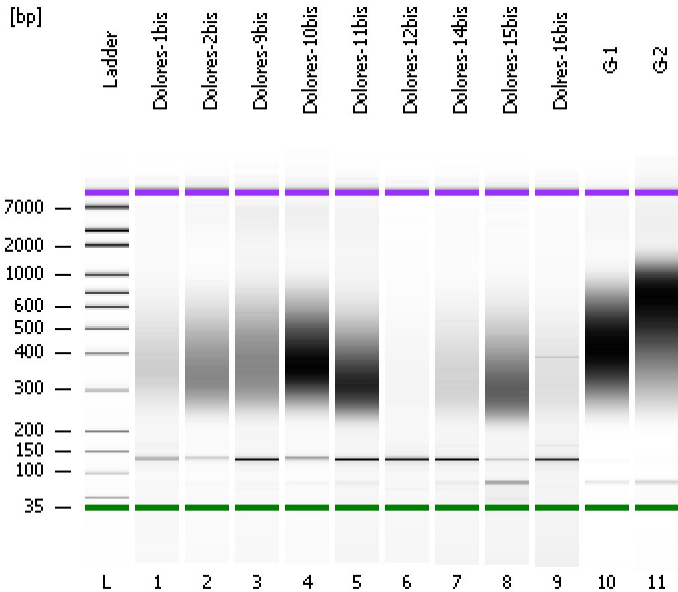


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
Modified: 2/18/2014 11:02:46 AM

Electrophoresis File Run Summary



Instrument Information:

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

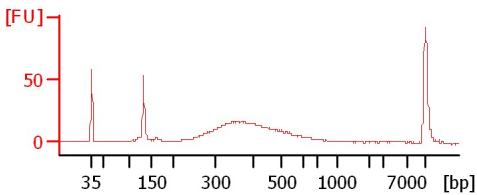
Assay Information:

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

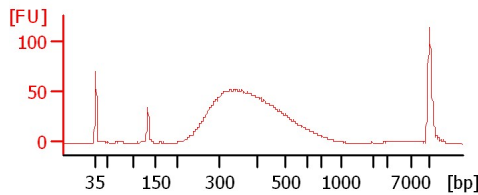
Chip Information:

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

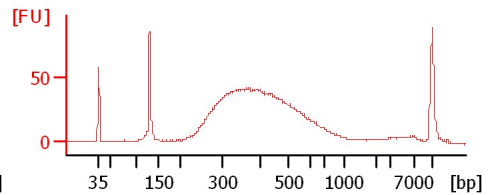
Dolores-1bis



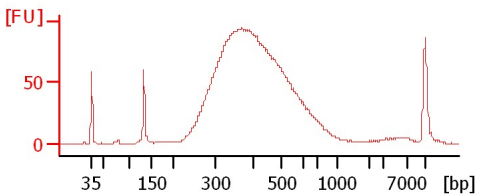
Dolores-2bis



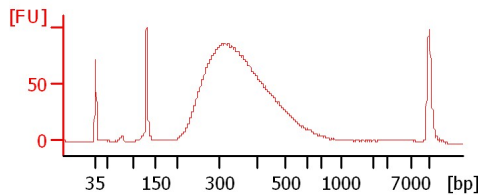
Dolores-9bis



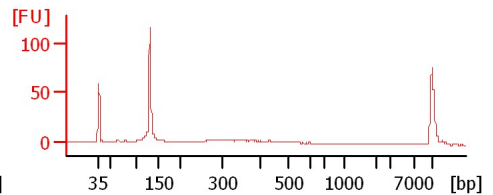
Dolores-10bis



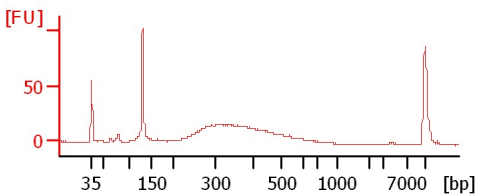
Dolores-11bis



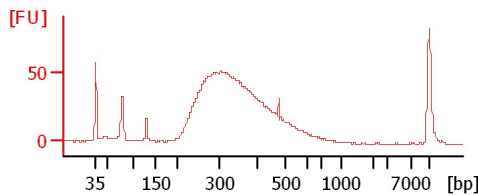
Dolores-12bis



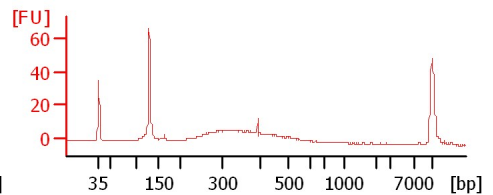
Dolores-14bis



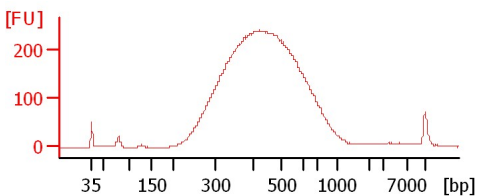
Dolores-15bis



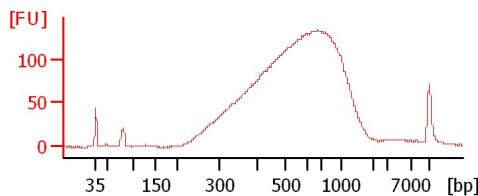
Dolores-16bis



G-1



G-2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Dolores-1bis		<input type="checkbox"/>	✓			
Dolores-2bis		<input type="checkbox"/>	✓			
Dolores-9bis		<input type="checkbox"/>	✓			
Dolores-10bis		<input type="checkbox"/>	✓			
Dolores-11bis		<input type="checkbox"/>	✓			
Dolores-12bis		<input type="checkbox"/>	✓			
Dolores-14bis		<input type="checkbox"/>	✓			
Dolores-15bis		<input type="checkbox"/>	✓			
Dolres-16bis		<input type="checkbox"/>	✓			
G-1		<input type="checkbox"/>	✓			
G-2		<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\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
Modified: 2/18/2014 11:02:46 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

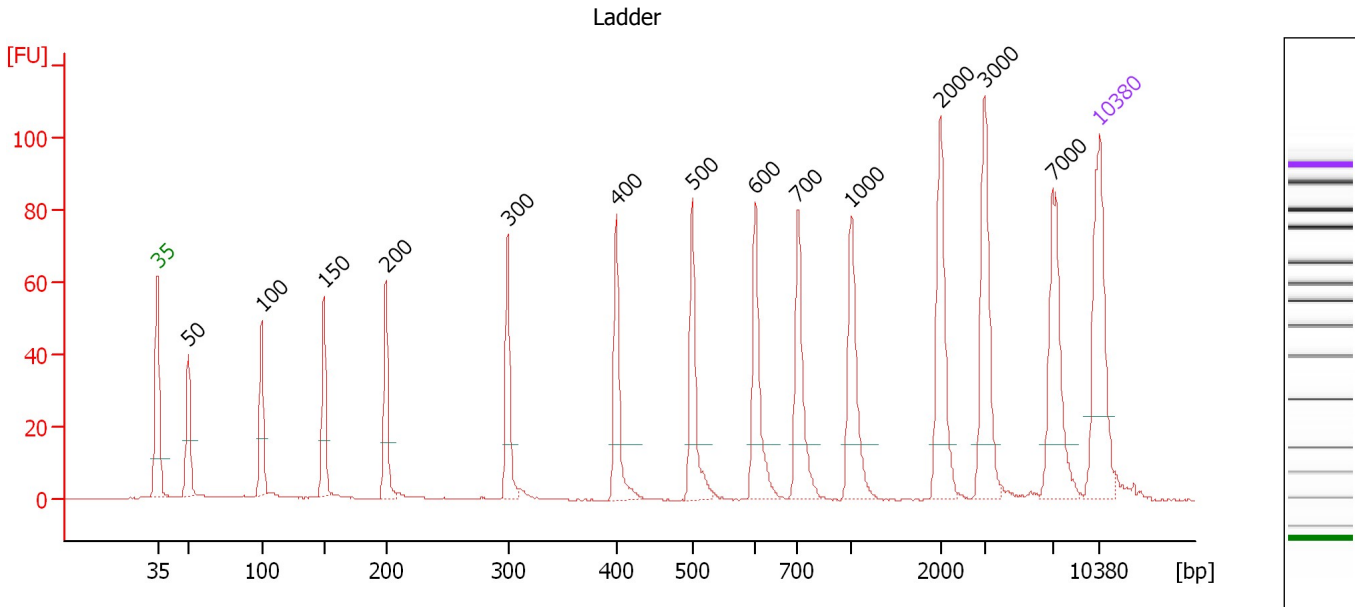
Ladder

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:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

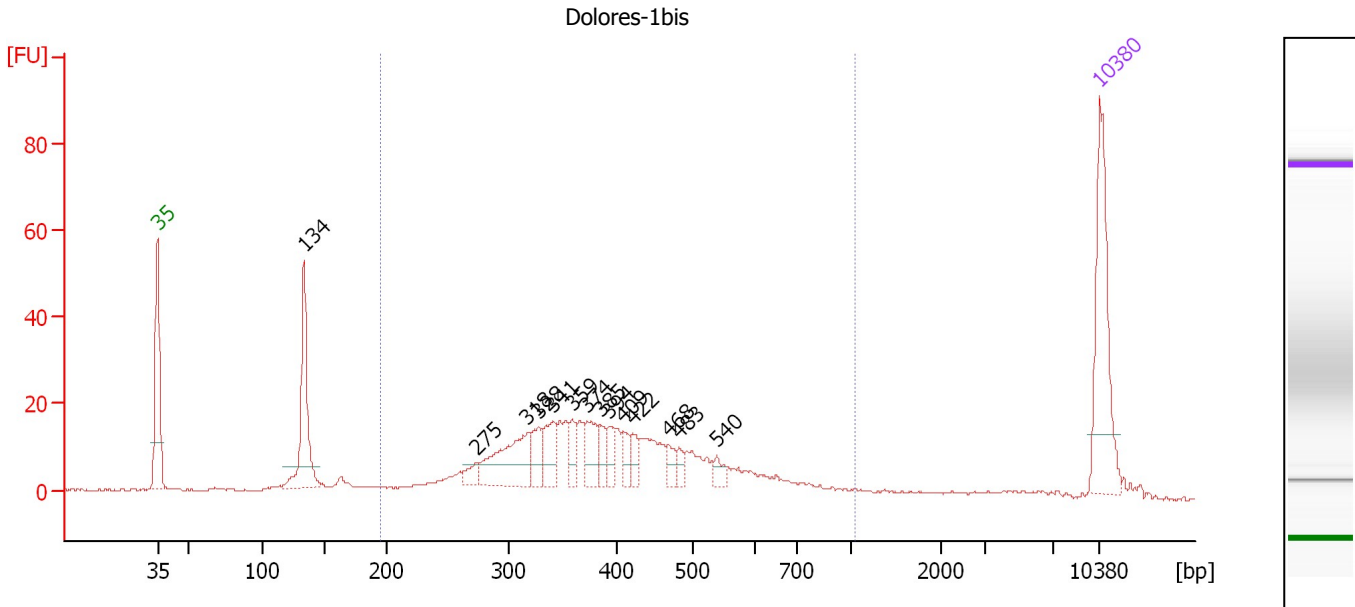
Peak table for Ladder

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	45.30	50	150.00	4,545.5	Ladder Peak
3	50.74	100	150.00	2,272.7	Ladder Peak
4	55.37	150	150.00	1,515.2	Ladder Peak
5	59.96	200	150.00	1,136.4	Ladder Peak
6	69.01	300	150.00	757.6	Ladder Peak
7	77.09	400	150.00	568.2	Ladder Peak
8	82.70	500	150.00	454.5	Ladder Peak
9	87.41	600	150.00	378.8	Ladder Peak
10	90.56	700	150.00	324.7	Ladder Peak
11	94.55	1,000	150.00	227.3	Ladder Peak
12	101.14	2,000	150.00	113.6	Ladder Peak
13	104.41	3,000	150.00	75.8	Ladder Peak
14	109.47	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\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Dolores-1bis

Number of peaks found: 14 Corr. Area 1: 406.0
 Noise: 0.2

Peak table for sample 1 : Dolores-1bis

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	53.87	134	99.34	1,125.2	
3	66.71	275	12.01	66.3	
4	70.48	318	68.04	323.9	
5	71.26	328	22.47	103.8	
6	72.33	341	28.48	126.5	
7	73.79	359	15.65	66.0	
8	74.95	374	24.99	101.4	
9	75.85	385	13.66	53.8	
10	76.58	394	13.22	50.9	
11	77.61	409	12.49	46.2	
12	78.30	422	12.67	45.5	
13	80.92	468	10.08	32.6	
14	81.74	483	8.35	26.2	
15	84.57	540	8.52	23.9	
16	113.00	10,380	75.00	10.9	Upper Marker

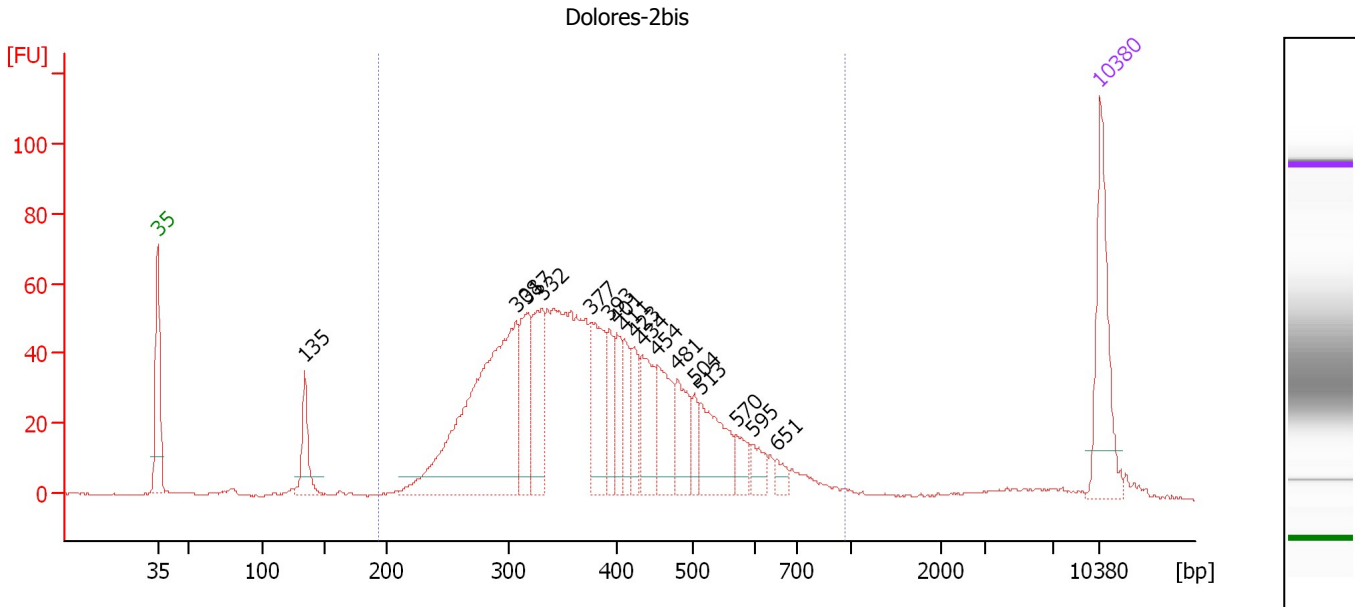
Region table for sample 1 : Dolores-1bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
195	1,043	414	2,175.6	531.34	406.0	77	31.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Dolores-2bis

Number of peaks found: 17 Corr. Area 1: 1,307.6
 Noise: 0.2

Peak table for sample 2 : Dolores-2bis

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	53.93	135	50.98	574.3	
3	69.62	308	356.13	1,754.7	
4	70.40	317	78.11	373.2	
5	71.56	332	84.76	387.3	
6	75.23	377	85.13	342.1	
7	76.53	393	39.50	152.2	
8	77.14	401	37.88	143.2	
9	77.70	411	35.95	132.6	
10	78.39	423	34.06	121.9	
11	78.99	434	62.54	218.3	
12	80.12	454	63.43	211.7	
13	81.63	481	47.77	150.5	
14	82.88	504	19.83	59.6	
15	83.31	513	70.00	206.7	
16	85.99	570	20.64	54.9	
17	87.16	595	17.10	43.6	
18	89.02	651	9.54	22.2	
19	113.00	10,380	75.00	10.9	Upper Marker

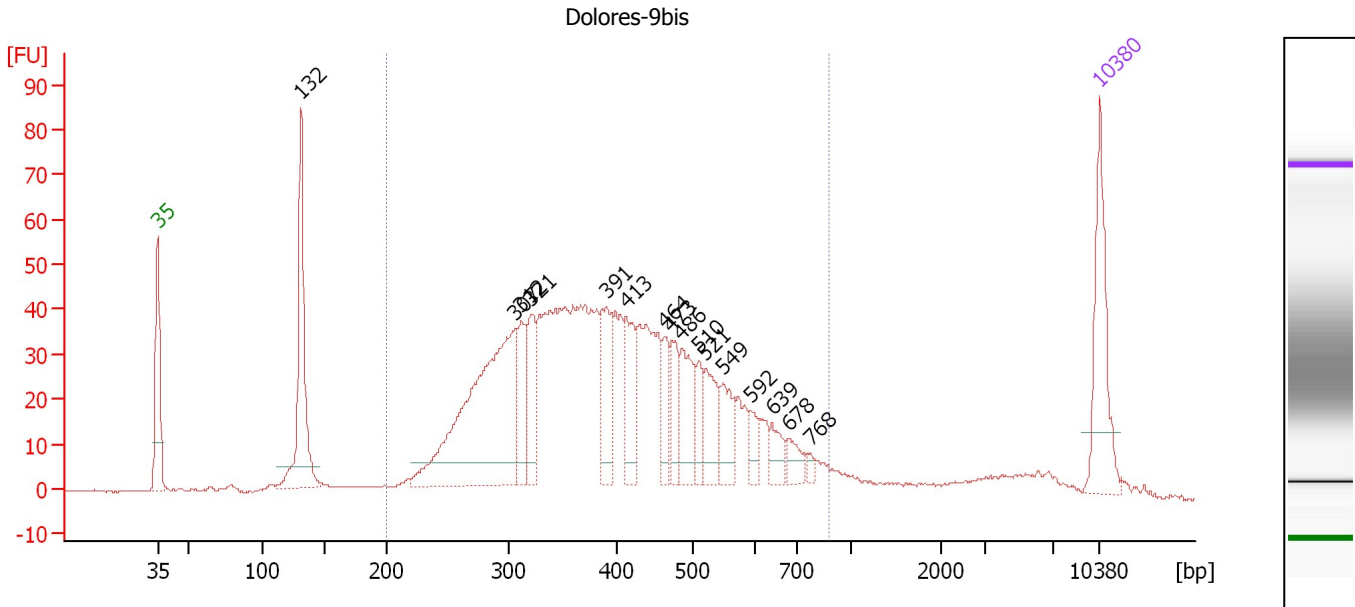
Region table for sample 2 : Dolores-2bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
195	966	396	5,959.1	1,414.16	1,307.6	94	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Dolores-9bis

Number of peaks found: 16 Corr. Area 1: 1,149.3
 Noise: 0.2

Peak table for sample 3 : Dolores-9bis

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	53.66	132	183.05	2,107.6	
3	69.57	307	335.14	1,654.5	
4	70.00	312	51.00	247.4	
5	70.74	321	62.71	295.6	
6	76.33	391	72.09	279.6	
7	77.80	413	61.94	227.3	
8	80.67	464	33.06	108.0	
9	81.19	473	36.45	116.7	
10	81.92	486	59.32	184.9	
11	83.18	510	27.88	82.8	
12	83.70	521	47.36	137.7	
13	85.00	549	39.81	109.9	
14	87.04	592	16.59	42.5	
15	88.64	639	20.53	48.7	
16	89.85	678	18.48	41.3	
17	91.46	768	5.18	10.2	
18	113.00	10,380	75.00	10.9	Upper Marker

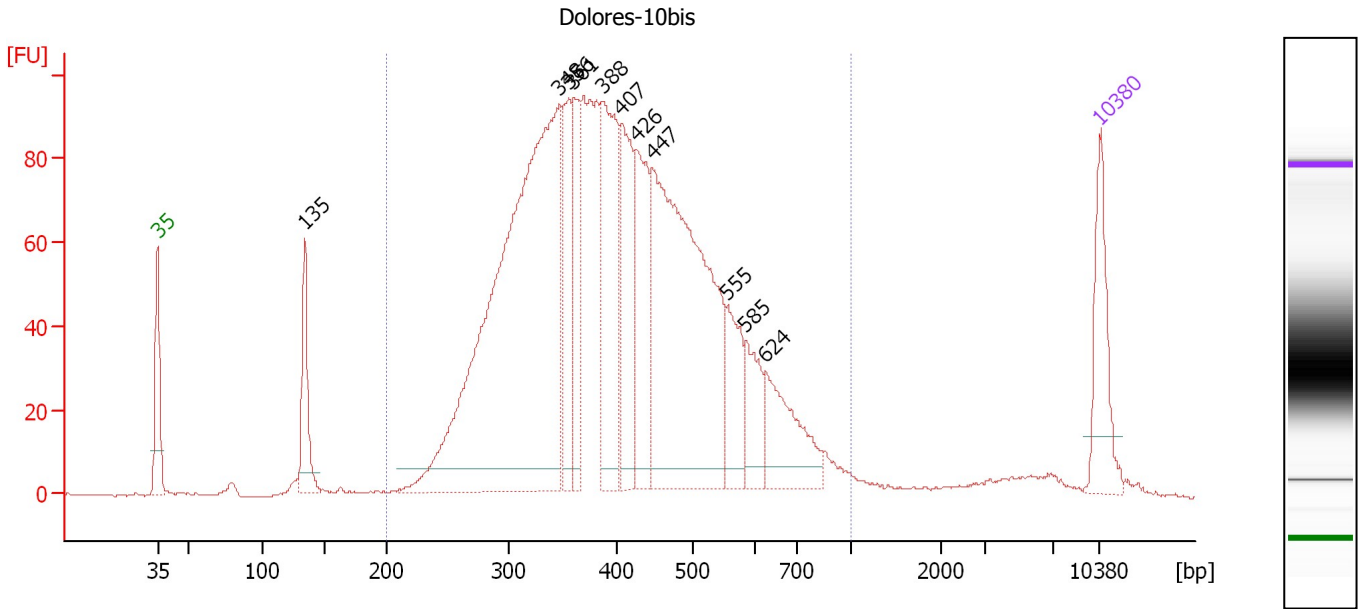
Region table for sample 3 : Dolores-9bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	871	414	6,898.5	1,689.67	1,149.3	85	28.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Dolores-10bis

Number of peaks found: 11 Corr. Area 1: 2,270.7
 Noise: 0.2

Peak table for sample 4 : Dolores-10bis

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	53.95	135	102.07	1,147.8	
3	72.85	348	955.47	4,165.4	
4	73.55	356	115.03	489.3	
5	73.90	361	99.43	417.9	
6	76.08	388	221.95	867.7	
7	77.48	407	151.06	562.4	
8	78.52	426	150.51	535.8	
9	79.75	447	562.75	1,905.8	
10	85.29	555	80.97	221.1	
11	86.68	585	63.51	164.6	
12	88.17	624	105.42	256.0	
13	113.00	10,380	75.00	10.9	Upper Marker

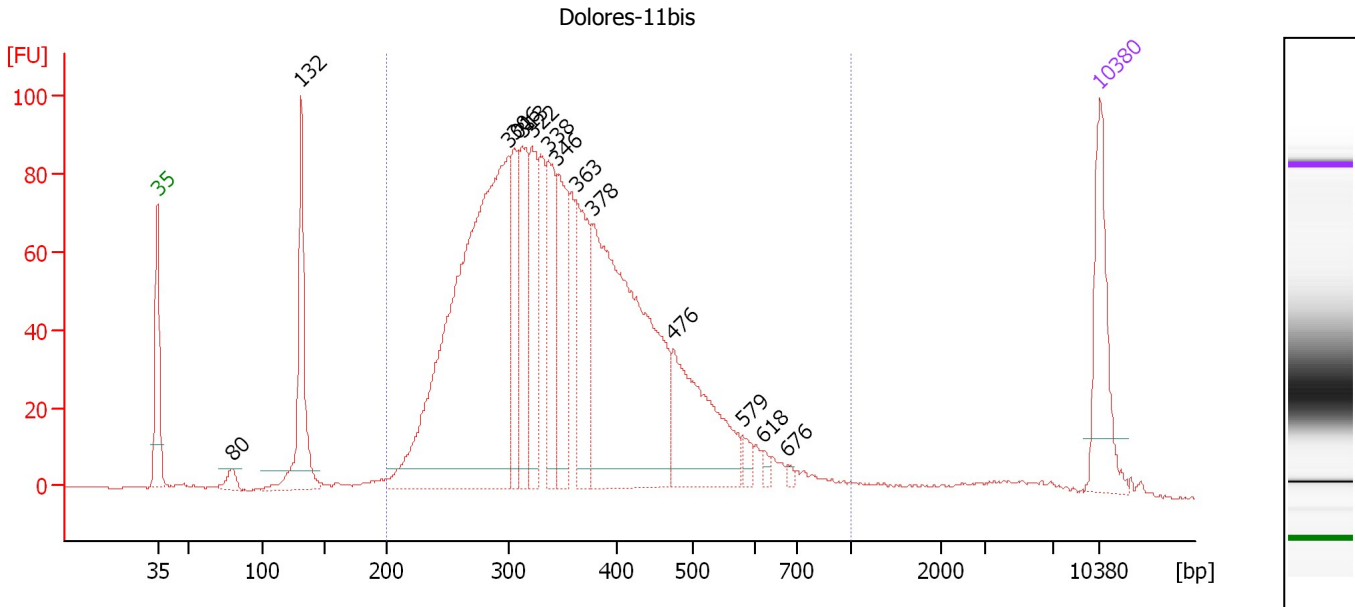
Region table for sample 4 : Dolores-10bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	420	11,890.1	2,992.85	2,270.7	94	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Dolores-11bis

Number of peaks found: 14 Corr. Area 1: 1,989.4
 Noise: 0.2

Peak table for sample 5 : Dolores-11bis

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	14.52	276.4	
3	53.67	132	160.76	1,849.1	
4	69.07	301	722.65	3,640.1	
5	69.47	306	87.29	432.7	
6	70.08	313	119.44	577.7	
7	70.82	322	109.30	513.6	
8	72.05	338	107.06	480.4	
9	72.71	346	110.50	484.2	
10	74.11	363	119.52	498.8	
11	75.29	378	455.38	1,826.6	
12	81.32	476	161.98	516.1	
13	86.44	579	12.35	32.3	
14	87.97	618	5.67	13.9	
15	89.81	676	3.78	8.5	
16	113.00	10,380	75.00	10.9	Upper Marker

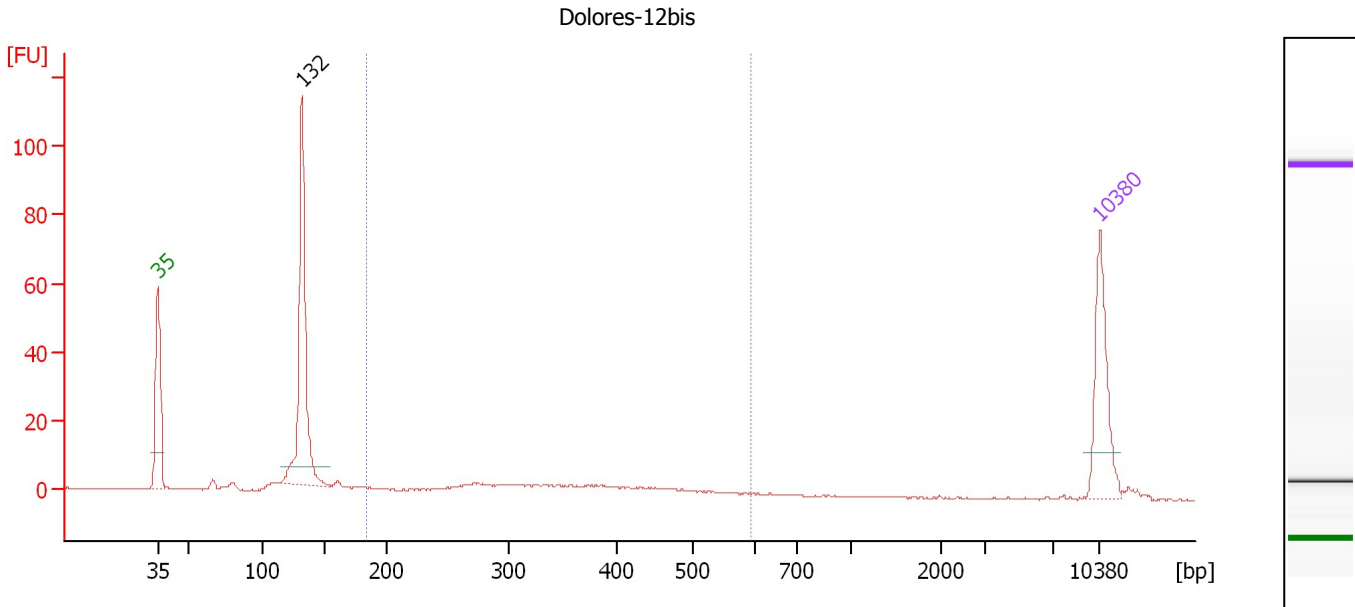
Region table for sample 5 : Dolores-11bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	367	10,269.8	2,270.08	1,989.4	91	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Dolores-12bis

Number of peaks found: 1 Corr. Area 1: 74.1
 Noise: 0.1

Peak table for sample 6 : Dolores-12bis

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	53.73	132	258.77	2,963.2	
3	113.00	10,380	75.00	10.9	Upper Marker

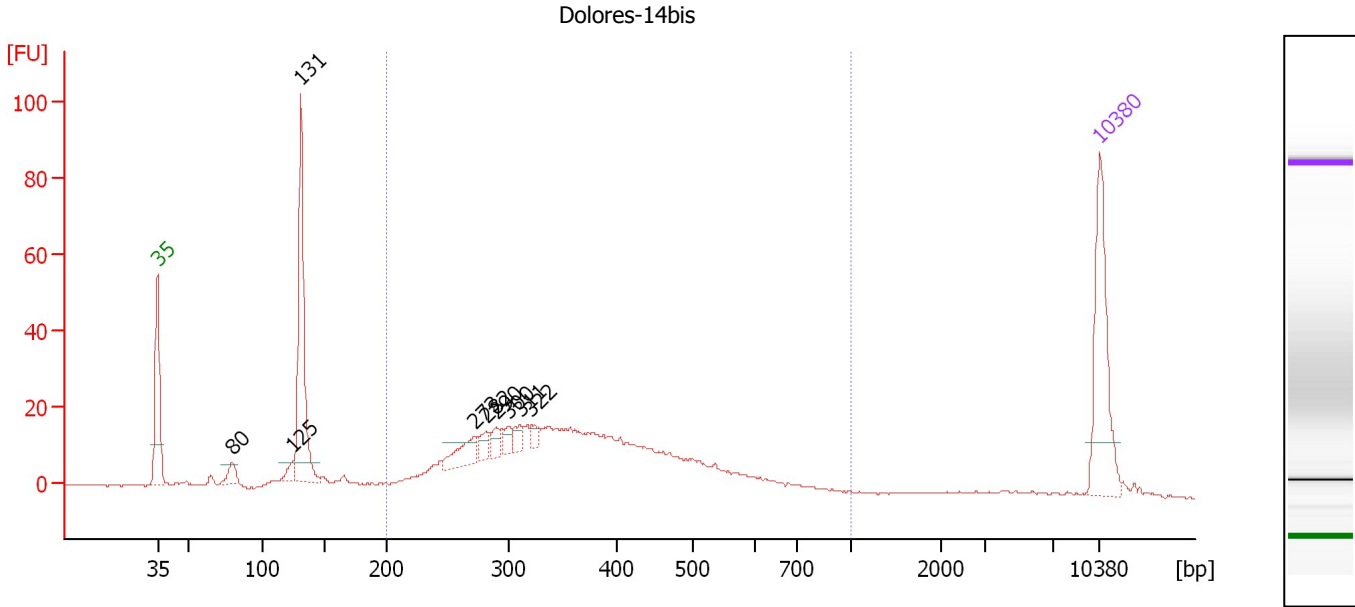
Region table for sample 6 : Dolores-12bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
185	594	355	572.8	121.01	74.1	29	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Dolores-14bis

Number of peaks found: 9 Corr. Area 1: 427.5
 Noise: 0.2

Peak table for sample 7 : Dolores-14bis

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	48.54	80	15.07	286.1	
3	53.07	125	11.20	135.5	
4	53.64	131	168.40	1,942.3	
5	66.60	273	27.92	154.8	
6	67.38	282	12.95	69.6	
7	68.12	290	11.16	58.3	
8	69.04	300	9.71	49.0	
9	69.91	311	10.72	52.2	
10	70.78	322	6.16	29.0	
11	113.00	10,380	75.00	10.9	Upper Marker

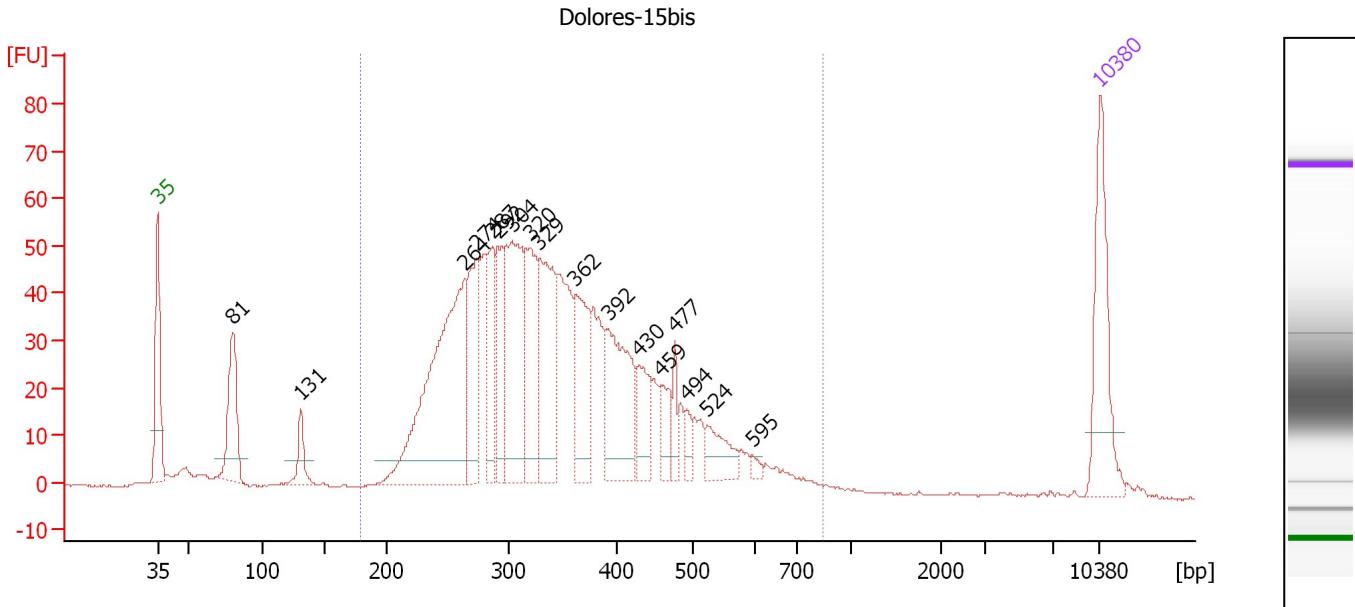
Region table for sample 7 : Dolores-14bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	382	2,559.5	580.41	427.5	73	29.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Dolores-15bis

Number of peaks found: 17 Corr. Area 1: 1,220.8
 Noise: 0.1

Peak table for sample 8 : Dolores-15bis

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	95.69	1,800.0	
3	53.63	131	27.98	323.1	
4	65.78	264	311.00	1,782.7	
5	66.70	274	98.14	541.8	
6	67.87	287	72.61	382.8	
7	68.26	292	68.02	353.2	
8	69.35	304	156.45	779.2	
9	70.66	320	97.37	460.4	
10	71.31	329	126.61	583.9	
11	74.06	362	90.72	379.2	
12	76.45	392	112.09	433.1	
13	78.76	430	44.96	158.5	
14	80.37	459	26.87	88.8	
15	81.42	477	18.99	60.3	
16	82.33	494	13.00	39.9	
17	83.82	524	33.23	96.1	
18	87.17	595	5.36	13.7	
19	113.00	10,380	75.00	10.9	Upper Marker

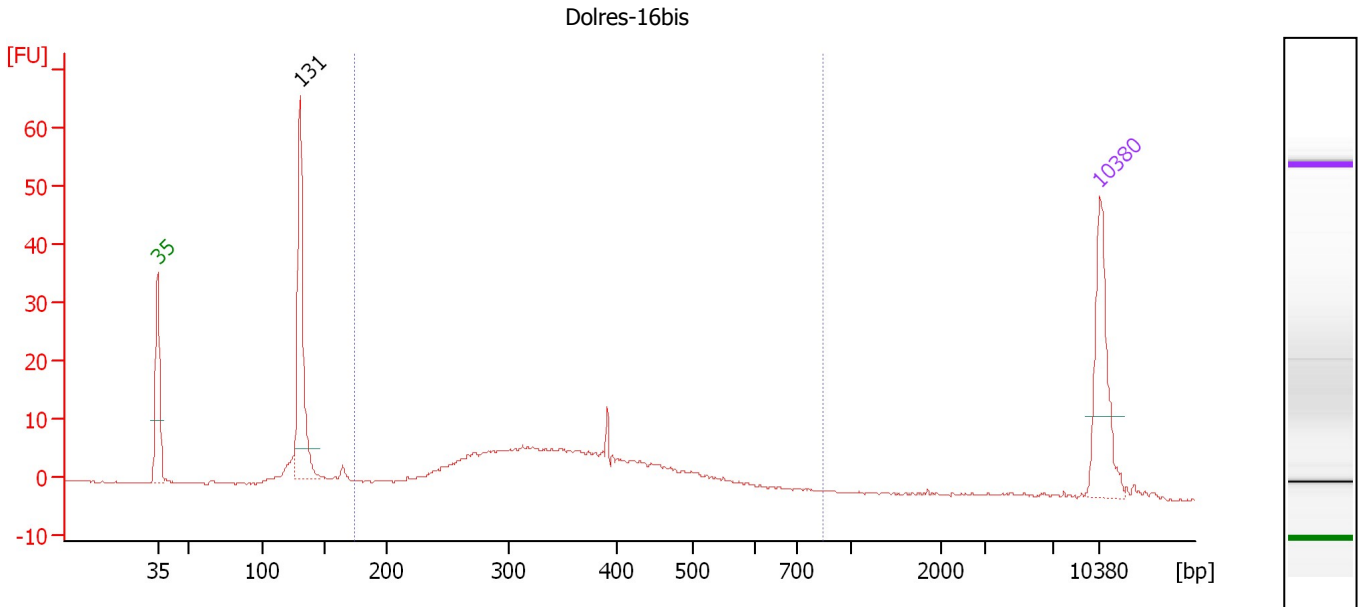
Region table for sample 8 : Dolores-15bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
179	844	355	8,052.1	1,721.35	1,220.8	91	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Dolres-16bis

Number of peaks found: 1 Corr. Area 1: 174.7
 Noise: 0.2

Peak table for sample 9 : Dolres-16bis

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	53.56	131	180.20	2,091.9	
3	113.00	10,380	75.00	10.9	Upper Marker

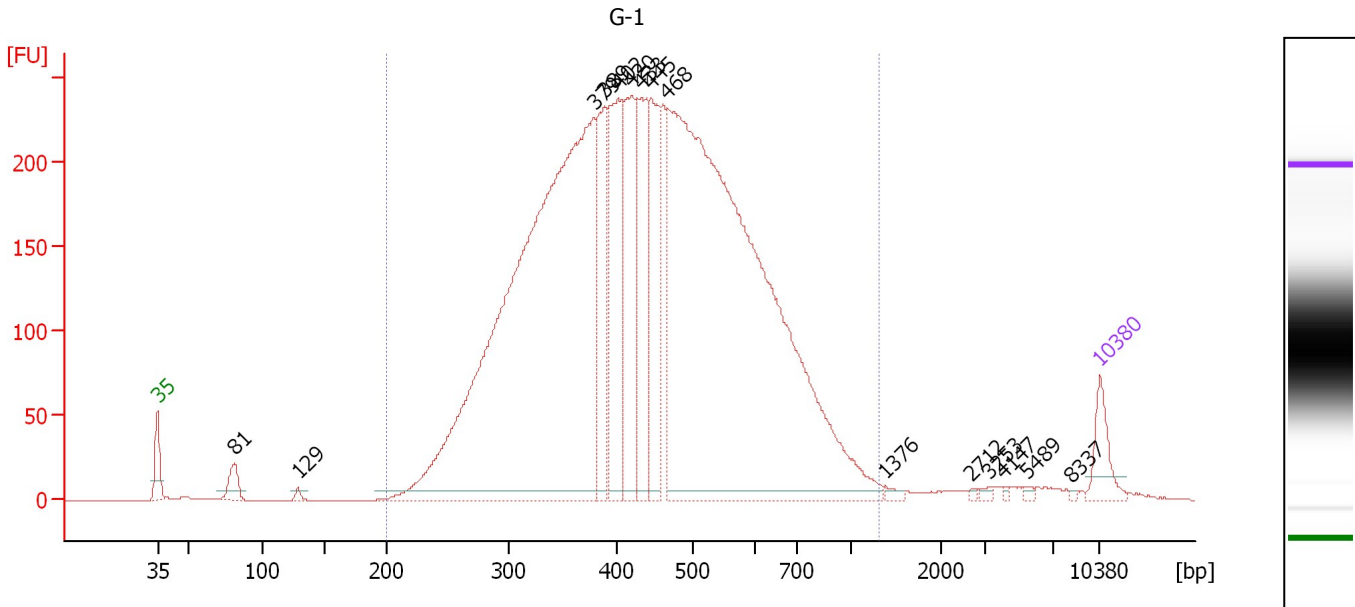
Region table for sample 9 : Dolres-16bis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
175	836	369	1,844.5	405.92	174.7	67	27.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : G-1

Number of peaks found: 15 Corr. Area 1: 6,208.7
 Noise: 0.2

Peak table for sample 10 : G-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	48.70	81	76.05	1,417.5	
3	53.40	129	12.11	142.6	
4	75.41	379	3,162.86	12,635.7	
5	76.24	389	365.19	1,420.6	
6	77.20	402	460.08	1,734.3	
7	78.20	420	420.53	1,517.9	
8	78.94	433	377.78	1,322.0	
9	79.63	445	370.56	1,260.6	
10	80.89	468	3,386.24	10,966.3	
11	97.03	1,376	11.14	12.3	
12	103.47	2,712	4.32	2.4	
13	104.73	3,253	7.30	3.4	
14	105.87	4,147	4.49	1.6	
15	107.56	5,489	6.37	1.8	
16	110.87	8,337	3.19	0.6	
17	113.00	10,380	75.00	10.9	Upper Marker

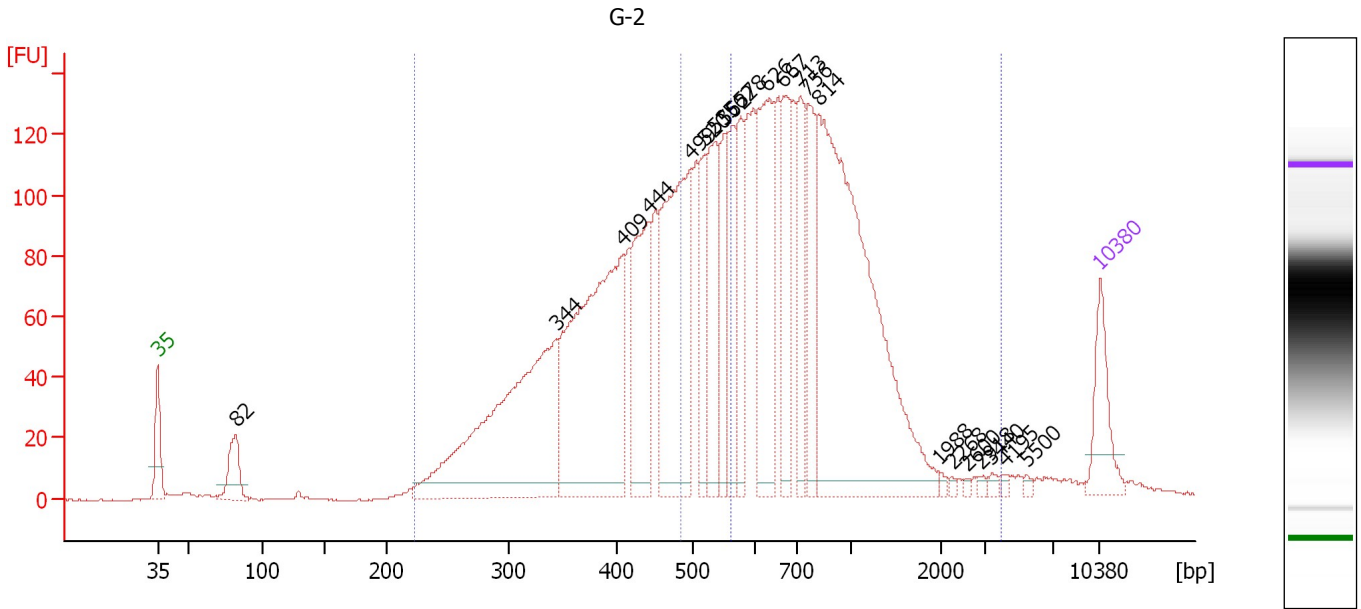
Region table for sample 10 : G-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,312	458	33,266.8	8,921.45	6,208.7	97	31.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
 Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : G-2

Number of peaks found: 22 Corr. Area 1: 1,352.6
 Noise: 0.3 Corr. Area 2: 1,605.2

Peak table for sample 11 : G-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	48.82	82	90.10	1,657.6	
3	72.60	344	630.17	2,772.3	
4	77.59	409	621.26	2,301.8	
5	79.54	444	233.46	797.1	
6	82.62	499	441.44	1,341.3	
7	83.66	520	109.62	319.1	
8	84.40	536	178.44	504.3	
9	85.14	552	119.33	327.7	
10	85.62	562	120.46	324.8	
11	86.35	578	128.42	336.9	
12	88.22	626	260.43	630.7	
13	89.52	667	141.90	322.3	
14	90.74	713	131.18	278.6	
15	91.30	756	142.05	284.8	
16	92.08	814	845.85	1,573.7	
17	101.07	1,988	5.06	3.9	
18	102.02	2,268	3.67	2.4	
19	103.11	2,600	3.48	2.0	
20	104.15	2,918	4.65	2.4	
21	104.97	3,440	6.22	2.7	
22	105.93	4,195	4.76	1.7	
23	107.58	5,500	4.82	1.3	
24	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
Modified: 2/18/2014 11:02:46 AM

Electropherogram Summary Continued ...

... Region table for sample 11 : G-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
223	486	384	8,516.9	2,064.76	 1,352.6	38	16.7
560	4,011	876	4,124.6	2,080.91	 1,605.2	45	45.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_001.xad

Created: 2/18/2014 10:12:16 AM
Modified: 2/18/2014 11:02:46 AM

Gel Image

