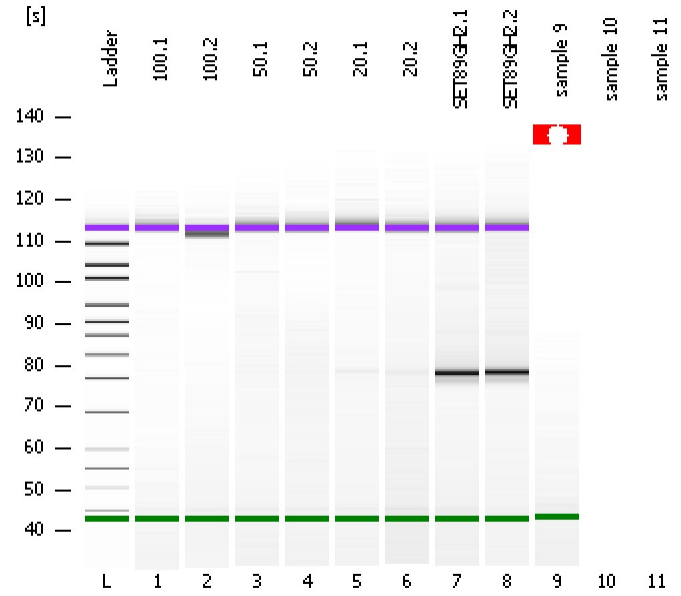
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

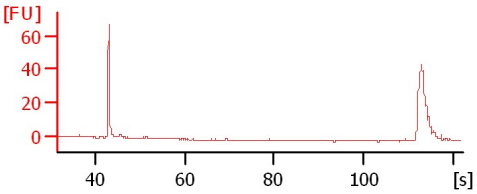
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

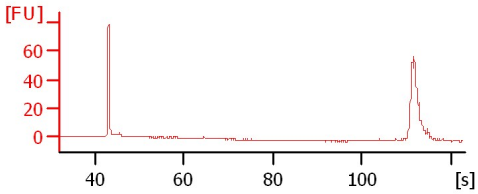
Chip Information:

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

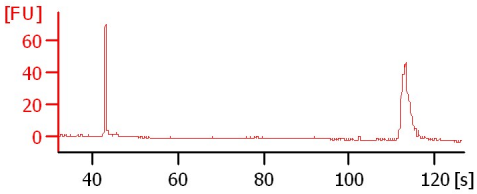
100.1



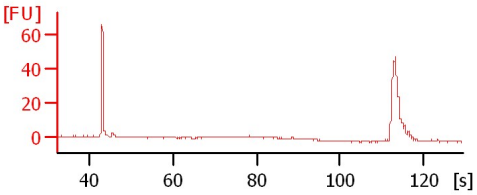
100.2



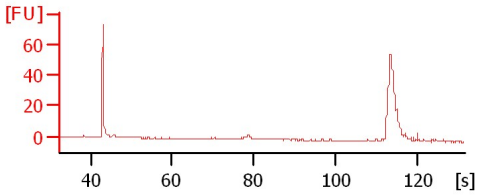
50.1



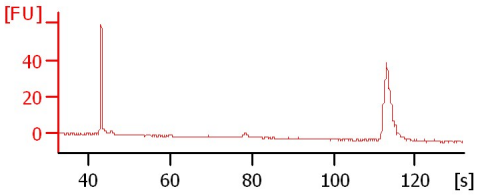
50.2



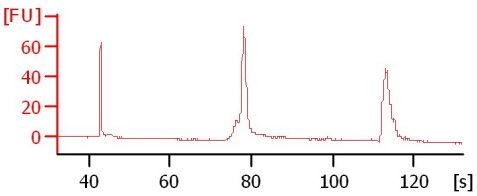
20.1



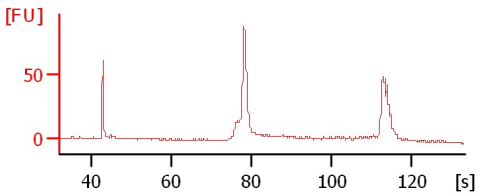
20.2



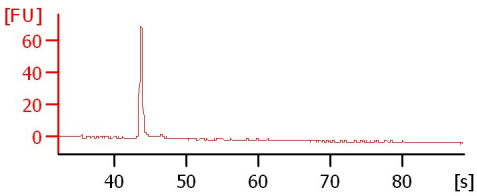
SET89GH2.1



SET89GH2.2



sample 9



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
100.1		☐	✓			
100.2		☐	✓			
50.1		☐	✓			
50.2		☐	✓			
20.1		☐	✓			
20.2		☐	✓			
SET89GH2.1		☐	✓			
SET89GH2.2		☐	✓			
sample 9		☐	✗			
sample 10		☐	✗			
sample 11		☐	✗			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 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

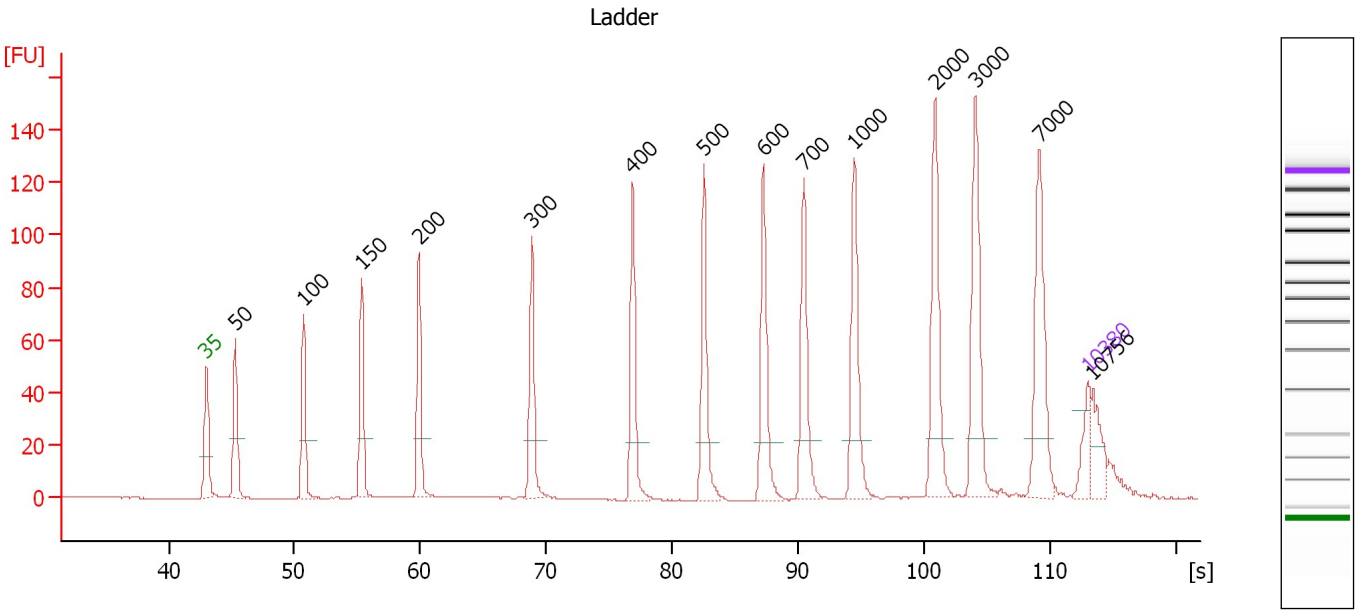
Ladder

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\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

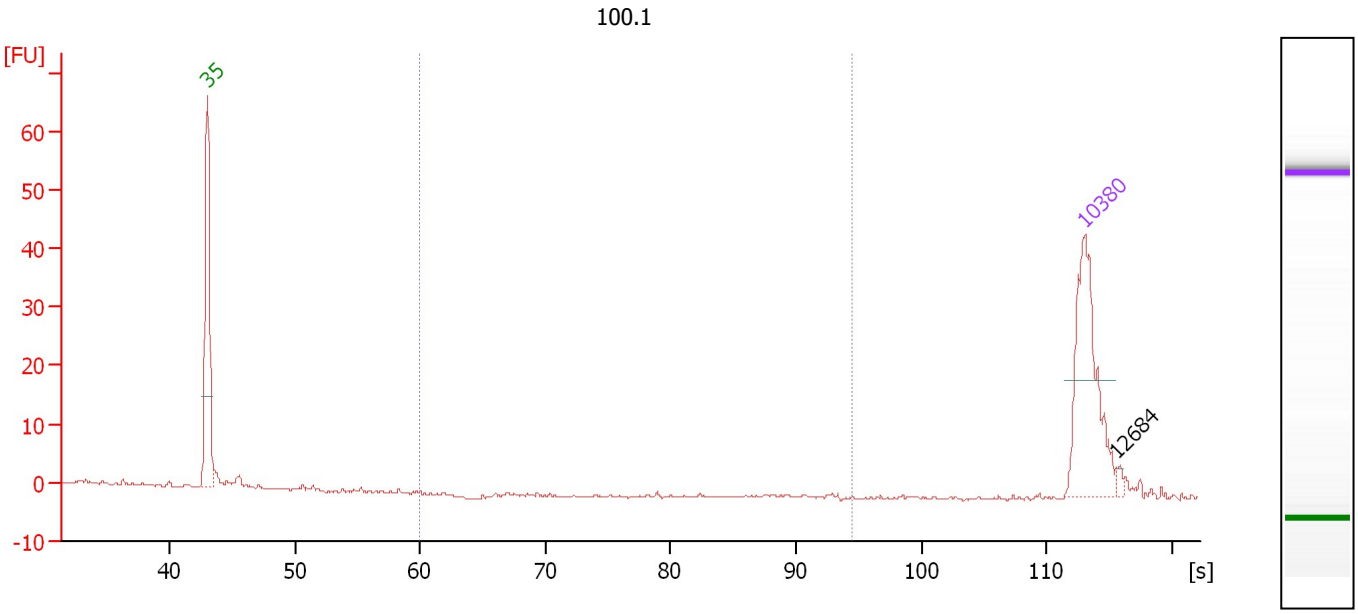
Peak table for Ladder

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
16		10,756	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 100.1

Number of peaks found:	1	Corr. Area 1:	0.0
Noise:	0.2		

Peak table for sample 1 : 100.1

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
3	12,684	0.00	0.0	

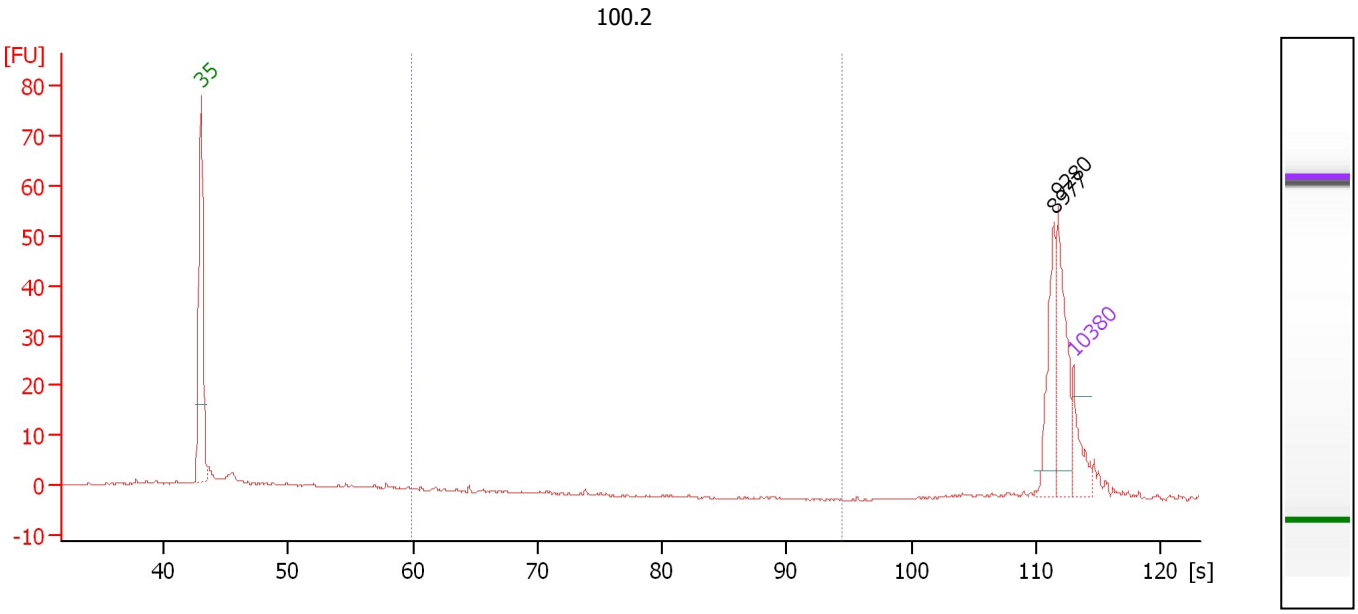
Region table for sample 1 : 100.1

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 100.2

Number of peaks found:	2	Corr. Area 1:	0.4
Noise:	0.2		

Peak table for sample 2 : 100.2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		8,977	164.82	27.8	
3		9,280	201.29	32.9	
4	▶	10,380	75.00	10.9	Upper Marker

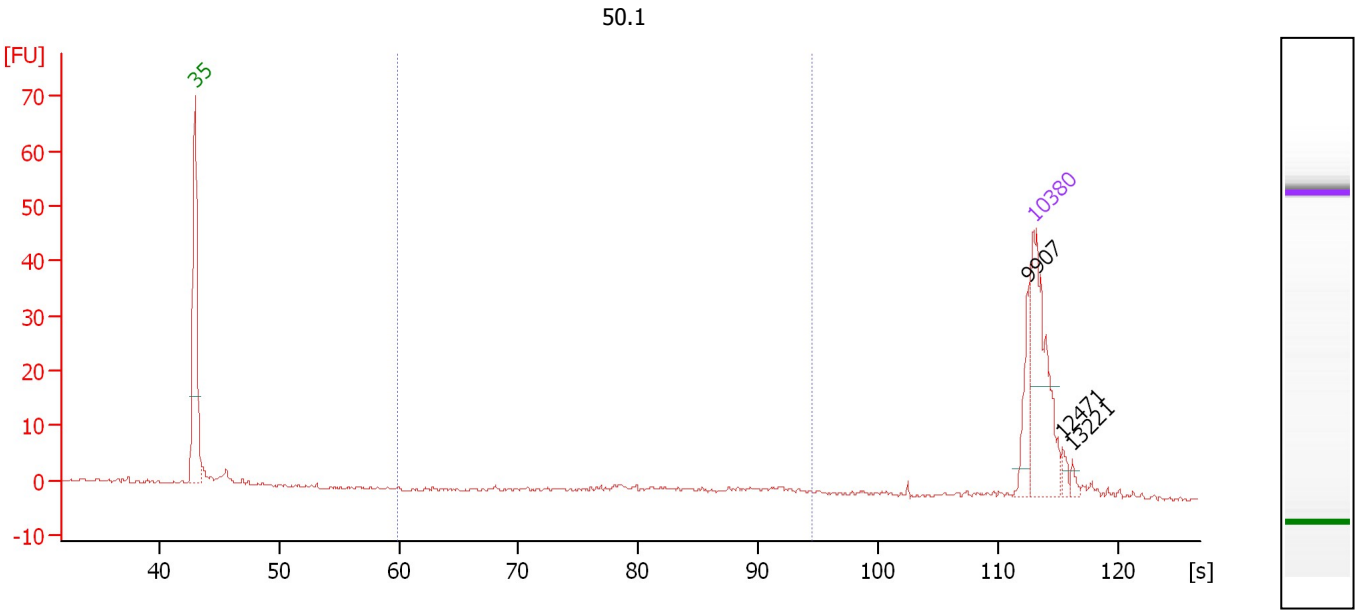
Region table for sample 2 : 100.2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	20.1	245	3.16	1,000	0.4	0	17.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 50.1

Number of peaks found:	3	Corr. Area 1:	5.0
Noise:	0.2		

Peak table for sample 3 : 50.1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		9,907	21.97	3.4	
3	▶	10,380	75.00	10.9	Upper Marker
4		12,471	0.00	0.0	
5		13,221	0.00	0.0	

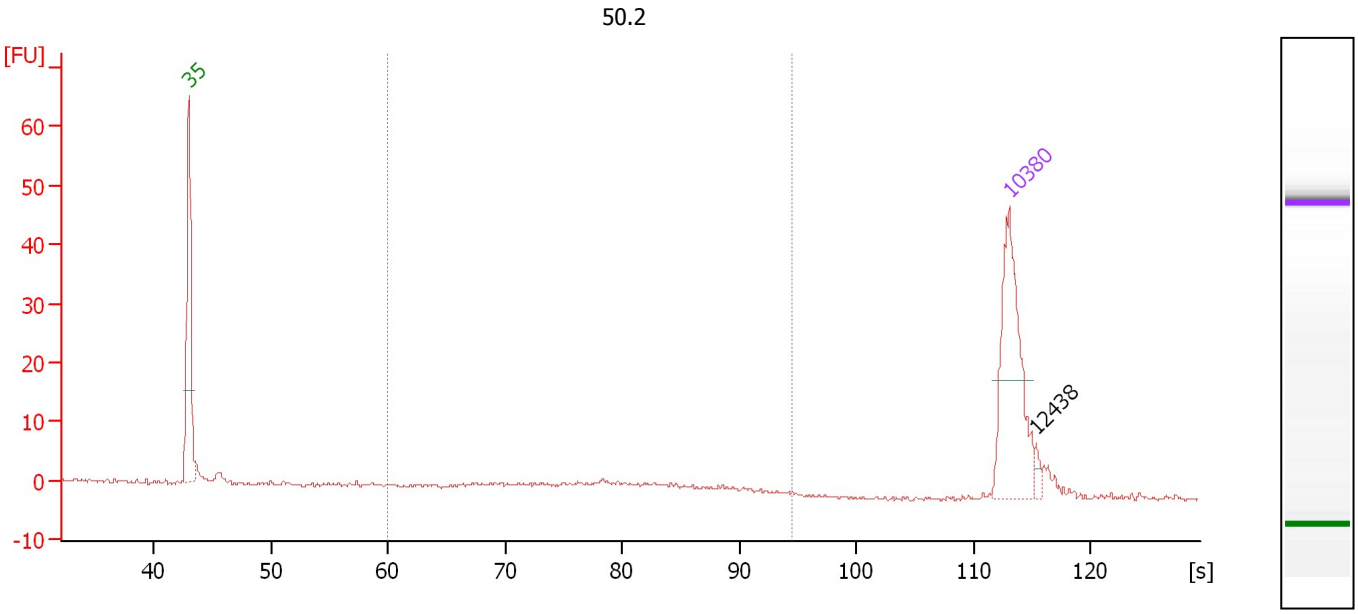
Region table for sample 3 : 50.1

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	19.4	634	7.37	1,000	5.0	11	25.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 50.2

Number of peaks found:	1	Corr. Area 1:	29.5
Noise:	0.3		

Peak table for sample 4 : 50.2

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
3	12,438	0.00	0.0	

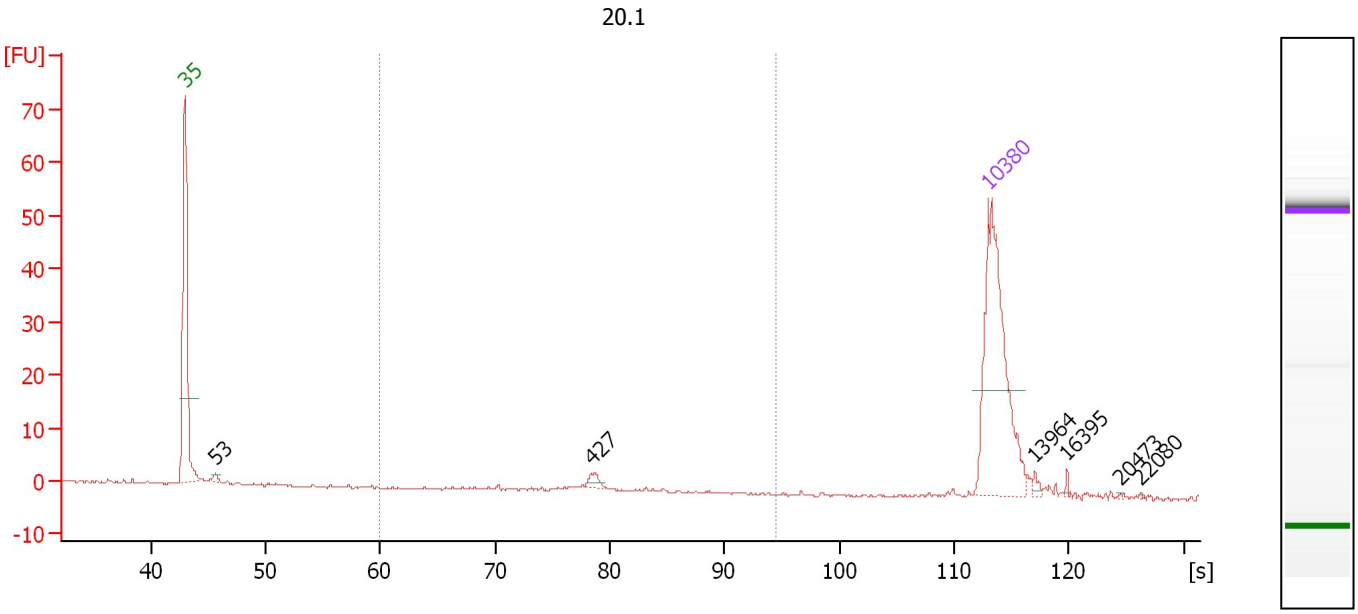
Region table for sample 4 : 50.2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	149.0	445	38.63	1,000	29.5	52	29.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : 20.1

Height Threshold [FU] : 1

Overall Results for sample 5 : 20.1

Number of peaks found:	6	Corr. Area 1:	5.2
Noise:	0.2		

Peak table for sample 5 : 20.1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	2.06	58.5	
3	427	3.93	14.0	
4	10,380	75.00	10.9	Upper Marker
5	13,964	0.00	0.0	
6	16,395	0.00	0.0	
7	20,473	0.00	0.0	
8	22,080	0.00	0.0	

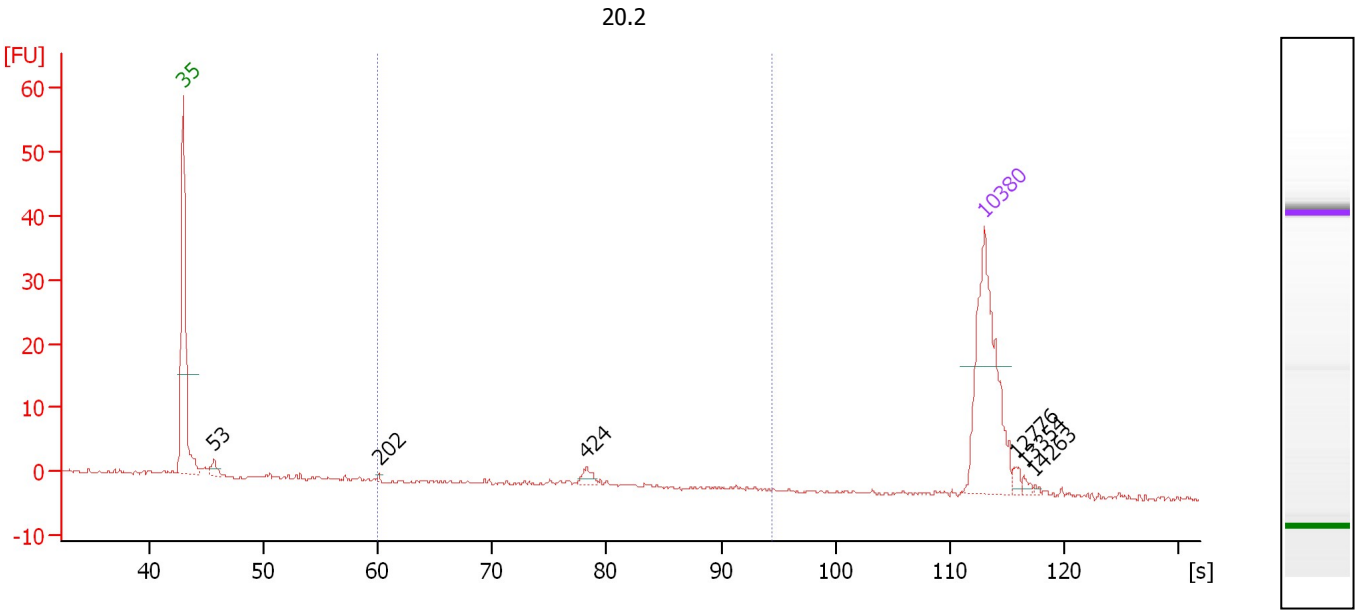
Region table for sample 5 : 20.1

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	19.2	428	5.40	1,000	5.2	29	6.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : 20.2

Height Threshold [FU] : 1

Overall Results for sample 6 : 20.2

Number of peaks found:	6	Corr. Area 1:	7.1
Noise:	0.2		

Peak table for sample 6 : 20.2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	8.03	227.7	
3	202	1.17	8.8	
4	424	5.39	19.2	
5	10,380	75.00	10.9	Upper Marker
6	12,776	0.00	0.0	
7	13,354	0.00	0.0	
8	14,263	0.00	0.0	

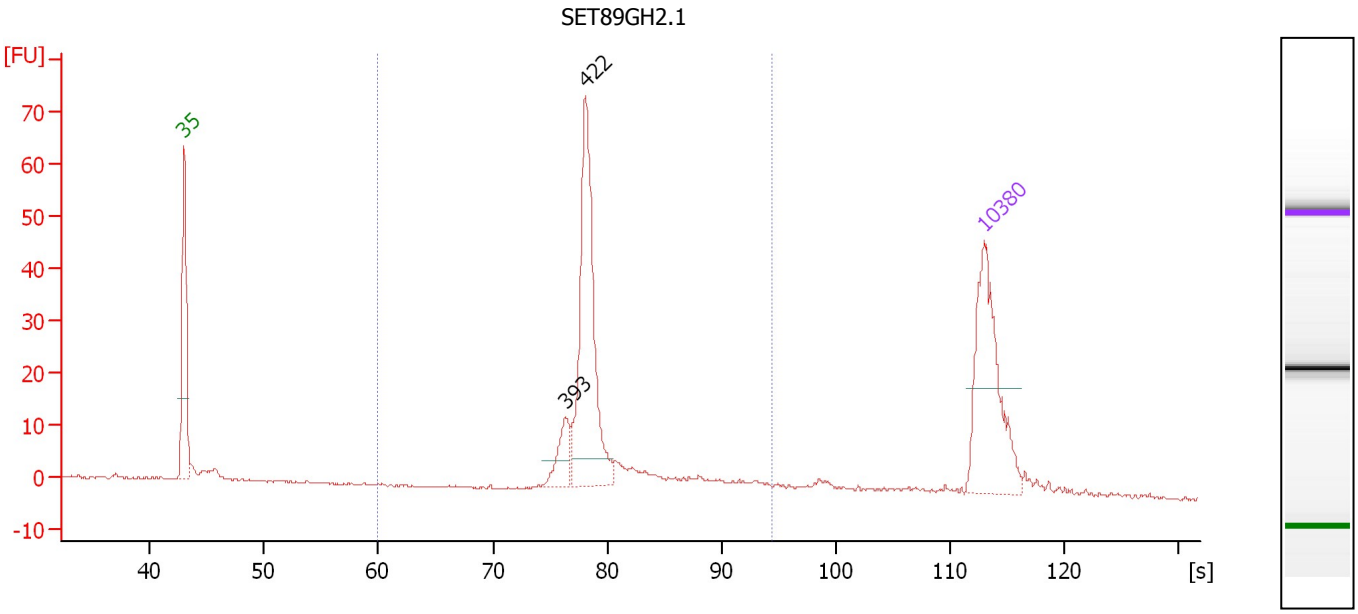
Region table for sample 6 : 20.2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	39.4	438	10.48	1,000	7.1	27	25.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SET89GH2.1

Number of peaks found:	2	Corr. Area 1:	194.1
Noise:	0.2		

Peak table for sample 7 : SET89GH2.1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	393	23.38	90.1	
3	422	147.07	528.0	
4	10,380	75.00	10.9	Upper Marker

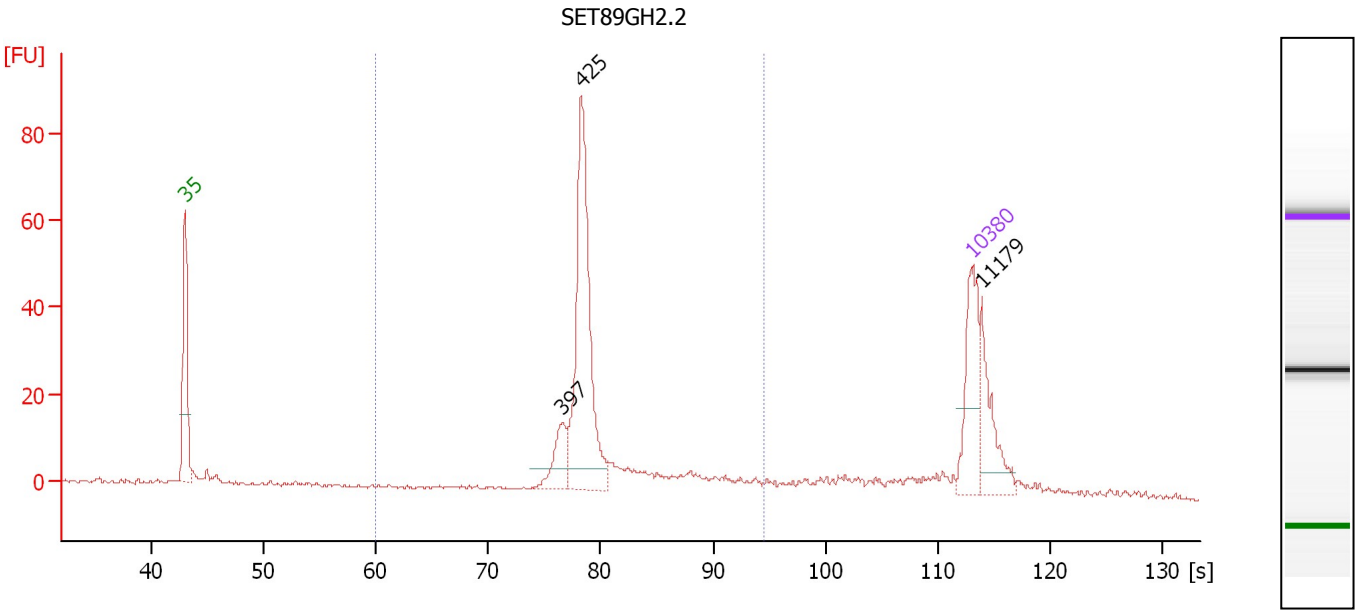
Region table for sample 7 : SET89GH2.1

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	713.6	457	207.74	1,000	194.1	85	20.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : SET89GH2.2

Width Threshold [s] : 1

Overall Results for sample 8 : SET89GH2.2

Number of peaks found:	3	Corr. Area 1:	245.2
Noise:	0.4		

Peak table for sample 8 : SET89GH2.2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		397	47.61	181.9	
3		425	276.84	988.0	
4		10,380	75.00	10.9	Upper Marker
5		11,179	0.00	0.0	

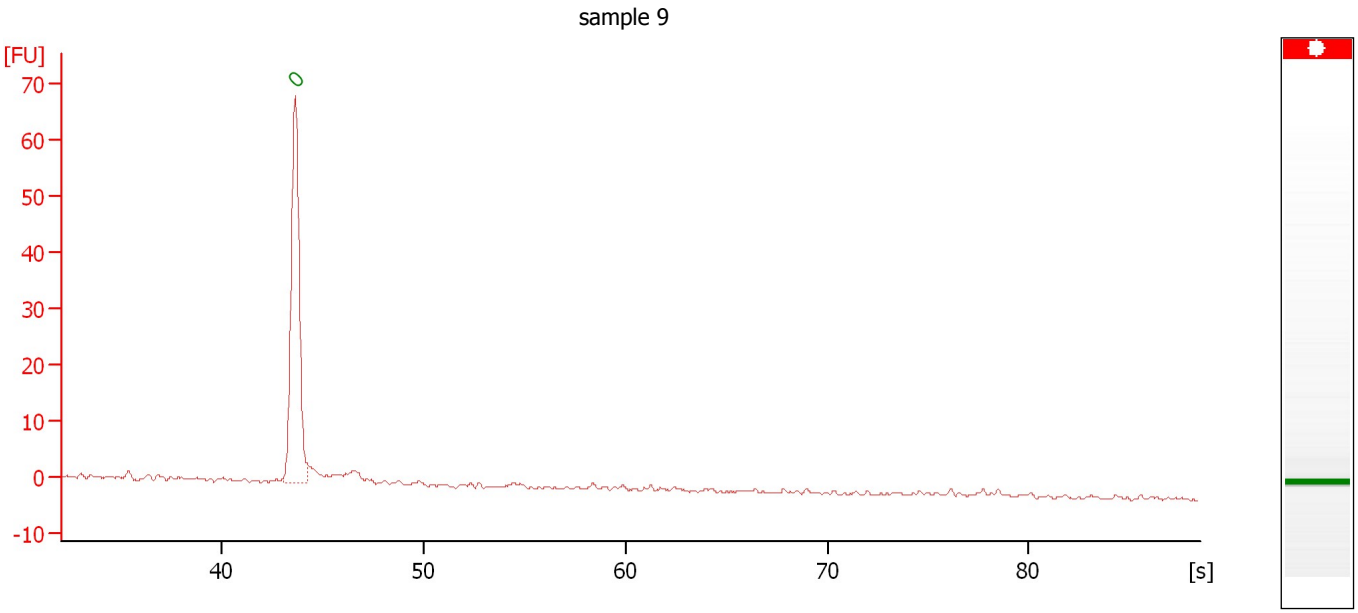
Region table for sample 8 : SET89GH2.2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,387.1	471	412.14	1,000	245.2	66	23.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : sample 9

End Analysis Time Range [s] : 88.45

Overall Results for sample 9 : sample 9

Number of peaks found: 0 Noise: 0.5

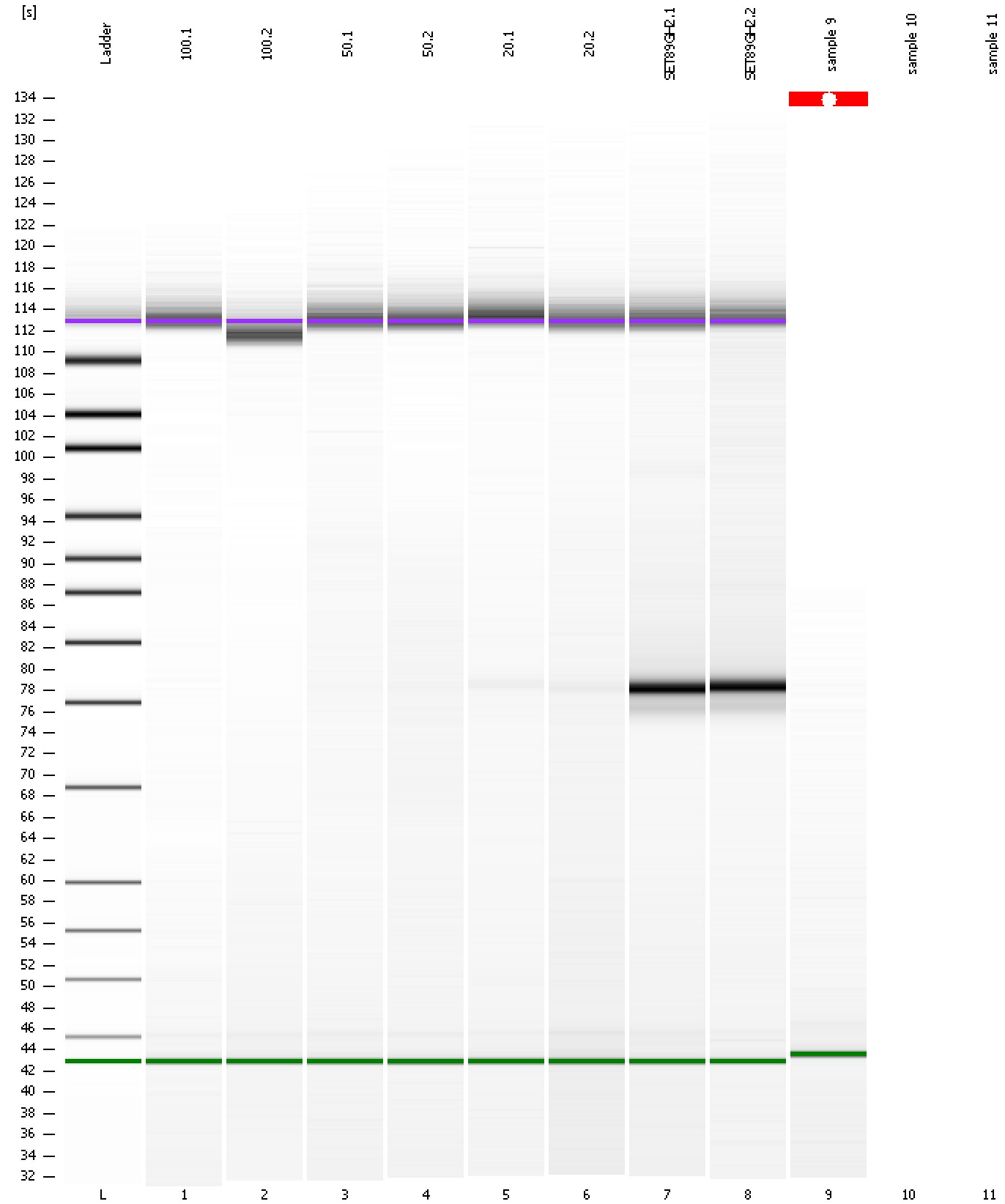
Peak table for sample 9 : sample 9

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Invalid Samples

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\2012-02-14\2012-02-14_002.xad

Created: 2/14/2012 1:10:34 PM
Modified: 2/14/2012 1:45:15 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		2/14/2012 1:45:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-14\2012-02-14_002.xad)		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/14/2012 1:10:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1