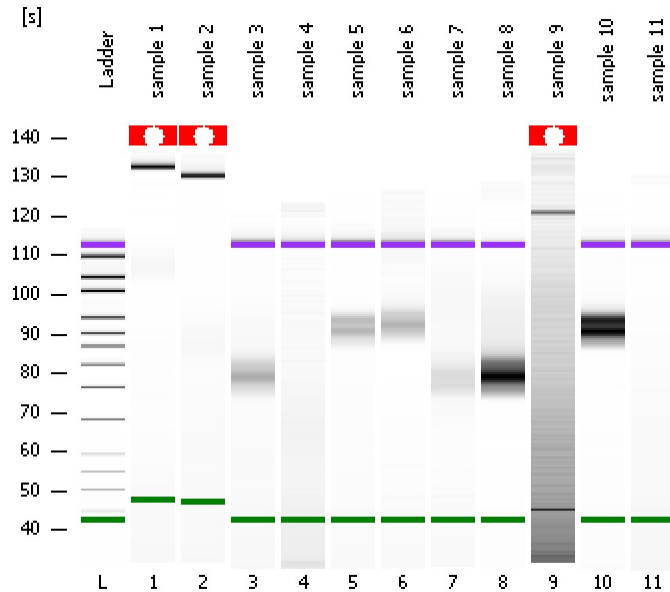Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad

Created: 5/31/2013 12:20:40 PM
Modified: 5/31/2013 1:02:00 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

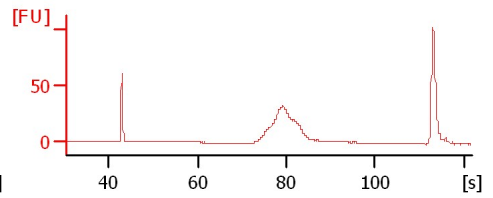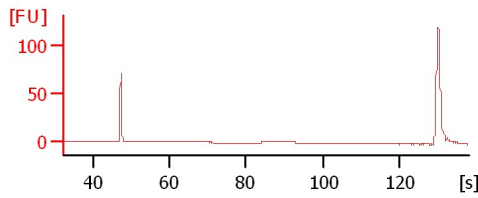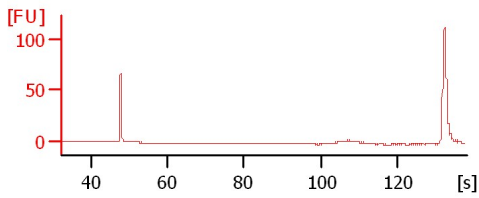Assay Comments: Copyright © 2003-2010 Agilent Technologies
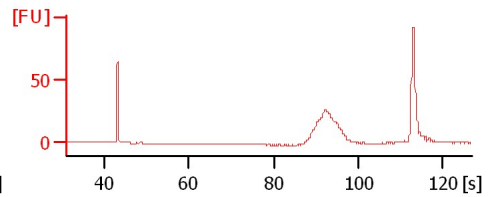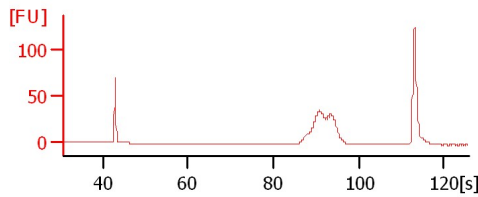
Chip Information:

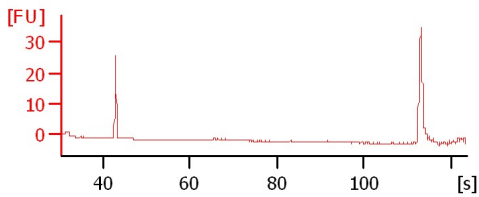Chip Lot #:

Reagent Kit Lot #:

Chip Comments:

sample 1

sample 2

sample 3

sample 4

sample 5

sample 6

sample 7
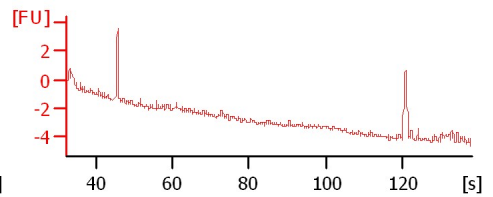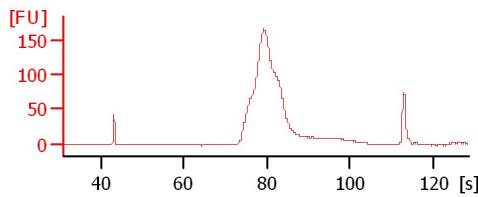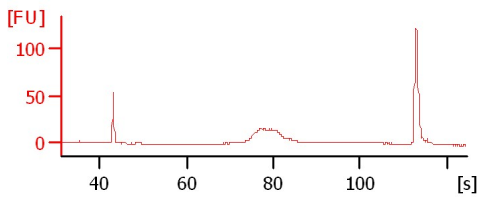
sample 8

sample 9
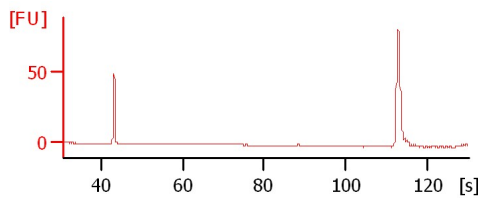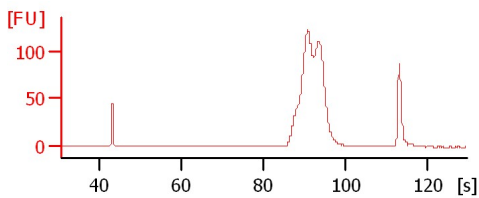
sample 10

sample 11

Assay Class: High Sensitivity DNA Assay   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐	✔			
sample 10		☐	✔			
sample 11		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 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   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary
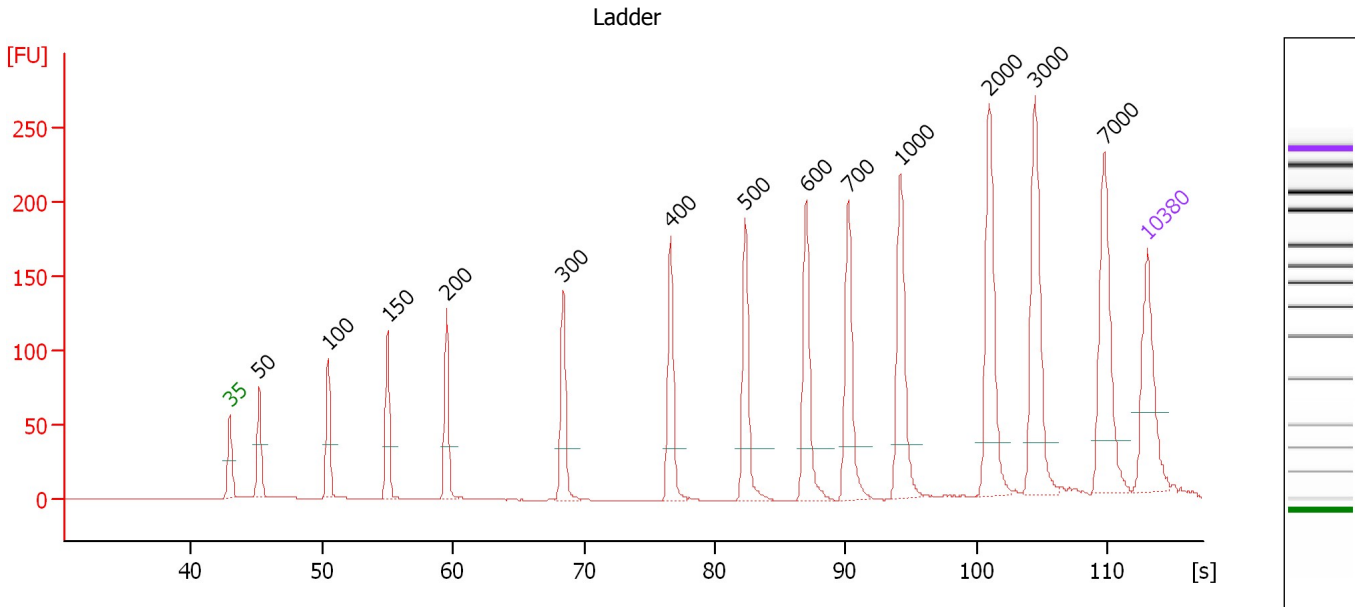
Overall Results for Ladder

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	L	50	150.00	4,545.5	Ladder Peak
3	L	100	150.00	2,272.7	Ladder Peak
4	L	150	150.00	1,515.2	Ladder Peak
5	L	200	150.00	1,136.4	Ladder Peak
6	L	300	150.00	757.6	Ladder Peak
7	L	400	150.00	568.2	Ladder Peak
8	L	500	150.00	454.5	Ladder Peak
9	L	600	150.00	378.8	Ladder Peak
10	L	700	150.00	324.7	Ladder Peak
11	L	1,000	150.00	227.3	Ladder Peak
12	L	2,000	150.00	113.6	Ladder Peak
13	L	3,000	150.00	75.8	Ladder Peak
14	L	7,000	150.00	32.5	Ladder Peak
15	▶	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...
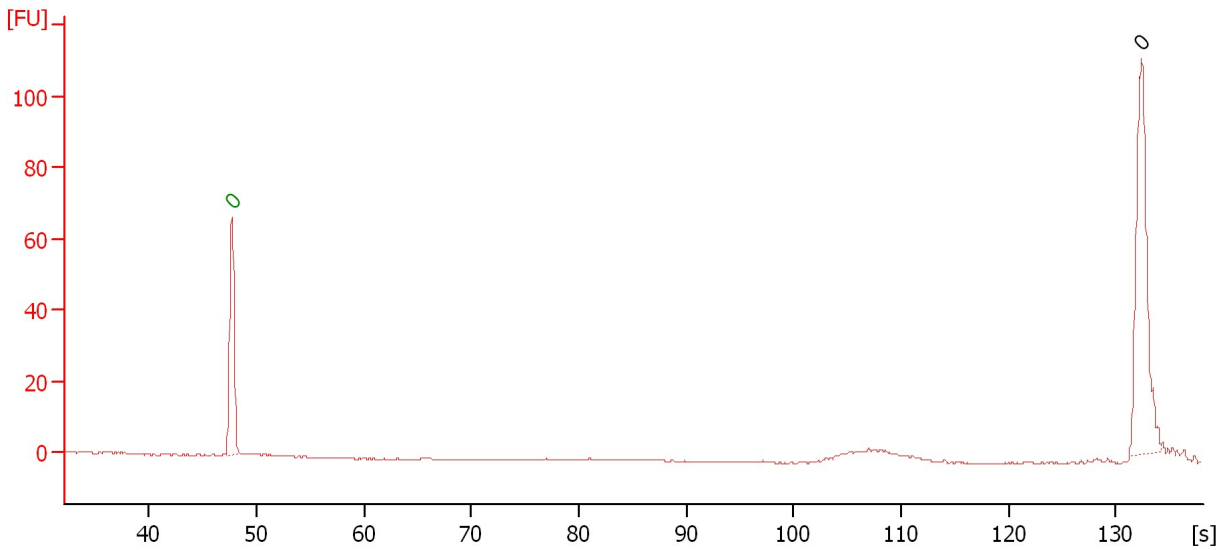
sample 1

Overall Results for sample 1 :   sample 1

Number of peaks found: 1   Noise: 0.2

Peak table for sample 1 :   sample 1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	0	0.00	0.0	Lower Marker
2		0	0.00	0.0	

Electropherogram Summary Continued ...
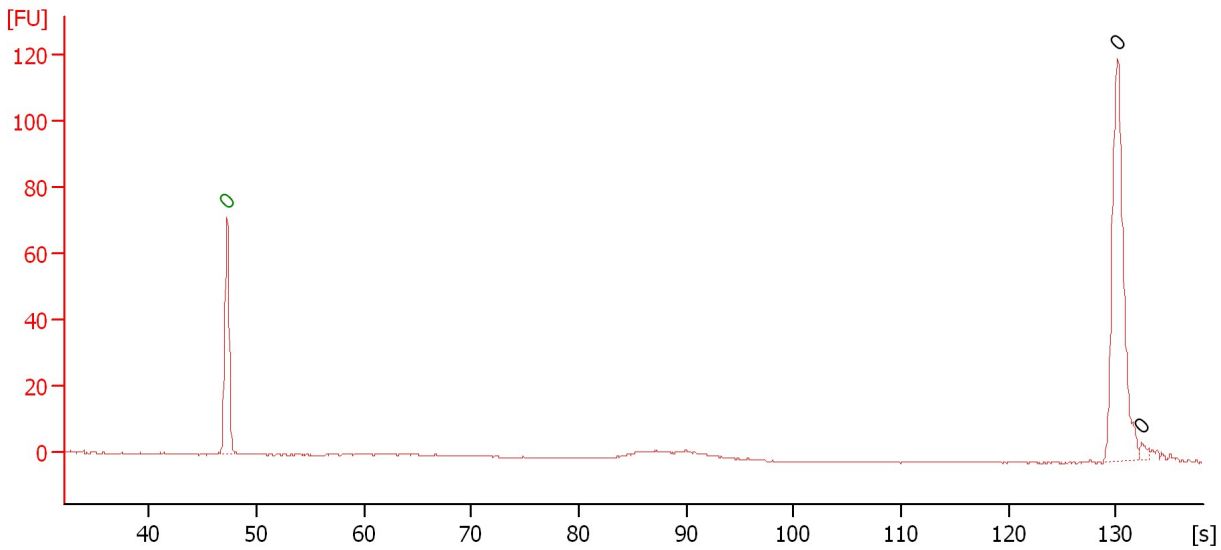
sample 2

Overall Results for sample 2 :   sample 2

Number of peaks found: 2   Noise: 0.1

Peak table for sample 2 :   sample 2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	0	0.00	0.0	Lower Marker
2		0	0.00	0.0	
3		0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad

Created: 5/31/2013 12:20:40 PM
Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...
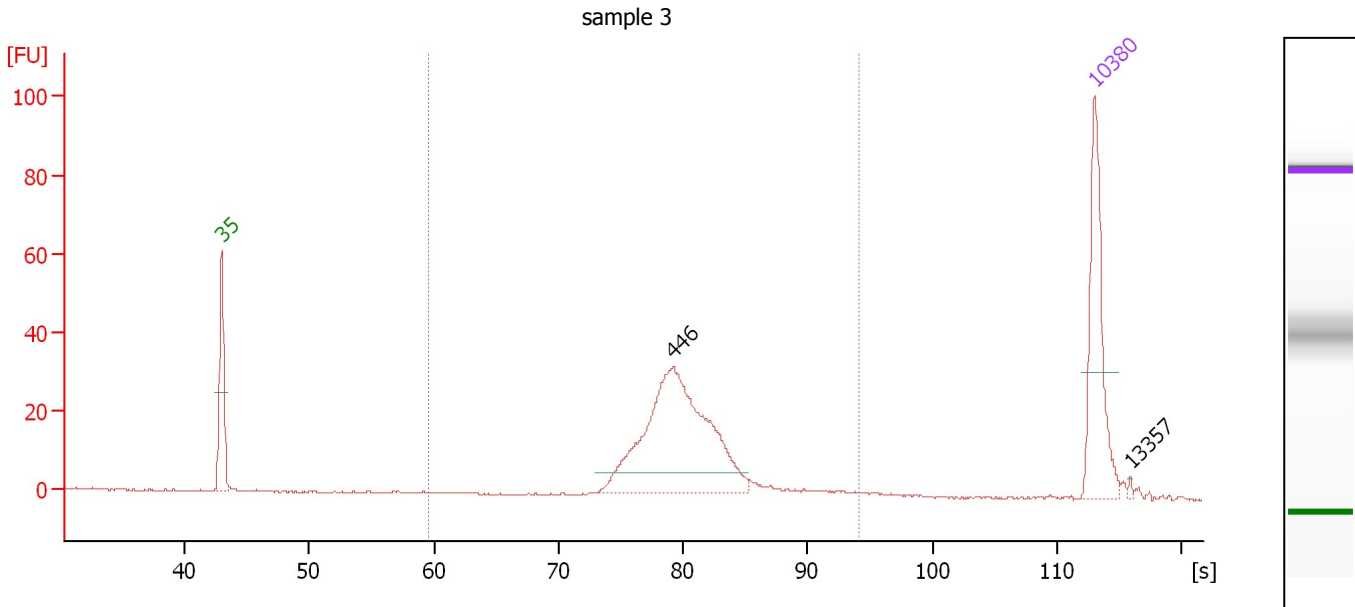
sample 3

Overall Results for sample 3 :   sample 3

Number of peaks found:	2		Corr. Area 1:	268.7
Noise:	0.1			

Peak table for sample 3 :   sample 3

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		446	247.23	840.5	
3	▶	10,380	75.00	10.9	Upper Marker
4		13,357	0.00	0.0	

Region table for sample 3 :   sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	471	898.1	271.41	268.7	94	17.5	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad

Created: 5/31/2013 12:20:40 PM
Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...

sample 4

Overall Results for sample 4 :   sample 4

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.1		

Peak table for sample 4 :   sample 4

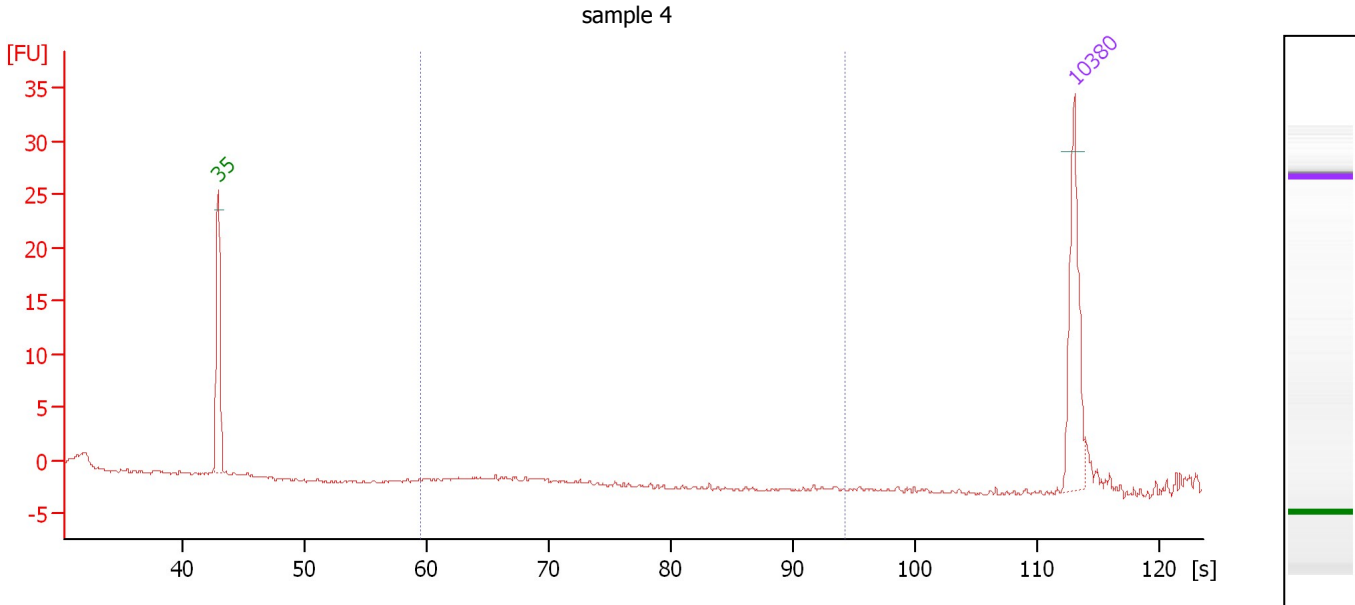| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 4 :   sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	🟦

Assay Class:　　　High Sensitivity DNA Assay　　　　　　　　　　　　　Created:　5/31/2013 12:20:40 PM
Data Path:　　　　C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad　　Modified:　5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...
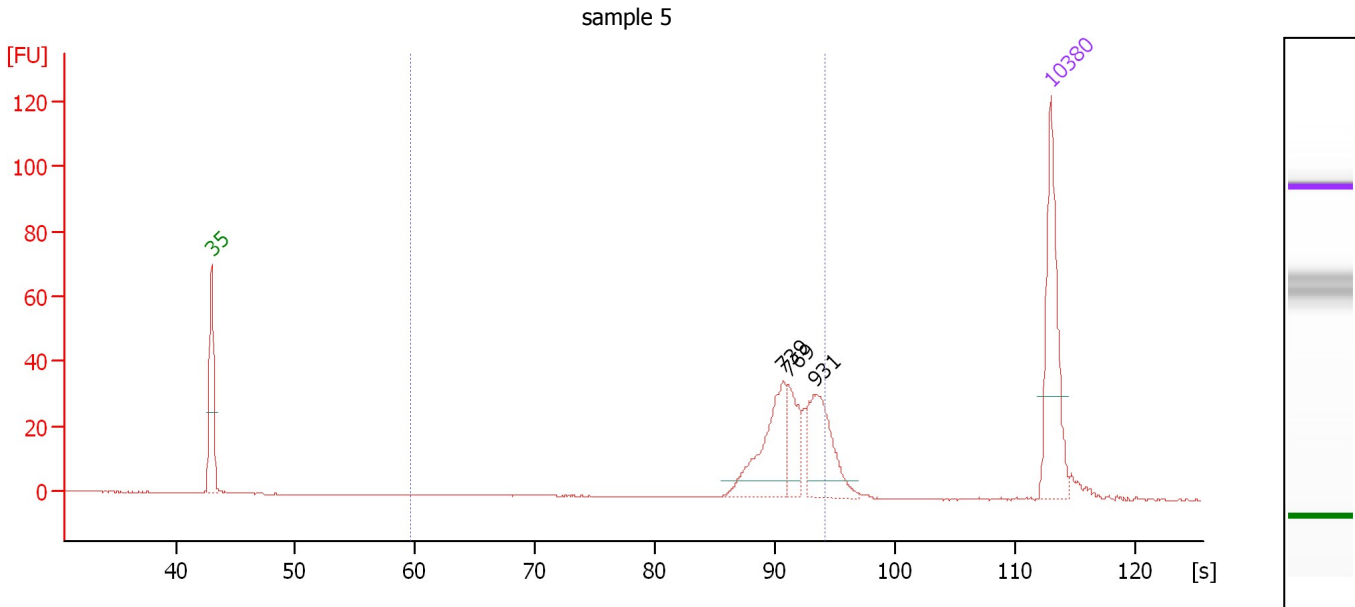
sample 5

Overall Results for sample 5 :　　sample 5

Number of peaks found:	3	Corr. Area 1:	194.0
Noise:	0.1		

Peak table for sample 5　:　　sample 5

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		739	76.29	156.5	
3		769	34.82	68.6	
4		931	65.93	107.3	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 5 :　　sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	789	312.0	159.42	194.0	81	14.4	■

Electropherogram Summary Continued ...

sample 6

Overall Results for sample 6 :   sample 6

Number of peaks found:	3	Corr. Area 1:	114.4
Noise:	0.1		

Peak table for sample 6 :   sample 6

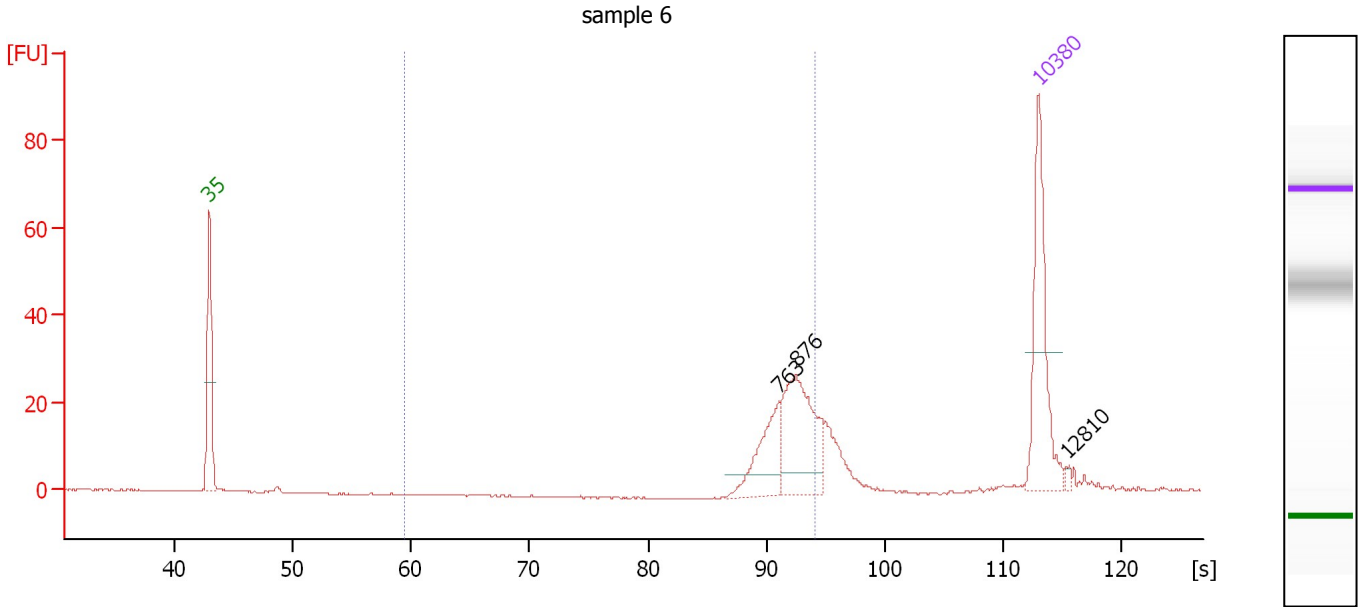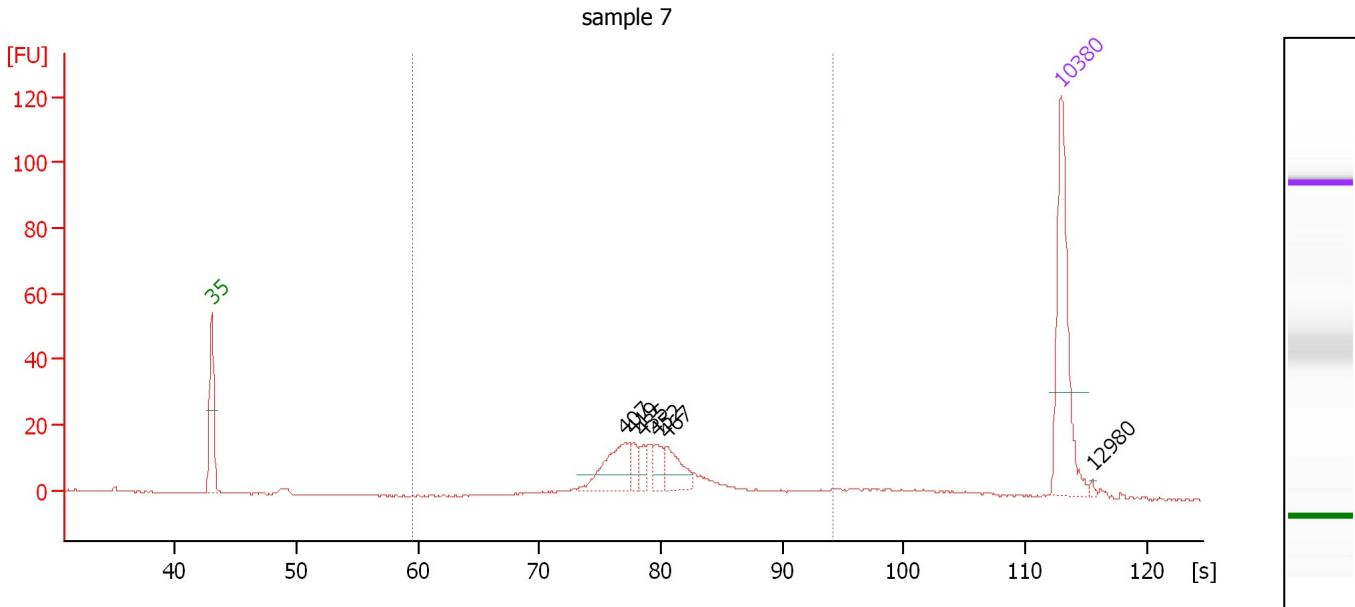| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		763	51.98	103.2	
3		876	91.10	157.5	
4	▶	10,380	75.00	10.9	Upper Marker
5		12,810	0.00	0.0	

Region table for sample 6 :   sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	820	222.7	119.12	114.4	68	12.3	■

Electropherogram Summary Continued ...

sample 7

Overall Results for sample 7 :   sample 7

Number of peaks found:	6	Corr. Area 1:	181.1
Noise:	0.1		

Peak table for sample 7 :   sample 7

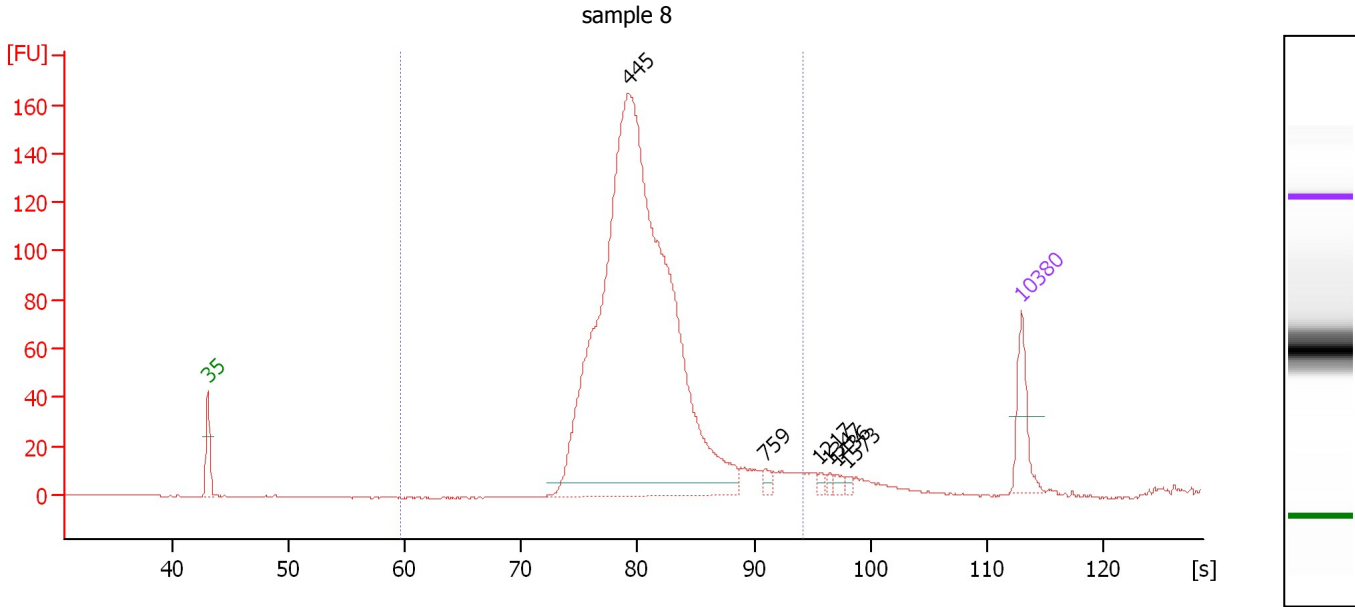| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		407	43.31	161.4	
3		419	9.89	35.7	
4		435	9.34	32.6	
5		452	14.96	50.1	
6		467	23.75	77.0	
7	▶	10,380	75.00	10.9	Upper Marker
8		12,980	0.00	0.0	

Region table for sample 7 :   sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	473	554.1	164.64	181.1	83	23.5	■

Electropherogram Summary Continued ...

sample 8

Overall Results for sample 8 :   sample 8

Number of peaks found:	6	Corr. Area 1:	1,409.6
Noise:	0.1		

Peak table for sample 8 :   sample 8

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		445	2,305.28	7,852.7	
3		759	15.15	30.3	
4		1,217	8.53	10.6	
5		1,347	7.51	8.4	
6		1,436	9.80	10.3	
7		1,573	6.64	6.4	
8	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 8 :   sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	476	7,573.3	2,308.17	1,409.6	96	18.6	■

Electropherogram Summary Continued ...
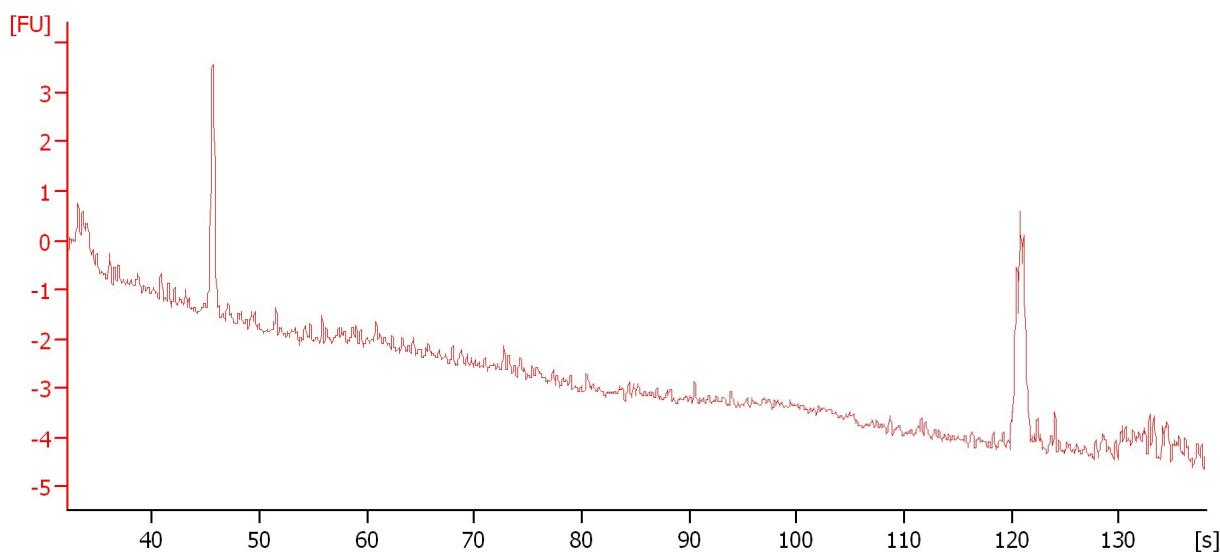
sample 9

Overall Results for sample 9 :   sample 9
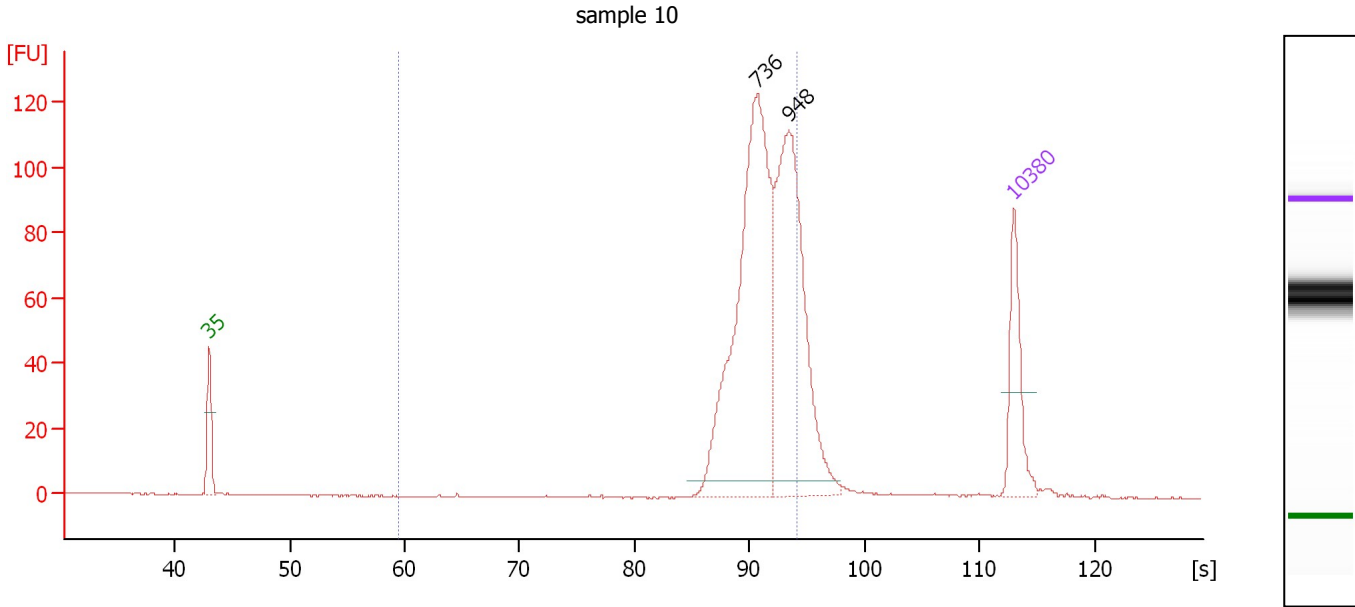
Noise: 0.1

Assay Class: High Sensitivity DNA Assay   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...

sample 10

Overall Results for sample 10 :   sample 10

Number of peaks found:	2	Corr. Area 1:	688.7
Noise:	0.1		

Peak table for sample 10 :   sample 10

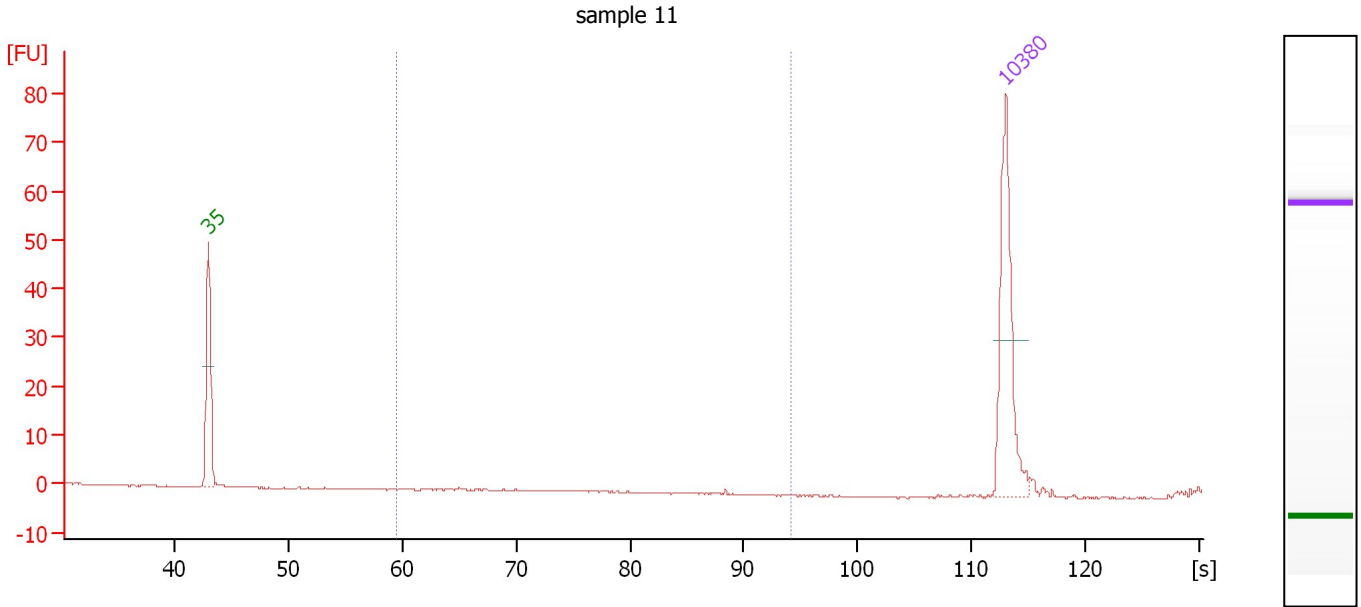| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		736	541.62	1,114.9	
3		948	375.94	601.0	
4	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 10 :   sample 10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	786	1,543.1	785.38	688.7	83	14.7	■

Assay Class: High Sensitivity DNA Assay   Created: 5/31/2013 12:20:40 PM
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad   Modified: 5/31/2013 1:02:00 PM

Electropherogram Summary Continued ...

sample 11

Overall Results for sample 11 :   sample 11

Number of peaks found: 0   Corr. Area 1:   0.0
Noise: 0.1

Peak table for sample 11 :   sample 11

| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 11 :   sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad

Created: 5/31/2013 12:20:40 PM
Modified: 5/31/2013 1:02:00 PM

Gel Image
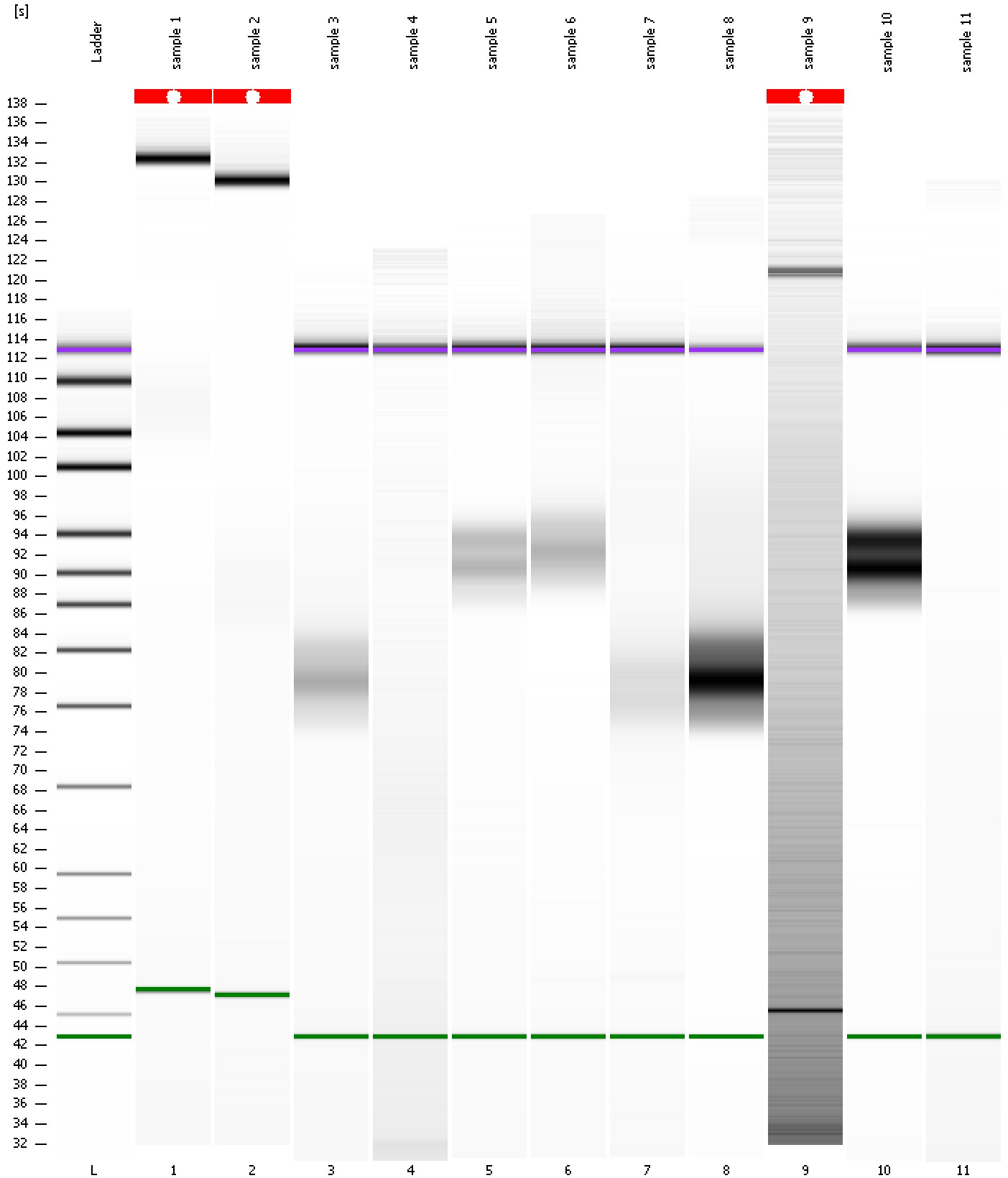
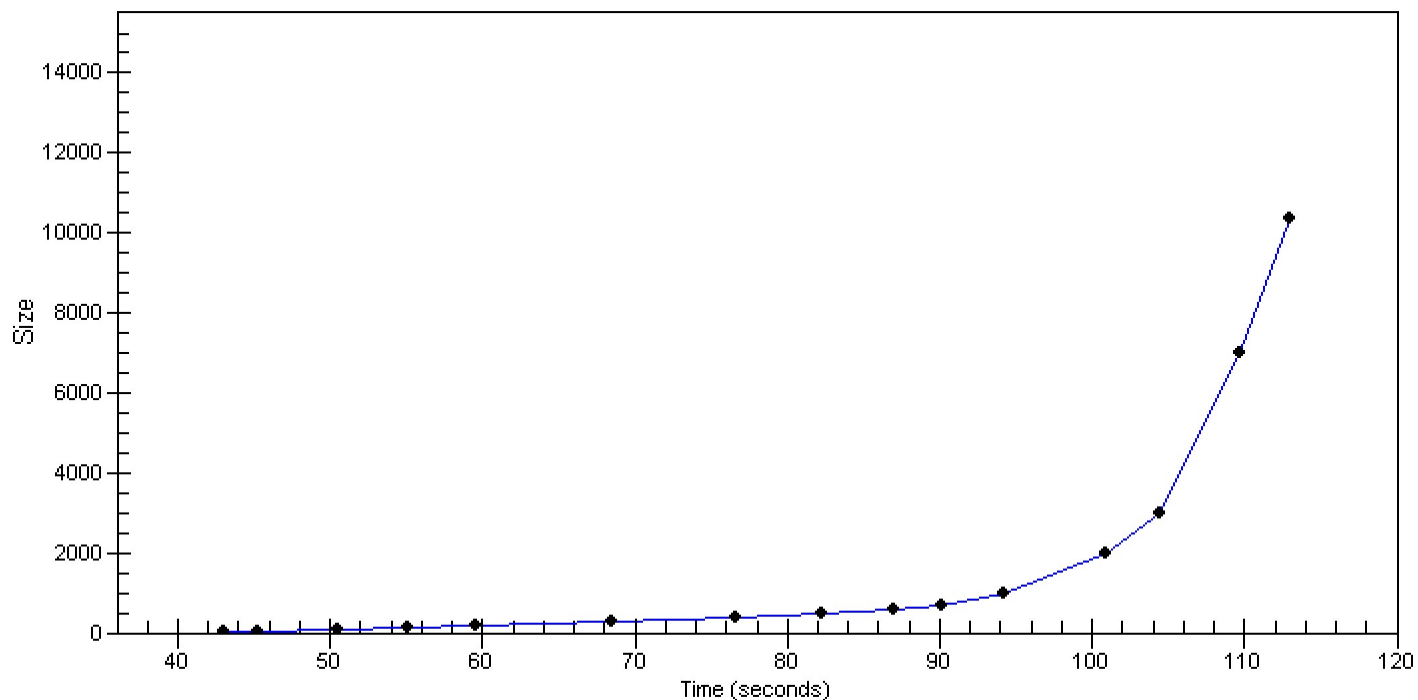|			
Assay Class:	High Sensitivity DNA Assay	Created:	5/31/2013 12:20:40 PM
Data Path:	C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad	Modified:	5/31/2013 1:02:00 PM

Curves

Standard Curve

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad

Created: 5/31/2013 12:20:40 PM
Modified: 5/31/2013 1:02:00 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		5/31/2013 1:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-31\2013-05-31_001.xad)		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/31/2013 12:20:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1