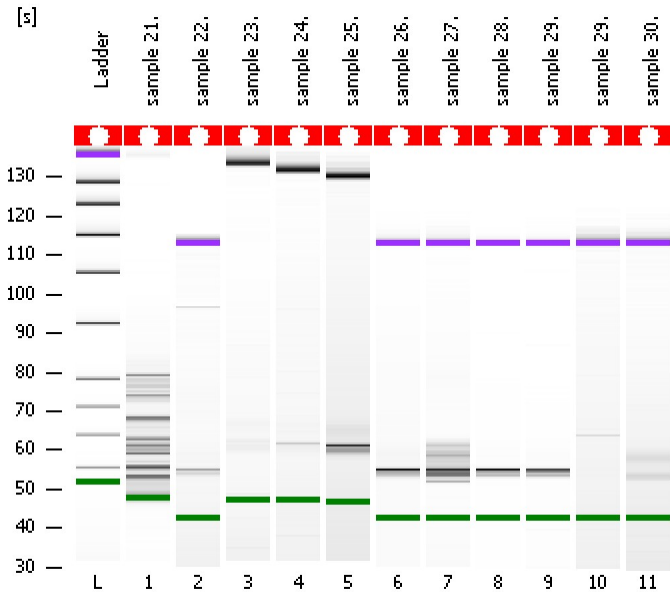


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 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

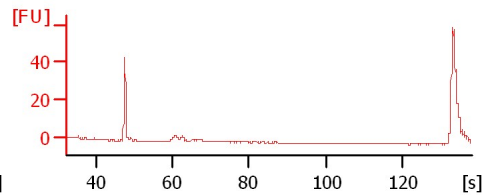
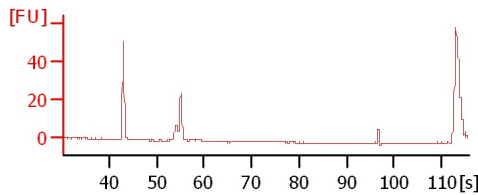
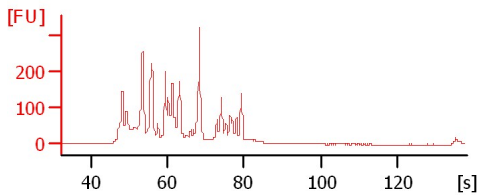
#### Chip Information:

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

sample 21.

sample 22.

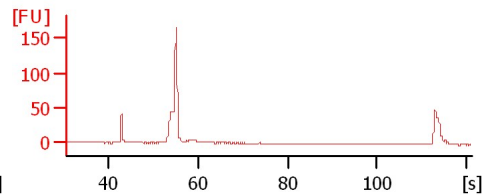
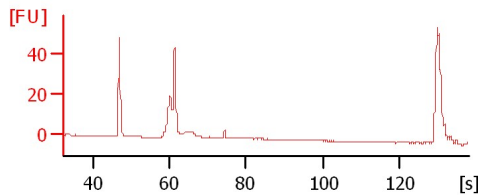
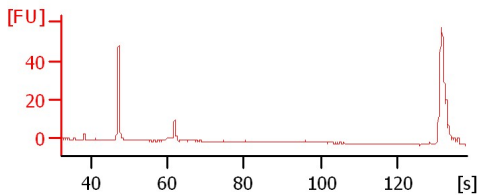
sample 23.



sample 24.

sample 25.

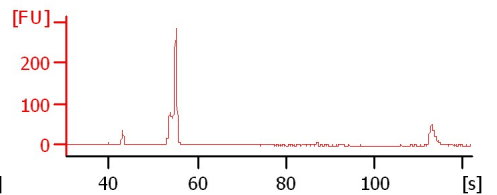
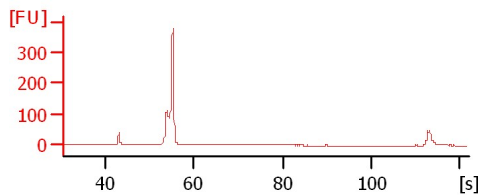
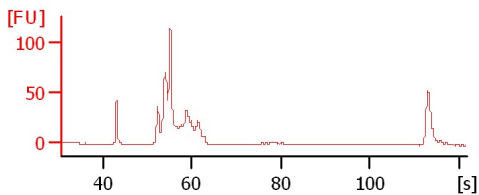
sample 26.



sample 27.

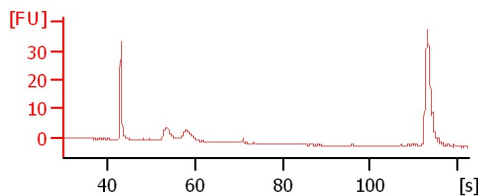
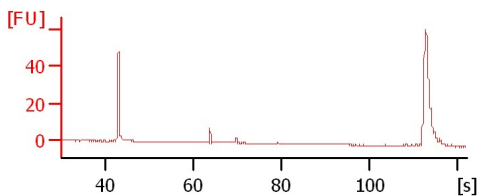
sample 28.

sample 29.



sample 29.

sample 30.



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 21.		<input type="checkbox"/>	✓			
sample 22.		<input type="checkbox"/>	✓			
sample 23.		<input type="checkbox"/>	✓			
sample 24.		<input type="checkbox"/>	✓			
sample 25.		<input type="checkbox"/>	✓			
sample 26.		<input type="checkbox"/>	✓			
sample 27.		<input type="checkbox"/>	✓			
sample 28.		<input type="checkbox"/>	✓			
sample 29.		<input type="checkbox"/>	✓			
sample 29.		<input type="checkbox"/>	✓			
sample 30.		<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\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 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

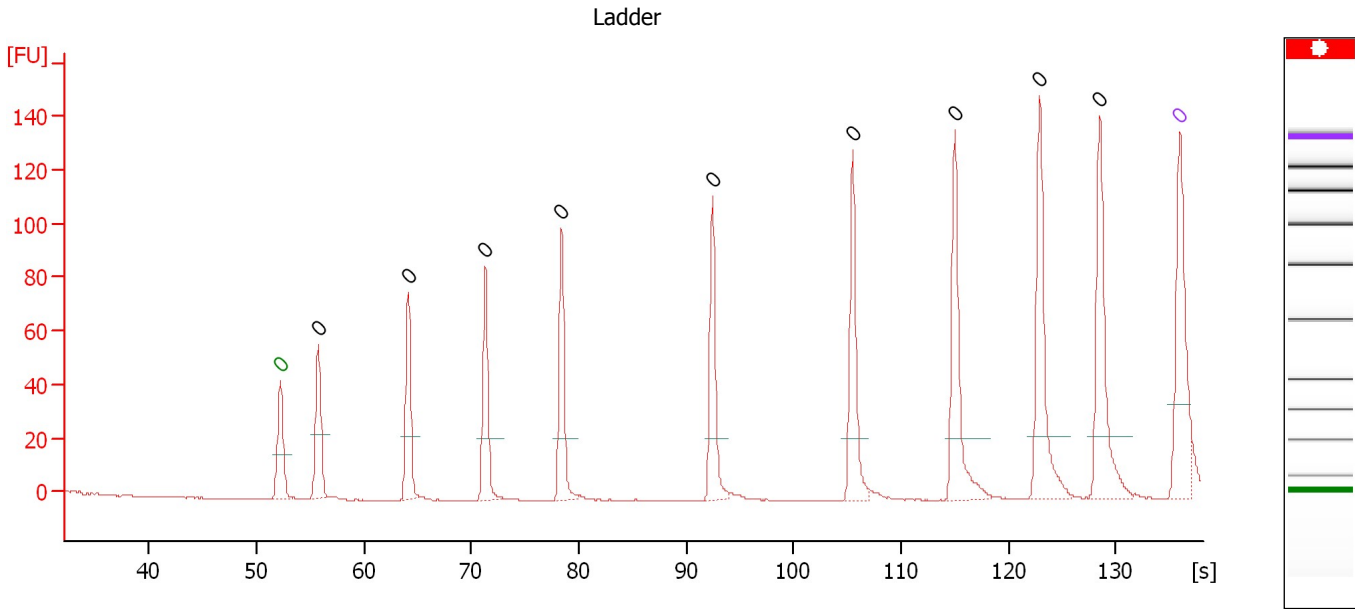
**Ladder**

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\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

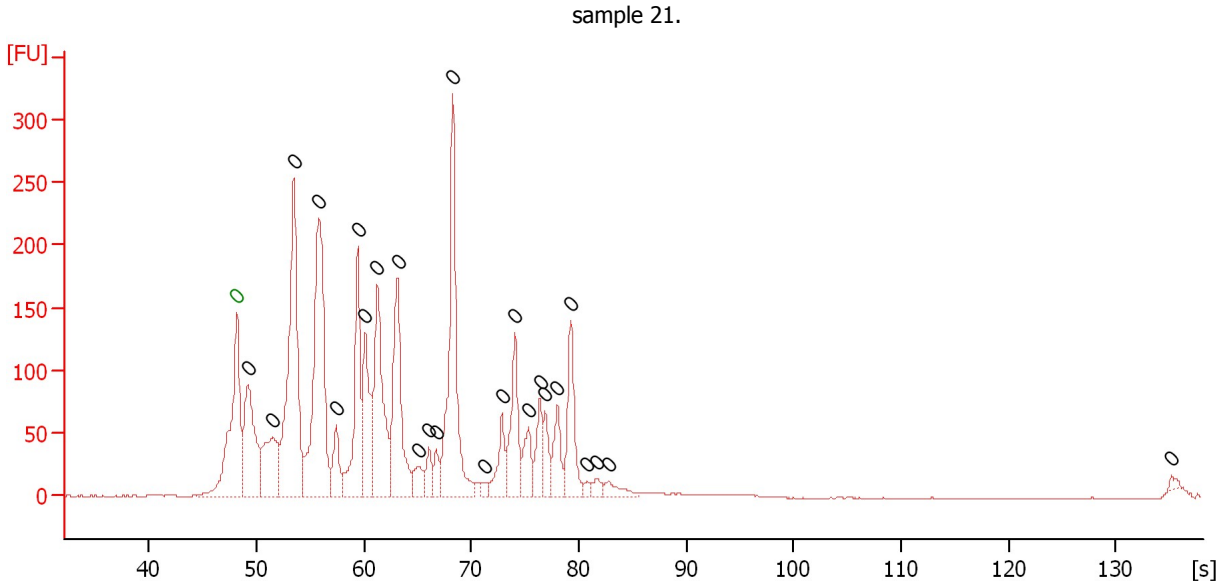
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	52.20
2	0	0.00	0.0	Ladder Peak	55.75
3	0	0.00	0.0	Ladder Peak	64.15
4	0	0.00	0.0	Ladder Peak	71.30
5	0	0.00	0.0	Ladder Peak	78.40
6	0	0.00	0.0	Ladder Peak	92.45
7	0	0.00	0.0	Ladder Peak	105.50
8	0	0.00	0.0	Ladder Peak	115.00
9	0	0.00	0.0	Ladder Peak	122.90
10	0	0.00	0.0	Ladder Peak	128.50
11	0	0.00	0.0	Upper Marker	135.95

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : sample 21.**

End Analysis Time Range [s] : 106.05

**Overall Results for sample 1 : sample 21.**

Number of peaks found: 25                      Noise: 0.3

**Peak table for sample 1 : sample 21.**

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.15
2	0	0.00	0.0		49.20
3	0	0.00	0.0		51.50
4	0	0.00	0.0		53.45
5	0	0.00	0.0		55.80
6	0	0.00	0.0		57.40
7	0	0.00	0.0		59.40
8	0	0.00	0.0		60.10
9	0	0.00	0.0		61.25
10	0	0.00	0.0		63.15
11	0	0.00	0.0		65.00
12	0	0.00	0.0		66.05
13	0	0.00	0.0		66.75
14	0	0.00	0.0		68.25
15	0	0.00	0.0		71.15
16	0	0.00	0.0		72.85
17	0	0.00	0.0		74.05
18	0	0.00	0.0		75.30
19	0	0.00	0.0		76.40
20	0	0.00	0.0		76.85
21	0	0.00	0.0		78.00
22	0	0.00	0.0		79.25
23	0	0.00	0.0		80.75

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

... Peak table for sample 1 : sample 21.

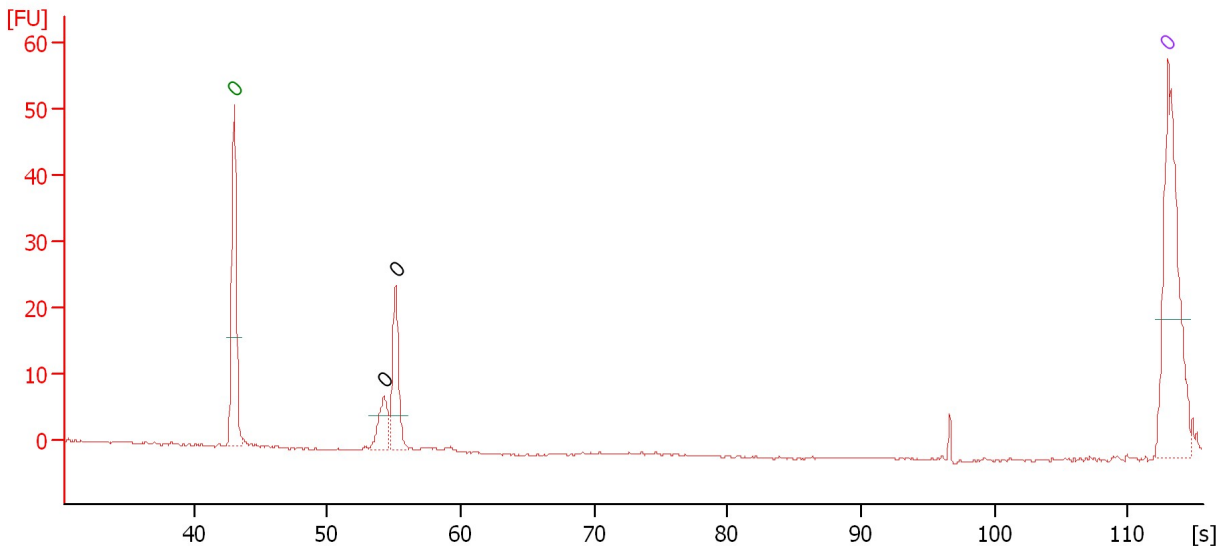
Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
24	0	0.00	0.0		81.65
25	0	0.00	0.0		82.80
26	0	0.00	0.0		135.20

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 22.



**Overall Results for sample 2 : sample 22.**

Number of peaks found: 2                      Noise: 0.2

**Peak table for sample 2 : sample 22.**

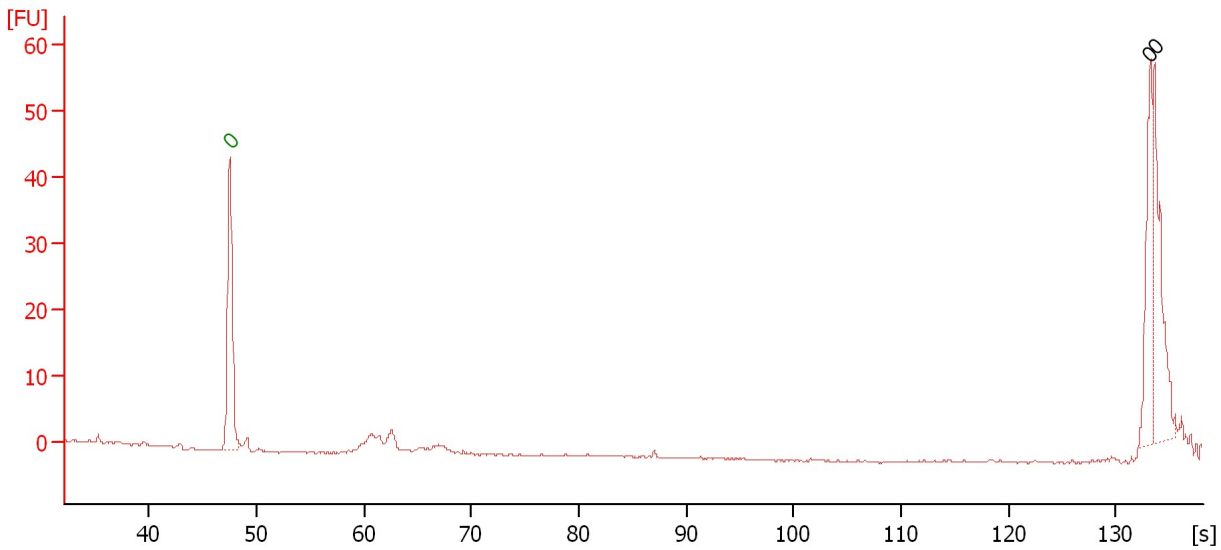
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		54.23
3	0	0.00	0.0		55.12
4	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 23.



**Overall Results for sample 3 : sample 23.**

Number of peaks found: 2                      Noise: 0.1

**Peak table for sample 3 : sample 23.**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.50
2	0	0.00	0.0		133.20
3	0	0.00	0.0		133.60

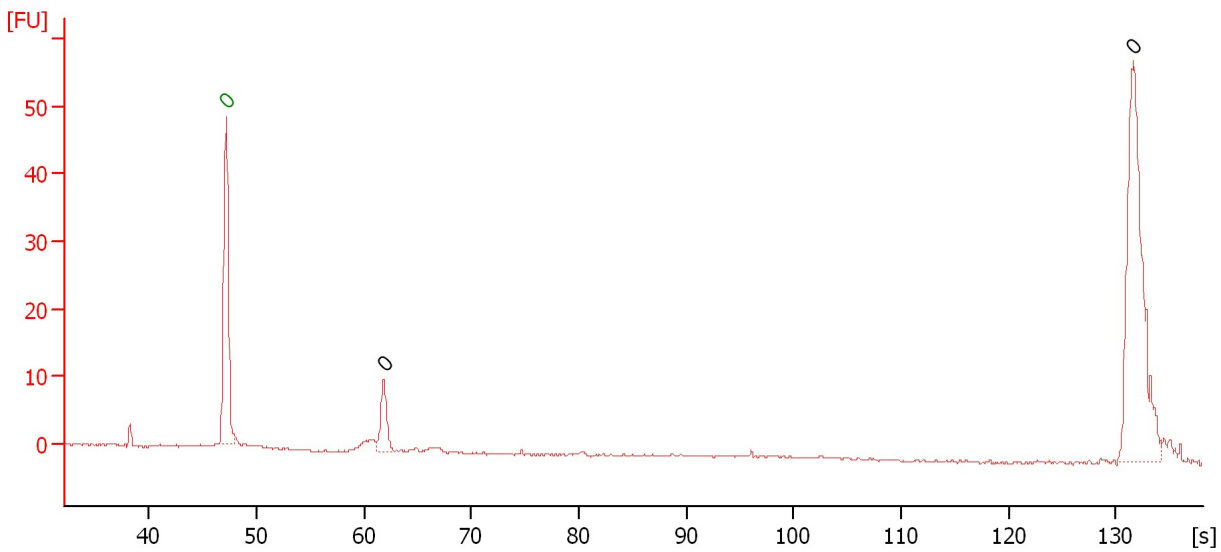


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 24.



**Overall Results for sample 4 : sample 24.**

Number of peaks found: 2                      Noise: 0.2

**Peak table for sample 4 : sample 24.**

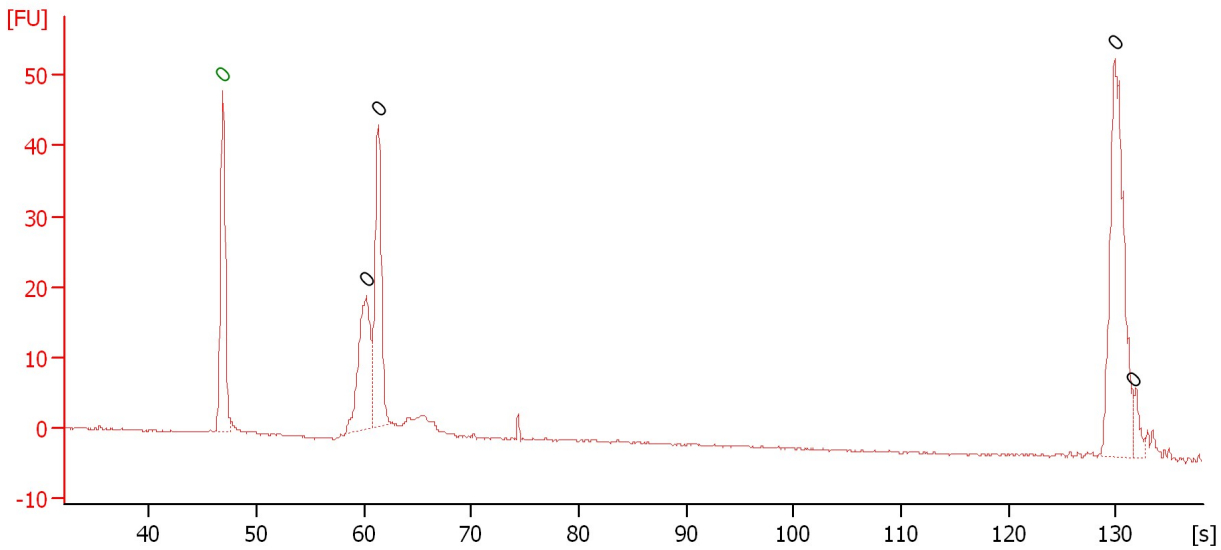
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.15
2	0	0.00	0.0		61.85
3	0	0.00	0.0		131.60

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 25.



**Overall Results for sample 5 : sample 25.**

Number of peaks found: 4                      Noise: 0.1

**Peak table for sample 5 : sample 25.**

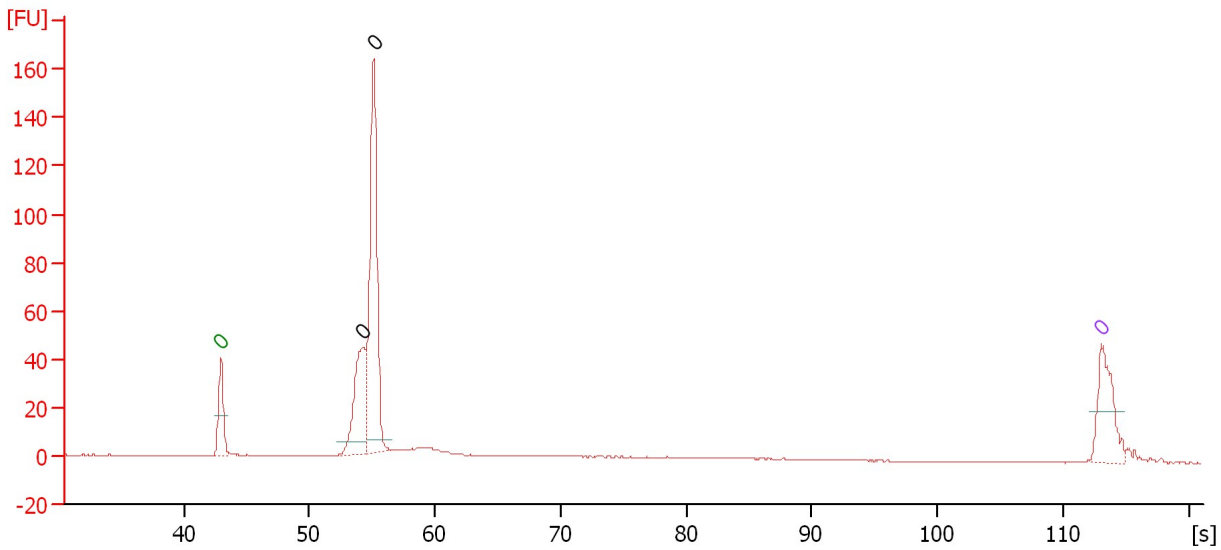
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	46.85
2	0	0.00	0.0		60.20
3	0	0.00	0.0		61.35
4	0	0.00	0.0		129.85
5	0	0.00	0.0		131.65

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 26.



**Overall Results for sample 6 : sample 26.**

Number of peaks found: 2                      Noise: 0.2

**Peak table for sample 6 : sample 26.**

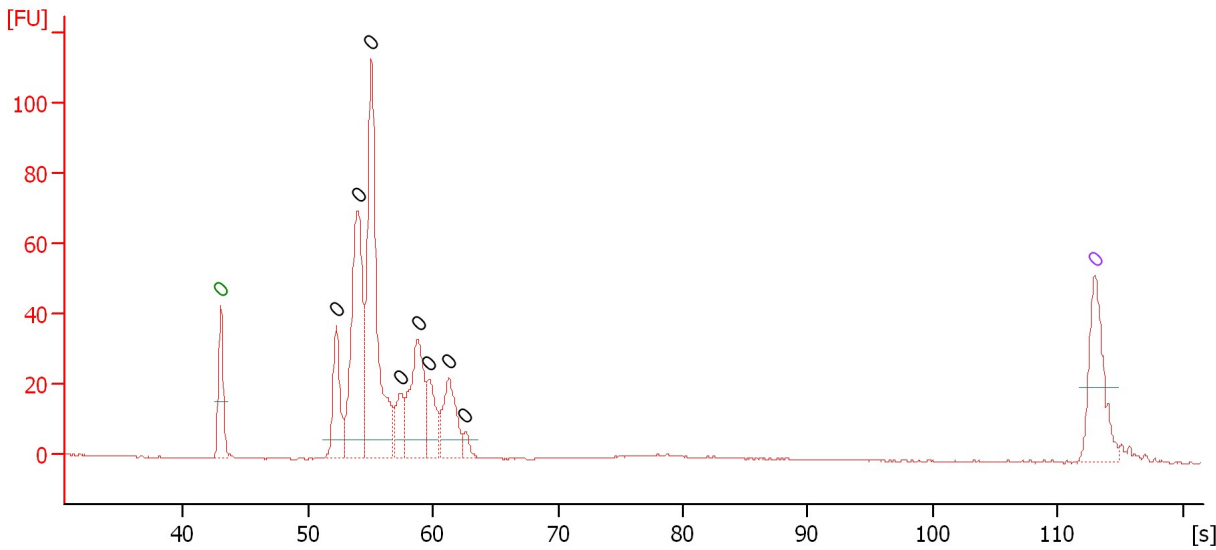
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		54.28
3	0	0.00	0.0		55.14
4	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 27.



**Overall Results for sample 7 : sample 27.**

Number of peaks found: 8                      Noise: 0.1

**Peak table for sample 7 : sample 27.**

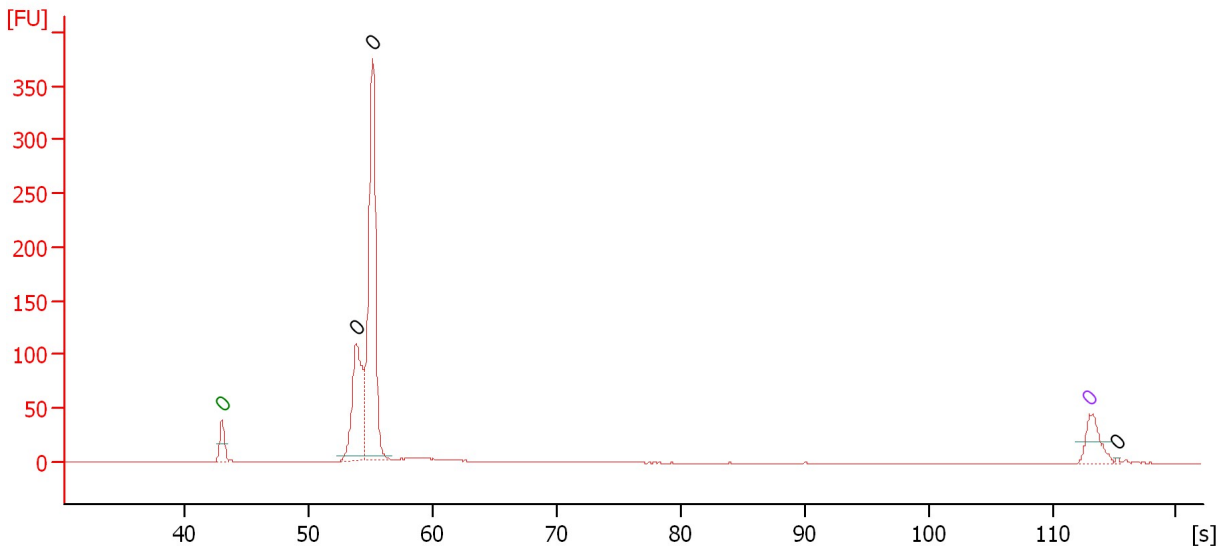
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		52.24
3	0	0.00	0.0		54.01
4	0	0.00	0.0		55.08
5	0	0.00	0.0		57.45
6	0	0.00	0.0		58.78
7	0	0.00	0.0		59.73
8	0	0.00	0.0		61.27
9	0	0.00	0.0		62.61
10	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 28.



**Overall Results for sample 8 : sample 28.**

Number of peaks found: 3                      Noise: 0.1

**Peak table for sample 8 : sample 28.**

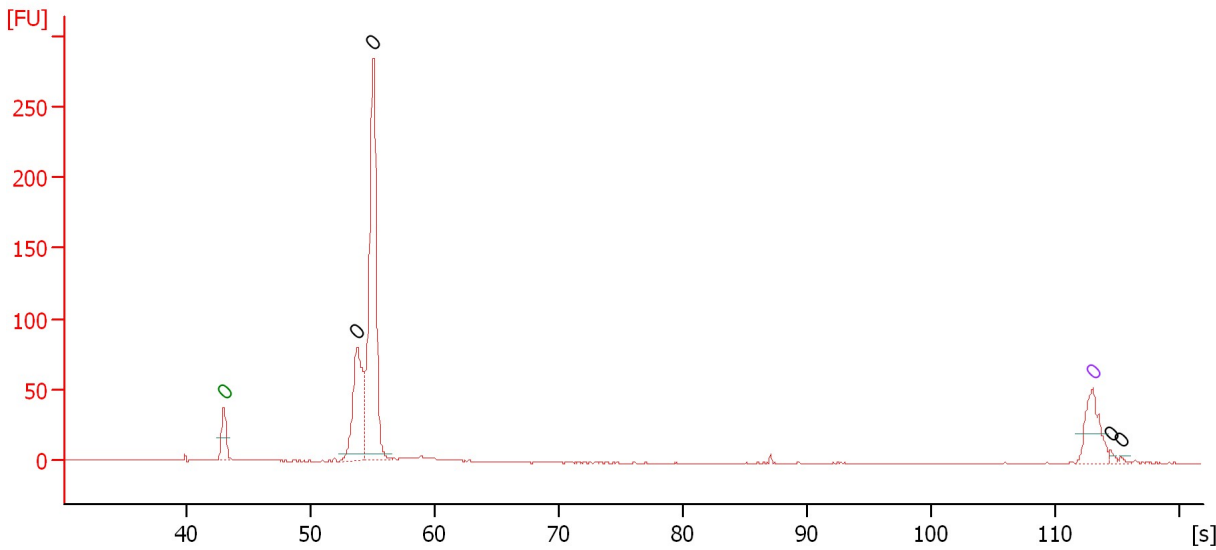
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		53.84
3	0	0.00	0.0		55.14
4	0	0.00	0.0	Upper Marker	113.00
5	0	0.00	0.0		115.21

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 29.



**Overall Results for sample 9 : sample 29.**

Number of peaks found: 4                      Noise: 0.2

**Peak table for sample 9 : sample 29.**

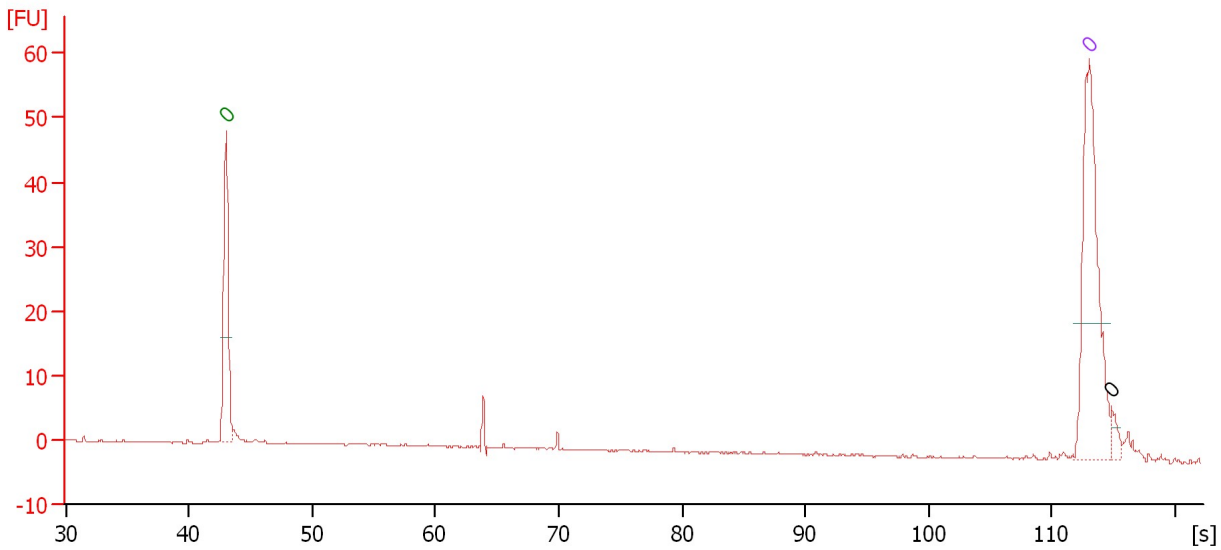
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		53.73
3	0	0.00	0.0		55.03
4	0	0.00	0.0	Upper Marker	113.00
5	0	0.00	0.0		114.43
6	0	0.00	0.0		115.25

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 29.



**Overall Results for sample 10 : sample 29.**

Number of peaks found: 1                      Noise: 0.1

**Peak table for sample 10 : sample 29.**

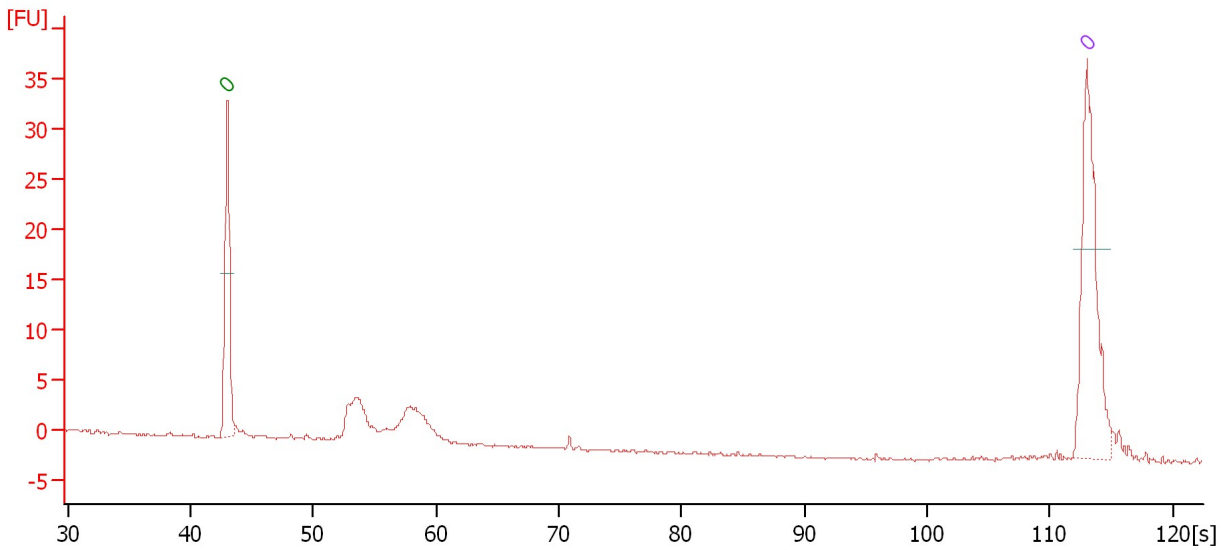
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0	Upper Marker	113.00
3	0	0.00	0.0		114.83

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Electropherogram Summary Continued ...**

sample 30.



**Overall Results for sample 11 : sample 30.**

Number of peaks found: 0                      Noise: 0.1

**Peak table for sample 11 : sample 30.**

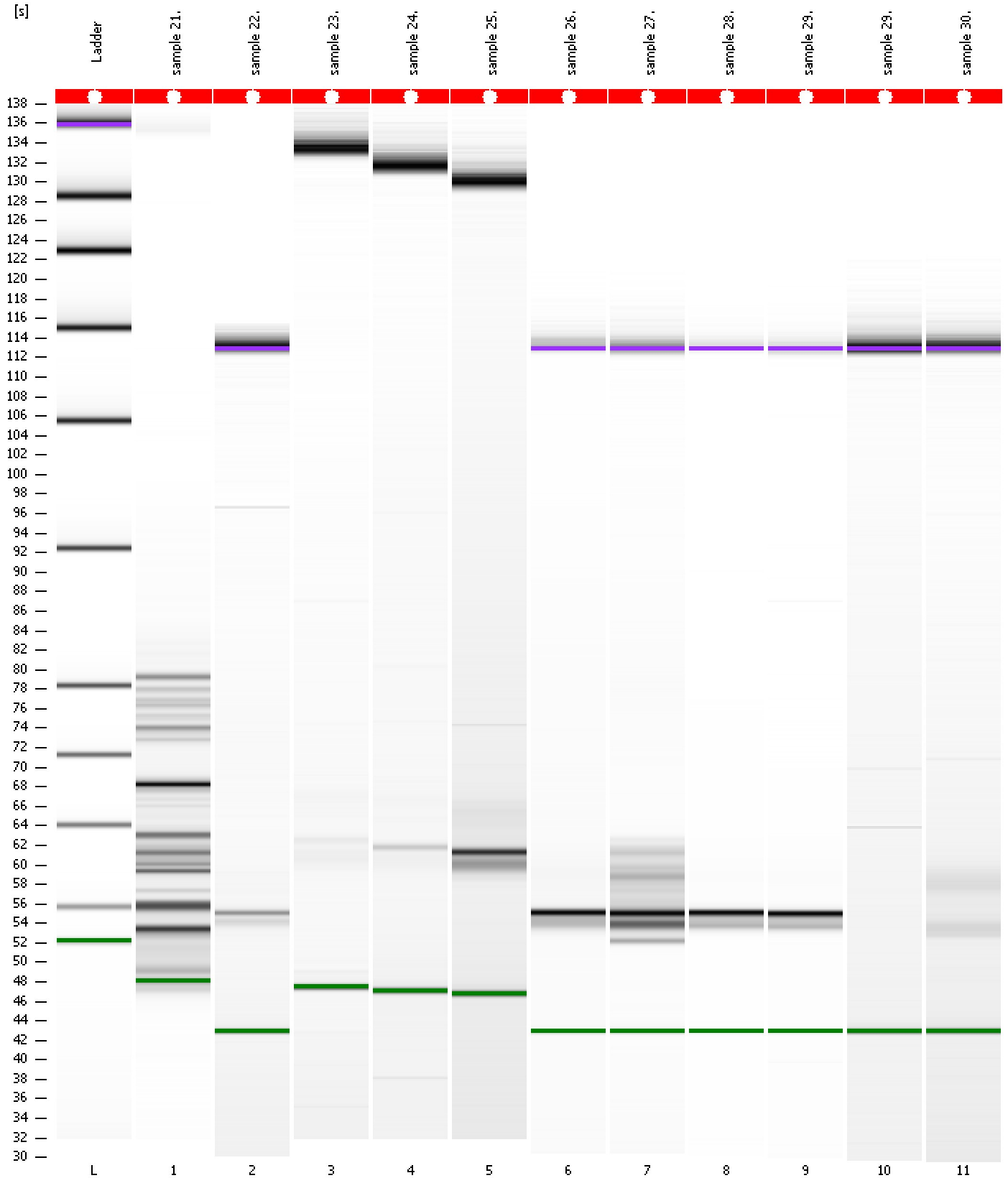
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0	Upper Marker	113.00



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
Modified: 2/10/2015 12:52:25 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_001.xad

Created: 2/10/2015 12:11:05 PM  
 Modified: 2/10/2015 12:52:25 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		2/10/2015 12:52:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-10\2015-02-10_001.xad)		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/10/2015 12:11:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1