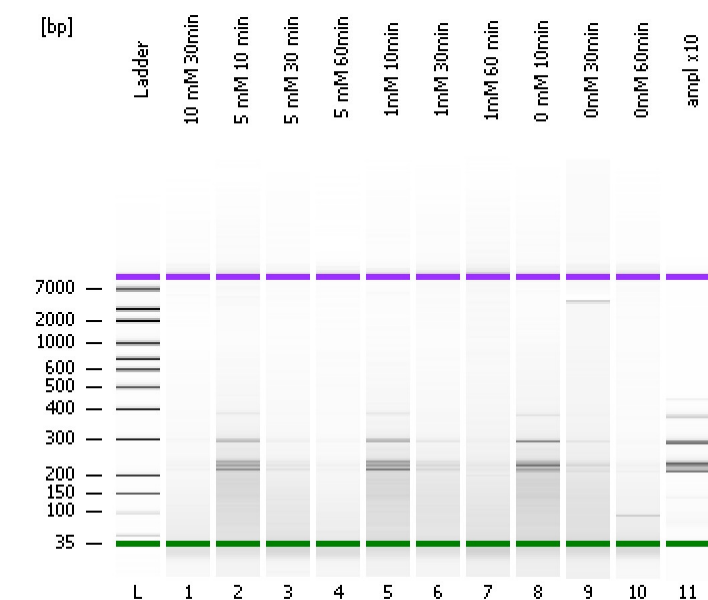


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
Modified: 11/1/2017 6:52:59 AM

Electrophoresis File Run Summary



Instrument Information:

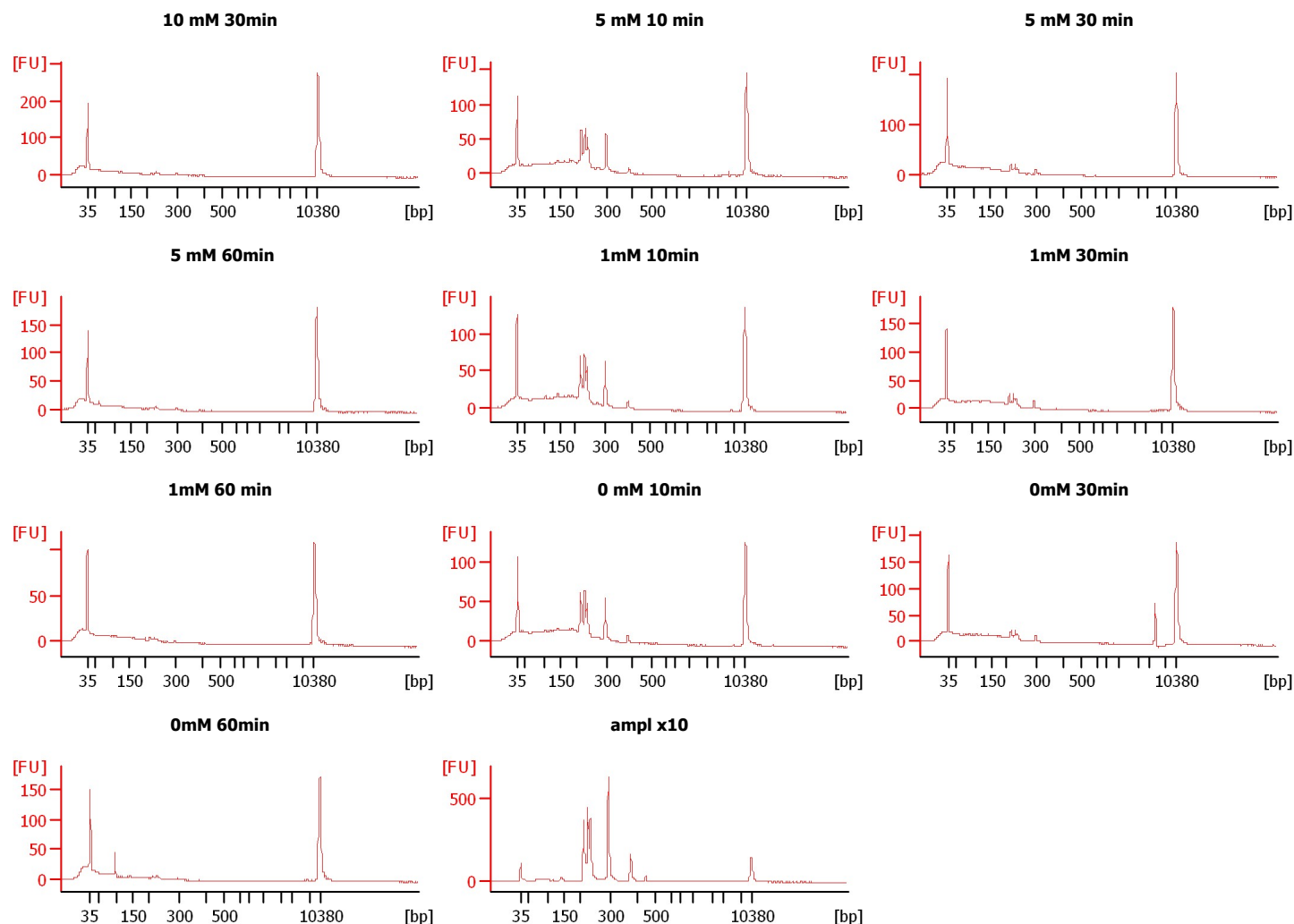
Instrument Name: DE34903402 Firmware: C.01.069
Serial#: DE34903402 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\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:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
Modified: 11/1/2017 6:52:59 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
10 mM 30min		☐	✓			
5 mM 10 min		☐	✓			
5 mM 30 min		☐	✓			
5 mM 60min		☐	✓			
1mM 10min		☐	✓			
1mM 30min		☐	✓			
1mM 60 min		☐	✓			
0 mM 10min		☐	✓			
0mM 30min		☐	✓			
0mM 60min		☐	✓			
ampl x10		☐	✓			
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
Modified: 11/1/2017 6:52:59 AM

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

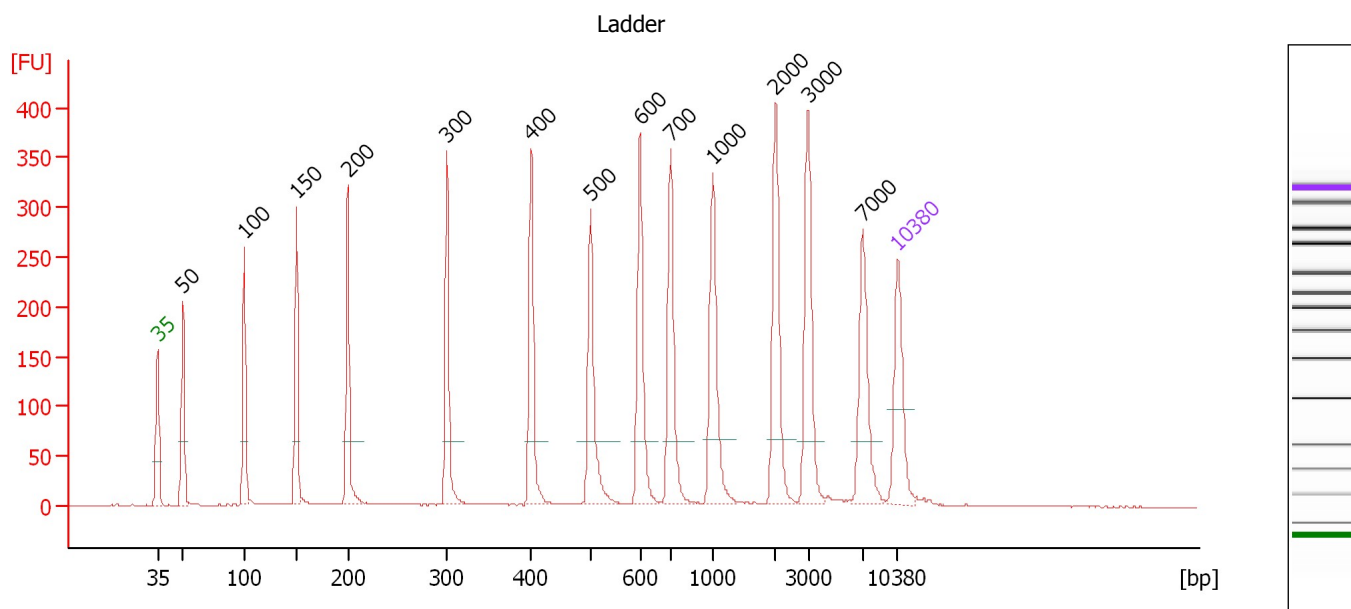
Ladder

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:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.5

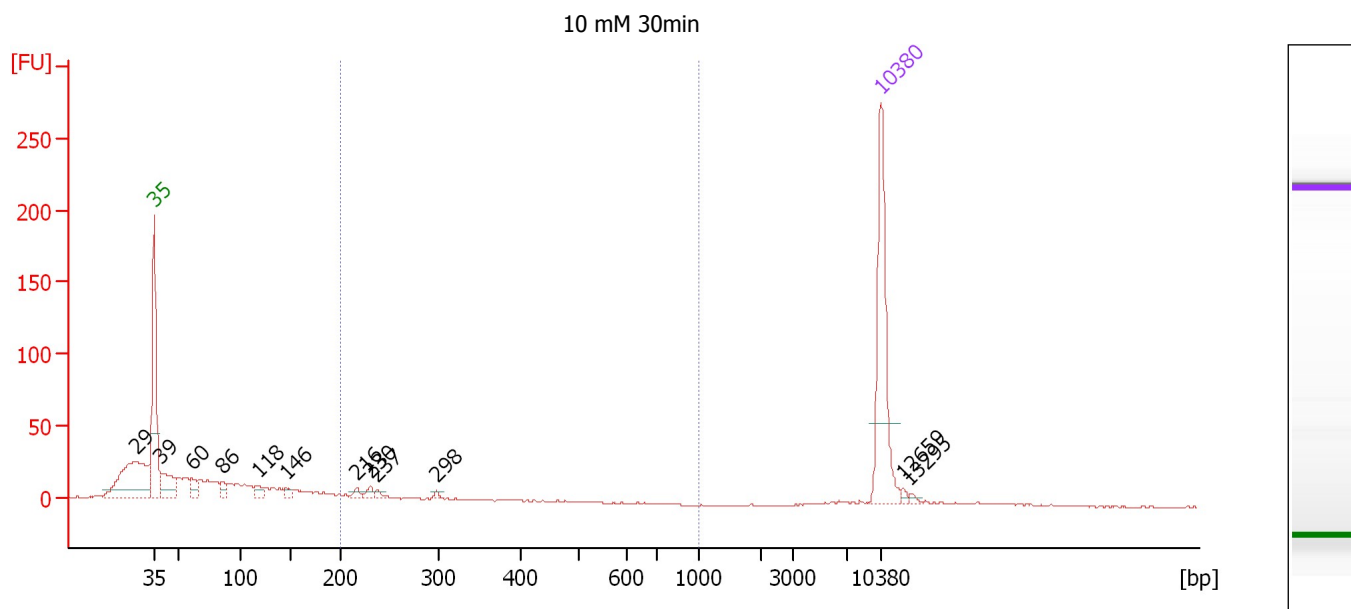
Peak table for Ladder

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:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 10 mM 30min

Number of peaks found: 12 Corr. Area 1: 57.0
 Noise: 0.4

Peak table for sample 1 : 10 mM 30min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	39	39.09	1,538.1	
4	60	14.52	365.7	
5	86	9.22	162.7	
6	118	7.76	99.5	
7	146	6.25	65.0	
8	216	4.58	32.1	
9	230	5.13	33.8	
10	237	3.23	20.7	
11	298	2.18	11.1	
12	10,380	75.00	10.9	Upper Marker
13	12,659	0.00	0.0	
14	13,295	0.00	0.0	

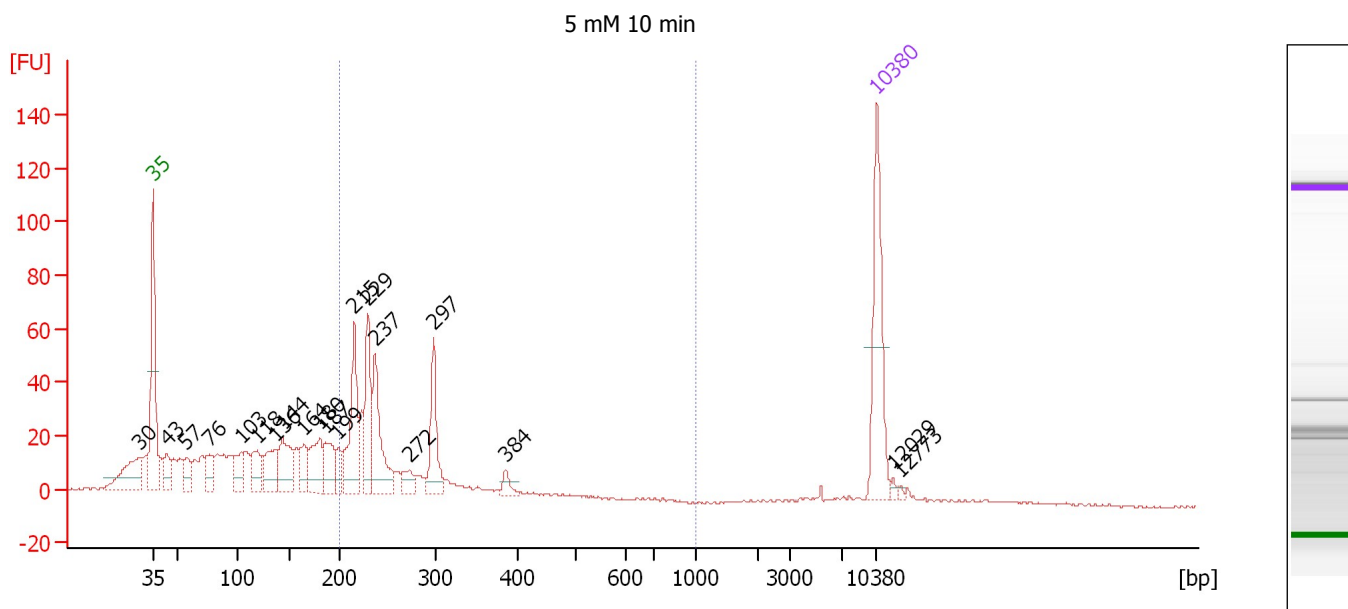
Region table for sample 1 : 10 mM 30min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
9	262	22.0	29.73	178.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
 Modified: 11/1/2017 6:52:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 5 mM 10 min

Number of peaks found: 20 Corr. Area 1: 396.5
 Noise: 0.5

Peak table for sample 2 : 5 mM 10 min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	43	31.10	1,096.2	
4	57	24.98	667.4	
5	76	28.81	572.2	
6	103	31.89	469.4	
7	118	36.90	473.5	
8	136	44.75	499.2	
9	144	57.20	603.3	
10	164	30.22	278.7	
11	180	49.75	418.1	
12	187	39.75	322.6	
13	199	19.62	149.4	
14	215	88.14	620.0	
15	229	65.26	431.6	
16	237	78.71	503.6	
17	272	16.08	89.5	
18	297	55.99	285.3	
19	384	9.03	35.6	
20	10,380	75.00	10.9	Upper Marker
21	12,029	0.00	0.0	
22	12,773	0.00	0.0	

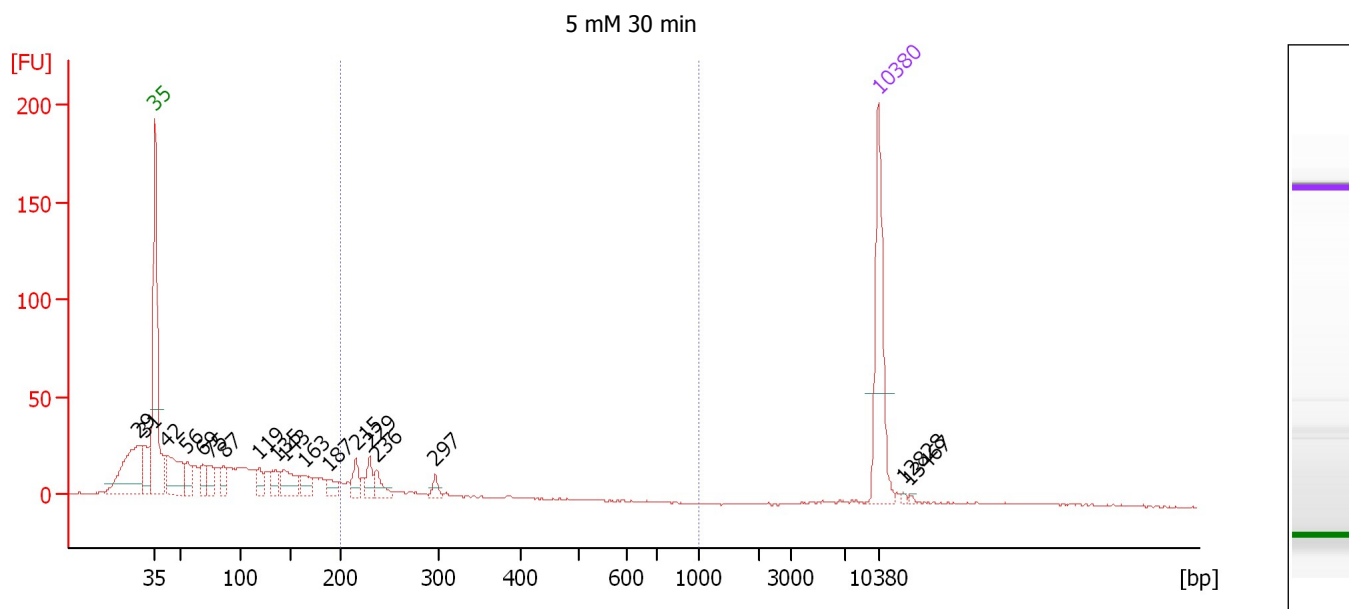
Region table for sample 2 : 5 mM 10 min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
39	261	21.5	394.33	2,369.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 5 mM 30 min

Number of peaks found: 18 Corr. Area 1: 116.6
 Noise: 0.4

Peak table for sample 3 : 5 mM 30 min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	31	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	42	80.33	2,917.4	
5	56	23.05	625.6	
6	69	21.26	465.6	
7	75	22.57	458.8	
8	87	19.94	349.1	
9	119	18.65	238.1	
10	135	19.62	220.4	
11	143	38.74	409.9	
12	163	18.43	171.5	
13	187	12.96	104.9	
14	215	18.56	130.8	
15	229	16.11	106.4	
16	236	16.67	106.8	
17	297	8.55	43.6	
18	10,380	75.00	10.9	Upper Marker
19	12,828	0.00	0.0	
20	13,467	0.00	0.0	

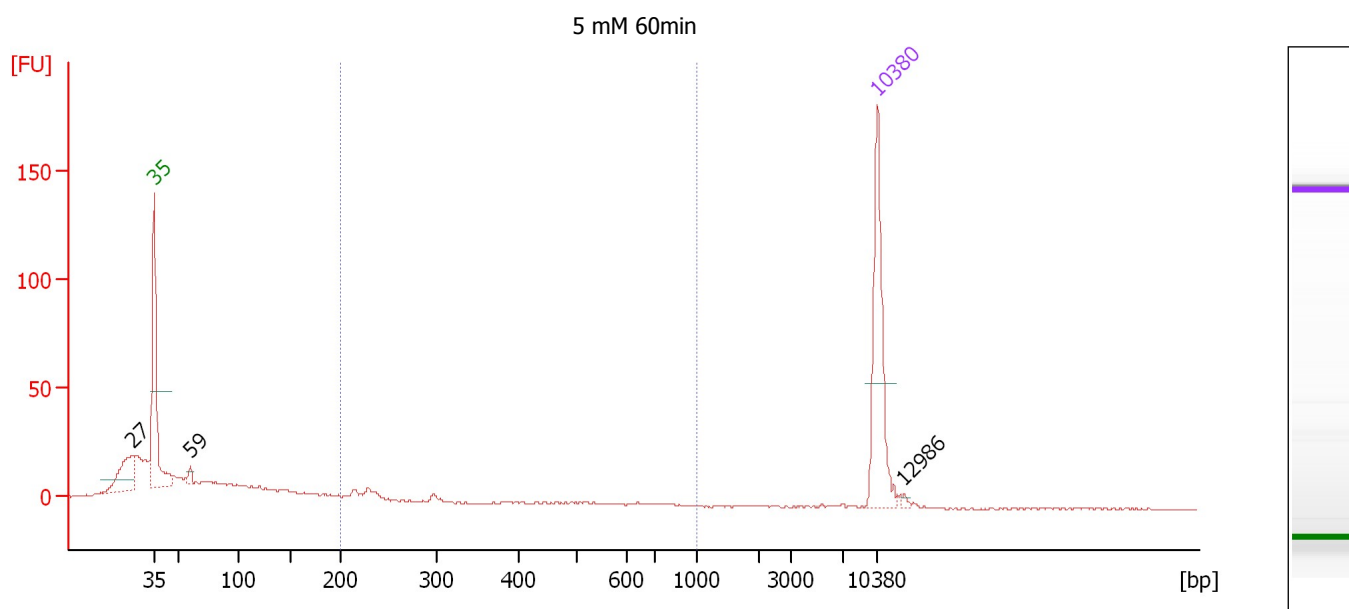
Region table for sample 3 : 5 mM 30 min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
15	252	19.1	92.69	572.7	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 5 mM 60min

Number of peaks found: 3 Corr. Area 1: 20.7
 Noise: 0.3

Peak table for sample 4 : 5 mM 60min

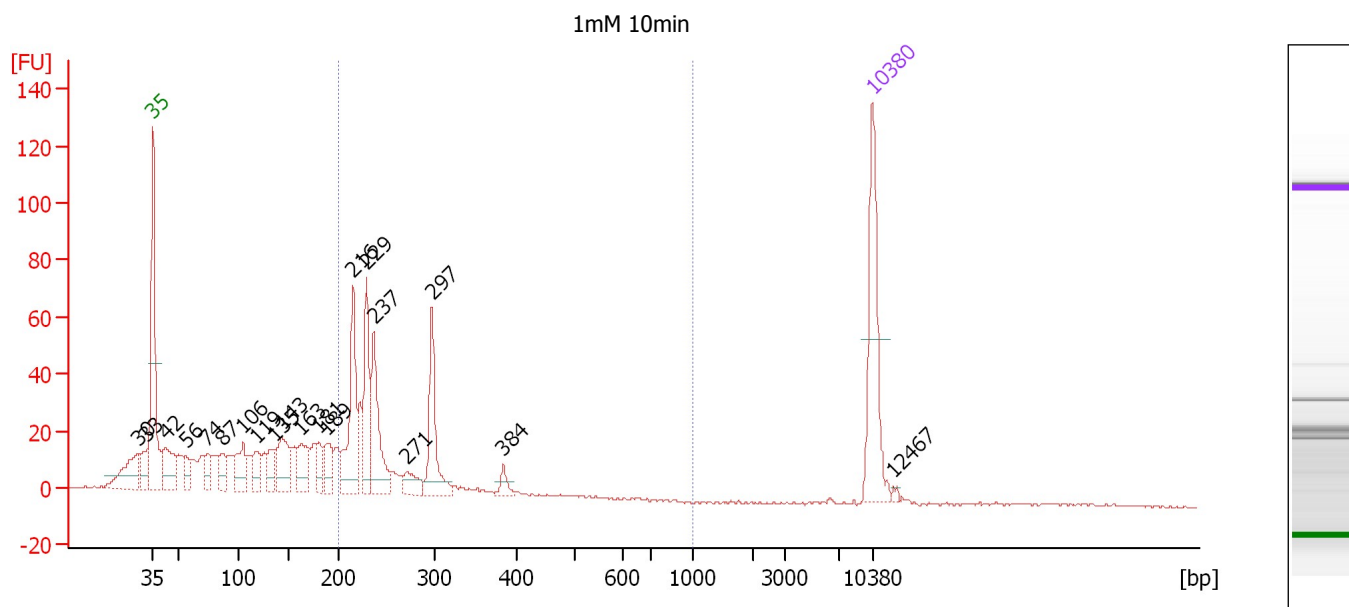
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	59	6.80	173.5	
4	10,380	75.00	10.9	Upper Marker
5	12,986	0.00	0.0	

Region table for sample 4 : 5 mM 60min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
6	233	12.0	16.42	106.9	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary Continued ...**Overall Results for sample 5 : 1mM 10min**

Number of peaks found: 20 Corr. Area 1: 382.7
 Noise: 0.5

Peak table for sample 5 : 1mM 10min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	42	54.83	1,959.6	
5	56	21.35	573.4	
6	74	22.64	461.7	
7	87	22.01	383.9	
8	106	42.48	609.8	
9	119	28.17	359.7	
10	135	25.57	285.9	
11	143	51.12	540.3	
12	163	39.96	372.6	
13	181	22.16	185.8	
14	189	29.17	234.2	
15	216	94.06	661.3	
16	229	71.68	473.6	
17	237	80.12	512.0	
18	271	18.97	105.9	
19	297	66.96	341.2	
20	384	10.03	39.6	
21	10,380	75.00	10.9	Upper Marker
22	12,467	0.00	0.0	

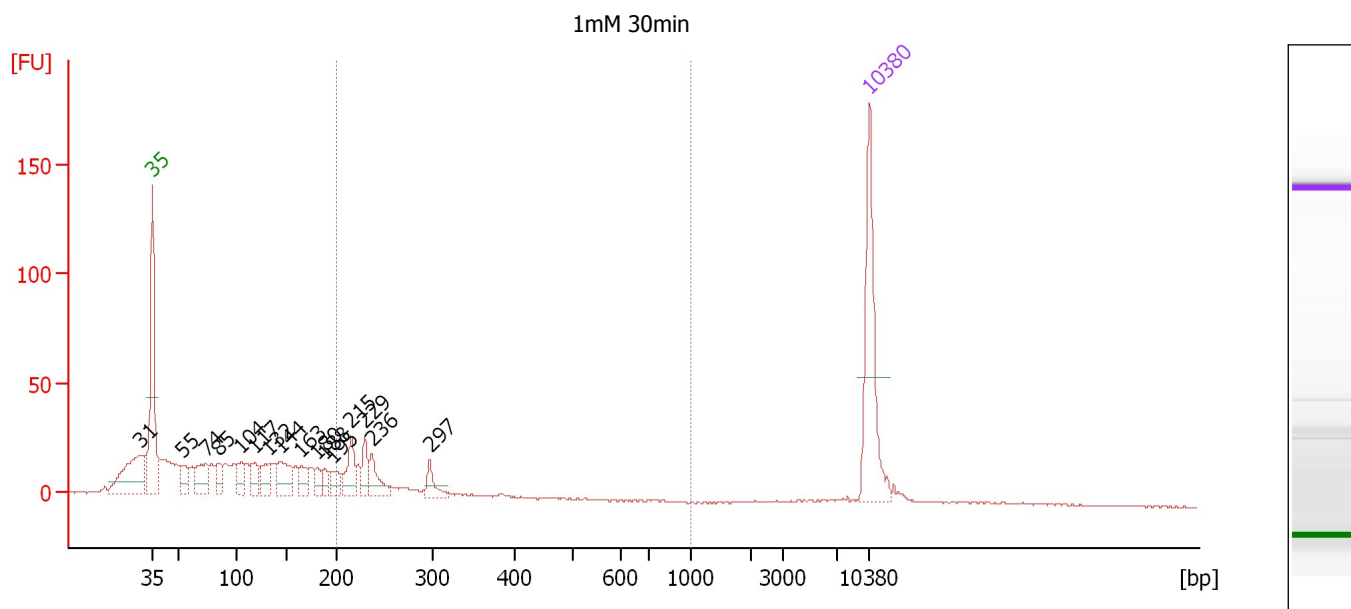
Region table for sample 5 : 1mM 10min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
41	254	18.4	389.90	2,375.4	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 1mM 30min

Number of peaks found: 16 Corr. Area 1: 160.5
 Noise: 0.4

Peak table for sample 6 : 1mM 30min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	55	19.86	550.0	
4	74	35.64	729.8	
5	85	20.29	360.8	
6	104	18.50	269.0	
7	117	21.55	278.1	
8	132	26.52	305.3	
9	144	35.17	370.8	
10	163	17.91	166.0	
11	180	12.43	104.5	
12	188	12.64	102.1	
13	195	16.13	125.5	
14	215	30.95	218.1	
15	229	21.70	143.6	
16	236	25.50	163.7	
17	297	15.42	78.8	
18	10,380	75.00	10.9	Upper Marker

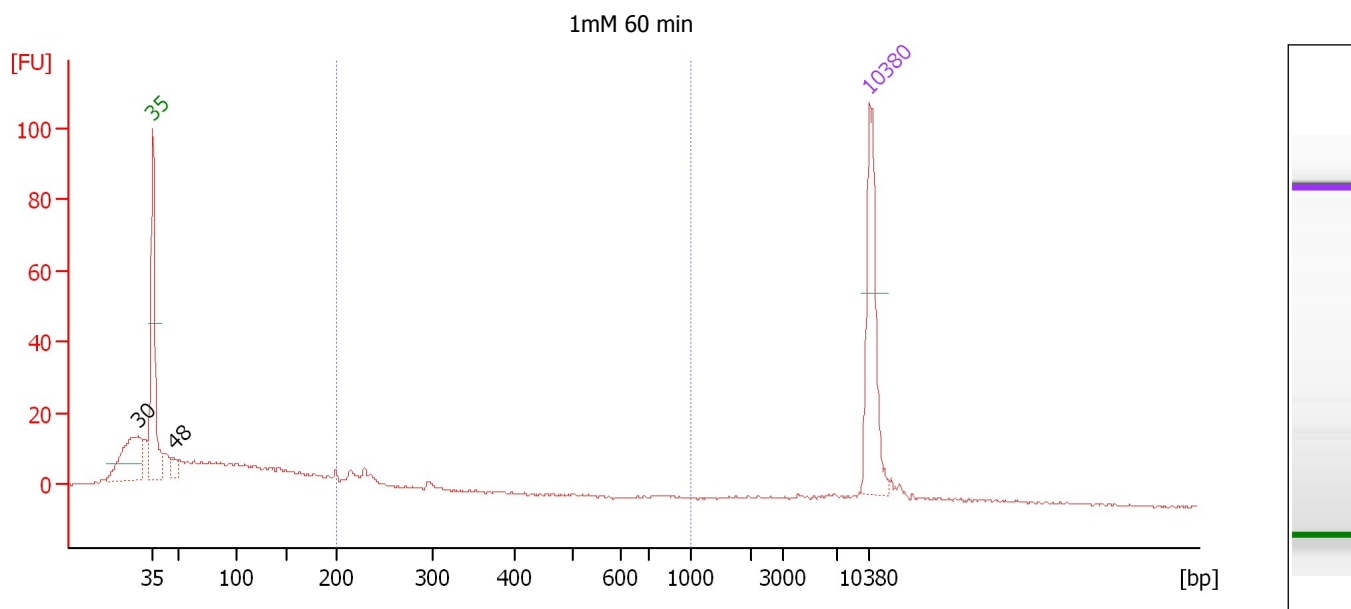
Region table for sample 6 : 1mM 30min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
21	250	17.9	126.35	782.9	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : 1mM 60 min

Number of peaks found: 2 Corr. Area 1: 36.6
 Noise: 0.4

Peak table for sample 7 : 1mM 60 min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	13.48	429.2	
4	10,380	75.00	10.9	Upper Marker

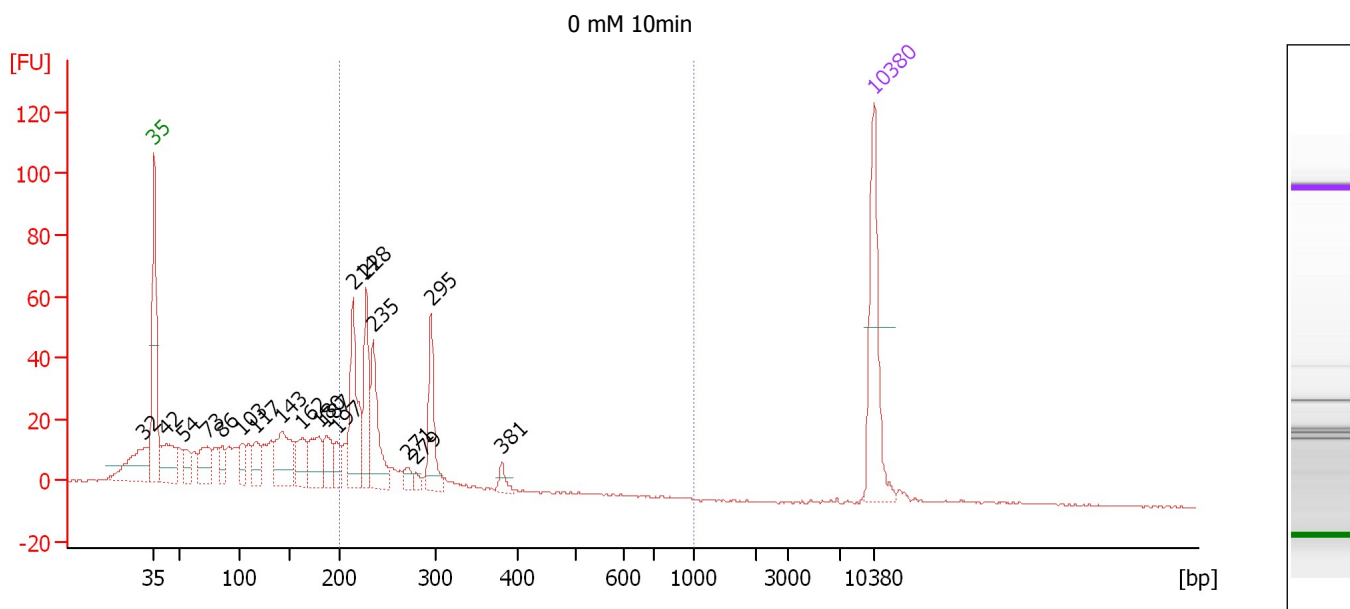
Region table for sample 7 : 1mM 60 min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
11	242	15.0	44.71	282.4	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
 Modified: 11/1/2017 6:52:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 0 mM 10min

Number of peaks found: 19 Corr. Area 1: 322.9
 Noise: 0.4

Peak table for sample 8 : 0 mM 10min

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	42	62.82	2,262.7	
4	54	24.69	690.6	
5	73	45.22	933.6	
6	86	22.07	389.3	
7	103	23.40	344.7	
8	117	30.58	397.6	
9	143	72.78	772.6	
10	162	36.11	336.9	
11	180	45.18	381.3	
12	187	32.54	263.6	
13	197	20.14	154.7	
14	214	92.44	653.7	
15	228	66.06	438.9	
16	235	71.42	460.0	
17	271	10.21	57.2	
18	279	5.32	28.8	
19	295	55.26	283.9	
20	381	9.70	38.6	
21	10,380	75.00	10.9	Upper Marker

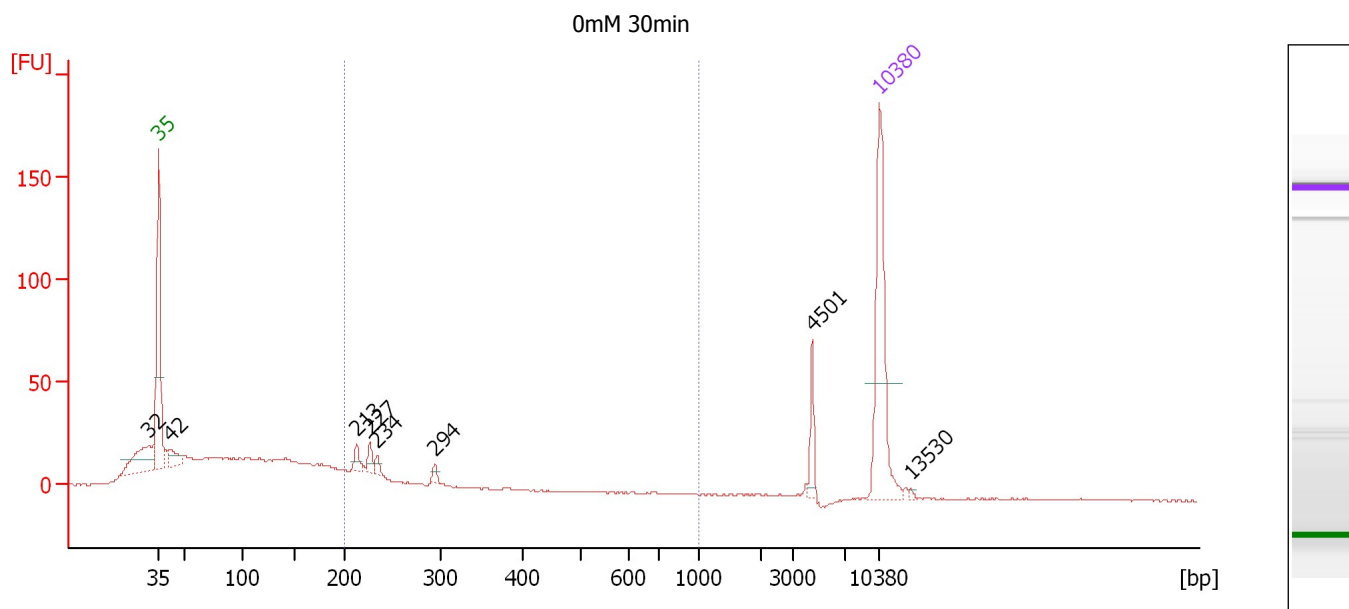
Region table for sample 8 : 0 mM 10min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
38	250	17.1	351.96	2,165.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : 0mM 30min

Number of peaks found: 8 Corr. Area 1: 126.1
 Noise: 0.4

Peak table for sample 9 : 0mM 30min

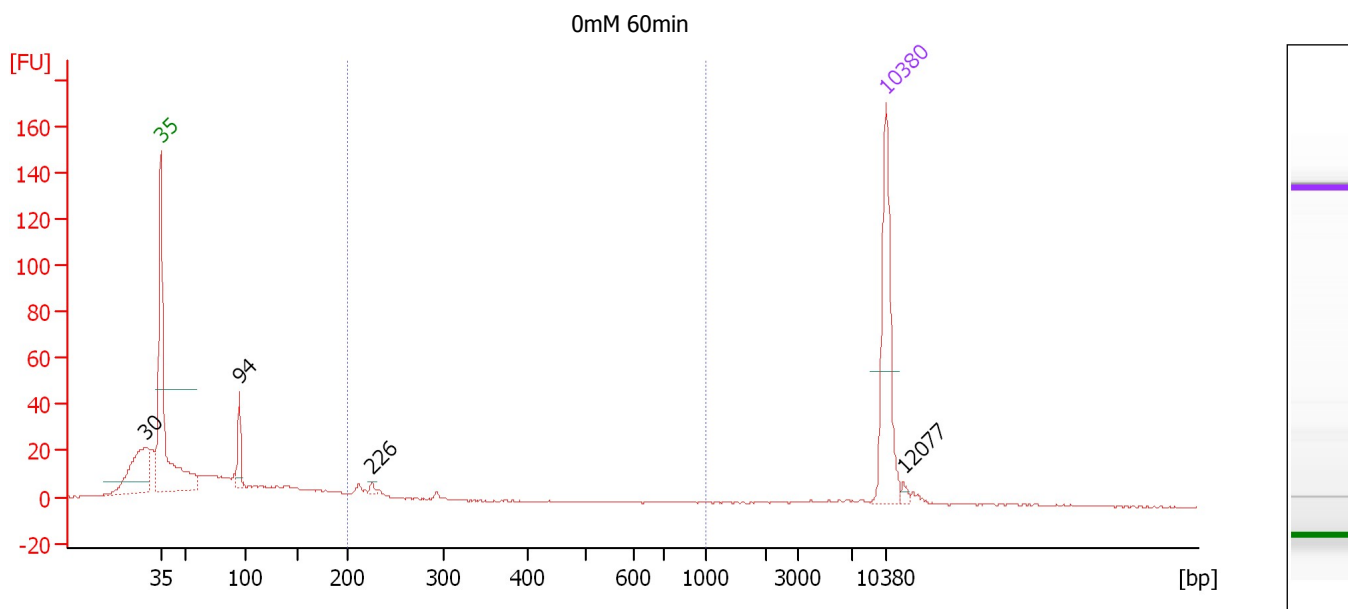
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	20.00	726.0	
4	213	9.27	65.8	
5	227	9.00	60.0	
6	234	5.23	33.8	
7	294	4.65	24.0	
8	4,501	13.77	4.6	
9	10,380	75.00	10.9	Upper Marker
10	13,530	0.00	0.0	

Region table for sample 9 : 0mM 30min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
17	249	20.0	94.56	589.1	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
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Electropherogram Summary Continued ...**Overall Results for sample 10 : 0mM 60min**

Number of peaks found: 4 Corr. Area 1: 38.6
 Noise: 0.3

Peak table for sample 10 : 0mM 60min

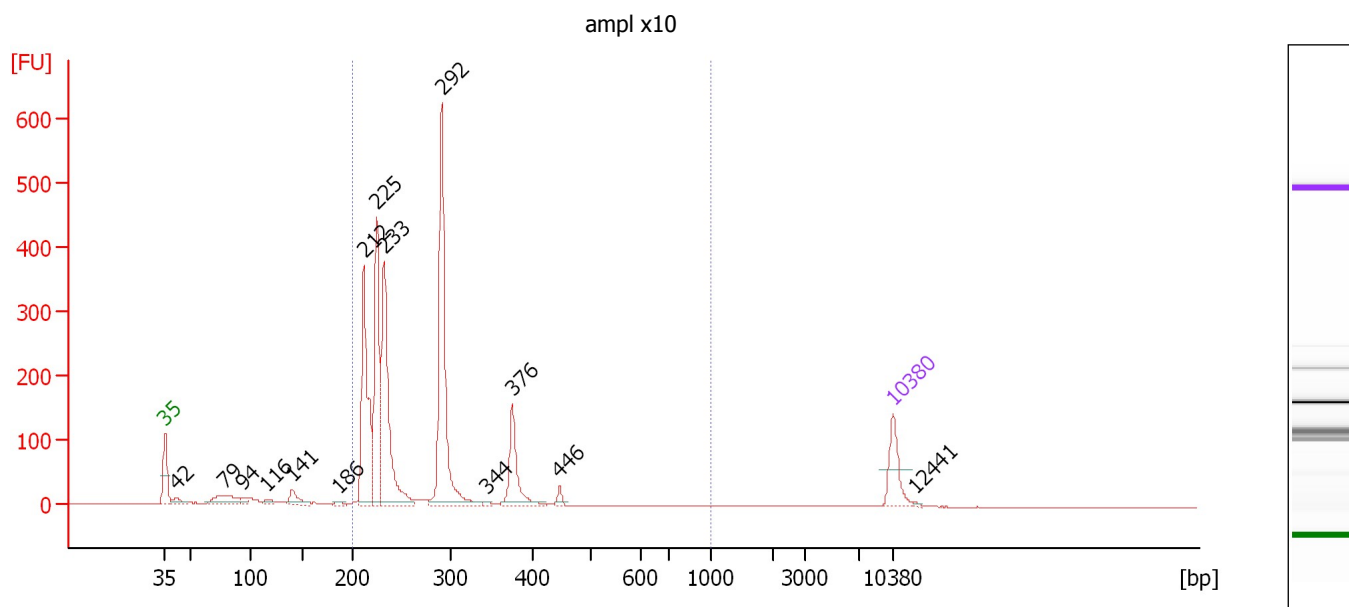
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	94	29.66	476.5	
4	226	3.80	25.5	
5	10,380	75.00	10.9	Upper Marker
6	12,077	0.00	0.0	

Region table for sample 10 : 0mM 60min

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
9	269	47.5	32.86	205.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
 Modified: 11/1/2017 6:52:59 AM

Electropherogram Summary Continued ...**Overall Results for sample 11 : ampl x10**

Number of peaks found: 14 Corr. Area 1: 2,101.7
 Noise: 0.4

Peak table for sample 11 : ampl x10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	30.17	1,080.7	
3	79	82.99	1,590.5	
4	94	18.51	299.5	
5	116	16.71	218.6	
6	141	47.78	514.4	
7	186	8.42	68.6	
8	212	404.25	2,891.4	
9	225	359.94	2,418.6	
10	233	454.94	2,963.6	
11	292	556.45	2,891.4	
12	344	6.75	29.7	
13	376	144.44	582.6	
14	446	15.41	52.4	
15	10,380	75.00	10.9	Upper Marker
16	12,441	0.00	0.0	

Region table for sample 11 : ampl x10

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
89	267	23.1	1,943.39	11,445.8	200	1,000

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-01_06-08-16.xad

Created: 11/1/2017 6:08:16 AM
Modified: 11/1/2017 6:52:59 AM

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