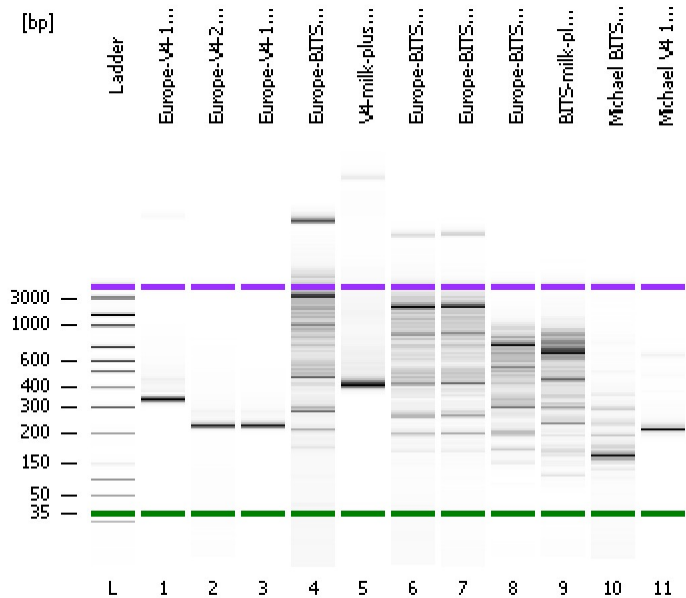


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
Modified: 3/19/2014 9:41:55 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

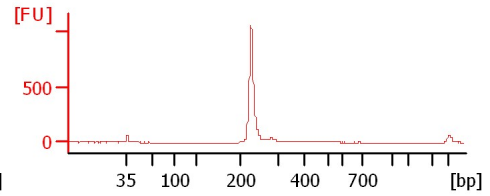
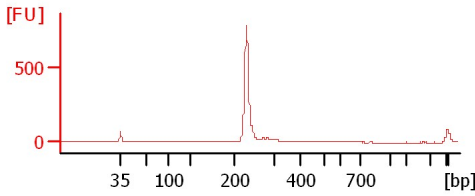
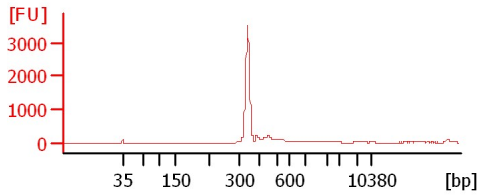
Chip Information:

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

Europe-V4-1-1 1:10

Europe-V4-2-1 1:50

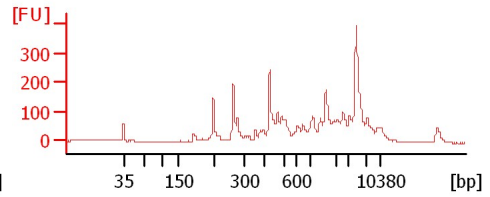
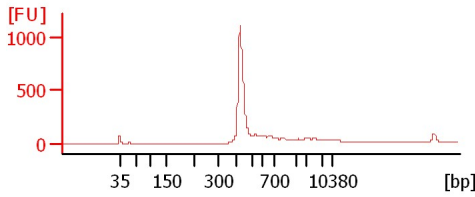
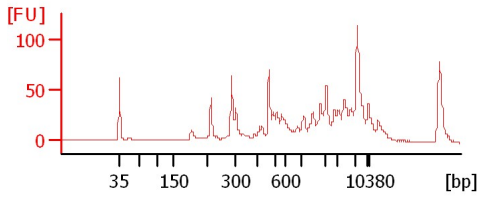
Europe-V4-1-2 1:20



Europe-BITS-2-1 1:50

V4-milk-plus 1:20

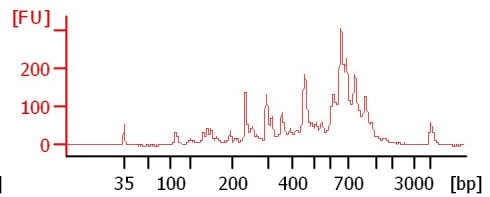
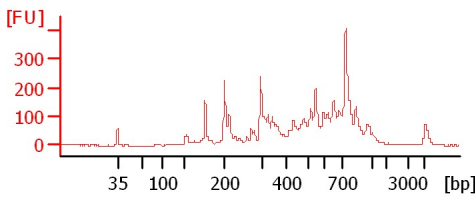
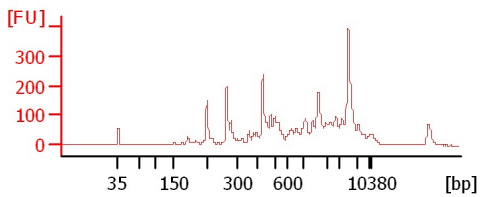
Europe-BITS-1-1 1:10



Europe-BITS-1-2 1:10

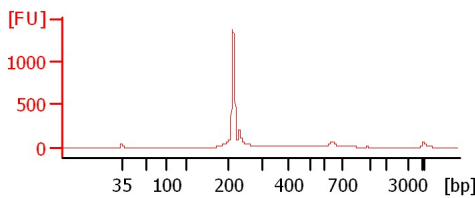
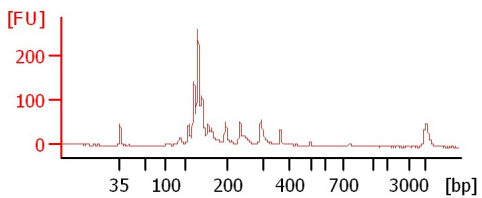
Europe-BITS-2-2 1:20

BITS-milk-plus 1:20



Michael BITS 1:50

Michael V4 1:50



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Europe-V4-1-1 1:10		<input type="checkbox"/>	✓			
Europe-V4-2-1 1:50		<input type="checkbox"/>	✓			
Europe-V4-1-2 1:20		<input type="checkbox"/>	✓			
Europe-BITS-2-1 1:50		<input type="checkbox"/>	✓			
V4-milk-plus 1:20		<input type="checkbox"/>	✓			
Europe-BITS-1-1 1:10		<input type="checkbox"/>	✓			
Europe-BITS-1-2 1:10		<input type="checkbox"/>	✓			
Europe-BITS-2-2 1:20		<input type="checkbox"/>	✓			
BITS-milk-plus 1:20		<input type="checkbox"/>	✓			
Michael BITS 1:50		<input type="checkbox"/>	✓			
Michael V4 1:50		<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\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
Modified: 3/19/2014 9:41:55 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

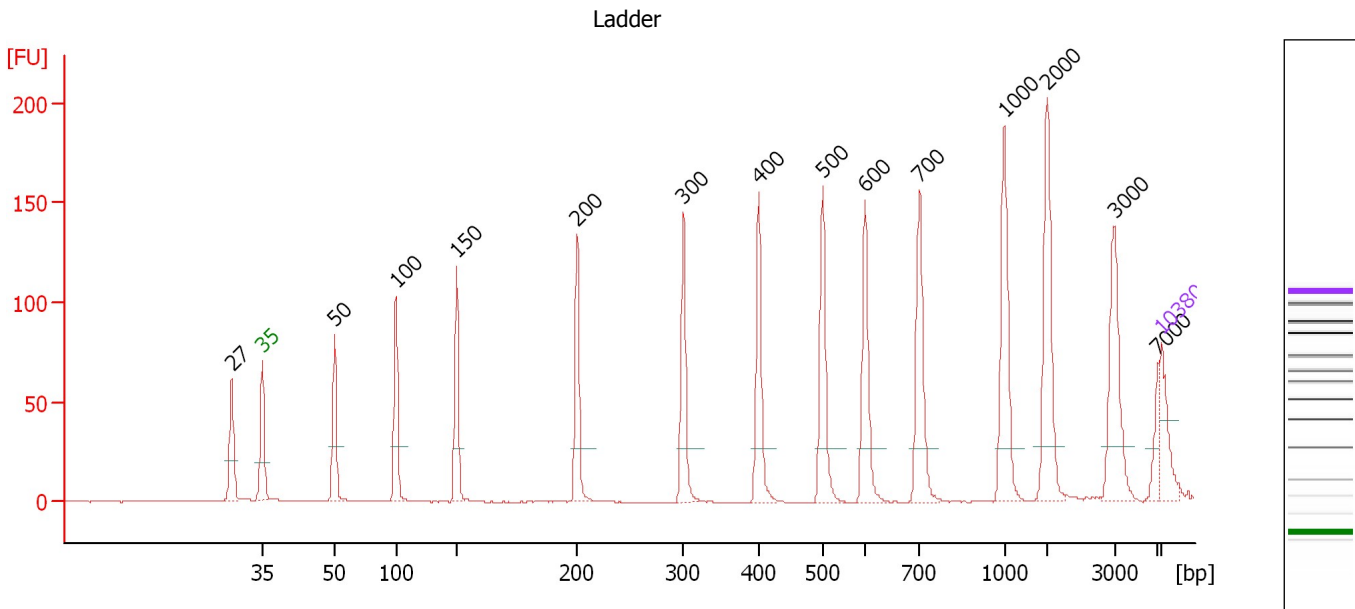
**Ladder**

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\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

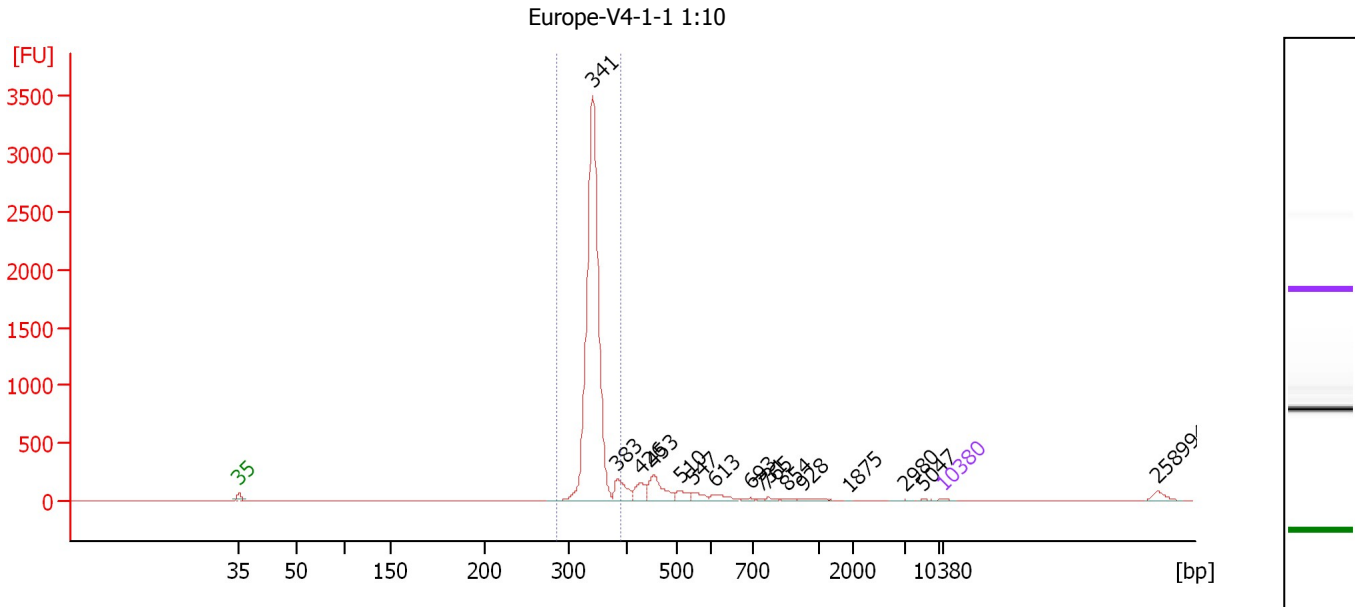
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	40.63	27	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	48.64	50	150.00	4,545.5	Ladder Peak
4	53.41	100	150.00	2,272.7	Ladder Peak
5	58.15	150	150.00	1,515.2	Ladder Peak
6	67.52	200	150.00	1,136.4	Ladder Peak
7	75.78	300	150.00	757.6	Ladder Peak
8	81.63	400	150.00	568.2	Ladder Peak
9	86.61	500	150.00	454.5	Ladder Peak
10	89.89	600	150.00	378.8	Ladder Peak
11	94.16	700	150.00	324.7	Ladder Peak
12	100.76	1,000	150.00	227.3	Ladder Peak
13	104.08	2,000	150.00	113.6	Ladder Peak
14	109.31	3,000	150.00	75.8	Ladder Peak
15	112.71	7,000	150.00	32.5	Ladder Peak
16	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Europe-V4-1-1 1:10**

Number of peaks found: 16                      Corr. Area 1: 5,583.5  
 Noise: 0.2

**Peak table for sample 1 : Europe-V4-1-1 1:10**

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	78.18	341	44,685.77	198,492.7	
3	80.61	383	2,254.85	8,930.2	
4	82.93	426	1,593.28	5,665.0	
5	84.25	453	3,056.21	10,230.6	
6	86.94	510	1,011.07	3,003.2	
7	88.15	547	764.27	2,116.5	
8	90.42	613	800.96	1,981.3	
9	93.85	693	233.60	510.9	
10	94.85	731	116.01	240.3	
11	95.59	765	230.43	456.4	
12	97.54	854	224.89	399.1	
13	99.18	928	283.55	462.9	
14	103.66	1,875	17.55	14.2	
15	109.20	2,980	62.89	32.0	
16	111.05	5,047	57.94	17.4	
17	113.00	10,380	75.00	10.9	Upper Marker
18	134.36	258,994	0.00	0.0	

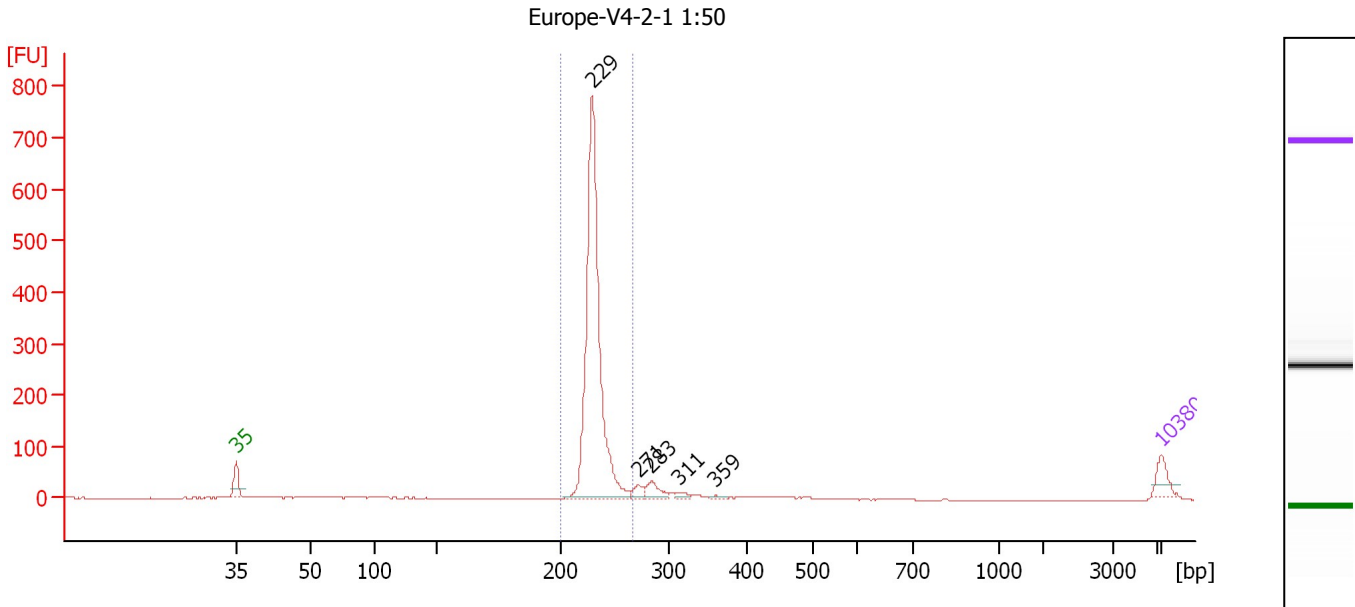
**Region table for sample 1 : Europe-V4-1-1 1:10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
286	389	342	202,556.5	45,683.88	5,583.5	80	3.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Europe-V4-2-1 1:50**

Number of peaks found: 5                      Corr. Area 1: 1,320.9  
 Noise: 0.7

**Peak table for sample 2 : Europe-V4-2-1 1:50**

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	69.94	229	2,244.01	14,833.0	
3	73.40	271	56.03	313.0	
4	74.41	283	91.71	490.3	
5	76.43	311	27.63	134.6	
6	79.21	359	14.56	61.5	
7	113.00	10,380	75.00	10.9	Upper Marker

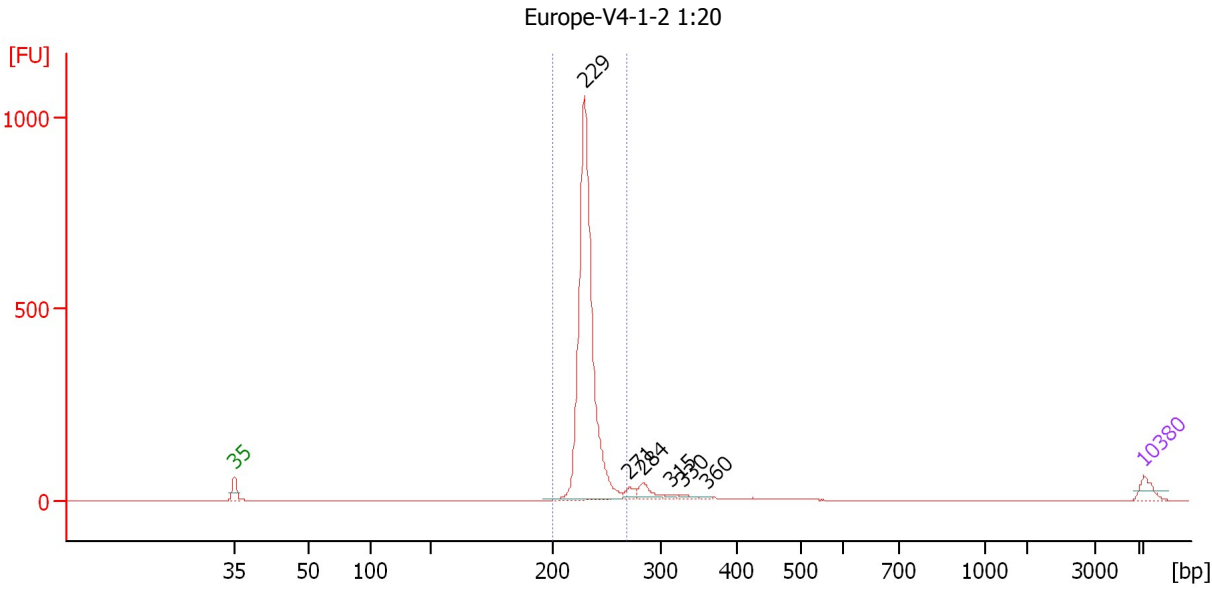
**Region table for sample 2 : Europe-V4-2-1 1:50**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	267	231	14,706.3	2,245.47	1,320.9	87	3.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Europe-V4-1-2 1:20**

Number of peaks found: 6                      Corr. Area 1: 1,895.6  
 Noise: 0.3

**Peak table for sample 3 : Europe-V4-1-2 1:20**

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	69.95	229	3,678.93	24,293.6	
3	73.43	271	75.96	423.9	
4	74.49	284	138.23	736.5	
5	76.65	315	28.69	138.1	
6	77.55	330	27.35	125.5	
7	79.31	360	13.24	55.7	
8	113.00	10,380	75.00	10.9	Upper Marker

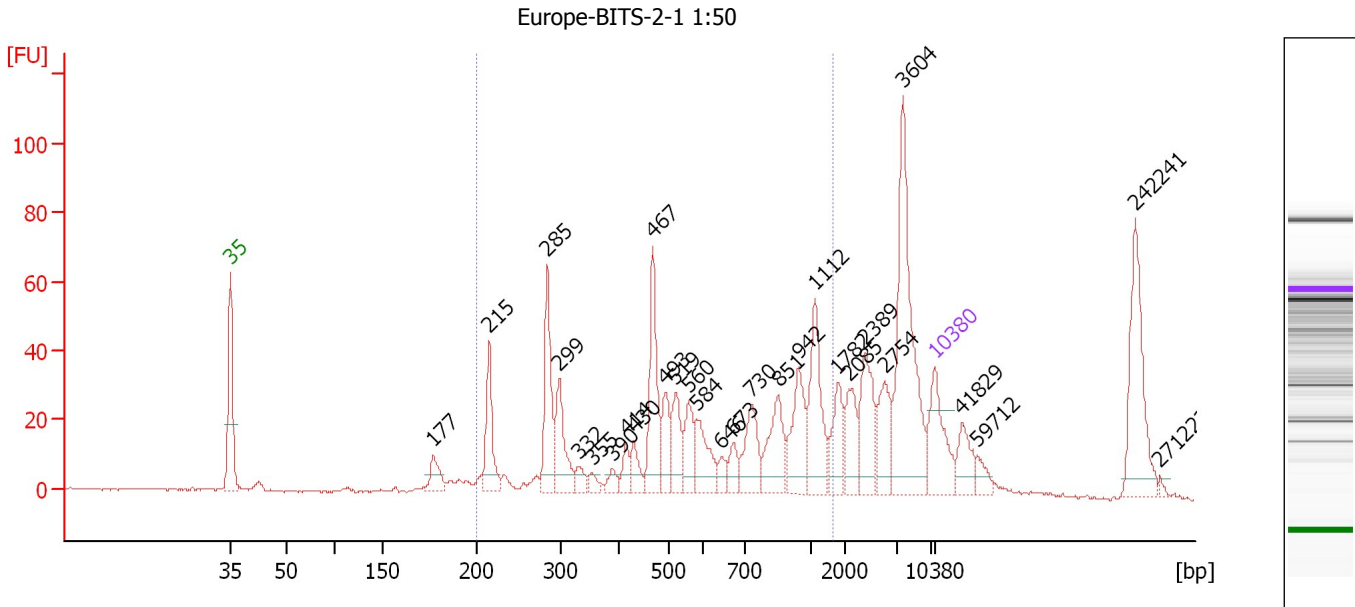
**Region table for sample 3 : Europe-V4-1-2 1:20**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	269	232	24,106.1	3,691.26	1,895.6	89	3.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Europe-BITS-2-1 1:50**

Number of peaks found: 29                      Corr. Area 1: 633.5  
 Noise: 0.3

**Peak table for sample 4 : Europe-BITS-2-1 1:50**

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	63.19	177	42.71	365.8	
3	68.75	215	102.50	722.7	
4	74.53	285	136.60	726.6	
5	75.69	299	94.34	478.1	
6	77.66	332	19.27	87.9	
7	78.98	355	12.79	54.7	
8	81.05	390	16.92	65.7	
9	82.32	414	23.99	87.8	
10	83.11	430	30.42	107.2	
11	84.97	467	127.38	413.3	
12	86.24	493	55.65	171.2	
13	87.25	519	59.93	174.8	
14	88.57	560	52.54	142.2	
15	89.37	584	64.81	168.1	
16	91.86	646	18.36	43.1	
17	93.02	673	26.74	60.2	
18	94.82	730	71.12	147.6	
19	97.47	851	81.14	144.5	
20	99.49	942	85.63	137.7	
21	101.13	1,112	111.39	151.8	
22	103.36	1,782	53.45	45.4	
23	104.52	2,085	51.17	37.2	
24	106.11	2,389	77.94	49.4	
25	108.02	2,754	56.70	31.2	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : Europe-BITS-2-1 1:50

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	109.82	3,604	236.00	99.2	
27	113.00	10,380	75.00	10.9	Upper Marker
28	115.70	41,829	0.00	0.0	
29	117.24	59,712	0.00	0.0	
30	132.92	242,241	0.00	0.0	
31	135.41	271,223	0.00	0.0	

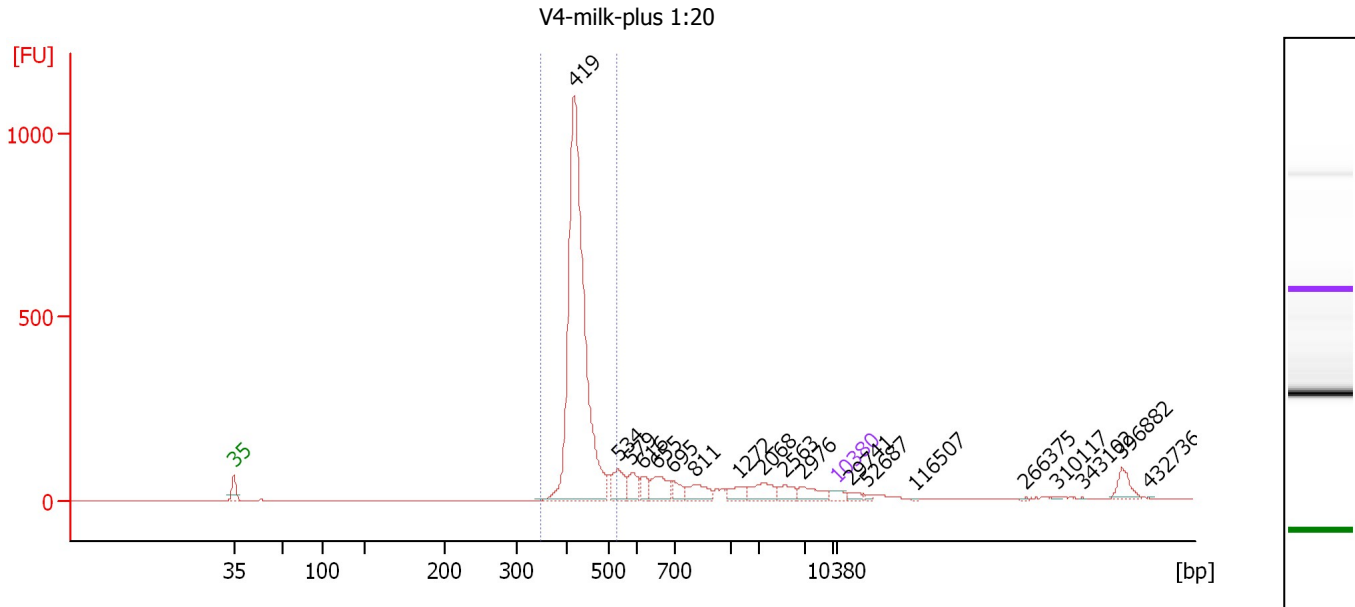
#### Region table for sample 4 : Europe-BITS-2-1 1:50

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,670	633	4,360.4	1,274.39	633.5	57	50.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : V4-milk-plus 1:20**

Number of peaks found: 19                      Corr. Area 1: 2,424.2  
 Noise: 0.2

**Peak table for sample 5 : V4-milk-plus 1:20**

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	82.56	419	6,493.96	23,501.9	
3	87.74	534	335.12	950.2	
4	89.21	579	249.32	651.9	
5	90.57	616	160.16	394.0	
6	92.23	655	358.74	830.0	
7	93.96	695	162.99	355.2	
8	96.61	811	269.57	503.4	
9	101.66	1,272	154.48	184.0	
10	104.43	2,068	230.98	169.2	
11	107.02	2,563	145.89	86.2	
12	109.18	2,976	181.95	92.6	
13	113.00	10,380	75.00	10.9	Upper Marker
14	114.66	29,741	0.00	0.0	
15	116.64	52,687	0.00	0.0	
16	122.12	116,507	0.00	0.0	
17	135.00	266,375	0.00	0.0	
18	138.76	310,117	0.00	0.0	
19	141.59	343,102	0.00	0.0	
20	146.21	396,882	0.00	0.0	
21	149.29	432,736	0.00	0.0	

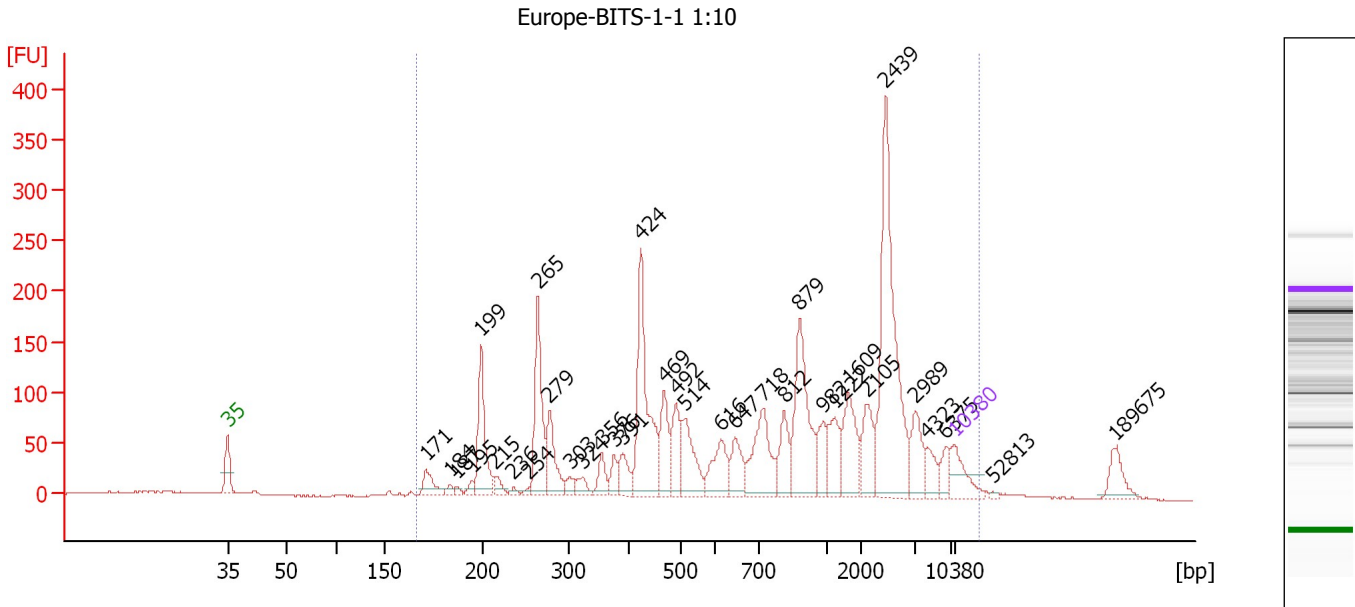
**Region table for sample 5 : V4-milk-plus 1:20**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
351	528	430	23,278.3	6,597.57	2,424.2	69	5.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Europe-BITS-1-1 1:10**

Number of peaks found: 34                      Corr. Area 1: 3,117.6  
 Noise: 0.6

**Peak table for sample 6 : Europe-BITS-1-1 1:10**

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	62.10	171	76.60	678.2	
3	64.47	184	16.63	137.2	
4	65.08	187	11.54	93.5	
5	66.57	195	21.62	168.1	
6	67.39	199	265.90	2,021.3	
7	68.73	215	36.57	258.2	
8	70.53	236	10.95	70.2	
9	72.02	254	9.38	55.8	
10	72.89	265	309.45	1,769.3	
11	74.02	279	156.21	849.3	
12	75.97	303	33.93	169.5	
13	77.20	324	37.86	176.9	
14	79.05	356	59.08	251.5	
15	80.23	376	48.70	196.2	
16	81.11	391	71.91	278.6	
17	82.80	424	420.25	1,503.5	
18	85.06	469	140.66	454.5	
19	86.19	492	118.34	364.7	
20	87.06	514	165.33	487.5	
21	90.56	616	126.80	312.1	
22	91.89	647	93.66	219.4	
23	94.56	718	211.90	447.0	
24	96.62	812	107.51	200.7	
25	98.11	879	304.38	524.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : Europe-BITS-1-1 1:10**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	100.37	982	79.77	123.1	
27	101.50	1,222	107.76	133.6	
28	102.78	1,609	145.17	136.7	
29	104.63	2,105	103.19	74.3	
30	106.37	2,439	539.90	335.4	
31	109.25	2,989	94.69	48.0	
32	110.43	4,323	48.22	16.9	
33	112.18	6,375	41.62	9.9	
34	113.00	10,380	75.00	10.9	Upper Marker
35	116.65	52,813	0.00	0.0	
36	128.41	189,675	0.00	0.0	

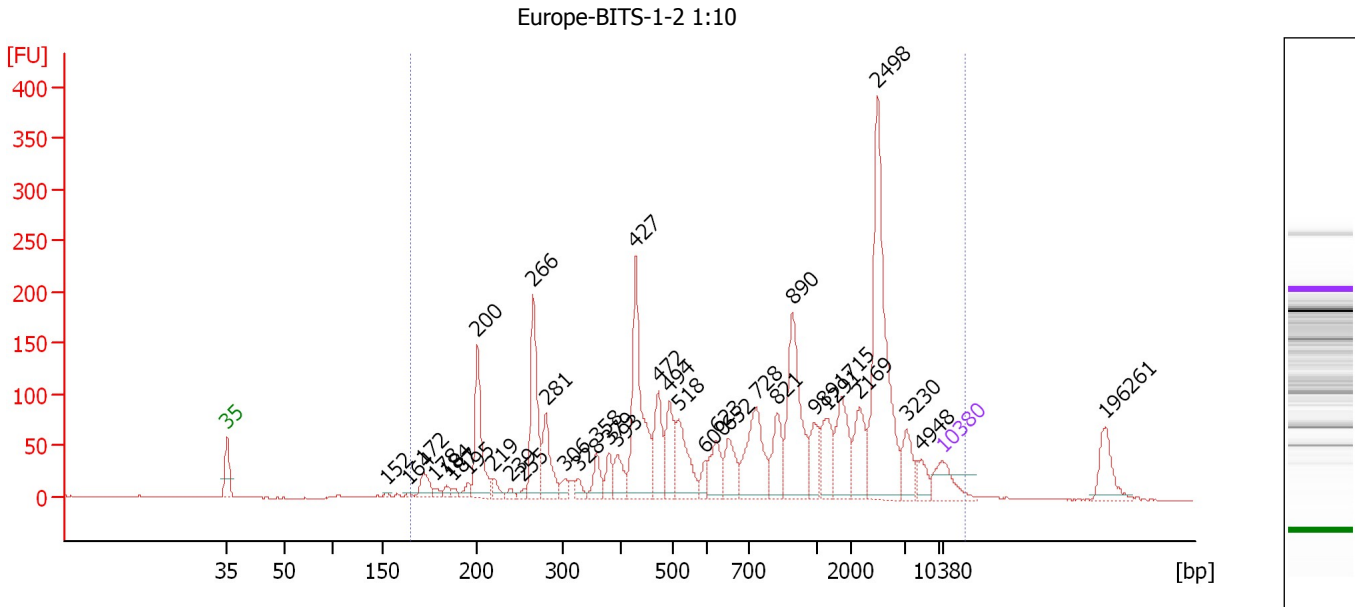
**Region table for sample 6 : Europe-BITS-1-1 1:10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
166	37,343	1,749	12,584.3	4,069.75	3,117.6	96	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Europe-BITS-1-2 1:10**

Number of peaks found: 36                      Corr. Area 1: 3,012.5  
 Noise: 0.3

**Peak table for sample 7 : Europe-BITS-1-2 1:10**

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	58.61	152	8.80	87.4	
3	60.75	164	9.66	89.3	
4	62.21	172	68.13	601.3	
5	63.36	178	18.12	154.5	
6	64.51	184	22.11	182.1	
7	65.13	187	14.62	118.3	
8	66.59	195	27.79	215.9	
9	67.53	200	267.95	2,028.6	
10	69.10	219	33.27	230.1	
11	70.77	239	15.29	96.8	
12	72.02	255	13.39	79.7	
13	72.96	266	310.00	1,766.6	
14	74.22	281	154.03	830.4	
15	76.15	306	30.66	151.7	
16	77.40	328	28.07	129.8	
17	79.17	358	65.96	279.1	
18	80.38	379	52.03	208.3	
19	81.21	393	73.95	285.2	
20	82.99	427	397.18	1,408.7	
21	85.23	472	147.97	474.7	
22	86.33	494	133.68	409.8	
23	87.21	518	160.92	470.3	
24	89.88	600	32.56	82.3	
25	90.87	623	99.67	242.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : Europe-BITS-1-2 1:10**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	92.12	652	99.11	230.2	
27	94.78	728	223.91	465.9	
28	96.82	821	110.42	203.8	
29	98.33	890	311.65	530.8	
30	100.52	989	88.48	135.5	
31	101.72	1,291	101.63	119.3	
32	103.13	1,715	139.78	123.5	
33	104.96	2,169	105.04	73.4	
34	106.68	2,498	504.74	306.1	
35	109.50	3,230	73.64	34.5	
36	110.96	4,948	40.82	12.5	
37	113.00	10,380	75.00	10.9	Upper Marker
38	128.97	196,261	0.00	0.0	

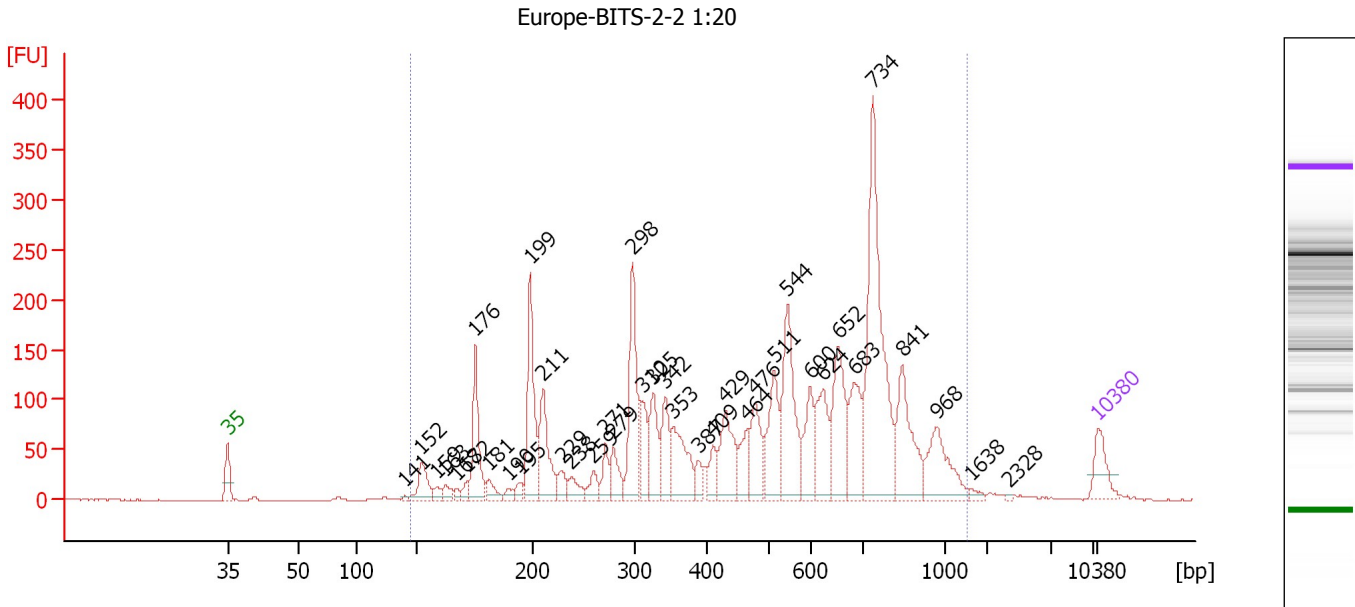
**Region table for sample 7 : Europe-BITS-1-2 1:10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
165	35,962	1,576	12,572.8	3,993.30	3,012.5	96	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Europe-BITS-2-2 1:20**

Number of peaks found: 38                      Corr. Area 1: 3,759.4  
 Noise: 0.4

**Peak table for sample 8 : Europe-BITS-2-2 1:20**

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	57.28	141	9.72	104.5	
3	58.57	152	120.36	1,197.7	
4	59.86	159	31.00	295.2	
5	60.54	163	39.18	364.6	
6	61.44	168	20.01	180.9	
7	62.30	172	35.13	309.1	
8	62.94	176	261.65	2,257.8	
9	63.97	181	53.74	449.7	
10	65.56	190	25.67	205.2	
11	66.59	195	34.24	266.0	
12	67.32	199	367.68	2,800.6	
13	68.39	211	245.47	1,766.6	
14	69.89	229	60.98	404.0	
15	70.67	238	62.02	394.7	
16	72.42	259	56.46	329.8	
17	73.41	271	73.46	410.2	
18	74.05	279	93.62	508.2	
19	75.60	298	352.29	1,792.4	
20	76.37	310	127.93	625.1	
21	77.23	325	171.80	801.5	
22	78.21	342	143.85	638.0	
23	78.86	353	209.24	899.1	
24	80.87	387	48.49	189.8	
25	82.07	409	67.94	251.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : Europe-BITS-2-2 1:20**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	83.06	429	194.26	686.5	
27	84.82	464	96.50	315.1	
28	85.42	476	153.67	489.0	
29	86.96	511	205.61	609.9	
30	88.04	544	332.04	925.6	
31	89.88	600	140.54	355.0	
32	90.91	624	180.50	438.3	
33	92.11	652	251.68	584.8	
34	93.44	683	185.61	411.7	
35	94.90	734	722.45	1,492.2	
36	97.26	841	245.49	442.4	
37	100.05	968	182.47	285.7	
38	102.88	1,638	12.13	11.2	
39	105.79	2,328	3.01	2.0	
40	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : Europe-BITS-2-2 1:20**

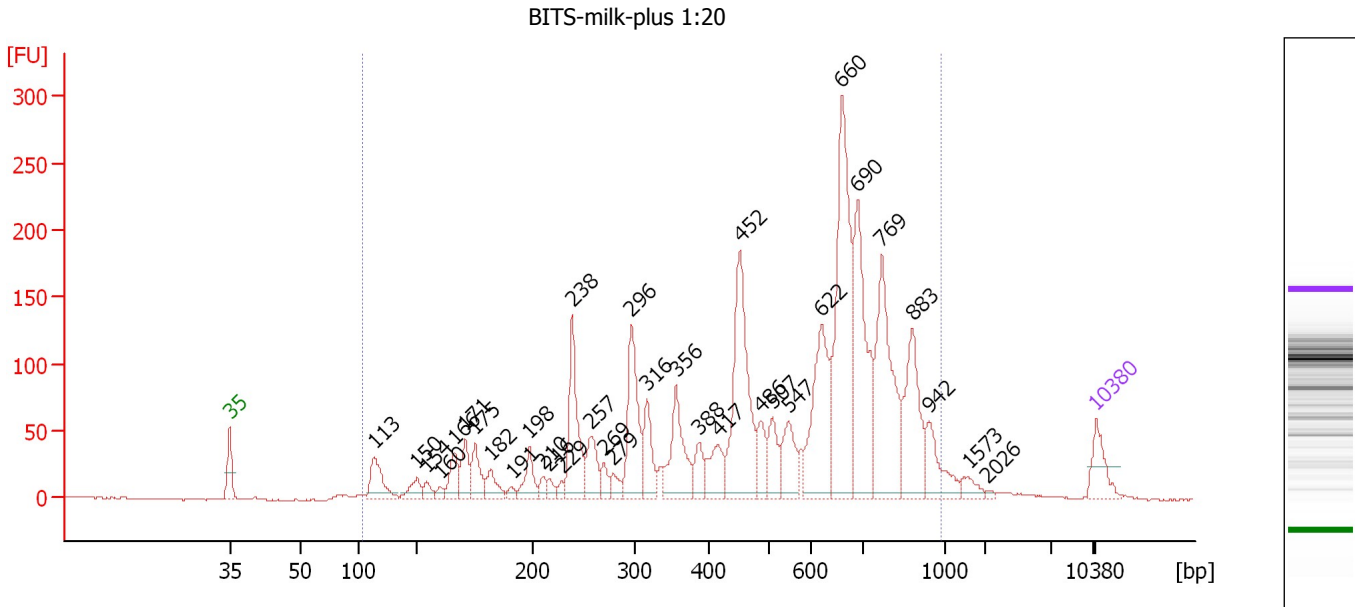
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
145	1,507	529	23,417.1	5,530.45	3,759.4	99	45.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BITS-milk-plus 1:20**

Number of peaks found: 34                      Corr. Area 1: 3,089.1  
 Noise: 0.5

**Peak table for sample 9 : BITS-milk-plus 1:20**

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	54.63	113	163.85	2,199.8	
3	58.16	150	64.97	655.8	
4	58.94	154	36.97	363.2	
5	60.02	160	24.63	233.2	
6	61.18	166	107.12	976.7	
7	62.04	171	116.21	1,031.1	
8	62.86	175	121.05	1,047.3	
9	64.11	182	76.04	633.7	
10	65.79	191	21.91	174.1	
11	67.21	198	101.27	773.6	
12	68.33	210	32.91	237.7	
13	68.80	216	28.63	201.3	
14	69.88	229	21.15	140.2	
15	70.70	238	324.43	2,061.4	
16	72.25	257	130.20	766.9	
17	73.24	269	48.55	273.2	
18	74.02	279	45.75	248.8	
19	75.44	296	320.92	1,643.6	
20	76.73	316	144.21	690.9	
21	79.06	356	236.96	1,008.6	
22	80.95	388	78.36	305.7	
23	82.46	417	118.33	430.4	
24	84.22	452	523.92	1,755.9	
25	85.90	486	94.33	294.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 9 : BITS-milk-plus 1:20**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	86.85	507	105.87	316.1	
27	88.14	547	135.98	376.8	
28	90.82	622	353.52	861.6	
29	92.45	660	658.51	1,511.7	
30	93.74	690	470.65	1,033.1	
31	95.68	769	444.36	875.3	
32	98.18	883	266.68	457.7	
33	99.47	942	126.76	204.0	
34	102.66	1,573	32.24	31.0	
35	104.21	2,026	5.55	4.2	
36	113.00	10,380	75.00	10.9	Upper Marker

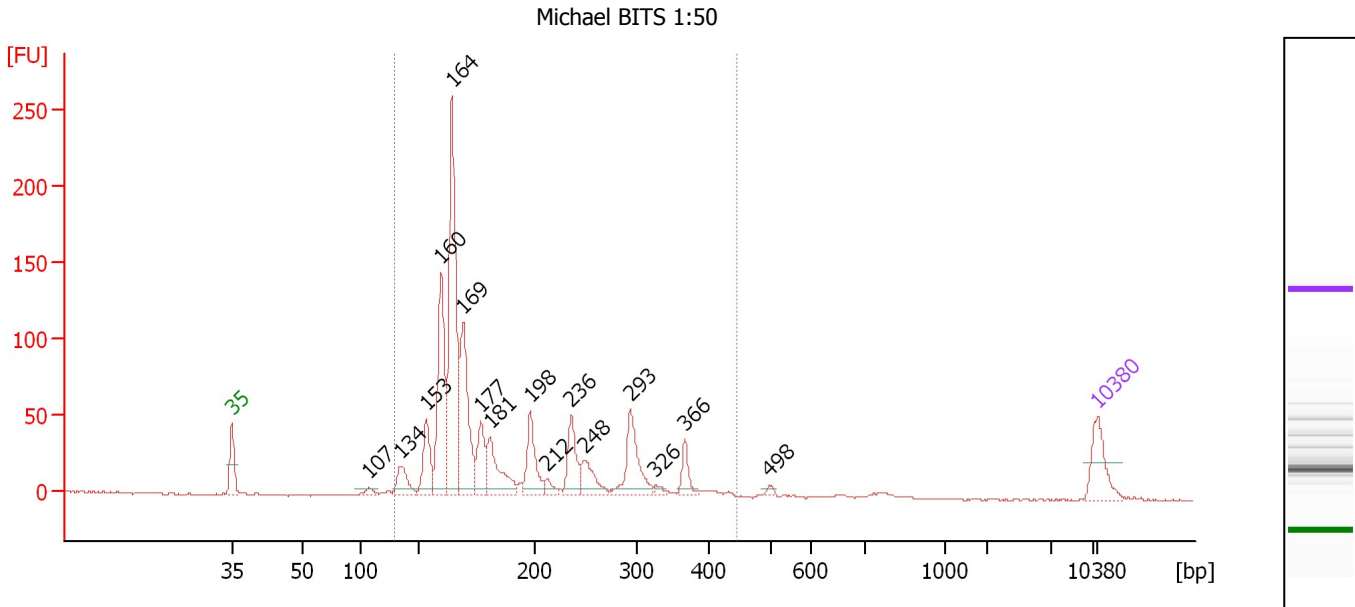
**Region table for sample 9 : BITS-milk-plus 1:20**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
103	986	545	23,251.6	5,538.81	3,089.1	97	40.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Michael BITS 1:50**

Number of peaks found: 16                      Corr. Area 1: 1,140.4  
 Noise: 0.4

**Peak table for sample 10 : Michael BITS 1:50**

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	54.04	107	22.65	321.9	
3	56.59	134	86.50	981.6	
4	58.74	153	138.01	1,365.1	
5	59.95	160	384.43	3,649.0	
6	60.81	164	643.49	5,937.0	
7	61.72	169	331.42	2,970.4	
8	63.14	177	123.43	1,058.8	
9	63.92	181	162.85	1,364.9	
10	67.15	198	138.77	1,061.8	
11	68.53	212	28.73	205.1	
12	70.47	236	121.28	779.5	
13	71.51	248	88.50	540.1	
14	75.22	293	169.05	873.6	
15	77.29	326	12.57	58.4	
16	79.66	366	51.52	213.1	
17	86.52	498	8.51	25.9	
18	113.00	10,380	75.00	10.9	Upper Marker

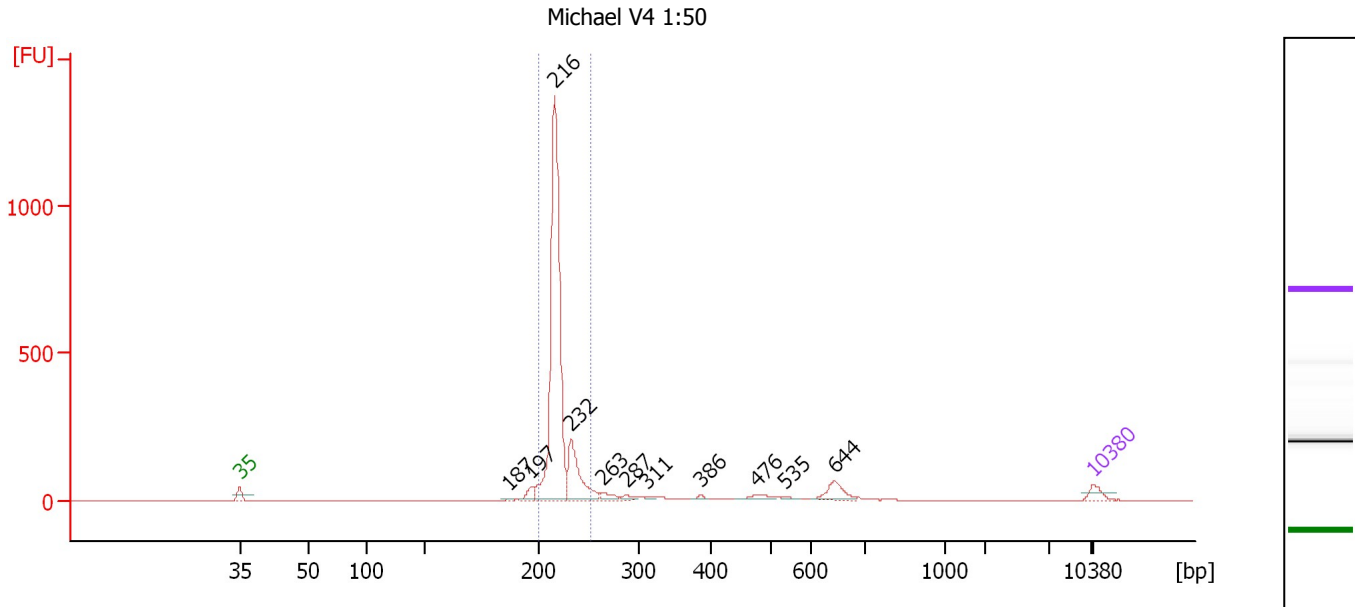
**Region table for sample 10 : Michael BITS 1:50**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
129	444	200	20,751.7	2,502.17	1,140.4	97	30.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Michael V4 1:50**

Number of peaks found: 11                      Corr. Area 1: 2,039.7  
 Noise: 0.4

**Peak table for sample 11 : Michael V4 1:50**

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	65.12	187	14.22	115.1	
3	66.90	197	106.97	824.1	
4	68.81	216	3,827.90	26,902.3	
5	70.16	232	715.63	4,675.6	
6	72.72	263	79.46	457.8	
7	74.72	287	55.23	291.4	
8	76.41	311	26.85	130.9	
9	80.80	386	21.74	85.4	
10	85.41	476	63.66	202.7	
11	87.75	535	19.62	55.6	
12	91.75	644	180.86	425.8	
13	113.00	10,380	75.00	10.9	Upper Marker

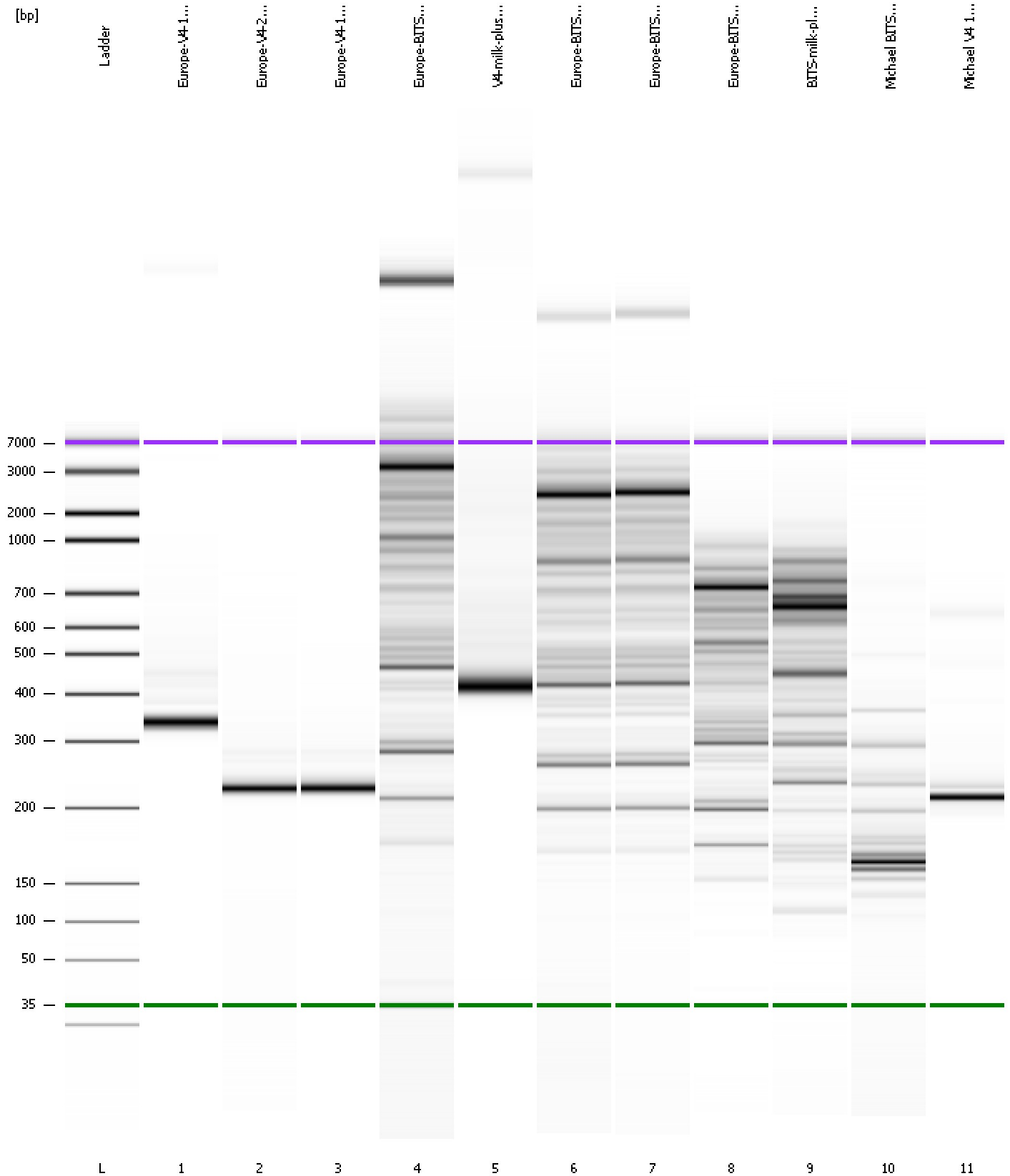
**Region table for sample 11 : Michael V4 1:50**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	252	219	30,687.6	4,441.03	2,039.7	78	4.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
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**Gel Image**

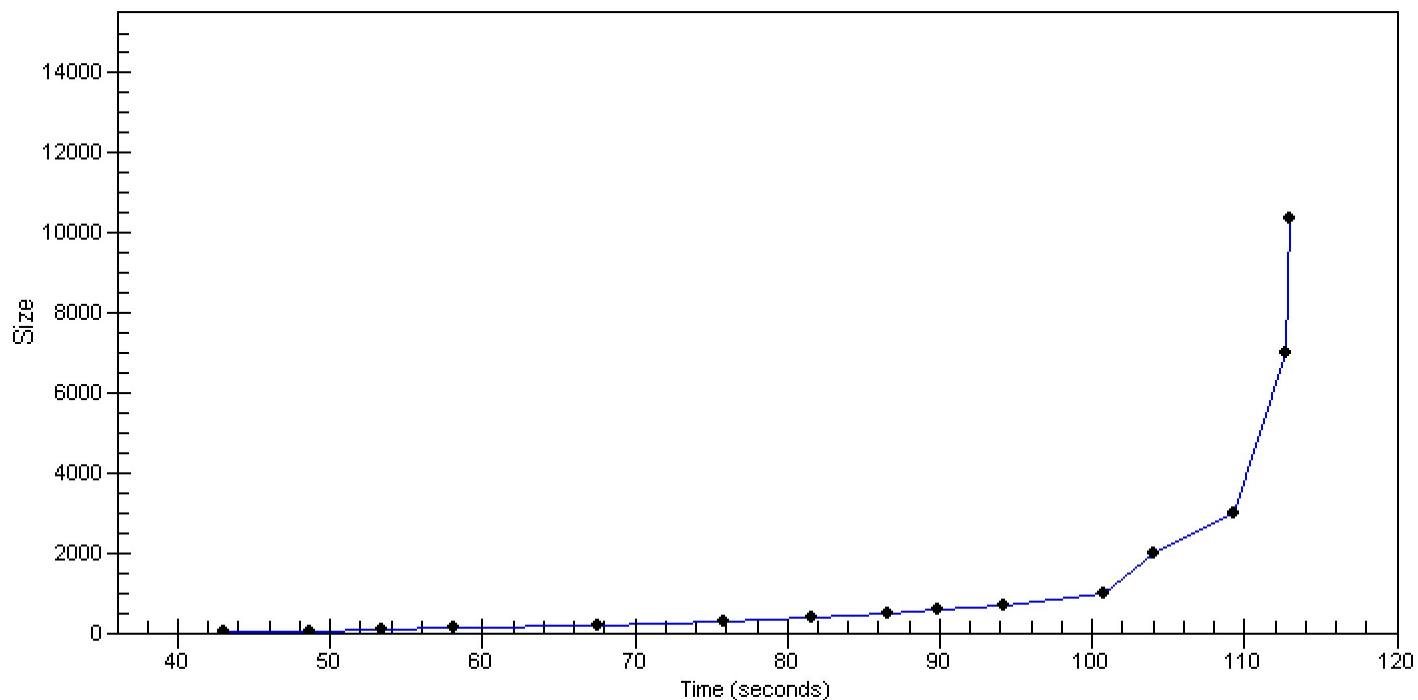


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
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**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_002.xad

Created: 3/19/2014 8:23:06 AM  
 Modified: 3/19/2014 9:41:55 AM

**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		3/19/2014 9:04:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-19\2014-03-19_002.xad)		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/19/2014 8:23:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1