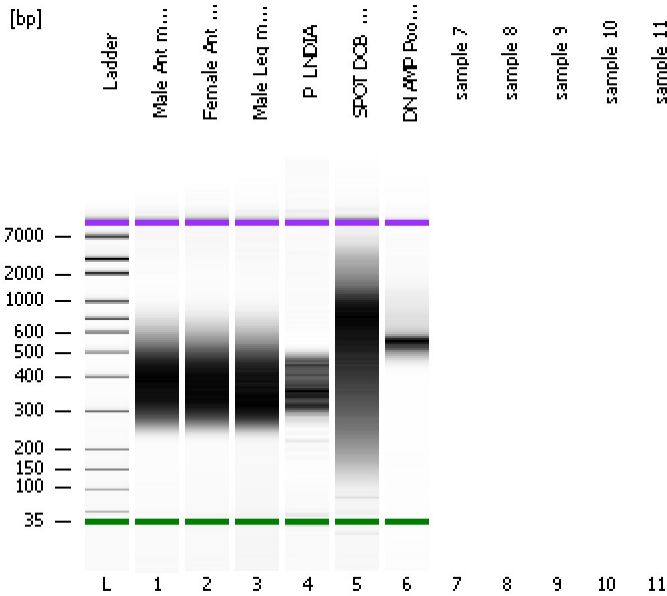


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
Modified: 3/22/2013 4:27:57 PM

Electrophoresis File Run Summary



Instrument Information:

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

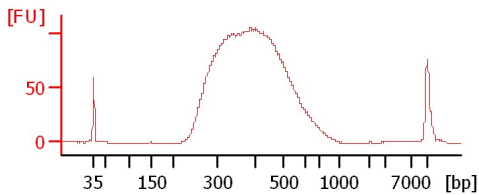
Assay Information:

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

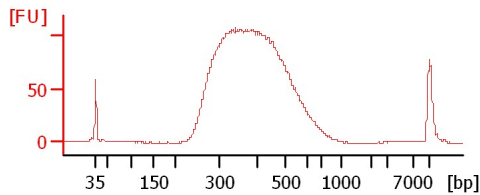
Chip Information:

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

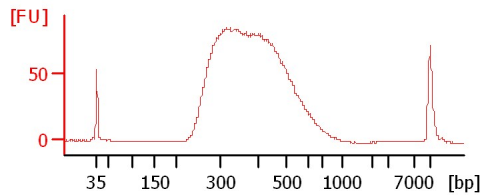
Male Ant mRNA Lib 1:3



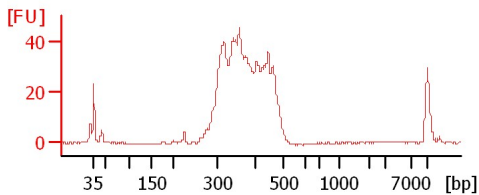
Female Ant mRNA Lib 1:2



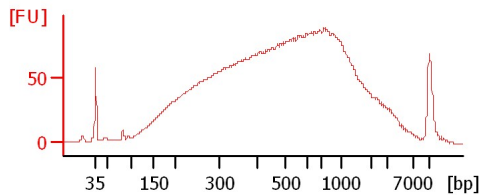
Male Leg mRNA Lib 1:3



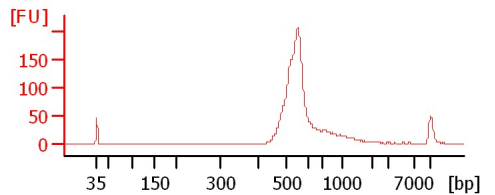
P_LNDIA



SPOT DOB_MG 1:2



DN AMP Pool USC 1:3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Male Ant mRNA Lib 1:3		<input type="checkbox"/>	✓			
Female Ant mRNA Lib 1:2		<input type="checkbox"/>	✓			
Male Leg mRNA Lib 1:3		<input type="checkbox"/>	✓			
P_LNDIA		<input type="checkbox"/>	✓			
SPOT DOB_MG 1:2		<input type="checkbox"/>	✓			
DN AMP Pool USC 1:3		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
Modified: 3/22/2013 4:27:57 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

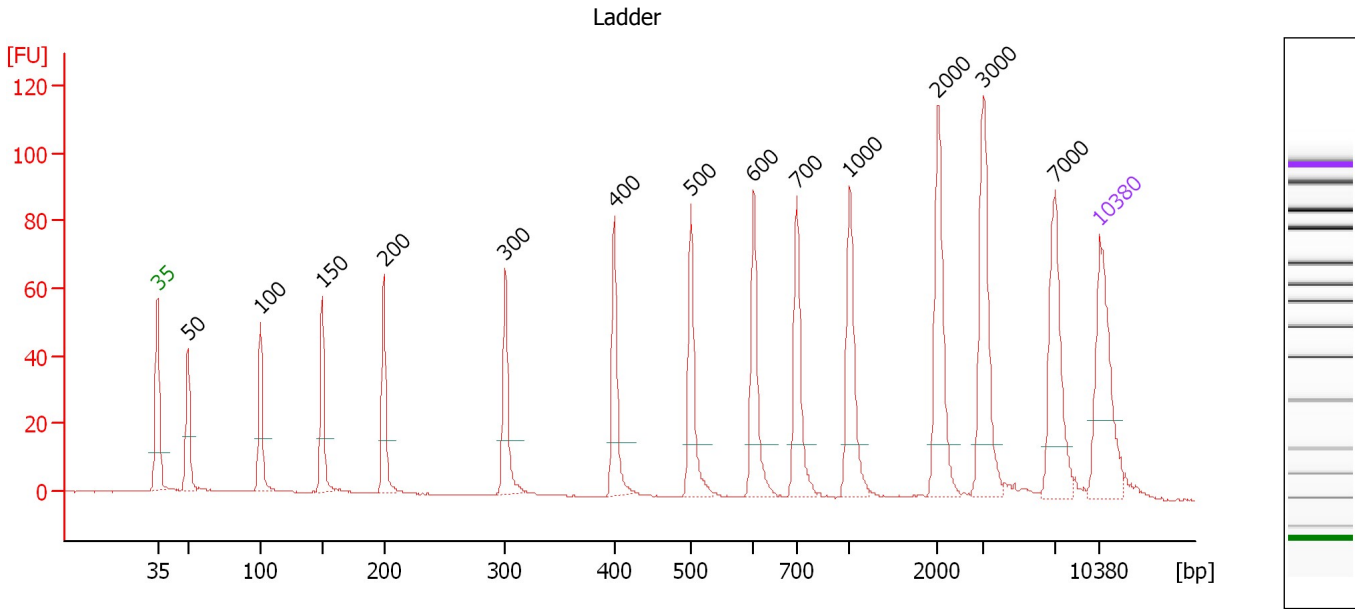
Ladder

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\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

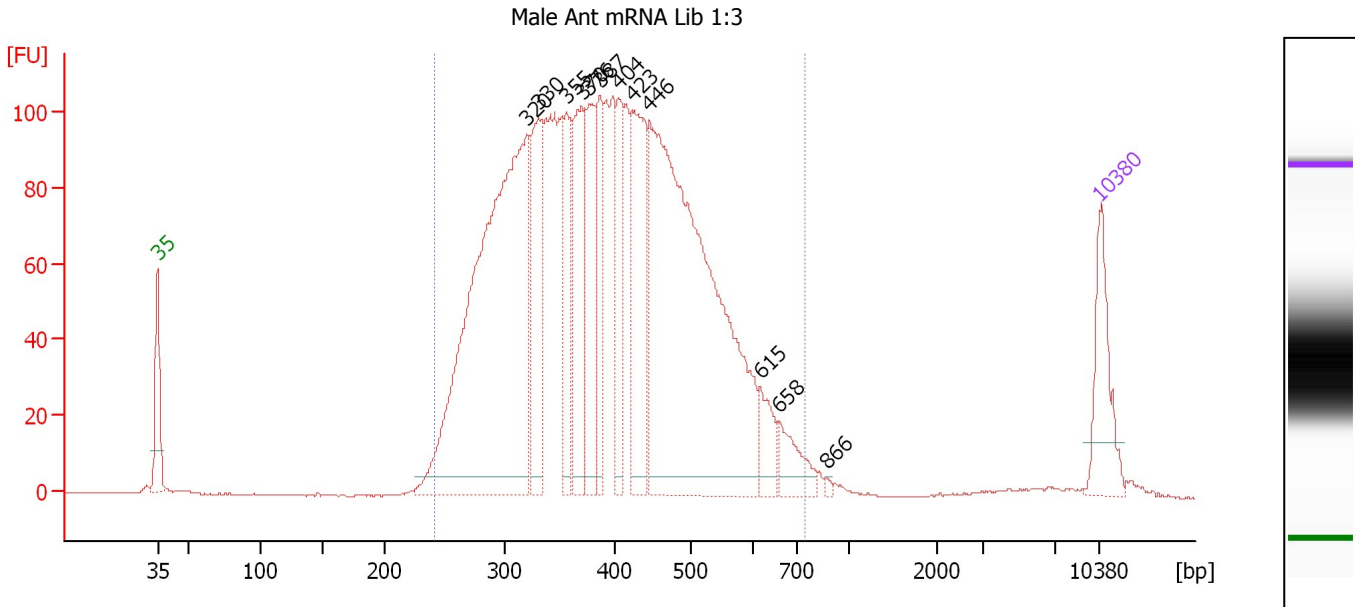
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Male Ant mRNA Lib 1:3

Number of peaks found: 12 Corr. Area 1: 2,651.1
 Noise: 0.2

Peak table for sample 1 : Male Ant mRNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	320	900.63	4,270.9	
3	330	177.82	816.2	
4	355	114.17	486.6	
5	370	159.43	652.4	
6	376	151.62	610.9	
7	387	102.50	401.1	
8	404	106.58	399.4	
9	423	202.20	724.0	
10	446	872.71	2,966.2	
11	615	48.29	119.0	
12	658	49.69	114.4	
13	866	3.64	6.4	
14	10,380	75.00	10.9	Upper Marker

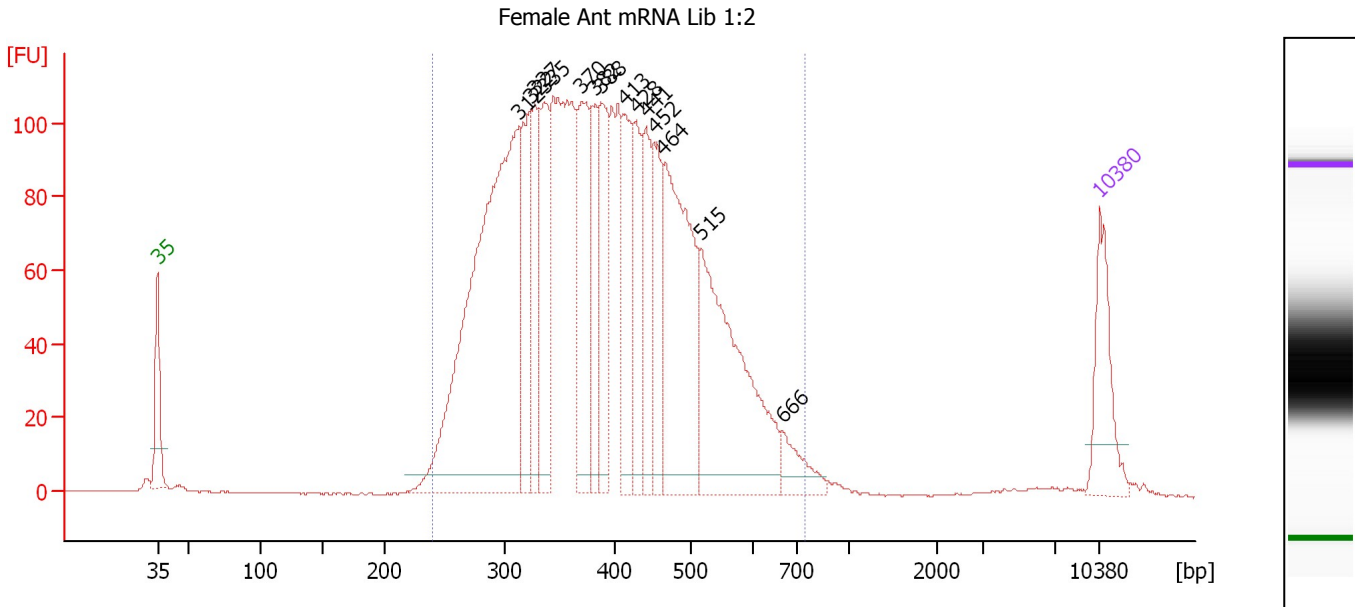
Region table for sample 1 : Male Ant mRNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
243	746	404	14,111.7	3,473.71	2,651.1	97	24.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Female Ant mRNA Lib 1:2

Number of peaks found: 14 Corr. Area 1: 2,740.4
 Noise: 0.2

Peak table for sample 2 : Female Ant mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	312	773.28	3,753.7	
3	322	152.33	715.9	
4	327	129.93	602.6	
5	335	153.66	694.3	
6	370	173.37	710.2	
7	382	107.20	425.4	
8	388	135.76	530.5	
9	413	133.61	489.8	
10	428	108.62	384.6	
11	441	124.31	427.1	
12	452	93.37	313.1	
13	464	317.44	1,036.4	
14	515	342.69	1,007.7	
15	666	41.27	94.0	
16	10,380	75.00	10.9	Upper Marker

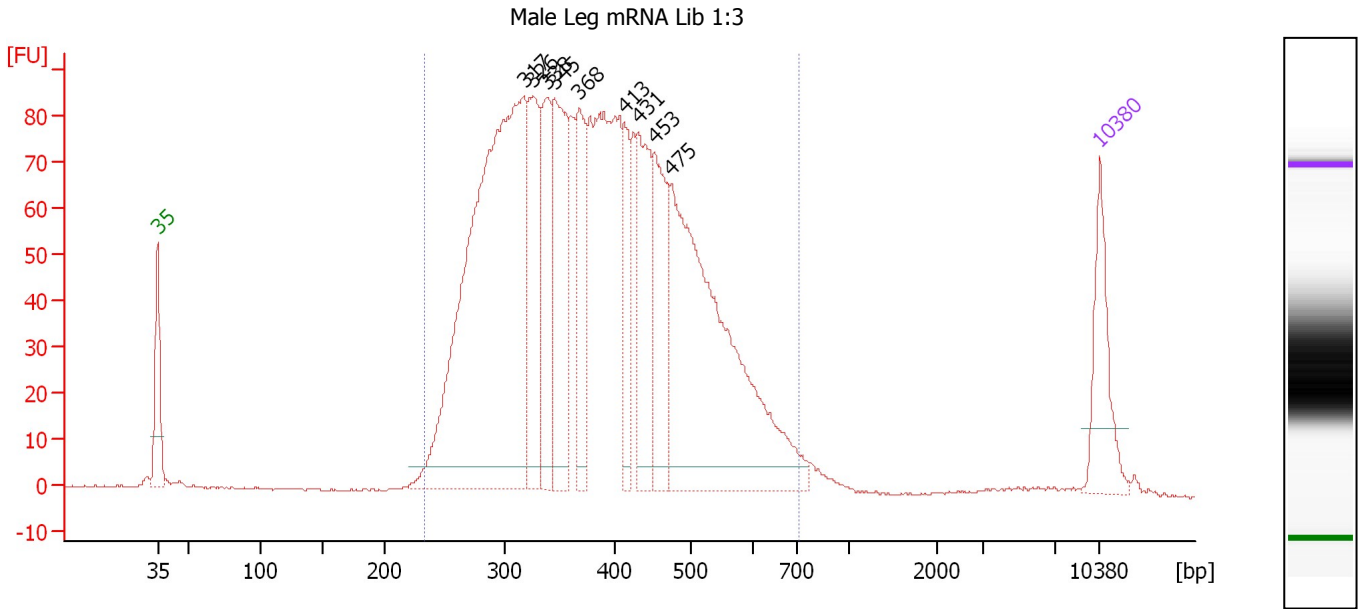
Region table for sample 2 : Female Ant mRNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
241	751	400	13,684.3	3,340.22	2,740.4	97	24.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Male Leg mRNA Lib 1:3

Number of peaks found: 9 Corr. Area 1: 2,196.9
 Noise: 0.2

Peak table for sample 3 : Male Leg mRNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	317	918.87	4,394.2	
3	326	181.29	843.6	
4	338	143.63	643.4	
5	345	208.37	914.2	
6	368	135.76	559.2	
7	413	82.37	302.4	
8	431	156.36	550.0	
9	453	148.18	496.0	
10	475	564.08	1,801.0	
11	10,380	75.00	10.9	Upper Marker

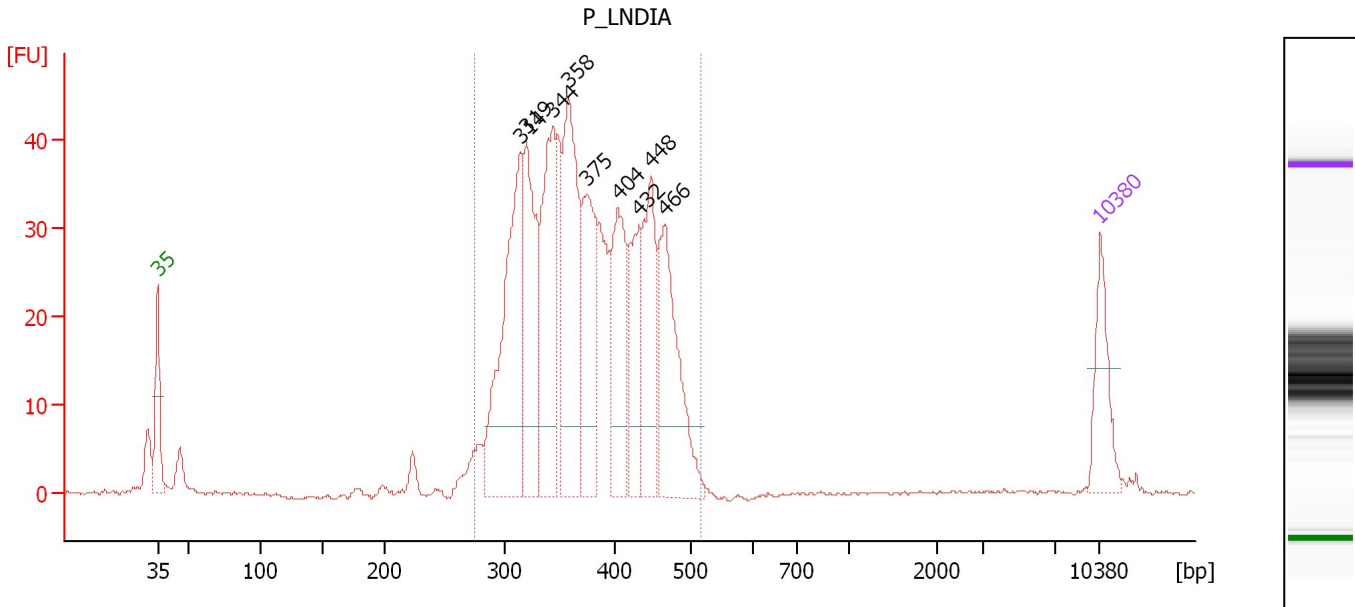
Region table for sample 3 : Male Leg mRNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
234	713	393	13,189.4	3,156.80	2,196.8	97	24.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : P_LNDIA

Height Threshold [FU] : 8

Overall Results for sample 4 : P_LNDIA

Number of peaks found: 9 Corr. Area 1: 630.9
 Noise: 0.2

Peak table for sample 4 : P_LNDIA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	314	382.71	1,848.9	
3	319	246.63	1,170.6	
4	344	268.62	1,183.8	
5	358	305.69	1,294.6	
6	375	203.42	822.9	
7	404	195.58	732.9	
8	432	128.24	449.6	
9	448	193.29	653.5	
10	466	246.10	800.8	
11	10,380	75.00	10.9	Upper Marker

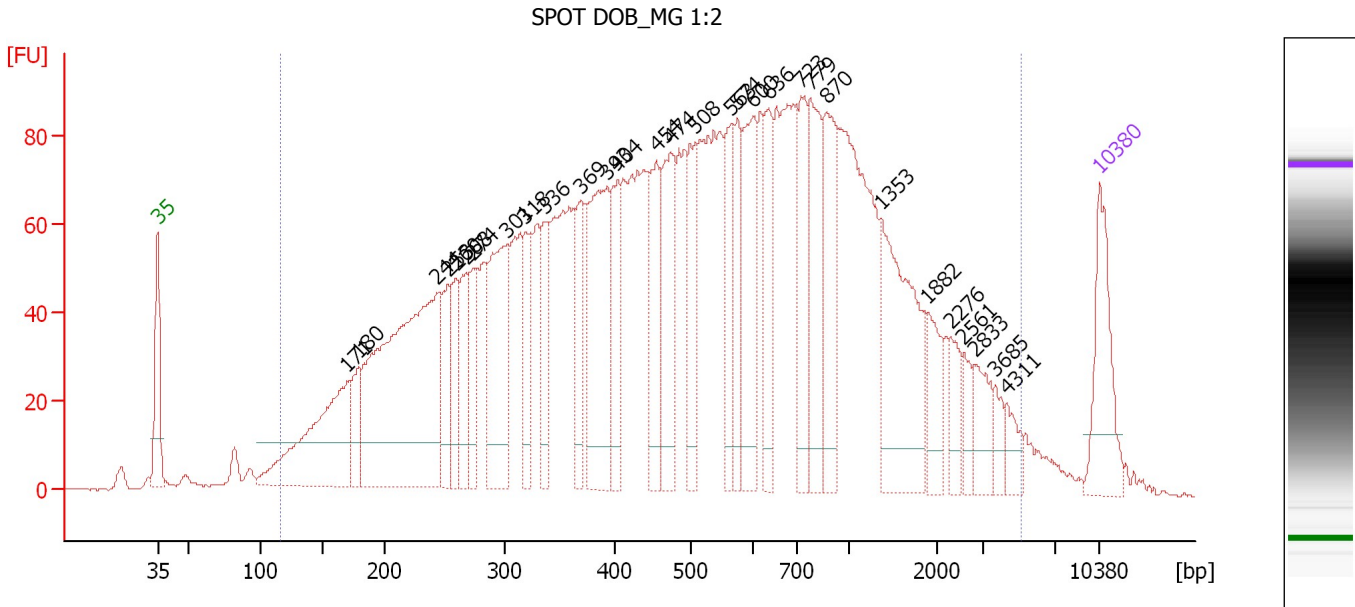
Region table for sample 4 : P_LNDIA

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
274	514	377	9,971.3	2,417.28	630.9	95	14.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : SPOT DOB MG 1:2

Height Threshold [FU] : 10

Overall Results for sample 5 : SPOT DOB MG 1:2

Number of peaks found: 30 Corr. Area 1: 3,912.6
 Noise: 0.2

Peak table for sample 5 : SPOT DOB MG 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	171	244.43	2,170.2	
3	180	57.68	485.0	
4	244	503.13	3,127.8	
5	253	82.32	493.2	
6	260	64.71	377.8	
7	268	69.82	395.2	
8	274	65.77	363.9	
9	301	169.25	852.0	
10	318	74.35	354.2	
11	336	68.93	311.1	
12	369	78.82	323.9	
13	393	200.72	773.5	
14	404	78.31	293.7	
15	454	100.73	335.9	
16	474	123.54	395.0	
17	508	86.47	258.1	
18	563	78.73	211.9	
19	574	67.66	178.7	
20	600	121.04	305.9	
21	636	83.18	198.3	
22	723	95.81	200.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad


Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : SPOT DOB MG 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	779	116.23	226.1	
24	870	112.15	195.3	
25	1,353	170.47	191.0	
26	1,882	43.00	34.6	
27	2,276	28.59	19.0	
28	2,561	20.33	12.0	
29	2,833	35.86	19.2	
30	3,685	17.35	7.1	
31	4,311	20.12	7.1	
32	▶ 10,380	75.00	10.9	Upper Marker

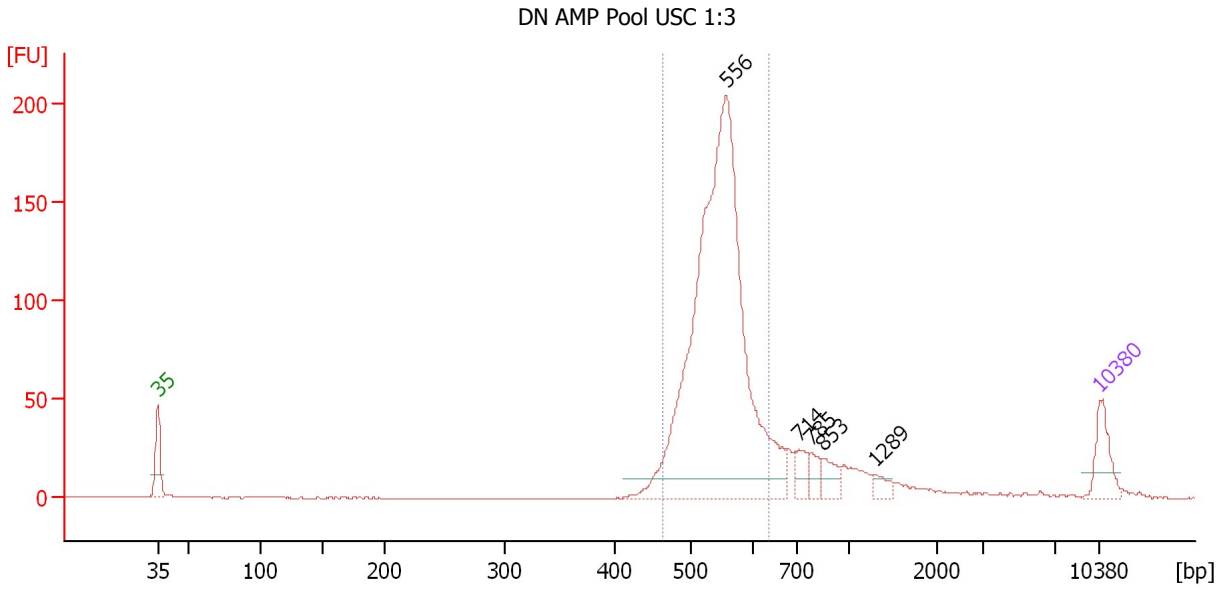
Region table for sample 5 : SPOT DOB MG 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
117	5,070	730	19,759.1	4,857.20	3,912.6	97	95.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : DN AMP Pool USC 1:3

Height Threshold [FU] : 10

Overall Results for sample 6 : DN AMP Pool USC 1:3

Number of peaks found: 5 Corr. Area 1: 941.8
 Noise: 0.2

Peak table for sample 6 : DN AMP Pool USC 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	556	1,815.95	4,945.9	
3	714	53.39	113.2	
4	785	36.13	69.7	
5	853	47.48	84.4	
6	1,289	23.77	27.9	
7	10,380	75.00	10.9	Upper Marker

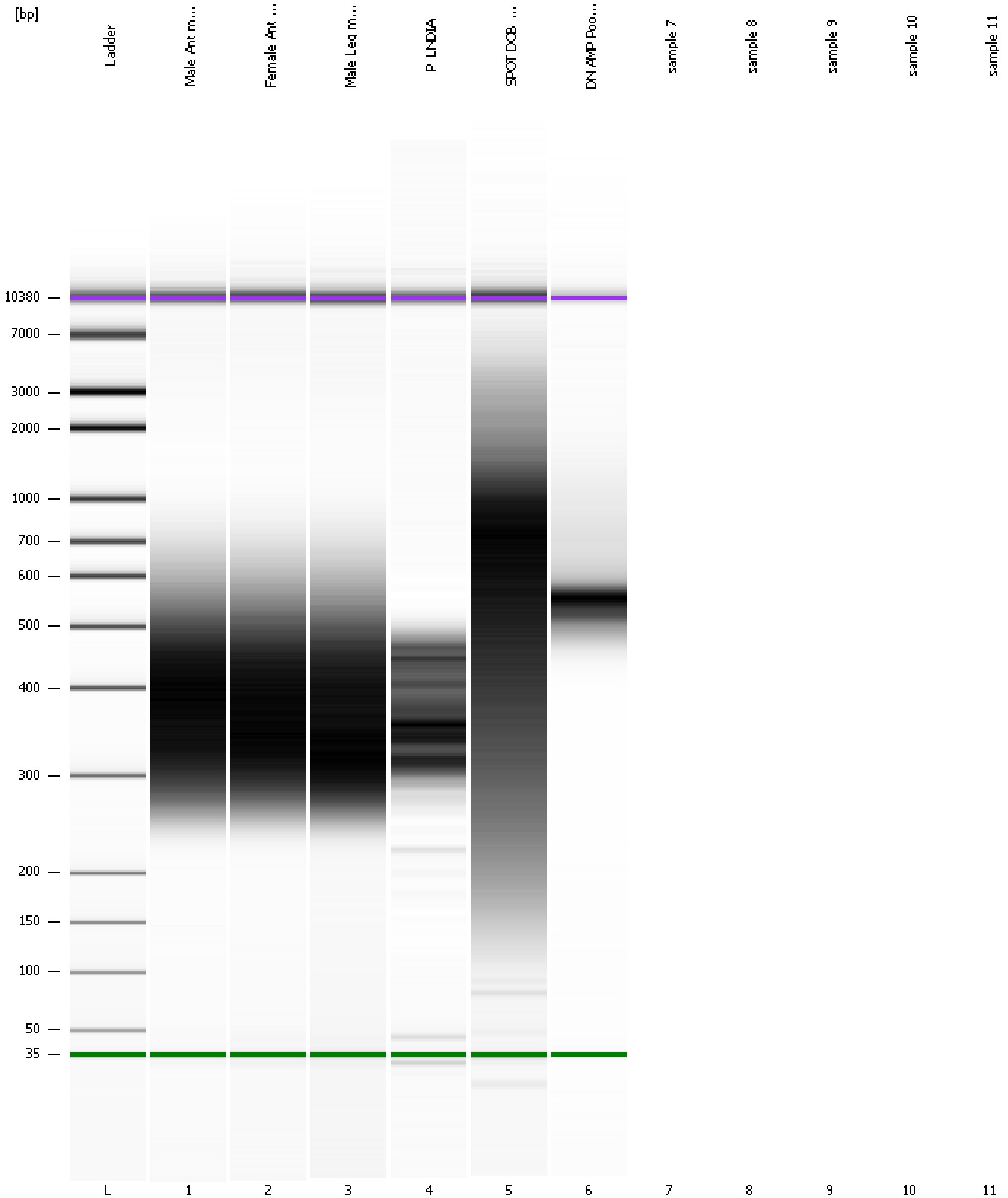
Region table for sample 6 : DN AMP Pool USC 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
464	634	543	4,827.1	1,721.44	941.8	76	6.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
Modified: 3/22/2013 4:27:57 PM

Gel Image

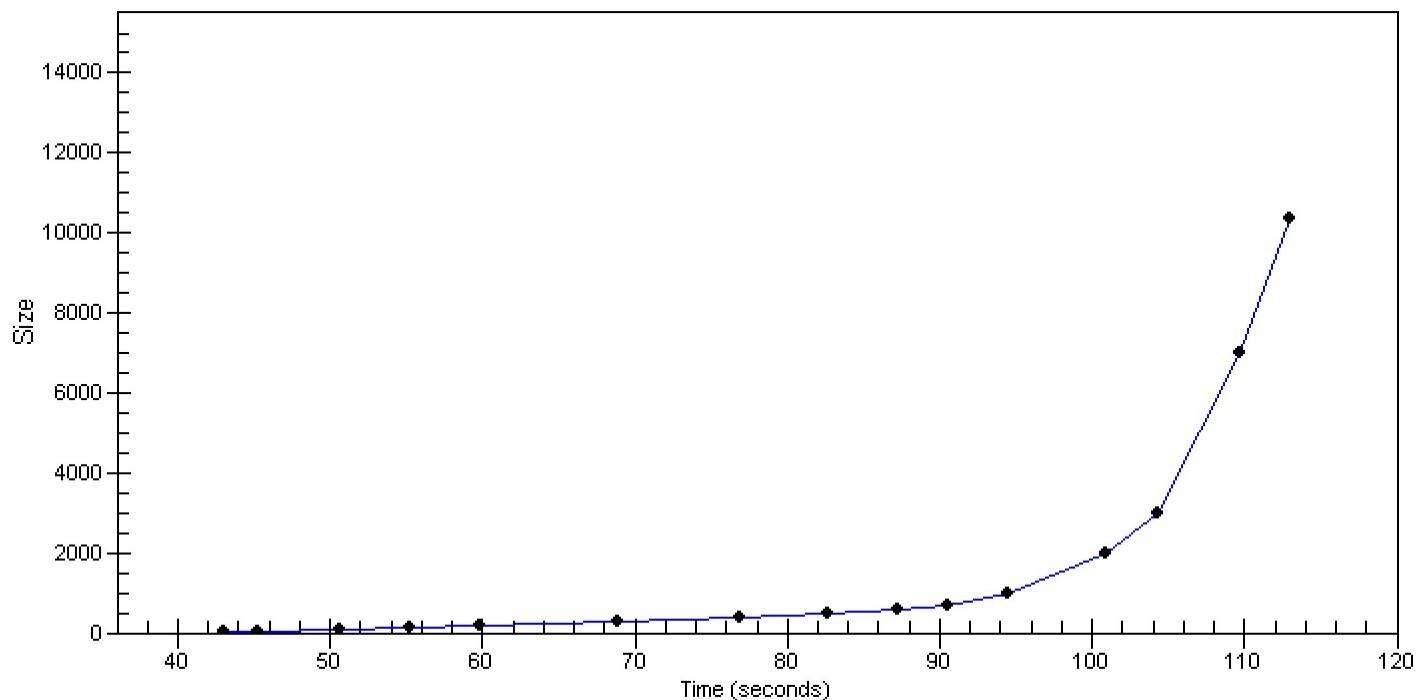


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
Modified: 3/22/2013 4:27:57 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
Modified: 3/22/2013 4:27:57 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad

Created: 3/21/2013 2:41:29 PM
 Modified: 3/22/2013 4:27:57 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		3/21/2013 3:08:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-21\2013-03-21_002.xad)		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/21/2013 2:41:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1