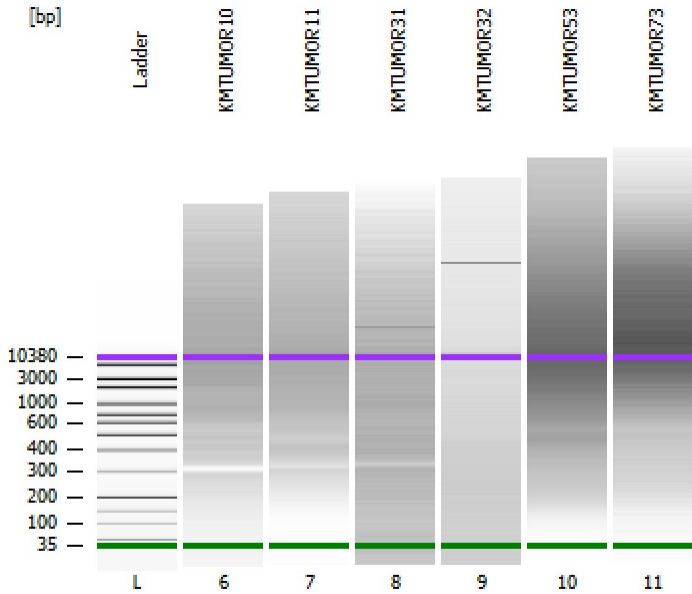


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
Modified: 5/19/2023 1:05:52 PM

**Electrophoresis File Run Summary**



Instrument Information:

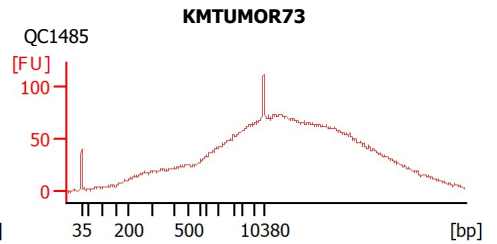
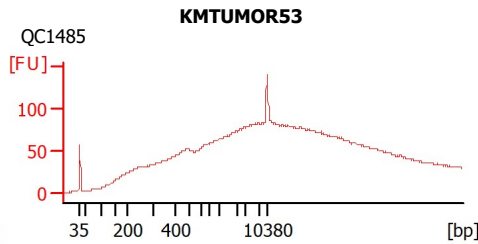
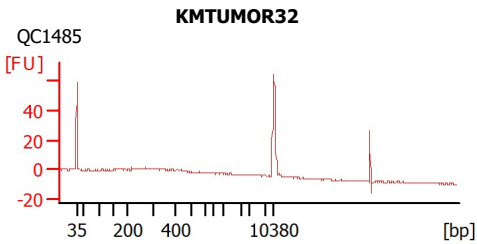
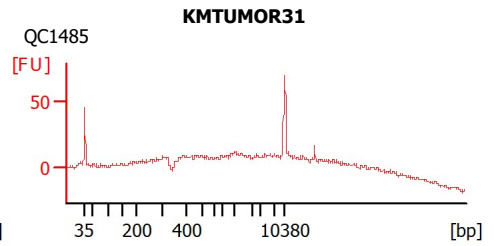
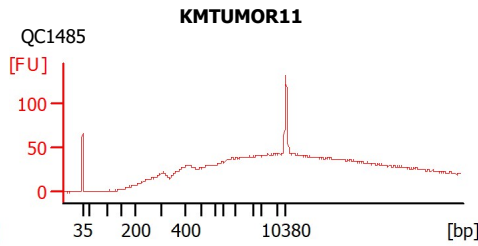
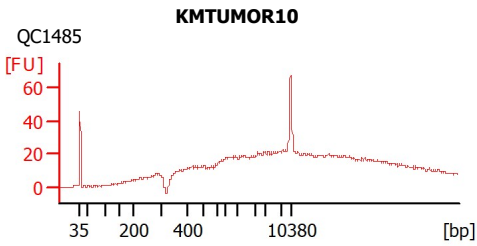
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KMTUMOR10	QC1485	<input type="checkbox"/>		✓		
KMTUMOR11	QC1485	<input type="checkbox"/>		✓		
KMTUMOR31	QC1485	<input type="checkbox"/>		✓		
KMTUMOR32	QC1485	<input type="checkbox"/>		✓		
KMTUMOR53	QC1485	<input type="checkbox"/>		✓		
KMTUMOR73	QC1485	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 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

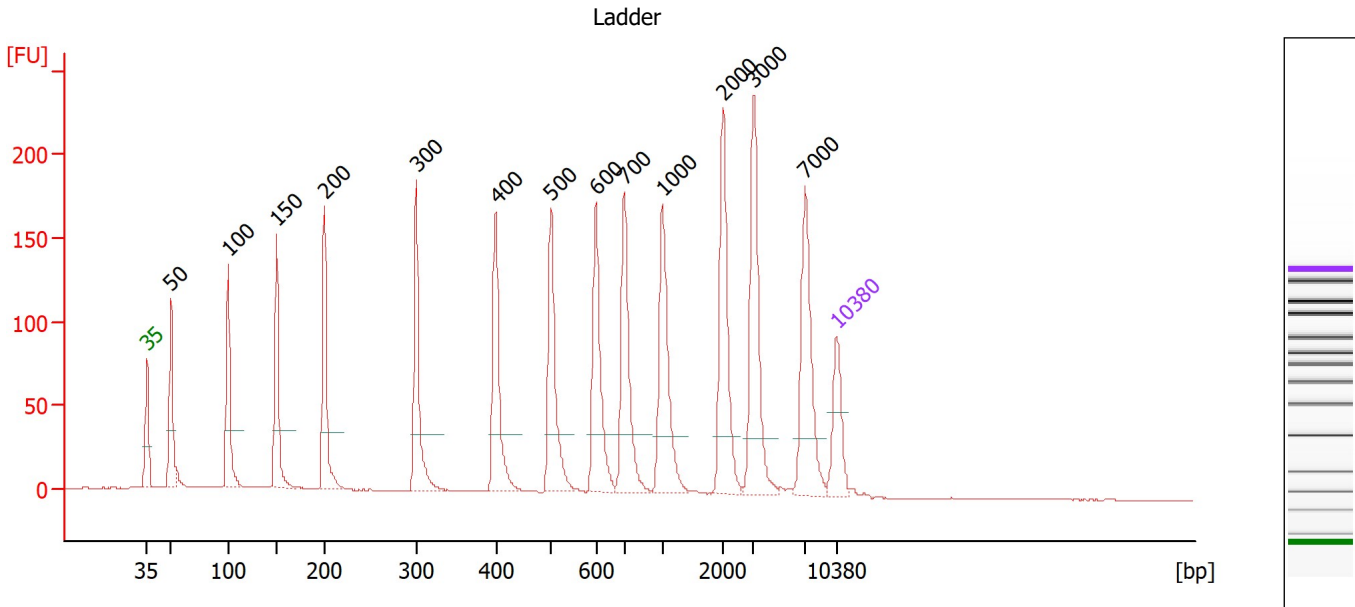
**Ladder**

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:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

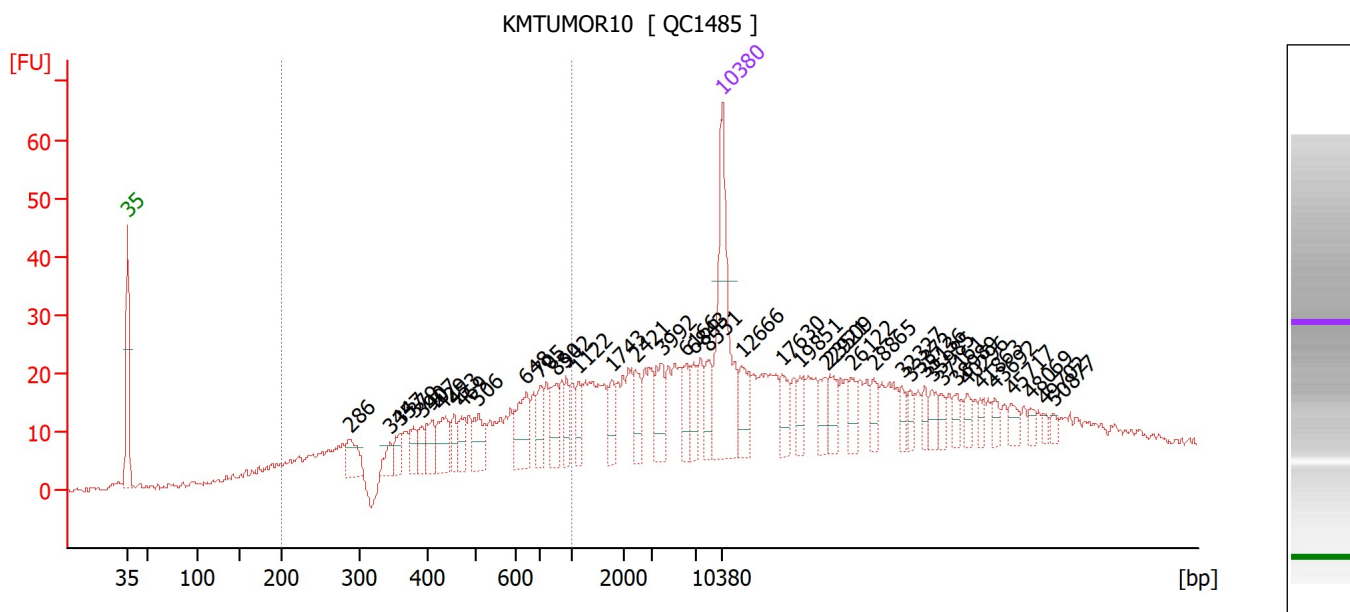
**Peak table for Ladder**

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:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : KMTUMOR10**

Number of peaks found: 41      Corr. Area 1: 299.6  
 Noise: 0.5

**Peak table for sample 6 : KMTUMOR10**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	21.98	116.4	
3	344	10.43	46.0	
4	357	12.22	51.8	
5	379	13.16	52.6	
6	390	10.64	41.4	
7	407	17.41	64.9	
8	429	24.47	86.4	
9	453	11.67	39.0	
10	469	13.32	43.0	
11	506	21.56	64.6	
12	648	30.81	72.1	
13	705	14.91	32.0	
14	850	18.49	32.9	
15	942	13.82	22.2	
16	1,122	12.71	17.2	
17	1,743	11.18	9.7	
18	2,421	11.79	7.4	
19	3,992	19.42	7.4	
20	6,166	13.13	3.2	
21	6,843	12.18	2.7	
22	8,551	13.74	2.4	
23	10,380	75.00	10.9	Upper Marker
24	12,666	0.00	0.0	
25	17,630	0.00	0.0	
26	19,851	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : KMTUMOR10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	22,921	0.00	0.0	
28	23,509	0.00	0.0	
29	26,122	0.00	0.0	
30	28,865	0.00	0.0	
31	32,327	0.00	0.0	
32	33,372	0.00	0.0	
33	35,136	0.00	0.0	
34	35,985	0.00	0.0	
35	37,161	0.00	0.0	
36	38,989	0.00	0.0	
37	40,296	0.00	0.0	
38	41,863	0.00	0.0	
39	43,692	0.00	0.0	
40	45,717	0.00	0.0	
41	48,069	0.00	0.0	
42	49,702	0.00	0.0	
43	50,877	0.00	0.0	

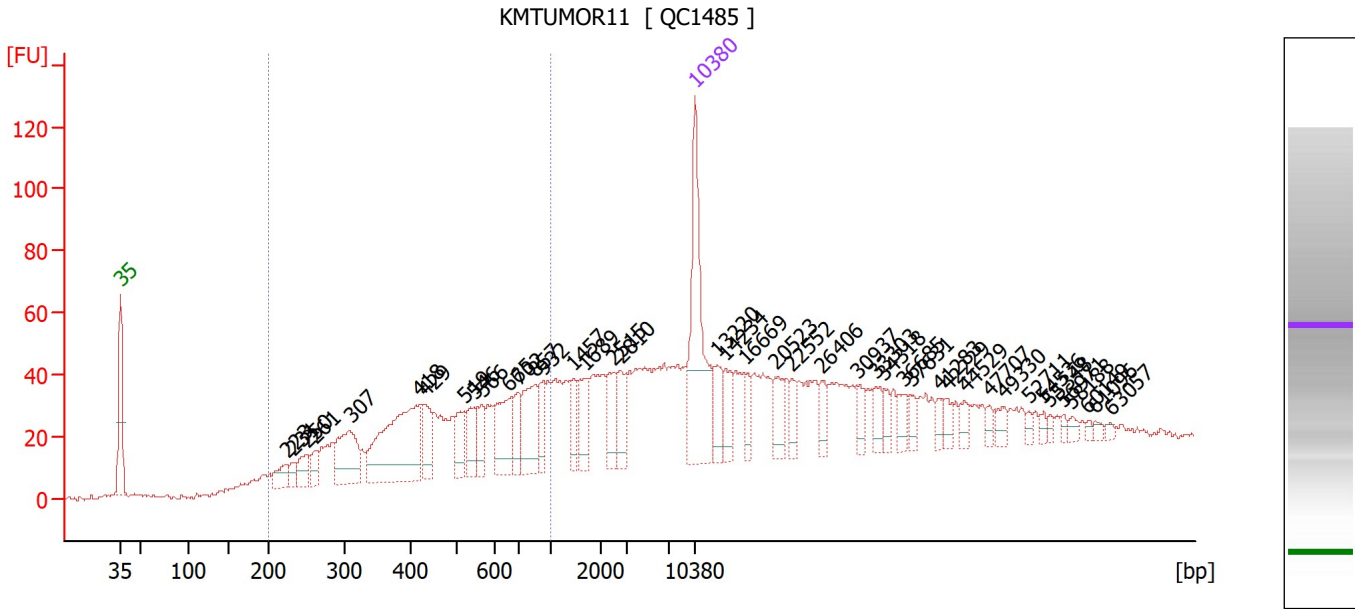
**Region table for sample 6 : KMTUMOR10**

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	299.6	34	536	38.6	410.83	1,477.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : KMTUMOR11**

Number of peaks found: 42                      Corr. Area 1: 698.0  
 Noise: 0.7

**Peak table for sample 7 : KMTUMOR11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	14.68	99.9	
3	231	7.67	50.3	
4	250	15.93	96.6	
5	261	11.72	68.0	
6	307	45.78	225.6	
7	418	99.92	362.6	
8	429	20.20	71.3	
9	519	18.97	55.3	
10	546	20.11	55.8	
11	566	14.01	37.5	
12	665	33.41	76.2	
13	702	17.62	38.0	
14	857	33.56	59.3	
15	932	14.30	23.2	
16	1,457	13.80	14.3	
17	1,689	18.94	17.0	
18	2,515	17.57	10.6	
19	2,810	16.64	9.0	
20	10,380	75.00	10.9	Upper Marker
21	13,220	0.00	0.0	
22	14,234	0.00	0.0	
23	16,669	0.00	0.0	
24	20,523	0.00	0.0	
25	22,552	0.00	0.0	
26	26,406	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : KMTUMOR11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	30,937	0.00	0.0	
28	33,303	0.00	0.0	
29	34,318	0.00	0.0	
30	36,685	0.00	0.0	
31	37,631	0.00	0.0	
32	41,283	0.00	0.0	
33	42,229	0.00	0.0	
34	44,529	0.00	0.0	
35	47,707	0.00	0.0	
36	49,330	0.00	0.0	
37	52,711	0.00	0.0	
38	54,536	0.00	0.0	
39	55,348	0.00	0.0	
40	56,971	0.00	0.0	
41	58,188	0.00	0.0	
42	60,149	0.00	0.0	
43	61,096	0.00	0.0	
44	63,057	0.00	0.0	

**Region table for sample 7 : KMTUMOR11**

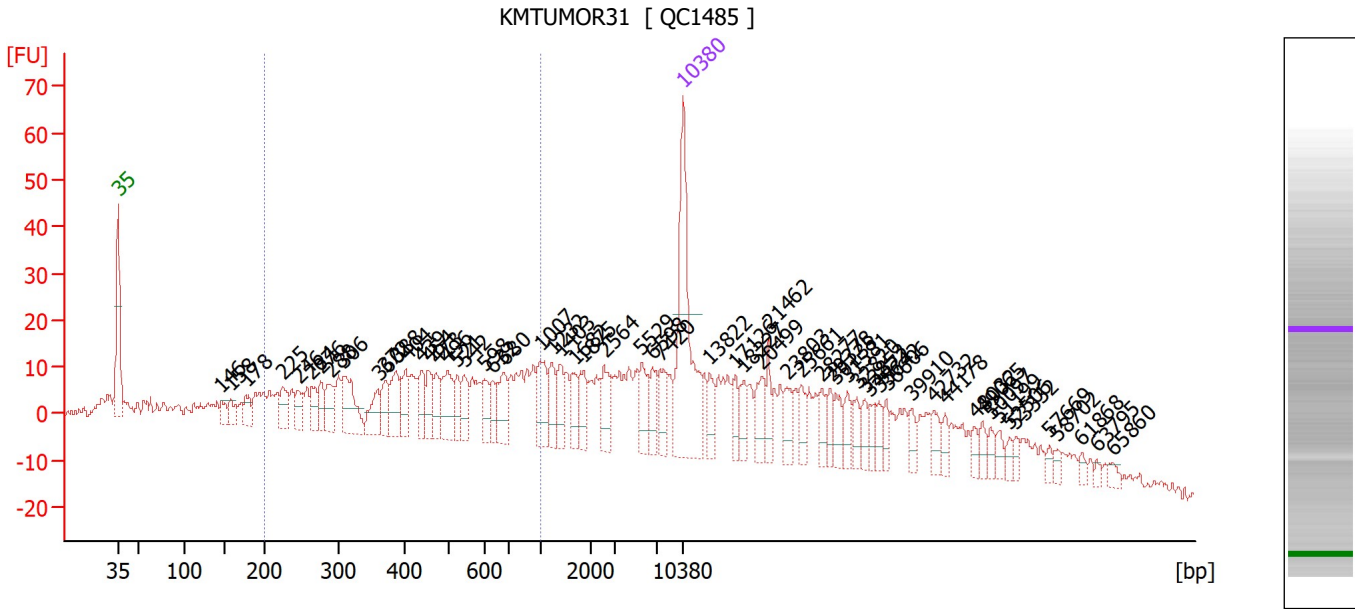
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	698.0	39	512	39.1	477.24	1,754.7	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : KMTUMOR31**

Number of peaks found: 61                      Corr. Area 1: 476.6  
 Noise: 1.1

**Peak table for sample 8 : KMTUMOR31**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	146	9.98	103.5	
3	158	9.76	93.5	
4	178	12.65	107.7	
5	225	17.23	115.9	
6	246	13.72	84.6	
7	264	14.81	85.2	
8	276	13.43	73.8	
9	288	18.49	97.1	
10	306	33.53	165.8	
11	360	17.53	73.7	
12	372	14.20	57.8	
13	388	22.85	89.2	
14	404	18.28	68.5	
15	439	14.93	51.6	
16	454	15.94	53.2	
17	473	13.60	43.6	
18	496	25.98	79.3	
19	521	12.64	36.7	
20	542	14.23	39.8	
21	598	12.05	30.5	
22	632	11.15	26.7	
23	680	18.86	42.0	
24	1,007	20.80	31.3	
25	1,232	13.80	17.0	
26	1,403	14.15	15.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : KMTUMOR31**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,682	11.16	10.1	
28	1,875	13.08	10.6	
29	2,564	16.39	9.7	
30	5,529	16.33	4.5	
31	6,598	11.30	2.6	
32	7,420	12.83	2.6	
33	10,380	75.00	10.9	Upper Marker
34	13,822	0.00	0.0	
35	17,126	0.00	0.0	
36	18,227	0.00	0.0	
37	20,499	0.00	0.0	
38	21,462	0.00	0.0	
39	23,803	0.00	0.0	
40	25,661	0.00	0.0	
41	28,277	0.00	0.0	
42	29,378	0.00	0.0	
43	30,135	0.00	0.0	
44	31,581	0.00	0.0	
45	32,820	0.00	0.0	
46	33,852	0.00	0.0	
47	34,472	0.00	0.0	
48	35,642	0.00	0.0	
49	36,606	0.00	0.0	
50	39,910	0.00	0.0	
51	42,732	0.00	0.0	
52	44,178	0.00	0.0	
53	48,032	0.00	0.0	
54	49,065	0.00	0.0	
55	50,097	0.00	0.0	
56	51,199	0.00	0.0	
57	52,506	0.00	0.0	
58	53,332	0.00	0.0	
59	57,669	0.00	0.0	
60	58,702	0.00	0.0	
61	61,868	0.00	0.0	
62	63,795	0.00	0.0	
63	65,860	0.00	0.0	

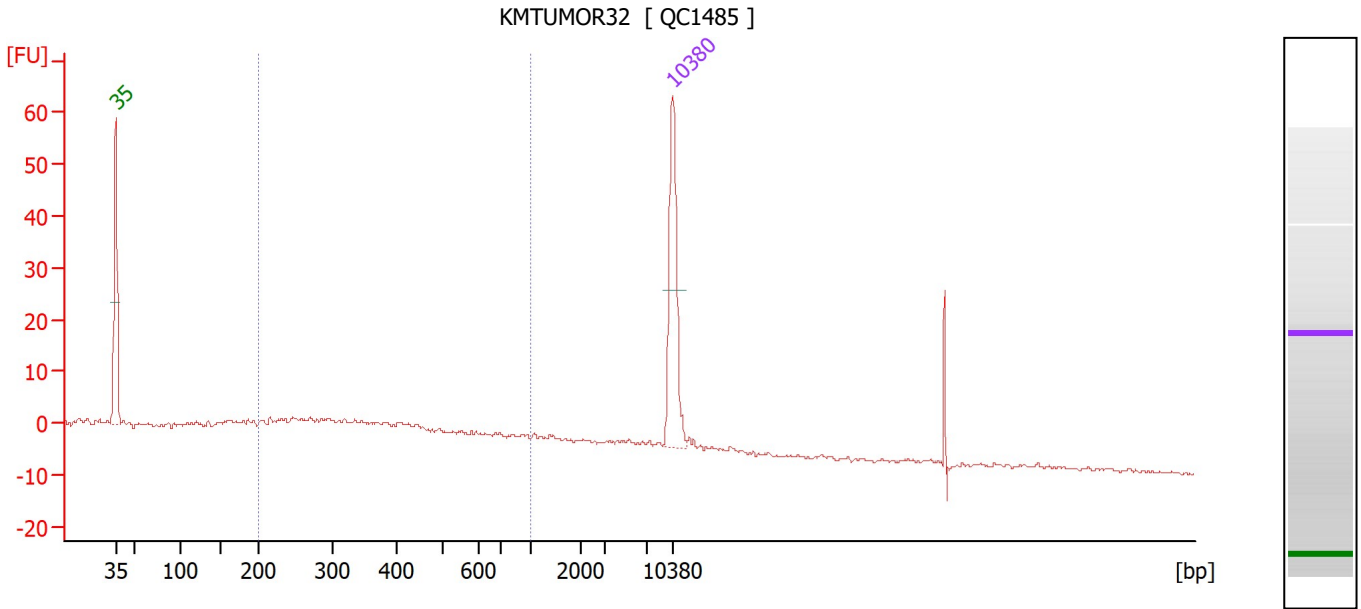
**Region table for sample 8 : KMTUMOR31**

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	476.6	35	488	41.2	509.23	2,009.8	<span style="color: blue;">■</span>

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : KMTUMOR32**

Number of peaks found: 0                      Corr. Area 1: 83.5  
 Noise: 0.4

**Peak table for sample 9 : KMTUMOR32**

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

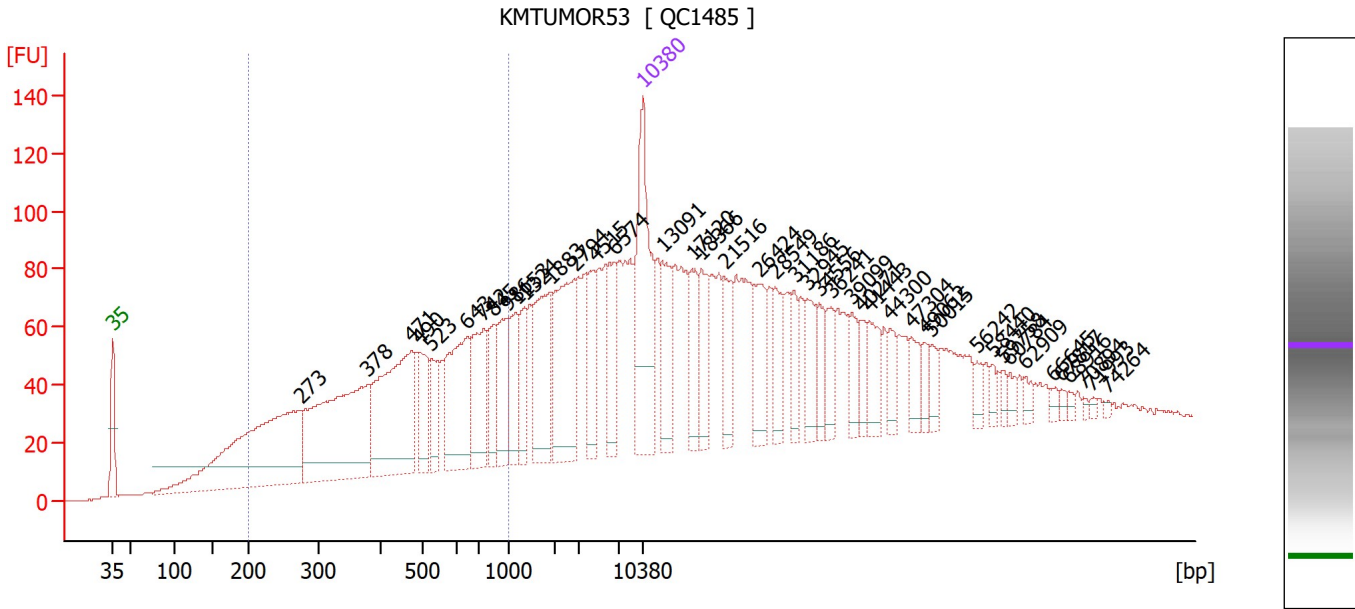
**Region table for sample 9 : KMTUMOR32**

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	83.5	62	407	42.1	146.19	662.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : KMTUMOR53**

Number of peaks found: 43                      Corr. Area 1: 1,341.2  
 Noise: 0.3

**Peak table for sample 10 : KMTUMOR53**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	208.19	1,157.4	
3	378	156.96	628.7	
4	471	124.62	400.5	
5	490	34.24	105.8	
6	523	23.69	68.6	
7	643	72.31	170.4	
8	742	49.66	101.4	
9	845	25.11	45.0	
10	986	34.67	53.3	
11	1,153	25.46	33.5	
12	1,324	22.46	25.7	
13	1,883	49.25	39.6	
14	2,794	66.57	36.1	
15	4,515	28.07	9.4	
16	6,574	28.81	6.6	
17	10,380	75.00	10.9	Upper Marker
18	13,091	0.00	0.0	
19	17,120	0.00	0.0	
20	18,366	0.00	0.0	
21	21,516	0.00	0.0	
22	26,424	0.00	0.0	
23	28,549	0.00	0.0	
24	31,886	0.00	0.0	
25	32,945	0.00	0.0	
26	34,556	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 10 : KMTUMOR53**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	36,241	0.00	0.0	
28	39,099	0.00	0.0	
29	40,271	0.00	0.0	
30	41,443	0.00	0.0	
31	44,300	0.00	0.0	
32	47,304	0.00	0.0	
33	49,062	0.00	0.0	
34	50,015	0.00	0.0	
35	56,242	0.00	0.0	
36	58,440	0.00	0.0	
37	59,758	0.00	0.0	
38	60,784	0.00	0.0	
39	62,909	0.00	0.0	
40	66,645	0.00	0.0	
41	67,817	0.00	0.0	
42	68,916	0.00	0.0	
43	70,894	0.00	0.0	
44	71,993	0.00	0.0	
45	74,264	0.00	0.0	

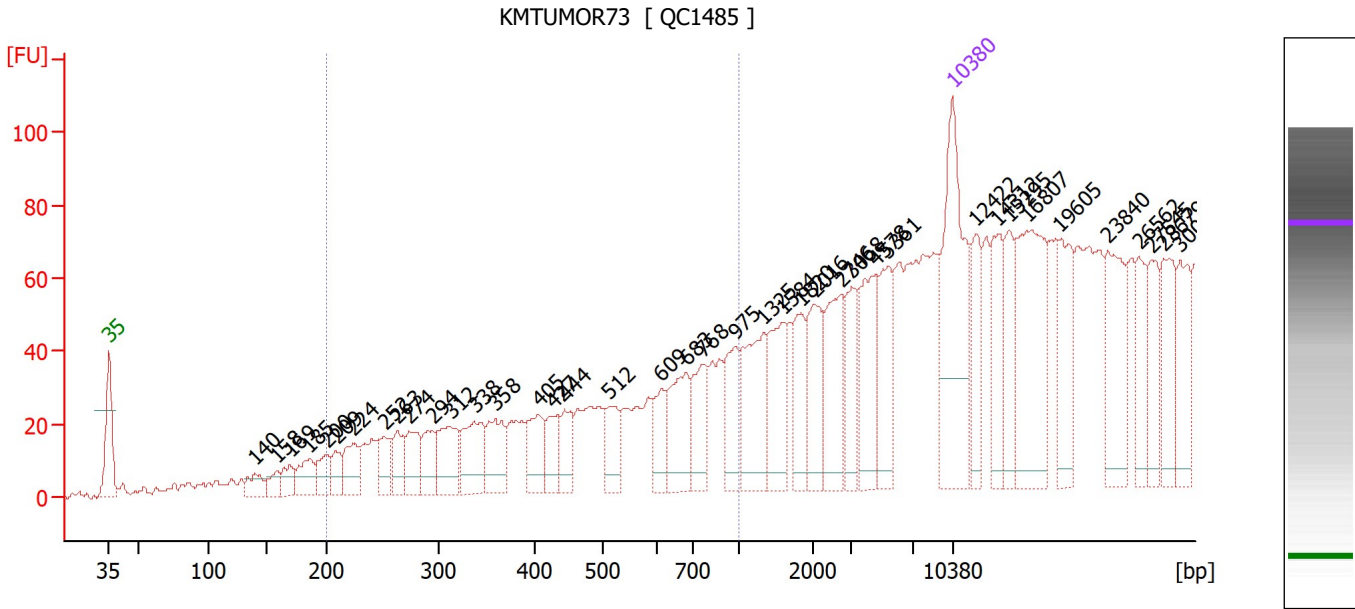
**Region table for sample 10 : KMTUMOR53**

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	1,341.2	34	496	40.9	724.04	2,813.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : KMTUMOR73**

Number of peaks found: 62                      Corr. Area 1: 819.8  
 Noise: 1.2

**Peak table for sample 11 : KMTUMOR73**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	140	12.26	133.0	
3	158	8.22	78.7	
4	169	12.19	109.1	
5	185	17.68	144.8	
6	200	14.58	110.5	
7	209	12.27	89.2	
8	224	21.71	146.8	
9	252	16.03	96.3	
10	263	16.53	95.2	
11	274	23.15	128.0	
12	294	19.38	99.7	
13	312	28.81	139.7	
14	338	29.77	133.6	
15	358	27.05	114.4	
16	405	22.82	85.4	
17	427	18.59	66.0	
18	444	17.00	58.1	
19	512	20.43	60.5	
20	609	17.66	43.9	
21	683	37.53	83.3	
22	768	25.43	50.1	
23	975	25.89	40.2	
24	1,325	42.86	49.0	
25	1,584	32.85	31.4	
26	1,820	24.36	20.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : KMTUMOR73**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,016	30.91	23.2	
28	2,746	36.47	20.1	
29	3,068	23.27	11.5	
30	4,578	38.19	12.6	
31	5,361	30.71	8.7	
32	10,380	75.00	10.9	Upper Marker
33	12,422	0.00	0.0	
34	14,312	0.00	0.0	
35	15,295	0.00	0.0	
36	16,807	0.00	0.0	
37	19,605	0.00	0.0	
38	23,840	0.00	0.0	
39	26,562	0.00	0.0	
40	27,545	0.00	0.0	
41	28,679	0.00	0.0	
42	30,041	0.00	0.0	
43	36,317	0.00	0.0	
44	38,737	0.00	0.0	
45	40,854	0.00	0.0	
46	42,744	0.00	0.0	
47	44,862	0.00	0.0	
48	46,979	0.00	0.0	
49	48,718	0.00	0.0	
50	50,609	0.00	0.0	
51	52,423	0.00	0.0	
52	54,238	0.00	0.0	
53	55,751	0.00	0.0	
54	57,036	0.00	0.0	
55	59,607	0.00	0.0	
56	61,800	0.00	0.0	
57	63,993	0.00	0.0	
58	67,169	0.00	0.0	
59	71,101	0.00	0.0	
60	72,084	0.00	0.0	
61	75,033	0.00	0.0	
62	76,319	0.00	0.0	
63	77,680	0.00	0.0	
64	78,965	0.00	0.0	

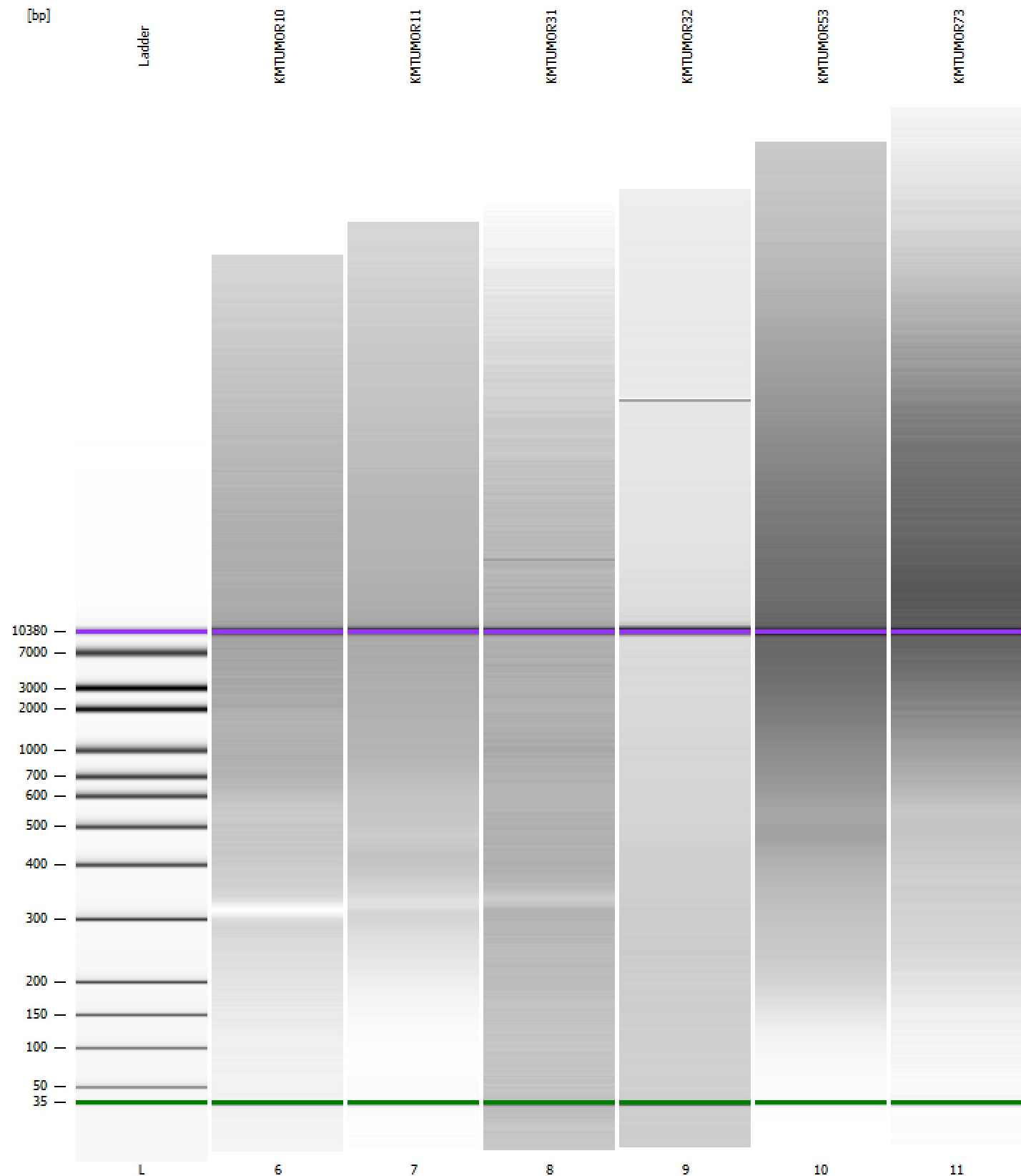
**Region table for sample 11 : KMTUMOR73**

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	819.8	22	506	41.5	539.43	2,074.3	<span style="color: blue;">■</span>

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
Modified: 5/19/2023 1:05:52 PM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...zer1\_High Sensitivity DNA Assay\_2023-05-18\_004\_QC1485\_B.xad

Created: 5/18/2023 2:23:36 PM  
 Modified: 5/19/2023 1:05:52 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		5/18/2023 3:04:00 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-05-18\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-18_004.xad)		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/18/2023 2:23:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB