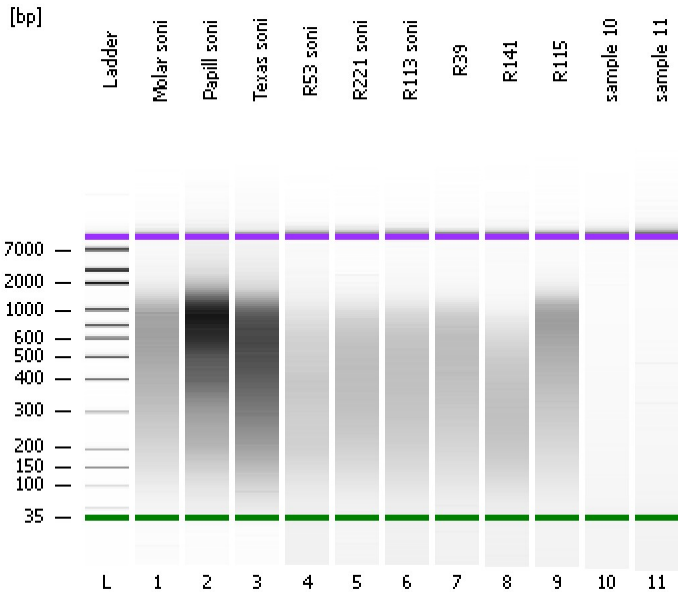


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 PM

**Electrophoresis File Run Summary**



Instrument Information:

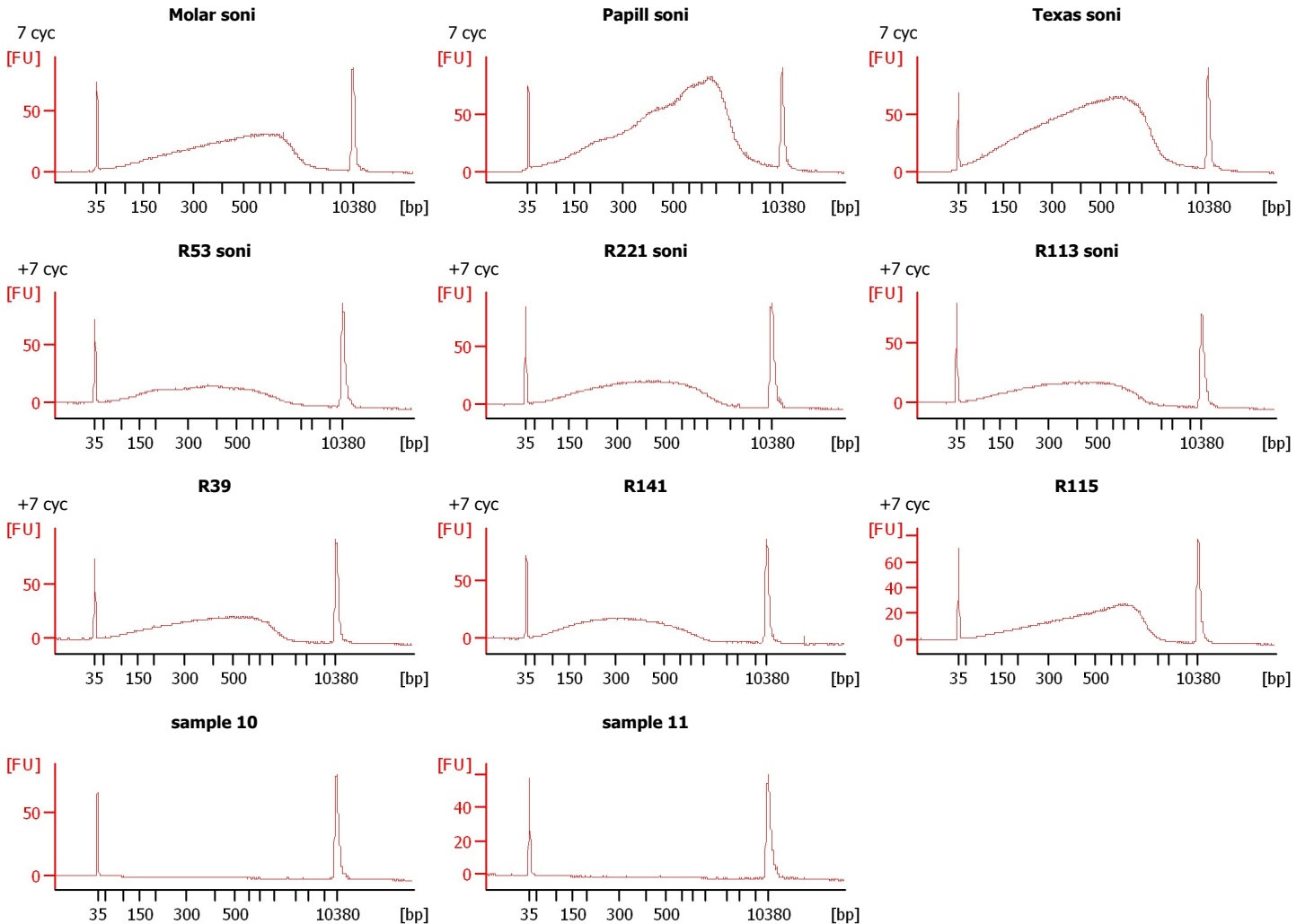
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Molar soni	7 cyc	<input type="checkbox"/>	✓			
Papill soni	7 cyc	<input type="checkbox"/>	✓			
Texas soni	7 cyc	<input type="checkbox"/>	✓			
R53 soni	+7 cyc	<input type="checkbox"/>	✓			
R221 soni	+7 cyc	<input type="checkbox"/>	✓			
R113 soni	+7 cyc	<input type="checkbox"/>	✓			
R39	+7 cyc	<input type="checkbox"/>	✓			
R141	+7 cyc	<input type="checkbox"/>	✓			
R115	+7 cyc	<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\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 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

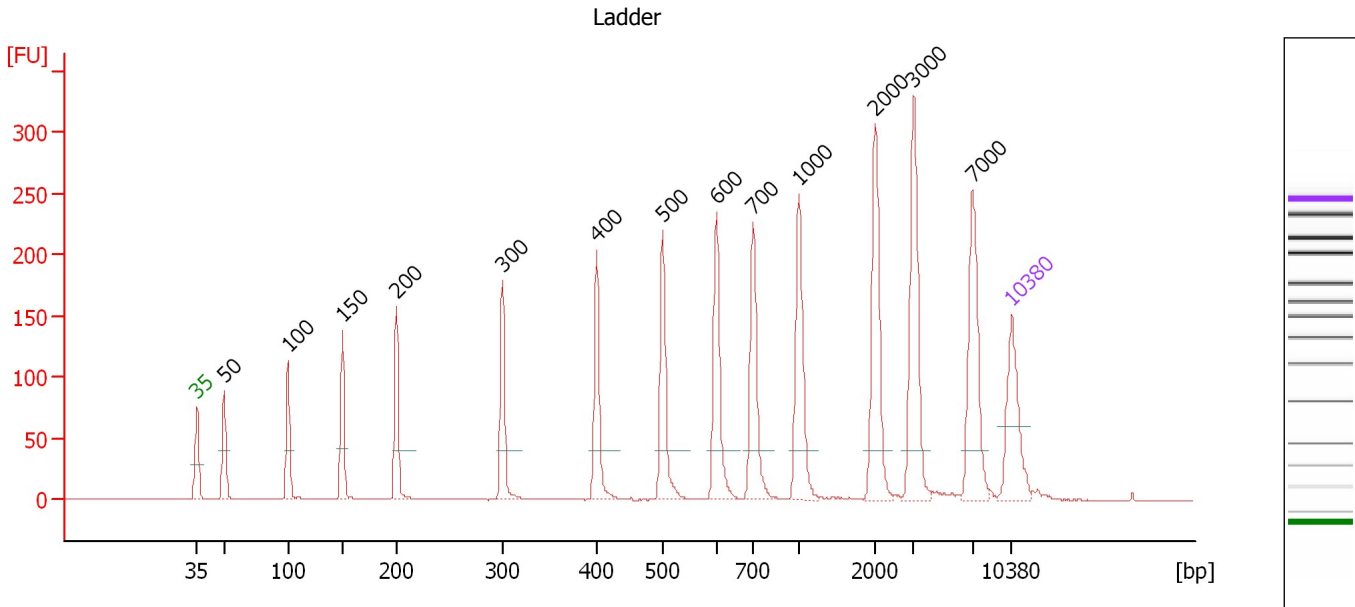
**Ladder**

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\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

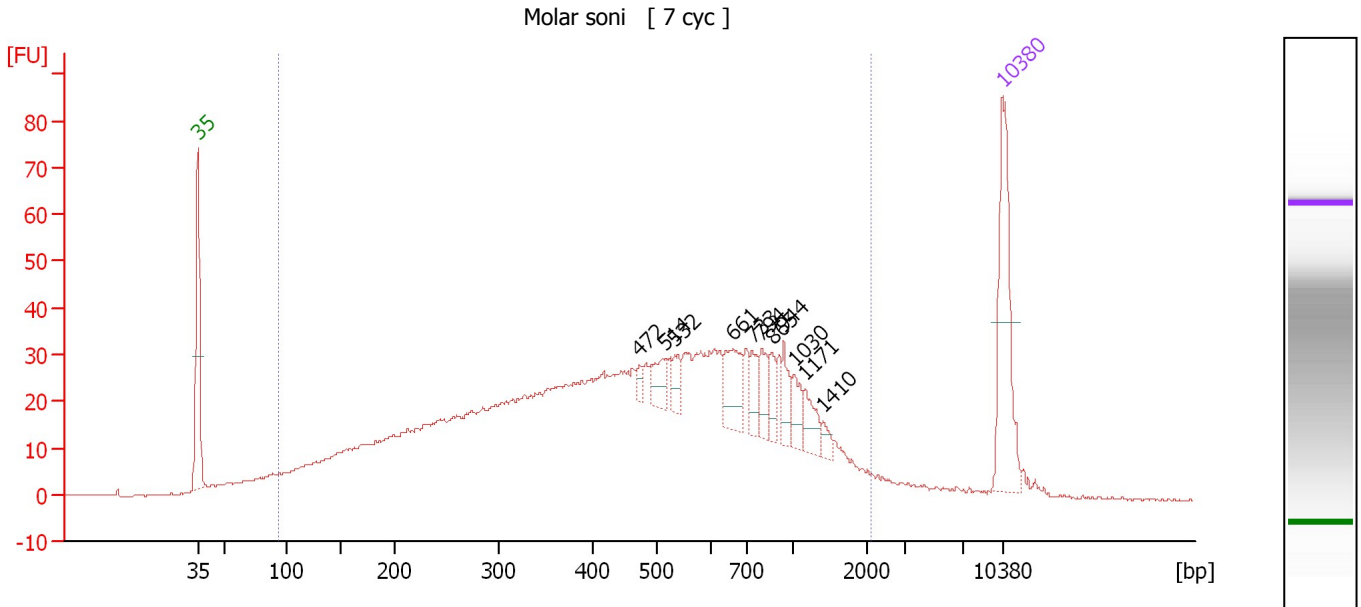
**Peak table for Ladder**

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:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Molar soni**

Number of peaks found: 11                      Corr. Area 1: 1,361.0  
 Noise: 0.2

**Peak table for sample 1 : Molar soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	472	6.84	21.9	
3	514	22.05	65.0	
4	532	13.54	38.5	
5	661	36.84	84.5	
6	733	17.94	37.1	
7	794	18.15	34.6	
8	865	14.40	25.2	
9	944	18.73	30.1	
10	1,030	15.46	22.7	
11	1,171	17.33	22.4	
12	1,410	7.01	7.5	
13	10,380	75.00	10.9	Upper Marker

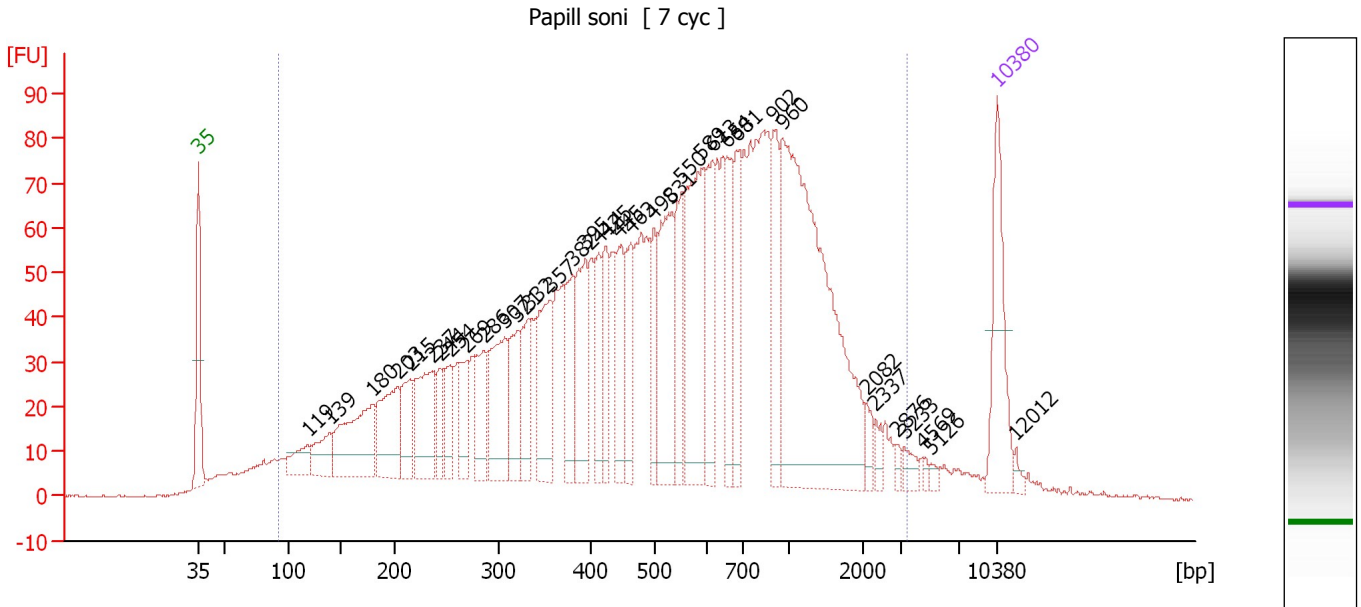
**Region table for sample 1 : Molar soni**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
93	2,068	545	8,467.3	1,784.86	1,361.0	94	63.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Papill soni**

Number of peaks found: 36                      Corr. Area 1: 2,969.7  
 Noise: 0.2

**Peak table for sample 2 : Papill soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	119	40.03	511.6	
3	139	46.90	509.9	
4	180	135.58	1,143.9	
5	203	99.90	744.2	
6	215	59.90	421.8	
7	237	104.20	665.5	
8	244	34.25	212.8	
9	254	39.67	237.0	
10	269	45.47	256.1	
11	286	63.10	333.7	
12	307	107.11	529.1	
13	321	61.50	290.6	
14	332	58.03	264.6	
15	357	102.79	436.7	
16	382	70.26	279.0	
17	395	86.72	332.7	
18	414	48.58	177.7	
19	425	53.12	189.5	
20	445	64.04	218.3	
21	463	59.97	196.4	
22	498	50.08	152.3	
23	531	120.70	344.4	
24	550	69.07	190.2	
25	589	157.38	405.1	
26	613	76.90	190.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : Papill soni**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	654	57.04	132.1	
28	681	71.38	158.8	
29	902	71.34	119.8	
30	960	415.20	655.3	
31	2,082	12.54	9.1	
32	2,337	9.57	6.2	
33	2,876	5.34	2.8	
34	3,233	10.63	5.0	
35	4,569	3.57	1.2	
36	5,126	4.34	1.3	
37	10,380	75.00	10.9	Upper Marker
38	12,012	0.00	0.0	

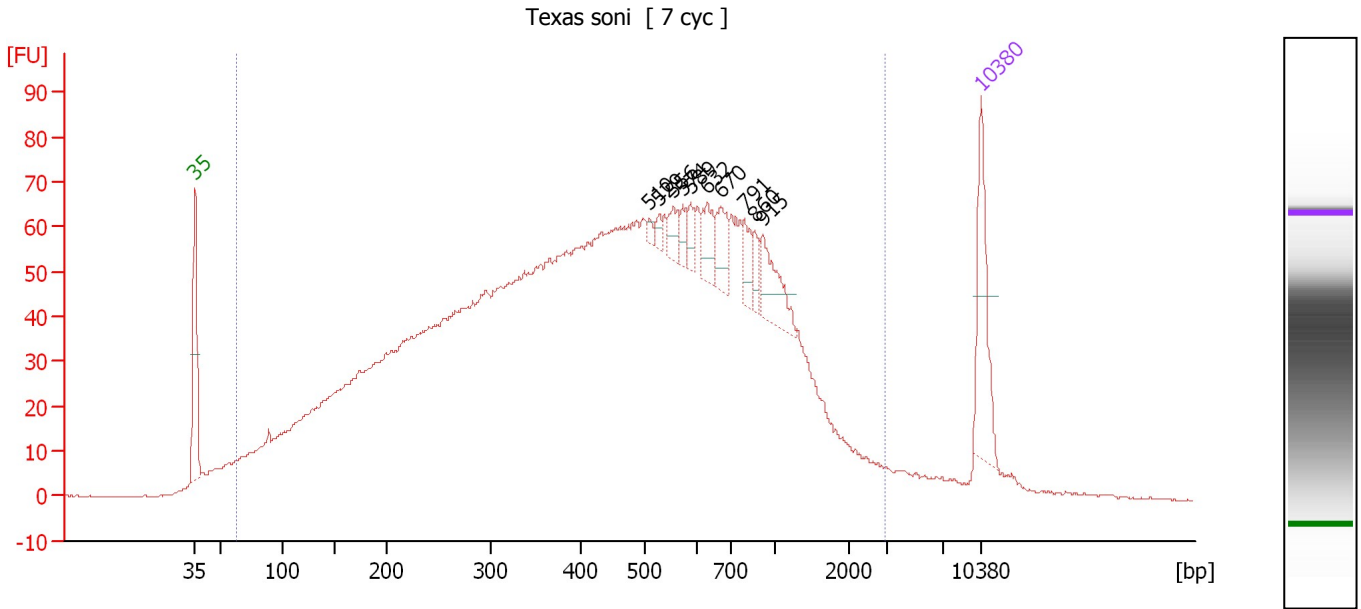
**Region table for sample 2 : Papill soni**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
92	3,459	669	15,612.3	3,648.42	 2,969.7	95	73.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Texas soni**

Number of peaks found: 10                      Corr. Area 1: 3,084.6  
 Noise: 0.2

**Peak table for sample 3 : Texas soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	510	5.64	16.8	
3	529	8.81	25.3	
4	556	20.23	55.1	
5	574	14.03	37.1	
6	589	15.52	39.9	
7	632	32.11	77.0	
8	670	36.75	83.1	
9	791	25.13	48.1	
10	860	15.97	28.1	
11	915	50.77	84.0	
12	10,380	75.00	10.9	Upper Marker

**Region table for sample 3 : Texas soni**

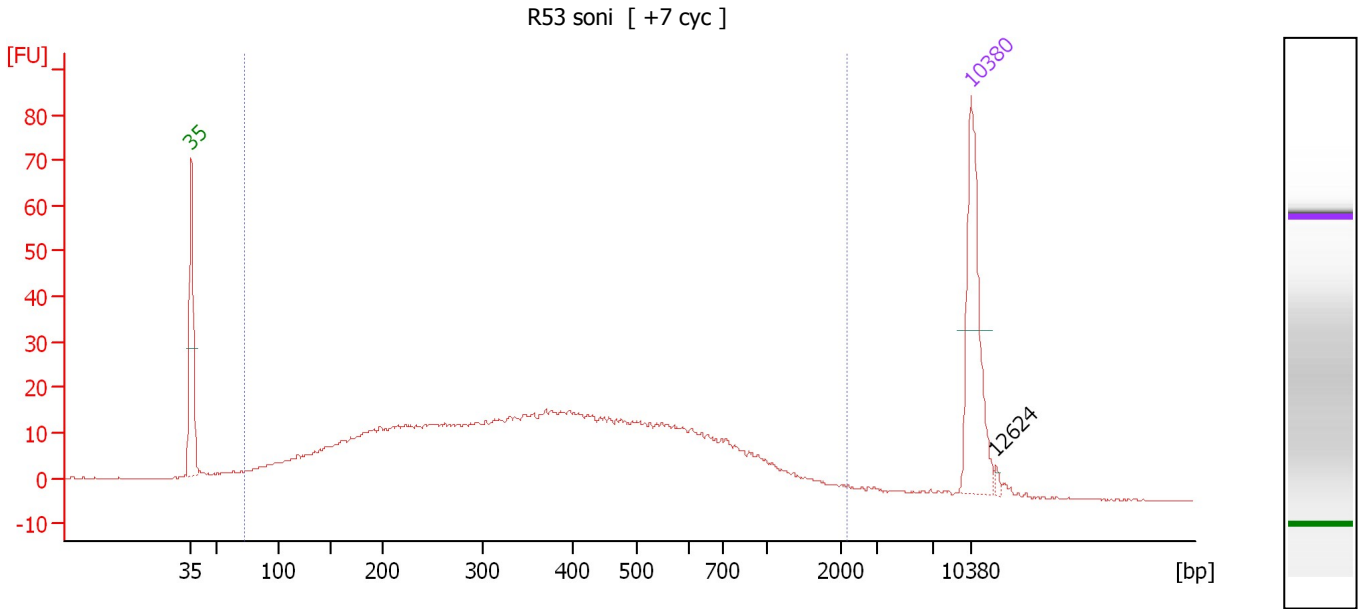
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
62	2,946	537	28,090.3	5,168.04	3,084.6	96	74.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : R53 soni**

Number of peaks found: 1                      Corr. Area 1: 810.3  
 Noise: 0.1

**Peak table for sample 4 : R53 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,624	0.00	0.0	

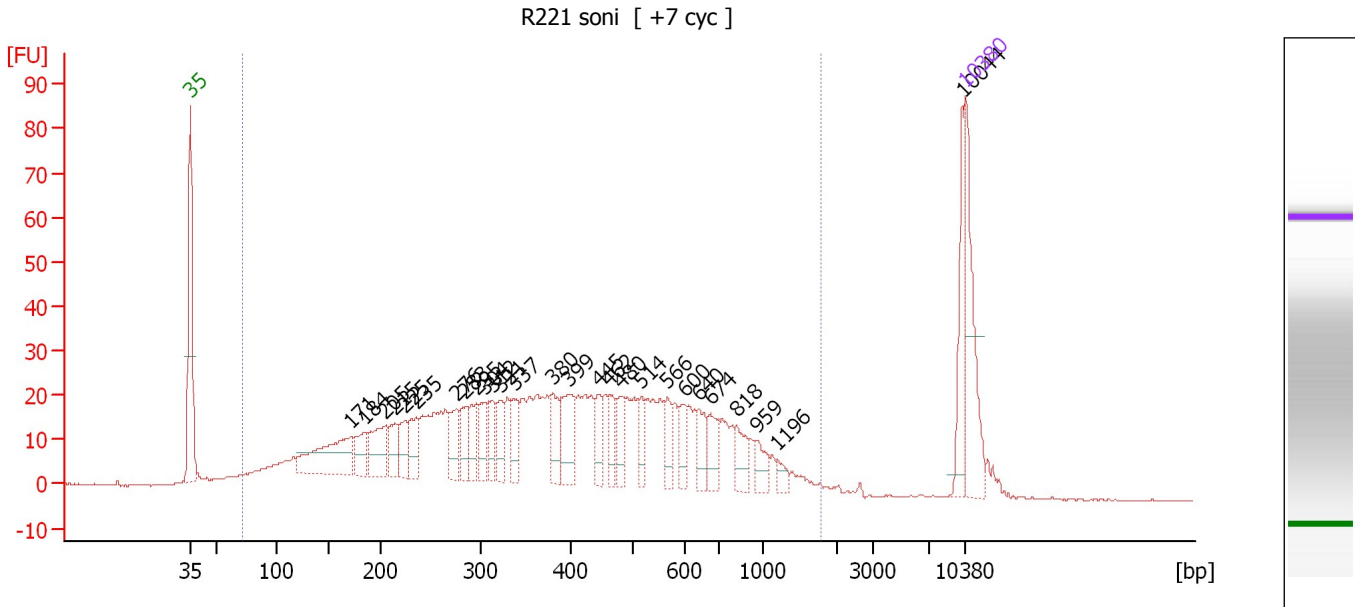
**Region table for sample 4 : R53 soni**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
72	2,193	432	5,492.8	943.02	810.3	96	65.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : R221 soni**

Number of peaks found: 27                      Corr. Area 1: 1,067.4  
 Noise: 0.2

**Peak table for sample 5 : R221 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	171	108.18	956.7	
3	184	34.81	286.1	
4	205	51.51	380.3	
5	215	28.89	203.3	
6	225	29.54	199.2	
7	235	36.05	232.1	
8	276	38.25	210.0	
9	283	29.75	159.1	
10	295	31.81	163.1	
11	304	26.22	130.5	
12	312	26.38	128.0	
13	321	27.96	132.0	
14	337	29.59	133.2	
15	380	34.12	136.0	
16	399	49.62	188.6	
17	445	25.18	85.8	
18	462	23.06	75.7	
19	480	26.20	82.6	
20	514	21.75	64.1	
21	566	22.85	61.1	
22	600	20.82	52.6	
23	640	23.03	54.5	
24	674	27.02	60.8	
25	818	22.90	42.4	
26	959	17.12	27.1	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...****... Peak table for sample 5 : R221 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,196	8.87	11.2	
28	10,044	44.18	6.7	
29	10,380	75.00	10.9	Upper Marker

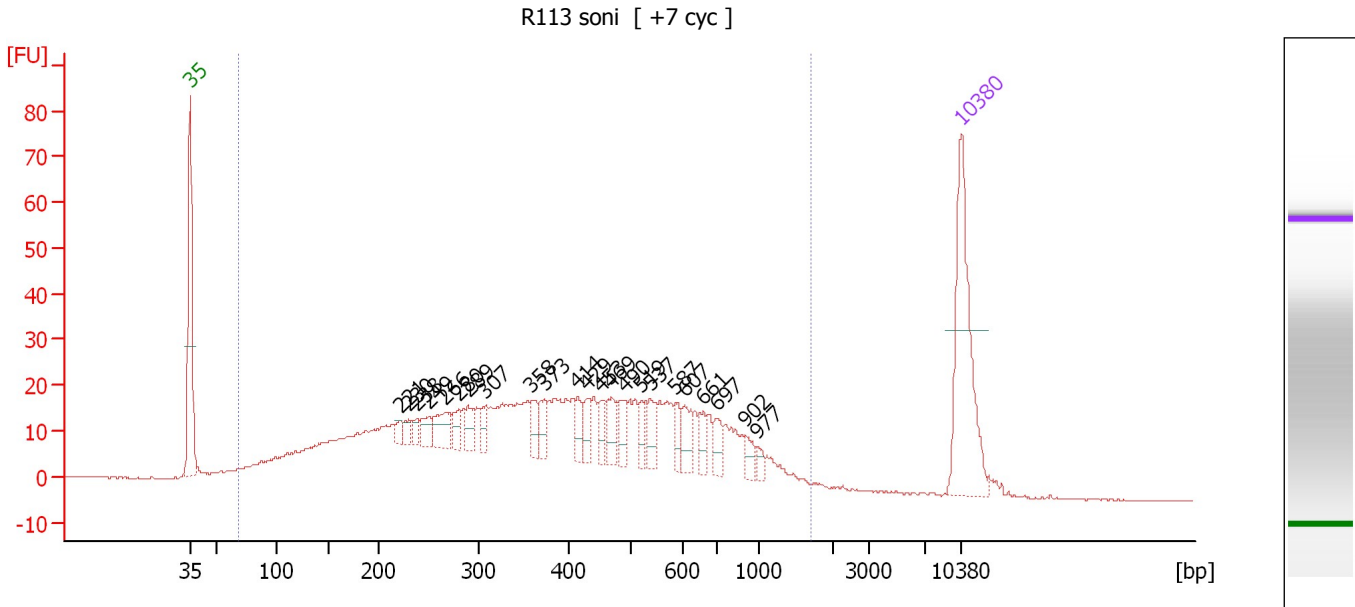
**Region table for sample 5 : R221 soni**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
72	1,796	436	9,592.9	1,712.19	1,067.4	94	58.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : R113 soni**

Number of peaks found: 23                      Corr. Area 1: 959.9  
 Noise: 0.1

**Peak table for sample 6 : R113 soni**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	6.57	45.0	
3	230	7.83	51.7	
4	238	6.81	43.4	
5	249	12.51	76.0	
6	266	21.33	121.4	
7	280	12.03	65.1	
8	289	13.88	72.9	
9	307	10.26	50.6	
10	358	12.09	51.1	
11	373	13.67	55.6	
12	414	12.94	47.3	
13	429	12.16	43.0	
14	453	11.05	37.0	
15	469	15.70	50.8	
16	490	11.99	37.1	
17	519	10.87	31.7	
18	537	14.22	40.1	
19	587	9.93	25.6	
20	607	15.11	37.7	
21	661	8.87	20.3	
22	697	11.22	24.4	
23	902	8.27	13.9	
24	977	5.22	8.1	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**

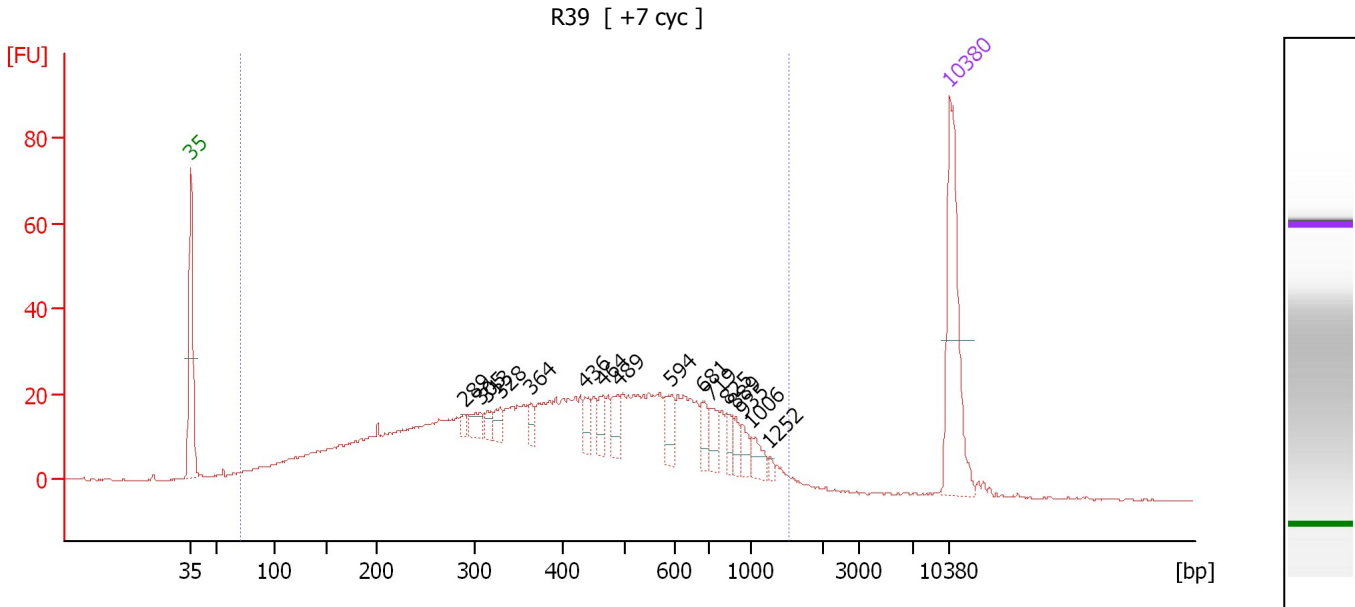
... Region table for sample 6 : R113 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
69	1,695	433	6,128.8	1,073.22	 959.9	97	57.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : R39**

Number of peaks found: 16                      Corr. Area 1: 1,012.2  
 Noise: 0.1

**Peak table for sample 7 : R39**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	5.37	28.2	
3	305	13.54	67.2	
4	313	8.97	43.3	
5	328	9.86	45.5	
6	364	8.93	37.2	
7	436	11.03	38.3	
8	464	13.15	42.9	
9	489	15.37	47.6	
10	594	17.52	44.7	
11	681	15.06	33.5	
12	719	14.81	31.2	
13	825	9.10	16.7	
14	889	8.01	13.6	
15	935	9.05	14.7	
16	1,006	10.85	16.3	
17	1,252	2.81	3.4	
18	10,380	75.00	10.9	Upper Marker

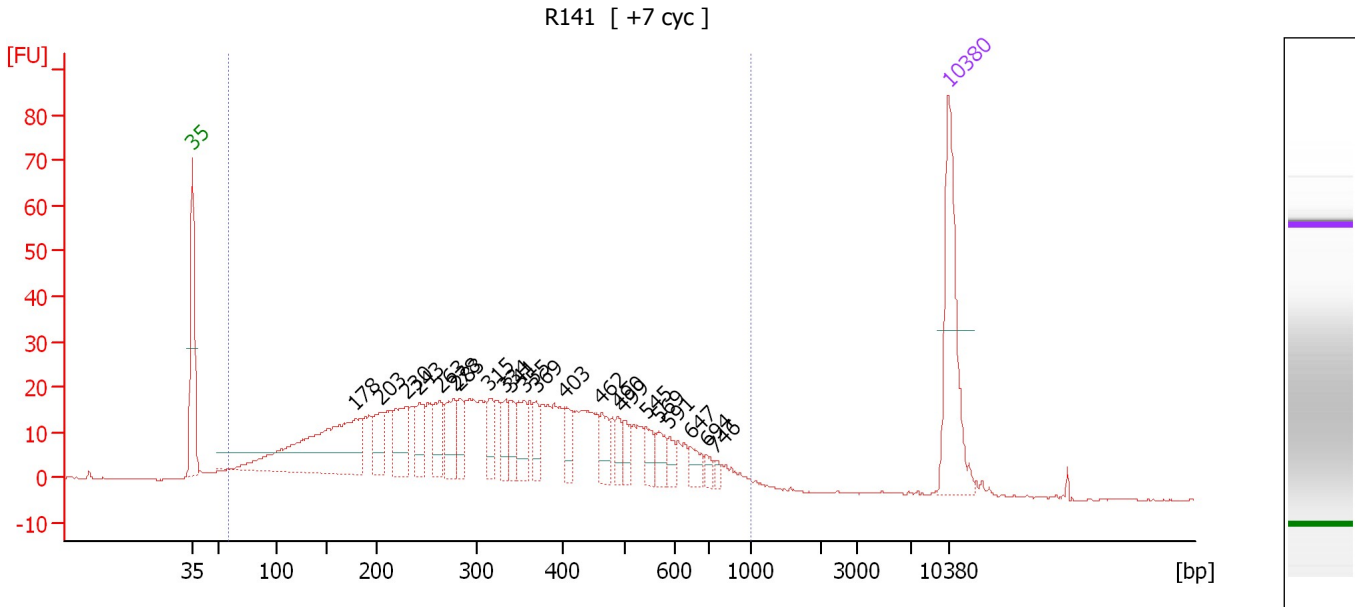
**Region table for sample 7 : R39**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
71	1,534	456	6,184.3	1,150.13	1,012.2	97	54.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : R141**

Number of peaks found: 22                      Corr. Area 1: 916.6  
 Noise: 0.1


**Peak table for sample 8 : R141**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	178	185.58	1,578.9	
3	203	31.09	231.8	
4	230	45.87	302.5	
5	243	26.72	166.8	
6	263	29.38	169.1	
7	278	33.54	182.8	
8	283	20.19	108.0	
9	315	21.82	104.8	
10	334	17.95	81.5	
11	341	17.68	78.6	
12	355	27.52	117.4	
13	369	16.40	67.4	
14	403	19.86	74.8	
15	462	18.43	60.4	
16	490	11.92	36.8	
17	499	12.17	37.0	
18	545	15.21	42.3	
19	569	13.63	36.3	
20	591	9.19	23.6	
21	647	12.40	29.0	
22	694	6.63	14.5	
23	746	4.23	8.6	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
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**Electropherogram Summary Continued ...****... Region table for sample 8 : R141**

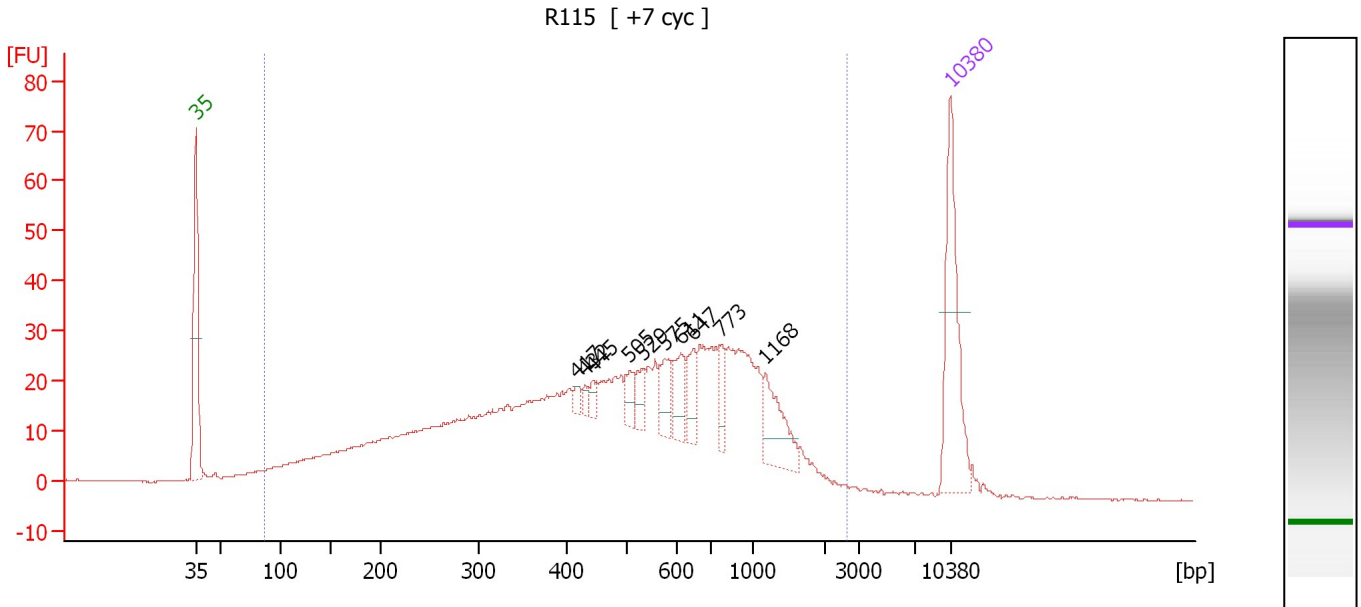
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
58	1,000	345	7,590.3	1,135.33	 916.6	97	48.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : R115**

Number of peaks found: 10                      Corr. Area 1: 1,058.7  
 Noise: 0.1

**Peak table for sample 9 : R115**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	417	5.60	20.3	
3	432	5.49	19.3	
4	445	6.56	22.3	
5	505	14.51	43.5	
6	529	14.49	41.5	
7	575	23.29	61.3	
8	611	24.76	61.4	
9	647	21.73	50.9	
10	773	16.61	32.6	
11	1,168	39.54	51.3	
12	10,380	75.00	10.9	Upper Marker

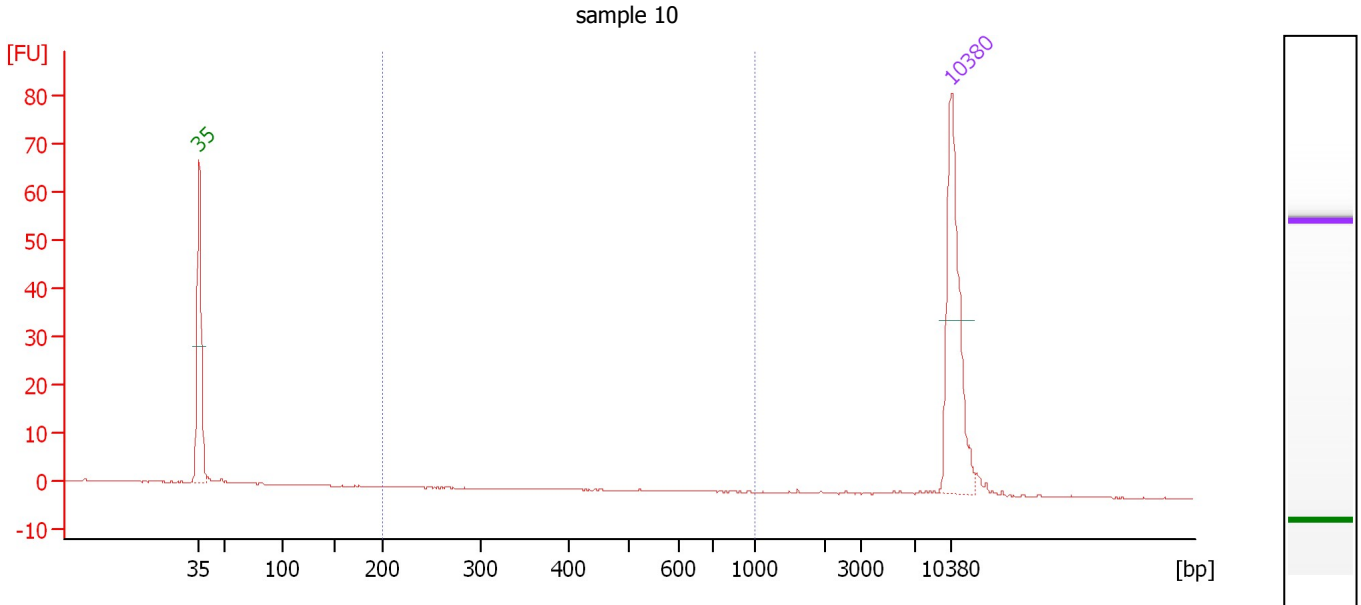
**Region table for sample 9 : R115**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
87	2,652	584	6,072.9	1,339.73	1,058.7	97	64.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 10**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 10 : sample 10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

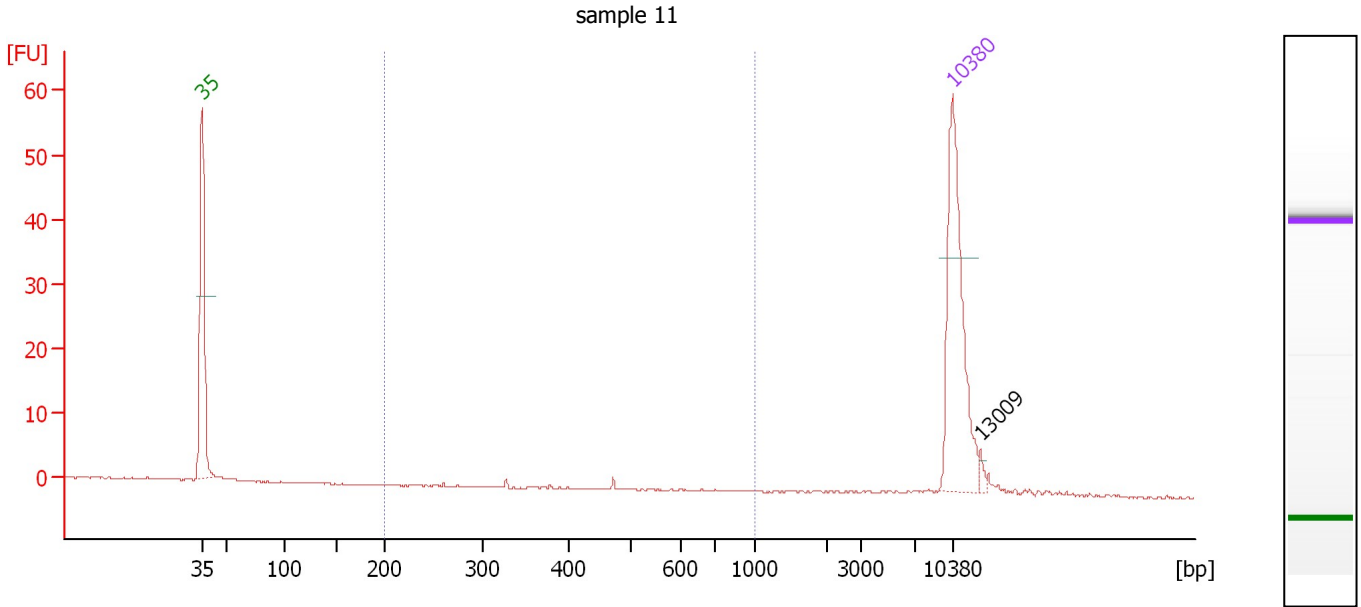
**Region table for sample 10 : sample 10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	733	0.1	0.05	0.0	0	23.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
 Modified: 8/21/2014 4:18:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 1                      Corr. Area 1: 0.6  
 Noise: 0.1

**Peak table for sample 11 : sample 11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	13,009	0.00	0.0	

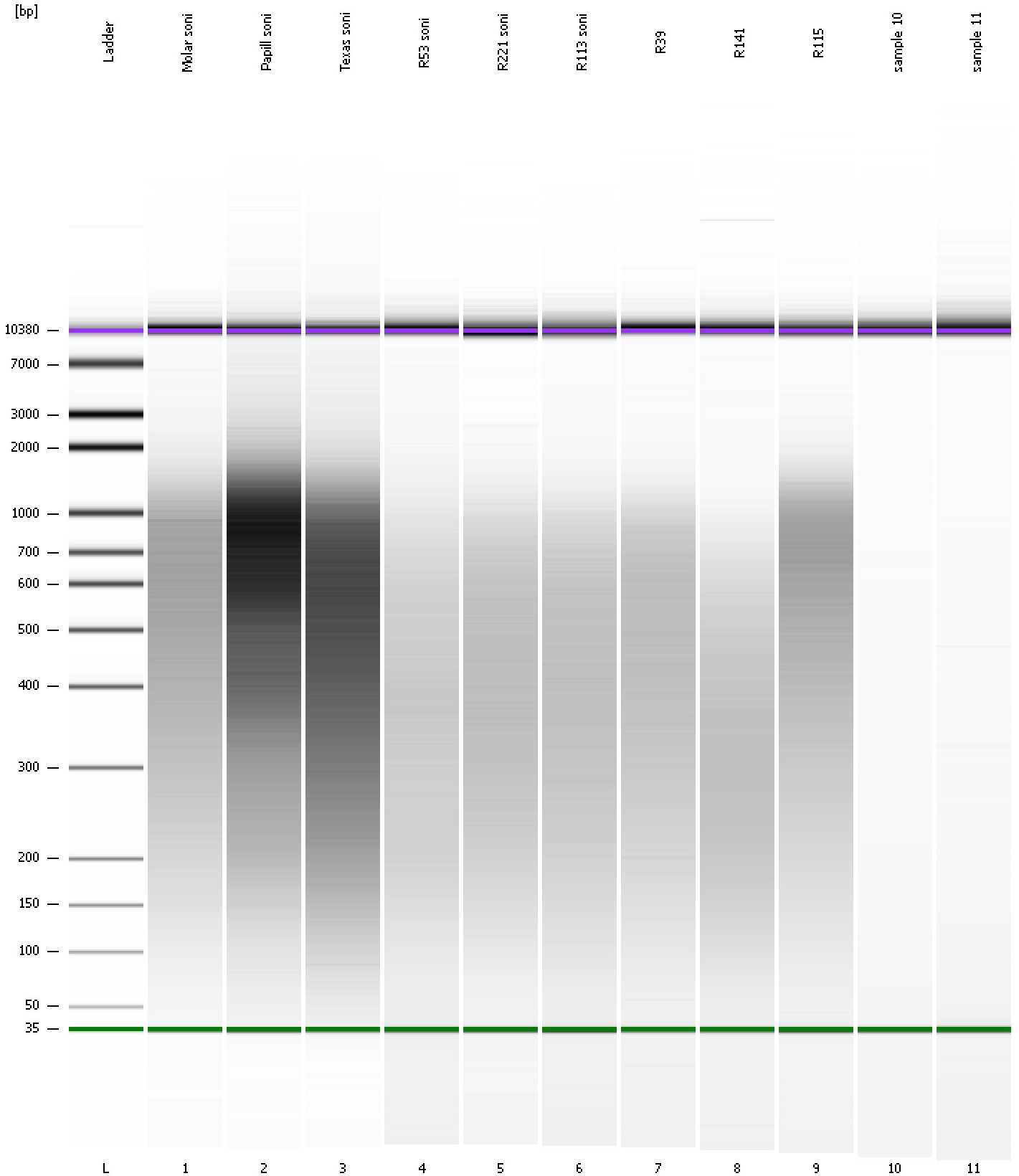
**Region table for sample 11 : sample 11**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	412	2.8	0.72	0.6	6	17.6

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 PM

**Gel Image**

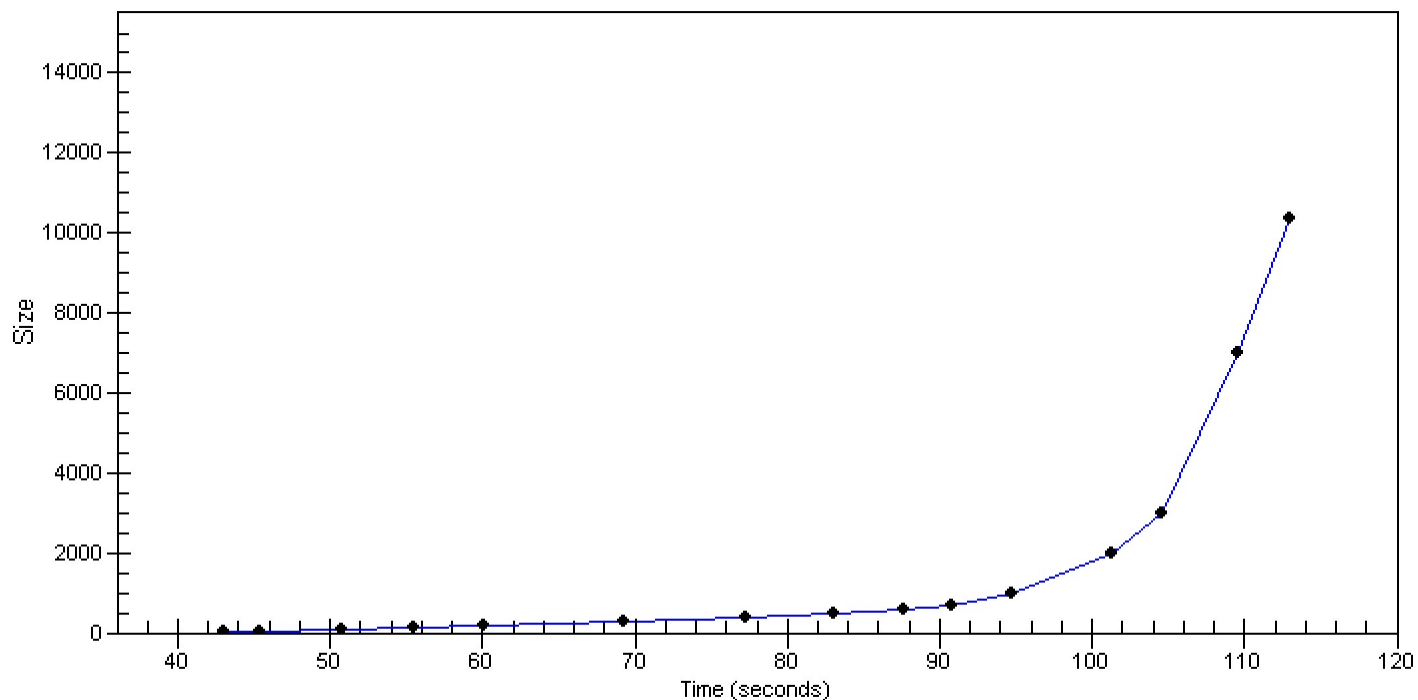


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
Modified: 8/21/2014 4:18:13 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21\_005.xad

Created: 8/21/2014 3:36:49 PM  
 Modified: 8/21/2014 4:18:13 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		8/21/2014 4:18:07 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\2014-08-21\2014-08-21_005.xad)		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2014 3:36:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1