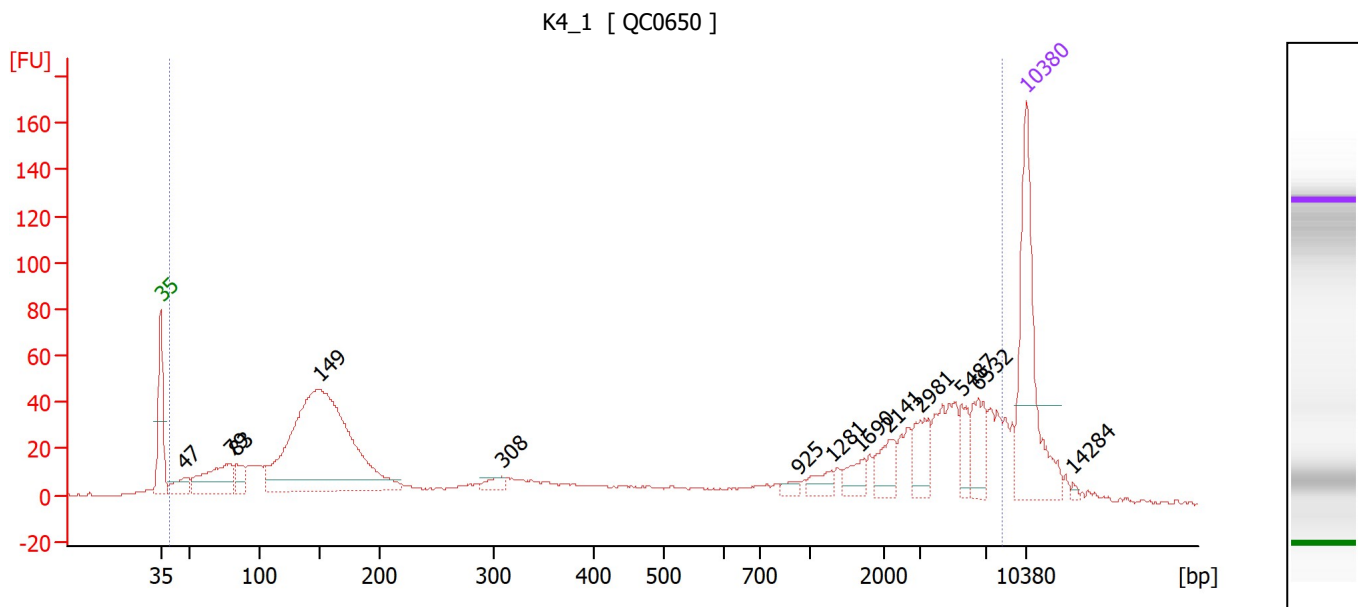
Region table for sample 8 : I2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
42	8,353	1,172.3	96	851	100.0	1,291.31	13,319.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : K4_1

Number of peaks found: 13 Corr. Area 1: 1,353.5
 Noise: 0.4

Peak table for sample 9 : K4_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	16.70	535.7	
3	79	52.81	1,009.5	
4	83	14.66	267.8	
5	149	323.65	3,293.6	
6	308	7.43	36.6	
7	925	4.00	6.5	
8	1,281	8.60	10.2	
9	1,690	10.89	9.8	
10	2,141	15.79	11.2	
11	2,981	17.88	9.1	
12	5,487	12.08	3.3	
13	6,532	20.32	4.7	
14	10,380	75.00	10.9	Upper Marker
15	14,284	0.00	0.0	

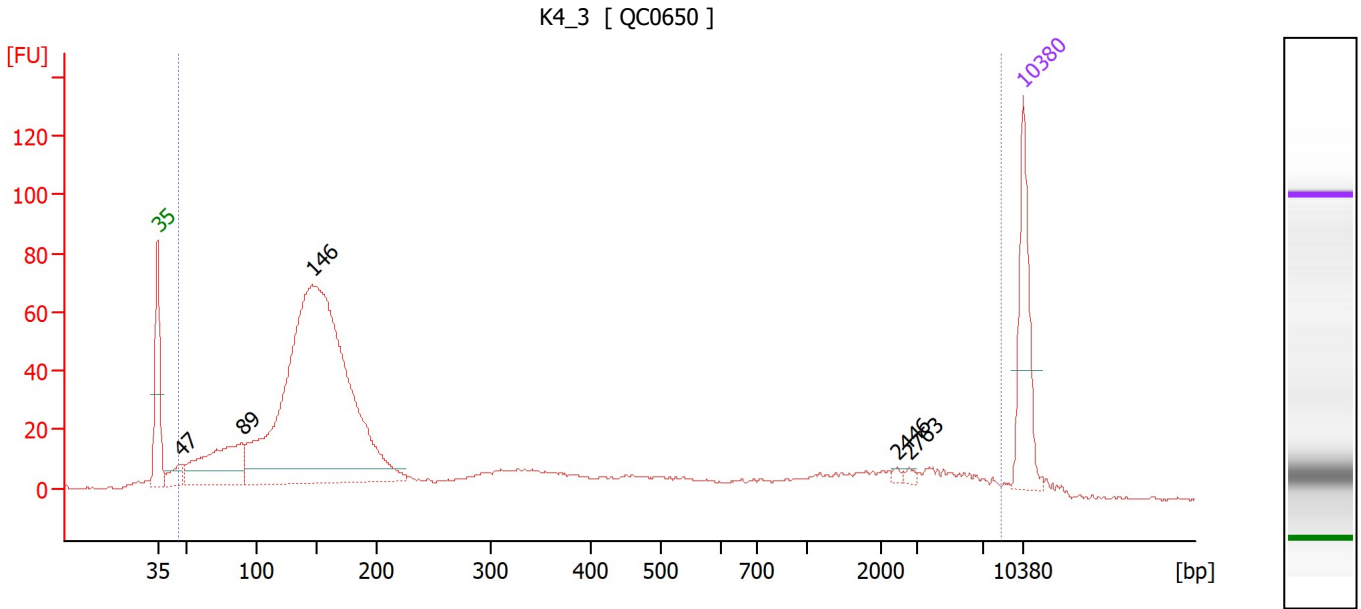
Region table for sample 9 : K4_1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
39	8,415	1,353.5	95	1,949	100.0	803.79	7,218.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : K4_3

Number of peaks found: 5 Corr. Area 1: 1,231.4
 Noise: 0.4

Peak table for sample 10 : K4_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	27.24	884.8	
3	89	155.02	2,641.7	
4	146	1,000.80	10,414.9	
5	2,446	3.36	2.1	
6	2,763	3.28	1.8	
7	10,380	75.00	10.9	Upper Marker

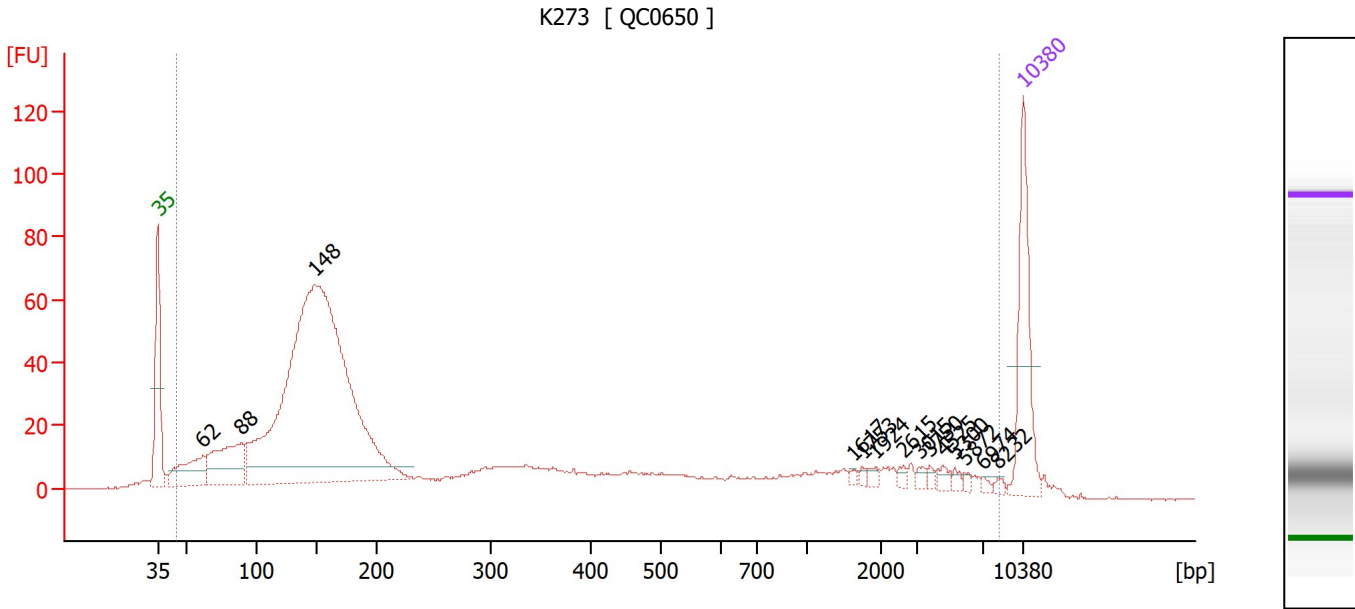
Region table for sample 10 : K4_3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
46	8,548	1,231.4	97	674	100.0	1,547.97	16,004.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
 Modified: 9/1/2020 4:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : K273

Number of peaks found: 14 Corr. Area 1: 1,227.3
 Noise: 0.3

Peak table for sample 11 : K273

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	62	68.30	1,672.0	
3	88	104.89	1,797.1	
4	148	929.96	9,505.0	
5	1,617	2.53	2.4	
6	1,753	2.79	2.4	
7	1,924	4.01	3.2	
8	2,615	3.69	2.1	
9	3,015	4.03	2.0	
10	3,750	3.62	1.5	
11	4,525	5.08	1.7	
12	5,300	3.90	1.1	
13	5,872	2.72	0.7	
14	6,974	2.75	0.6	
15	8,232	2.91	0.5	
16	10,380	75.00	10.9	Upper Marker

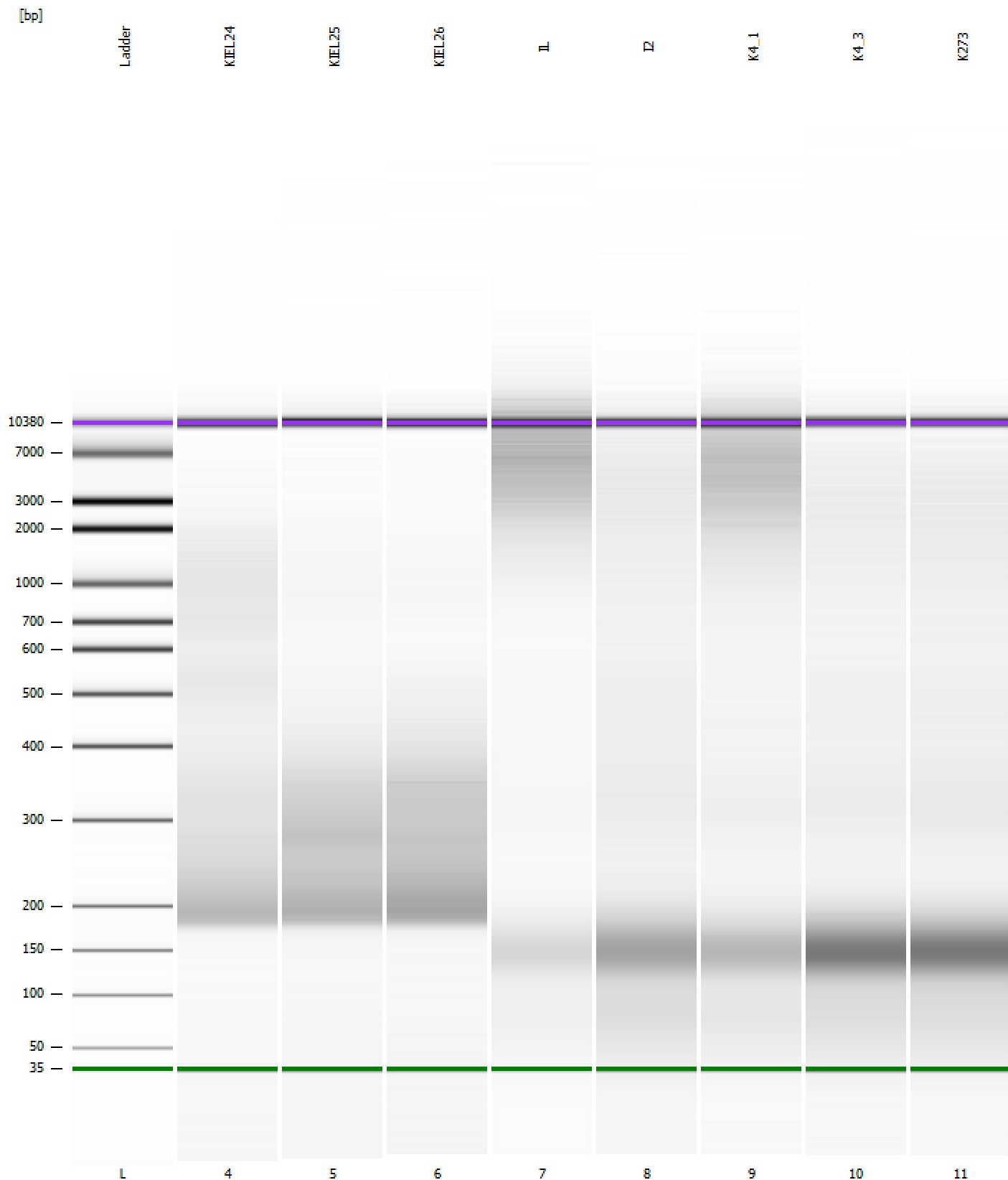
Region table for sample 11 : K273

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
44	8,394	1,227.3	97	690	100.0	1,564.92	15,954.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad

Created: 9/1/2020 10:03:42 AM
Modified: 9/1/2020 4:51:16 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 9/1/2020 10:03:42 AM
 Data Path: Z:\...lyzer1_High Sensitivity DNA Assay_2020-09-01_001_QC0650.xad Modified: 9/1/2020 4:51:16 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		9/1/2020 10:45:03 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-09-01\Bioanalyze r1_High Sensitivity DNA Assay_2020-09-01_001.xad)		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/1/2020 10:03:47 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB