

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-06-29\2017-06-29\_001\_HiSeq1022\_SizeSelectedSoniDNATest.xad

Created: 6/29/2017 9:20:05 AM  
Modified: 6/29/2017 10:09:17 AM

**Electrophoresis File Run Summary**

Instrument Information:

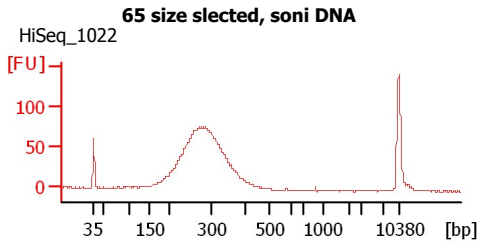
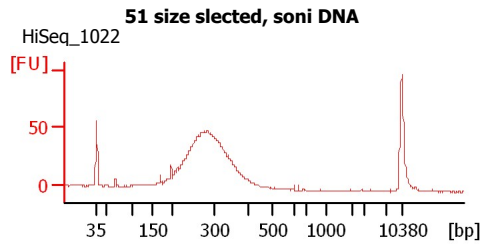
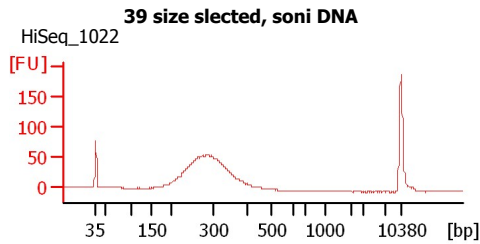
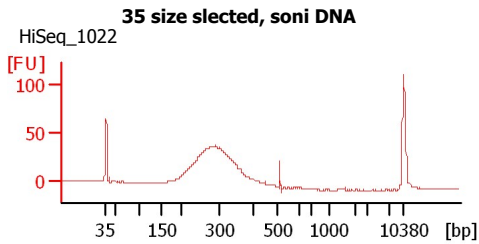
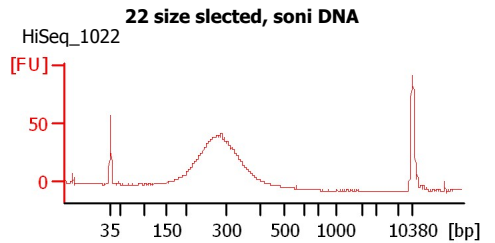
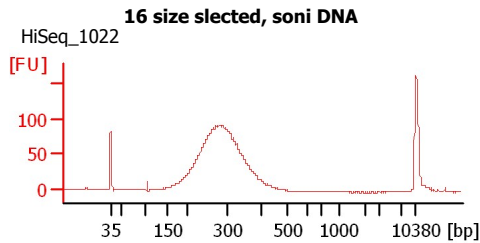
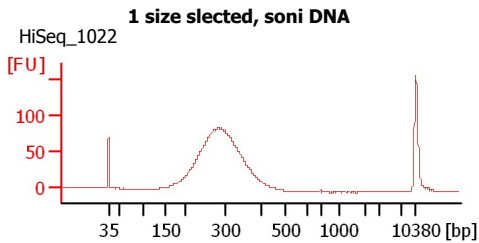
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
16 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
22 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
35 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
39 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
51 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
65 size slected, soni DNA	HiSeq_1022	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

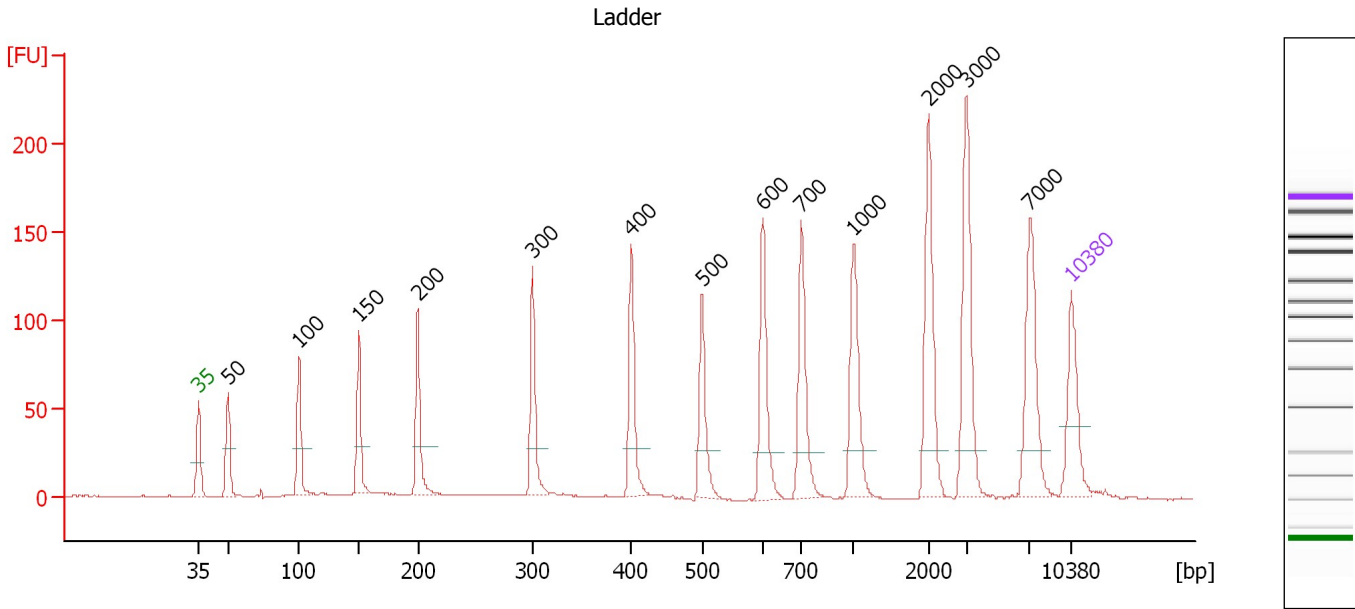
**Reagent Kit Lot #**

**Chip Comments :**

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

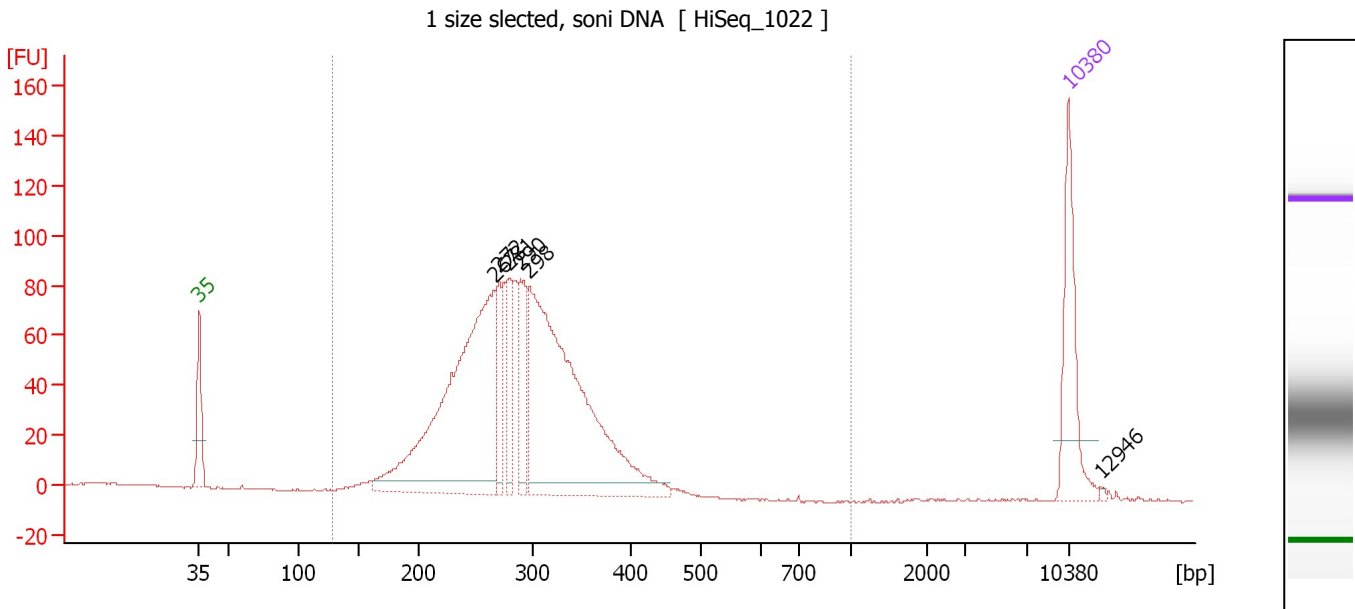
**Peak table for Ladder**

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.57
6	300	150.00	757.6	Ladder Peak	69.77
7	400	150.00	568.2	Ladder Peak	77.68
8	500	150.00	454.5	Ladder Peak	83.37
9	600	150.00	378.8	Ladder Peak	88.24
10	700	150.00	324.7	Ladder Peak	91.32
11	1,000	150.00	227.3	Ladder Peak	95.51
12	2,000	150.00	113.6	Ladder Peak	101.54
13	3,000	150.00	75.8	Ladder Peak	104.58
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1 size selected, soni DNA**

Number of peaks found: 6                      Corr. Area 1: 1,497.9  
 Noise: 0.3

**Peak table for sample 1 : 1 size selected, soni DNA**

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	267	475.57	2,698.8		66.73
3	272	61.44	342.7		67.16
4	281	66.43	358.8		67.98
5	290	77.88	407.1		68.84
6	298	500.05	2,544.1		69.57
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,946	0.00	0.0		115.53

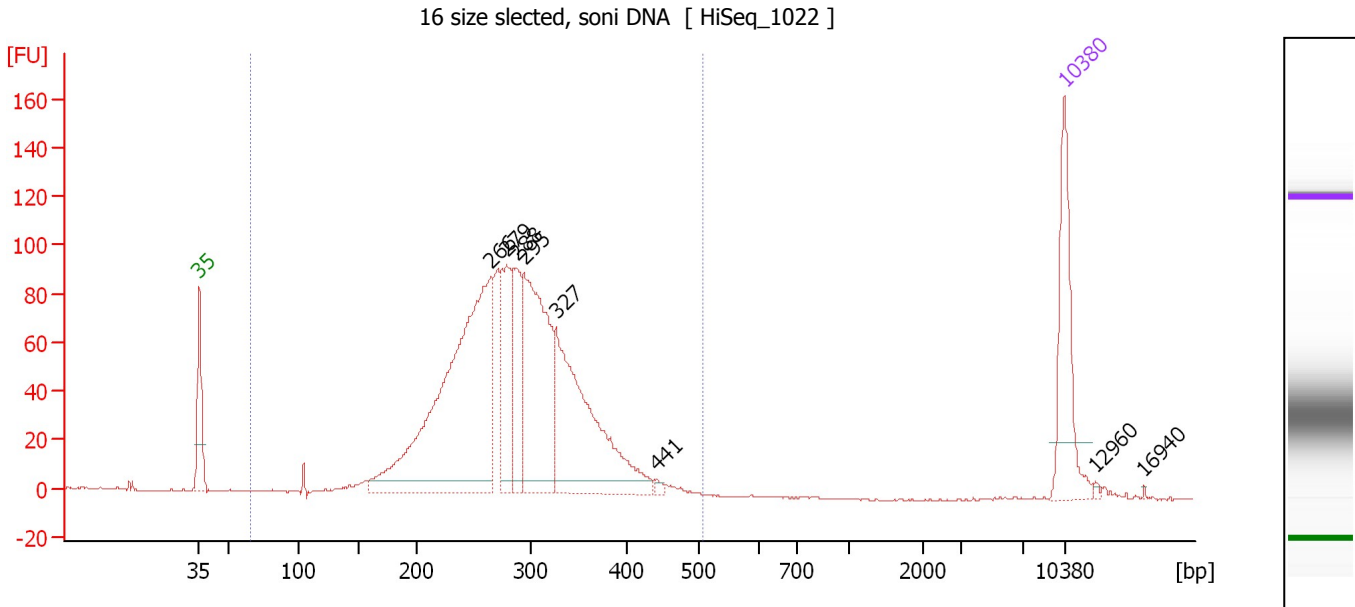
**Region table for sample 1 : 1 size selected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
129	1,000	288	1,497.9	6,679.0	1,214.81	99	18.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 16 size selected, soni DNA**

Number of peaks found: 8                      Corr. Area 1: 1,668.7  
 Noise: 0.2

**Peak table for sample 2 : 16 size selected, soni DNA**

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	266	483.41	2,757.6		66.61
3	279	118.12	640.9		67.86
4	288	73.48	387.0		68.64
5	295	236.42	1,215.5		69.28
6	327	245.98	1,141.2		71.87
7	441	3.50	12.0		79.99
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,960	0.00	0.0		115.55
10	16,940	0.00	0.0		119.47

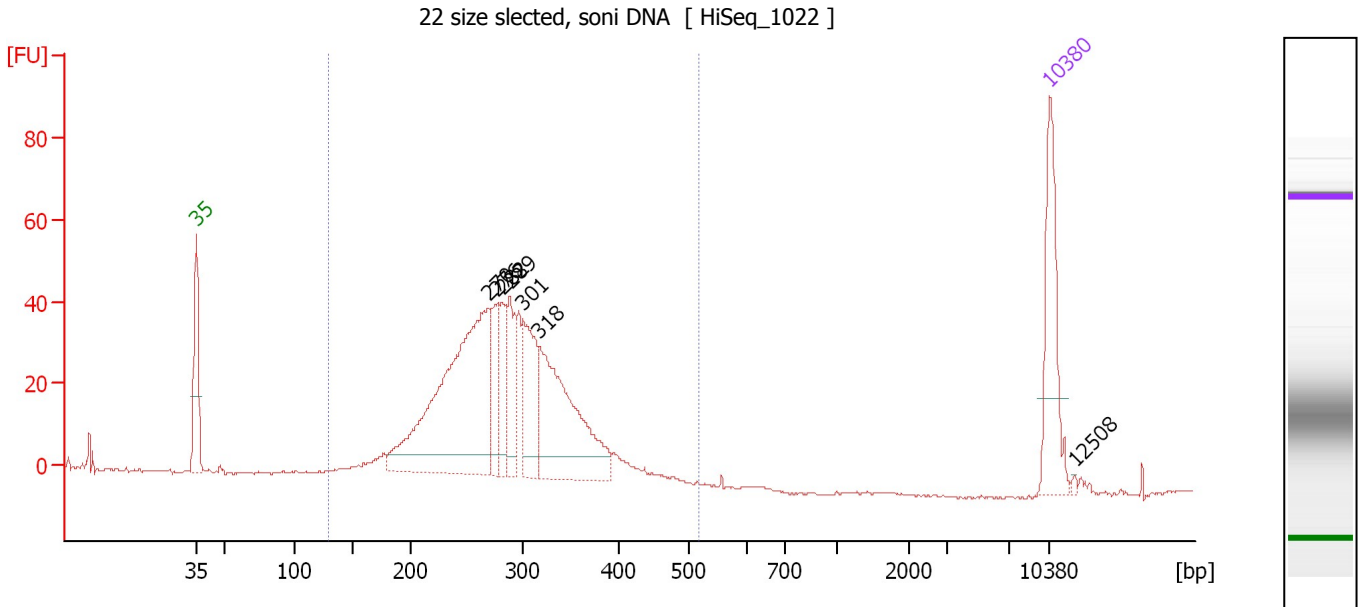
**Region table for sample 2 : 16 size selected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
66	507	286	1,668.7	6,999.2	1,253.58	99	19.2

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 22 size selected, soni DNA**

Number of peaks found: 7                      Corr. Area 1: 740.8  
 Noise: 0.3

**Peak table for sample 3 : 22 size selected, soni DNA**

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	270	388.27	2,182.0		66.97
3	276	53.04	290.9		67.59
4	282	52.82	283.8		68.11
5	289	61.64	323.0		68.77
6	301	88.64	446.7		69.82
7	318	207.79	990.7		71.17
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,508	0.00	0.0		115.10

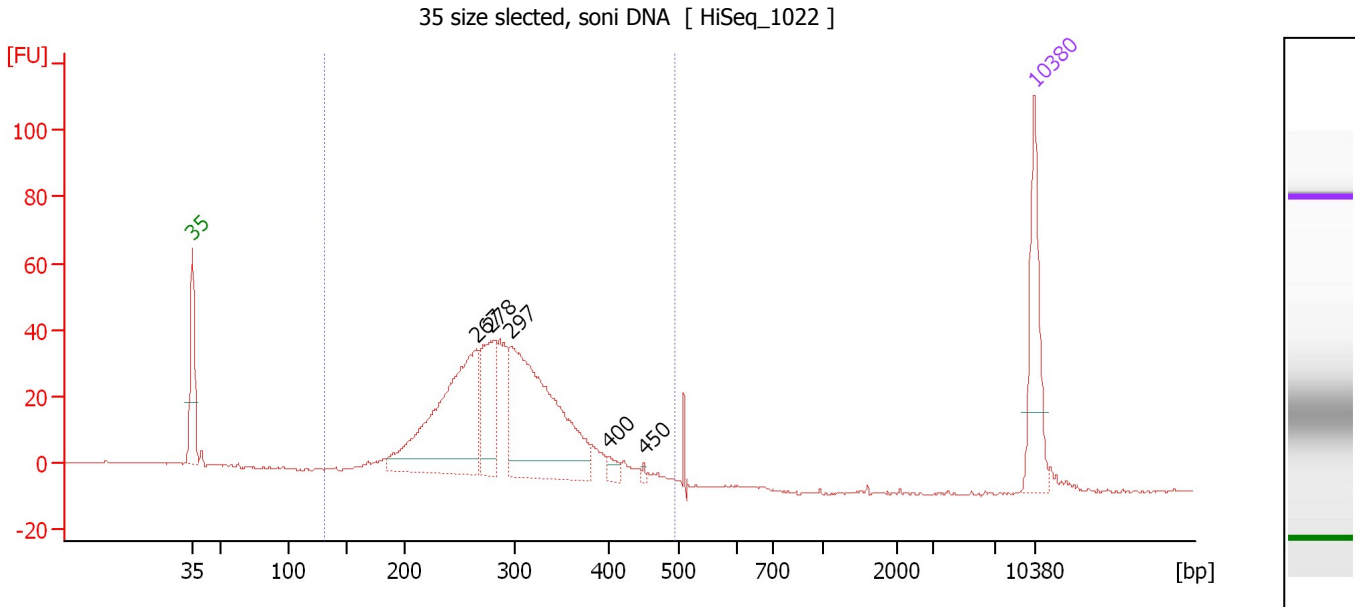
**Region table for sample 3 : 22 size selected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
129	517	284	740.8	5,452.6	974.76	98	18.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 35 size slected, soni DNA**

Number of peaks found: 5                      Corr. Area 1: 687.4  
 Noise: 0.2

**Peak table for sample 4 : 35 size slected, soni DNA**

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	267	303.81	1,725.2		66.72
3	278	114.55	623.4		67.78
4	297	323.35	1,648.5		69.51
5	400	11.31	42.9		77.67
6	450	3.42	11.5		80.55
7	10,380	75.00	10.9	Upper Marker	113.00

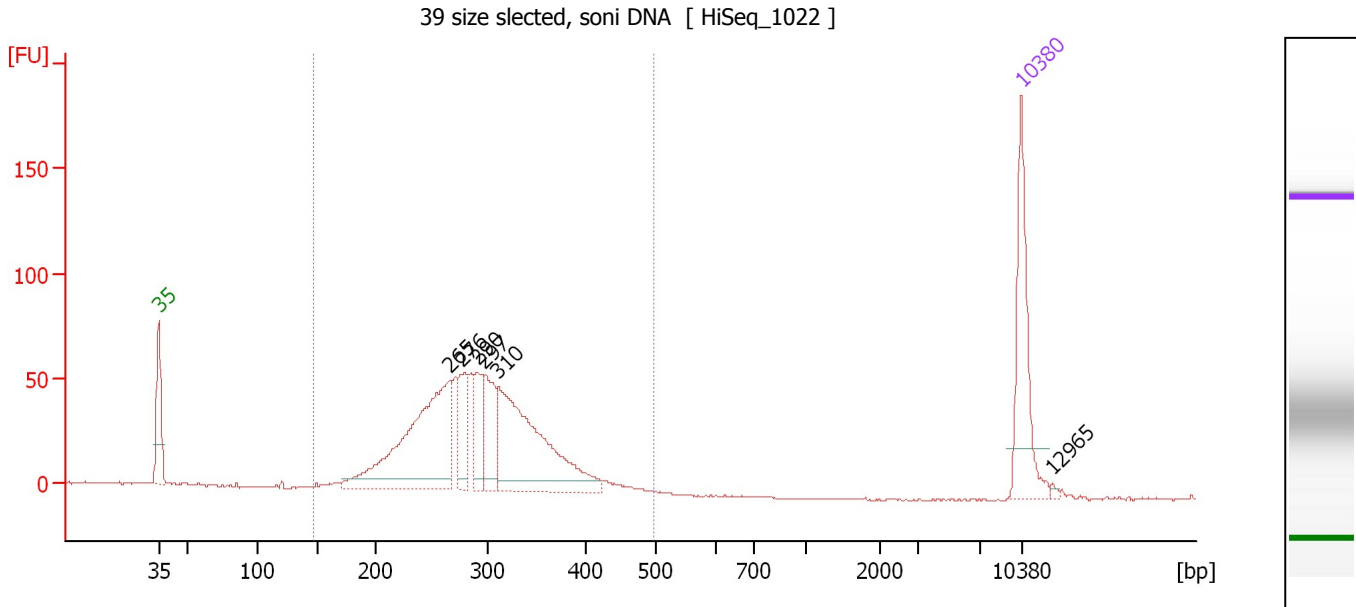
**Region table for sample 4 : 35 size slected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
130	495	290	687.4	4,683.3	858.82	95	18.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 39 size slected, soni DNA**

Number of peaks found: 6                      Corr. Area 1: 947.1  
 Noise: 0.2

**Peak table for sample 5 : 39 size slected, soni DNA**

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	265	244.57	1,396.2		66.59
3	276	50.05	275.1		67.53
4	290	43.28	226.0		68.87
5	297	60.05	306.8		69.45
6	310	213.37	1,044.3		70.53
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,965	0.00	0.0		115.55

**Region table for sample 5 : 39 size slected, soni DNA**

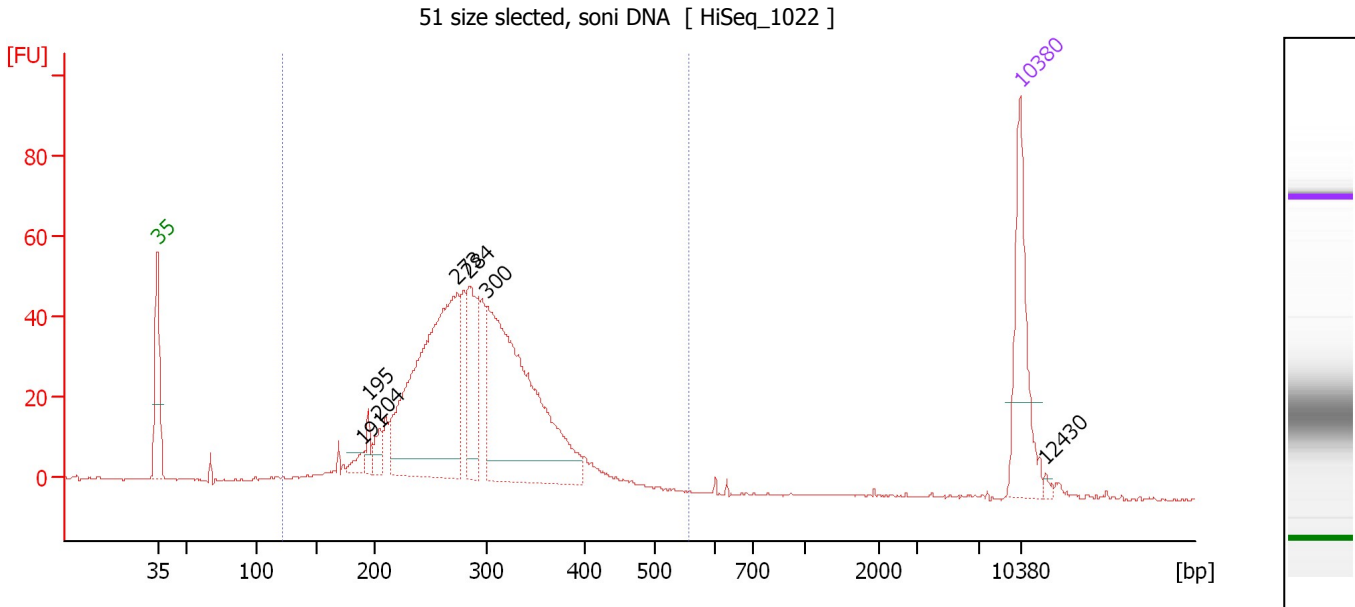
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
147	496	291	947.1	3,666.9	675.84	99	18.1



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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 51 size slected, soni DNA**

Number of peaks found: 7                      Corr. Area 1: 840.0  
 Noise: 0.2

**Peak table for sample 6 : 51 size slected, soni DNA**

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	191	12.70	101.0		59.68
3	195	12.95	100.7		60.08
4	204	18.27	135.4		60.98
5	273	355.47	1,970.0		67.32
6	284	91.90	490.0		68.31
7	300	346.82	1,752.8		69.75
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,430	0.00	0.0		115.02

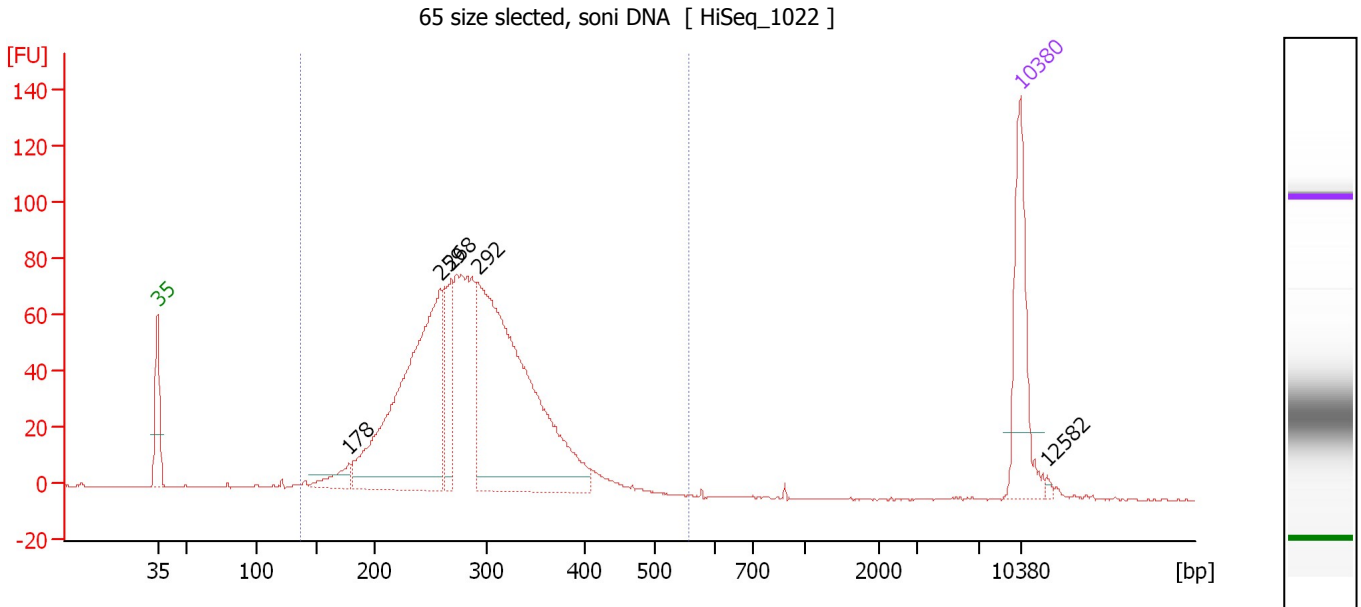
**Region table for sample 6 : 51 size slected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
122	557	287	840.0	5,749.8	1,036.49	99	18.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 65 size slected, soni DNA**

Number of peaks found: 5                      Corr. Area 1: 1,419.2  
 Noise: 0.3

**Peak table for sample 7 : 65 size slected, soni DNA**

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	178	25.02	212.4		58.53
3	259	375.64	2,197.3		66.00
4	268	75.93	428.6		66.86
5	292	460.70	2,394.4		68.99
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,582	0.00	0.0		115.17

**Region table for sample 7 : 65 size slected, soni DNA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
138	557	286	1,419.2	6,685.6	1,191.45	92	20.1

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**Gel Image**