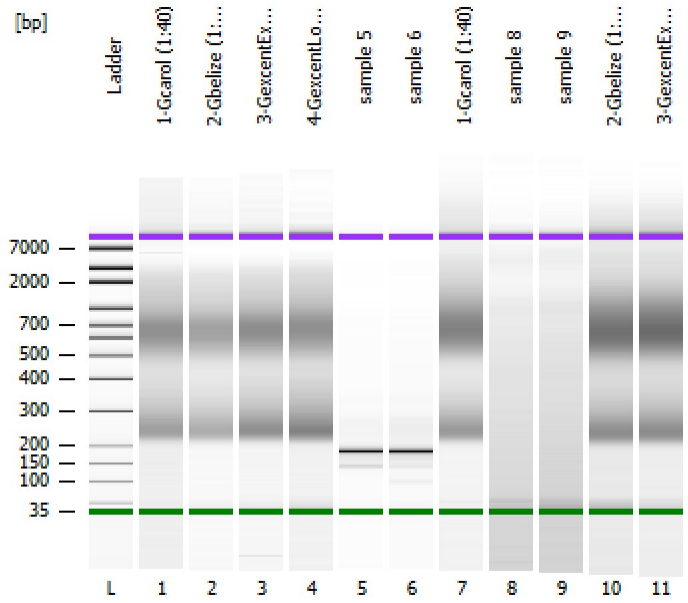
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

## Electrophoresis File Run Summary




Instrument Information:

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

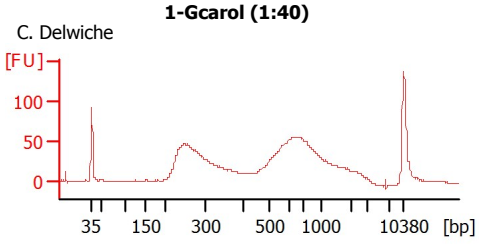
Assay Information:

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

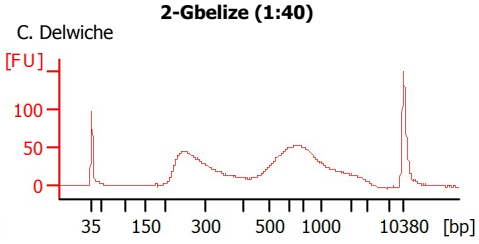
Chip Information:

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

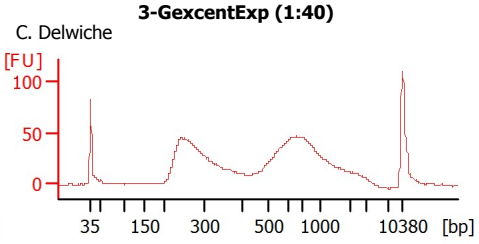
**1-Gcarol (1:40)**



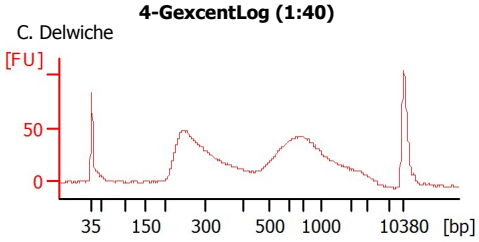

**2-Gbelize (1:40)**



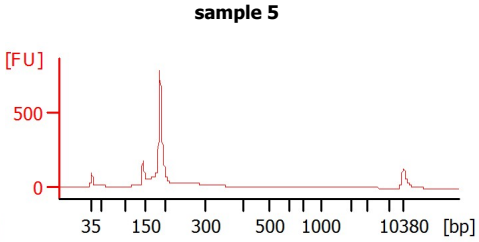

**3-GexcentExp (1:40)**



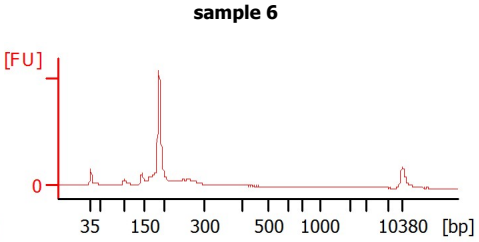

**4-GexcentLog (1:40)**



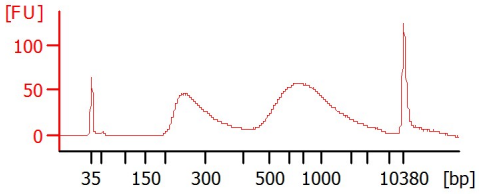

**sample 5**



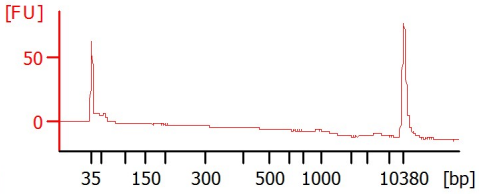

**sample 6**



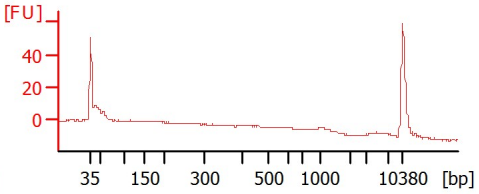

**1-Gcarol (1:40)**



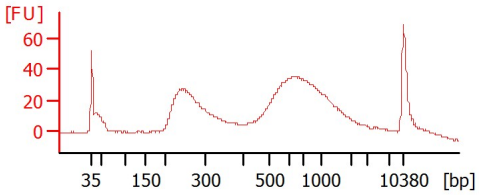

**sample 8**



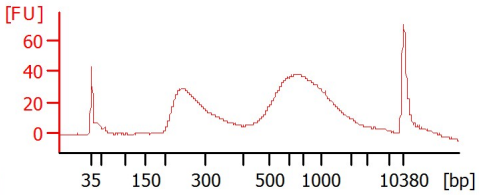

**sample 9**




**2-Gbelize (1:40)**




**3-GexcentExp (1:40)**



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Rest. Digest | Statu s | Observation | Result Label | Result Color |
|---|---|---|---|---|---|---|
| 1-Gcarol (1:40) | C. Delwiche | ☐ | ✔ | | | |
| 2-Gbelize (1:40) | C. Delwiche | ☐ | ✔ | | | |
| 3-GexcentExp (1:40) | C. Delwiche | ☐ | ✔ | | | |
| 4-GexcentLog (1:40) | C. Delwiche | ☐ | ✔ | | | |
| sample 5 | | ☐ | ✔ | | | |
| sample 6 | | ☐ | ✔ | | | |
| 1-Gcarol (1:40) | | ☐ | ✔ | | | |
| sample 8 | | ☐ | ✔ | | | |
| sample 9 | | ☐ | ✔ | | | |
| 2-Gbelize (1:40) | | ☐ | ✔ | | | |
| 3-GexcentExp (1:40) | | ☐ | ✔ | | | |
| Ladder | | ☐ | ✔ | | | |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 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

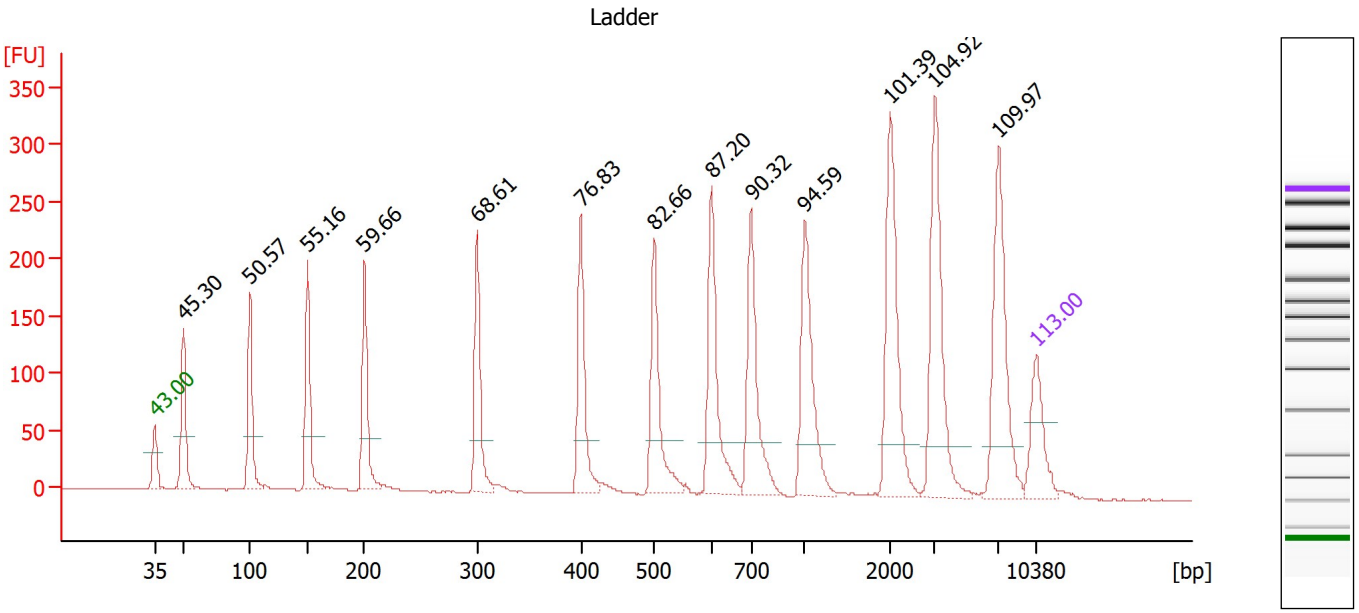
### Ladder

| 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_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

## Electropherogram Summary




## Overall Results for Ladder

Noise: 0.5

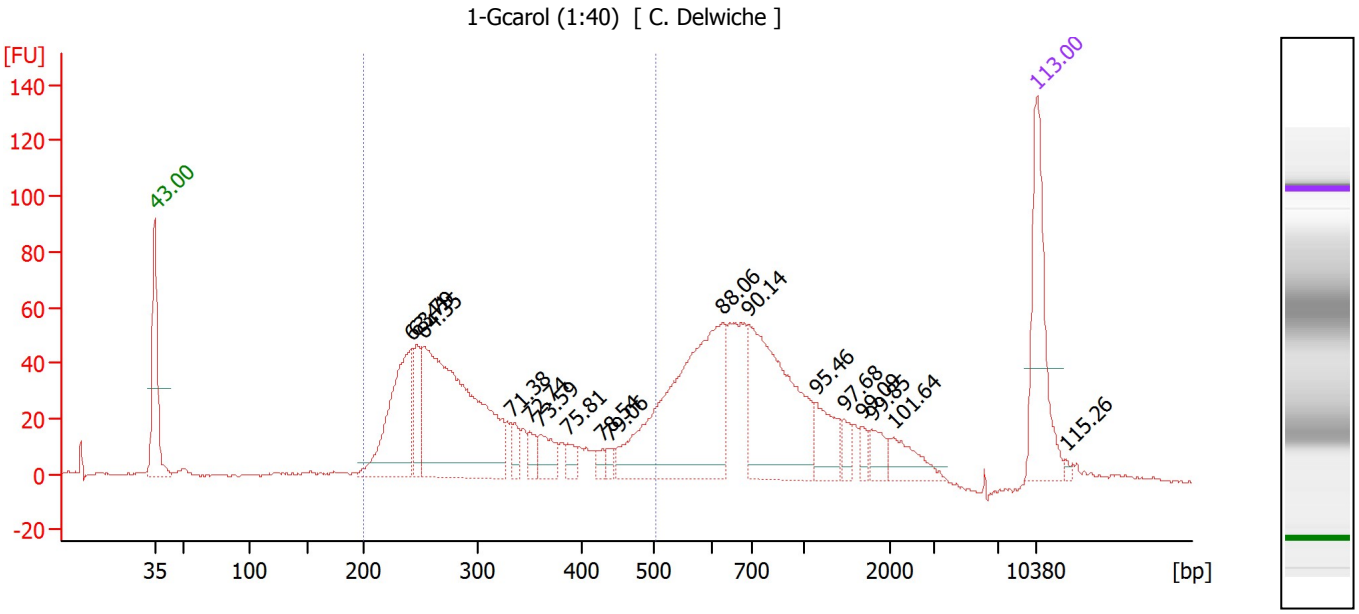
## Peak table for Ladder

| 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_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 1 : 1-Gcarol (1:40)**

| | | | |
|---|---|---|---|
| Number of peaks found: | 17 | Corr. Area 1: | 736.3 |
| Noise: | 0.5 | | |

**Peak table for sample 1 : 1-Gcarol (1:40)**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 242 | 130.90 | 820.0 | |
| 3 | 246 | 38.98 | 240.0 | |
| 4 | 252 | 299.24 | 1,796.2 | |
| 5 | 334 | 13.74 | 62.4 | |
| 6 | 350 | 12.66 | 54.7 | |
| 7 | 361 | 24.25 | 101.9 | |
| 8 | 388 | 9.81 | 38.3 | |
| 9 | 429 | 7.60 | 26.8 | |
| 10 | 438 | 6.02 | 20.8 | |
| 11 | 628 | 223.01 | 538.4 | |
| 12 | 694 | 163.48 | 356.9 | |
| 13 | 1,128 | 32.15 | 43.2 | |
| 14 | 1,454 | 9.93 | 10.3 | |
| 15 | 1,663 | 7.02 | 6.4 | |
| 16 | 1,774 | 13.20 | 11.3 | |
| 17 | 2,072 | 22.30 | 16.3 | |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 19 | 12,904 | 0.00 | 0.0 | |

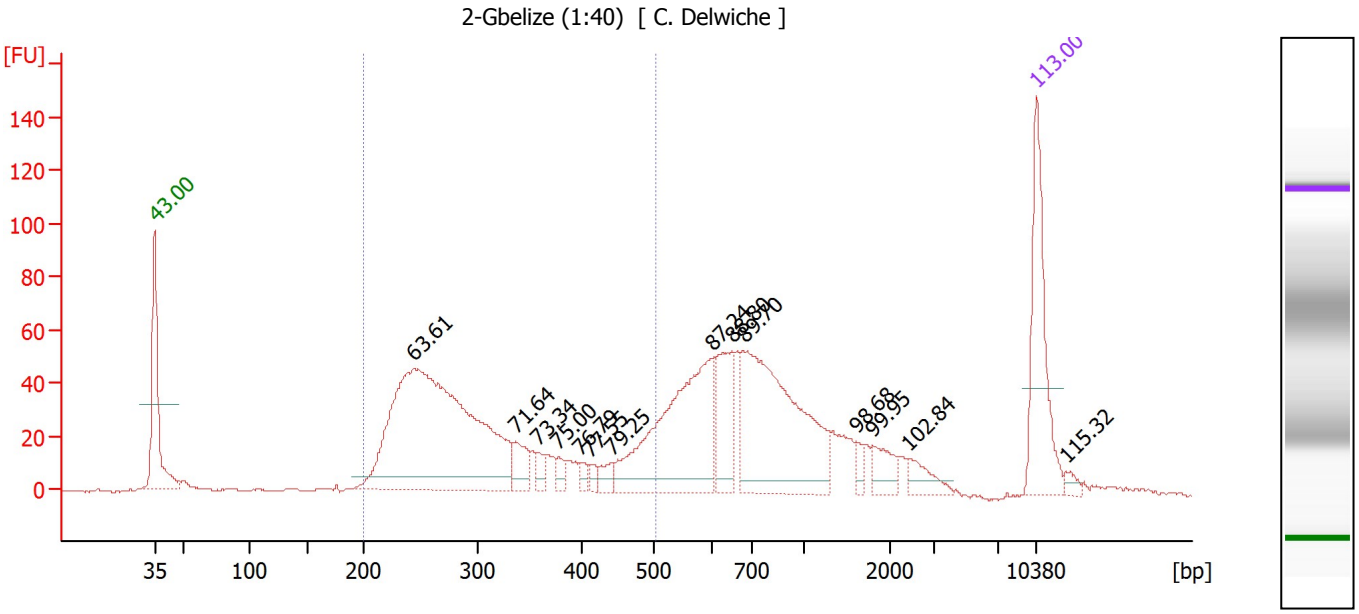
**Region table for sample 1 : 1-Gcarol (1:40)**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/µl] | Molarity [pmol/l] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 502 | 736.3 | 47 | 311 | 25.0 | 617.52 | 3,235.4 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 2 : 2-Gbelize (1:40)**

| | | | |
|---|---|---|---|
| Number of peaks found: | 14 | Corr. Area 1: | 735.3 |
| Noise: | 0.4 | | |

**Peak table for sample 2 : 2-Gbelize (1:40)**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | ◀ | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 244 | 448.69 | 2,785.3 | |
| 3 | | 337 | 23.23 | 104.5 | |
| 4 | | 358 | 9.19 | 38.9 | |
| 5 | | 378 | 7.59 | 30.5 | |
| 6 | | 400 | 6.67 | 25.3 | |
| 7 | | 412 | 6.21 | 22.8 | |
| 8 | | 442 | 10.75 | 36.9 | |
| 9 | | 601 | 170.29 | 429.2 | |
| 10 | | 651 | 58.37 | 135.8 | |
| 11 | | 680 | 196.77 | 438.5 | |
| 12 | | 1,601 | 6.79 | 6.4 | |
| 13 | | 1,789 | 18.32 | 15.5 | |
| 14 | | 2,411 | 14.53 | 9.1 | |
| 15 | ▶ | 10,380 | 75.00 | 10.9 | Upper Marker |
| 16 | | 12,964 | 0.00 | 0.0 | |

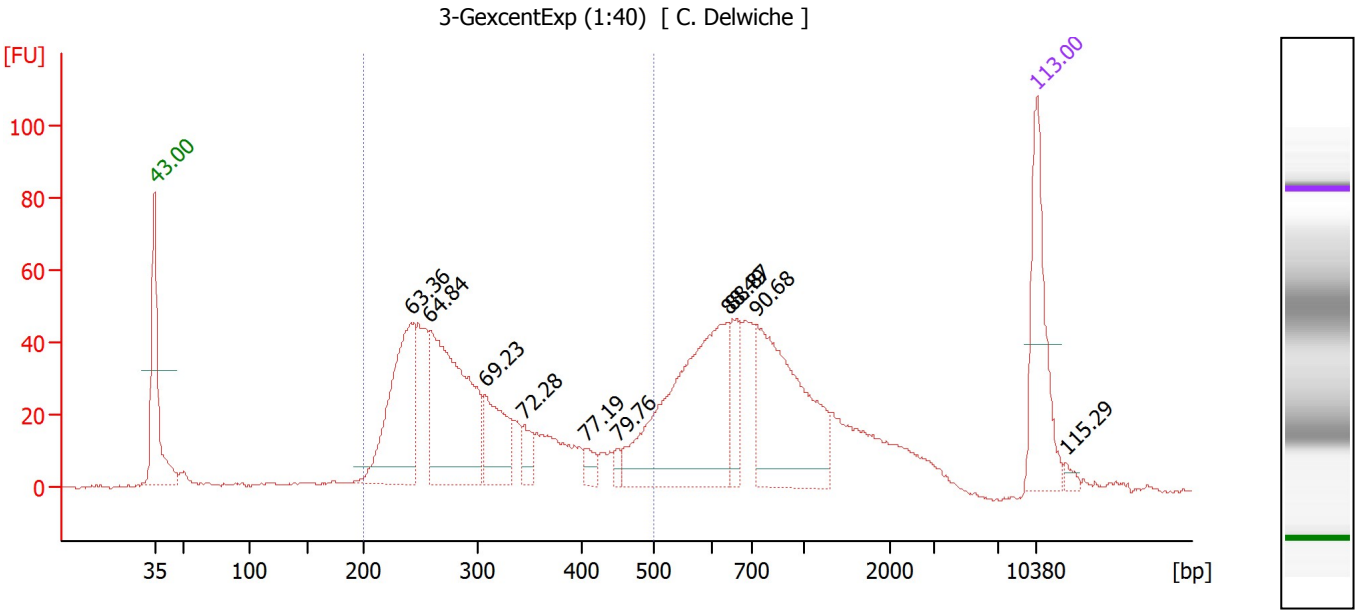
**Region table for sample 2 : 2-Gbelize (1:40)**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/µl] | Molarity [pmol/l] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 503 | 735.3 | 47 | 312 | 25.6 | 581.28 | 3,049.7 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 3 : 3-GexcentExp (1:40)**

| | | | |
|---|---|---|---|
| Number of peaks found: | 10 | Corr. Area 1: | 715.9 |
| Noise: | 0.3 | | |

**Peak table for sample 3 : 3-GexcentExp (1:40)**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | ◀ | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 241 | 164.23 | 1,031.1 | |
| 3 | | 258 | 217.01 | 1,275.3 | |
| 4 | | 307 | 67.95 | 334.8 | |
| 5 | | 345 | 16.60 | 73.0 | |
| 6 | | 406 | 11.60 | 43.3 | |
| 7 | | 450 | 6.58 | 22.1 | |
| 8 | | 641 | 218.61 | 516.5 | |
| 9 | | 653 | 35.52 | 82.4 | |
| 10 | | 725 | 170.99 | 357.2 | |
| 11 | ▶ | 10,380 | 75.00 | 10.9 | Upper Marker |
| 12 | | 12,934 | 0.00 | 0.0 | |

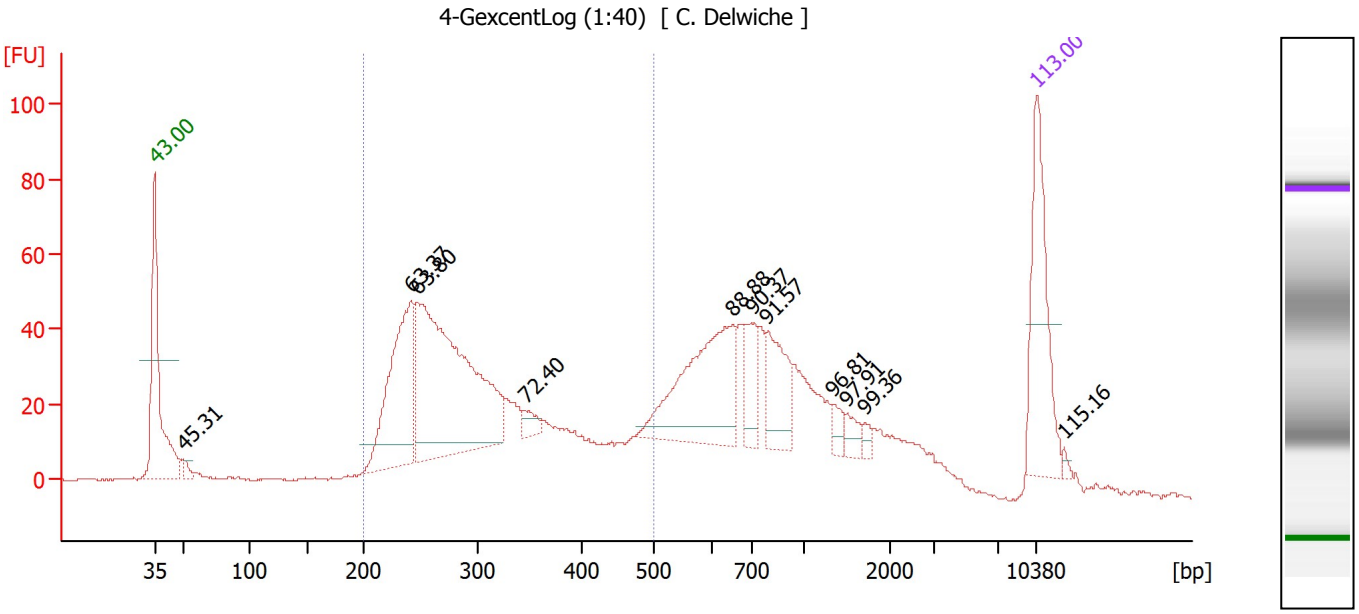
**Region table for sample 3 : 3-GexcentExp (1:40)**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/µl] | Molarity [pmol/l] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 498 | 715.9 | 49 | 309 | 24.4 | 712.37 | 3,749.4 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 4 : 4-GexcentLog (1:40)**

| | | | |
|---|---|---|---|
| Number of peaks found: | 11 | Corr. Area 1: | 759.3 |
| Noise: | 0.3 | | |

**Peak table for sample 4 : 4-GexcentLog (1:40)**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | ◀ | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 50 | 7.34 | 222.0 | |
| 3 | | 241 | 148.87 | 934.3 | |
| 4 | | 246 | 298.48 | 1,836.4 | |
| 5 | | 346 | 10.25 | 44.9 | |
| 6 | | 654 | 127.88 | 296.4 | |
| 7 | | 703 | 32.00 | 68.9 | |
| 8 | | 788 | 49.02 | 94.3 | |
| 9 | | 1,326 | 9.41 | 10.8 | |
| 10 | | 1,489 | 9.09 | 9.2 | |
| 11 | | 1,701 | 4.78 | 4.3 | |
| 12 | ▶ | 10,380 | 75.00 | 10.9 | Upper Marker |
| 13 | | 12,792 | 0.00 | 0.0 | |

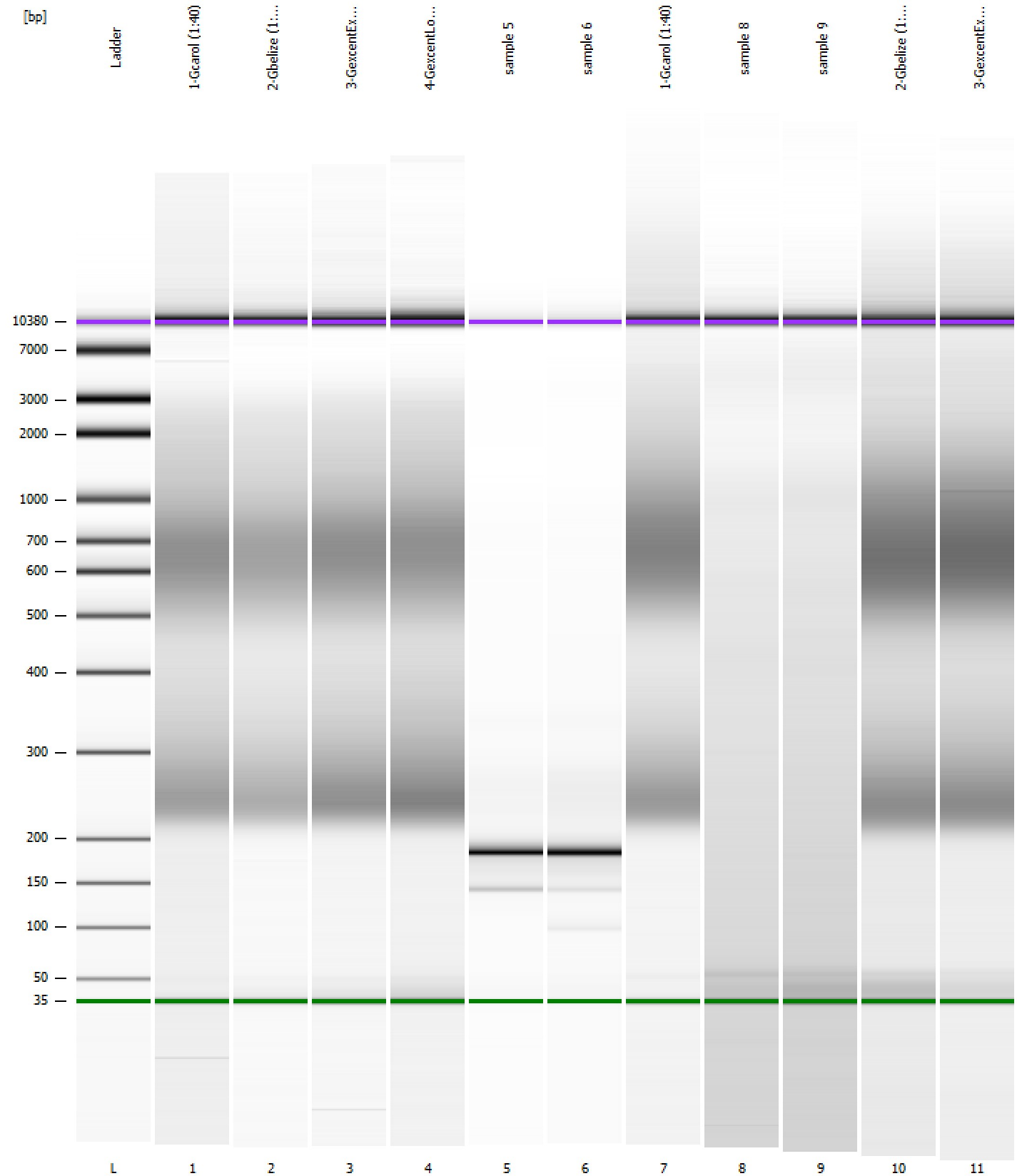
**Region table for sample 4 : 4-GexcentLog (1:40)**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/µl] | Molarity [pmol/l] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 501 | 759.3 | 52 | 308 | 24.1 | 741.39 | 3,902.2 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE24802100_2017-03-13_14-44-45.xad

Created: 3/13/2017 2:44:45 PM
Modified: 4/10/2017 2:15:20 PM

**Curves**

**Standard Curve**