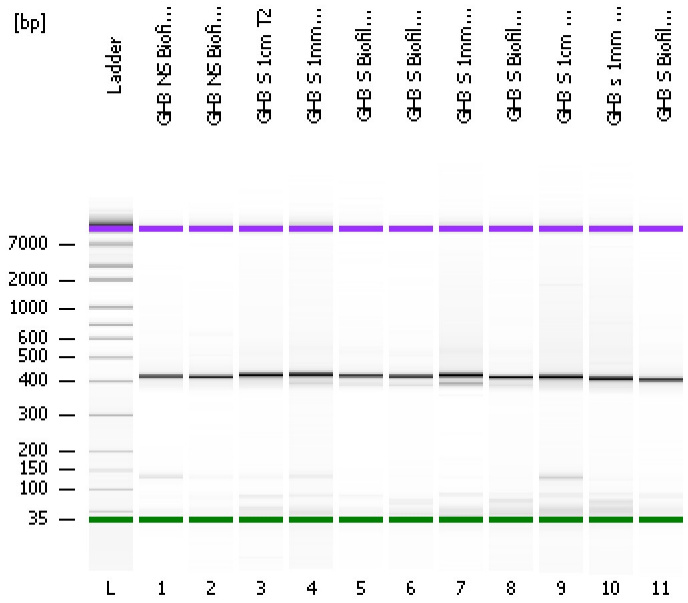
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

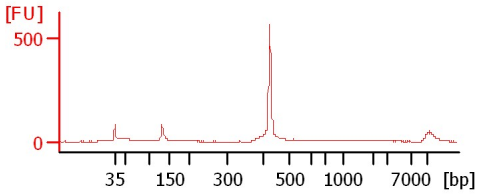
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

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

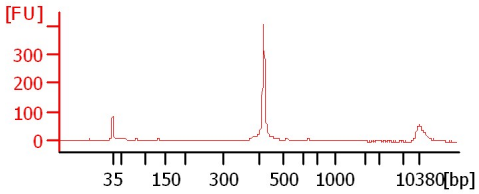
Chip Information:

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

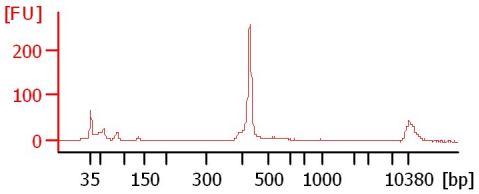
GH3 NS Biofilm1 T29



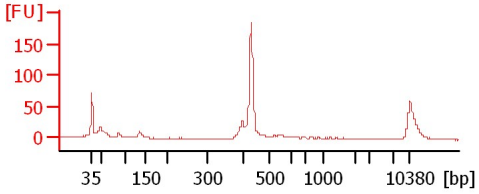
GH3 NS Biofilm2 T30



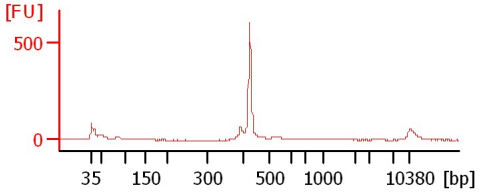
GH3 S 1cm T2



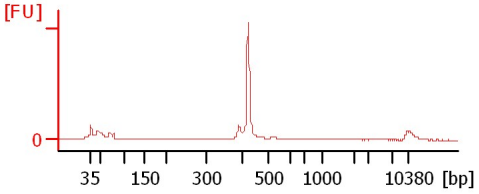
GH3 S 1mm T4



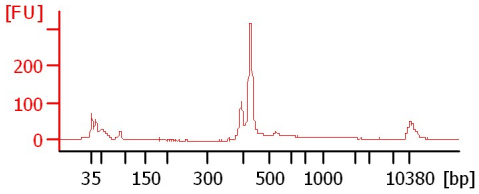
GH3 S Biofilm1 T7



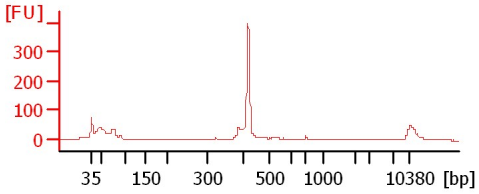
GH3 S Biofilm2 T8



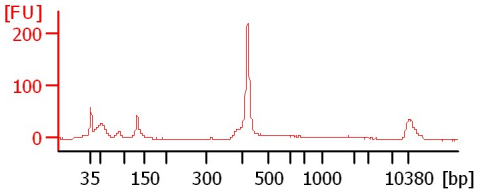
GH3 S 1mm T12



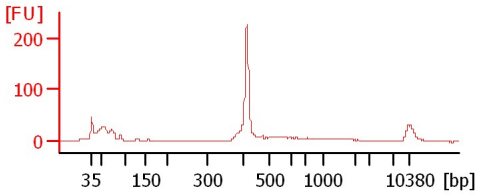
GH3 S Biofilm2 T16



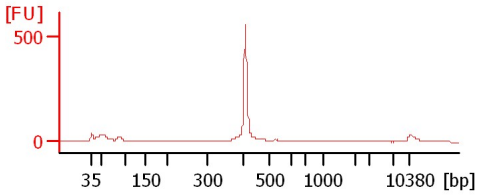
GH3 S 1cm T18



GH3 s 1mm T20



GH3 S Biofilm1 T23



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GH3 NS Biofilm1 T29		☐	✓			
GH3 NS Biofilm2 T30		☐	✓			
GH3 S 1cm T2		☐	✓			
GH3 S 1mm T4		☐	✓			
GH3 S Biofilm1 T7		☐	✓			
GH3 S Biofilm2 T8		☐	✓			
GH3 S 1mm T12		☐	✓			
GH3 S Biofilm2 T16		☐	✓			
GH3 S 1cm T18		☐	✓			
GH3 s 1mm T20		☐	✓			
GH3 S Biofilm1 T23		☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 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

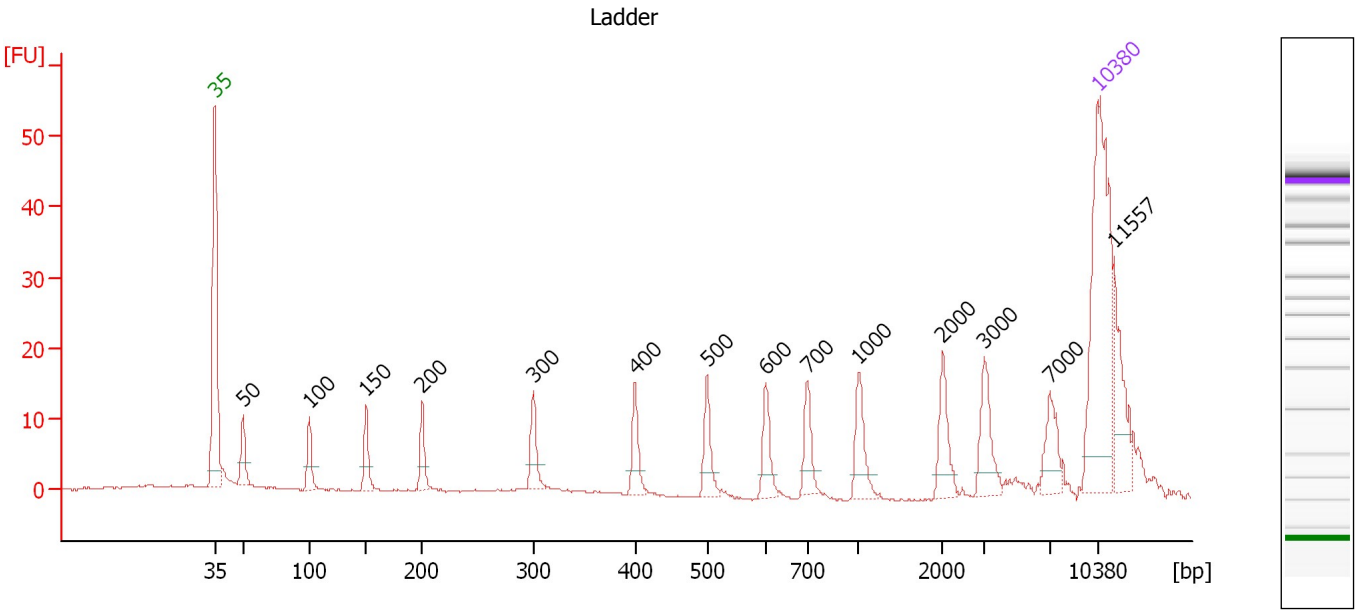
Ladder

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\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

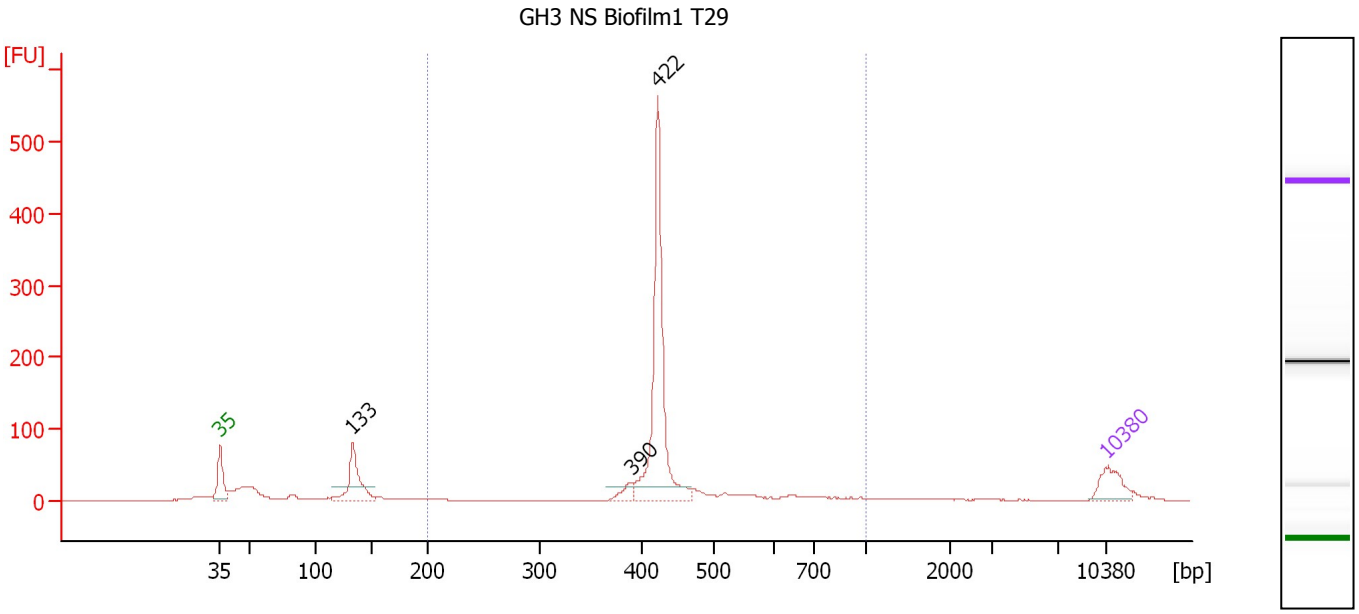
Peak table for Ladder

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		11,557	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : GH3 NS Biofilm1 T29

Height Threshold [FU] : 20

Overall Results for sample 1 : GH3 NS Biofilm1 T29

Number of peaks found:	3	Corr. Area 1:	795.6
Noise:	0.3		

Peak table for sample 1 : GH3 NS Biofilm1 T29

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	263.32	2,996.6	
3	390	45.98	178.7	
4	422	813.31	2,921.0	
5	10,380	75.00	10.9	Upper Marker

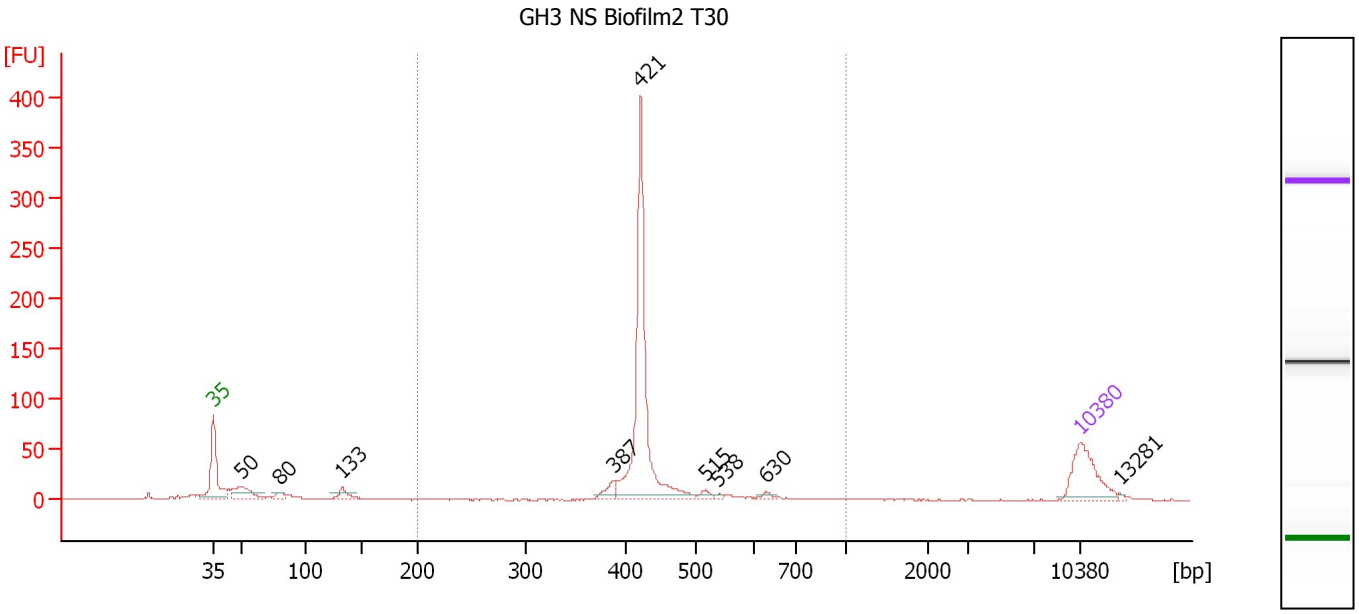
Region table for sample 1 : GH3 NS Biofilm1 T29

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	3,517.9	448	1,002.93	1,000	795.6	66	19.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GH3 NS Biofilm2 T30

Number of peaks found:	9	Corr. Area 1:	532.4
Noise:	0.3		

Peak table for sample 2 : GH3 NS Biofilm2 T30

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		50	58.60	1,761.8	
3		80	15.02	286.1	
4		133	22.15	252.8	
5		387	21.63	84.6	
6		421	416.23	1,499.5	
7		515	9.21	27.1	
8		538	4.15	11.7	
9		630	6.59	15.8	
10	▶	10,380	75.00	10.9	Upper Marker
11		13,281	0.00	0.0	

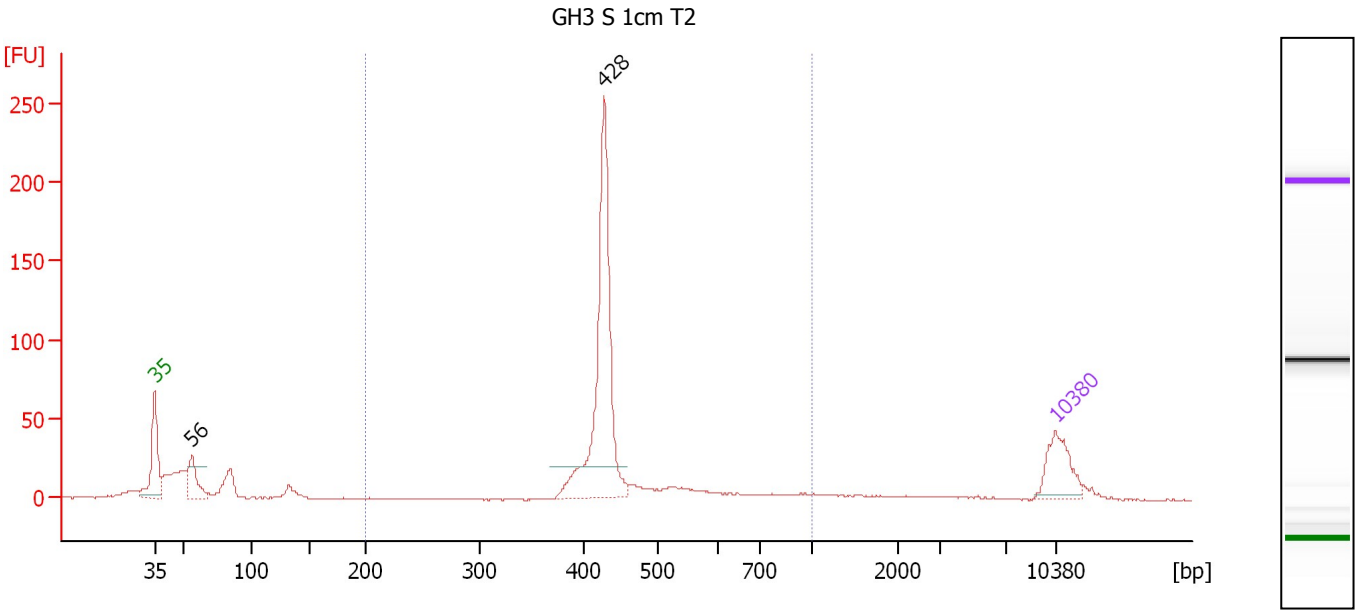
Region table for sample 2 : GH3 NS Biofilm2 T30

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,683.4	441	480.18	1,000	532.4	80	15.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : GH3 S 1cm T2

Height Threshold [FU] : 20

Overall Results for sample 3 : GH3 S 1cm T2

Number of peaks found:	2	Corr. Area 1:	475.2
Noise:	0.4		

Peak table for sample 3 : GH3 S 1cm T2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	91.50	2,460.5	
3	428	514.85	1,822.2	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : GH3 S 1cm T2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	2,125.0	458	621.20	1,000	475.2	67	20.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

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Modified: 4/6/2012 12:58:44 PM

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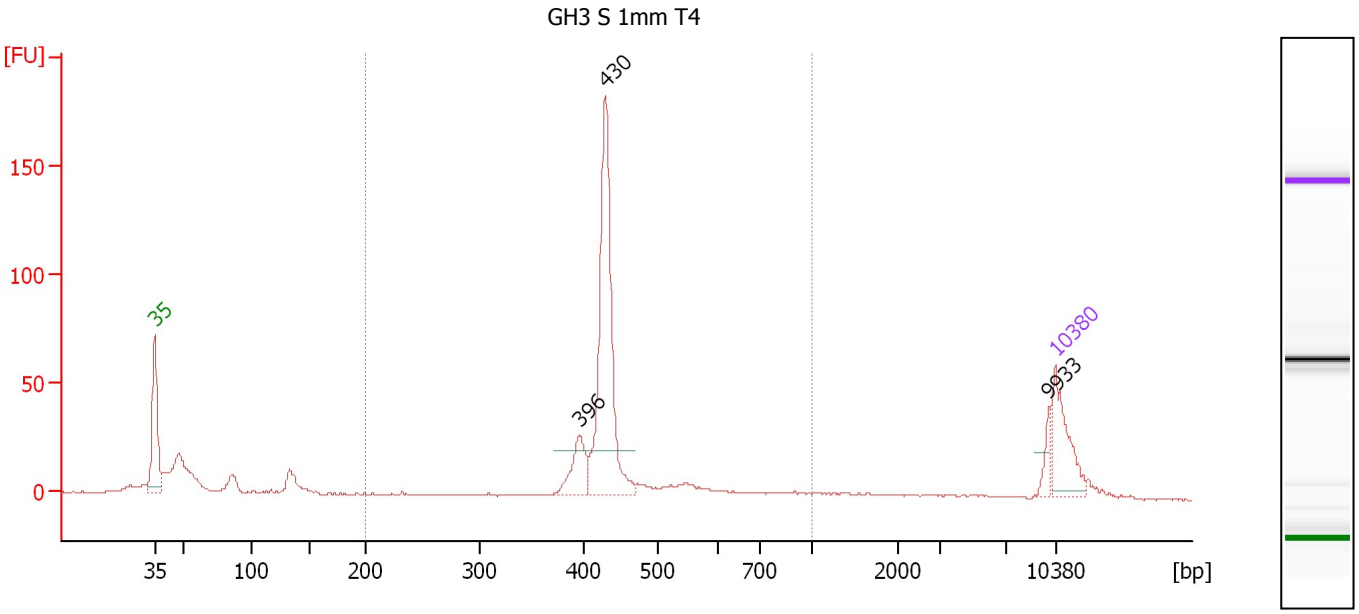

Setpoint Deviations for sample 4 : GH3 S 1mm T4

Height Threshold [FU] : 20

Overall Results for sample 4 : GH3 S 1mm T4

Number of peaks found:	3	Corr. Area 1:	372.9
Noise:	0.4		

Peak table for sample 4 : GH3 S 1mm T4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	396	69.08	264.5	
3	430	374.63	1,318.7	
4	9,933	20.09	3.1	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : GH3 S 1mm T4

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,860.4	452	535.46	1,000	372.9	63	19.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

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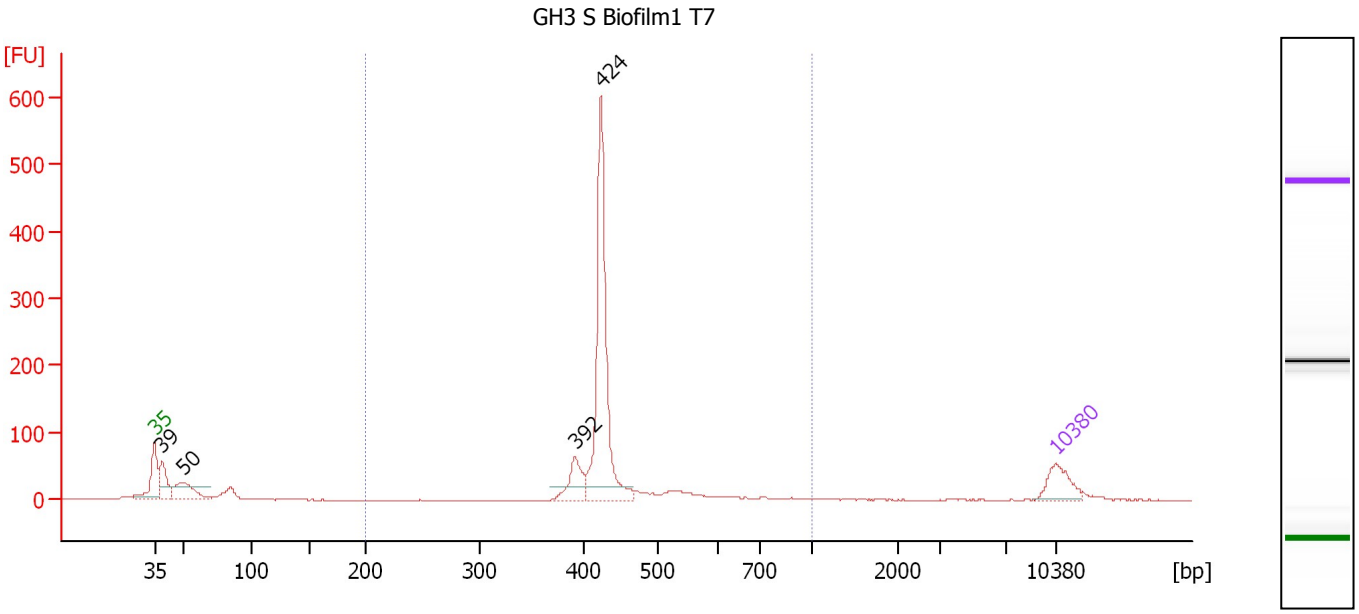

Setpoint Deviations for sample 5 : GH3 S Biofilm1 T7

Height Threshold [FU] : 20

Overall Results for sample 5 : GH3 S Biofilm1 T7

Number of peaks found:	4	Corr. Area 1:	872.4
Noise:	0.3		

Peak table for sample 5 : GH3 S Biofilm1 T7

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	137.34	5,331.7	
3	50	159.49	4,844.7	
4	392	106.56	412.2	
5	424	692.39	2,474.3	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : GH3 S Biofilm1 T7

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	3,181.7	444	912.11	1,000	872.4	73	16.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

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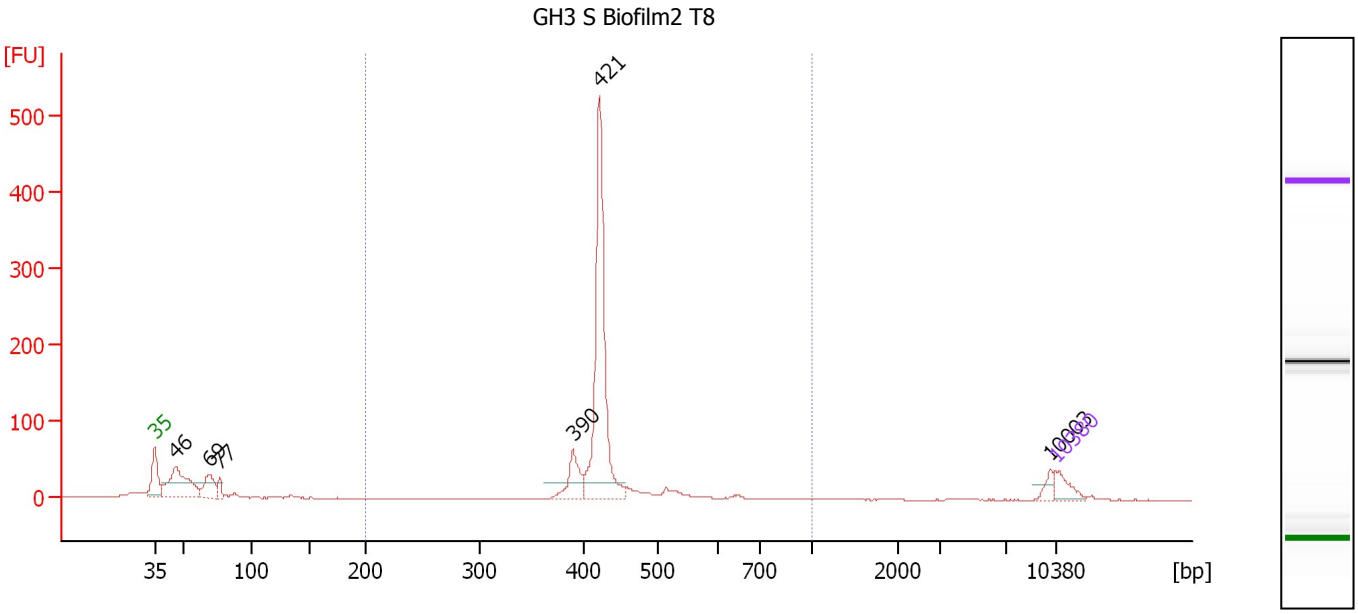

Setpoint Deviations for sample 6 : GH3 S Biofilm2 T8

Height Threshold [FU] : 20

Overall Results for sample 6 : GH3 S Biofilm2 T8

Number of peaks found:	6	Corr. Area 1:	728.0
Noise:	0.4		

Peak table for sample 6 : GH3 S Biofilm2 T8

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	550.54	18,158.7	
3	69	203.40	4,457.3	
4	77	62.50	1,234.5	
5	390	200.97	781.3	
6	421	1,260.68	4,531.8	
7	10,003	45.71	6.9	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : GH3 S Biofilm2 T8

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5,747.2	434	1,623.36	1,000	728.0	69	12.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

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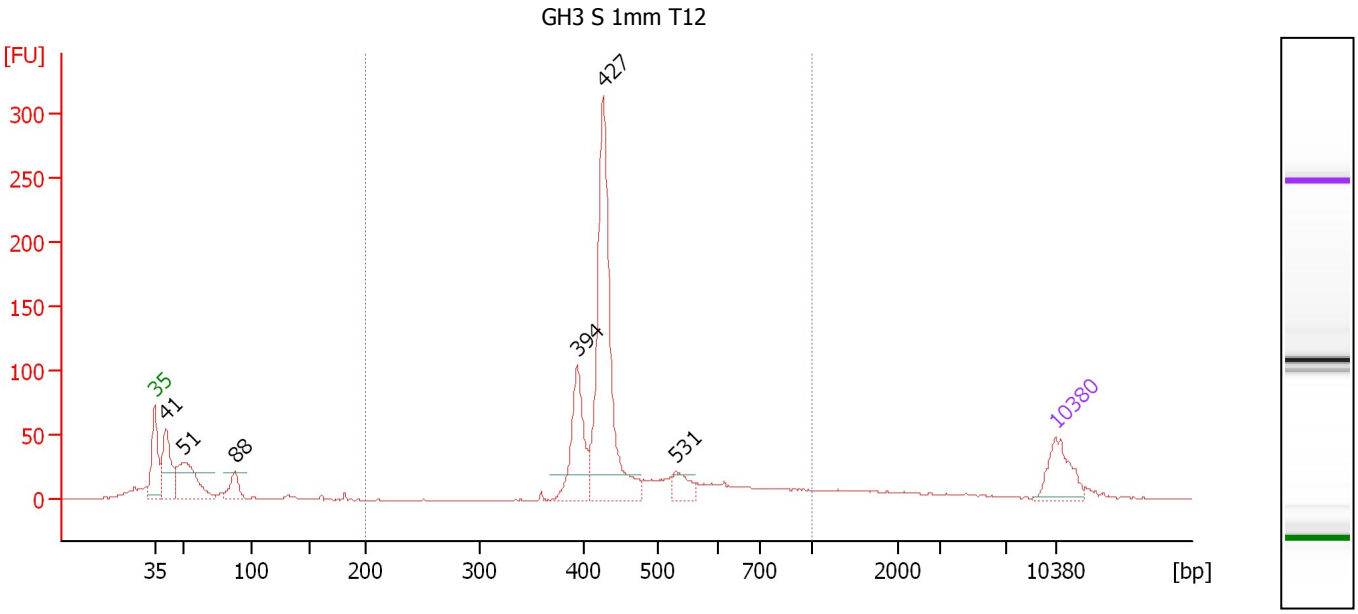


Setpoint Deviations for sample 7 : GH3 S 1mm T12

Height Threshold [FU] : 20

Overall Results for sample 7 : GH3 S 1mm T12

Number of peaks found:	6	Corr. Area 1:	810.6
Noise:	0.4		

Peak table for sample 7 : GH3 S 1mm T12

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	179.04	6,617.7	
3	51	201.40	6,024.7	
4	88	60.29	1,033.5	
5	394	185.86	714.5	
6	427	570.55	2,023.6	
7	531	47.66	136.0	
8	10,380	75.00	10.9	Upper Marker

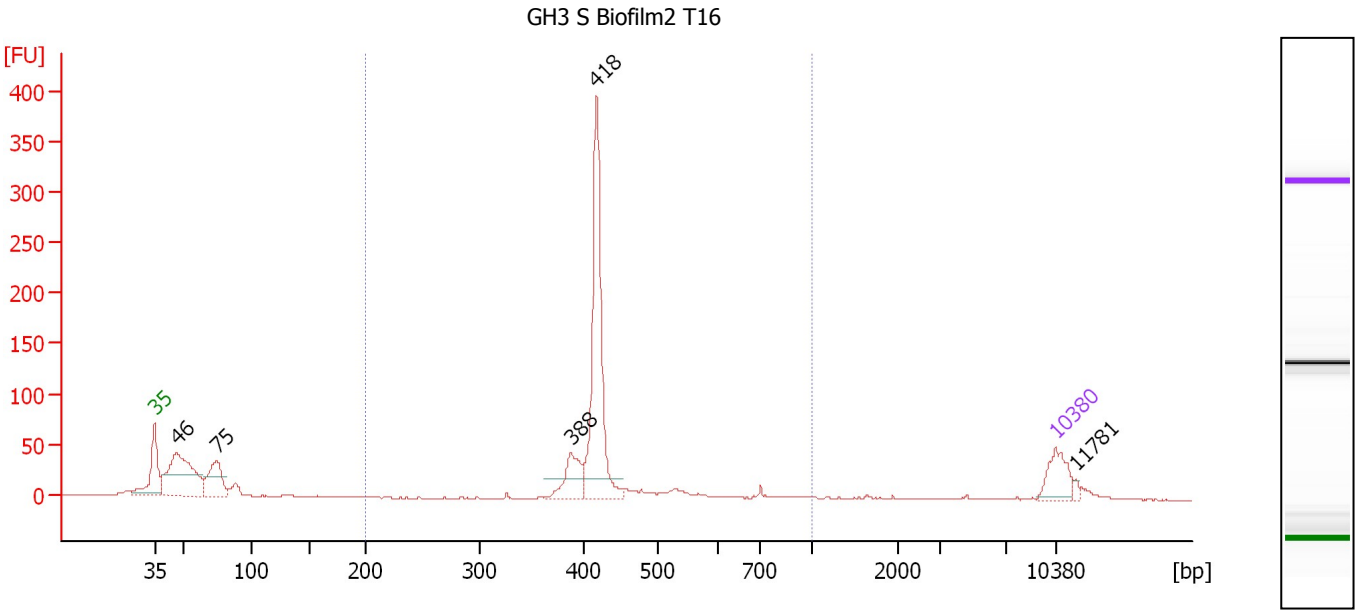
Region table for sample 7 : GH3 S 1mm T12

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	3,173.5	471	940.81	1,000	810.6	67	23.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : GH3 S Biofilm2 T16

Height Threshold [FU] : 20

Overall Results for sample 8 : GH3 S Biofilm2 T16

Number of peaks found:	5	Corr. Area 1:	561.5
Noise:	0.4		

Peak table for sample 8 : GH3 S Biofilm2 T16

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	433.63	14,161.7	
3	75	175.71	3,567.7	
4	388	116.20	453.9	
5	418	569.19	2,064.9	
6	10,380	75.00	10.9	Upper Marker
7	11,781	0.00	0.0	

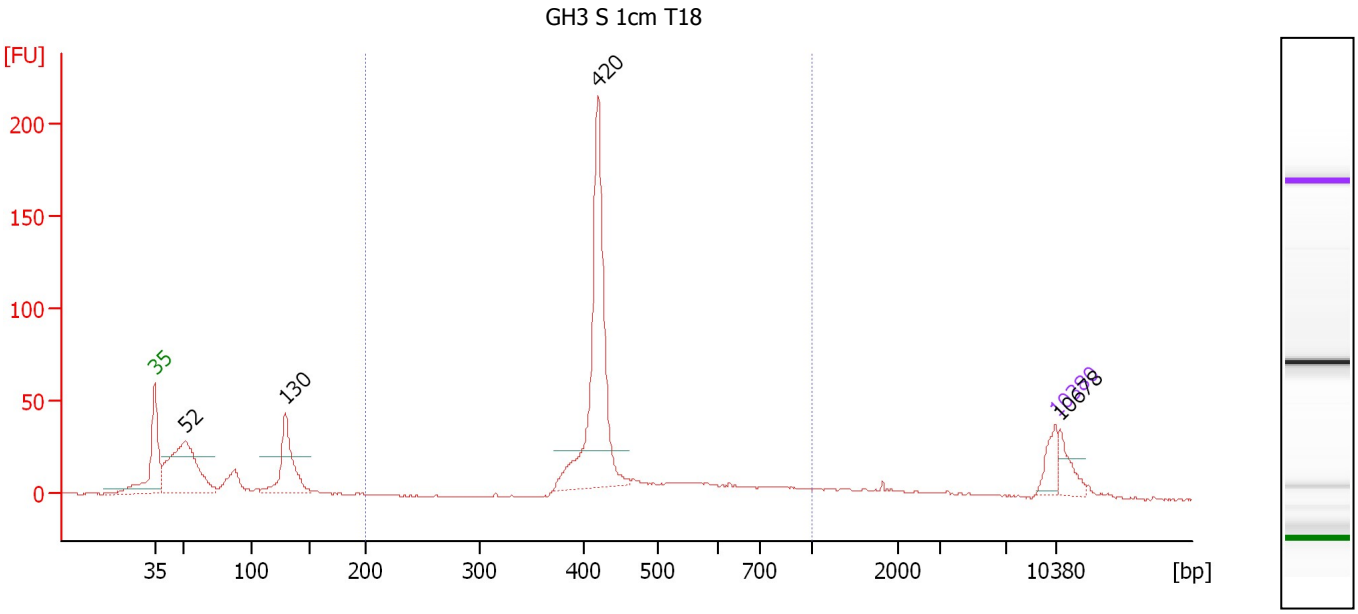
Region table for sample 8 : GH3 S Biofilm2 T16

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	2,684.6	431	750.99	1,000	561.5	60	14.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : GH3 S 1cm T18

Height Threshold [FU] : 20

Overall Results for sample 9 : GH3 S 1cm T18

Number of peaks found:	4	Corr. Area 1:	463.5
Noise:	0.3		

Peak table for sample 9 : GH3 S 1cm T18

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	703.83	20,619.3	
3	130	374.60	4,371.0	
4	420	965.39	3,481.7	
5	10,380	75.00	10.9	Upper Marker
6	10,678	0.00	0.0	

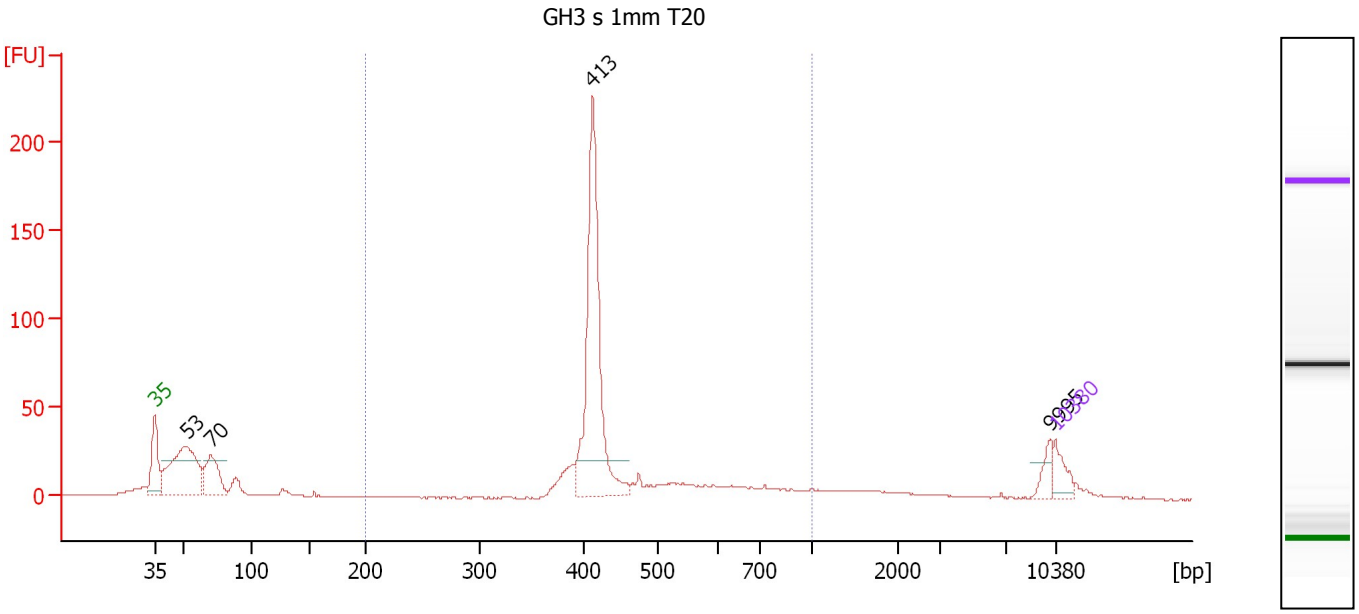
Region table for sample 9 : GH3 S 1cm T18

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	4,700.5	470	1,384.68	1,000	463.5	53	24.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : GH3 s 1mm T20

Height Threshold [FU] : 20

Overall Results for sample 10 : GH3 s 1mm T20

Number of peaks found:	4	Corr. Area 1:	467.2
Noise:	0.2		

Peak table for sample 10 : GH3 s 1mm T20

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		53	733.73	21,099.2	
3		70	291.16	6,266.9	
4		413	1,124.48	4,129.5	
5		9,995	62.96	9.5	
6	▶	10,380	75.00	10.9	Upper Marker

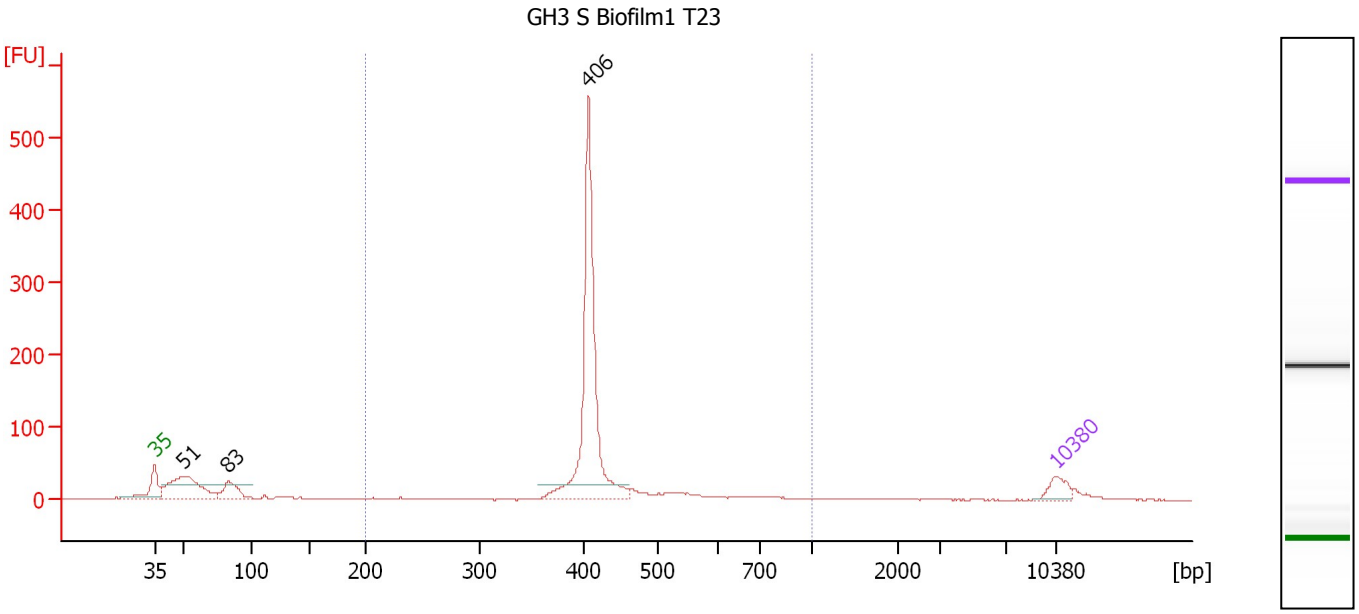
Region table for sample 10 : GH3 s 1mm T20

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5,509.7	465	1,604.77	1,000	467.2	58	24.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : GH3 S Biofilm1 T23

Height Threshold [FU] : 20

Overall Results for sample 11 : GH3 S Biofilm1 T23

Number of peaks found:	3	Corr. Area 1:	799.3
Noise:	0.3		

Peak table for sample 11 : GH3 S Biofilm1 T23

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	604.66	18,084.4	
3	83	201.82	3,673.2	
4	406	1,509.54	5,626.6	
5	10,380	75.00	10.9	Upper Marker

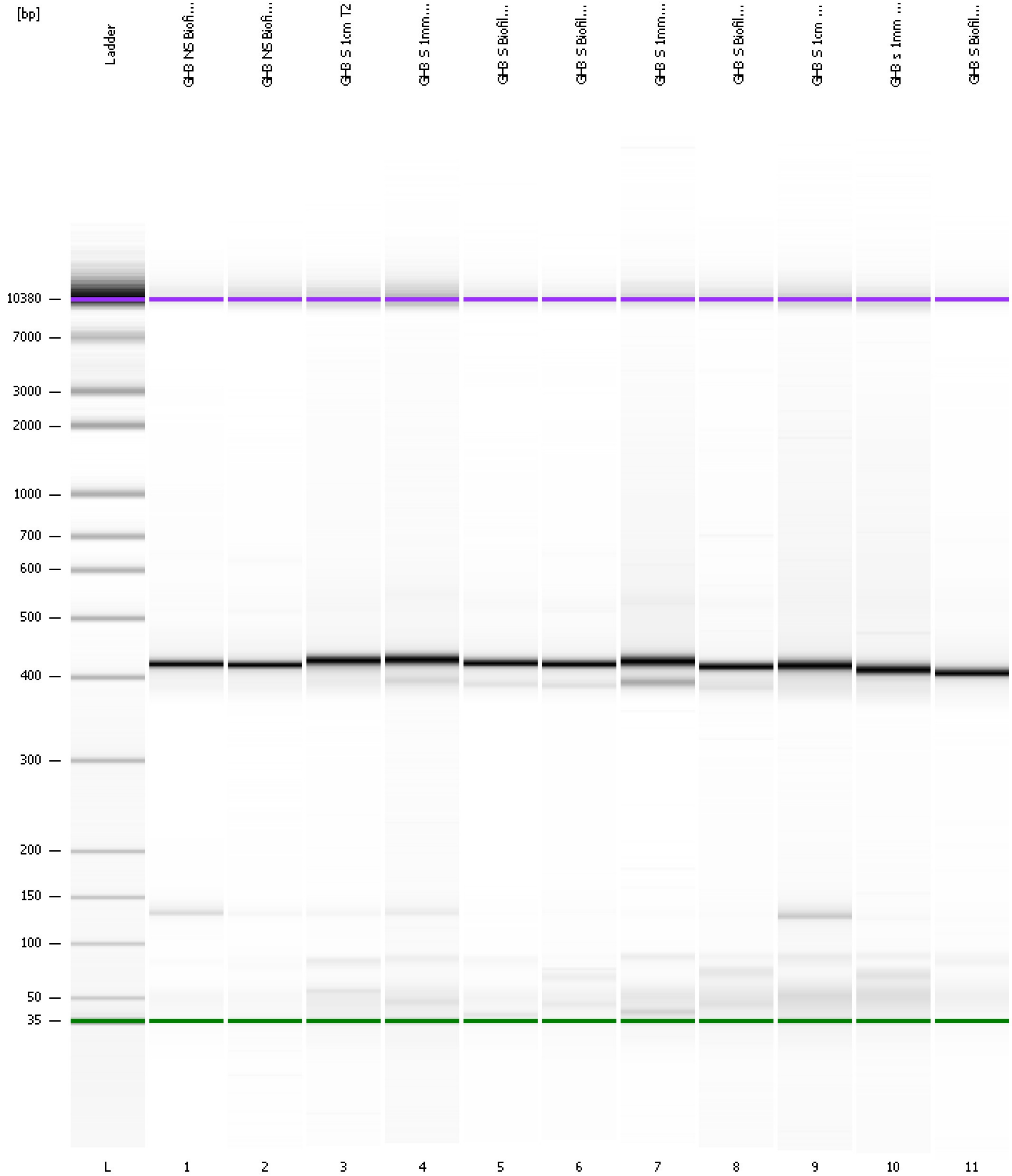
Region table for sample 11 : GH3 S Biofilm1 T23

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	6,319.5	429	1,741.94	1,000	799.3	71	17.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad

Created: 4/6/2012 12:16:31 PM
Modified: 4/6/2012 12:58:44 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		4/6/2012 12:57:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-06\2012-04-06_004.xad)		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/6/2012 12:16:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1