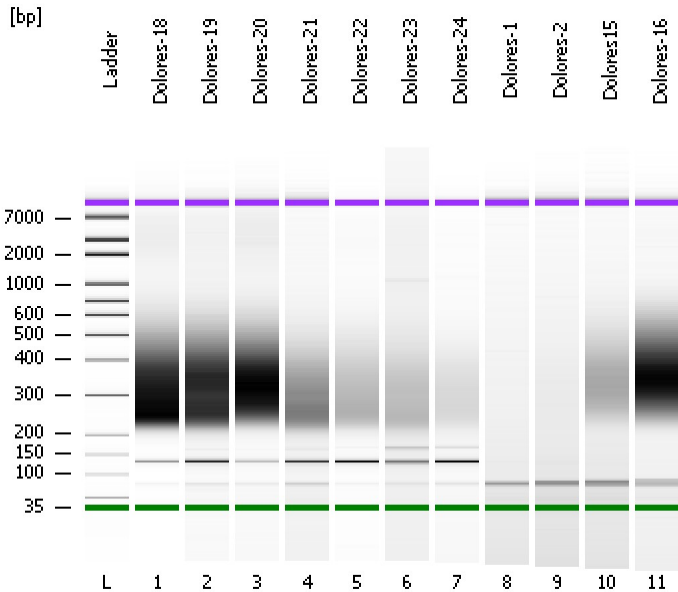


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
Modified: 1/27/2014 4:48:12 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

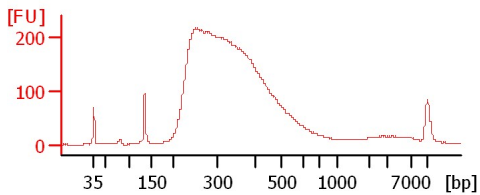
Assay Information:

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

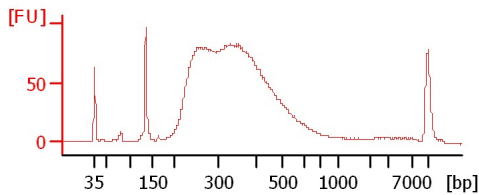
Chip Information:

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

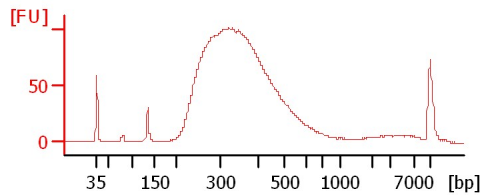
Dolores-18



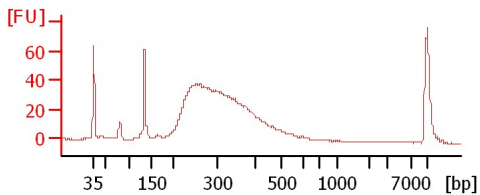
Dolores-19



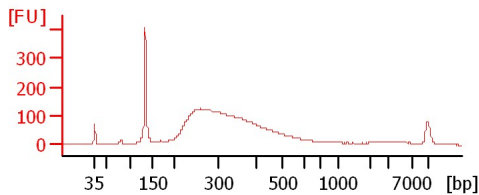
Dolores-20



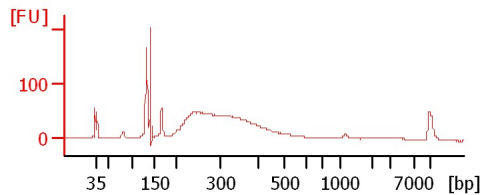
Dolores-21



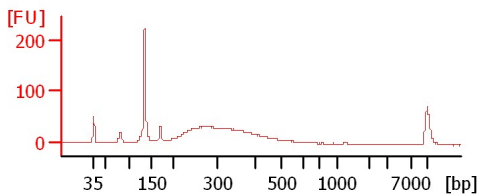
Dolores-22



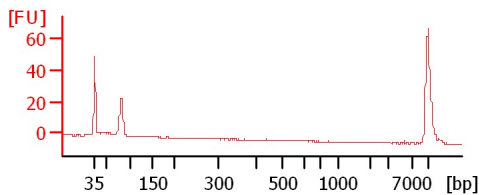
Dolores-23



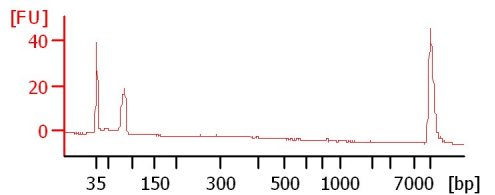
Dolores-24



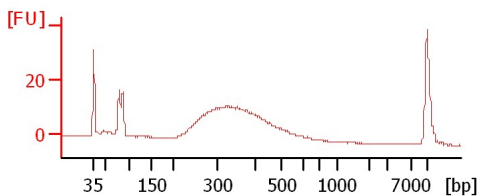
Dolores-1



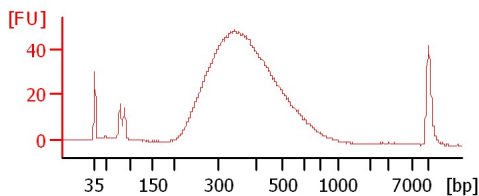
Dolores-2



Dolores15



Dolores-16



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
Modified: 1/27/2014 4:48:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Dolores-18		<input type="checkbox"/>	✓			
Dolores-19		<input type="checkbox"/>	✓			
Dolores-20		<input type="checkbox"/>	✓			
Dolores-21		<input type="checkbox"/>	✓			
Dolores-22		<input type="checkbox"/>	✓			
Dolores-23		<input type="checkbox"/>	✓			
Dolores-24		<input type="checkbox"/>	✓			
Dolores-1		<input type="checkbox"/>	✓			
Dolores-2		<input type="checkbox"/>	✓			
Dolores15		<input type="checkbox"/>	✓			
Dolores-16		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
Modified: 1/27/2014 4:48:12 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

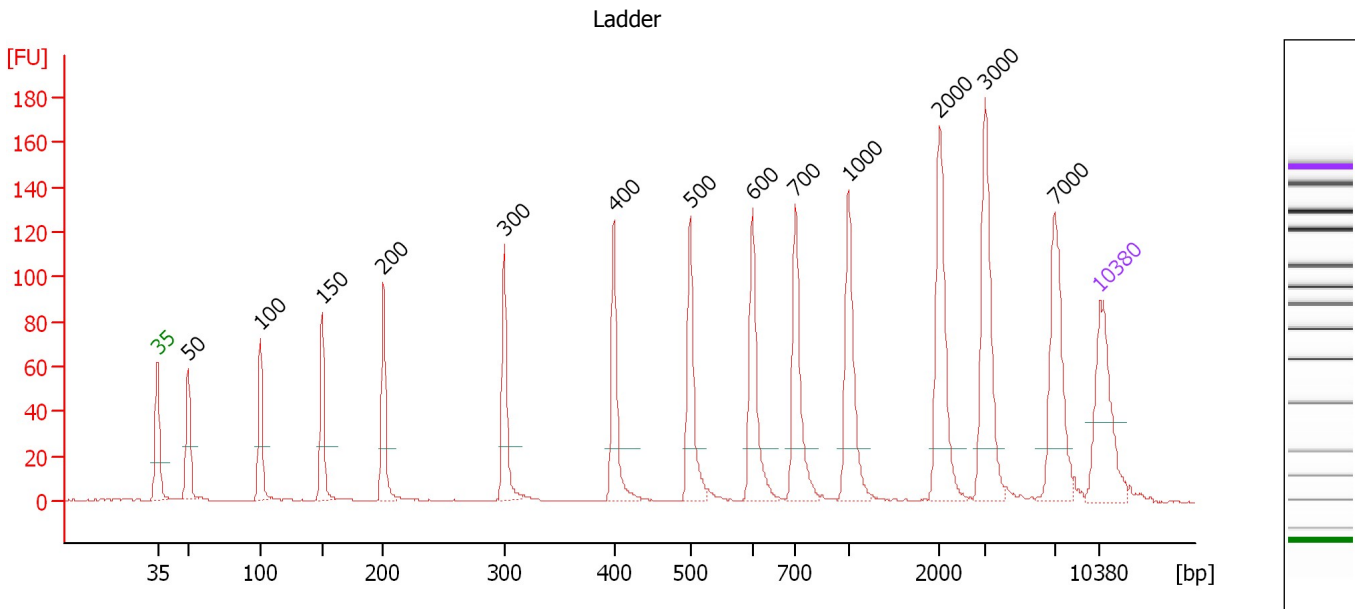
Ladder

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:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

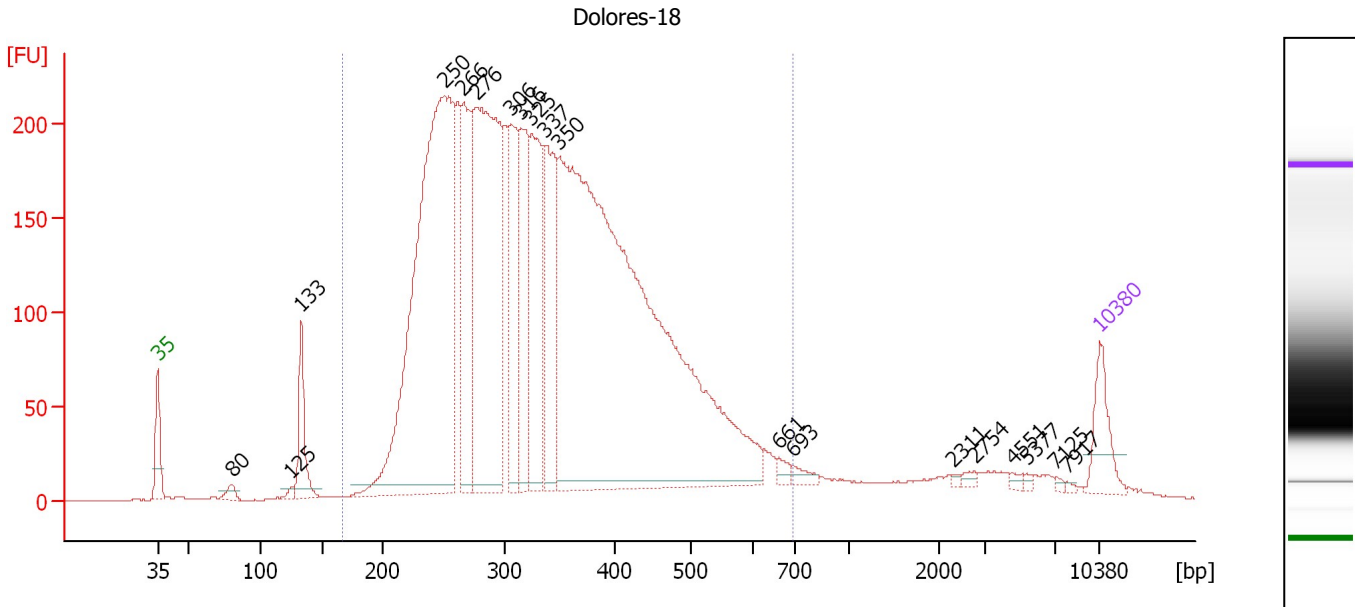
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.26	50	150.00	4,545.5	Ladder Peak
3	50.65	100	150.00	2,272.7	Ladder Peak
4	55.21	150	150.00	1,515.2	Ladder Peak
5	59.77	200	150.00	1,136.4	Ladder Peak
6	68.77	300	150.00	757.6	Ladder Peak
7	76.89	400	150.00	568.2	Ladder Peak
8	82.54	500	150.00	454.5	Ladder Peak
9	87.19	600	150.00	378.8	Ladder Peak
10	90.36	700	150.00	324.7	Ladder Peak
11	94.32	1,000	150.00	227.3	Ladder Peak
12	101.09	2,000	150.00	113.6	Ladder Peak
13	104.48	3,000	150.00	75.8	Ladder Peak
14	109.61	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Dolores-18

Number of peaks found: 19 Corr. Area 1: 5,585.1
 Noise: 0.1

Peak table for sample 1 : Dolores-18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.51	80	23.72	448.2	
3	52.92	125	12.18	147.7	
4	53.67	133	140.46	1,598.1	
5	64.26	250	1,588.38	9,630.5	
6	65.72	266	351.08	1,999.1	
7	66.64	276	986.70	5,409.2	
8	69.29	306	284.25	1,405.5	
9	70.04	316	274.77	1,318.9	
10	70.79	325	354.61	1,653.8	
11	71.76	337	317.31	1,427.4	
12	72.86	350	2,508.46	10,846.9	
13	89.14	661	16.28	37.3	
14	90.15	693	18.14	39.6	
15	102.15	2,311	4.04	2.7	
16	103.65	2,754	7.85	4.3	
17	106.47	4,551	7.53	2.5	
18	107.53	5,377	4.31	1.2	
19	109.74	7,125	4.63	1.0	
20	110.53	7,917	3.24	0.6	
21	113.00	10,380	75.00	10.9	Upper Marker

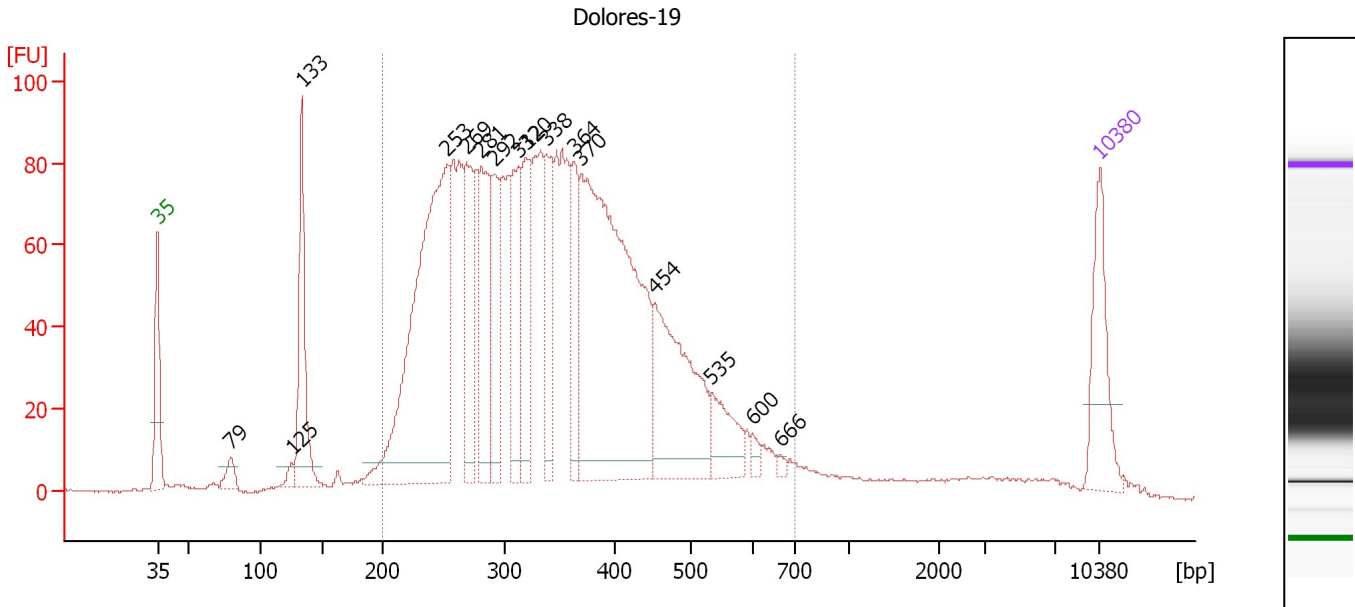
Region table for sample 1 : Dolores-18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
166	696	345	34,526.1	7,130.46	5,585.1	93	27.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Dolores-19

Number of peaks found: 16 Corr. Area 1: 2,336.5
 Noise: 0.3

Peak table for sample 2 : Dolores-19

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.44	79	21.09	402.2	
3	52.95	125	12.02	145.5	
4	53.70	133	162.90	1,850.2	
5	64.52	253	564.11	3,380.9	
6	65.97	269	124.63	702.3	
7	67.06	281	163.56	881.7	
8	68.07	292	99.78	517.3	
9	69.78	312	117.45	569.5	
10	70.35	320	118.82	563.5	
11	71.89	338	108.22	484.6	
12	73.99	364	85.78	356.8	
13	74.43	370	587.15	2,406.5	
14	79.95	454	217.11	724.3	
15	84.16	535	60.62	171.7	
16	87.18	600	9.39	23.7	
17	89.29	666	4.40	10.0	
18	113.00	10,380	75.00	10.9	Upper Marker

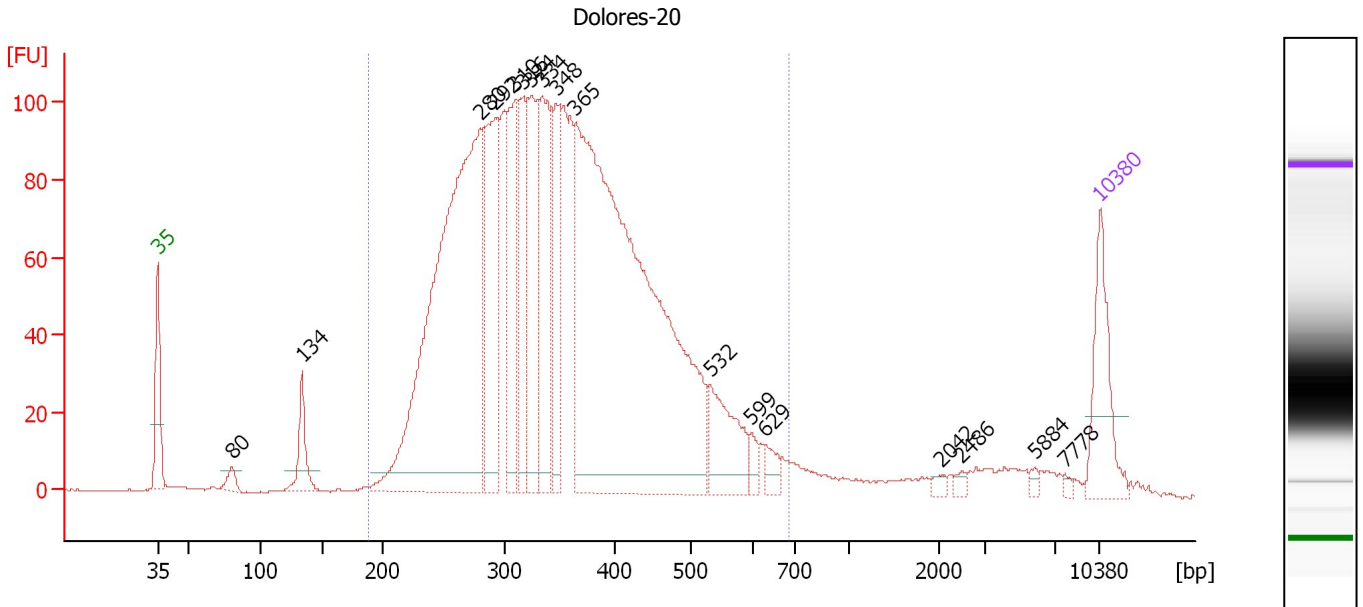
Region table for sample 2 : Dolores-19

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	698	353	15,021.5	3,173.46	2,336.5	89	27.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Dolores-20

Number of peaks found: 17 Corr. Area 1: 2,527.7
 Noise: 0.2

Peak table for sample 3 : Dolores-20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.53	80	16.14	304.4	
3	53.75	134	57.95	655.4	
4	66.97	280	828.21	4,481.7	
5	68.07	292	235.98	1,223.3	
6	69.58	310	145.33	710.4	
7	70.11	316	118.33	566.5	
8	70.73	324	160.87	752.0	
9	71.57	334	190.08	861.1	
10	72.63	348	116.07	506.1	
11	74.04	365	1,078.16	4,476.4	
12	84.04	532	94.24	268.3	
13	87.13	599	16.50	41.8	
14	88.10	629	18.19	43.8	
15	101.24	2,042	5.52	4.1	
16	102.74	2,486	5.42	3.3	
17	108.18	5,884	4.20	1.1	
18	110.39	7,778	3.45	0.7	
19	113.00	10,380	75.00	10.9	Upper Marker

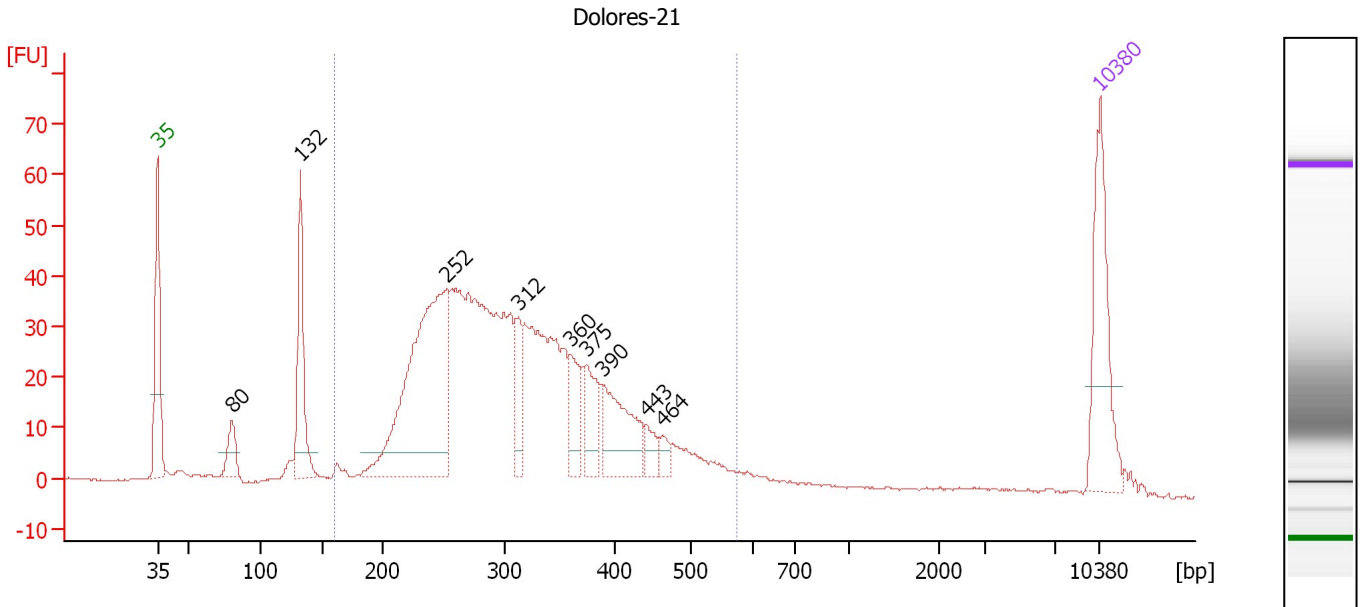
Region table for sample 3 : Dolores-20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
188	684	357	15,569.6	3,377.75	2,527.7	93	25.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Dolores-21

Number of peaks found: 9 Corr. Area 1: 888.1
 Noise: 0.3

Peak table for sample 4 : Dolores-21

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.52	80	30.47	575.1	
3	53.60	132	102.89	1,178.0	
4	64.42	252	301.10	1,812.8	
5	69.76	312	43.17	209.5	
6	73.64	360	36.25	152.6	
7	74.88	375	42.18	170.3	
8	76.09	390	75.18	292.0	
9	79.34	443	14.48	49.5	
10	80.49	464	10.12	33.1	
11	113.00	10,380	75.00	10.9	Upper Marker

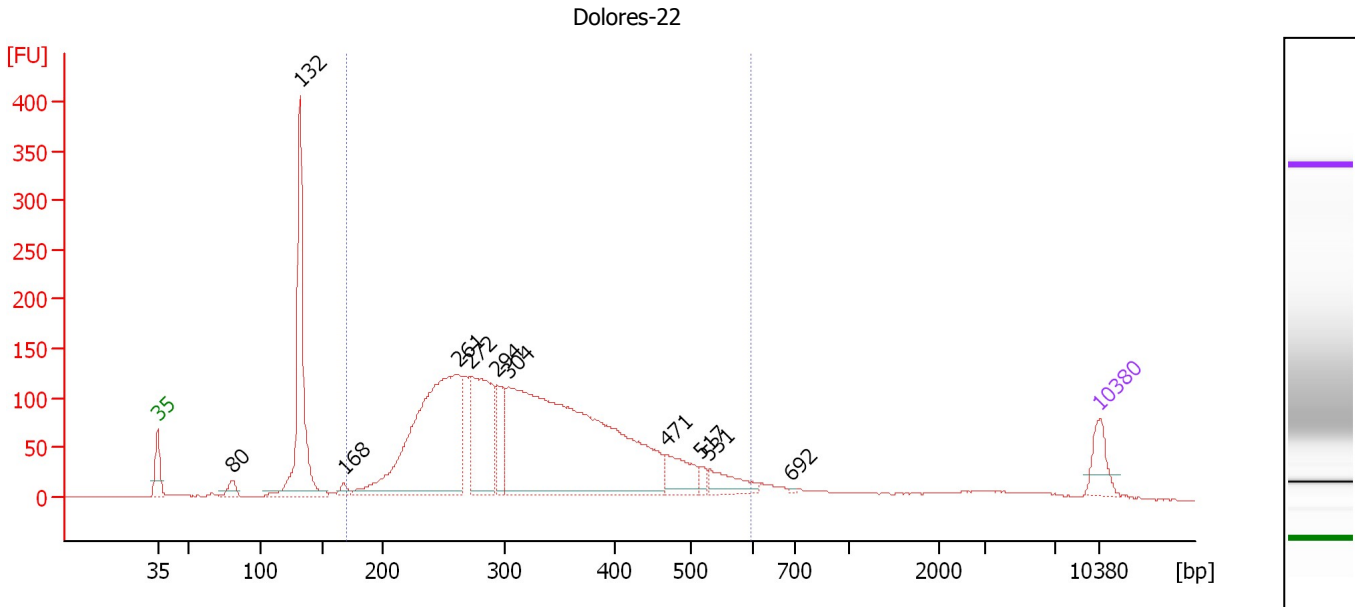
Region table for sample 4 : Dolores-21

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
161	575	318	6,524.7	1,262.65	888.1	85	24.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Dolores-22

Number of peaks found: 11 Corr. Area 1: 3,044.6
 Noise: 0.2

Peak table for sample 5 : Dolores-22

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.51	80	44.35	838.3	
3	53.57	132	753.48	8,647.2	
4	56.84	168	24.31	219.5	
5	65.30	261	1,167.03	6,762.0	
6	66.29	272	493.63	2,745.2	
7	68.26	294	157.76	812.0	
8	69.07	304	1,930.80	9,633.5	
9	80.89	471	132.09	425.1	
10	83.35	517	24.83	72.7	
11	83.98	531	93.25	266.1	
12	90.11	692	4.41	9.6	
13	113.00	10,380	75.00	10.9	Upper Marker

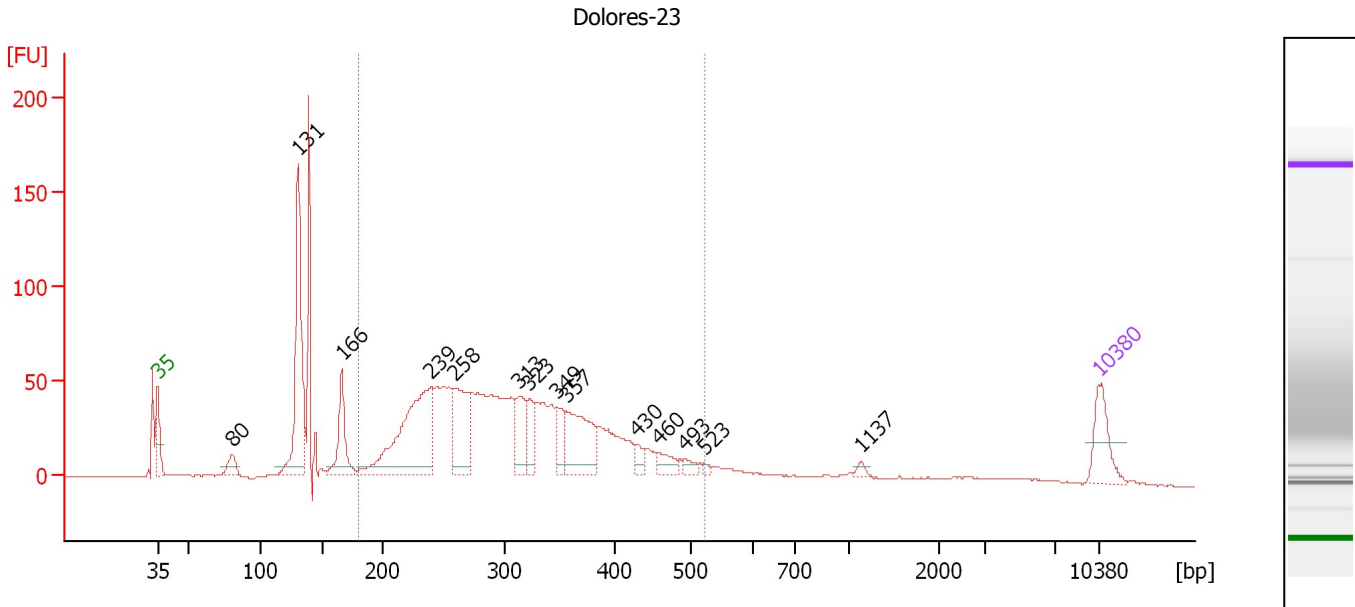
Region table for sample 5 : Dolores-22

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
171	598	332	21,018.5	4,201.76	3,044.6	81	26.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Dolores-23

Number of peaks found: 14 Corr. Area 1: 1,168.2
 Noise: 0.2

Peak table for sample 6 : Dolores-23

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.53	80	45.66	861.1	
3	53.48	131	436.09	5,044.2	
4	56.67	166	145.15	1,325.1	
5	63.32	239	460.96	2,916.7	
6	65.03	258	187.13	1,097.0	
7	69.84	313	99.69	482.3	
8	70.60	323	78.38	368.1	
9	72.72	349	65.48	284.6	
10	73.39	357	188.49	800.2	
11	78.61	430	27.69	97.5	
12	80.27	460	37.14	122.4	
13	82.16	493	19.12	58.7	
14	83.60	523	7.75	22.5	
15	95.24	1,137	9.19	12.3	
16	113.00	10,380	75.00	10.9	Upper Marker

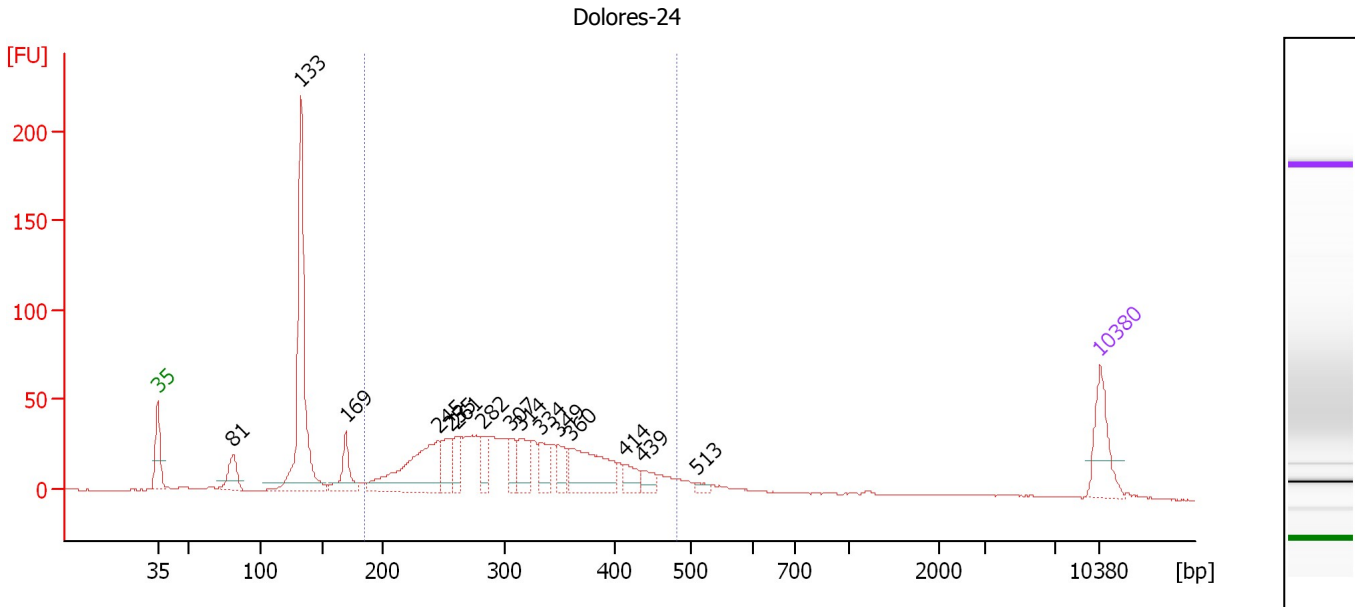
Region table for sample 6 : Dolores-23

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
180	524	315	12,555.8	2,419.99	1,168.2	69	23.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Dolores-24

Number of peaks found: 15 Corr. Area 1: 754.6
 Noise: 0.2

Peak table for sample 7 : Dolores-24

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.60	81	64.23	1,201.0	
3	53.66	133	482.60	5,494.9	
4	56.96	169	76.01	680.5	
5	63.83	245	231.38	1,430.1	
6	64.74	255	63.15	374.9	
7	65.28	261	46.93	272.2	
8	67.13	282	52.17	280.5	
9	69.30	307	40.76	201.4	
10	69.93	314	66.59	320.9	
11	71.52	334	48.11	218.3	
12	72.78	349	43.66	189.3	
13	73.64	360	155.11	652.9	
14	77.66	414	33.11	121.3	
15	79.11	439	25.60	88.3	
16	83.13	513	10.02	29.6	
17	113.00	10,380	75.00	10.9	Upper Marker

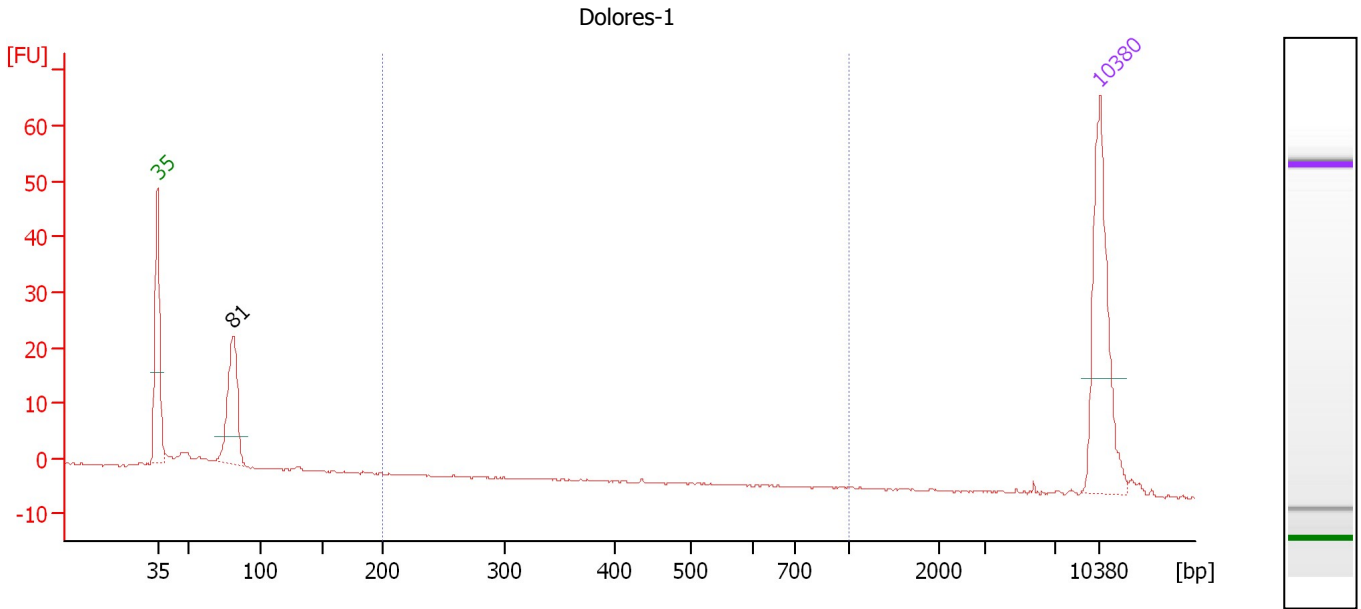
Region table for sample 7 : Dolores-24

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
184	483	315	6,088.3	1,187.22	754.6	64	21.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Dolores-1

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 8 : Dolores-1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.62	81	80.24	1,497.3	
3	113.00	10,380	75.00	10.9	Upper Marker

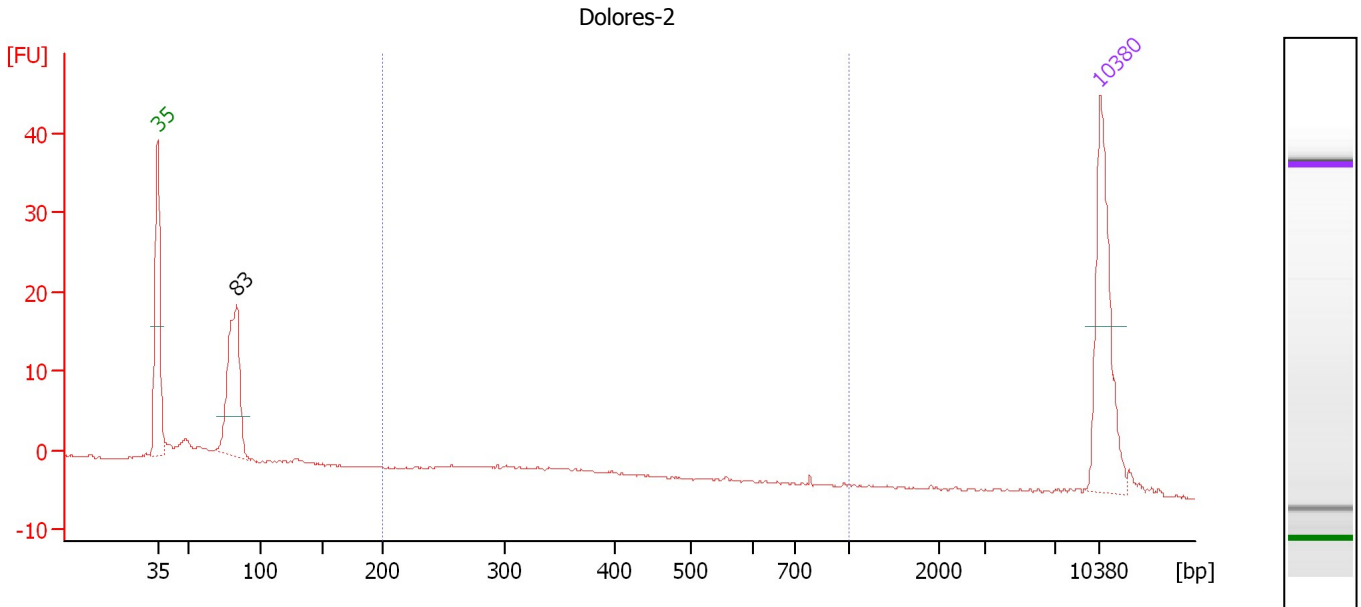
Region table for sample 8 : Dolores-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	486	0.1	0.04	0.0	0	30.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Dolores-2

Number of peaks found: 1 Corr. Area 1: 8.7
 Noise: 0.1

Peak table for sample 9 : Dolores-2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.84	83	117.03	2,129.4	
3	113.00	10,380	75.00	10.9	Upper Marker

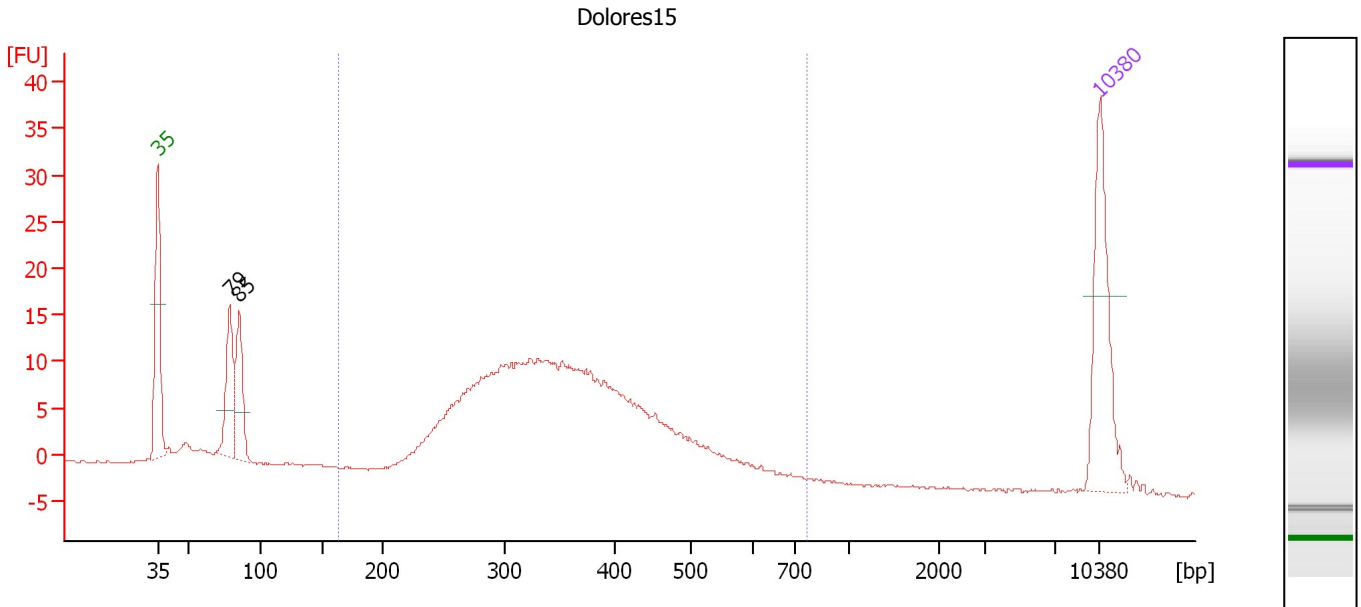
Region table for sample 9 : Dolores-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	348	87.6	18.92	8.7	12	26.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Dolores15

Number of peaks found: 2 Corr. Area 1: 274.8
 Noise: 0.1

Peak table for sample 10 : Dolores15

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.35	79	70.17	1,351.9	
3	49.08	85	61.78	1,095.7	
4	113.00	10,380	75.00	10.9	Upper Marker

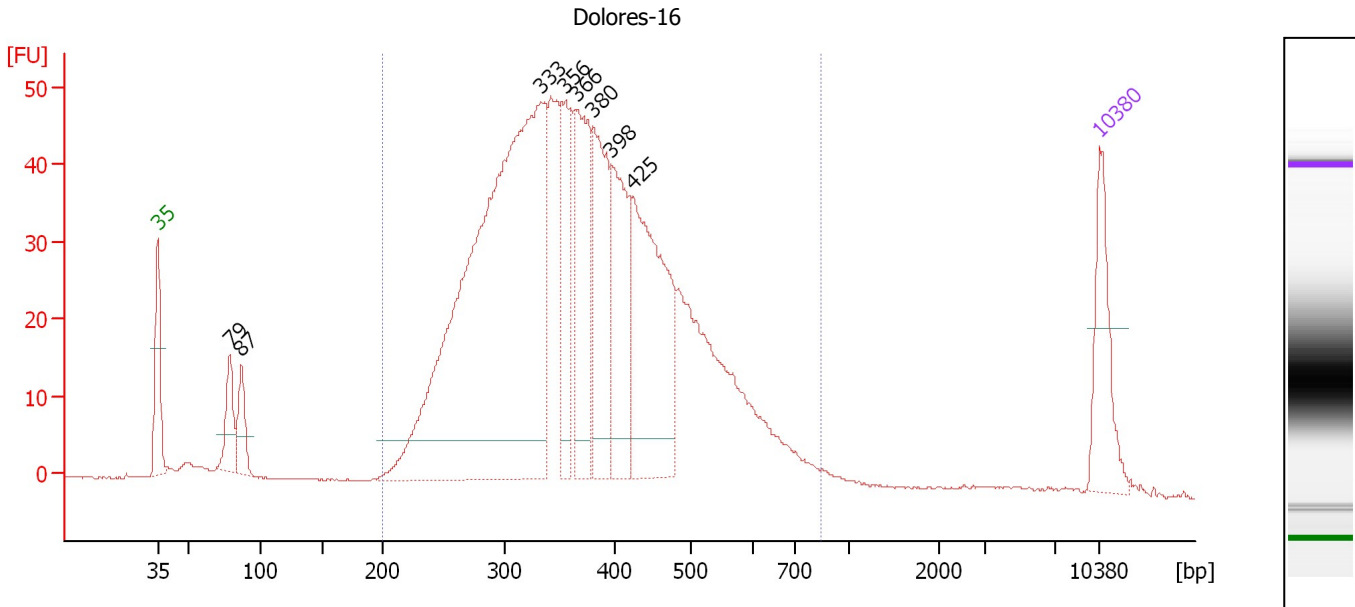
Region table for sample 10 : Dolores15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
163	765	365	3,114.8	693.24	274.8	82	24.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

Created: 1/27/2014 4:06:56 PM
 Modified: 1/27/2014 4:48:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Dolores-16

Number of peaks found: 8 Corr. Area 1: 1,128.3
 Noise: 0.1

Peak table for sample 11 : Dolores-16

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.36	79	65.17	1,253.5	
3	49.23	87	55.97	976.4	
4	71.45	333	1,049.99	4,777.3	
5	73.28	356	113.28	482.7	
6	74.15	366	172.95	715.4	
7	75.30	380	178.51	711.0	
8	76.72	398	158.69	604.4	
9	78.32	425	293.84	1,046.8	
10	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : Dolores-16

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	840	383	11,561.5	2,676.96	1,128.3	94	26.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-27\2014-01-27_006.xad

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Modified: 1/27/2014 4:48:12 PM

Gel Image

