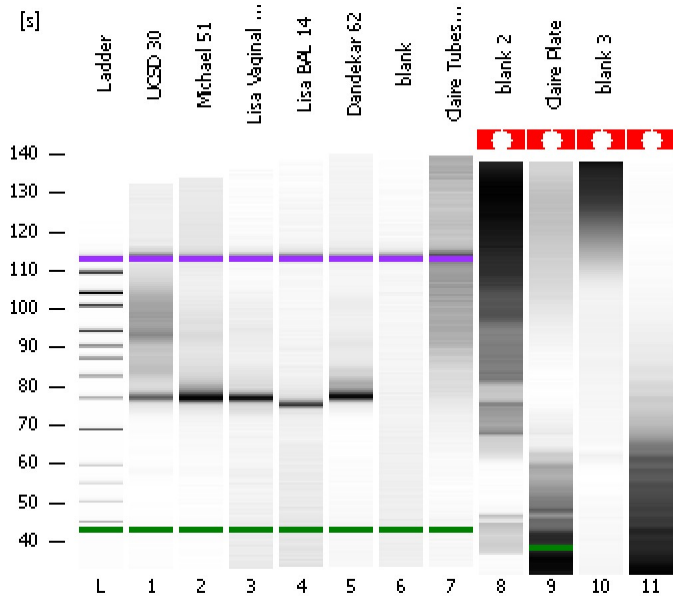


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 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

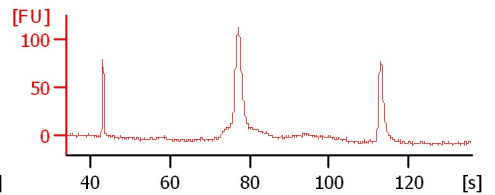
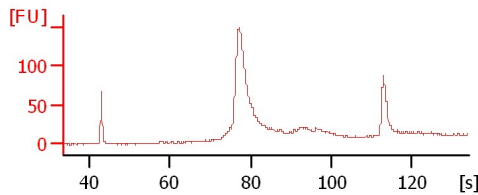
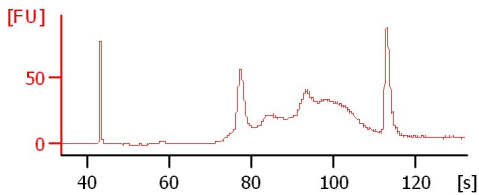
#### Chip Information:

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

UCSD 30

Michael 51

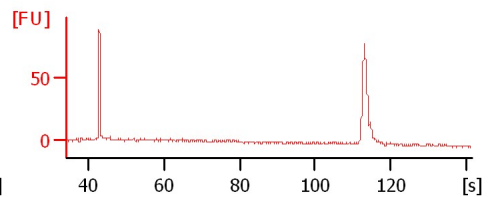
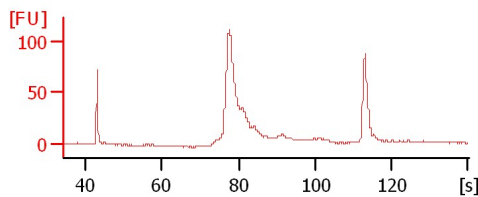
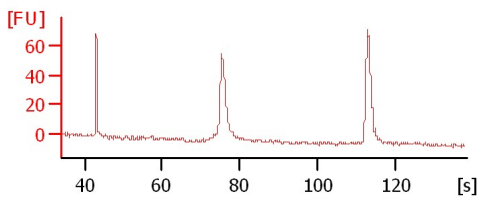
Lisa Vaginal Swab 12



Lisa BAL 14

Dandekar 62

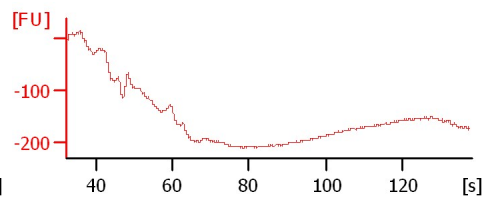
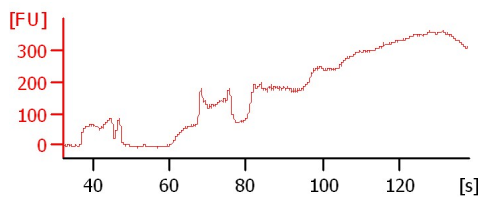
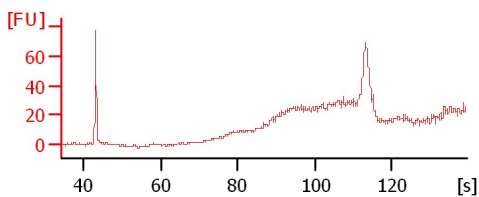
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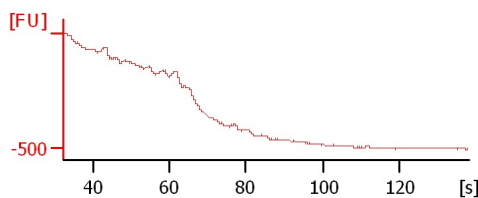
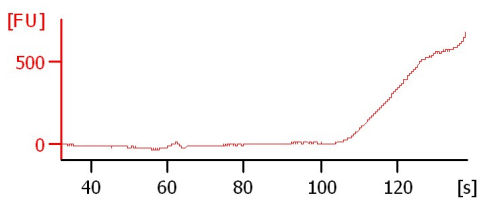
Claire Tubes 1-8

blank 2

Claire Plate



blank 3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
UCSD 30		<input type="checkbox"/>	✓			
Michael 51		<input type="checkbox"/>	✓			
Lisa Vaginal Swab 12		<input type="checkbox"/>	✓			
Lisa BAL 14		<input type="checkbox"/>	✓			
Dandekar 62		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
Claire Tubes 1-8		<input type="checkbox"/>	✓			
blank 2		<input type="checkbox"/>	✓			
Claire Plate		<input type="checkbox"/>	✓			
blank 3		<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\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 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

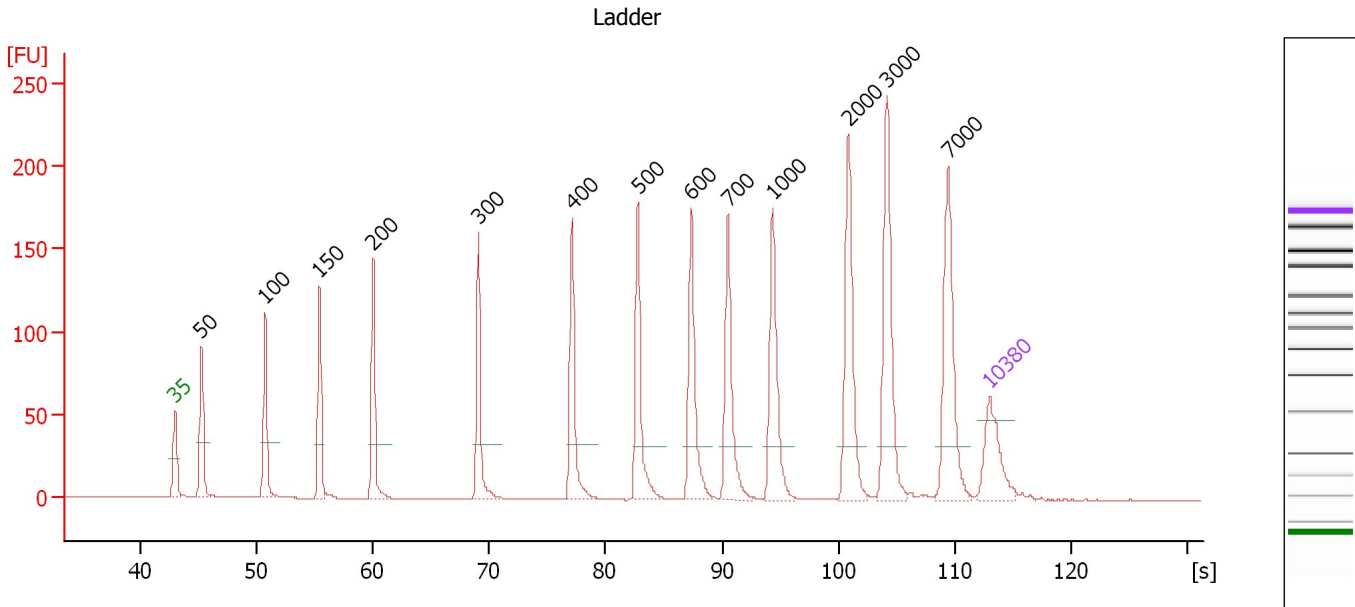
**Ladder**

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\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

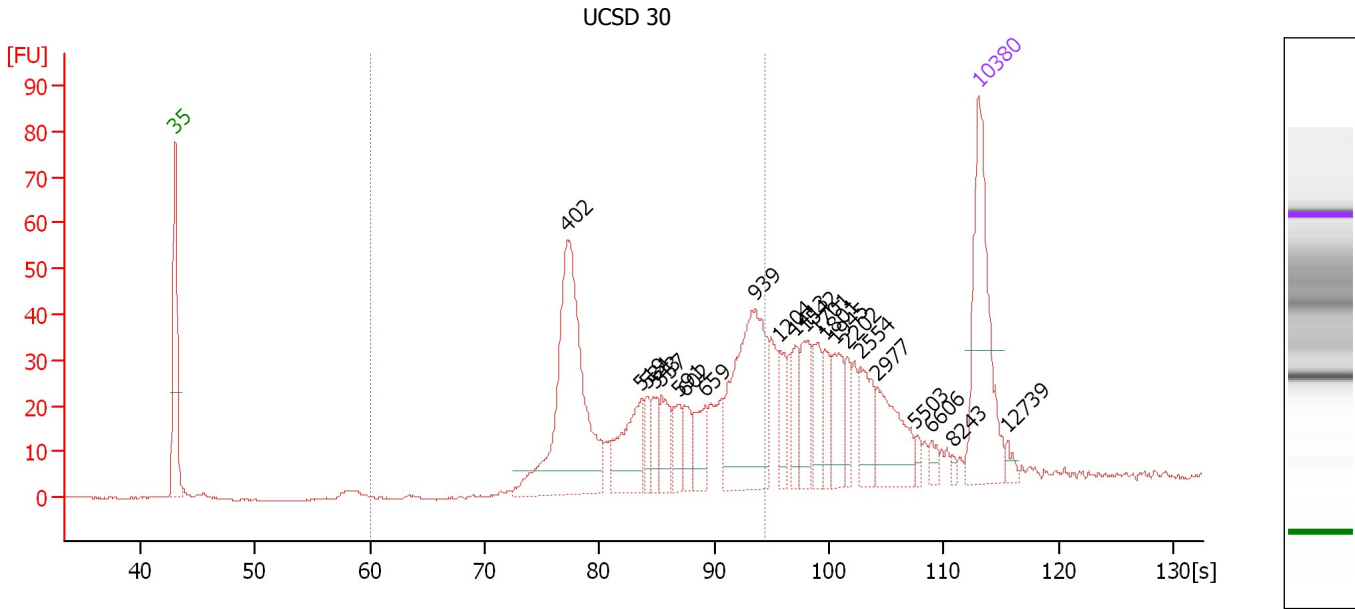
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.26
3	100	150.00	2,272.7	Ladder Peak	50.75
4	150	150.00	1,515.2	Ladder Peak	55.41
5	200	150.00	1,136.4	Ladder Peak	60.03
6	300	150.00	757.6	Ladder Peak	69.07
7	400	150.00	568.2	Ladder Peak	77.10
8	500	150.00	454.5	Ladder Peak	82.78
9	600	150.00	378.8	Ladder Peak	87.34
10	700	150.00	324.7	Ladder Peak	90.53
11	1,000	150.00	227.3	Ladder Peak	94.36
12	2,000	150.00	113.6	Ladder Peak	100.86
13	3,000	150.00	75.8	Ladder Peak	104.19
14	7,000	150.00	32.5	Ladder Peak	109.45
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : UCSD 30**

Number of peaks found: 22                      Corr. Area 1: 509.7  
 Noise: 0.2


**Peak table for sample 1 : UCSD 30**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	402	176.99	667.4		77.20
3	519	46.96	137.0		83.66
4	531	13.36	38.2		84.18
5	543	14.05	39.2		84.74
6	557	22.41	60.9		85.39
7	591	14.41	36.9		86.94
8	602	14.65	36.9		87.41
9	659	21.40	49.2		89.23
10	939	105.75	170.6		93.58
11	1,204	18.45	23.2		95.69
12	1,413	16.13	17.3		97.04
13	1,542	24.92	24.5		97.89
14	1,701	17.53	15.6		98.92
15	1,801	15.46	13.0		99.57
16	1,945	21.11	16.4		100.51
17	2,202	11.21	7.7		101.54
18	2,554	23.35	13.8		102.71
19	2,977	36.70	18.7		104.11
20	5,503	4.41	1.2		107.48
21	6,606	5.36	1.2		108.93
22	8,243	2.30	0.4		110.75
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,739	0.00	0.0		115.48

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 PM

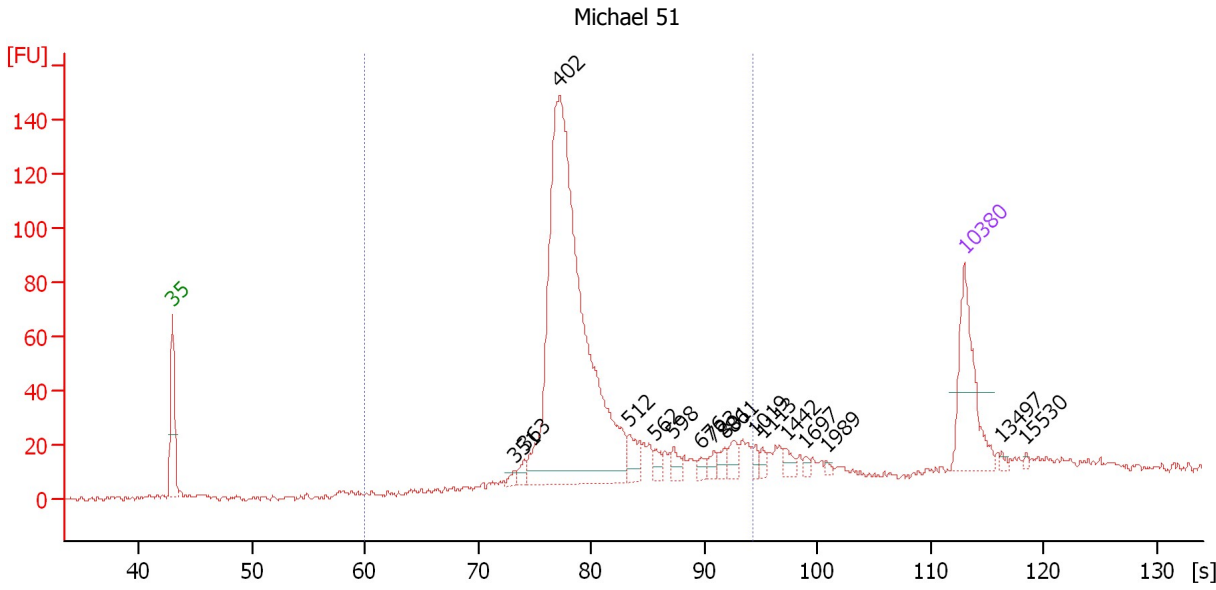
**Electropherogram Summary Continued ...****... Region table for sample 1 : UCSD 30**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Molarity [pmol/l]</b>	<b>Co lor</b>
200	599	1,000	509.7	57	31.7	429.69	1,231.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Michael 51**

Number of peaks found: 17      Corr. Area 1: 858.1  
 Noise: 1.0

**Peak table for sample 2 : Michael 51**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	351	5.65	24.4		73.16
3	363	9.26	38.7		74.11
4	402	675.59	2,548.7		77.19
5	512	22.95	67.9		83.32
6	562	9.30	25.1		85.60
7	598	10.91	27.6		87.26
8	676	7.75	17.4		89.78
9	723	8.05	16.9		90.82
10	801	8.88	16.8		91.82
11	861	12.47	22.0		92.58
12	1,019	6.07	9.0		94.48
13	1,113	5.43	7.4		95.10
14	1,442	8.17	8.6		97.23
15	1,697	3.28	2.9		98.90
16	1,989	2.34	1.8		100.80
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,497	0.00	0.0		116.28
19	15,530	0.00	0.0		118.41

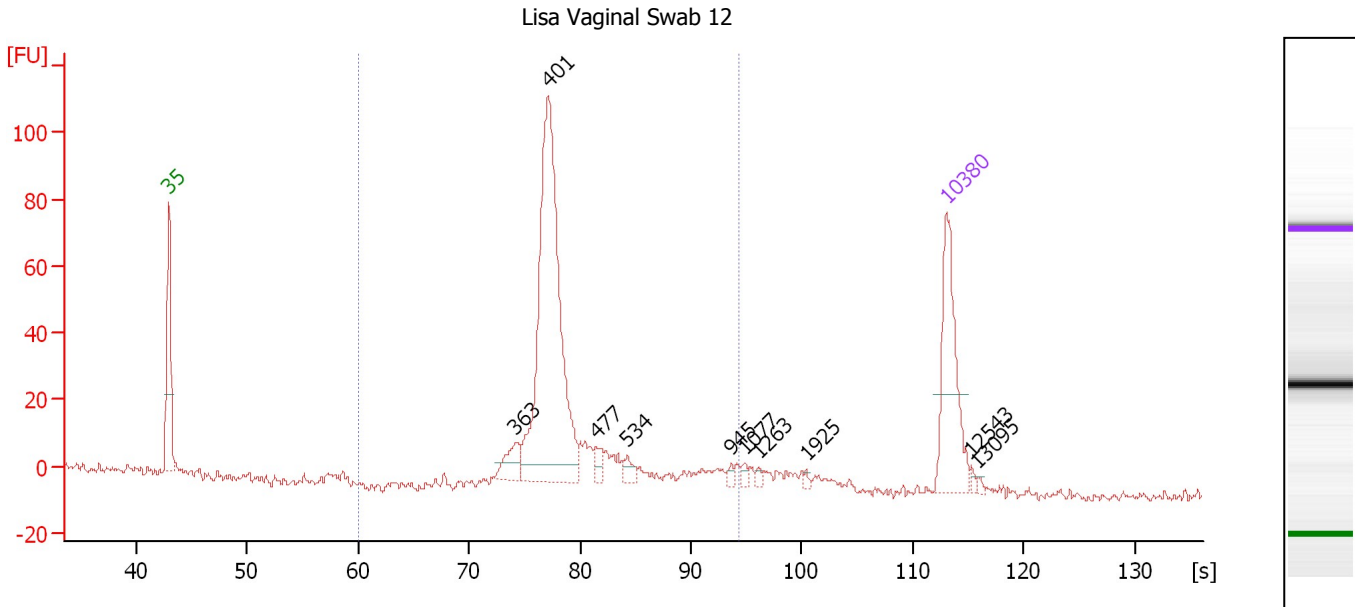
**Region table for sample 2 : Michael 51**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	471	1,000	858.1	87	26.9	831.32	2,843.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Lisa Vaginal Swab 12**

Number of peaks found: 10                      Corr. Area 1: 441.3  
 Noise: 1.3

**Peak table for sample 3 : Lisa Vaginal Swab 12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	363	23.76	99.1		74.15
3	401	323.49	1,222.5		77.15
4	477	10.85	34.5		81.46
5	534	10.24	29.1		84.31
6	945	3.99	6.4		93.65
7	1,077	4.00	5.6		94.86
8	1,263	3.12	3.7		96.07
9	1,925	2.16	1.7		100.37
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,543	0.00	0.0		115.27
12	13,095	0.00	0.0		115.85

**Region table for sample 3 : Lisa Vaginal Swab 12**

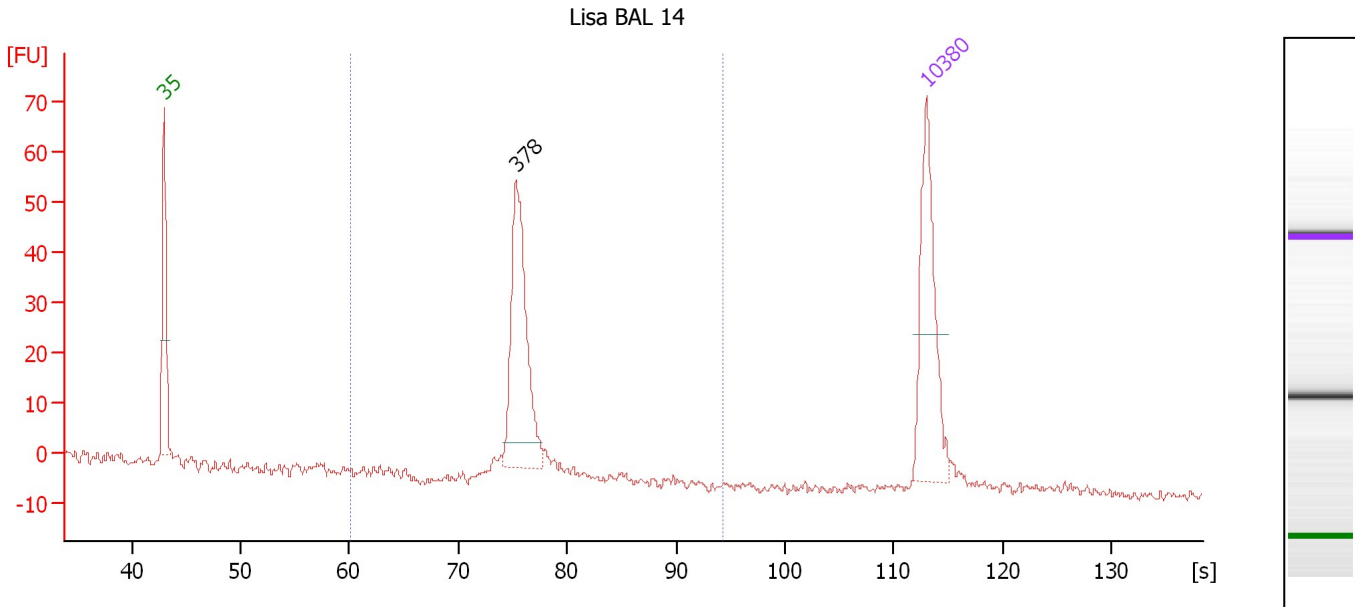
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	444	1,000	441.3	90	24.8	426.27	1,523.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Lisa BAL 14**

Number of peaks found: 1                      Corr. Area 1: 140.2  
 Noise: 0.6

**Peak table for sample 4 : Lisa BAL 14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	378	133.86	537.0		75.31
3	10,380	75.00	10.9	Upper Marker	113.00

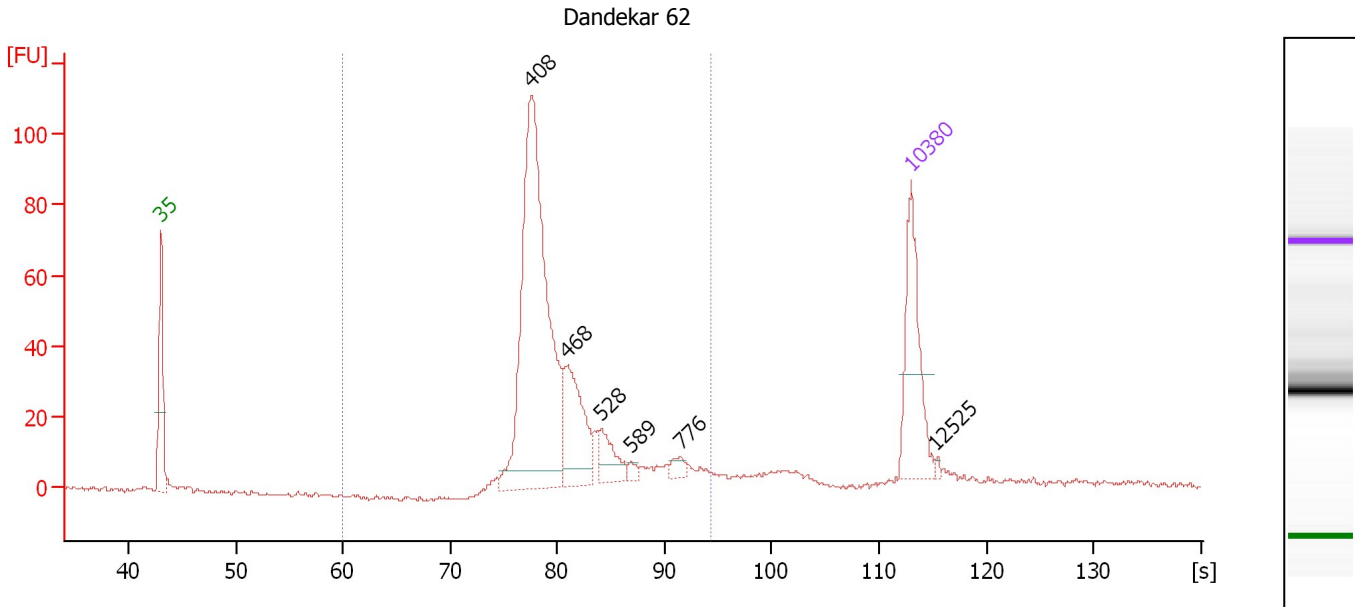
**Region table for sample 4 : Lisa BAL 14**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	384	1,000	140.2	91	4.1	146.43	577.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Dandekar 62**

Number of peaks found: 6                      Corr. Area 1: 582.7  
 Noise: 0.5

**Peak table for sample 5 : Dandekar 62**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	408	386.77	1,435.1		77.57
3	468	88.35	286.3		80.93
4	528	30.98	89.0		84.04
5	589	5.40	13.9		86.84
6	776	8.06	15.7		91.50
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,525	0.00	0.0		115.25

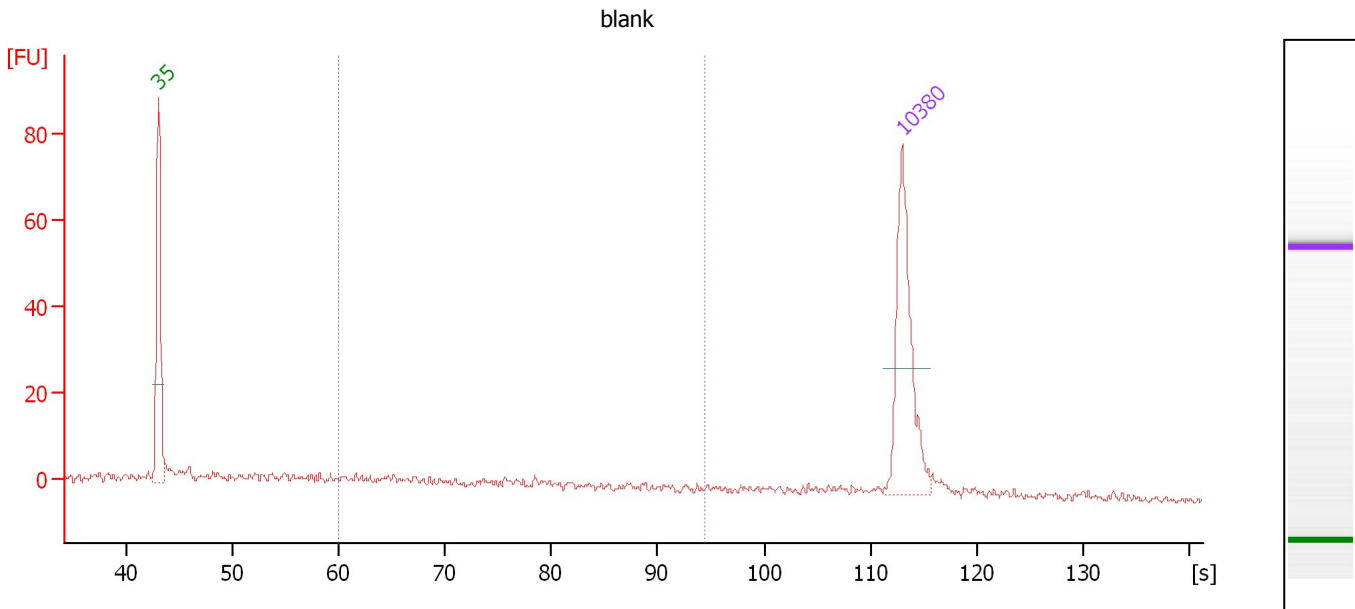
**Region table for sample 5 : Dandekar 62**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	469	1,000	582.7	89	22.4	566.52	1,909.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : blank**

Number of peaks found: 0                      Corr. Area 1: 70.0  
 Noise: 1.0

**Peak table for sample 6 : blank**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

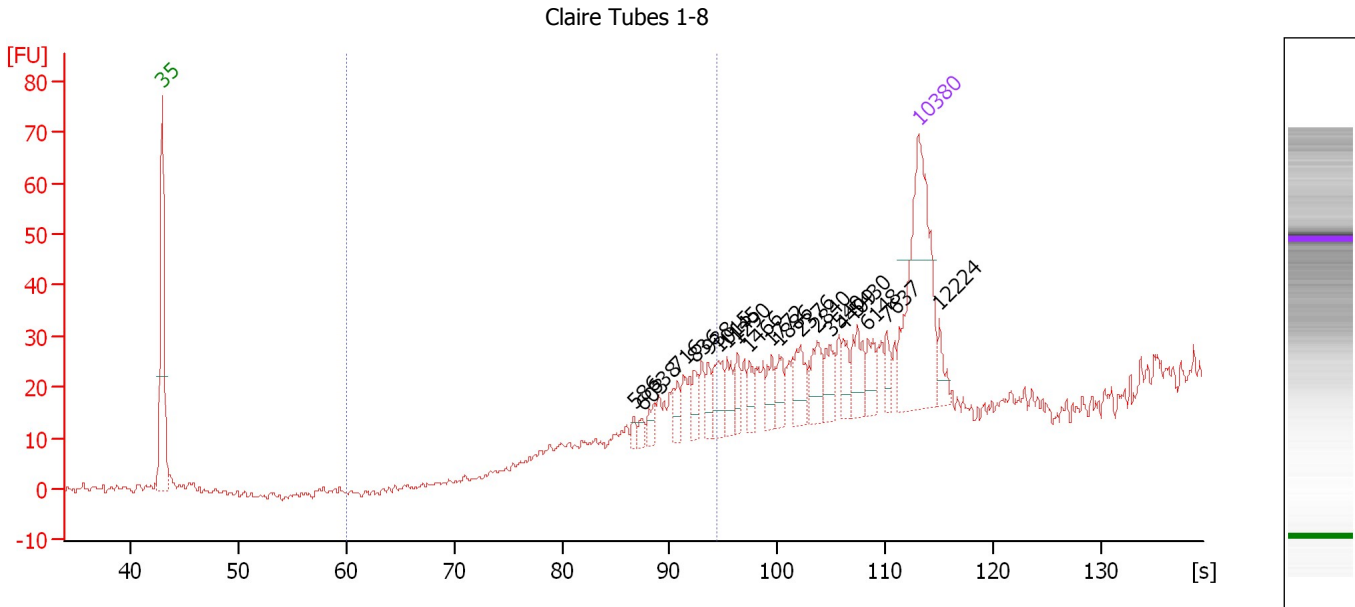
**Region table for sample 6 : blank**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	417	1,000	70.0	34	43.3	69.37	316.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Claire Tubes 1-8**

Number of peaks found: 20                      Corr. Area 1: 50.9  
 Noise: 0.8

**Peak table for sample 7 : Claire Tubes 1-8**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	586	3.40	8.8		86.70
3	603	4.00	10.1		87.45
4	638	6.51	15.5		88.54
5	716	7.91	16.8		90.73
6	836	7.98	14.5		92.27
7	938	8.05	13.0		93.56
8	1,015	14.23	21.2		94.46
9	1,145	9.86	13.0		95.30
10	1,290	7.56	8.9		96.25
11	1,466	7.59	7.8		97.39
12	1,772	8.54	7.3		99.38
13	1,886	8.43	6.8		100.12
14	2,376	12.29	7.8		102.11
15	2,840	13.83	7.4		103.65
16	3,540	10.63	4.5		104.90
17	4,409	8.09	2.8		106.04
18	5,430	14.56	4.1		107.38
19	6,148	10.08	2.5		108.33
20	7,637	5.84	1.2		110.12
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,224	0.00	0.0		114.94

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**

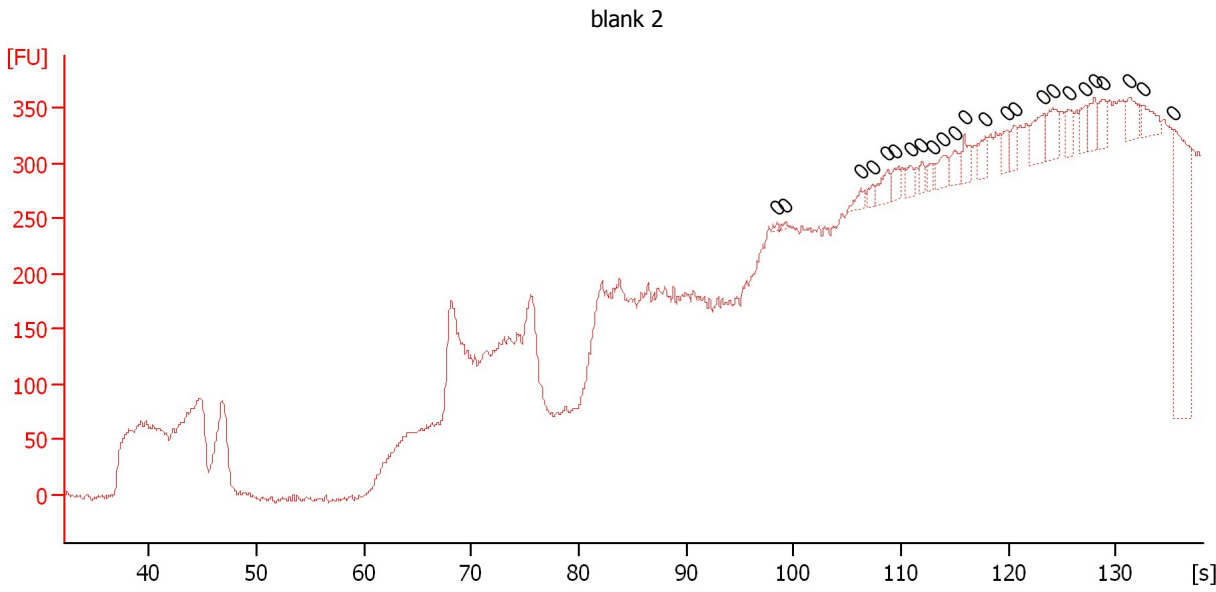
... Region table for sample 7 : Claire Tubes 1-8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
200	804	1,000	50.9	22	14.5	44.71	86.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : blank 2**

Number of peaks found: 0                      Noise: 3.5

**Peak table for sample 8 : blank 2**

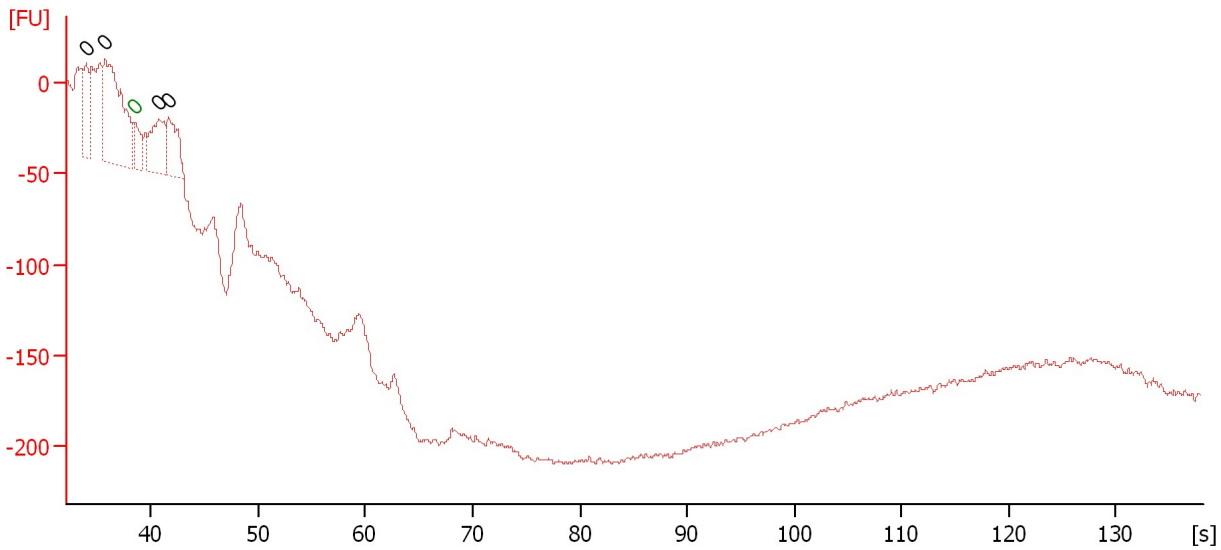
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		98.40
2	0	0.00	0.0		99.25
3	0	0.00	0.0		106.25
4	0	0.00	0.0		107.30
5	0	0.00	0.0		108.75
6	0	0.00	0.0		109.40
7	0	0.00	0.0		110.90
8	0	0.00	0.0		111.95
9	0	0.00	0.0		112.90
10	0	0.00	0.0		114.00
11	0	0.00	0.0		114.95
12	0	0.00	0.0		115.90
13	0	0.00	0.0		117.85
14	0	0.00	0.0		119.80
15	0	0.00	0.0		120.55
16	0	0.00	0.0		123.30
17	0	0.00	0.0		124.15
18	0	0.00	0.0		125.60
19	0	0.00	0.0		127.20
20	0	0.00	0.0		128.00
21	0	0.00	0.0		128.85
22	0	0.00	0.0		131.30
23	0	0.00	0.0		132.50
24	0	0.00	0.0		135.35

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

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**Electropherogram Summary Continued ...**

Claire Plate



**Overall Results for sample 9 : Claire Plate**

Number of peaks found: 4                      Noise: 1.6

**Peak table for sample 9 : Claire Plate**

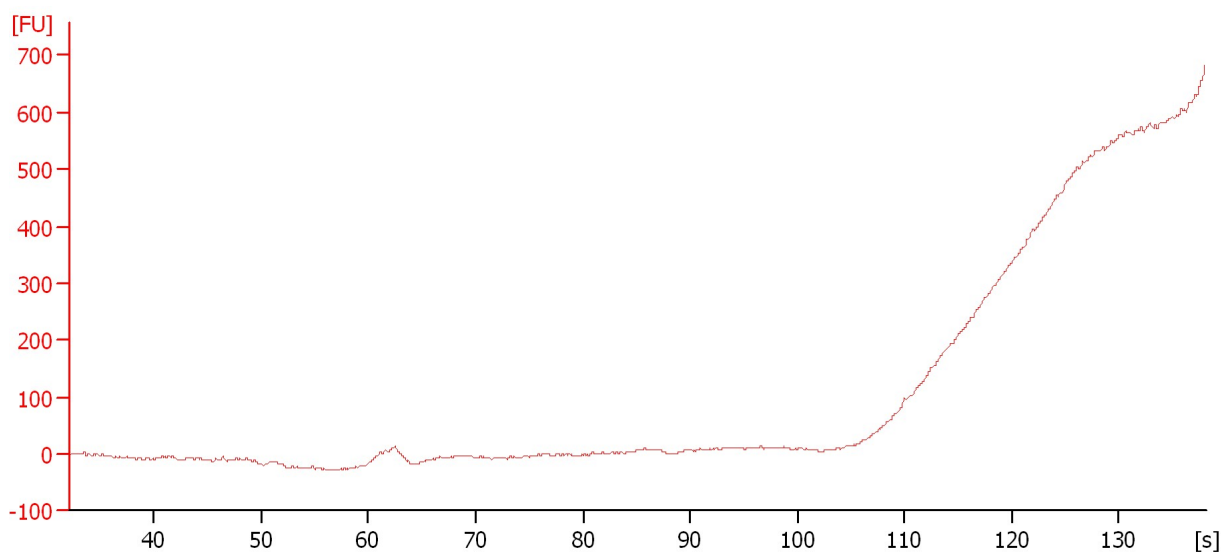
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		33.95
2	0	0.00	0.0		35.70
3	0	0.00	0.0	Lower Marker	38.50
4	0	0.00	0.0		40.70
5	0	0.00	0.0		41.65

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**

blank 3



**Overall Results for sample 10 : blank 3**

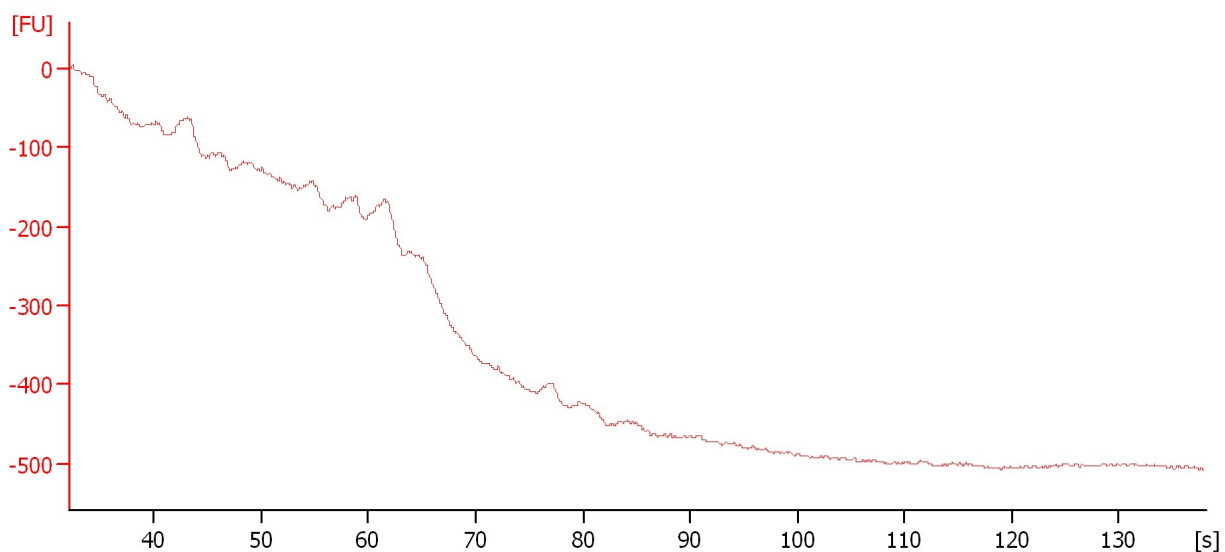
Noise: 1.9



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 PM

**Electropherogram Summary Continued ...**



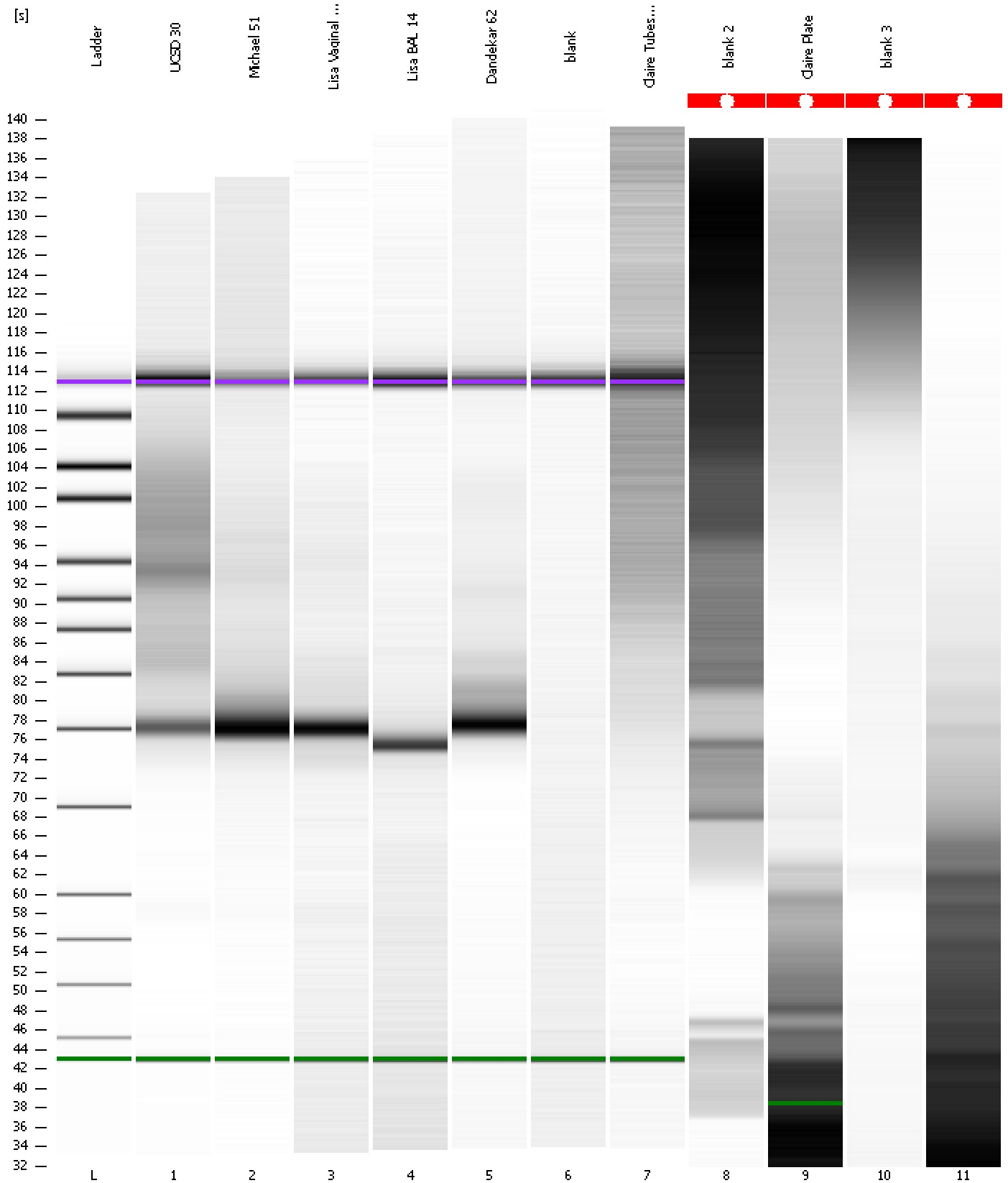
**Overall Results for sample 11 : \_**

Noise: 2.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
Modified: 2/17/2015 2:37:56 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-17\2015-02-17\_003.xad

Created: 2/17/2015 1:56:40 PM  
 Modified: 2/17/2015 2:37:56 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		2/17/2015 2:37:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-17\2015-02-17_003.xad)		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/17/2015 1:56:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1