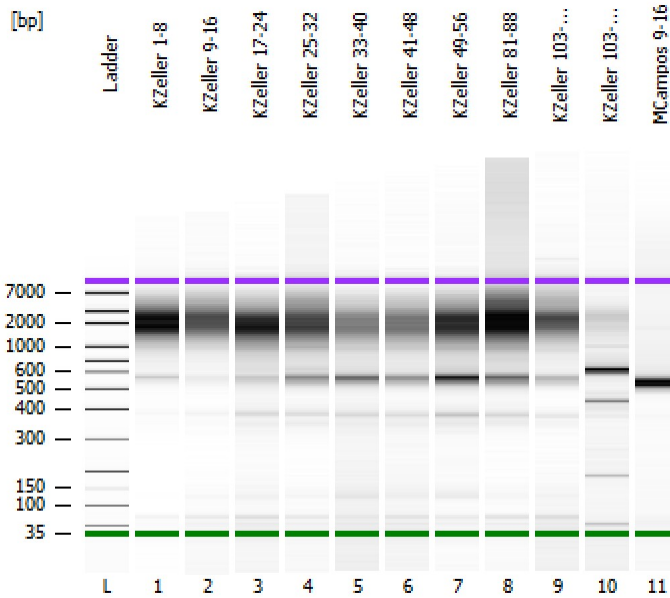


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
Modified: 5/1/2024 2:10:26 PM

Electrophoresis File Run Summary



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

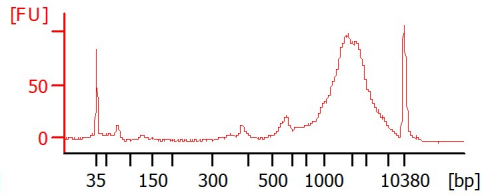
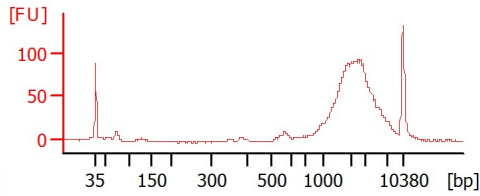
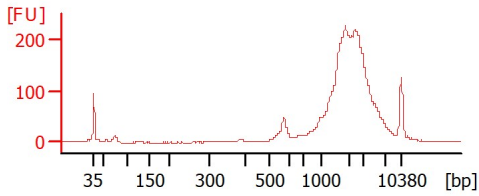
**Assay Information:**  
 Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
 Assay Class: High Sensitivity DNA Assay  
 Version: 1.03  
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

**Chip Information:**  
 Chip Lot #:  
 Reagent Kit Lot #:  
 Chip Comments:

KZeller 1-8

KZeller 9-16

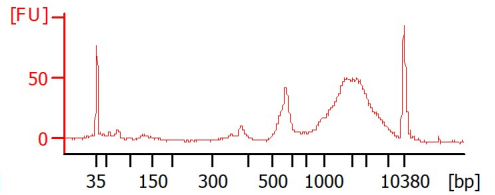
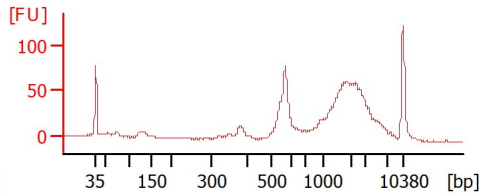
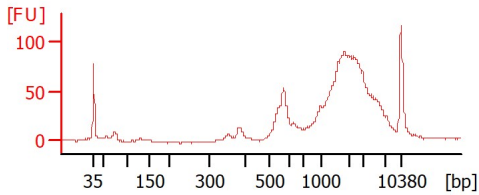
KZeller 17-24



KZeller 25-32

KZeller 33-40

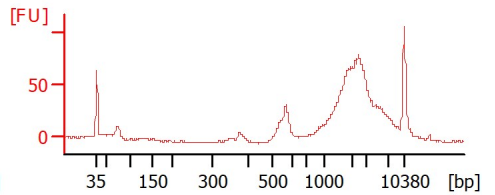
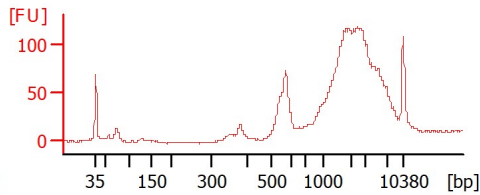
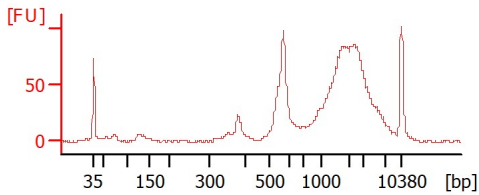
KZeller 41-48



KZeller 49-56

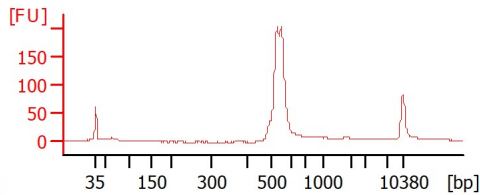
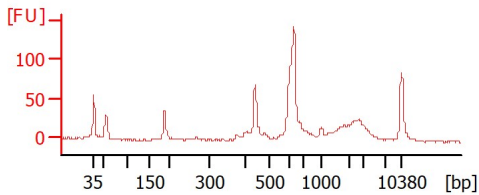
KZeller 81-88

KZeller 103-110



KZeller 103-110 Barcoded

MCampos 9-16



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KZeller 1-8		<input type="checkbox"/>		✓		
KZeller 9-16		<input type="checkbox"/>		✓		
KZeller 17-24		<input type="checkbox"/>		✓		
KZeller 25-32		<input type="checkbox"/>		✓		
KZeller 33-40		<input type="checkbox"/>		✓		
KZeller 41-48		<input type="checkbox"/>		✓		
KZeller 49-56		<input type="checkbox"/>		✓		
KZeller 81-88		<input type="checkbox"/>		✓		
KZeller 103-110		<input type="checkbox"/>		✓		
KZeller 103-110		<input type="checkbox"/>		✓		
MCampos 9-16		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 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

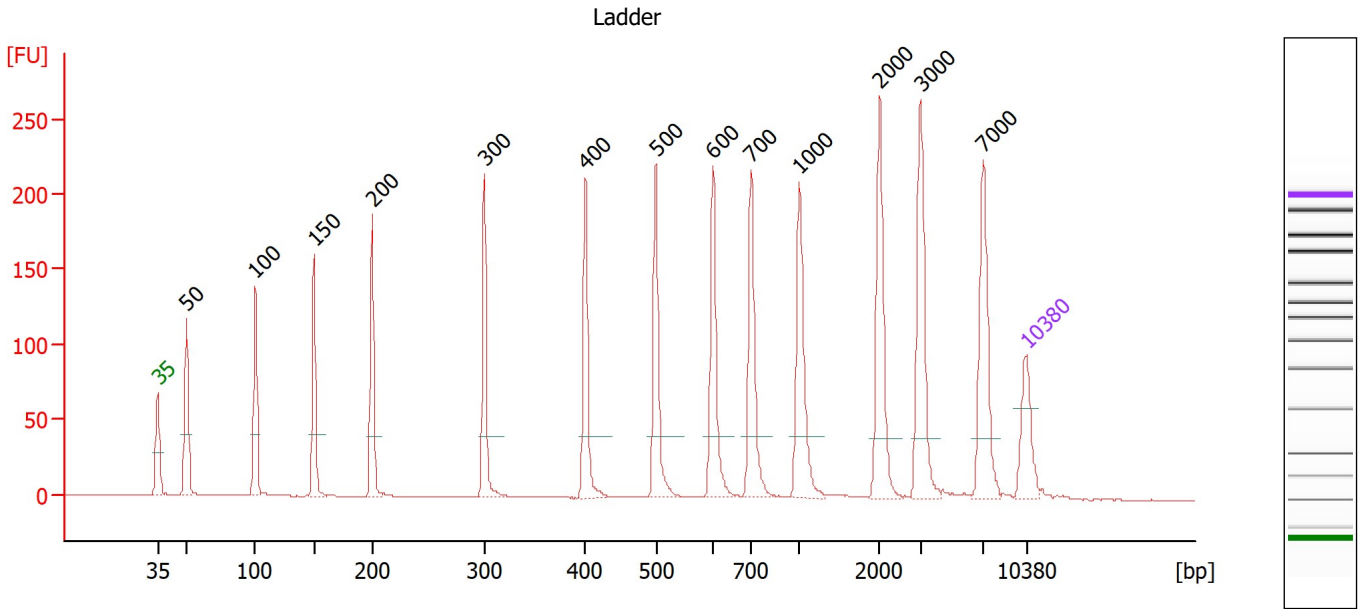
**Ladder**

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: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

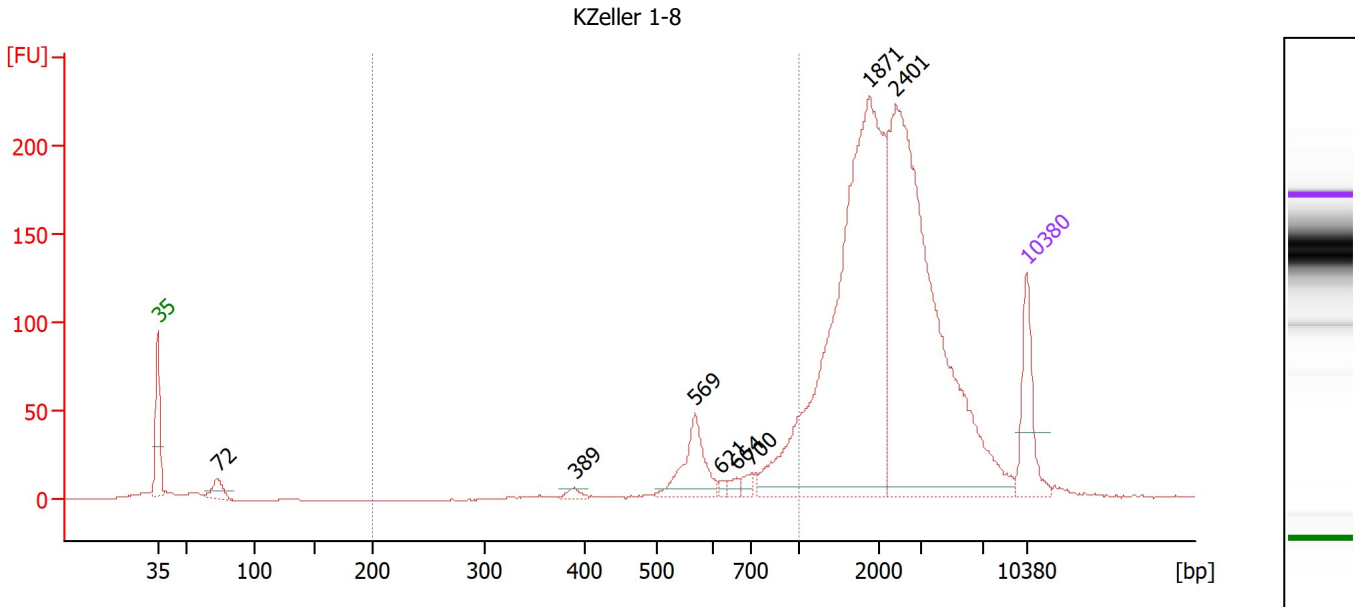
**Peak table for Ladder**

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: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : KZeller 1-8**

Number of peaks found: 8                      Corr. Area 1: 255.1  
 Noise: 0.3

**Peak table for sample 1 : KZeller 1-8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	72	35.82	748.9	
3	389	10.03	39.1	
4	569	92.99	247.8	
5	621	5.97	14.6	
6	664	10.33	23.6	
7	700	11.50	24.9	
8	1,871	753.16	609.8	
9	2,401	672.67	424.6	
10	10,380	75.00	10.9	Upper Marker

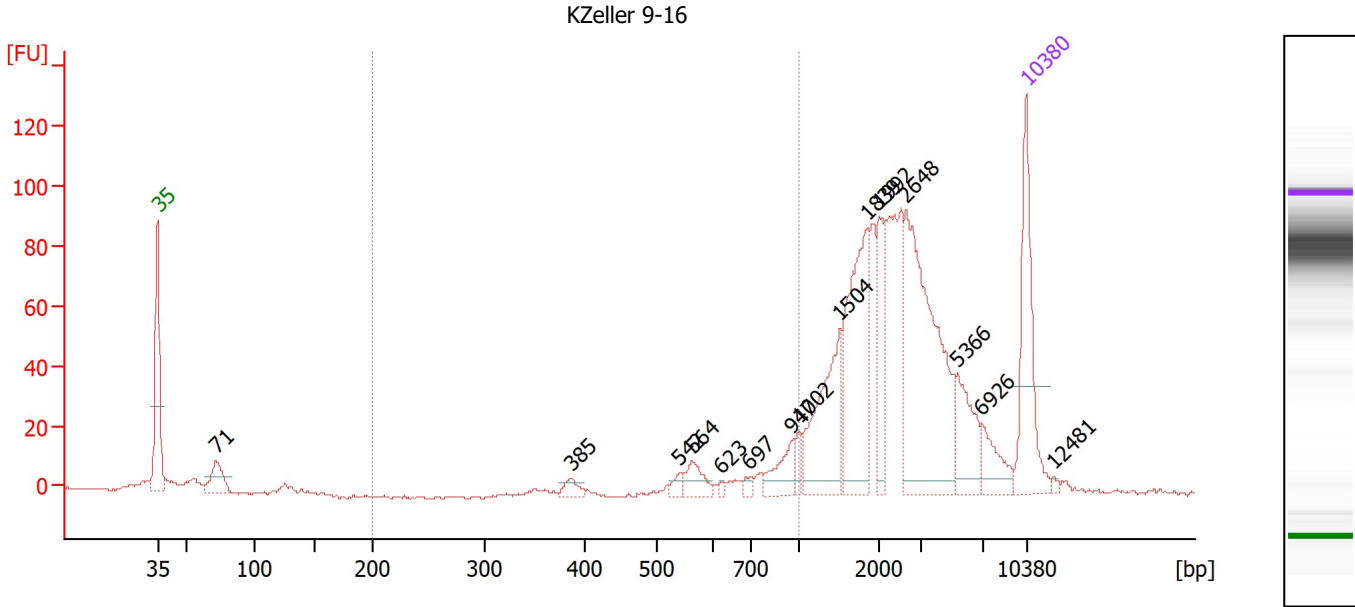
**Region table for sample 1 : KZeller 1-8**

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	255.1	11	701	24.5	219.00	513.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : KZeller 9-16**

Number of peaks found: 15      Corr. Area 1: 69.6  
 Noise: 0.5

**Peak table for sample 2 : KZeller 9-16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	71	33.49	711.4	
3	385	10.85	42.7	
4	542	7.37	20.6	
5	564	19.04	51.1	
6	623	2.75	6.7	
7	697	5.19	11.3	
8	947	24.45	39.1	
9	1,002	10.22	15.5	
10	1,504	84.02	84.6	
11	1,839	115.01	94.8	
12	1,992	46.85	35.6	
13	2,648	179.10	102.5	
14	5,366	43.09	12.2	
15	6,926	25.50	5.6	
16	10,380	75.00	10.9	Upper Marker
17	12,481	0.00	0.0	

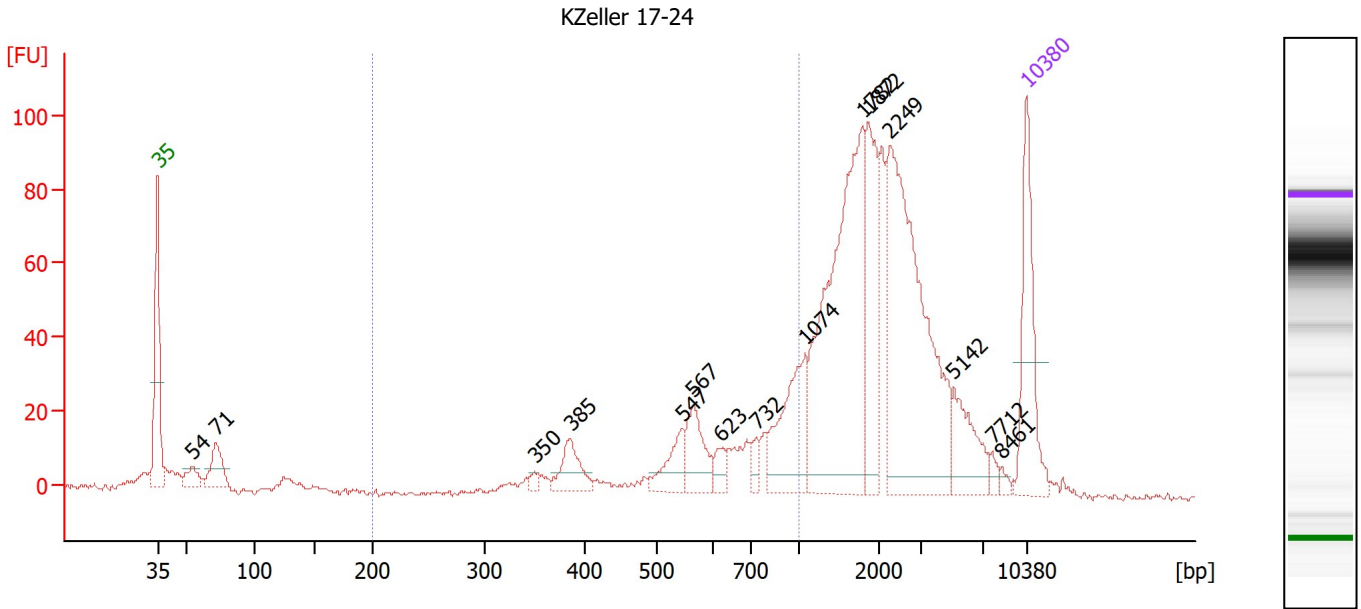
**Region table for sample 2 : KZeller 9-16**

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	69.6	7	752	23.7	57.79	127.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : KZeller 17-24**

Number of peaks found: 15                      Corr. Area 1: 274.3  
 Noise: 0.6

**Peak table for sample 3 : KZeller 17-24**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	20.11	563.8	
3	71	42.20	899.7	
4	350	5.80	25.1	
5	385	36.19	142.5	
6	547	33.56	93.0	
7	567	44.14	118.0	
8	623	13.73	33.4	
9	732	10.79	22.3	
10	1,074	79.83	112.6	
11	1,782	264.43	224.8	
12	1,872	88.01	71.2	
13	2,249	251.26	169.3	
14	5,142	45.52	13.4	
15	7,712	6.39	1.3	
16	8,461	3.62	0.6	
17	10,380	75.00	10.9	Upper Marker

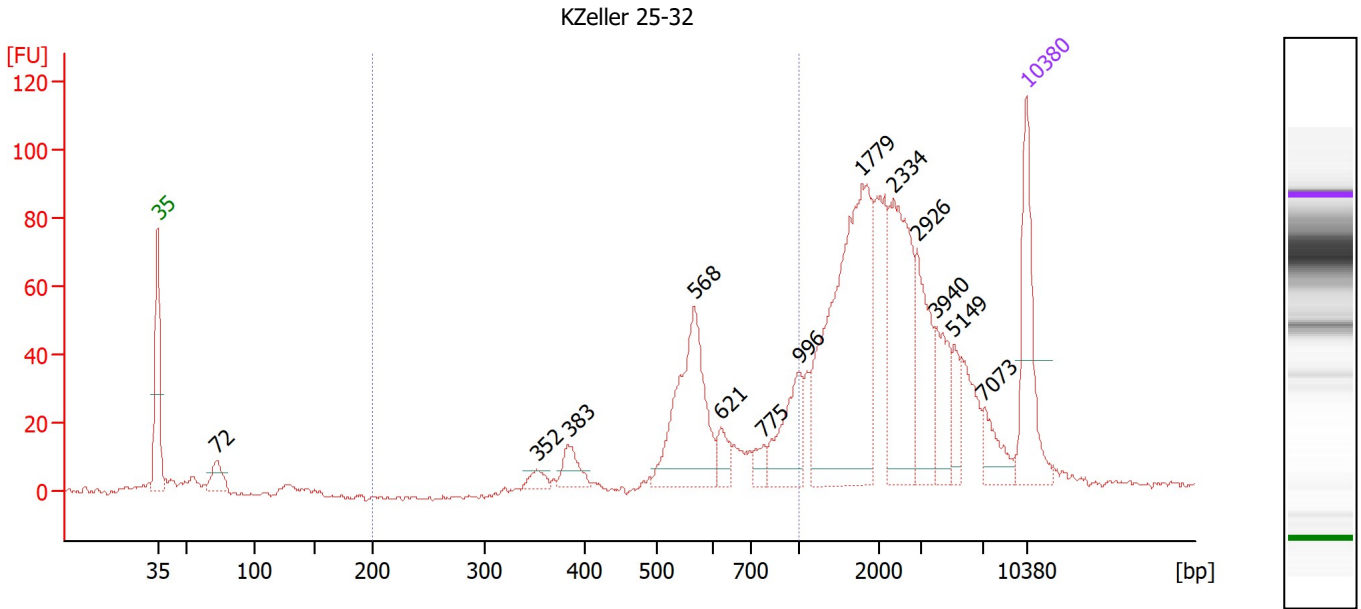
**Region table for sample 3 : KZeller 17-24**

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	274.3	22	647	29.9	278.94	747.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : KZeller 25-32**

Number of peaks found: 13                      Corr. Area 1: 321.8  
 Noise: 0.6

**Peak table for sample 4 : KZeller 25-32**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	72	27.27	573.2	
3	352	11.41	49.1	
4	383	26.34	104.2	
5	568	148.71	396.9	
6	621	20.16	49.2	
7	775	13.20	25.8	
8	996	58.85	89.5	
9	1,779	253.76	216.1	
10	2,334	126.43	82.1	
11	2,926	65.45	33.9	
12	3,940	43.59	16.8	
13	5,149	20.87	6.1	
14	7,073	25.58	5.5	
15	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : KZeller 25-32**

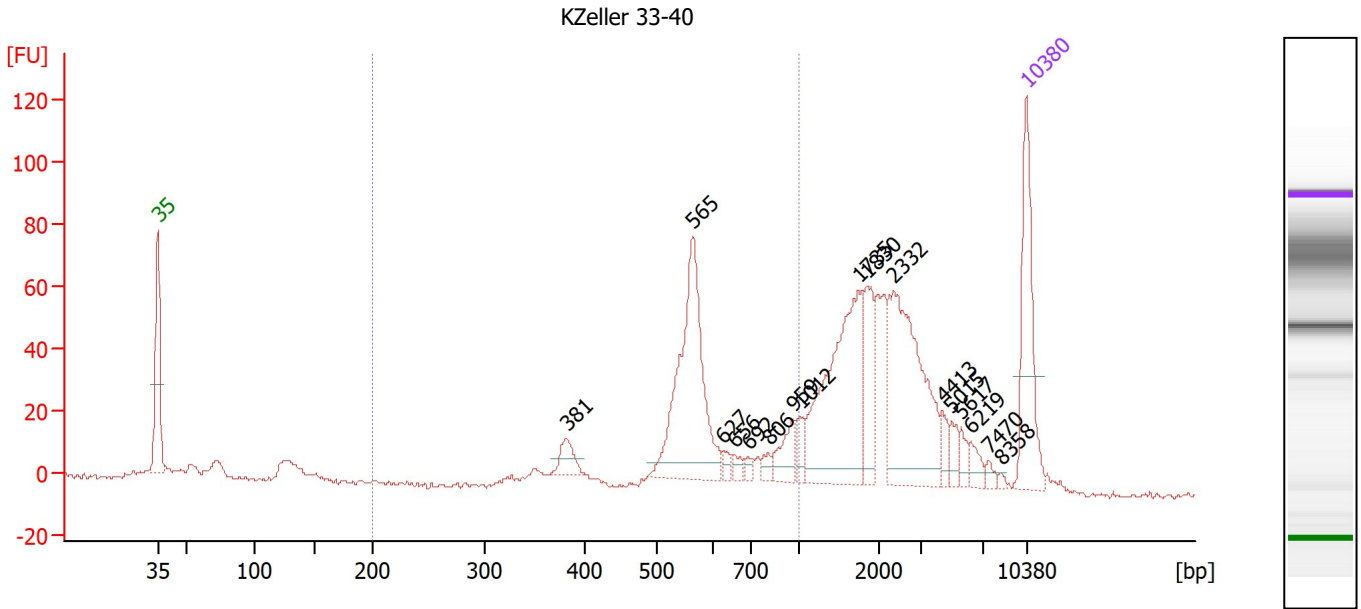
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	321.8	25	631	26.6	308.00	812.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : KZeller 33-40**

Number of peaks found: 17      Corr. Area 1: 335.6  
 Noise: 0.6

**Peak table for sample 5 : KZeller 33-40**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	381	20.41	81.1	
3	565	181.71	487.2	
4	627	6.16	14.9	
5	656	7.08	16.4	
6	692	5.83	12.8	
7	806	6.96	13.1	
8	959	24.31	38.4	
9	1,012	11.94	17.9	
10	1,735	147.01	128.4	
11	1,830	47.76	39.5	
12	2,332	142.28	92.4	
13	4,413	11.17	3.8	
14	5,015	9.83	3.0	
15	5,617	8.25	2.2	
16	6,219	10.76	2.6	
17	7,470	4.49	0.9	
18	8,358	1.94	0.4	
19	10,380	75.00	10.9	Upper Marker

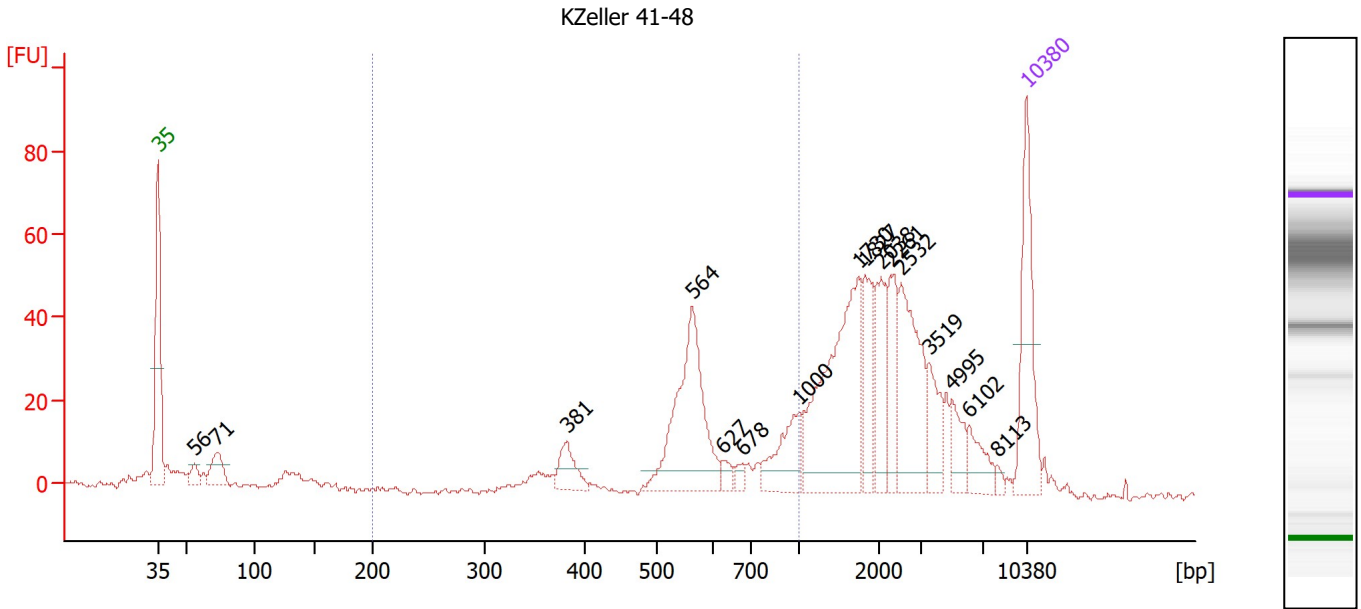
**Region table for sample 5 : KZeller 33-40**

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	335.6	34	602	24.8	314.97	857.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : KZeller 41-48**

Number of peaks found: 16      Corr. Area 1: 215.1  
 Noise: 0.7

**Peak table for sample 6 : KZeller 41-48**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	15.21	415.3	
3	71	34.53	731.7	
4	381	30.13	119.7	
5	564	152.64	410.2	
6	627	9.65	23.3	
7	678	8.13	18.2	
8	1,000	45.39	68.8	
9	1,730	162.72	142.5	
10	1,827	44.12	36.6	
11	2,038	47.07	35.0	
12	2,261	44.54	29.8	
13	2,532	90.08	53.9	
14	3,519	31.93	13.7	
15	4,995	22.50	6.8	
16	6,102	21.77	5.4	
17	8,113	3.58	0.7	
18	10,380	75.00	10.9	Upper Marker

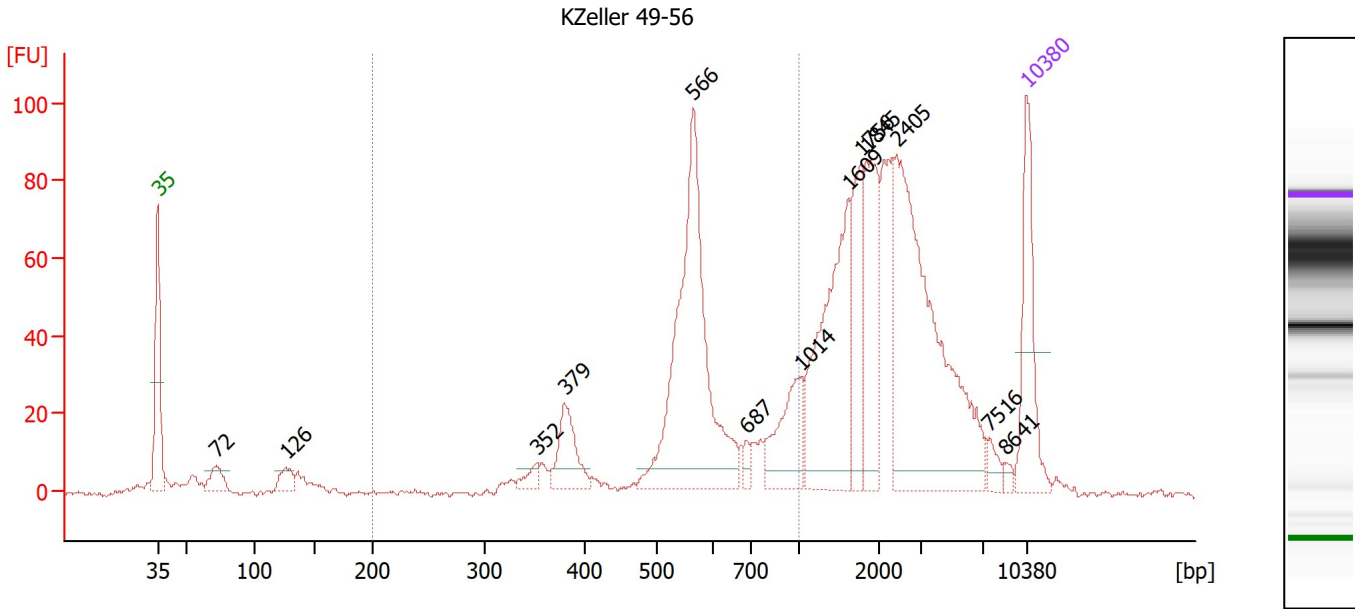
**Region table for sample 6 : KZeller 41-48**

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	215.1	27	615	26.9	262.20	710.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : KZeller 49-56**

Number of peaks found: 13                      Corr. Area 1: 483.6  
 Noise: 0.7

**Peak table for sample 7 : KZeller 49-56**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	72	26.40	558.3	
3	126	20.89	250.9	
4	352	11.25	48.4	
5	379	55.66	222.4	
6	566	311.30	832.6	
7	687	9.81	21.6	
8	1,014	65.80	98.3	
9	1,609	169.17	159.3	
10	1,756	75.62	65.3	
11	1,845	96.68	79.4	
12	2,405	287.37	181.0	
13	7,516	10.30	2.1	
14	8,641	4.82	0.8	
15	10,380	75.00	10.9	Upper Marker

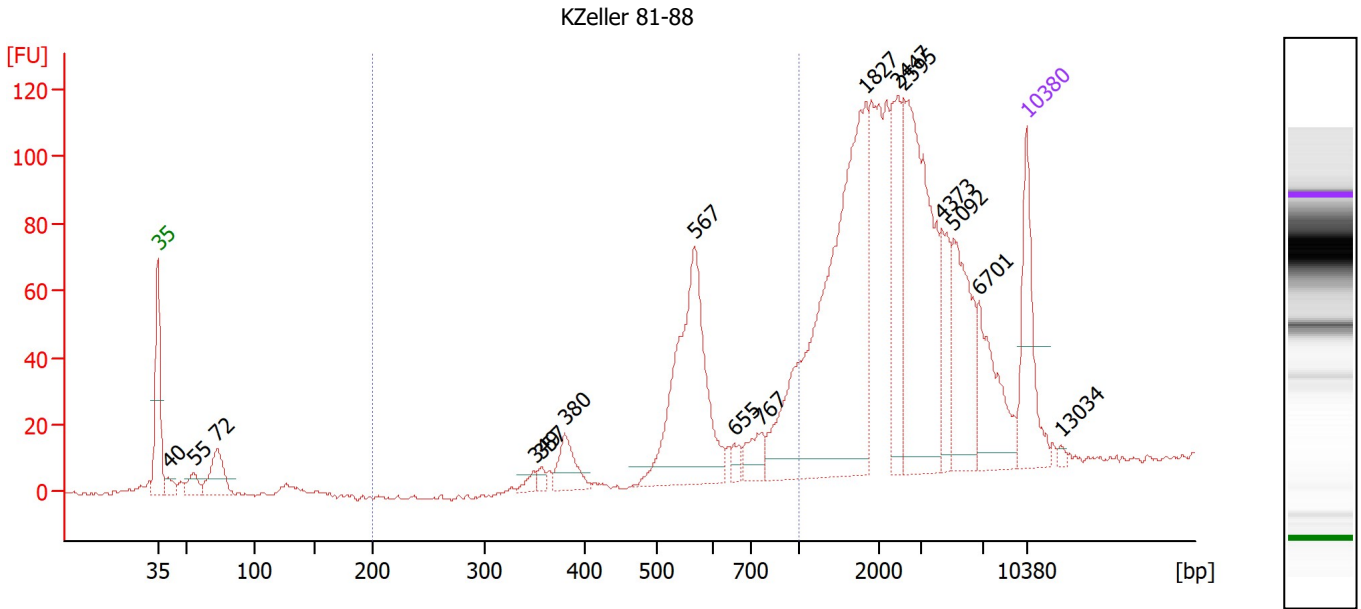
**Region table for sample 7 : KZeller 49-56**

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	483.6	34	590	26.8	541.33	1,532.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : KZeller 81-88**

Number of peaks found: 16      Corr. Area 1: 300.0  
 Noise: 0.6

**Peak table for sample 8 : KZeller 81-88**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	15.82	597.4	
3	55	23.74	655.0	
4	72	63.30	1,333.3	
5	349	9.25	40.1	
6	357	7.56	32.1	
7	380	40.53	161.7	
8	567	244.33	653.2	
9	655	11.20	25.9	
10	767	27.19	53.7	
11	1,827	405.59	336.3	
12	2,447	91.16	56.4	
13	2,595	240.04	140.1	
14	4,373	53.35	18.5	
15	5,092	98.08	29.2	
16	6,701	78.42	17.7	
17	10,380	75.00	10.9	Upper Marker
18	13,034	0.00	0.0	

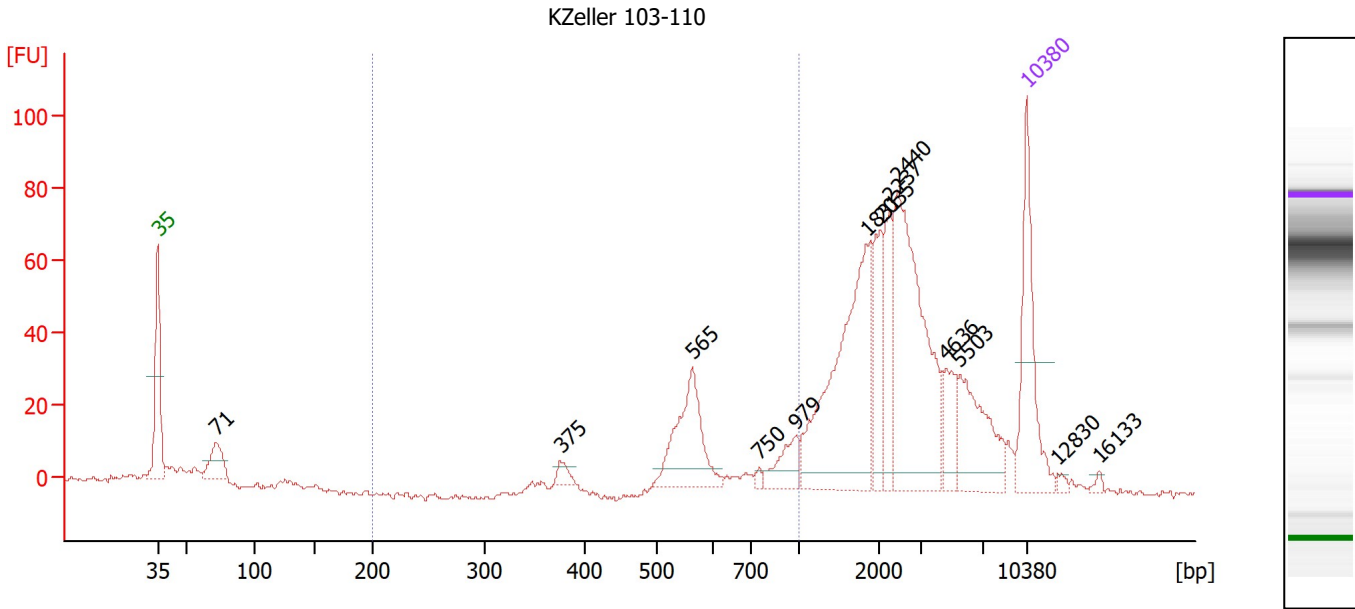
**Region table for sample 8 : KZeller 81-88**

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	300.0	19	635	25.1	333.28	858.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : KZeller 103-110**

Number of peaks found: 13                      Corr. Area 1: 121.2  
 Noise: 0.9

**Peak table for sample 9 : KZeller 103-110**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	71	37.78	806.7	
3	375	10.14	41.0	
4	565	86.88	233.0	
5	750	3.66	7.4	
6	979	25.65	39.7	
7	1,831	175.14	144.9	
8	2,035	45.37	33.8	
9	2,237	41.53	28.1	
10	2,440	176.62	109.7	
11	4,636	28.81	9.4	
12	5,503	67.27	18.5	
13	10,380	75.00	10.9	Upper Marker
14	12,830	0.00	0.0	
15	16,133	0.00	0.0	

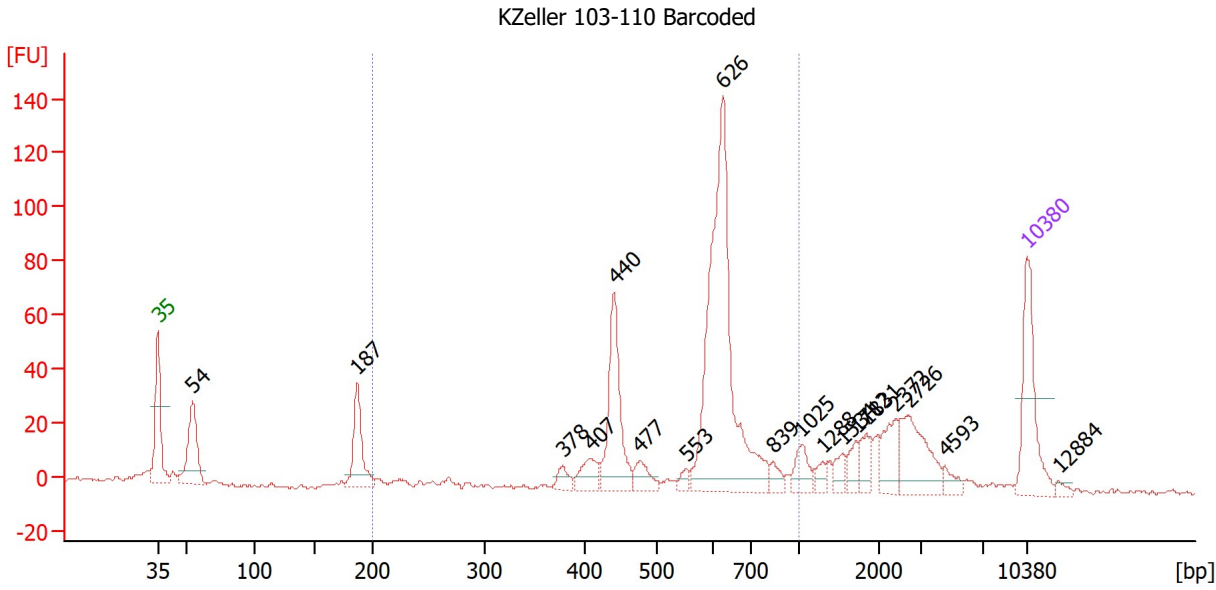
**Region table for sample 9 : KZeller 103-110**

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	121.2	15	638	25.3	123.28	315.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : KZeller 103-110 Barcoded**

Number of peaks found: 18                      Corr. Area 1: 471.3  
 Noise: 0.8

**Peak table for sample 10 : KZeller 103-110 Barcoded**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	97.26	2,726.4	
3	187	79.20	640.8	
4	378	14.94	59.9	
5	407	27.88	103.9	
6	440	113.88	391.8	
7	477	22.67	72.0	
8	553	8.91	24.4	
9	626	355.10	858.9	
10	839	12.87	23.2	
11	1,025	24.01	35.5	
12	1,288	10.08	11.9	
13	1,534	13.67	13.5	
14	1,712	15.37	13.6	
15	1,831	19.26	15.9	
16	2,372	31.56	20.2	
17	2,726	62.99	35.0	
18	4,593	10.15	3.3	
19	10,380	75.00	10.9	Upper Marker
20	12,884	0.00	0.0	

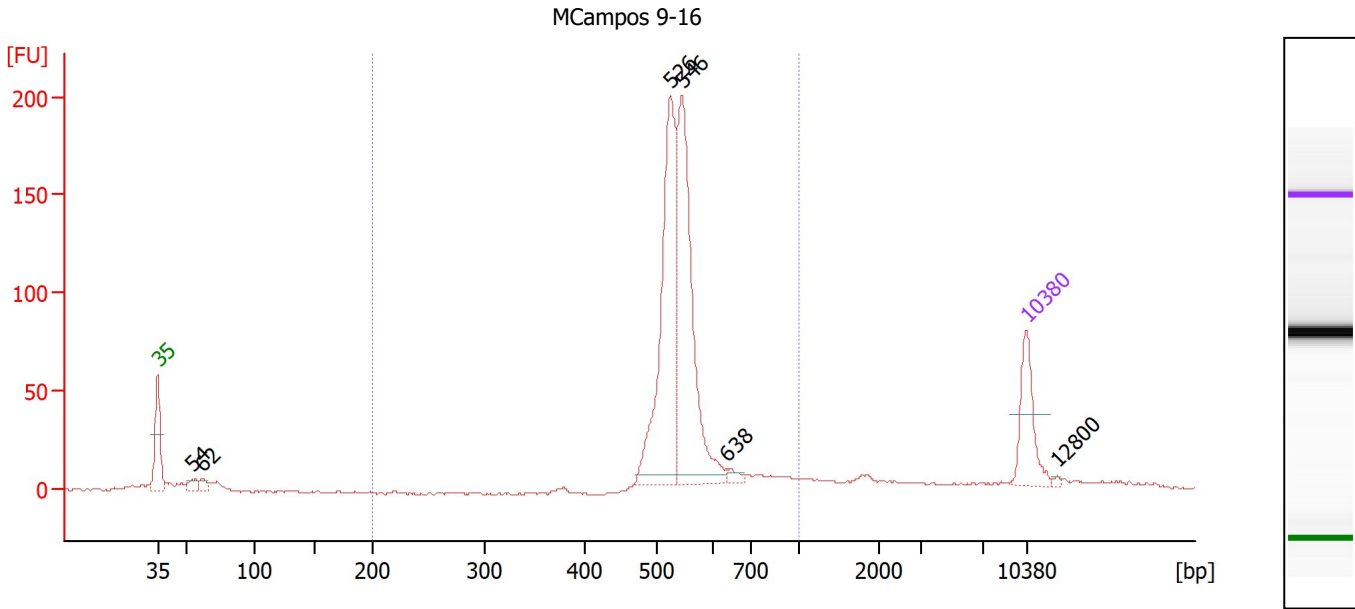
**Region table for sample 10 : KZeller 103-110 Barcoded**

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	471.3	60	585	20.1	539.11	1,495.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
 Modified: 5/1/2024 2:10:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : MCamos 9-16**

Number of peaks found: 6      Corr. Area 1: 762.6  
 Noise: 0.6

**Peak table for sample 11 : MCamos 9-16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	19.13	539.4	
3	62	14.97	365.3	
4	526	392.58	1,130.9	
5	546	380.91	1,056.8	
6	638	10.49	24.9	
7	10,380	75.00	10.9	Upper Marker
8	12,800	0.00	0.0	

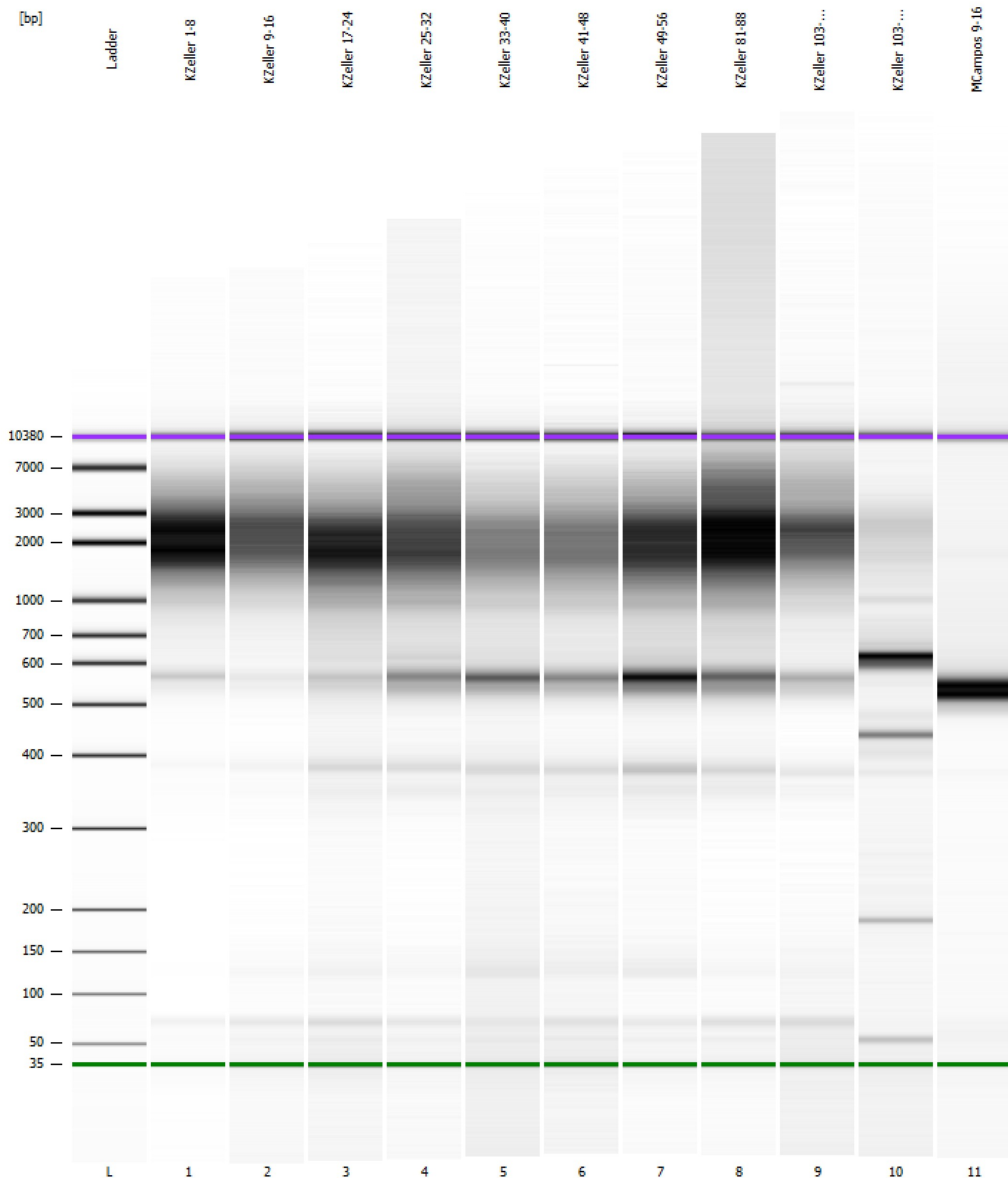
**Region table for sample 11 : MCamos 9-16**

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	762.6	74	558	14.7	912.27	2,526.7	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad

Created: 5/1/2024 1:29:00 PM  
Modified: 5/1/2024 2:10:26 PM

Gel Image





Assay Class: High Sensitivity DNA Assay Created: 5/1/2024 1:29:00 PM  
 Data Path: C:\...r1\_High Sensitivity DNA Assay\_DE34903152\_2024-05-01\_001.xad Modified: 5/1/2024 2:10:26 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		5/1/2024 2:10:22 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\2024-05-01\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-05-01_001.xad)		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/1/2024 1:29:07 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB