

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_002.xad

Created: 2/6/2015 10:04:24 AM  
Modified: 2/6/2015 10:44:55 AM

### Electrophoresis File Run Summary

#### Instrument Information:

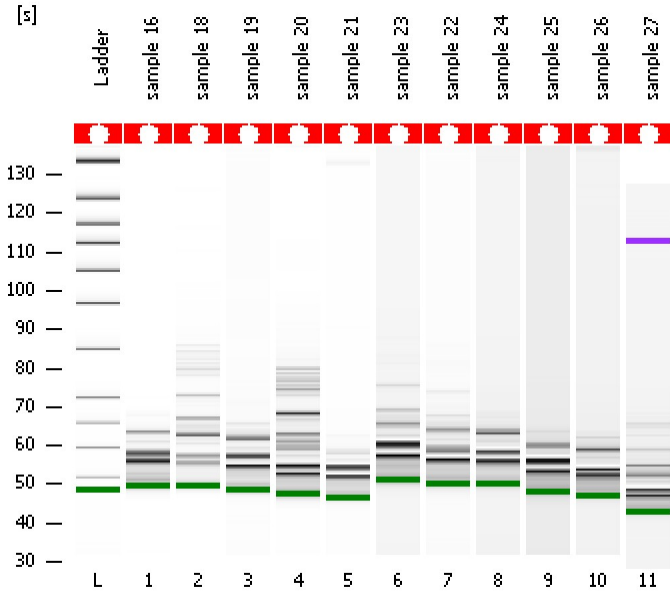
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:

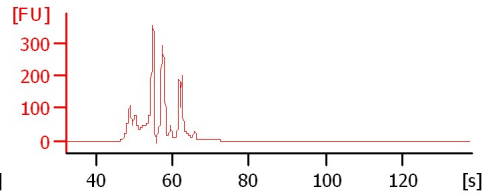
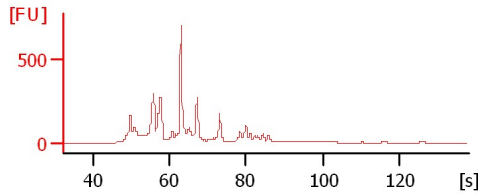
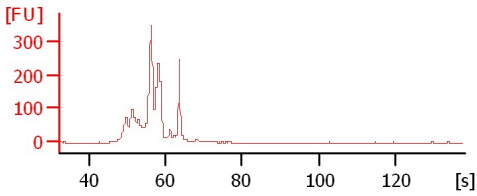
Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:



sample 16

sample 18

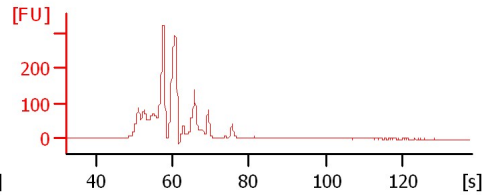
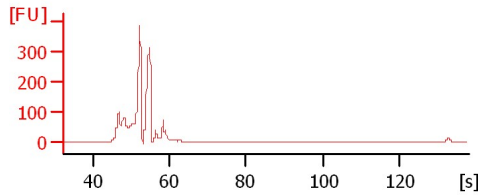
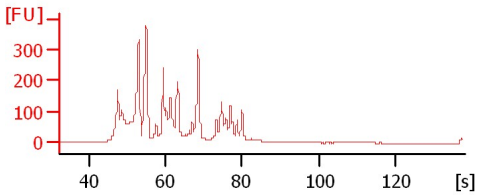
sample 19



sample 20

sample 21

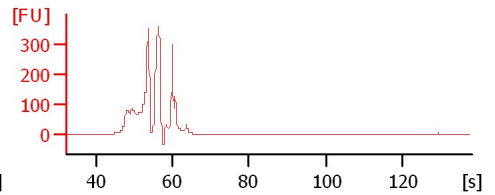
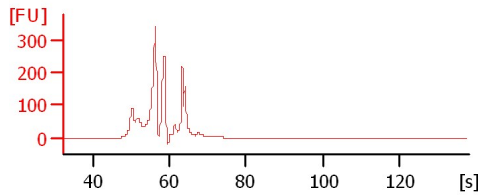
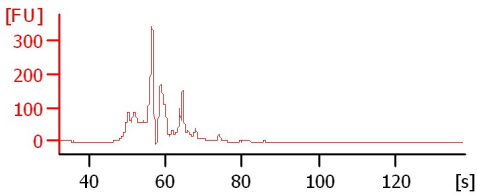
sample 23



sample 22

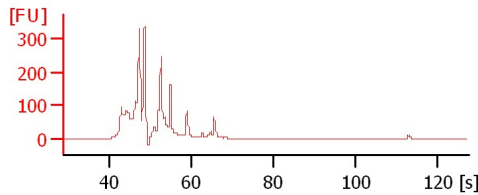
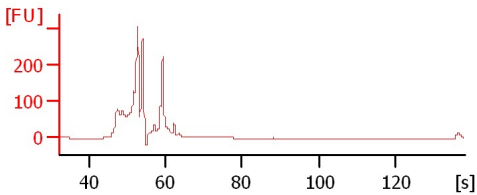
sample 24

sample 25



sample 26

sample 27



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 16		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 21		<input type="checkbox"/>	✓			
sample 23		<input type="checkbox"/>	✓			
sample 22		<input type="checkbox"/>	✓			
sample 24		<input type="checkbox"/>	✓			
sample 25		<input type="checkbox"/>	✓			
sample 26		<input type="checkbox"/>	✓			
sample 27		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

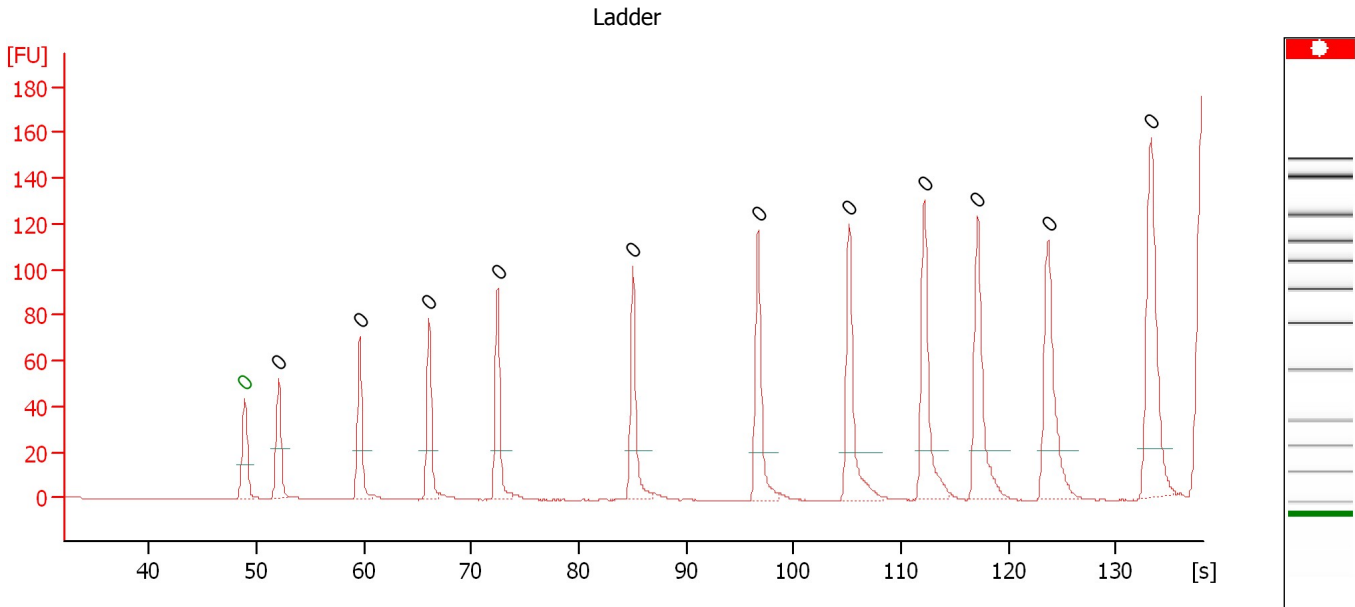
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

**Peak table for Ladder**

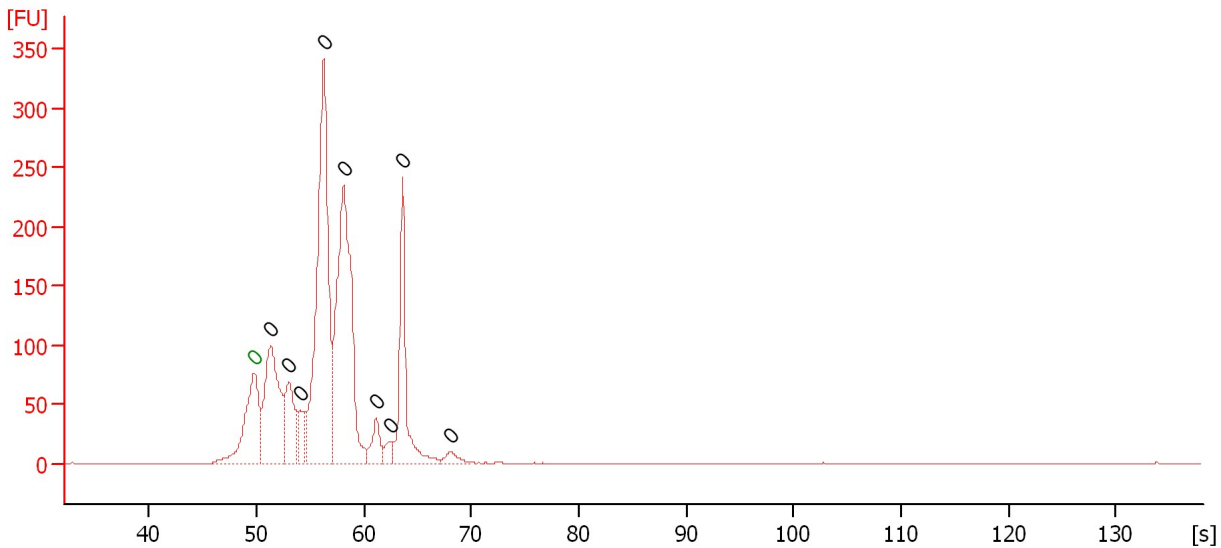
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.90
2	0	0.00	0.0	Ladder Peak	52.05
3	0	0.00	0.0	Ladder Peak	59.60
4	0	0.00	0.0	Ladder Peak	66.05
5	0	0.00	0.0	Ladder Peak	72.45
6	0	0.00	0.0	Ladder Peak	85.05
7	0	0.00	0.0	Ladder Peak	96.70
8	0	0.00	0.0	Ladder Peak	105.15
9	0	0.00	0.0	Ladder Peak	112.15
10	0	0.00	0.0	Ladder Peak	117.15
11	0	0.00	0.0	Ladder Peak	123.70
12	0	0.00	0.0	Ladder Peak	133.30

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**Electropherogram Summary Continued ...**

sample 16



**Overall Results for sample 1 : sample 16**

Number of peaks found: 9                      Noise: 0.2

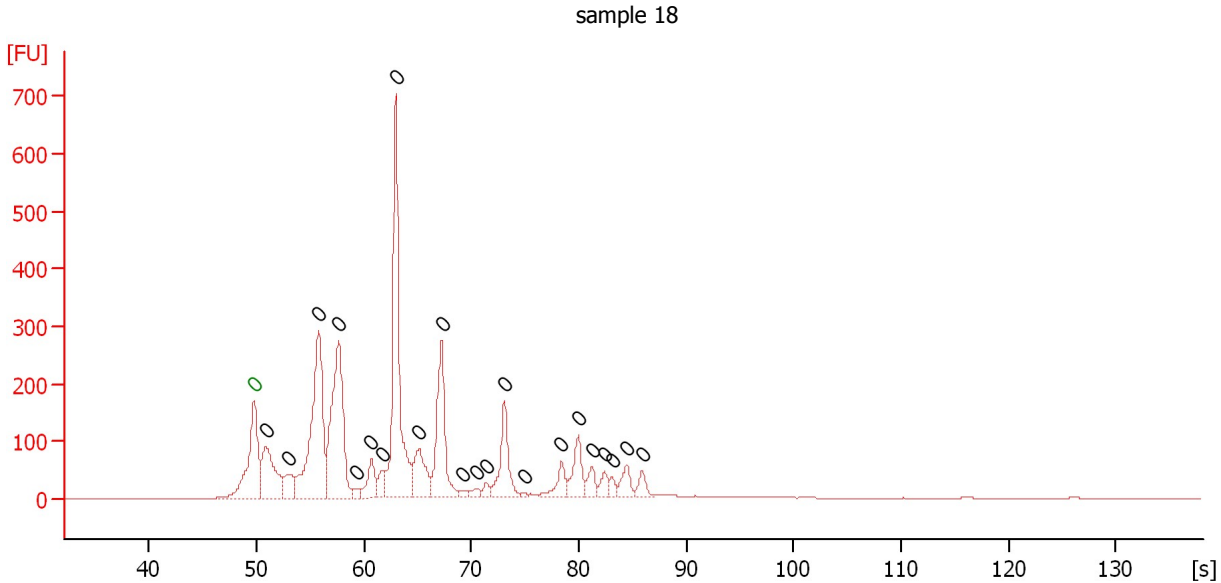
**Peak table for sample 1 : sample 16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.80
2	0	0.00	0.0		51.30
3	0	0.00	0.0		53.00
4	0	0.00	0.0		54.00
5	0	0.00	0.0		56.25
6	0	0.00	0.0		58.10
7	0	0.00	0.0		61.15
8	0	0.00	0.0		62.40
9	0	0.00	0.0		63.60
10	0	0.00	0.0		68.05

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 18**

Number of peaks found: 22                      Noise: 0.2

**Peak table for sample 2 : sample 18**

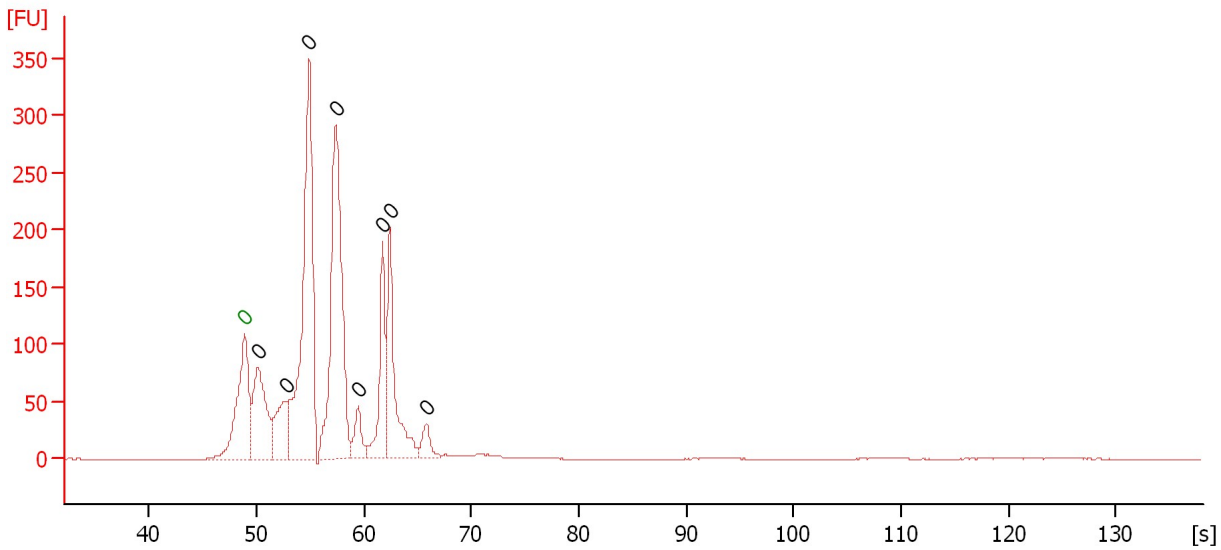
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.75
2	0	0.00	0.0		50.85
3	0	0.00	0.0		52.95
4	0	0.00	0.0		55.80
5	0	0.00	0.0		57.65
6	0	0.00	0.0		59.30
7	0	0.00	0.0		60.70
8	0	0.00	0.0		61.65
9	0	0.00	0.0		62.95
10	0	0.00	0.0		65.10
11	0	0.00	0.0		67.25
12	0	0.00	0.0		69.25
13	0	0.00	0.0		70.50
14	0	0.00	0.0		71.40
15	0	0.00	0.0		73.05
16	0	0.00	0.0		75.05
17	0	0.00	0.0		78.40
18	0	0.00	0.0		79.95
19	0	0.00	0.0		81.25
20	0	0.00	0.0		82.40
21	0	0.00	0.0		83.10
22	0	0.00	0.0		84.45
23	0	0.00	0.0		85.90

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**Electropherogram Summary Continued ...**

sample 19



**Overall Results for sample 3 : sample 19**

Number of peaks found: 8                      Noise: 0.2

**Peak table for sample 3 : sample 19**

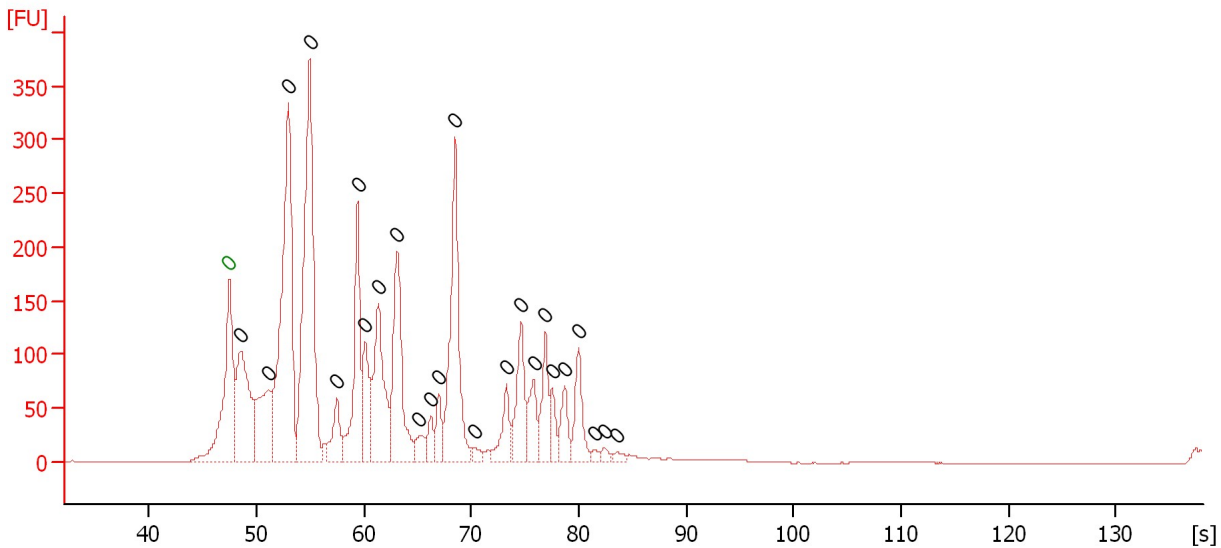
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.90
2	0	0.00	0.0		50.10
3	0	0.00	0.0		52.70
4	0	0.00	0.0		54.90
5	0	0.00	0.0		57.35
6	0	0.00	0.0		59.45
7	0	0.00	0.0		61.70
8	0	0.00	0.0		62.40
9	0	0.00	0.0		65.85

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**Electropherogram Summary Continued ...**

sample 20



**Overall Results for sample 4 : sample 20**

Number of peaks found: 24                      Noise: 0.3

**Peak table for sample 4 : sample 20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.45
2	0	0.00	0.0		48.50
3	0	0.00	0.0		51.10
4	0	0.00	0.0		52.95
5	0	0.00	0.0		54.95
6	0	0.00	0.0		57.45
7	0	0.00	0.0		59.40
8	0	0.00	0.0		60.10
9	0	0.00	0.0		61.35
10	0	0.00	0.0		63.05
11	0	0.00	0.0		65.15
12	0	0.00	0.0		66.25
13	0	0.00	0.0		66.95
14	0	0.00	0.0		68.45
15	0	0.00	0.0		70.25
16	0	0.00	0.0		73.25
17	0	0.00	0.0		74.60
18	0	0.00	0.0		75.80
19	0	0.00	0.0		76.90
20	0	0.00	0.0		77.50
21	0	0.00	0.0		78.70
22	0	0.00	0.0		79.95
23	0	0.00	0.0		81.55
24	0	0.00	0.0		82.40
25	0	0.00	0.0		83.60

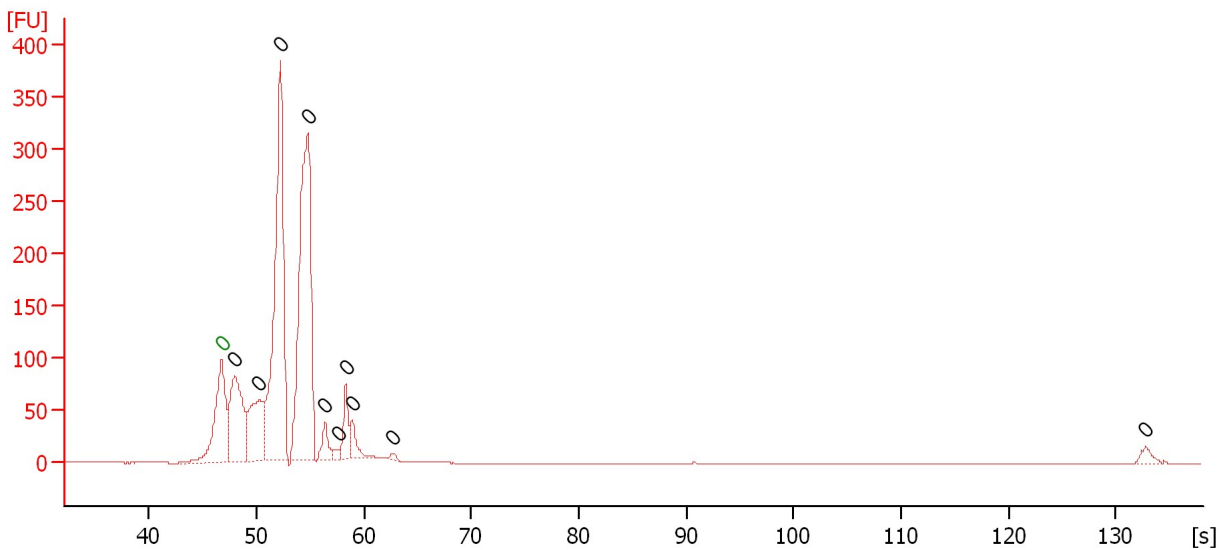


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**Electropherogram Summary Continued ...**

sample 21



**Overall Results for sample 5 : sample 21**

Number of peaks found: 10                      Noise: 0.1

**Peak table for sample 5 : sample 21**

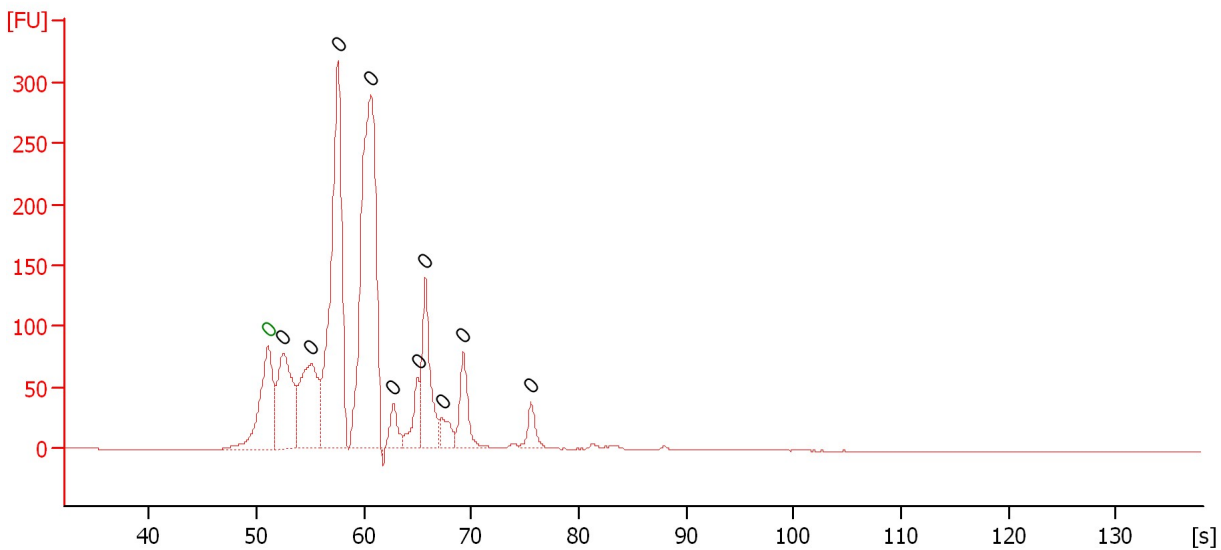
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	46.75
2	0	0.00	0.0		47.95
3	0	0.00	0.0		50.25
4	0	0.00	0.0		52.20
5	0	0.00	0.0		54.75
6	0	0.00	0.0		56.40
7	0	0.00	0.0		57.65
8	0	0.00	0.0		58.30
9	0	0.00	0.0		58.90
10	0	0.00	0.0		62.75
11	0	0.00	0.0		132.80

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_002.xad

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**Electropherogram Summary Continued ...**

sample 23



**Overall Results for sample 6 : sample 23**

Number of peaks found: 10                      Noise: 0.1

**Peak table for sample 6 : sample 23**

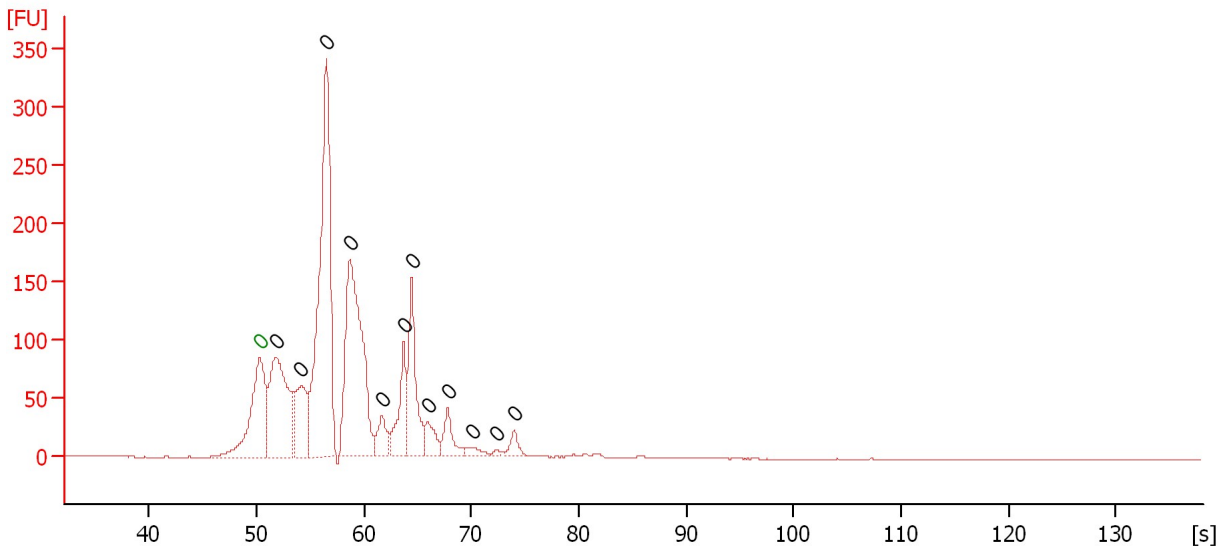
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.05
2	0	0.00	0.0		52.50
3	0	0.00	0.0		55.05
4	0	0.00	0.0		57.60
5	0	0.00	0.0		60.65
6	0	0.00	0.0		62.75
7	0	0.00	0.0		65.00
8	0	0.00	0.0		65.70
9	0	0.00	0.0		67.30
10	0	0.00	0.0		69.25
11	0	0.00	0.0		75.55

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**Electropherogram Summary Continued ...**

sample 22



**Overall Results for sample 7 : sample 22**

Number of peaks found: 12                      Noise: 0.1

**Peak table for sample 7 : sample 22**

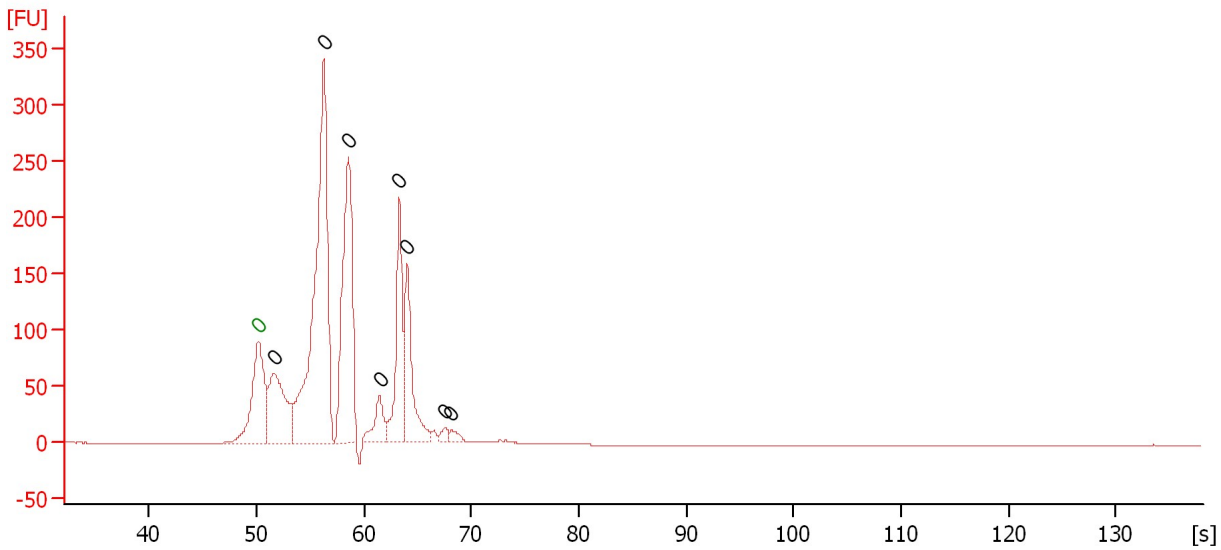
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.30
2	0	0.00	0.0		51.80
3	0	0.00	0.0		54.15
4	0	0.00	0.0		56.50
5	0	0.00	0.0		58.70
6	0	0.00	0.0		61.70
7	0	0.00	0.0		63.70
8	0	0.00	0.0		64.45
9	0	0.00	0.0		65.95
10	0	0.00	0.0		67.80
11	0	0.00	0.0		70.05
12	0	0.00	0.0		72.35
13	0	0.00	0.0		74.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_002.xad

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Electropherogram Summary Continued ...

sample 24



Overall Results for sample 8 : sample 24

Number of peaks found: 8                      Noise: 0.1

Peak table for sample 8 : sample 24

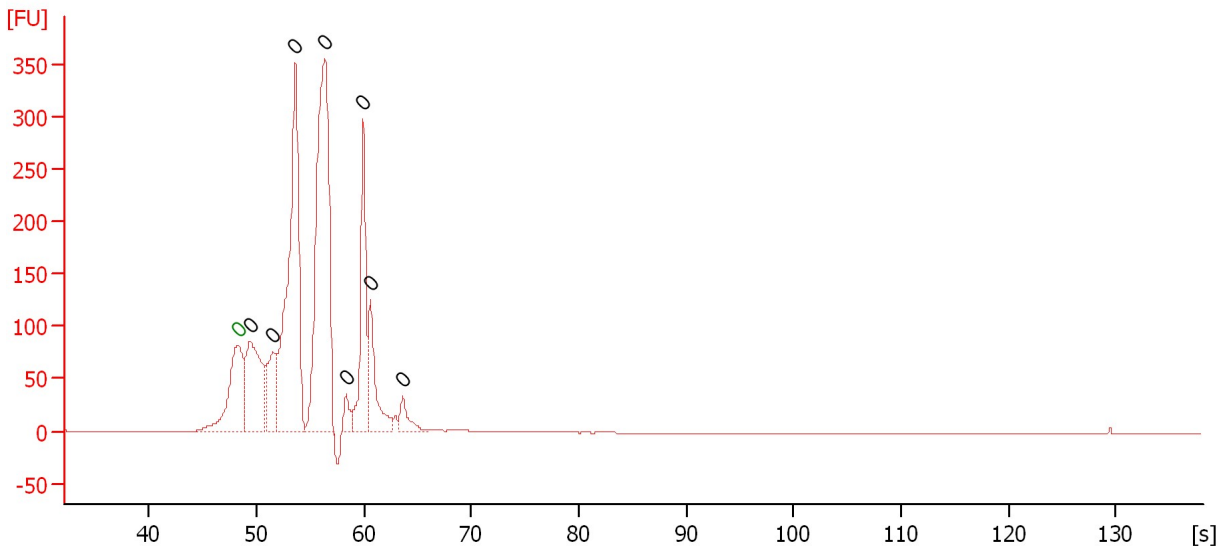
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.15
2	0	0.00	0.0		51.60
3	0	0.00	0.0		56.25
4	0	0.00	0.0		58.55
5	0	0.00	0.0		61.45
6	0	0.00	0.0		63.30
7	0	0.00	0.0		64.00
8	0	0.00	0.0		67.55
9	0	0.00	0.0		68.15

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**Electropherogram Summary Continued ...**

sample 25



**Overall Results for sample 9 : sample 25**

Number of peaks found: 8                      Noise: 0.1

**Peak table for sample 9 : sample 25**

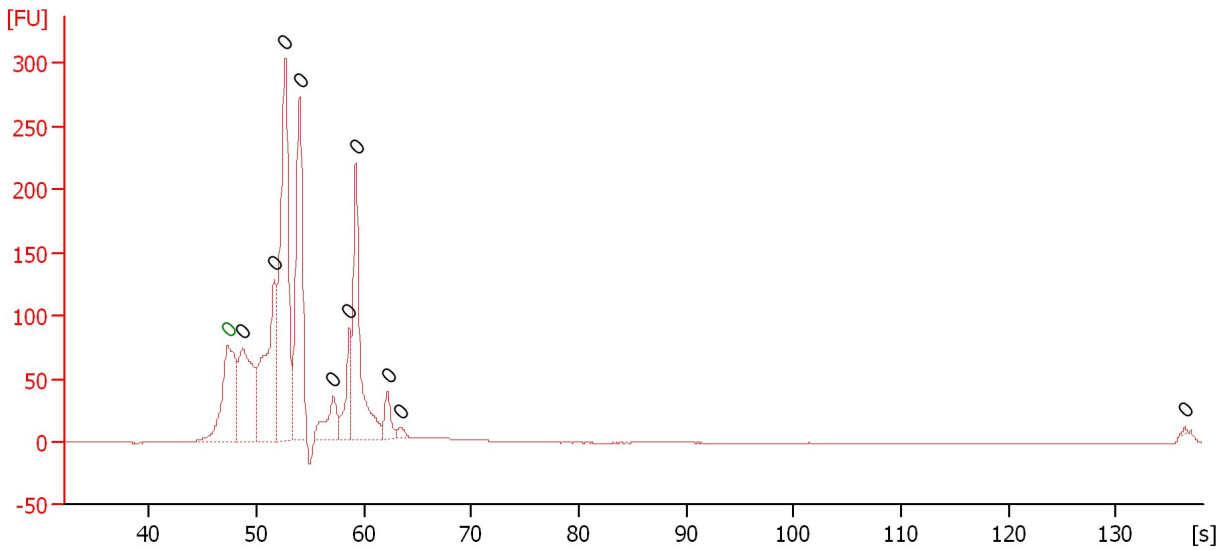
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.30
2	0	0.00	0.0		49.40
3	0	0.00	0.0		51.55
4	0	0.00	0.0		53.60
5	0	0.00	0.0		56.35
6	0	0.00	0.0		58.35
7	0	0.00	0.0		59.95
8	0	0.00	0.0		60.60
9	0	0.00	0.0		63.60

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**

sample 26



**Overall Results for sample 10 : sample 26**

Number of peaks found: 10                      Noise: 0.2

**Peak table for sample 10 : sample 26**

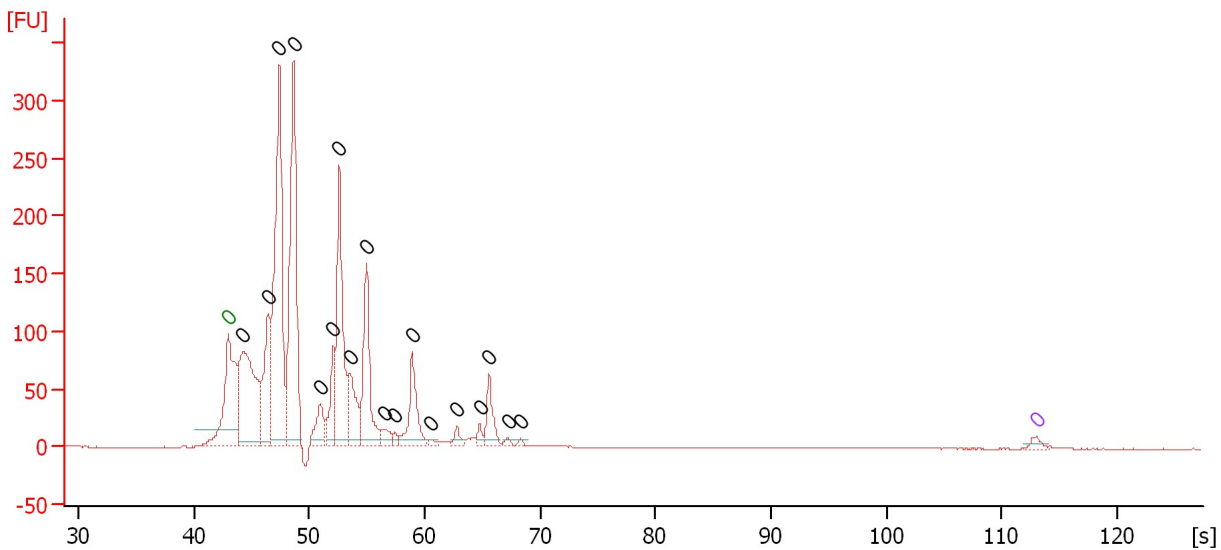
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.30
2	0	0.00	0.0		48.70
3	0	0.00	0.0		51.65
4	0	0.00	0.0		52.65
5	0	0.00	0.0		54.00
6	0	0.00	0.0		57.15
7	0	0.00	0.0		58.65
8	0	0.00	0.0		59.25
9	0	0.00	0.0		62.20
10	0	0.00	0.0		63.45
11	0	0.00	0.0		136.45

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**

sample 27



**Overall Results for sample 11 : sample 27**

Number of peaks found: 18                      Noise: 0.2

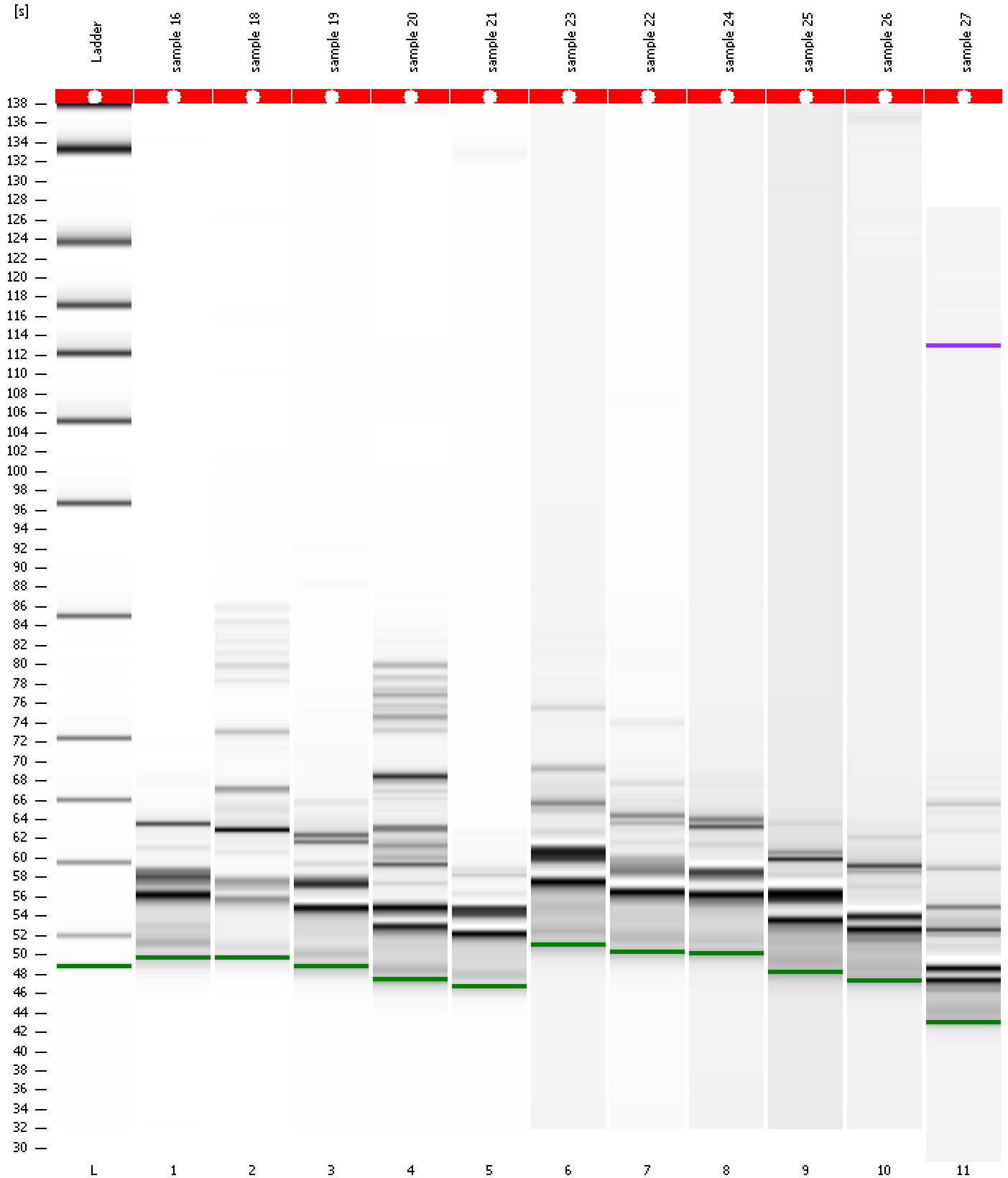
**Peak table for sample 11 : sample 27**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.30
3	0	0.00	0.0		46.49
4	0	0.00	0.0		47.42
5	0	0.00	0.0		48.67
6	0	0.00	0.0		51.00
7	0	0.00	0.0		52.12
8	0	0.00	0.0		52.63
9	0	0.00	0.0		53.56
10	0	0.00	0.0		55.00
11	0	0.00	0.0		56.49
12	0	0.00	0.0		57.47
13	0	0.00	0.0		58.91
14	0	0.00	0.0		60.53
15	0	0.00	0.0		62.81
16	0	0.00	0.0		64.81
17	0	0.00	0.0		65.60
18	0	0.00	0.0		67.23
19	0	0.00	0.0		68.35
20	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_002.xad

Created: 2/6/2015 10:04:24 AM  
Modified: 2/6/2015 10:44:55 AM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_002.xad

Created: 2/6/2015 10:04:24 AM  
 Modified: 2/6/2015 10:44:55 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		2/6/2015 10:44:52 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-06\2015-02-06_002.xad)		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/6/2015 10:04:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1