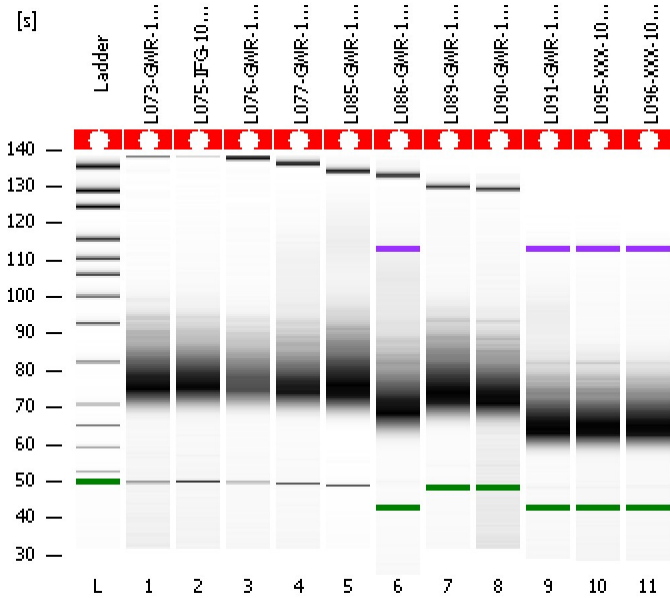


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
Modified: 3/27/2019 12:13:07 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

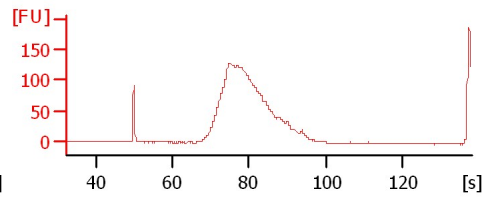
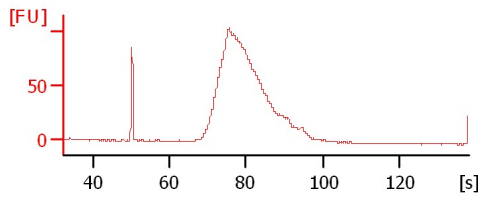
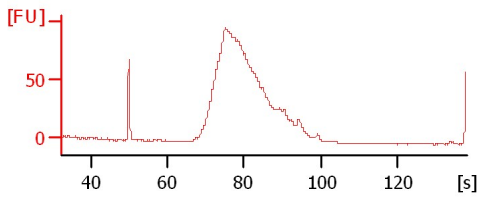
Chip Information:

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

L073-GWR-100-245-1-OW

L075-IFG-100-38-3-TW

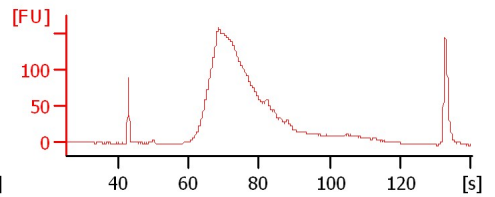
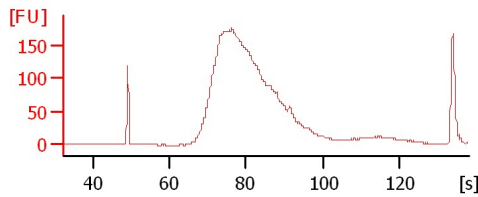
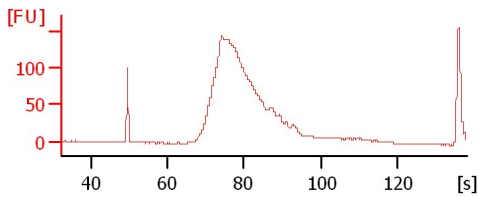
L076-GWR-100-245-6-NW



L077-GWR-100-135-4-NW

L085-GWR-100-258-2-TW

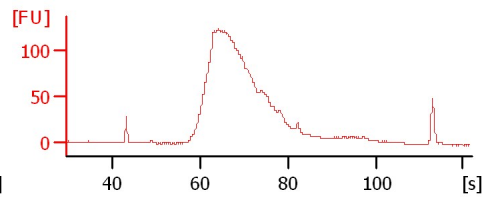
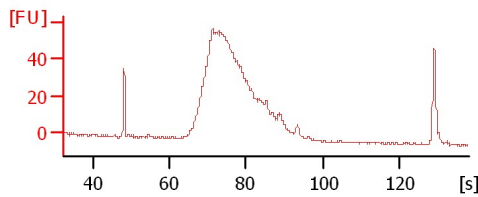
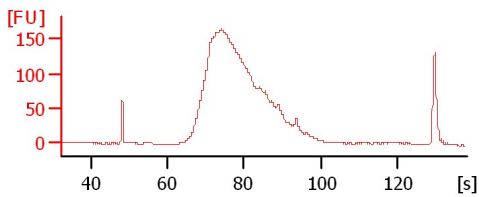
L086-GWR-100-431-3-OW



L089-GWR-100-283-2-TW

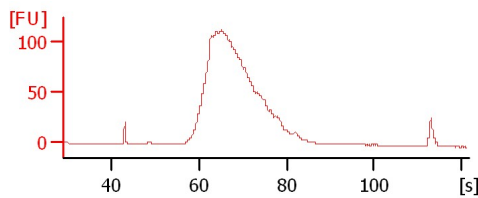
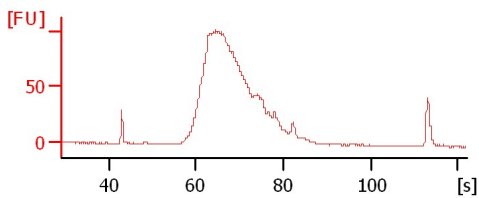
L090-GWR-100-212-1-OW

L091-GWR-100-90-2-TW



L095-XXX-100-109-3-OW

L096-XXX-100-109-2-TW



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
L073-GWR-100-245-1-OW		<input type="checkbox"/>	✓			
L075-IFG-100-38-3-TW		<input type="checkbox"/>	✓			
L076-GWR-100-245-6-NW		<input type="checkbox"/>	✓			
L077-GWR-100-135-4-NW		<input type="checkbox"/>	✓			
L085-GWR-100-258-2-TW		<input type="checkbox"/>	✓			
L086-GWR-100-431-3-OW		<input type="checkbox"/>	✓			
L089-GWR-100-283-2-TW		<input type="checkbox"/>	✓			
L090-GWR-100-212-1-OW		<input type="checkbox"/>	✓			
L091-GWR-100-90-2-TW		<input type="checkbox"/>	✓			
L095-XXX-100-109-3-OW		<input type="checkbox"/>	✓			
L096-XXX-100-109-2-TW		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
Modified: 3/27/2019 12:13:07 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

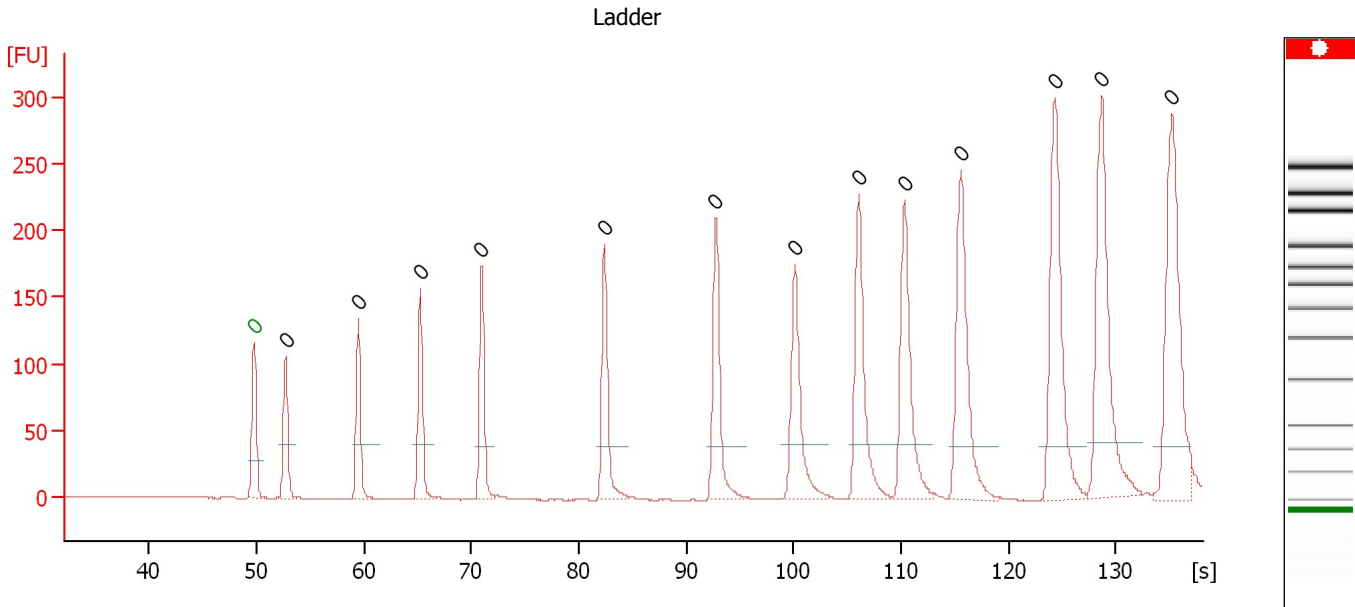
Ladder

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:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

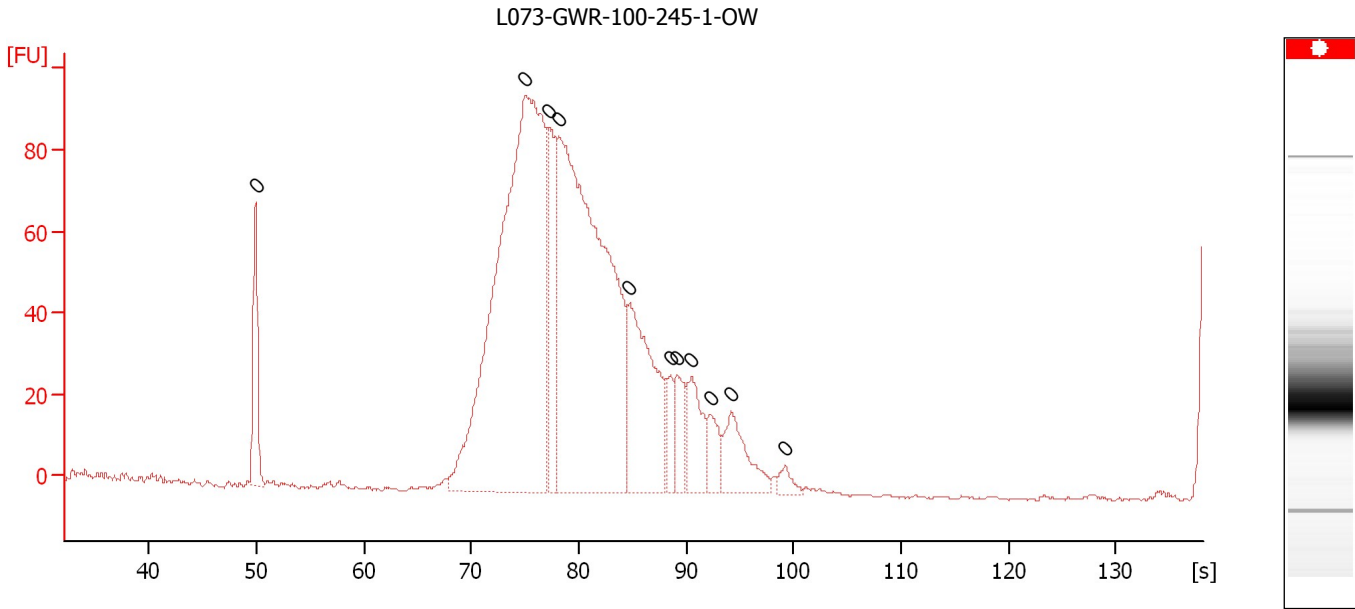
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.75
2	0	0.00	0.0	Ladder Peak	52.70
3	0	0.00	0.0	Ladder Peak	59.45
4	0	0.00	0.0	Ladder Peak	65.25
5	0	0.00	0.0	Ladder Peak	70.95
6	0	0.00	0.0	Ladder Peak	82.40
7	0	0.00	0.0	Ladder Peak	92.75
8	0	0.00	0.0	Ladder Peak	100.15
9	0	0.00	0.0	Ladder Peak	106.05
10	0	0.00	0.0	Ladder Peak	110.35
11	0	0.00	0.0	Ladder Peak	115.55
12	0	0.00	0.0	Ladder Peak	124.35
13	0	0.00	0.0	Ladder Peak	128.70
14	0	0.00	0.0	Ladder Peak	135.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : L073-GWR-100-245-1-OW

Number of peaks found: 0 Noise: 0.4

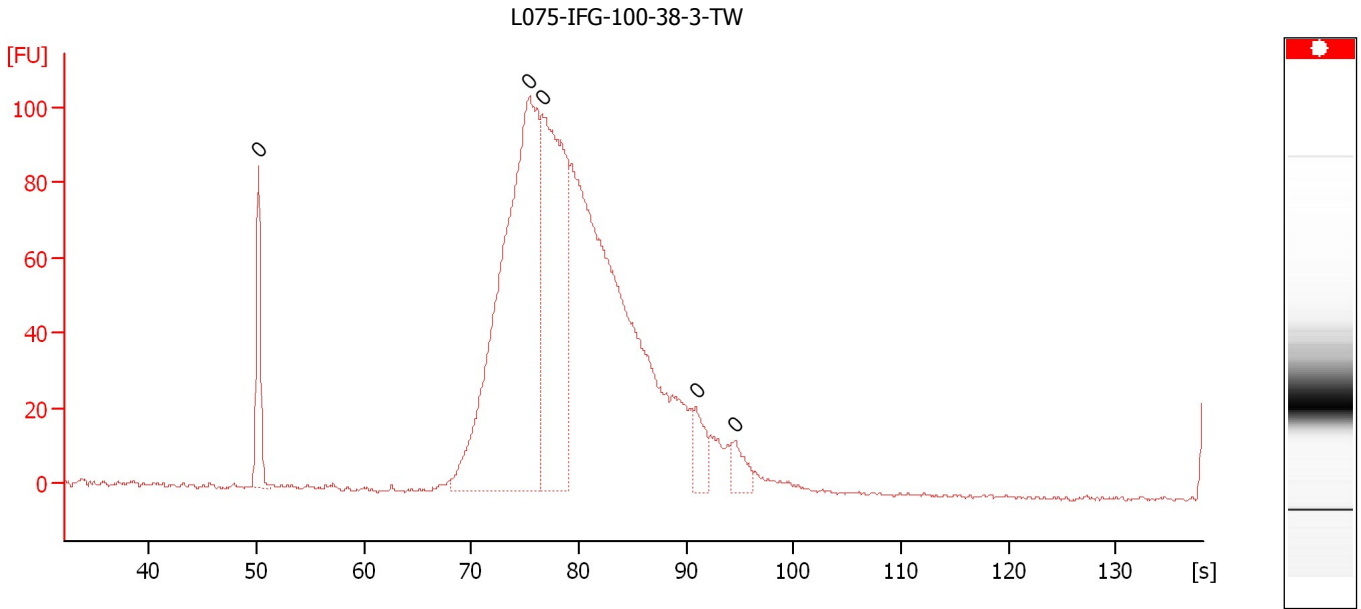
Peak table for sample 1 : L073-GWR-100-245-1-OW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.90
2	0	0.00	0.0		75.00
3	0	0.00	0.0		77.25
4	0	0.00	0.0		78.15
5	0	0.00	0.0		84.70
6	0	0.00	0.0		88.55
7	0	0.00	0.0		89.10
8	0	0.00	0.0		90.50
9	0	0.00	0.0		92.25
10	0	0.00	0.0		94.20
11	0	0.00	0.0		99.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : L075-IFG-100-38-3-TW

Number of peaks found: 0 Noise: 0.4

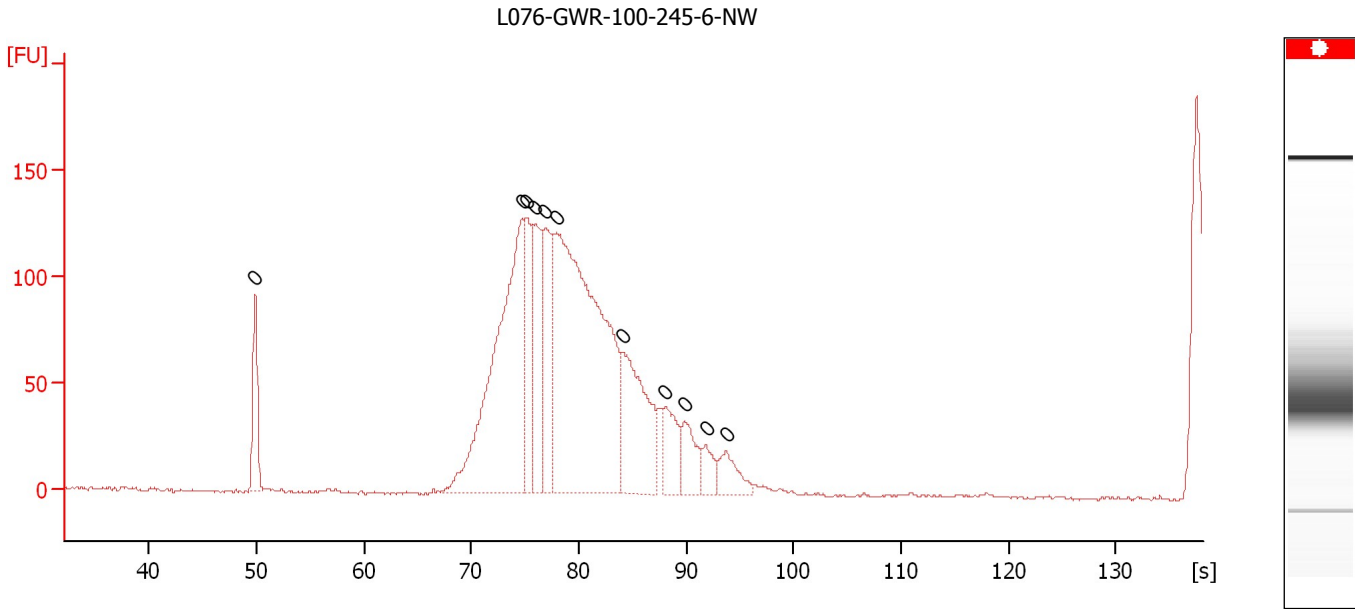
Peak table for sample 2 : L075-IFG-100-38-3-TW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.15
2	0	0.00	0.0		75.40
3	0	0.00	0.0		76.55
4	0	0.00	0.0		90.90
5	0	0.00	0.0		94.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : L076-GWR-100-245-6-NW

Number of peaks found: 0 Noise: 0.5

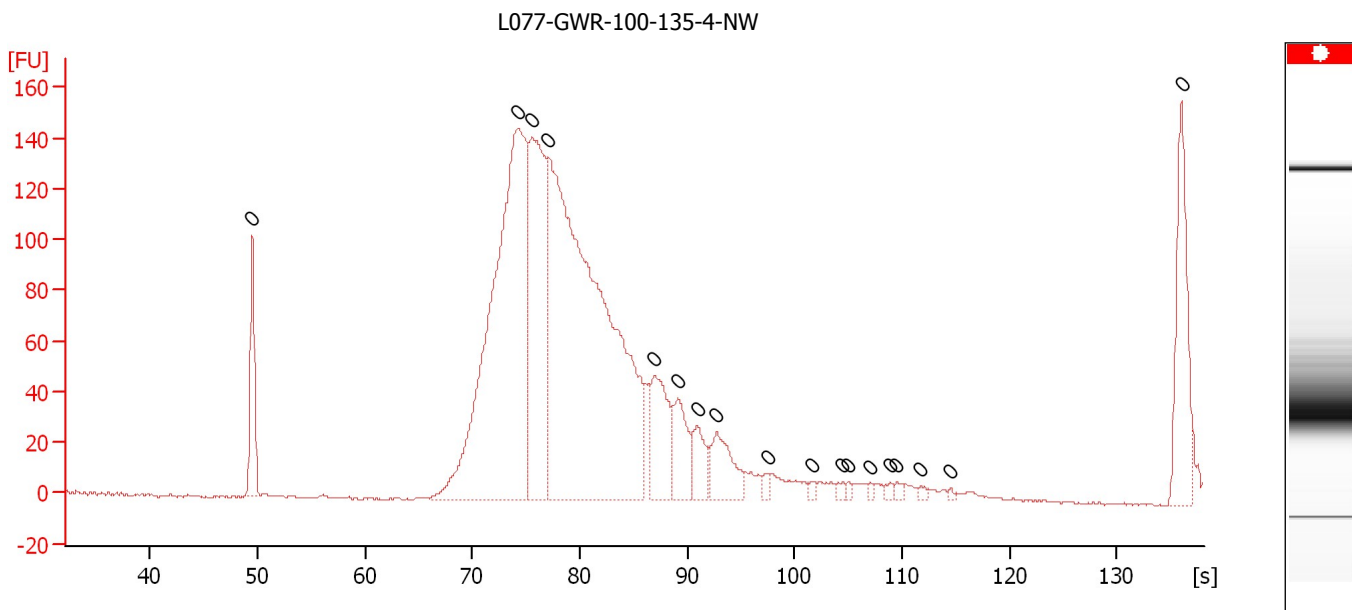
Peak table for sample 3 : L076-GWR-100-245-6-NW

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		74.75
3	0	0.00	0.0		75.10
4	0	0.00	0.0		75.95
5	0	0.00	0.0		76.85
6	0	0.00	0.0		77.85
7	0	0.00	0.0		84.05
8	0	0.00	0.0		88.05
9	0	0.00	0.0		89.85
10	0	0.00	0.0		91.85
11	0	0.00	0.0		93.75

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : L077-GWR-100-135-4-NW

Number of peaks found: 0 Noise: 0.4

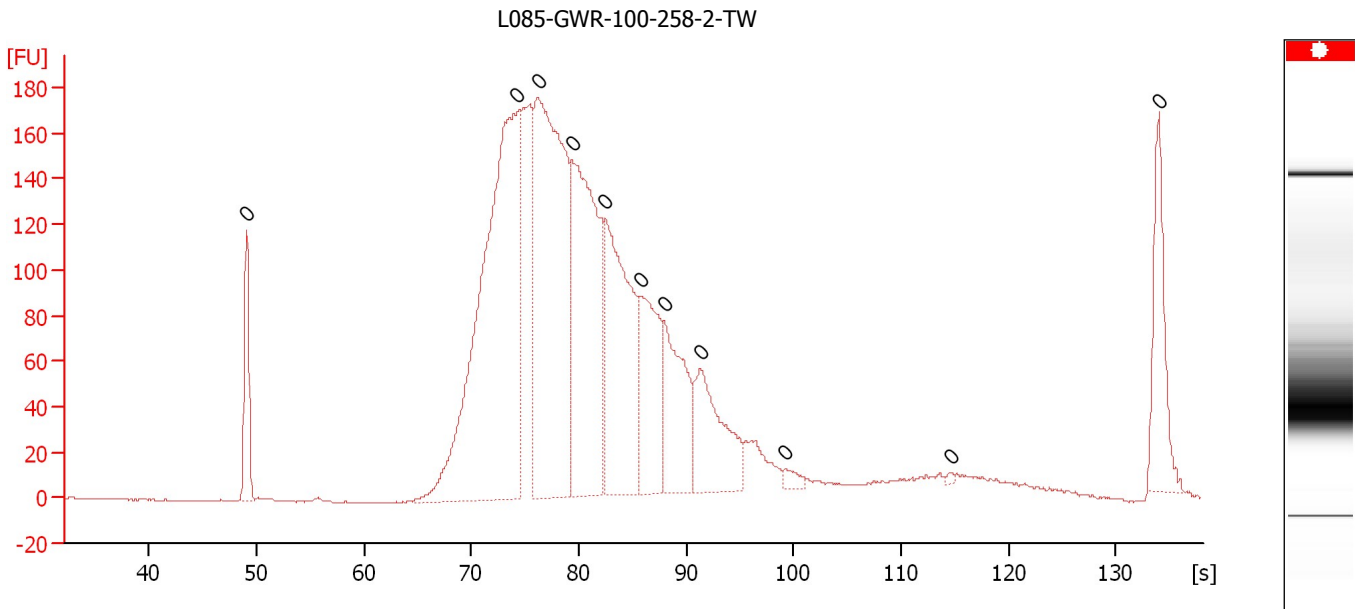
Peak table for sample 4 : L077-GWR-100-135-4-NW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.50
2	0	0.00	0.0		74.25
3	0	0.00	0.0		75.60
4	0	0.00	0.0		77.10
5	0	0.00	0.0		86.95
6	0	0.00	0.0		89.10
7	0	0.00	0.0		90.90
8	0	0.00	0.0		92.70
9	0	0.00	0.0		97.55
10	0	0.00	0.0		101.60
11	0	0.00	0.0		104.50
12	0	0.00	0.0		105.00
13	0	0.00	0.0		107.00
14	0	0.00	0.0		108.95
15	0	0.00	0.0		109.50
16	0	0.00	0.0		111.70
17	0	0.00	0.0		114.55
18	0	0.00	0.0		136.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : L085-GWR-100-258-2-TW

Number of peaks found: 0 Noise: 0.3

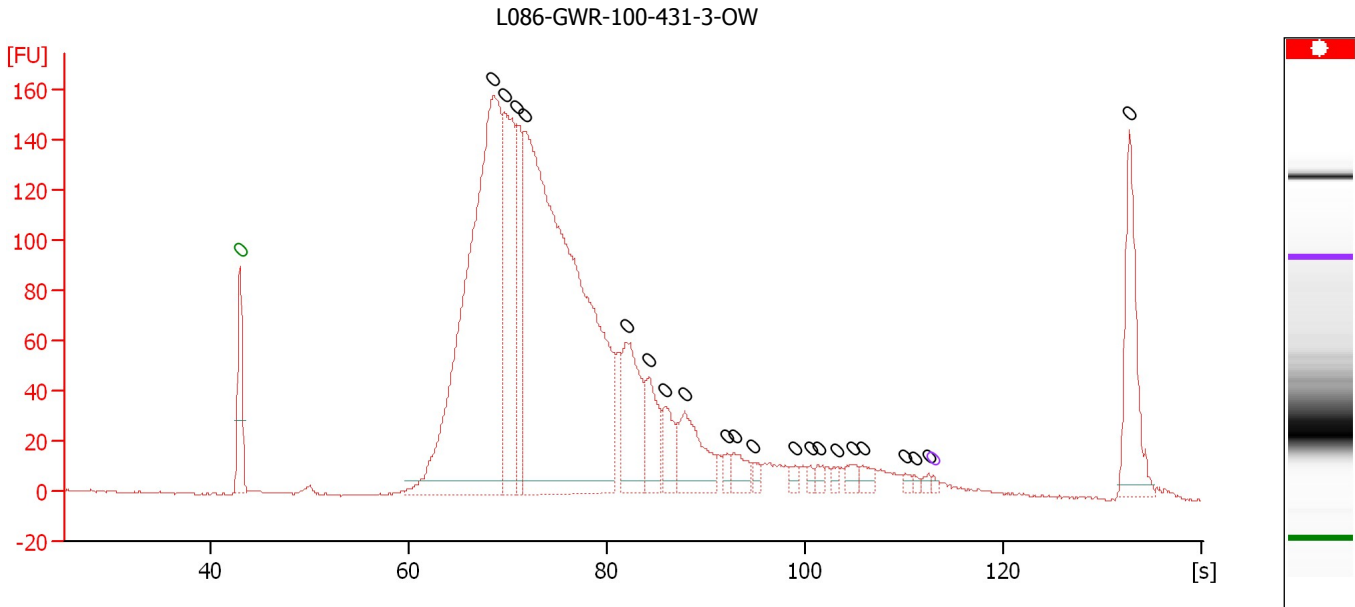
Peak table for sample 5 : L085-GWR-100-258-2-TW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.05
2	0	0.00	0.0		74.25
3	0	0.00	0.0		76.20
4	0	0.00	0.0		79.35
5	0	0.00	0.0		82.50
6	0	0.00	0.0		85.85
7	0	0.00	0.0		87.95
8	0	0.00	0.0		91.30
9	0	0.00	0.0		99.15
10	0	0.00	0.0		114.65
11	0	0.00	0.0		133.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : L086-GWR-100-431-3-OW

Number of peaks found: 21 Noise: 0.2

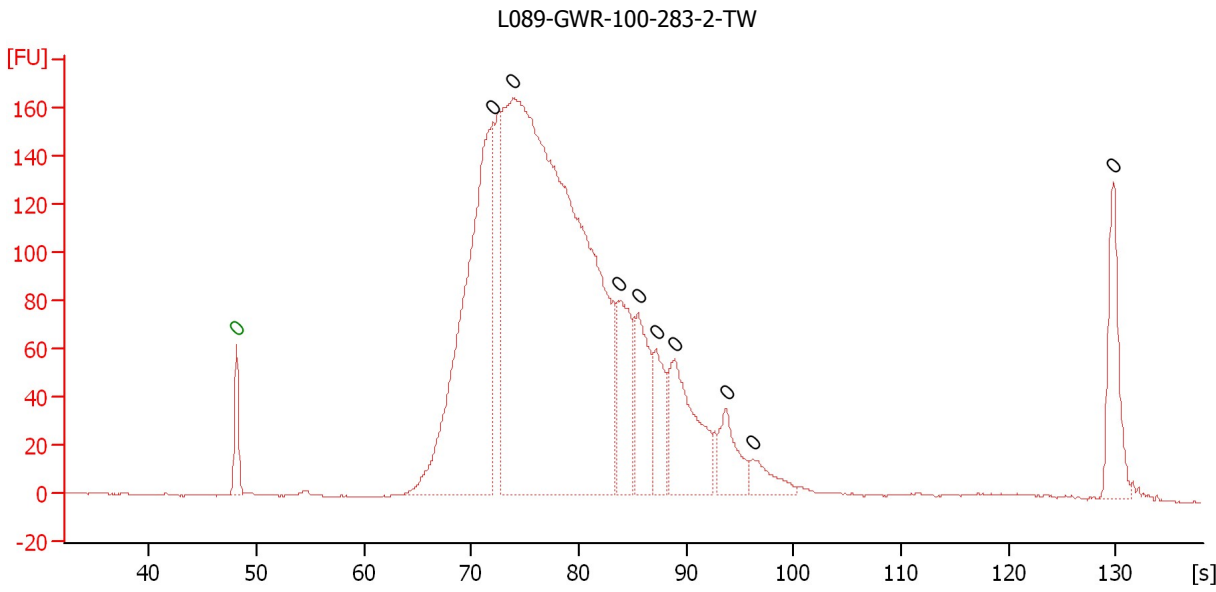
Peak table for sample 6 : L086-GWR-100-431-3-OW

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		68.57
3	0	0.00	0.0		69.66
4	0	0.00	0.0		70.90
5	0	0.00	0.0		71.77
6	0	0.00	0.0		81.96
7	0	0.00	0.0		84.23
8	0	0.00	0.0		85.91
9	0	0.00	0.0		87.86
10	0	0.00	0.0		92.20
11	0	0.00	0.0		92.85
12	0	0.00	0.0		94.80
13	0	0.00	0.0		99.02
14	0	0.00	0.0		100.54
15	0	0.00	0.0		101.41
16	0	0.00	0.0		103.19
17	0	0.00	0.0		104.76
18	0	0.00	0.0		105.79
19	0	0.00	0.0		110.13
20	0	0.00	0.0		111.05
21	0	0.00	0.0		112.46
22	0	0.00	0.0	Upper Marker	113.00
23	0	0.00	0.0		132.72

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : L089-GWR-100-283-2-TW

Number of peaks found: 9 Noise: 0.3

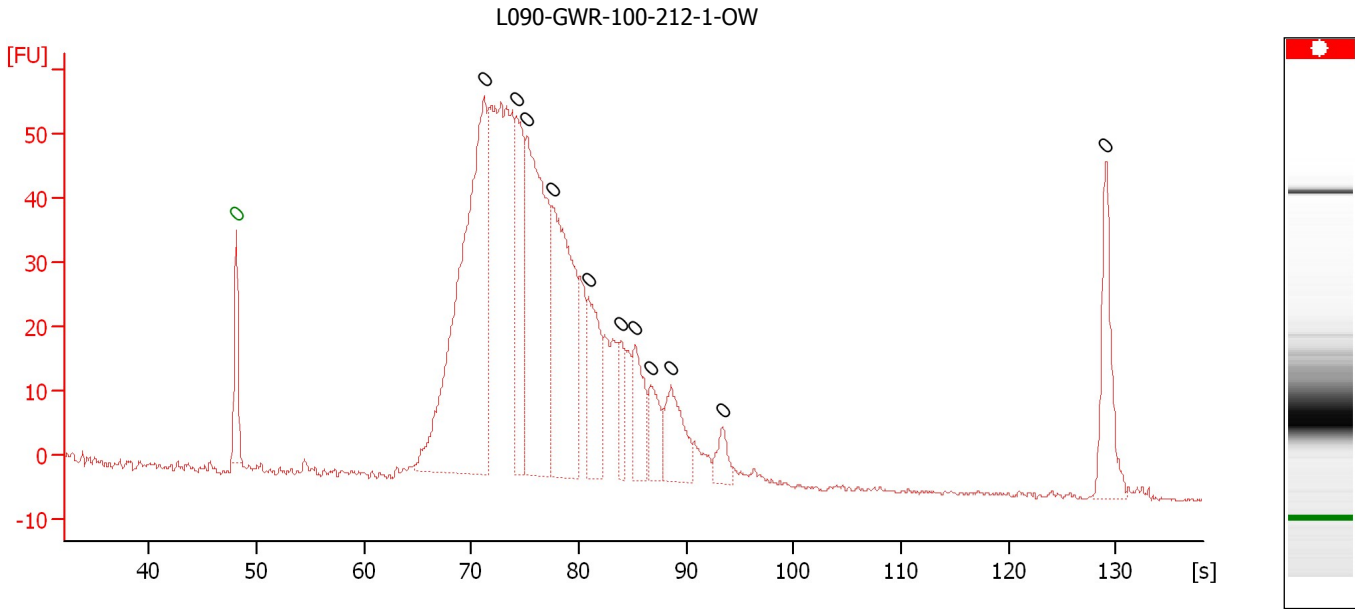
Peak table for sample 7 : L089-GWR-100-283-2-TW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.15
2	0	0.00	0.0		72.00
3	0	0.00	0.0		73.85
4	0	0.00	0.0		83.65
5	0	0.00	0.0		85.50
6	0	0.00	0.0		87.20
7	0	0.00	0.0		88.90
8	0	0.00	0.0		93.70
9	0	0.00	0.0		96.20
10	0	0.00	0.0		129.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : L090-GWR-100-212-1-OW

Number of peaks found: 11 Noise: 0.3

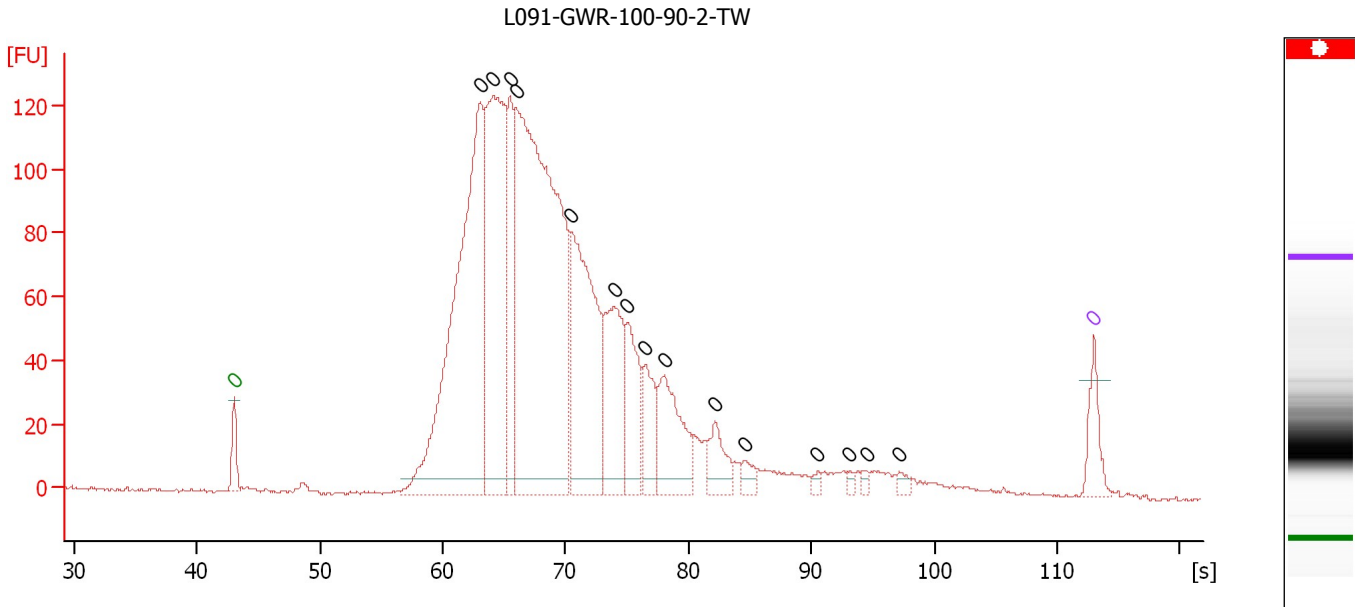
Peak table for sample 8 : L090-GWR-100-212-1-OW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.10
2	0	0.00	0.0		71.20
3	0	0.00	0.0		74.20
4	0	0.00	0.0		75.20
5	0	0.00	0.0		77.55
6	0	0.00	0.0		80.90
7	0	0.00	0.0		83.90
8	0	0.00	0.0		85.30
9	0	0.00	0.0		86.65
10	0	0.00	0.0		88.60
11	0	0.00	0.0		93.40
12	0	0.00	0.0		129.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : L091-GWR-100-90-2-TW

Number of peaks found: 15 Noise: 0.5

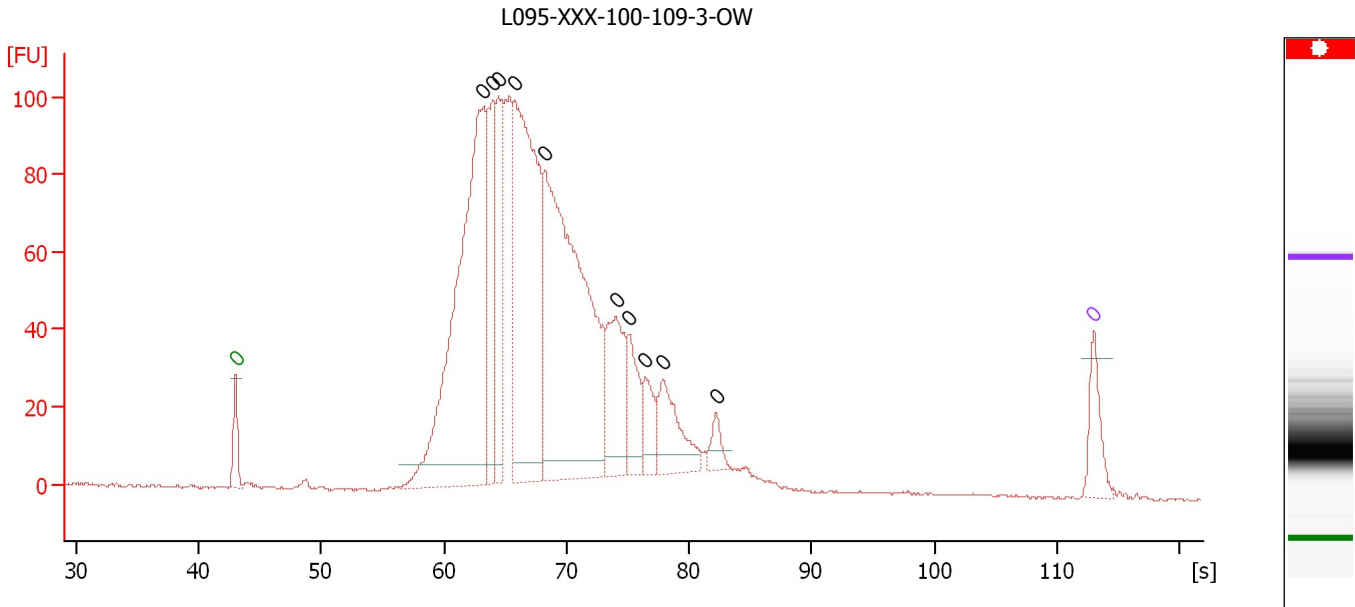
Peak table for sample 9 : L091-GWR-100-90-2-TW

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		63.07
3	0	0.00	0.0		64.12
4	0	0.00	0.0		65.47
5	0	0.00	0.0		66.00
6	0	0.00	0.0		70.46
7	0	0.00	0.0		73.96
8	0	0.00	0.0		75.05
9	0	0.00	0.0		76.49
10	0	0.00	0.0		78.02
11	0	0.00	0.0		82.18
12	0	0.00	0.0		84.62
13	0	0.00	0.0		90.53
14	0	0.00	0.0		93.11
15	0	0.00	0.0		94.46
16	0	0.00	0.0		97.17
17	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : L095-XXX-100-109-3-OW

Number of peaks found: 10 Noise: 0.3

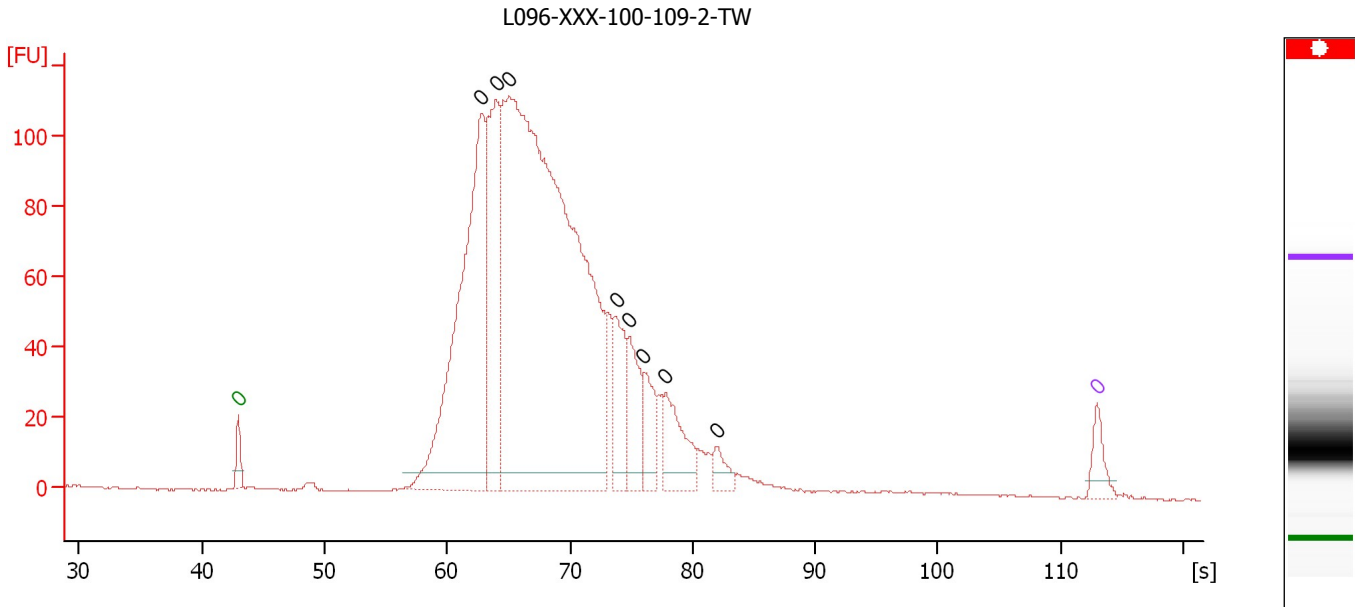
Peak table for sample 10 : L095-XXX-100-109-3-OW

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		63.19
3	0	0.00	0.0		64.03
4	0	0.00	0.0		64.46
5	0	0.00	0.0		65.73
6	0	0.00	0.0		68.23
7	0	0.00	0.0		74.01
8	0	0.00	0.0		75.07
9	0	0.00	0.0		76.38
10	0	0.00	0.0		77.87
11	0	0.00	0.0		82.21
12	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : L096-XXX-100-109-2-TW

Number of peaks found: 8 Noise: 0.2

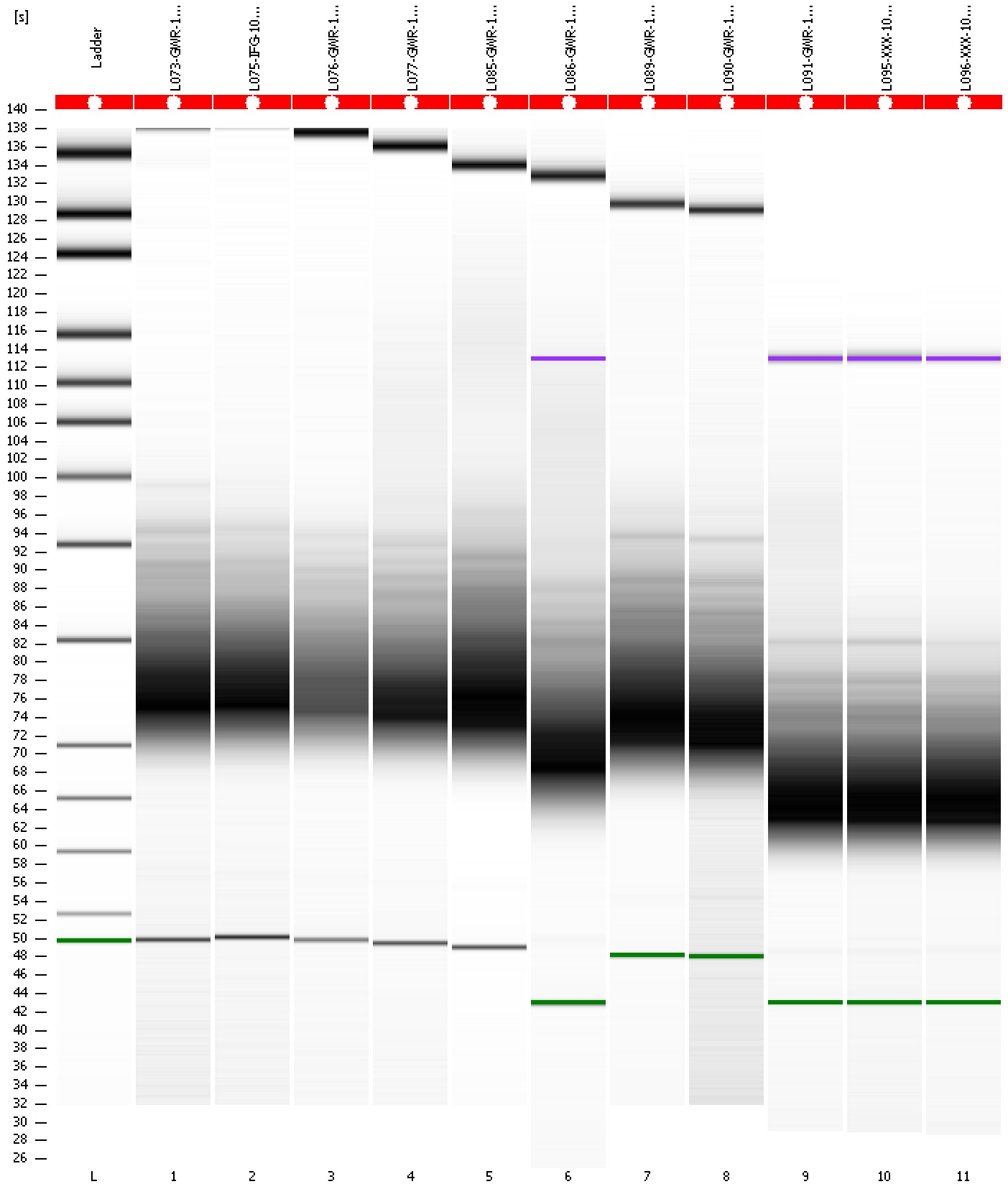
Peak table for sample 11 : L096-XXX-100-109-2-TW

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		62.82
3	0	0.00	0.0		64.00
4	0	0.00	0.0		65.05
5	0	0.00	0.0		73.80
6	0	0.00	0.0		74.81
7	0	0.00	0.0		76.03
8	0	0.00	0.0		77.82
9	0	0.00	0.0		82.03
10	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
Modified: 3/27/2019 12:13:07 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-27\2019-03-27_002.xad

Created: 3/27/2019 11:26:31 AM
 Modified: 3/27/2019 12:13:07 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		3/27/2019 12:07:46 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\2019-03-27\2019-03-27_002.xad)		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2019 11:26:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1