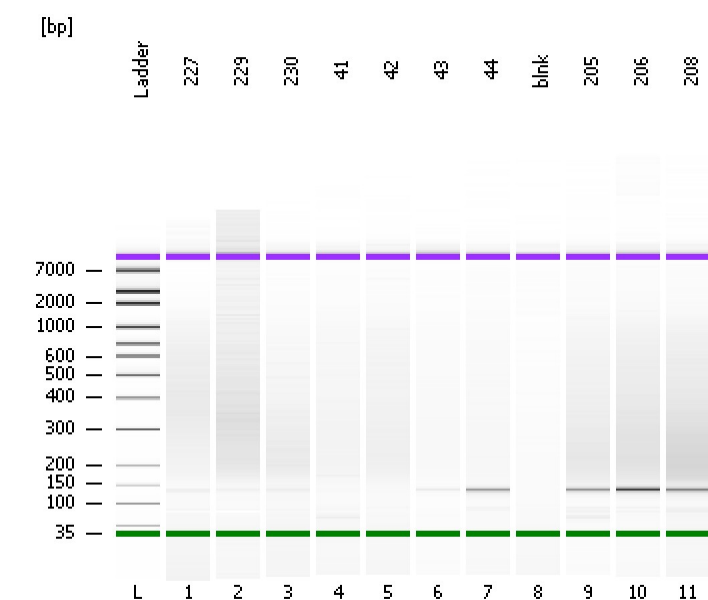


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 PM

Electrophoresis File Run Summary



Instrument Information:

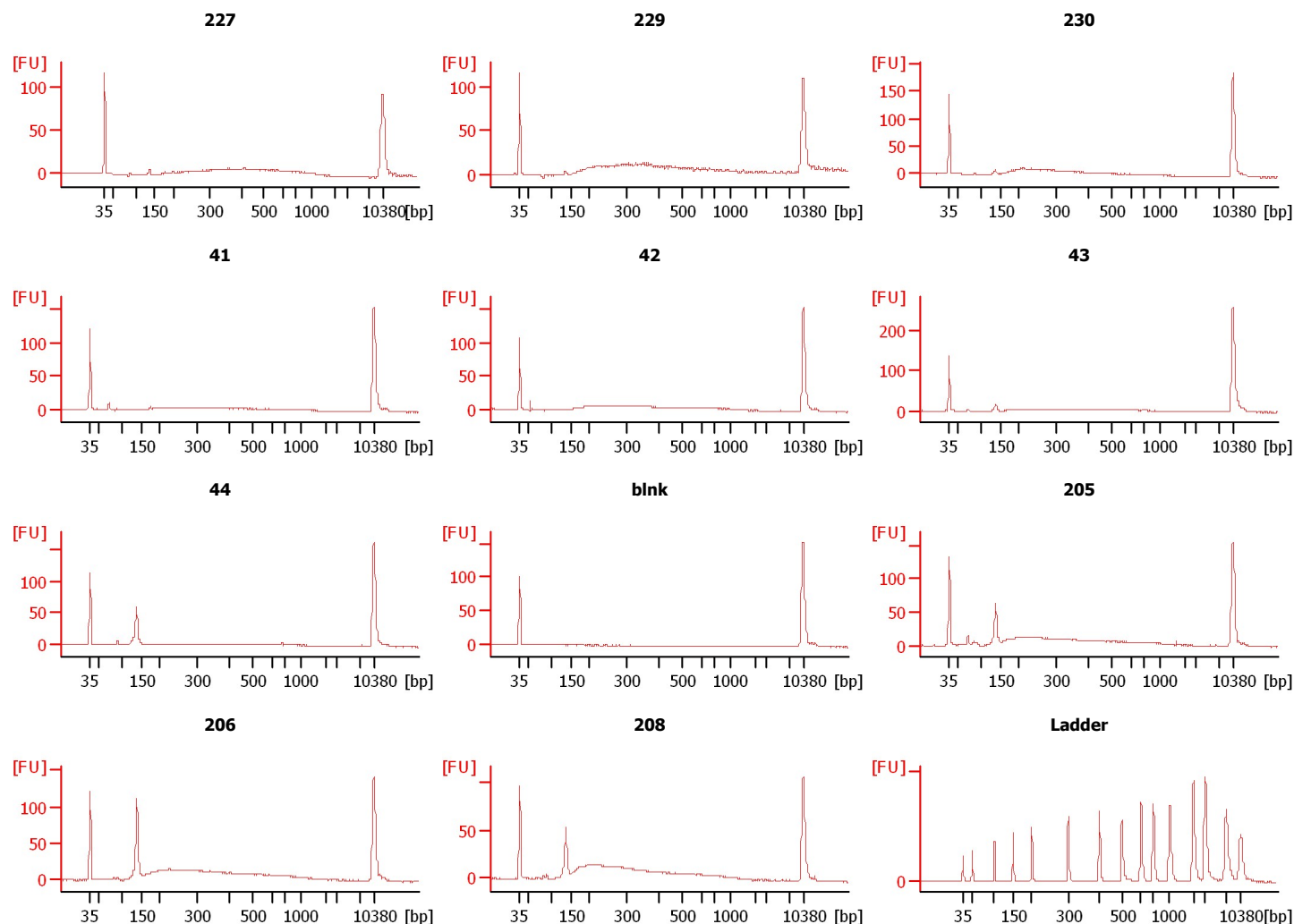
Instrument Name: DE72902486 Firmware: C.01.069
Serial#: DE72902486 Type: G2939A

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: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

Chip Information:

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



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Stat us	Observation	Result Label	Result Color
227		<input type="checkbox"/>	✓			
229		<input type="checkbox"/>	✓			
230		<input type="checkbox"/>	✓			
41		<input type="checkbox"/>	✓			
42		<input type="checkbox"/>	✓			
43		<input type="checkbox"/>	✓			
44		<input type="checkbox"/>	✓			
blnk		<input type="checkbox"/>	✓			
205		<input type="checkbox"/>	✓			
206		<input type="checkbox"/>	✓			
208		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 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

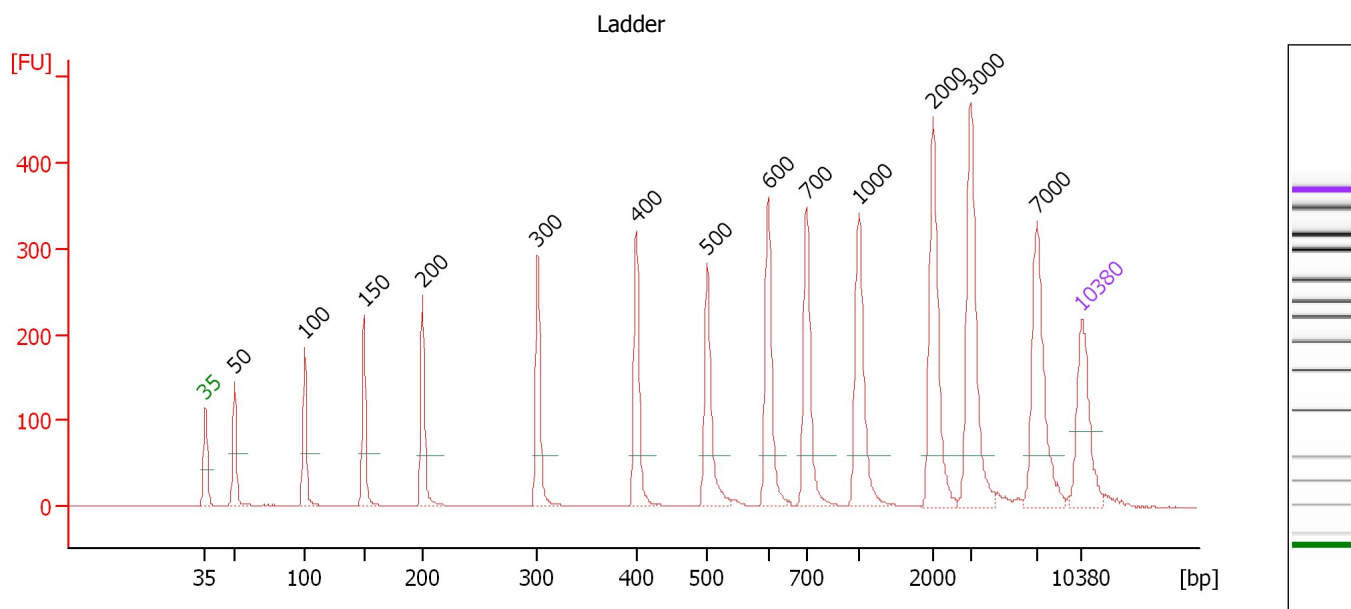
Ladder

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:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

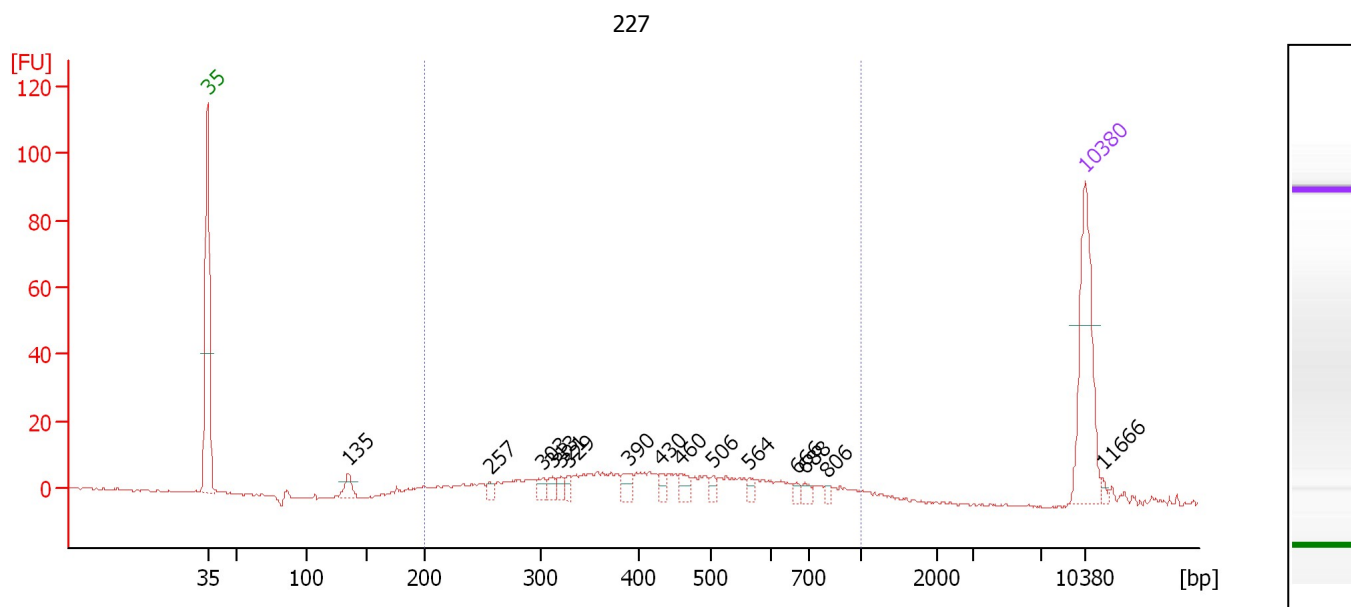
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	└	50	150.00	4,545.5	Ladder Peak
3	└	100	150.00	2,272.7	Ladder Peak
4	└	150	150.00	1,515.2	Ladder Peak
5	└	200	150.00	1,136.4	Ladder Peak
6	└	300	150.00	757.6	Ladder Peak
7	└	400	150.00	568.2	Ladder Peak
8	└	500	150.00	454.5	Ladder Peak
9	└	600	150.00	378.8	Ladder Peak
10	└	700	150.00	324.7	Ladder Peak
11	└	1,000	150.00	227.3	Ladder Peak
12	└	2,000	150.00	113.6	Ladder Peak
13	└	3,000	150.00	75.8	Ladder Peak
14	└	7,000	150.00	32.5	Ladder Peak
15	▶	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 227

Number of peaks found: 15 Corr. Area 1: 212.1
 Noise: 0.3

Peak table for sample 1 : 227

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	135	16.31	183.1	
3	257	5.90	34.7	
4	303	8.99	45.0	
5	313	8.60	41.7	
6	321	6.63	31.3	
7	329	6.83	31.4	
8	390	11.21	43.6	
9	430	7.44	26.2	
10	460	11.05	36.4	
11	506	5.86	17.6	
12	564	5.48	14.7	
13	666	3.88	8.8	
14	688	5.30	11.7	
15	806	3.28	6.2	
16	10,380	75.00	10.9	Upper Marker
17	11,666	0.00	0.0	

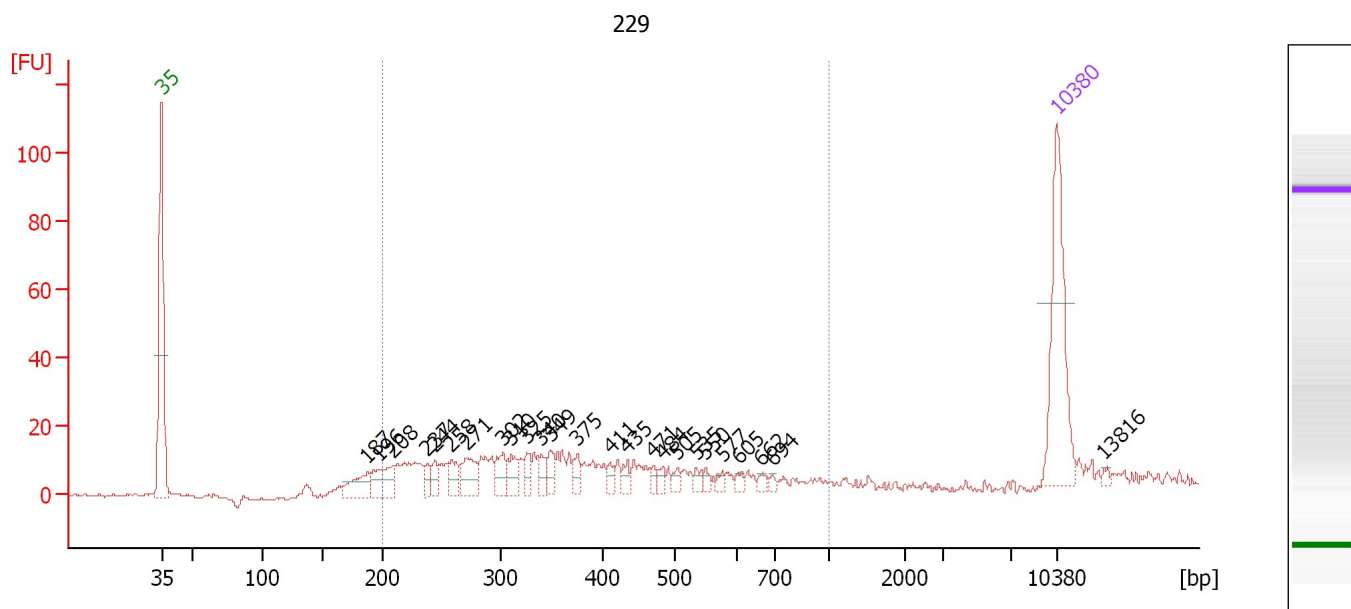
Region table for sample 1 : 227

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	212.1	91	453	35.9	228.22	907.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 229

Number of peaks found: 25 Corr. Area 1: 337.1
 Noise: 0.6

Peak table for sample 2 : 229

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	187	26.17	212.4	
3	196	14.33	110.5	
4	208	16.07	116.9	
5	237	10.47	67.0	
6	244	10.52	65.4	
7	258	14.25	83.7	
8	271	25.10	140.5	
9	302	17.68	88.7	
10	310	14.62	71.5	
11	325	11.04	51.4	
12	340	11.01	49.0	
13	349	11.59	50.3	
14	375	9.37	37.8	
15	411	6.13	22.6	
16	435	7.43	25.9	
17	471	5.08	16.4	
18	484	5.55	17.4	
19	505	5.41	16.2	
20	535	4.85	13.7	
21	550	4.13	11.4	
22	577	3.96	10.4	
23	605	3.87	9.7	
24	662	3.42	7.8	
25	694	2.29	5.0	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : 229**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	13,816	0.00	0.0	

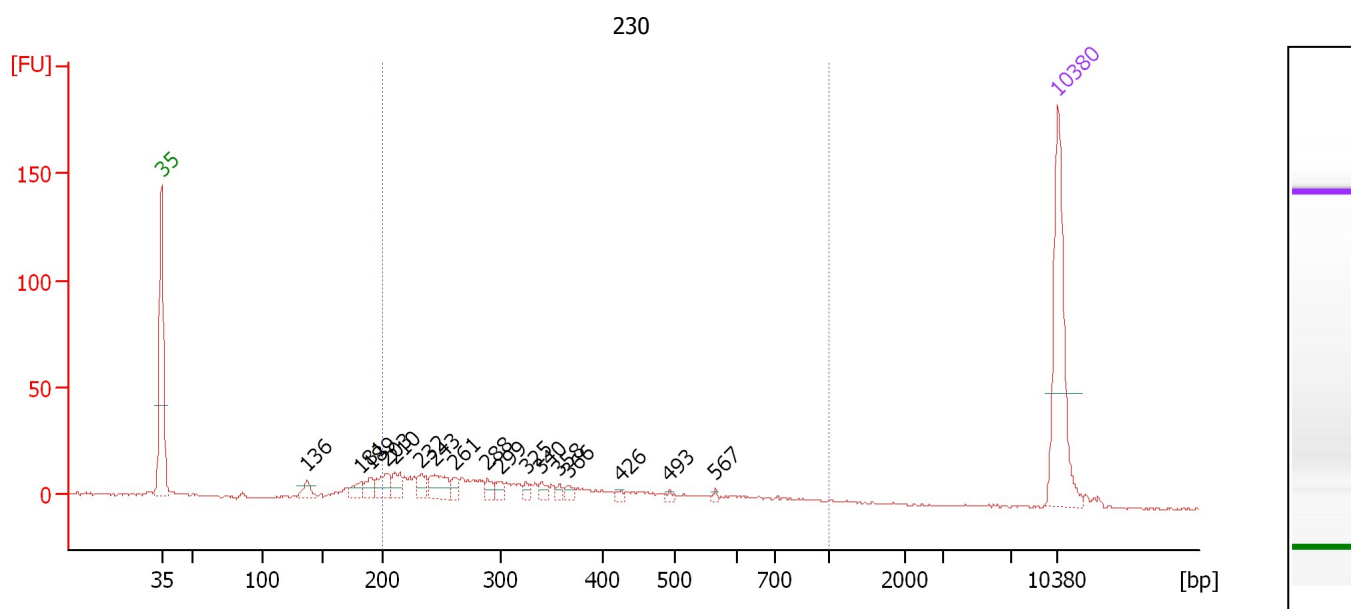
Region table for sample 2 : 229

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	337.1	82	386	39.0	349.27	1,630.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 230

Number of peaks found: 17 Corr. Area 1: 286.4
 Noise: 0.5

Peak table for sample 3 : 230

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	136	10.14	112.7	
3	181	10.65	89.2	
4	189	10.43	83.5	
5	203	19.87	147.9	
6	210	14.24	102.7	
7	232	10.84	70.8	
8	243	22.58	140.5	
9	261	7.60	44.1	
10	288	7.93	41.7	
11	299	6.68	33.9	
12	325	5.07	23.6	
13	340	5.81	25.9	
14	358	3.79	16.1	
15	366	4.61	19.1	
16	426	3.08	11.0	
17	493	2.24	6.9	
18	567	1.93	5.2	
19	10,380	75.00	10.9	Upper Marker

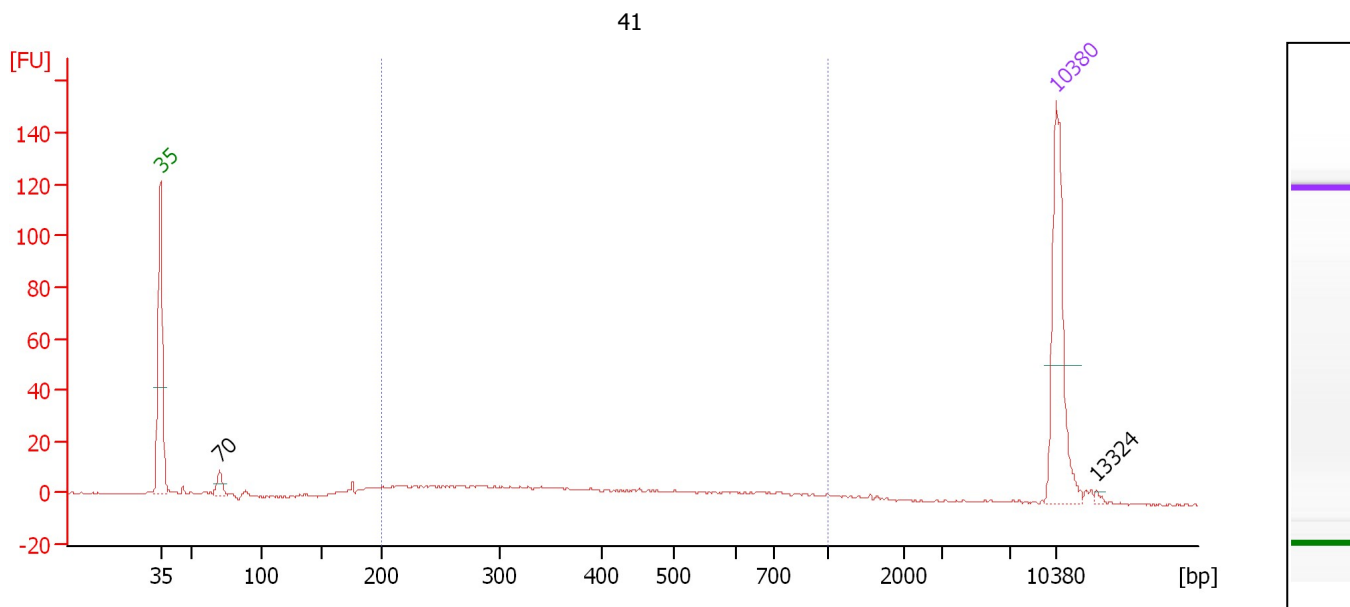
Region table for sample 3 : 230

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	286.4	77	360	42.0	209.21	1,054.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 41

Number of peaks found: 2 Corr. Area 1: 167.1
 Noise: 0.3

Peak table for sample 4 : 41

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	12.99	279.2	
3	10,380	75.00	10.9	Upper Marker
4	13,324	0.00	0.0	

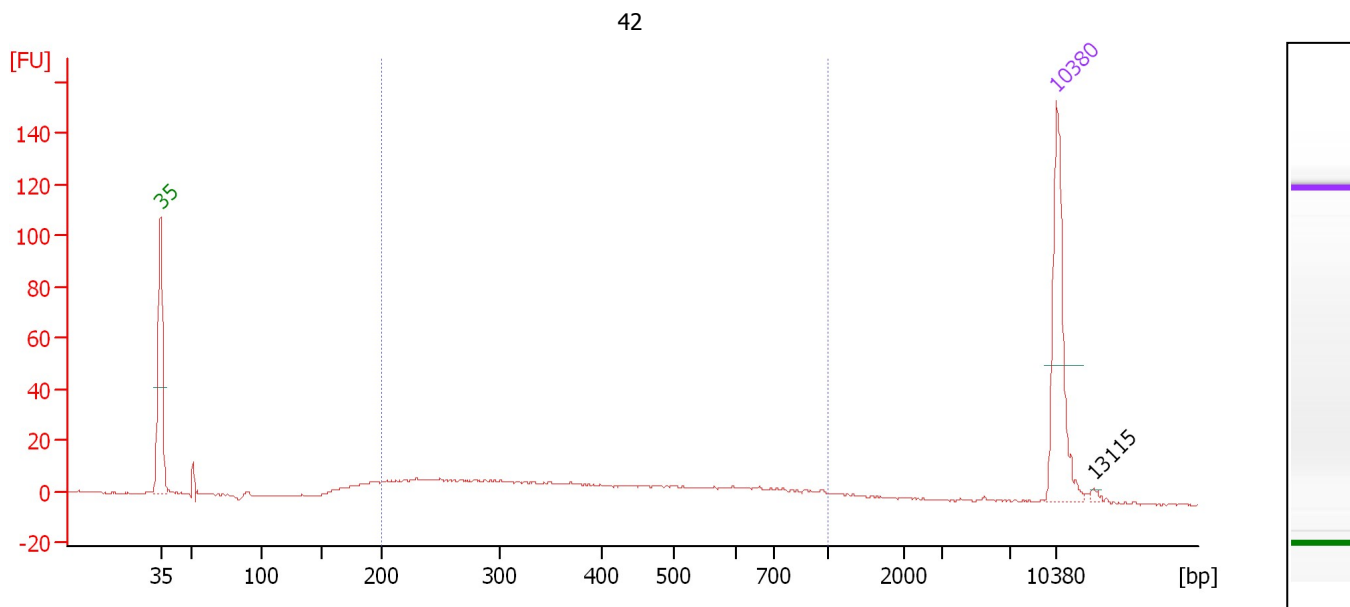
Region table for sample 4 : 41

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	167.1	71	418	43.1	135.09	612.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 42

Number of peaks found: 1 Corr. Area 1: 236.3
 Noise: 0.4

Peak table for sample 5 : 42

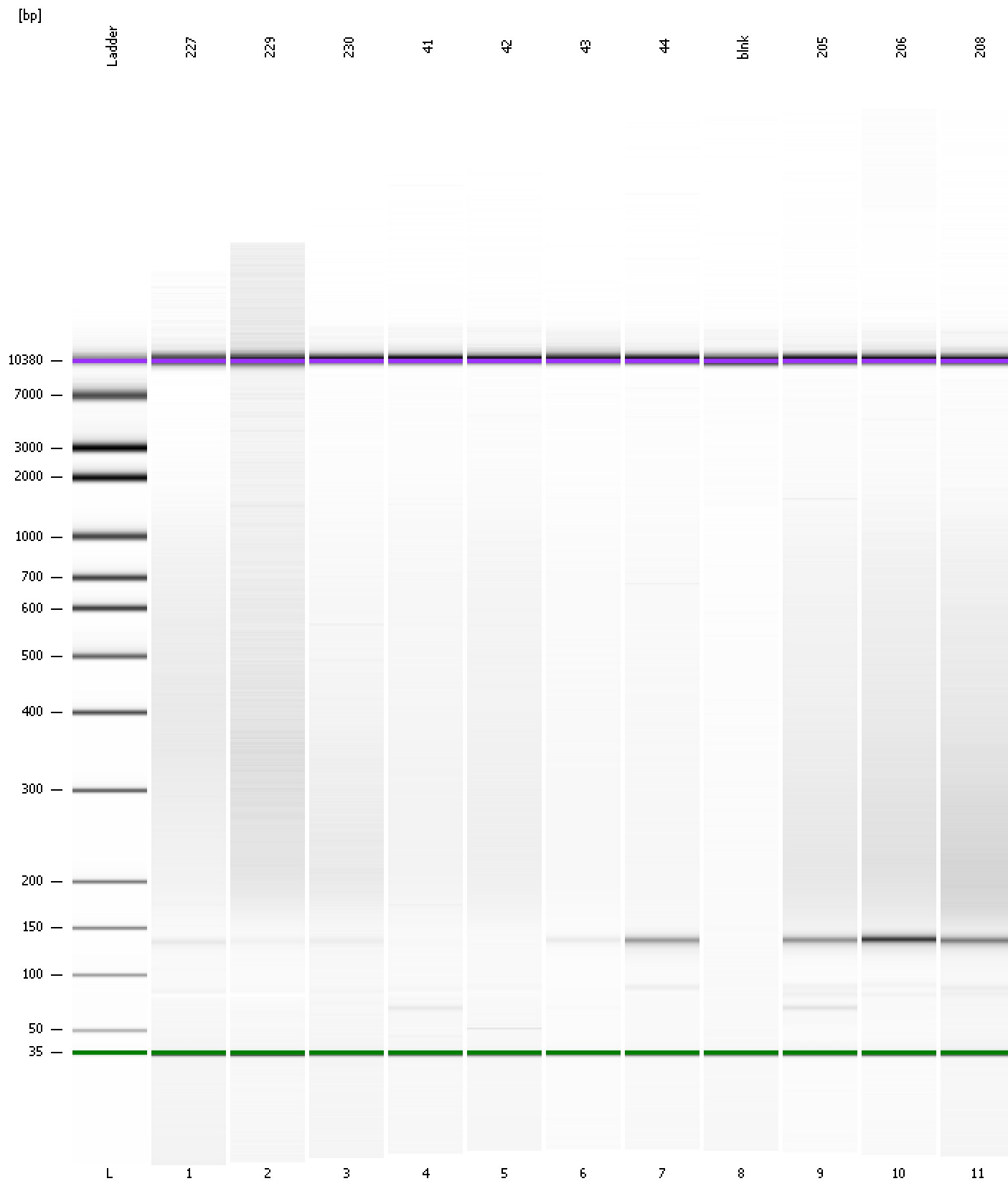
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	13,115	0.00	0.0	

Region table for sample 5 : 42

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	236.3	81	421	43.2	205.14	928.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 PM

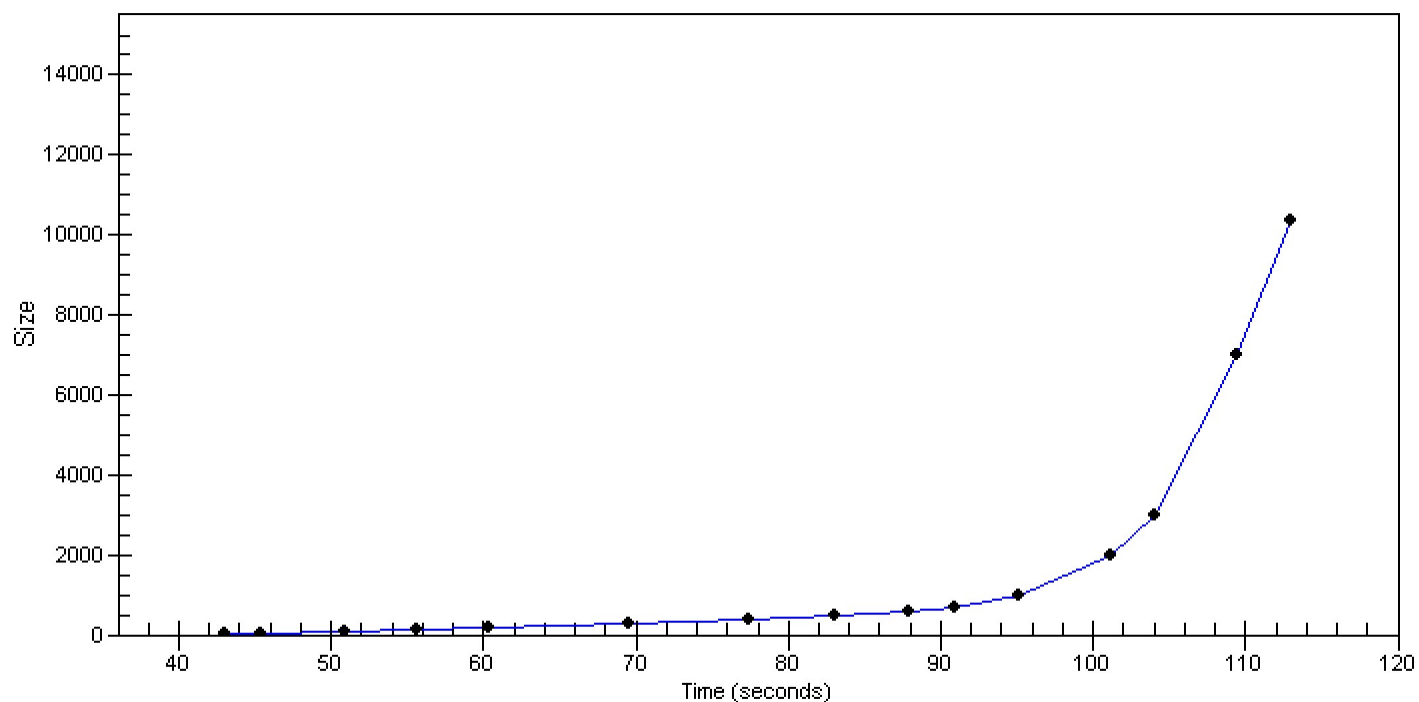
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
Modified: 12/16/2016 9:13:35 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad

Created: 12/16/2016 8:32:13 PM
 Modified: 12/16/2016 9:13:35 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/16/2016 9:13:30 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2016-12-16\2100 expert_High Sensitivity DNA Assay_DE72902486_2016-12-16_20-32-13.xad)		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Product Number : G2939A		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Name :		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Vendor : Agilent Technologies		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Serial# : DE72902486		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Firmware : C.01.069		Instrument	Run		12/16/2016 8:32:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Cartridge : Electrode		Instrument	Run		12/16/2016 8:32:18 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01