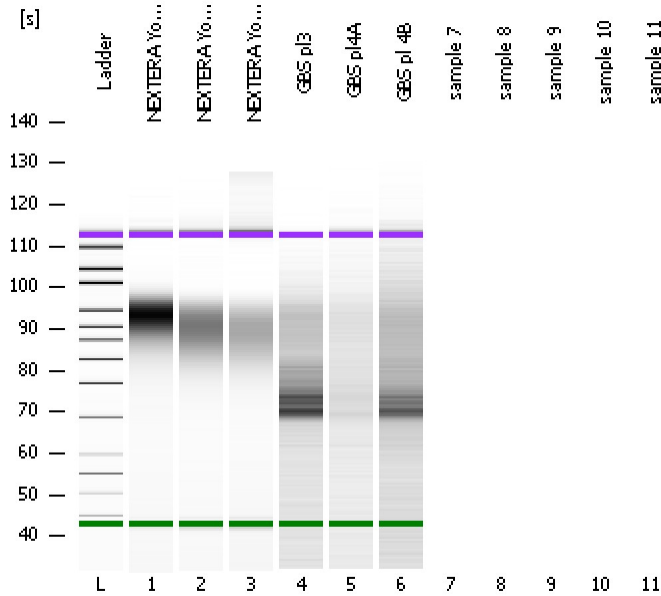


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electrophoresis File Run Summary



Instrument Information:

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

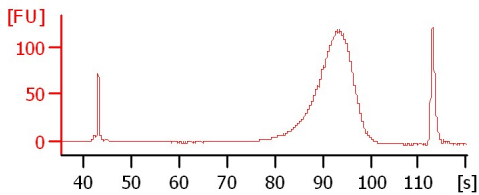
Assay Information:

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

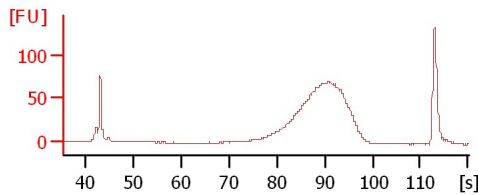
Chip Information:

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

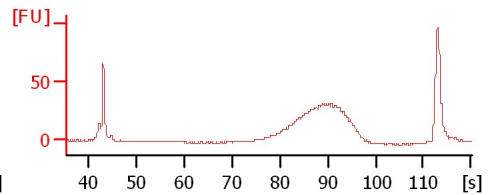
NEXTERA Yoong PI 3-4



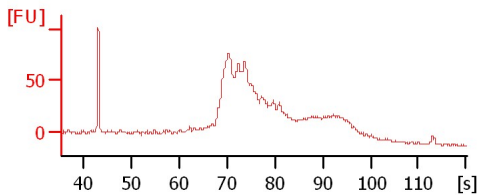
NEXTERA Yoong PI 4-5



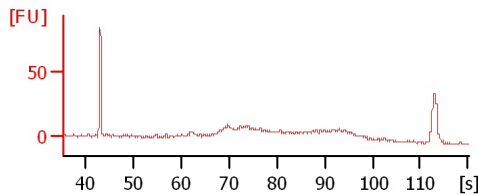
NEXTERA Yoong PI 5-7



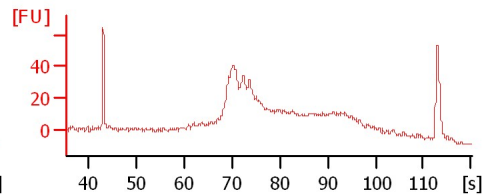
GBS pl3



GBS pl4A



GBS pl 4B



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NEXTERA Yoong PI 3-4		<input type="checkbox"/>	✓			
NEXTERA Yoong PI 4-5		<input type="checkbox"/>	✓			
NEXTERA Yoong PI 5-7		<input type="checkbox"/>	✓			
GBS pl3		<input type="checkbox"/>	✓			
GBS pl4A		<input type="checkbox"/>	✓			
GBS pl 4B		<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\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

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

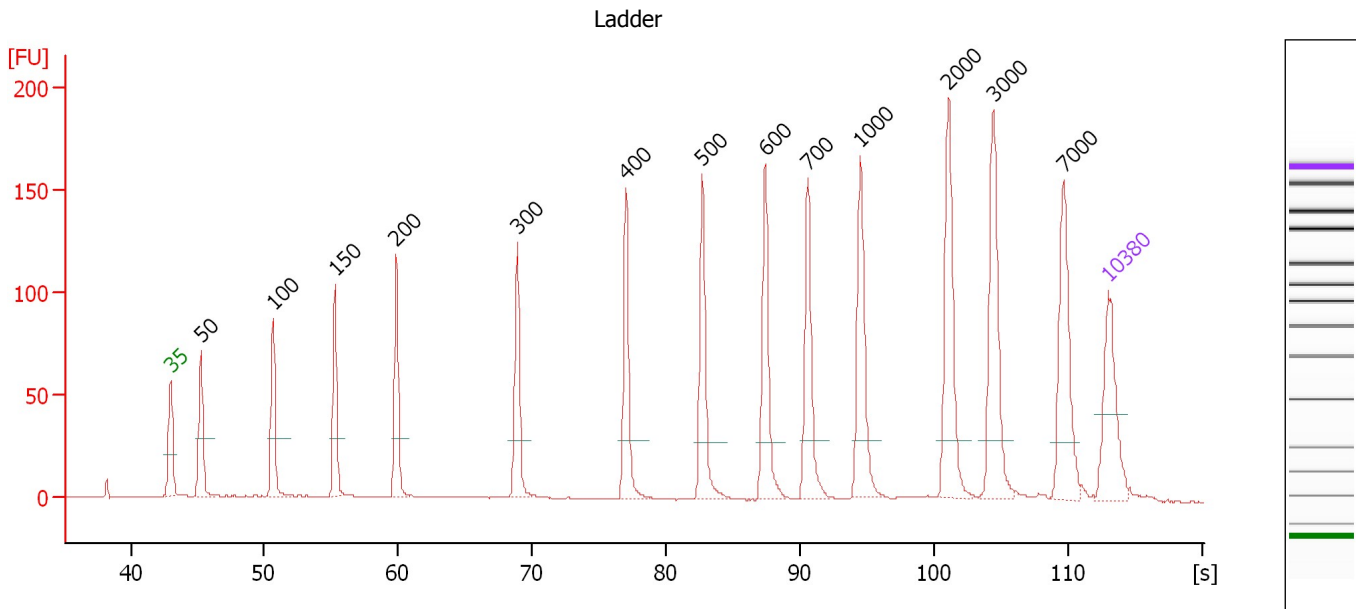
Ladder

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\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

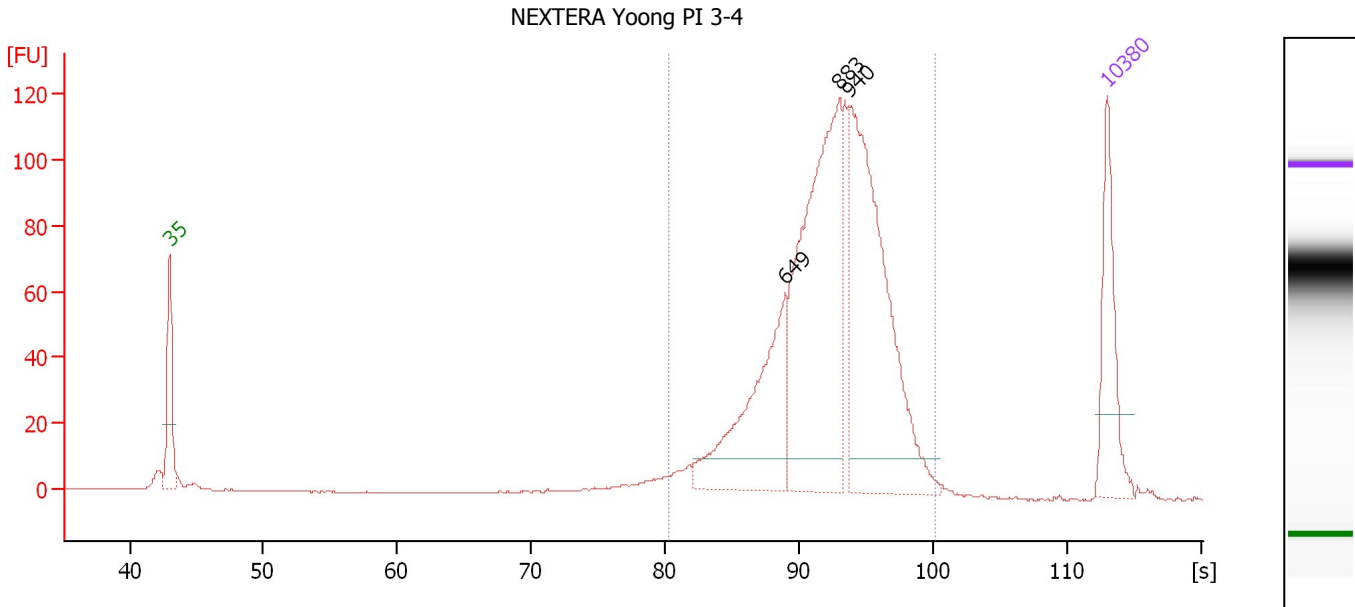
Peak table for Ladder

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\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : NEXTERA Yoong PI 3-4

Height Threshold [FU] : 10

Overall Results for sample 1 : NEXTERA Yoong PI 3-4

Number of peaks found: 3 Corr. Area 1: 1,166.4
 Noise: 0.2

Peak table for sample 1 : NEXTERA Yoong PI 3-4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	649	186.96	436.4	
3	883	360.86	619.3	
4	940	333.61	537.7	
5	10,380	75.00	10.9	Upper Marker

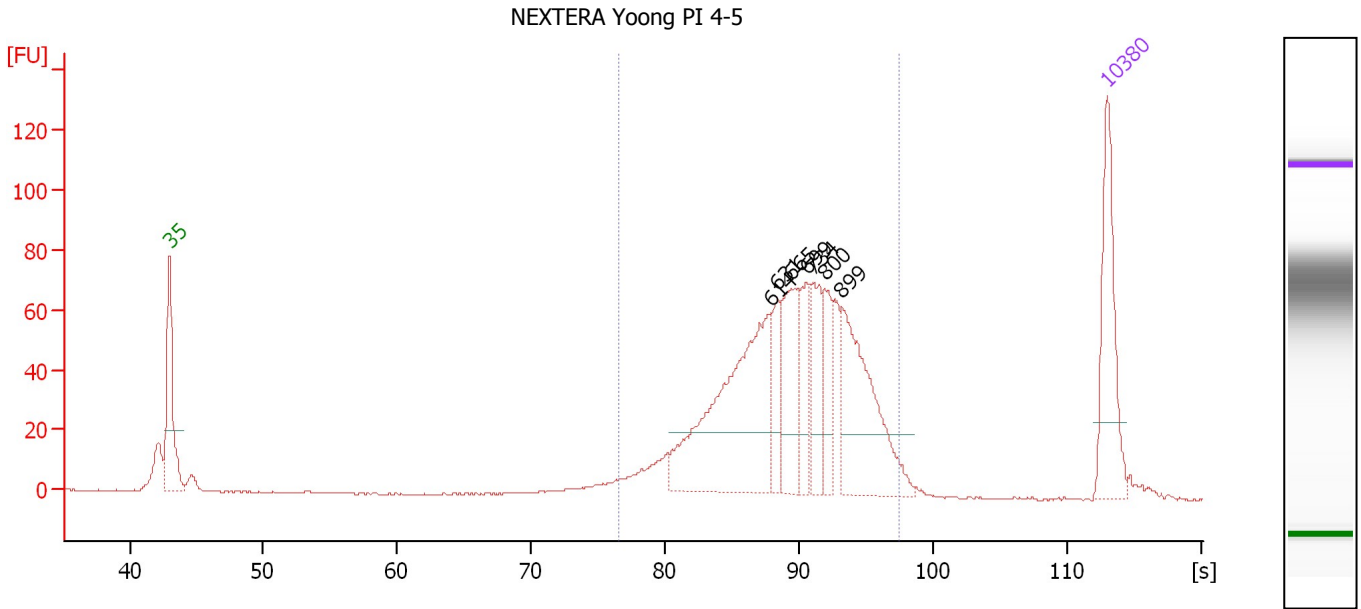
Region table for sample 1 : NEXTERA Yoong PI 3-4

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
80.30	100.14	893	1,816.5	964.40	1,166.4	95	30.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : NEXTERA Yoong PI 4-5

Height Threshold [FU] : 20

Overall Results for sample 2 : NEXTERA Yoong PI 4-5

Number of peaks found: 7 Corr. Area 1: 957.1
 Noise: 0.2

Peak table for sample 2 : NEXTERA Yoong PI 4-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	614	228.01	562.9	
3	631	37.36	89.8	
4	665	74.81	170.6	
5	699	49.77	108.0	
6	734	51.46	106.2	
7	800	45.20	85.6	
8	899	134.25	226.2	
9	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : NEXTERA Yoong PI 4-5

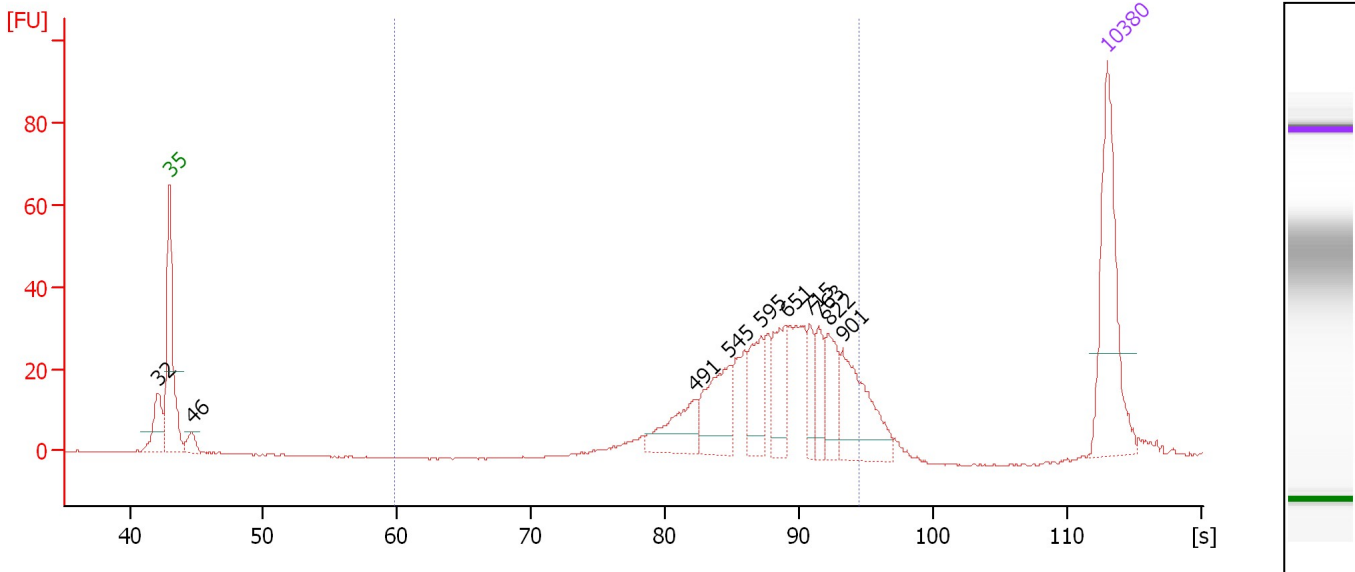
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
76.46	97.40	724	1,651.3	718.20	957.1 92	29.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...

NEXTERA Yoong PI 5-7



Overall Results for sample 3 : NEXTERA Yoong PI 5-7

Number of peaks found: 10 Corr. Area 1: 355.3
 Noise: 0.2

Peak table for sample 3 : NEXTERA Yoong PI 5-7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	12.41	411.0	
4	491	38.76	119.5	
5	545	49.57	137.7	
6	595	35.02	89.2	
7	651	36.45	84.9	
8	715	18.48	39.2	
9	763	21.59	42.9	
10	822	29.42	54.2	
11	901	59.63	100.2	
12	10,380	75.00	10.9	Upper Marker

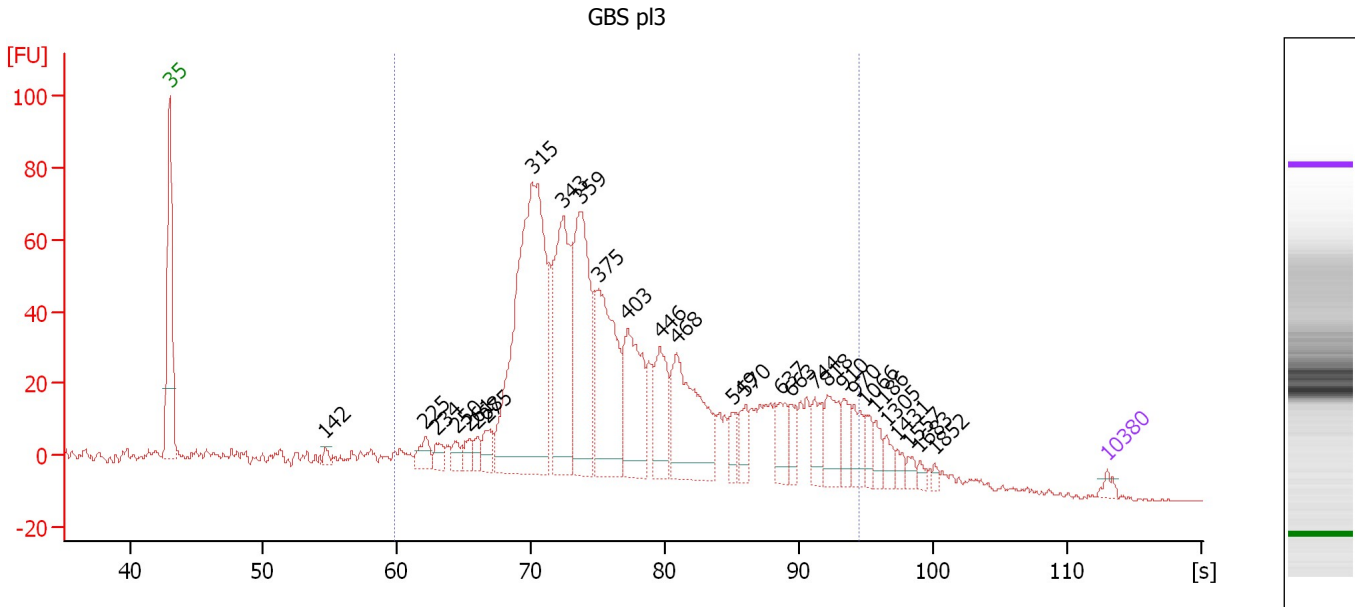
Region table for sample 3 : NEXTERA Yoong PI 5-7

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.86	94.49	661	738.5	305.87	355.3 87	20.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GBS pl3

Number of peaks found: 29 Corr. Area 1: 1,334.2
 Noise: 0.2

Peak table for sample 4 : GBS pl3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	142	118.64	1,262.4	
3	225	318.42	2,146.4	
4	234	216.67	1,403.1	
5	250	198.92	1,203.9	
6	261	225.46	1,308.5	
7	268	180.04	1,018.9	
8	275	313.01	1,725.3	
9	315	6,408.86	30,852.1	
10	343	2,764.23	12,203.5	
11	359	2,637.99	11,147.1	
12	375	2,408.27	9,728.6	
13	403	1,630.04	6,122.5	
14	446	932.56	3,166.5	
15	468	1,990.58	6,443.9	
16	549	233.90	645.0	
17	570	338.67	900.2	
18	637	456.13	1,085.1	
19	663	274.84	628.1	
20	744	423.30	862.0	
21	818	541.44	1,002.7	
22	910	298.05	496.3	
23	970	326.79	510.5	
24	1,066	204.96	291.2	
25	1,186	193.24	247.0	
26	1,305	164.33	190.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...**... Peak table for sample 4 : GBS pl3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,431	114.10	120.8	
28	1,557	99.25	96.6	
29	1,683	66.87	60.2	
30	1,852	54.49	44.6	
31	▶ 10,380	75.00	10.9	Upper Marker

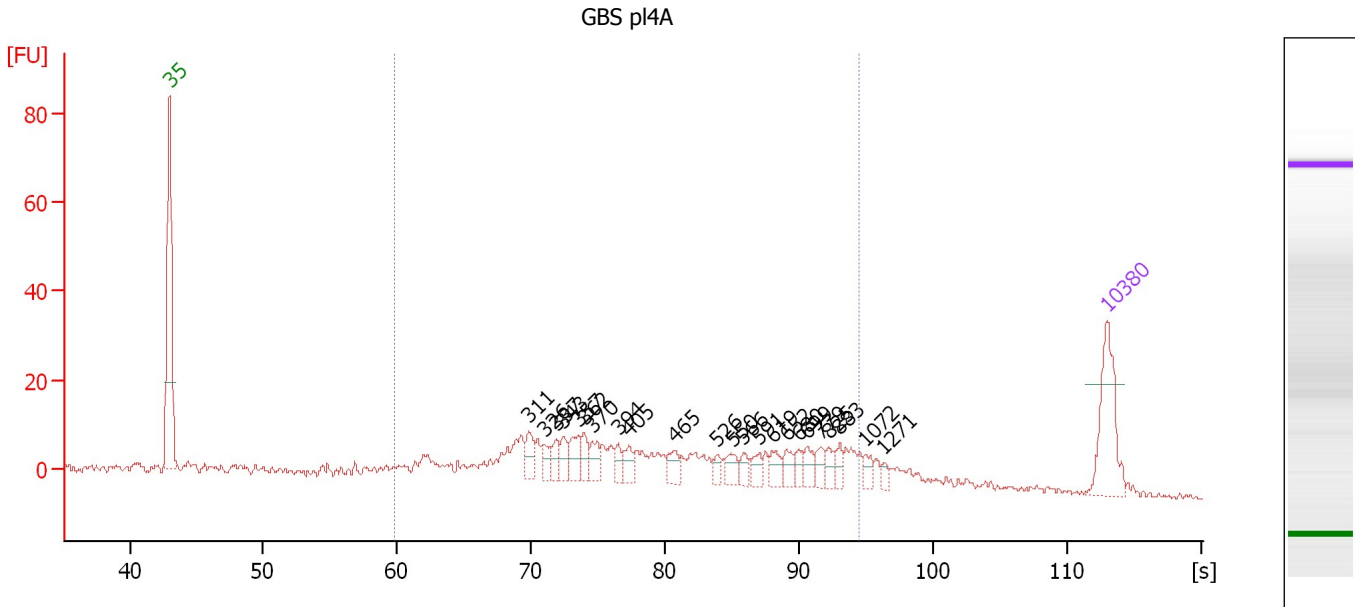
Region table for sample 4 : GBS pl3

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
59.86	94.49	440	98,722.0	24,817.67	1,334.2	92	37.4	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : GBS pl4A

Number of peaks found: 23 Corr. Area 1: 318.9
 Noise: 0.3

Peak table for sample 5 : GBS pl4A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	311	28.16	137.2	
3	326	17.46	81.3	
4	337	20.38	91.7	
5	343	21.45	94.8	
6	357	28.58	121.4	
7	362	20.43	85.4	
8	370	22.66	92.8	
9	394	15.05	57.8	
10	405	18.60	69.6	
11	465	20.17	65.7	
12	526	10.64	30.7	
13	550	19.04	52.4	
14	566	13.05	34.9	
15	591	15.39	39.4	
16	619	18.13	44.3	
17	652	17.14	39.8	
18	680	12.39	27.6	
19	699	17.79	38.6	
20	779	14.96	29.1	
21	825	15.15	27.8	
22	883	12.62	21.7	
23	1,072	11.20	15.8	
24	1,271	6.81	8.1	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

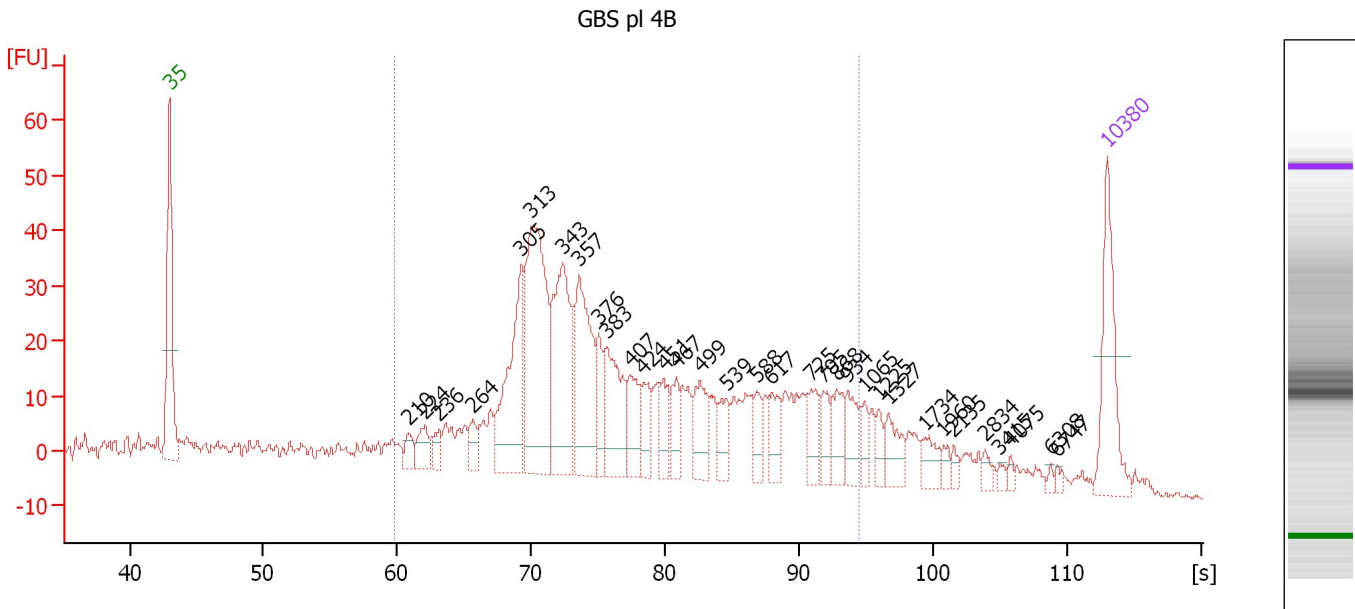
Electropherogram Summary Continued ...**... Region table for sample 5 : GBS pl4A**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Co lor
59.86	94.49	481	3,020.9	771.62	318.9	72	40.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : GBS pl 4B

Number of peaks found: 33 Corr. Area 1: 780.6
 Noise: 0.3

Peak table for sample 6 : GBS pl 4B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	210	18.20	131.0	
3	224	28.37	191.7	
4	236	17.68	113.3	
5	264	21.37	122.6	
6	305	143.06	711.0	
7	313	239.69	1,159.8	
8	343	169.39	749.0	
9	357	138.24	586.0	
10	376	40.69	163.8	
11	383	87.21	344.7	
12	407	47.25	176.1	
13	424	36.19	129.2	
14	451	28.34	95.2	
15	467	25.90	84.0	
16	499	49.72	151.0	
17	539	29.03	81.6	
18	588	20.45	52.7	
19	617	28.98	71.2	
20	725	30.85	64.5	
21	795	25.72	49.0	
22	868	29.44	51.4	
23	934	30.55	49.6	
24	1,065	15.38	21.9	
25	1,225	14.01	17.3	
26	1,327	26.64	30.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad


Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : GBS pl 4B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,734	17.22	15.0	
28	1,960	7.48	5.8	
29	2,135	6.22	4.4	
30	2,834	7.03	3.8	
31	3,415	4.69	2.1	
32	4,075	4.30	1.6	
33	6,308	3.18	0.8	
34	6,747	3.58	0.8	
35	▶ 10,380	75.00	10.9	Upper Marker

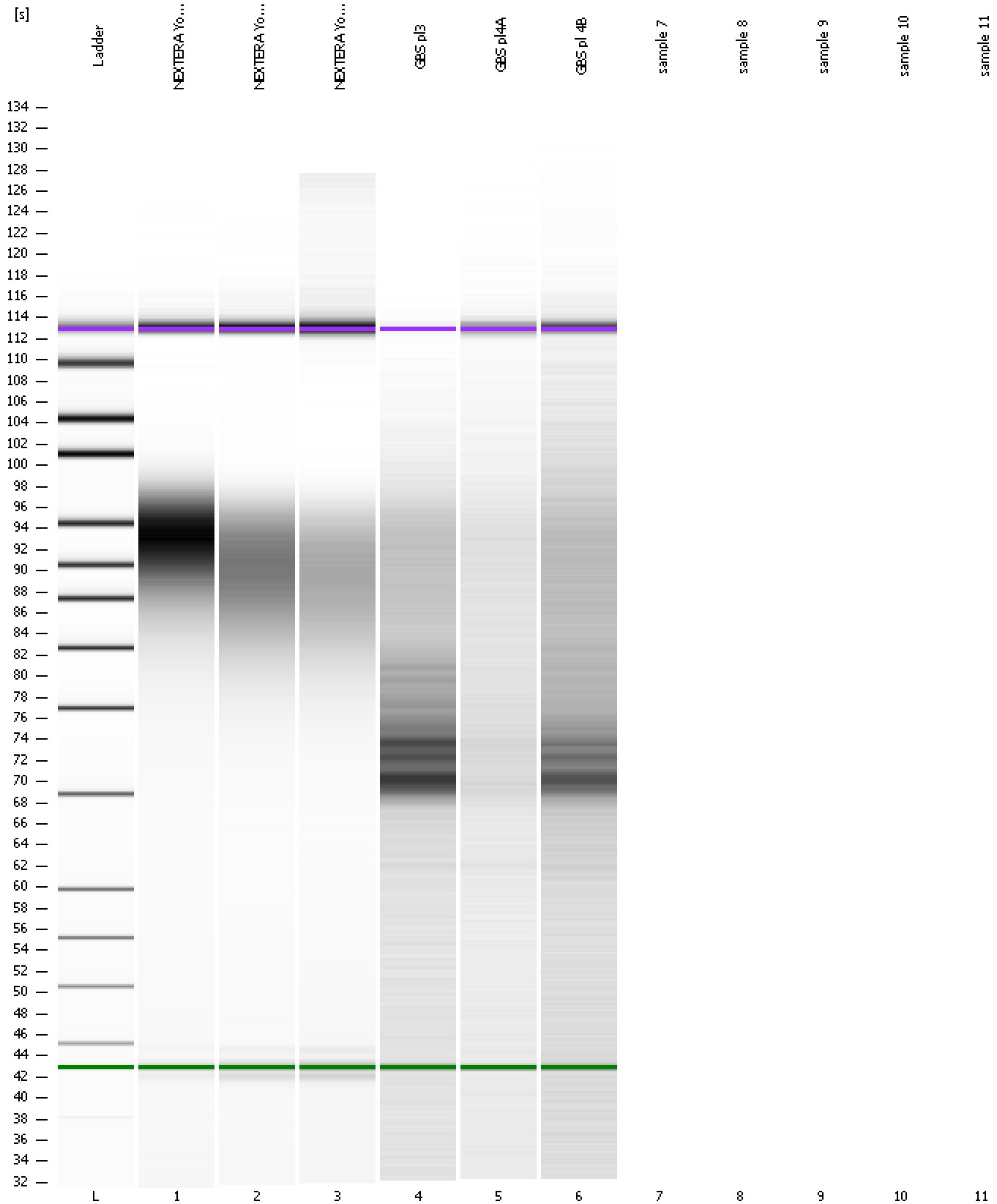
Region table for sample 6 : GBS pl 4B

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
59.86	94.49	451	6,216.6	1,554.62	780.6	80	39.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
Modified: 6/10/2013 10:56:03 AM

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\2013-06-10\2013-06-10_002.xad

Created: 6/10/2013 10:28:59 AM
 Modified: 6/10/2013 10:56:03 AM

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		6/10/2013 10:56:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-10\2013-06-10_002.xad)		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/10/2013 10:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1