

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
Modified: 7/25/2013 5:17:15 PM

Electrophoresis File Run Summary

Instrument Information:

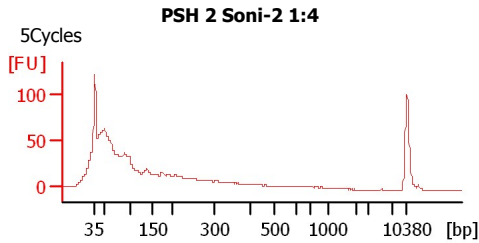
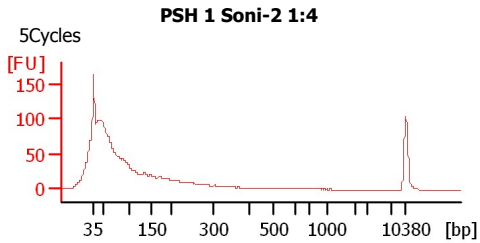
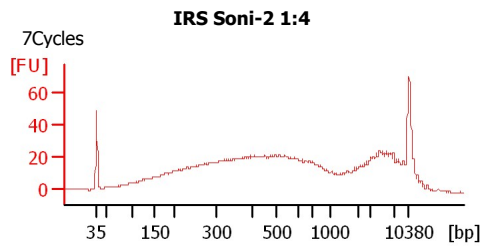
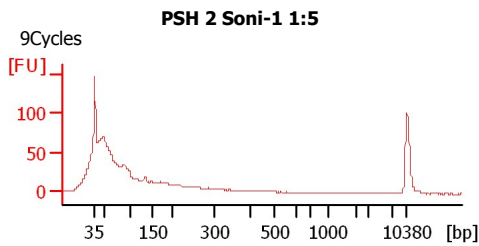
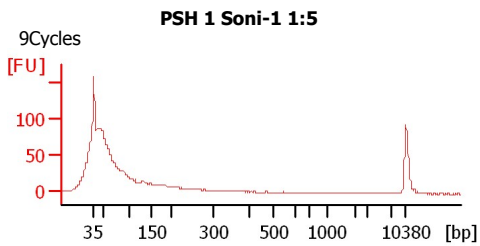
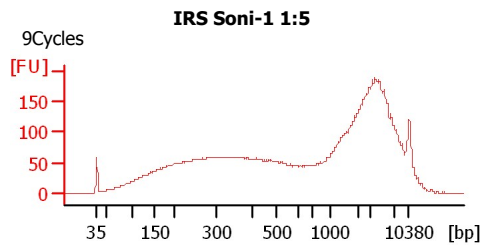
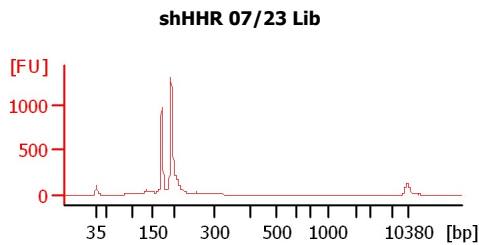
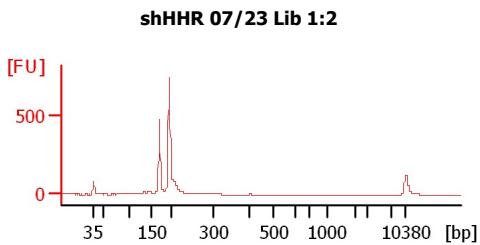
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
Modified: 7/25/2013 5:17:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
shHHR 07/23 Lib 1:2		<input type="checkbox"/>	✓			
shHHR 07/23 Lib		<input type="checkbox"/>	✓			
IRS Soni-1 1:5	9Cycles	<input type="checkbox"/>	✓			
PSH 1 Soni-1 1:5	9Cycles	<input type="checkbox"/>	✓			
PSH 2 Soni-1 1:5	9Cycles	<input type="checkbox"/>	✓			
IRS Soni-2 1:4	7Cycles	<input type="checkbox"/>	✓			
PSH 1 Soni-2 1:4	5Cycles	<input type="checkbox"/>	✓			
PSH 2 Soni-2 1:4	5Cycles	<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

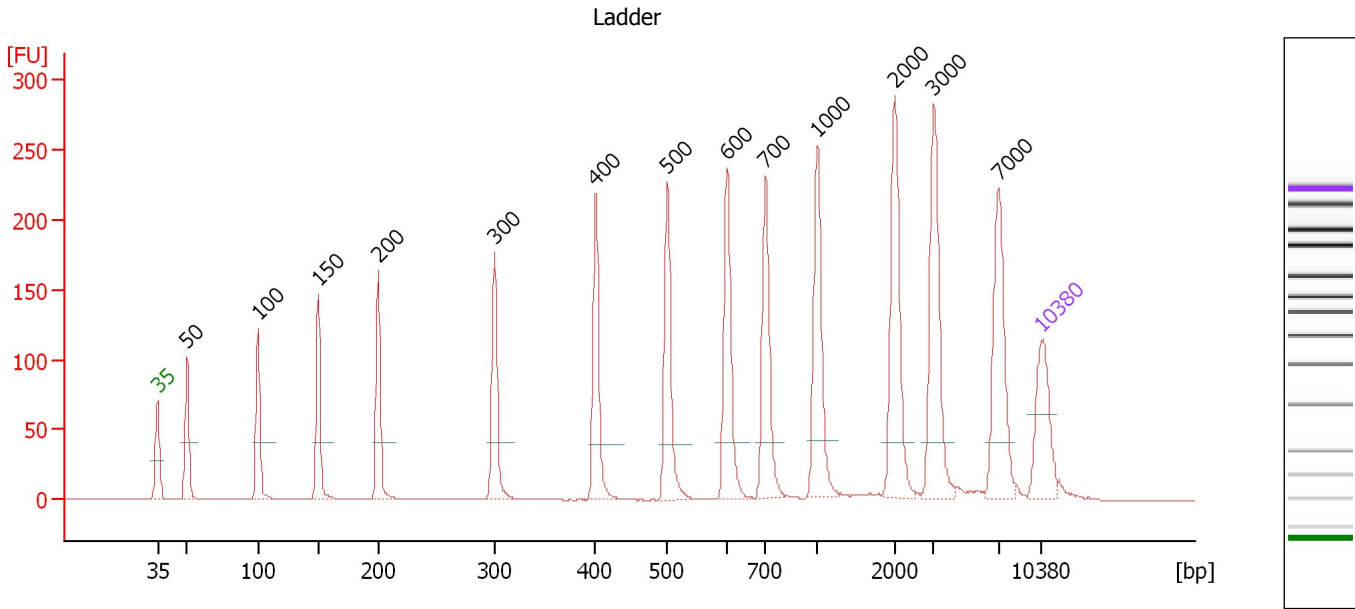
Ladder

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

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 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

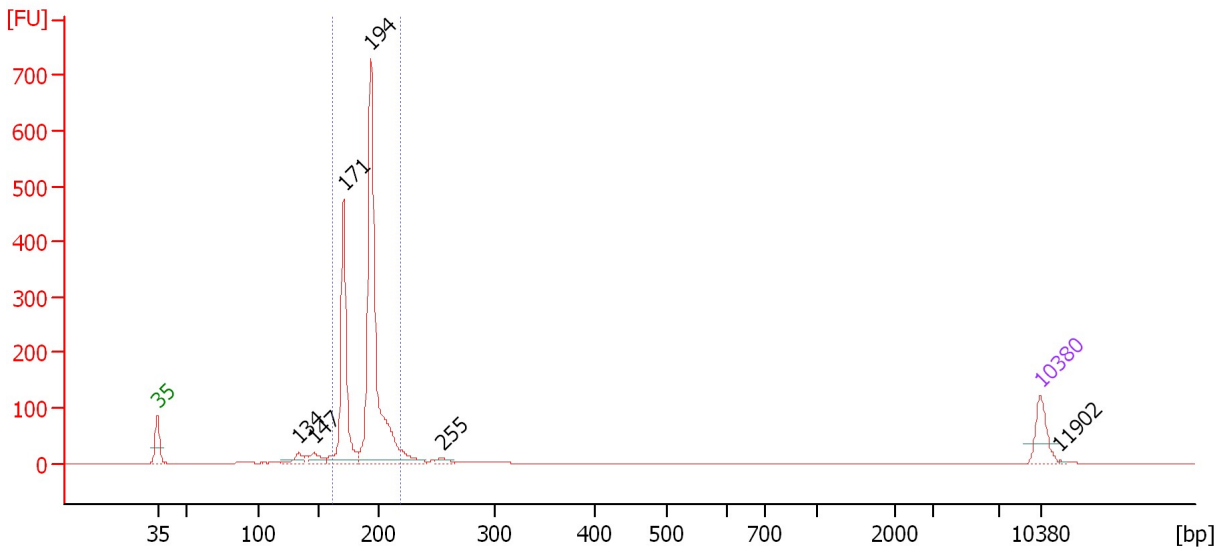
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	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

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 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...

shHHR 07/23 Lib 1:2



Overall Results for sample 1 : shHHR 07/23 Lib 1:2

Number of peaks found: 6 Corr. Area 1: 1,391.1
 Noise: 0.2

Peak table for sample 1 : shHHR 07/23 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	134	34.60	392.2	
3	147	41.93	433.5	
4	171	550.36	4,875.6	
5	194	1,154.62	9,034.9	
6	255	18.71	111.0	
7	10,380	75.00	10.9	Upper Marker
8	11,902	0.00	0.0	

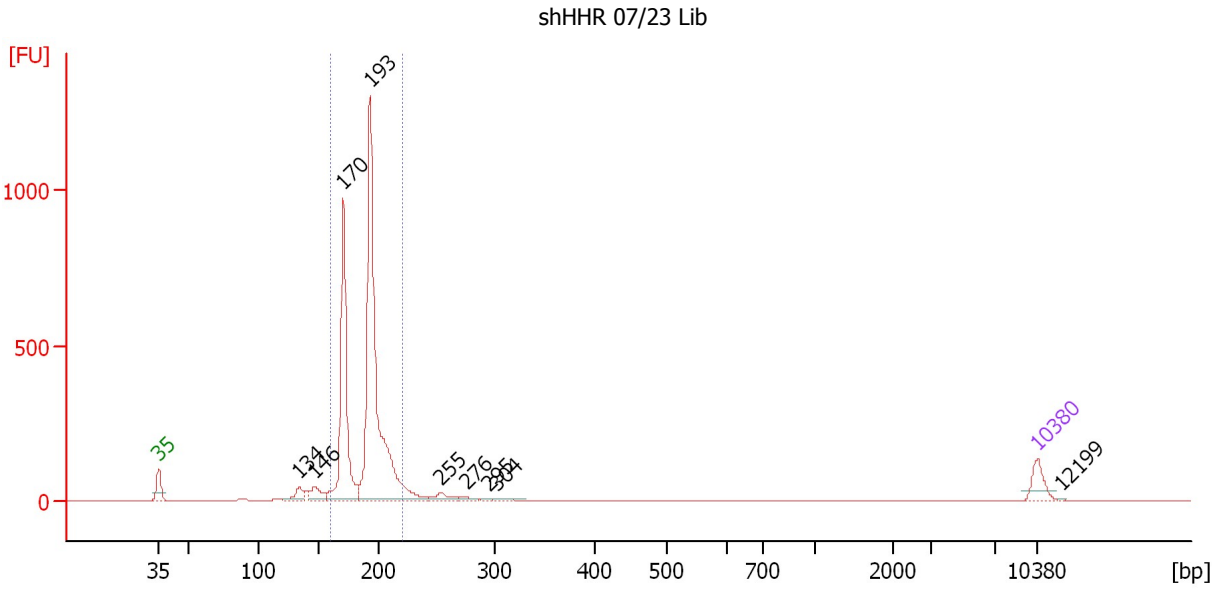
Region table for sample 1 : shHHR 07/23 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
162	220	189	13,199.9	1,641.94	1,391.1	88	6.9	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : shHHR 07/23 Lib

Number of peaks found: 9 Corr. Area 1: 2,819.7
 Noise: 0.1

Peak table for sample 2 : shHHR 07/23 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	134	69.80	791.9	
3	146	86.14	893.5	
4	170	991.57	8,819.9	
5	193	1,923.00	15,119.7	
6	255	49.04	291.9	
7	276	16.73	92.0	
8	295	6.77	34.8	
9	304	13.23	66.0	
10	10,380	75.00	10.9	Upper Marker
11	12,199	0.00	0.0	

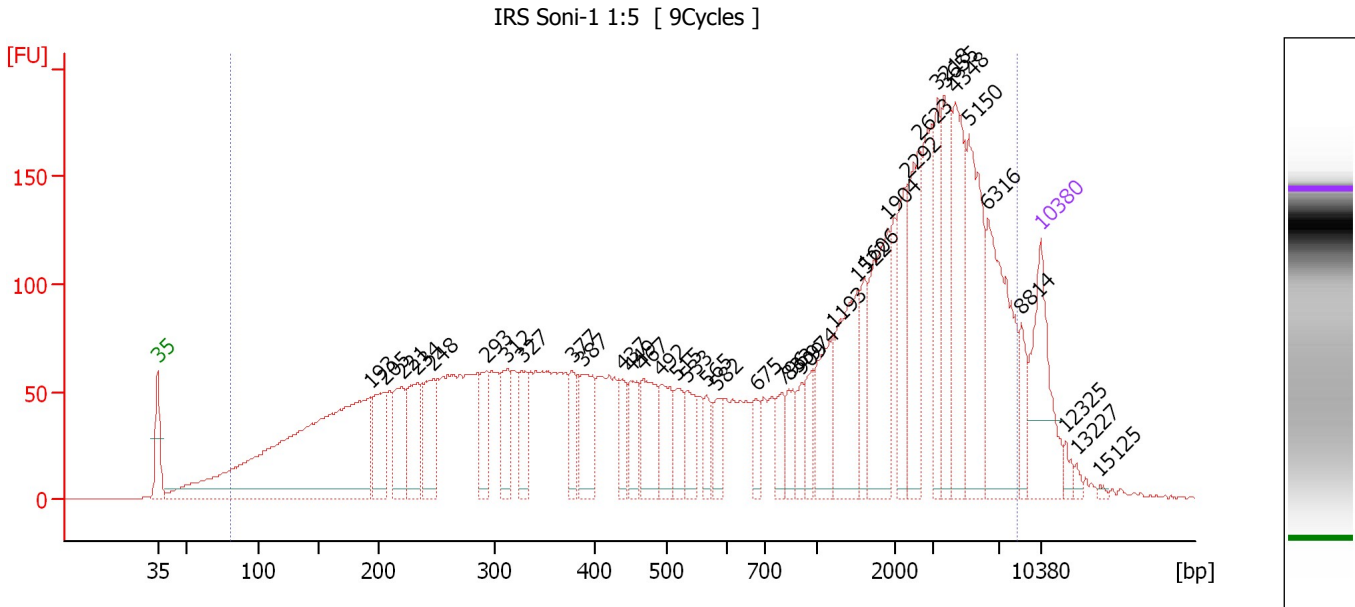
Region table for sample 2 : shHHR 07/23 Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
160	221	188	22,679.6	2,809.46	2,819.7	87	7.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : IRS Soni-1 1:5

Number of peaks found: 38 Corr. Area 1: 5,197.8
 Noise: 0.1

Peak table for sample 3 : IRS Soni-1 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	533.44	4,180.9	
3	205	72.59	537.0	
4	221	64.07	440.0	
5	234	79.23	513.4	
6	248	76.09	465.6	
7	293	43.92	227.2	
8	312	53.58	259.9	
9	327	43.27	200.2	
10	377	35.73	143.8	
11	387	64.09	250.9	
12	437	31.12	107.9	
13	449	40.46	136.4	
14	467	61.65	200.2	
15	492	47.01	144.7	
16	515	33.73	99.2	
17	533	31.80	90.4	
18	565	22.78	61.1	
19	582	26.46	68.9	
20	675	18.56	41.7	
21	796	22.73	43.3	
22	833	24.52	44.6	
23	909	20.22	33.7	
24	974	24.41	38.0	
25	1,193	54.88	69.7	
26	1,522	90.72	90.3	

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Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : IRS Soni-1 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,606	30.46	28.7	
28	1,904	96.35	76.7	
29	2,292	54.22	35.8	
30	2,623	79.69	46.0	
31	3,218	49.52	23.3	
32	3,655	69.84	29.0	
33	4,348	85.77	29.9	
34	5,150	108.17	31.8	
35	6,316	122.38	29.4	
36	8,814	23.36	4.0	
37	10,380	75.00	10.9	Upper Marker
38	12,325	0.00	0.0	
39	13,227	0.00	0.0	
40	15,125	0.00	0.0	

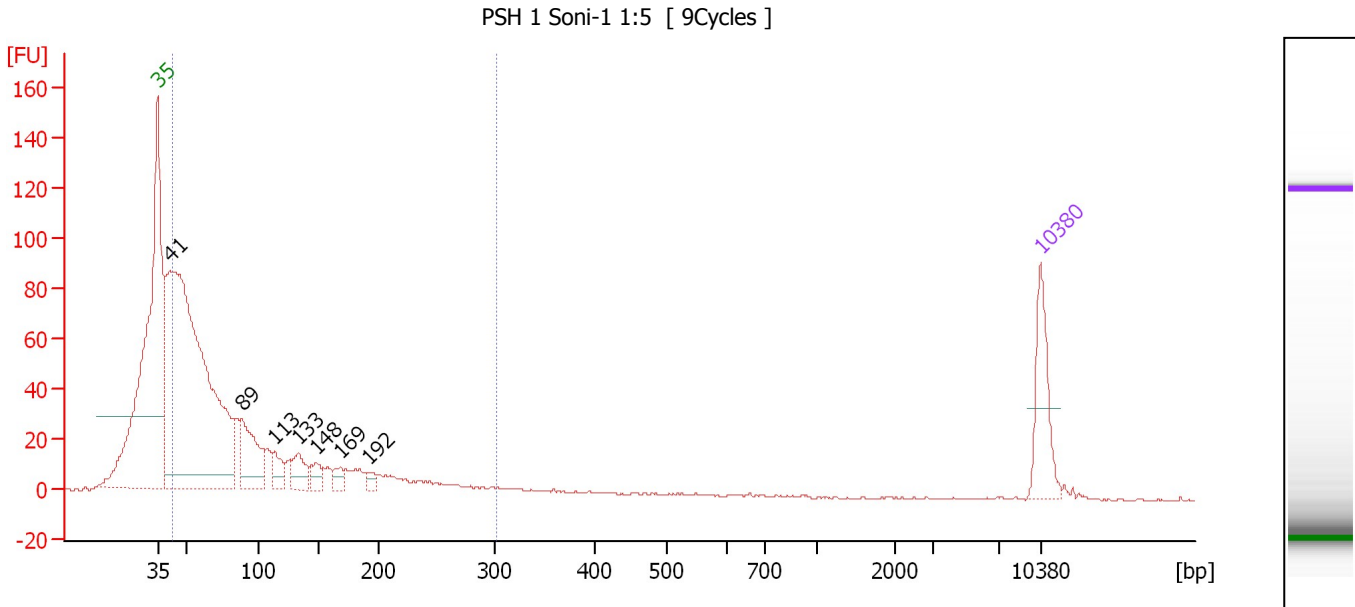
Region table for sample 3 : IRS Soni-1 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
80	8,454	1,869	14,378.0	3,219.85	5,197.8	96	100.0	■

Assay Class: High Sensitivity DNA Assay
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Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : PSH 1 Soni-1 1:5

Number of peaks found: 7 Corr. Area 1: 979.2
 Noise: 0.4

Peak table for sample 4 : PSH 1 Soni-1 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	1,339.29	48,994.6	
3	89	151.41	2,591.5	
4	113	42.86	574.9	
5	133	52.31	594.0	
6	148	30.70	314.5	
7	169	21.55	193.7	
8	192	12.66	100.0	
9	10,380	75.00	10.9	Upper Marker

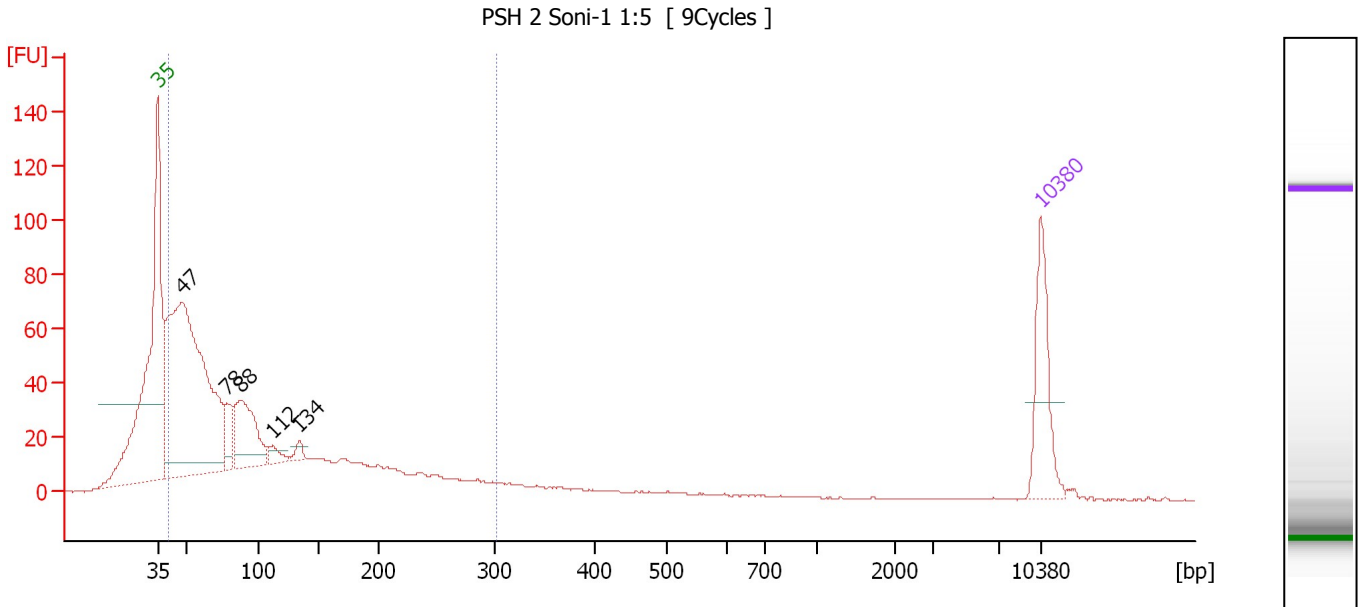
Region table for sample 4 : PSH 1 Soni-1 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
42	302	93	36,141.5	1,647.15	979.2	87	61.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PSH 2 Soni-1 1:5

Number of peaks found: 5 Corr. Area 1: 1,035.1
 Noise: 0.3

Peak table for sample 5 : PSH 2 Soni-1 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	744.21	23,771.0	
3	78	45.97	889.1	
4	88	141.11	2,434.3	
5	112	18.87	255.1	
6	134	12.08	136.7	
7	10,380	75.00	10.9	Upper Marker

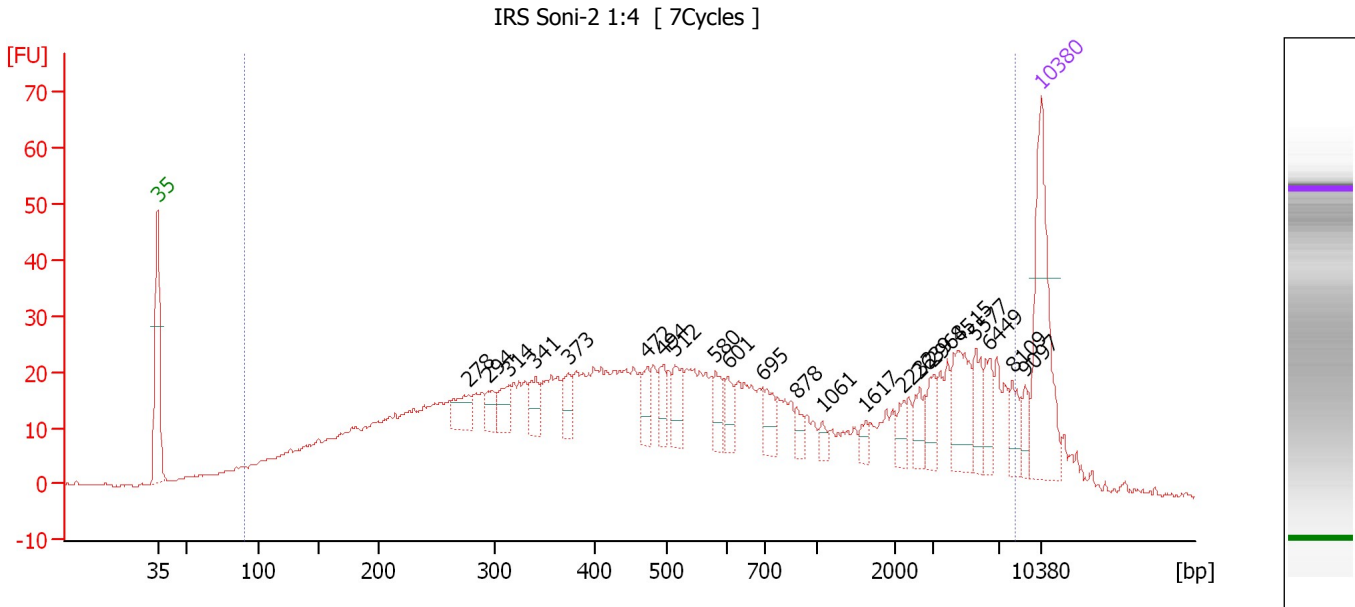
Region table for sample 5 : PSH 2 Soni-1 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
41	302	105	29,890.6	1,445.30	1,035.1	91	62.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : IRS Soni-2 1:4

Number of peaks found: 22 Corr. Area 1: 1,246.4
 Noise: 0.2

Peak table for sample 6 : IRS Soni-2 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	23.36	127.4	
3	294	15.58	80.2	
4	314	18.42	88.9	
5	341	18.93	84.1	
6	373	16.90	68.6	
7	472	18.09	58.0	
8	494	17.43	53.5	
9	512	23.03	68.1	
10	580	17.85	46.6	
11	601	13.66	34.4	
12	695	17.06	37.2	
13	878	7.40	12.8	
14	1,061	5.78	8.3	
15	1,617	6.03	5.7	
16	2,232	9.39	6.4	
17	2,639	12.23	7.0	
18	2,968	15.22	7.8	
19	4,515	35.09	11.8	
20	5,577	18.71	5.1	
21	6,449	15.32	3.6	
22	8,109	13.61	2.5	
23	9,097	10.39	1.7	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...

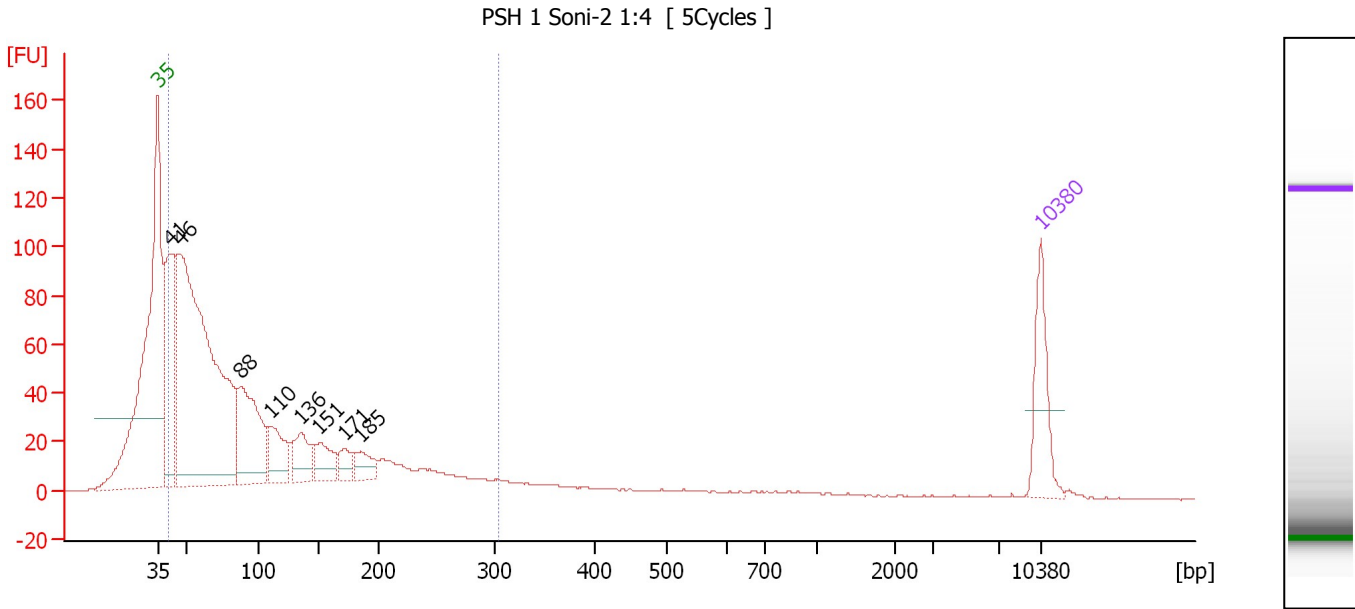
... Region table for sample 6 : IRS Soni-2 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
91	8,291	1,353	8,127.8	1,791.74	1,246.4	95	100.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : PSH 1 Soni-2 1:4

Number of peaks found: 8 Corr. Area 1: 1,459.0
 Noise: 0.3

Peak table for sample 7 : PSH 1 Soni-2 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	293.13	10,737.5	
3	46	1,054.48	34,393.0	
4	88	240.63	4,148.8	
5	110	99.83	1,379.6	
6	136	79.73	890.5	
7	151	61.47	617.8	
8	171	34.39	304.3	
9	185	41.32	337.6	
10	10,380	75.00	10.9	Upper Marker

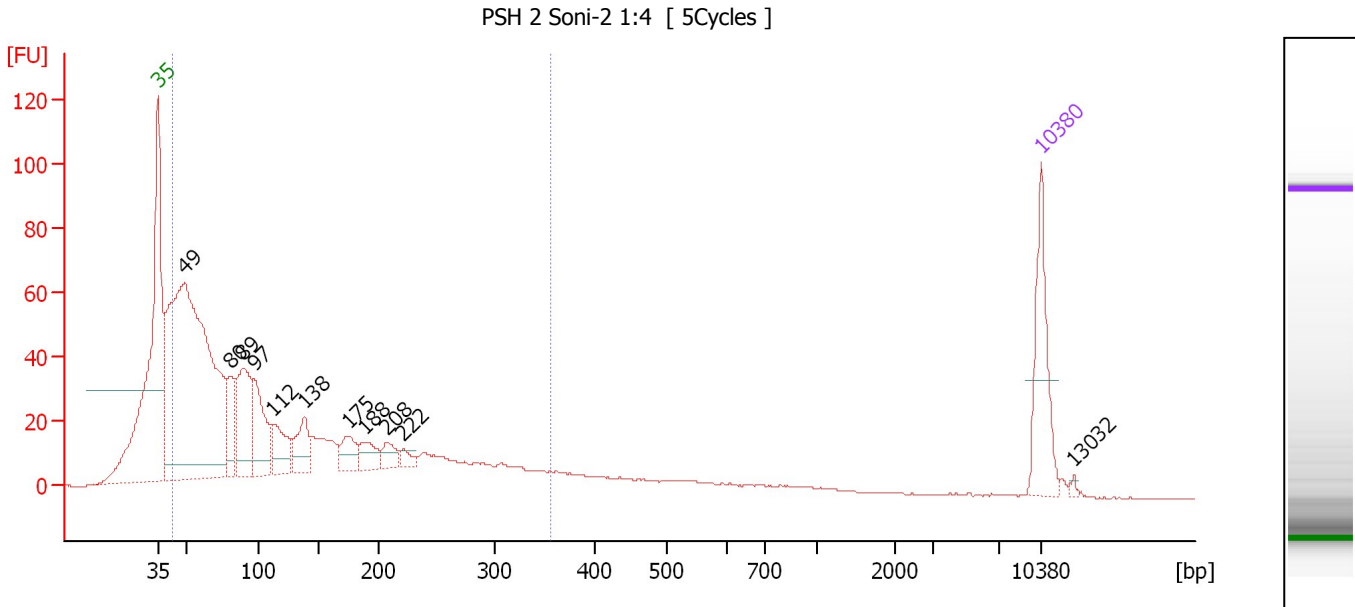
Region table for sample 7 : PSH 1 Soni-2 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
41	305	105	44,824.0	2,175.77	1,459.0	88	62.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : PSH 2 Soni-2 1:4

Number of peaks found: 11 Corr. Area 1: 1,141.1
 Noise: 0.2

Peak table for sample 8 : PSH 2 Soni-2 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	874.39	27,301.3	
3	80	69.65	1,317.3	
4	89	140.66	2,381.5	
5	97	104.29	1,627.7	
6	112	63.86	861.2	
7	138	57.52	630.8	
8	175	36.76	317.8	
9	188	30.59	246.5	
10	208	21.44	156.2	
11	222	12.12	82.9	
12	10,380	75.00	10.9	Upper Marker
13	13,032	0.00	0.0	

Region table for sample 8 : PSH 2 Soni-2 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
42	356	130	33,102.9	1,816.49	1,141.1	86	64.2	Blue

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Created: 7/25/2013 4:38:05 PM
Modified: 7/25/2013 5:17:15 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad

Created: 7/25/2013 4:38:05 PM
Modified: 7/25/2013 5:17:15 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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Created: 7/25/2013 4:38:05 PM
 Modified: 7/25/2013 5:17:15 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		7/25/2013 5:10:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-25\2013-07-25_007.xad)		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2013 4:38:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1