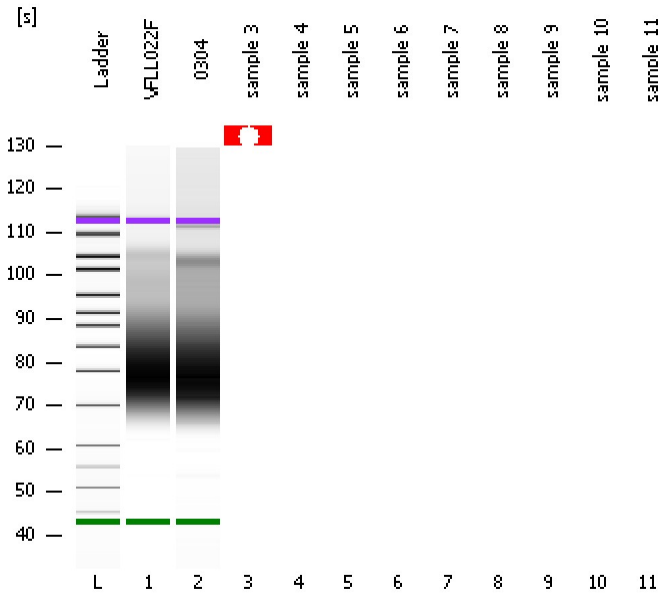


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
Modified: 9/10/2013 10:43:43 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

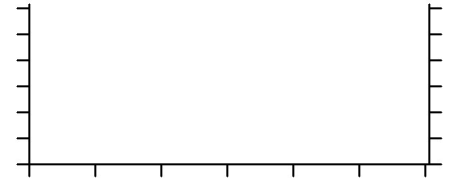
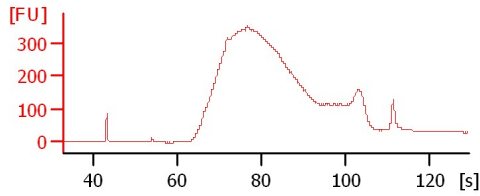
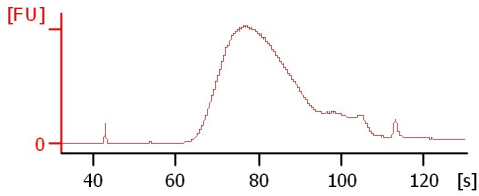
Chip Information:

Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:

VFL022F

0304

sample 3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
 Modified: 9/10/2013 10:43:43 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
VFL022F		<input type="checkbox"/>	✓			
0304		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✗			
sample 4		<input type="checkbox"/>	✗			
sample 5		<input type="checkbox"/>	✗			
sample 6		<input type="checkbox"/>	✗			
sample 7		<input type="checkbox"/>	✗			
sample 8		<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 :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
Modified: 9/10/2013 10:43:43 AM

**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

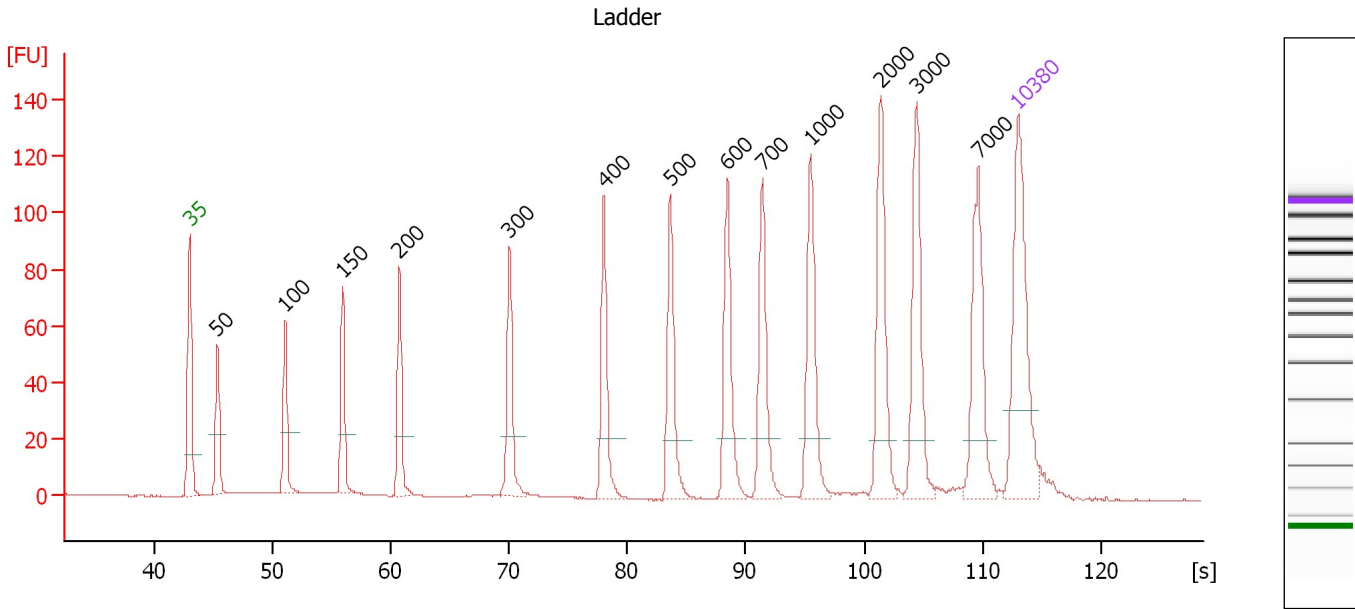
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

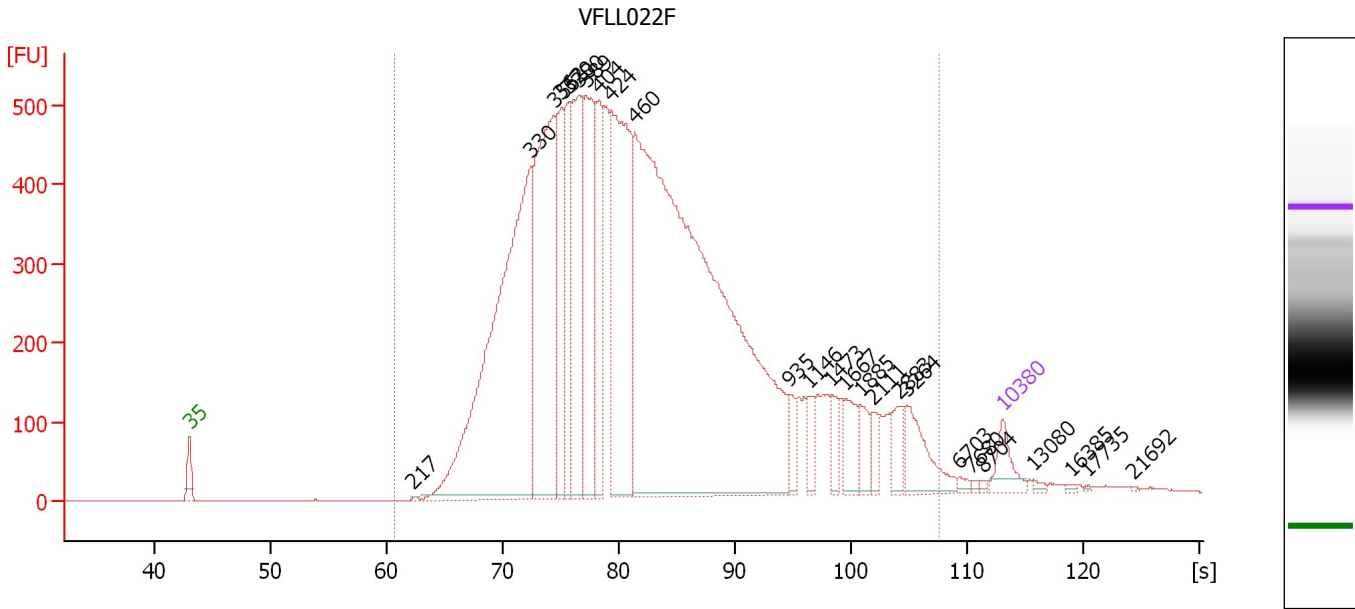
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
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:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : VFLLO22F**

Number of peaks found: 25                      Corr. Area 1: 13,895.6  
 Noise: 0.2

**Peak table for sample 1 : VFLLO22F**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	217	5.00	35.0	
3	330	2,128.11	9,781.3	
4	355	1,156.45	4,934.0	
5	362	424.89	1,778.0	
6	370	367.87	1,508.1	
7	380	645.27	2,572.6	
8	389	632.09	2,463.8	
9	404	343.61	1,289.5	
10	424	1,063.73	3,804.6	
11	460	4,185.83	13,784.9	
12	935	70.50	114.3	
13	1,146	69.65	92.1	
14	1,473	61.62	63.4	
15	1,667	103.91	94.4	
16	1,885	73.21	58.9	
17	2,111	49.03	35.2	
18	2,883	79.21	41.6	
19	3,264	155.10	72.0	
20	6,703	13.17	3.0	
21	7,680	7.57	1.5	
22	8,704	5.56	1.0	
23	10,380	75.00	10.9	Upper Marker
24	13,080	0.00	0.0	
25	16,385	0.00	0.0	
26	17,735	0.00	0.0	


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
Modified: 9/10/2013 10:43:43 AM

**Electropherogram Summary Continued ...****... Peak table for sample 1 : VFLL022F**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
27	21,692	0.00	0.0	

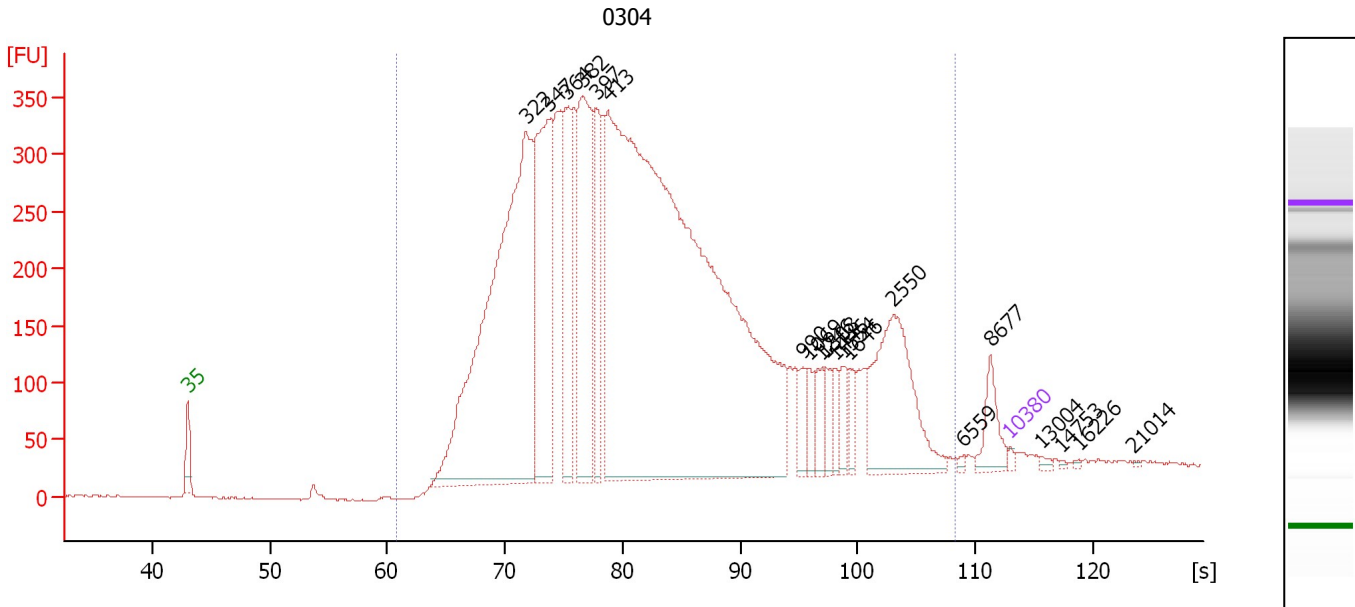
**Region table for sample 1 : VFLL022F**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5,399	655	41,956.6	11,948.05	13,895.6	99	100.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-10\2013-09-10\_002.xad

Created: 9/10/2013 10:26:06 AM  
 Modified: 9/10/2013 10:43:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 0304**

Number of peaks found: 20                      Corr. Area 1: 9,839.2  
 Noise: 0.7

**Peak table for sample 2 : 0304**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	322	21,570.43	101,459.2	
3	347	7,823.66	34,186.4	
4	364	3,838.35	15,955.3	
5	382	6,814.64	27,011.6	
6	397	2,703.13	10,312.9	
7	413	44,458.74	163,058.5	
8	990	695.53	1,064.6	
9	1,069	591.86	838.7	
10	1,246	648.15	788.1	
11	1,308	531.47	615.8	
12	1,446	478.40	501.2	
13	1,554	544.96	531.4	
14	1,646	492.23	453.0	
15	2,550	4,126.63	2,452.0	
16	6,559	70.58	16.3	
17	8,677	884.08	154.4	
18	10,380	75.00	10.9	Upper Marker
19	13,004	0.00	0.0	
20	14,753	0.00	0.0	
21	16,226	0.00	0.0	
22	21,014	0.00	0.0	

**Region table for sample 2 : 0304**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5,948	678	361,924.8	101,621.45	9,839.2	98	99.9	Blue