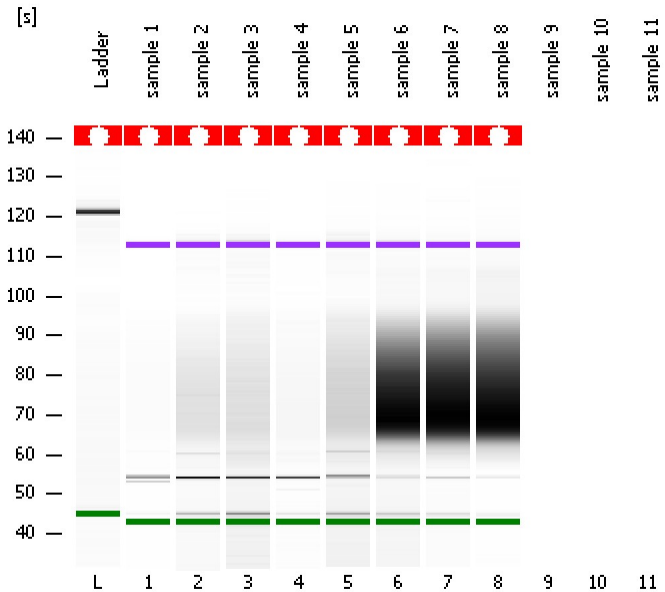


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 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

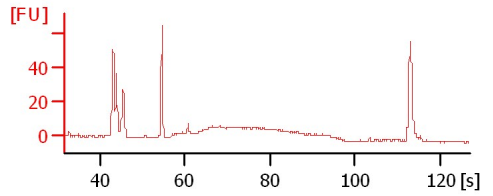
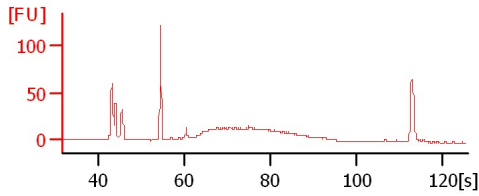
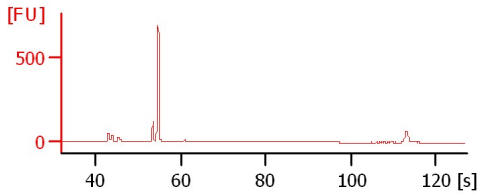
Chip Information:

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

sample 1

sample 2

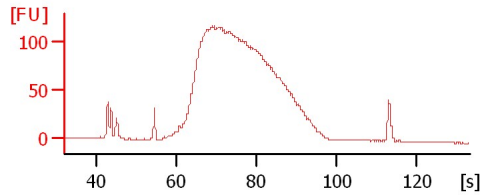
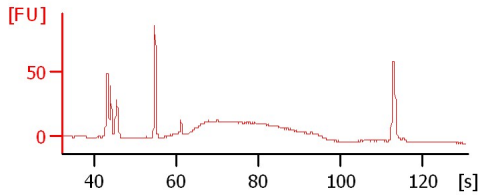
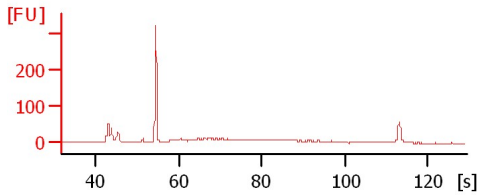
sample 3



sample 4

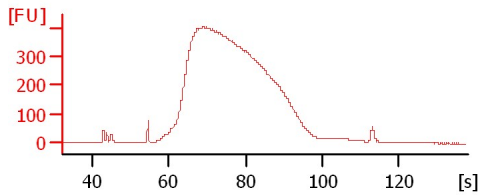
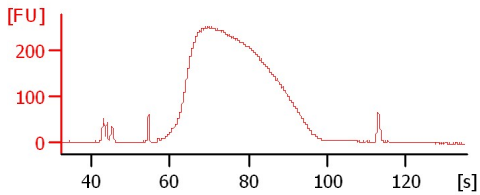
sample 5

sample 6



sample 7

sample 8



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<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\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 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

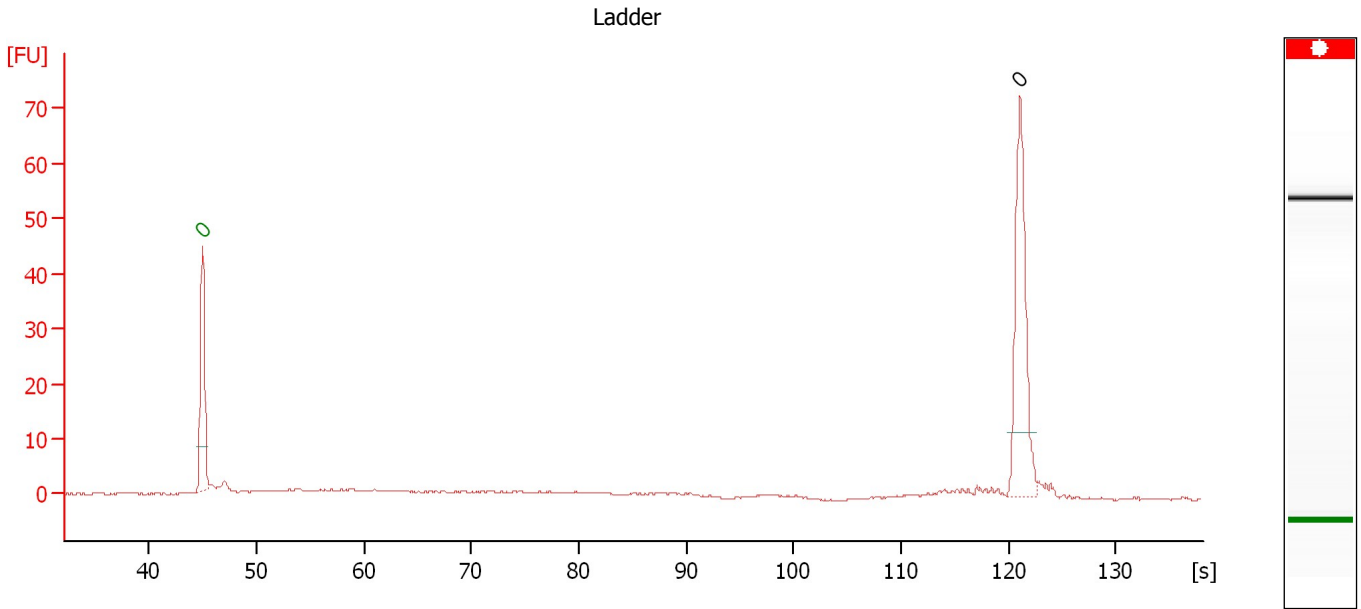
Ladder

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\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

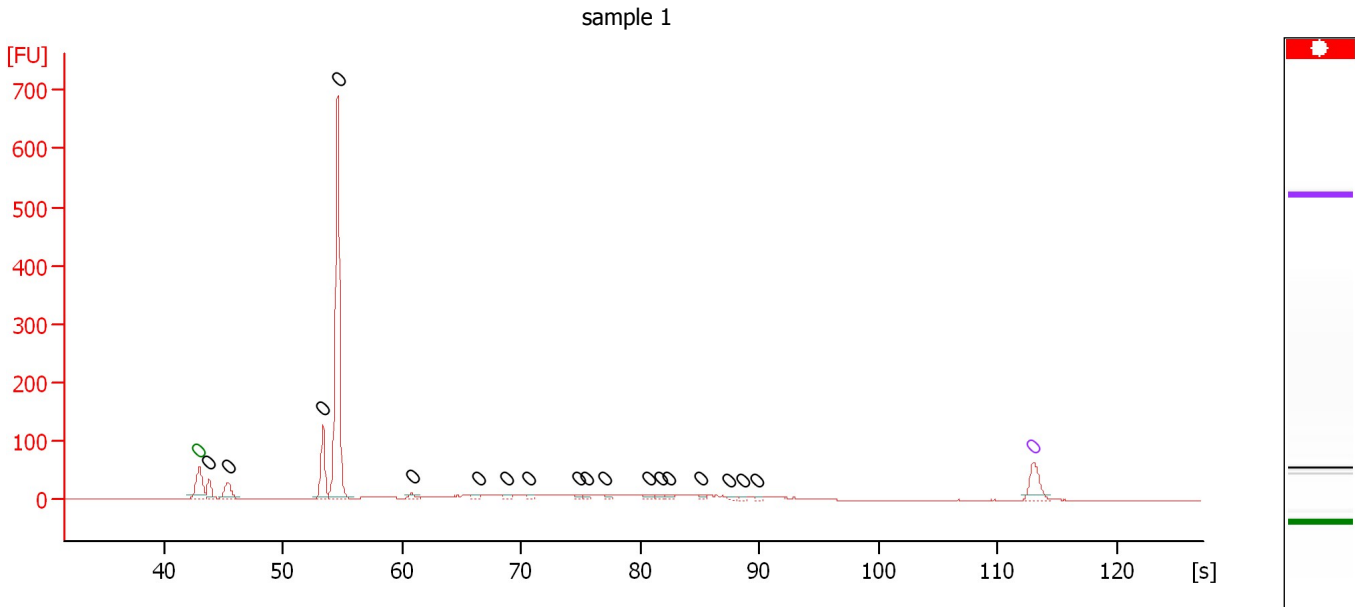
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	44.95
2	0	0.00	0.0	Ladder Peak	121.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 18 Noise: 0.2

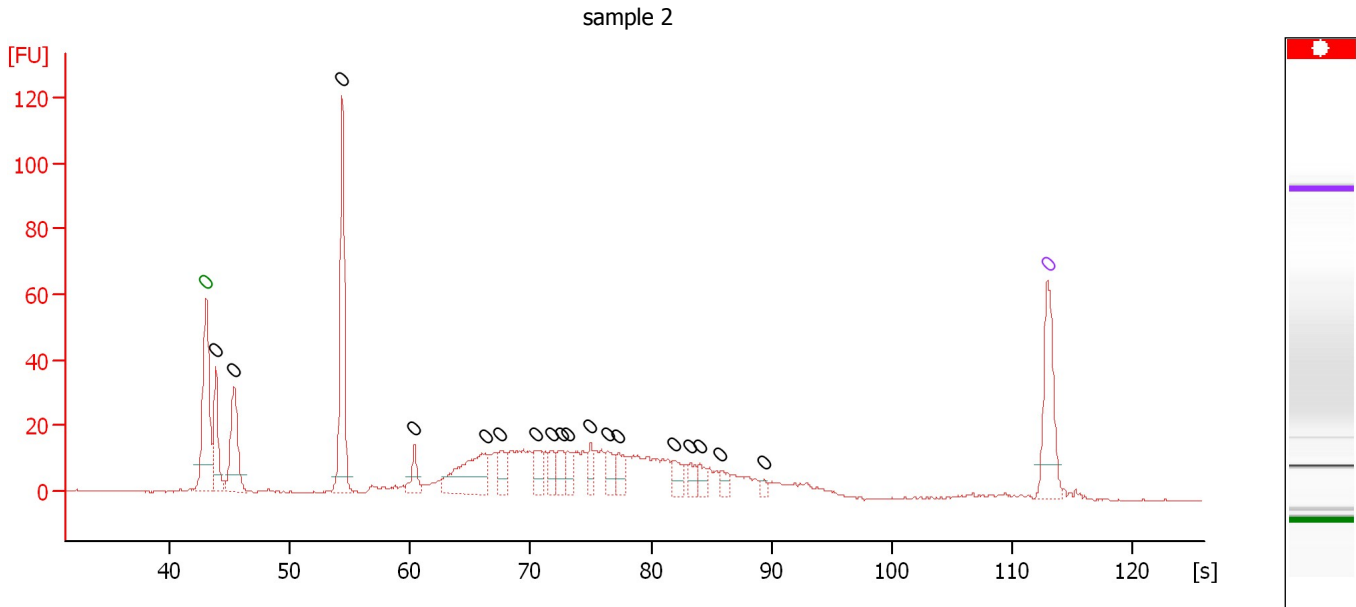
Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.81
3	0	0.00	0.0		45.39
4	0	0.00	0.0		53.41
5	0	0.00	0.0		54.62
6	0	0.00	0.0		60.84
7	0	0.00	0.0		66.42
8	0	0.00	0.0		68.72
9	0	0.00	0.0		70.70
10	0	0.00	0.0		74.80
11	0	0.00	0.0		75.48
12	0	0.00	0.0		77.05
13	0	0.00	0.0		80.66
14	0	0.00	0.0		81.78
15	0	0.00	0.0		82.32
16	0	0.00	0.0		85.12
17	0	0.00	0.0		87.41
18	0	0.00	0.0		88.63
19	0	0.00	0.0		89.76
20	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 18 Noise: 0.2

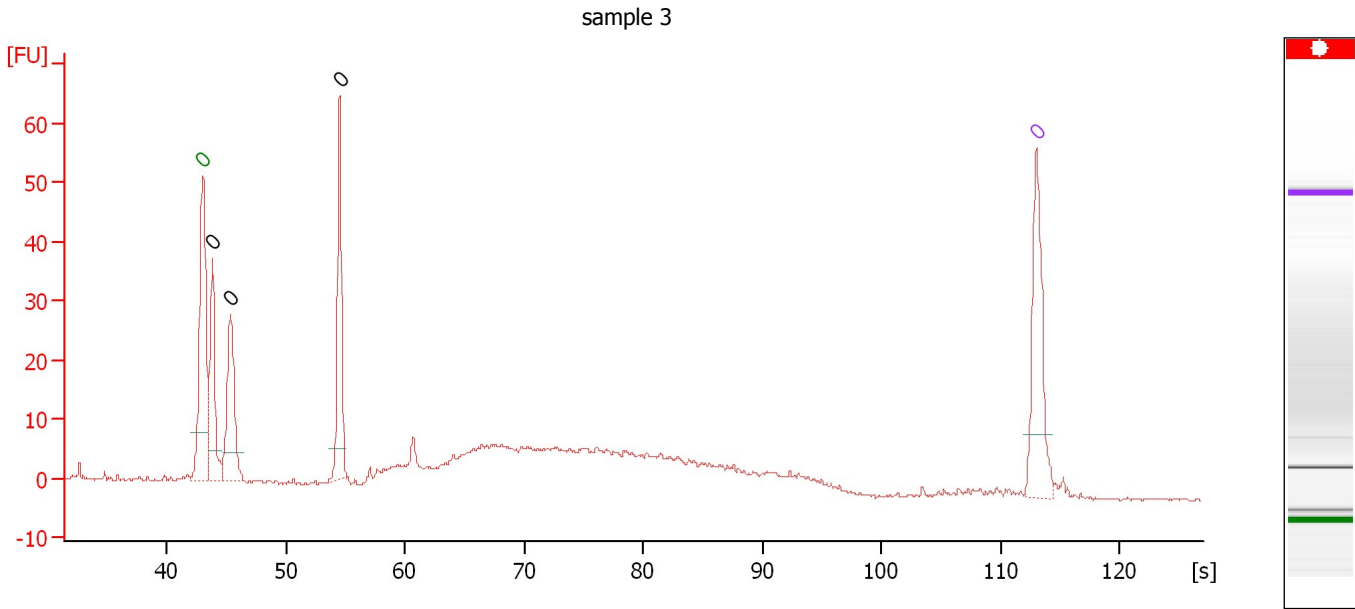
Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.80
3	0	0.00	0.0		45.32
4	0	0.00	0.0		54.35
5	0	0.00	0.0		60.33
6	0	0.00	0.0		66.18
7	0	0.00	0.0		67.48
8	0	0.00	0.0		70.47
9	0	0.00	0.0		71.72
10	0	0.00	0.0		72.62
11	0	0.00	0.0		73.11
12	0	0.00	0.0		74.98
13	0	0.00	0.0		76.37
14	0	0.00	0.0		77.31
15	0	0.00	0.0		81.91
16	0	0.00	0.0		83.29
17	0	0.00	0.0		84.10
18	0	0.00	0.0		85.80
19	0	0.00	0.0		89.41
20	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 3 Noise: 0.2

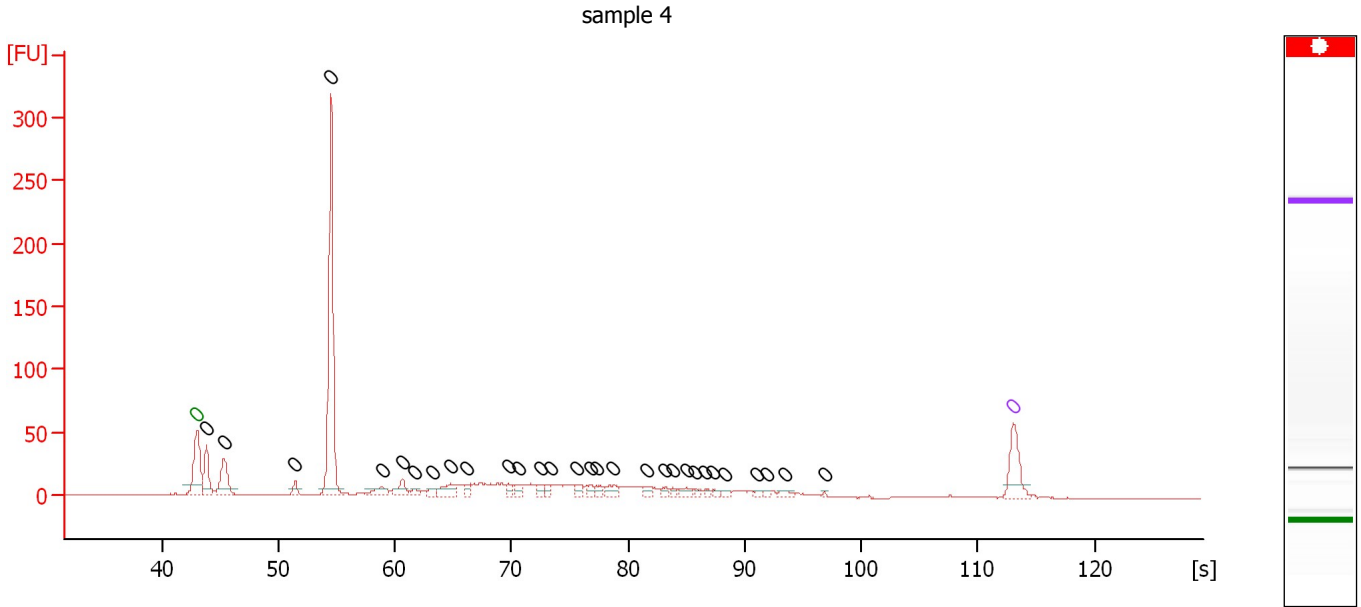
Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.81
3	0	0.00	0.0		45.30
4	0	0.00	0.0		54.50
5	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 30 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.78
3	0	0.00	0.0		45.30
4	0	0.00	0.0		51.43
5	0	0.00	0.0		54.52
6	0	0.00	0.0		58.85
7	0	0.00	0.0		60.60
8	0	0.00	0.0		61.66
9	0	0.00	0.0		63.18
10	0	0.00	0.0		64.75
11	0	0.00	0.0		66.18
12	0	0.00	0.0		69.73
13	0	0.00	0.0		70.65
14	0	0.00	0.0		72.45
15	0	0.00	0.0		73.28
16	0	0.00	0.0		75.63
17	0	0.00	0.0		76.73
18	0	0.00	0.0		77.29
19	0	0.00	0.0		78.76
20	0	0.00	0.0		81.53
21	0	0.00	0.0		83.23
22	0	0.00	0.0		83.83
23	0	0.00	0.0		84.98
24	0	0.00	0.0		85.72
25	0	0.00	0.0		86.64
26	0	0.00	0.0		87.33
27	0	0.00	0.0		88.25

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 AM

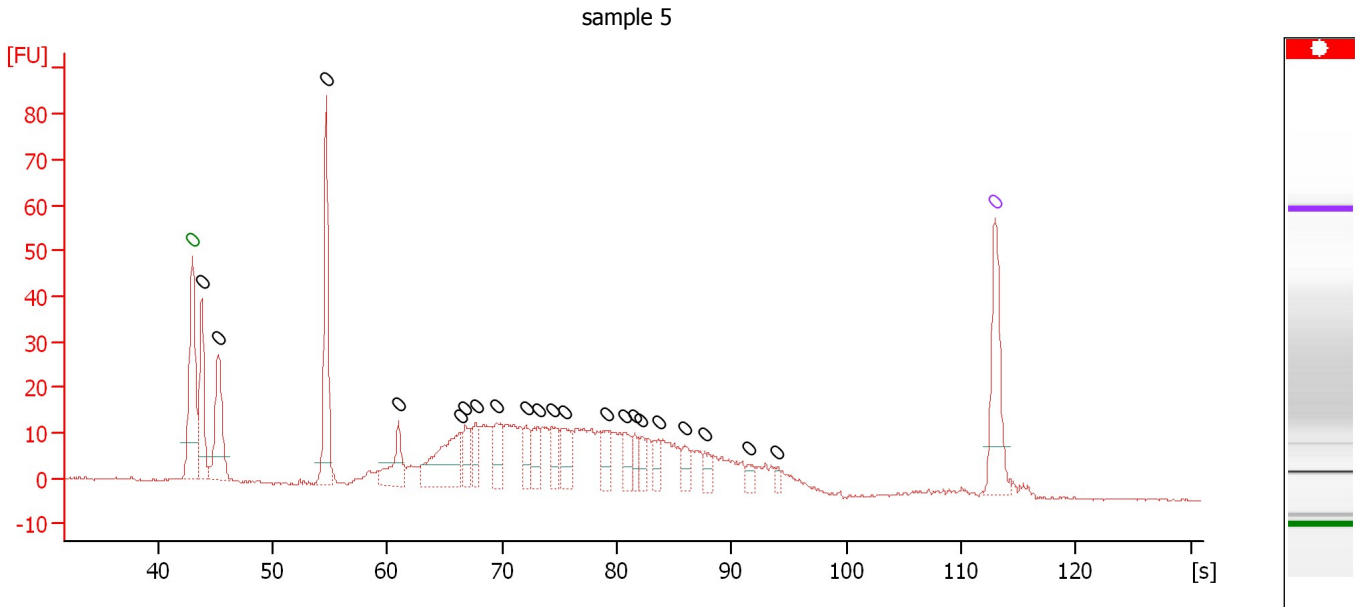
Electropherogram Summary Continued ...**... Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		91.02
29	0	0.00	0.0		91.85
30	0	0.00	0.0		93.37
31	0	0.00	0.0		96.87
32	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 21 Noise: 0.2

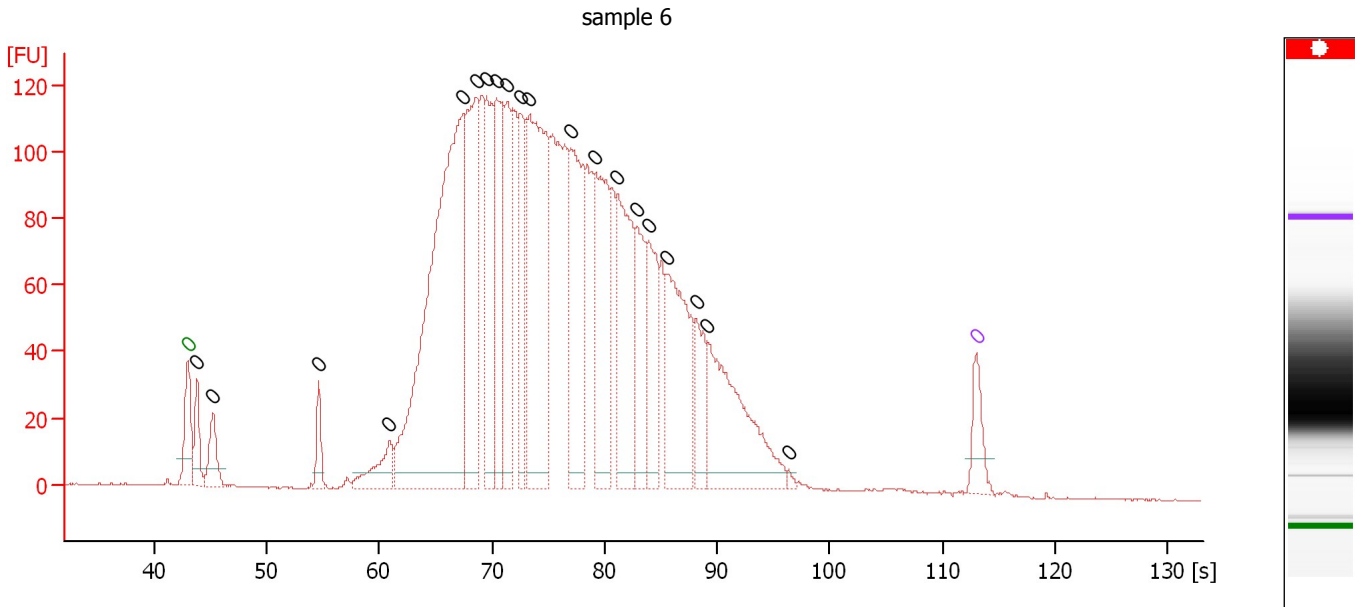
Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.84
3	0	0.00	0.0		45.29
4	0	0.00	0.0		54.70
5	0	0.00	0.0		60.97
6	0	0.00	0.0		66.40
7	0	0.00	0.0		66.82
8	0	0.00	0.0		67.71
9	0	0.00	0.0		69.53
10	0	0.00	0.0		72.10
11	0	0.00	0.0		73.18
12	0	0.00	0.0		74.40
13	0	0.00	0.0		75.52
14	0	0.00	0.0		79.12
15	0	0.00	0.0		80.71
16	0	0.00	0.0		81.56
17	0	0.00	0.0		82.16
18	0	0.00	0.0		83.66
19	0	0.00	0.0		85.91
20	0	0.00	0.0		87.69
21	0	0.00	0.0		91.43
22	0	0.00	0.0		93.91
23	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 20 Noise: 0.2

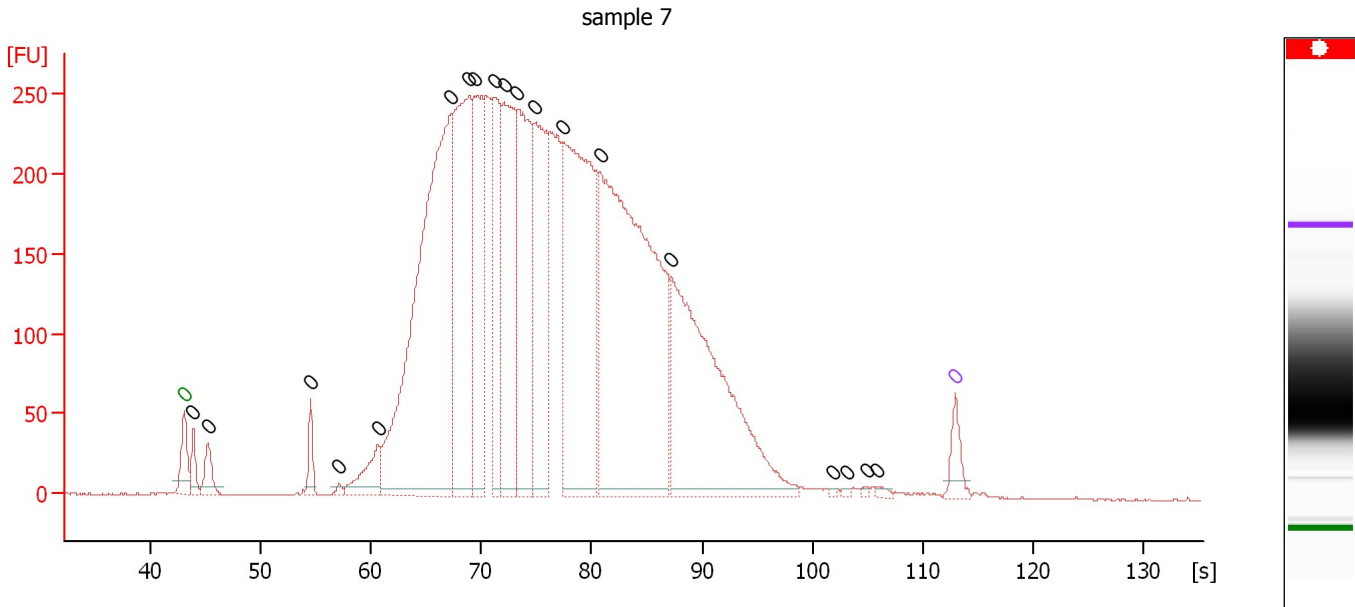
Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.81
3	0	0.00	0.0		45.19
4	0	0.00	0.0		54.63
5	0	0.00	0.0		60.88
6	0	0.00	0.0		67.41
7	0	0.00	0.0		68.61
8	0	0.00	0.0		69.56
9	0	0.00	0.0		70.42
10	0	0.00	0.0		71.28
11	0	0.00	0.0		72.52
12	0	0.00	0.0		73.33
13	0	0.00	0.0		77.00
14	0	0.00	0.0		79.10
15	0	0.00	0.0		81.15
16	0	0.00	0.0		82.86
17	0	0.00	0.0		83.91
18	0	0.00	0.0		85.58
19	0	0.00	0.0		88.11
20	0	0.00	0.0		89.16
21	0	0.00	0.0		96.36
22	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 19 Noise: 0.3

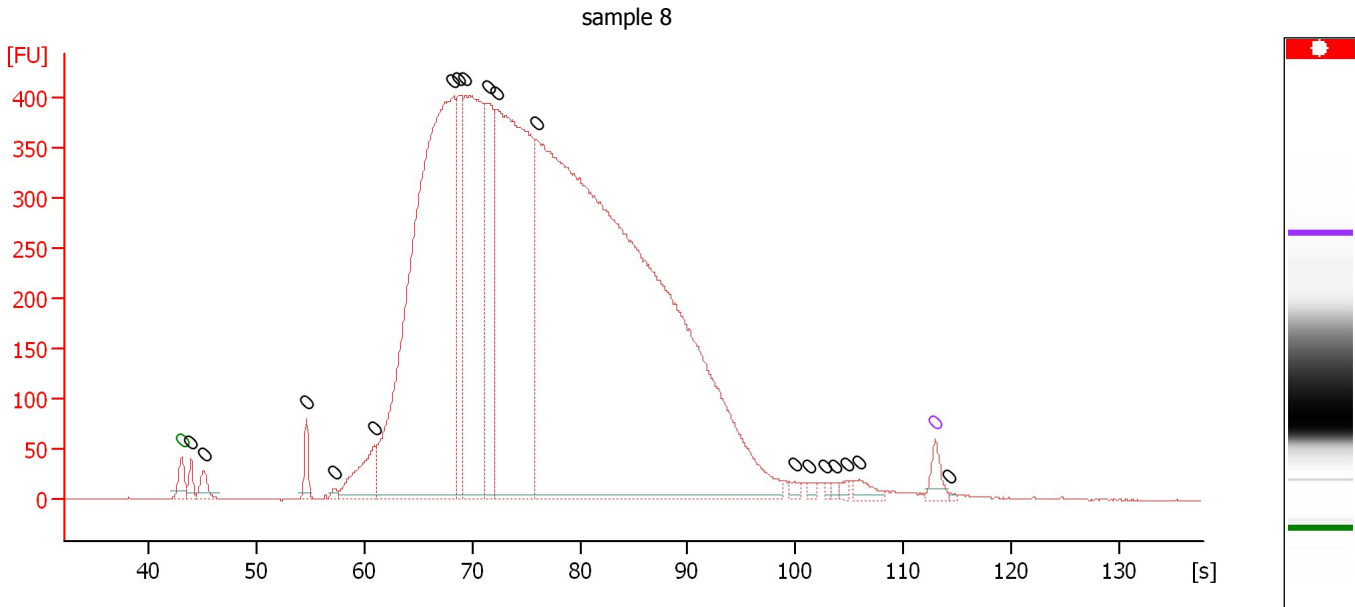
Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.83
3	0	0.00	0.0		45.14
4	0	0.00	0.0		54.50
5	0	0.00	0.0		57.09
6	0	0.00	0.0		60.60
7	0	0.00	0.0		67.28
8	0	0.00	0.0		68.84
9	0	0.00	0.0		69.42
10	0	0.00	0.0		71.18
11	0	0.00	0.0		72.05
12	0	0.00	0.0		73.27
13	0	0.00	0.0		74.88
14	0	0.00	0.0		77.37
15	0	0.00	0.0		80.73
16	0	0.00	0.0		87.26
17	0	0.00	0.0		101.98
18	0	0.00	0.0		103.10
19	0	0.00	0.0		104.96
20	0	0.00	0.0		105.98
21	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 18 Noise: 0.6

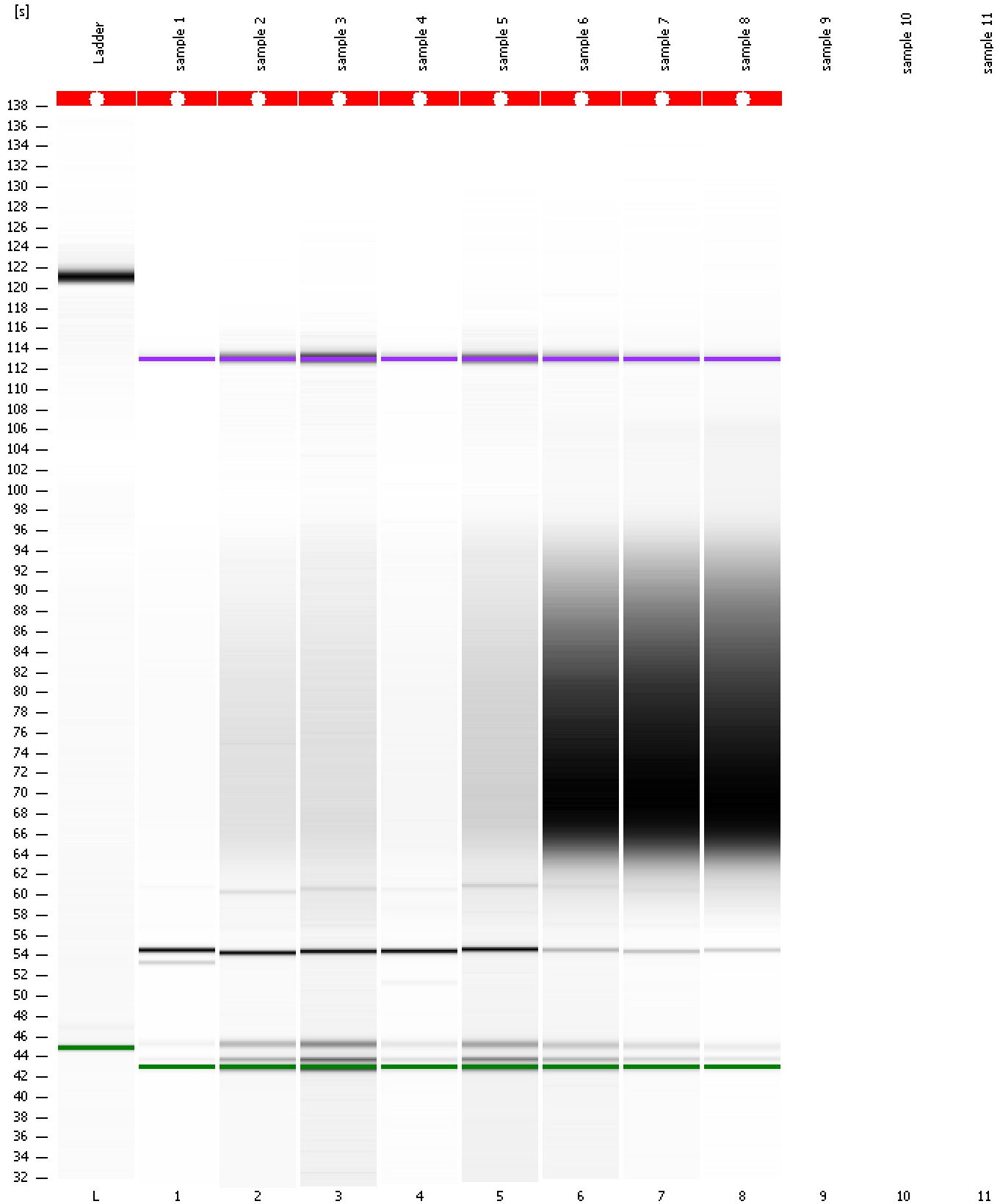
Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.90
3	0	0.00	0.0		45.04
4	0	0.00	0.0		54.62
5	0	0.00	0.0		57.21
6	0	0.00	0.0		60.90
7	0	0.00	0.0		68.23
8	0	0.00	0.0		68.78
9	0	0.00	0.0		69.37
10	0	0.00	0.0		71.52
11	0	0.00	0.0		72.27
12	0	0.00	0.0		75.96
13	0	0.00	0.0		99.89
14	0	0.00	0.0		101.33
15	0	0.00	0.0		102.83
16	0	0.00	0.0		103.73
17	0	0.00	0.0		104.72
18	0	0.00	0.0		105.87
19	0	0.00	0.0	Upper Marker	113.00
20	0	0.00	0.0		114.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
Modified: 12/11/2015 11:06:32 AM

Invalid Samples

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\2015-12-11\2015-12-11_001.xad

Created: 12/11/2015 10:33:48 AM
 Modified: 12/11/2015 11:06:32 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		12/11/2015 11:06:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-11\2015-12-11_001.xad)		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/11/2015 10:33:54 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1