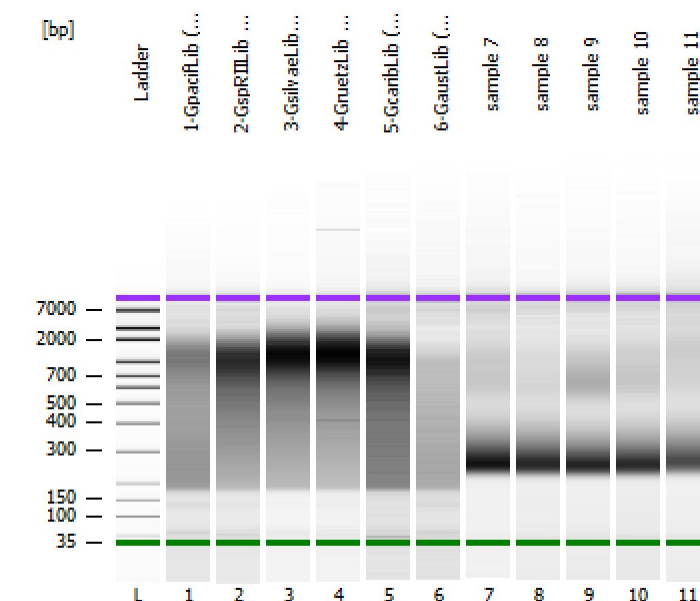


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electrophoresis File Run Summary



Instrument Information:

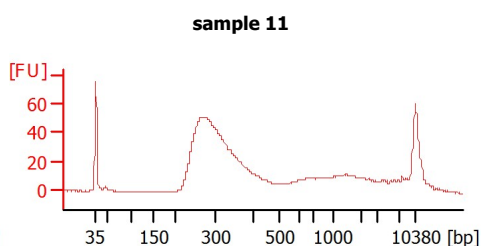
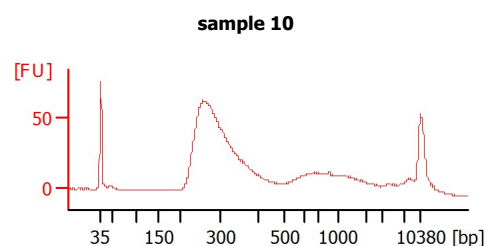
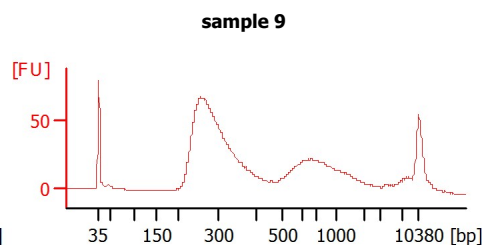
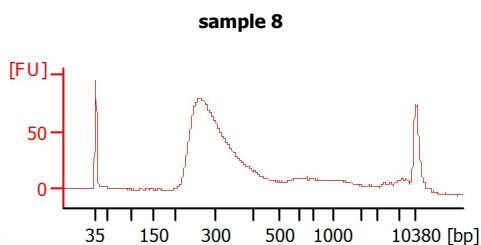
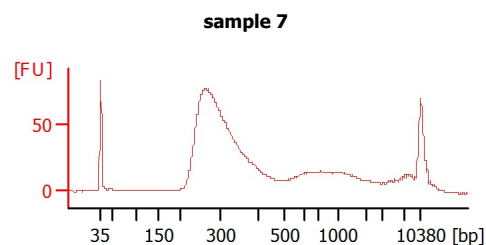
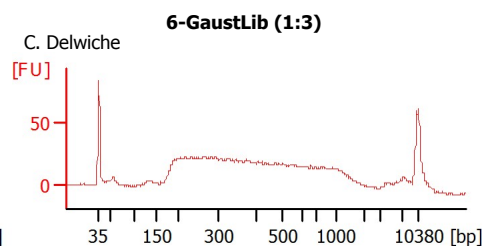
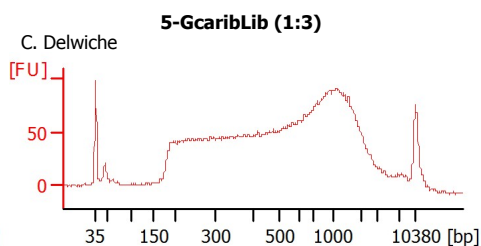
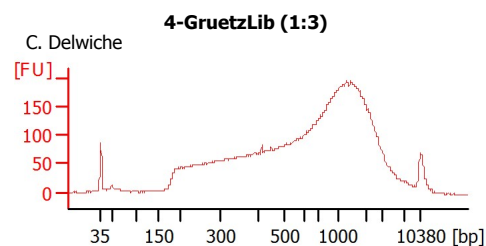
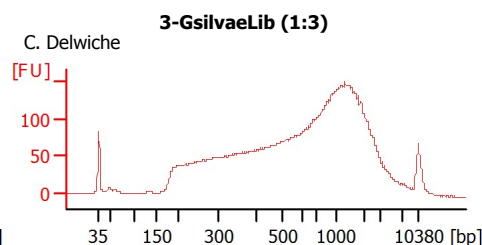
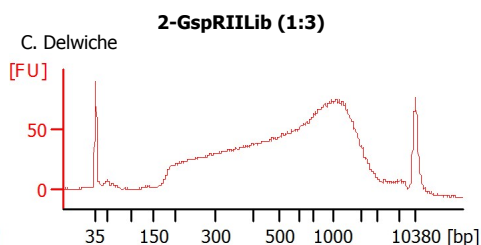
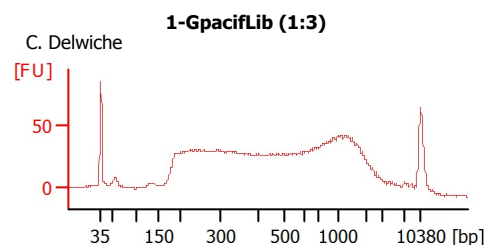
Instrument Name:
Serial#: DE24802100
Firmware: C.01.069
Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status Observation	Result Label	Result Color
1-GpacifLib (1:3)	C. Delwiche	<input type="checkbox"/>	✓		
2-GspRIILib (1:3)	C. Delwiche	<input type="checkbox"/>	✓		
3-GsilvaeLib (1:3)	C. Delwiche	<input type="checkbox"/>	✓		
4-GruetzLib (1:3)	C. Delwiche	<input type="checkbox"/>	✓		
5-GcaribLib (1:3)	C. Delwiche	<input type="checkbox"/>	✓		
6-GaustLib (1:3)	C. Delwiche	<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:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 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

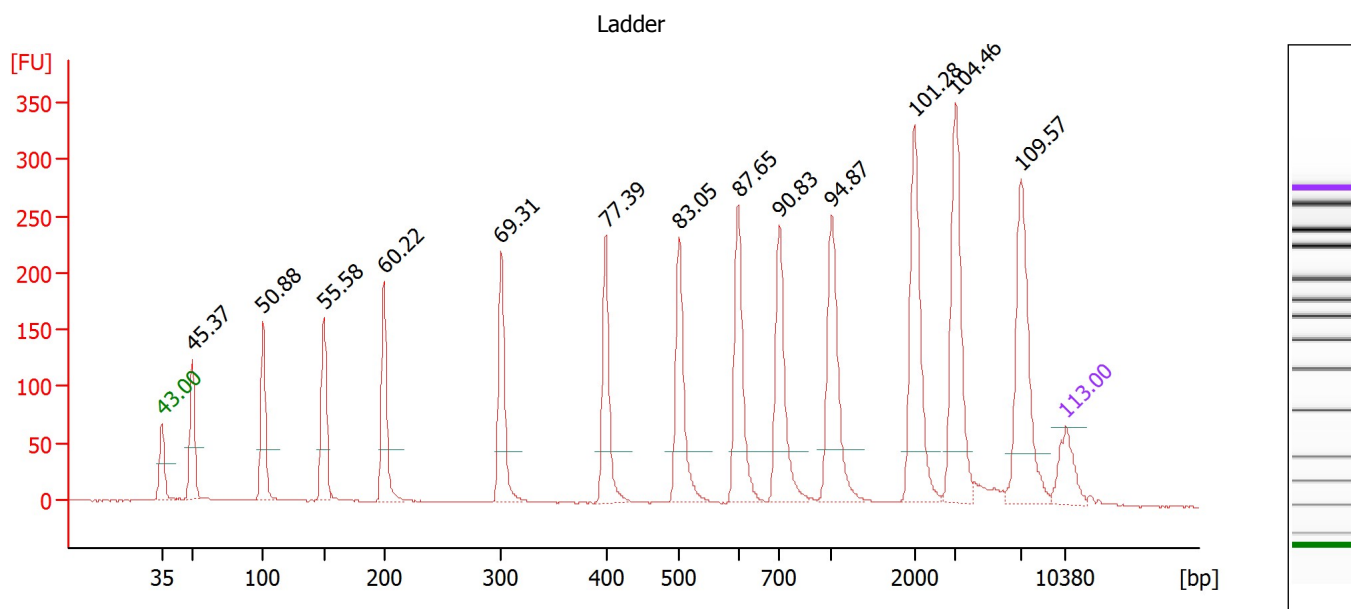
Ladder

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:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary



Overall Results for Ladder

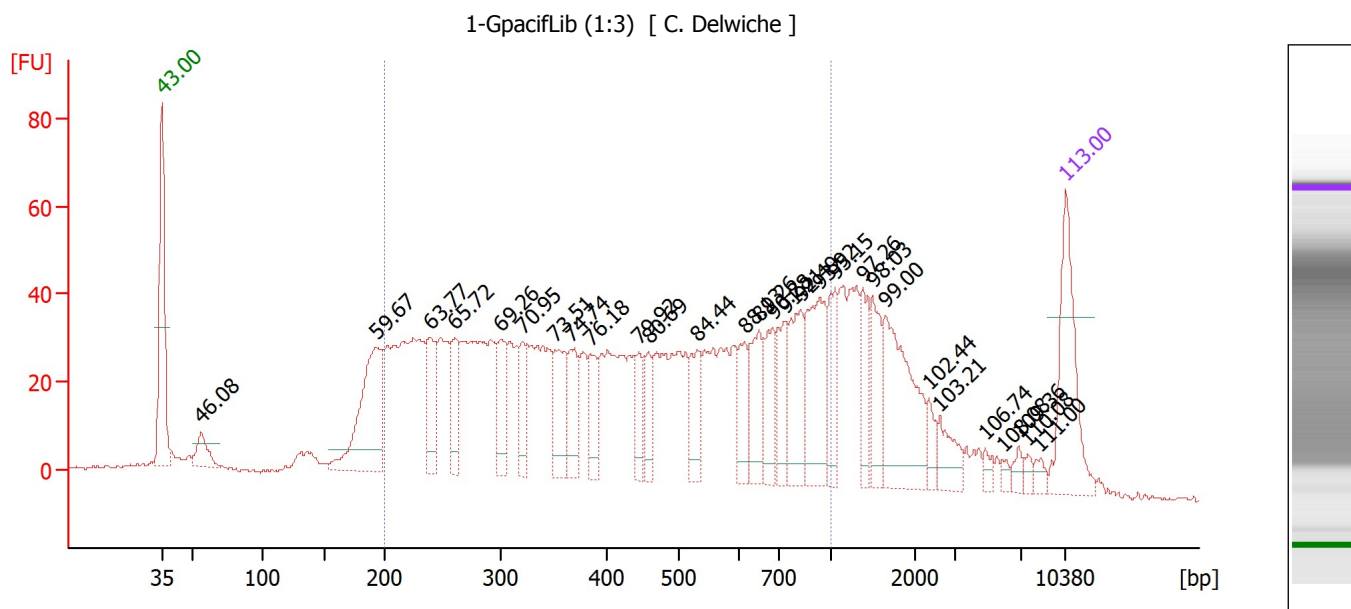
Noise: 0.4

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:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : 1-GpacifLib (1:3)**

Number of peaks found: 29 Corr. Area 1: 1,445.3
 Noise: 0.4

Peak table for sample 1 : 1-GpacifLib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	30.20	811.5	
3	194	149.46	1,167.2	
4	239	56.26	356.6	
5	260	49.83	289.9	
6	299	45.65	231.0	
7	320	39.70	187.8	
8	352	54.20	233.3	
9	367	47.11	194.4	
10	385	34.23	134.7	
11	445	34.80	118.6	
12	458	30.02	99.3	
13	530	37.33	106.7	
14	615	34.16	84.1	
15	651	49.60	115.5	
16	683	40.08	88.9	
17	728	41.44	86.3	
18	823	60.93	112.1	
19	930	85.79	139.8	
20	1,044	37.18	53.9	
21	1,372	30.45	33.6	
22	1,492	36.07	36.6	
23	1,644	99.05	91.3	
24	2,362	11.99	7.7	
25	2,604	23.45	13.6	
26	4,787	6.15	1.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 1 : 1-GpacifLib (1:3)**

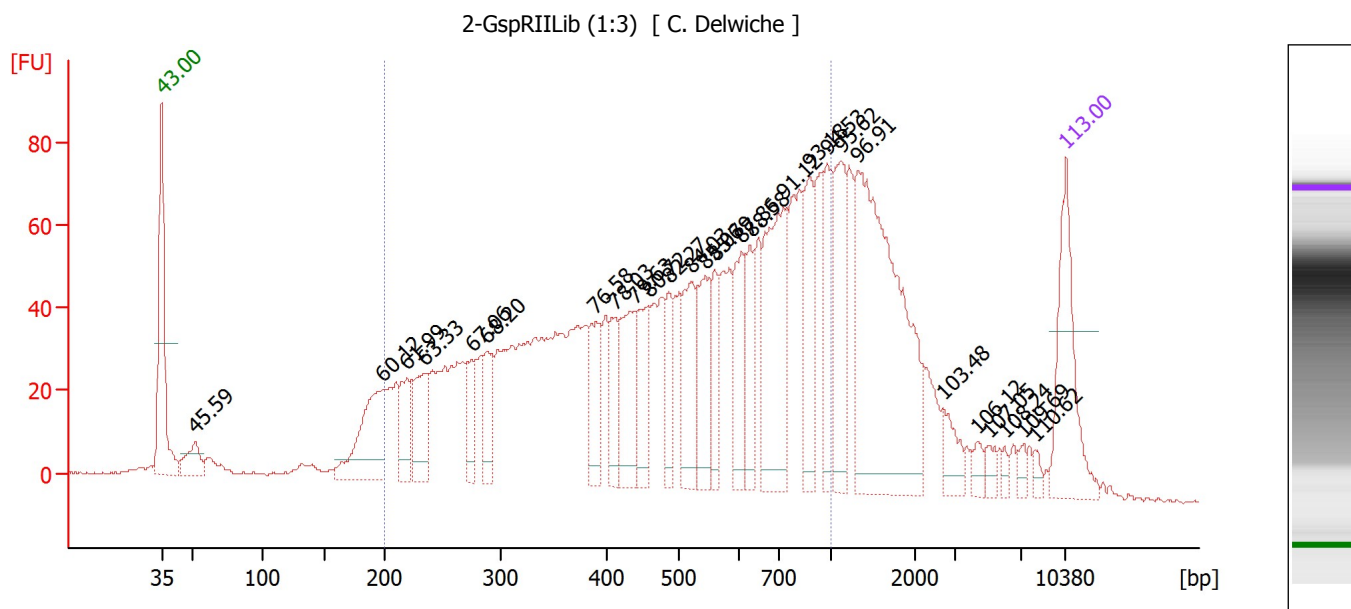
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,833	4.74	1.2	
28	6,838	7.40	1.6	
29	7,503	5.01	1.0	
30	8,412	6.35	1.1	
31	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : 1-GpacifLib (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,445.3	70	467	44.3	1,943.29	8,214.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : 2-GspRIILib (1:3)**

Number of peaks found: 27 Corr. Area 1: 1,867.9
 Noise: 0.3

Peak table for sample 2 : 2-GspRIILib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	32.37	944.4	
3	199	105.91	806.5	
4	219	45.52	314.3	
5	234	61.84	400.1	
6	275	34.89	192.1	
7	288	36.27	191.0	
8	390	52.32	203.3	
9	411	35.97	132.6	
10	440	72.52	250.0	
11	459	54.04	178.5	
12	486	38.91	121.3	
13	521	69.19	201.1	
14	544	57.23	159.5	
15	560	39.38	106.6	
16	607	58.33	145.7	
17	629	41.67	100.3	
18	721	135.24	284.1	
19	875	63.77	110.4	
20	975	48.38	75.2	
21	1,117	68.84	93.4	
22	1,318	258.36	297.0	
23	2,691	20.48	11.5	
24	4,297	8.69	3.1	
25	5,028	8.39	2.5	
26	5,961	5.39	1.4	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : 2-GspRIILib (1:3)**

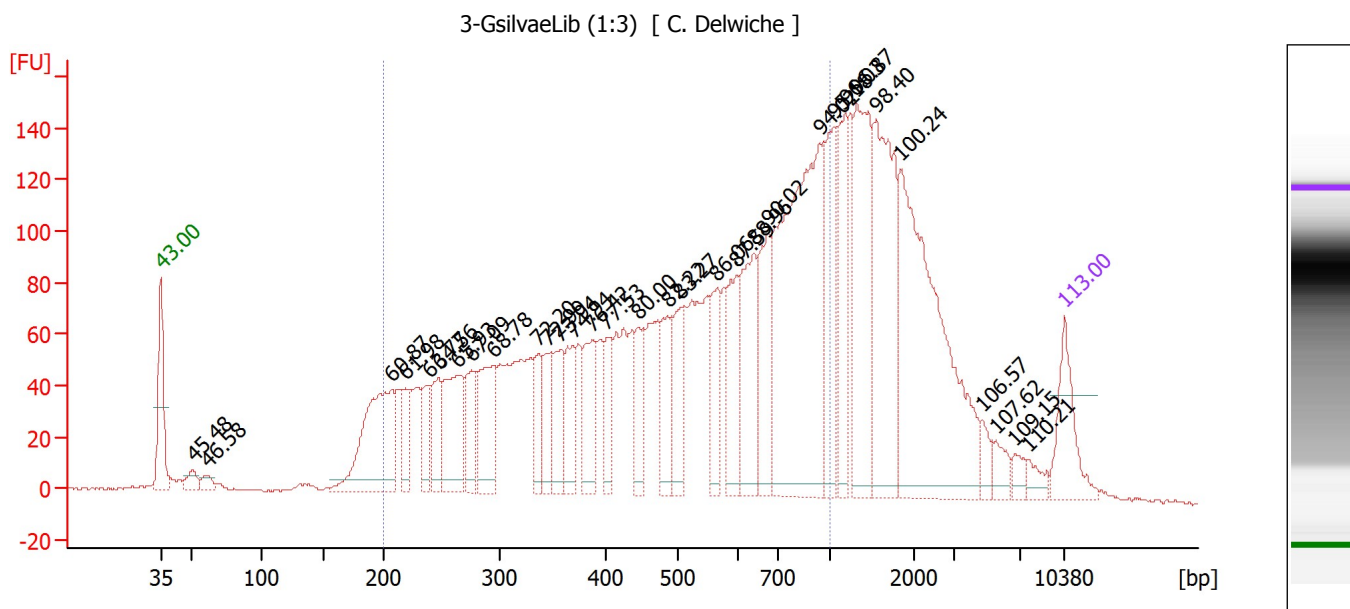
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	7,121	5.83	1.2	
28	8,038	5.08	1.0	
29	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : 2-GspRIILib (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,867.9	71	519	40.6	1,980.48	7,464.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : 3-GsilvaeLib (1:3)**

Number of peaks found: 32 Corr. Area 1: 2,930.5
 Noise: 0.3

Peak table for sample 3 : 3-GsilvaeLib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	25.79	767.0	
3	61	19.79	491.7	
4	207	263.52	1,927.8	
5	219	63.75	440.5	
6	239	62.51	396.3	
7	248	83.78	512.5	
8	263	147.89	852.7	
9	276	79.82	438.9	
10	294	139.35	717.9	
11	336	64.46	290.9	
12	346	64.08	281.0	
13	357	88.07	373.5	
14	370	87.47	358.5	
15	388	97.07	379.1	
16	402	63.27	238.3	
17	446	70.01	237.8	
18	485	93.31	291.4	
19	505	100.85	302.7	
20	566	85.87	230.0	
21	599	102.81	260.1	
22	641	151.43	357.7	
23	675	127.73	286.9	
24	937	519.49	839.8	
25	1,049	137.92	199.2	
26	1,181	123.93	159.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 3 : 3-GsilvaeLib (1:3)**

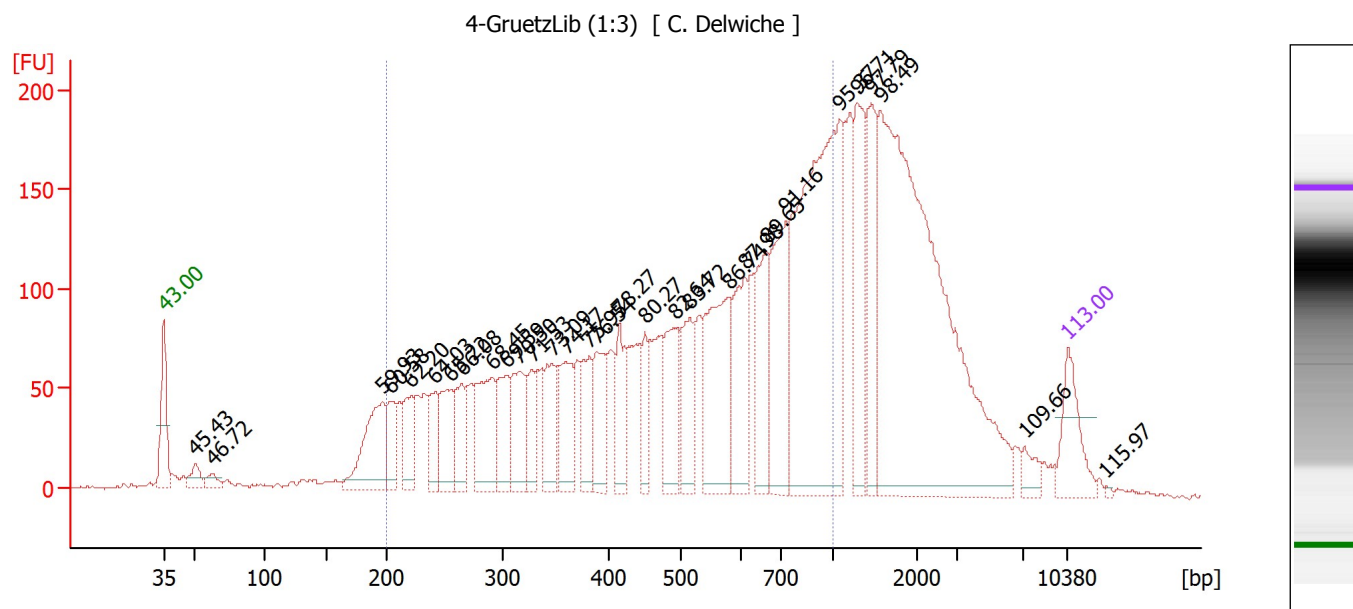
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,312	230.65	266.3	
28	1,550	257.98	252.1	
29	1,838	417.82	344.4	
30	4,650	20.23	6.6	
31	5,477	23.50	6.5	
32	6,676	15.15	3.4	
33	7,631	16.33	3.2	
34	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : 3-GsilvaeLib (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,930.5	66	524	41.1	3,578.12	13,478.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : 4-GruetzLib (1:3)**

Number of peaks found: 30 Corr. Area 1: 3,481.2
 Noise: 1.2

Peak table for sample 4 : 4-GruetzLib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	34.35	1,031.1	
3	62	24.33	592.4	
4	197	183.55	1,412.4	
5	204	69.53	516.5	
6	222	89.08	608.7	
7	242	69.57	435.7	
8	255	109.23	649.1	
9	264	80.38	460.5	
10	291	160.07	834.7	
11	303	95.93	479.1	
12	315	126.95	611.2	
13	327	65.12	301.4	
14	347	100.50	439.1	
15	360	114.28	480.8	
16	382	83.36	330.5	
17	389	95.49	371.5	
18	415	93.83	342.2	
19	451	68.03	228.7	
20	493	118.43	364.2	
21	514	104.72	308.4	
22	580	225.30	588.3	
23	610	141.44	351.1	
24	663	147.29	336.6	
25	725	197.75	413.5	
26	1,077	611.38	859.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 4 : 4-GruetzLib (1:3)**

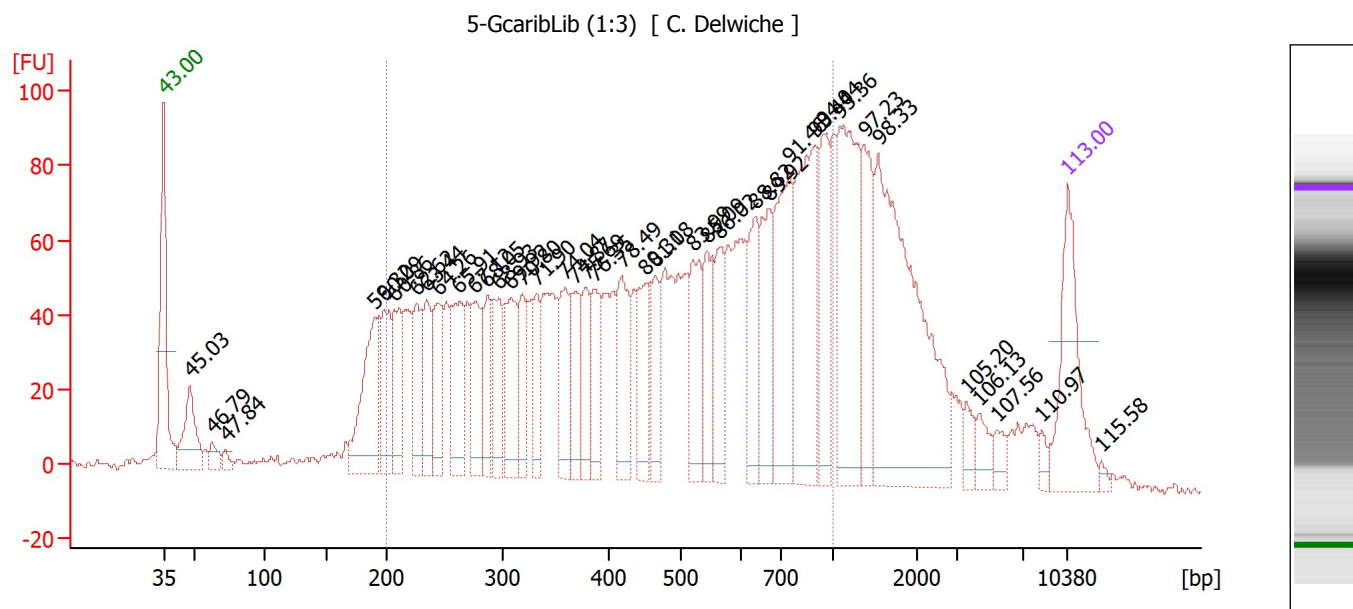
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,288	158.91	187.0	
28	1,456	128.83	134.1	
29	1,565	887.68	859.4	
30	7,089	23.13	4.9	
31	10,380	75.00	10.9	Upper Marker
32	13,299	0.00	0.0	

Region table for sample 4 : 4-GruetzLib (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,481.2	62	532	41.0	3,644.45	13,576.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : 5-GcaribLib (1:3)**

Number of peaks found: 39 Corr. Area 1: 2,421.9
 Noise: 1.0

Peak table for sample 5 : 5-GcaribLib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	68.24	2,161.0	
3	63	15.33	369.5	
4	72	8.75	183.3	
5	190	110.31	878.4	
6	199	75.38	575.2	
7	207	61.86	452.8	
8	226	59.98	401.5	
9	235	59.62	383.8	
10	244	62.74	388.9	
11	263	73.00	421.2	
12	276	62.75	344.6	
13	286	50.87	269.3	
14	296	61.43	314.6	
15	308	70.73	348.5	
16	318	51.60	245.5	
17	332	47.00	214.5	
18	359	59.49	251.4	
19	369	51.36	211.1	
20	379	44.05	176.1	
21	387	43.07	168.6	
22	419	65.72	237.4	
23	452	54.72	183.6	
24	465	46.11	150.2	
25	520	70.46	205.1	
26	544	46.98	130.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : 5-GcaribLib (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	565	56.74	152.2	
28	637	67.52	160.6	
29	672	67.17	151.6	
30	747	115.25	233.8	
31	894	137.13	232.4	
32	939	67.42	108.8	
33	1,077	137.90	194.0	
34	1,368	65.21	72.2	
35	1,540	243.75	239.9	
36	3,575	12.05	5.1	
37	4,307	14.72	5.2	
38	5,428	10.65	3.0	
39	8,379	6.63	1.2	
40	10,380	75.00	10.9	Upper Marker
41	12,922	0.00	0.0	

Region table for sample 5 : 5-GcaribLib (1:3)

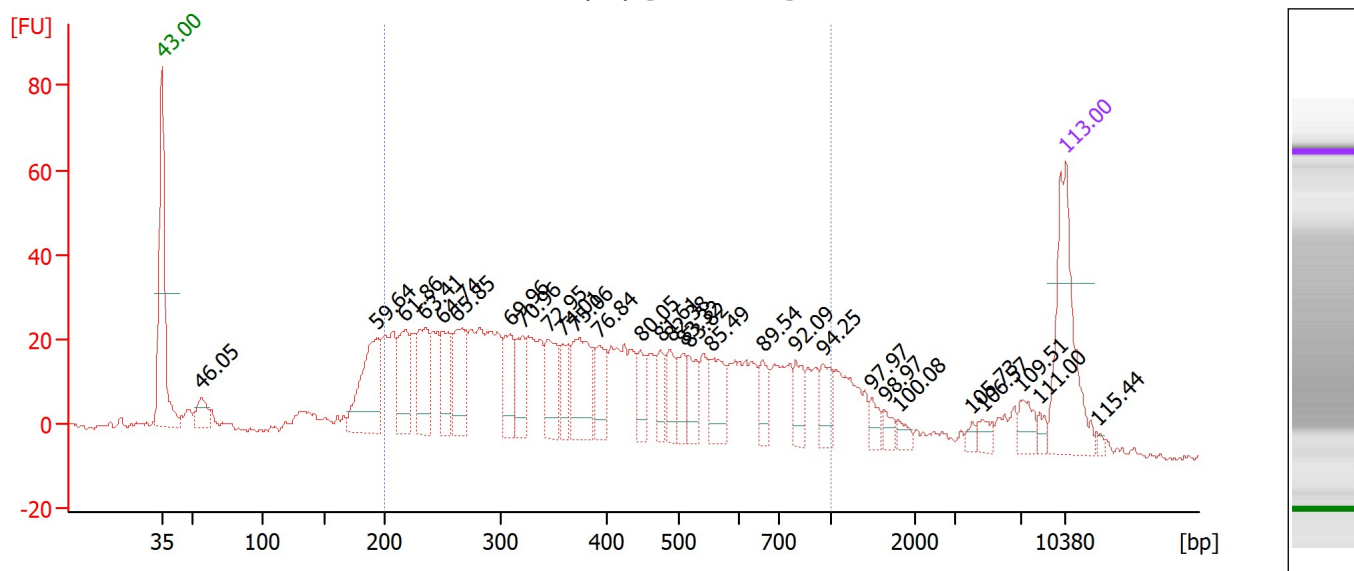
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,421.9	70	497	42.9	2,321.48	9,266.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
 Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...

6-GaustLib (1:3) [C. Delwiche]

**Overall Results for sample 6 : 6-GaustLib (1:3)**

Number of peaks found: 29 Corr. Area 1: 968.3
 Noise: 0.4

Peak table for sample 6 : 6-GaustLib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	22.73	613.3	
3	194	86.95	680.0	
4	218	51.48	357.8	
5	235	53.81	346.8	
6	250	35.00	212.4	
7	262	53.55	309.7	
8	308	36.75	180.8	
9	320	35.38	167.4	
10	345	40.14	176.2	
11	358	24.86	105.2	
12	371	59.47	242.8	
13	393	27.78	107.1	
14	447	20.59	69.8	
15	474	20.28	64.7	
16	488	21.59	67.0	
17	506	19.31	57.8	
18	517	22.64	66.4	
19	553	31.66	86.7	
20	659	18.09	41.6	
21	794	19.47	37.2	
22	954	20.67	32.8	
23	1,483	8.74	8.9	
24	1,639	7.17	6.6	
25	1,812	5.65	4.7	
26	3,995	4.05	1.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Electropherogram Summary Continued ...**... Peak table for sample 6 : 6-GaustLib (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,648	7.12	2.3	
28	6,953	12.94	2.8	
29	8,415	5.38	1.0	
30	10,380	75.00	10.9	Upper Marker
31	12,782	0.00	0.0	

Region table for sample 6 : 6-GaustLib (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	968.3	78	433	43.6	1,155.49	5,111.7	

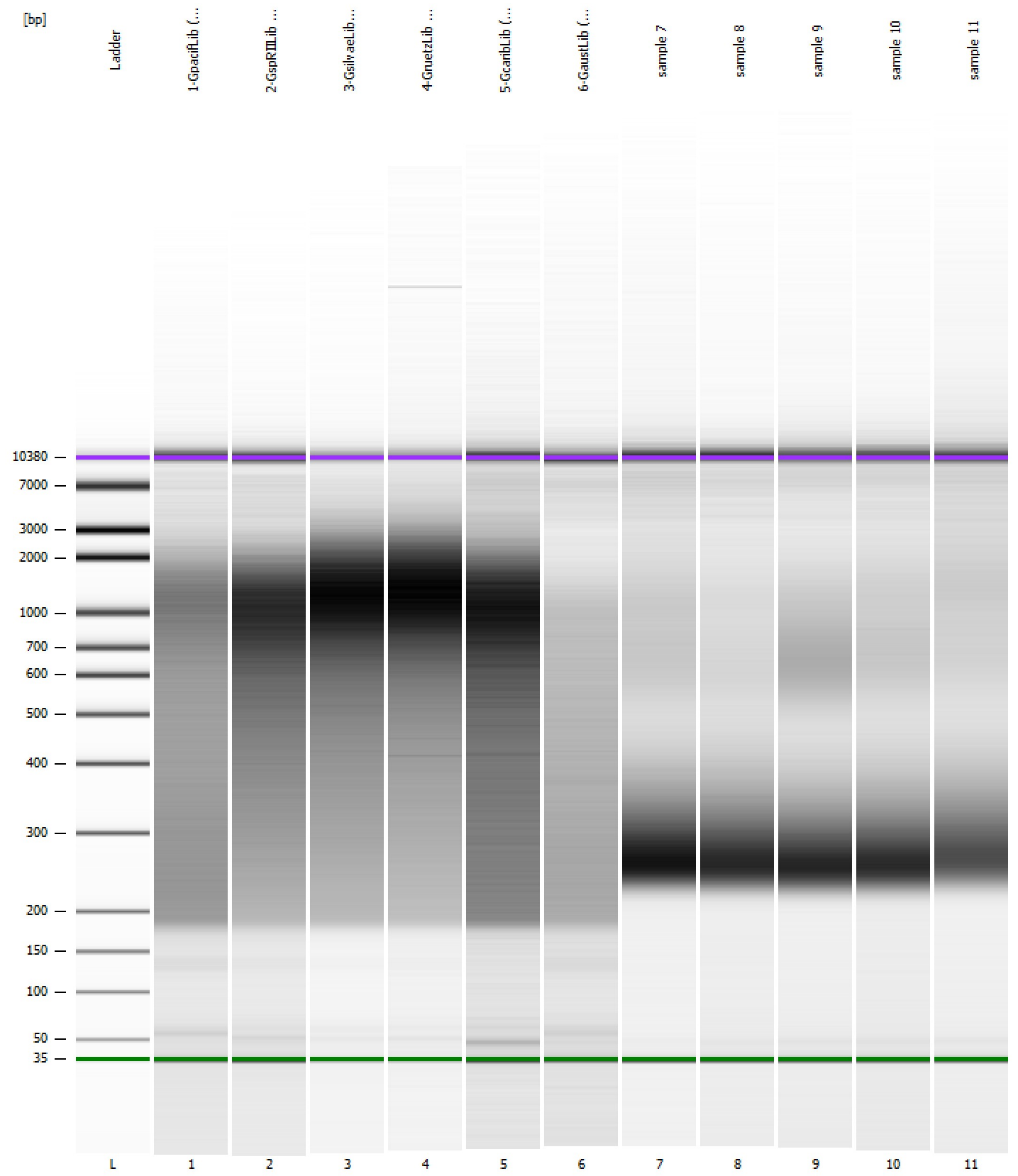
Assay Class: High Sensitivity DNA Assay

Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM

Modified: 5/26/2017 6:30:29 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-26_17-44-08.xad

Created: 5/26/2017 5:44:07 PM
Modified: 5/26/2017 6:30:29 PM

Curves

Standard Curve

