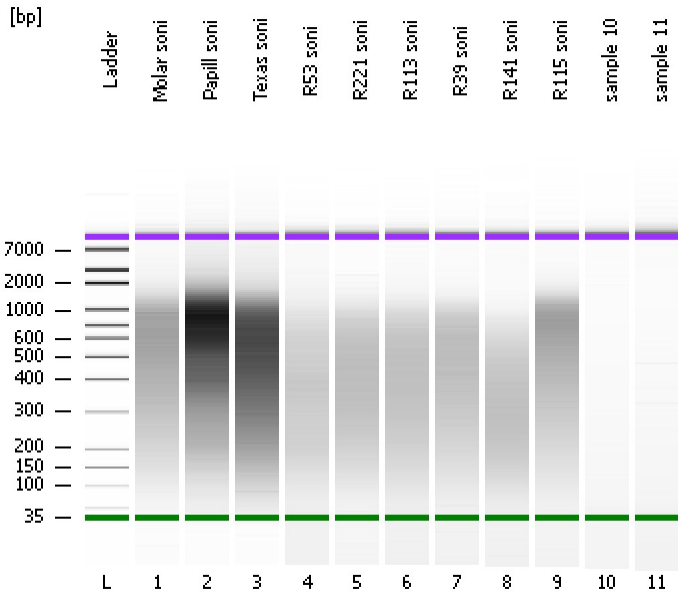


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_005.xad

Created: 8/21/2014 3:36:49 PM
Modified: 8/21/2014 4:27:22 PM

Electrophoresis File Run Summary



Instrument Information:

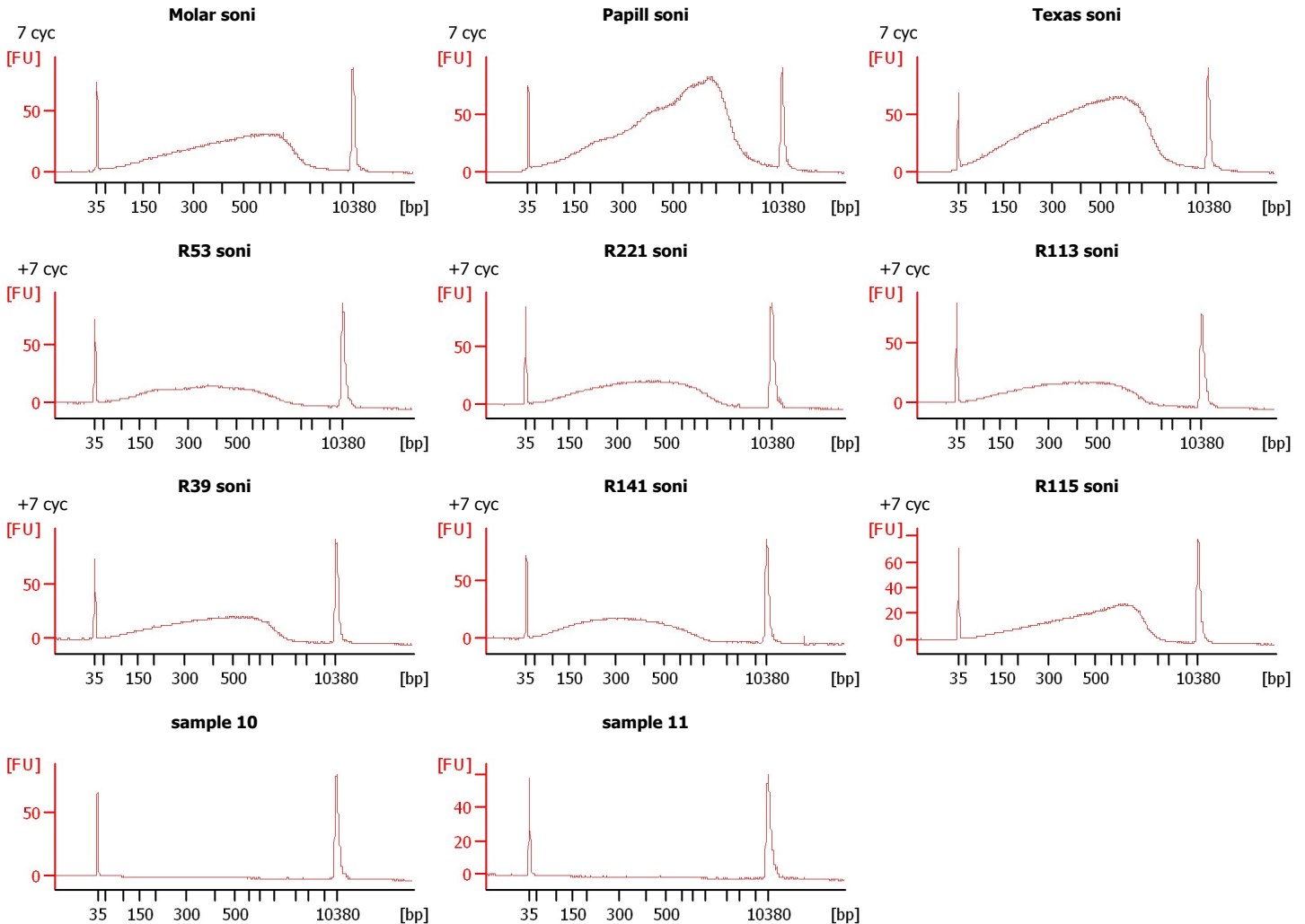
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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 4:27:22 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 soni	+7 cyc	<input type="checkbox"/>	✓			
R141 soni	+7 cyc	<input type="checkbox"/>	✓			
R115 soni	+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 4:27:22 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

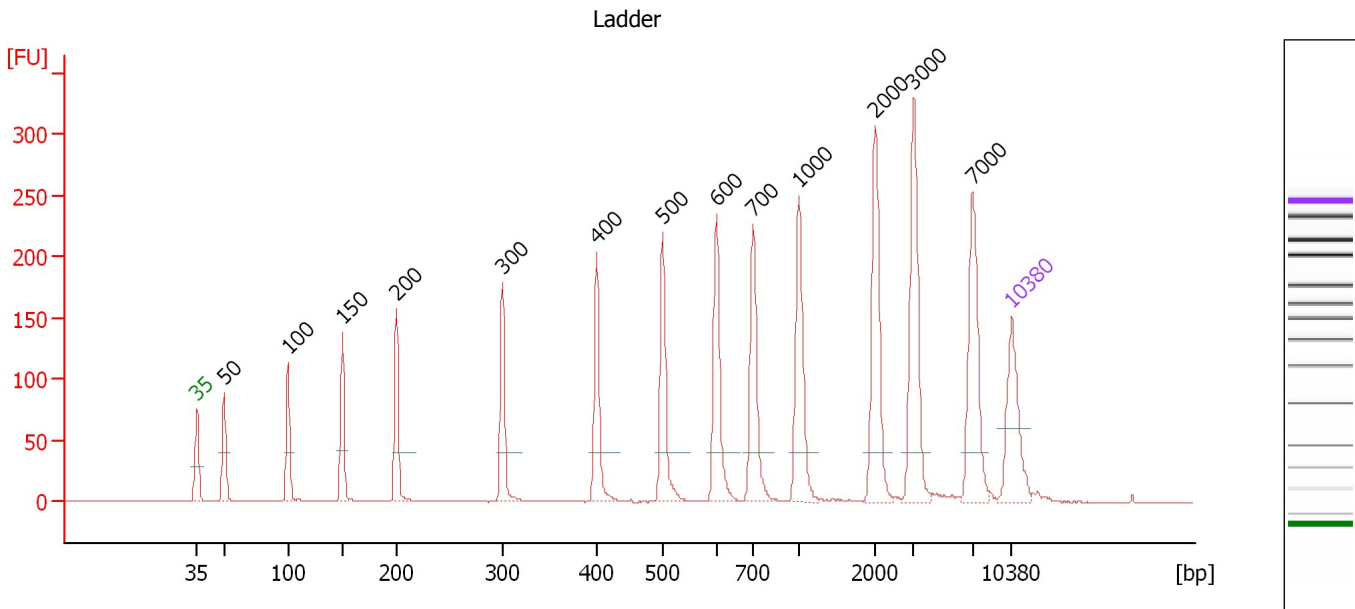
Ladder

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

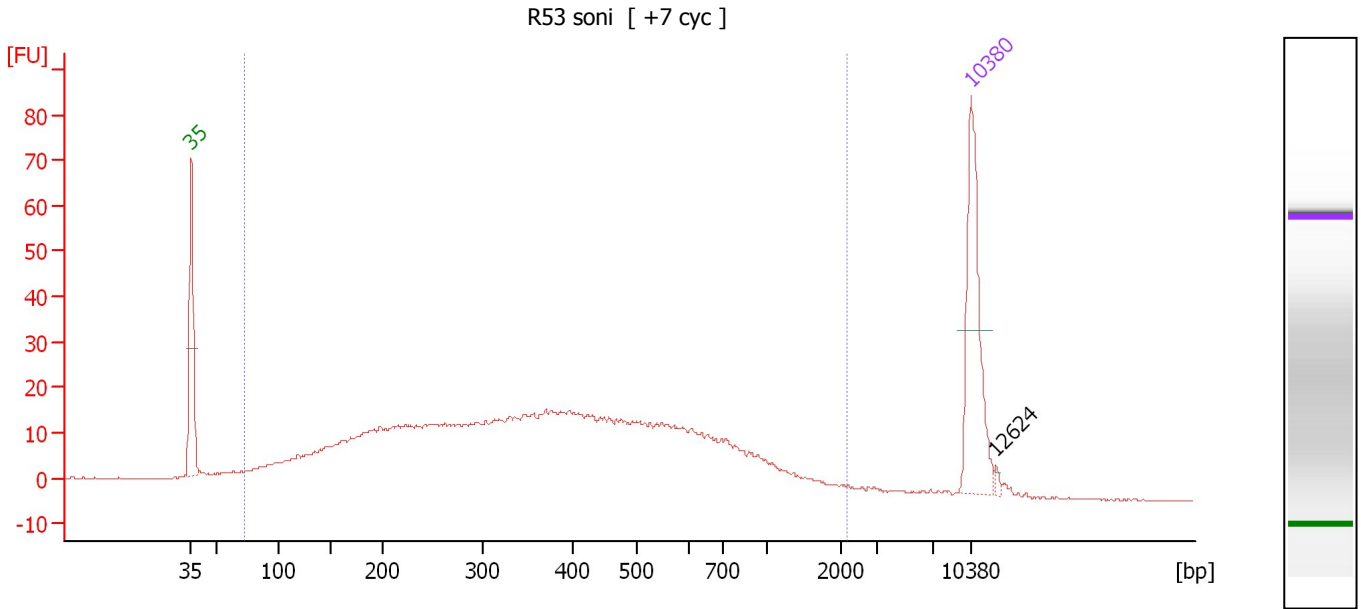
Peak table for Ladder

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 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	

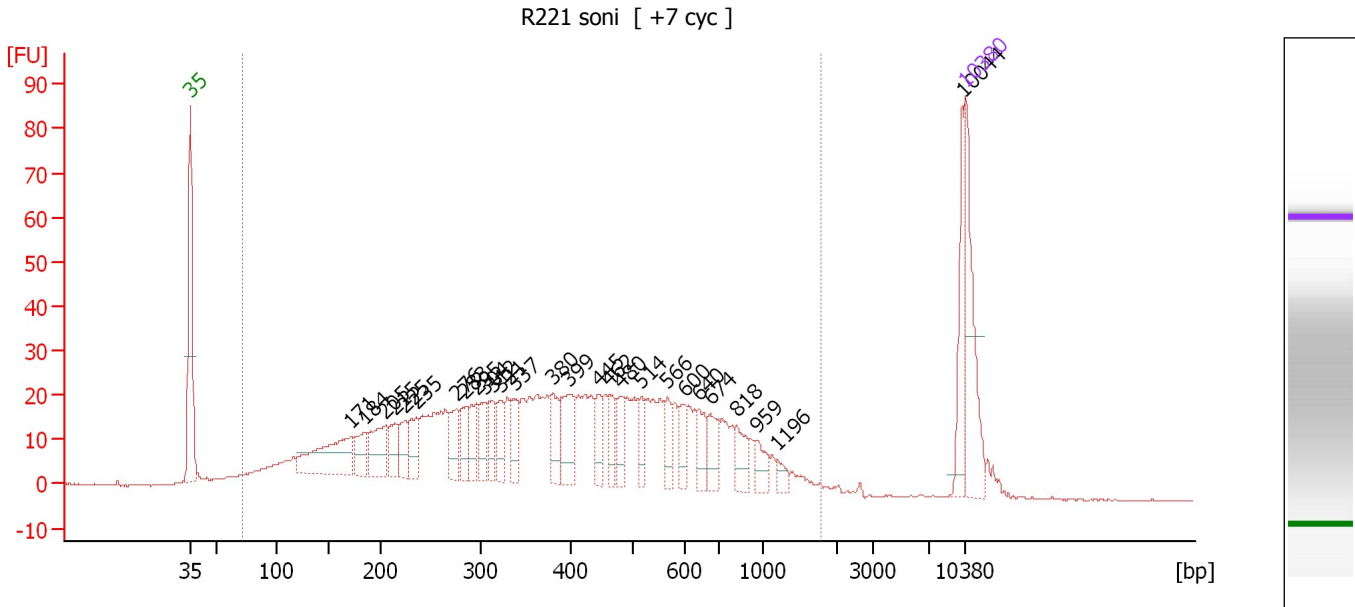
Region table for sample 4 : R53 soni

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 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

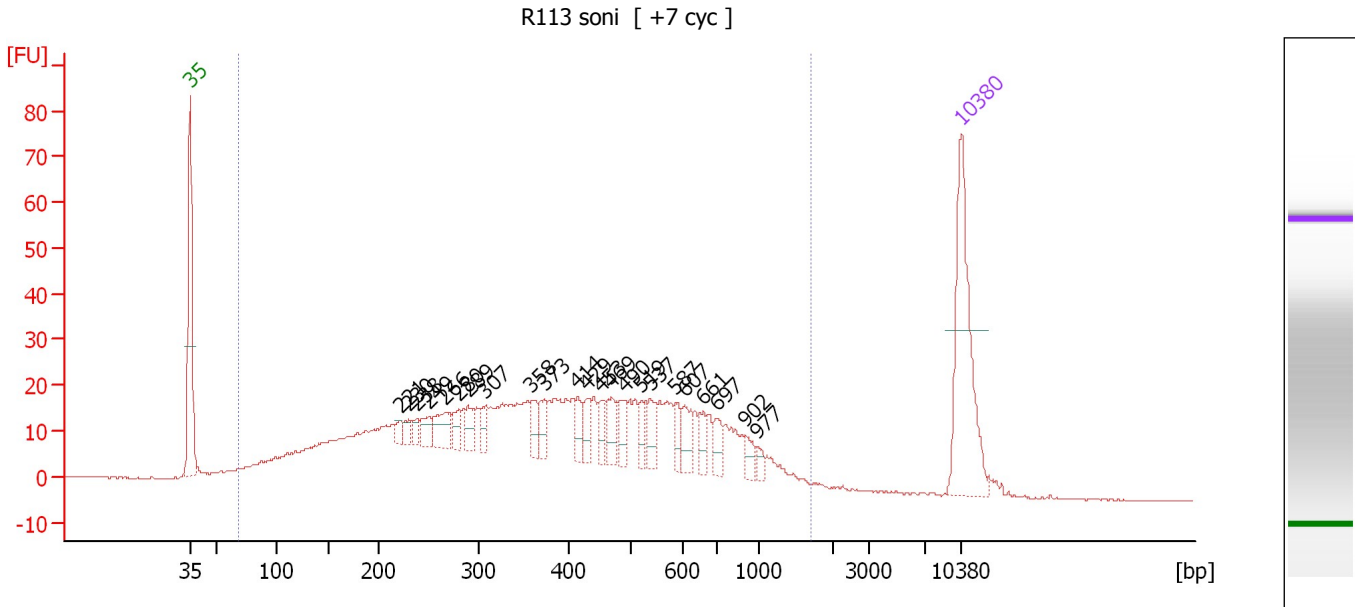
Region table for sample 5 : R221 soni

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 PM

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 4:27:22 PM

Electropherogram Summary Continued ...

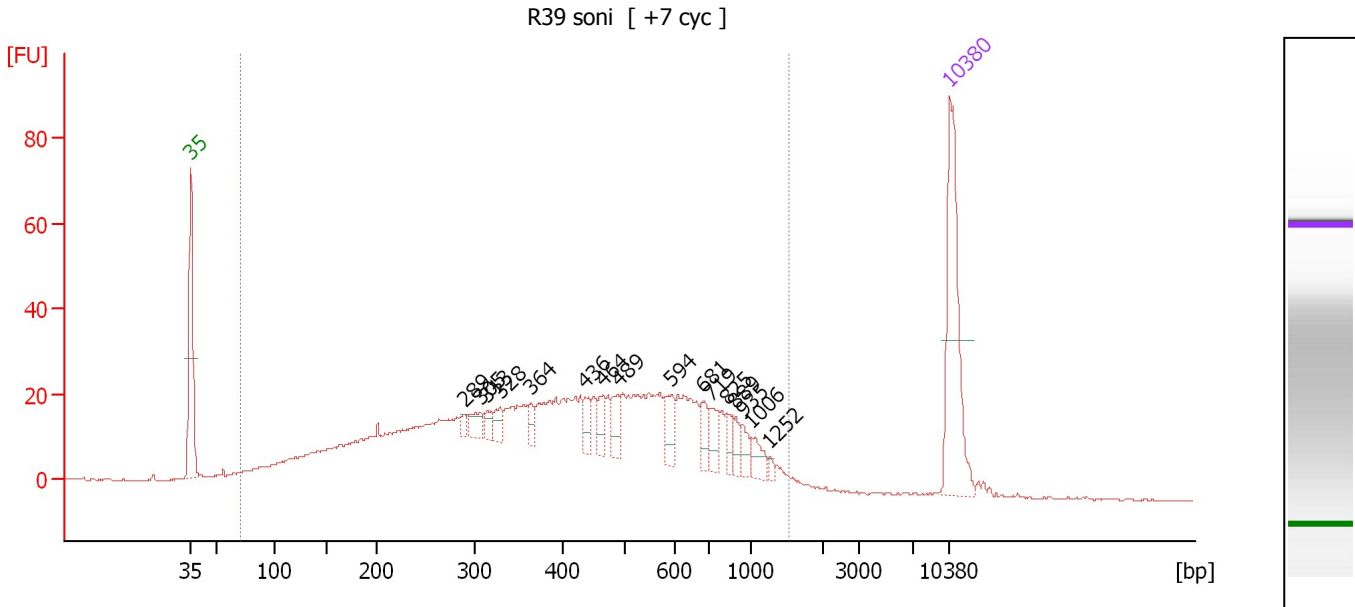
... Region table for sample 6 : R113 soni

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : R39 soni

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

Peak table for sample 7 : R39 soni

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

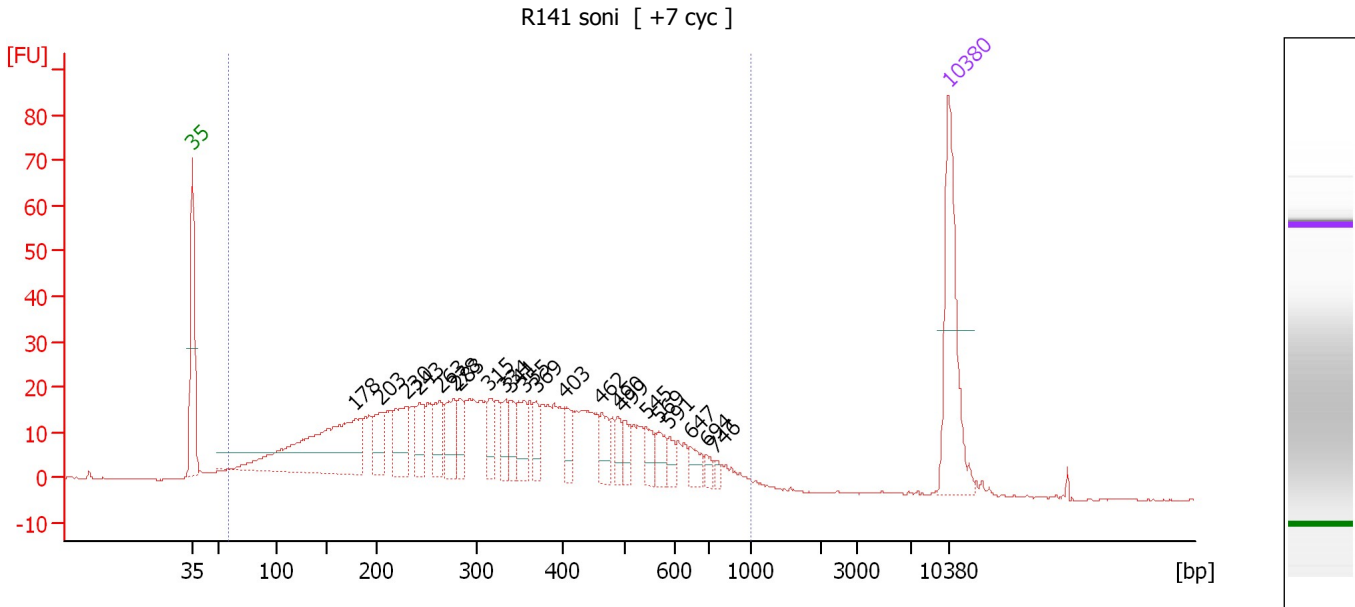
Region table for sample 7 : R39 soni

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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : R141 soni

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

Peak table for sample 8 : R141 soni


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
Modified: 8/21/2014 4:27:22 PM

Electropherogram Summary Continued ...

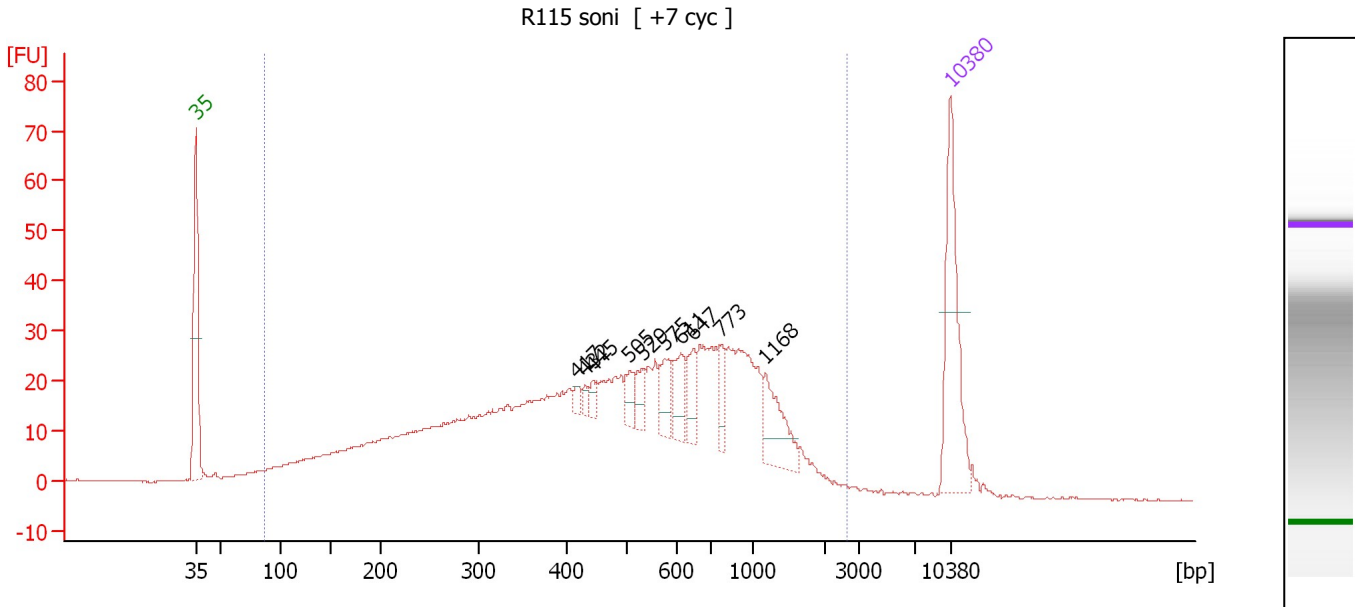
... Region table for sample 8 : R141 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
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

Created: 8/21/2014 3:36:49 PM
 Modified: 8/21/2014 4:27:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : R115 soni

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

Peak table for sample 9 : R115 soni

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

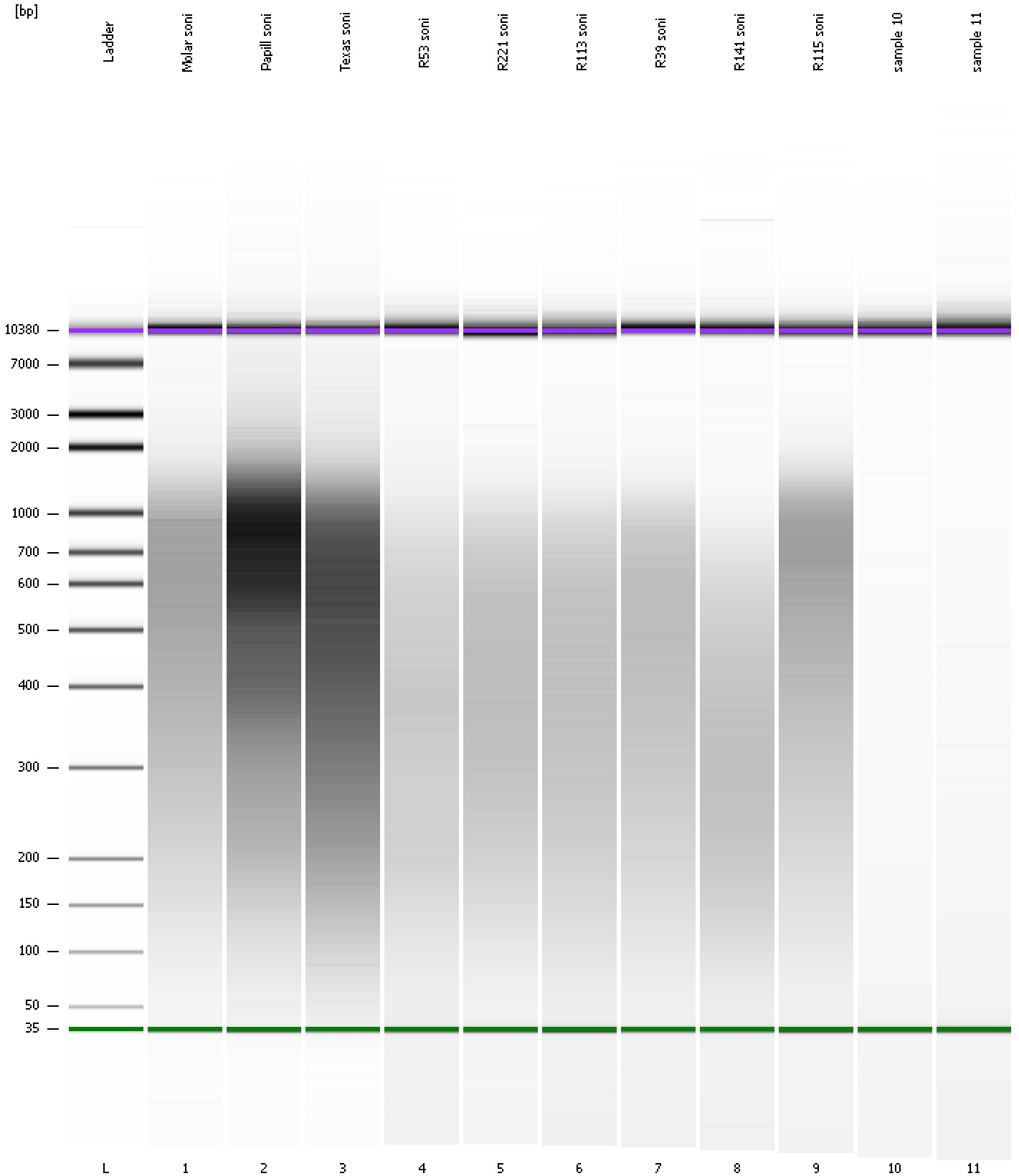
Region table for sample 9 : R115 soni

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 4:27:22 PM

Gel Image

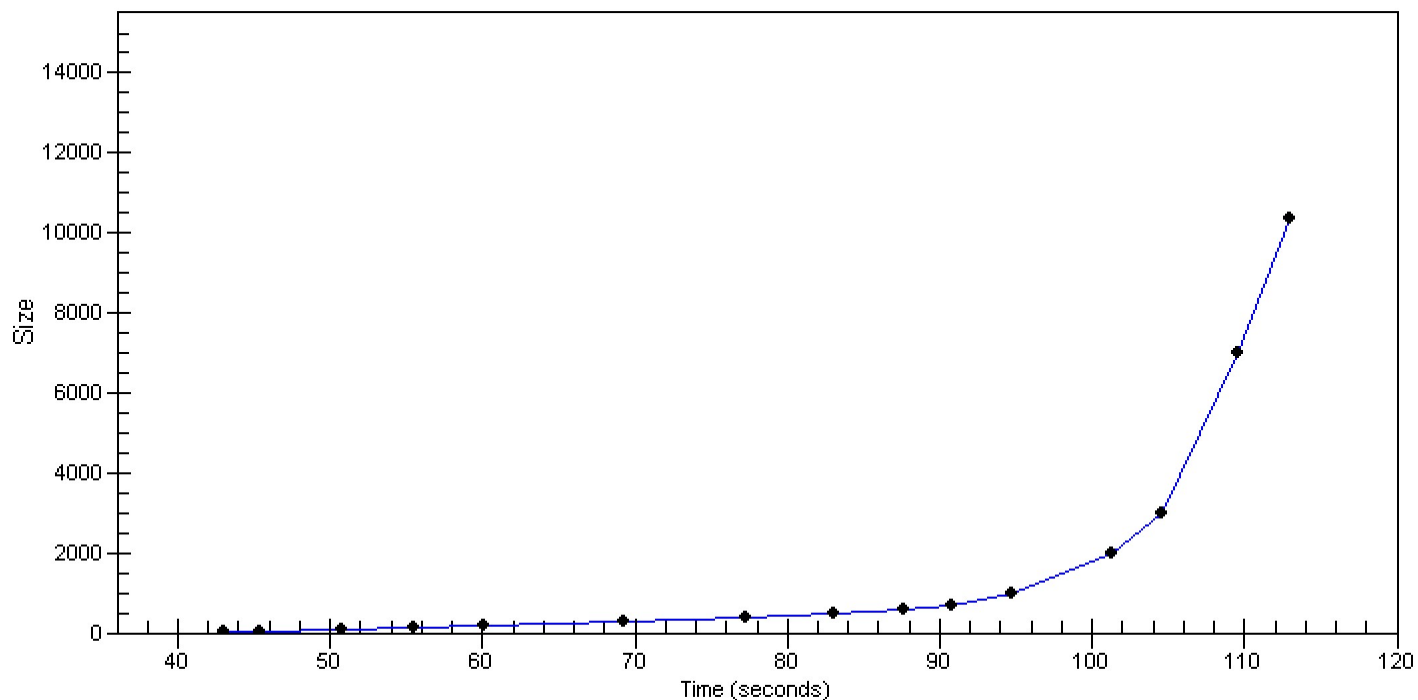


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_005.xad

Created: 8/21/2014 3:36:49 PM
Modified: 8/21/2014 4:27:22 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 4:27:22 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