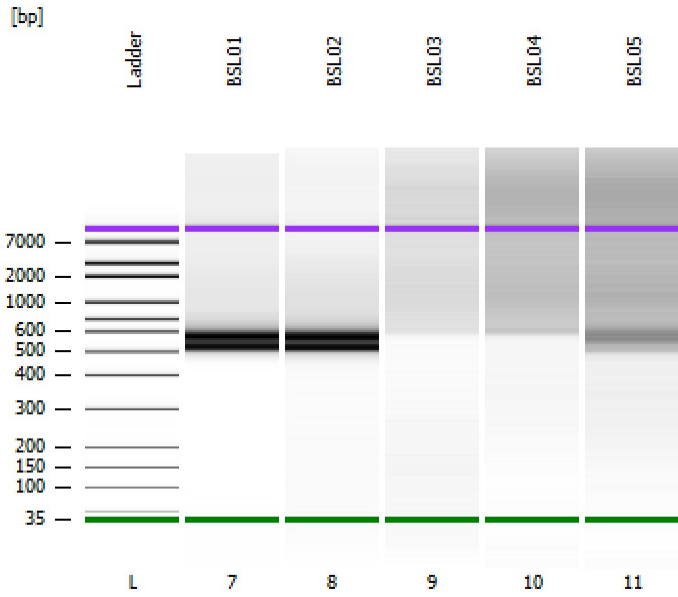


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
Modified: 8/14/2020 11:30:07 AM

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

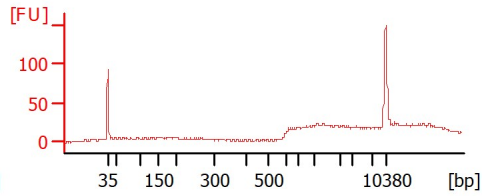
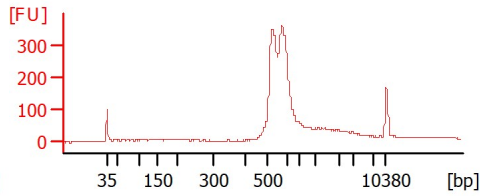
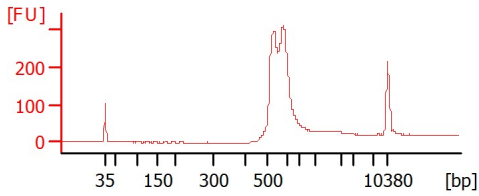
Chip Information:

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

BSL01

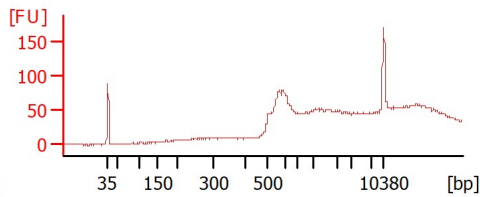
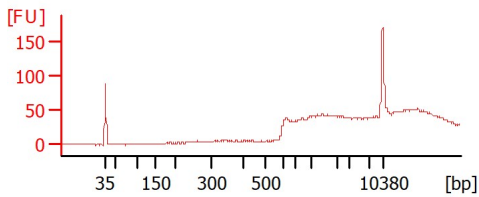
BSL02

BSL03



BSL04

BSL05



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| BSL01 | | <input type="checkbox"/> | | | | |
| BSL02 | | <input type="checkbox"/> | | | | |
| BSL03 | | <input type="checkbox"/> | | | | |
| BSL04 | | <input type="checkbox"/> | | | | |
| BSL05 | | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | | | | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 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

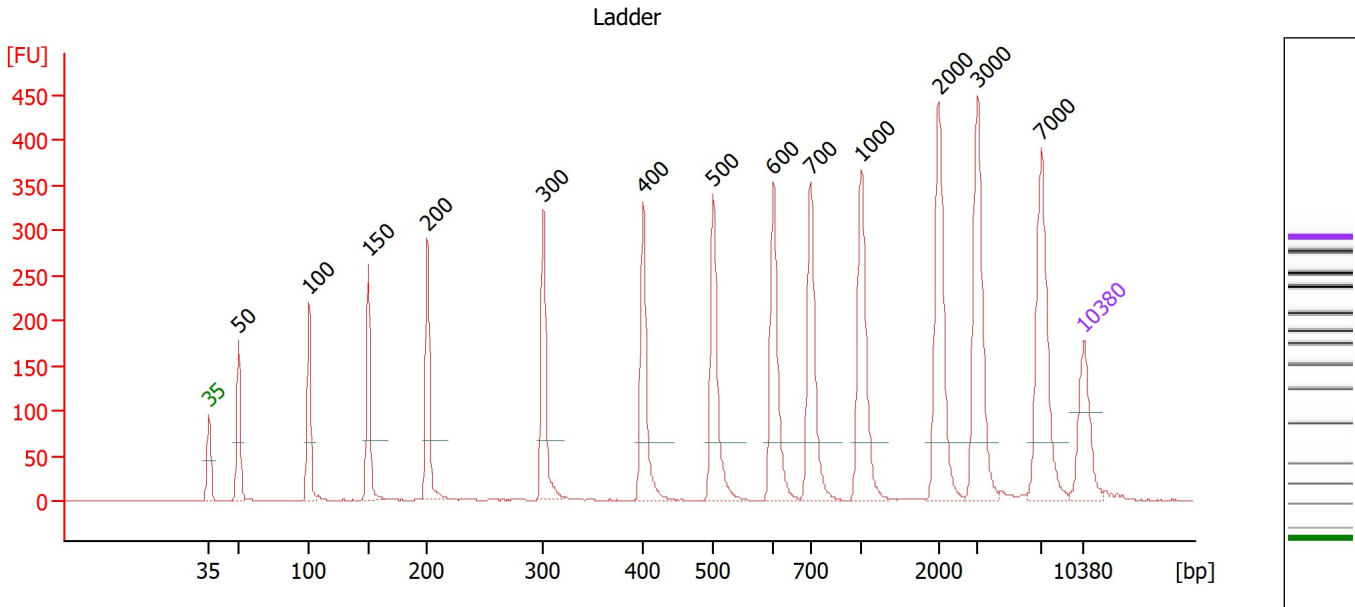
Ladder

| 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: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

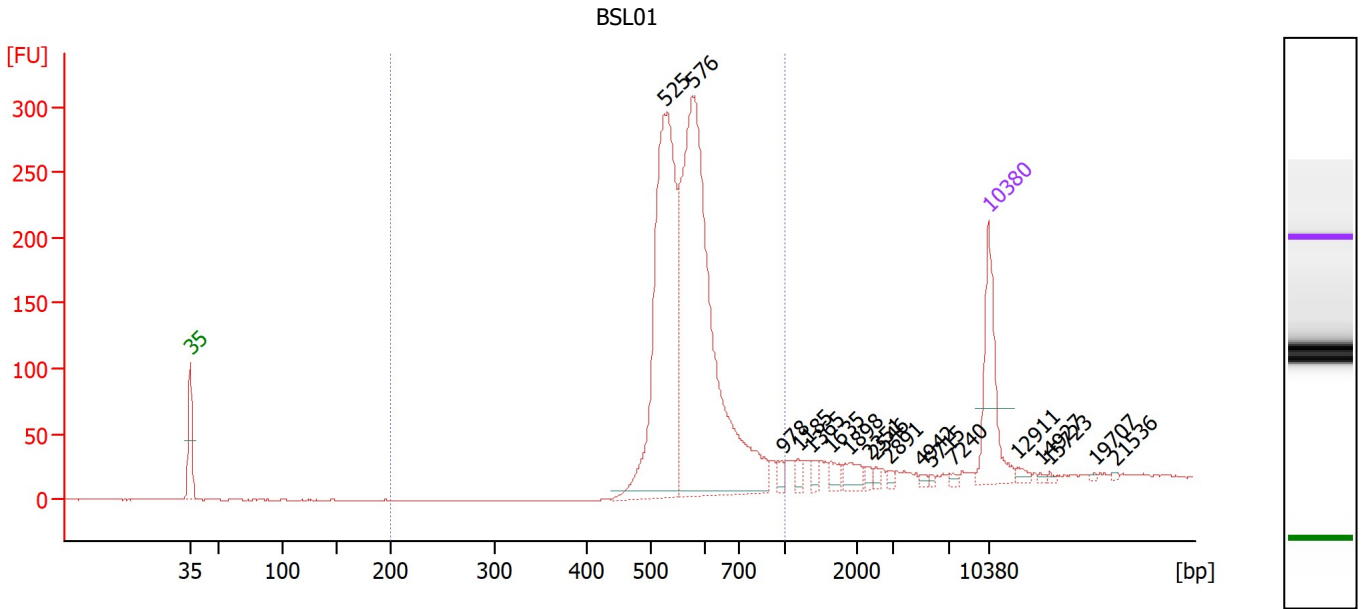
Peak table for Ladder

| 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: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BSL01

Number of peaks found: 18 Corr. Area 1: 1,861.2
 Noise: 0.3

Peak table for sample 7 : BSL01

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 525 | 413.31 | 1,193.5 | |
| 3 | 576 | 576.08 | 1,515.1 | |
| 4 | 978 | 8.85 | 13.7 | |
| 5 | 1,185 | 6.98 | 8.9 | |
| 6 | 1,365 | 6.94 | 7.7 | |
| 7 | 1,635 | 10.52 | 9.7 | |
| 8 | 1,898 | 14.38 | 11.5 | |
| 9 | 2,351 | 4.47 | 2.9 | |
| 10 | 2,546 | 3.88 | 2.3 | |
| 11 | 2,891 | 3.99 | 2.1 | |
| 12 | 4,942 | 2.88 | 0.9 | |
| 13 | 5,715 | 2.04 | 0.5 | |
| 14 | 7,240 | 2.94 | 0.6 | |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 16 | 12,911 | 0.00 | 0.0 | |
| 17 | 14,927 | 0.00 | 0.0 | |
| 18 | 15,723 | 0.00 | 0.0 | |
| 19 | 19,707 | 0.00 | 0.0 | |
| 20 | 21,536 | 0.00 | 0.0 | |

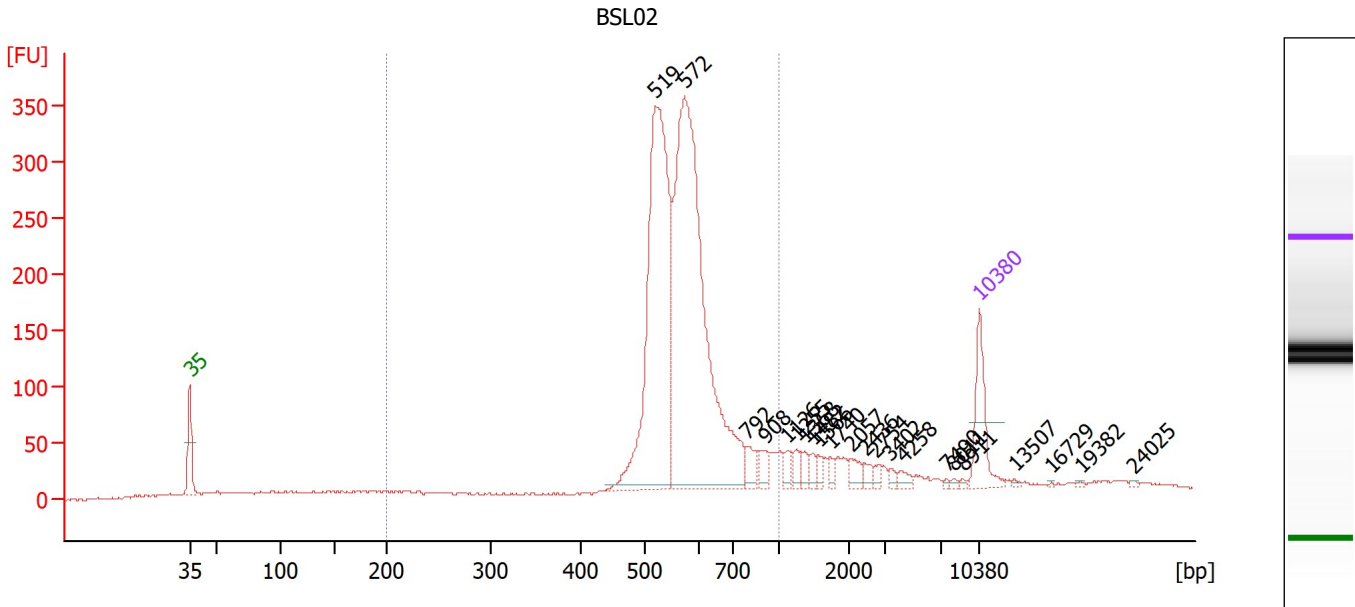
Region table for sample 7 : BSL01

| 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 | 1,861.2 | 89 | 580 | 13.6 | 936.61 | 2,485.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BSL02

Number of peaks found: 22 Corr. Area 1: 2,384.7
 Noise: 1.0

Peak table for sample 8 : BSL02

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 519 | 693.71 | 2,023.9 | |
| 3 | 572 | 920.47 | 2,437.2 | |
| 4 | 792 | 30.19 | 57.7 | |
| 5 | 908 | 24.15 | 40.3 | |
| 6 | 1,126 | 17.98 | 24.2 | |
| 7 | 1,255 | 17.60 | 21.3 | |
| 8 | 1,368 | 12.48 | 13.8 | |
| 9 | 1,482 | 12.67 | 12.9 | |
| 10 | 1,566 | 10.86 | 10.5 | |
| 11 | 1,740 | 10.02 | 8.7 | |
| 12 | 2,057 | 18.42 | 13.6 | |
| 13 | 2,436 | 10.23 | 6.4 | |
| 14 | 2,754 | 7.52 | 4.1 | |
| 15 | 3,402 | 6.82 | 3.0 | |
| 16 | 4,258 | 10.47 | 3.7 | |
| 17 | 7,490 | 2.30 | 0.5 | |
| 18 | 8,011 | 3.21 | 0.6 | |
| 19 | 8,911 | 2.28 | 0.4 | |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 21 | 13,507 | 0.00 | 0.0 | |
| 22 | 16,729 | 0.00 | 0.0 | |
| 23 | 19,382 | 0.00 | 0.0 | |
| 24 | 24,025 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...

... Region table for sample 8 :

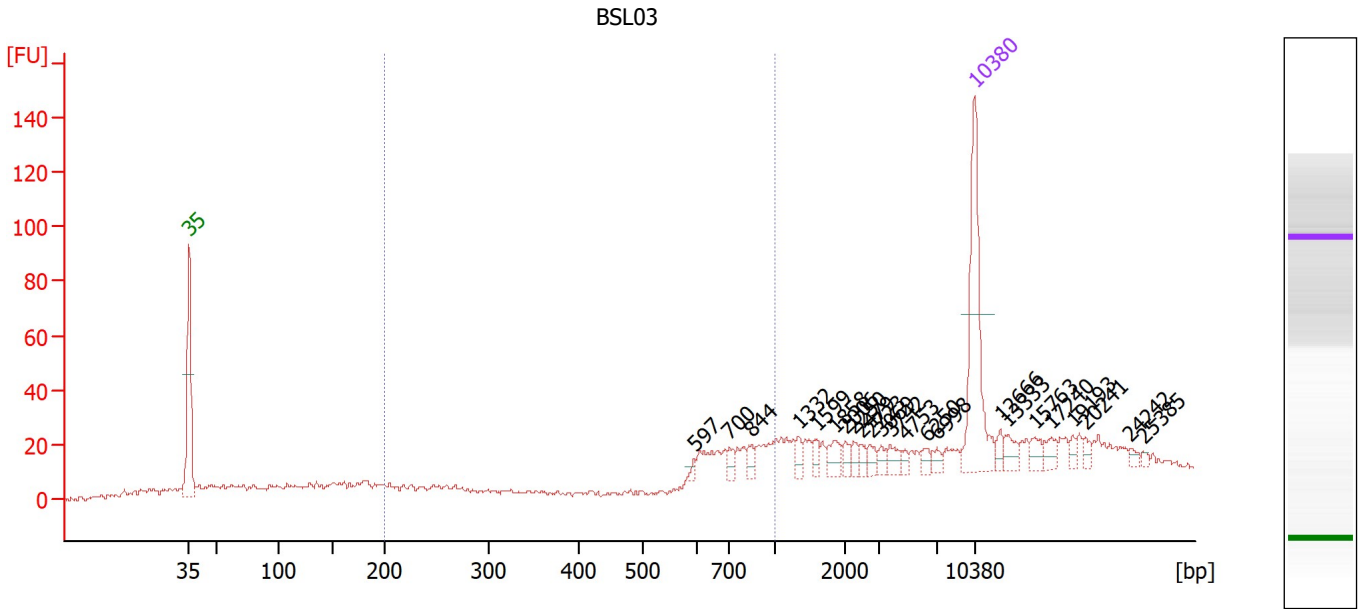
BSL02

| 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 | 2,384.7 | 79 | 579 | 16.7 | 1,743.18 | 4,750.5 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BSL03

Number of peaks found: 23 Corr. Area 1: 88.4
 Noise: 1.0

Peak table for sample 9 : BSL03

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 597 | 3.53 | 9.0 | |
| 3 | 700 | 7.47 | 16.2 | |
| 4 | 844 | 7.42 | 13.3 | |
| 5 | 1,332 | 6.59 | 7.5 | |
| 6 | 1,599 | 5.93 | 5.6 | |
| 7 | 1,858 | 10.63 | 8.7 | |
| 8 | 2,006 | 4.86 | 3.7 | |
| 9 | 2,250 | 5.11 | 3.4 | |
| 10 | 2,479 | 4.13 | 2.5 | |
| 11 | 2,723 | 5.61 | 3.1 | |
| 12 | 3,069 | 4.71 | 2.3 | |
| 13 | 3,742 | 7.10 | 2.9 | |
| 14 | 4,753 | 3.13 | 1.0 | |
| 15 | 6,250 | 4.62 | 1.1 | |
| 16 | 6,998 | 4.62 | 1.0 | |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 18 | 12,666 | 0.00 | 0.0 | |
| 19 | 13,333 | 0.00 | 0.0 | |
| 20 | 15,763 | 0.00 | 0.0 | |
| 21 | 17,240 | 0.00 | 0.0 | |
| 22 | 19,193 | 0.00 | 0.0 | |
| 23 | 20,241 | 0.00 | 0.0 | |
| 24 | 24,242 | 0.00 | 0.0 | |
| 25 | 25,385 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...

... Region table for sample 9 :

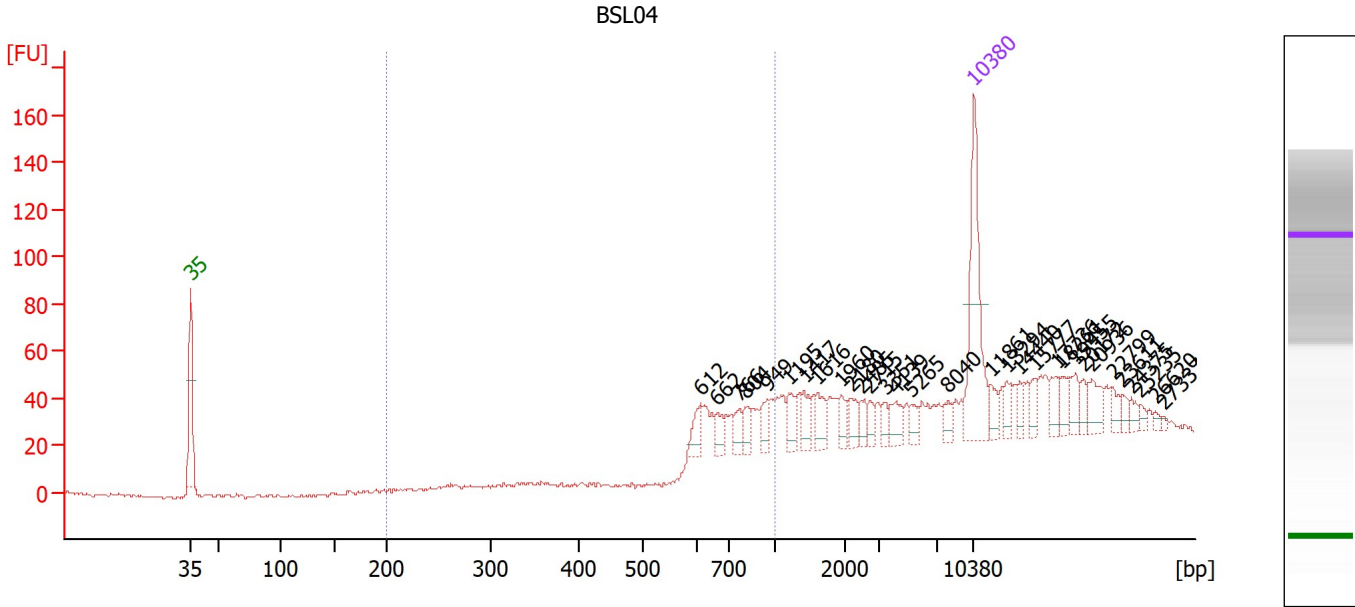
BSL03

| 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 | 88.4 | 19 | 747 | 21.0 | 67.88 | 158.8 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BSL04

Number of peaks found: 31 Corr. Area 1: 159.1
 Noise: 0.7

Peak table for sample 10 : BSL04

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 612 | 16.60 | 41.1 | |
| 3 | 662 | 11.91 | 27.2 | |
| 4 | 766 | 12.78 | 25.3 | |
| 5 | 804 | 11.20 | 21.1 | |
| 6 | 949 | 13.61 | 21.7 | |
| 7 | 1,195 | 14.23 | 18.0 | |
| 8 | 1,417 | 13.59 | 14.5 | |
| 9 | 1,616 | 15.23 | 14.3 | |
| 10 | 1,960 | 8.64 | 6.7 | |
| 11 | 2,180 | 11.02 | 7.7 | |
| 12 | 2,485 | 8.73 | 5.3 | |
| 13 | 2,715 | 6.78 | 3.8 | |
| 14 | 3,351 | 6.87 | 3.1 | |
| 15 | 4,139 | 12.98 | 4.8 | |
| 16 | 5,265 | 7.69 | 2.2 | |
| 17 | 8,040 | 8.34 | 1.6 | |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 19 | 11,861 | 0.00 | 0.0 | |
| 20 | 13,294 | 0.00 | 0.0 | |
| 21 | 14,440 | 0.00 | 0.0 | |
| 22 | 15,777 | 0.00 | 0.0 | |
| 23 | 17,736 | 0.00 | 0.0 | |
| 24 | 18,261 | 0.00 | 0.0 | |
| 25 | 19,455 | 0.00 | 0.0 | |
| 26 | 20,172 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 10 : BSL04

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 27 | 20,936 | 0.00 | 0.0 | |
| 28 | 22,799 | 0.00 | 0.0 | |
| 29 | 23,611 | 0.00 | 0.0 | |
| 30 | 24,375 | 0.00 | 0.0 | |
| 31 | 25,235 | 0.00 | 0.0 | |
| 32 | 26,620 | 0.00 | 0.0 | |
| 33 | 27,337 | 0.00 | 0.0 | |

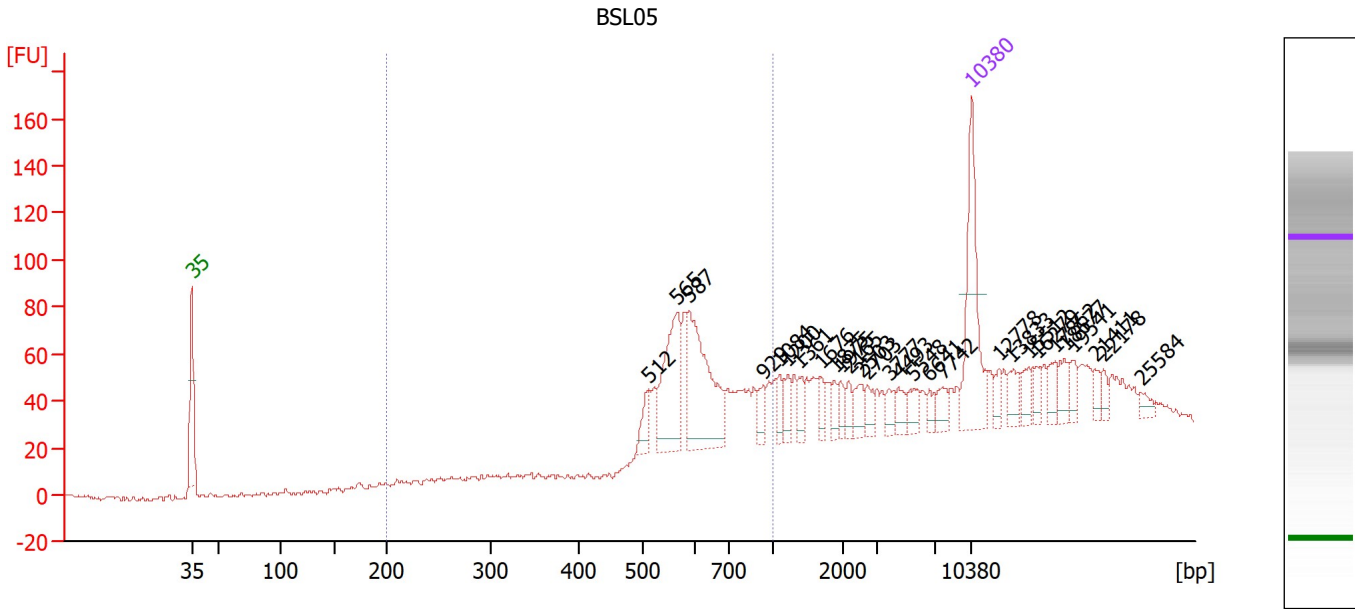
Region table for sample 10 : BSL04

| 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 | 159.1 | 21 | 757 | 16.8 | 117.47 | 241.8 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BSL05

Number of peaks found: 28 Corr. Area 1: 473.8
 Noise: 1.1

Peak table for sample 11 : BSL05

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 512 | 18.47 | 54.7 | |
| 3 | 565 | 84.71 | 227.3 | |
| 4 | 587 | 111.97 | 288.8 | |
| 5 | 929 | 10.84 | 17.7 | |
| 6 | 1,084 | 12.79 | 17.9 | |
| 7 | 1,200 | 12.42 | 15.7 | |
| 8 | 1,361 | 10.90 | 12.1 | |
| 9 | 1,676 | 9.90 | 8.9 | |
| 10 | 1,875 | 8.87 | 7.2 | |
| 11 | 1,975 | 8.47 | 6.5 | |
| 12 | 2,165 | 9.23 | 6.5 | |
| 13 | 2,503 | 12.95 | 7.8 | |
| 14 | 2,703 | 10.02 | 5.6 | |
| 15 | 3,777 | 9.65 | 3.9 | |
| 16 | 4,493 | 10.42 | 3.5 | |
| 17 | 5,548 | 11.80 | 3.2 | |
| 18 | 6,641 | 7.22 | 1.6 | |
| 19 | 7,742 | 11.16 | 2.2 | |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 21 | 12,778 | 0.00 | 0.0 | |
| 22 | 13,833 | 0.00 | 0.0 | |
| 23 | 15,512 | 0.00 | 0.0 | |
| 24 | 16,279 | 0.00 | 0.0 | |
| 25 | 17,862 | 0.00 | 0.0 | |
| 26 | 18,677 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : BSL05

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 27 | 19,541 | 0.00 | 0.0 | |
| 28 | 21,411 | 0.00 | 0.0 | |
| 29 | 22,178 | 0.00 | 0.0 | |
| 30 | 25,584 | 0.00 | 0.0 | |

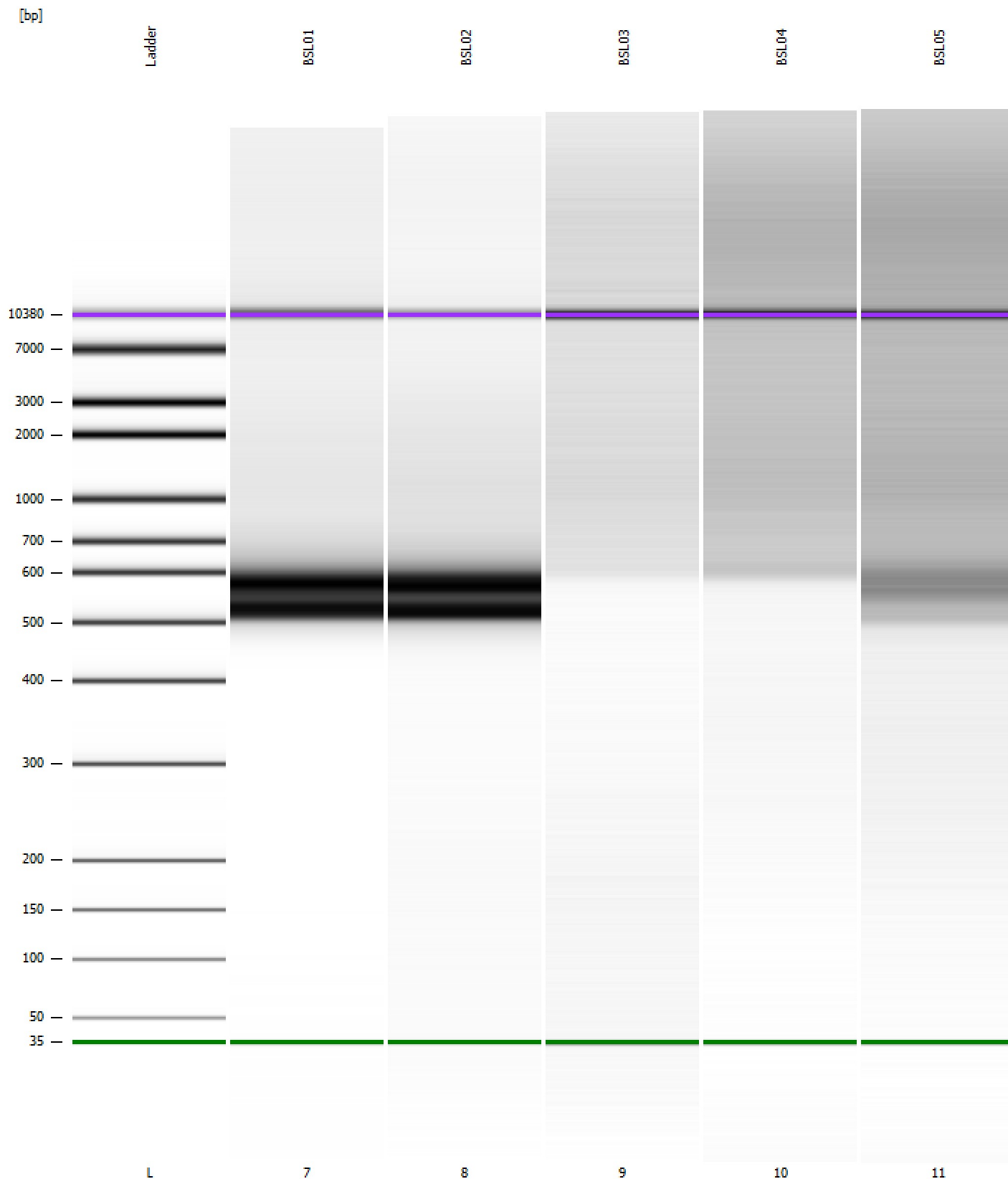
Region table for sample 11 : BSL05

| 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 | 473.8 | 42 | 649 | 19.9 | 344.78 | 837.2 |  |

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
Modified: 8/14/2020 11:30:07 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...er1_High Sensitivity DNA Assay_2020-08-14_004_MiSeq1022.xad

Created: 8/14/2020 10:21:43 AM
 Modified: 8/14/2020 11:30:07 AM

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 | | 8/14/2020 11:02:12 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2020-08-14\Bioanalyze r1_High Sensitivity DNA Assay_2020-08-14_004.xad) | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 8/14/2020 10:21:48 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |