

**Electrophoresis File Run Summary** 

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Assay Class:

Data Path:

[s]

High Sensitivity DNA Assay

C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

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DE13701086

DE13701086

Instrument Information:

Instrument Name:

Serial#:

Ω

10/30/2013 2:06:39 PM Created: Modified: 10/30/2013 2:47:39 PM

Firmware: C.01.069

Type:

G2938B

Assay Class:High Sensitivity DNA AssayCreated:10/30/2013 2:06:39 PlData Path:C:\ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_007.xadModified:10/30/2013 2:47:39 PlElectrophoresis File Run Summary (Chip Summary)Electrophoresis File Run Summary (Chip Summary)Electrophoresis File Run Summary (Chip Summary)							
Sample Name	Sample Comment Rest. Digest Status Observation	Result Label	Result Color				
sample 2			COIDI				

sample 2	~
sample 3	$\sim$
sample 4	$\checkmark$
sample5	$\checkmark$
sample 6	$\checkmark$
sample 7	$\checkmark$
sample 8	$\sim$
sample 9	$\sim$
sample 10	$\checkmark$
sample 11	$\sim$
sample 13	×
Ladder	$\checkmark$

Chip Lot #

Reagent Kit Lot #

**Chip Comments :** 

Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

## 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] : 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

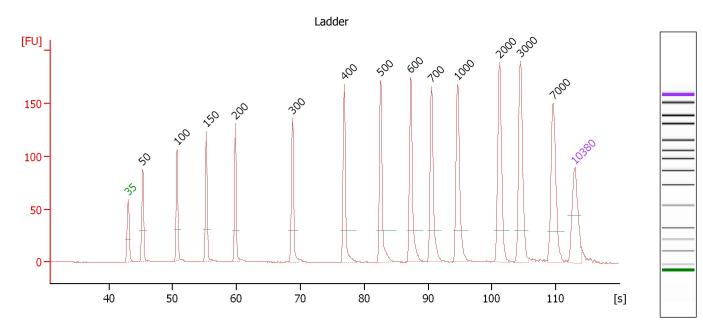
Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

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#### High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad Assay Class: Data Path:

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# **Electropherogram Summary**



## **Overall Results for Ladder**

Noise:

0.2

# 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: Data Path:	High Sensitivit C:\ents and ogram Summa			2013-10-3	80\2013-10	-30_007.xa	ad		Created: Modified:	10/30/2013 2:06:39 PM 10/30/2013 2:47:39 PM
Electropher	ogram Summa	iry continu	ieu	samp						
[FU]_				Samp					0	
80 -	0								•	
60 -										
40 -										
20 -										
0		^		·					-montal	<u> </u>
4	0 50	60	70	80	90	100	110	120	130	[s]

#### Overall Results for sample 1 : sample 2

2013-10-30\_007.xad

Number of peaks found:			1	Noise:	0.2
Peak ta Peak	able	for sample 1 : Size [bp]	<u>sample 2</u> Conc. [pg/µl]	Molarity [pmol/l]	Observations
I Cak			conc. [pg/pi]		Objervations
1		0	0.00	0.0	Lower Marker
2		0	0.00	0.0	

٢t	able	for sample 1 :	sample 2	
K		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]
		0	0.00	0.0
		0	0.00	0.0

Assay Class: Data Path:	High Sensitivity DNA Assay C:\ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_007.xad	Created: Modified:	10/30/2013 2:06:39 PM 10/30/2013 2:47:39 PM
Electrophe	ogram Summary Continued		
	sample 3		
[FU]		0	
100 -		Ĭ	
80 -	0	l.	
60 -			
40 -			
20-			
0		when the second se	
	0 50 60 70 80 90 100 110 120	130	[s]

## Overall Results for sample 2 : <u>sample 3</u>

2013-10-30\_007.xad

Number of p	eaks found:	1	Noise:	0.1
Peak table Peak 1 4 2	e for sample 2 : Size [bp] 0 0	<u>sample 3</u> Conc. [pg/µl] 0.00 0.00	<b>Molarity [pmol/l]</b> 0.0 0.0	<b>Observations</b> Lower Marker

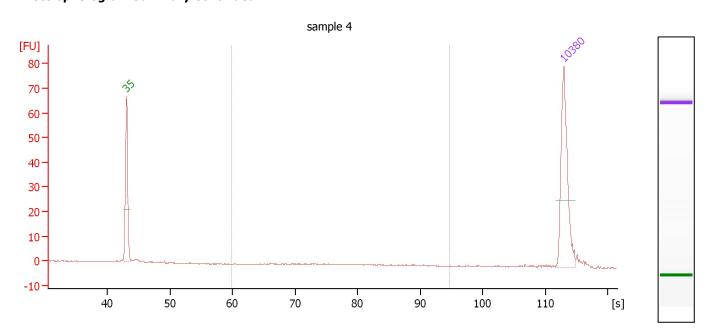
Created: Modified:

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lor

# Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Electropherogram Summary Continued ...



From [bp]	Т	o [bp] Average S [bp]	Size Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	1
Region	tab	le for sample 3	B: <u>sample</u>	<u>4</u>				
2	Þ	10,380	75.00	10.9			Upper Marker	
1	4	35	125.00	5,411	<i>,</i>	-	Lower Marker	
Peak		Size [bp]	Conc. [pg/µl]	Mola	rity [pmol	/I]	Observations	
Peak ta	able	for sample 3 :	sample 4					
Noise:			0.1					
Number of peaks found:		0	Corr.		1.4			
Overal	l Re	sults for sample	e 3 : <u>sampl</u> e	<u>e 4</u>				

1.62

1.4

10

25.3

200

1,000

519

5.2

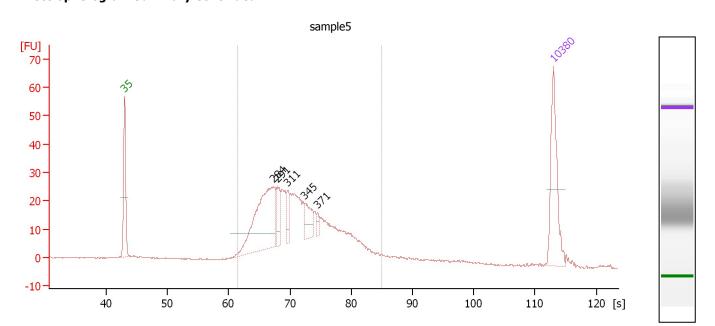
Created: Modified:

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lor

# Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Electropherogram Summary Continued ...



Overall Results for sample 4 : <u>sample5</u>										
Number of peaks found:			5	5 Corr. Area 1: 522.1						
Noise:			0.1	0.1						
Peak	table	for sample 4	: <u>sample5</u>							
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations					
1										
-	•	35	125.00	5,411.3	Lower Marker					
2		35 284	125.00 202.91	5,411.3 1,084.4	Lower Marker					
2 3	•			,	Lower Marker					

154.0

522.1

87

21.1

6 7			3.69 '5.00	35.5 10.9			Upper Marker
Region	tab	le for sample 4 :	sample5				
From [bp]	Т	o [bp] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]

814.63

35.12

3,871.7

5

219

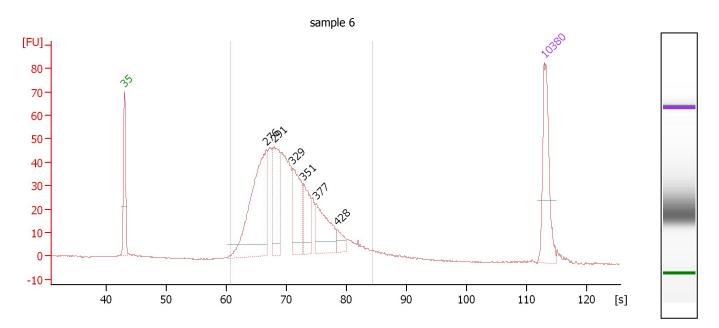
345

551

338

Created: Modified:

# Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad



Overall Results for samp	ole 5: <u>sample 6</u>		
Number of peaks found:	6	Corr. Area 1:	821.3
Noise:	0.1		
Peak table for sample 5	: <u>sample 6</u>		

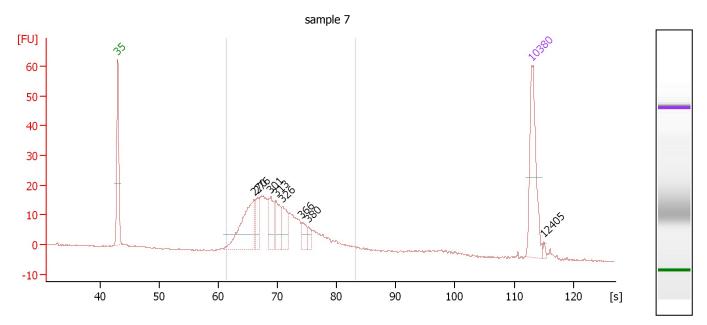
Peak		Size [bp]	Conc. [pg/µl]	Molar	ity [pmol	/I]	Observations			
1		35	125.00	5,411.	3		Lower Marker			
2		276	275.12	1,508.	1					
3		291	115.07	599.3						
4		329	98.06	452.2						
5		351	60.73	262.5						
6		377	82.42	331.7						
7		428	17.19	60.9						
8		10,380	75.00	10.9			Upper Marker			
Regior	Region table for sample 5 : <u>sample 6</u>									
<b>From</b> [bp] 209		<b>o [bp] Average S</b> [ <b>bp]</b> 38 325	Size Molarity [pmol/l] 4,839.5	<b>Conc. [pg/µl]</b> 990.48	<b>Corr.</b> Area 821.3	<b>% of</b> Total 96	Size distribution in CV [%] 19.5	Co lor		

Noise:

# Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

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### Electropherogram Summary Continued ...



308.1

<b>Overall Results for sample</b>	6:	sample 7	
Number of peaks found:	8		Corr. Area 1:

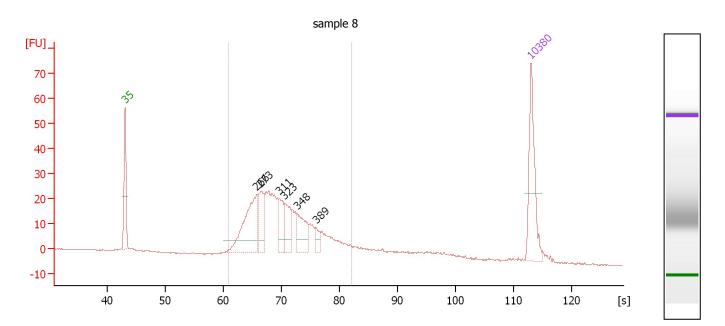
0.1

Peak t	able	for sample 6 :	sample 7					
Peak		Size [bp]	Conc. [pg/µl]	Molar	ity [pmol/	1]	Observations	
1		35	125.00	5,411.	3		Lower Marker	
2		270	113.10	634.9				
3		276	26.81	146.9				
4		301	45.46	228.9				
5		313	36.94	179.1				
6		326	37.30	173.3				
7		366	17.05	70.5				
8		380	9.93	39.6				
9		10,380	75.00	10.9			Upper Marker	
10		12,405	0.00	0.0				
Region	ı tab	le for sample 6	: <u>sample 7</u>					
From [bp]	T	o [bp] Average S [bp]	ize Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
218	5	11 323	2,464.6	503.12	308.1	87	18.8	

Created: Modified:

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Data Path:C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xadElectropherogram Summary Continued ...



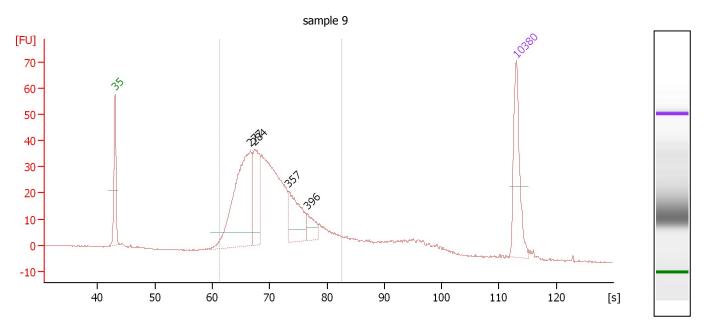
Overall Results for samp	ole 7: <u>sample 8</u>		
Number of peaks found:	6	Corr. Area 1:	441.3
Noise:	0.1		
Peak table for sample 7	: <u>sample 8</u>		

Peak		Size [bp]	Conc. [pg/µl]	Molar	ity [pmol,	/I]	Observations	
1		35	125.00	5,411.	3		Lower Marker	
2		266	150.90	860.6				
3		273	64.52	357.5				
4		311	44.48	216.6				
5		323	47.99	225.4				
6		348	55.99	243.6				
7		389	15.93	62.1				
8		10,380	75.00	10.9			Upper Marker	
Regior	ı tab	ole for sample 7	: <u>sample 8</u>					
From [bp] 211		o [bp] Average S [bp] 92 321	Size Molarity [pmol/l] 3,312.8	<b>Conc.</b> [pg/µl] 670.48	<b>Corr.</b> Area 441.3	<b>% of</b> Total 83	Size distribution in CV [%] 19.1	Co lor

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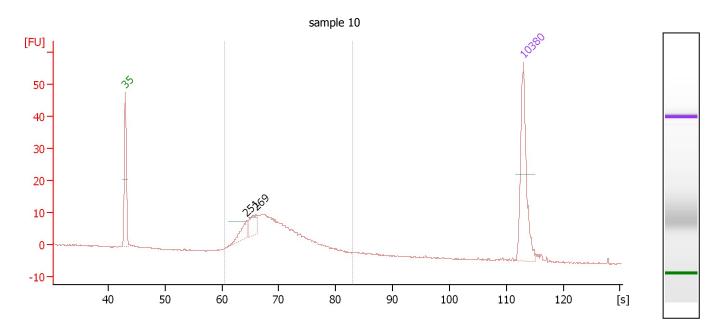
Overall Results for sample 8 : <u>sample 9</u>									
Number o	of peaks found:	4	Corr. Area 1:	666.6					
Noise:		0.1							
Peak ta	Peak table for sample 8 : <u>sample 9</u>								
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations					
1	4 35	125.00	5,411.3	Lower Marker					
2	277	291.29	1,595.8						
3	284	110.73	589.9						
4	357	85.15	361.8						
5	396	26.91	102.9						
6	10,380	75.00	10.9	Upper Marker					

Region table for sample 8 :		sample 9						
From [bp]	To [bp	o] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co Ior
217	500	322	4,708.6	954.85	666.6	82	19.4	

Created: Modified:

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Electropherogram Summary Continued ...



Overal	Overall Results for sample 9 : <u>sample 10</u>									
Number	of p	eaks found:	2	Corr. A	Area 1:		187.9			
Noise:			0.1							
Peak ta	Peak table for sample 9 : <u>sample 10</u>									
Peak		Size [bp]	Conc. [pg/µl]	Molar	ity [pmol/	/I]	Observations			
1		35	125.00	5,411.	3		Lower Marker			
2		251	24.05	145.0						
3		269	26.15	147.1						
4		10,380	75.00	10.9			Upper Marker			
Region	Region table for sample 9 : <u>sample 10</u>									
From [bp]	Т	o [bp] Average S [bp]	ize Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor		

346.45

187.9

93

18.6

207

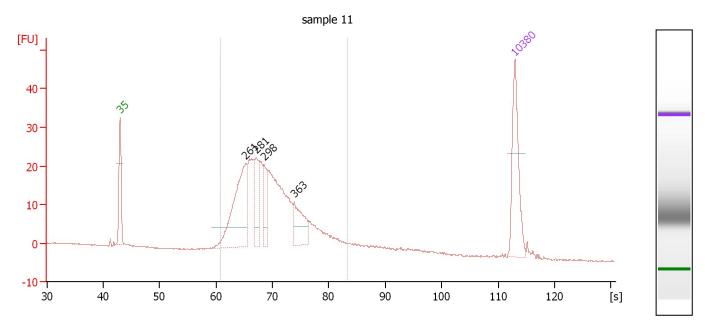
508

311

1,758.9

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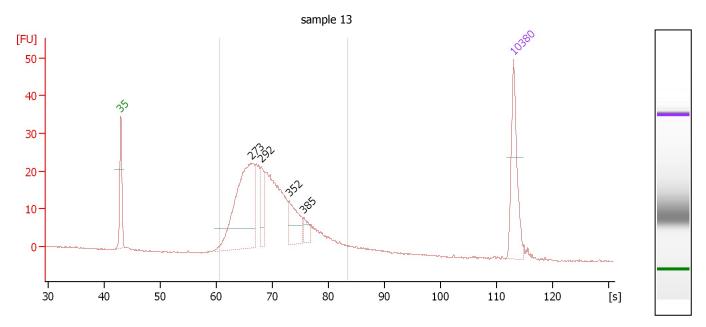


Overall Results for samp	le 10 :	sample 11		
Number of peaks found:	4		Corr. Area 1:	391.9
Noise:	0.1			
Peak table for sample 10	): <u>s</u>	ample 11		

r can ta	DIC	ior sample ro	<u>Sample II</u>					
Peak		Size [bp]	Conc. [pg/µl]	Molari	ity [pmol/	1]	Observations	
1	€.	35	125.00	5,411.3	3		Lower Marker	
2		261	187.86	1,089.7	7			
3		281	56.90	306.4				
4		298	52.49	267.0				
5		363	57.72	240.7				
6		10,380	75.00	10.9			Upper Marker	
Region	tab	le for sample 10	: <u>sample 1</u>	<u>1</u>				
<b>From</b> [ <b>bp]</b> 211	<b>Тс</b> 51	<b>[bp] Average Si</b> [bp] .4 316	ze Molarity [pmol/l] 4,034.7	<b>Conc. [pg/µl]</b> 802.19	<b>Corr.</b> Area 391.9	<b>% of</b> Total 91	Size distribution in CV [%] 19.7	Co lor

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<b>Overall Results for sampl</b>	e 11 :	sample 13		
Number of peaks found:	4	C	Corr. Area 1:	387.7
Noise:	0.1			

Peak table for sample 11 : <u>sample 13</u>								
Peak		Size [bp]	Conc. [pg/µl]	Mola	rity [pmol,	/I]	Observations	
1		35	125.00	5,411	.3		Lower Marker	
2		273	292.89	1,627	.2			
3		292	50.47	261.9				
4		352	64.59	277.7				
5		385	16.78	66.1				
6		10,380	75.00	10.9			Upper Marker	
Region table for sample 11 : <u>sample 13</u>								
From	Т	o [bp] Average S	Size Molarity	Conc.	Corr.	% of	Size distribution in	Со
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
209	5	18 316	4,230.9	841.95	387.7	95	19.7	

