

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
Modified: 7/28/2014 2:45:47 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

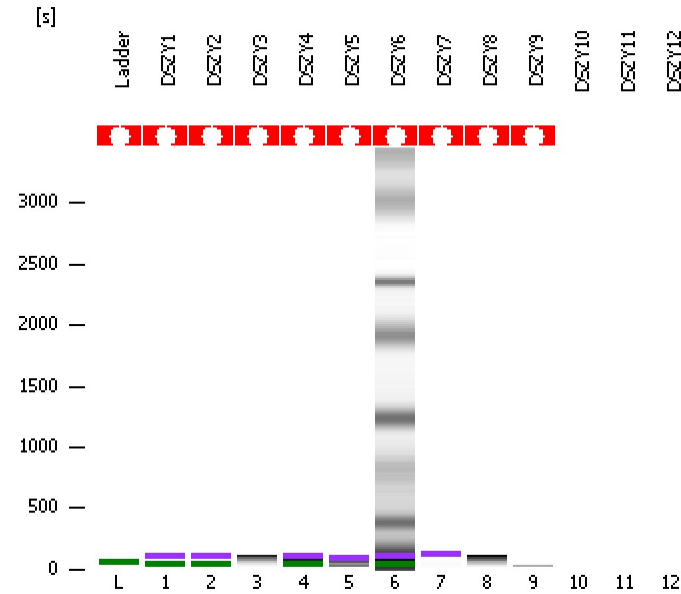
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

Assay Class: DNA 1000
Version: 2.3
Assay Comments: DNA Analysis 25 -1000 bp

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Chip Information:

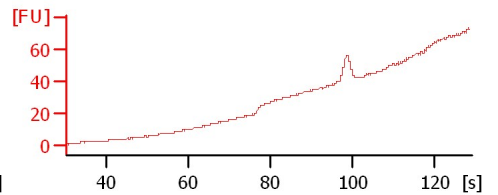
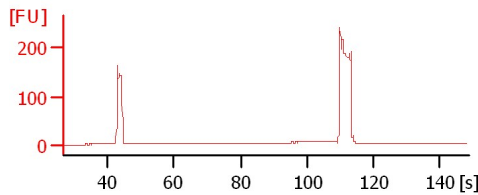
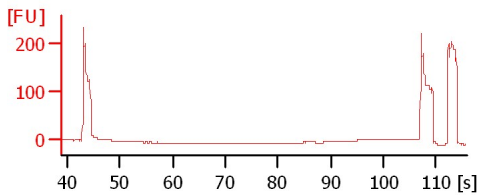
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



DSZY1

DSZY2

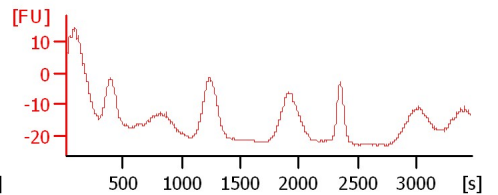
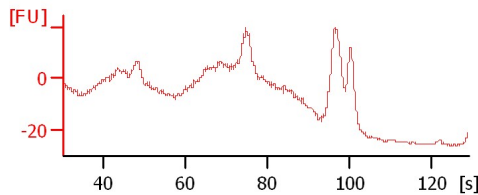
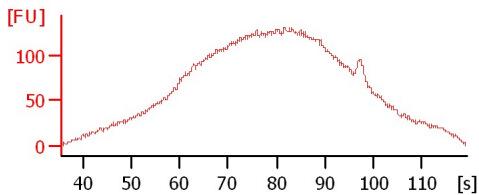
DSZY3



DSZY4

DSZY5

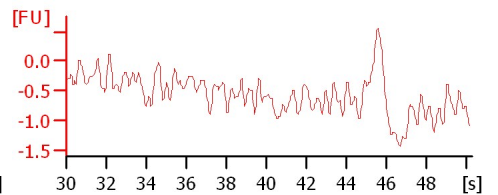
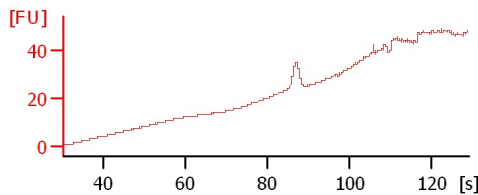
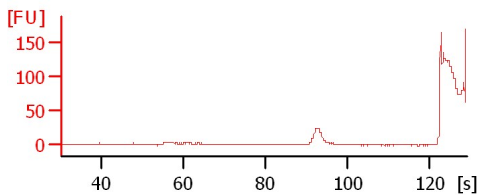
DSZY6



DSZY7

DSZY8

DSZY9



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| DSZY1 | | <input type="checkbox"/> | ✓ | | | |
| DSZY2 | | <input type="checkbox"/> | ✓ | | | |
| DSZY3 | | <input type="checkbox"/> | ✓ | | | |
| DSZY4 | | <input type="checkbox"/> | ✓ | | | |
| DSZY5 | | <input type="checkbox"/> | ✓ | | | |
| DSZY6 | | <input type="checkbox"/> | ✓ | | | |
| DSZY7 | | <input type="checkbox"/> | ✓ | | | |
| DSZY8 | | <input type="checkbox"/> | ✓ | | | |
| DSZY9 | | <input type="checkbox"/> | ✗ | | | |
| DSZY10 | | <input type="checkbox"/> | ✗ | | | |
| DSZY11 | | <input type="checkbox"/> | ✗ | | | |
| DSZY12 | | <input type="checkbox"/> | ✗ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Created: 7/28/2014 2:13:02 PM
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Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 30
Maximum Visible Range [s] : 129
Start Analysis Time Range [s] : 30
End Analysis Time Range [s] : 128.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 4.2
Upper Marker Concentration [ng/μl] : 2.1
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] : 30
Integration End Time [s] : 128.95
Slope Threshold : 0.5
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

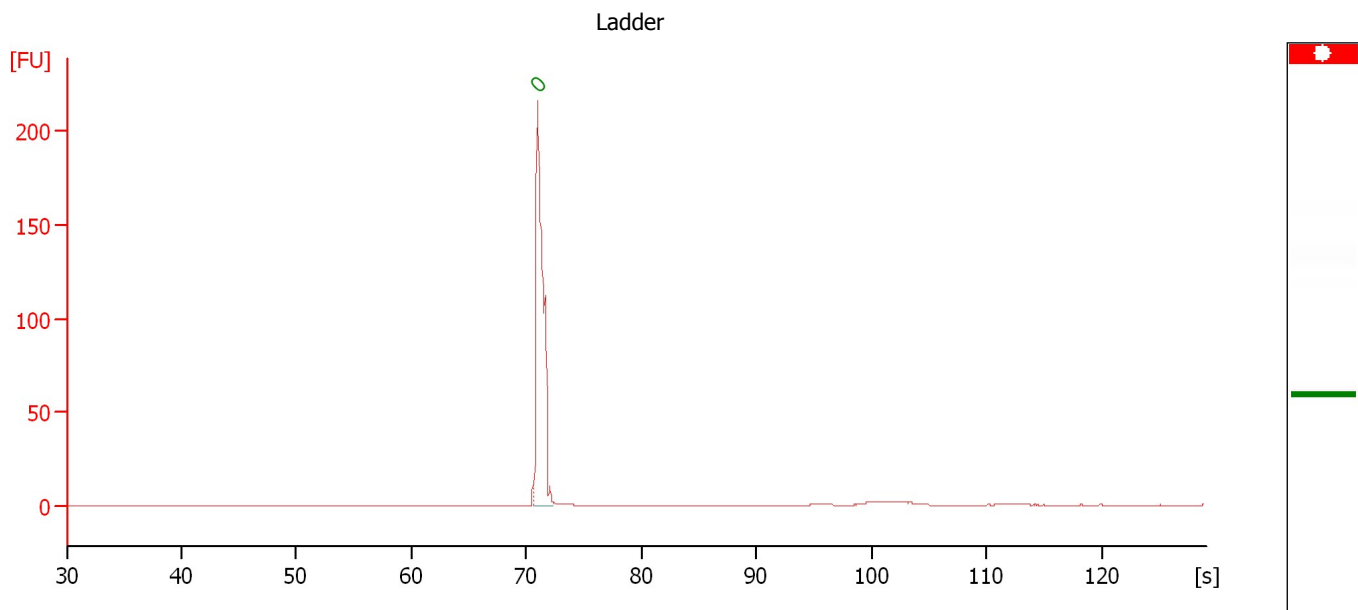
Ladder

| Ladder Peak | Size | Area |
|-------------|------|------|
| 1 | 15 | 25 |
| 2 | 25 | 26 |
| 3 | 50 | 34 |
| 4 | 100 | 41 |
| 5 | 150 | 45 |
| 6 | 200 | 52 |
| 7 | 300 | 63 |
| 8 | 400 | 76 |
| 9 | 500 | 83 |
| 10 | 700 | 88 |
| 11 | 850 | 86 |
| 12 | 1000 | 90 |
| 13 | 1500 | 52 |

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Electropherogram Summary



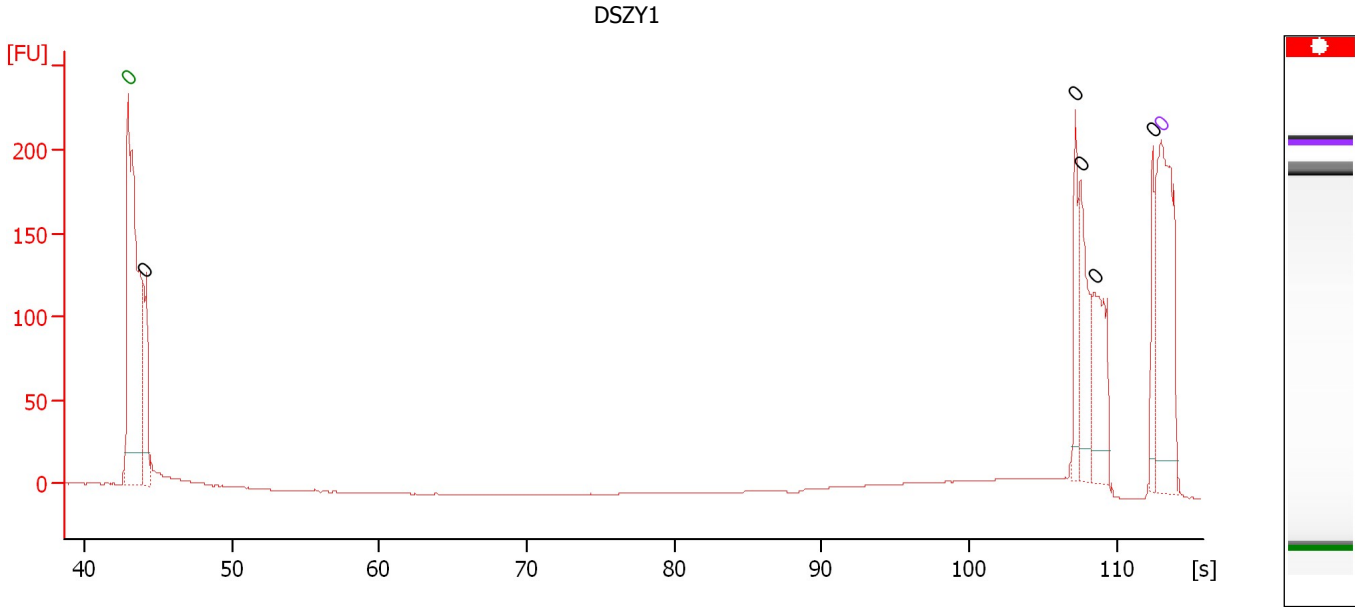
Peak table for Ladder

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |

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Electropherogram Summary Continued ...



Overall Results for sample 1 : DSZY1

Number of peaks found: 5

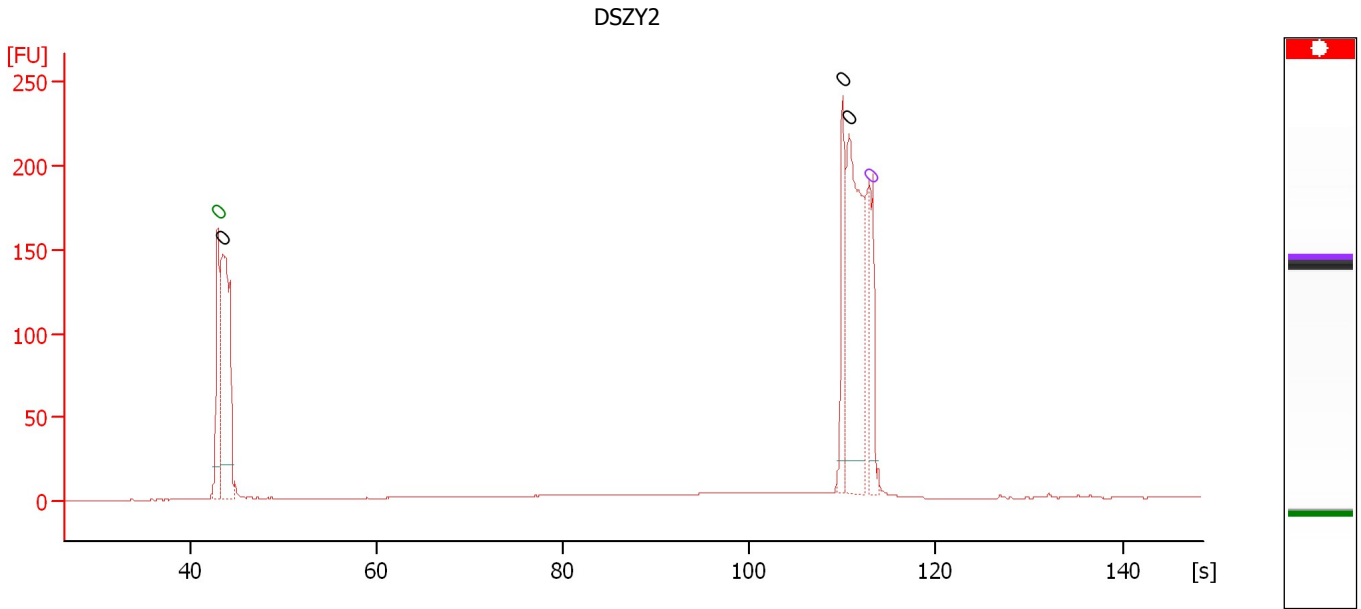
Peak table for sample 1 : DSZY1

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/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 | Upper Marker |

Assay Class: DNA 1000
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Electropherogram Summary Continued ...



Overall Results for sample 2 : DSZY2

Number of peaks found: 3

Peak table for sample 2 : DSZY2

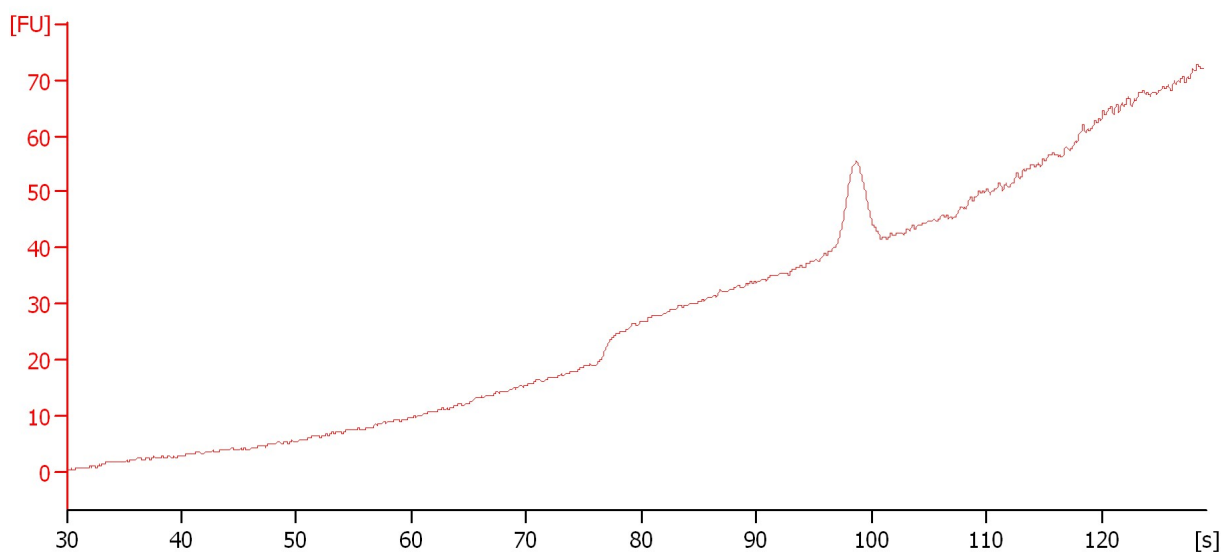
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
Modified: 7/28/2014 2:45:47 PM

Electropherogram Summary Continued ...

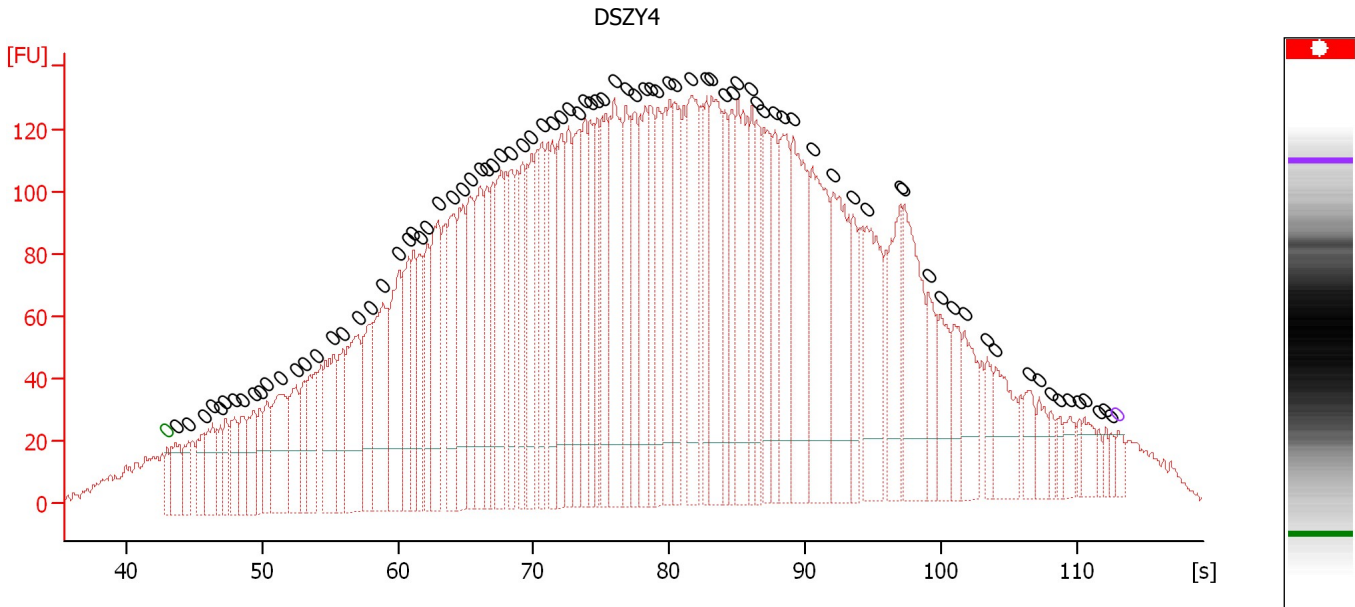
DSZY3



Assay Class: DNA 1000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
 Modified: 7/28/2014 2:45:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DSZY4

Number of peaks found: 87

Peak table for sample 4 : DSZY4

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/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 | |
| 25 | 0 | 0.00 | 0.0 | |
| 26 | 0 | 0.00 | 0.0 | |
| 27 | 0 | 0.00 | 0.0 | |

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

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Electropherogram Summary Continued ...

... Peak table for sample 4 : DSZY4

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 28 | 0 | 0.00 | 0.0 | |
| 29 | 0 | 0.00 | 0.0 | |
| 30 | 0 | 0.00 | 0.0 | |
| 31 | 0 | 0.00 | 0.0 | |
| 32 | 0 | 0.00 | 0.0 | |
| 33 | 0 | 0.00 | 0.0 | |
| 34 | 0 | 0.00 | 0.0 | |
| 35 | 0 | 0.00 | 0.0 | |
| 36 | 0 | 0.00 | 0.0 | |
| 37 | 0 | 0.00 | 0.0 | |
| 38 | 0 | 0.00 | 0.0 | |
| 39 | 0 | 0.00 | 0.0 | |
| 40 | 0 | 0.00 | 0.0 | |
| 41 | 0 | 0.00 | 0.0 | |
| 42 | 0 | 0.00 | 0.0 | |
| 43 | 0 | 0.00 | 0.0 | |
| 44 | 0 | 0.00 | 0.0 | |
| 45 | 0 | 0.00 | 0.0 | |
| 46 | 0 | 0.00 | 0.0 | |
| 47 | 0 | 0.00 | 0.0 | |
| 48 | 0 | 0.00 | 0.0 | |
| 49 | 0 | 0.00 | 0.0 | |
| 50 | 0 | 0.00 | 0.0 | |
| 51 | 0 | 0.00 | 0.0 | |
| 52 | 0 | 0.00 | 0.0 | |
| 53 | 0 | 0.00 | 0.0 | |
| 54 | 0 | 0.00 | 0.0 | |
| 55 | 0 | 0.00 | 0.0 | |
| 56 | 0 | 0.00 | 0.0 | |
| 57 | 0 | 0.00 | 0.0 | |
| 58 | 0 | 0.00 | 0.0 | |
| 59 | 0 | 0.00 | 0.0 | |
| 60 | 0 | 0.00 | 0.0 | |
| 61 | 0 | 0.00 | 0.0 | |
| 62 | 0 | 0.00 | 0.0 | |
| 63 | 0 | 0.00 | 0.0 | |
| 64 | 0 | 0.00 | 0.0 | |
| 65 | 0 | 0.00 | 0.0 | |
| 66 | 0 | 0.00 | 0.0 | |
| 67 | 0 | 0.00 | 0.0 | |
| 68 | 0 | 0.00 | 0.0 | |
| 69 | 0 | 0.00 | 0.0 | |
| 70 | 0 | 0.00 | 0.0 | |
| 71 | 0 | 0.00 | 0.0 | |
| 72 | 0 | 0.00 | 0.0 | |
| 73 | 0 | 0.00 | 0.0 | |
| 74 | 0 | 0.00 | 0.0 | |
| 75 | 0 | 0.00 | 0.0 | |
| 76 | 0 | 0.00 | 0.0 | |
| 77 | 0 | 0.00 | 0.0 | |
| 78 | 0 | 0.00 | 0.0 | |
| 79 | 0 | 0.00 | 0.0 | |
| 80 | 0 | 0.00 | 0.0 | |

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Created: 7/28/2014 2:13:02 PM
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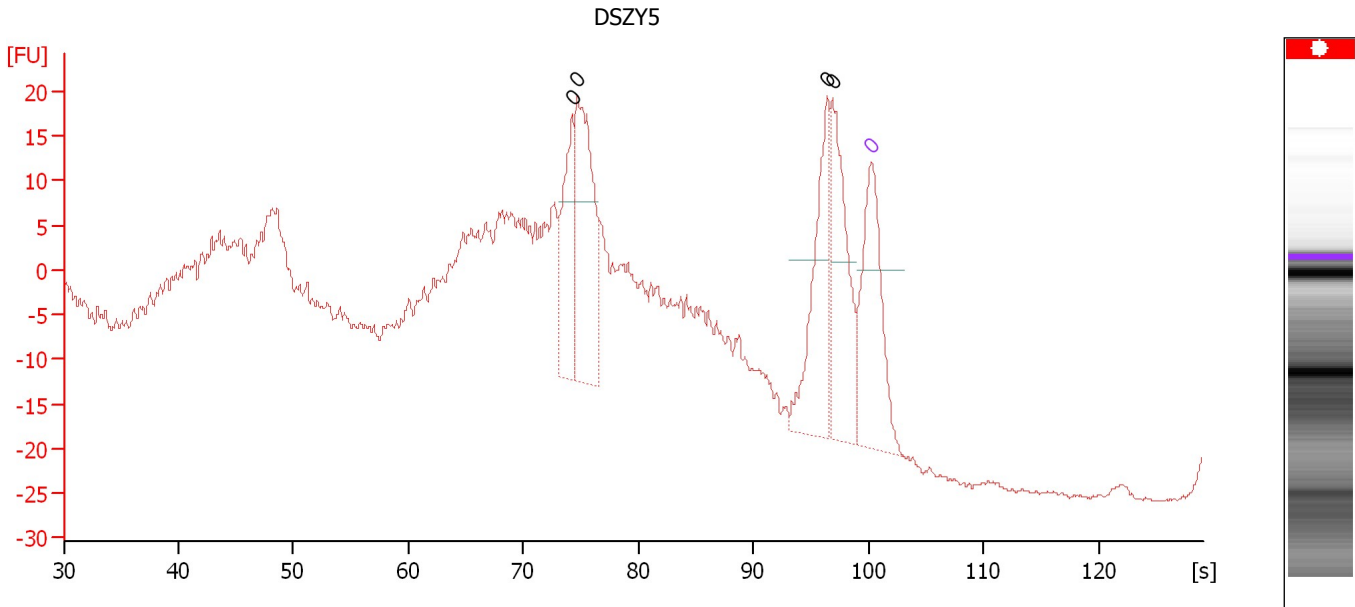
Electropherogram Summary Continued ...**... Peak table for sample 4 : DSZY4**

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 81 | 0 | 0.00 | 0.0 | |
| 82 | 0 | 0.00 | 0.0 | |
| 83 | 0 | 0.00 | 0.0 | |
| 84 | 0 | 0.00 | 0.0 | |
| 85 | 0 | 0.00 | 0.0 | |
| 86 | 0 | 0.00 | 0.0 | |
| 87 | 0 | 0.00 | 0.0 | |
| 88 | 0 | 0.00 | 0.0 | |
| 89 | ▶ 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: DNA 1000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
 Modified: 7/28/2014 2:45:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DSZY5

Number of peaks found: 4

Peak table for sample 5 : DSZY5

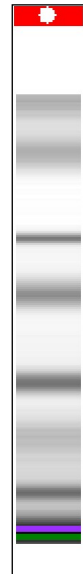
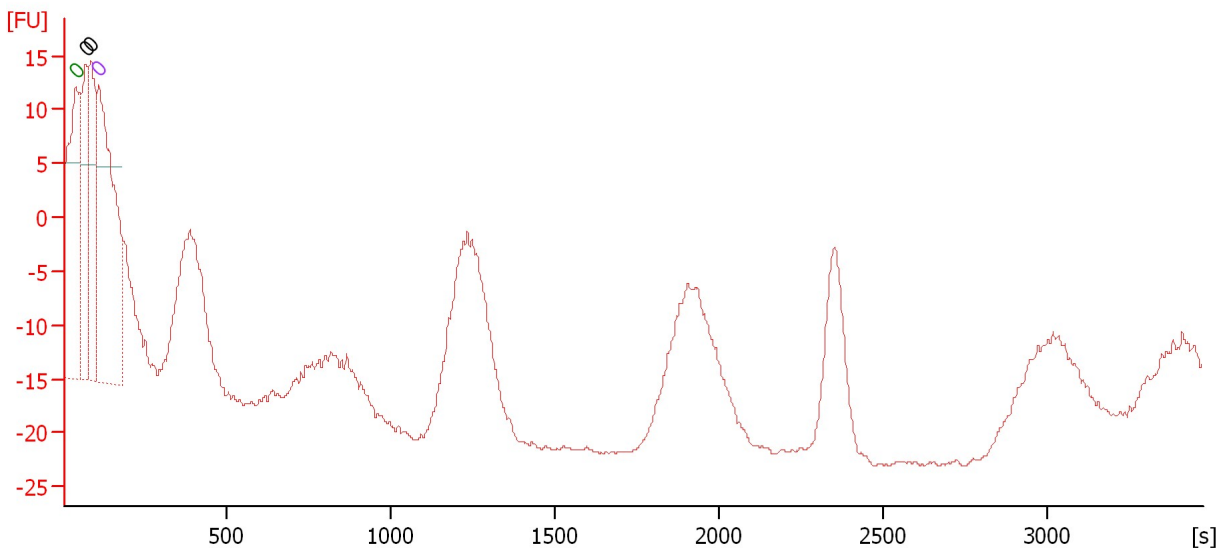
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

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Modified: 7/28/2014 2:45:47 PM

Electropherogram Summary Continued ...

DSZY6



Overall Results for sample 6 : DSZY6

Number of peaks found: 2

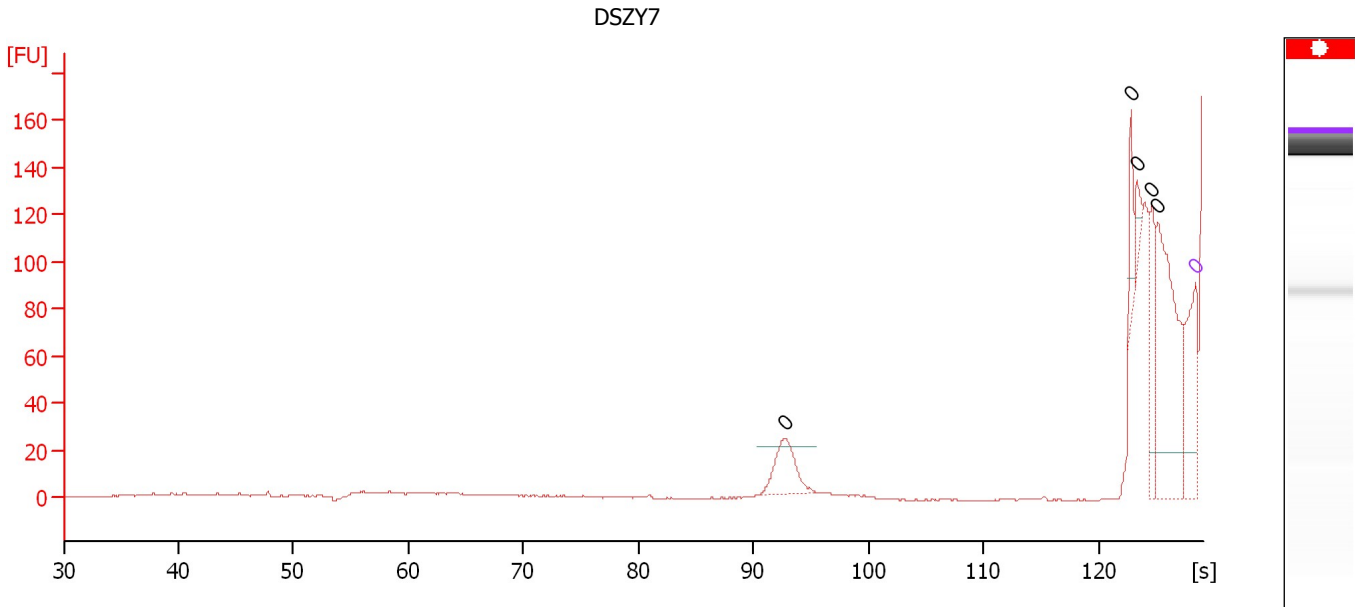
Peak table for sample 6 : DSZY6

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/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 | Upper Marker |

Assay Class: DNA 1000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : DSZY7

Number of peaks found: 5

Peak table for sample 7 : DSZY7

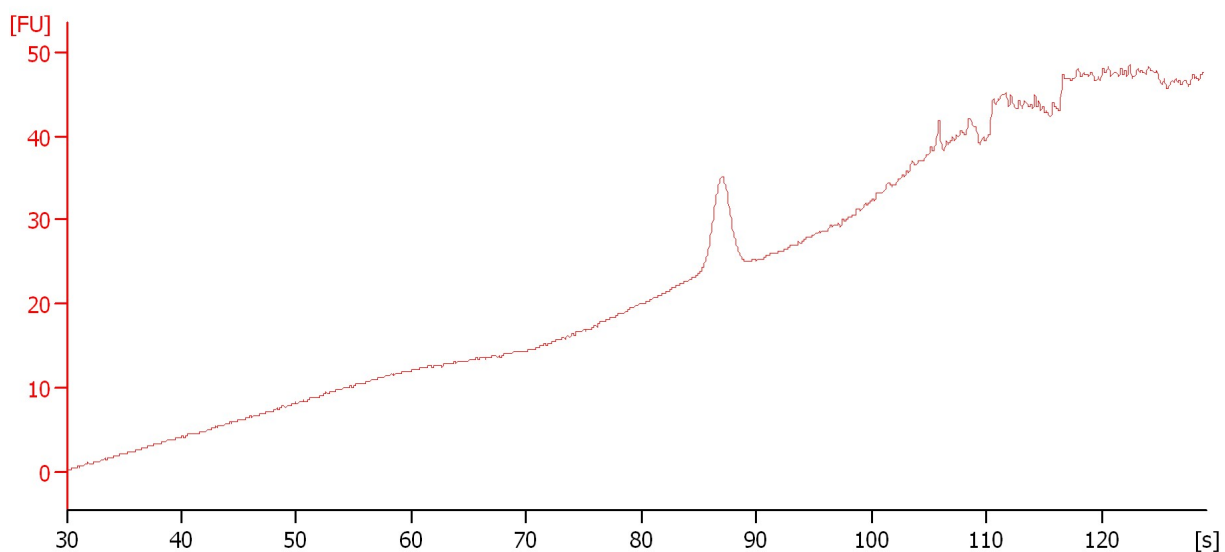
| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 0 | 0.00 | 0.0 | |
| 2 | 0 | 0.00 | 0.0 | |
| 3 | 0 | 0.00 | 0.0 | |
| 4 | 0 | 0.00 | 0.0 | |
| 5 | 0 | 0.00 | 0.0 | |
| 6 | 0 | 0.00 | 0.0 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

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Electropherogram Summary Continued ...

DSZY8

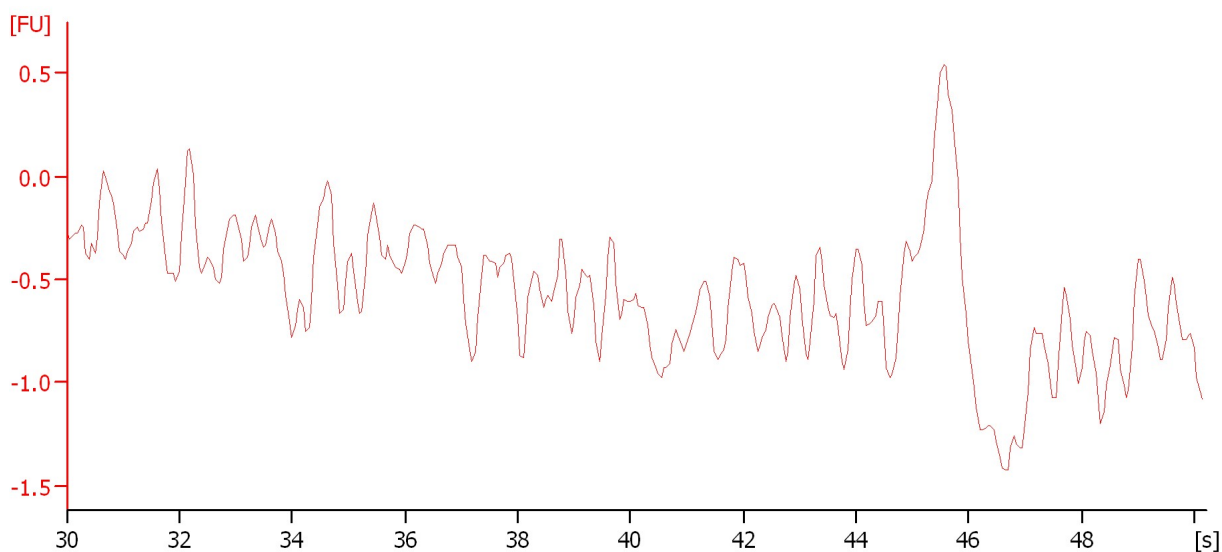


Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
Modified: 7/28/2014 2:45:47 PM

Electropherogram Summary Continued ...

DSZY9



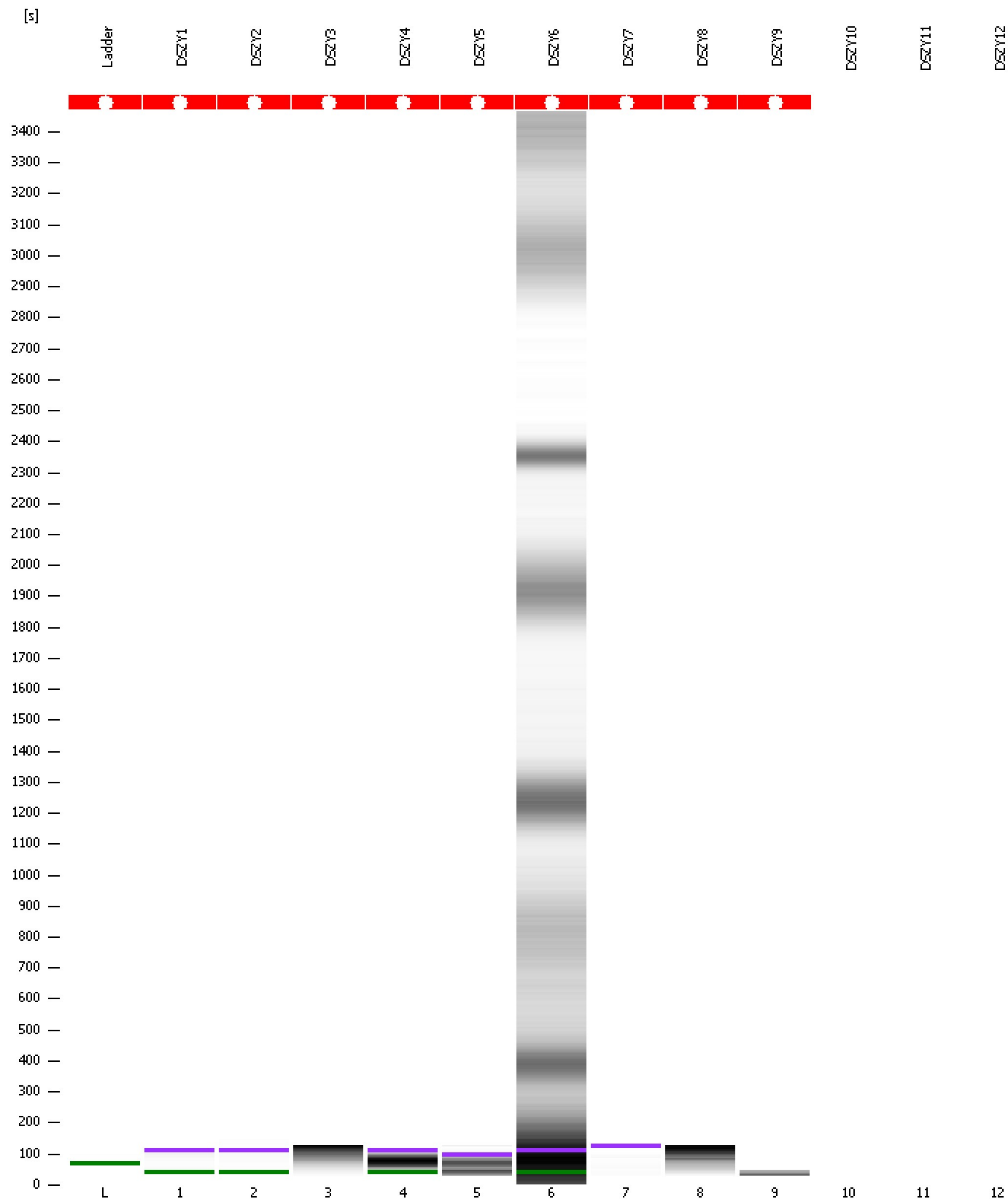
Setpoint Deviations for sample 9 : DSZY9

End Analysis Time Range [s] : 50.2

Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
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Gel Image



Assay Class: DNA 1000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
Modified: 7/28/2014 2:45:47 PM

Invalid Samples

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 1000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-28\2014-07-28_004.xad

Created: 7/28/2014 2:13:02 PM
 Modified: 7/28/2014 2:45:47 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run aborted on port 1 | | Instrument | Run | | 7/28/2014 2:45:44 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\2014-07-28\2014-07-28_004.xad) | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/28/2014 2:13:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |