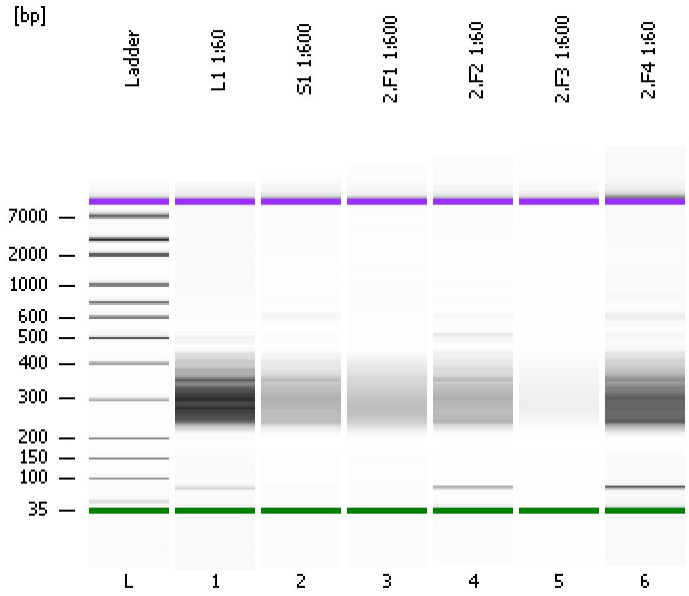
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electrophoresis File Run Summary



Instrument Information:

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

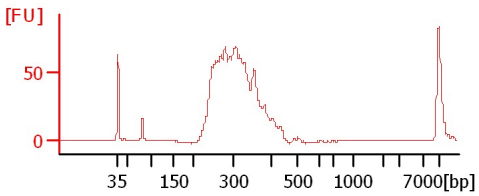
Assay Information:

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

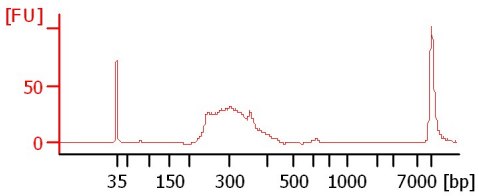
Chip Information:

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

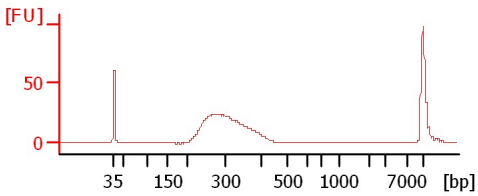
L1 1:60



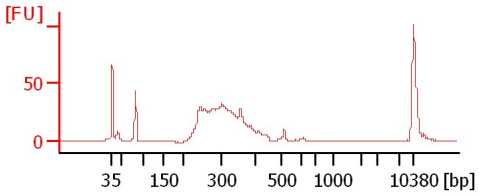
S1 1:600



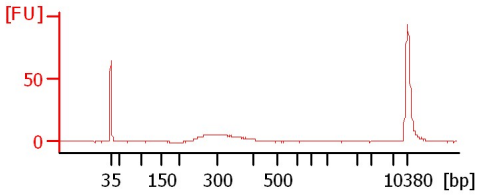
2.F1 1:600



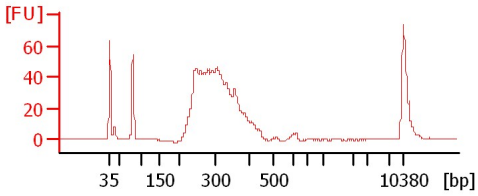
2.F2 1:60



2.F3 1:600



2.F4 1:60



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
L1 1:60		☐	✔			
S1 1:600		☐	✔			
2.F1 1:600		☐	✔			
2.F2 1:60		☐	✔			
2.F3 1:600		☐	✔			
2.F4 1:60		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

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

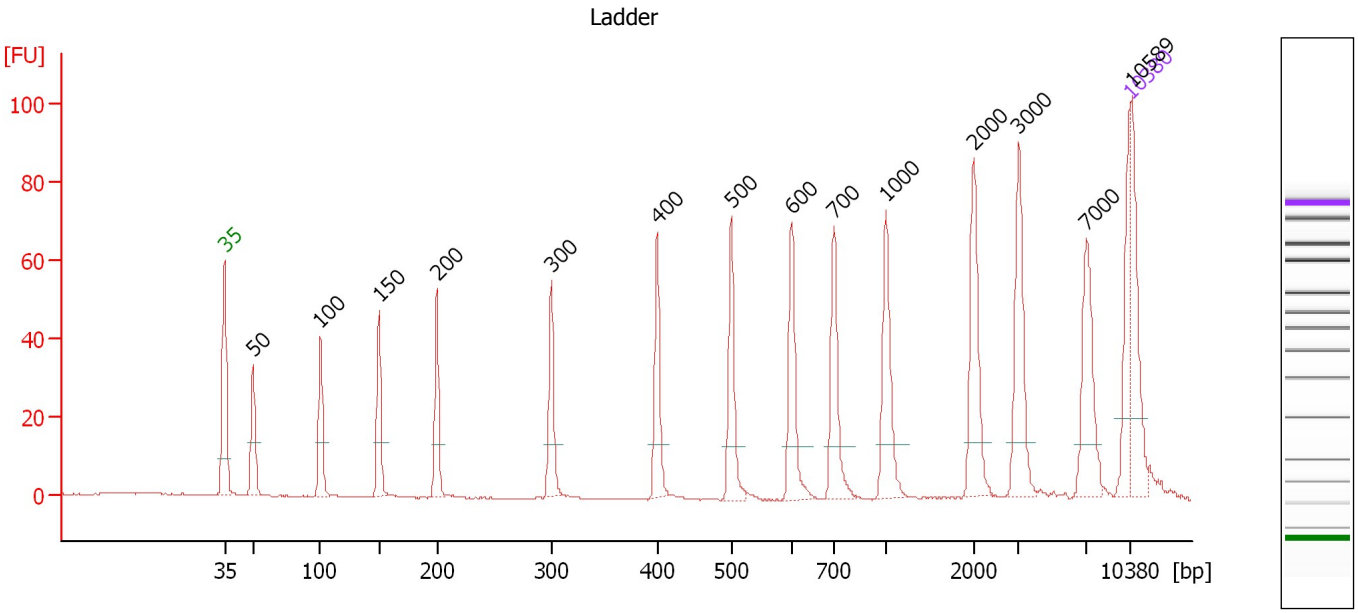
Ladder

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:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

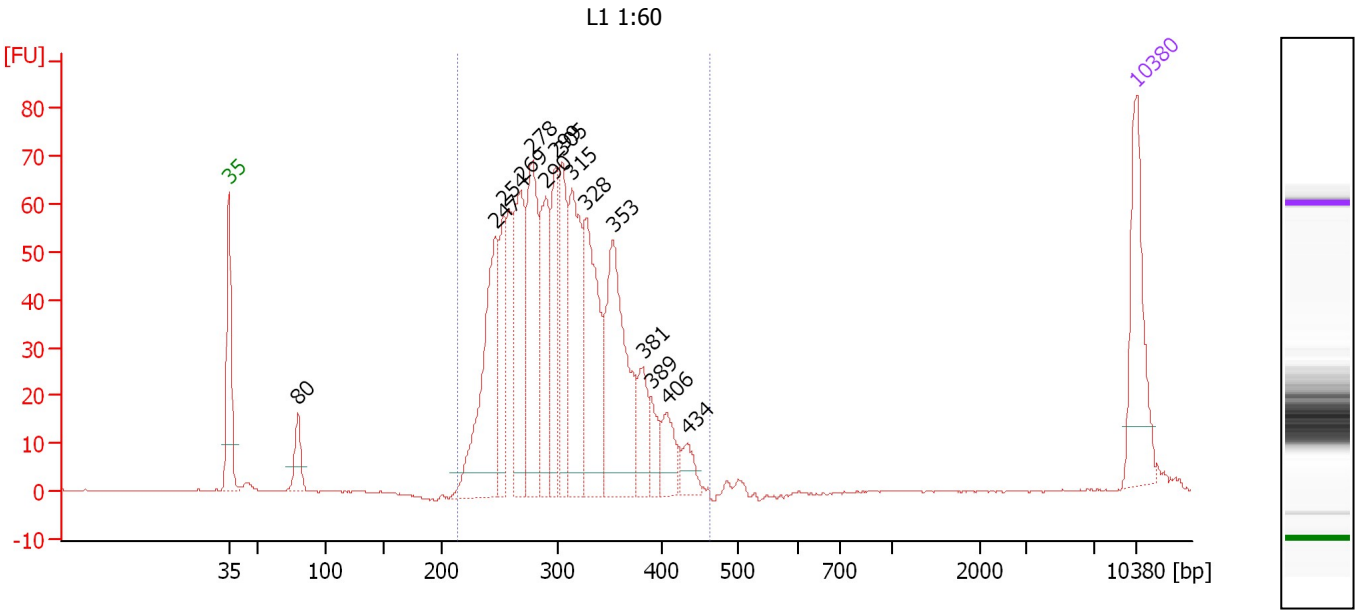
Peak table for Ladder

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
16		10,589	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : L1 1:60

Number of peaks found:	15	Corr. Area 1:	1,090.4
Noise:	0.1		

Peak table for sample 1 : L1 1:60

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	35.28	668.4	
3	247	197.63	1,214.2	
4	254	74.47	444.2	
5	269	143.97	811.3	
6	278	159.81	870.5	
7	290	106.78	557.5	
8	299	94.58	479.3	
9	305	106.29	528.1	
10	315	141.11	679.8	
11	328	156.04	720.6	
12	353	182.10	781.0	
13	381	42.24	167.8	
14	389	23.35	90.8	
15	406	33.97	126.8	
16	434	21.27	74.3	
17	10,380	75.00	10.9	Upper Marker

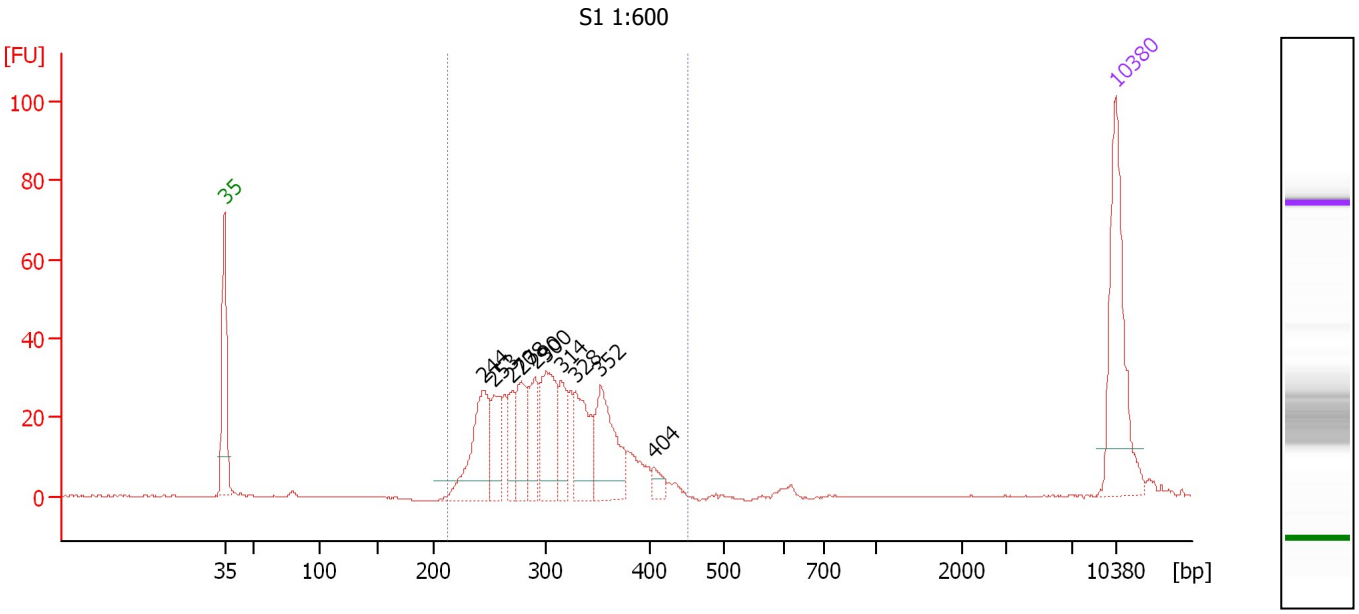
Region table for sample 1 : L1 1:60

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
214	464	307	7,756.9	1,525.86	1,090.4	97	15.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : S1 1:600

Number of peaks found:	10	Corr. Area 1:	516.4
Noise:	0.2		

Peak table for sample 2 : S1 1:600

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	86.43	536.7	
3	253	39.62	236.9	
4	270	29.46	165.3	
5	278	51.35	280.3	
6	290	38.91	203.4	
7	300	73.12	369.6	
8	314	33.86	163.3	
9	328	54.54	252.0	
10	352	73.05	314.5	
11	404	10.10	37.9	
12	10,380	75.00	10.9	Upper Marker

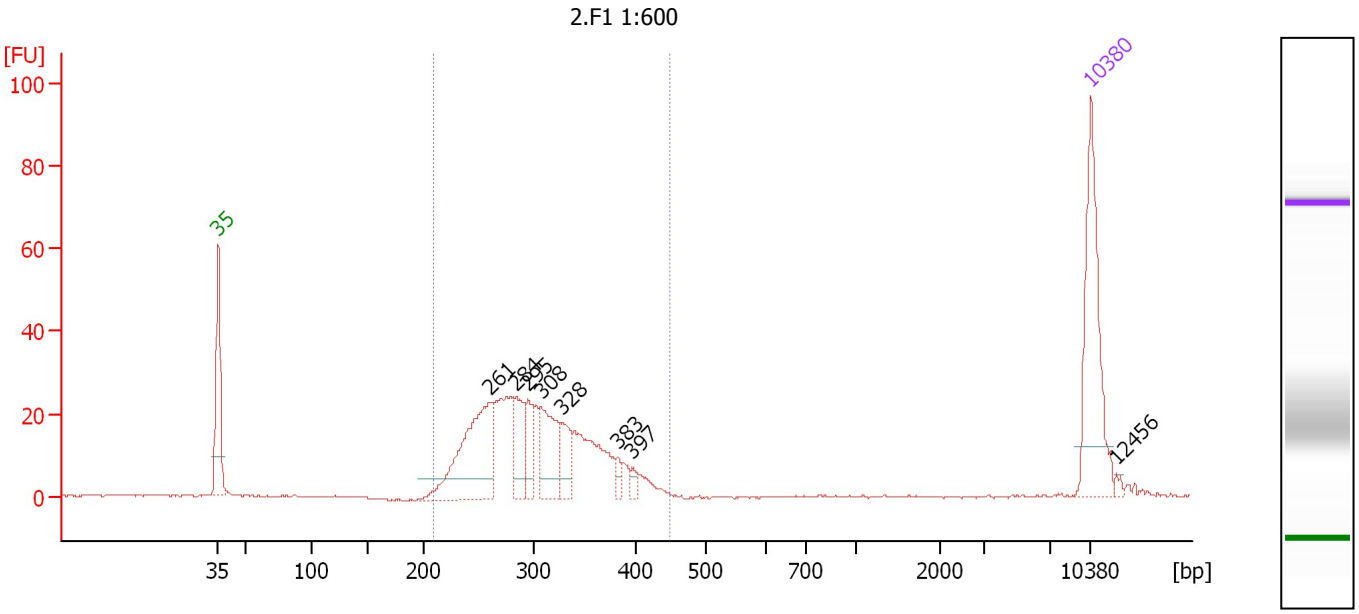
Region table for sample 2 : S1 1:600

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	453	307	2,716.8	533.92	516.4	98	15.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2.F1 1:600

Number of peaks found:	8	Corr. Area 1:	390.1
Noise:	0.2		

Peak table for sample 3 : 2.F1 1:600

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	126.31	733.9	
3	284	37.32	199.1	
4	295	22.91	117.6	
5	308	56.17	276.6	
6	328	28.17	130.1	
7	383	7.45	29.5	
8	397	5.91	22.6	
9	10,380	75.00	10.9	Upper Marker
10	12,456	0.00	0.0	

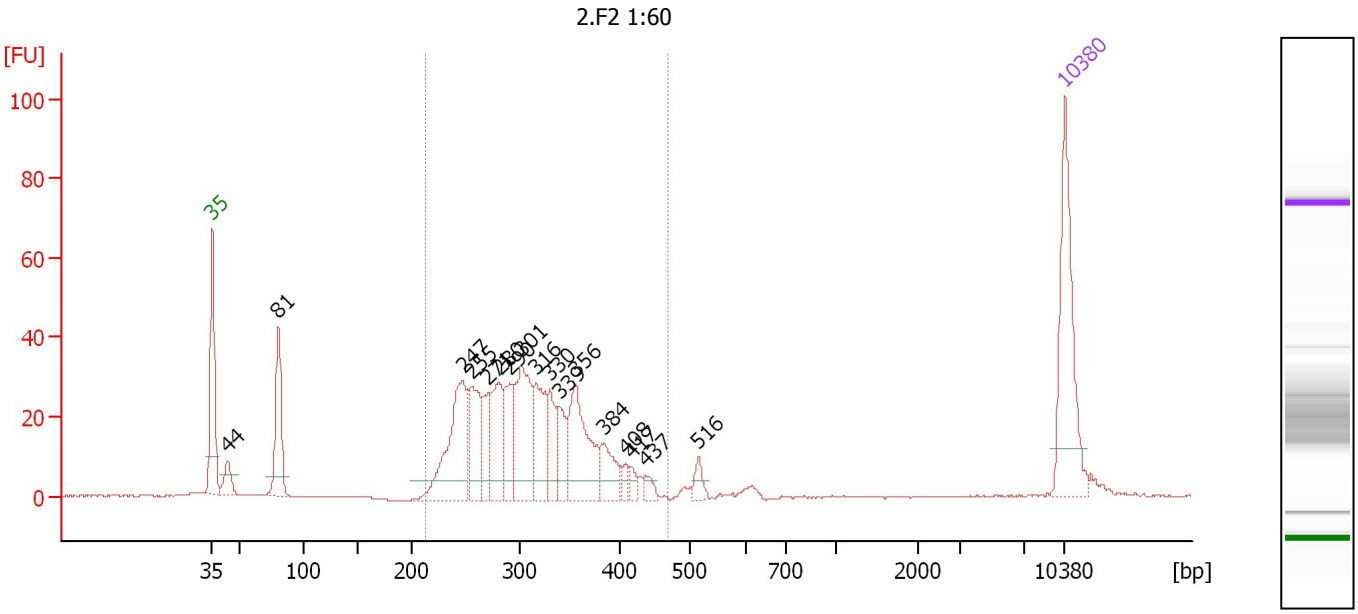
Region table for sample 3 : 2.F1 1:600

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
209	447	303	2,289.8	444.19	390.1	98	15.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2.F2 1:60

Number of peaks found:	17	Corr. Area 1:	531.6
Noise:	0.2		

Peak table for sample 4 : 2.F2 1:60

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	20.93	728.3	
3	81	75.32	1,412.5	
4	247	112.92	693.0	
5	255	59.27	351.8	
6	271	30.71	172.0	
7	280	57.21	309.1	
8	290	41.04	214.5	
9	301	88.06	442.9	
10	316	51.60	247.2	
11	330	31.03	142.6	
12	339	28.27	126.4	
13	356	78.93	336.0	
14	384	28.73	113.2	
15	408	6.87	25.5	
16	417	7.10	25.8	
17	437	7.66	26.6	
18	516	10.14	29.8	
19	10,380	75.00	10.9	Upper Marker

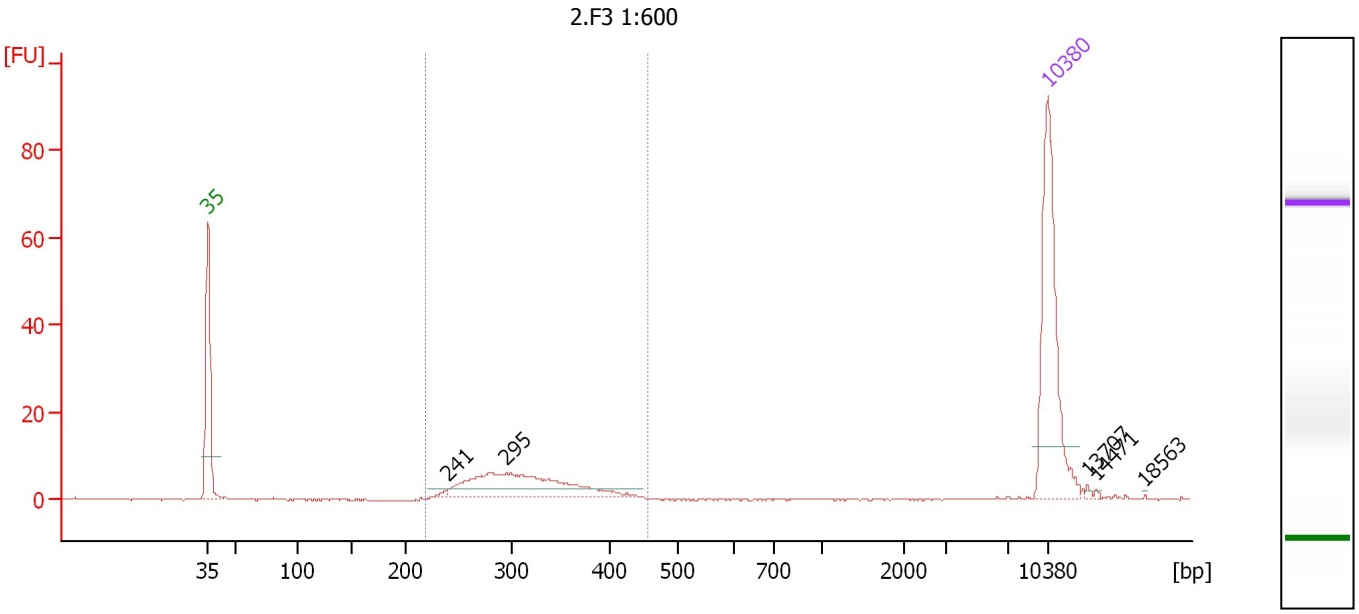
Region table for sample 4 : 2.F2 1:60

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
212	467	309	3,091.6	608.80	531.6	85	16.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : 2.F3 1:600

Height Threshold [FU] : 2

Overall Results for sample 5 : 2.F3 1:600

Number of peaks found:	5	Corr. Area 1:	90.2
Noise:	0.1		

Peak table for sample 5 : 2.F3 1:600

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	2.31	14.5	
3	295	91.00	467.4	
4	10,380	75.00	10.9	Upper Marker
5	13,707	0.00	0.0	
6	14,471	0.00	0.0	
7	18,563	0.00	0.0	

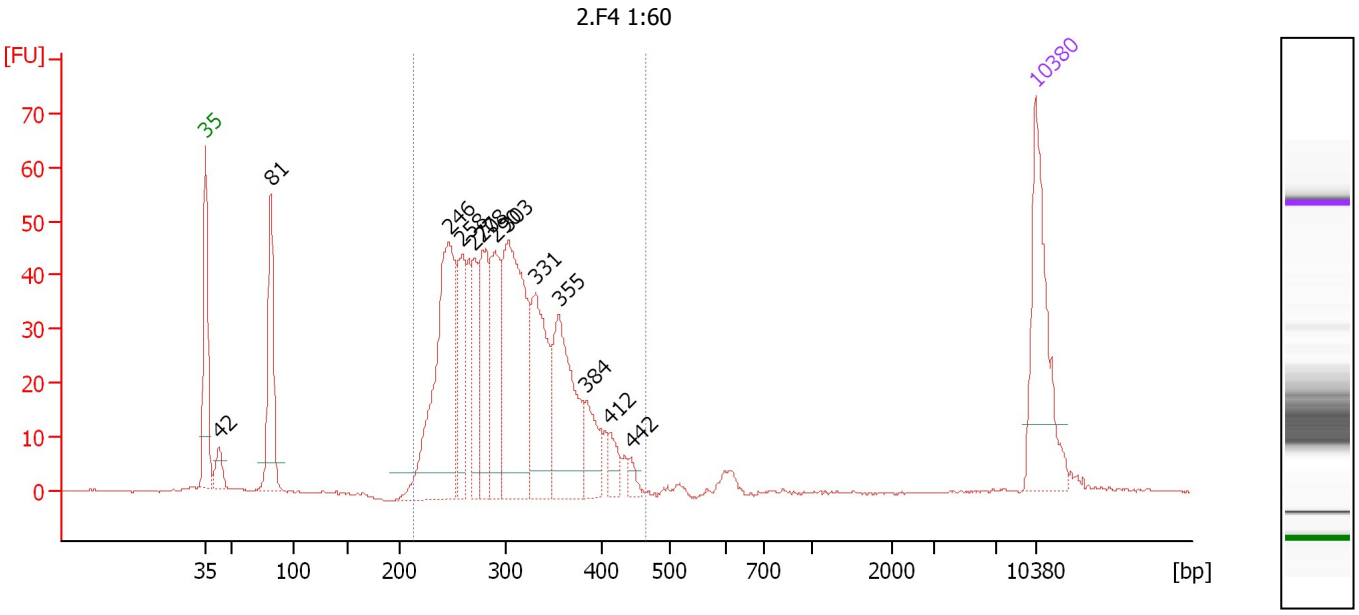
Region table for sample 5 : 2.F3 1:600

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	456	315	476.8	96.14	90.2	94	15.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2.F4 1:60

Number of peaks found:	13	Corr. Area 1:	787.7
Noise:	0.2		

Peak table for sample 6 : 2.F4 1:60

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	20.19	723.7	
3	81	105.92	1,972.3	
4	246	208.40	1,282.6	
5	258	62.43	366.1	
6	270	52.03	292.5	
7	278	80.27	437.3	
8	290	85.25	444.9	
9	303	190.51	953.5	
10	331	99.89	457.5	
11	355	110.68	472.3	
12	384	35.13	138.7	
13	412	15.31	56.3	
14	442	8.03	27.5	
15	10,380	75.00	10.9	Upper Marker

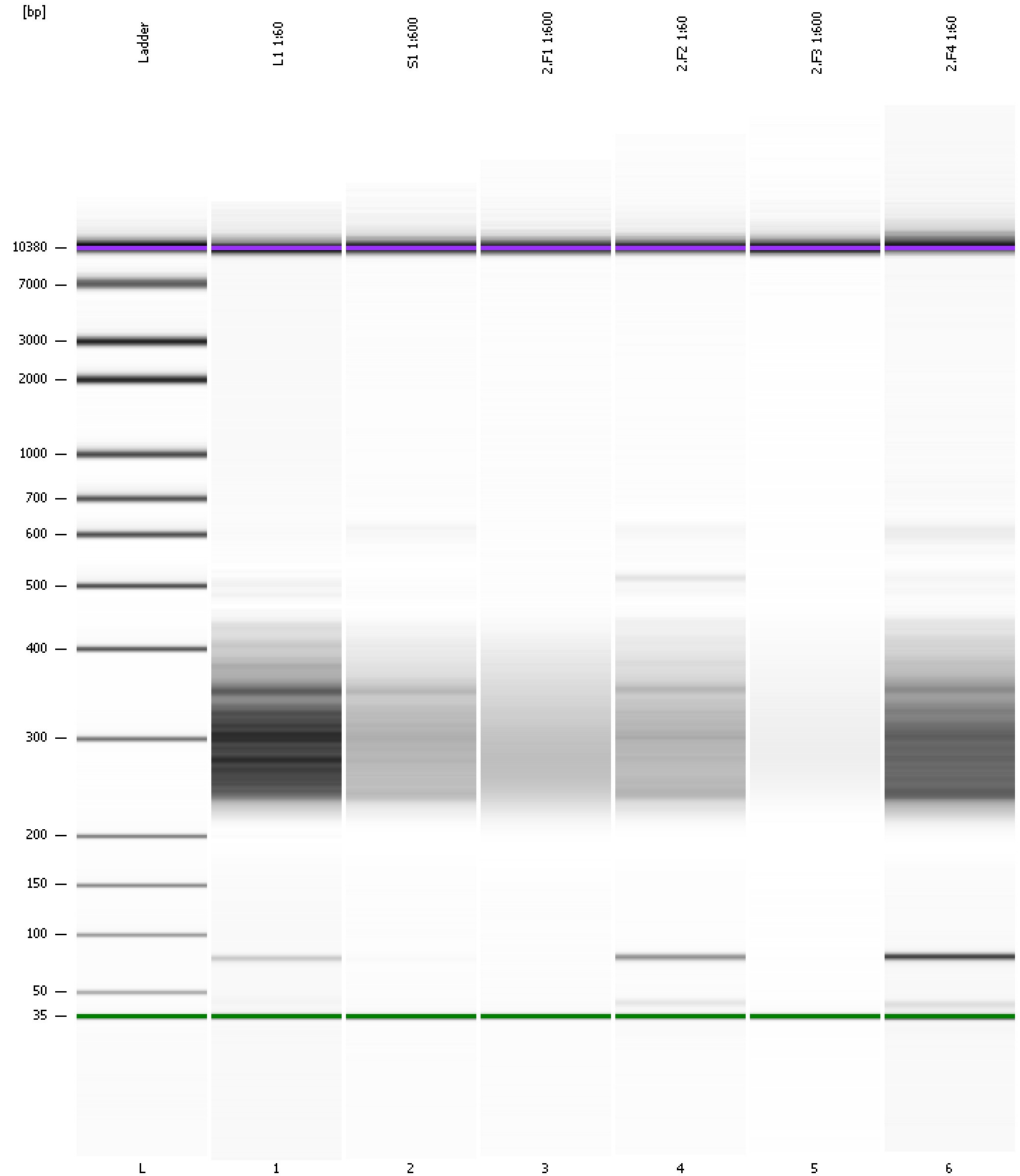
Region table for sample 6 : 2.F4 1:60

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	464	304	5,024.4	975.79	787.7	89	16.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-02-26\2013-02-26_003_smaldone.xad

Created: 2/26/2013 2:55:06 PM
Modified: 2/26/2013 3:45:21 PM

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		2/26/2013 3:36:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-26\2013-02-26_003.xad)		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/26/2013 2:55:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1