

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...r1\_High Sensitivity DNA Assay\_2020-08-21\_001\_LibPrep013.xad

Created: 8/21/2020 4:18:04 PM  
 Modified: 8/21/2020 5:17:02 PM

**Electrophoresis File Run Summary**

Instrument Information:

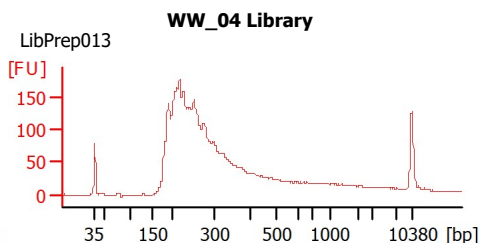
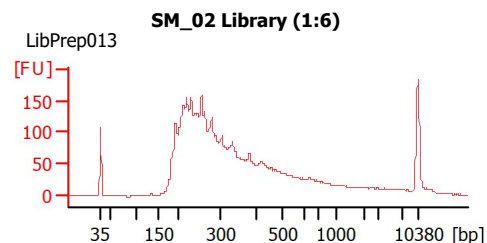
Instrument Name: DE34903152                      Firmware: C.01.069  
 Serial#: DE34903152                              Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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
SM_02 Library (1:6)	LibPrep013	<input type="checkbox"/>	✓			
WW_04 Library	LibPrep013	<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

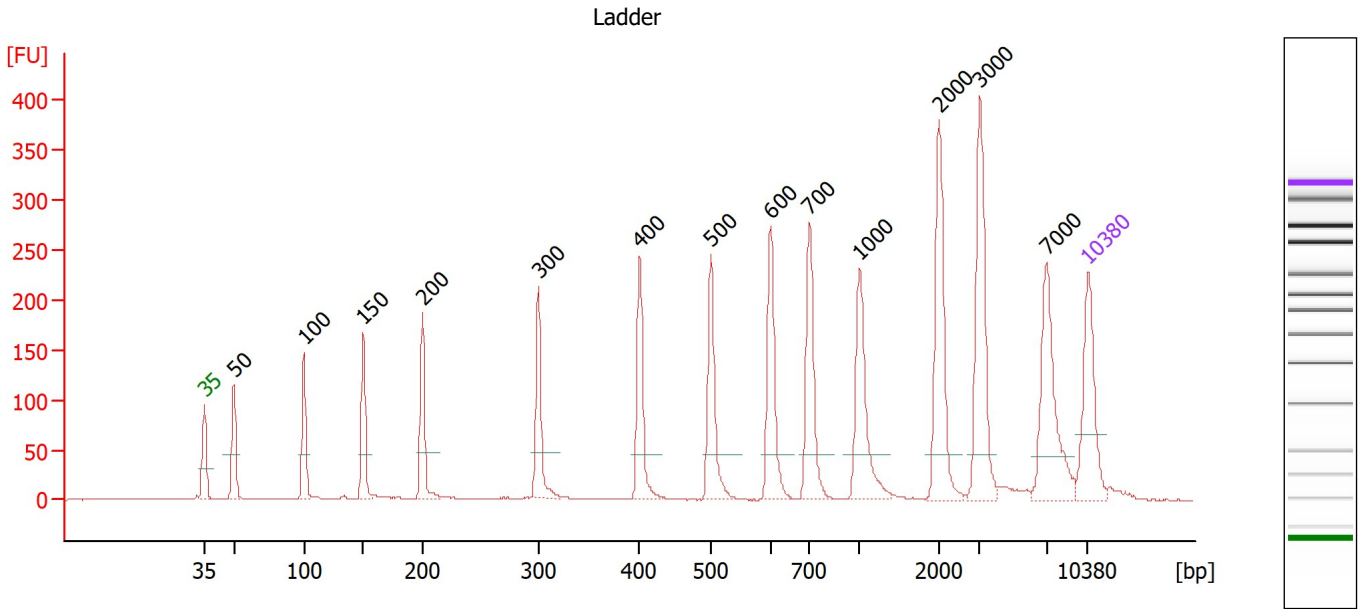
**Ladder**

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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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.4

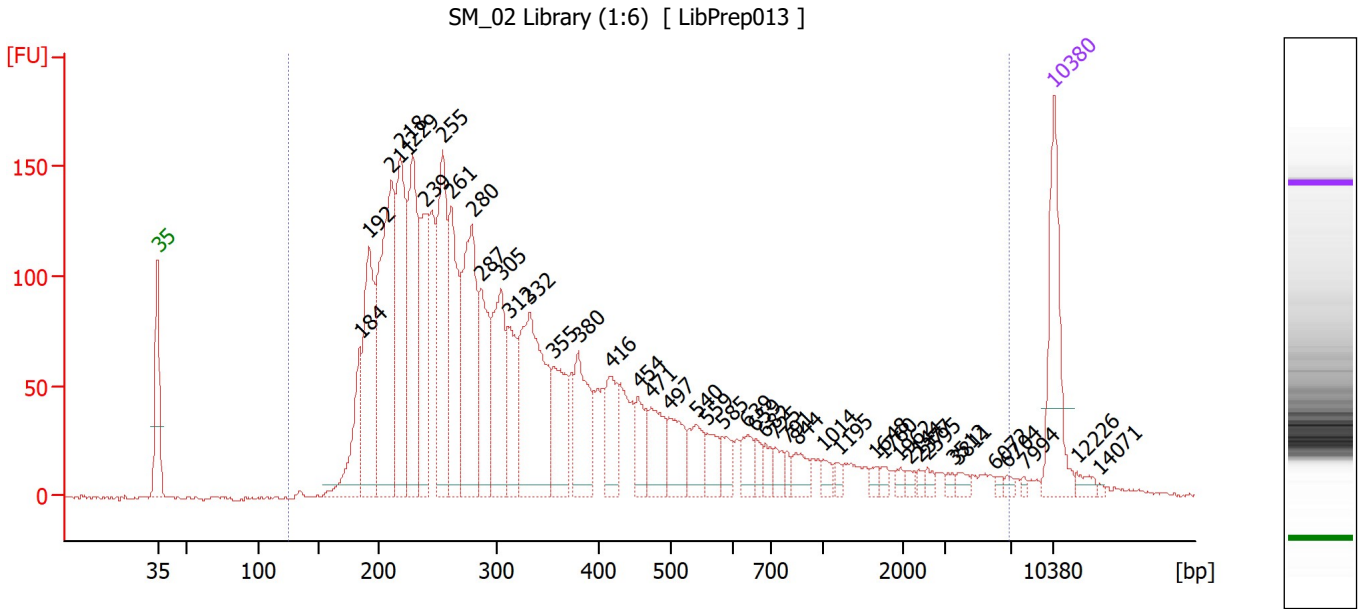
**Peak table for Ladder**

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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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SM\_02 Library (1:6)**

Number of peaks found: 43                      Corr. Area 1: 3,777.8  
 Noise: 0.9

**Peak table for sample 2 : SM\_02 Library (1:6)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	184	86.03	707.5	
3	192	159.85	1,263.3	
4	211	270.34	1,944.2	
5	218	186.01	1,290.8	
6	229	184.52	1,221.6	
7	239	126.54	800.9	
8	255	163.96	975.3	
9	261	134.55	779.8	
10	280	189.25	1,025.5	
11	287	99.58	525.2	
12	305	118.31	588.5	
13	312	72.54	352.6	
14	332	192.78	878.5	
15	355	74.51	317.6	
16	380	79.34	316.3	
17	416	50.78	185.0	
18	454	36.57	122.1	
19	471	47.99	154.4	
20	497	44.42	135.5	
21	540	33.51	94.0	
22	559	23.91	64.8	
23	585	18.41	47.7	
24	639	20.91	49.5	
25	659	10.91	25.1	
26	682	12.75	28.3	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : SM\_02 Library (1:6)**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	725	12.32	25.8	
28	791	7.53	14.4	
29	844	17.40	31.2	
30	1,014	8.80	13.1	
31	1,195	5.35	6.8	
32	1,648	5.77	5.3	
33	1,760	5.31	4.6	
34	1,962	4.74	3.7	
35	2,144	4.51	3.2	
36	2,377	3.27	2.1	
37	2,595	4.67	2.7	
38	3,512	3.42	1.5	
39	3,811	5.56	2.2	
40	6,072	2.73	0.7	
41	6,704	3.41	0.8	
42	7,994	2.22	0.4	
43	10,380	75.00	10.9	Upper Marker
44	12,226	0.00	0.0	
45	14,071	0.00	0.0	

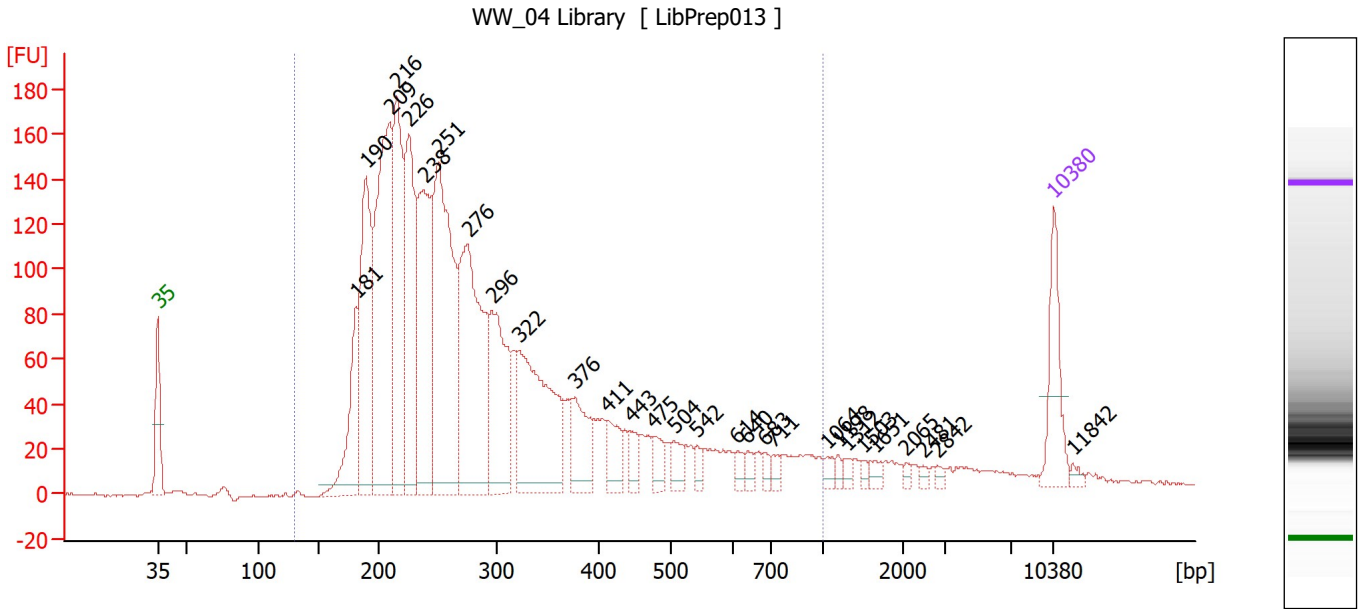
**Region table for sample 2 : SM\_02 Library (1:6)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
125	6,861	3,777.8	99	490	100.0	2,797.87	14,934.0	

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : WW\_04 Library**

Number of peaks found: 29                      Corr. Area 1: 3,333.3  
 Noise: 0.6

**Peak table for sample 3 : WW\_04 Library**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	181	155.62	1,302.7	
3	190	320.73	2,563.8	
4	209	501.05	3,628.6	
5	216	312.32	2,195.5	
6	226	302.18	2,028.2	
7	238	309.69	1,968.5	
8	251	497.74	3,004.7	
9	276	413.18	2,270.1	
10	296	219.57	1,123.3	
11	322	305.39	1,435.9	
12	376	89.40	360.2	
13	411	50.20	185.1	
14	443	26.19	89.5	
15	475	30.56	97.4	
16	504	30.72	92.3	
17	542	13.26	37.1	
18	614	13.97	34.5	
19	640	13.87	32.9	
20	683	10.26	22.8	
21	711	12.70	27.1	
22	1,064	11.36	16.2	
23	1,198	7.20	9.1	
24	1,312	7.74	8.9	
25	1,503	6.48	6.5	
26	1,651	10.09	9.3	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : WW\_04 Library**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,065	5.88	4.3	
28	2,481	5.05	3.1	
29	2,842	5.53	3.0	
30	10,380	75.00	10.9	Upper Marker
31	11,842	0.00	0.0	

**Region table for sample 3 : WW\_04 Library**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
130	1,000	3,333.3	94	308	45.3	3,861.06	22,663.4	



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**Gel Image**

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**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		8/21/2020 4:59:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-21\Bioanalyze r1_High Sensitivity DNA Assay_2020-08-21_001.xad)		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/21/2020 4:18:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB