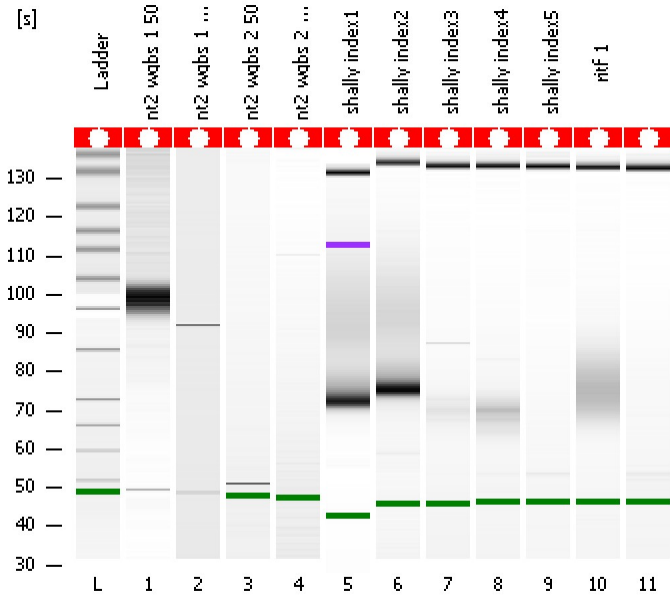


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

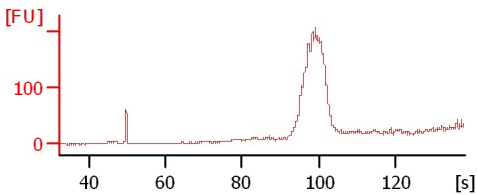
#### Assay Information:

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

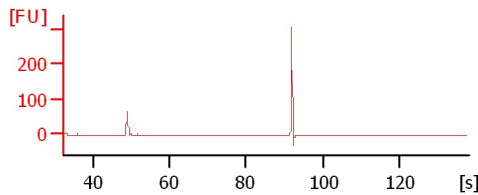
#### Chip Information:

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

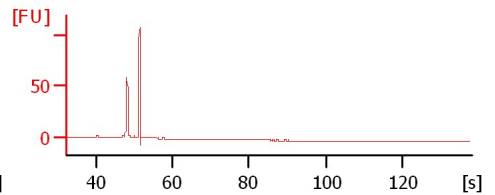
nt2 wgbs 1 50



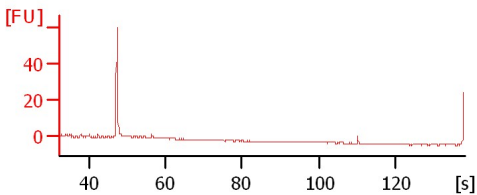
nt2 wgbs 1 100



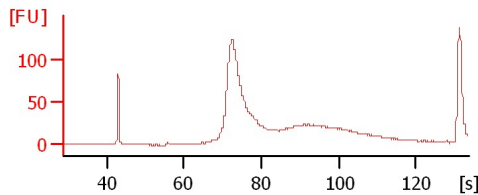
nt2 wgbs 2 50



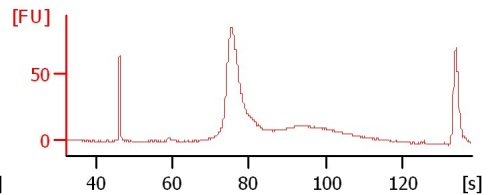
nt2 wgbs 2 100



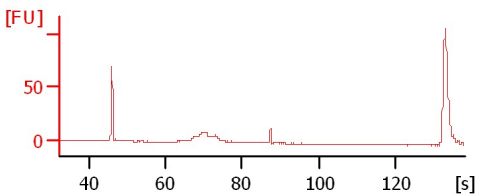
shally index1



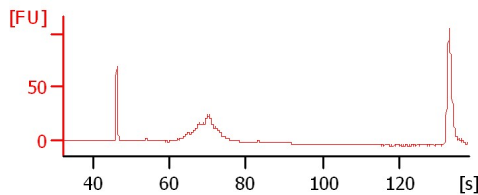
shally index2



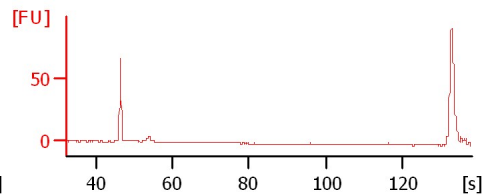
shally index3



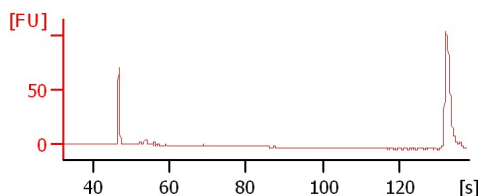
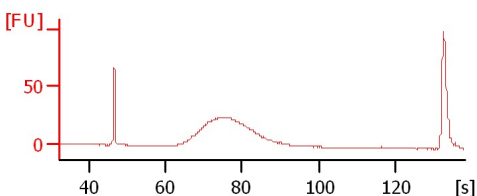
shally index4



shally index5



ritf 1



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
nt2 wgbs 1 50		<input type="checkbox"/>	✓			
nt2 wgbs 1 100		<input type="checkbox"/>	✓			
nt2 wgbs 2 50		<input type="checkbox"/>	✓			
nt2 wgbs 2 100		<input type="checkbox"/>	✓			
shally index1		<input type="checkbox"/>	✓			
shally index2		<input type="checkbox"/>	✓			
shally index3		<input type="checkbox"/>	✓			
shally index4		<input type="checkbox"/>	✓			
shally index5		<input type="checkbox"/>	✓			
ritf 1		<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\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 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

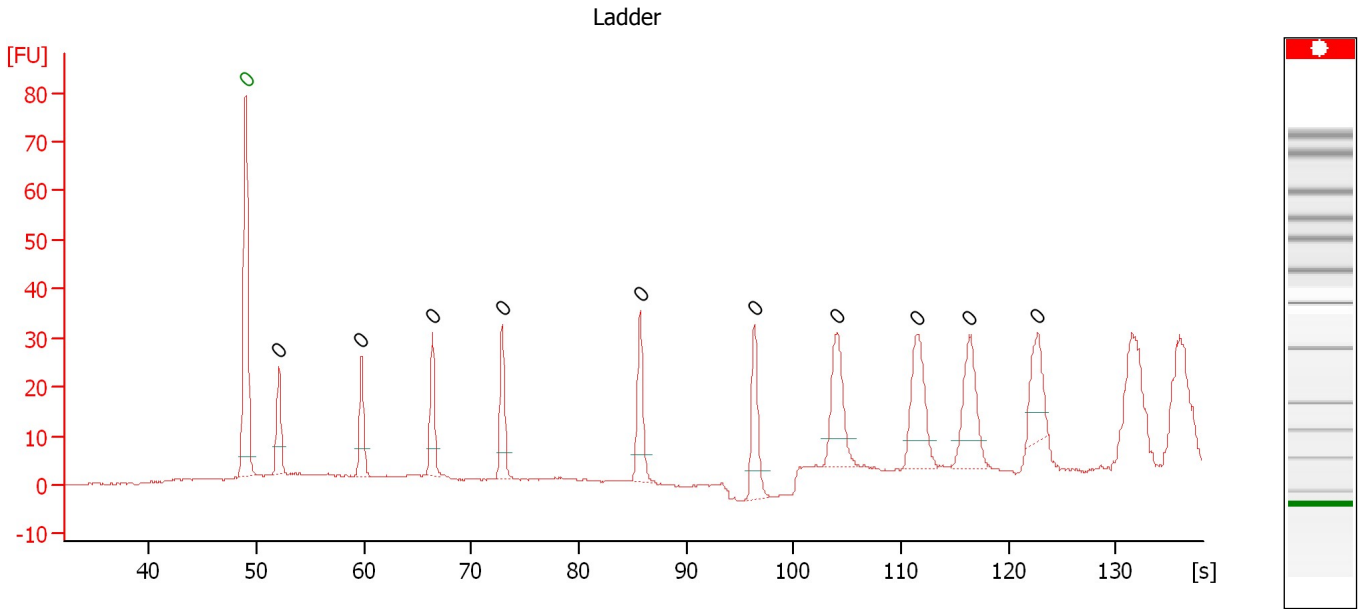
**Ladder**

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\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

**Peak table for Ladder**

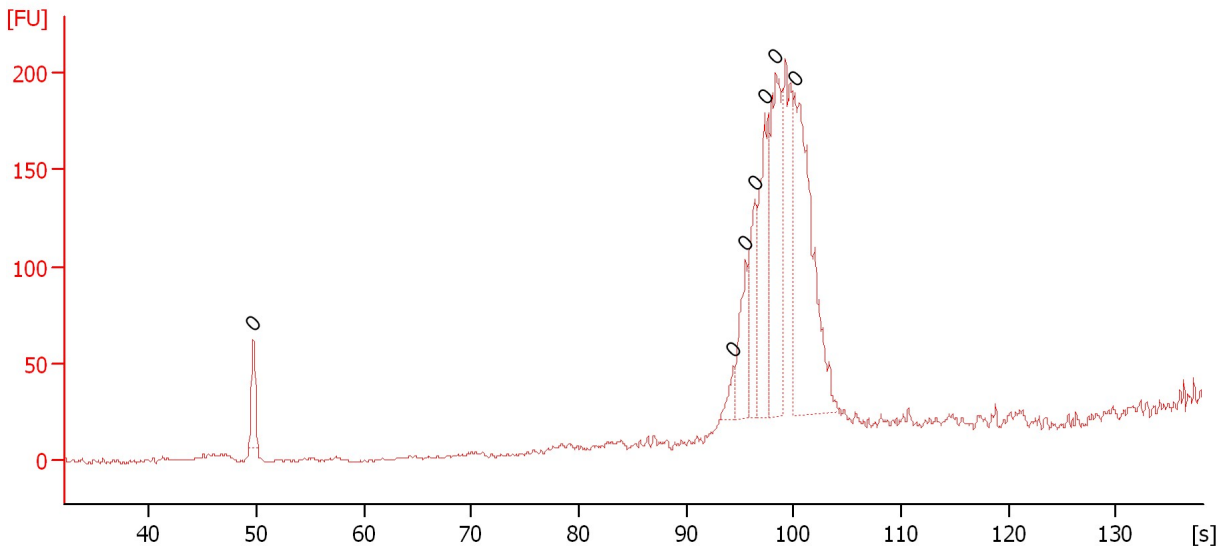
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	Ladder Peak
3	0	0.00	0.0	Ladder Peak
4	0	0.00	0.0	Ladder Peak
5	0	0.00	0.0	Ladder Peak
6	0	0.00	0.0	Ladder Peak
7	0	0.00	0.0	Ladder Peak
8	0	0.00	0.0	Ladder Peak
9	0	0.00	0.0	Ladder Peak
10	0	0.00	0.0	Ladder Peak
11	0	0.00	0.0	Ladder Peak

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**

nt2 wgs 1 50



**Overall Results for sample 1 : nt2 wgs 1 50**

Number of peaks found: 0                      Noise: 0.9

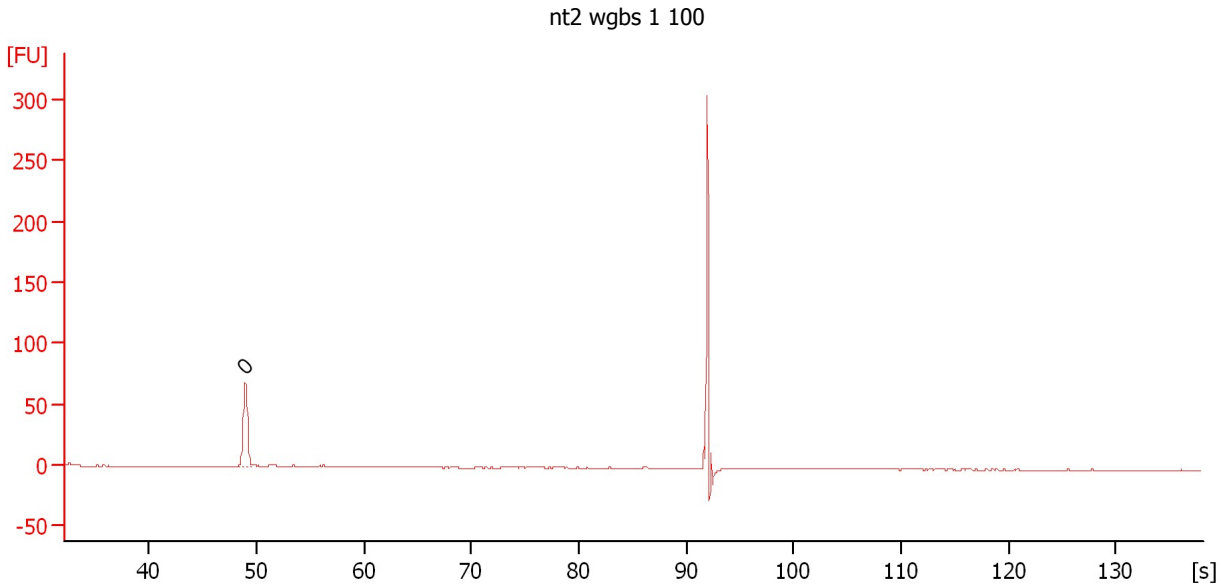
**Peak table for sample 1 : nt2 wgs 1 50**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : nt2 wgbs 1 100**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 2 : nt2 wgbs 1 100**

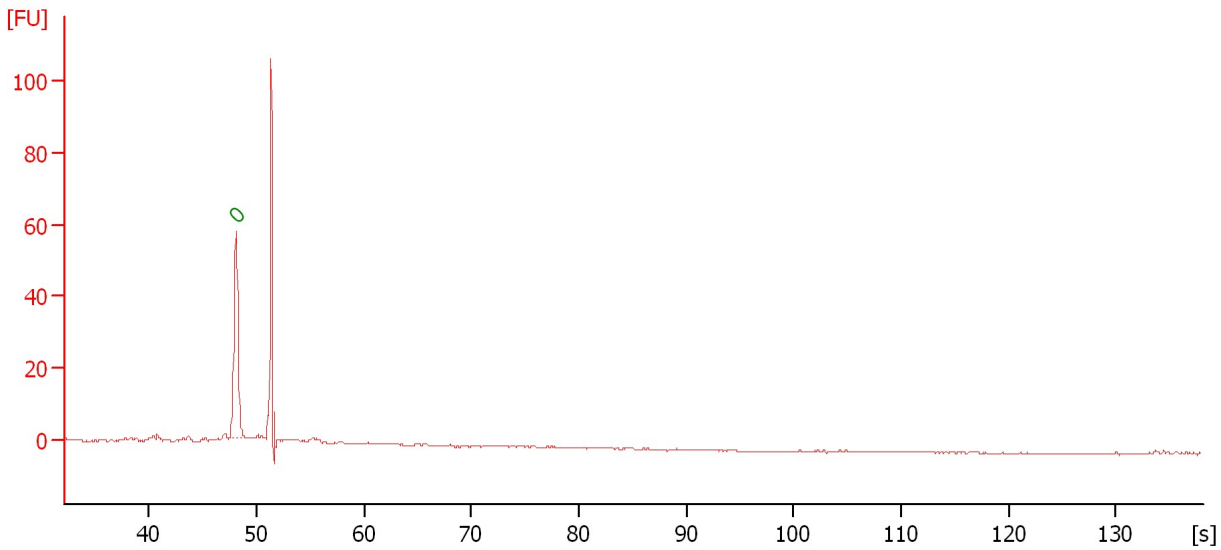
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**

nt2 wgs 2 50



**Overall Results for sample 3 : nt2 wgs 2 50**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 3 : nt2 wgs 2 50**

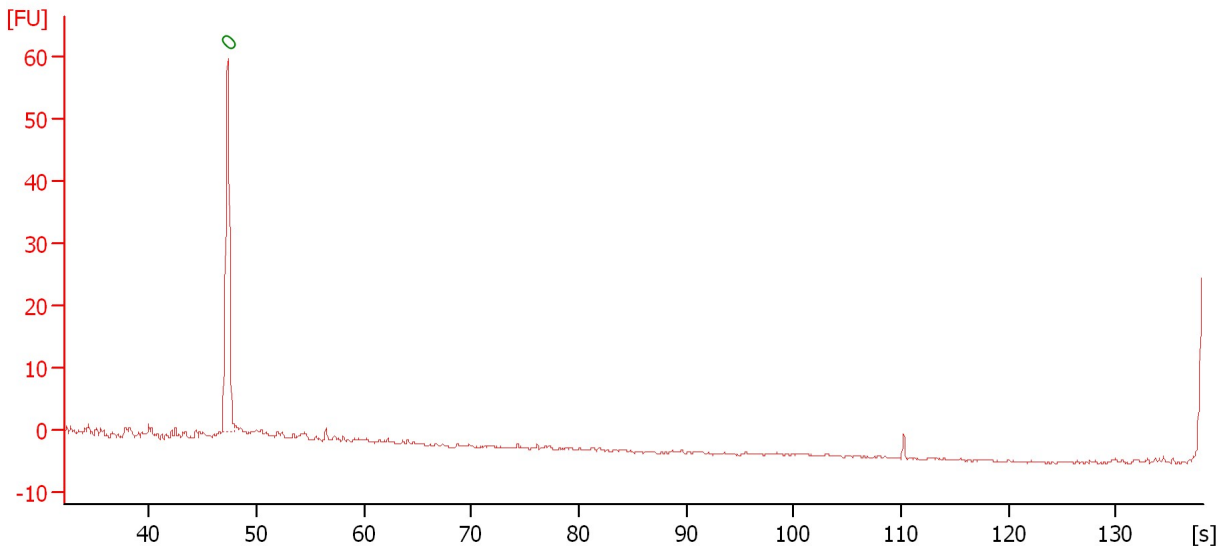
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**

nt2 wgbs 2 100



**Overall Results for sample 4 : nt2 wgbs 2 100**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 4 : nt2 wgbs 2 100**

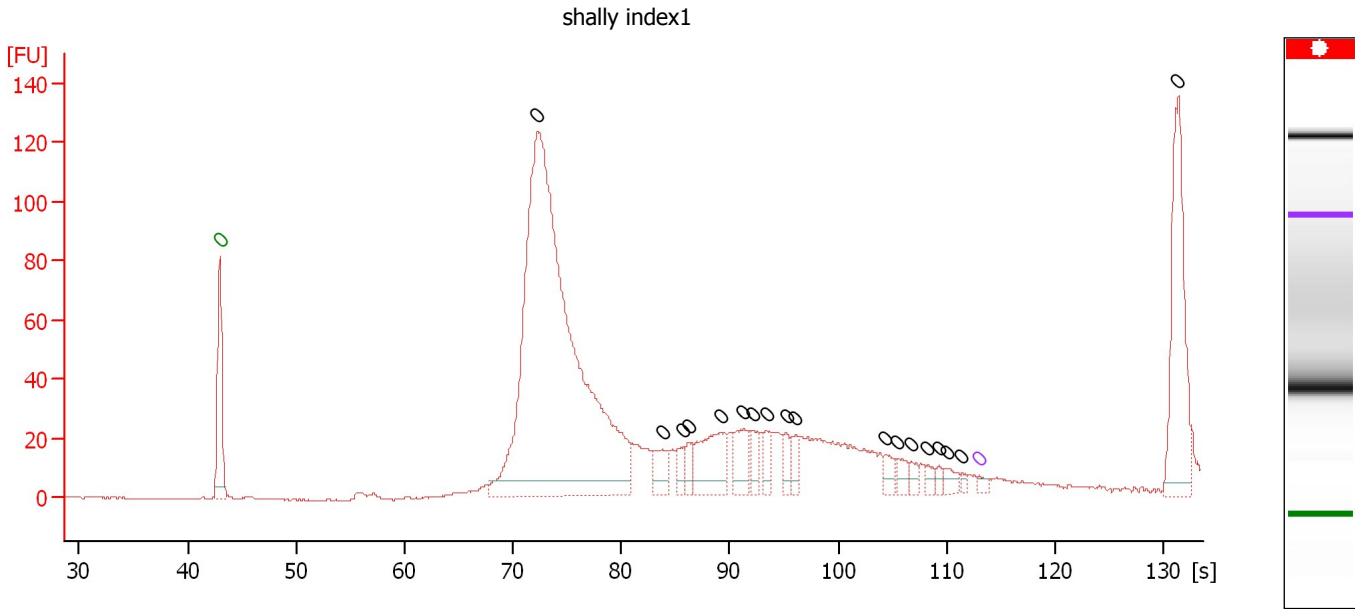
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : shally index1**

Number of peaks found: 18      Noise: 0.2

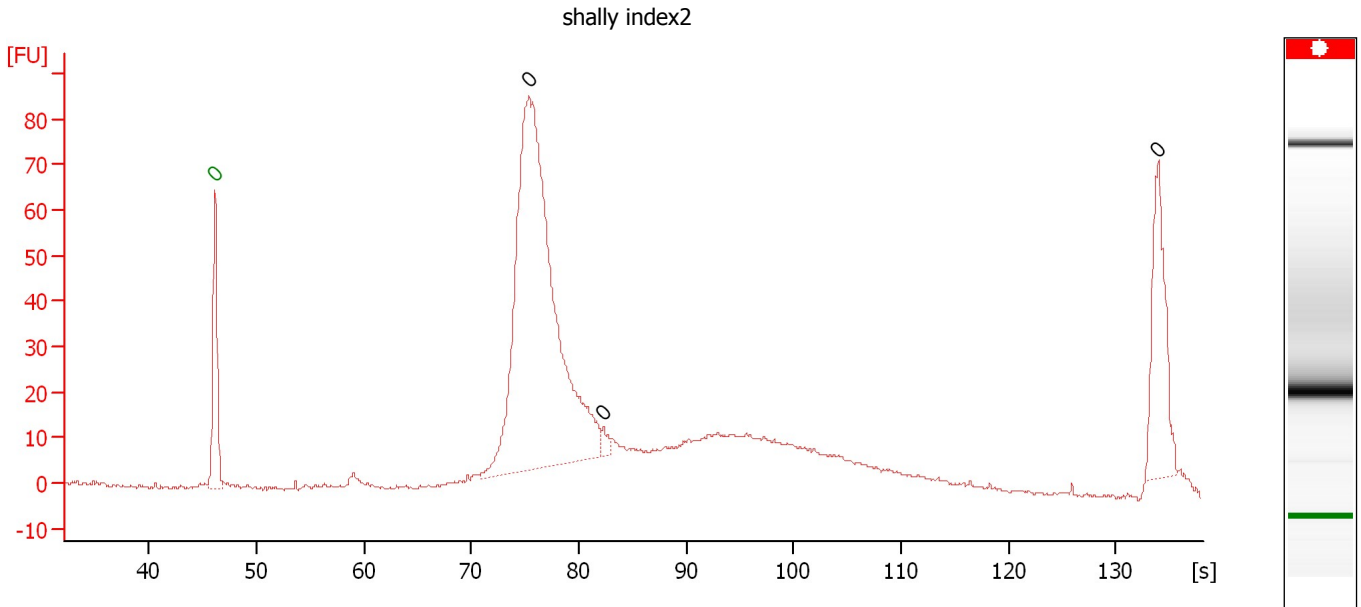
**Peak table for sample 5 : shally index1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	Upper Marker
20	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : shally index2**

Number of peaks found: 3                      Noise: 0.4

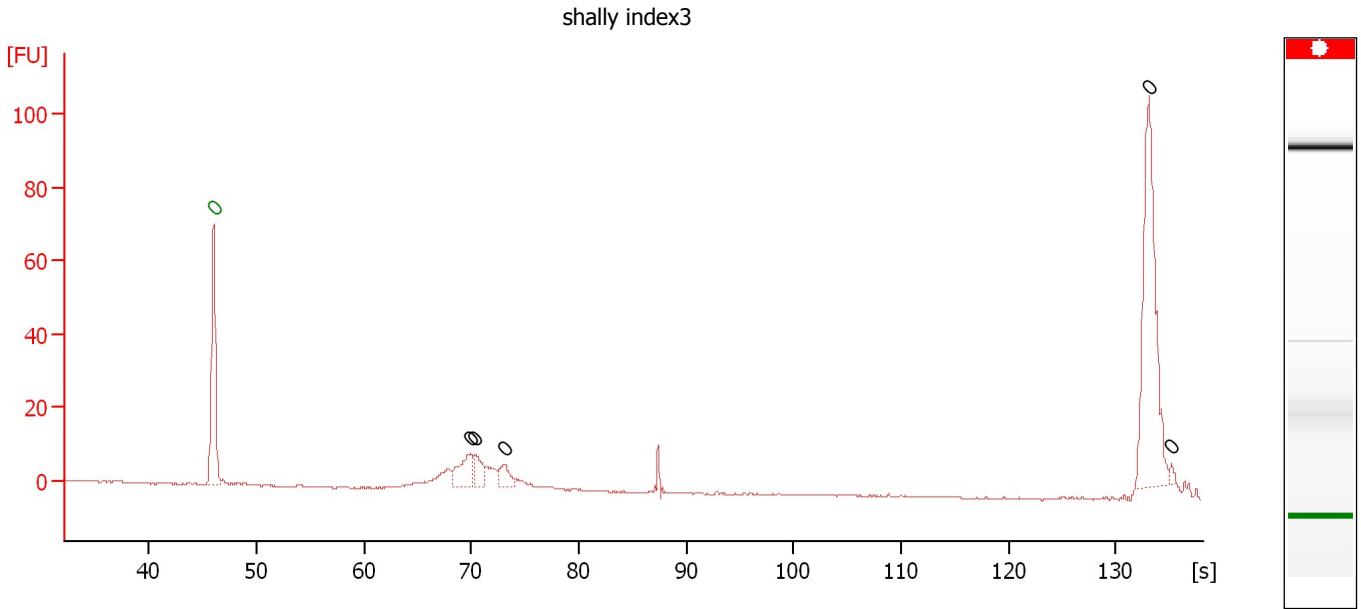
**Peak table for sample 6 : shally index2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : shally index3**

Number of peaks found: 5                      Noise: 0.2

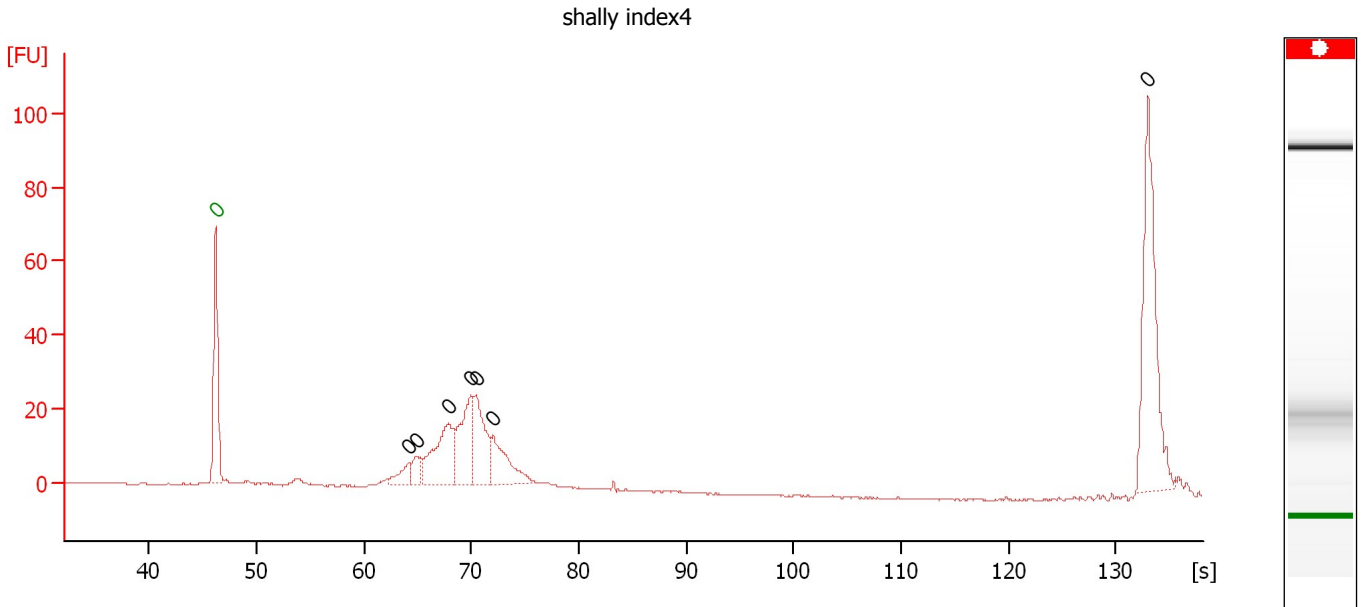
**Peak table for sample 7 : shally index3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : shally index4**

Number of peaks found: 7                      Noise: 0.2

**Peak table for sample 8 : shally index4**

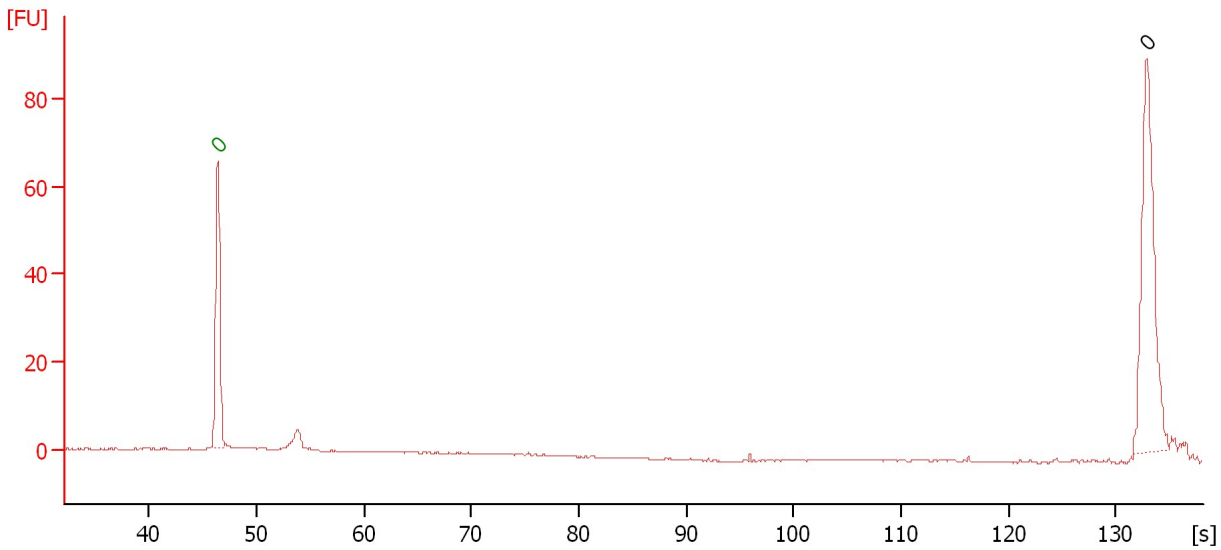
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**

shally index5



**Overall Results for sample 9 : shally index5**

Number of peaks found: 1                      Noise: 0.2

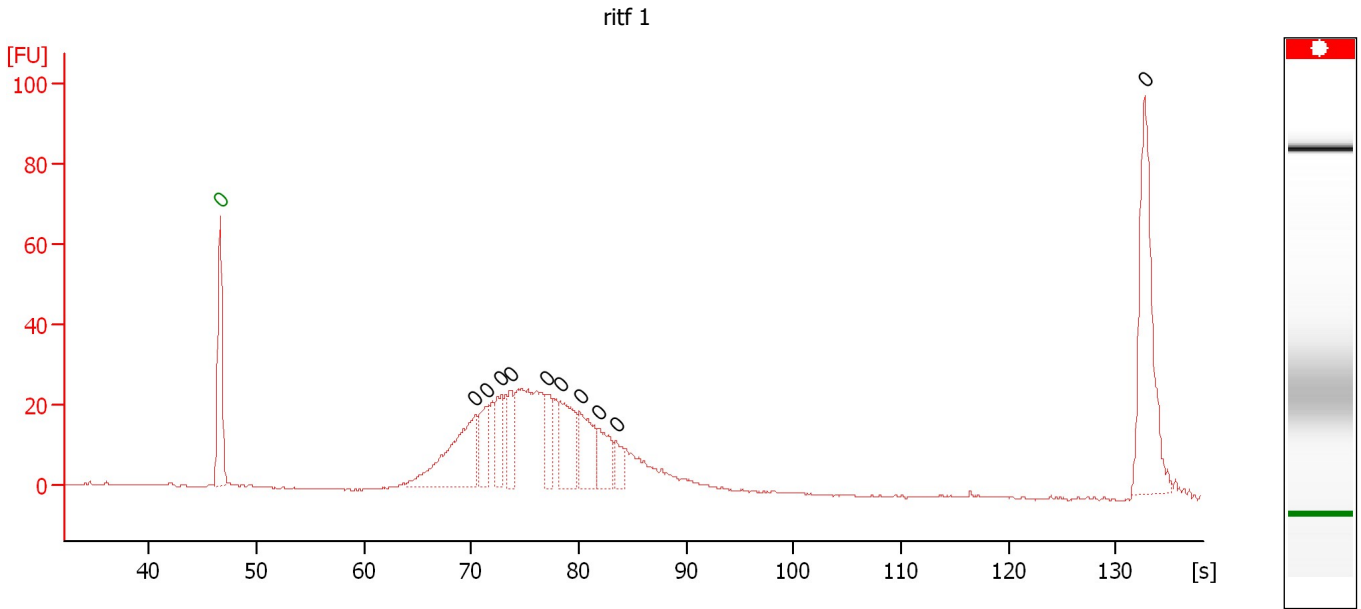
**Peak table for sample 9 : shally index5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : ritf 1**

Number of peaks found: 10      Noise: 0.2

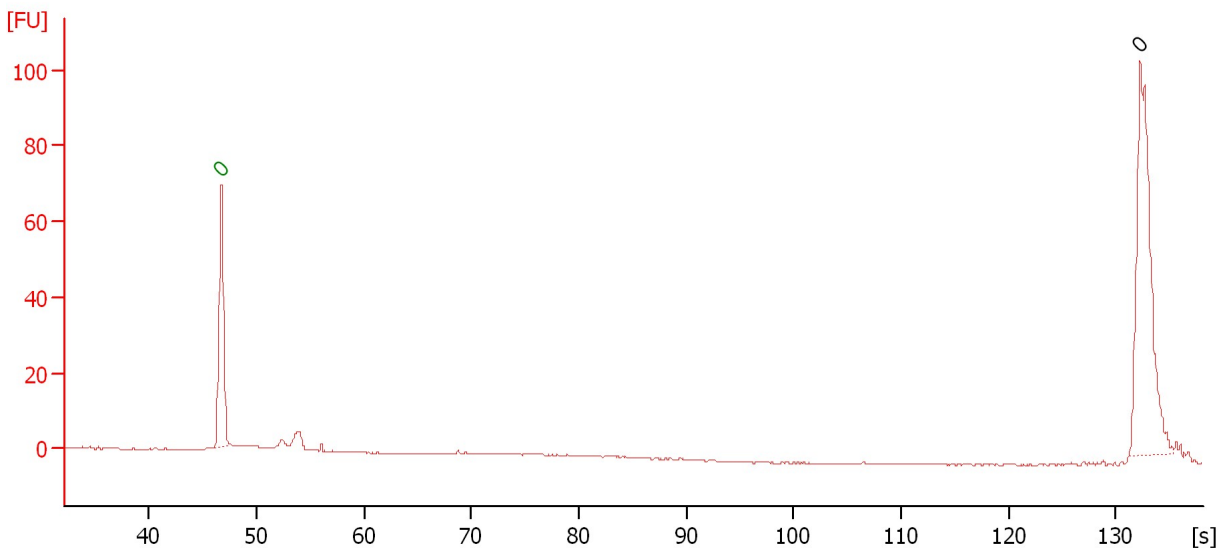
**Peak table for sample 10 : ritf 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 :**

Number of peaks found: 1                      Noise: 0.2

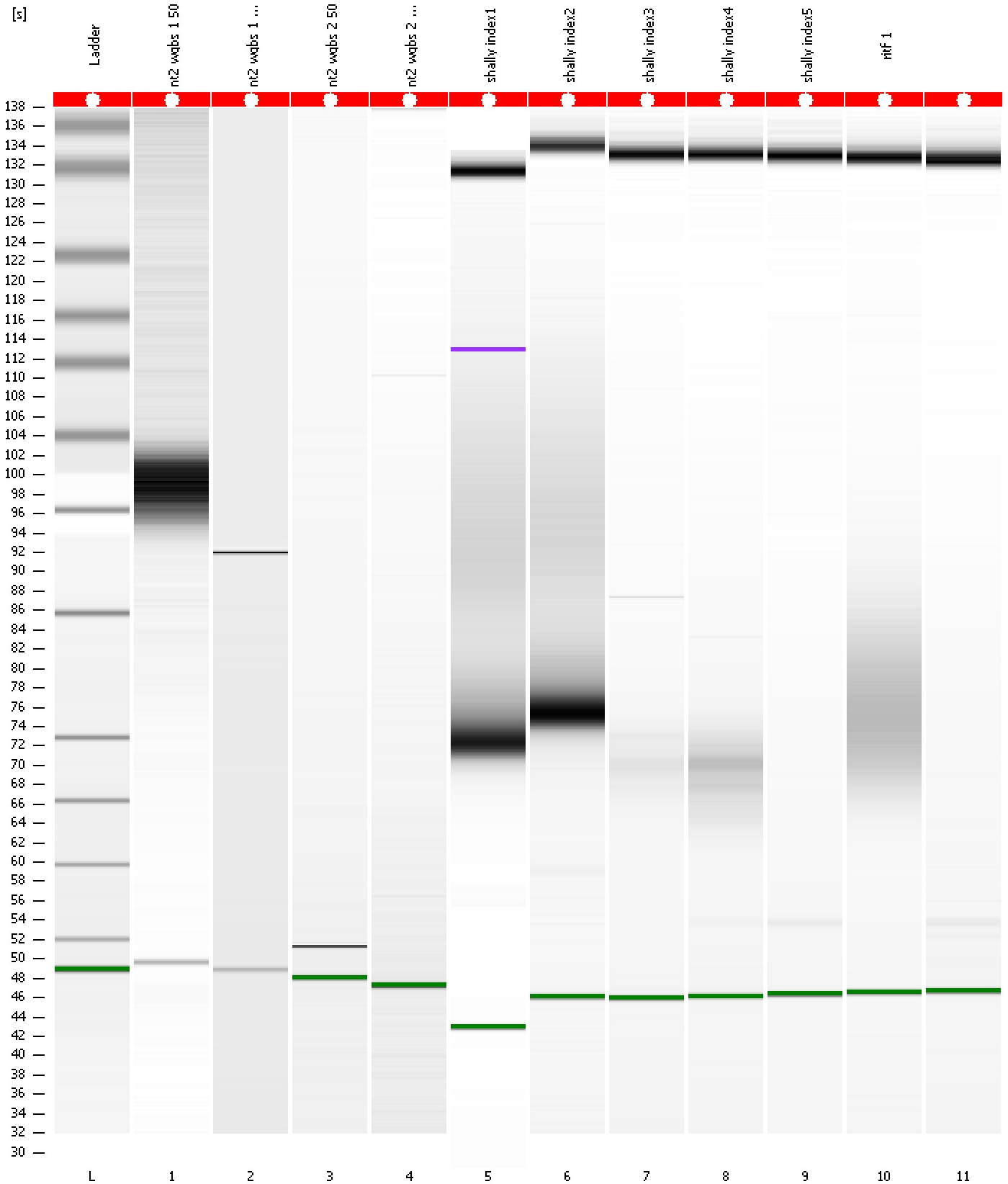
**Peak table for sample 11 :**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
Modified: 5/23/2013 12:08:59 PM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-23\2013-05-23\_001.xad

Created: 5/23/2013 11:27:36 AM  
 Modified: 5/23/2013 12:08:59 PM

**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		5/23/2013 12:08:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-23\2013-05-23_001.xad)		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/23/2013 11:27:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1