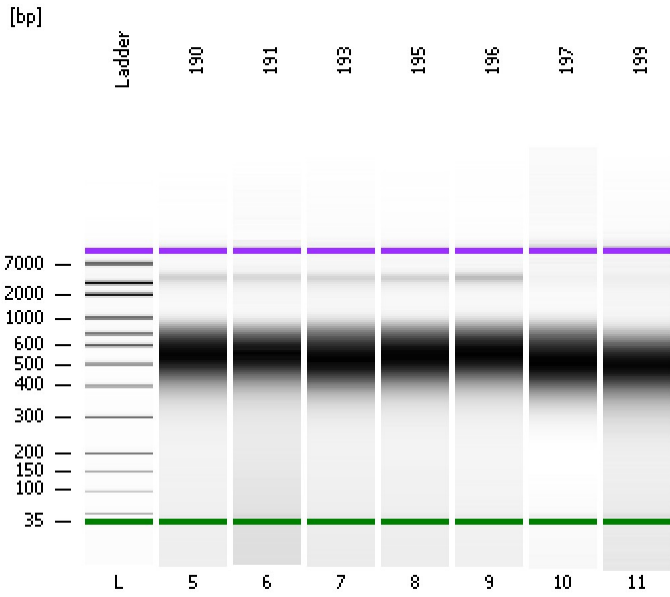


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
Modified: 11/23/2015 2:06:46 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

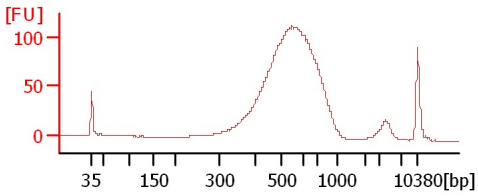
Assay Information:

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

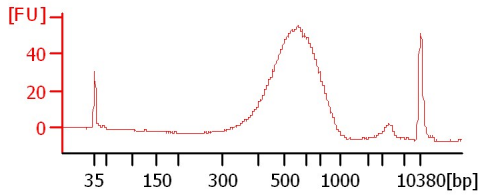
Chip Information:

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

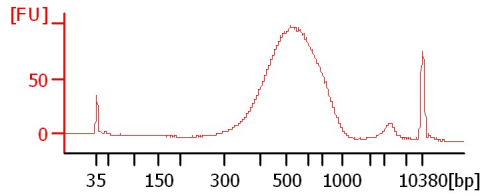
**190**



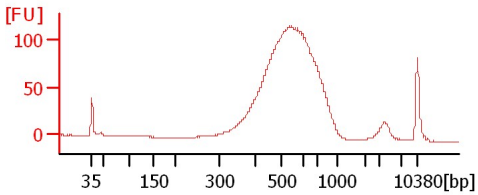
**191**



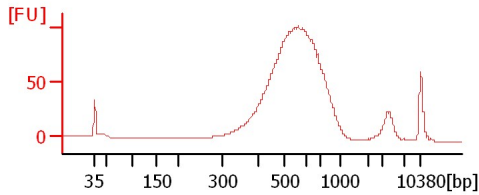
**193**



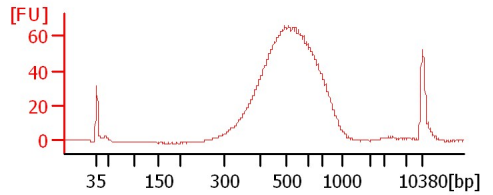
**195**



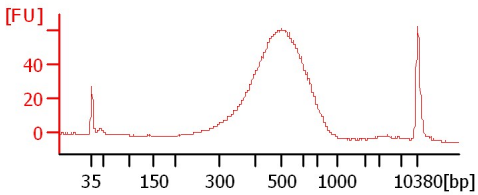
**196**



**197**



**199**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
190		<input type="checkbox"/>	✓			
191		<input type="checkbox"/>	✓			
193		<input type="checkbox"/>	✓			
195		<input type="checkbox"/>	✓			
196		<input type="checkbox"/>	✓			
197		<input type="checkbox"/>	✓			
199		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 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

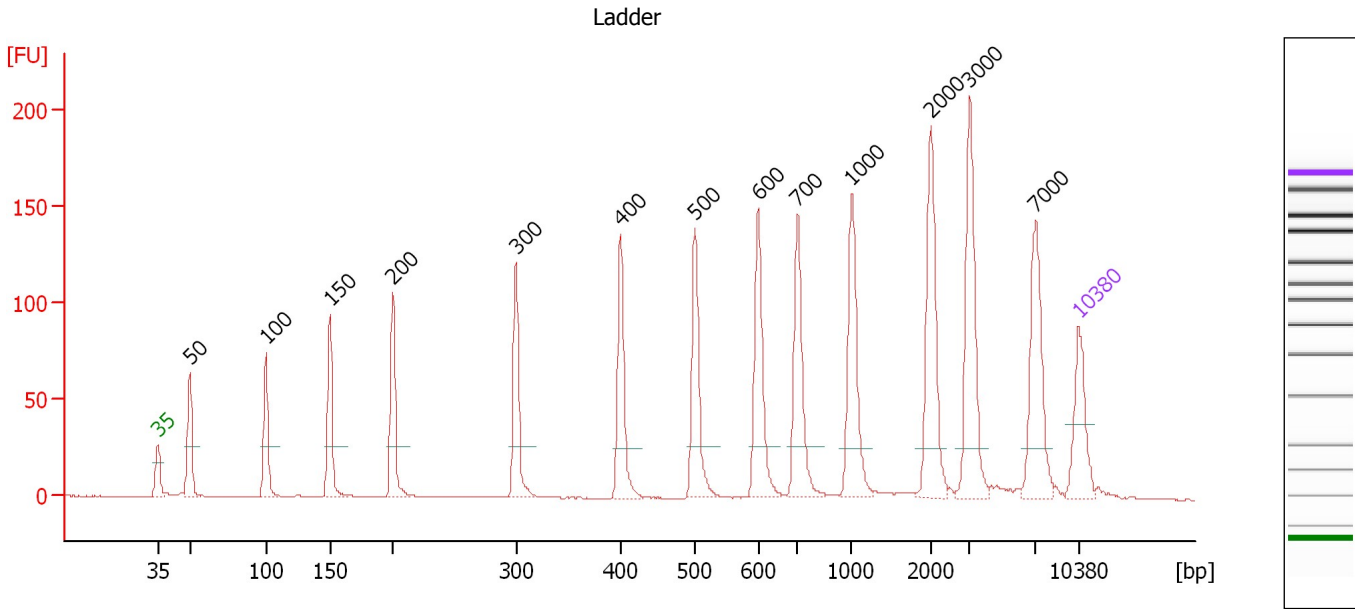
**Ladder**

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:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

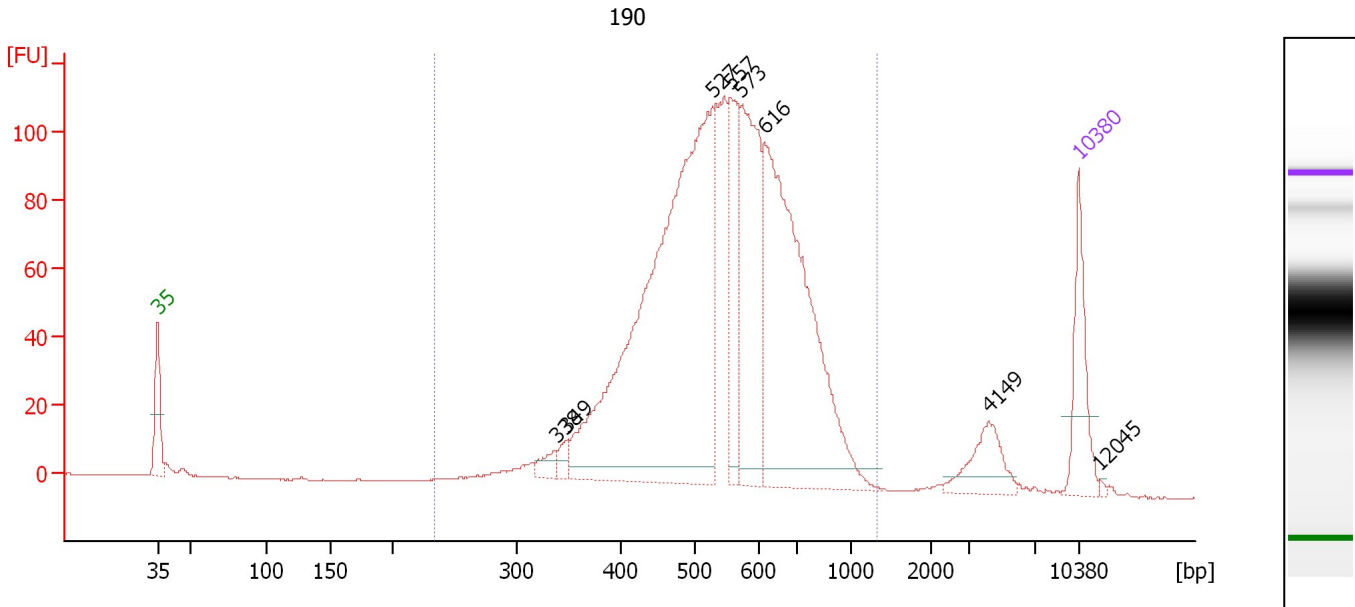
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.44
3	100	150.00	2,272.7	Ladder Peak	51.25
4	150	150.00	1,515.2	Ladder Peak	56.08
5	200	150.00	1,136.4	Ladder Peak	60.91
6	300	150.00	757.6	Ladder Peak	70.24
7	400	150.00	568.2	Ladder Peak	78.21
8	500	150.00	454.5	Ladder Peak	83.84
9	600	150.00	378.8	Ladder Peak	88.62
10	700	150.00	324.7	Ladder Peak	91.62
11	1,000	150.00	227.3	Ladder Peak	95.75
12	2,000	150.00	113.6	Ladder Peak	101.79
13	3,000	150.00	75.8	Ladder Peak	104.70
14	7,000	150.00	32.5	Ladder Peak	109.72
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 190**

Number of peaks found: 8                      Corr. Area 1: 1,759.0  
 Noise: 0.2

**Peak table for sample 5 : 190**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	338	20.07	90.0		73.27
3	349	16.86	73.2		74.15
4	527	956.37	2,749.7		85.13
5	557	135.11	367.7		86.55
6	573	264.19	698.5		87.33
7	616	533.85	1,313.4		89.10
8	4,149	53.74	19.6		106.14
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,045	0.00	0.0		114.62

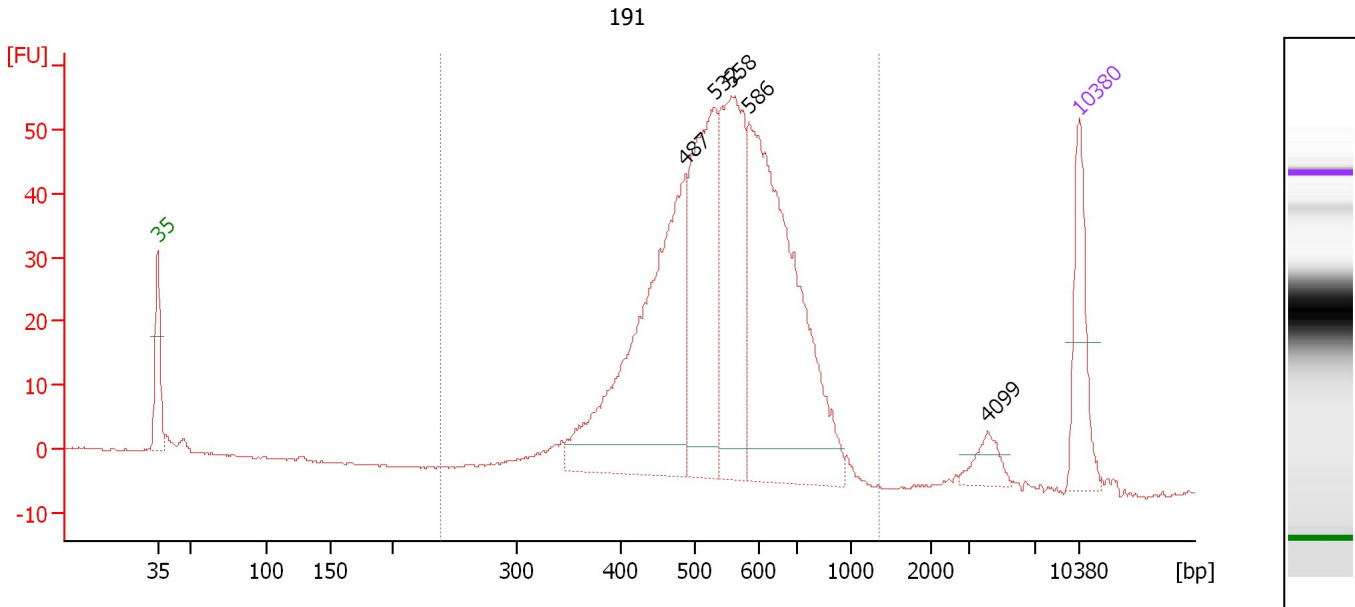
**Region table for sample 5 : 190**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
234	1,320	556	1,759.0	6,571.9	2,238.66	95	23.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 191**

Number of peaks found: 5                      Corr. Area 1: 821.0  
 Noise: 0.2

**Peak table for sample 6 : 191**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	487	455.55	1,418.0		83.09
3	532	271.28	772.7		85.37
4	558	258.13	701.2		86.60
5	586	473.68	1,225.3		87.94
6	4,099	24.74	9.1		106.08
7	10,380	75.00	10.9	Upper Marker	113.00

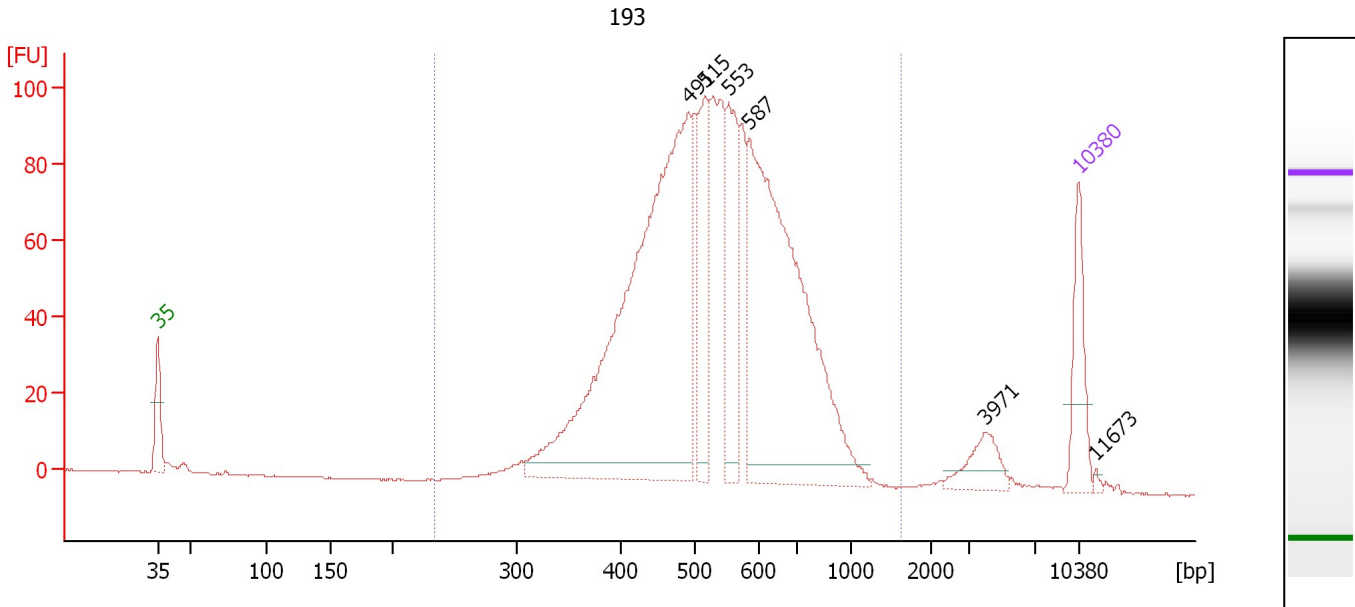
**Region table for sample 6 : 191**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
239	1,347	552	821.0	4,345.4	1,498.55	95	20.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 193**

Number of peaks found: 6                      Corr. Area 1: 1,642.2  
 Noise: 0.1

**Peak table for sample 7 : 193**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	491	1,018.19	3,142.9		83.32
3	515	165.24	485.7		84.58
4	553	170.11	465.8		86.39
5	587	692.04	1,786.6		87.99
6	3,971	46.13	17.6		105.92
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,673	0.00	0.0		114.26

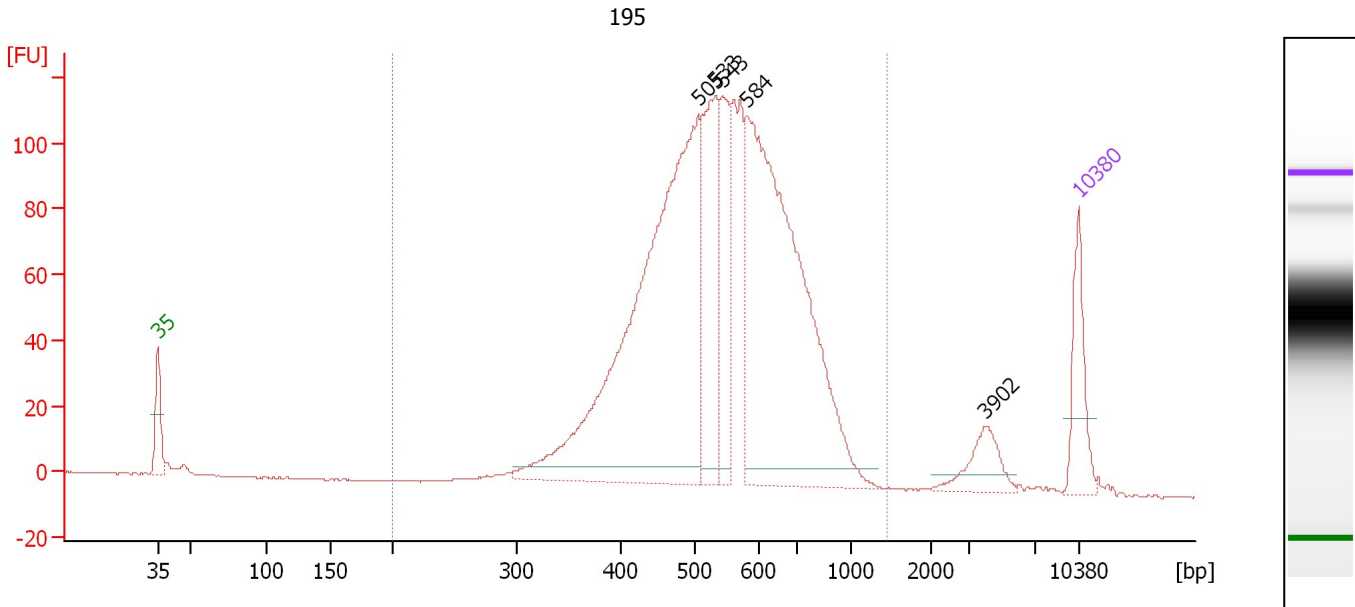
**Region table for sample 7 : 193**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
234	1,614	544	1,642.2	7,606.2	2,539.75	96	24.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 195**

Number of peaks found: 5                      Corr. Area 1: 1,820.4  
 Noise: 0.1

**Peak table for sample 8 : 195**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	505	1,013.26	3,040.3		84.07
3	533	250.90	713.8		85.40
4	543	148.49	414.2		85.90
5	584	797.62	2,070.7		87.84
6	3,902	52.47	20.4		105.83
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 : 195**

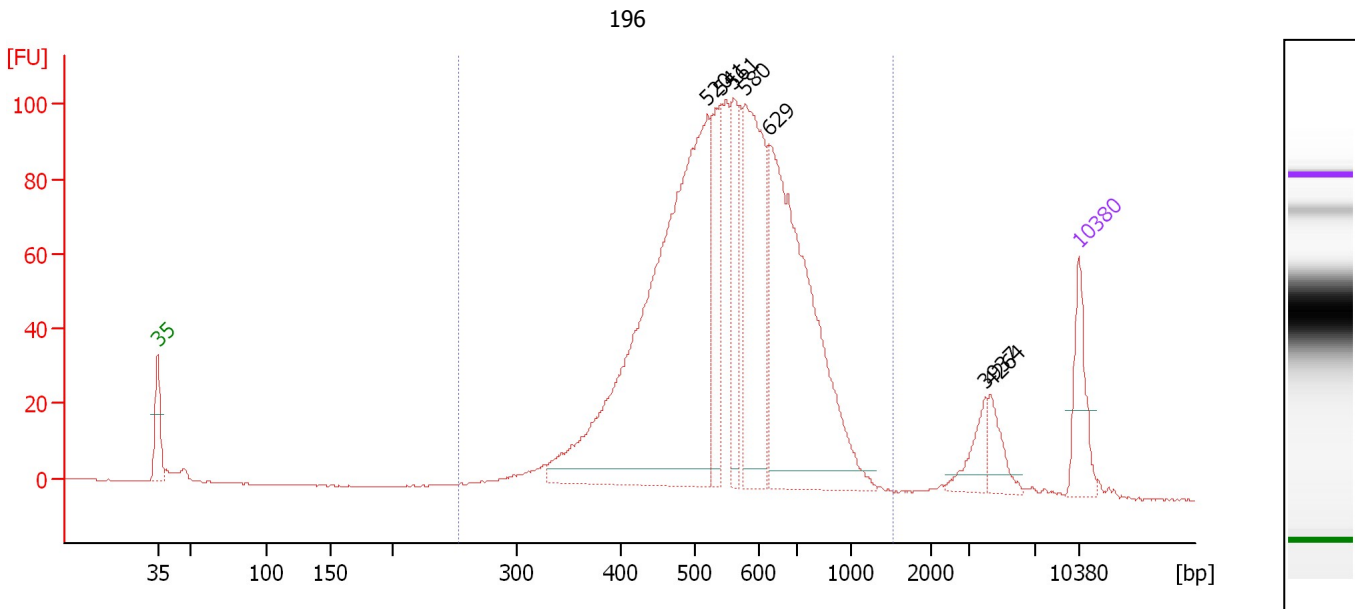
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,442	554	1,820.4	7,270.9	2,480.73	96	23.4



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 196**

Number of peaks found: 7                      Corr. Area 1: 1,564.9  
 Noise: 0.2

**Peak table for sample 9 : 196**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	520	1,186.17	3,453.2		84.82
3	541	165.12	462.6		85.79
4	561	152.79	412.5		86.76
5	580	383.20	1,000.2		87.69
6	629	673.12	1,622.4		89.48
7	3,937	45.77	17.6		105.88
8	4,264	43.75	15.5		106.29
9	10,380	75.00	10.9	Upper Marker	113.00

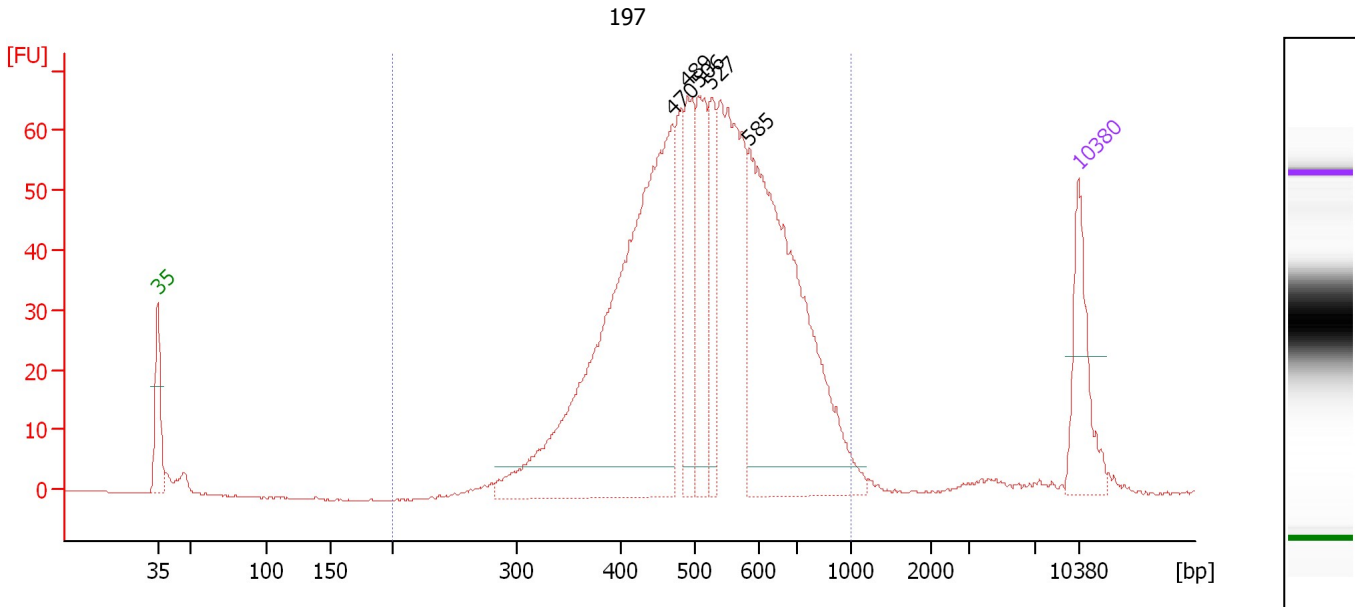
**Region table for sample 9 : 196**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
254	1,526	567	1,564.9	8,359.7	2,908.47	95	24.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 197**

Number of peaks found: 5                      Corr. Area 1: 1,111.5  
 Noise: 0.1

**Peak table for sample 10 : 197**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	470	763.38	2,462.3		82.13
3	489	131.11	406.3		83.21
4	506	136.40	408.2		84.14
5	527	89.96	258.8		85.11
6	585	521.45	1,351.3		87.89
7	10,380	75.00	10.9	Upper Marker	113.00

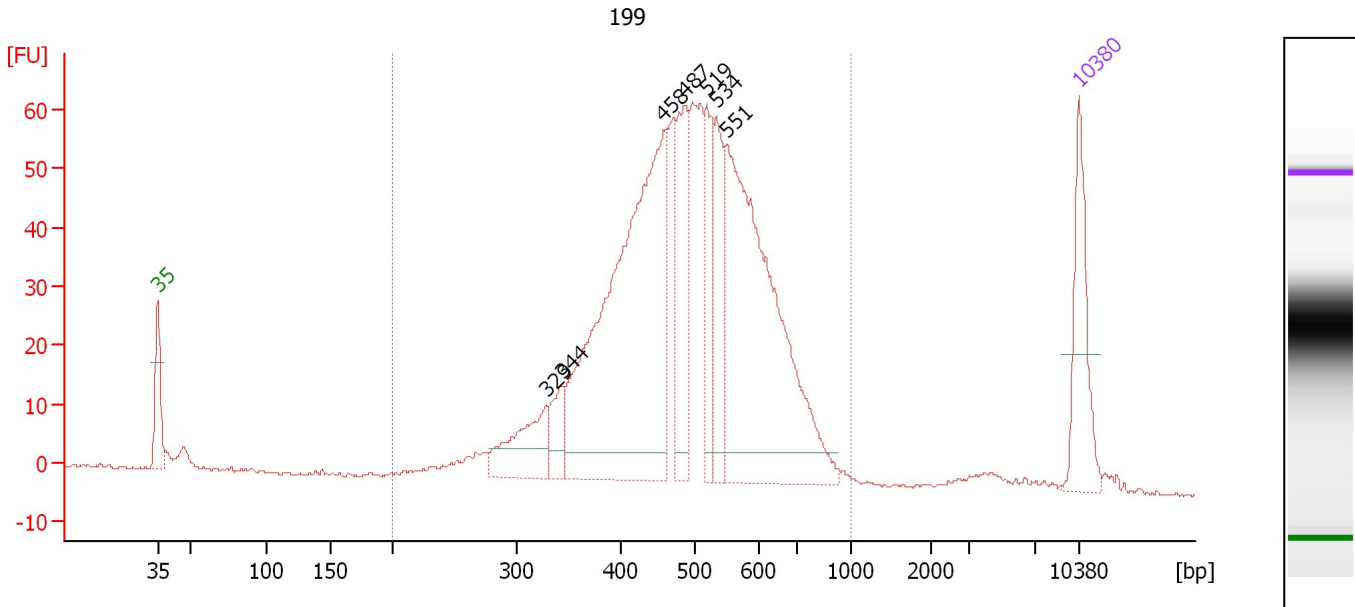
**Region table for sample 10 : 197**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	530	1,111.5	6,077.0	1,979.57	97	23.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
 Modified: 11/23/2015 2:06:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 199**

Number of peaks found: 7                      Corr. Area 1: 1,025.4  
 Noise: 0.2

**Peak table for sample 11 : 199**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	329	89.11	409.9		72.58
3	344	38.82	171.2		73.72
4	458	579.96	1,919.8		81.46
5	487	129.73	403.5		83.11
6	519	80.89	236.0		84.76
7	534	92.83	263.2		85.49
8	551	455.15	1,252.4		86.26
9	10,380	75.00	10.9	Upper Marker	113.00

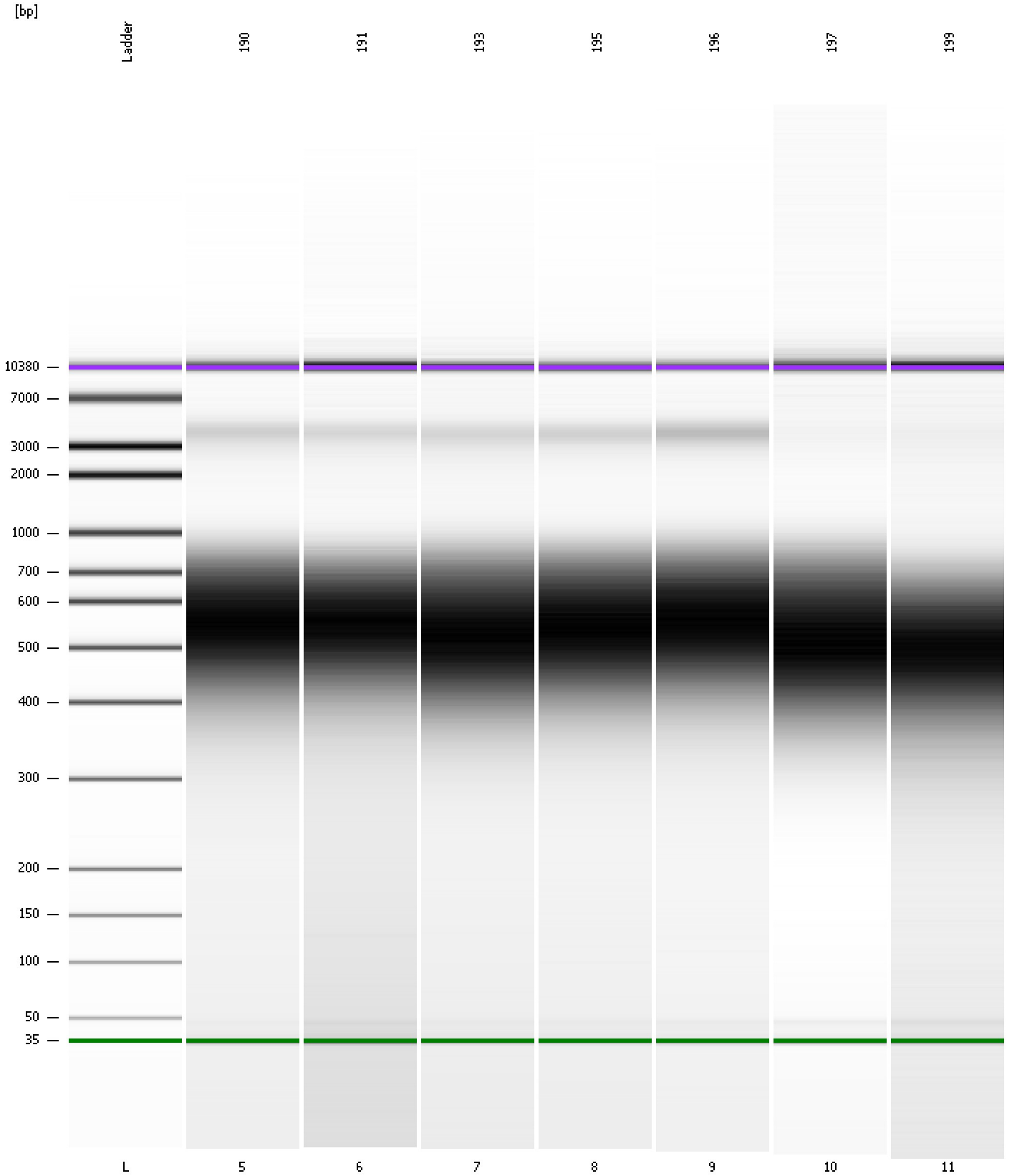
**Region table for sample 11 : 199**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	494	1,025.4	5,715.0	1,735.18	97	22.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad

Created: 11/23/2015 1:16:25 PM  
Modified: 11/23/2015 2:06:46 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 11/23/2015 1:16:25 PM  
 Data Path: C:\...analyzer\2015-11-23\2015-11-23\_004\_HiSeq241\_Plate3\_Libs.xad Modified: 11/23/2015 2:06:46 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		11/23/2015 1:57:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-23\2015-11-23_004.xad)		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/23/2015 1:16:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1