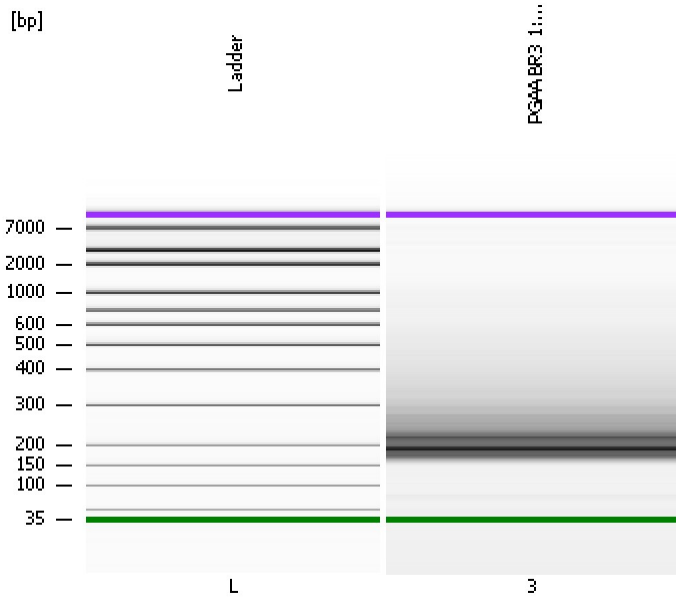


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
Modified: 3/8/2016 12:30:35 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

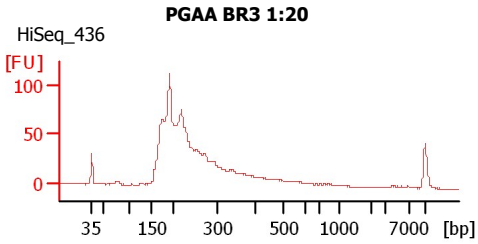
Assay Information:

Assay Origin Path: C:\Program Files\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:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
Modified: 3/8/2016 12:30:35 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| PGAA BR3 1:20 | HiSeq_436 | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | | | | |

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
Modified: 3/8/2016 12:30:35 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

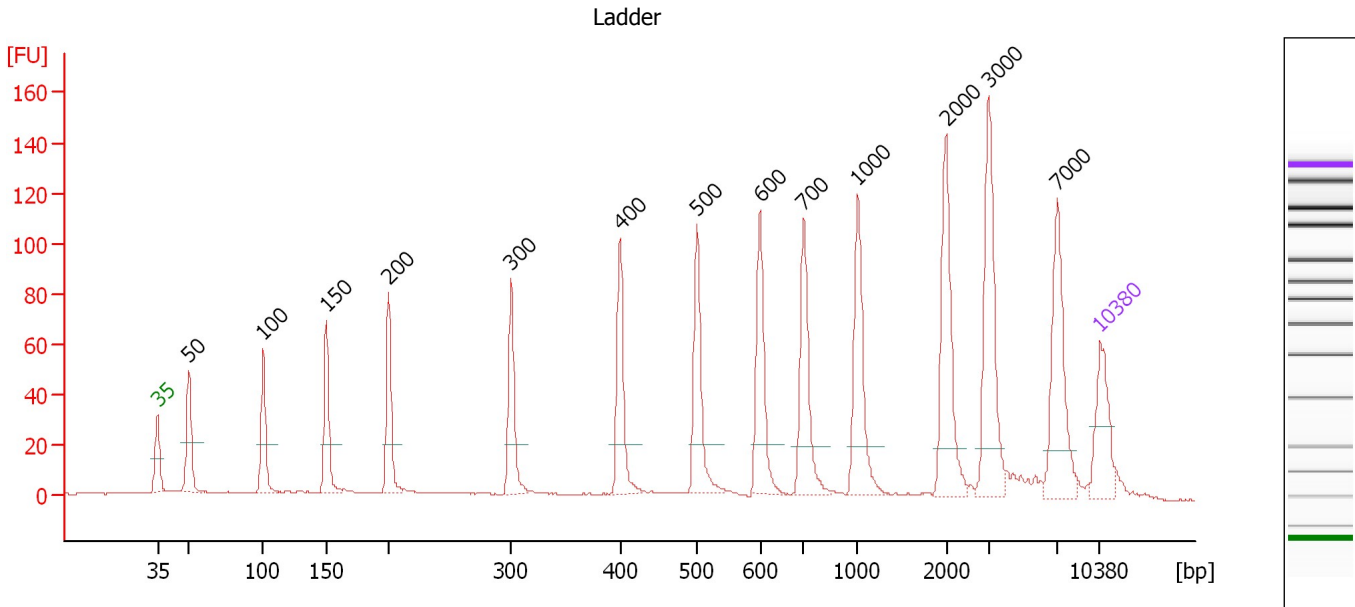
Ladder

| 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:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
 Modified: 3/8/2016 12:30:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

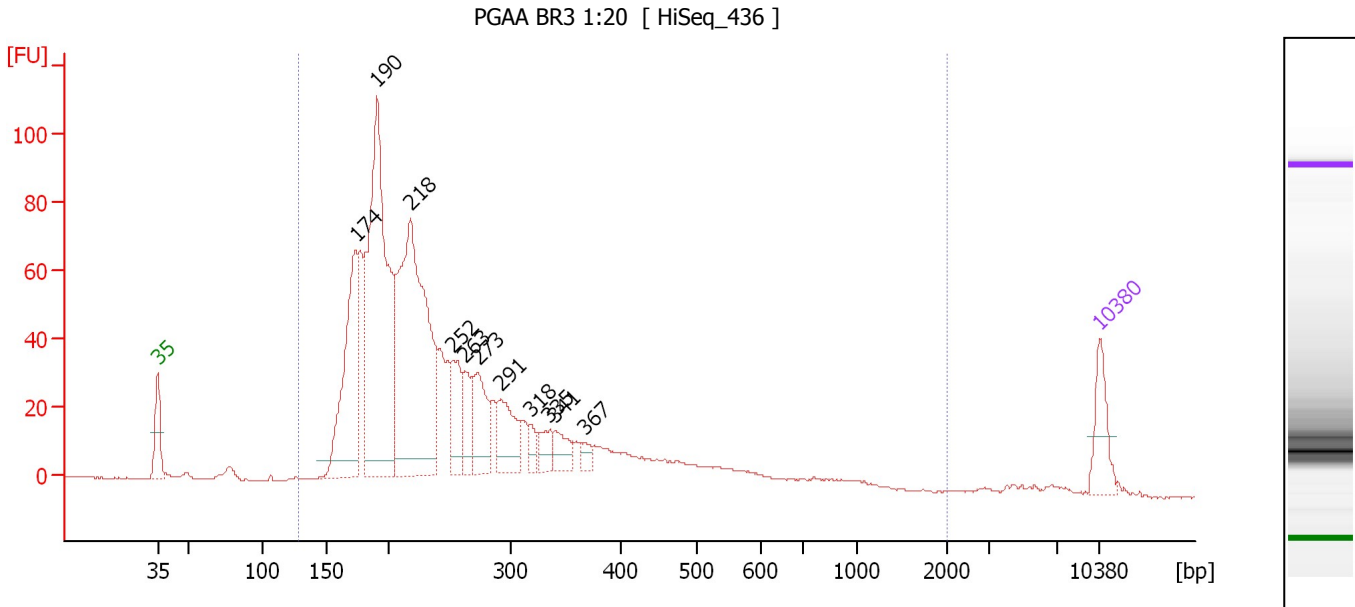
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.35 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.86 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.56 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.17 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.26 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.34 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.08 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.74 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.99 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.01 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.57 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.73 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.84 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
 Modified: 3/8/2016 12:30:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PGAA BR3 1:20

Number of peaks found: 11 Corr. Area 1: 1,372.3
 Noise: 0.2

Peak table for sample 3 : PGAA BR3 1:20

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 174 | 451.76 | 3,943.9 | | 57.73 |
| 3 | 190 | 931.88 | 7,412.4 | | 59.30 |
| 4 | 218 | 922.13 | 6,419.9 | | 61.77 |
| 5 | 252 | 134.37 | 806.3 | | 64.94 |
| 6 | 263 | 93.88 | 541.6 | | 65.86 |
| 7 | 273 | 155.66 | 864.8 | | 66.78 |
| 8 | 291 | 136.76 | 711.1 | | 68.48 |
| 9 | 318 | 31.06 | 148.2 | | 70.68 |
| 10 | 335 | 45.77 | 206.9 | | 72.10 |
| 11 | 341 | 55.22 | 245.5 | | 72.56 |
| 12 | 367 | 24.13 | 99.6 | | 74.67 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

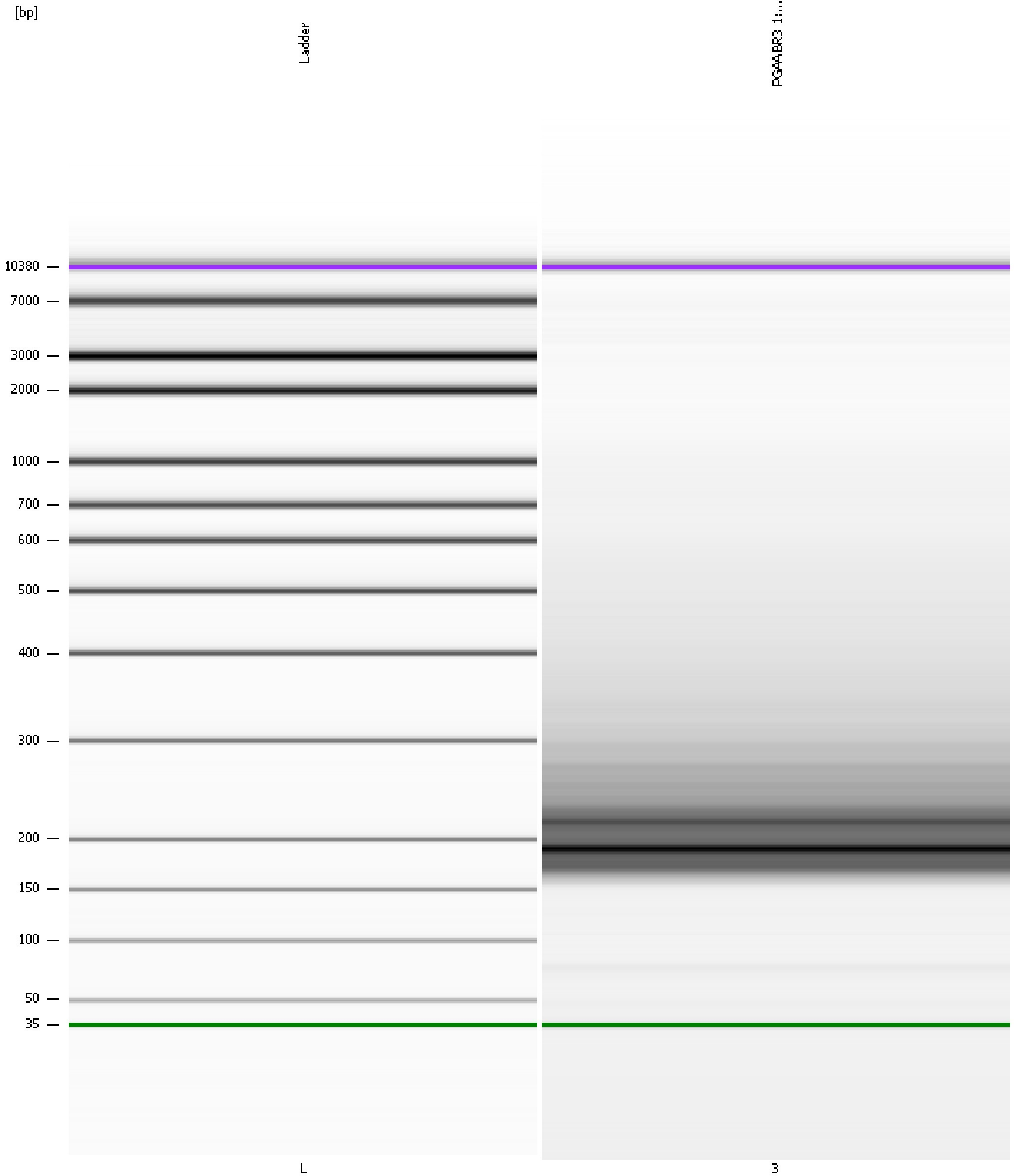
Region table for sample 3 : PGAA BR3 1:20

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 128 | 2,035 | 285 | 1,372.3 | 27,455.5 | 4,167.23 | 97 | 59.8 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
Modified: 3/8/2016 12:30:35 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-03-08\2016-03-08_001_PGAABR3.xad

Created: 3/8/2016 11:37:00 AM
 Modified: 3/8/2016 12:30:35 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 | | 3/8/2016 12:18:17 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_001.xad) | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/8/2016 11:37:06 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |