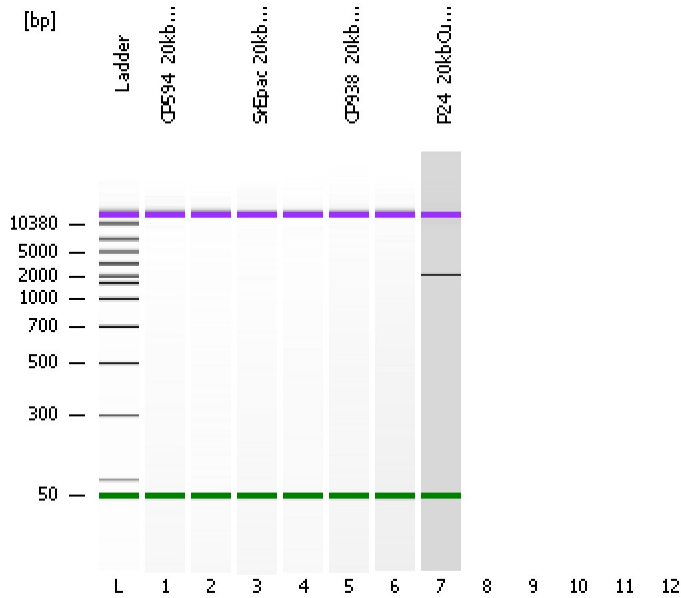


Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 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\DNA 12000 Series II.xsy

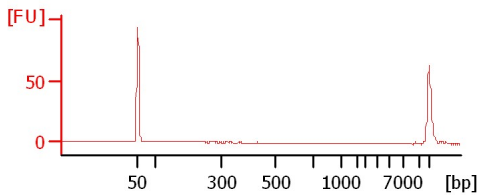
Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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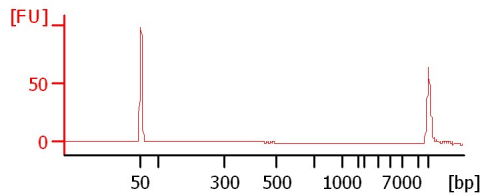
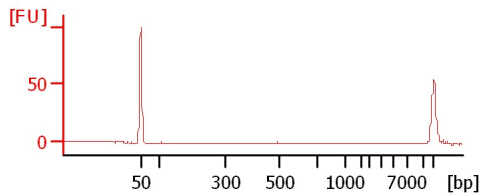
Chip Information:

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

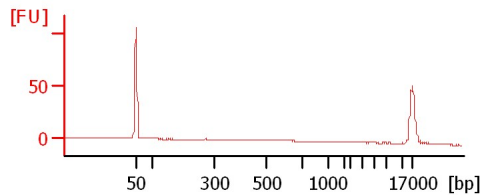
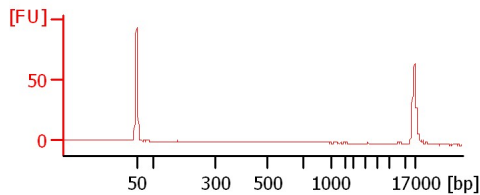
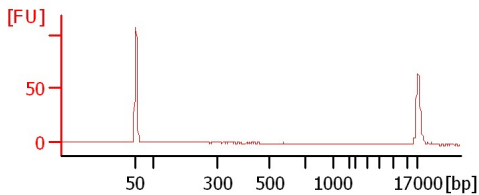
CP594_20kbCut_Lib



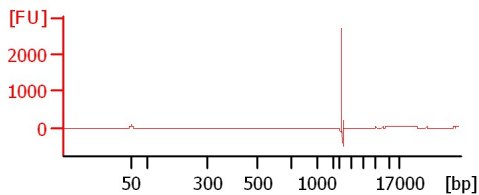
SrEpac 20kbCut_Lib



P24_20kbCut_Lib



P24_20kbCut_Lib



Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
 Modified: 4/6/2016 1:58:54 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|--------------------|----------------|--------------------------|--------|--------------------------|--------------|--------------|
| CP594_20kbCut_Lib | | <input type="checkbox"/> | ✓ | | | |
| SrEpac 20kbCut_Lib | | <input type="checkbox"/> | ✓ | | | |
| CP938_20kbCut_Lib | | <input type="checkbox"/> | ✓ | | | |
| P24_20kbCut_Lib | | <input type="checkbox"/> | ✓ | | | |
| | | <input type="checkbox"/> | | | | |
| | | <input type="checkbox"/> | | | | |
| | | <input type="checkbox"/> | | | | |
| | | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |
| Chip Lot # | | | | Reagent Kit Lot # | | |

Chip Comments :

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 99
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 98.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
Used Upper Marker for Quantitation
This is a Qualitative Assay Only
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 20
Integration End Time [s] : 98.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

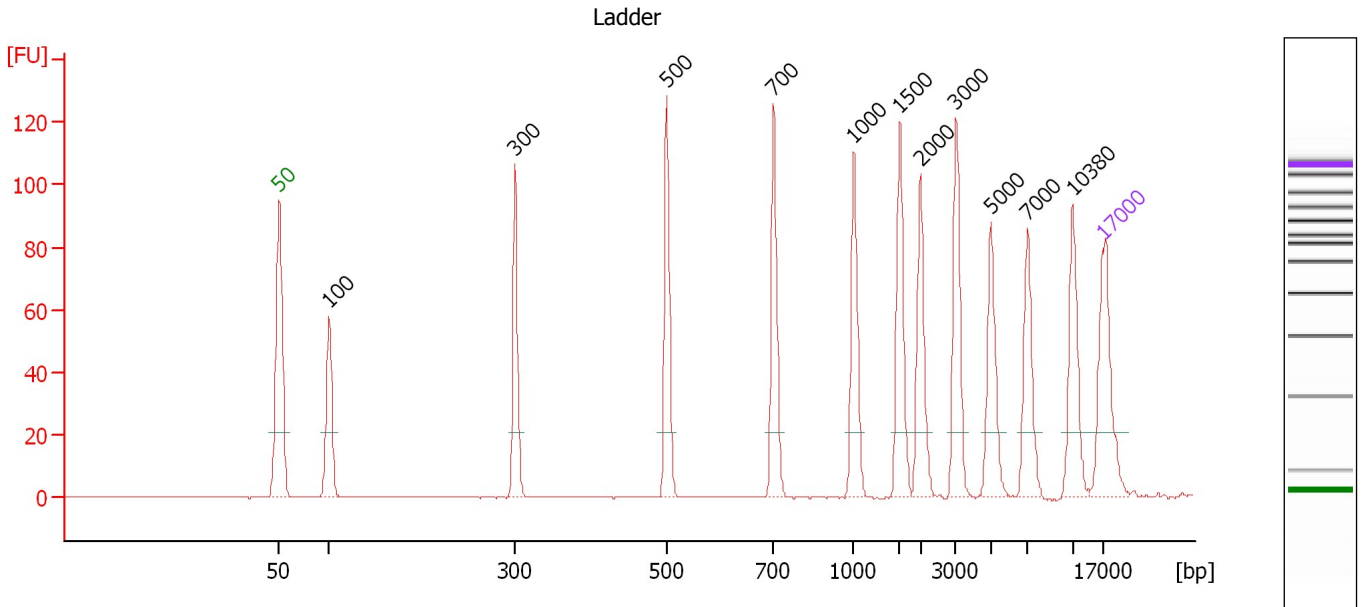
Ladder

| Ladder Peak | Size | Area |
|-------------|-------|------|
| 1 | 50 | 120 |
| 2 | 100 | 48 |
| 3 | 300 | 61 |
| 4 | 500 | 77 |
| 5 | 700 | 81 |
| 6 | 1000 | 86 |
| 7 | 1500 | 92 |
| 8 | 2000 | 92 |
| 9 | 3000 | 96 |
| 10 | 5000 | 100 |
| 11 | 7000 | 98 |
| 12 | 10380 | 102 |
| 13 | 17000 | 110 |

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
 Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary



Peak table for Ladder

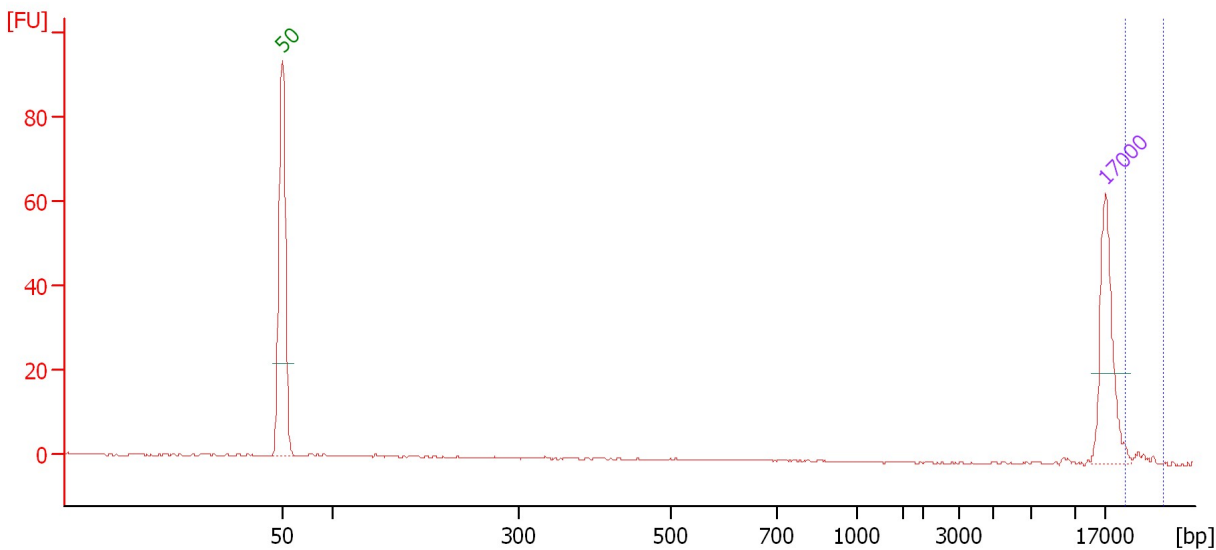
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 100 | 4.00 | 60.6 | Ladder Peak |
| 3 | 300 | 4.00 | 20.2 | Ladder Peak |
| 4 | 500 | 4.00 | 12.1 | Ladder Peak |
| 5 | 700 | 4.00 | 8.7 | Ladder Peak |
| 6 | 1,000 | 4.00 | 6.1 | Ladder Peak |
| 7 | 1,500 | 4.00 | 4.0 | Ladder Peak |
| 8 | 2,000 | 4.00 | 3.0 | Ladder Peak |
| 9 | 3,000 | 4.00 | 2.0 | Ladder Peak |
| 10 | 5,000 | 4.00 | 1.2 | Ladder Peak |
| 11 | 7,000 | 4.00 | 0.9 | Ladder Peak |
| 12 | 10,380 | 4.00 | 0.6 | Ladder Peak |
| 13 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
 Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...

CP594_20kbCut_Lib



Overall Results for sample 1 : CP594_20kbCut_Lib

Number of peaks found: 0 Area: 2.0

Peak table for sample 1 : CP594_20kbCut_Lib

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

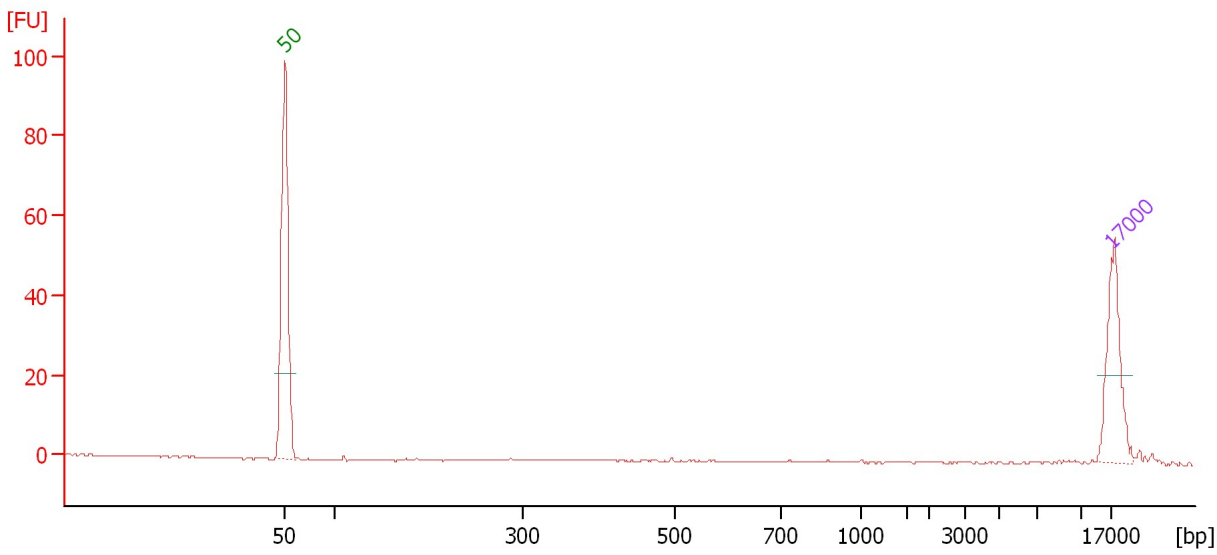
Region table for sample 1 : CP594_20kbCut_Lib

| From [bp] | To [bp] | Average Size [bp] | Conc. [ng/μl] | Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|---------------|------|------------|-----------------------------|-------|
| 21,533 | 29,682 | 24,215 | 0.13 | 2.0 | 47 | 7.9 | Blue |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 :

Number of peaks found: 0

Peak table for sample 2 :

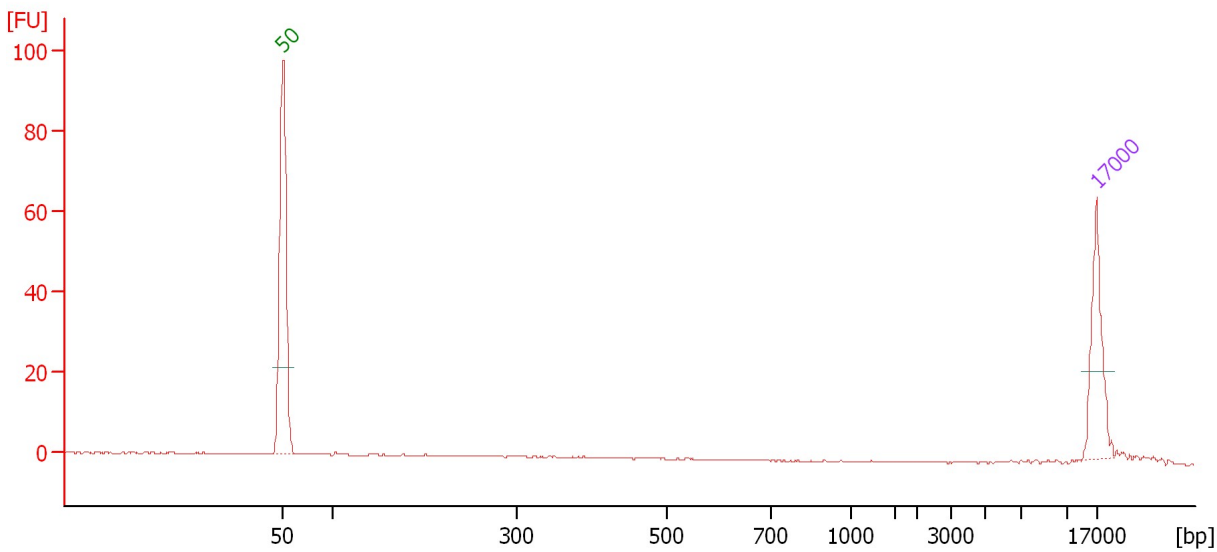
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...

SrEpac 20kbCut_Lib



Overall Results for sample 3 : SrEpac 20kbCut_Lib

Number of peaks found: 0

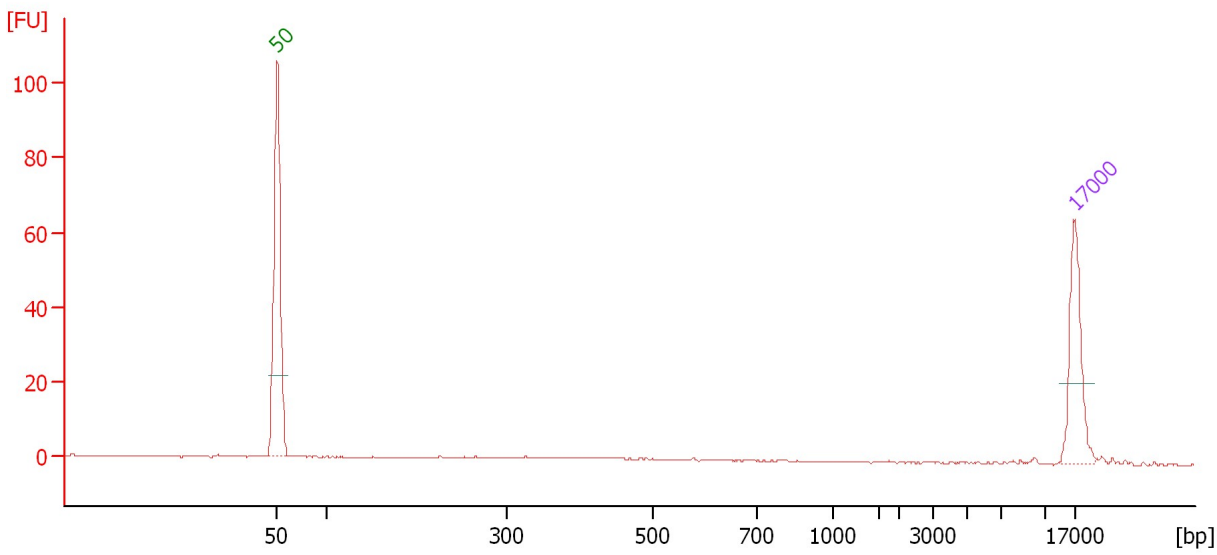
Peak table for sample 3 : SrEpac 20kbCut_Lib

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 :

Number of peaks found: 0

Peak table for sample 4 :

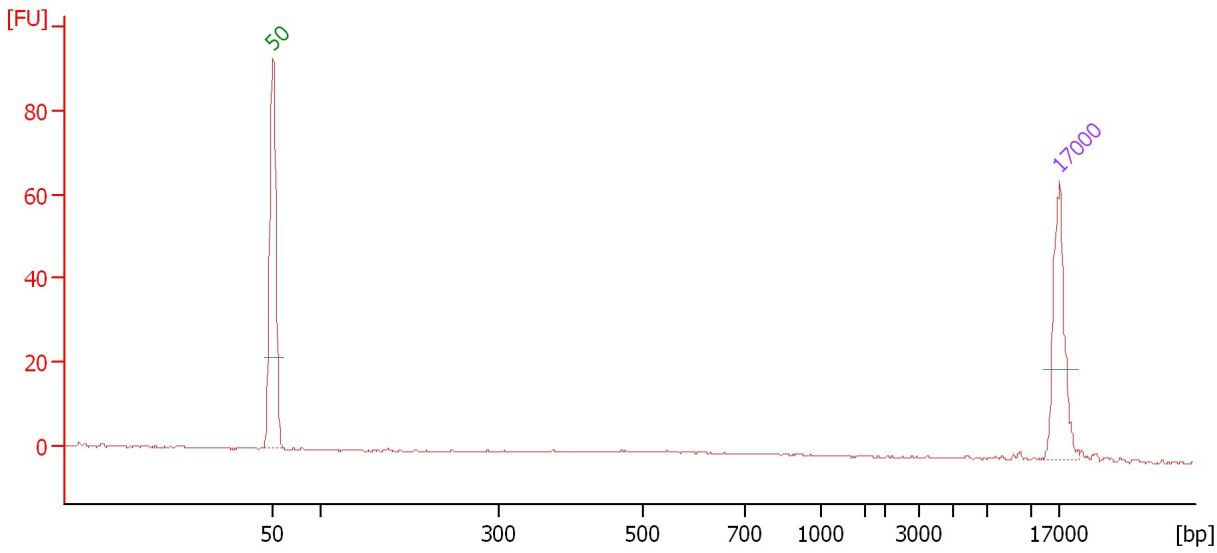
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...

CP938_20kbCut_Lib



Overall Results for sample 5 : CP938_20kbCut_Lib

Number of peaks found: 0

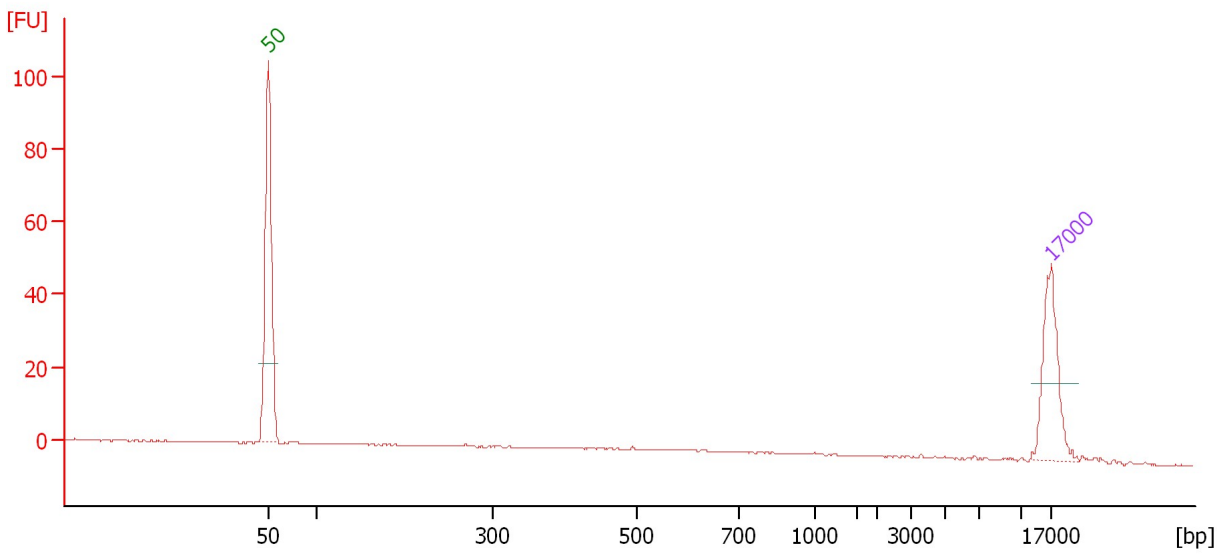
Peak table for sample 5 : CP938_20kbCut_Lib

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 :

Number of peaks found: 0

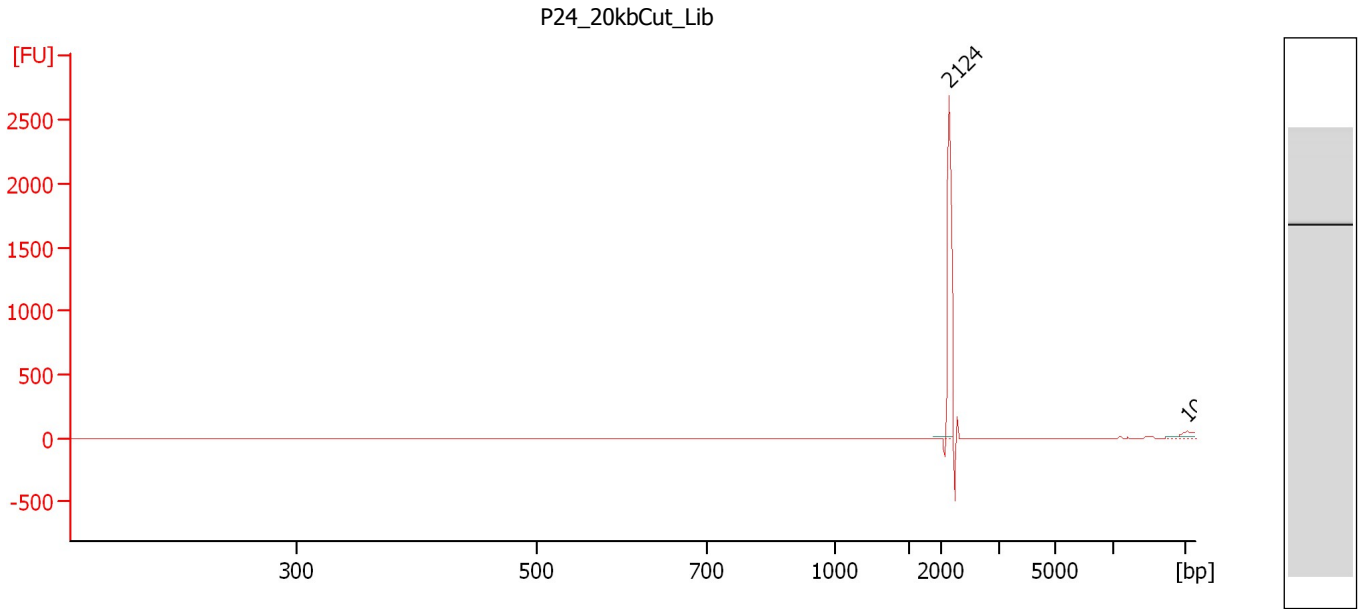
Peak table for sample 6 :

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P24_20kbCut_Lib

Number of peaks found: 2

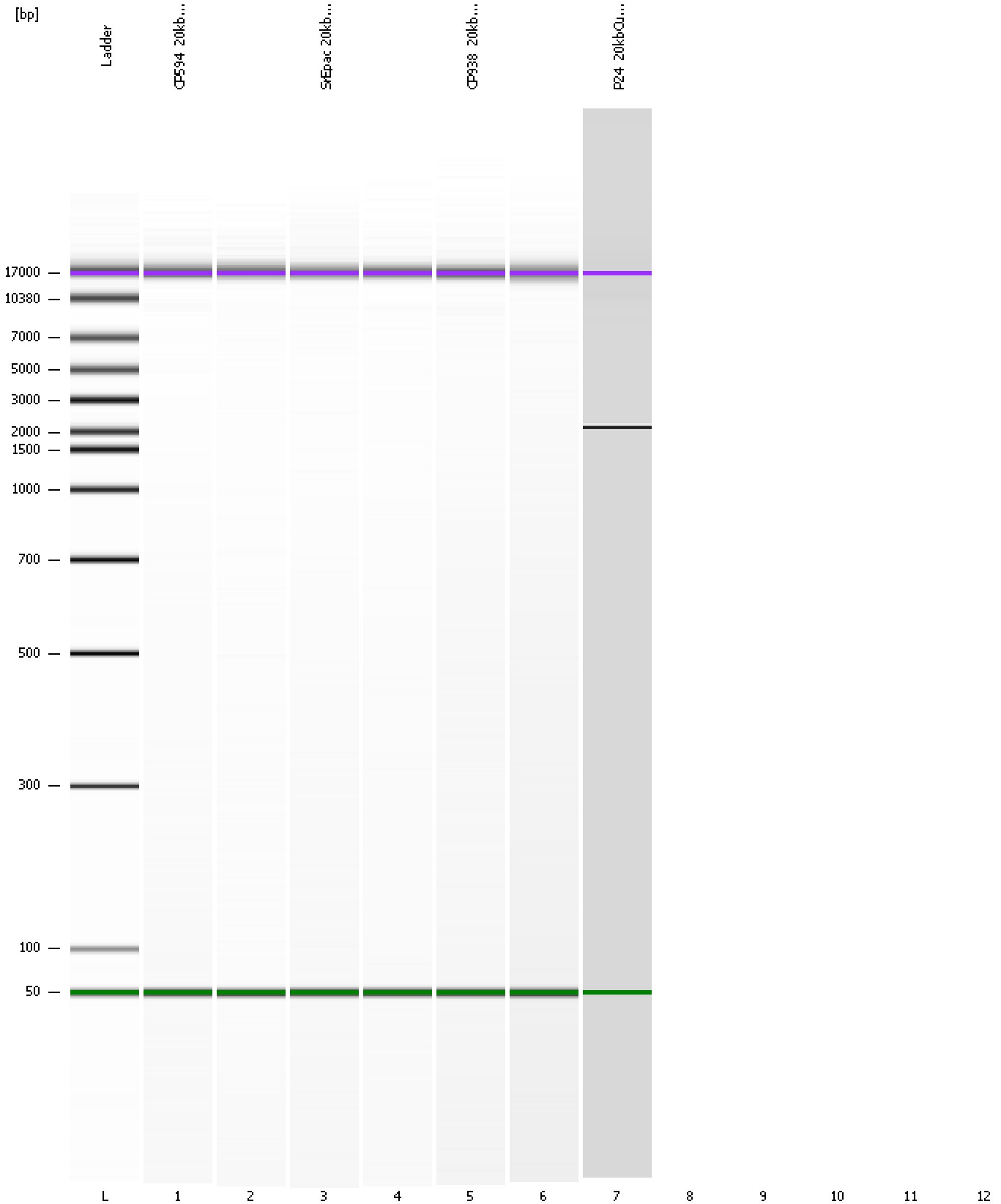
Peak table for sample 7 : P24_20kbCut_Lib

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 50 | 8.30 | 251.5 | Lower Marker |
| 2 | 2,124 | 16.19 | 11.5 | |
| 3 | 10,691 | 1.55 | 0.2 | |
| 4 | 17,000 | 4.20 | 0.4 | Upper Marker |

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Gel Image

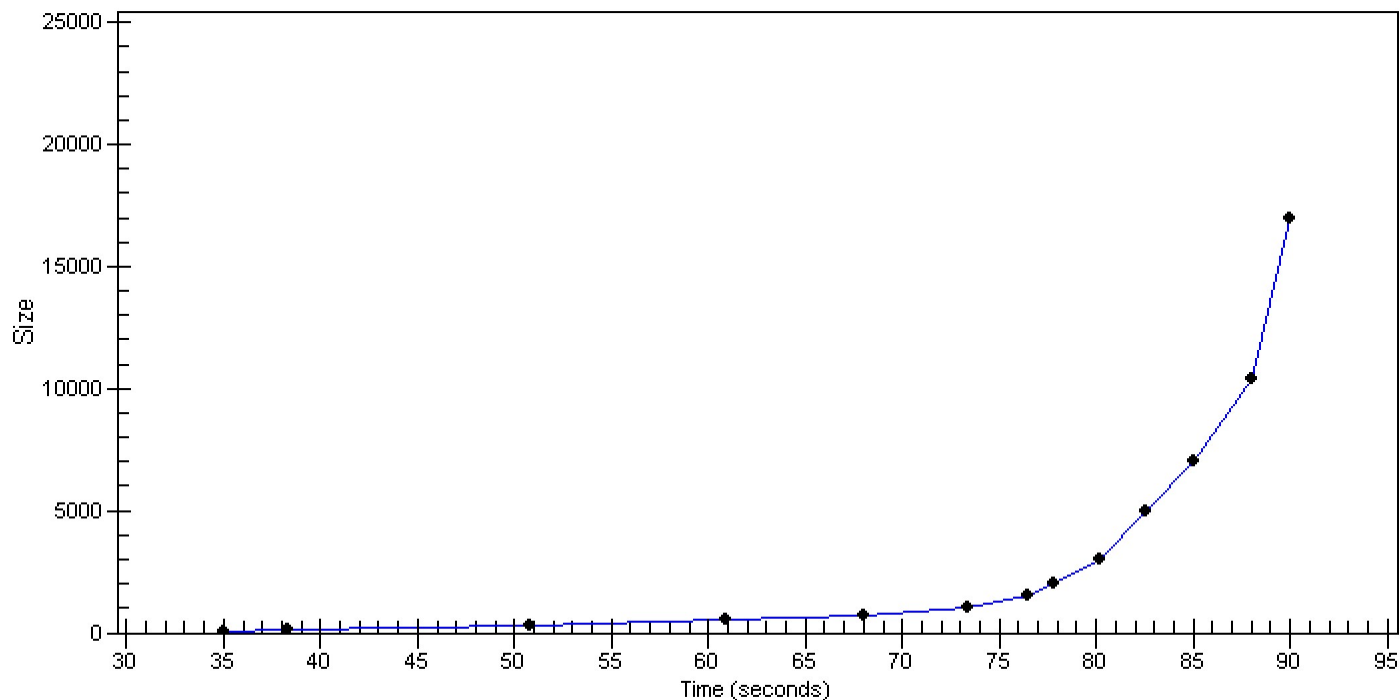


Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Curves

Standard Curve



Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad

Created: 4/6/2016 1:34:31 PM
Modified: 4/6/2016 1:58:54 PM

Invalid Samples

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.

Sample 12 has not been run, no results available.

Assay Class: DNA 12000 Created: 4/6/2016 1:34:31 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad Modified: 4/6/2016 1:58:54 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|---------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 8) | | Instrument | Run | | 4/6/2016 1:58:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-06\2016-04-06_002.xad) | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/6/2016 1:34:36 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |