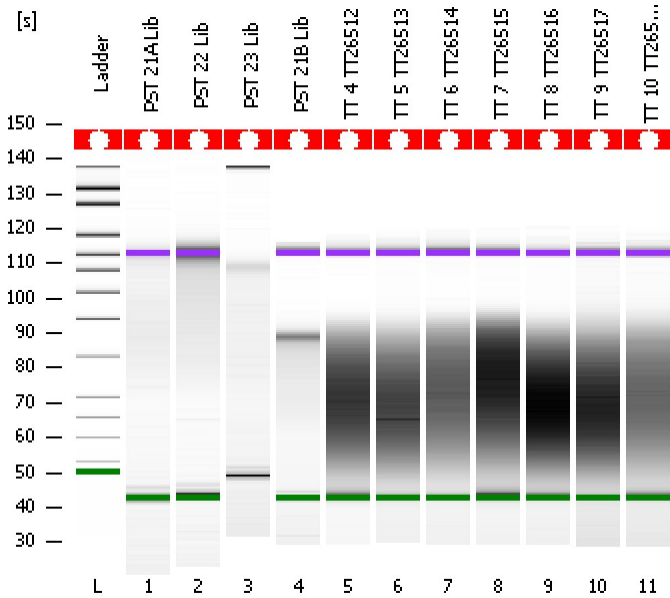


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 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

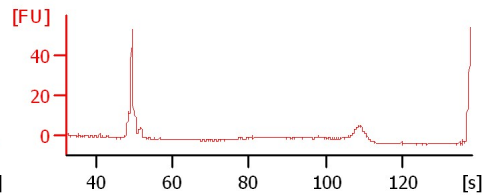
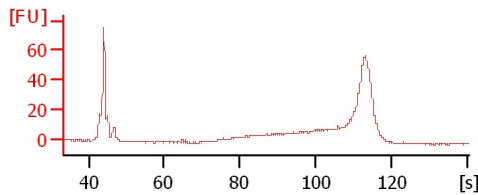
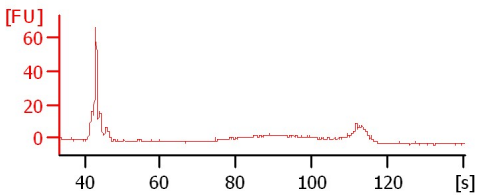
Chip Information:

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

PST 21A Lib

PST 22 Lib

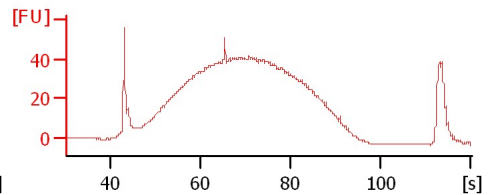
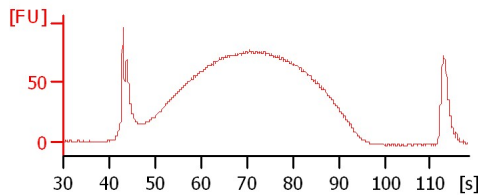
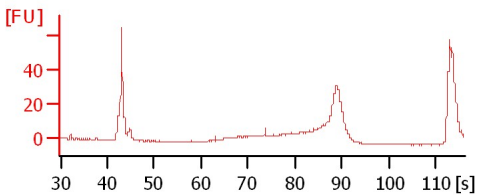
PST 23 Lib



PST 21B Lib

TT 4 TT26512

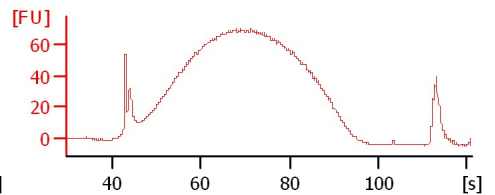
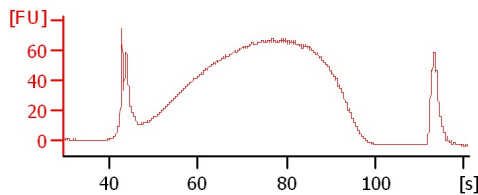
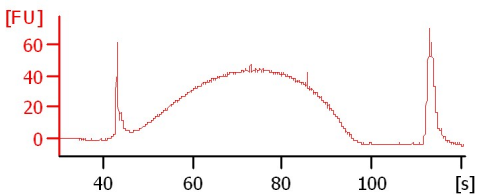
TT 5 TT26513



TT 6 TT26514

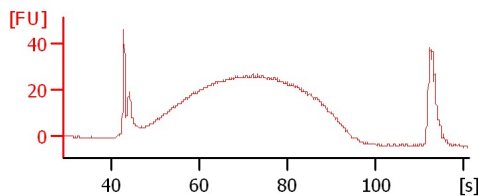
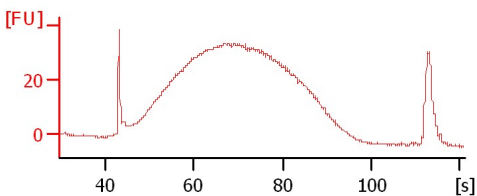
TT 7 TT26515

TT 8 TT26516



TT 9 TT26517

TT 10 TT26518



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PST 21A Lib		<input type="checkbox"/>	✓			
PST 22 Lib		<input type="checkbox"/>	✓			
PST 23 Lib		<input type="checkbox"/>	✓			
PST 21B Lib		<input type="checkbox"/>	✓			
TT 4 TT26512		<input type="checkbox"/>	✓			
TT 5 TT26513		<input type="checkbox"/>	✓			
TT 6 TT26514		<input type="checkbox"/>	✓			
TT 7 TT26515		<input type="checkbox"/>	✓			
TT 8 TT26516		<input type="checkbox"/>	✓			
TT 9 TT26517		<input type="checkbox"/>	✓			
TT 10 TT26518		<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\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 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

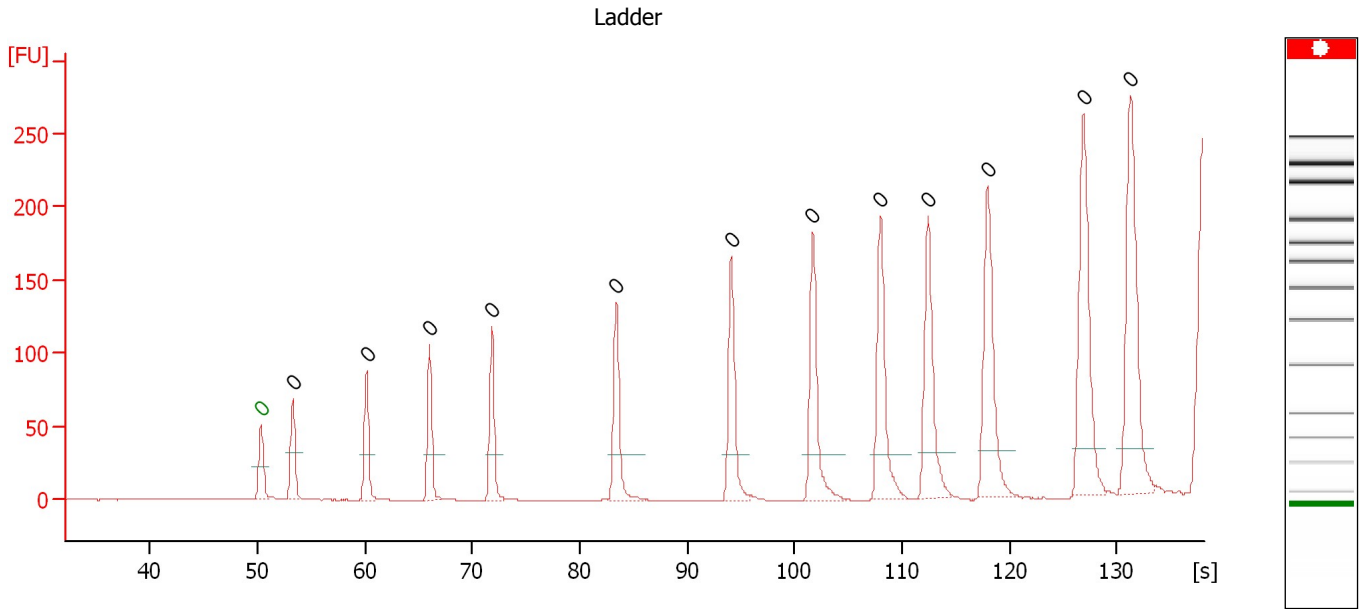
Ladder

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:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

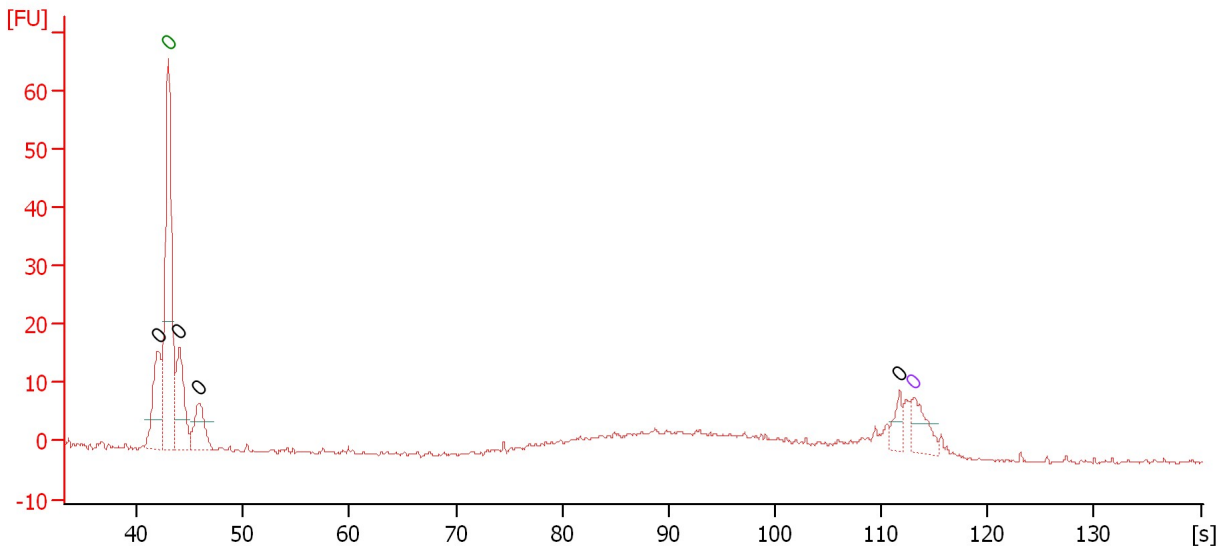
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	Ladder Peak
3	0	0.00	0.0	Ladder Peak
4	0	0.00	0.0	Ladder Peak
5	0	0.00	0.0	Ladder Peak
6	0	0.00	0.0	Ladder Peak
7	0	0.00	0.0	Ladder Peak
8	0	0.00	0.0	Ladder Peak
9	0	0.00	0.0	Ladder Peak
10	0	0.00	0.0	Ladder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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

PST 21A Lib



Overall Results for sample 1 : PST 21A Lib

Number of peaks found: 4 Noise: 0.3

Peak table for sample 1 : PST 21A Lib

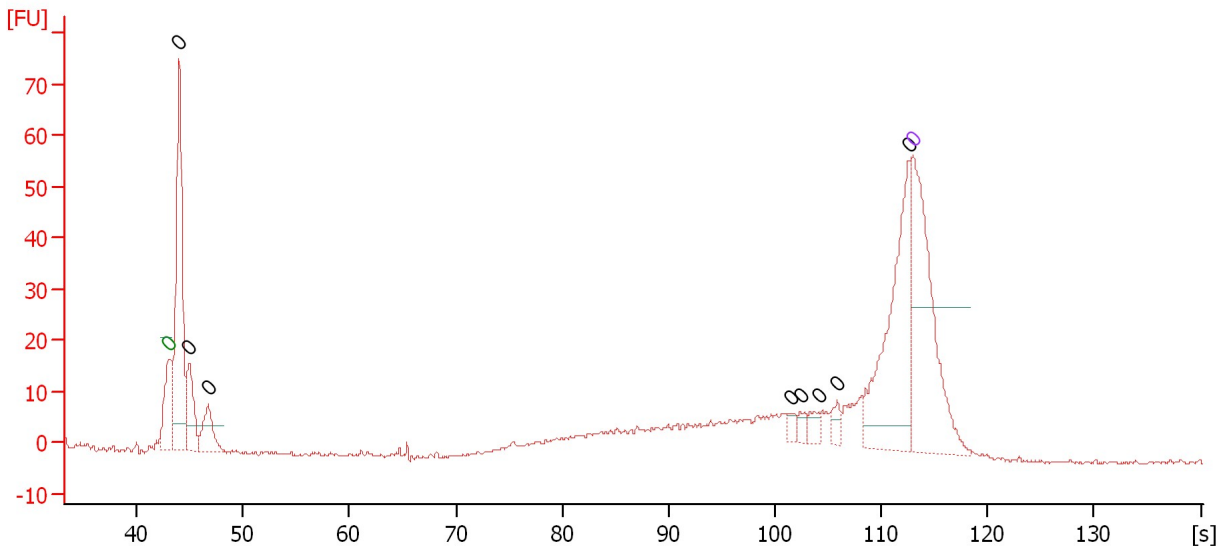
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	Lower Marker
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

PST 22 Lib



Overall Results for sample 2 : PST 22 Lib

Number of peaks found: 8 Noise: 0.3

Peak table for sample 2 : PST 22 Lib

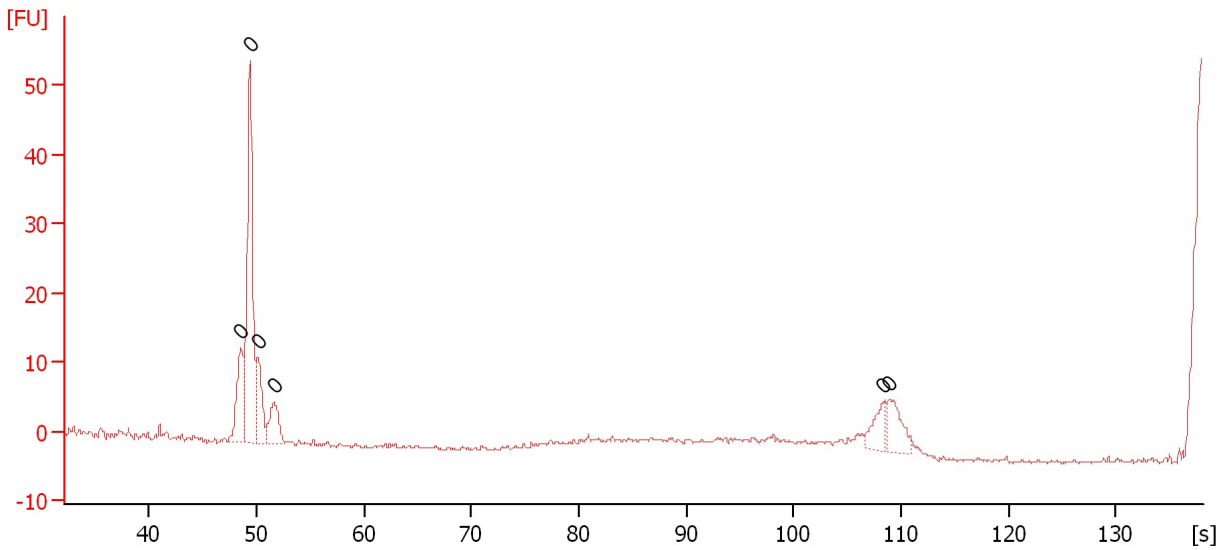
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

PST 23 Lib



Overall Results for sample 3 : PST 23 Lib

Number of peaks found: 0 Noise: 0.3

Peak table for sample 3 : PST 23 Lib

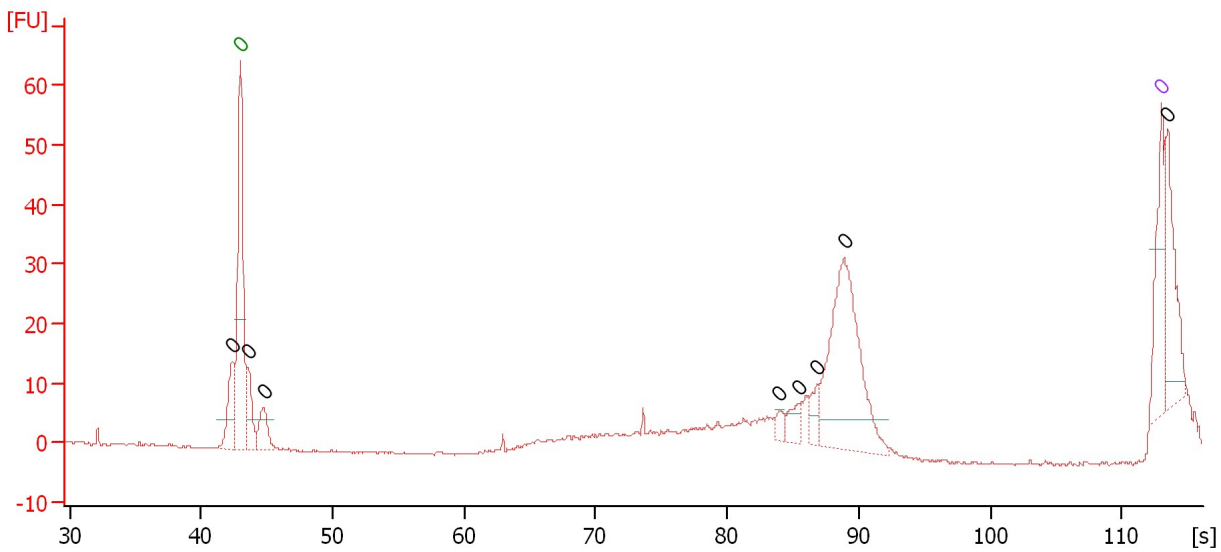
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

PST 21B Lib



Overall Results for sample 4 : PST 21B Lib

Number of peaks found: 8 Noise: 0.2

Peak table for sample 4 : PST 21B Lib

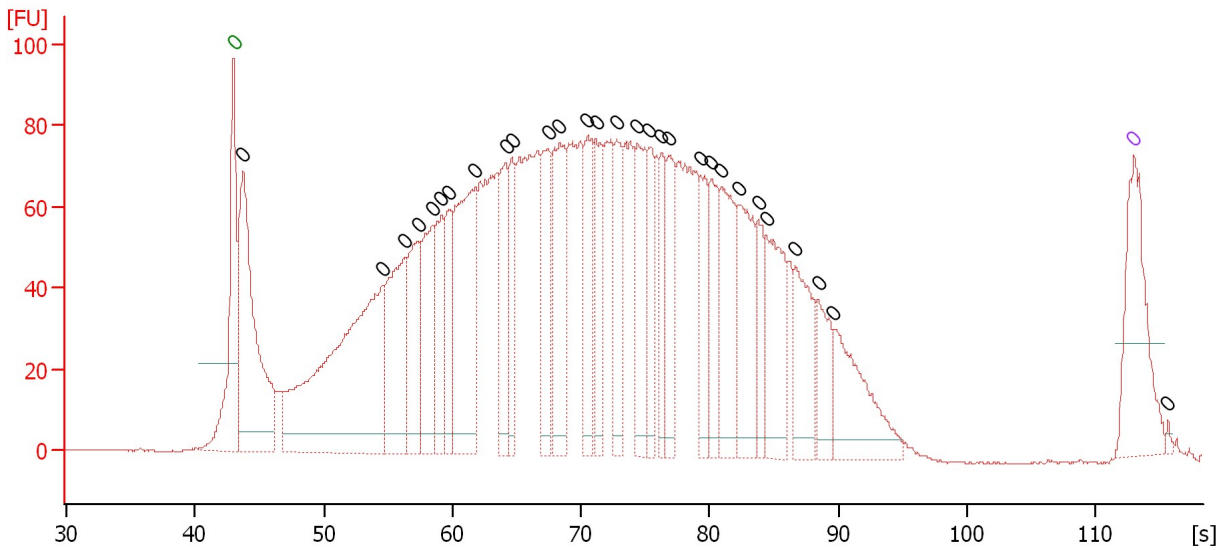
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	Lower Marker
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	Upper Marker
10	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

TT 4 TT26512



Overall Results for sample 5 : TT 4 TT26512

Number of peaks found: 29 Noise: 0.2

Peak table for sample 5 : TT 4 TT26512


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	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

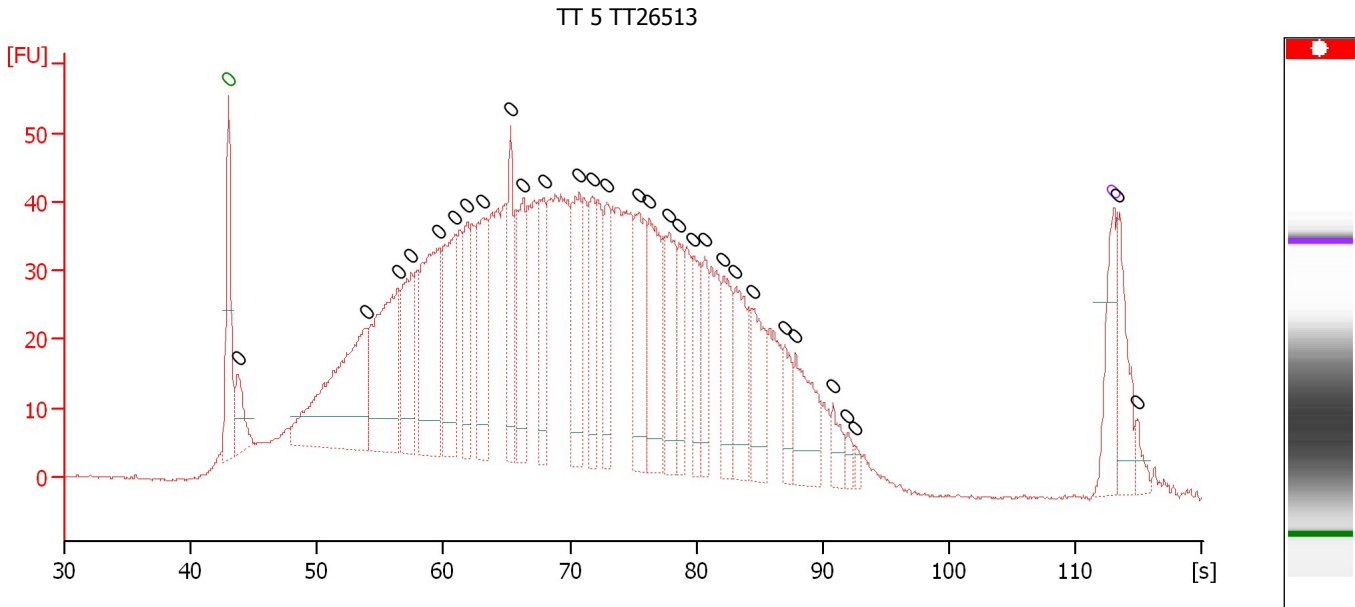
... Peak table for sample 5 : TT 4 TT26512

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	 0	0.00	0.0	Upper Marker
31	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TT 5 TT26513

Number of peaks found: 30 Noise: 0.2


Peak table for sample 6 : TT 5 TT26513

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	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

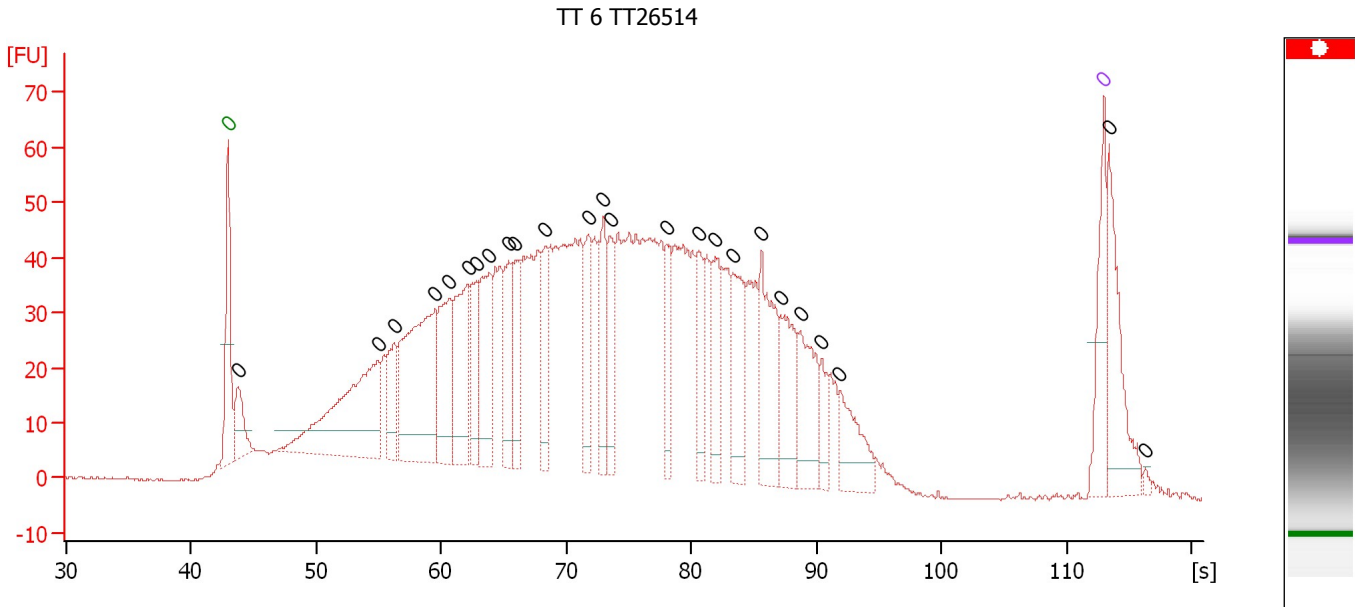
Electropherogram Summary Continued ...**... Peak table for sample 6 : TT 5 TT26513**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	 0	0.00	0.0	Upper Marker
31	0	0.00	0.0	
32	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : TT 6 TT26514

Number of peaks found: 25 Noise: 0.1

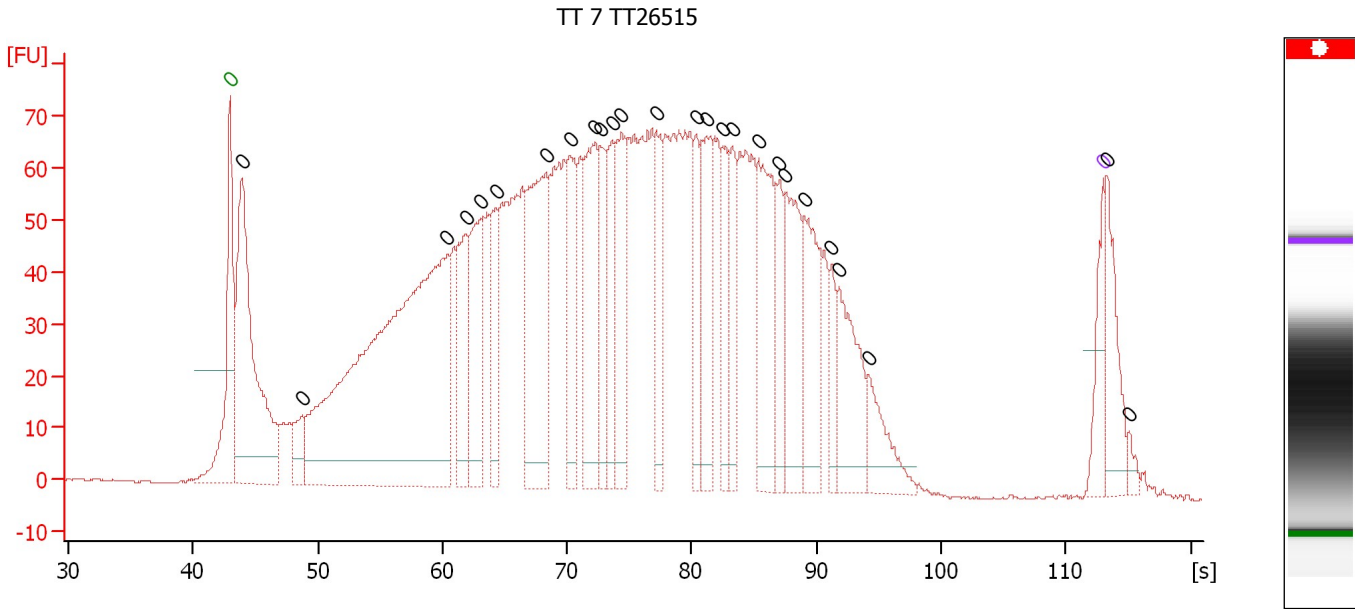
Peak table for sample 7 : TT 6 TT26514

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	
25	0	0.00	0.0	Upper Marker
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TT 7 TT26515

Number of peaks found: 26 Noise: 0.2

Peak table for sample 8 : TT 7 TT26515

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	
25	0	0.00	0.0	
26	0	0.00	0.0	Upper Marker
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

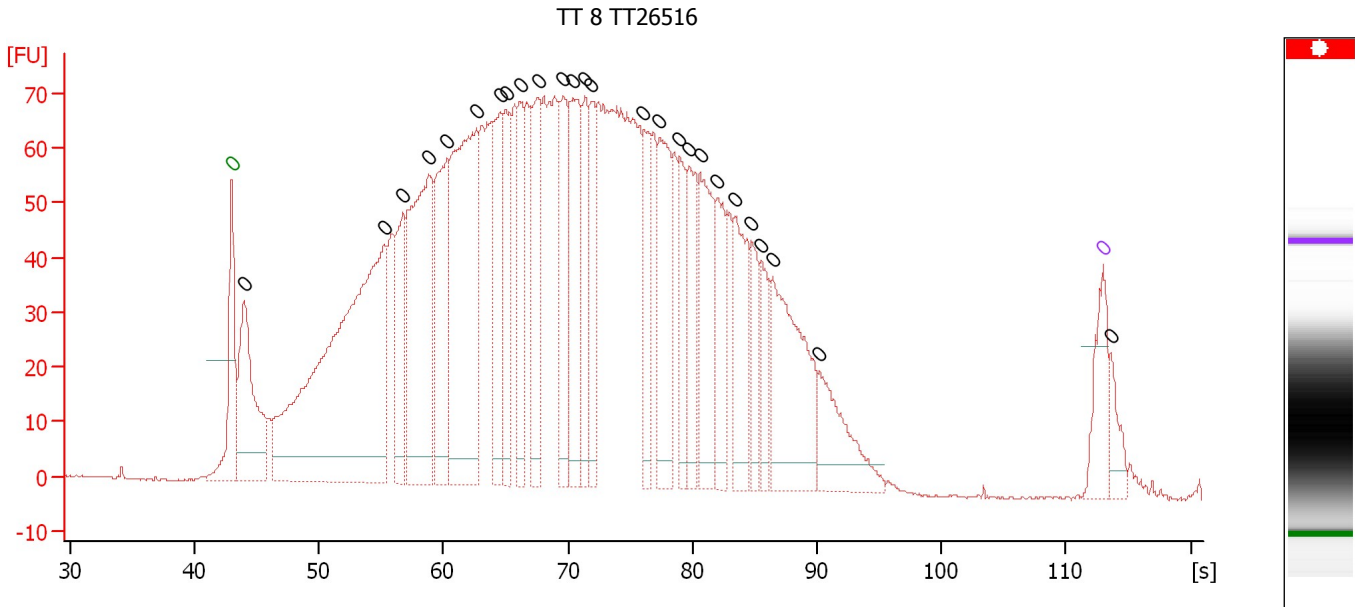
... Peak table for sample 8 : TT 7 TT26515

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TT 8 TT26516

Number of peaks found: 26 Noise: 0.2

Peak table for sample 9 : TT 8 TT26516

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	
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\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...

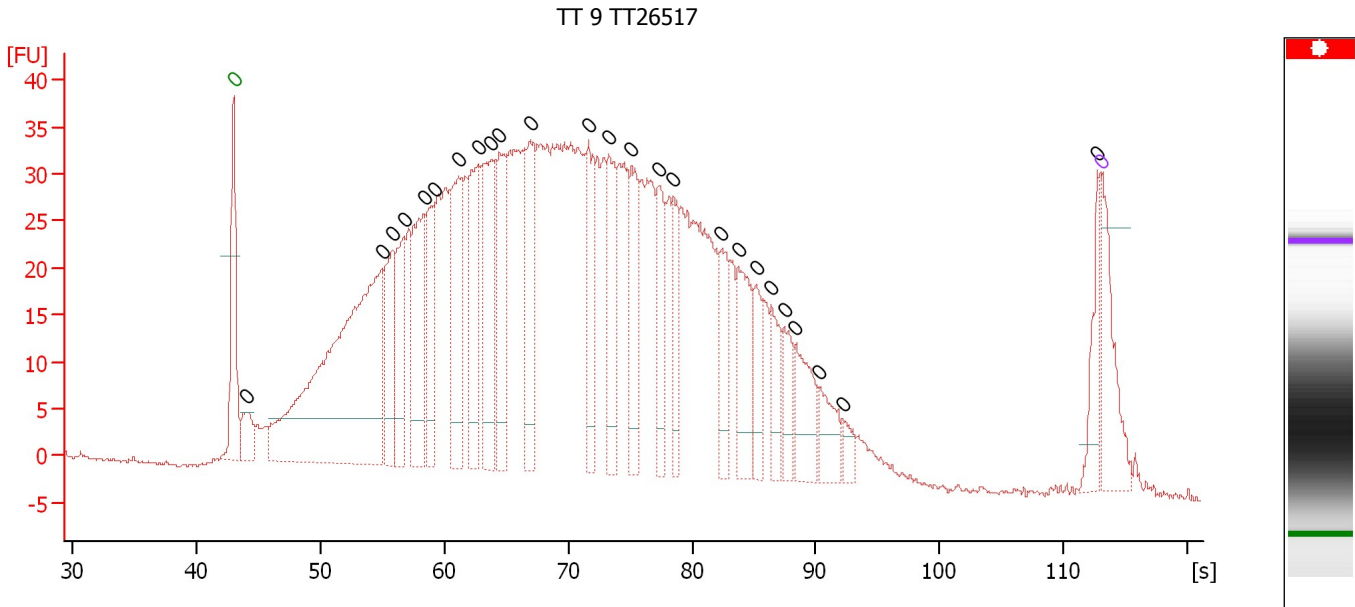
... Peak table for sample 9 : TT 8 TT26516

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : TT 9 TT26517

Number of peaks found: 25 Noise: 0.2

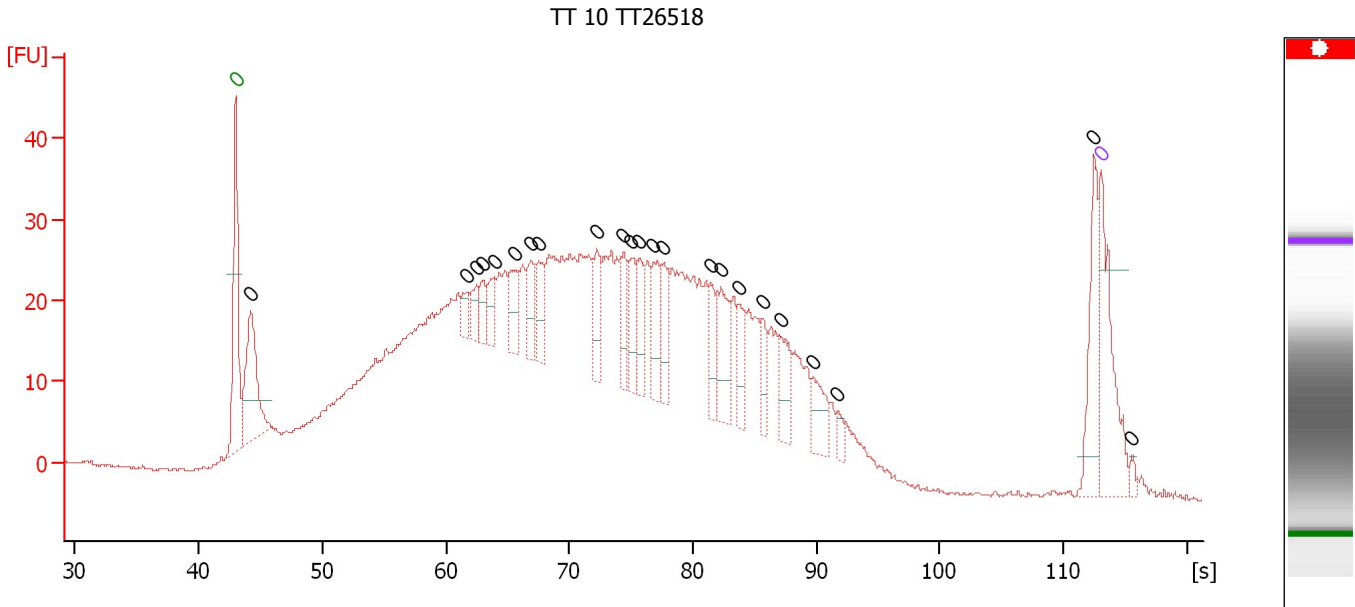
Peak table for sample 10 : TT 9 TT26517

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	
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\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : TT 10 TT26518

Number of peaks found: 23 Noise: 0.2

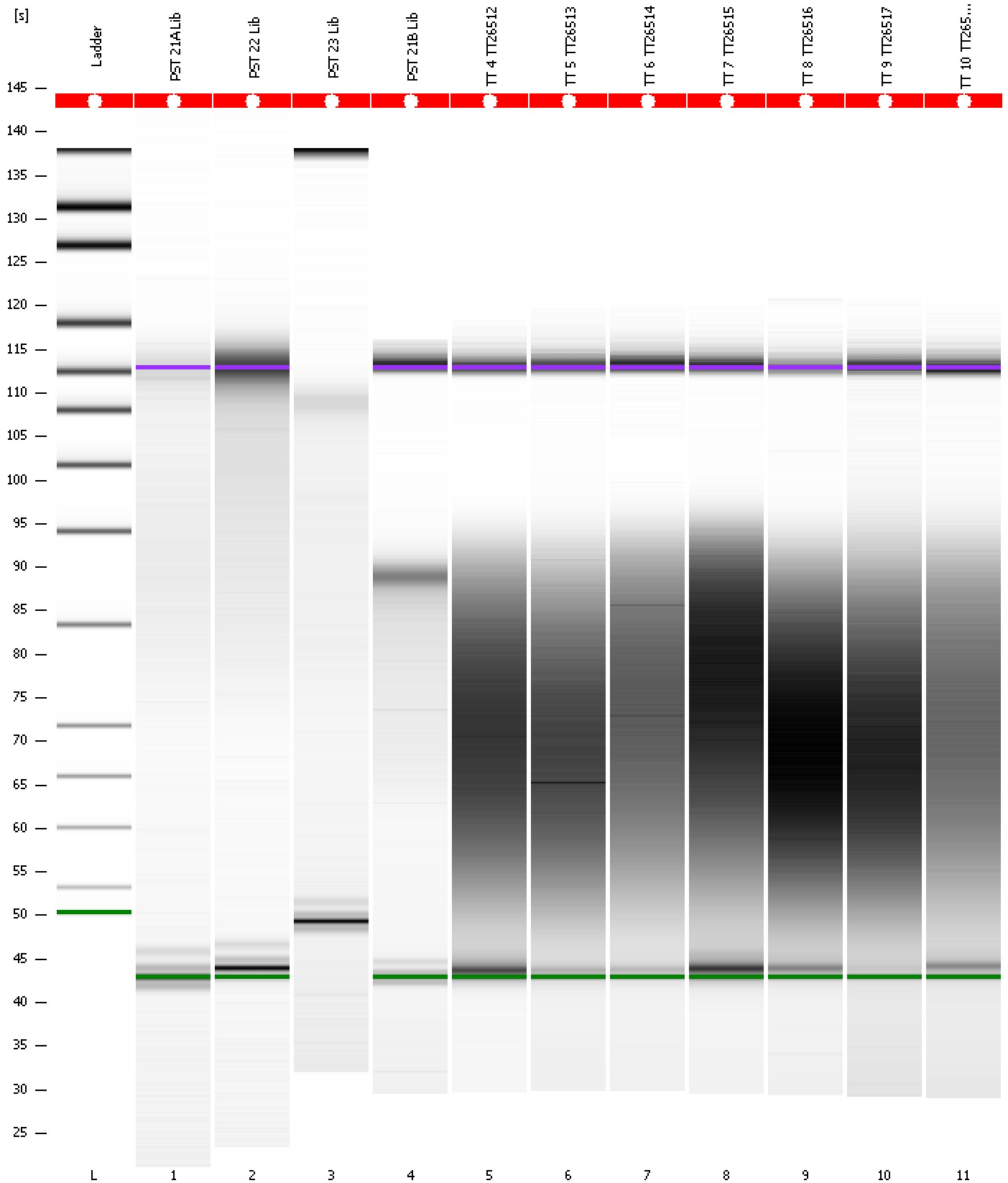
Peak table for sample 11 : TT 10 TT26518

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	Upper Marker
25	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
Modified: 3/12/2012 5:30:56 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad

Created: 3/12/2012 4:11:59 PM
 Modified: 3/12/2012 5:30:56 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		3/12/2012 4:53:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-12\2012-03-12_005.xad)		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/12/2012 4:12:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1