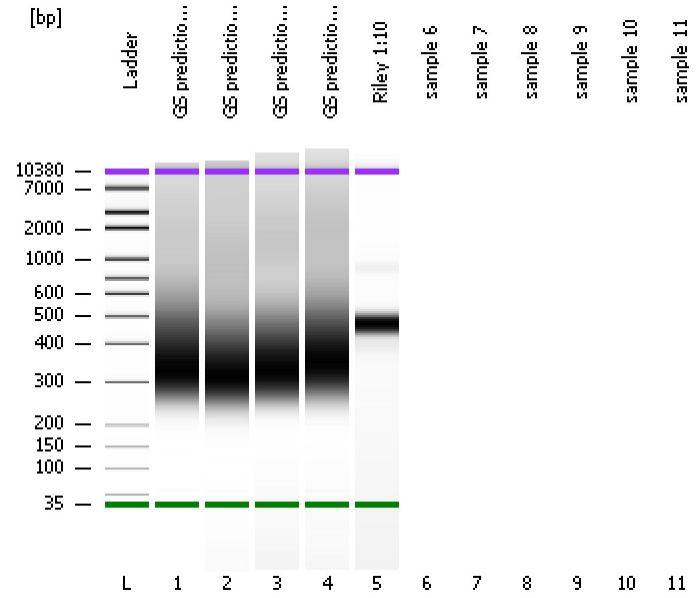
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

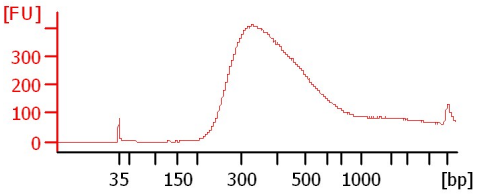
Assay Information:

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

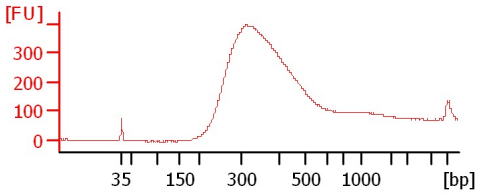
Chip Information:

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

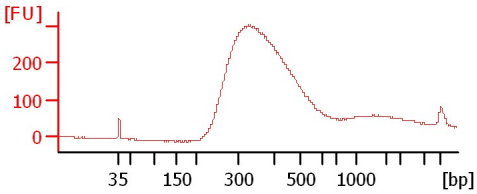
GS prediction G3



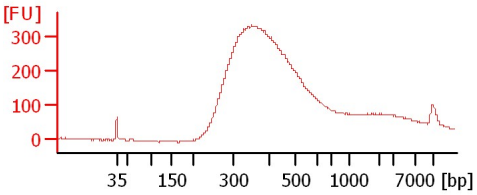
GS prediction H3



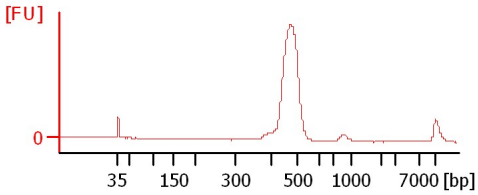
GS prediction F1



GS prediction C2



Riley 1:10



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GS prediction G3		☐	✓			
GS prediction H3		☐	✓			
GS prediction F1		☐	✓			
GS prediction C2		☐	✓			
Riley 1:10		☐	✓			
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
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 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

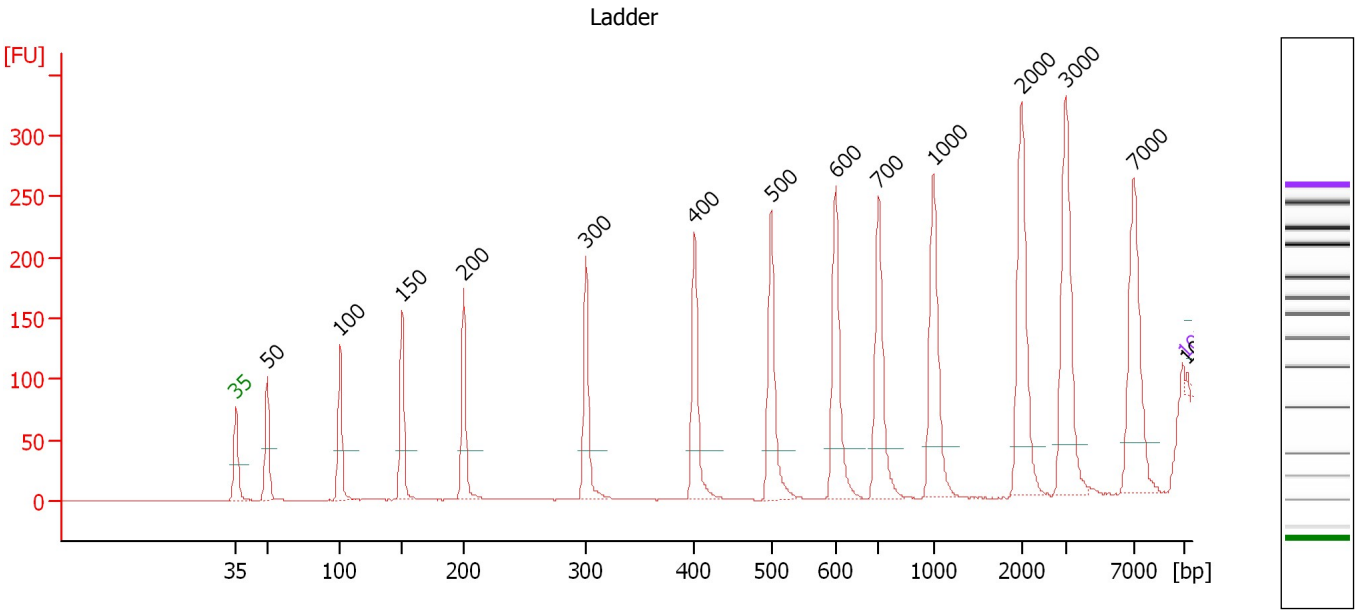
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

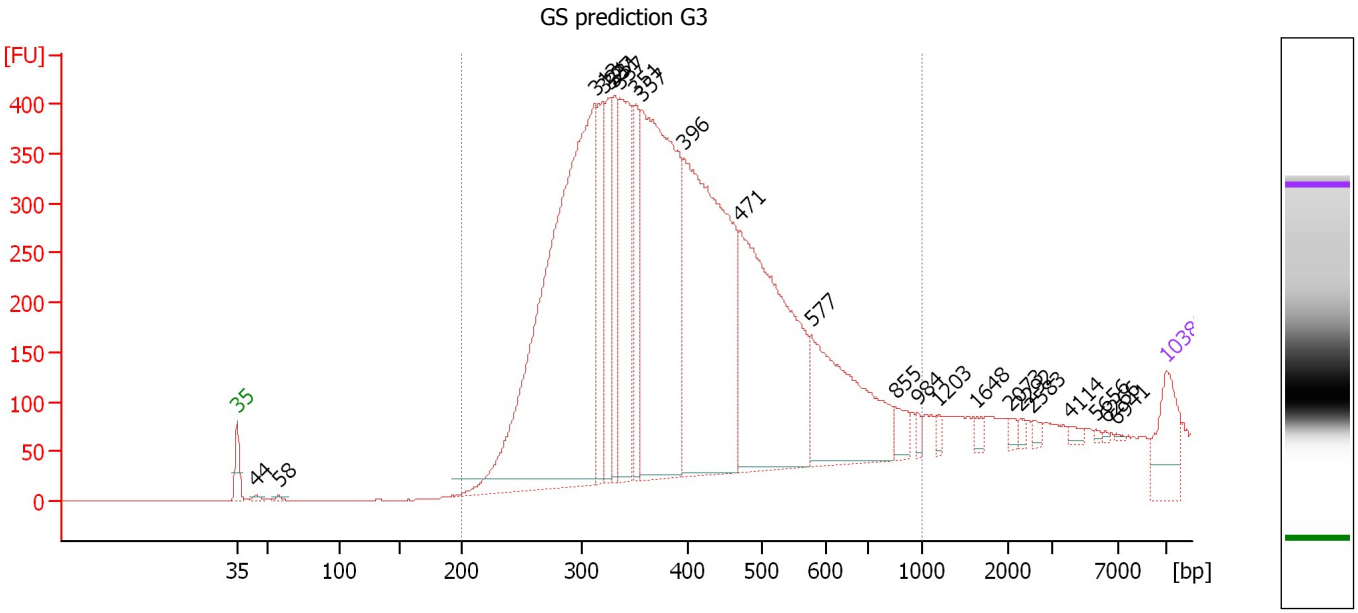
Peak table for Ladder

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		10,634	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GS prediction G3

Number of peaks found:	23	Corr. Area 1:	8,908.2
Noise:	0.2		

Peak table for sample 1 : GS prediction G3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	8.10	278.4	
3	58	6.74	177.6	
4	313	1,486.39	7,184.4	
5	321	176.19	831.7	
6	327	188.85	875.1	
7	331	187.56	857.3	
8	337	339.28	1,525.5	
9	351	161.19	694.8	
10	357	895.64	3,801.4	
11	396	873.22	3,337.0	
12	471	687.09	2,208.9	
13	577	335.78	881.2	
14	855	31.99	56.7	
15	984	11.31	17.4	
16	1,203	10.72	13.5	
17	1,648	11.23	10.3	
18	2,073	8.60	6.3	
19	2,292	8.12	5.4	
20	2,583	8.00	4.7	
21	4,114	8.43	3.1	
22	5,656	3.05	0.8	
23	6,266	2.26	0.5	
24	6,941	1.93	0.4	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...

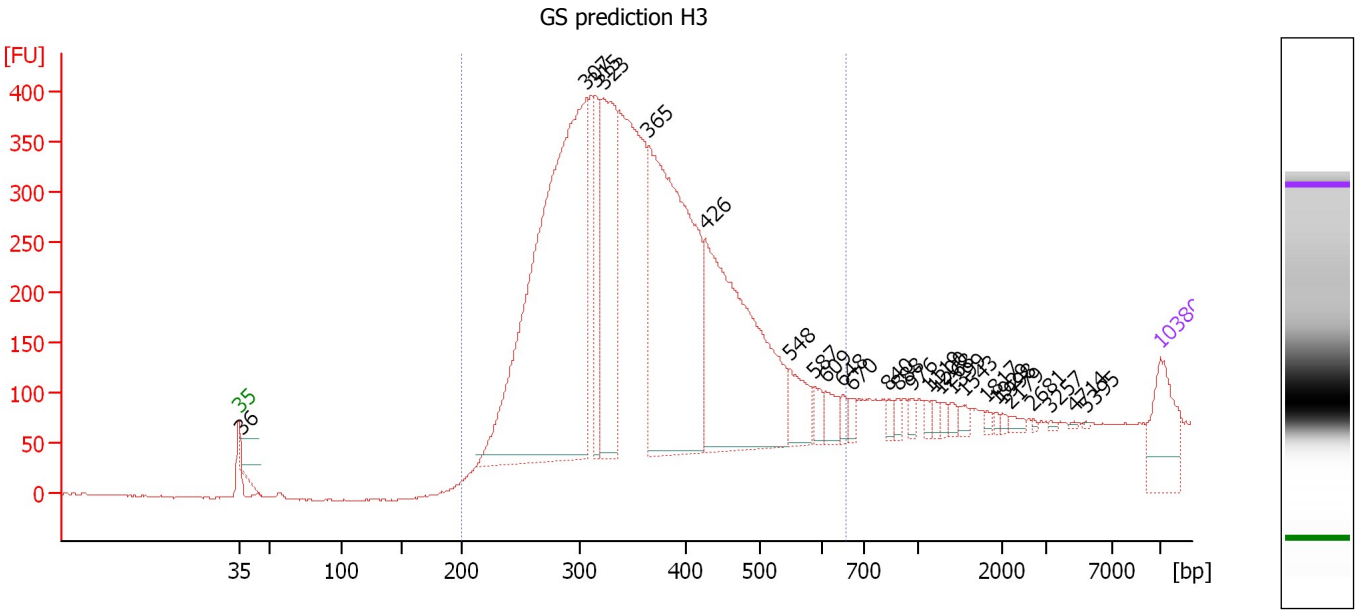
... Region table for sample 1 : GS prediction G3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	403	20,757.5	4,991.58	8,908.2	97	29.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GS prediction H3

Number of peaks found:	27	Corr. Area 1:	7,873.6
Noise:	0.9		

Peak table for sample 2 : GS prediction H3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	36	2.18	92.2	
3	307	1,230.75	6,081.9	
4	315	141.76	681.5	
5	323	337.03	1,582.2	
6	365	731.16	3,038.6	
7	426	547.54	1,945.5	
8	548	64.51	178.3	
9	587	21.30	55.0	
10	609	30.61	76.2	
11	648	14.64	34.2	
12	670	12.25	27.7	
13	840	11.16	20.1	
14	888	10.12	17.3	
15	976	10.06	15.6	
16	1,119	8.57	11.6	
17	1,200	8.77	11.1	
18	1,268	9.26	11.1	
19	1,399	9.57	10.4	
20	1,543	8.86	8.7	
21	1,817	4.89	4.1	
22	1,929	3.80	3.0	
23	1,998	4.17	3.2	
24	2,179	6.35	4.4	
25	2,681	1.97	1.1	
26	3,257	1.95	0.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : GS prediction H3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	4,714	1.58	0.5	
28	5,395	1.03	0.3	
29	10,380	75.00	10.9	Upper Marker

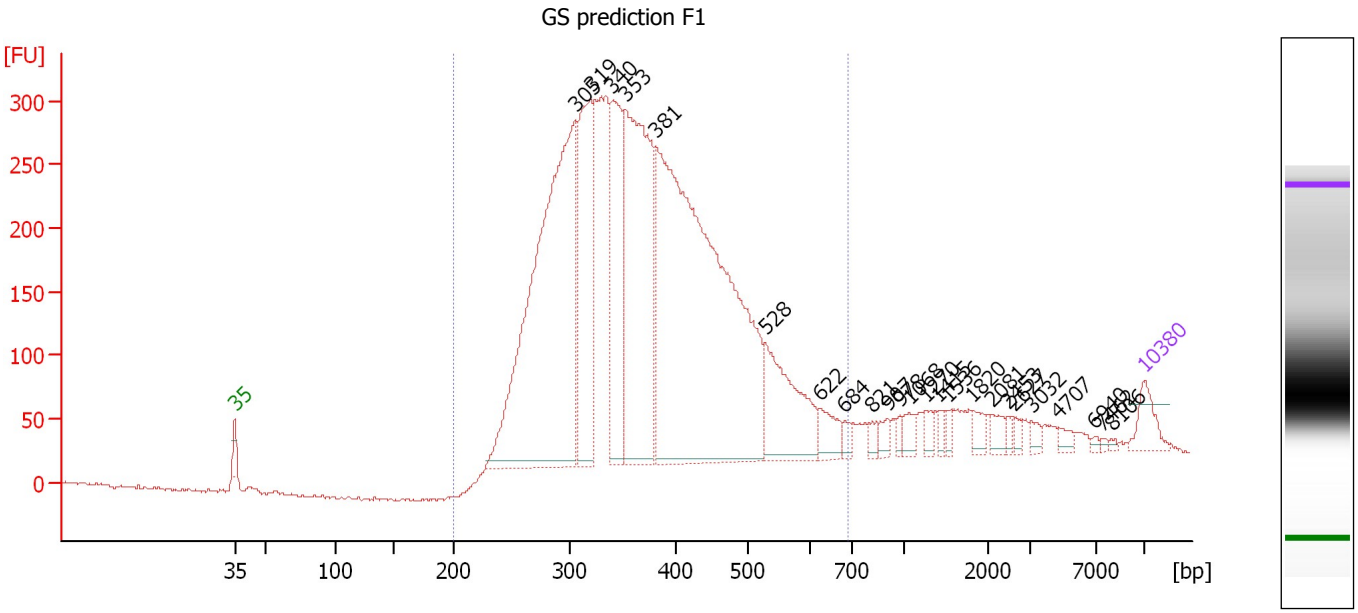
Region table for sample 2 : GS prediction H3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	655	365	16,988.6	3,800.91	7,873.6	93	23.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : GS prediction F1

Number of peaks found:	24	Corr. Area 1:	6,342.9
Noise:	1.3		

Peak table for sample 3 : GS prediction F1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	305	2,410.40	11,990.0	
3	319	770.31	3,653.9	
4	340	657.99	2,933.4	
5	353	1,388.75	5,966.8	
6	381	2,980.09	11,842.6	
7	528	456.31	1,309.9	
8	622	97.75	238.1	
9	684	30.07	66.6	
10	821	30.34	56.0	
11	907	36.66	61.2	
12	978	22.65	35.1	
13	1,068	42.96	61.0	
14	1,270	36.89	44.0	
15	1,415	23.25	24.9	
16	1,536	22.97	22.7	
17	1,820	38.85	32.3	
18	2,081	39.76	29.0	
19	2,453	16.88	10.4	
20	2,627	19.44	11.2	
21	3,032	22.73	11.4	
22	4,707	23.89	7.7	
23	6,940	7.58	1.7	
24	7,462	7.01	1.4	
25	8,106	6.02	1.1	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...

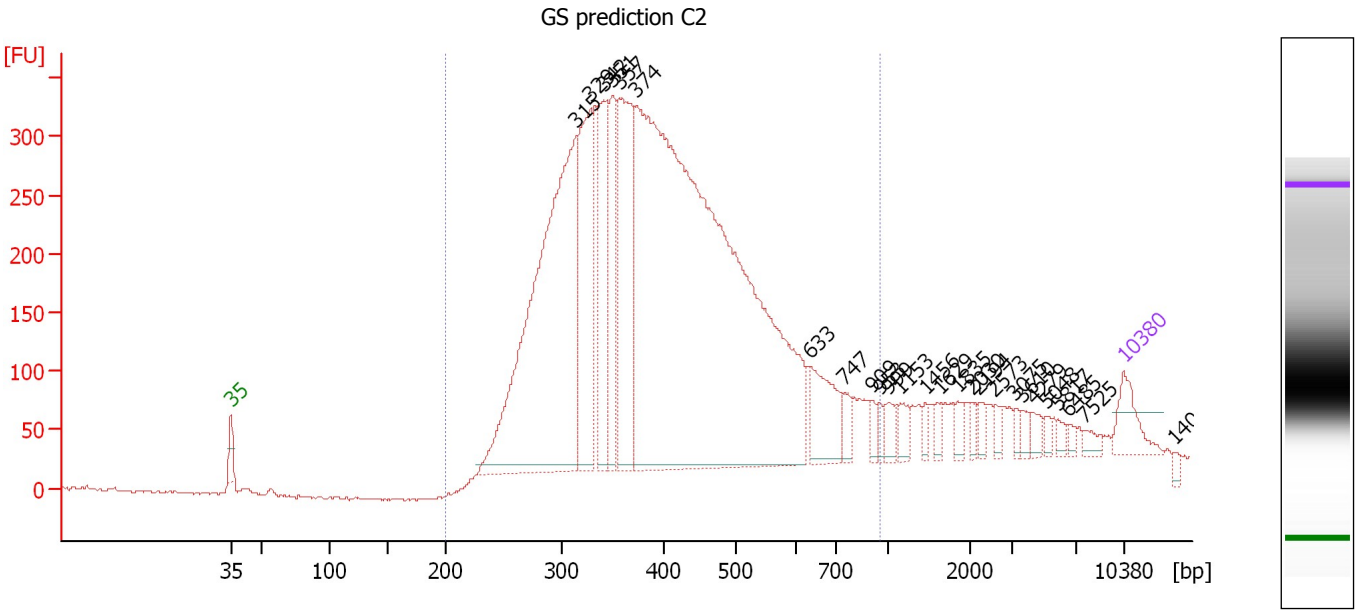
... Region table for sample 3 : GS prediction F1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	690	378	41,934.5	9,743.28	6,342.9	91	23.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GS prediction C2

Number of peaks found:	26	Corr. Area 1:	7,668.3
Noise:	1.1		

Peak table for sample 4 : GS prediction C2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	315	1,701.73	8,195.4	
3	329	547.25	2,522.8	
4	342	365.18	1,619.4	
5	351	303.72	1,312.9	
6	357	610.84	2,590.4	
7	374	3,671.79	14,877.8	
8	633	190.15	455.1	
9	747	46.75	94.9	
10	909	25.44	42.4	
11	953	23.97	38.1	
12	999	40.91	62.0	
13	1,153	40.46	53.2	
14	1,456	20.68	21.5	
15	1,629	20.20	18.8	
16	1,835	27.11	22.4	
17	2,030	20.14	15.0	
18	2,194	22.67	15.6	
19	2,573	19.87	11.7	
20	3,075	15.72	7.7	
21	3,610	20.70	8.7	
22	4,279	24.60	8.7	
23	5,048	14.76	4.4	
24	5,817	16.09	4.2	
25	6,485	12.65	3.0	
26	7,525	19.48	3.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : GS prediction C2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker
28	14,045	0.00	0.0	

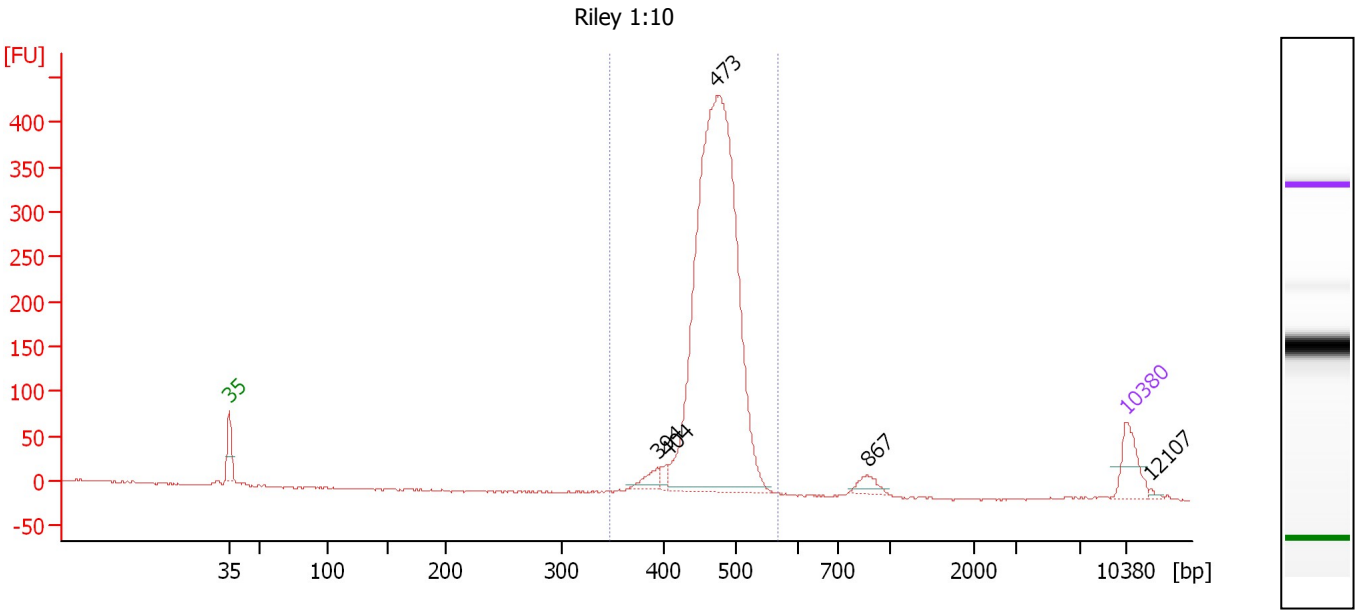
Region table for sample 4 : GS prediction C2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	952	416	30,441.0	7,539.49	7,668.3	91	29.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Riley 1:10

Number of peaks found:	5	Corr. Area 1:	2,236.7
Noise:	1.1		

Peak table for sample 5 : Riley 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	41.50	159.8	
3	404	22.54	84.5	
4	473	2,028.53	6,501.2	
5	867	32.88	57.5	
6	10,380	75.00	10.9	Upper Marker
7	12,107	0.00	0.0	

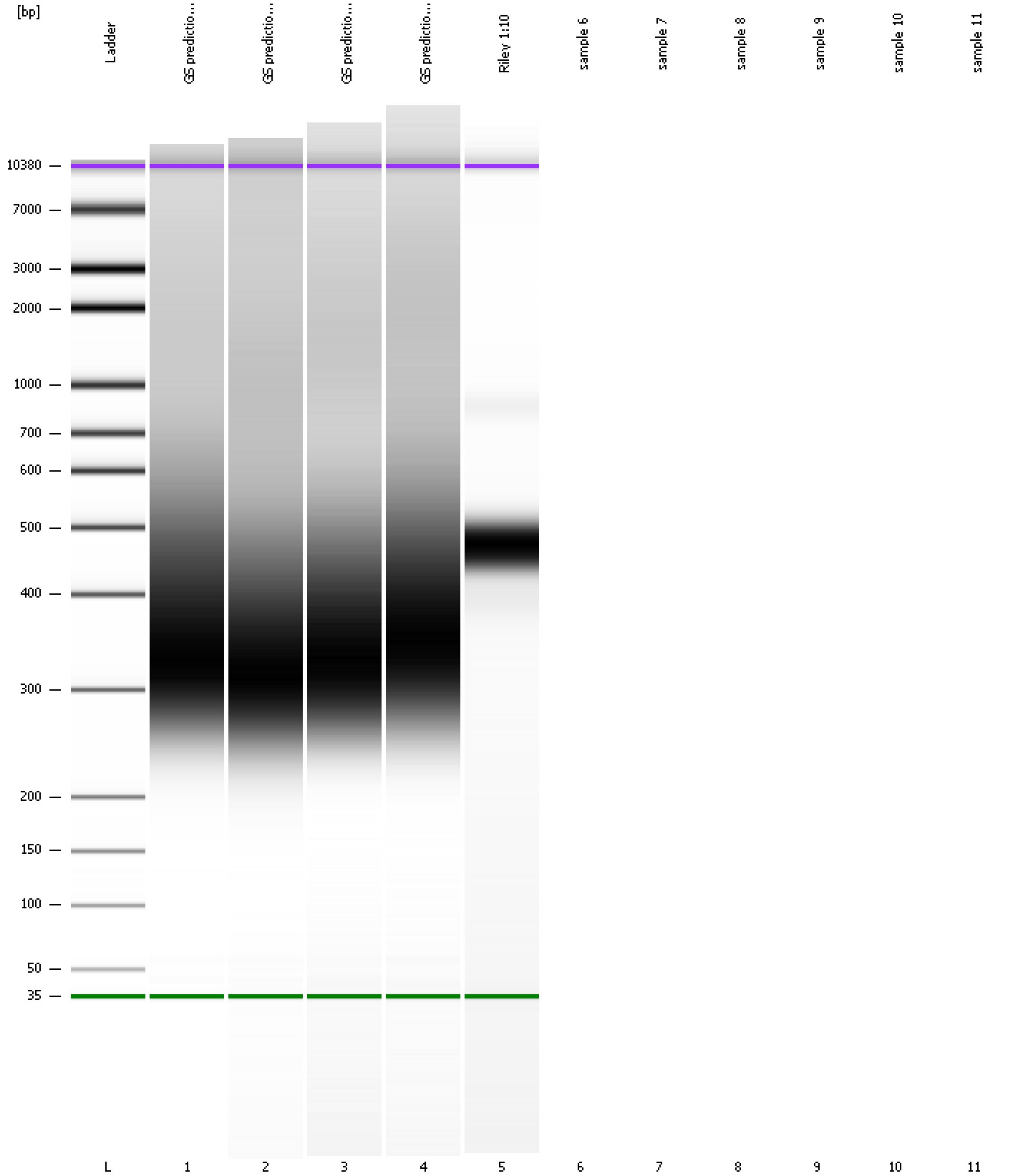
Region table for sample 5 : Riley 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
348	569	470	6,824.9	2,110.68	2,236.7	97	6.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Gel Image

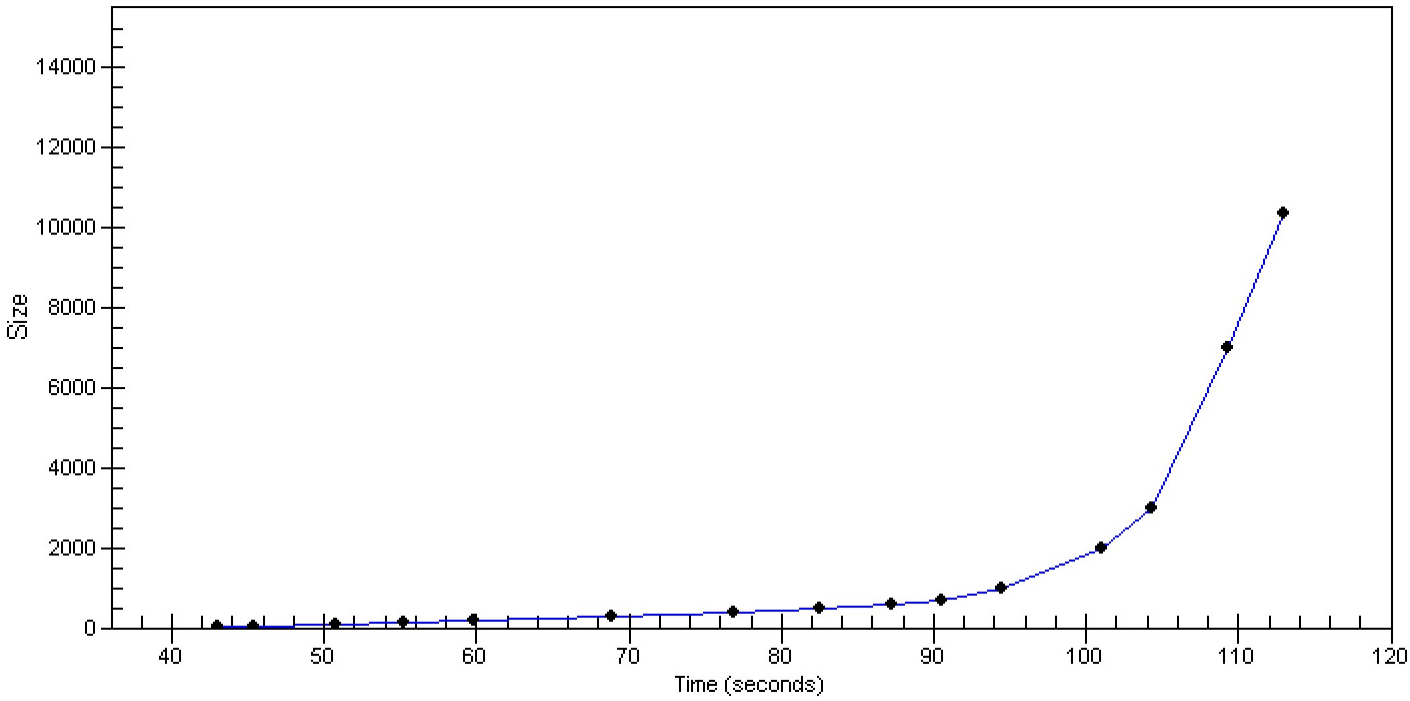


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 8/19/2014 4:40:47 PM
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad Modified: 8/19/2014 5:09:07 PM

Invalid Samples

Sample 6 has not been run, no results available.

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:\... bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad

Created: 8/19/2014 4:40:47 PM
Modified: 8/19/2014 5:09:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		8/19/2014 5:04:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-19\2014-08-19_003.xad)		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/19/2014 4:40:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1