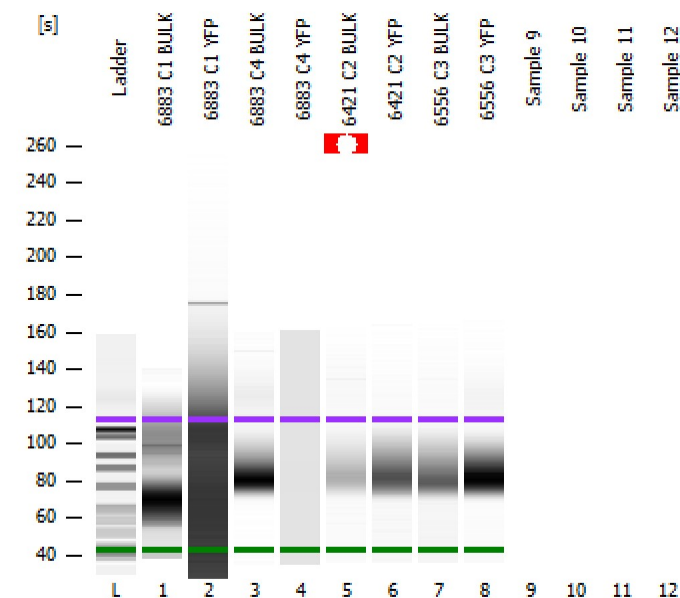


Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: Chodosh  
Serial#: DE54700243  
Firmware: C.01.069  
Type: G2939A

#### Assay Information:

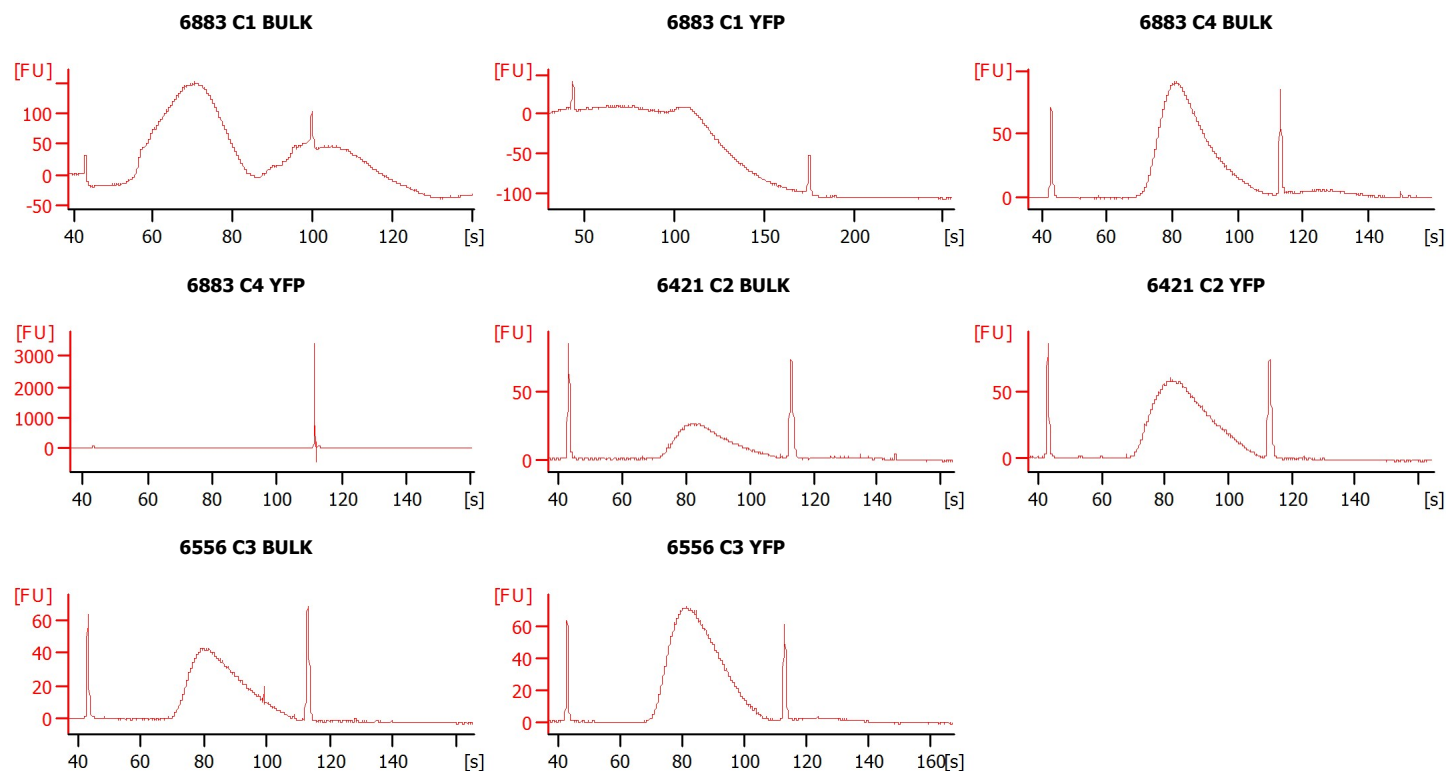
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

Assay Class: DNA 1000  
Version: 2.3  
Assay Comments: DNA Analysis 25 -1000 bp

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#### Chip Information:

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



Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
6883 C1 BULK		<input type="checkbox"/>	✓			
6883 C1 YFP		<input type="checkbox"/>	✓			
6883 C4 BULK		<input type="checkbox"/>	✓			
6883 C4 YFP		<input type="checkbox"/>	✓			
6421 C2 BULK		<input type="checkbox"/>	⚠			
6421 C2 YFP		<input type="checkbox"/>	✓			
6556 C3 BULK		<input type="checkbox"/>	✓			
6556 C3 YFP		<input type="checkbox"/>	✓			
Sample 9		<input type="checkbox"/>				
Sample 10		<input type="checkbox"/>				
Sample 11		<input type="checkbox"/>				
Sample 12		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 30  
Maximum Visible Range [s] : 129  
Start Analysis Time Range [s] : 30  
End Analysis Time Range [s] : 128.95  
Ladder Concentration [ng/μl] : 44  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [ng/μl] : 4.2  
Upper Marker Concentration [ng/μl] : 2.1  
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] : 30  
Integration End Time [s] : 128.95  
Slope Threshold : 0.5  
Height Threshold [FU] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

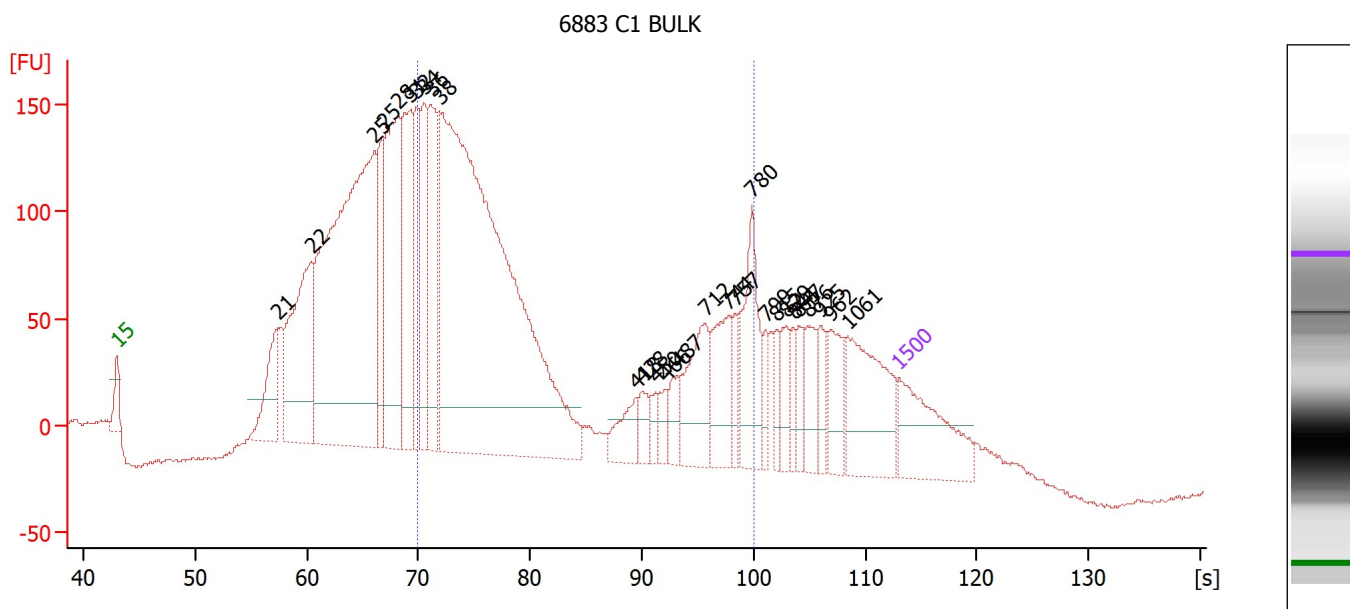
### Ladder

Ladder Peak	Size	Area
1	15	25
2	25	26
3	50	34
4	100	41
5	150	45
6	200	52
7	300	63
8	400	76
9	500	83
10	700	88
11	850	86
12	1000	90
13	1500	52

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

### Electropherogram Summary



### Overall Results for sample 1 : 6883 C1 BULK

Number of peaks found: 28 Area 1: 1,922.7

### Peak table for sample 1 : 6883 C1 BULK

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	21	2.48	179.1	
3	22	7.15	487.6	
4	25	23.19	1,430.3	
5	25	3.20	194.6	
6	28	8.47	461.3	
7	31	5.50	272.8	
8	32	3.55	167.0	
9	34	3.51	155.8	
10	36	4.50	191.4	
11	38	34.25	1,367.5	
12	418	0.71	2.6	
13	428	0.42	1.5	
14	450	0.30	1.0	
15	466	0.33	1.1	
16	487	0.52	1.6	
17	712	1.61	3.4	
18	744	1.40	2.9	
19	757	0.40	0.8	
20	780	2.00	3.9	
21	799	0.40	0.8	
22	815	0.44	0.8	
23	829	0.72	1.3	
24	841	0.38	0.7	
25	847	0.50	0.9	
26	876	0.88	1.5	
27	925	0.57	0.9	

Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****... Peak table for sample 1 : 6883 C1 BULK**

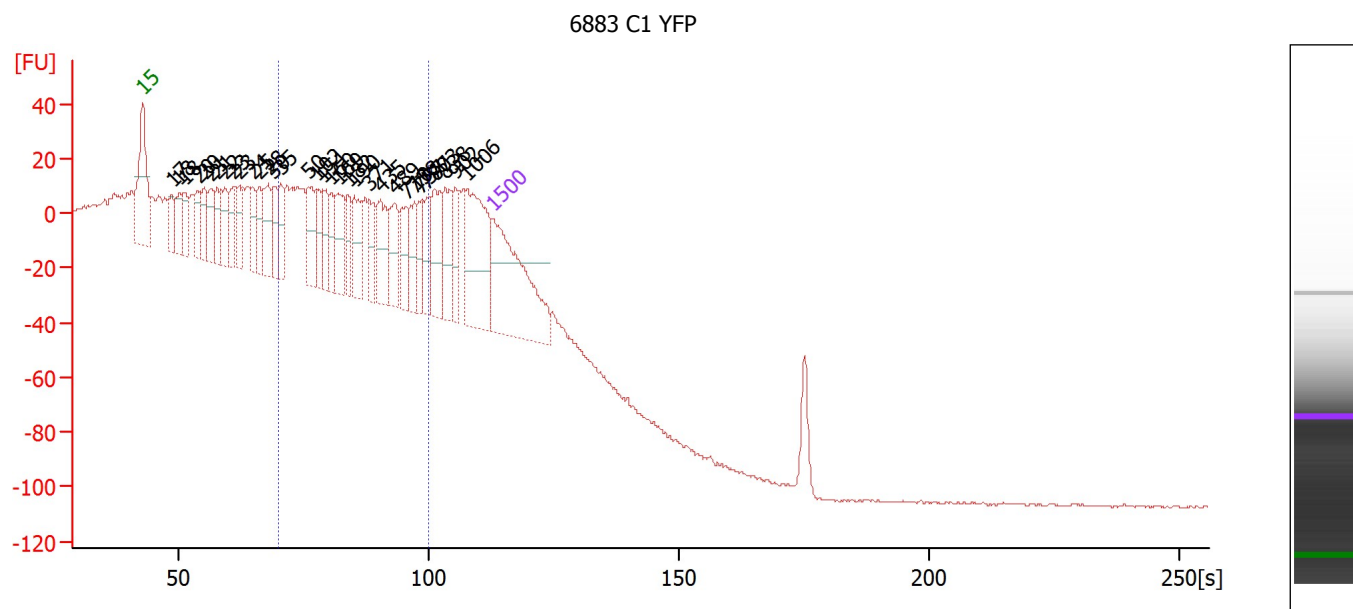
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
28	962	1.08	1.7	
29	1,061	2.69	3.8	
30	1,500	2.10	2.1	Upper Marker

**Region table for sample 1 : 6883 C1 BULK**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	1,922.7	47	240	100.0	45.04	

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : 6883 C1 YFP**

Number of peaks found: 33 Area 1: 422.8


**Peak table for sample 2 : 6883 C1 YFP**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	17	0.78	67.9	
3	18	0.77	64.7	
4	18	0.74	60.8	
5	20	0.93	71.7	
6	20	0.82	61.9	
7	21	0.92	67.4	
8	21	0.86	61.2	
9	22	1.03	71.6	
10	23	0.82	55.2	
11	23	1.02	67.5	
12	24	0.96	60.3	
13	25	0.88	53.9	
14	28	1.32	72.6	
15	30	0.87	43.2	
16	35	0.93	40.6	
17	50	1.31	39.9	
18	102	0.77	11.5	
19	151	0.64	6.5	
20	160	0.56	5.3	
21	169	1.00	8.9	
22	182	0.54	4.5	
23	190	0.89	7.1	
24	371	0.44	1.8	
25	435	0.71	2.5	
26	489	0.59	1.8	
27	710	0.43	0.9	

Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****... Peak table for sample 2 : 6883 C1 YFP**

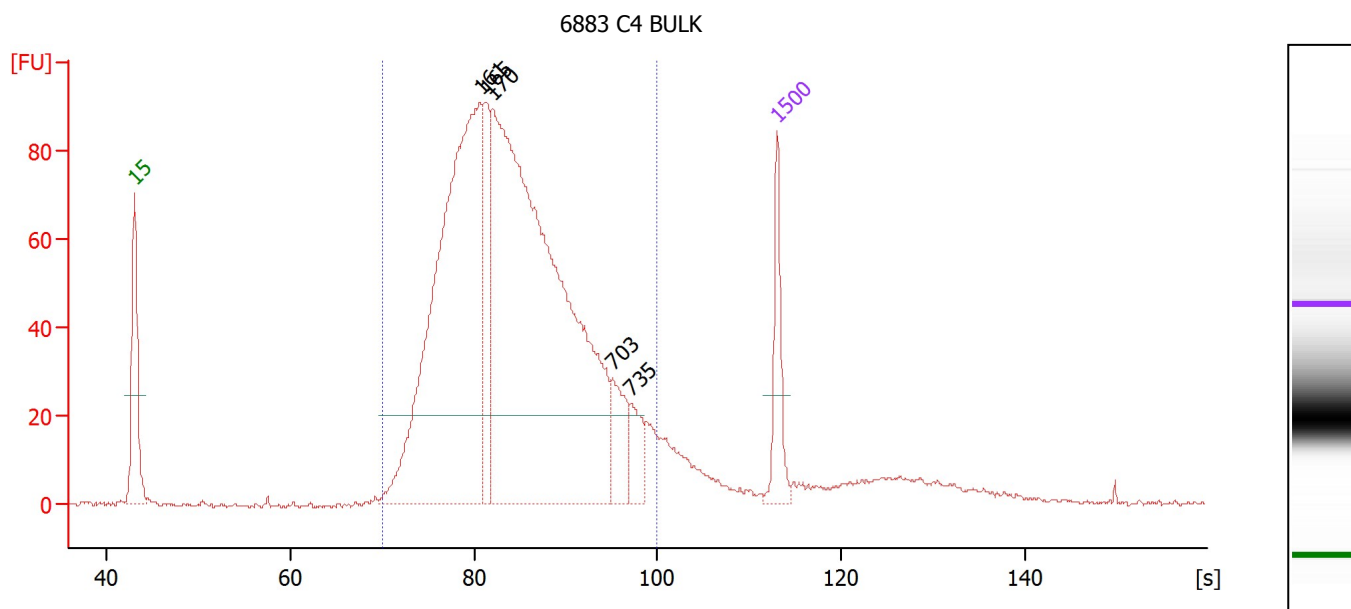
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
28	738	0.52	1.1	
29	757	0.35	0.7	
30	777	0.43	0.8	
31	803	0.81	1.5	
32	838	0.73	1.3	
33	902	0.49	0.8	
34	1,006	1.70	2.6	
35	 1,500	2.10	2.1	Upper Marker

**Region table for sample 2 : 6883 C1 YFP**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	422.8	45	319	79.9	12.12	

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : 6883 C4 BULK**

Number of peaks found: 5      Area 1: 1,168.1

**Peak table for sample 3 : 6883 C4 BULK**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	161	31.93	301.1	
3	165	4.81	44.2	
4	170	45.01	401.6	
5	703	1.68	3.6	
6	735	1.15	2.4	
7	1,500	2.10	2.1	Upper Marker

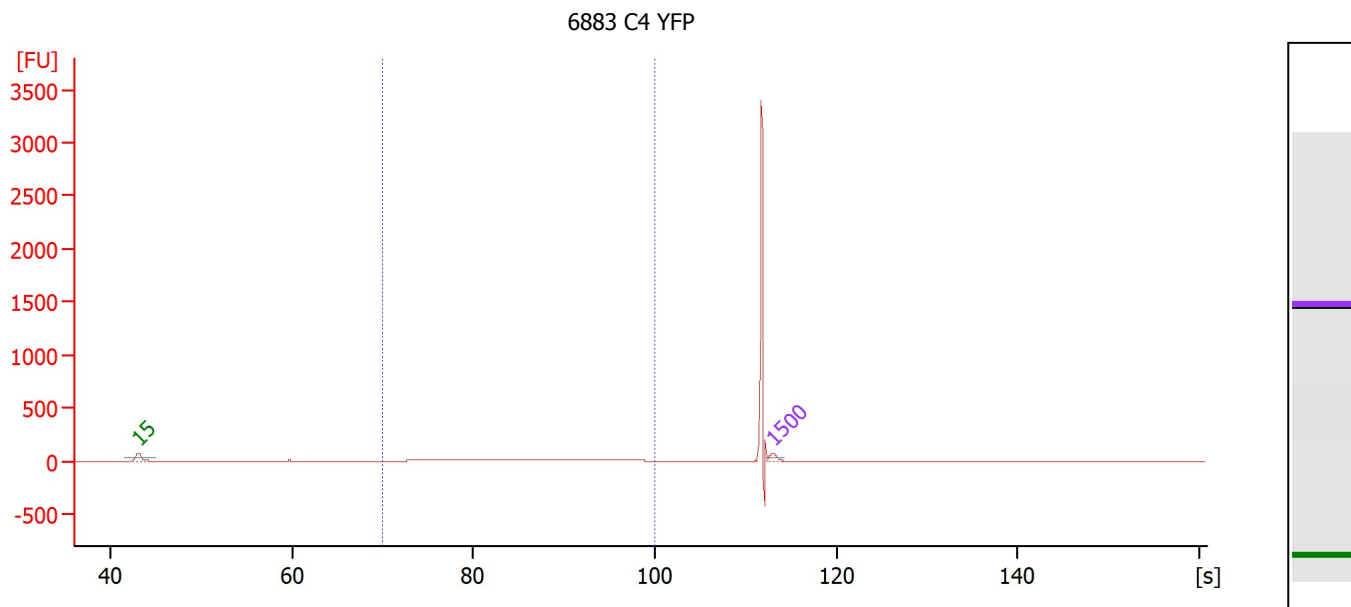
**Region table for sample 3 : 6883 C4 BULK**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	1,168.1	87	254	75.7	82.57	Blue



Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 4 : 6883 C4 YFP**

Number of peaks found: 0      Area 1: 227.6

**Peak table for sample 4 : 6883 C4 YFP**

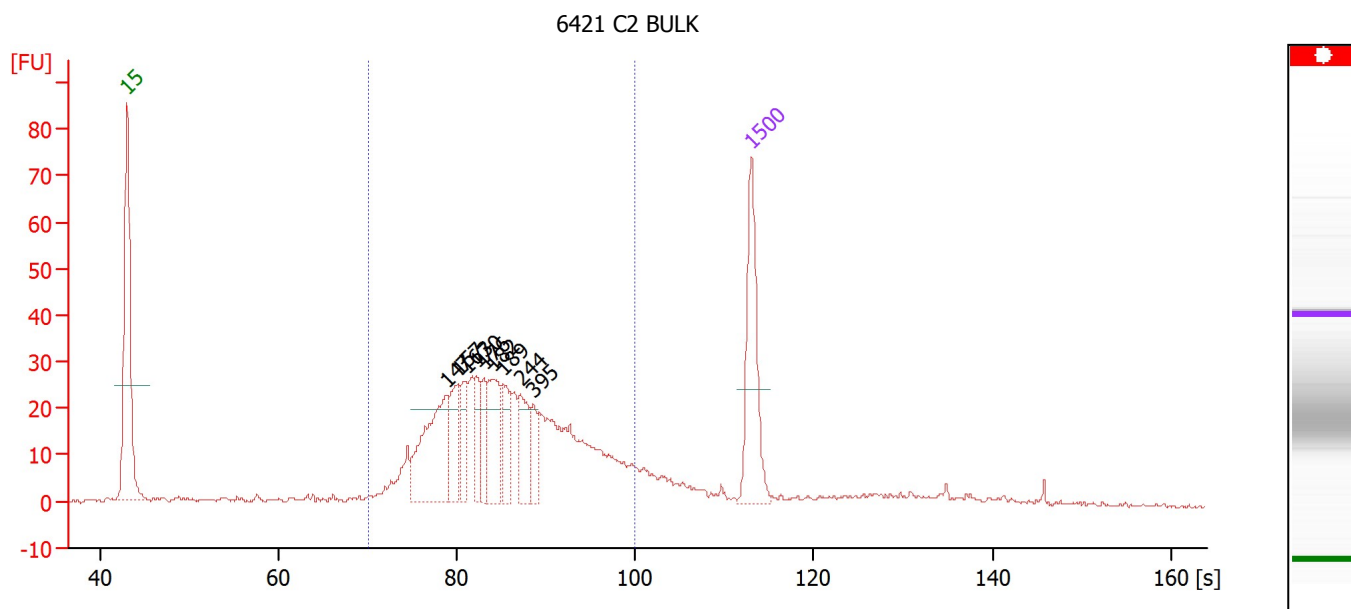
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

**Region table for sample 4 : 6883 C4 YFP**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	227.6	23	258	76.9	18.00	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 6421 C2 BULK**

Number of peaks found: 9 Area 1: 377.5

**Peak table for sample 5 : 6421 C2 BULK**

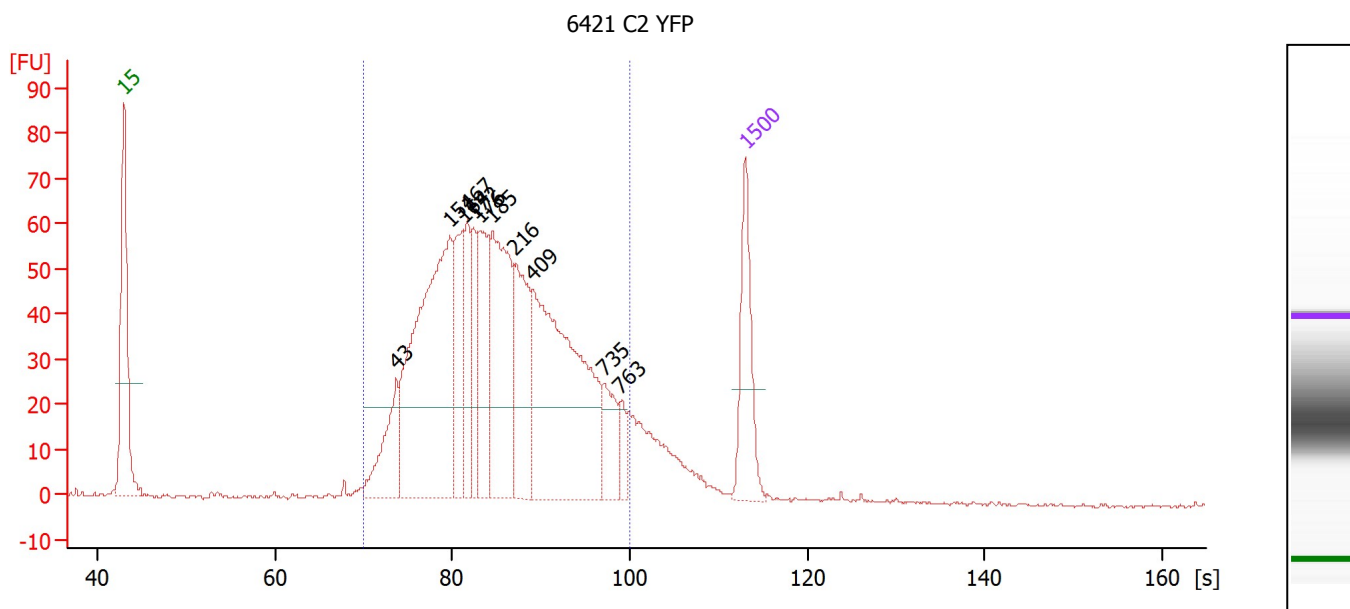
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	147	3.32	34.2	
3	157	1.23	11.9	
4	163	0.75	7.0	
5	170	0.76	6.8	
6	176	0.81	7.0	
7	182	1.59	13.2	
8	189	0.93	7.5	
9	244	1.10	6.8	
10	395	0.51	2.0	
11	1,500	2.10	2.1	Upper Marker

**Region table for sample 5 : 6421 C2 BULK**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	377.5	79	287	72.3	19.35	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : 6421 C2 YFP**

Number of peaks found: 11      Area 1: 889.7

**Peak table for sample 6 : 6421 C2 YFP**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	43	3.18	113.1	
3	154	11.98	117.7	
4	164	3.11	28.7	
5	167	2.00	18.1	
6	172	1.63	14.4	
7	176	3.34	28.8	
8	185	6.17	50.5	
9	216	3.62	25.4	
10	409	7.49	27.8	
11	735	1.03	2.1	
12	763	0.44	0.9	
13	1,500	2.10	2.1	Upper Marker

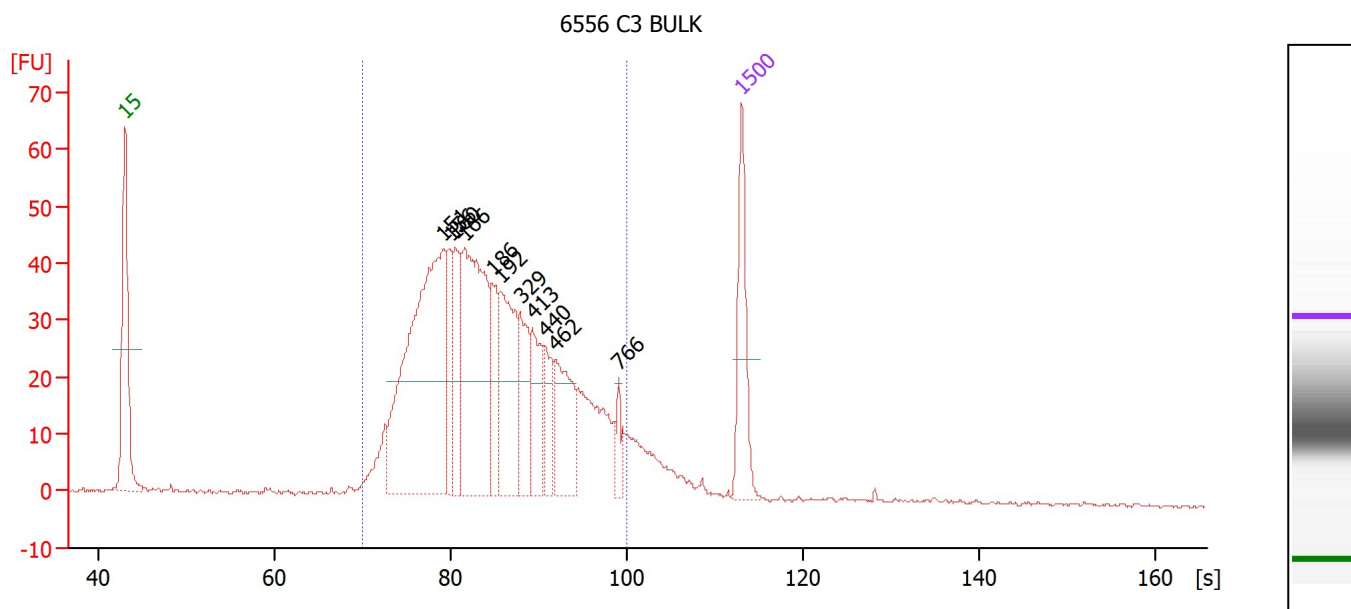
**Region table for sample 6 : 6421 C2 YFP**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	889.7	91	283	74.7	45.06	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : 6556 C3 BULK

Number of peaks found: 11 Area 1: 616.1

### Peak table for sample 7 : 6556 C3 BULK

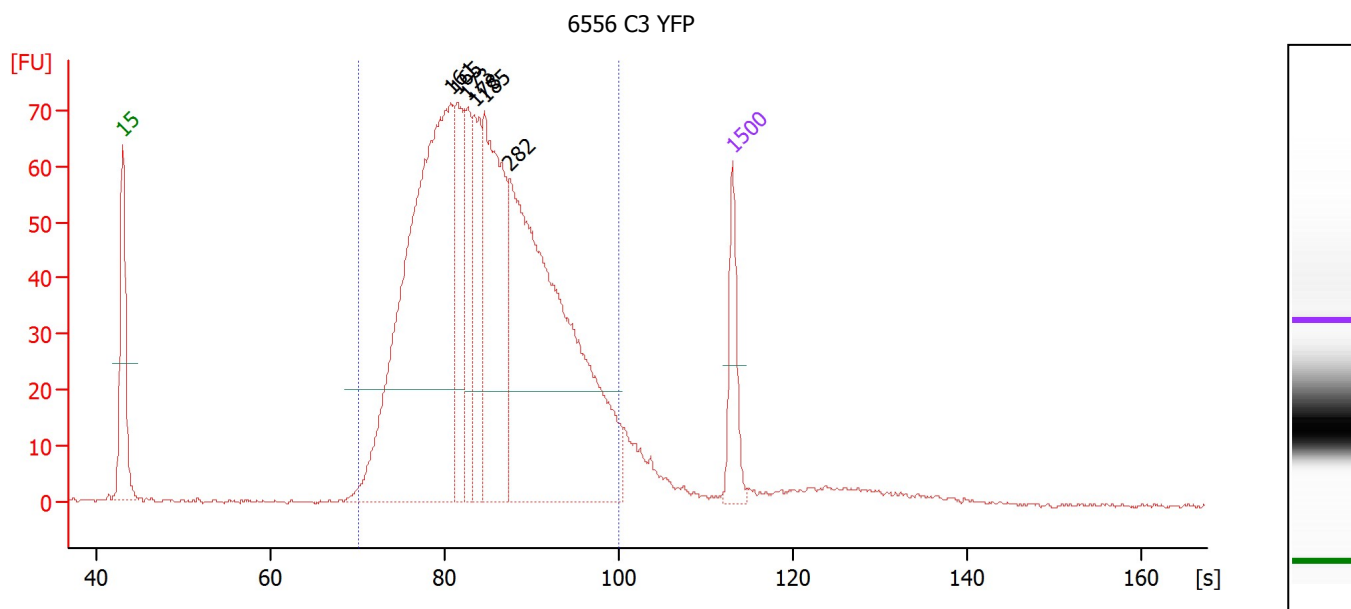
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	151	12.98	130.2	
3	156	1.92	18.7	
4	160	2.24	21.2	
5	166	8.01	73.1	
6	186	2.04	16.6	
7	192	3.94	31.1	
8	329	1.77	8.2	
9	413	1.47	5.4	
10	440	1.00	3.4	
11	462	1.85	6.1	
12	766	0.41	0.8	
13	1,500	2.10	2.1	Upper Marker

### Region table for sample 7 : 6556 C3 BULK

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	616.1	91	267	77.9	45.18	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
 Modified: 9/13/2016 4:04:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : 6556 C3 YFP**

Number of peaks found: 6 Area 1: 991.0

**Peak table for sample 8 : 6556 C3 YFP**

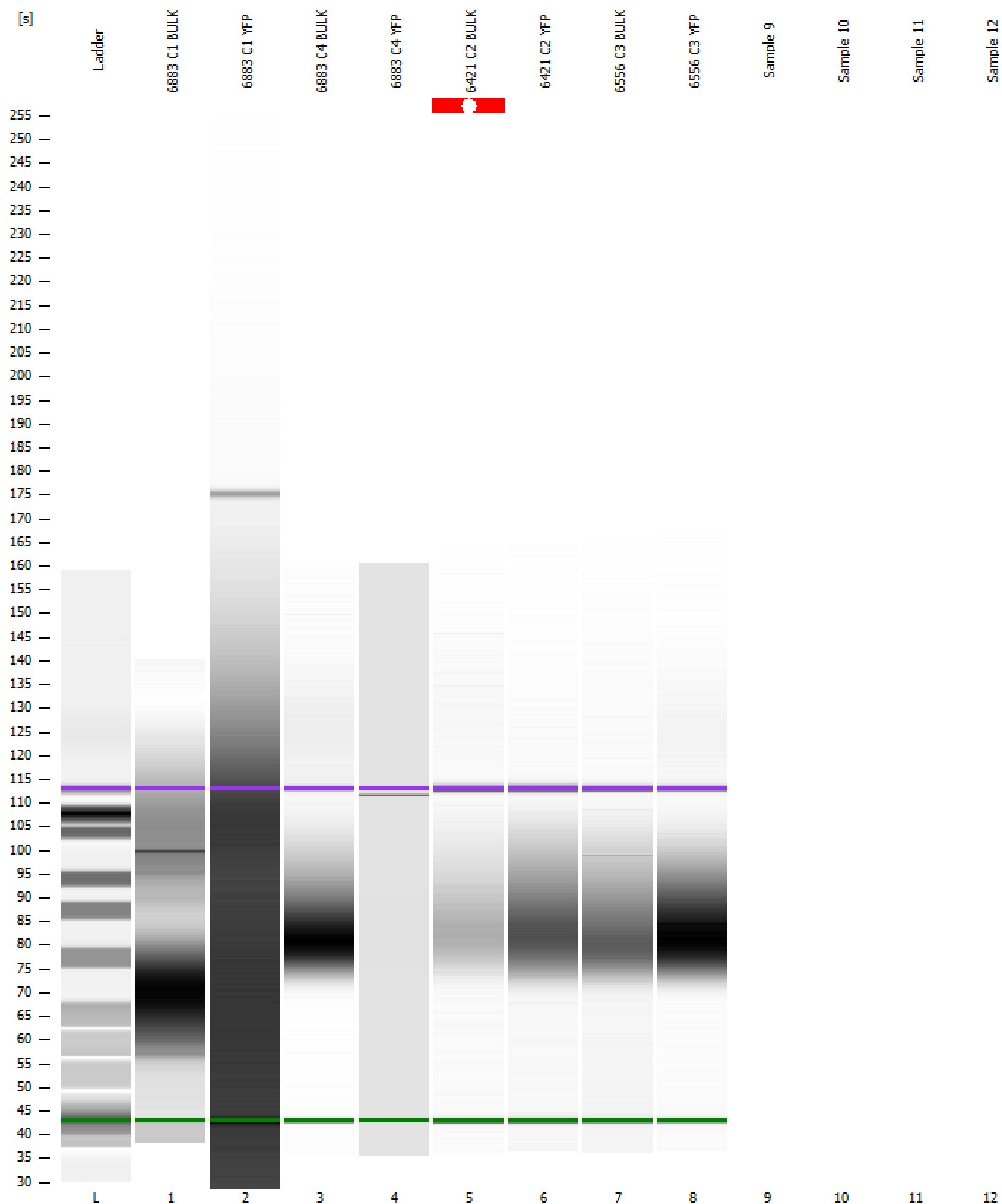
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	161	31.52	296.3	
3	165	5.82	53.3	
4	173	3.75	32.9	
5	178	4.53	38.6	
6	185	12.19	99.6	
7	282	24.04	129.0	
8	1,500	2.10	2.1	Upper Marker

**Region table for sample 8 : 6556 C3 YFP**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	991.0	92	267	75.1	83.06	Blue

Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

**Gel Image**

Assay Class: DNA 1000  
Data Path: C:\...-13\2100 expert\_DNA 1000\_DE54700243\_2016-09-13\_15-04-31.xad

Created: 9/13/2016 3:04:30 PM  
Modified: 9/13/2016 4:04:07 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.