

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_004.xad

Created: 3/19/2014 12:17:40 PM  
Modified: 3/19/2014 1:13:23 PM

**Electrophoresis File Run Summary**

Instrument Information:

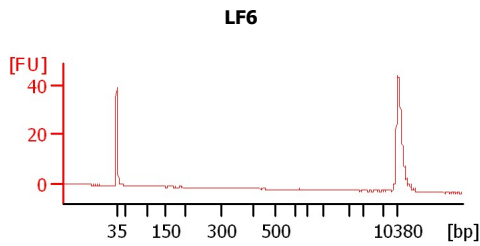
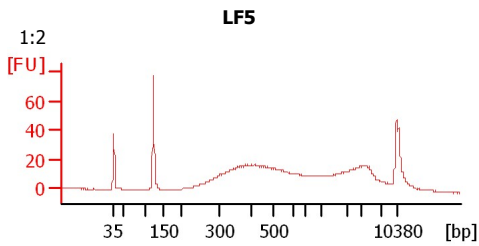
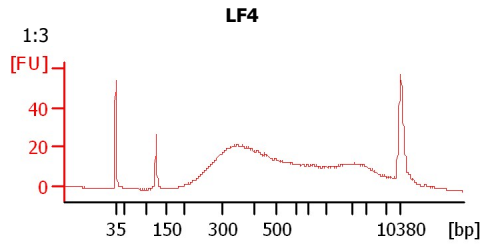
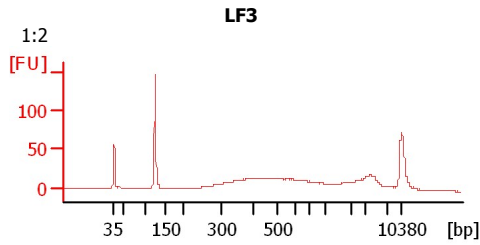
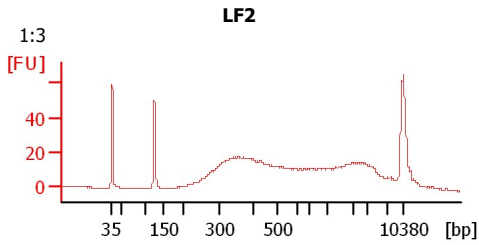
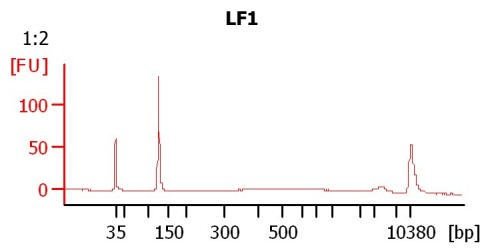
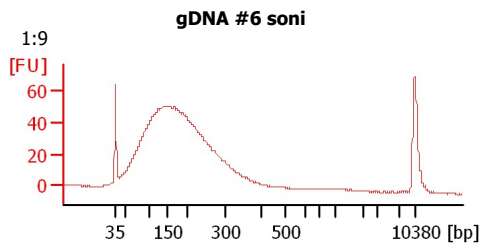
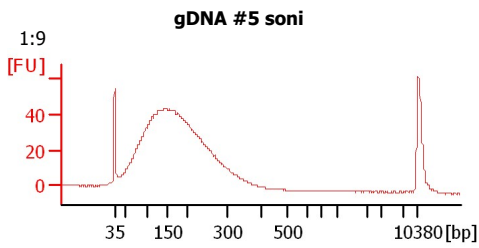
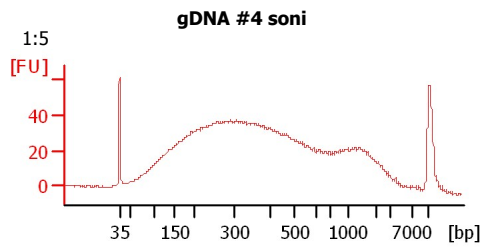
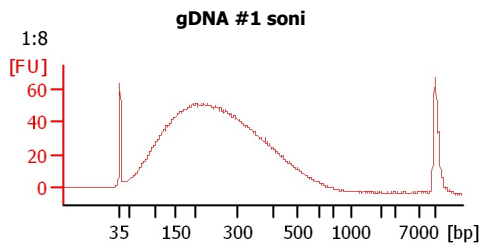
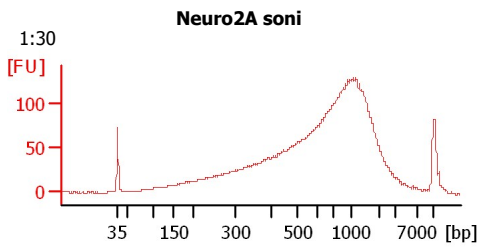
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19\_004.xad

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Neuro2A soni	1:30	<input type="checkbox"/>	✓			
gDNA #1 soni	1:8	<input type="checkbox"/>	✓			
gDNA #4 soni	1:5	<input type="checkbox"/>	✓			
gDNA #5 soni	1:9	<input type="checkbox"/>	✓			
gDNA #6 soni	1:9	<input type="checkbox"/>	✓			
LF1	1:2	<input type="checkbox"/>	✓			
LF2	1:3	<input type="checkbox"/>	✓			
LF3	1:2	<input type="checkbox"/>	✓			
LF4	1:3	<input type="checkbox"/>	✓			
LF5	1:2	<input type="checkbox"/>	✓			
LF6		<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

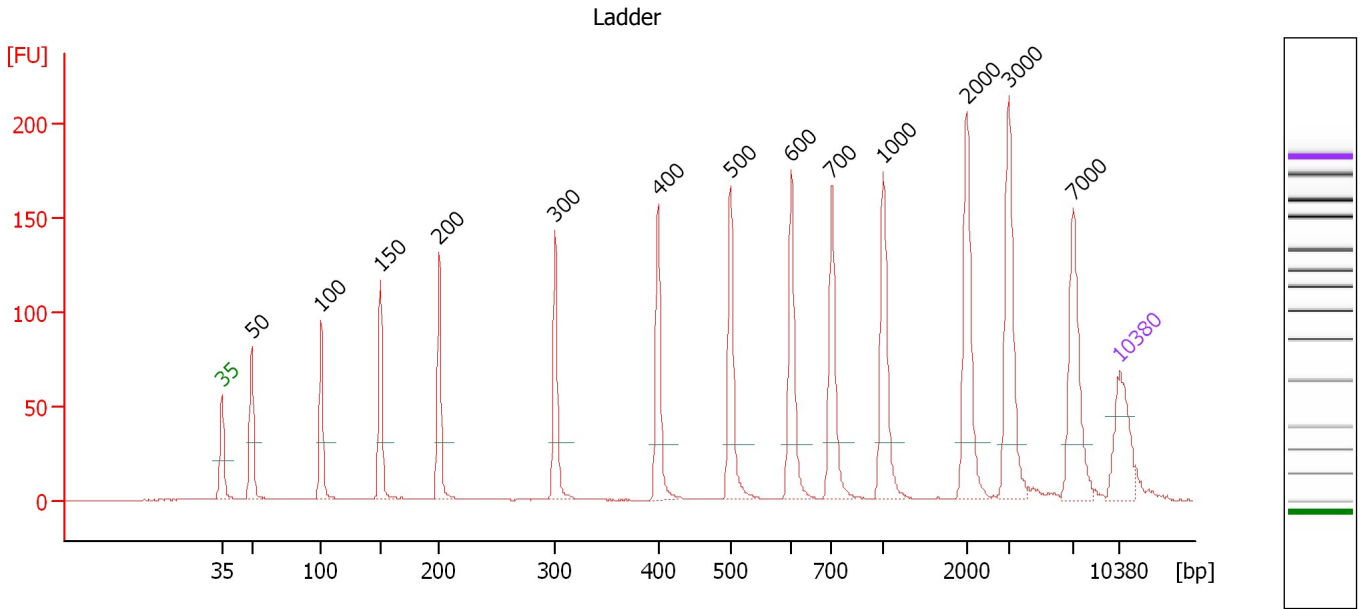
**Ladder**

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: 0.1

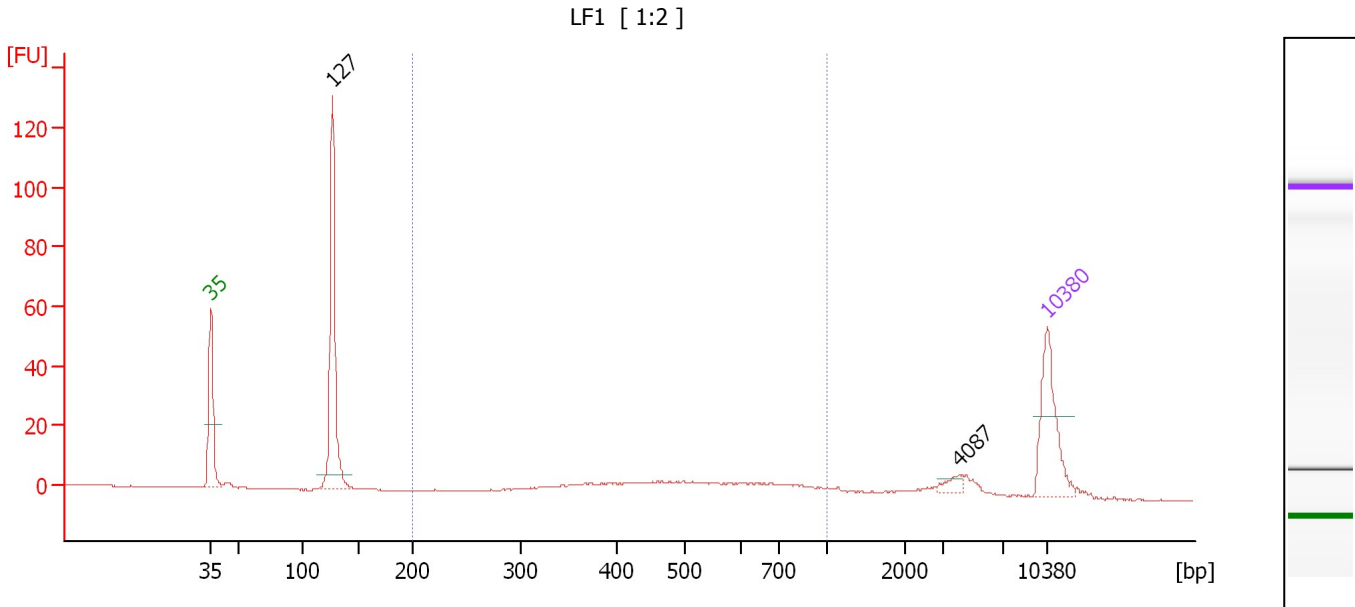
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.73	100	150.00	2,272.7	Ladder Peak
4	55.35	150	150.00	1,515.2	Ladder Peak
5	59.92	200	150.00	1,136.4	Ladder Peak
6	68.94	300	150.00	757.6	Ladder Peak
7	76.96	400	150.00	568.2	Ladder Peak
8	82.61	500	150.00	454.5	Ladder Peak
9	87.35	600	150.00	378.8	Ladder Peak
10	90.51	700	150.00	324.7	Ladder Peak
11	94.54	1,000	150.00	227.3	Ladder Peak
12	101.03	2,000	150.00	113.6	Ladder Peak
13	104.31	3,000	150.00	75.8	Ladder Peak
14	109.34	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : LF1**

Number of peaks found: 2                      Corr. Area 1: 99.2  
 Noise: 0.2

**Peak table for sample 6 : LF1**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.18	127	255.10	3,055.1	
3	105.68	4,087	9.89	3.7	
4	113.00	10,380	75.00	10.9	Upper Marker

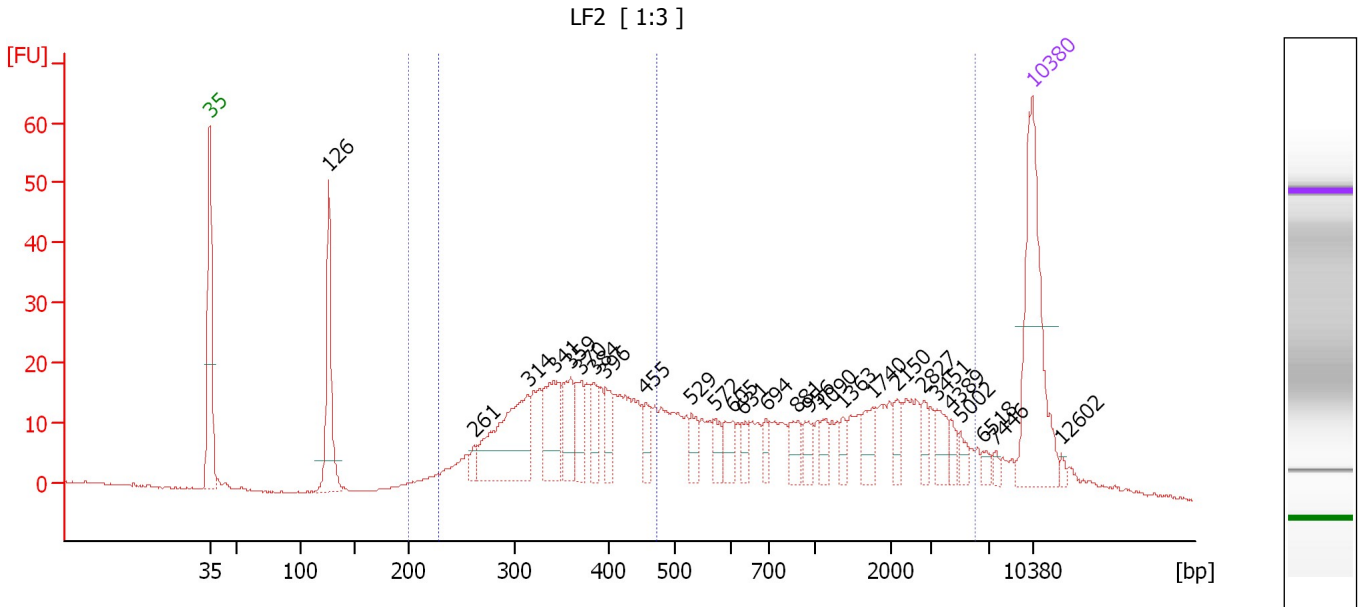
**Region table for sample 6 : LF1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	539	449.8	141.60	99.2	36	30.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : LF2**

Number of peaks found: 27                      Corr. Area 1: 723.6  
 Noise: 0.2    Corr. Area 2: 344.4

**Peak table for sample 7 : LF2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.12	126	80.82	973.1	
3	65.46	261	7.13	41.3	
4	70.04	314	87.44	422.3	
5	72.26	341	45.27	200.9	
6	73.67	359	27.01	114.0	
7	74.53	370	23.54	96.5	
8	75.66	384	16.48	65.1	
9	76.66	396	18.22	69.7	
10	80.06	455	13.77	45.9	
11	83.97	529	12.84	36.8	
12	86.01	572	10.68	28.3	
13	87.50	605	13.57	34.0	
14	88.32	631	7.87	18.9	
15	90.32	694	7.52	16.4	
16	92.95	881	12.93	22.2	
17	93.95	956	8.93	14.2	
18	95.13	1,090	8.35	11.6	
19	96.90	1,363	6.20	6.9	
20	99.34	1,740	13.19	11.5	
21	101.52	2,150	8.67	6.1	
22	103.75	2,827	7.28	3.9	
23	104.88	3,451	12.28	5.4	
24	106.06	4,389	5.25	1.8	
25	106.83	5,002	5.97	1.8	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : LF2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	108.74	6,518	3.72	0.9	
27	109.82	7,446	2.90	0.6	
28	113.00	10,380	75.00	10.9	Upper Marker
29	115.40	12,602	0.00	0.0	

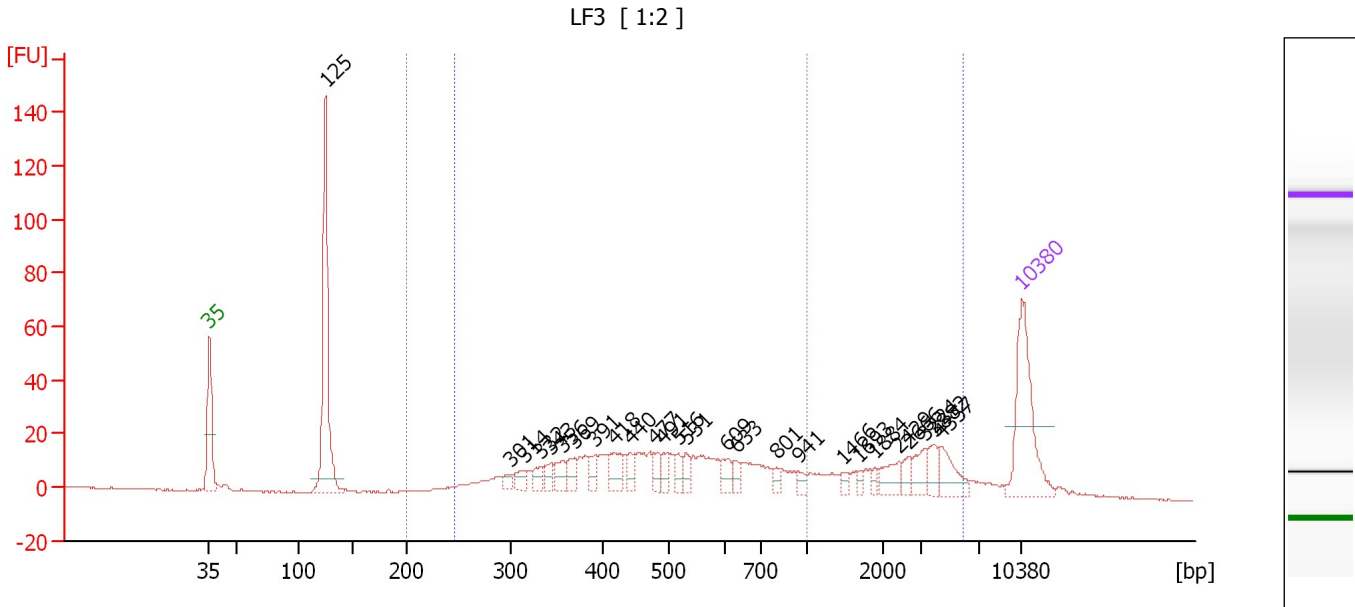
#### Region table for sample 7 : LF2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	5,999	1,082	2,583.7	805.04	723.6	89	100.0
229	473	357	1,887.3	427.22	344.4	42	16.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : LF3**

Number of peaks found: 26                      Corr. Area 1: 437.6  
 Noise: 0.2    Corr. Area 2: 594.0

**Peak table for sample 8 : LF3**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.01	125	208.88	2,537.4	
3	69.00	301	7.27	36.6	
4	70.10	314	11.37	54.8	
5	71.48	332	10.97	50.1	
6	72.40	343	11.54	51.0	
7	73.41	356	16.89	72.0	
8	74.46	369	15.67	64.3	
9	76.21	391	13.25	51.4	
10	77.95	418	24.17	87.7	
11	79.24	440	11.94	41.1	
12	81.31	477	11.84	37.6	
13	82.09	491	12.55	38.7	
14	83.37	516	10.98	32.2	
15	84.06	531	11.41	32.6	
16	87.65	609	12.33	30.7	
17	88.38	633	7.70	18.4	
18	91.87	801	5.85	11.1	
19	93.75	941	5.84	9.4	
20	97.57	1,466	5.57	5.8	
21	99.04	1,693	4.32	3.9	
22	100.28	1,884	4.89	3.9	
23	102.44	2,429	16.24	10.1	
24	103.22	2,666	8.42	4.8	
25	104.59	3,224	15.17	7.1	



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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : LF3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	105.42	3,882	13.23	5.2	
27	106.02	4,357	23.29	8.1	
28	113.00	10,380	75.00	10.9	Upper Marker

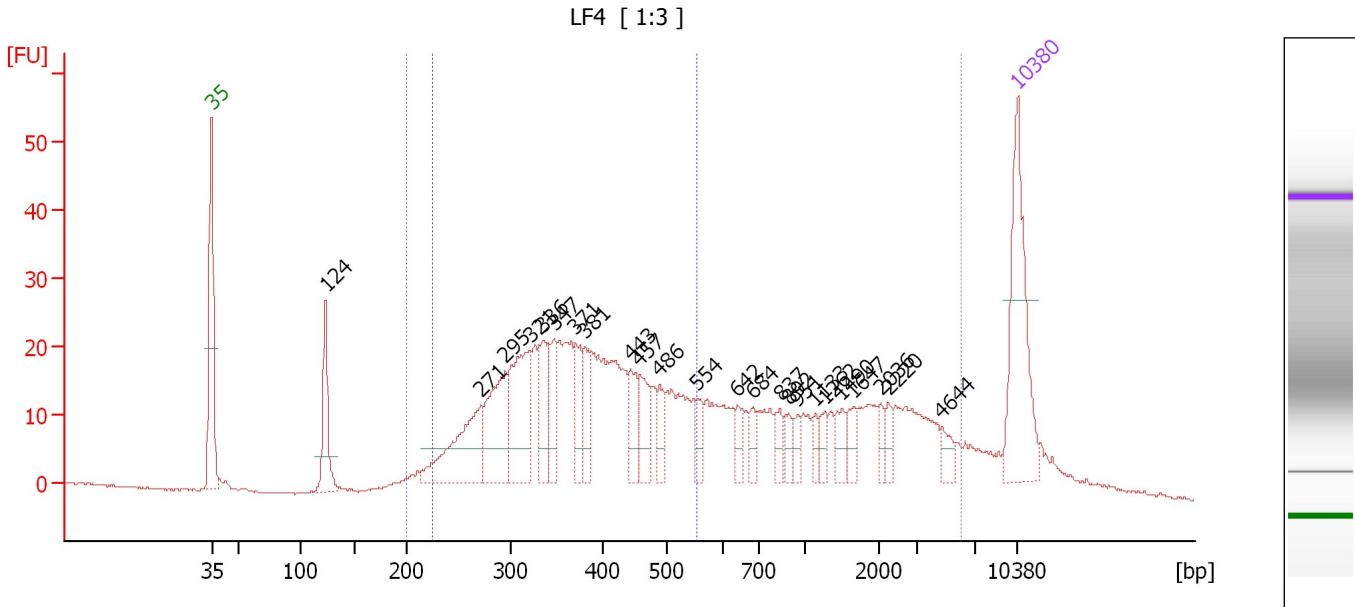
#### Region table for sample 8 : LF3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	499	1,594.0	453.95	437.6	56	33.1
246	5,857	1,233	1,638.8	574.54	594.0	77	100.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : LF4**

Number of peaks found: 24                      Corr. Area 1: 793.4  
 Noise: 0.2    Corr. Area 2: 498.6

**Peak table for sample 9 : LF4**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	52.91	124	55.18	676.5	
3	66.33	271	84.70	473.3	
4	68.51	295	73.15	375.4	
5	70.64	321	85.10	401.5	
6	71.80	336	42.15	190.3	
7	72.72	347	30.98	135.2	
8	74.62	371	26.34	107.6	
9	75.41	381	28.93	115.2	
10	79.39	443	26.19	89.6	
11	80.18	457	29.26	97.0	
12	81.84	486	18.28	56.9	
13	85.18	554	13.76	37.6	
14	88.69	642	10.84	25.6	
15	89.99	684	9.89	21.9	
16	92.35	837	12.07	21.9	
17	93.09	892	9.37	15.9	
18	93.88	951	7.75	12.4	
19	95.41	1,133	7.39	9.9	
20	96.24	1,262	9.10	10.9	
21	97.72	1,490	12.39	12.6	
22	98.74	1,647	10.22	9.4	
23	101.15	2,036	7.22	5.4	
24	101.75	2,220	7.78	5.3	
25	106.38	4,644	8.59	2.8	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : LF4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	113.00	10,380	75.00	10.9	Upper Marker

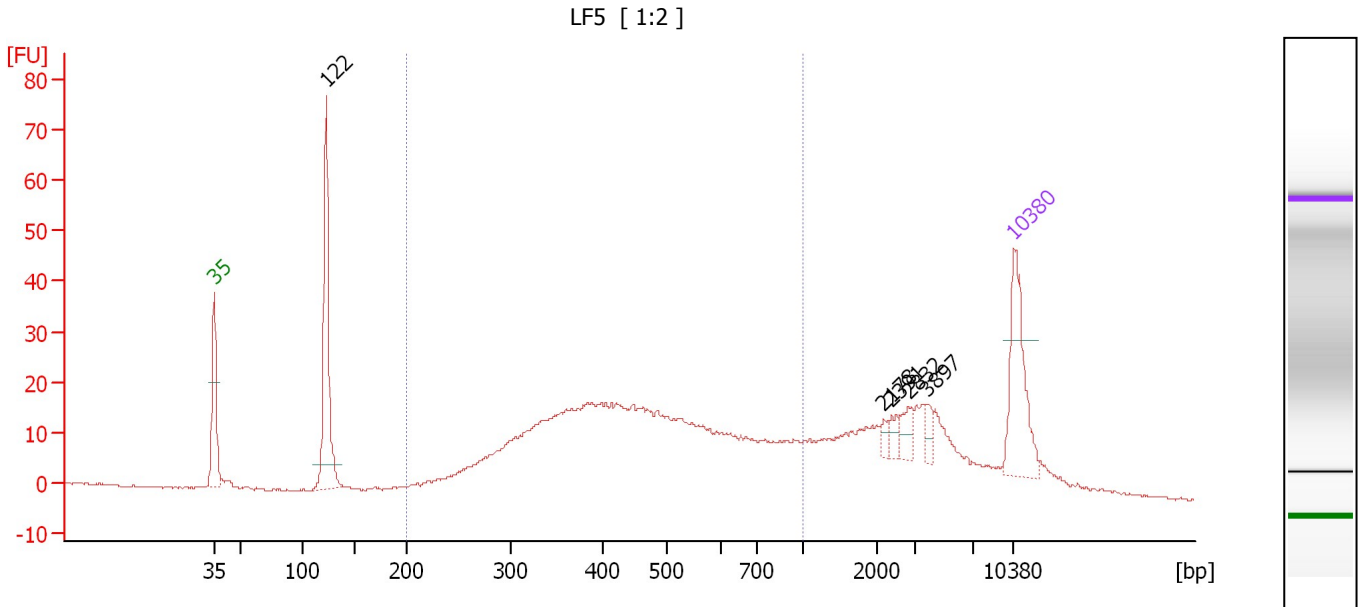
#### Region table for sample 9 : LF4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	5,977	938	3,967.6	1,142.11	793.4	92	100.0
226	554	378	3,332.2	776.53	498.6	58	21.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : LF5**

Number of peaks found: 5                      Corr. Area 1: 488.6  
 Noise: 0.2

**Peak table for sample 10 : LF5**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	52.80	122	194.87	2,412.0	
3	101.61	2,178	6.10	4.2	
4	102.31	2,391	9.55	6.1	
5	103.76	2,832	14.81	7.9	
6	105.44	3,897	10.33	4.0	
7	113.00	10,380	75.00	10.9	Upper Marker

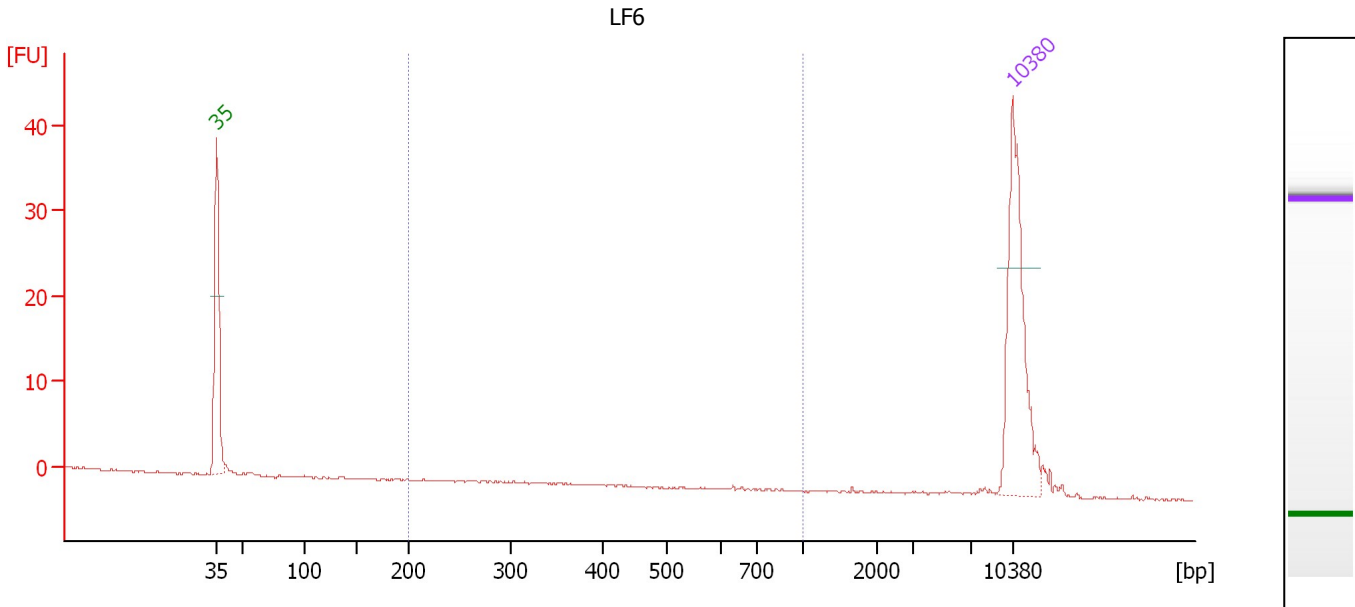
**Region table for sample 10 : LF5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	482	3,348.8	912.79	488.6	62	35.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : LF6**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 11 : LF6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : LF6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	640	0.1	0.05	0.0	0	1.8

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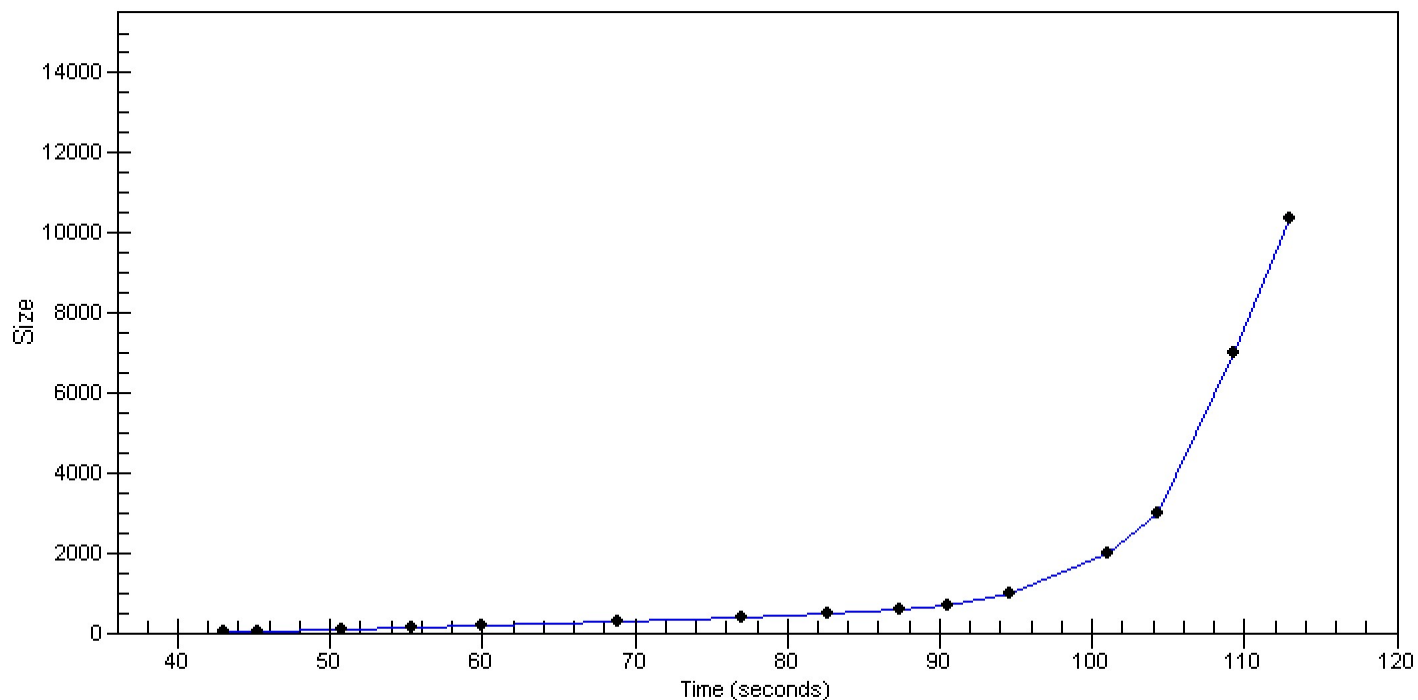
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
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**Curves**

**Standard Curve**



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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		3/19/2014 12:58:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-19\2014-03-19_004.xad)		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1