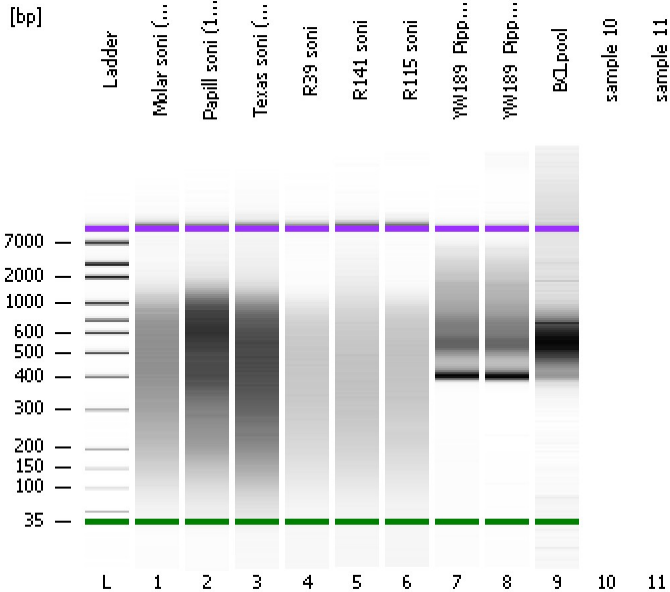


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
Modified: 8/22/2014 10:39:13 AM

Electrophoresis File Run Summary



Instrument Information:

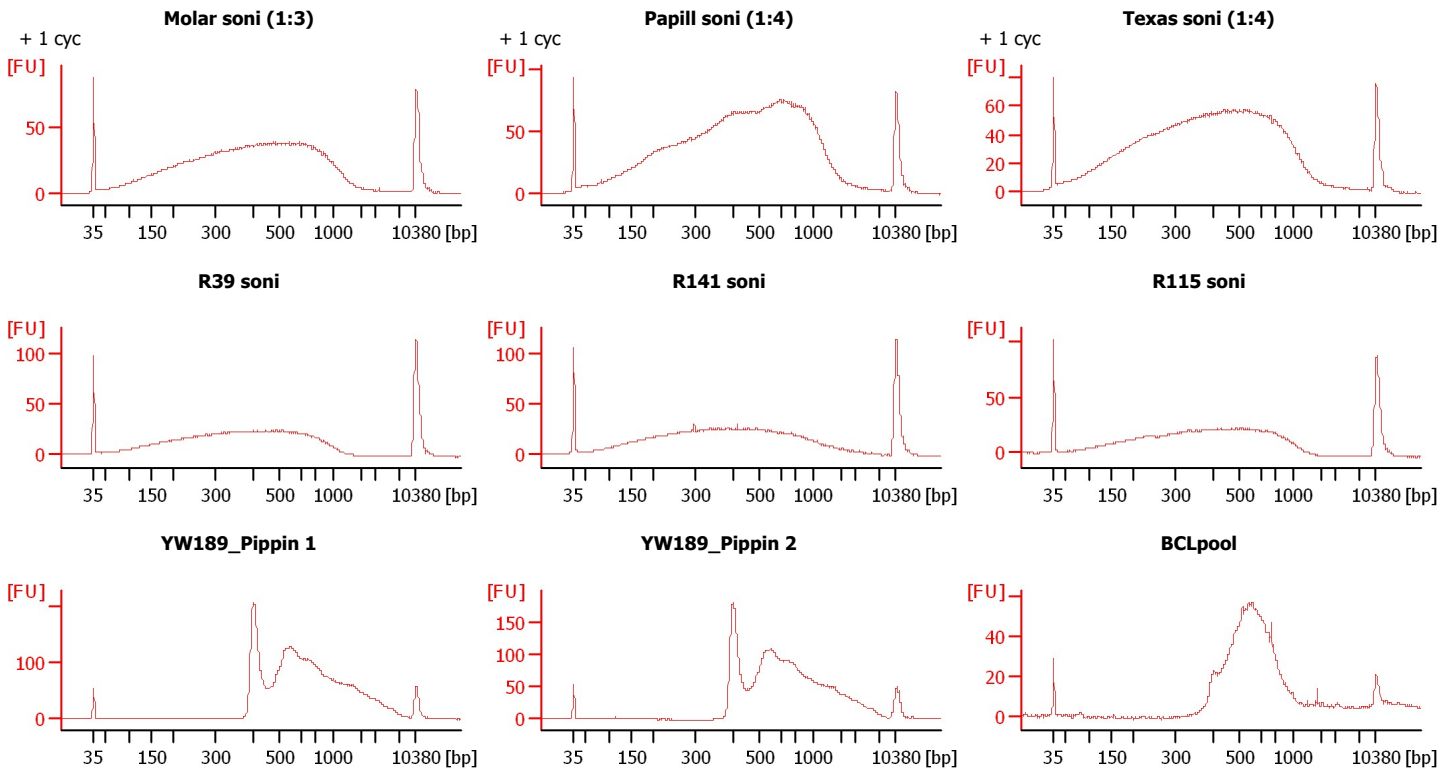
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Molar soni (1:3)	+ 1 cyc	<input type="checkbox"/>	✓			
Papill soni (1:4)	+ 1 cyc	<input type="checkbox"/>	✓			
Texas soni (1:4)	+ 1 cyc	<input type="checkbox"/>	✓			
R39 soni		<input type="checkbox"/>	✓			
R141 soni		<input type="checkbox"/>	✓			
R115 soni		<input type="checkbox"/>	✓			
YW189_Pippin 1		<input type="checkbox"/>	✓			
YW189_Pippin 2		<input type="checkbox"/>	✓			
BCLpool		<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\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
Modified: 8/22/2014 10:39:13 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

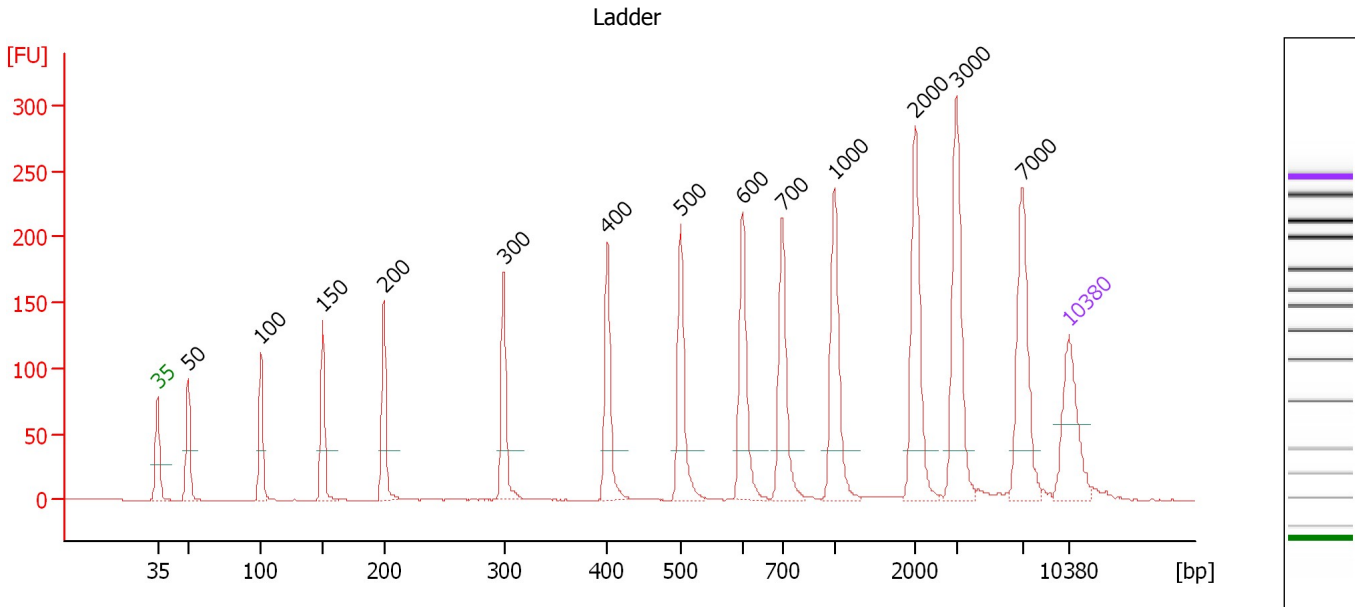
Ladder

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\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

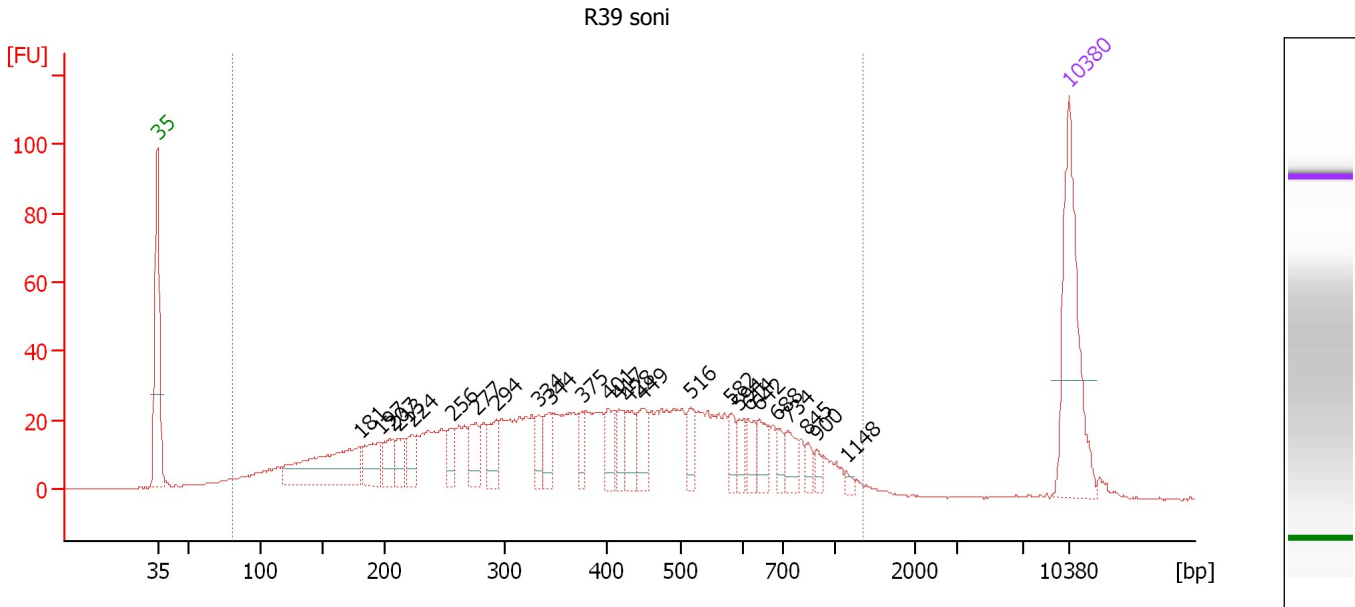
Peak table for Ladder

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:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R39 soni

Number of peaks found: 25 Corr. Area 1: 1,181.1
 Noise: 0.2

Peak table for sample 4 : R39 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	181	91.08	764.0	
3	197	30.50	234.8	
4	207	19.47	142.4	
5	213	16.77	119.5	
6	224	15.05	101.9	
7	256	15.95	94.2	
8	277	22.32	122.2	
9	294	21.03	108.5	
10	334	15.42	70.0	
11	344	20.22	89.0	
12	375	14.75	59.5	
13	401	18.77	70.9	
14	417	14.25	51.8	
15	428	19.32	68.4	
16	449	23.60	79.6	
17	516	15.43	45.3	
18	582	12.11	31.5	
19	594	12.19	31.1	
20	614	11.93	29.4	
21	642	17.01	40.1	
22	688	9.09	20.0	
23	734	14.70	30.3	
24	845	6.85	12.3	
25	900	5.72	9.6	
26	1,148	2.84	3.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...**... Peak table for sample 4 : R39 soni**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

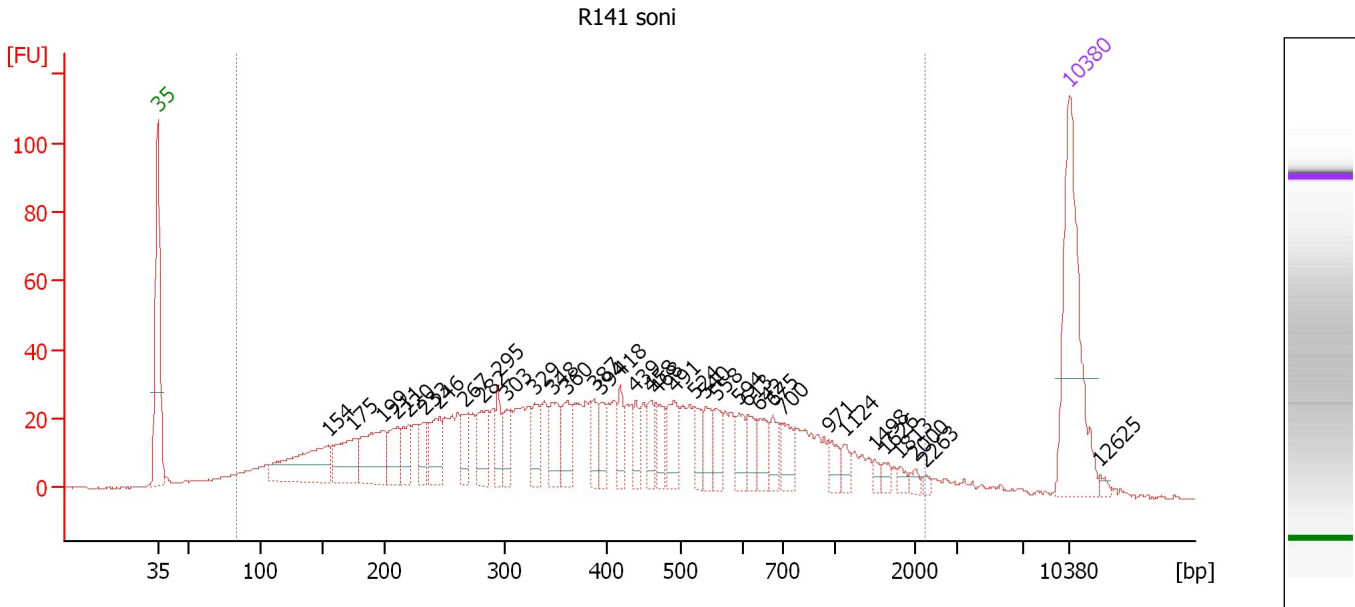
Region table for sample 4 : R39 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
80	1,351	419	5,636.4	1,018.99	1,181.1	96	50.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : R141 soni

Number of peaks found: 37 Corr. Area 1: 1,384.2
 Noise: 0.2

Peak table for sample 5 : R141 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	68.57	674.8	
3	175	41.27	357.0	
4	199	46.97	358.0	
5	211	24.60	176.4	
6	220	19.45	133.7	
7	233	15.32	99.4	
8	246	26.50	163.2	
9	267	16.27	92.5	
10	282	26.14	140.6	
11	295	17.59	90.3	
12	303	15.71	78.6	
13	329	17.22	79.2	
14	348	25.15	109.7	
15	360	21.14	88.9	
16	387	14.78	57.8	
17	394	15.45	59.5	
18	418	14.86	53.8	
19	439	13.51	46.7	
20	458	14.72	48.7	
21	468	14.27	46.3	
22	491	22.40	69.0	
23	524	12.03	34.8	
24	540	14.42	40.4	
25	558	13.04	35.4	
26	594	13.08	33.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad


Created: 8/22/2014 10:02:33 AM
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Electropherogram Summary Continued ...

... Peak table for sample 5 : R141 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	613	11.99	29.7	
28	642	13.84	32.7	
29	675	12.37	27.7	
30	700	14.92	32.3	
31	971	8.36	13.1	
32	1,124	6.75	9.1	
33	1,498	3.17	3.2	
34	1,626	3.76	3.5	
35	1,813	3.12	2.6	
36	2,000	3.16	2.4	
37	2,263	1.91	1.3	
38	10,380	75.00	10.9	Upper Marker
39	12,625	0.00	0.0	

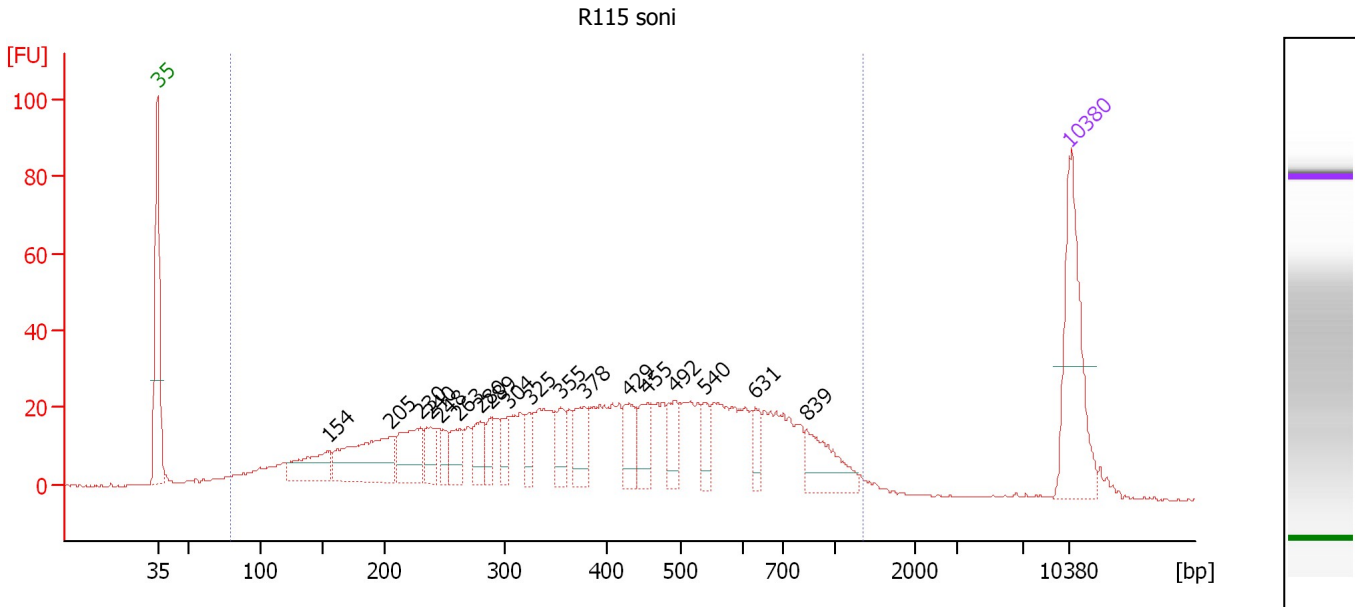
Region table for sample 5 : R141 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
84	2,233	477	5,936.6	1,081.57	 1,384.2	95	71.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : R115 soni

Number of peaks found: 18 Corr. Area 1: 1,090.1
 Noise: 0.2

Peak table for sample 6 : R115 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	47.77	469.2	
3	205	93.13	688.0	
4	230	51.63	339.4	
5	240	25.08	158.6	
6	248	14.70	89.9	
7	263	25.23	145.4	
8	280	24.93	134.8	
9	289	16.19	84.9	
10	304	17.36	86.5	
11	325	16.47	76.7	
12	355	21.26	90.8	
13	378	29.26	117.4	
14	429	26.10	92.2	
15	455	28.25	94.1	
16	492	23.66	72.8	
17	540	15.45	43.4	
18	631	14.25	34.2	
19	839	39.46	71.3	
20	10,380	75.00	10.9	Upper Marker

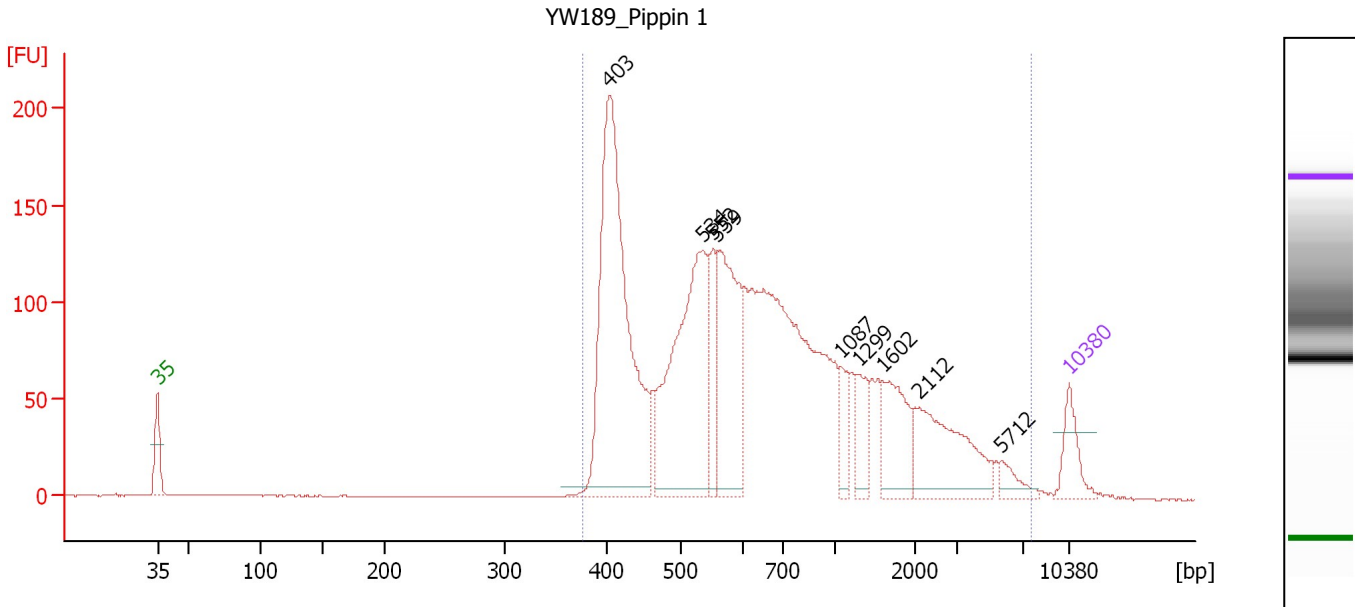
Region table for sample 6 : R115 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
80	1,368	432	5,856.4	1,081.21	1,090.1	97	50.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : YW189 Pippin 1

Number of peaks found: 9 Corr. Area 1: 2,889.7
 Noise: 0.1

Peak table for sample 7 : YW189 Pippin 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	403	1,063.58	3,996.8	
3	534	704.12	1,996.3	
4	552	141.02	387.0	
5	559	419.84	1,138.1	
6	1,087	75.12	104.7	
7	1,299	88.17	102.8	
8	1,602	167.58	158.4	
9	2,112	255.37	183.2	
10	5,712	38.44	10.2	
11	10,380	75.00	10.9	Upper Marker

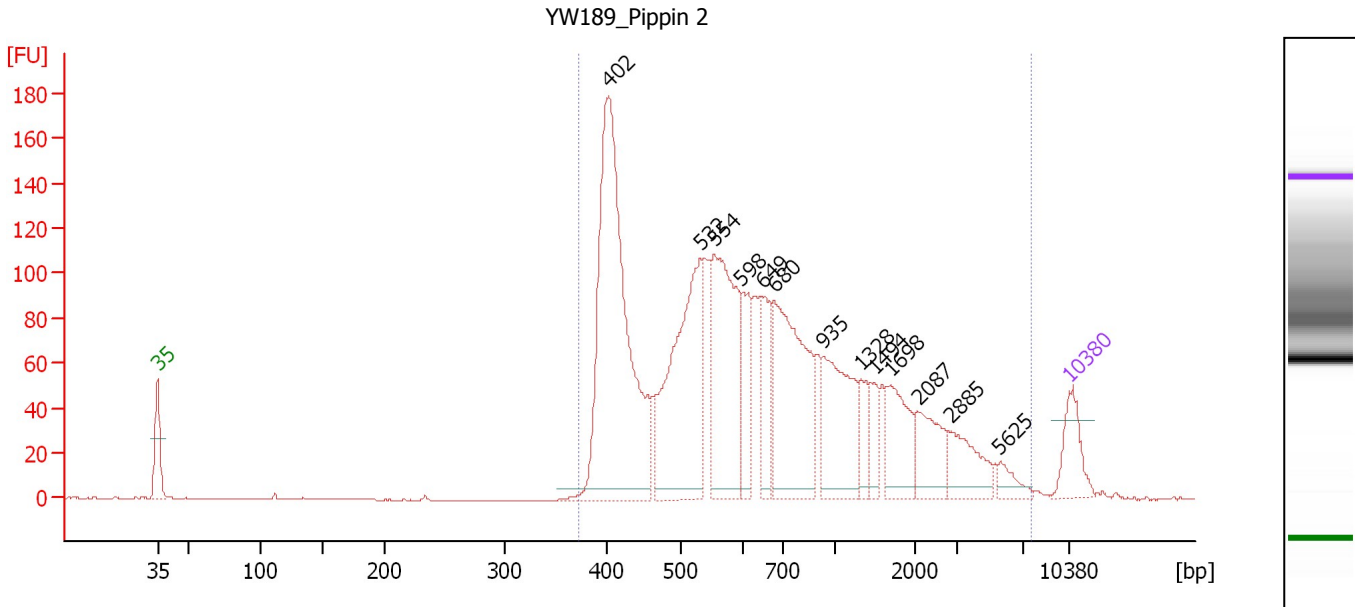
Region table for sample 7 : YW189 Pippin 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
375	7,581	1,004	10,522.0	4,240.86	2,889.7	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : YW189 Pippin 2

Number of peaks found: 13 Corr. Area 1: 2,394.2
 Noise: 0.2

Peak table for sample 8 : YW189 Pippin 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	402	958.89	3,618.1	
3	532	532.27	1,516.8	
4	554	443.93	1,213.8	
5	598	124.80	316.2	
6	649	100.69	235.0	
7	680	421.81	939.7	
8	935	247.84	401.5	
9	1,328	63.31	72.2	
10	1,494	47.58	48.2	
11	1,698	125.82	112.3	
12	2,087	106.06	77.0	
13	2,885	94.30	49.5	
14	5,625	29.67	8.0	
15	10,380	75.00	10.9	Upper Marker

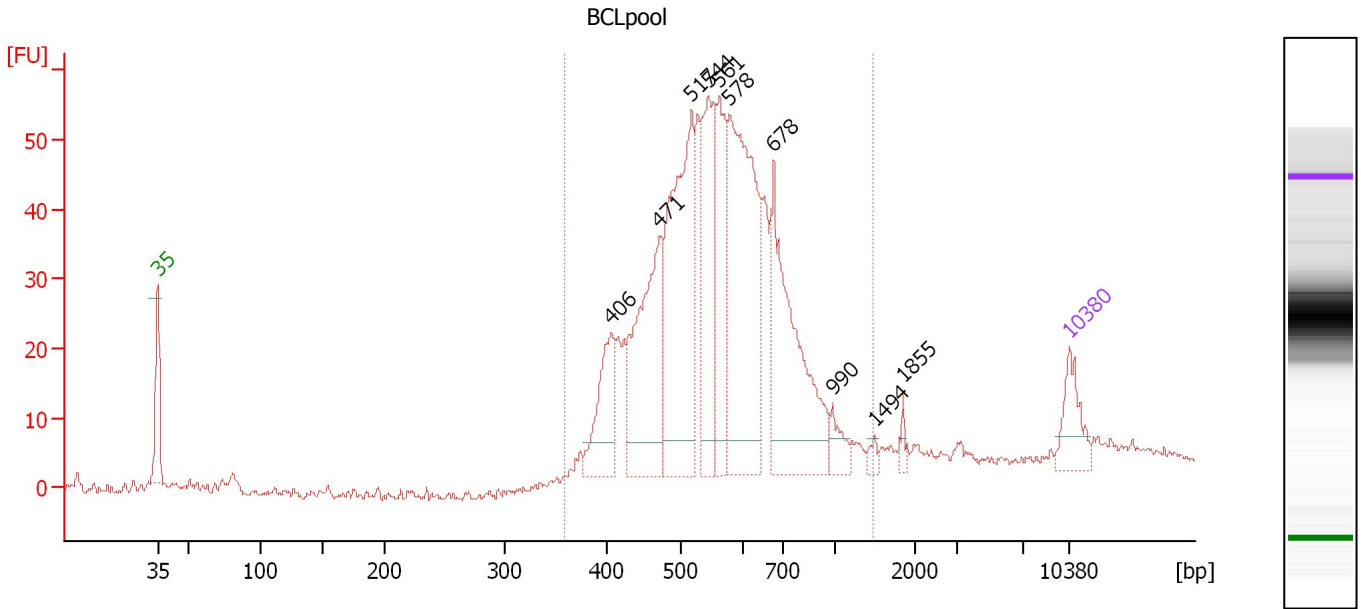
Region table for sample 8 : YW189 Pippin 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
373	7,534	968	8,967.0	3,565.72	2,394.2	100	98.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BCLpool

Number of peaks found: 10 Corr. Area 1: 756.9
 Noise: 0.6

Peak table for sample 9 : BCLpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	406	187.77	701.3	
3	471	436.65	1,405.1	
4	517	586.72	1,717.9	
5	544	309.32	861.1	
6	561	234.72	633.7	
7	578	621.14	1,628.0	
8	678	463.30	1,034.6	
9	990	42.77	65.4	
10	1,494	13.62	13.8	
11	1,855	15.20	12.4	
12	10,380	75.00	10.9	Upper Marker

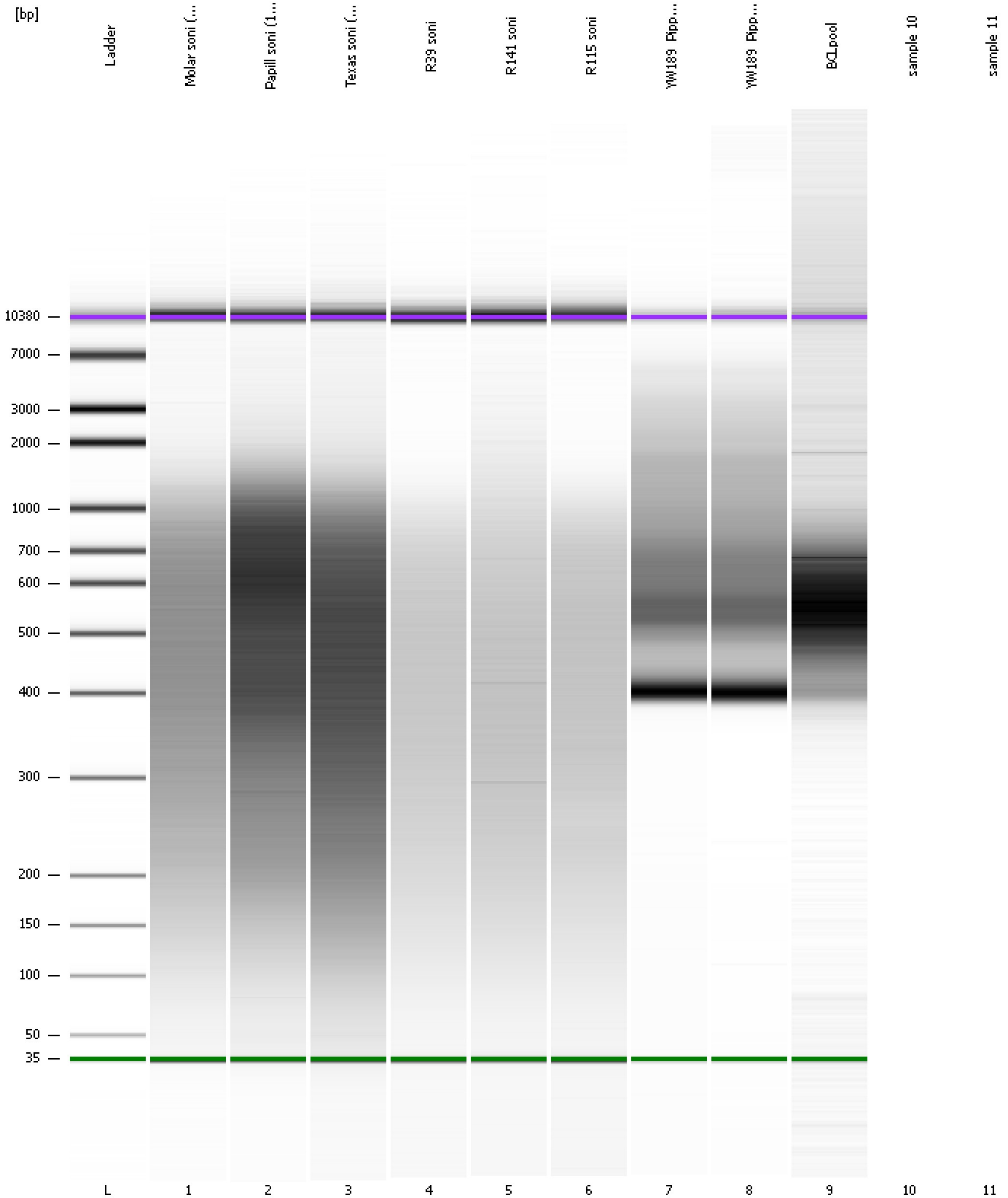
Region table for sample 9 : BCLpool

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
358	1,482	585	9,358.7	3,374.48	756.9	89	26.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
Modified: 8/22/2014 10:39:13 AM

Gel Image

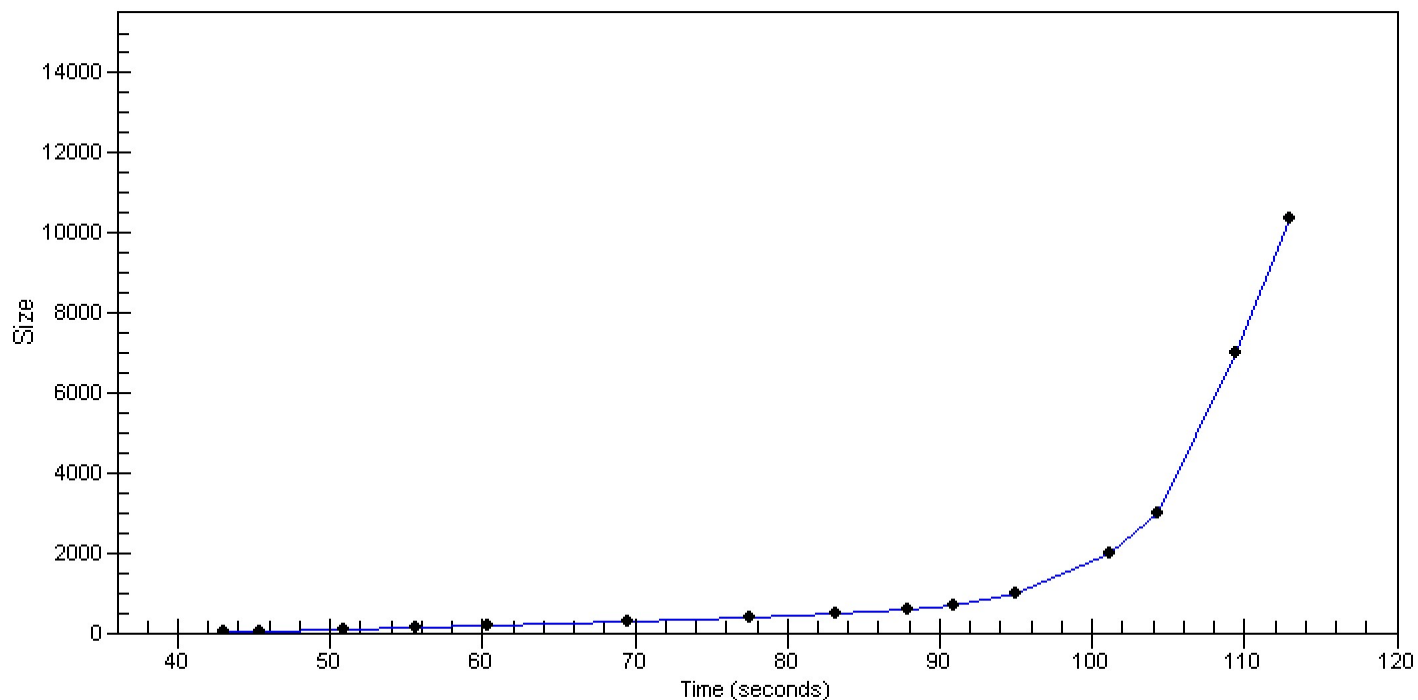


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
Modified: 8/22/2014 10:39:13 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_002.xad

Created: 8/22/2014 10:02:33 AM
 Modified: 8/22/2014 10:39:13 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		8/22/2014 10:38:09 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\2014-08-22\2014-08-22_002.xad)		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/22/2014 10:02:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1