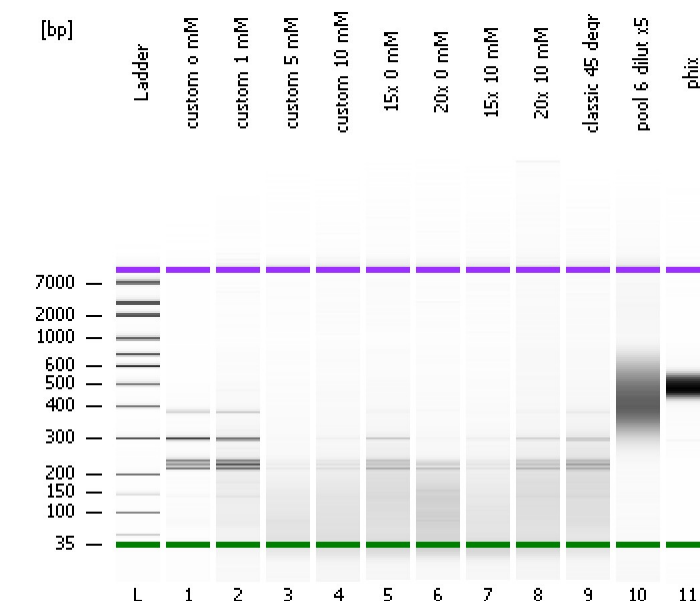


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
Modified: 11/2/2017 2:48:33 AM

Electrophoresis File Run Summary



Instrument Information:

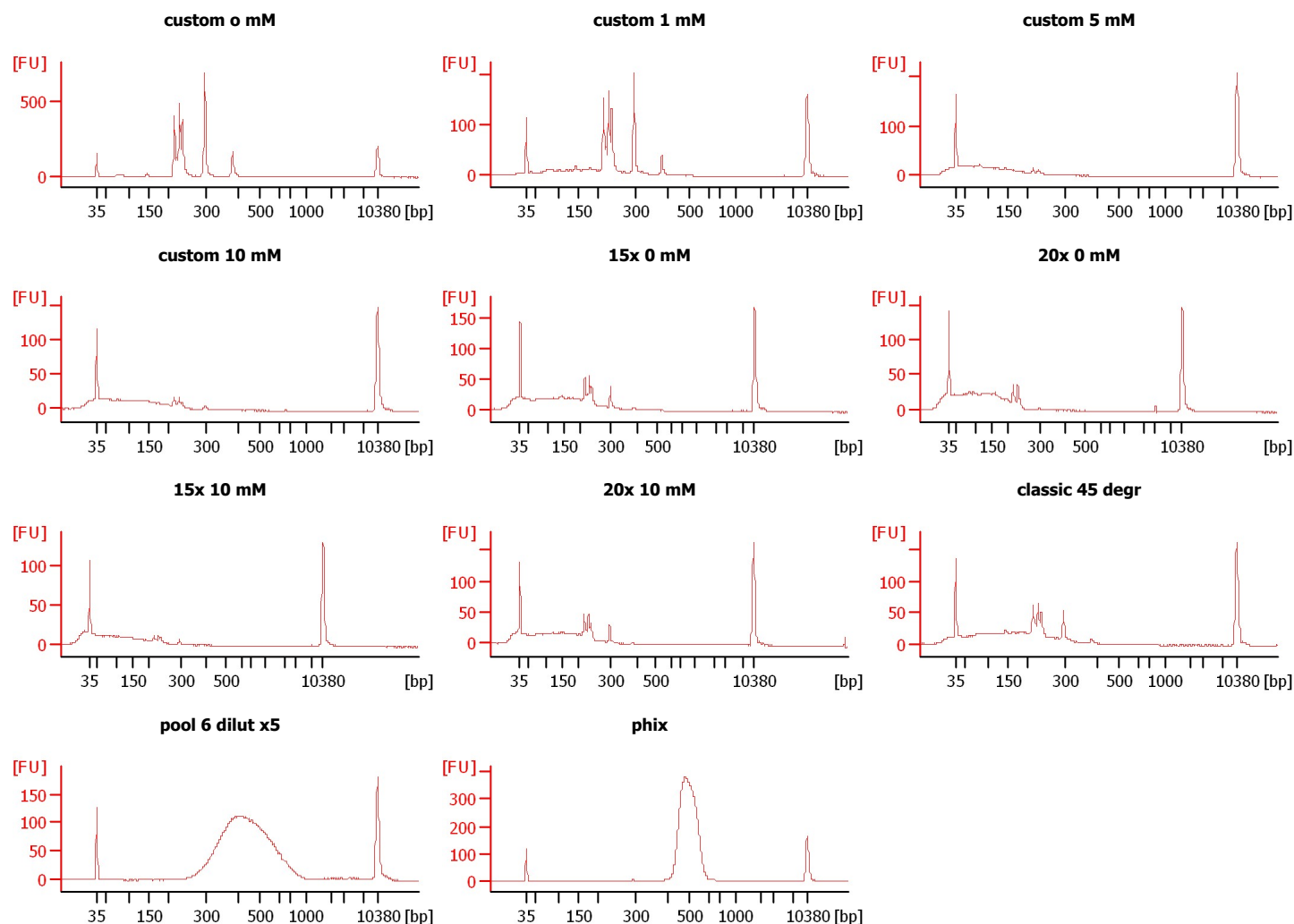
Instrument Name: DE34903402 Firmware: C.01.069
Serial#: DE34903402 Type: G2938C

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_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
Modified: 11/2/2017 2:48:33 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status Observation	Result Label	Result Color
custom 0 mM		☐	✓		
custom 1 mM		☐	✓		
custom 5 mM		☐	✓		
custom 10 mM		☐	✓		
15x 0 mM		☐	✓		
20x 0 mM		☐	✓		
15x 10 mM		☐	✓		
20x 10 mM		☐	✓		
classic 45 degr		☐	✓		
pool 6 dilut x5		☐	✓		
phix		☐	✓		
Ladder		☐	✓		

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
Modified: 11/2/2017 2:48:33 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

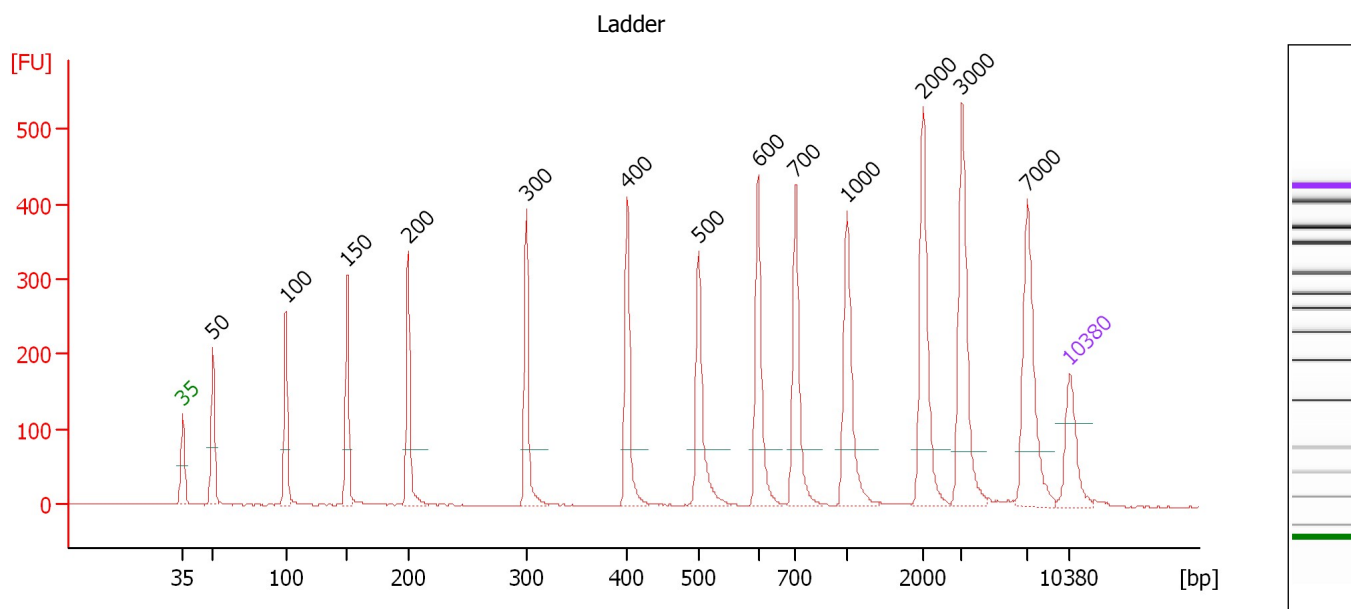
Ladder

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_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.5

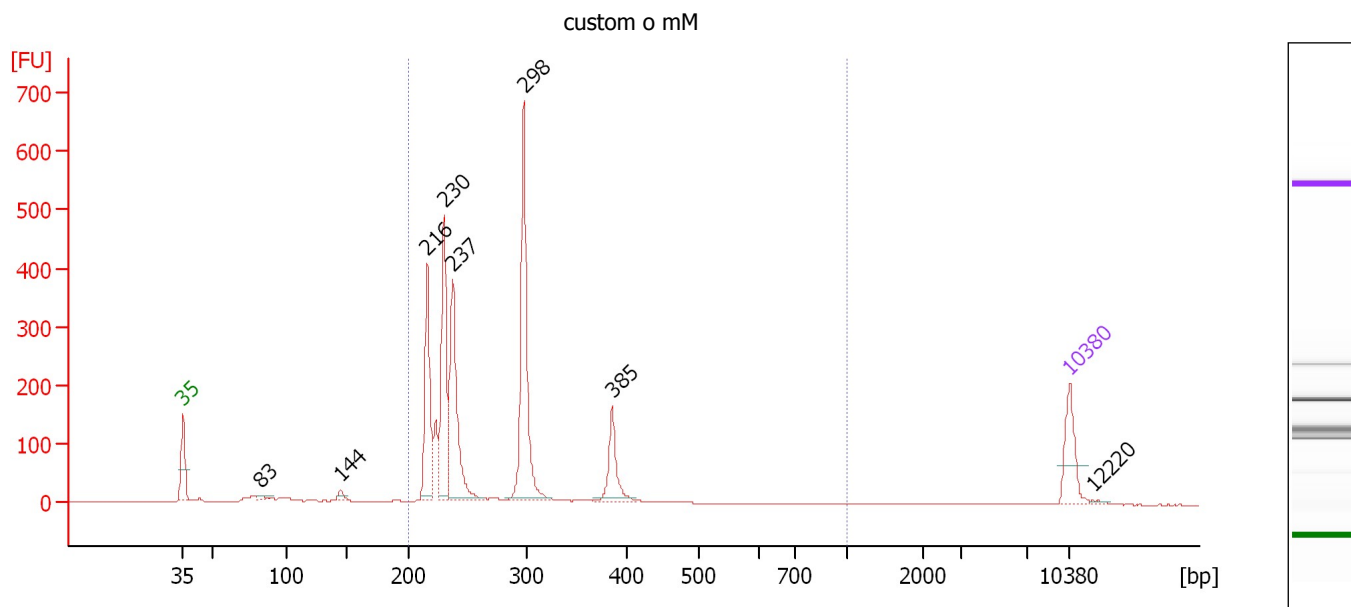
Peak table for Ladder

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_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : custom o mM

Number of peaks found: 8 Corr. Area 1: 2,066.9
 Noise: 0.6

Peak table for sample 1 : custom o mM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	7.56	138.2	
3	144	12.05	126.4	
4	216	249.15	1,747.6	
5	230	285.17	1,877.4	
6	237	309.10	1,972.2	
7	298	401.21	2,042.3	
8	385	97.05	382.3	
9	10,380	75.00	10.9	Upper Marker
10	12,220	0.00	0.0	

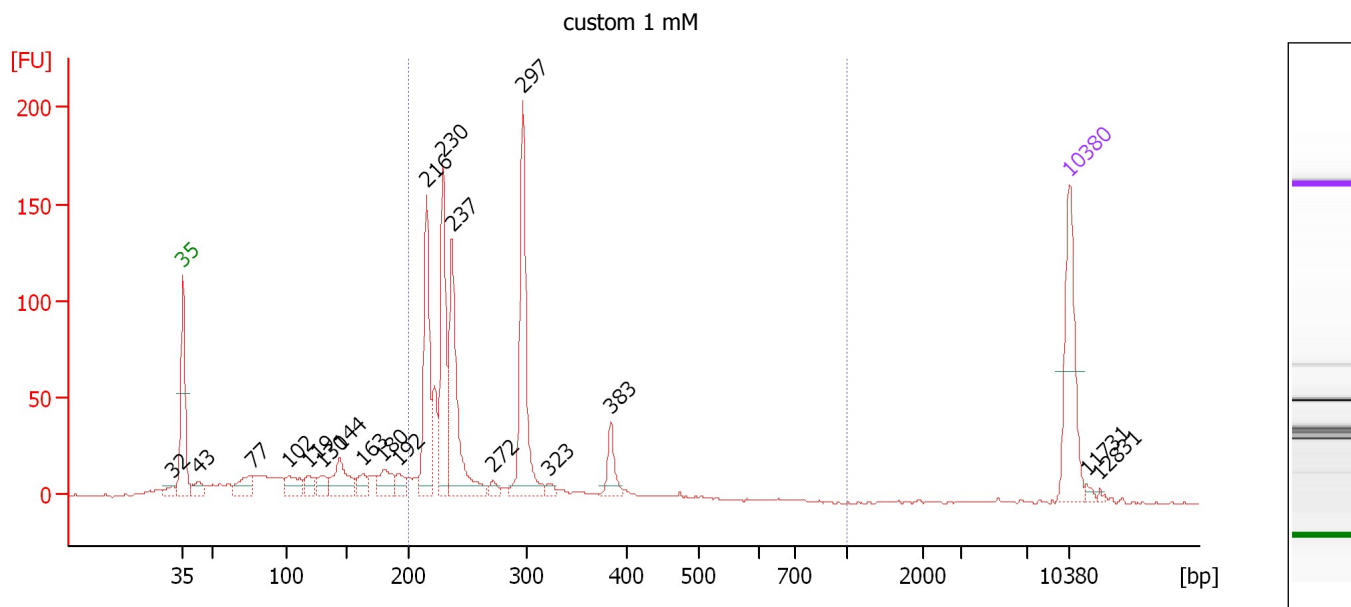
Region table for sample 1 : custom o mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
90	273	22.7	1,535.73	8,871.1	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : custom 1 mM

Number of peaks found: 19 Corr. Area 1: 762.9
 Noise: 0.5

Peak table for sample 2 : custom 1 mM

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	43	20.56	727.5	
4	77	30.87	609.0	
5	102	28.97	429.1	
6	119	16.22	207.2	
7	130	19.18	222.9	
8	144	50.11	526.6	
9	163	18.89	175.6	
10	180	28.72	241.9	
11	192	14.93	118.0	
12	216	125.99	885.5	
13	230	128.10	844.6	
14	237	151.84	970.0	
15	272	8.19	45.7	
16	297	151.90	775.8	
17	323	5.92	27.8	
18	383	25.42	100.5	
19	10,380	75.00	10.9	Upper Marker
20	11,731	0.00	0.0	
21	12,831	0.00	0.0	

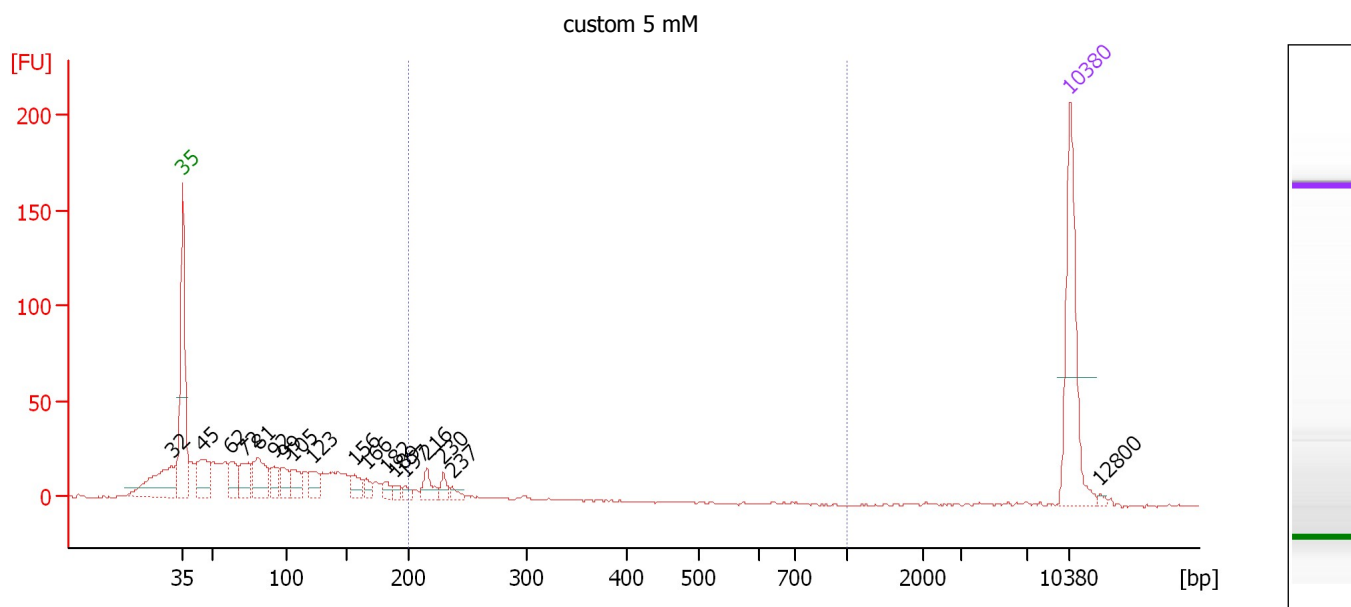
Region table for sample 2 : custom 1 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
68	267	22.5	698.41	4,118.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : custom 5 mM

Number of peaks found: 18 Corr. Area 1: 73.6
 Noise: 0.6

Peak table for sample 3 : custom 5 mM

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	45	46.65	1,579.0	
4	62	26.38	642.9	
5	72	32.46	686.9	
6	81	48.52	902.4	
7	92	18.88	311.7	
8	99	21.97	337.6	
9	105	23.82	343.7	
10	123	19.57	242.0	
11	156	17.23	167.4	
12	166	9.85	90.1	
13	182	9.22	76.9	
14	189	5.80	46.4	
15	197	5.52	42.4	
16	216	16.43	115.2	
17	230	9.68	63.8	
18	237	6.04	38.6	
19	10,380	75.00	10.9	Upper Marker
20	12,800	0.00	0.0	

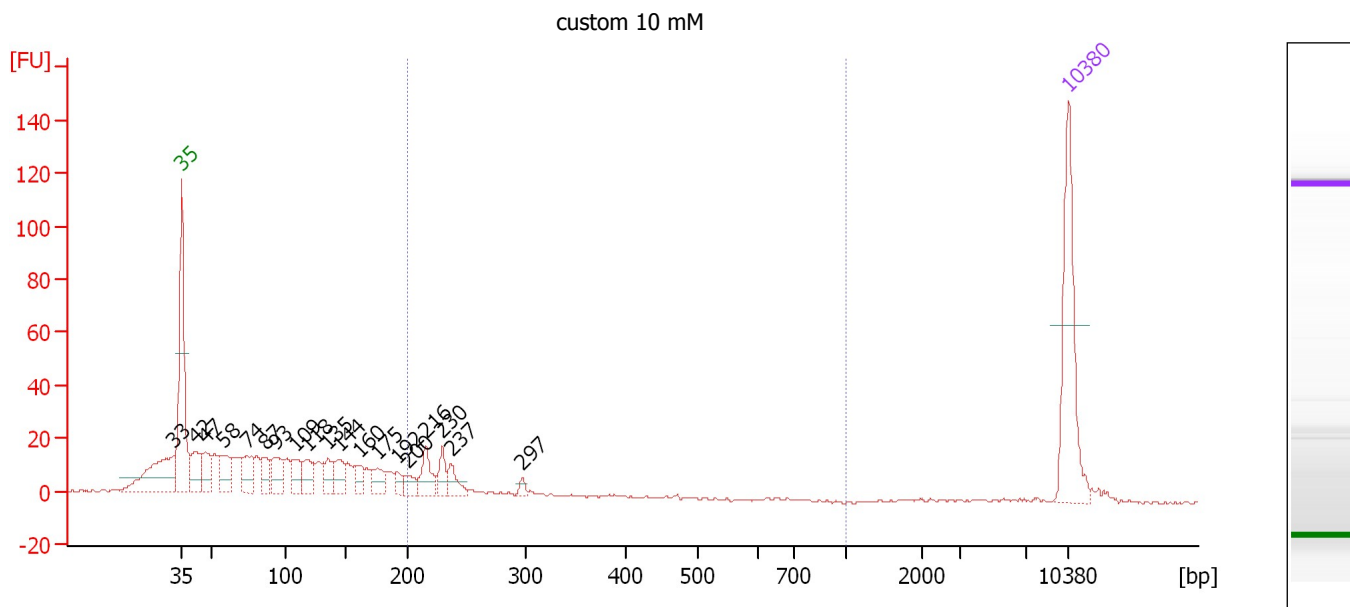
Region table for sample 3 : custom 5 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
10	248	22.3	54.25	342.6	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : custom 10 mM

Number of peaks found: 19 Corr. Area 1: 92.5
 Noise: 0.5

Peak table for sample 4 : custom 10 mM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	39.34	1,409.6	
4	47	31.83	1,032.5	
5	58	31.56	830.3	
6	74	33.72	690.8	
7	87	20.60	359.2	
8	93	31.16	508.0	
9	109	21.37	296.9	
10	118	25.75	331.0	
11	135	18.21	203.6	
12	144	22.95	241.1	
13	160	15.35	145.1	
14	175	18.02	155.8	
15	192	9.65	76.2	
16	200	11.56	87.5	
17	216	25.35	178.2	
18	230	16.76	110.4	
19	237	15.47	98.9	
20	297	5.01	25.6	
21	10,380	75.00	10.9	Upper Marker

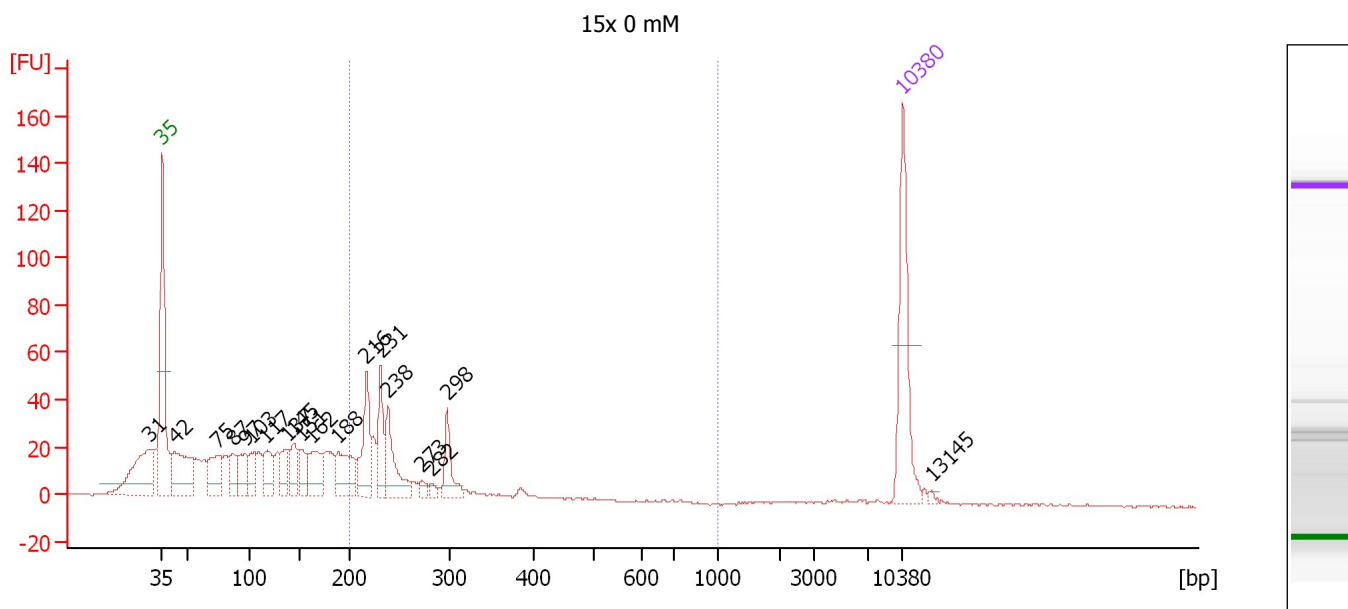
Region table for sample 4 : custom 10 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
15	251	25.0	88.16	554.4	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : 15x 0 mM

Number of peaks found: 19 Corr. Area 1: 305.2
 Noise: 0.4

Peak table for sample 5 : 15x 0 mM

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	42	92.42	3,305.8	
4	75	54.63	1,105.3	
5	87	30.10	523.8	
6	97	37.51	585.3	
7	103	26.41	389.2	
8	117	40.99	528.9	
9	137	27.19	300.1	
10	145	33.01	345.9	
11	151	27.71	277.3	
12	162	46.57	434.5	
13	188	57.32	462.0	
14	216	63.85	447.5	
15	231	46.13	303.0	
16	238	55.61	354.4	
17	273	7.05	39.1	
18	282	5.62	30.2	
19	298	33.49	170.2	
20	10,380	75.00	10.9	Upper Marker
21	13,145	0.00	0.0	

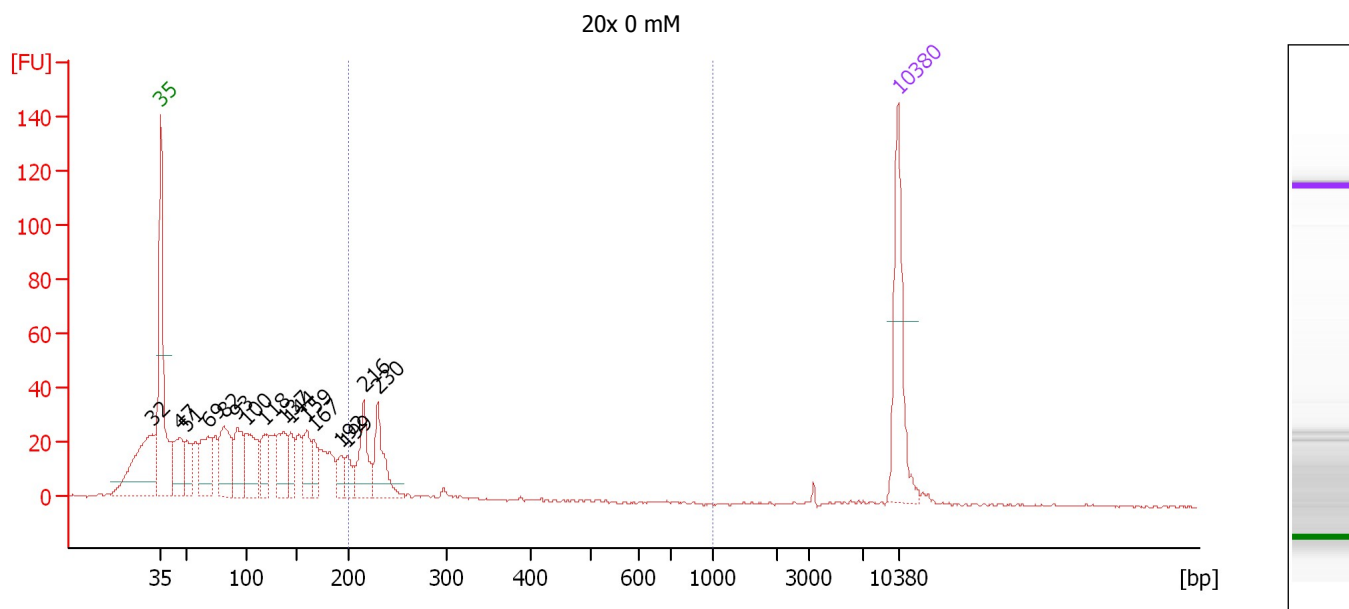
Region table for sample 5 : 15x 0 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
29	255	20.4	275.63	1,687.0	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 20x 0 mM

Number of peaks found: 16 Corr. Area 1: 150.0
 Noise: 0.5

Peak table for sample 6 : 20x 0 mM

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	47	64.36	2,093.8	
4	51	37.12	1,102.4	
5	69	69.22	1,530.7	
6	82	87.36	1,621.3	
7	93	60.87	996.2	
8	100	78.80	1,199.0	
9	118	40.20	516.8	
10	137	55.81	618.3	
11	144	33.00	348.2	
12	159	41.12	391.0	
13	167	30.42	276.5	
14	192	19.43	153.0	
15	199	21.33	162.2	
16	216	58.71	411.8	
17	230	55.73	367.0	
18	10,380	75.00	10.9	Upper Marker

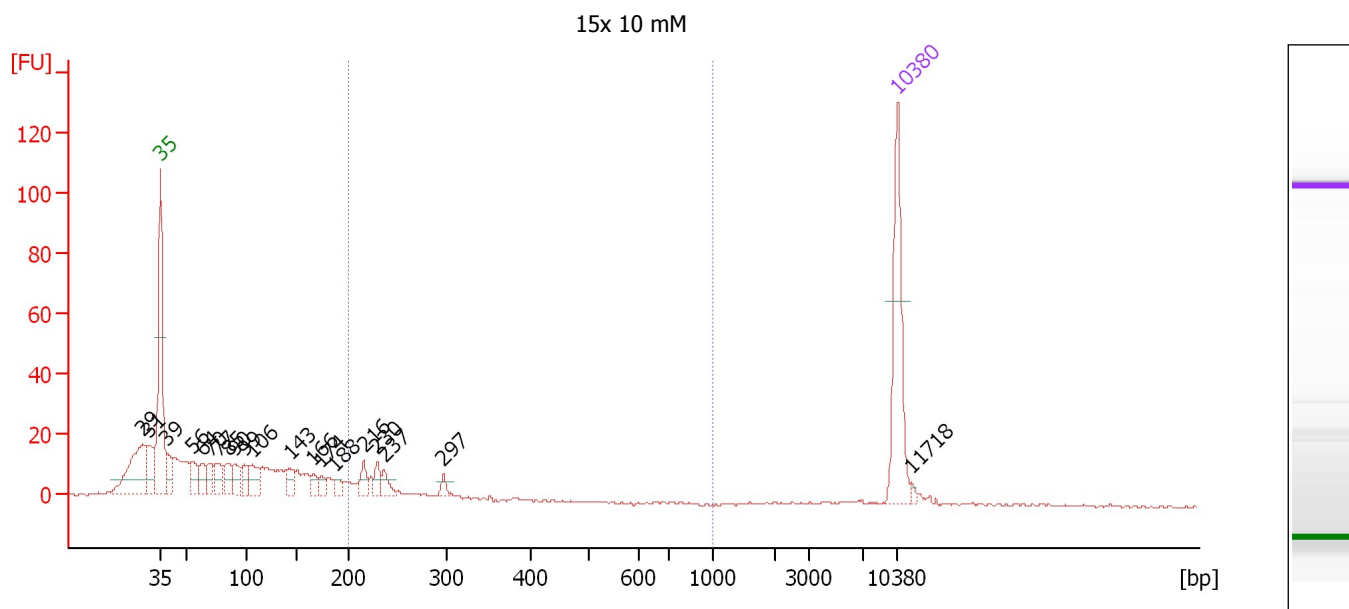
Region table for sample 6 : 20x 0 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
15	239	21.2	153.36	1,001.8	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 15x 10 mM

Number of peaks found: 20 Corr. Area 1: 71.2
 Noise: 0.4

Peak table for sample 7 : 15x 10 mM

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	39	31.41	1,234.9	
5	56	25.72	692.5	
6	64	21.05	500.4	
7	70	20.85	449.3	
8	77	25.30	495.9	
9	85	23.22	413.0	
10	90	20.96	354.6	
11	99	18.73	287.4	
12	106	27.62	395.4	
13	143	17.60	186.2	
14	166	11.86	108.4	
15	174	9.80	85.5	
16	188	9.06	73.1	
17	216	14.98	105.0	
18	230	12.66	83.5	
19	237	12.61	80.7	
20	297	7.03	35.9	
21	10,380	75.00	10.9	Upper Marker
22	11,718	0.00	0.0	

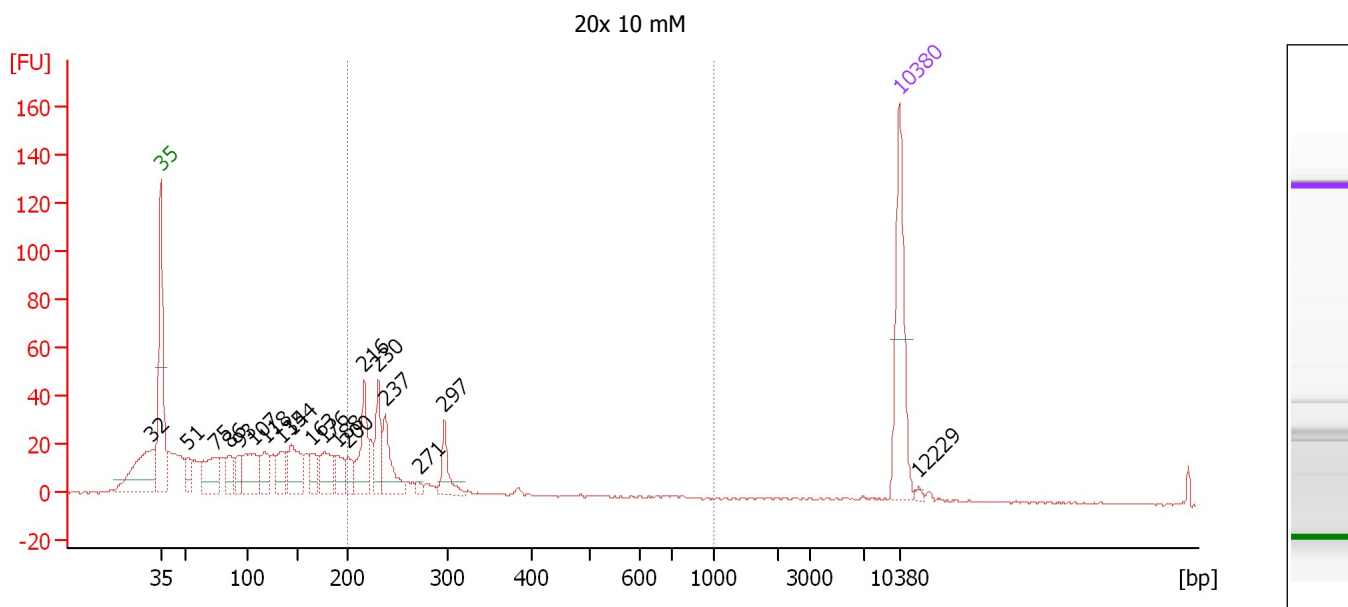
Region table for sample 7 : 15x 10 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
13	244	15.0	84.84	532.4	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 20x 10 mM

Number of peaks found: 19 Corr. Area 1: 254.4
 Noise: 0.5

Peak table for sample 8 : 20x 10 mM

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	51	23.70	698.2	
4	75	58.32	1,178.1	
5	86	30.79	540.1	
6	93	23.41	379.9	
7	107	61.81	873.3	
8	118	32.55	418.9	
9	135	31.64	355.0	
10	144	54.74	574.1	
11	163	26.43	245.2	
12	176	38.84	334.6	
13	188	23.84	191.6	
14	200	18.36	139.1	
15	216	57.56	403.3	
16	230	41.69	274.3	
17	237	45.81	292.5	
18	271	4.65	26.0	
19	297	28.85	147.0	
20	10,380	75.00	10.9	Upper Marker
21	12,229	0.00	0.0	

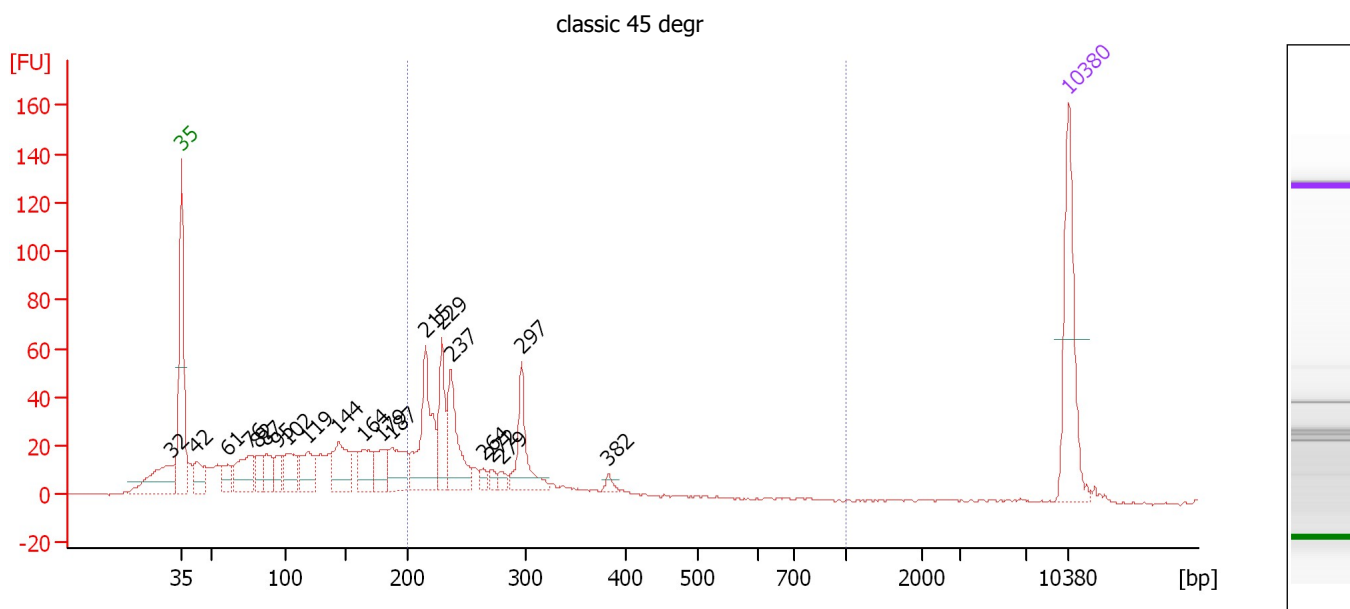
Region table for sample 8 : 20x 10 mM

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
28	253	23.7	236.40	1,463.7	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : classic 45 degr

Number of peaks found: 21 Corr. Area 1: 472.3
 Noise: 0.5

Peak table for sample 9 : classic 45 degr

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	30.15	1,079.1	
4	61	23.08	570.8	
5	76	53.42	1,070.8	
6	82	23.81	441.7	
7	87	24.94	432.8	
8	95	22.84	363.9	
9	102	40.91	607.9	
10	119	40.47	517.0	
11	144	52.06	549.2	
12	164	39.33	362.4	
13	179	34.66	294.2	
14	187	44.65	361.1	
15	215	100.85	709.3	
16	229	54.82	362.1	
17	237	70.27	449.4	
18	264	8.08	46.3	
19	272	6.91	38.5	
20	279	6.67	36.2	
21	297	53.62	274.0	
22	382	4.99	19.8	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...

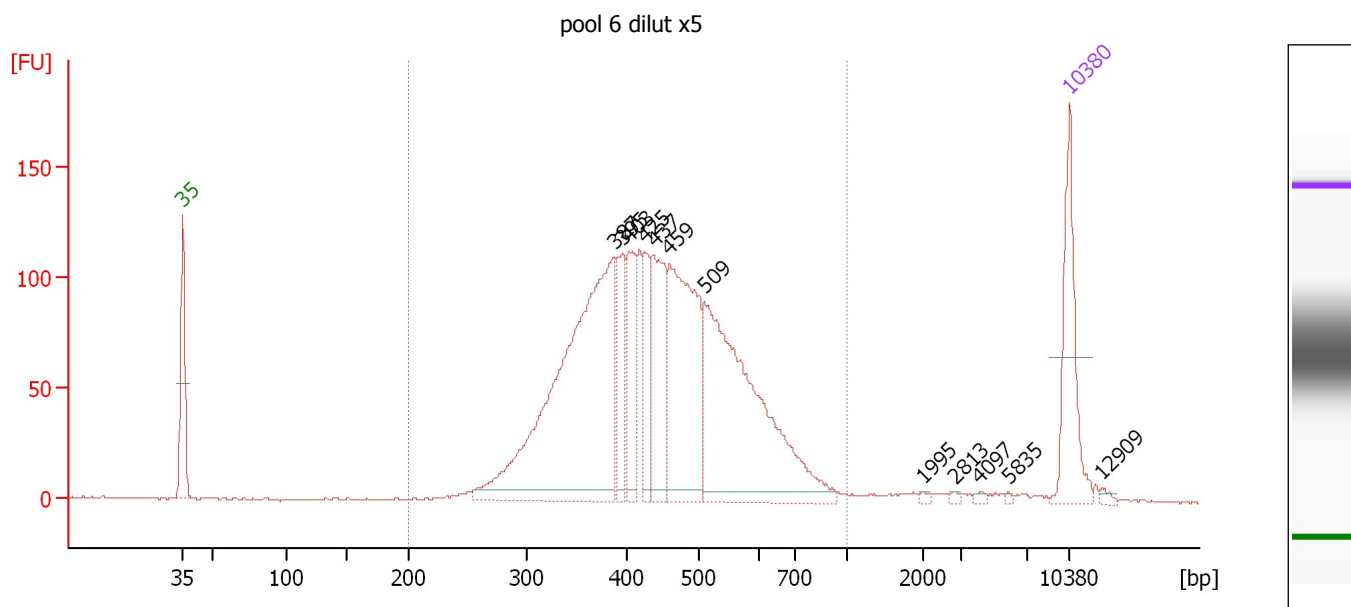
... Region table for sample 9 : classic 45 degr

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
41	286	36.3	430.76	2,500.3	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
 Modified: 11/2/2017 2:48:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : pool 6 dilut x5

Number of peaks found: 12 Corr. Area 1: 2,244.1
 Noise: 0.4

Peak table for sample 10 : pool 6 dilut x5

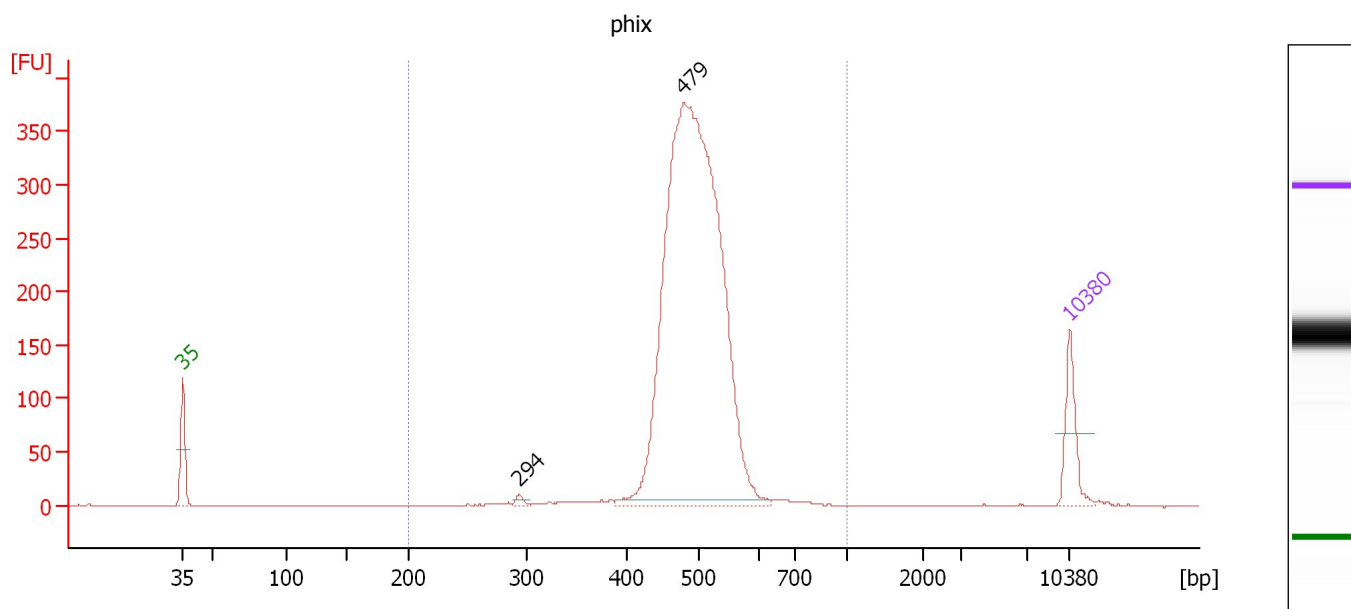
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	387	480.91	1,883.3	
3	395	61.39	235.5	
4	403	75.51	284.1	
5	425	60.05	214.2	
6	437	115.62	400.8	
7	459	226.24	746.5	
8	509	343.60	1,022.1	
9	1,995	2.08	1.6	
10	2,813	2.07	1.1	
11	4,097	2.45	0.9	
12	5,835	1.44	0.4	
13	10,380	75.00	10.9	Upper Marker
14	12,909	0.00	0.0	

Region table for sample 10 : pool 6 dilut x5

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
95	451	24.2	1,461.63	5,288.0	200	1,000

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
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Electropherogram Summary Continued ...**Overall Results for sample 11 : phix**

Number of peaks found: 2 Corr. Area 1: 2,494.5
 Noise: 0.5

Peak table for sample 11 : phix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	294	8.18	42.2	
3	479	1,913.88	6,057.7	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : phix

% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	From [bp]	To [bp]
99	494	9.9	1,945.08	6,041.3	200	1,000

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE34903402_2017-11-02_01-59-48.xad

Created: 11/2/2017 1:59:47 AM
Modified: 11/2/2017 2:48:33 AM

Gel Image