

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

Created: 2/6/2015 10:54:06 AM  
Modified: 2/6/2015 11:34:36 AM

### Electrophoresis File Run Summary

#### Instrument Information:

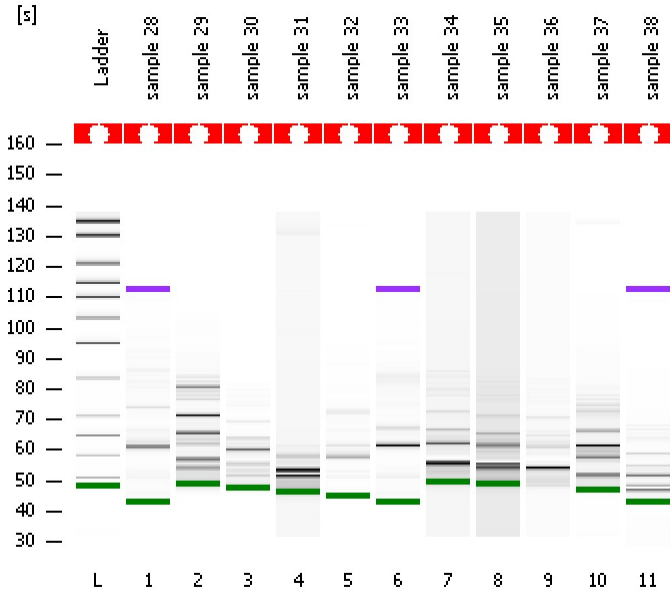
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:

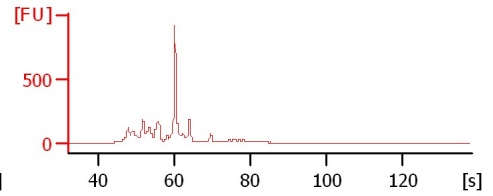
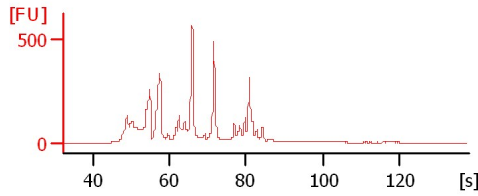
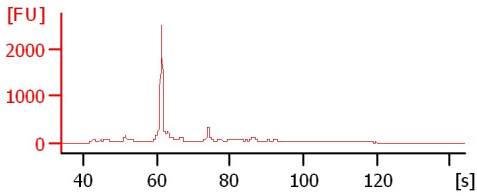
Chip Lot #:      Reagent Kit Lot #:      Chip Comments:



sample 28

sample 29

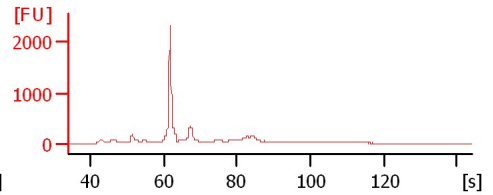
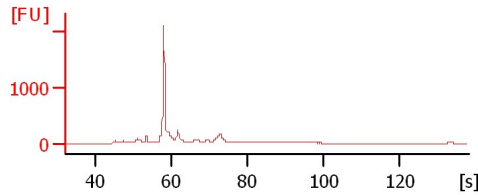
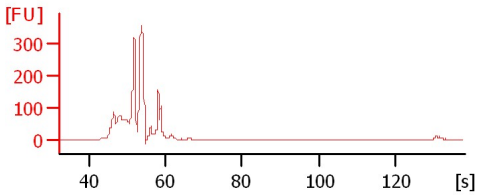
sample 30



sample 31

sample 32

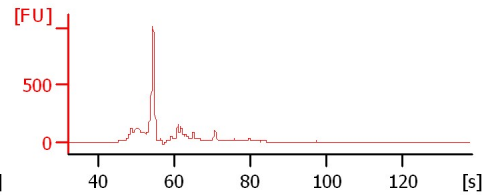
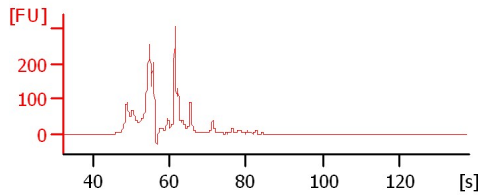
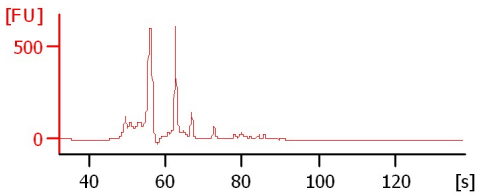
sample 33



sample 34

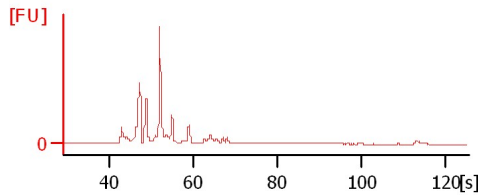
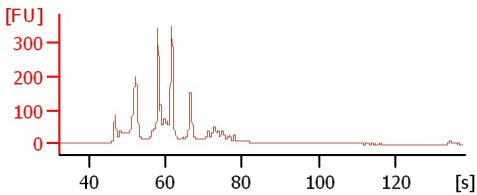
sample 35

sample 36



sample 37

sample 38



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 28		<input type="checkbox"/>	✓			
sample 29		<input type="checkbox"/>	✓			
sample 30		<input type="checkbox"/>	✓			
sample 31		<input type="checkbox"/>	✓			
sample 32		<input type="checkbox"/>	✓			
sample 33		<input type="checkbox"/>	✓			
sample 34		<input type="checkbox"/>	✓			
sample 35		<input type="checkbox"/>	✓			
sample 36		<input type="checkbox"/>	✓			
sample 37		<input type="checkbox"/>	✓			
sample 38		<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

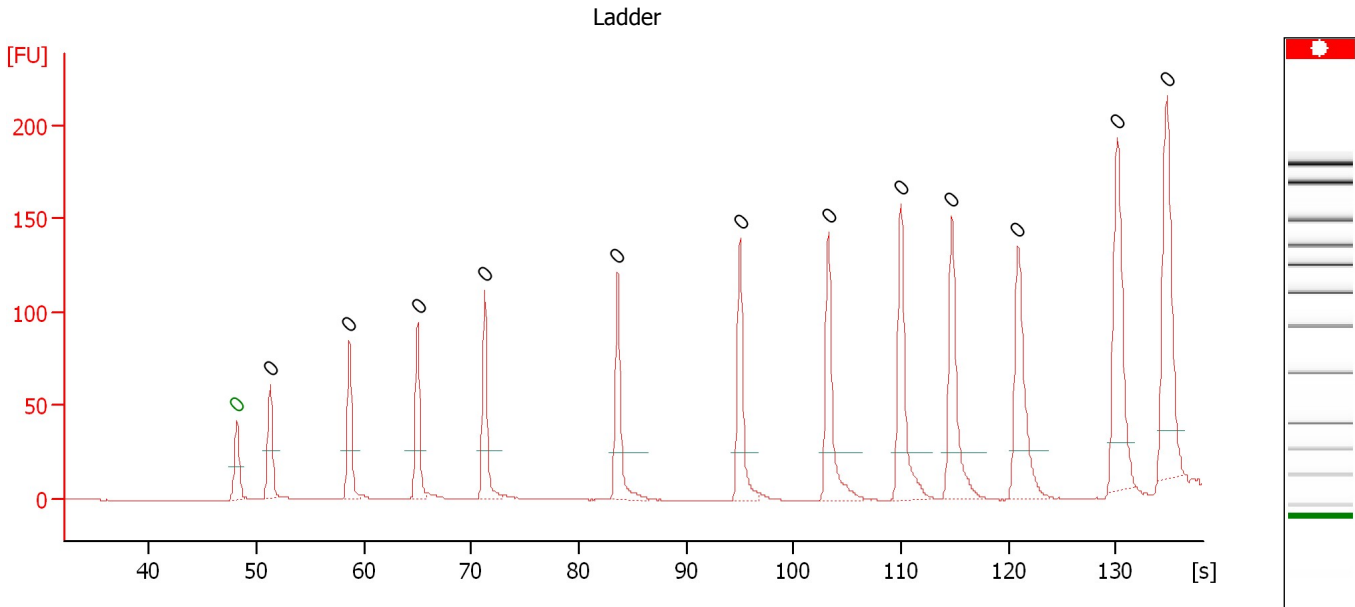
**Ladder**

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: 0.1

**Peak table for Ladder**

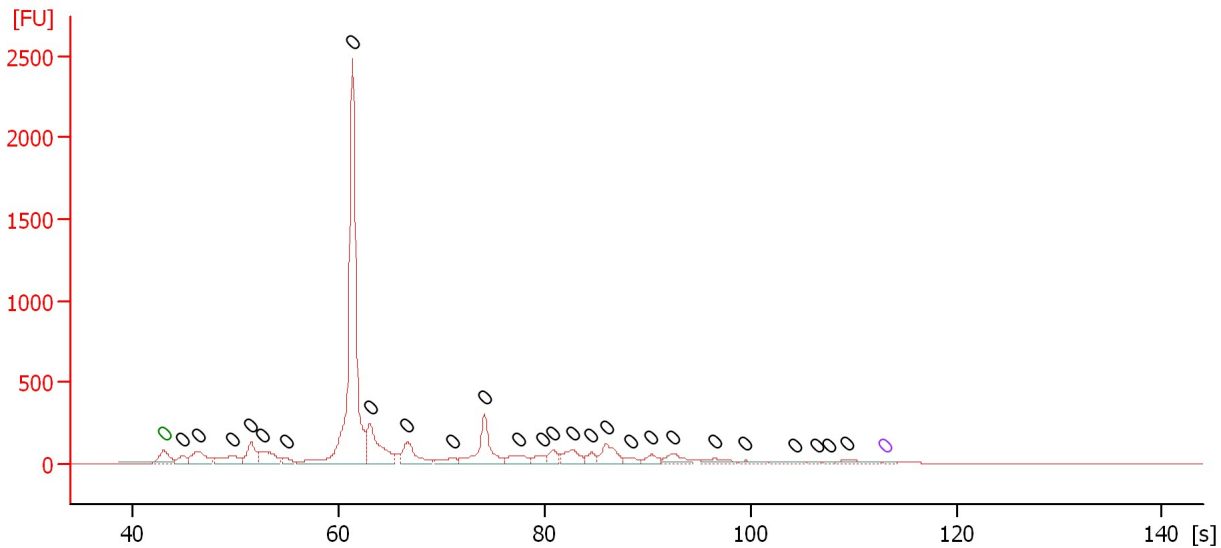
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.15
2	0	0.00	0.0	Ladder Peak	51.25
3	0	0.00	0.0	Ladder Peak	58.65
4	0	0.00	0.0	Ladder Peak	65.00
5	0	0.00	0.0	Ladder Peak	71.25
6	0	0.00	0.0	Ladder Peak	83.60
7	0	0.00	0.0	Ladder Peak	95.00
8	0	0.00	0.0	Ladder Peak	103.25
9	0	0.00	0.0	Ladder Peak	110.00
10	0	0.00	0.0	Ladder Peak	114.75
11	0	0.00	0.0	Ladder Peak	120.90
12	0	0.00	0.0	Ladder Peak	130.15
13	0	0.00	0.0	Ladder Peak	134.75

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**Electropherogram Summary Continued ...**

sample 28



**Overall Results for sample 1 : sample 28**

Number of peaks found: 26                      Noise: 0.1

**Peak table for sample 1 : 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		44.84
3	0	0.00	0.0		46.29
4	0	0.00	0.0		49.71
5	0	0.00	0.0		51.49
6	0	0.00	0.0		52.63
7	0	0.00	0.0		54.91
8	0	0.00	0.0		61.37
9	0	0.00	0.0		63.02
10	0	0.00	0.0		66.69
11	0	0.00	0.0		71.06
12	0	0.00	0.0		74.17
13	0	0.00	0.0		77.52
14	0	0.00	0.0		79.87
15	0	0.00	0.0		80.88
16	0	0.00	0.0		82.72
17	0	0.00	0.0		84.56
18	0	0.00	0.0		86.01
19	0	0.00	0.0		88.42
20	0	0.00	0.0		90.38
21	0	0.00	0.0		92.54
22	0	0.00	0.0		96.59
23	0	0.00	0.0		99.51
24	0	0.00	0.0		104.32
25	0	0.00	0.0		106.41
26	0	0.00	0.0		107.74
27	0	0.00	0.0		109.39

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**Electropherogram Summary Continued ...**

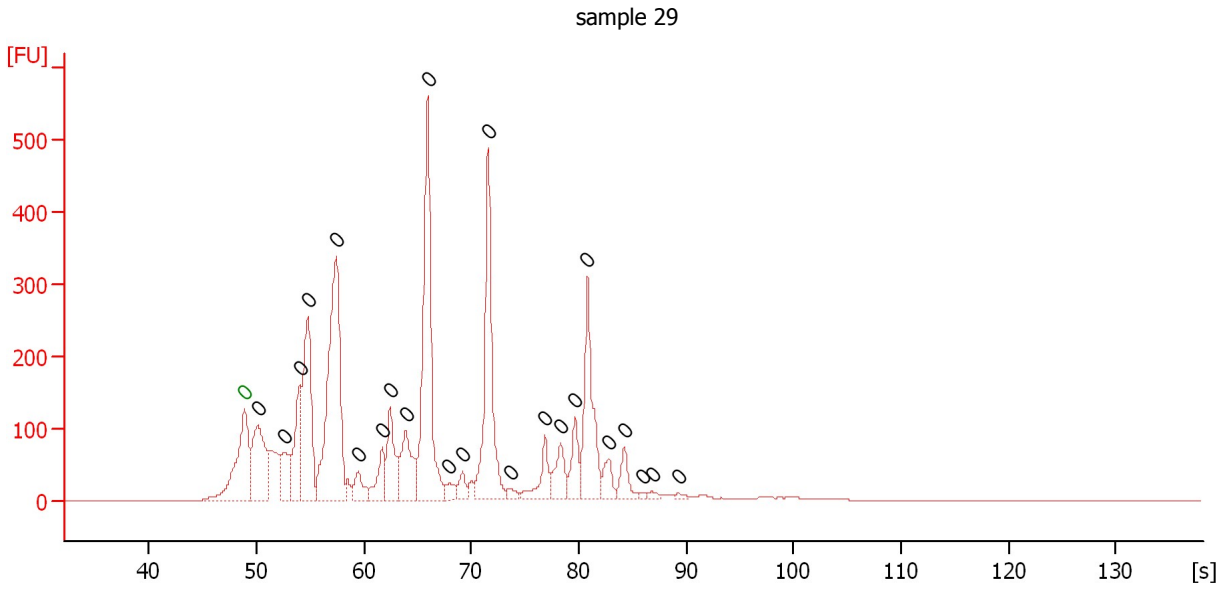
... Peak table for sample 1 : sample 28

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	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\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 29**

Number of peaks found: 23                      Noise: 0.2

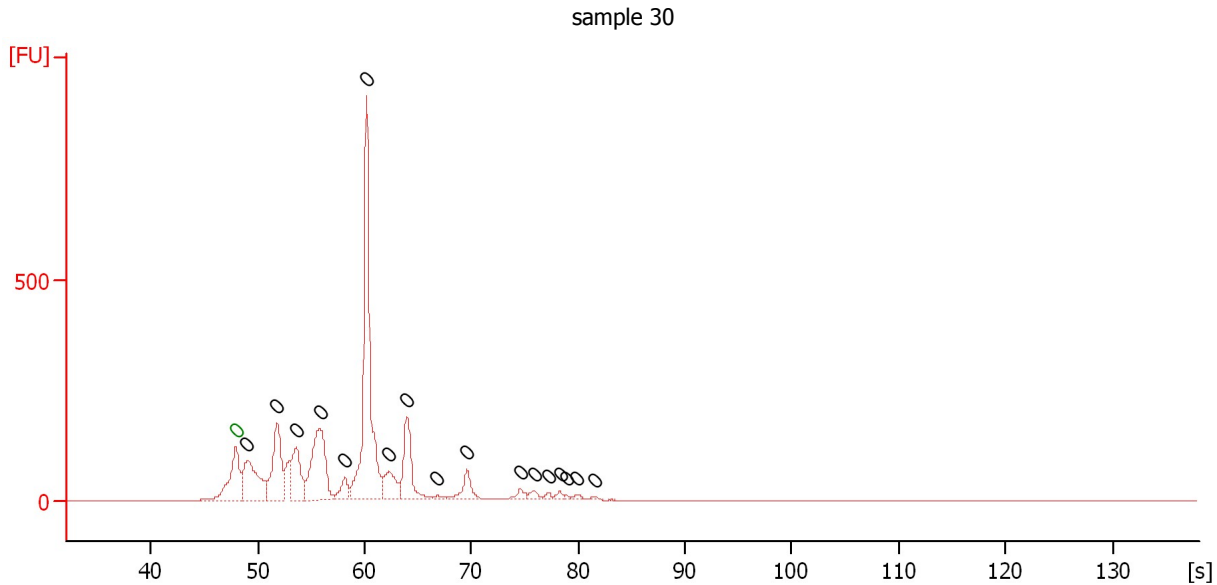
**Peak table for sample 2 : sample 29**

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		52.60
4	0	0.00	0.0		54.00
5	0	0.00	0.0		54.80
6	0	0.00	0.0		57.40
7	0	0.00	0.0		59.50
8	0	0.00	0.0		61.70
9	0	0.00	0.0		62.45
10	0	0.00	0.0		63.90
11	0	0.00	0.0		65.95
12	0	0.00	0.0		67.95
13	0	0.00	0.0		69.15
14	0	0.00	0.0		71.55
15	0	0.00	0.0		73.60
16	0	0.00	0.0		76.85
17	0	0.00	0.0		78.30
18	0	0.00	0.0		79.65
19	0	0.00	0.0		80.80
20	0	0.00	0.0		82.80
21	0	0.00	0.0		84.25
22	0	0.00	0.0		85.90
23	0	0.00	0.0		86.80
24	0	0.00	0.0		89.25

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 30**

Number of peaks found: 17                      Noise: 0.2

**Peak table for sample 3 : sample 30**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.95
2	0	0.00	0.0		49.05
3	0	0.00	0.0		51.80
4	0	0.00	0.0		53.60
5	0	0.00	0.0		55.80
6	0	0.00	0.0		58.15
7	0	0.00	0.0		60.20
8	0	0.00	0.0		62.30
9	0	0.00	0.0		64.00
10	0	0.00	0.0		66.80
11	0	0.00	0.0		69.60
12	0	0.00	0.0		74.55
13	0	0.00	0.0		75.90
14	0	0.00	0.0		77.20
15	0	0.00	0.0		78.30
16	0	0.00	0.0		78.85
17	0	0.00	0.0		79.90
18	0	0.00	0.0		81.50

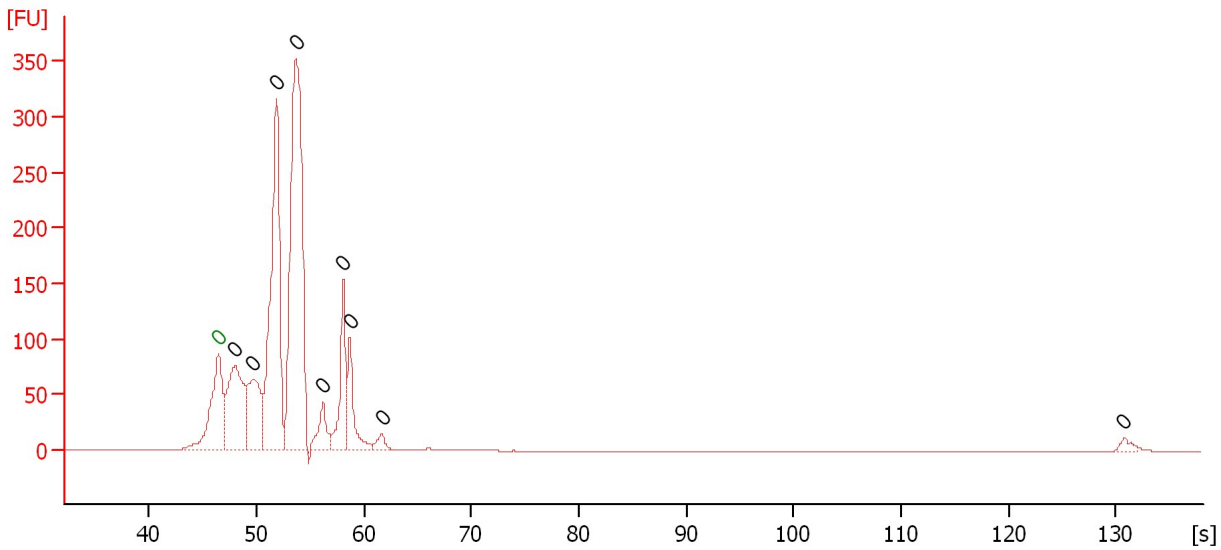


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

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**Electropherogram Summary Continued ...**

sample 31



**Overall Results for sample 4 : sample 31**

Number of peaks found: 9                      Noise: 0.2

**Peak table for sample 4 : sample 31**

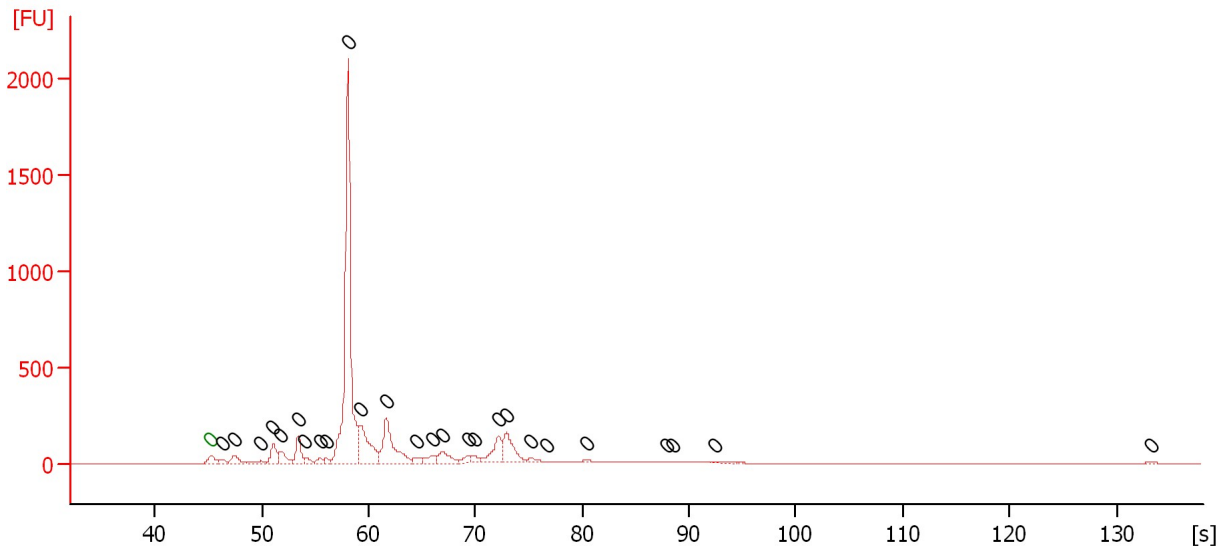
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	46.45
2	0	0.00	0.0		48.00
3	0	0.00	0.0		49.70
4	0	0.00	0.0		51.85
5	0	0.00	0.0		53.65
6	0	0.00	0.0		56.15
7	0	0.00	0.0		58.05
8	0	0.00	0.0		58.70
9	0	0.00	0.0		61.65
10	0	0.00	0.0		130.75

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

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**Electropherogram Summary Continued ...**

sample 32



**Overall Results for sample 5 : sample 32**

Number of peaks found: 26                      Noise: 0.2

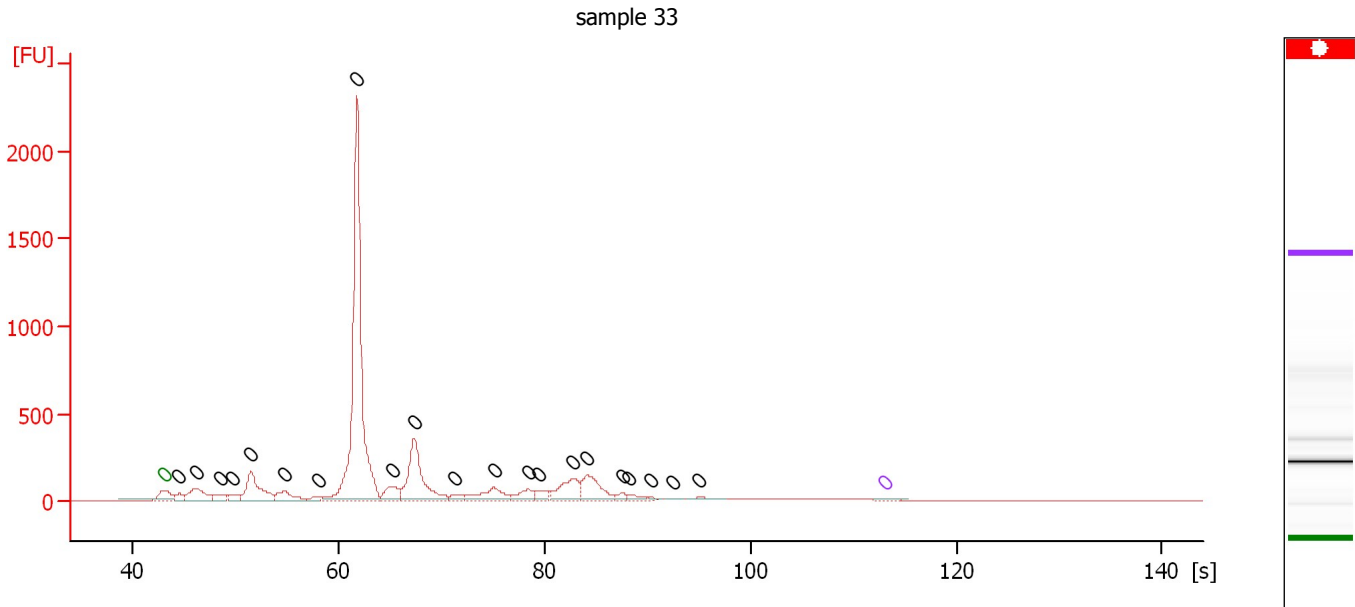
**Peak table for sample 5 : sample 32**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	45.30
2	0	0.00	0.0		46.35
3	0	0.00	0.0		47.50
4	0	0.00	0.0		49.90
5	0	0.00	0.0		51.10
6	0	0.00	0.0		51.85
7	0	0.00	0.0		53.45
8	0	0.00	0.0		54.10
9	0	0.00	0.0		55.45
10	0	0.00	0.0		56.05
11	0	0.00	0.0		58.10
12	0	0.00	0.0		59.25
13	0	0.00	0.0		61.70
14	0	0.00	0.0		64.50
15	0	0.00	0.0		66.05
16	0	0.00	0.0		66.95
17	0	0.00	0.0		69.35
18	0	0.00	0.0		69.85
19	0	0.00	0.0		72.20
20	0	0.00	0.0		72.90
21	0	0.00	0.0		75.25
22	0	0.00	0.0		76.70
23	0	0.00	0.0		80.45
24	0	0.00	0.0		87.95
25	0	0.00	0.0		88.50
26	0	0.00	0.0		92.40
27	0	0.00	0.0		133.25

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 33**

Number of peaks found: 21                      Noise: 0.2

**Peak table for sample 6 : sample 33**

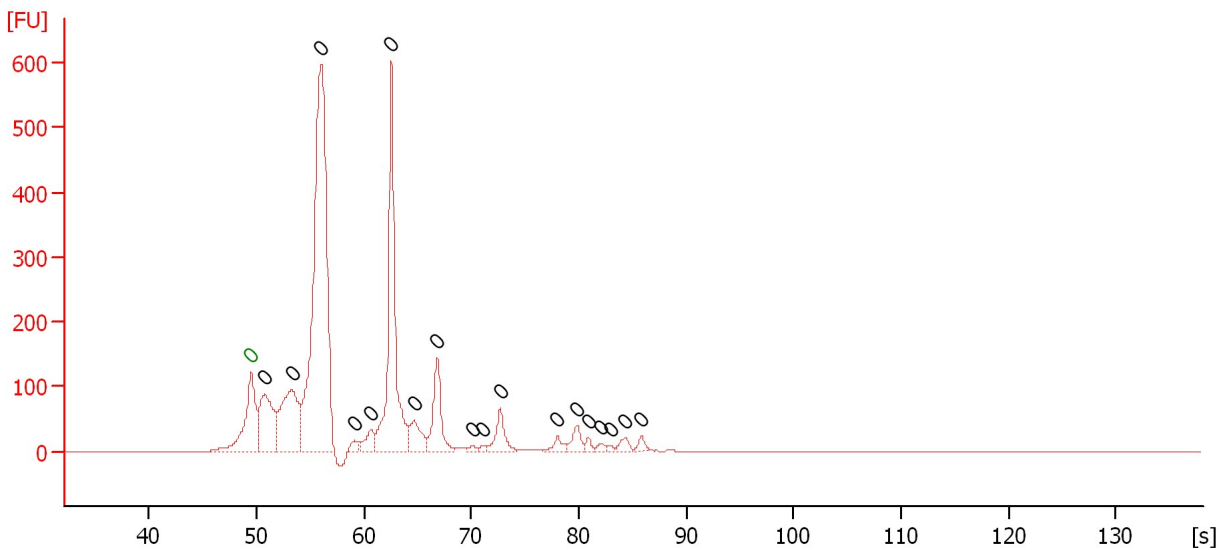
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.50
3	0	0.00	0.0		46.14
4	0	0.00	0.0		48.49
5	0	0.00	0.0		49.60
6	0	0.00	0.0		51.50
7	0	0.00	0.0		54.76
8	0	0.00	0.0		58.03
9	0	0.00	0.0		61.82
10	0	0.00	0.0		65.29
11	0	0.00	0.0		67.31
12	0	0.00	0.0		71.37
13	0	0.00	0.0		75.09
14	0	0.00	0.0		78.49
15	0	0.00	0.0		79.54
16	0	0.00	0.0		82.80
17	0	0.00	0.0		84.18
18	0	0.00	0.0		87.58
19	0	0.00	0.0		88.23
20	0	0.00	0.0		90.39
21	0	0.00	0.0		92.48
22	0	0.00	0.0		95.09
23	0	0.00	0.0	Upper Marker	113.00

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**Electropherogram Summary Continued ...**

sample 34



**Overall Results for sample 7 : sample 34**

Number of peaks found: 18                      Noise: 0.1

**Peak table for sample 7 : sample 34**

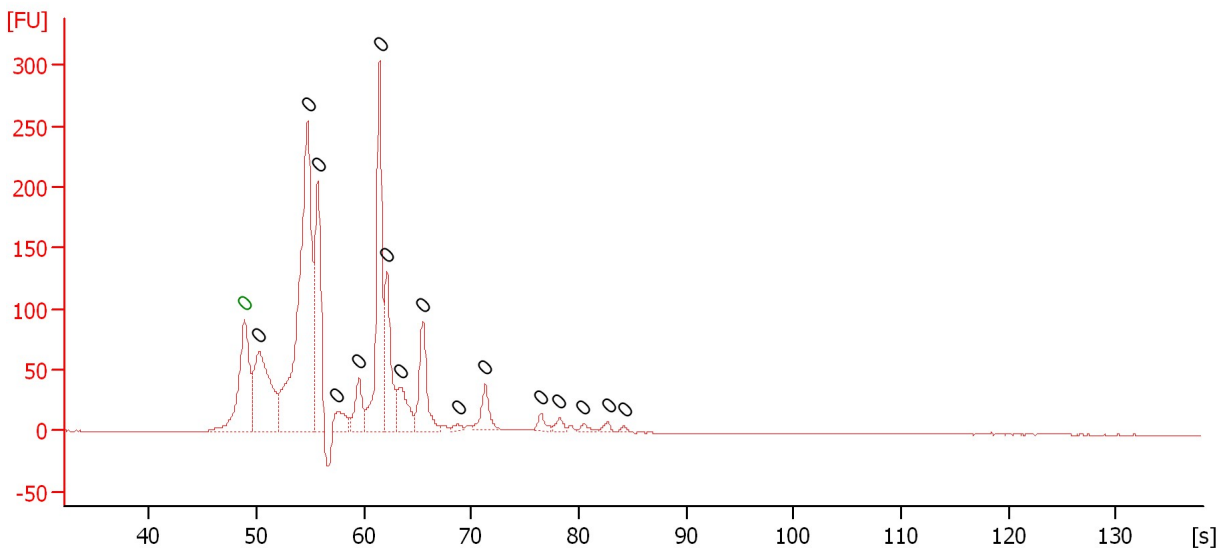
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.50
2	0	0.00	0.0		50.75
3	0	0.00	0.0		53.25
4	0	0.00	0.0		56.00
5	0	0.00	0.0		59.15
6	0	0.00	0.0		60.65
7	0	0.00	0.0		62.55
8	0	0.00	0.0		64.65
9	0	0.00	0.0		66.85
10	0	0.00	0.0		70.15
11	0	0.00	0.0		71.05
12	0	0.00	0.0		72.70
13	0	0.00	0.0		78.00
14	0	0.00	0.0		79.80
15	0	0.00	0.0		80.90
16	0	0.00	0.0		82.10
17	0	0.00	0.0		82.95
18	0	0.00	0.0		84.35
19	0	0.00	0.0		85.85

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**Electropherogram Summary Continued ...**

sample 35



**Overall Results for sample 8 : sample 35**

Number of peaks found: 16                      Noise: 0.1

**Peak table for sample 8 : sample 35**

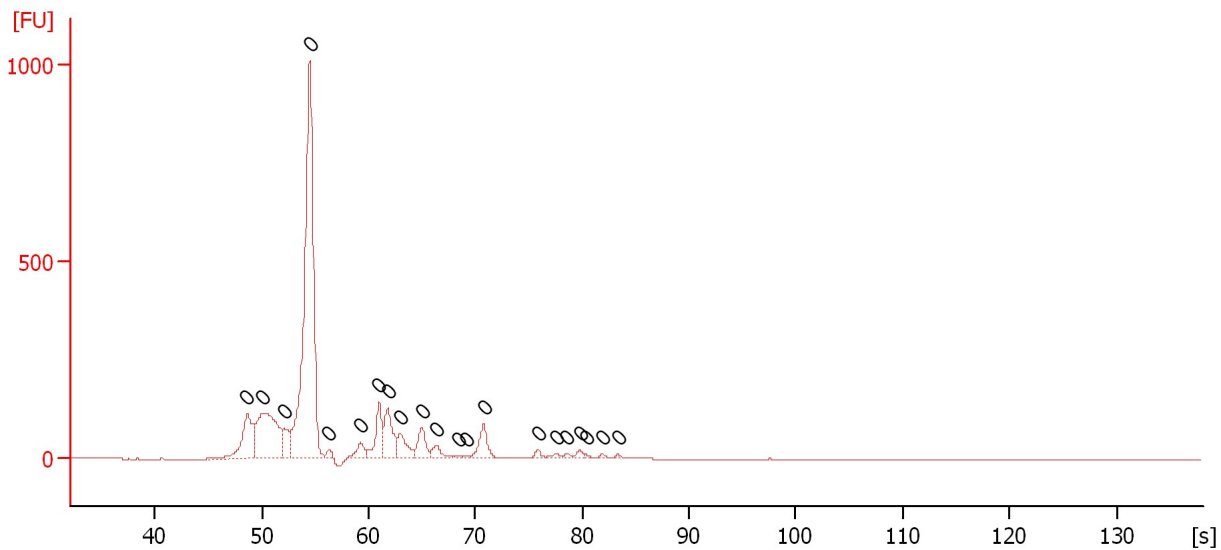
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.85
2	0	0.00	0.0		50.20
3	0	0.00	0.0		54.75
4	0	0.00	0.0		55.70
5	0	0.00	0.0		57.45
6	0	0.00	0.0		59.50
7	0	0.00	0.0		61.45
8	0	0.00	0.0		62.15
9	0	0.00	0.0		63.40
10	0	0.00	0.0		65.50
11	0	0.00	0.0		68.75
12	0	0.00	0.0		71.30
13	0	0.00	0.0		76.50
14	0	0.00	0.0		78.20
15	0	0.00	0.0		80.45
16	0	0.00	0.0		82.70
17	0	0.00	0.0		84.20

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**Electropherogram Summary Continued ...**

sample 36



**Overall Results for sample 9 : sample 36**

Number of peaks found: 0                      Noise: 0.1

**Peak table for sample 9 : sample 36**

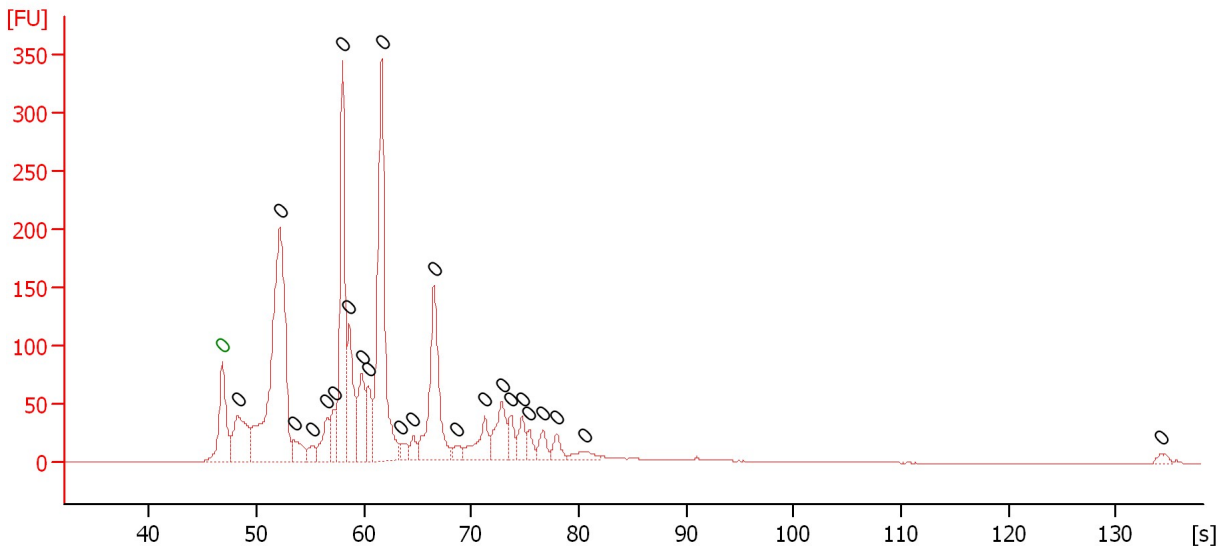
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		48.65
2	0	0.00	0.0		50.15
3	0	0.00	0.0		52.10
4	0	0.00	0.0		54.50
5	0	0.00	0.0		56.35
6	0	0.00	0.0		59.30
7	0	0.00	0.0		61.00
8	0	0.00	0.0		61.80
9	0	0.00	0.0		63.00
10	0	0.00	0.0		65.00
11	0	0.00	0.0		66.35
12	0	0.00	0.0		68.40
13	0	0.00	0.0		69.20
14	0	0.00	0.0		70.80
15	0	0.00	0.0		75.85
16	0	0.00	0.0		77.60
17	0	0.00	0.0		78.65
18	0	0.00	0.0		79.80
19	0	0.00	0.0		80.35
20	0	0.00	0.0		81.90
21	0	0.00	0.0		83.35

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

Created: 2/6/2015 10:54:06 AM  
 Modified: 2/6/2015 11:34:36 AM

**Electropherogram Summary Continued ...**

sample 37



**Overall Results for sample 10 : sample 37**

Number of peaks found: 24                      Noise: 0.1

**Peak table for sample 10 : sample 37**

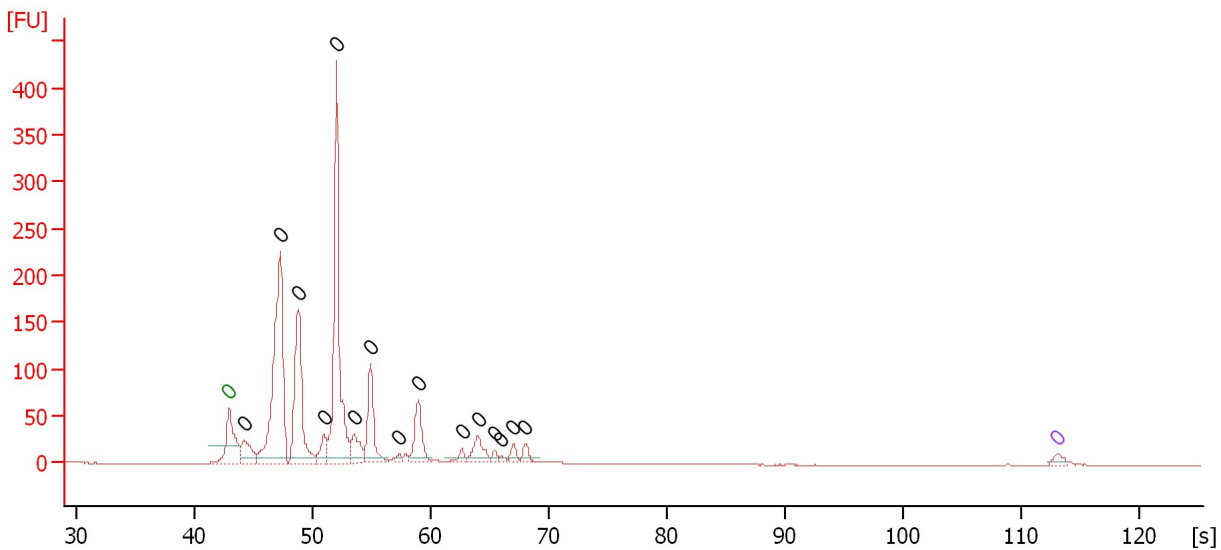
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	46.80
2	0	0.00	0.0		48.25
3	0	0.00	0.0		52.15
4	0	0.00	0.0		53.45
5	0	0.00	0.0		55.25
6	0	0.00	0.0		56.55
7	0	0.00	0.0		57.30
8	0	0.00	0.0		58.00
9	0	0.00	0.0		58.65
10	0	0.00	0.0		59.80
11	0	0.00	0.0		60.40
12	0	0.00	0.0		61.65
13	0	0.00	0.0		63.45
14	0	0.00	0.0		64.60
15	0	0.00	0.0		66.50
16	0	0.00	0.0		68.65
17	0	0.00	0.0		71.25
18	0	0.00	0.0		72.85
19	0	0.00	0.0		73.70
20	0	0.00	0.0		74.75
21	0	0.00	0.0		75.40
22	0	0.00	0.0		76.65
23	0	0.00	0.0		77.95
24	0	0.00	0.0		80.60
25	0	0.00	0.0		134.20

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

Created: 2/6/2015 10:54:06 AM  
 Modified: 2/6/2015 11:34:36 AM

**Electropherogram Summary Continued ...**

sample 38



**Overall Results for sample 11 : sample 38**

Number of peaks found: 15                      Noise: 0.1

**Peak table for sample 11 : sample 38**

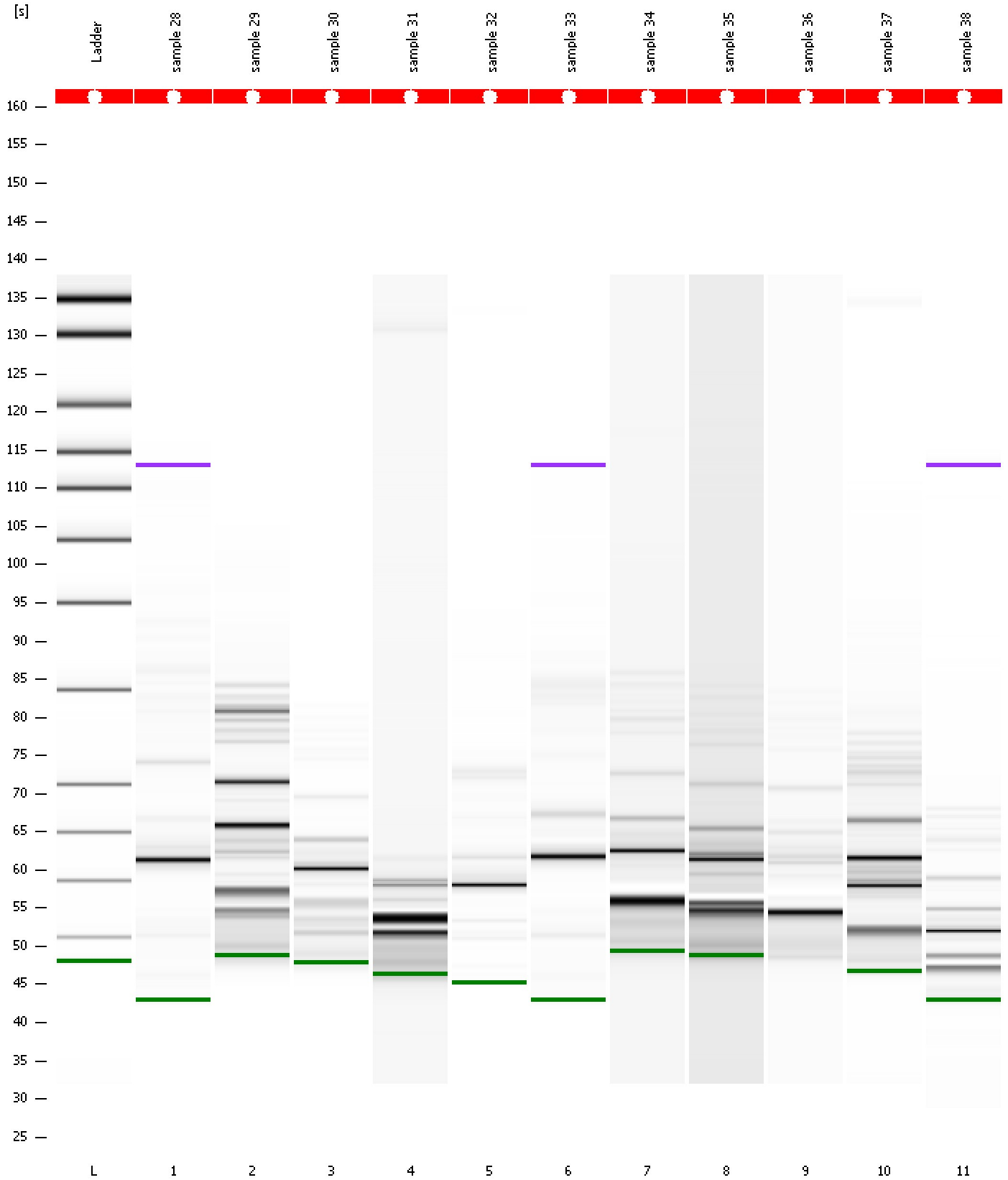
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.27
3	0	0.00	0.0		47.32
4	0	0.00	0.0		48.86
5	0	0.00	0.0		50.99
6	0	0.00	0.0		52.09
7	0	0.00	0.0		53.58
8	0	0.00	0.0		54.95
9	0	0.00	0.0		57.40
10	0	0.00	0.0		59.04
11	0	0.00	0.0		62.67
12	0	0.00	0.0		64.03
13	0	0.00	0.0		65.49
14	0	0.00	0.0		66.03
15	0	0.00	0.0		67.03
16	0	0.00	0.0		68.07
17	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\_003.xad

Created: 2/6/2015 10:54:06 AM  
Modified: 2/6/2015 11:34:36 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-06\2015-02-06\_003.xad

Created: 2/6/2015 10:54:06 AM  
 Modified: 2/6/2015 11:34:36 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 11:34:33 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_003.xad)		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/6/2015 10:54:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1