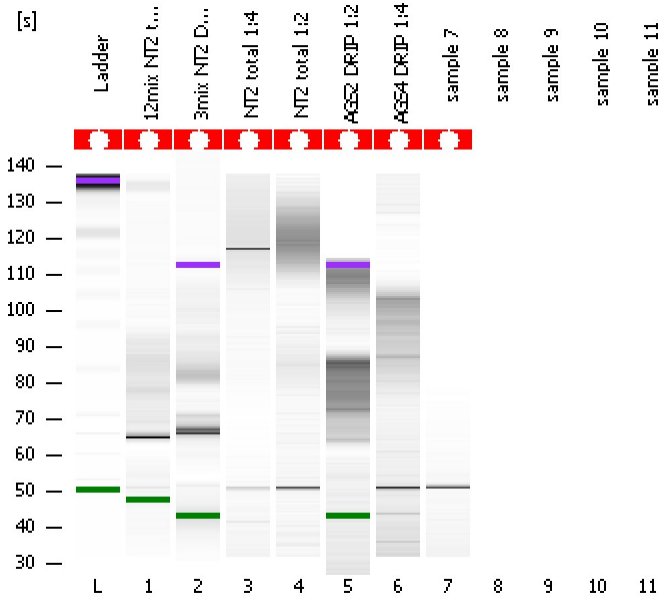


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

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

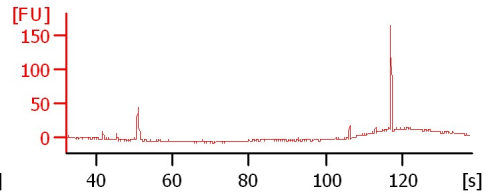
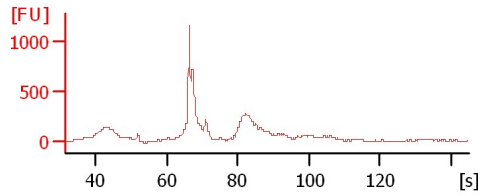
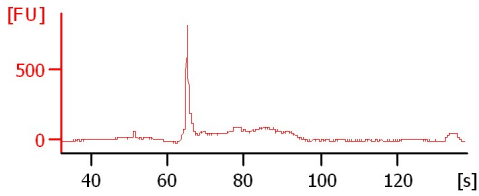
Chip Information:

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

12mix NT2 total

3mix NT2 DRIP

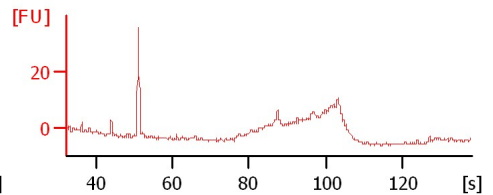
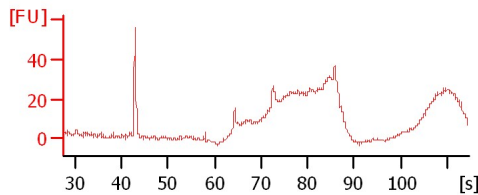
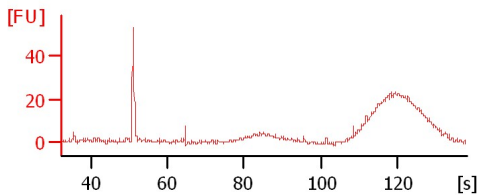
NT2 total 1:4



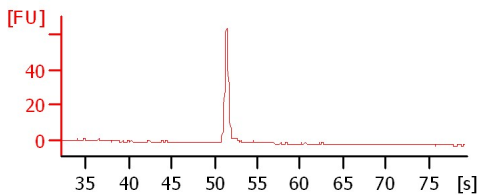
NT2 total 1:2

AGS2 DRIP 1:2

AGS4 DRIP 1:4



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-----------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 12mix NT2 total | | <input type="checkbox"/> | ✓ | | | |
| 3mix NT2 DRIP | | <input type="checkbox"/> | ✓ | | | |
| NT2 total 1:4 | | <input type="checkbox"/> | ✓ | | | |
| NT2 total 1:2 | | <input type="checkbox"/> | ✓ | | | |
| AGS2 DRIP 1:2 | | <input type="checkbox"/> | ✓ | | | |
| AGS4 DRIP 1:4 | | <input type="checkbox"/> | ✓ | | | |
| sample 7 | | <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: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 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

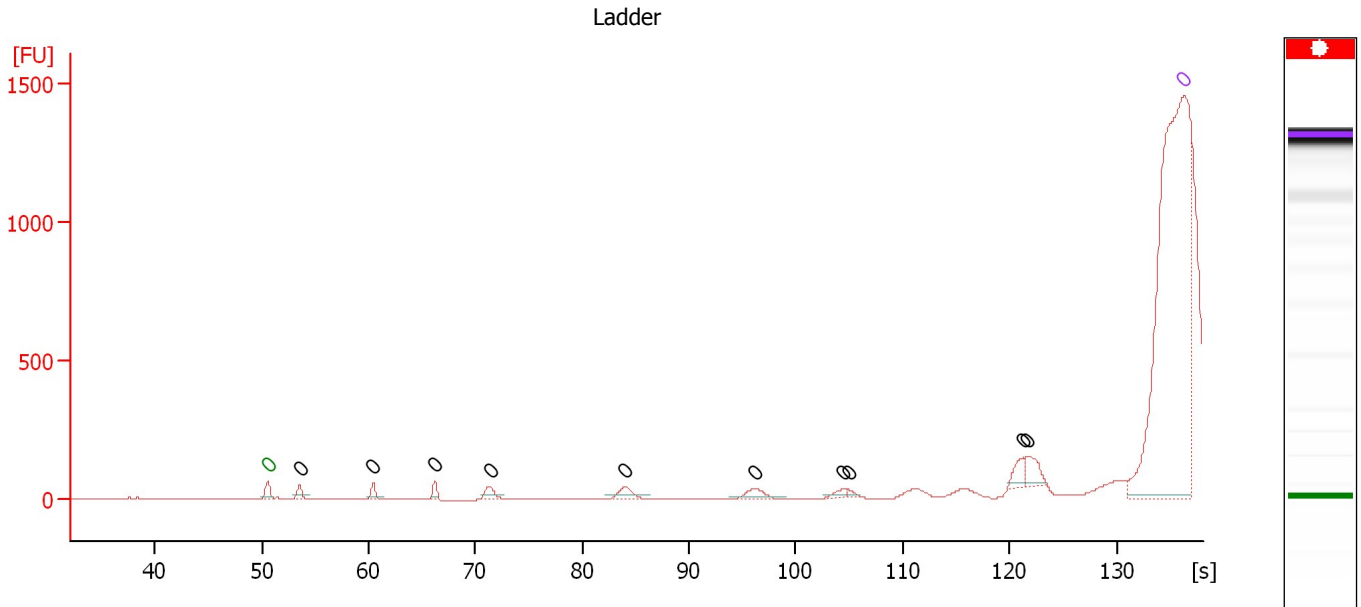
Ladder

| 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: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

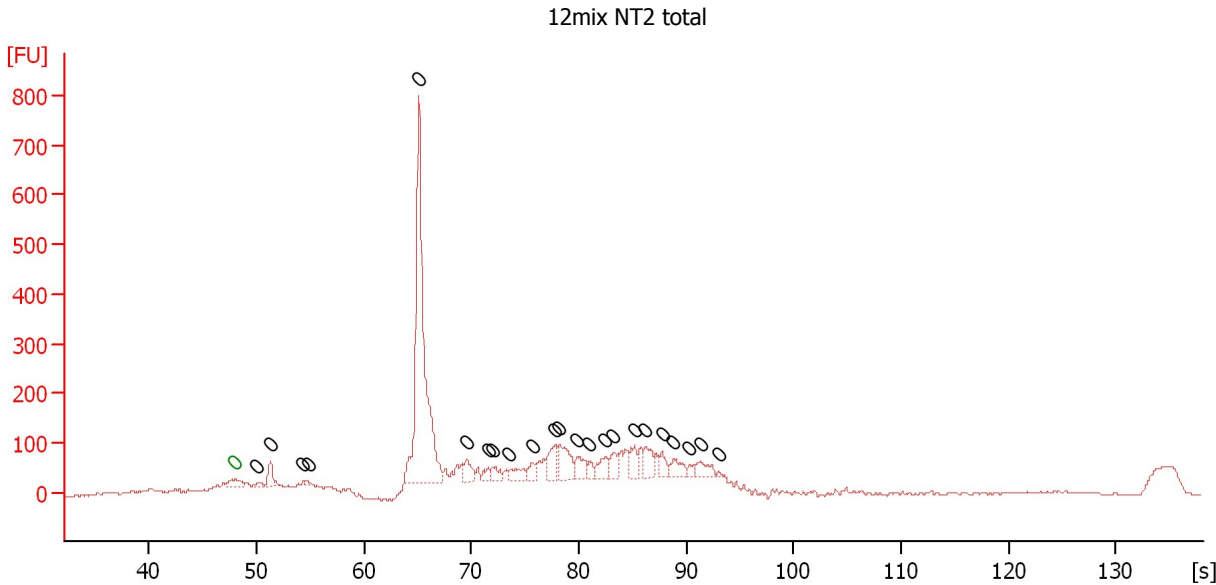
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |
| 2 | 0 | 0.00 | 0.0 | Ladder Peak |
| 3 | 0 | 0.00 | 0.0 | Ladder Peak |
| 4 | 0 | 0.00 | 0.0 | Ladder Peak |
| 5 | 0 | 0.00 | 0.0 | Ladder Peak |
| 6 | 0 | 0.00 | 0.0 | Ladder Peak |
| 7 | 0 | 0.00 | 0.0 | Ladder Peak |
| 8 | 0 | 0.00 | 0.0 | Ladder Peak |
| 9 | 0 | 0.00 | 0.0 | Ladder Peak |
| 10 | 0 | 0.00 | 0.0 | Ladder Peak |
| 11 | 0 | 0.00 | 0.0 | Ladder Peak |
| 12 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : 12mix NT2 total

Height Threshold [FU] : 0.5

Overall Results for sample 1 : 12mix NT2 total

Number of peaks found: 23 Noise: 1.4

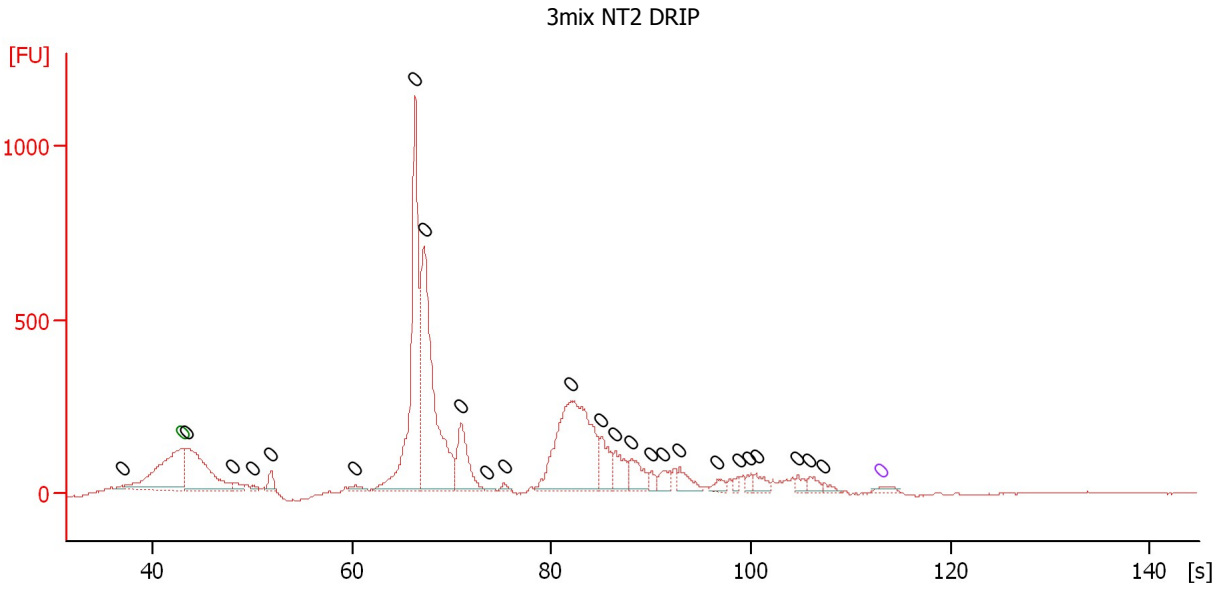
Peak table for sample 1 : 12mix NT2 total

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |
| 9 | 0 | 0.00 | 0.0 | |
| 10 | 0 | 0.00 | 0.0 | |
| 11 | 0 | 0.00 | 0.0 | |
| 12 | 0 | 0.00 | 0.0 | |
| 13 | 0 | 0.00 | 0.0 | |
| 14 | 0 | 0.00 | 0.0 | |
| 15 | 0 | 0.00 | 0.0 | |
| 16 | 0 | 0.00 | 0.0 | |
| 17 | 0 | 0.00 | 0.0 | |
| 18 | 0 | 0.00 | 0.0 | |
| 19 | 0 | 0.00 | 0.0 | |
| 20 | 0 | 0.00 | 0.0 | |
| 21 | 0 | 0.00 | 0.0 | |
| 22 | 0 | 0.00 | 0.0 | |
| 23 | 0 | 0.00 | 0.0 | |
| 24 | 0 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 3mix NT2 DRIP

Number of peaks found: 25 Noise: 1.5

Peak table for sample 2 : 3mix NT2 DRIP

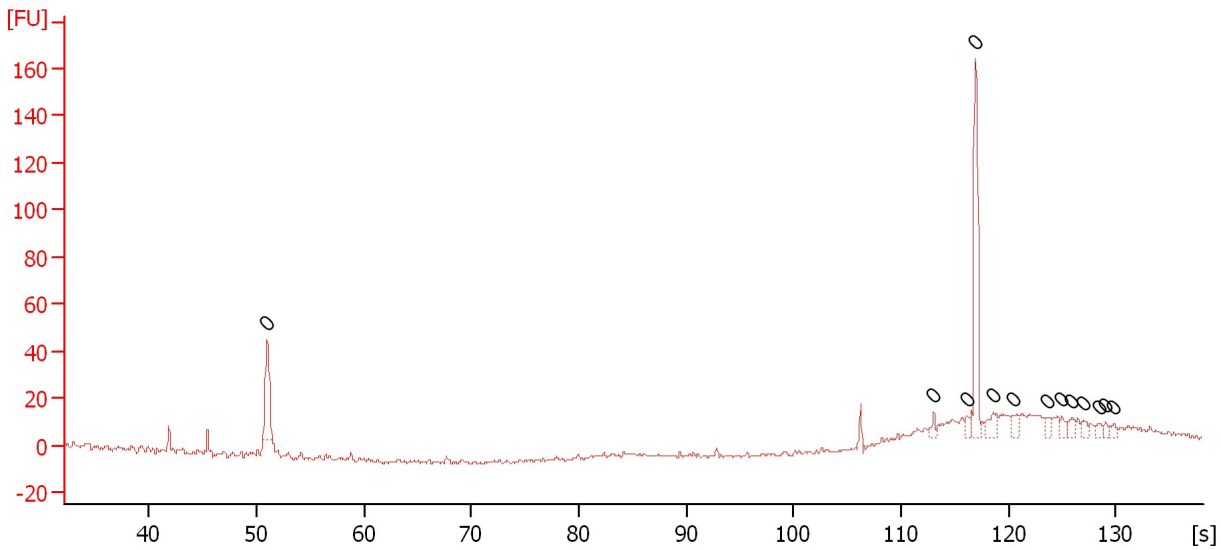
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | Lower Marker |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |
| 9 | 0 | 0.00 | 0.0 | |
| 10 | 0 | 0.00 | 0.0 | |
| 11 | 0 | 0.00 | 0.0 | |
| 12 | 0 | 0.00 | 0.0 | |
| 13 | 0 | 0.00 | 0.0 | |
| 14 | 0 | 0.00 | 0.0 | |
| 15 | 0 | 0.00 | 0.0 | |
| 16 | 0 | 0.00 | 0.0 | |
| 17 | 0 | 0.00 | 0.0 | |
| 18 | 0 | 0.00 | 0.0 | |
| 19 | 0 | 0.00 | 0.0 | |
| 20 | 0 | 0.00 | 0.0 | |
| 21 | 0 | 0.00 | 0.0 | |
| 22 | 0 | 0.00 | 0.0 | |
| 23 | 0 | 0.00 | 0.0 | |
| 24 | 0 | 0.00 | 0.0 | |
| 25 | 0 | 0.00 | 0.0 | |
| 26 | 0 | 0.00 | 0.0 | |
| 27 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...

NT2 total 1:4



Overall Results for sample 3 : NT2 total 1:4

Number of peaks found: 0 Noise: 0.6

Peak table for sample 3 : NT2 total 1:4

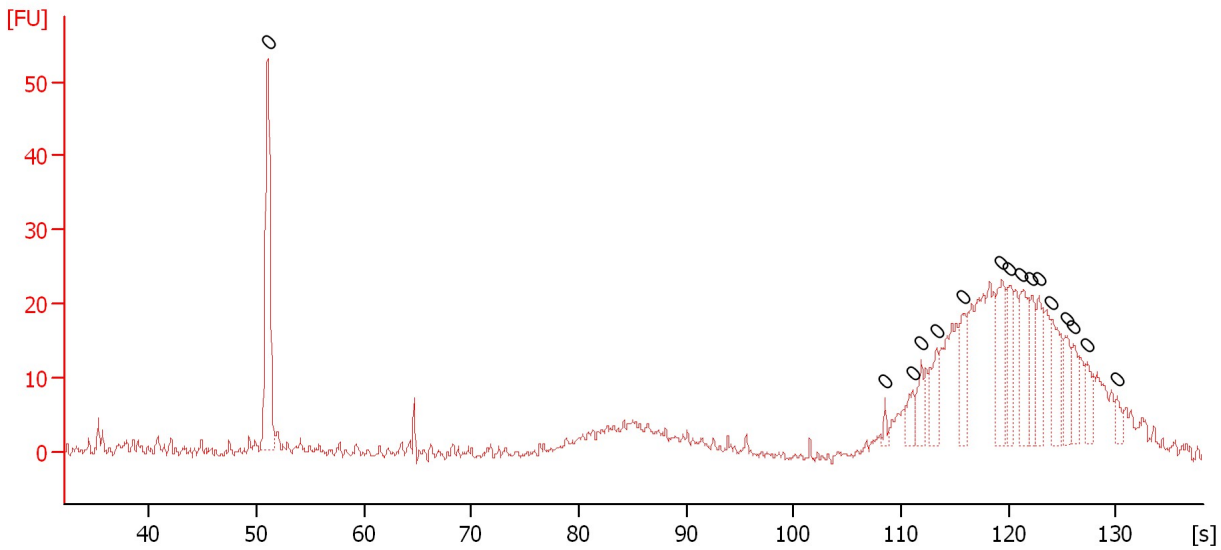
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |
| 9 | 0 | 0.00 | 0.0 | |
| 10 | 0 | 0.00 | 0.0 | |
| 11 | 0 | 0.00 | 0.0 | |
| 12 | 0 | 0.00 | 0.0 | |
| 13 | 0 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...

NT2 total 1:2



Overall Results for sample 4 : NT2 total 1:2

Number of peaks found: 0 Noise: 0.8

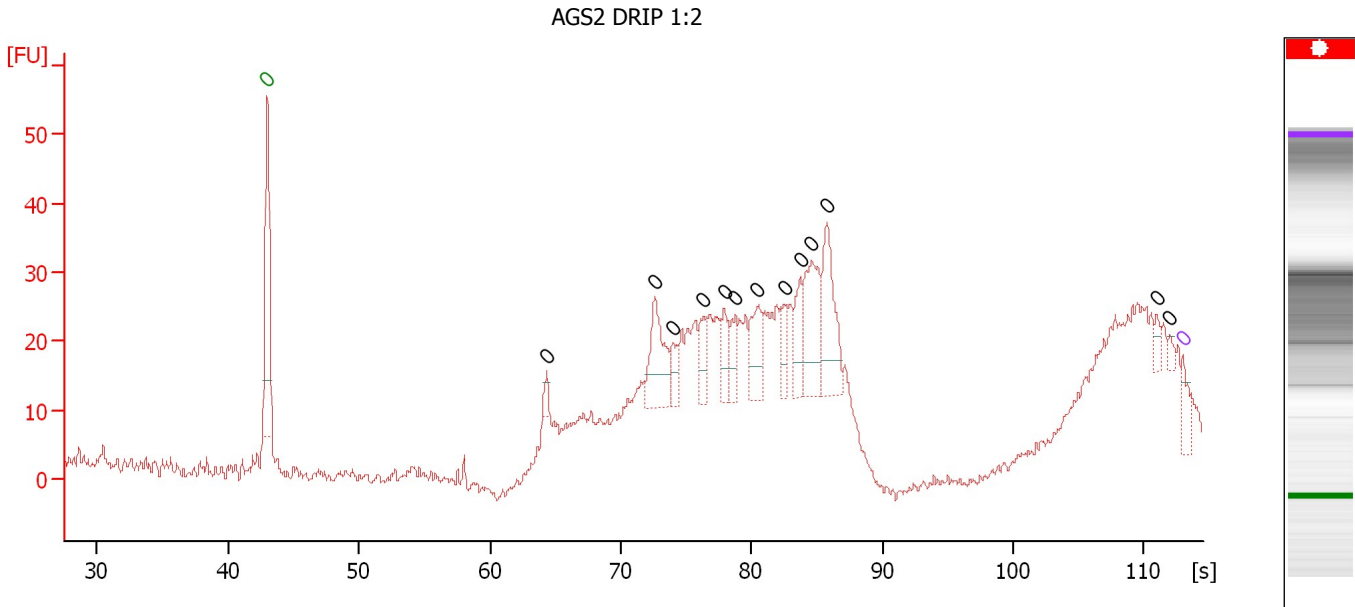
Peak table for sample 4 : NT2 total 1:2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |
| 9 | 0 | 0.00 | 0.0 | |
| 10 | 0 | 0.00 | 0.0 | |
| 11 | 0 | 0.00 | 0.0 | |
| 12 | 0 | 0.00 | 0.0 | |
| 13 | 0 | 0.00 | 0.0 | |
| 14 | 0 | 0.00 | 0.0 | |
| 15 | 0 | 0.00 | 0.0 | |
| 16 | 0 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AGS2 DRIP 1:2

Number of peaks found: 13 Noise: 1.0

Peak table for sample 5 : AGS2 DRIP 1:2

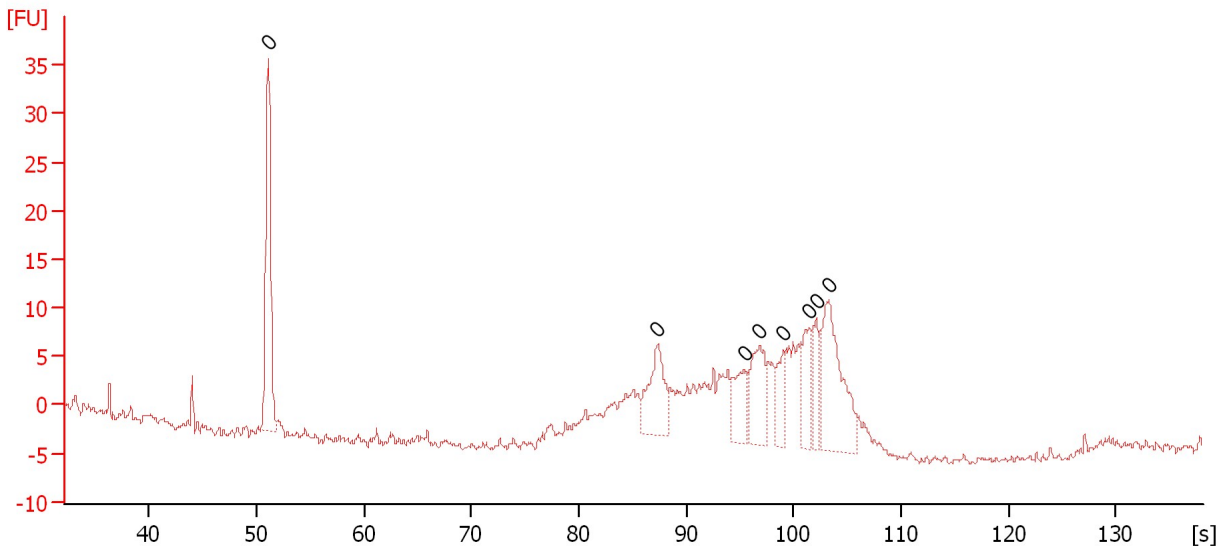
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |
| 9 | 0 | 0.00 | 0.0 | |
| 10 | 0 | 0.00 | 0.0 | |
| 11 | 0 | 0.00 | 0.0 | |
| 12 | 0 | 0.00 | 0.0 | |
| 13 | 0 | 0.00 | 0.0 | |
| 14 | 0 | 0.00 | 0.0 | |
| 15 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...

AGS4 DRIP 1:4



Overall Results for sample 6 : AGS4 DRIP 1:4

Number of peaks found: 0 Noise: 0.4

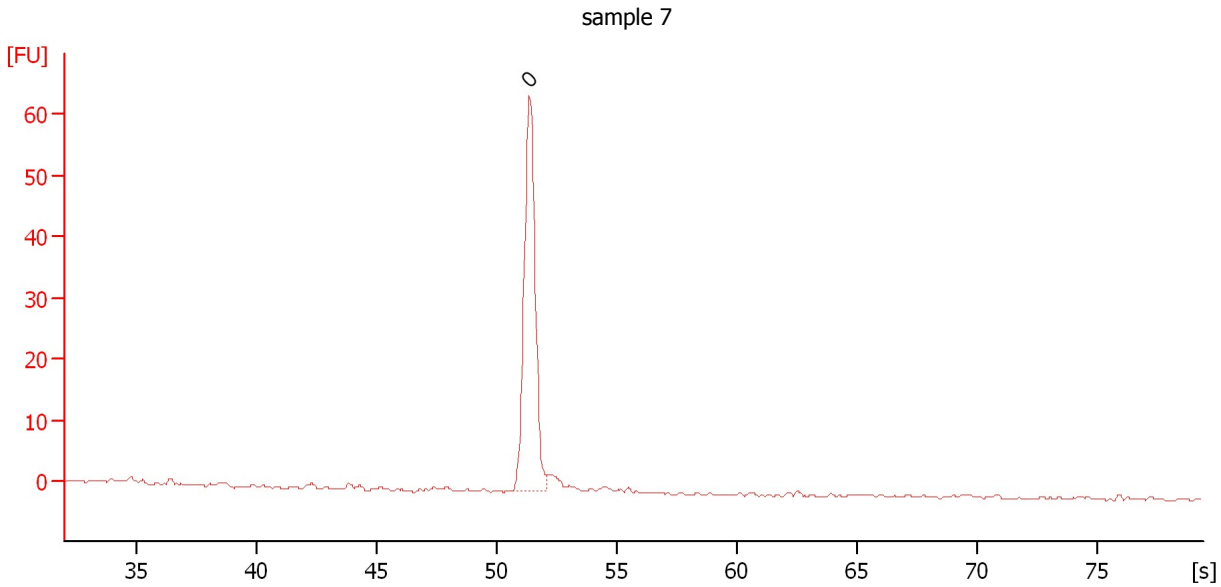
Peak table for sample 6 : AGS4 DRIP 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | |
| 7 | 0 | 0.00 | 0.0 | |
| 8 | 0 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : sample 7

End Analysis Time Range [s] : 79.4

Overall Results for sample 7 : sample 7

Number of peaks found: 0 Noise: 0.3

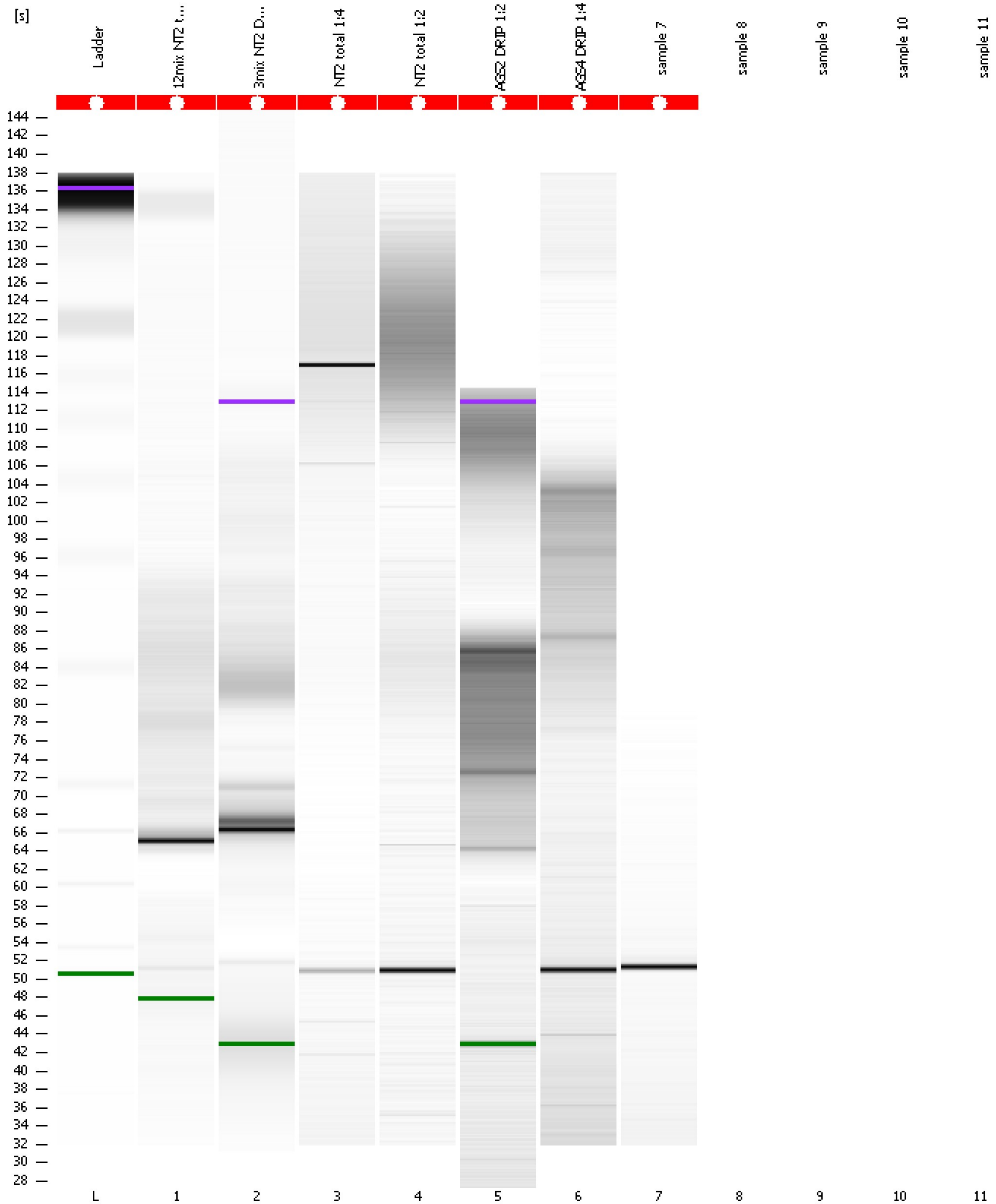
Peak table for sample 7 : sample 7

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
Modified: 3/9/2012 11:43:59 AM

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad

Created: 3/9/2012 11:15:02 AM
 Modified: 3/9/2012 11:43:59 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-------------------------|---|----------|----------|
| Run aborted on port 1 | | Instrument | Run | | 3/9/2012 11:43:57 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-09\2012-03-09_003.xad) | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/9/2012 11:15:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |