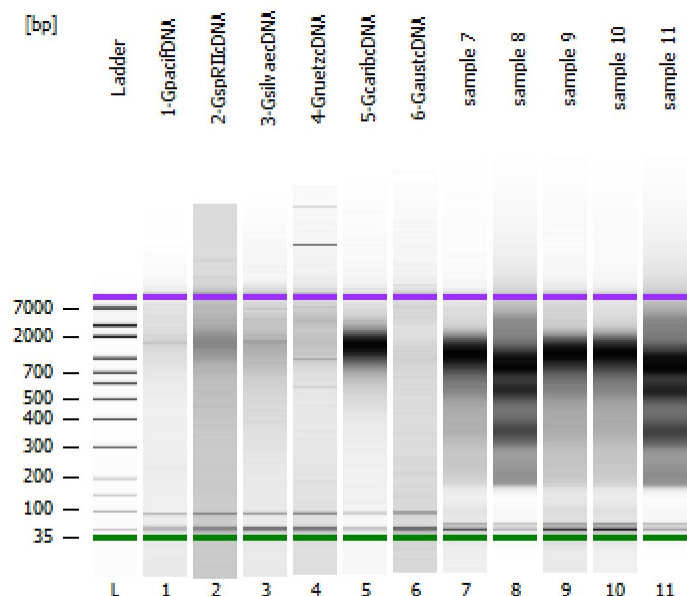


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

Electrophoresis File Run Summary



Instrument Information:

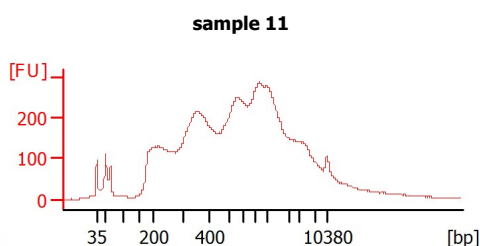
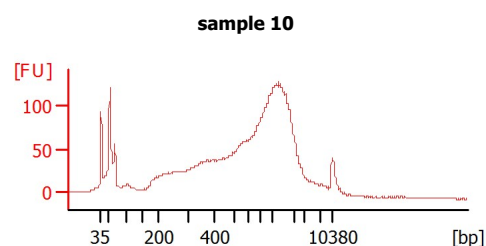
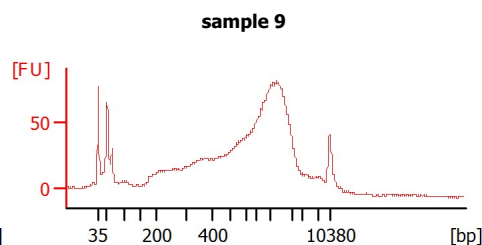
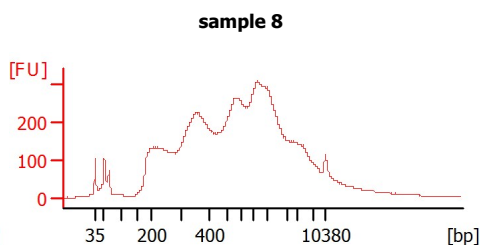
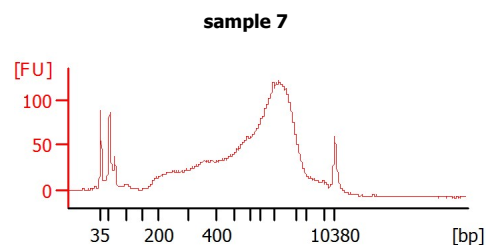
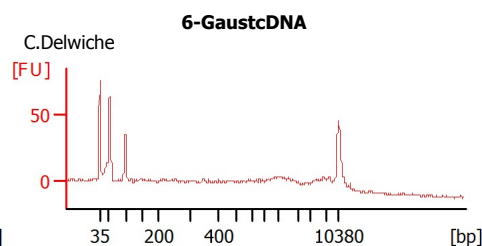
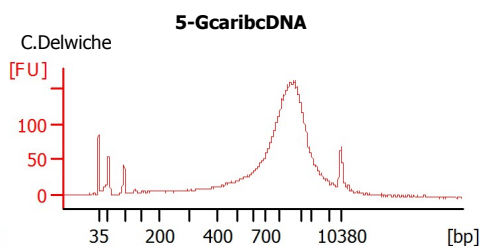
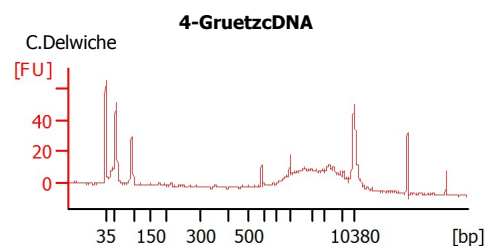
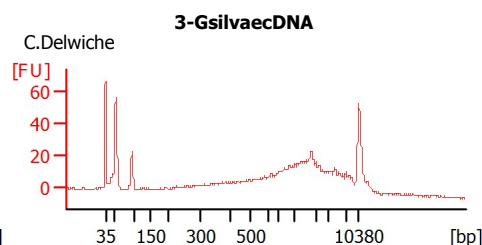
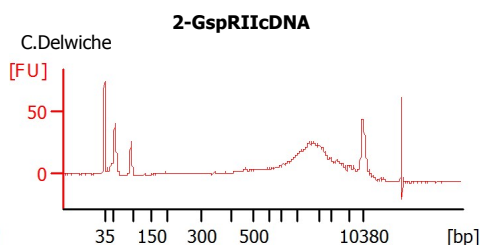
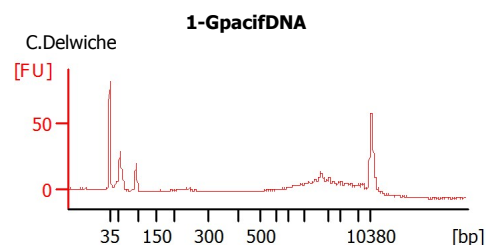
Instrument Name:
Serial#: DE24802100
Firmware: C.01.069
Type: G2938B

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_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status Observation	Result Label	Result Color
1-GpacifDNA	C.Delwiche	<input type="checkbox"/>	✓		
2-GspRIIcDNA	C.Delwiche	<input type="checkbox"/>	✓		
3-GsilvaecDNA	C.Delwiche	<input type="checkbox"/>	✓		
4-GruetzcdDNA	C.Delwiche	<input type="checkbox"/>	✓		
5-GcaribcdDNA	C.Delwiche	<input type="checkbox"/>	✓		
6-GaustcdDNA	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_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 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

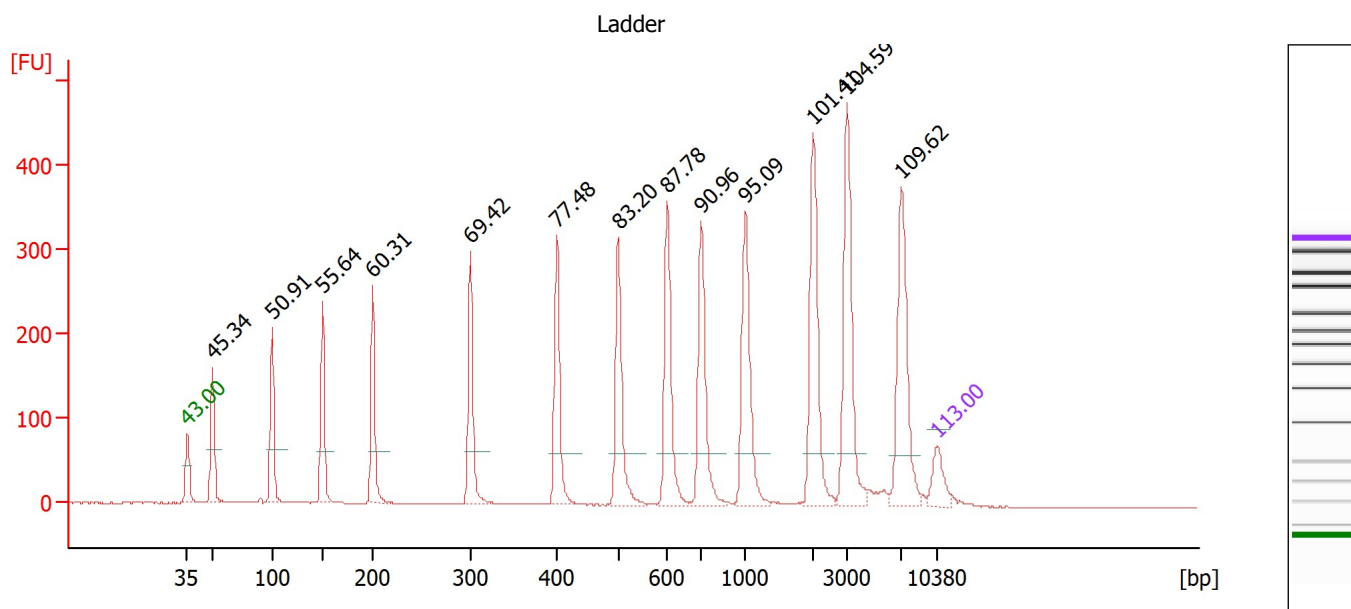
Ladder

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:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

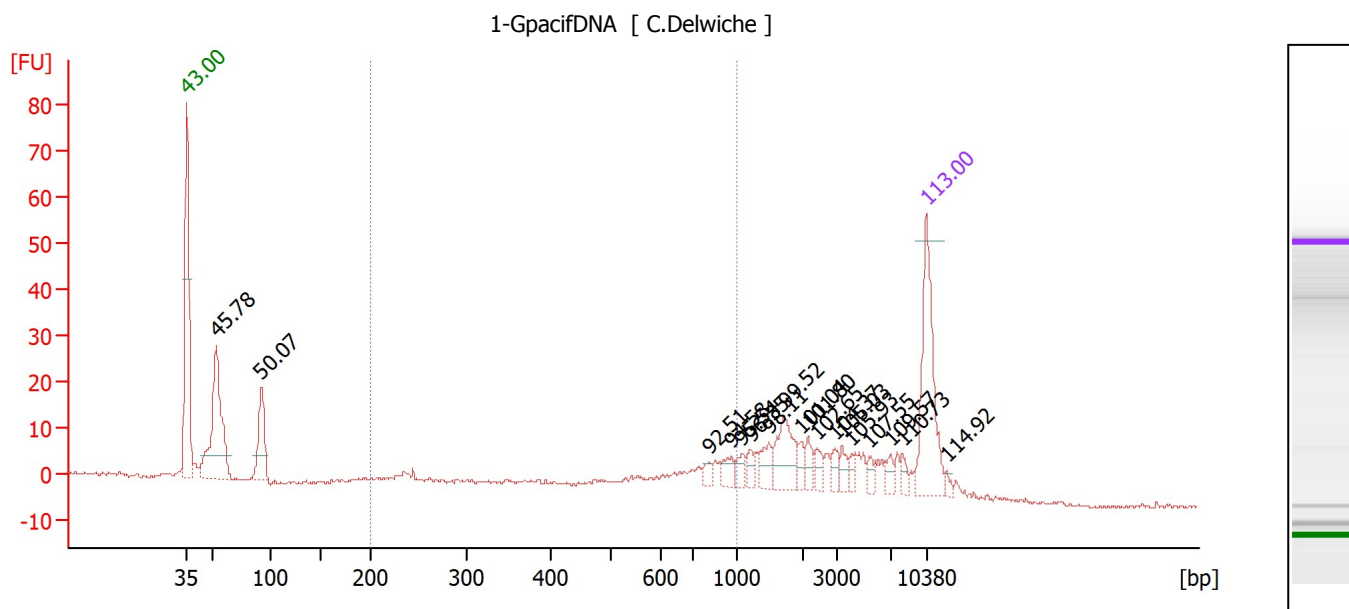
Peak table for Ladder

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_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1-GpacifDNA

Number of peaks found: 18 Corr. Area 1: 91.3
 Noise: 0.3

Peak table for sample 1 : 1-GpacifDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	159.09	4,469.9	
3	92	60.73	995.5	
4	813	7.06	13.2	
5	963	11.14	17.5	
6	1,071	8.69	12.3	
7	1,199	7.76	9.8	
8	1,478	15.35	15.7	
9	1,702	35.55	31.7	
10	1,942	7.75	6.0	
11	2,122	9.92	7.1	
12	2,391	8.55	5.4	
13	2,930	7.90	4.1	
14	3,345	7.99	3.6	
15	4,069	6.00	2.2	
16	5,354	6.62	1.9	
17	6,961	7.19	1.6	
18	8,111	5.99	1.1	
19	10,380	75.00	10.9	Upper Marker
20	12,296	0.00	0.0	

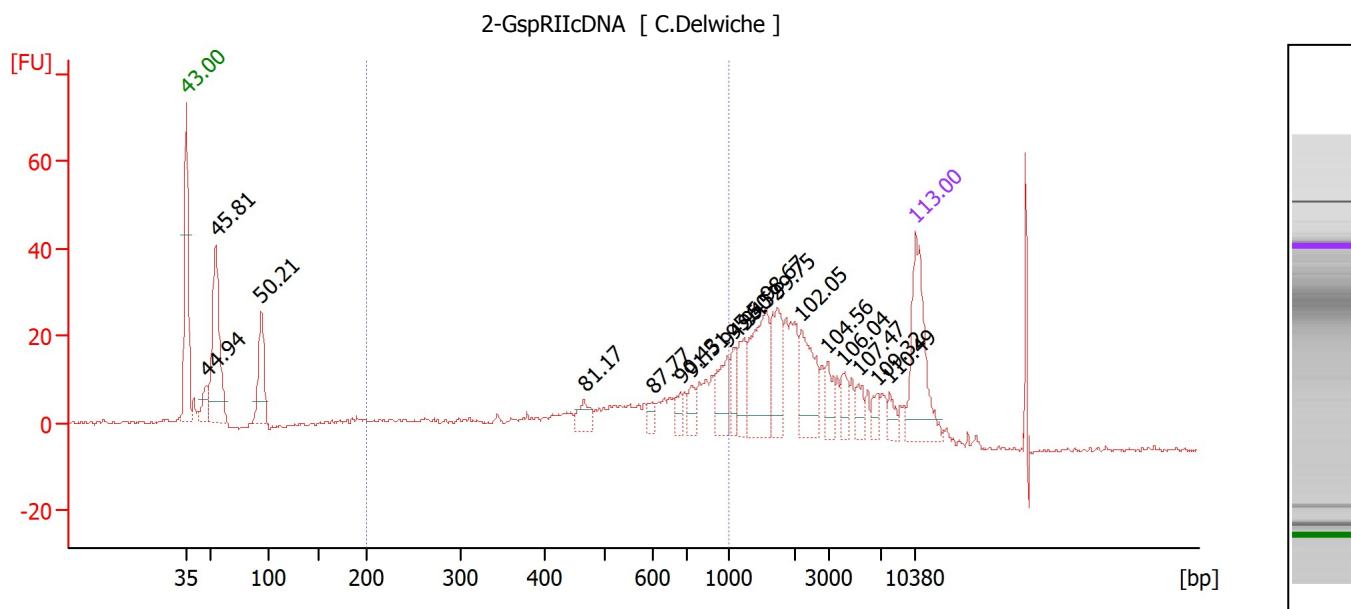
Region table for sample 1 : 1-GpacifDNA

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	91.3	25	601	38.3	145.92	497.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2-GspRIIcDNA

Number of peaks found: 18 Corr. Area 1: 248.3
 Noise: 0.6

Peak table for sample 2 : 2-GspRIIcDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	29.22	932.7	
3	54	171.07	4,775.9	
4	94	76.74	1,240.1	
5	465	20.83	67.9	
6	600	9.36	23.6	
7	683	12.76	28.3	
8	740	15.77	32.3	
9	989	35.01	53.6	
10	1,065	18.89	26.9	
11	1,227	31.06	38.4	
12	1,567	71.97	69.6	
13	1,737	45.95	40.1	
14	2,202	48.73	33.5	
15	2,989	16.81	8.5	
16	4,153	13.92	5.1	
17	5,294	12.55	3.6	
18	6,760	10.12	2.3	
19	7,875	9.82	1.9	
20	10,380	75.00	10.9	Upper Marker

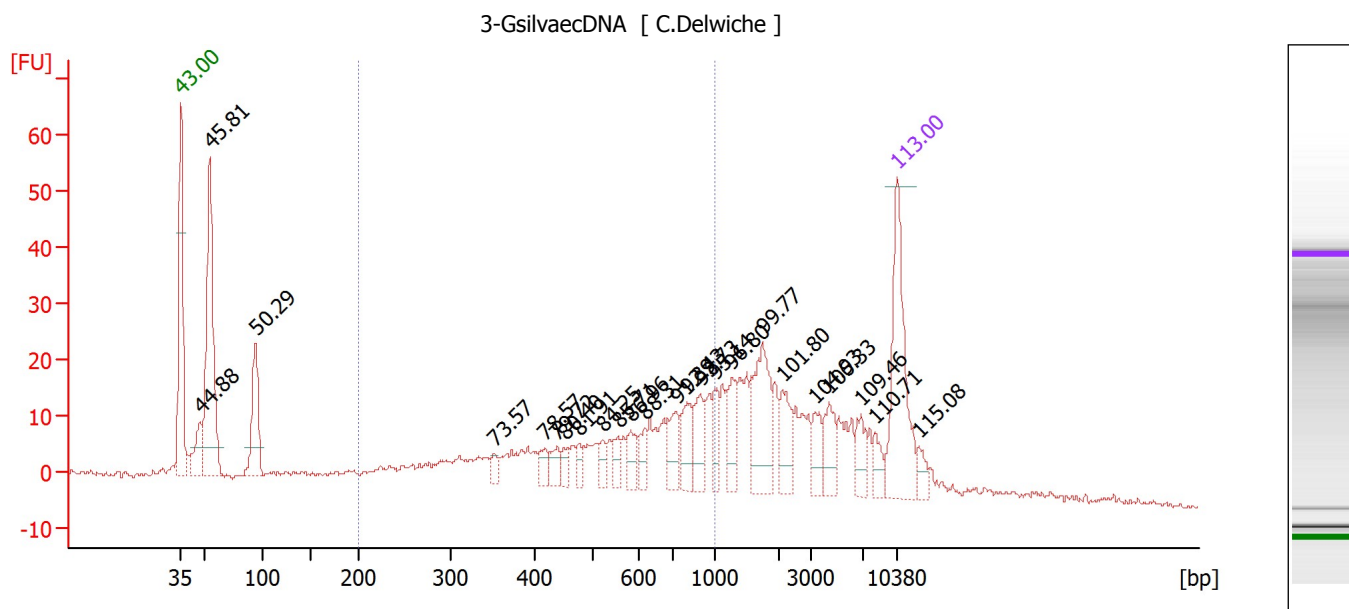
Region table for sample 2 : 2-GspRIIcDNA

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	248.3	34	577	38.1	414.76	1,411.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3-GsilvaecDNA

Number of peaks found: 24 Corr. Area 1: 296.7
 Noise: 0.5

Peak table for sample 3 : 3-GsilvaecDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	37.93	1,222.0	
3	54	199.40	5,568.4	
4	94	71.69	1,150.1	
5	352	8.92	38.4	
6	419	12.21	44.1	
7	439	12.97	44.8	
8	451	10.45	35.1	
9	477	9.12	29.0	
10	523	9.51	27.6	
11	555	11.36	31.0	
12	582	15.92	41.4	
13	617	13.77	33.8	
14	731	24.26	50.3	
15	807	25.93	48.7	
16	901	24.59	41.3	
17	1,007	16.97	25.5	
18	1,271	22.62	27.0	
19	1,741	55.93	48.7	
20	2,124	24.72	17.6	
21	3,267	16.25	7.5	
22	4,386	20.93	7.2	
23	6,874	14.56	3.2	
24	8,090	10.54	2.0	
25	10,380	75.00	10.9	Upper Marker
26	12,461	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

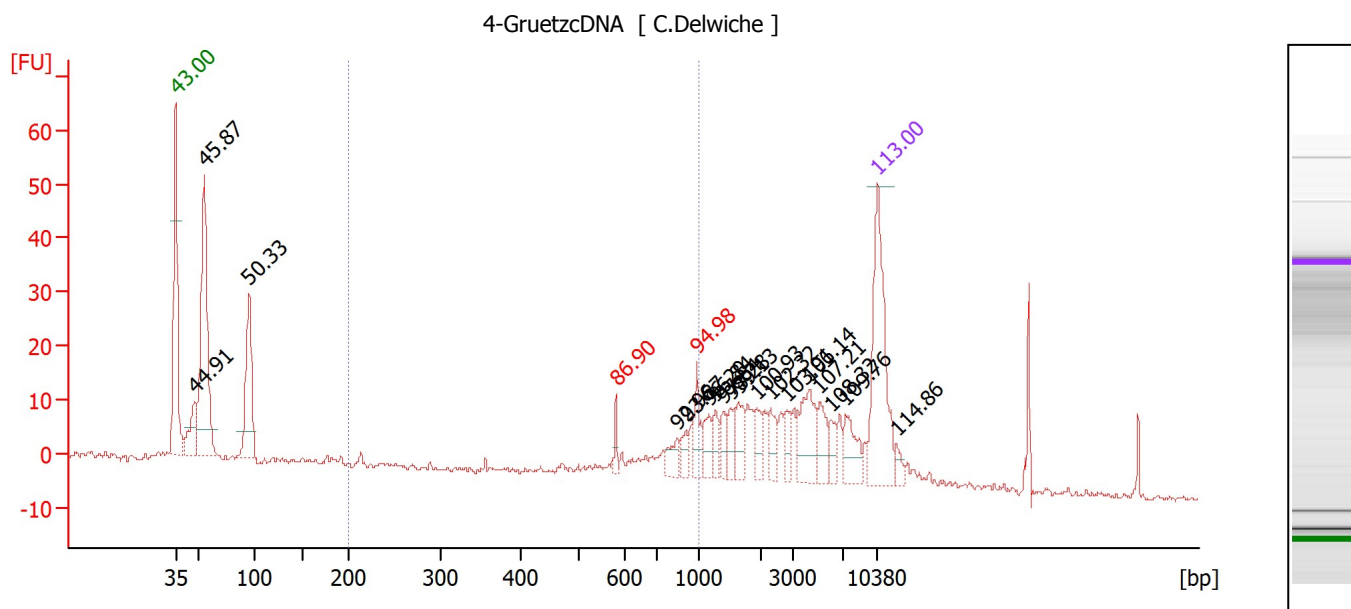
Electropherogram Summary Continued ...**... Region table for sample 3 :****3-GsilvaecDNA**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Co lor
200	1,000	296.7	39	564	37.5	444.68	1,508.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4-GruetzcdNA

Number of peaks found: 18 Corr. Area 1: 51.0
 Noise: 0.5

Peak table for sample 4 : 4-GruetzcdNA

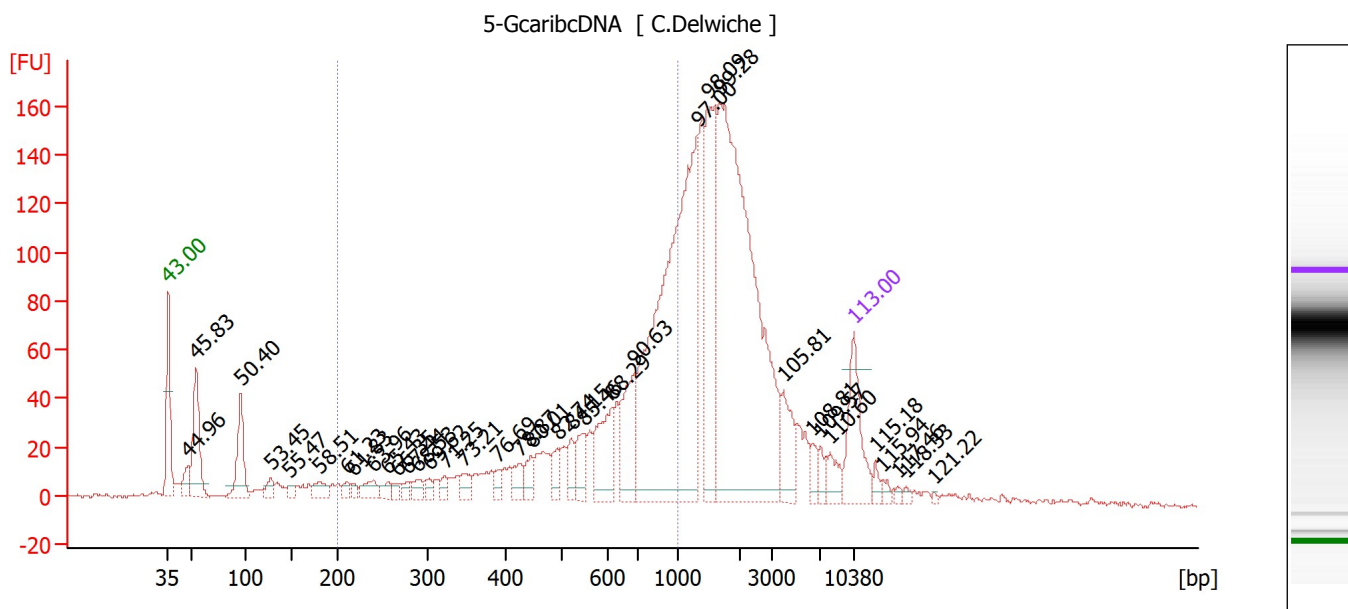
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	39.46	1,264.7	
3	55	189.29	5,236.2	
4	95	91.73	1,465.5	
5	581	7.51	19.6	excluded peak
6	845	11.37	20.4	
7	911	8.90	14.8	
8	992	17.09	26.1	excluded peak
9	1,176	12.38	15.9	
10	1,277	10.47	12.4	
11	1,404	10.41	11.2	
12	1,504	11.75	11.8	
13	1,639	15.70	14.5	
14	1,925	11.89	9.4	
15	2,285	13.12	8.7	
16	2,786	9.92	5.4	
17	4,235	31.62	11.3	
18	5,081	17.05	5.1	
19	5,970	9.81	2.5	
20	7,141	20.36	4.3	
21	10,380	75.00	10.9	Upper Marker
22	12,239	0.00	0.0	

Region table for sample 4 : 4-GruetzcdNA

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	51.0	13	763	23.4	73.81	167.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : 5-GcaribcDNA**

Number of peaks found: 36 Corr. Area 1: 945.5
 Noise: 0.8

Peak table for sample 5 : 5-GcaribcDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	33.11	1,054.6	
3	54	144.33	4,018.6	
4	95	102.34	1,624.7	
5	127	18.91	225.8	
6	148	11.12	113.7	
7	181	25.29	212.0	
8	210	12.60	90.8	
9	217	9.27	64.8	
10	240	27.86	175.8	
11	256	14.28	84.5	
12	266	10.16	57.8	
13	278	12.70	69.2	
14	290	17.45	91.1	
15	302	11.99	60.1	
16	323	14.11	66.2	
17	347	20.46	89.3	
18	390	13.05	50.7	
19	424	23.60	84.3	
20	444	24.44	83.3	
21	492	24.48	75.4	
22	521	26.03	75.7	
23	549	40.74	112.4	
24	616	81.76	201.1	
25	690	92.24	202.7	
26	1,302	600.73	699.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : 5-GcaribcDNA**

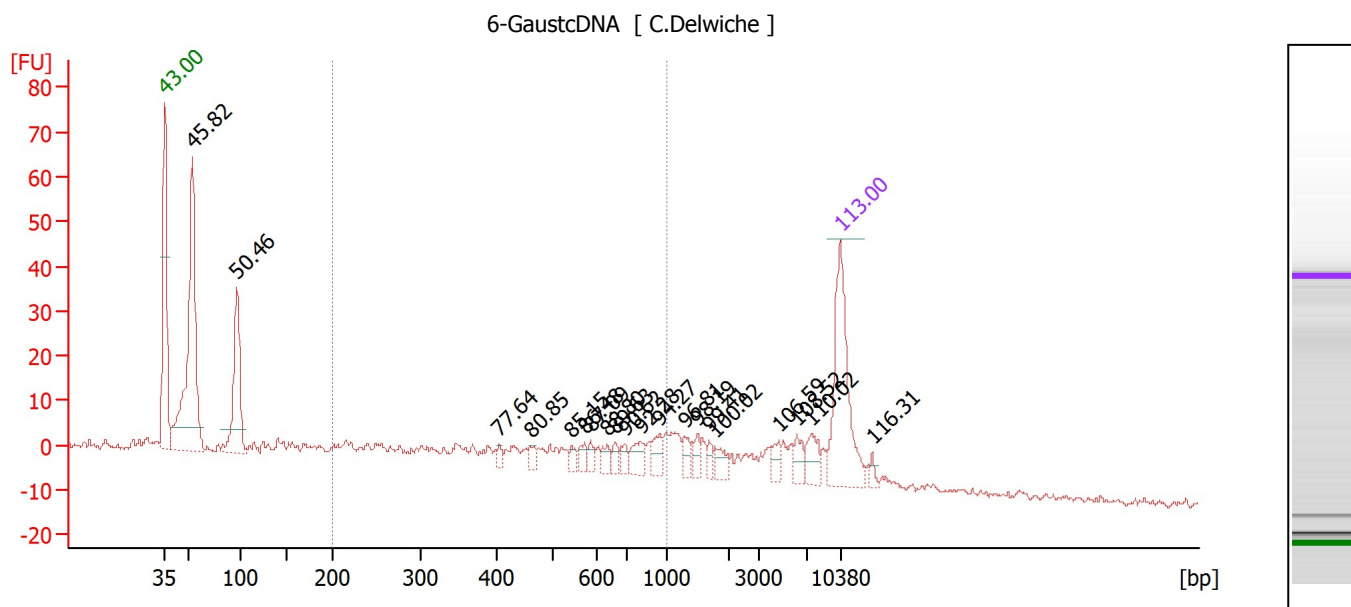
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,474	177.72	182.7	
28	1,664	633.22	576.7	
29	3,973	53.60	20.4	
30	6,357	15.40	3.7	
31	6,963	12.13	2.6	
32	7,987	23.79	4.5	
33	10,380	75.00	10.9	Upper Marker
34	12,555	0.00	0.0	
35	13,317	0.00	0.0	
36	14,839	0.00	0.0	
37	15,710	0.00	0.0	
38	18,592	0.00	0.0	

Region table for sample 5 : 5-GcaribcDNA

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	945.5	36	648	33.6	1,066.92	3,147.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
 Modified: 5/23/2017 4:19:44 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : 6-GaustcDNA**

Number of peaks found: 20 Corr. Area 1: 199.3
 Noise: 0.6

Peak table for sample 6 : 6-GaustcDNA

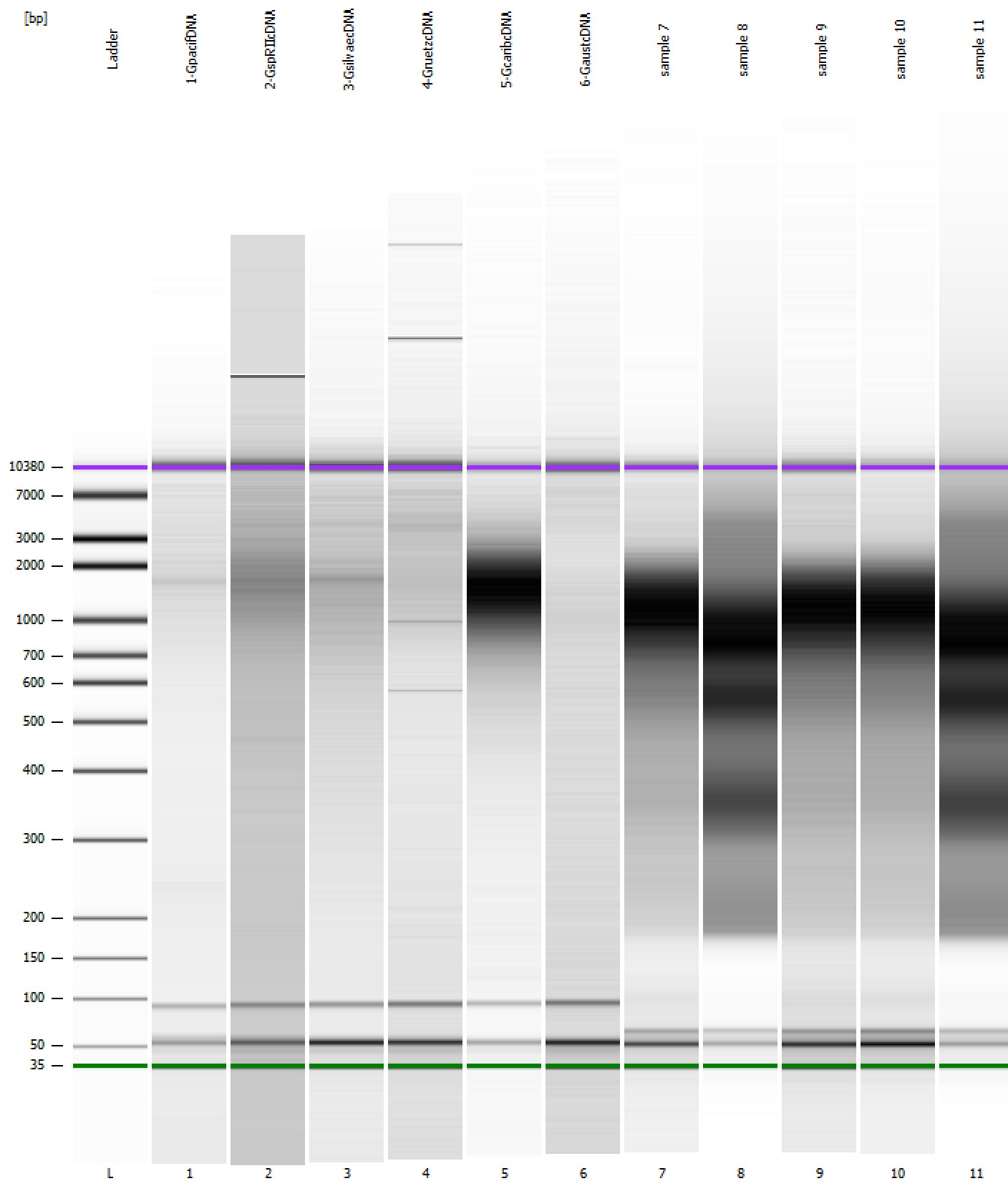
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	264.66	7,384.7	
3	96	106.57	1,682.9	
4	403	5.49	20.7	
5	459	6.96	23.0	
6	543	6.87	19.2	
7	572	8.08	21.4	
8	585	6.37	16.5	
9	632	8.50	20.4	
10	658	7.38	17.0	
11	689	7.40	16.3	
12	796	14.28	27.2	
13	941	12.61	20.3	
14	1,273	8.88	10.6	
15	1,491	8.72	8.9	
16	1,684	5.59	5.0	
17	1,780	9.93	8.5	
18	4,591	7.53	2.5	
19	6,131	10.10	2.5	
20	7,399	15.20	3.1	
21	10,380	75.00	10.9	Upper Marker
22	13,692	0.00	0.0	

Region table for sample 6 : 6-GaustcDNA

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	199.3	34	519	41.7	278.90	1,067.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-05-23_15-13-28.xad

Created: 5/23/2017 3:13:27 PM
Modified: 5/23/2017 4:19:44 PM

Curves

Standard Curve

