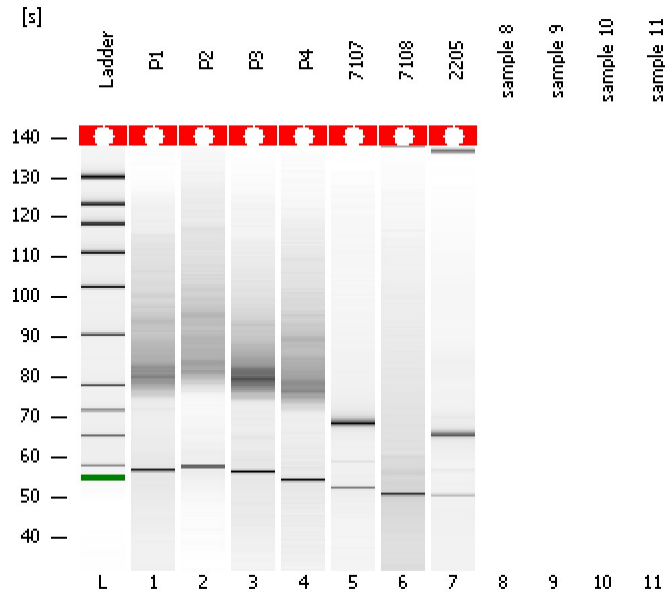


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Electrophoresis File Run Summary



Instrument Information:

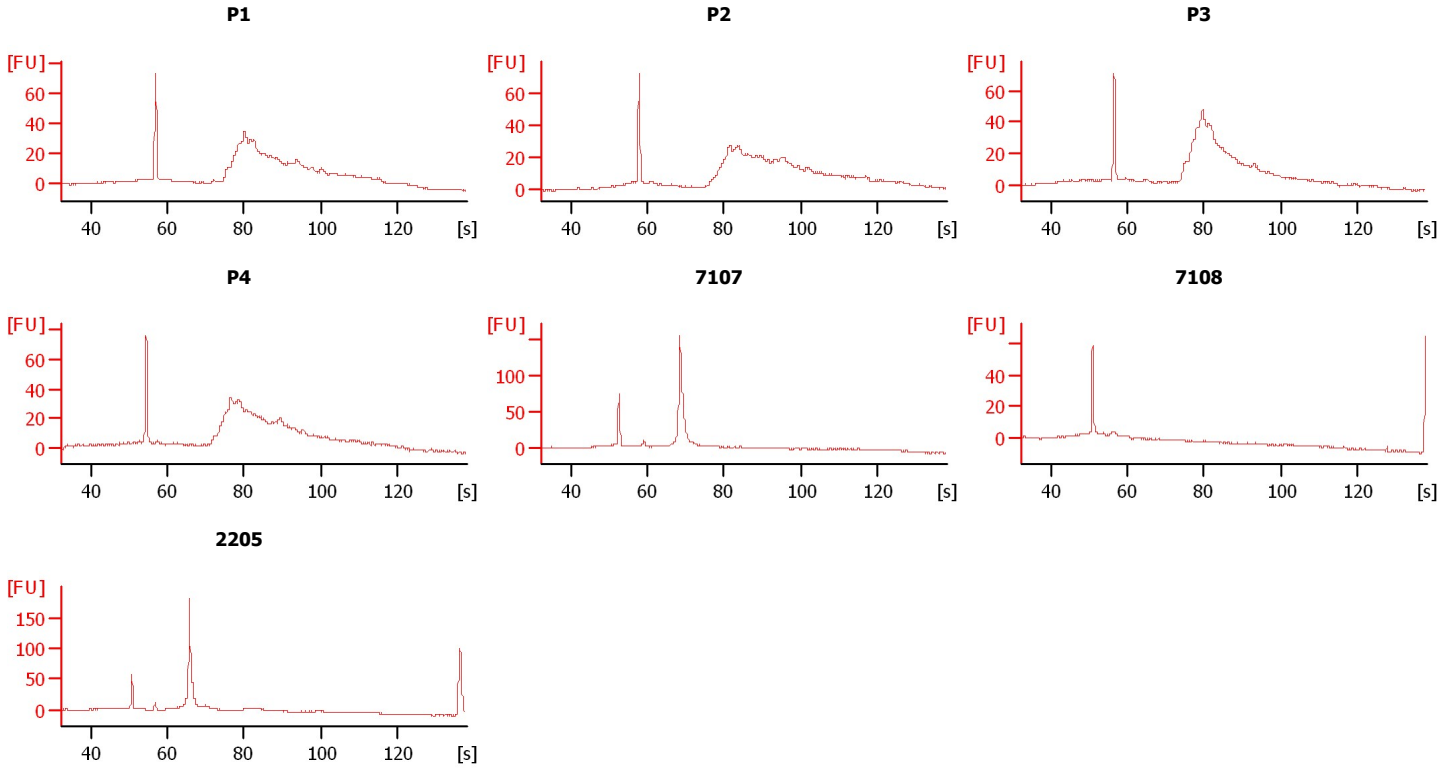
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P1		<input type="checkbox"/>	✓			
P2		<input type="checkbox"/>	✓			
P3		<input type="checkbox"/>	✓			
P4		<input type="checkbox"/>	✓			
7107		<input type="checkbox"/>	✓			
7108		<input type="checkbox"/>	✓			
2205		<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:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 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

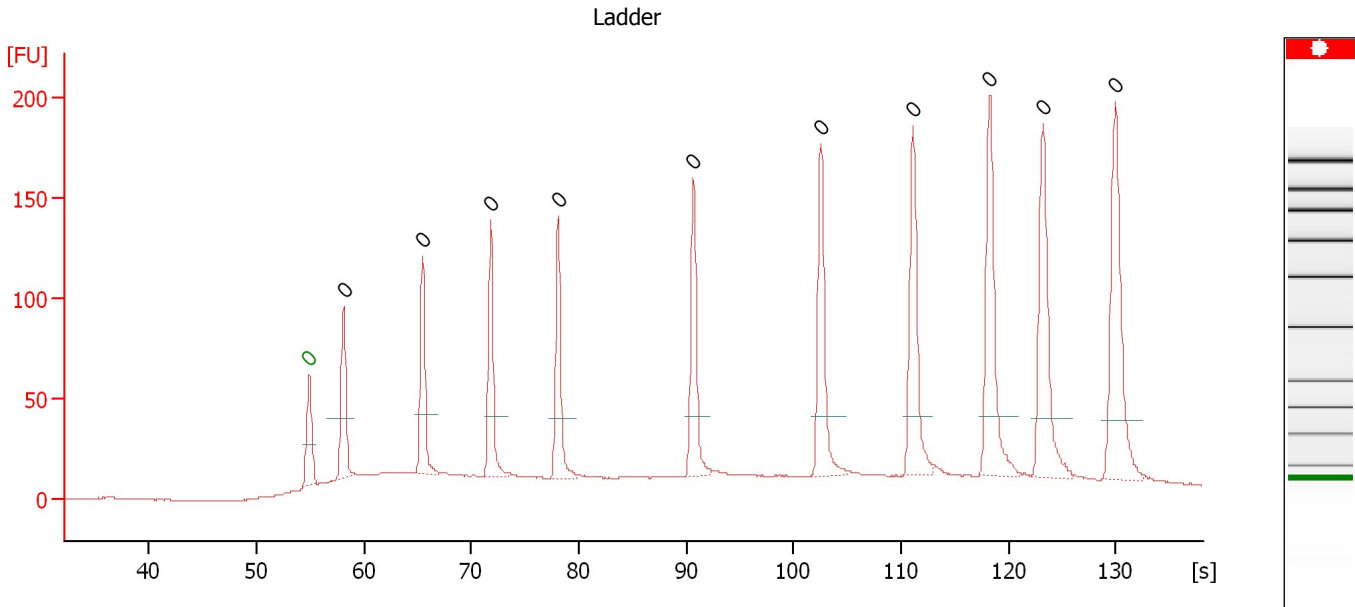
Ladder

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:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

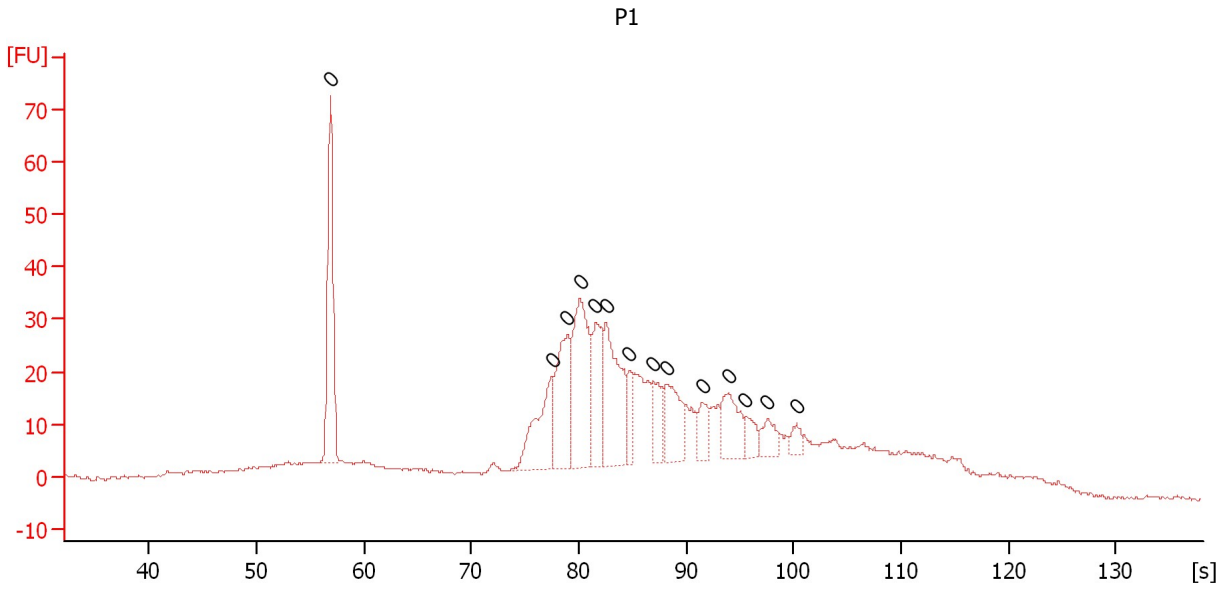
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	54.90
2	0	0.00	0.0	Ladder Peak	58.10
3	0	0.00	0.0	Ladder Peak	65.45
4	0	0.00	0.0	Ladder Peak	71.80
5	0	0.00	0.0	Ladder Peak	78.10
6	0	0.00	0.0	Ladder Peak	90.70
7	0	0.00	0.0	Ladder Peak	102.55
8	0	0.00	0.0	Ladder Peak	111.10
9	0	0.00	0.0	Ladder Peak	118.25
10	0	0.00	0.0	Ladder Peak	123.25
11	0	0.00	0.0	Ladder Peak	129.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P1

Number of peaks found: 0 Noise: 0.3

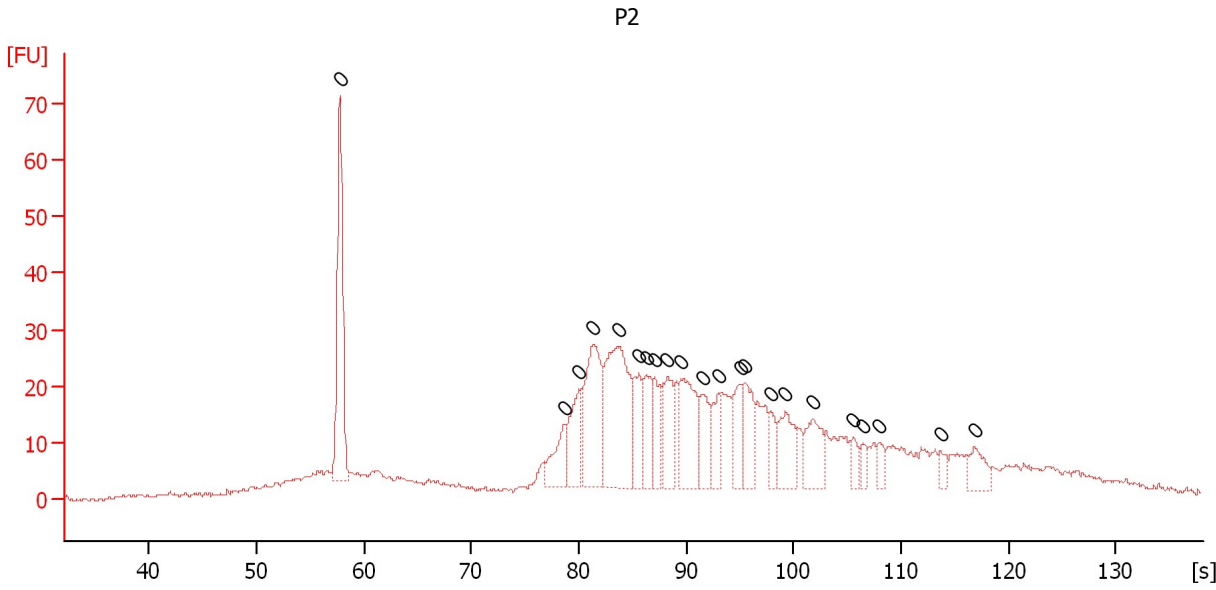
Peak table for sample 1 : P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		56.90
2	0	0.00	0.0		77.50
3	0	0.00	0.0		78.95
4	0	0.00	0.0		80.10
5	0	0.00	0.0		81.55
6	0	0.00	0.0		82.55
7	0	0.00	0.0		84.70
8	0	0.00	0.0		86.90
9	0	0.00	0.0		88.15
10	0	0.00	0.0		91.50
11	0	0.00	0.0		93.95
12	0	0.00	0.0		95.55
13	0	0.00	0.0		97.60
14	0	0.00	0.0		100.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P2

Number of peaks found: 0 Noise: 0.4

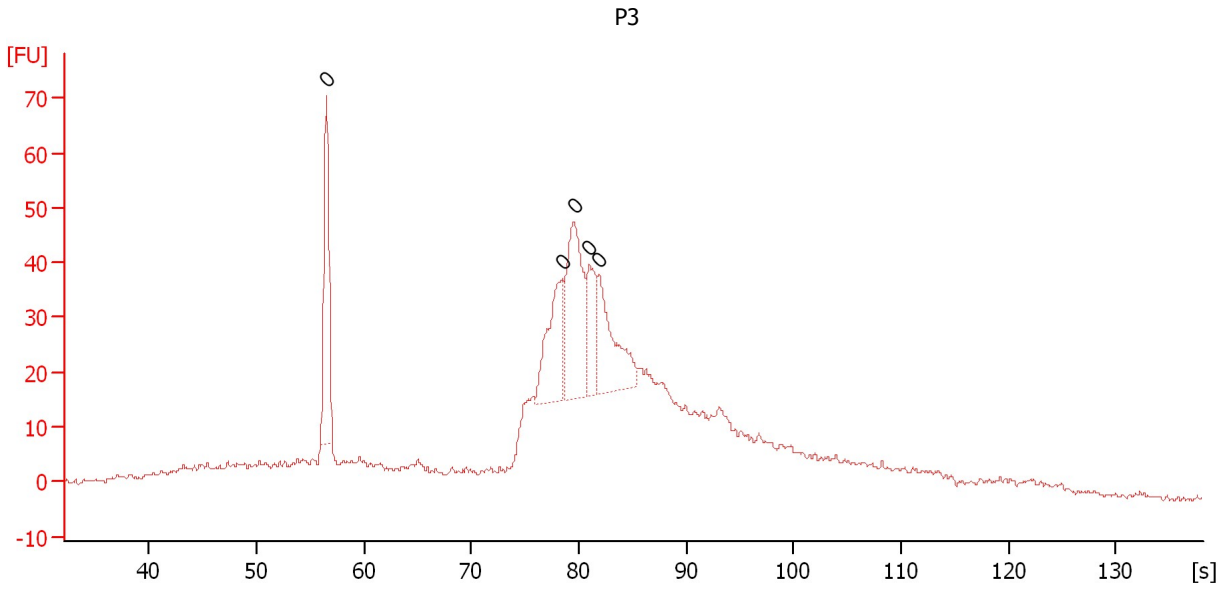
Peak table for sample 2 : P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		57.75
2	0	0.00	0.0		78.60
3	0	0.00	0.0		80.00
4	0	0.00	0.0		81.35
5	0	0.00	0.0		83.80
6	0	0.00	0.0		85.60
7	0	0.00	0.0		86.30
8	0	0.00	0.0		87.05
9	0	0.00	0.0		88.25
10	0	0.00	0.0		89.50
11	0	0.00	0.0		91.55
12	0	0.00	0.0		92.95
13	0	0.00	0.0		95.00
14	0	0.00	0.0		95.50
15	0	0.00	0.0		97.85
16	0	0.00	0.0		99.20
17	0	0.00	0.0		101.75
18	0	0.00	0.0		105.55
19	0	0.00	0.0		106.45
20	0	0.00	0.0		108.00
21	0	0.00	0.0		113.65
22	0	0.00	0.0		116.85

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P3

Number of peaks found: 0 Noise: 0.5

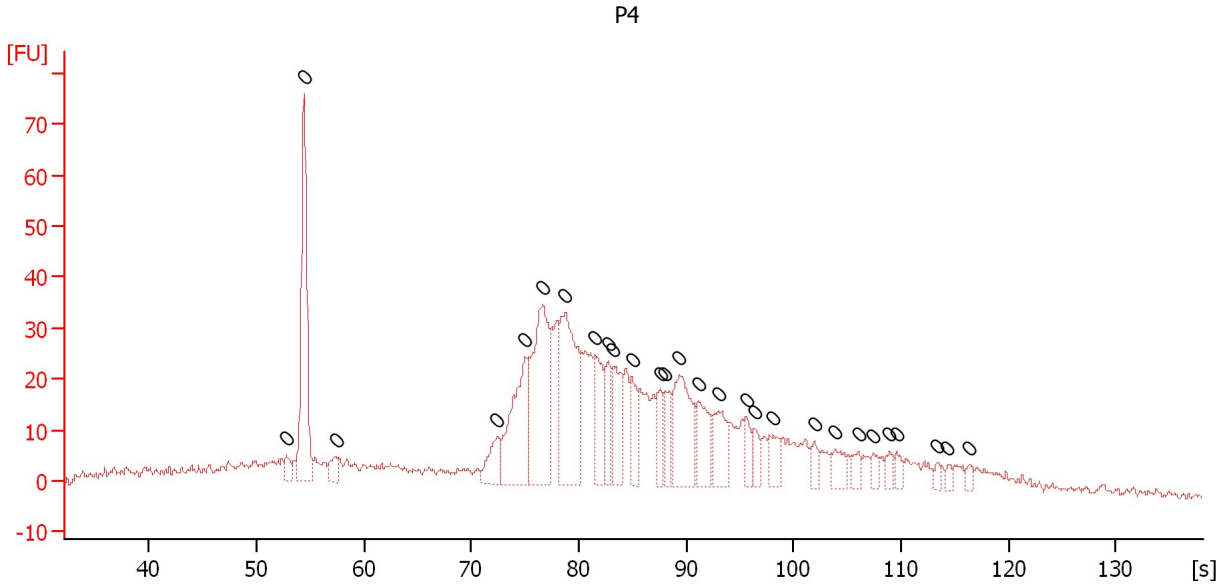
Peak table for sample 3 : P3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		56.50
2	0	0.00	0.0		78.50
3	0	0.00	0.0		79.55
4	0	0.00	0.0		81.00
5	0	0.00	0.0		81.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : P4

Number of peaks found: 0 Noise: 0.6

Peak table for sample 4 : P4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.80
2	0	0.00	0.0		54.45
3	0	0.00	0.0		57.35
4	0	0.00	0.0		72.40
5	0	0.00	0.0		75.05
6	0	0.00	0.0		76.60
7	0	0.00	0.0		78.75
8	0	0.00	0.0		81.55
9	0	0.00	0.0		82.75
10	0	0.00	0.0		83.25
11	0	0.00	0.0		84.95
12	0	0.00	0.0		87.55
13	0	0.00	0.0		88.05
14	0	0.00	0.0		89.40
15	0	0.00	0.0		91.15
16	0	0.00	0.0		93.00
17	0	0.00	0.0		95.60
18	0	0.00	0.0		96.40
19	0	0.00	0.0		98.15
20	0	0.00	0.0		101.90
21	0	0.00	0.0		103.90
22	0	0.00	0.0		106.00
23	0	0.00	0.0		107.35
24	0	0.00	0.0		108.95
25	0	0.00	0.0		109.60
26	0	0.00	0.0		113.40
27	0	0.00	0.0		114.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

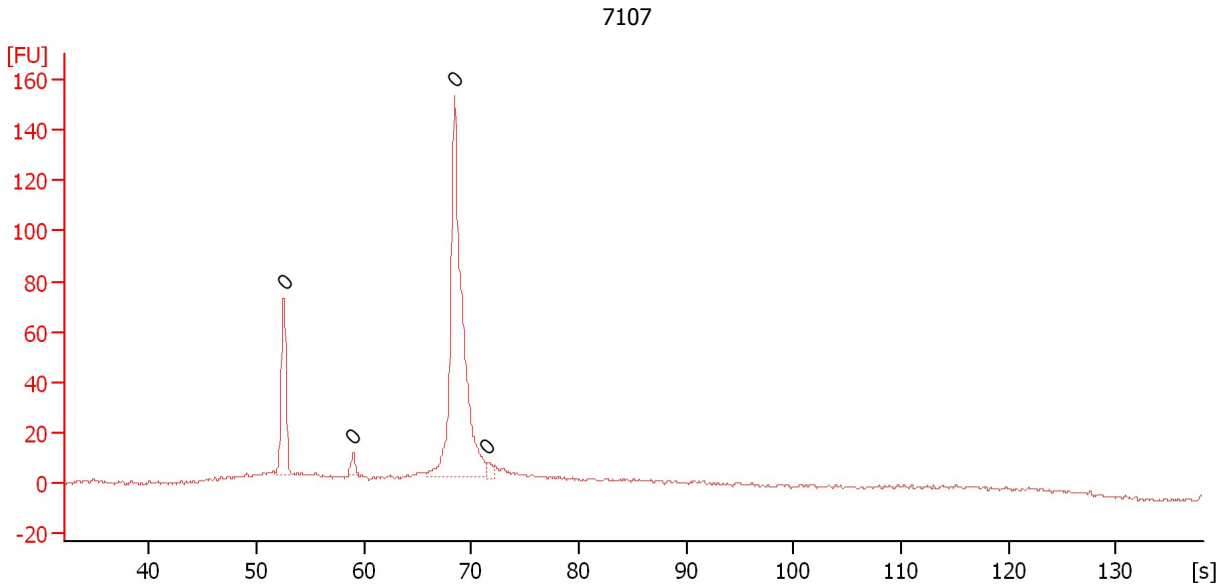
Electropherogram Summary Continued ...**... Peak table for sample 4 : P4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		116.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 7107

Number of peaks found: 0 Noise: 0.6

Peak table for sample 5 : 7107

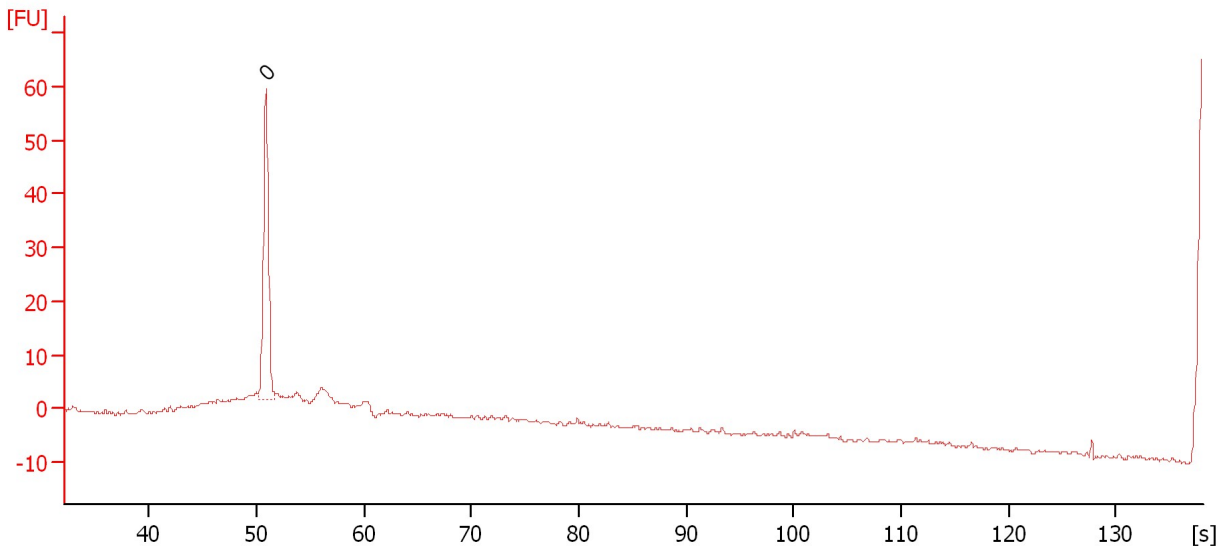
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.55
2	0	0.00	0.0		59.00
3	0	0.00	0.0		68.45
4	0	0.00	0.0		71.50

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...

7108



Overall Results for sample 6 : 7108

Number of peaks found: 0 Noise: 0.3

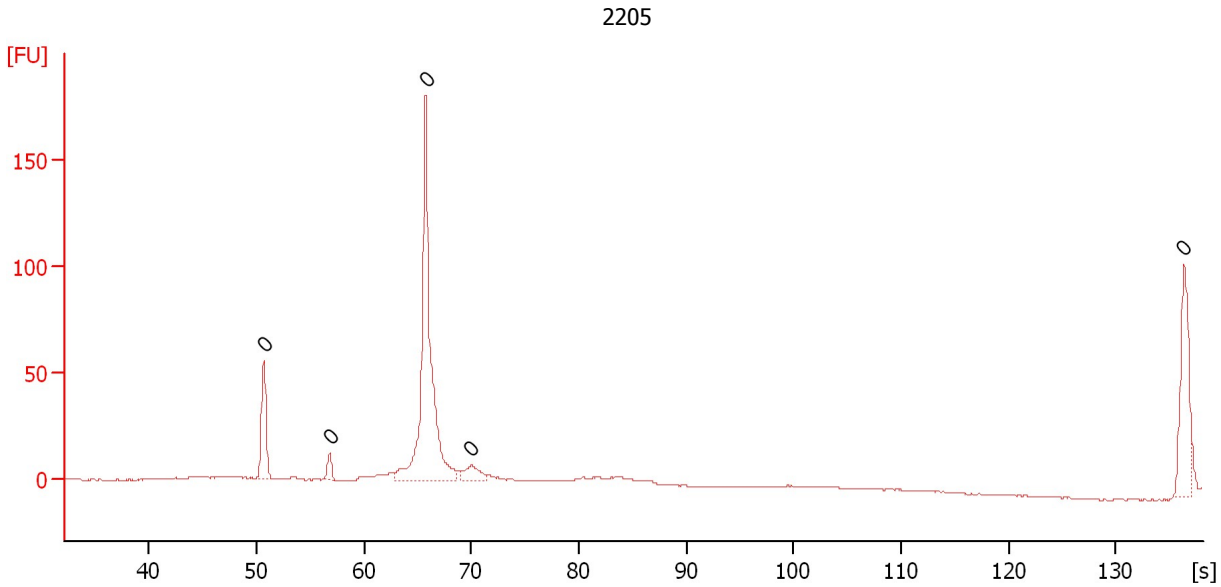
Peak table for sample 6 : 7108

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.90

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2205

Number of peaks found: 0 Noise: 0.2

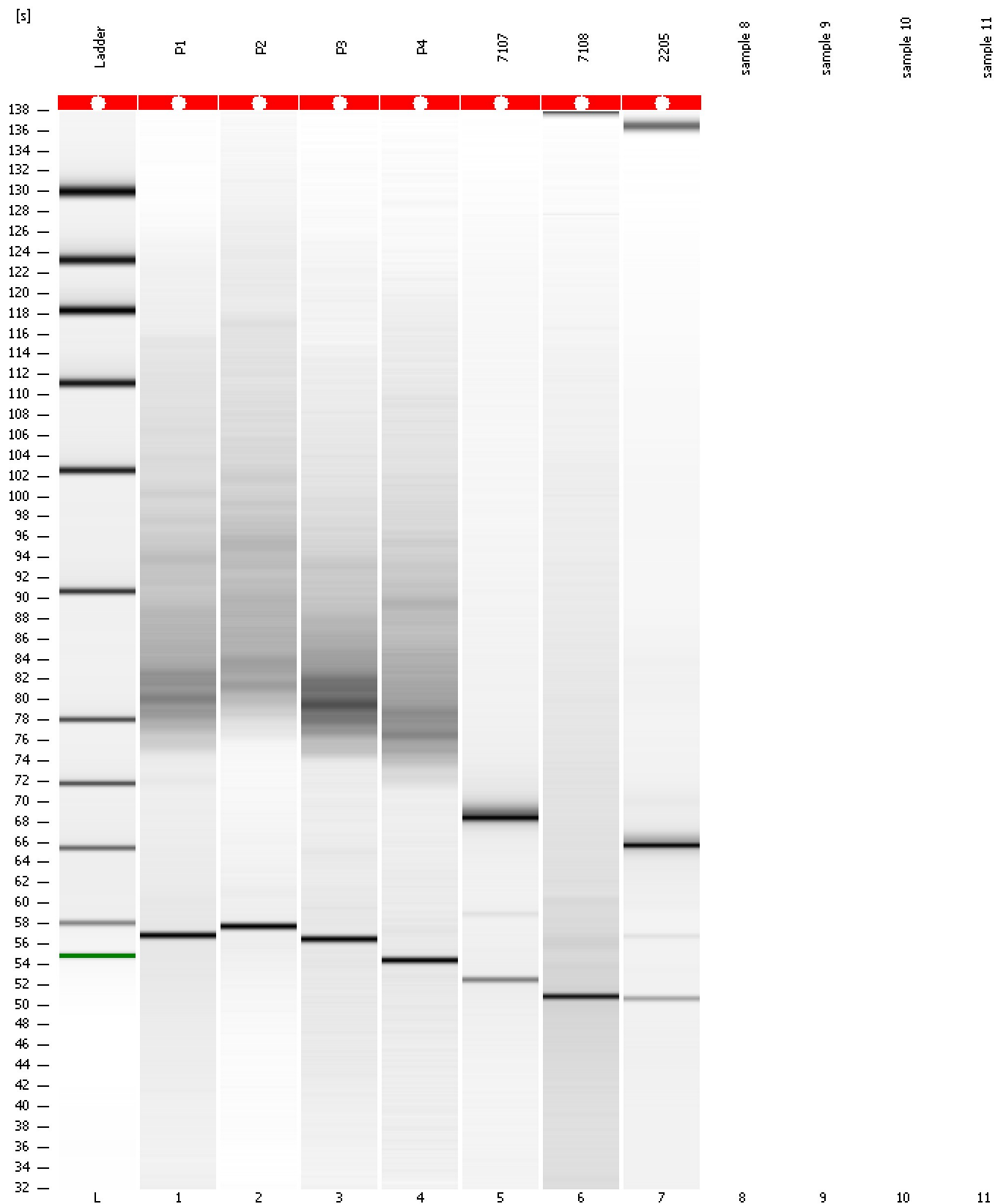
Peak table for sample 7 : 2205

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.70
2	0	0.00	0.0		56.80
3	0	0.00	0.0		65.75
4	0	0.00	0.0		70.00
5	0	0.00	0.0		136.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
Modified: 6/21/2016 10:46:57 AM

Invalid Samples

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:\... bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad

Created: 6/21/2016 10:17:05 AM
 Modified: 6/21/2016 10:46:57 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		6/21/2016 10:46:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-21\2016-06-21_001.xad)		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/21/2016 10:17:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1