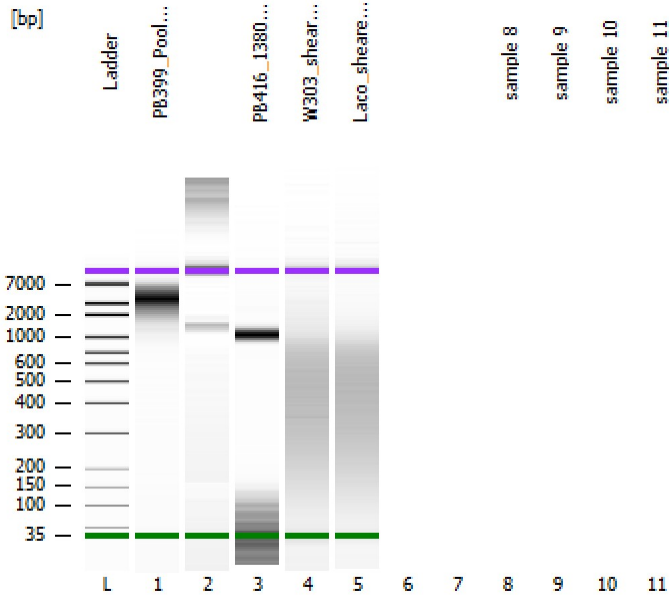


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
Modified: 12/5/2019 4:36:43 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

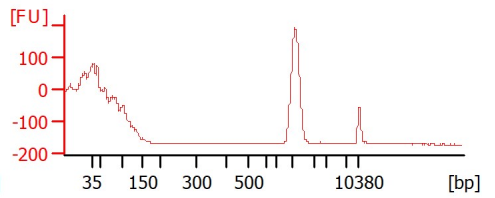
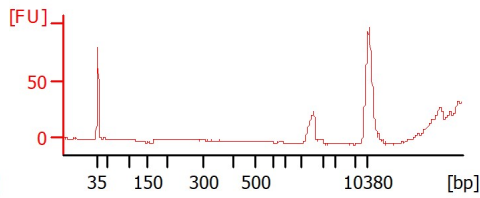
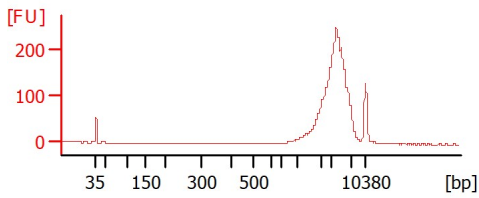
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

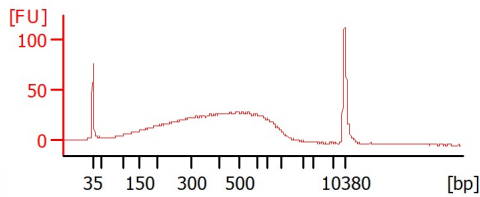
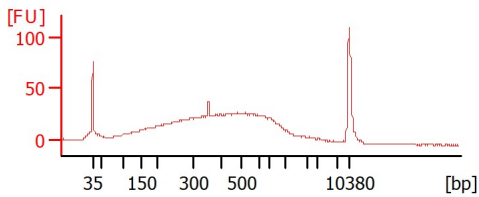
PB399_Pool2_B_IsoSeq

PB416_1380_PB1_Amplicon Lib



W303_sheared(1:10)

Laco_sheared(1:10)



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-----------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| PB399_Pool2_B_IsoSeq | | <input type="checkbox"/> | ✓ | | | |
| | | <input type="checkbox"/> | ✓ | | | |
| PB416_1380_PB1_Amplicon Lib | | <input type="checkbox"/> | ✓ | | | |
| W303_sheared(1:10) | | <input type="checkbox"/> | ✓ | | | |
| Laco_sheared(1:10) | | <input type="checkbox"/> | ✓ | | | |
| | | <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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 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

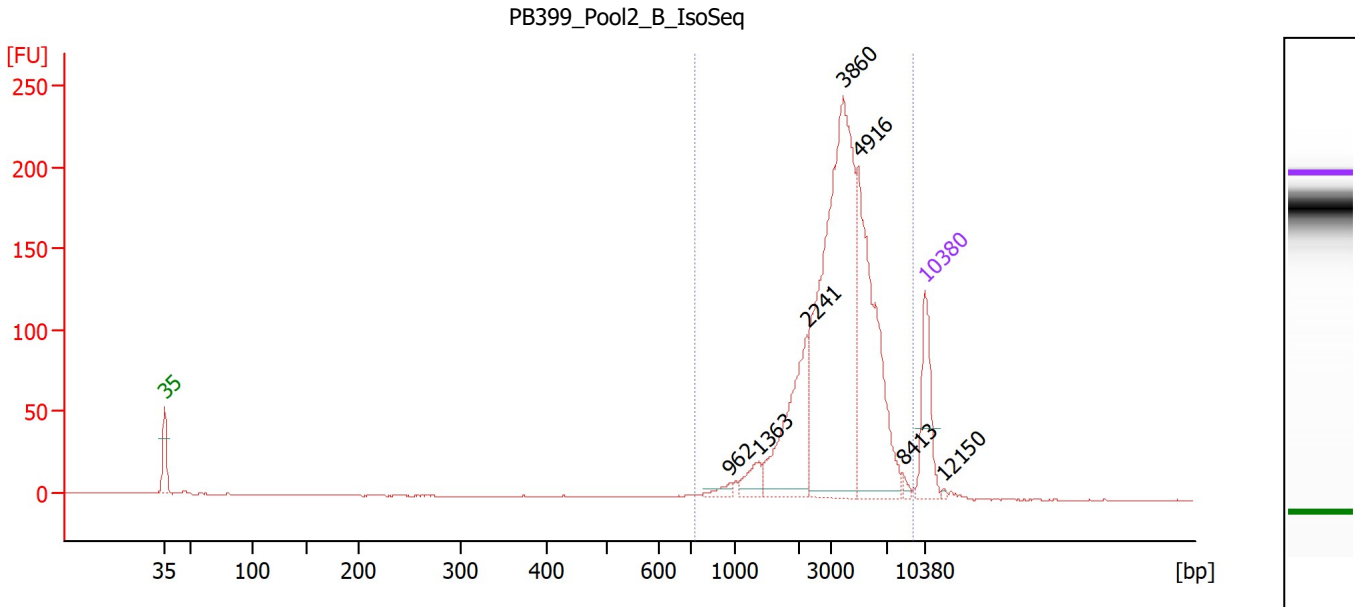
Ladder

| 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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary



Overall Results for sample 1 : PB399 Pool2 B IsoSeq

Number of peaks found: 7 Corr. Area 1: 1,466.2
 Noise: 0.2

Peak table for sample 1 : PB399 Pool2 B IsoSeq

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 962 | 11.41 | 18.0 | |
| 3 | 1,363 | 27.90 | 31.0 | |
| 4 | 2,241 | 154.50 | 104.4 | |
| 5 | 3,860 | 536.02 | 210.4 | |
| 6 | 4,916 | 279.96 | 86.3 | |
| 7 | 8,413 | 5.17 | 0.9 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 9 | 12,150 | 0.00 | 0.0 | |

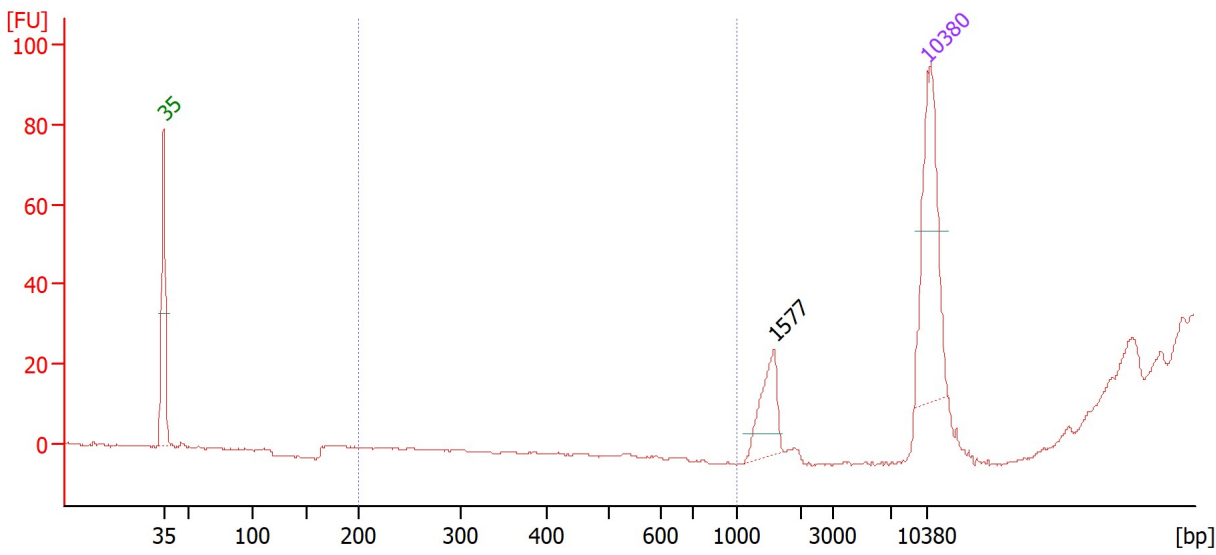
Region table for sample 1 : PB399 Pool2 B IsoSeq

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 733 | 9,279 | 1,466.2 | 99 | 3,830 | 42.2 | 1,029.98 | 497.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 :

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 2 :

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 1,577 | 31.49 | 30.3 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

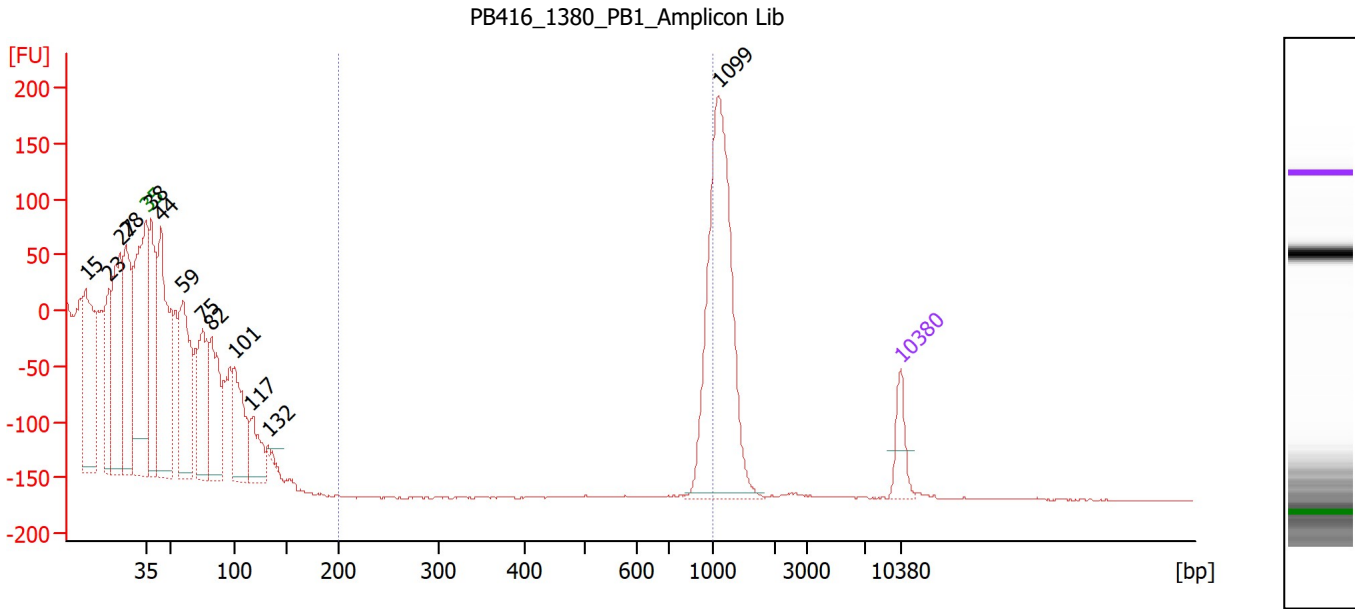
Region table for sample 2 :

| 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 | 0.0 | 0 | 0 | 0.0 | 0.00 | 0.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PB416 1380 PB1 Amplicon Lib

Number of peaks found: 13 Corr. Area 1: 116.3
 Noise: 0.4

Peak table for sample 3 : PB416 1380 PB1 Amplicon Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 0.00 | 0.0 | |
| 2 | 23 | 0.00 | 0.0 | |
| 3 | 27 | 0.00 | 0.0 | |
| 4 | 28 | 0.00 | 0.0 | |
| 5 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 6 | 38 | 628.58 | 24,976.0 | |
| 7 | 44 | 1,008.80 | 34,920.1 | |
| 8 | 59 | 663.93 | 17,049.5 | |
| 9 | 75 | 514.37 | 10,422.1 | |
| 10 | 82 | 457.06 | 8,442.6 | |
| 11 | 101 | 369.28 | 5,543.4 | |
| 12 | 117 | 214.12 | 2,781.5 | |
| 13 | 132 | 18.34 | 209.9 | |
| 14 | 1,099 | 850.07 | 1,172.3 | |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

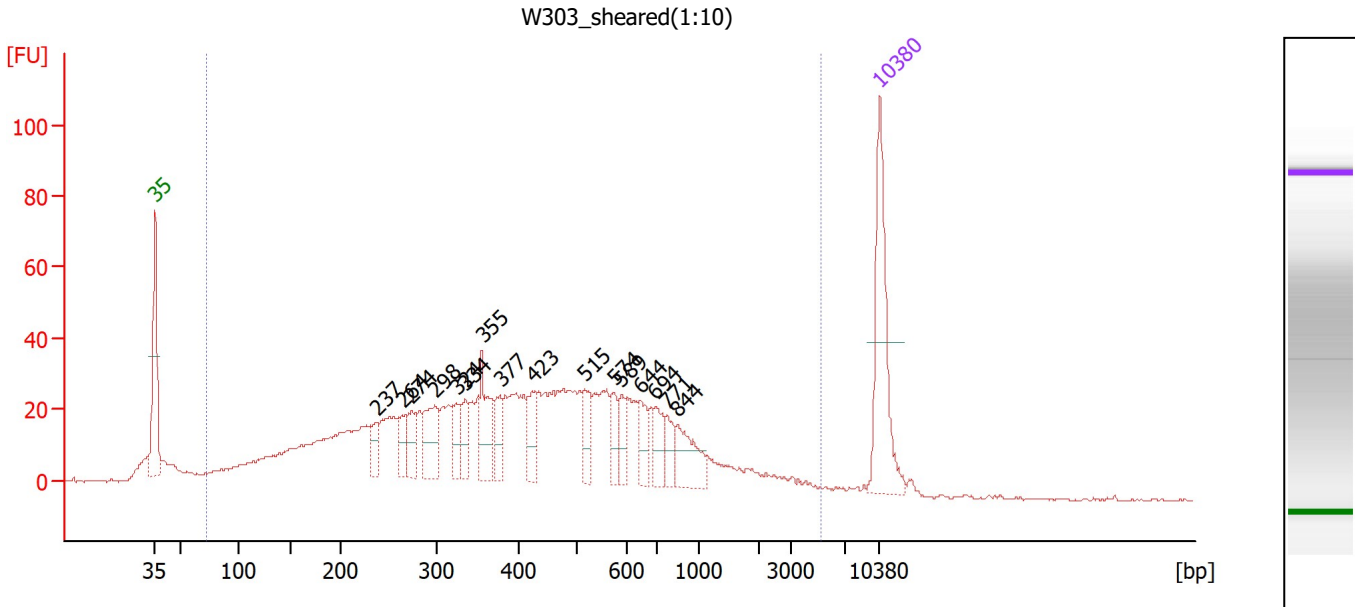
Region table for sample 3 : PB416 1380 PB1 Amplicon Lib

| 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 | 116.3 | 9 | 971 | 1.9 | 98.90 | 154.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : W303_sheared(1:10)

Height Threshold [FU] : 10

Overall Results for sample 4 : W303_sheared(1:10)

Number of peaks found: 16 Corr. Area 1: 1,273.1
 Noise: 0.3

Peak table for sample 4 : W303_sheared(1:10)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 237 | 20.81 | 132.8 | |
| 3 | 264 | 18.48 | 105.9 | |
| 4 | 274 | 26.29 | 145.6 | |
| 5 | 298 | 46.13 | 234.8 | |
| 6 | 324 | 21.09 | 98.6 | |
| 7 | 334 | 22.69 | 102.8 | |
| 8 | 355 | 48.66 | 207.9 | |
| 9 | 377 | 23.73 | 95.4 | |
| 10 | 423 | 25.00 | 89.5 | |
| 11 | 515 | 25.50 | 75.1 | |
| 12 | 574 | 18.93 | 50.0 | |
| 13 | 589 | 20.44 | 52.6 | |
| 14 | 644 | 19.93 | 46.9 | |
| 15 | 694 | 22.59 | 49.3 | |
| 16 | 771 | 15.74 | 30.9 | |
| 17 | 844 | 34.35 | 61.7 | |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker |

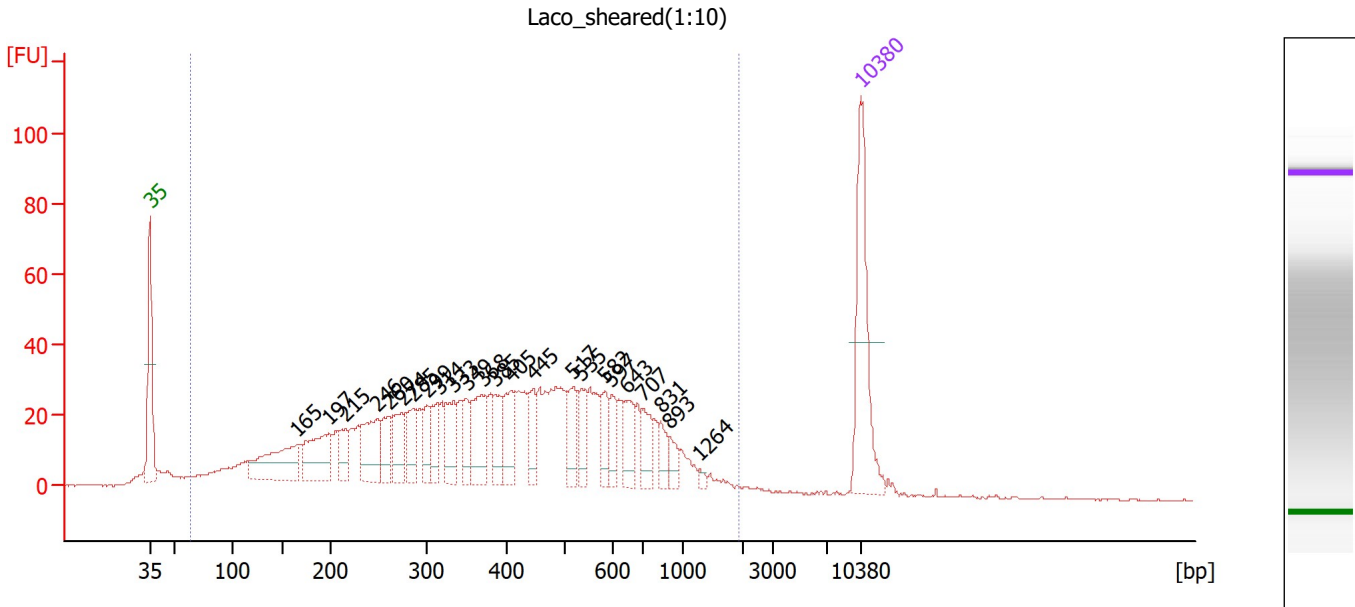
Region table for sample 4 : W303_sheared(1:10)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 73 | 5,220 | 1,273.1 | 96 | 522 | 93.3 | 1,231.98 | 6,449.6 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Laco_sheared(1:10)

Number of peaks found: 24 Corr. Area 1: 1,350.5
 Noise: 0.3

Peak table for sample 5 : Laco_sheared(1:10)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 165 | 76.54 | 701.9 | |
| 3 | 197 | 62.21 | 479.0 | |
| 4 | 215 | 22.75 | 160.7 | |
| 5 | 246 | 51.32 | 315.6 | |
| 6 | 260 | 29.61 | 172.4 | |
| 7 | 274 | 36.49 | 201.6 | |
| 8 | 285 | 32.92 | 174.7 | |
| 9 | 299 | 20.82 | 105.4 | |
| 10 | 314 | 25.45 | 122.9 | |
| 11 | 333 | 32.81 | 149.2 | |
| 12 | 349 | 20.44 | 88.7 | |
| 13 | 368 | 45.06 | 185.4 | |
| 14 | 385 | 24.58 | 96.8 | |
| 15 | 405 | 36.79 | 137.7 | |
| 16 | 445 | 24.22 | 82.5 | |
| 17 | 517 | 26.26 | 76.9 | |
| 18 | 535 | 24.07 | 68.2 | |
| 19 | 582 | 19.12 | 49.8 | |
| 20 | 597 | 18.23 | 46.3 | |
| 21 | 643 | 25.28 | 59.6 | |
| 22 | 707 | 22.24 | 47.7 | |
| 23 | 831 | 12.69 | 23.1 | |
| 24 | 893 | 11.29 | 19.1 | |
| 25 | 1,264 | 3.13 | 3.8 | |
| 26 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Electropherogram Summary Continued ...

... Region table for sample 5 :

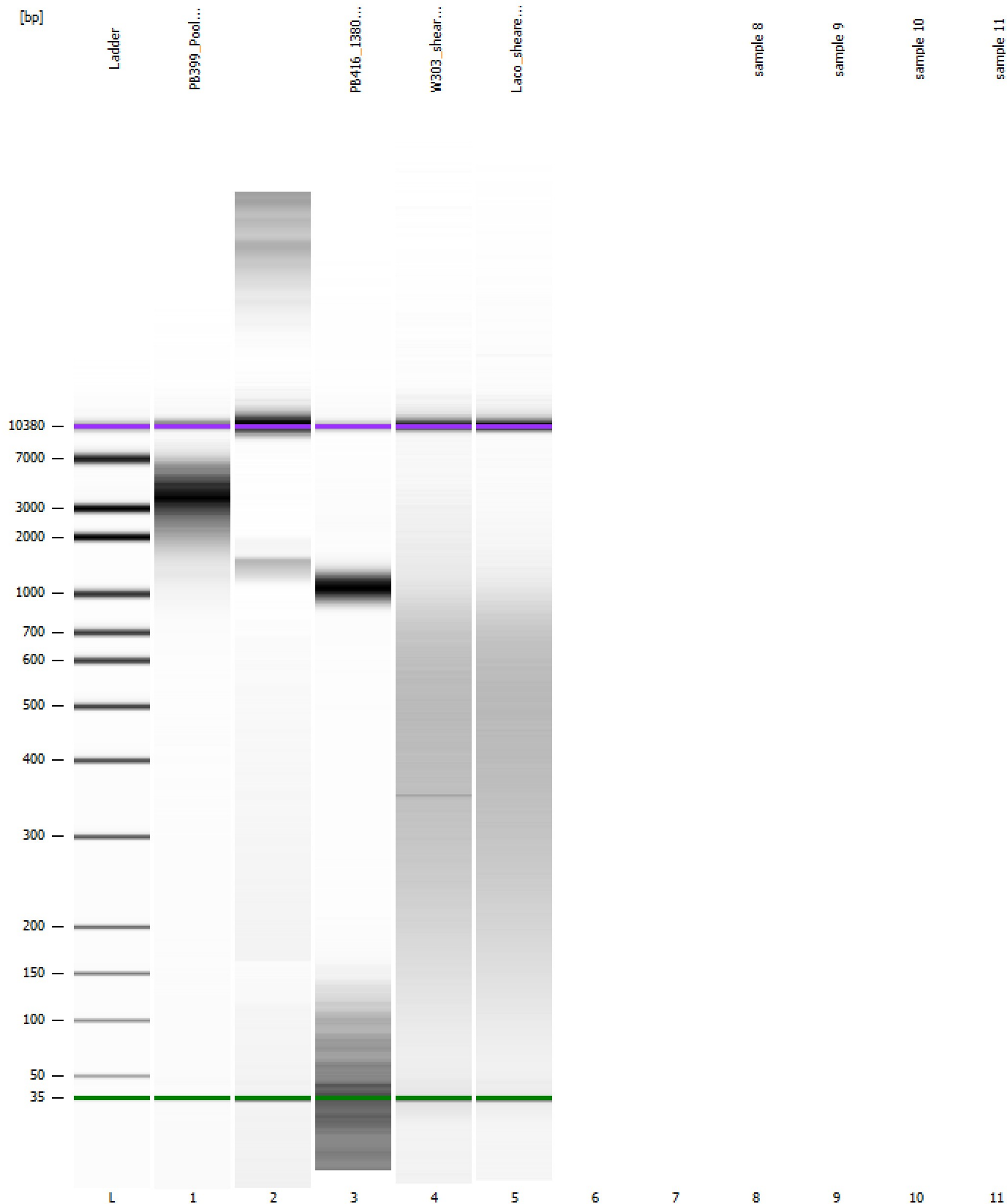
Laco sheared(1:10)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 64 | 1,919 | 1,350.5 | 96 | 439 | 57.3 | 1,276.58 | 7,192.6 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
Modified: 12/5/2019 4:36:43 PM

Gel Image

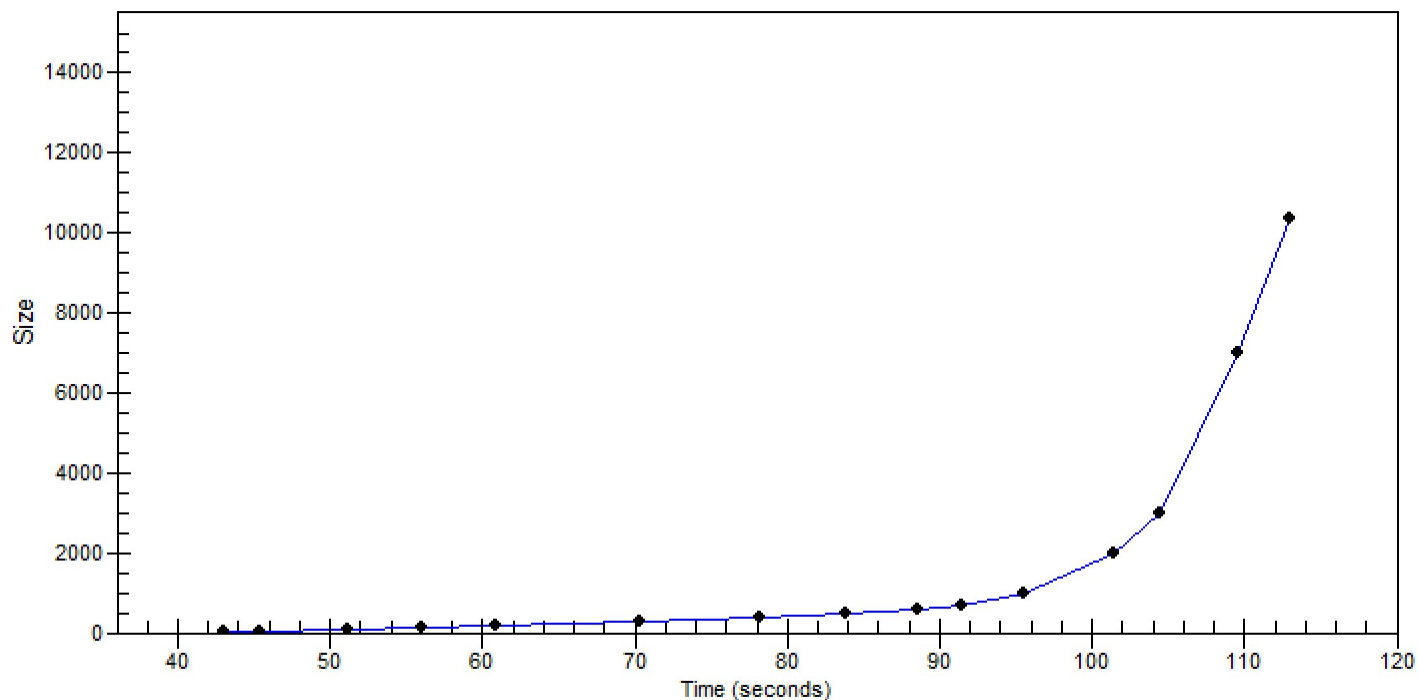


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
Modified: 12/5/2019 4:36:43 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
Modified: 12/5/2019 4:36:43 PM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-05_001.xad

Created: 12/5/2019 4:03:39 PM
 Modified: 12/5/2019 4:36:43 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--------------------------------------------------------------------------------------------------------------|--------|------------|----------|--------------|----------------------|-------------------------------------|---------|------------------|
| Run ended on port 1 (Number of wells acquired: 6) | | Instrument | Run | | 12/5/2019 4:27:49 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2019-12-05\Bioanalyze r1_High Sensitivity DNA Assay_2019-12-05_001.xad) | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 12/5/2019 4:03:45 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |