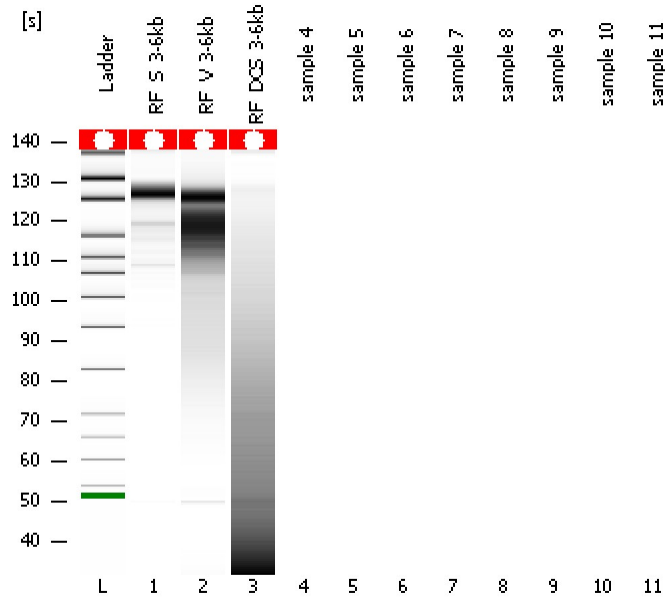


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 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

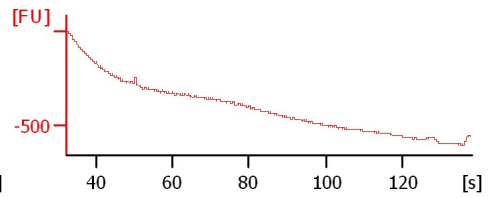
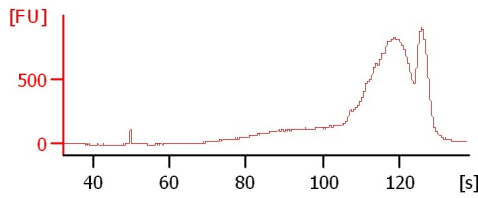
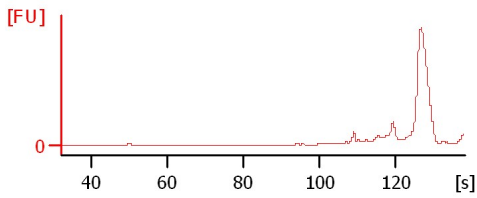
Chip Information:

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

RF_S_3-6kb

RF_V_3-6kb

RF_DCS_3-6kb



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RF_S_3-6kb		<input type="checkbox"/>		✓		
RF_V_3-6kb		<input type="checkbox"/>		✓		
RF_DCS_3-6kb		<input type="checkbox"/>		✓		
sample 4		<input type="checkbox"/>				
sample 5		<input type="checkbox"/>				
sample 6		<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\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 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

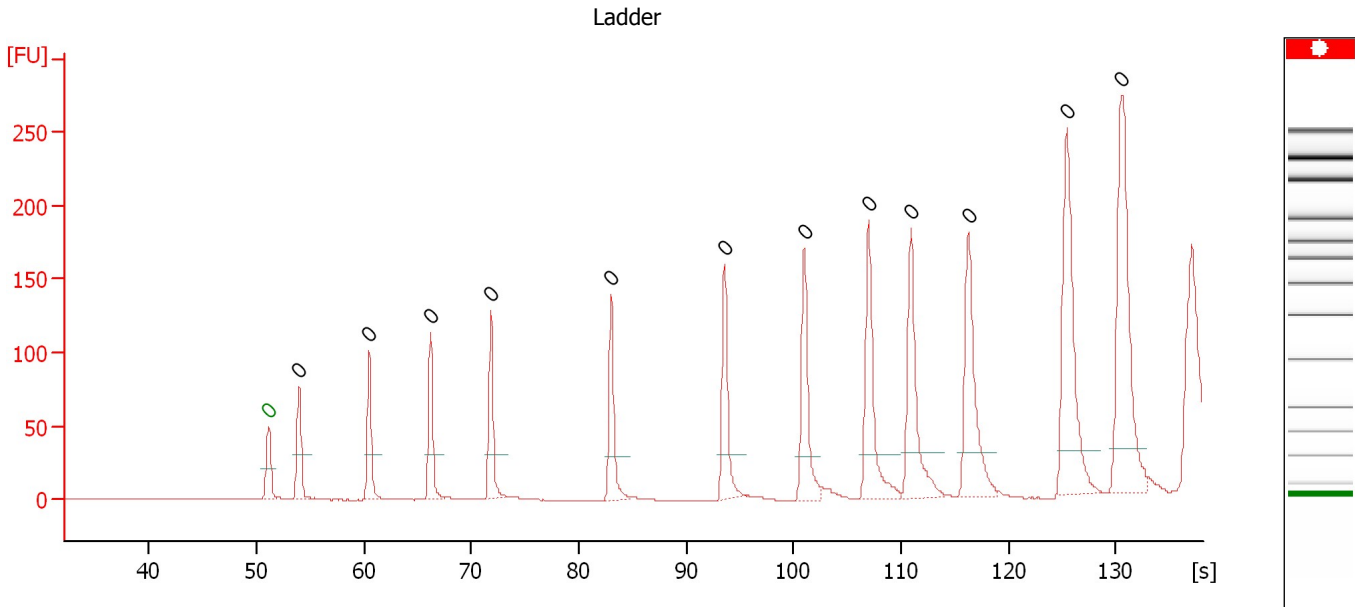
Ladder

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\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

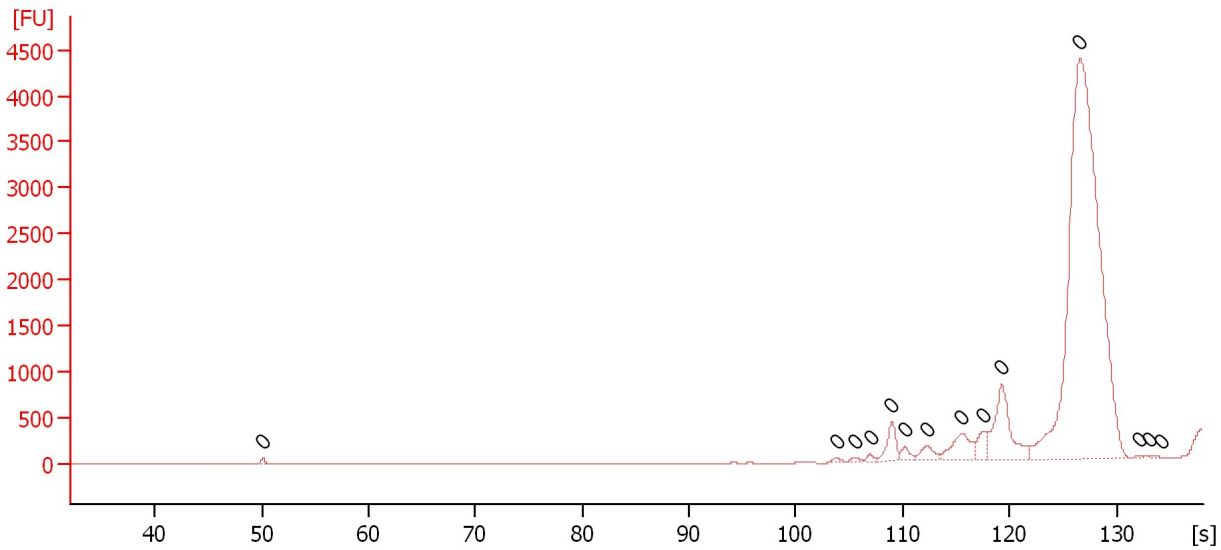
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.10
2	0	0.00	0.0	Ladder Peak	53.95
3	0	0.00	0.0	Ladder Peak	60.50
4	0	0.00	0.0	Ladder Peak	66.20
5	0	0.00	0.0	Ladder Peak	71.80
6	0	0.00	0.0	Ladder Peak	83.00
7	0	0.00	0.0	Ladder Peak	93.55
8	0	0.00	0.0	Ladder Peak	101.00
9	0	0.00	0.0	Ladder Peak	107.00
10	0	0.00	0.0	Ladder Peak	110.95
11	0	0.00	0.0	Ladder Peak	116.25
12	0	0.00	0.0	Ladder Peak	125.45
13	0	0.00	0.0	Ladder Peak	130.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
 Modified: 3/13/2015 11:45:26 AM

Electropherogram Summary Continued ...

RF_S_3-6kb



Overall Results for sample 1 : RF_S_3-6kb

Number of peaks found: 0 Noise: 0.2

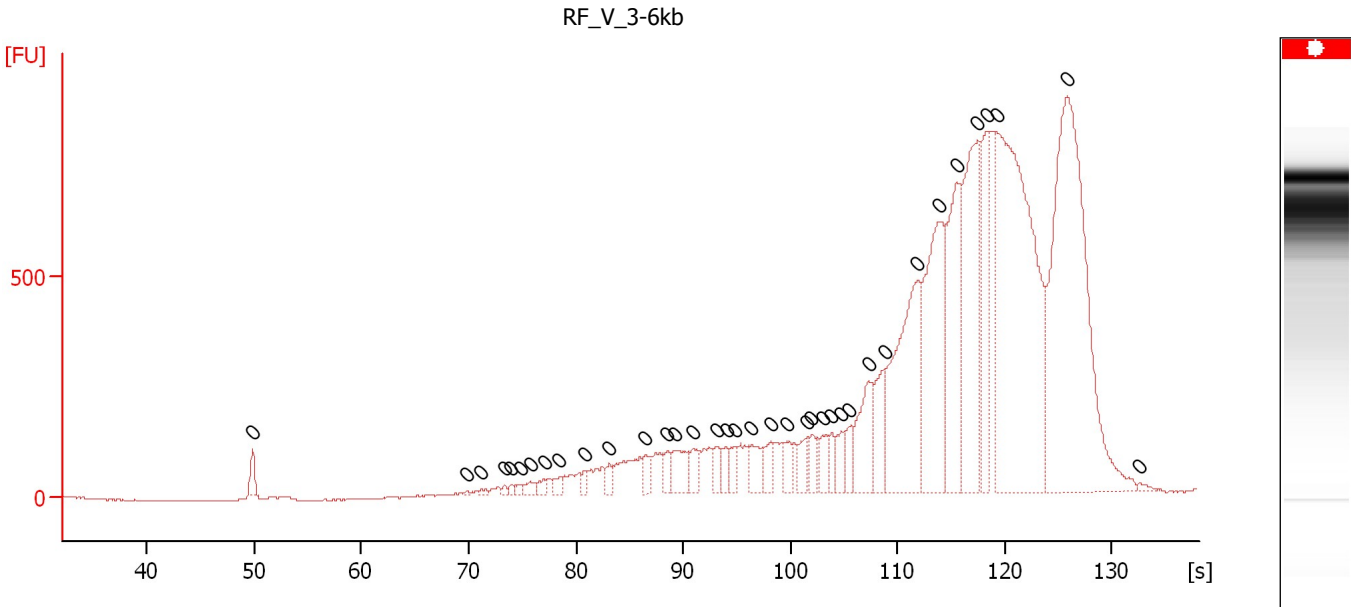
Peak table for sample 1 : RF_S_3-6kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.10
2	0	0.00	0.0		103.80
3	0	0.00	0.0		105.45
4	0	0.00	0.0		106.95
5	0	0.00	0.0		109.00
6	0	0.00	0.0		110.20
7	0	0.00	0.0		112.30
8	0	0.00	0.0		115.50
9	0	0.00	0.0		117.60
10	0	0.00	0.0		119.30
11	0	0.00	0.0		126.60
12	0	0.00	0.0		132.15
13	0	0.00	0.0		133.15
14	0	0.00	0.0		134.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
 Modified: 3/13/2015 11:45:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RF V 3-6kb

Number of peaks found: 0 Noise: 1.4

Peak table for sample 2 : RF V 3-6kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.85
2	0	0.00	0.0		69.85
3	0	0.00	0.0		71.15
4	0	0.00	0.0		73.35
5	0	0.00	0.0		73.95
6	0	0.00	0.0		74.90
7	0	0.00	0.0		75.75
8	0	0.00	0.0		77.00
9	0	0.00	0.0		78.45
10	0	0.00	0.0		80.75
11	0	0.00	0.0		83.10
12	0	0.00	0.0		86.45
13	0	0.00	0.0		88.50
14	0	0.00	0.0		89.20
15	0	0.00	0.0		90.85
16	0	0.00	0.0		93.10
17	0	0.00	0.0		94.00
18	0	0.00	0.0		94.80
19	0	0.00	0.0		96.30
20	0	0.00	0.0		98.15
21	0	0.00	0.0		99.65
22	0	0.00	0.0		101.55
23	0	0.00	0.0		102.00
24	0	0.00	0.0		103.05
25	0	0.00	0.0		103.85
26	0	0.00	0.0		104.75
27	0	0.00	0.0		105.40

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : RF V 3-6kb

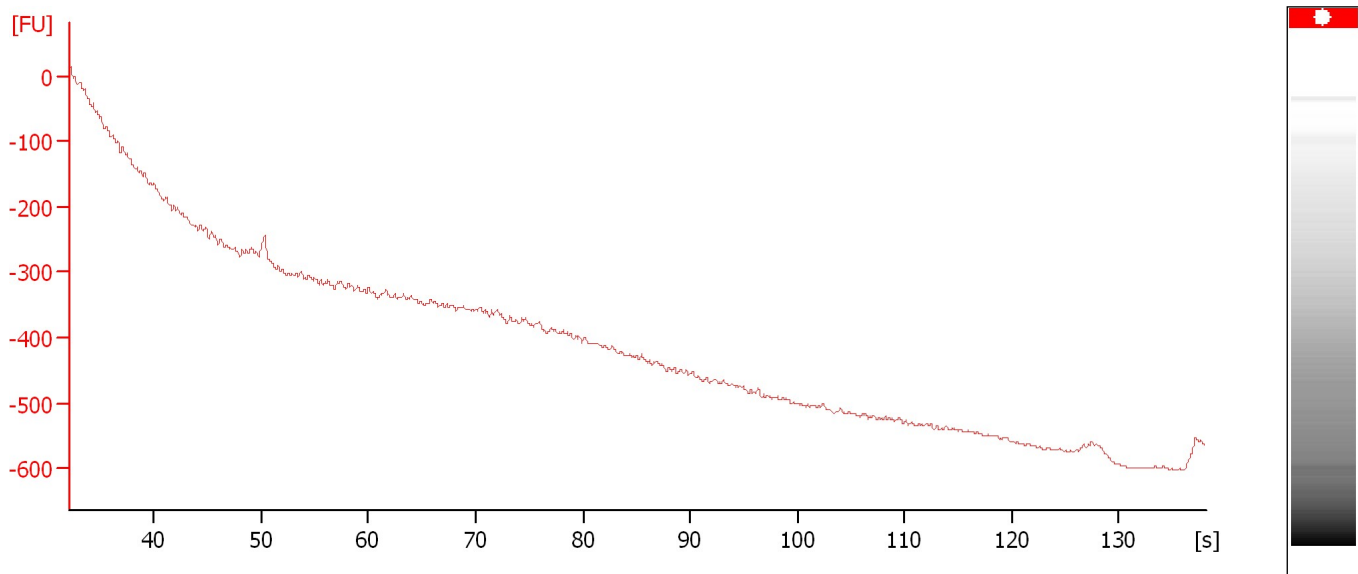
Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		107.30
29	0	0.00	0.0		108.75
30	0	0.00	0.0		111.80
31	0	0.00	0.0		113.80
32	0	0.00	0.0		115.50
33	0	0.00	0.0		117.50
34	0	0.00	0.0		118.30
35	0	0.00	0.0		119.20
36	0	0.00	0.0		125.80
37	0	0.00	0.0		132.50

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 AM

Electropherogram Summary Continued ...

RF_DCS_3-6kb



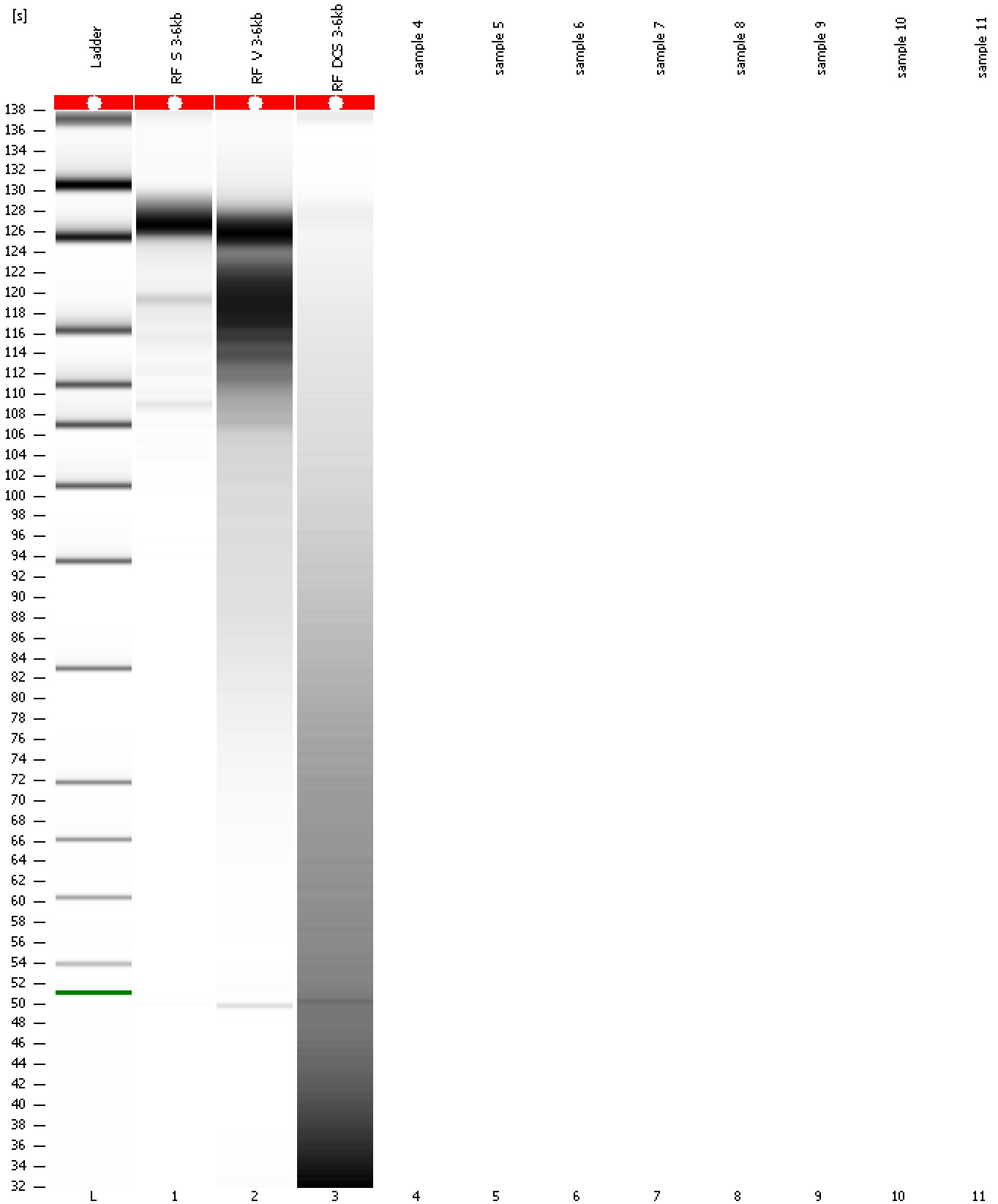
Overall Results for sample 3 : RF_DCS_3-6kb

Noise: 1.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
Modified: 3/13/2015 11:45:26 AM

Invalid Samples

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

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\2015-03-13\2015-03-13_002.xad

Created: 3/13/2015 11:27:01 AM
 Modified: 3/13/2015 11:45:26 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		3/13/2015 1:45:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-13\2015-03-13_002.xad)		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/13/2015 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1