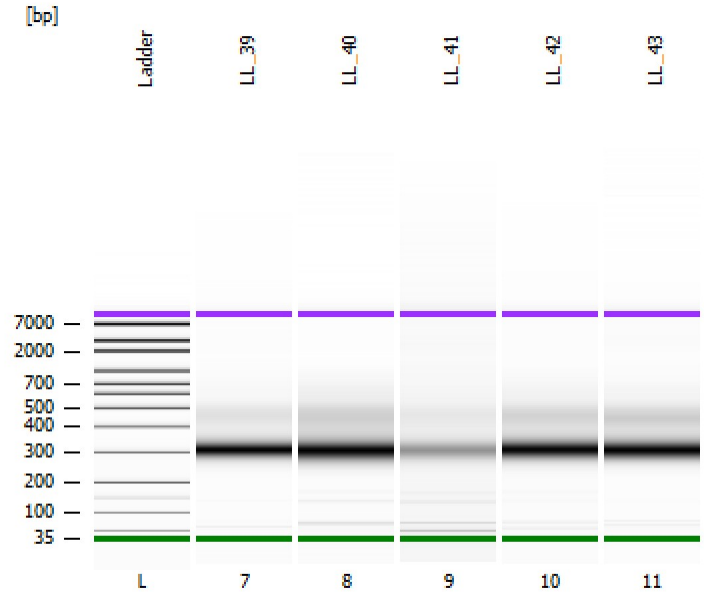
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

## Electrophoresis File Run Summary




Instrument Information:

| | | | |
|---|---|---|---|
| Instrument Name: | DE34903152 | Firmware: | C.01.069 |
| Serial#: | DE34903152 | Type: | G2938C |

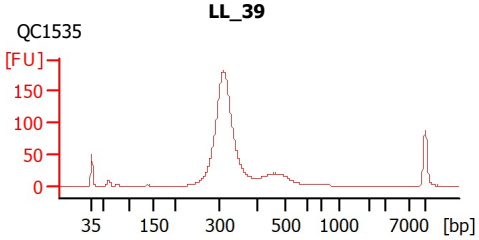
Assay Information:

| | |
|---|---|
| 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 |

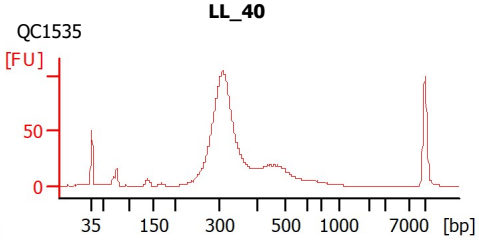
Chip Information:

| | |
|---|---|
| Chip Lot #: | |
| Reagent Kit Lot #: | |
| Chip Comments: | |

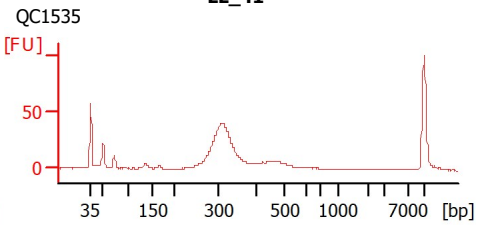
**LL_39**



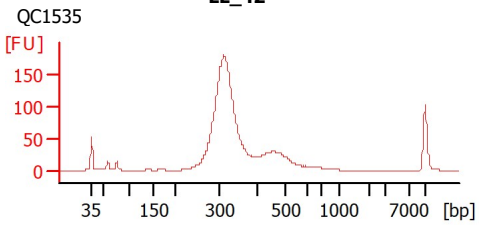

**LL_40**



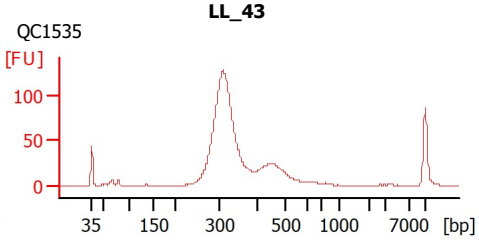

**LL_41**




**LL_42**




**LL_43**



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

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

| Sample Name | Sample Comment | Rest. Digest | Statu Observations | Result Label | Result Color |
|---|---|---|---|---|---|
| LL_39 | QC1535 | ☐ | ✔ | | |
| LL_40 | QC1535 | ☐ | ✔ | | |
| LL_41 | QC1535 | ☐ | ✔ | | |
| LL_42 | QC1535 | ☐ | ✔ | | |
| LL_43 | QC1535 | ☐ | ✔ | | |
| Ladder | | ☐ | ✔ | | |

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 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

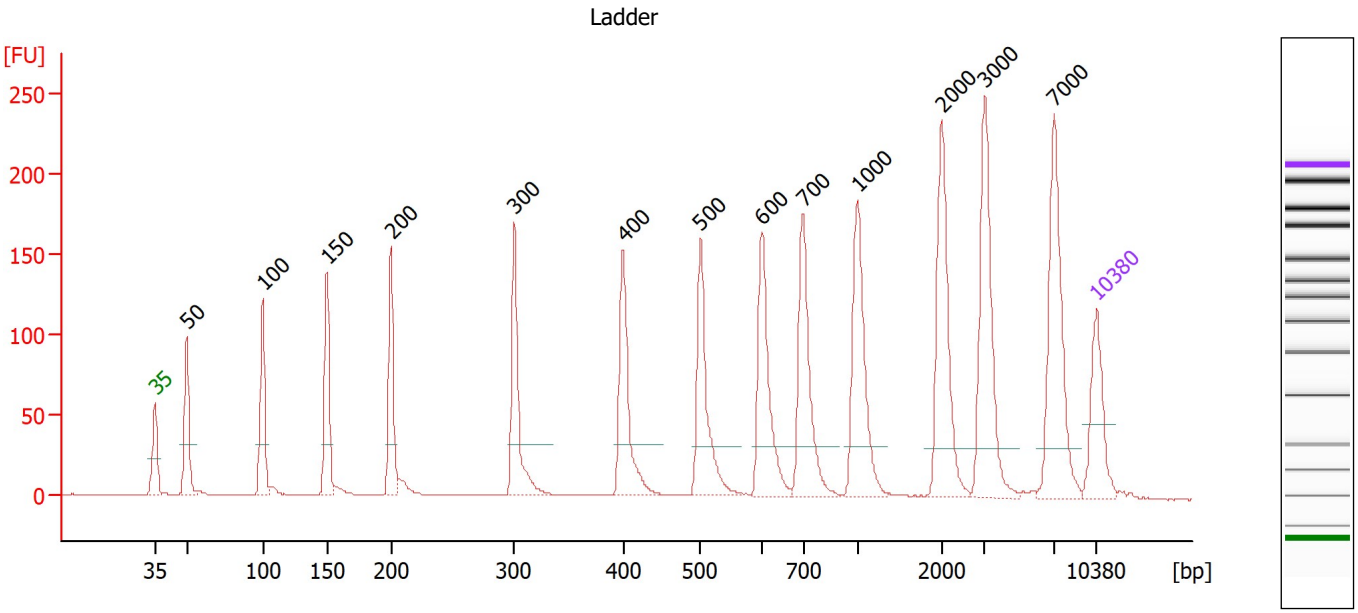
### Ladder

| 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:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

## Electropherogram Summary




## Overall Results for Ladder

Noise: 0.1

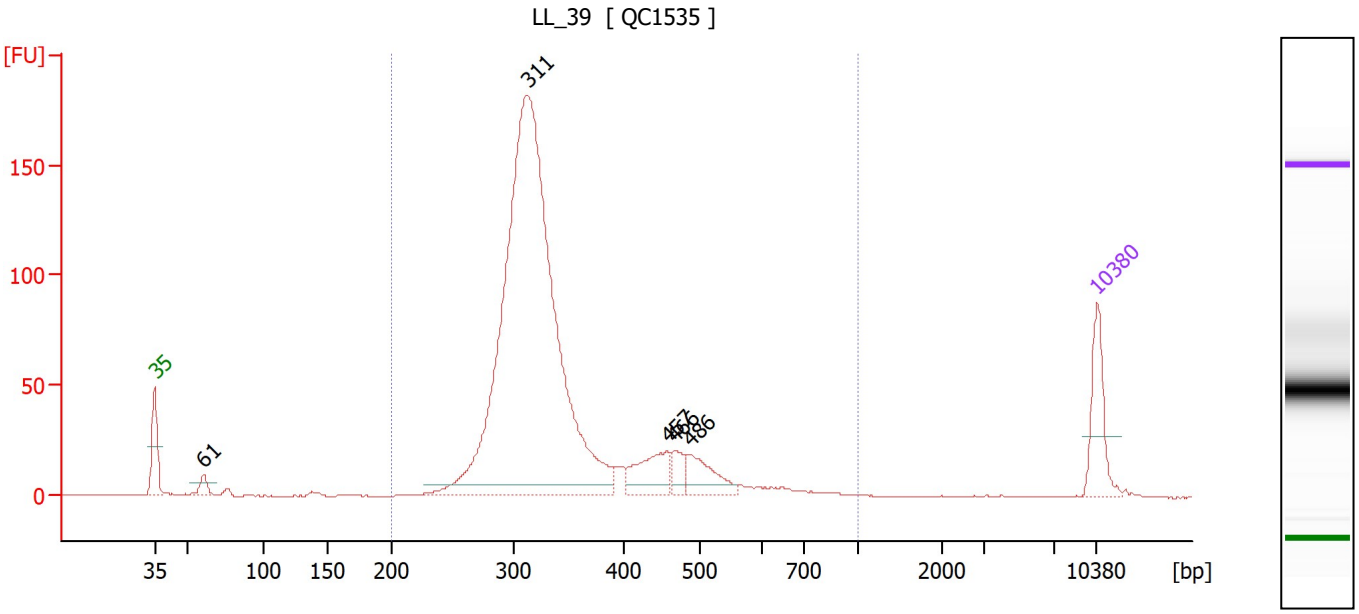
## Peak table for Ladder

| 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:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 7 : LL_39**

| | | | |
|---|---|---|---|
| Number of peaks found: | 5 | Corr. Area 1: | 1,293.5 |
| Noise: | 0.2 | | |

**Peak table for sample 7 : LL_39**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 61 | 21.57 | 533.9 | |
| 3 | 311 | 1,626.68 | 7,917.1 | |
| 4 | 457 | 86.99 | 288.4 | |
| 5 | 466 | 31.19 | 101.3 | |
| 6 | 486 | 67.44 | 210.1 | |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker |

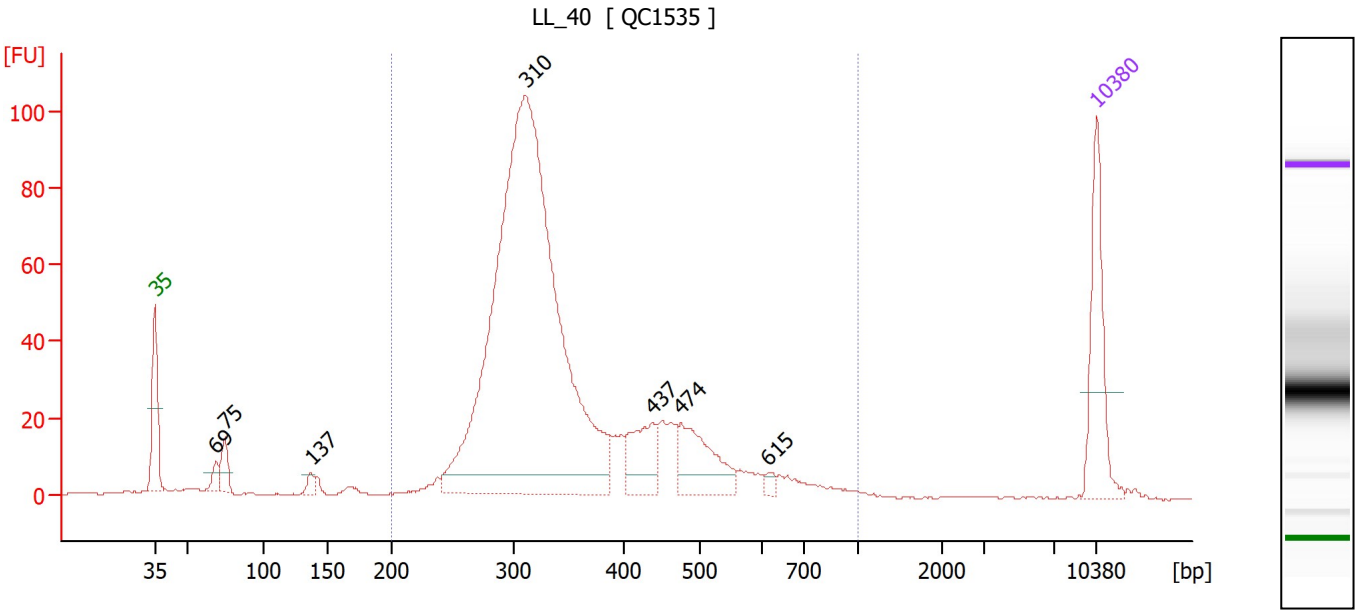
**Region table for sample 7 : LL_39**

| 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 | 1,293.5 | 96 | 347 | 24.4 | 1,899.77 | 8,746.4 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 8 : LL_40**

| | | | |
|---|---|---|---|
| Number of peaks found: | 7 | Corr. Area 1: | 989.4 |
| Noise: | 0.2 | | |

**Peak table for sample 8 : LL_40**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 69 | 15.31 | 333.9 | |
| 3 | 75 | 26.36 | 533.6 | |
| 4 | 137 | 9.57 | 105.6 | |
| 5 | 310 | 1,030.72 | 5,038.8 | |
| 6 | 437 | 58.39 | 202.3 | |
| 7 | 474 | 77.53 | 247.7 | |
| 8 | 615 | 6.18 | 15.2 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |

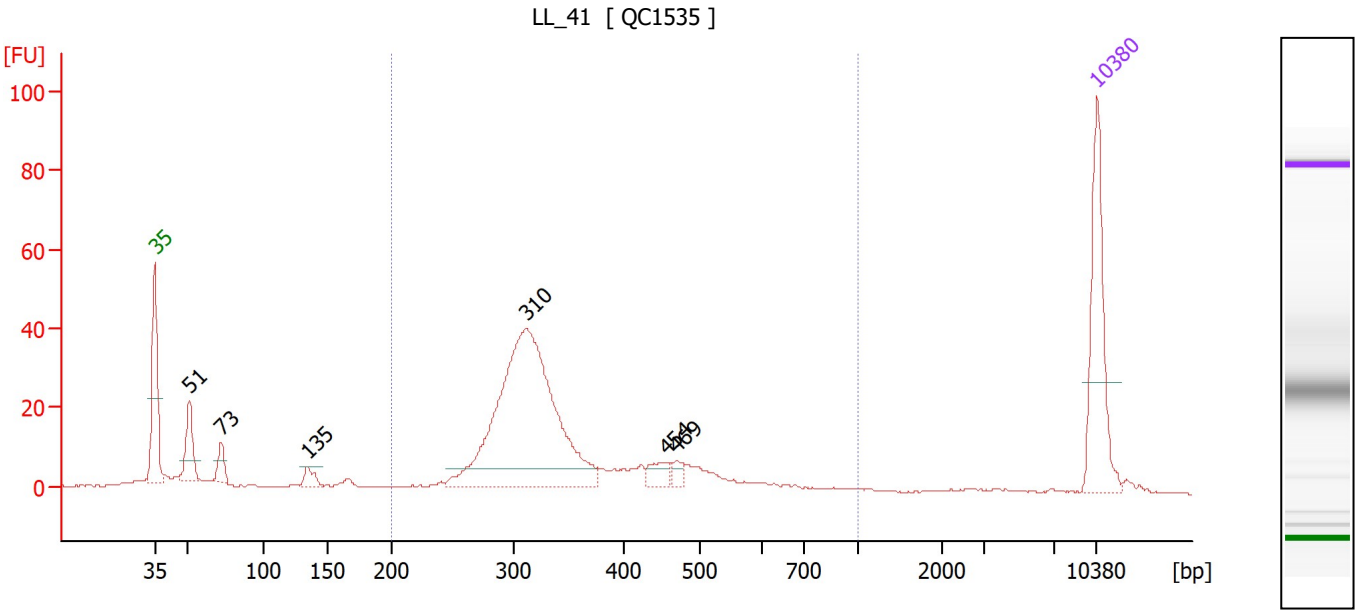
**Region table for sample 8 : LL_40**

| 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 | 989.4 | 95 | 357 | 27.5 | 1,298.07 | 5,922.2 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 9 : LL_41**

| | | | |
|---|---|---|---|
| Number of peaks found: | 6 | Corr. Area 1: | 370.6 |
| Noise: | 0.2 | | |

**Peak table for sample 9 : LL_41**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 51 | 42.95 | 1,264.9 | |
| 3 | 73 | 17.61 | 367.7 | |
| 4 | 135 | 12.69 | 142.9 | |
| 5 | 310 | 362.41 | 1,770.3 | |
| 6 | 454 | 15.08 | 50.3 | |
| 7 | 469 | 7.68 | 24.8 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |

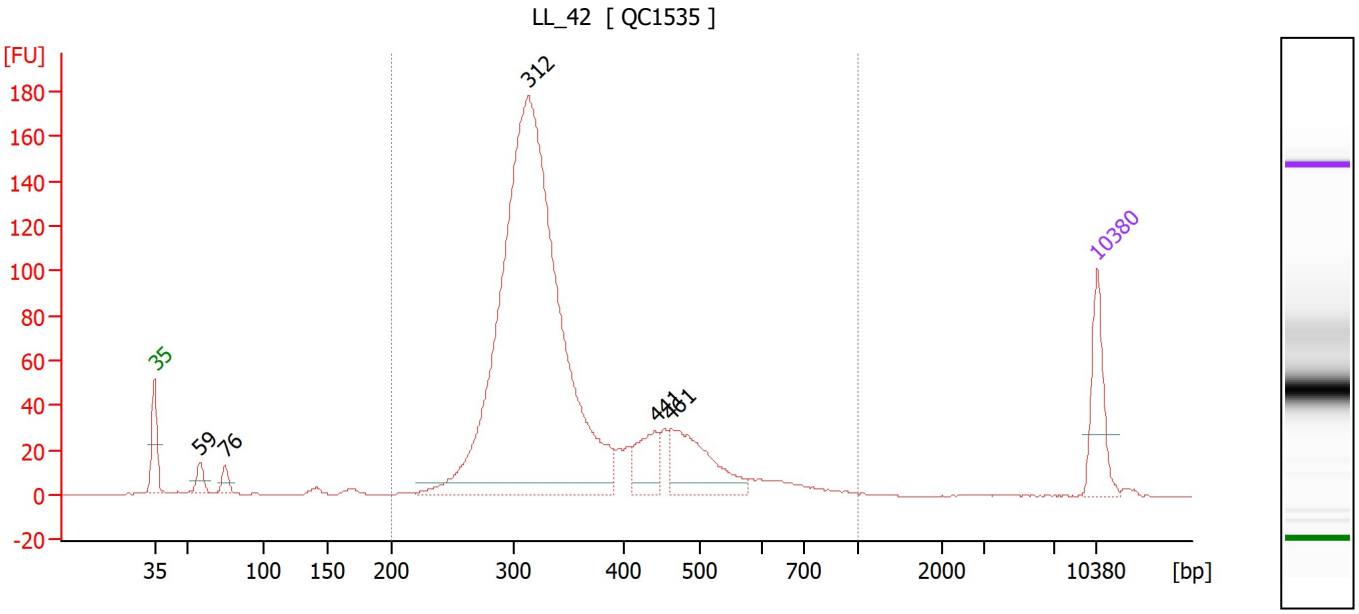
**Region table for sample 9 : LL_41**

| 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 | 370.6 | 77 | 359 | 28.9 | 480.81 | 2,190.1 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 10 : LL_42**

| | | | |
|---|---|---|---|
| Number of peaks found: | 5 | Corr. Area 1: | 1,518.5 |
| Noise: | 0.2 | | |

**Peak table for sample 10 : LL_42**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 59 | 27.56 | 711.7 | |
| 3 | | 76 | 23.45 | 470.1 | |
| 4 | | 312 | 1,602.56 | 7,775.7 | |
| 5 | | 441 | 74.42 | 255.6 | |
| 6 | | 461 | 146.30 | 480.3 | |
| 7 | | 10,380 | 75.00 | 10.9 | Upper Marker |

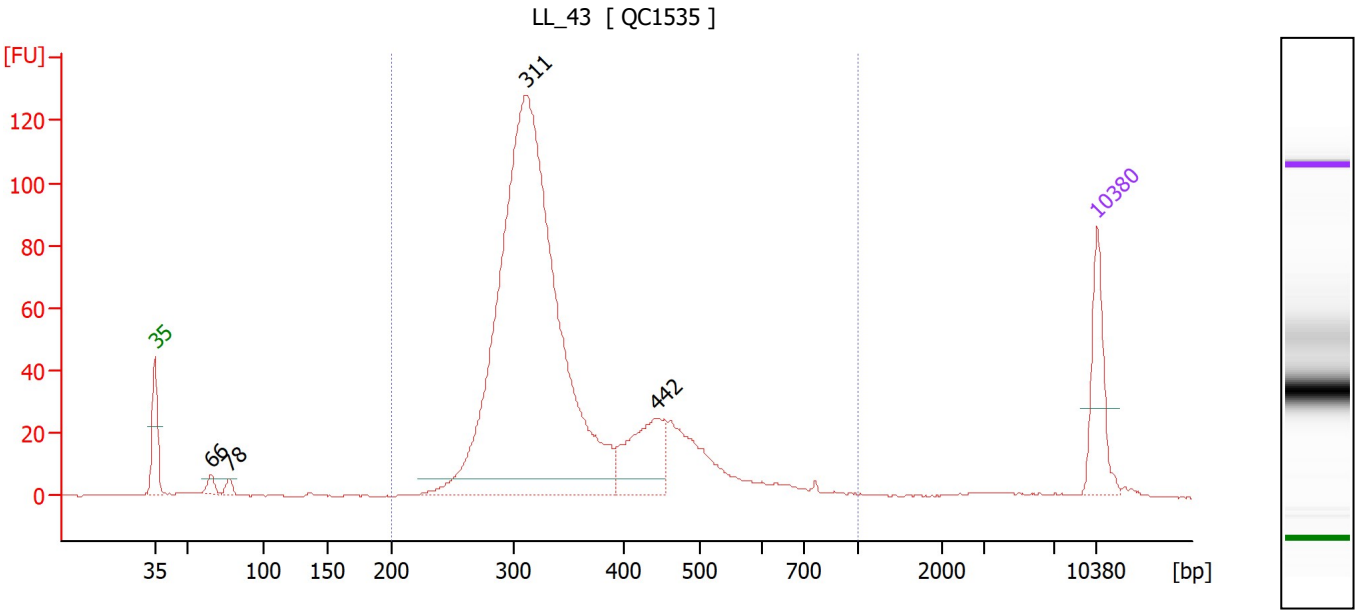
**Region table for sample 10 : LL_42**

| 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 | 1,518.5 | 94 | 356 | 26.4 | 1,964.80 | 8,914.1 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Electropherogram Summary Continued ...**




**Overall Results for sample 11 : LL_43**

| | | | |
|---|---|---|---|
| Number of peaks found: | 4 | Corr. Area 1: | 1,097.3 |
| Noise: | 0.2 | | |

**Peak table for sample 11 : LL_43**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 66 | 15.78 | 362.7 | |
| 3 | 78 | 11.73 | 227.9 | |
| 4 | 311 | 1,358.64 | 6,624.9 | |
| 5 | 442 | 127.33 | 436.6 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |

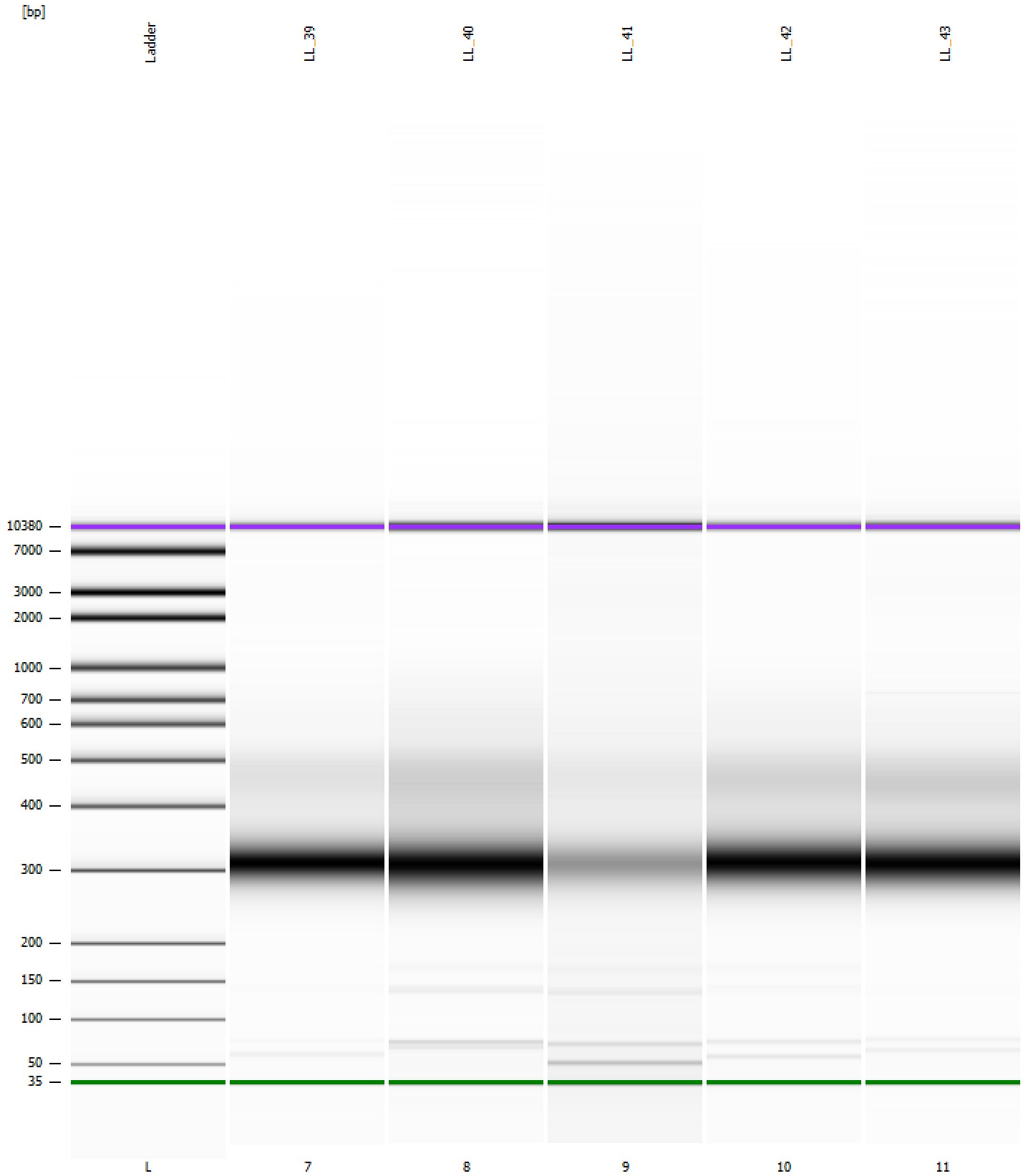
**Region table for sample 11 : LL_43**

| 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 | 1,097.3 | 96 | 354 | 25.3 | 1,666.56 | 7,578.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Gel Image**

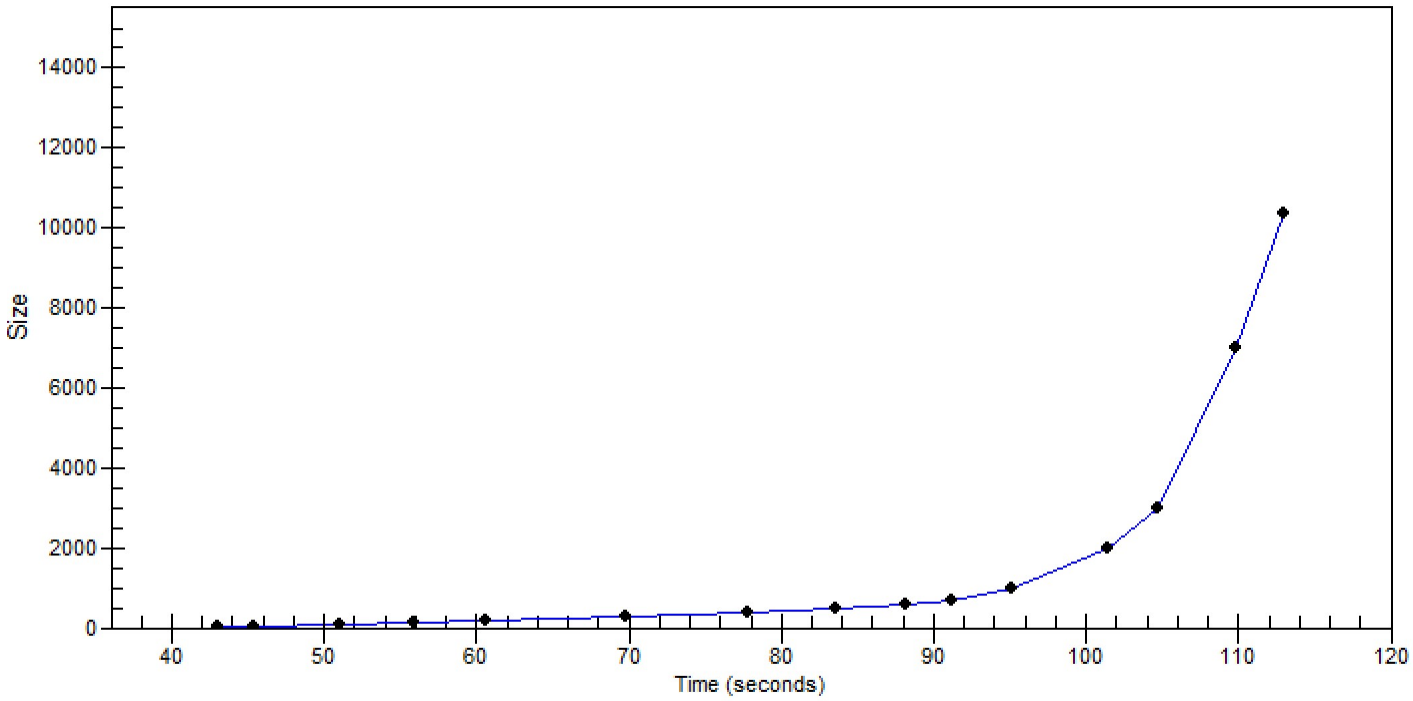


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nt\2100 bioanalyzer\2100 expert\data\2023-07-10\1535-55.xad

Created: 7/10/2023 2:56:24 PM
Modified: 7/17/2023 12:48:56 PM

## Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|---|---|---|---|---|---|---|---|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 7/10/2023 3:36:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-07-10\Bioanalyzer1_High Sensitivity DNA Assay_2023-07-10_007.xad) | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Product Number : G2938C | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Name : | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Serial# : DE34903152 | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Firmware : C.01.069 | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |
| Cartridge : Electrode | | Instrument | Run | | 7/10/2023 2:56:29 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNVVOB |