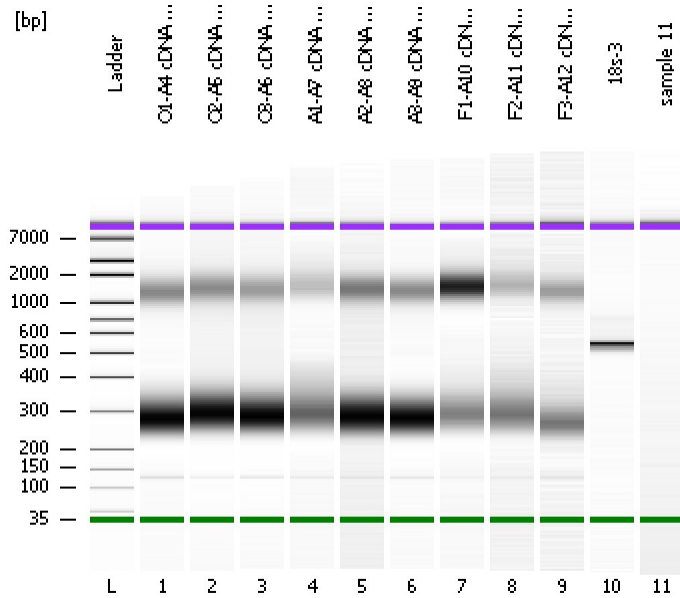


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
Modified: 3/8/2013 4:10:28 PM

Electrophoresis File Run Summary



Instrument Information:

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

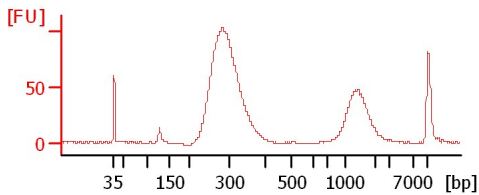
Assay Information:

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

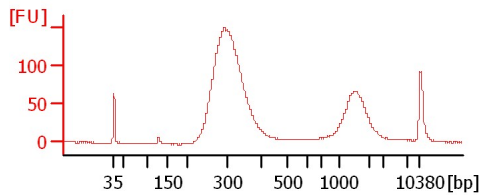
Chip Information:

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

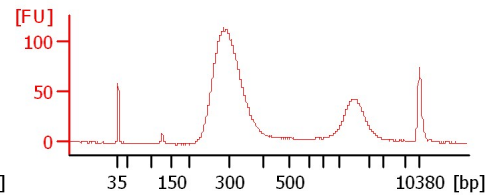
O1-A4 cDNA Lib Cleaned 1:3



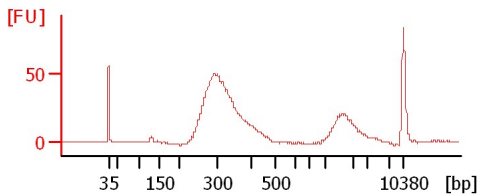
O2-A5 cDNA Lib Cleaned 1:3



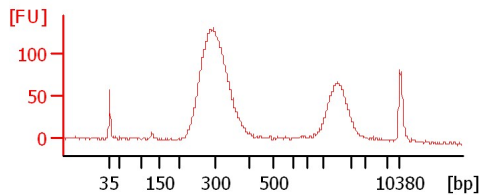
O3-A6 cDNA Lib Cleaned 1:3



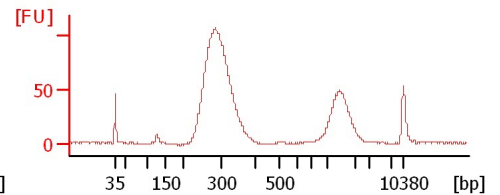
A1-A7 cDNA Lib Cleaned 1:5



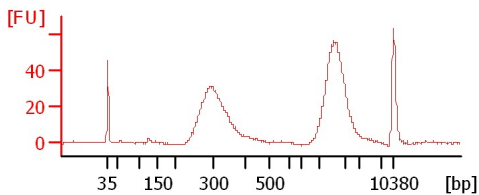
A2-A8 cDNA Lib Cleaned 1:2



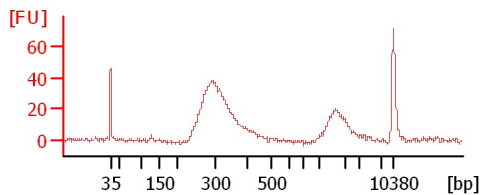
A3-A9 cDNA Lib Cleaned 1:2



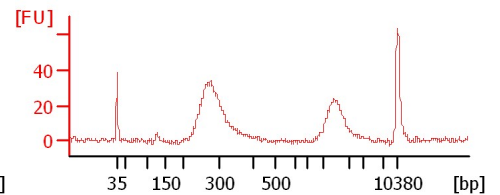
F1-A10 cDNA Lib Cleaned 1:3



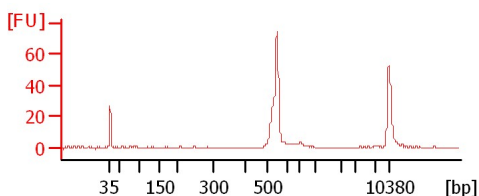
F2-A11 cDNA Lib Cleaned 1:3



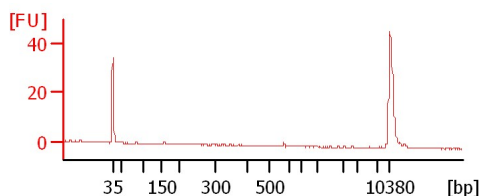
F3-A12 cDNA Lib Cleaned 1:5



18s-3



sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
O1-A4 cDNA Lib Cleaned 1:3		<input type="checkbox"/>	✓			
O2-A5 cDNA Lib Cleaned 1:3		<input type="checkbox"/>	✓			
O3-A6 cDNA Lib Cleaned 1:3		<input type="checkbox"/>	✓			
A1-A7 cDNA Lib Cleaned 1:5		<input type="checkbox"/>	✓			
A2-A8 cDNA Lib Cleaned 1:2		<input type="checkbox"/>	✓			
A3-A9 cDNA Lib Cleaned 1:2		<input type="checkbox"/>	✓			
F1-A10 cDNA Lib Cleaned 1:3		<input type="checkbox"/>	✓			
F2-A11 cDNA Lib Cleaned 1:3		<input type="checkbox"/>	✓			
F3-A12 cDNA Lib Cleaned 1:5		<input type="checkbox"/>	✓			
18s-3		<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\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
Modified: 3/8/2013 4:10:28 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

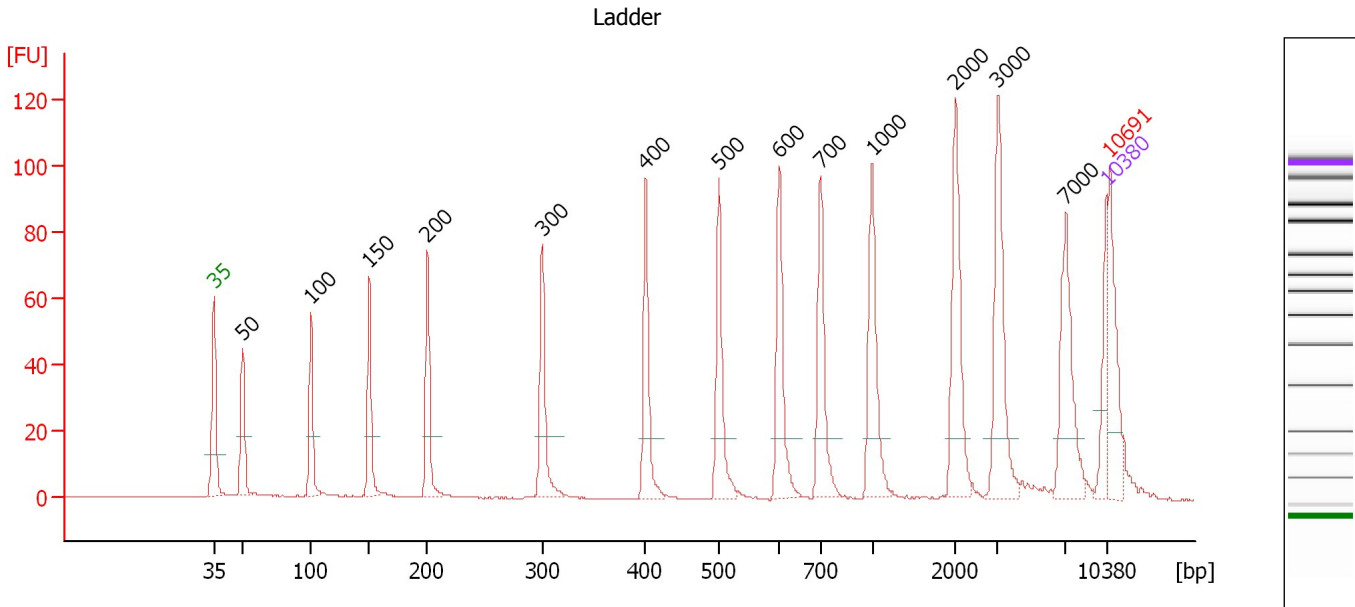
Ladder

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:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

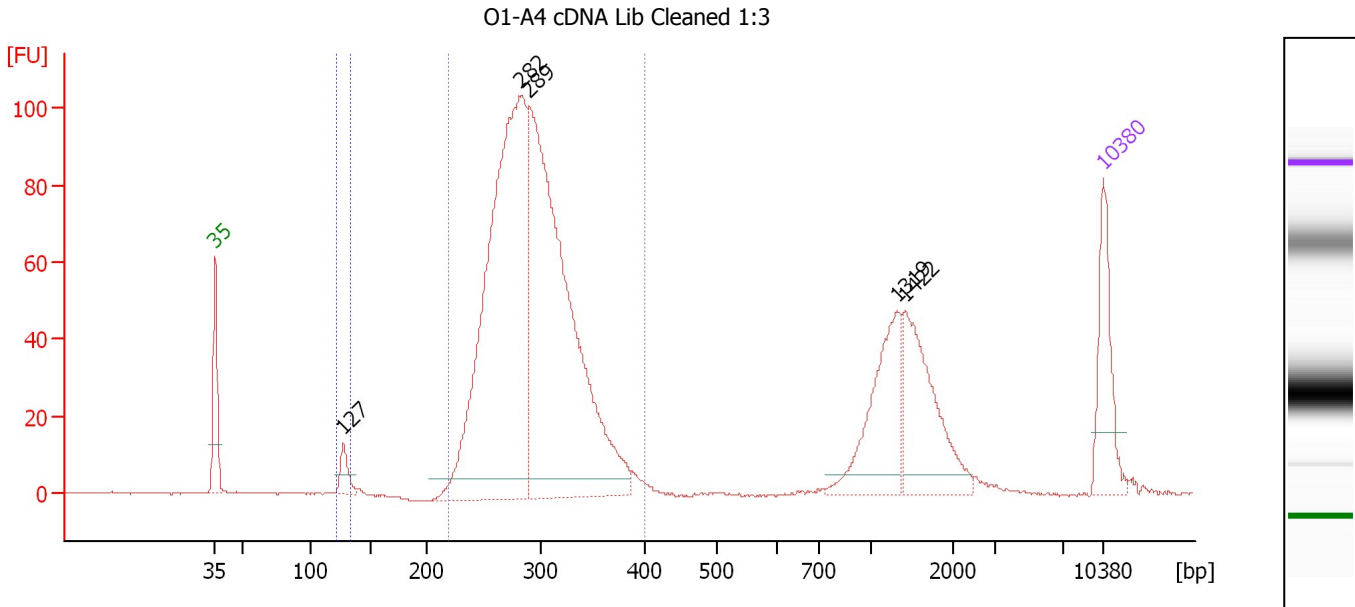
Peak table for Ladder

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	10,691	0.00	0.0	excluded peak

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : O1-A4 cDNA Lib Cleaned 1:3

Number of peaks found: 5 Corr. Area 1: 1,149.7
 Noise: 0.1 Corr. Area 2: 15.9

Peak table for sample 1 : O1-A4 cDNA Lib Cleaned 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	33.53	399.0	
3	282	866.84	4,653.9	
4	289	841.32	4,407.4	
5	1,319	135.61	155.7	
6	1,422	147.50	157.2	
7	10,380	75.00	10.9	Upper Marker

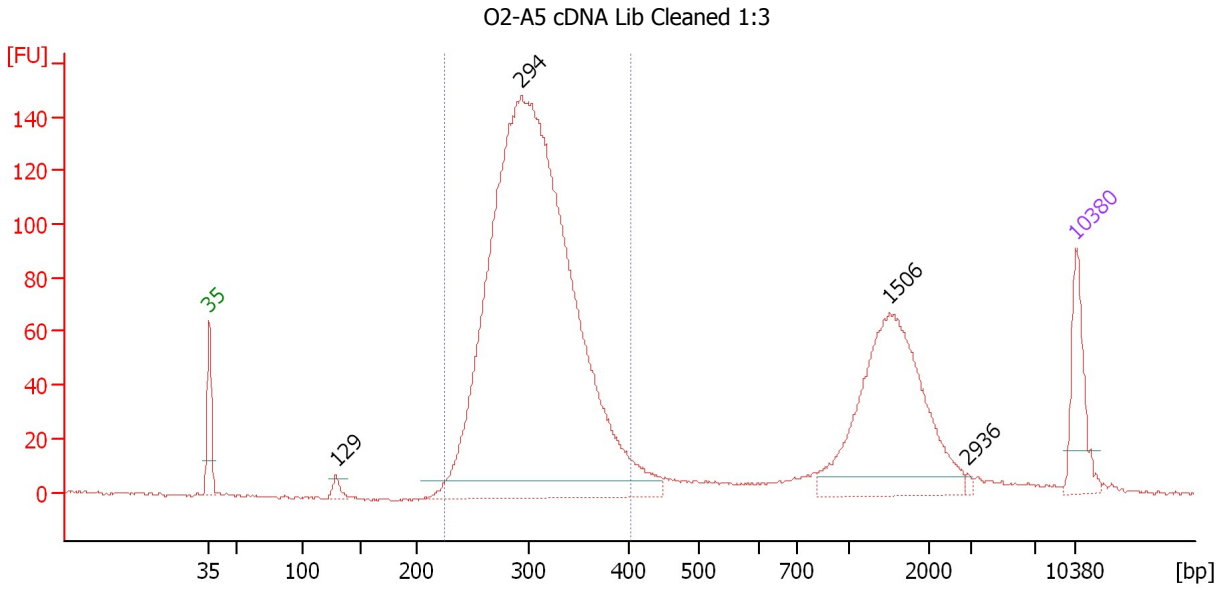
Region table for sample 1 : O1-A4 cDNA Lib Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
121	133	128	339.2	28.64	15.9	1	1.9	Blue
219	400	292	8,742.7	1,661.96	1,149.7	78	11.4	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : O2-A5 cDNA Lib Cleaned 1:3

Height Threshold [FU] : 7

Overall Results for sample 2 : O2-A5 cDNA Lib Cleaned 1:3

Number of peaks found: 4 Corr. Area 1: 1,728.2
 Noise: 0.4

Peak table for sample 2 : O2-A5 cDNA Lib Cleaned 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	17.86	210.2	
3	294	2,251.42	11,592.8	
4	1,506	370.95	373.2	
5	2,936	3.83	2.0	
6	10,380	75.00	10.9	Upper Marker

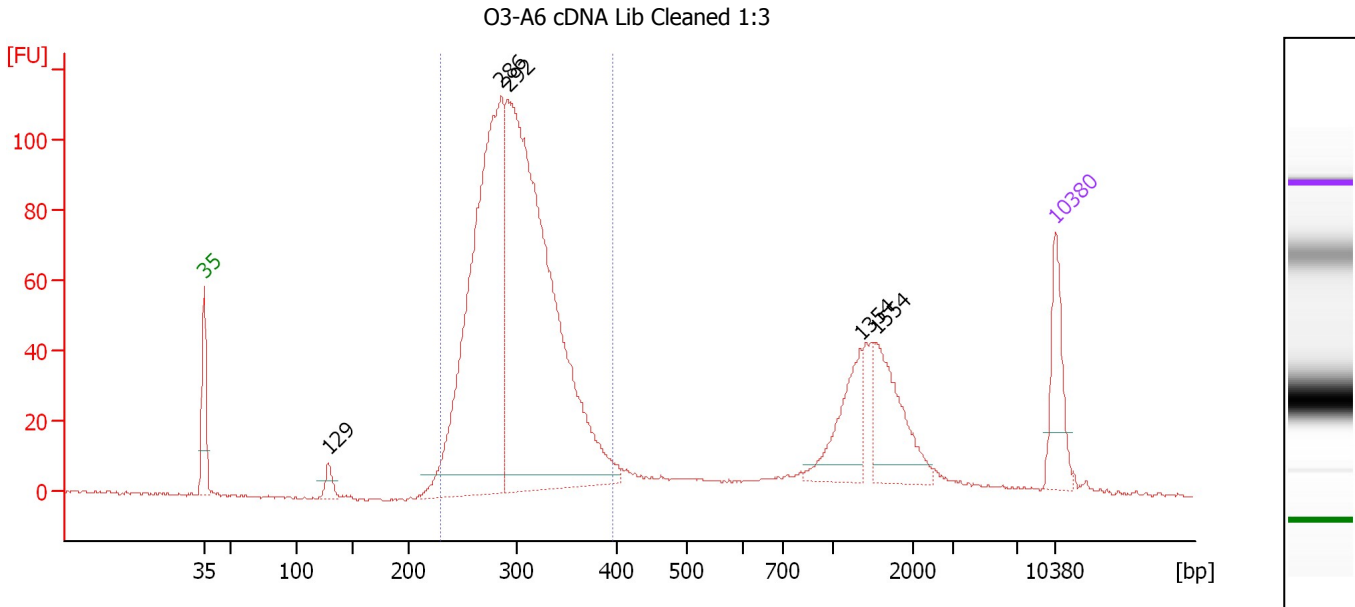
Region table for sample 2 : O2-A5 cDNA Lib Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
225	402	307	10,398.8	2,072.96	1,728.2	75	11.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : O3-A6 cDNA Lib Cleaned 1:3

Number of peaks found: 5 Corr. Area 1: 1,293.2
 Noise: 0.4

Peak table for sample 3 : O3-A6 cDNA Lib Cleaned 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	29.08	342.5	
3	286	943.97	5,003.7	
4	292	1,264.08	6,566.2	
5	1,354	101.76	113.9	
6	1,554	126.47	123.3	
7	10,380	75.00	10.9	Upper Marker

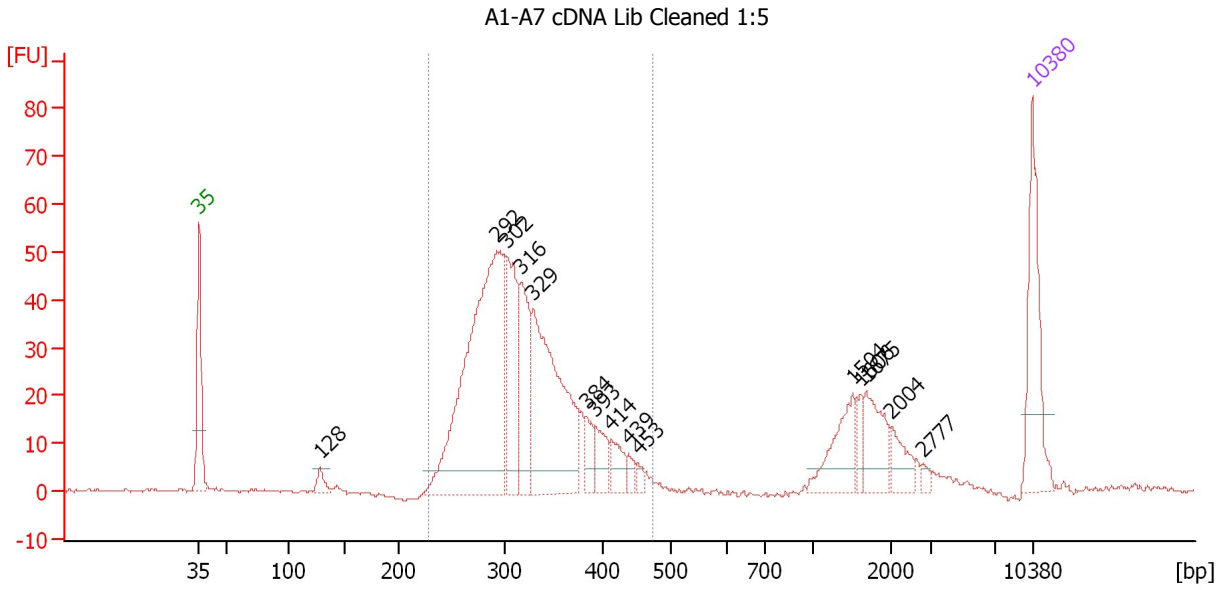
Region table for sample 3 : O3-A6 cDNA Lib Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
230	397	300	11,063.3	2,159.73	1,293.2	76	11.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A1-A7 cDNA Lib Cleaned 1:5

Number of peaks found: 15 Corr. Area 1: 655.4
 Noise: 0.4

Peak table for sample 4 : A1-A7 cDNA Lib Cleaned 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	13.95	165.4	
3	292	438.07	2,273.6	
4	302	123.14	618.7	
5	316	96.32	461.2	
6	329	246.21	1,135.3	
7	384	21.58	85.1	
8	393	31.11	120.1	
9	414	24.30	89.0	
10	439	10.51	36.3	
11	453	7.47	25.0	
12	1,504	47.86	48.2	
13	1,606	14.46	13.6	
14	1,675	43.18	39.1	
15	2,004	20.32	15.4	
16	2,777	4.53	2.5	
17	10,380	75.00	10.9	Upper Marker

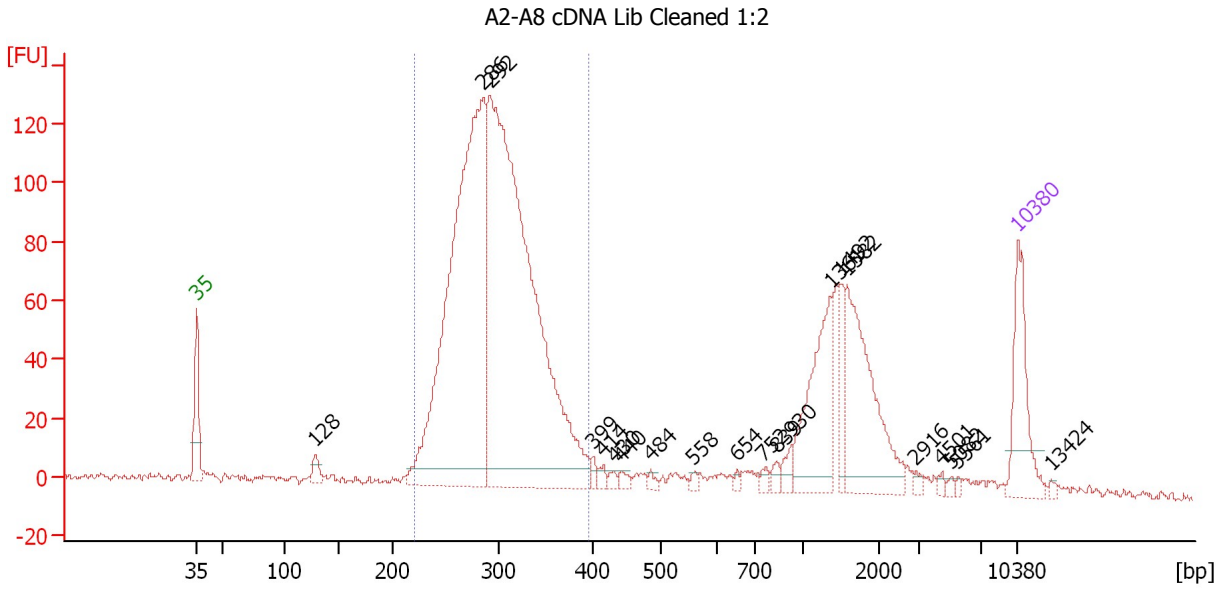
Region table for sample 4 : A1-A7 cDNA Lib Cleaned 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
228	475	320	5,028.6	1,032.28	655.4	81	15.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : A2-A8 cDNA Lib Cleaned 1:2

Height Threshold [FU] : 6

Overall Results for sample 5 : A2-A8 cDNA Lib Cleaned 1:2

Number of peaks found: 21 Corr. Area 1: 1,542.4
 Noise: 1.1

Peak table for sample 5 : A2-A8 cDNA Lib Cleaned 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	18.21	215.9	
3	286	862.49	4,572.5	
4	292	1,059.06	5,498.0	
5	399	7.78	29.5	
6	414	8.08	29.6	
7	430	6.59	23.2	
8	440	8.15	28.0	
9	484	6.02	18.9	
10	558	5.06	13.7	
11	654	4.07	9.4	
12	752	6.98	14.1	
13	839	8.31	15.0	
14	930	12.70	20.7	
15	1,361	125.47	139.7	
16	1,492	36.53	37.1	
17	1,582	162.45	155.6	
18	2,916	4.53	2.4	
19	4,501	3.53	1.2	
20	5,082	3.21	1.0	
21	5,561	2.54	0.7	
22	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : A2-A8 cDNA Lib Cleaned 1:2**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
23	13,424	0.00	0.0	

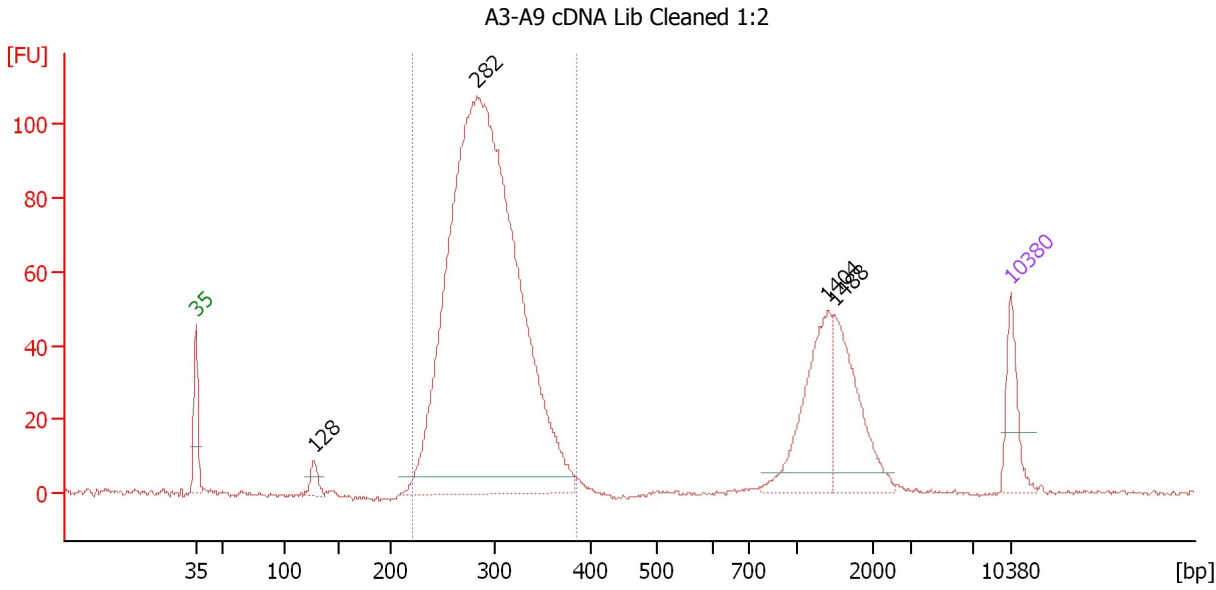
Region table for sample 5 : A2-A8 cDNA Lib Cleaned 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
221	395	297	9,553.4	1,847.00	1,542.4	72	11.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A3-A9 cDNA Lib Cleaned 1:2

Number of peaks found: 4 Corr. Area 1: 1,157.7
 Noise: 0.5

Peak table for sample 6 : A3-A9 cDNA Lib Cleaned 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	41.60	493.5	
3	282	2,731.71	14,660.0	
4	1,404	224.28	242.0	
5	1,488	202.11	205.8	
6	10,380	75.00	10.9	Upper Marker

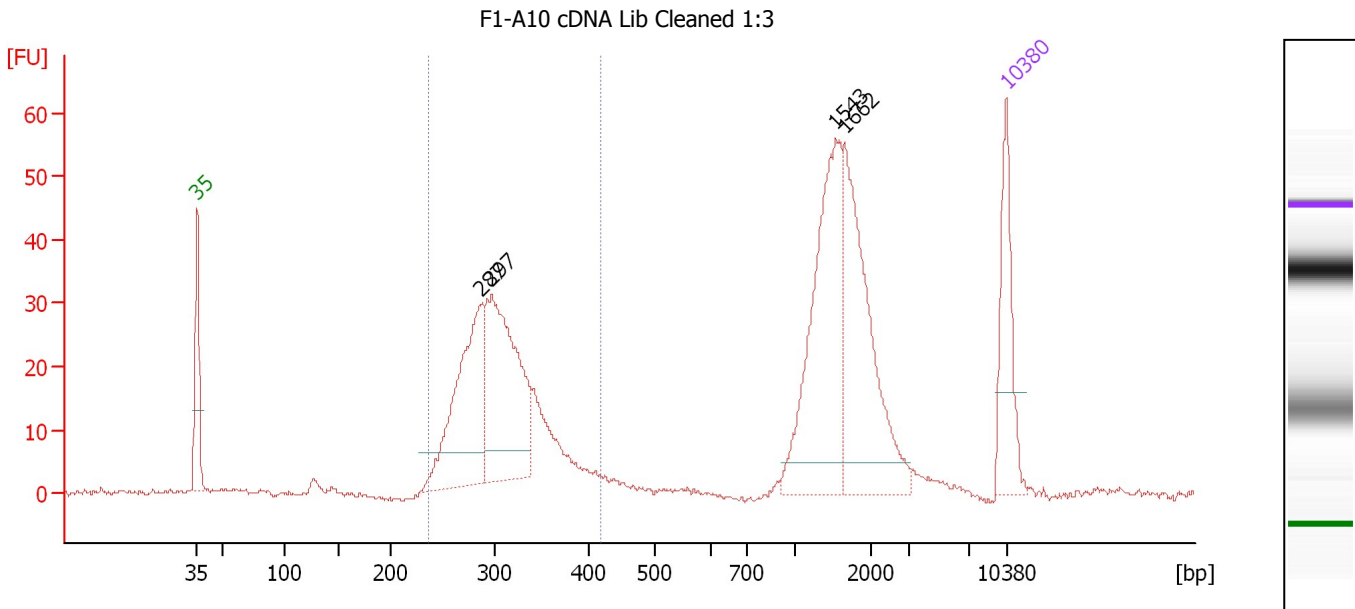
Region table for sample 6 : A3-A9 cDNA Lib Cleaned 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
221	385	292	14,045.6	2,670.77	1,157.7	77	10.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : F1-A10 cDNA Lib Cleaned 1:3

Number of peaks found: 4 Corr. Area 1: 339.8
 Noise: 0.4

Peak table for sample 7 : F1-A10 cDNA Lib Cleaned 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	236.78	1,249.3	
3	297	269.34	1,374.5	
4	1,543	226.42	222.4	
5	1,662	200.69	182.9	
6	10,380	75.00	10.9	Upper Marker

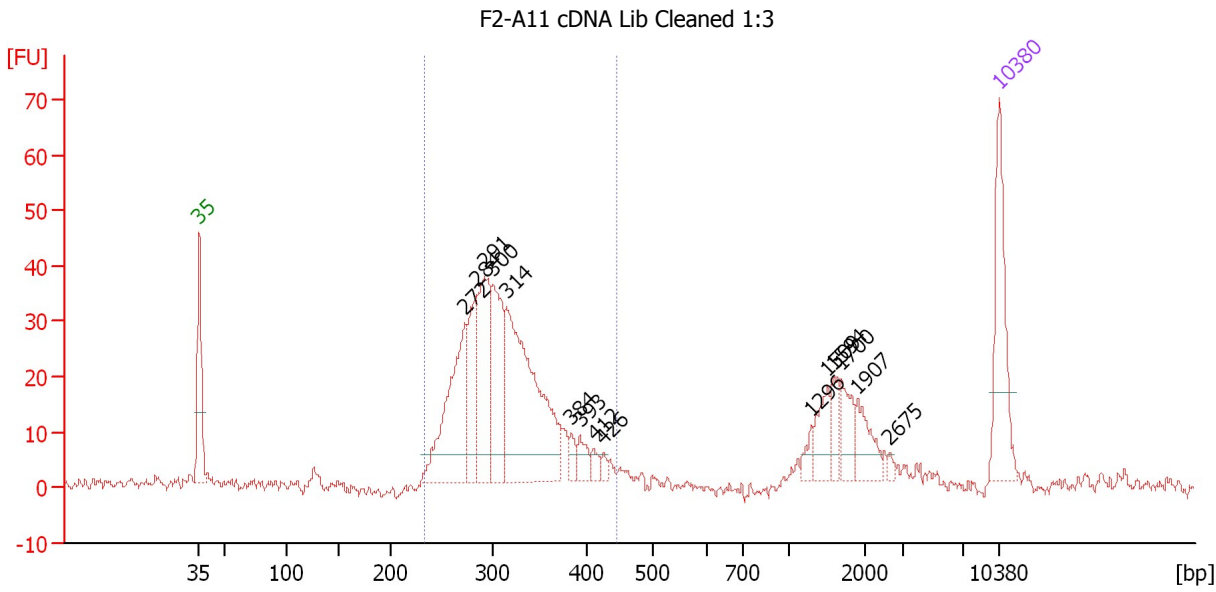
Region table for sample 7 : F1-A10 cDNA Lib Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
236	419	308	3,314.2	661.96	339.8	48	11.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : F2-A11 cDNA Lib Cleaned 1:3

Number of peaks found: 15 Corr. Area 1: 462.7
 Noise: 0.9

Peak table for sample 8 : F2-A11 cDNA Lib Cleaned 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	272	169.43	942.8	
3	284	83.42	445.5	
4	291	121.58	632.0	
5	300	112.22	567.2	
6	314	273.60	1,319.6	
7	384	12.77	50.4	
8	393	17.97	69.2	
9	412	10.26	37.7	
10	426	6.67	23.7	
11	1,296	10.45	12.2	
12	1,509	27.88	28.0	
13	1,594	17.30	16.4	
14	1,700	25.54	22.8	
15	1,907	29.78	23.7	
16	2,675	3.61	2.0	
17	10,380	75.00	10.9	Upper Marker

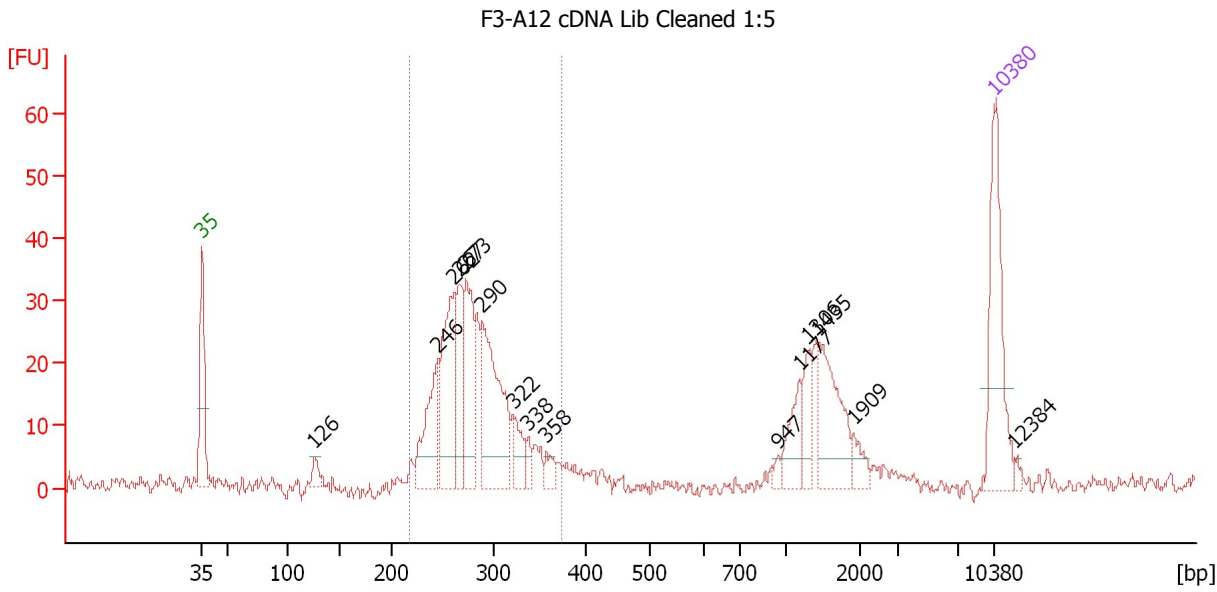
Region table for sample 8 : F2-A11 cDNA Lib Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
233	446	314	4,346.8	880.67	462.7	68	14.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : F3-A12 cDNA Lib Cleaned 1:5

Number of peaks found: 15 Corr. Area 1: 313.0
 Noise: 1.3

Peak table for sample 9 : F3-A12 cDNA Lib Cleaned 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	12.52	150.8	
3	246	73.20	451.7	
4	262	119.33	690.6	
5	267	55.09	312.5	
6	273	84.77	469.9	
7	290	134.75	705.1	
8	322	25.65	120.6	
9	338	10.61	47.6	
10	358	12.04	50.9	
11	947	4.88	7.8	
12	1,177	28.74	37.0	
13	1,306	22.76	26.4	
14	1,435	65.70	69.4	
15	1,909	12.26	9.7	
16	10,380	75.00	10.9	Upper Marker
17	12,384	0.00	0.0	

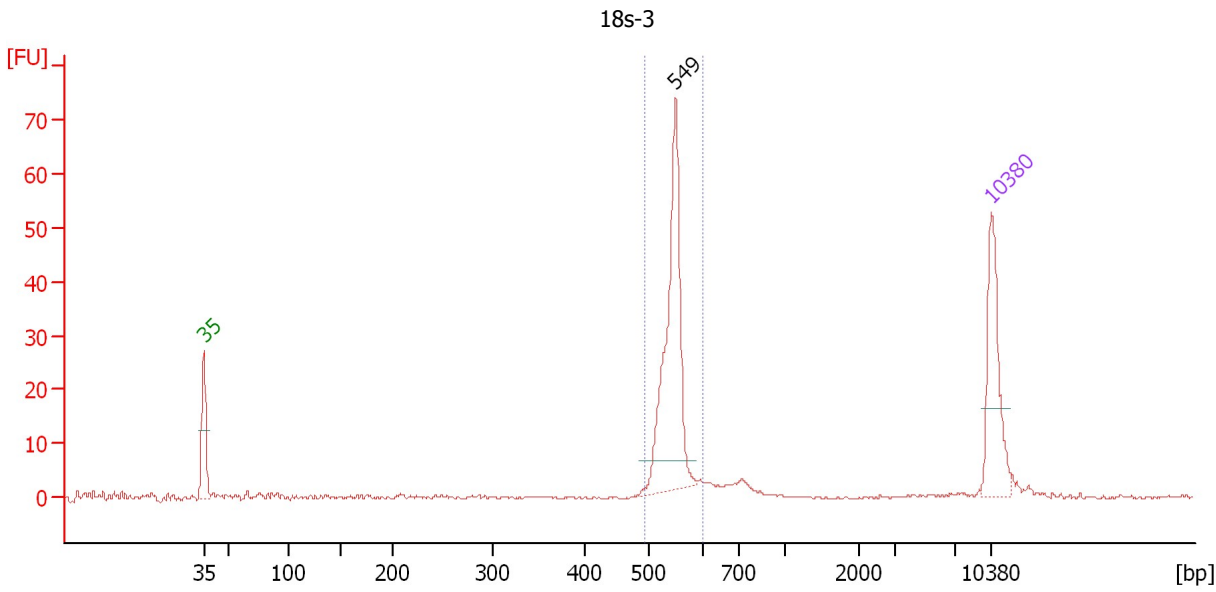
Region table for sample 9 : F3-A12 cDNA Lib Cleaned 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
219	374	281	3,051.1	559.65	313.0	67	11.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 18s-3

Number of peaks found: 1 Corr. Area 1: 128.4
 Noise: 0.2

Peak table for sample 10 : 18s-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	549	215.13	594.1	
3	10,380	75.00	10.9	Upper Marker

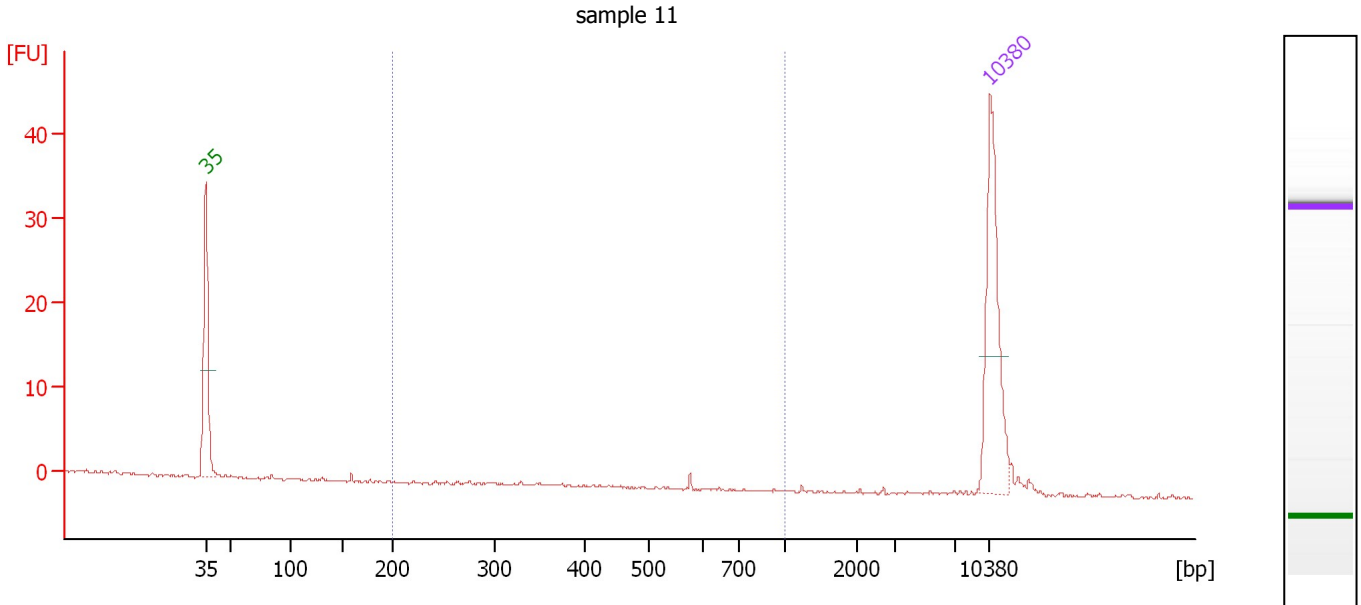
Region table for sample 10 : 18s-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
493	600	543	661.7	236.95	128.4	57	3.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Corr. Area 1: 0.3
 Noise: 0.2

Peak table for sample 11 : sample 11

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

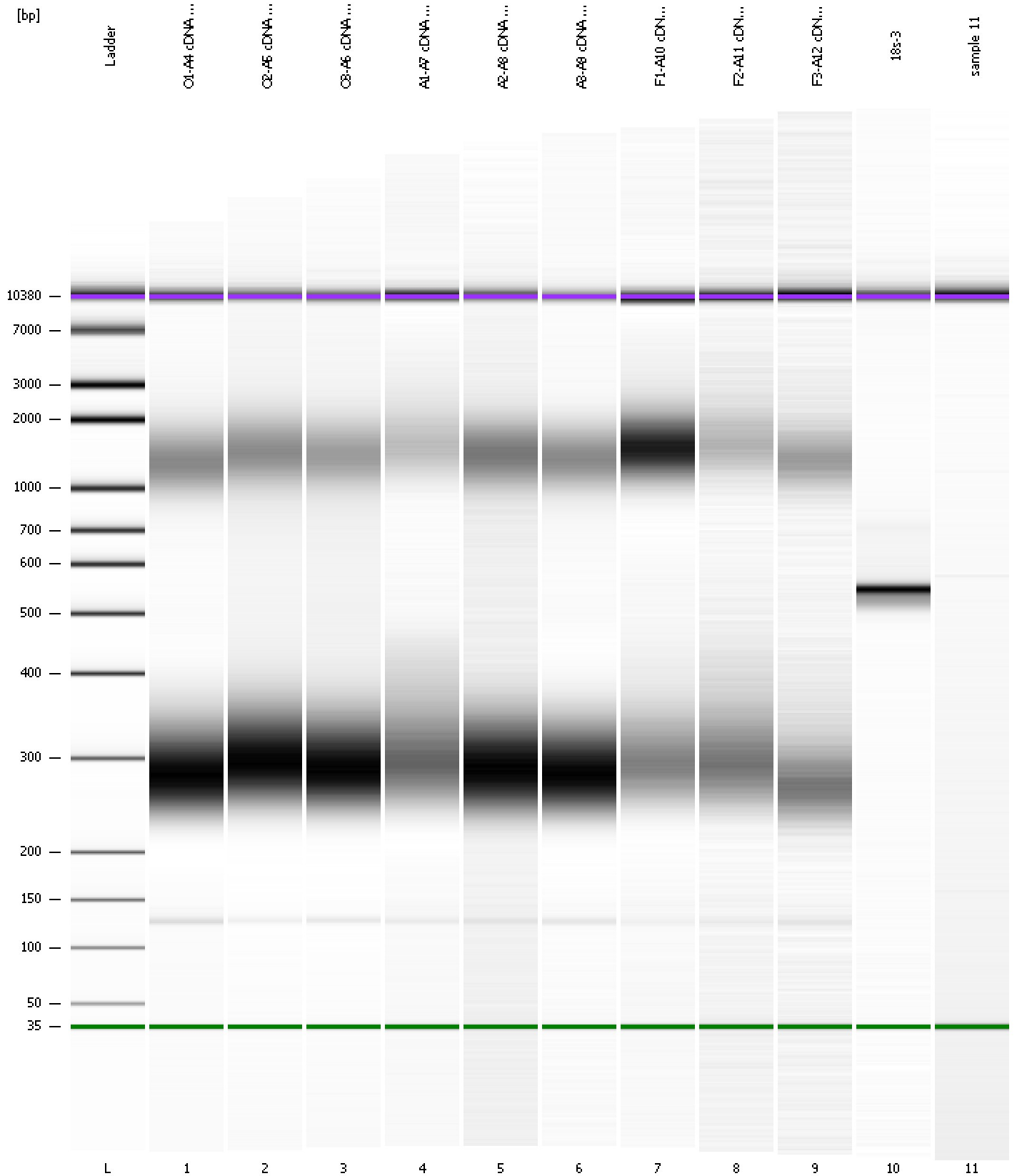
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	571	1.6	0.61	0.3	6	6.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
Modified: 3/8/2013 4:10:28 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad

Created: 3/8/2013 3:26:31 PM
 Modified: 3/8/2013 4:10:28 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		3/8/2013 4:07:51 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-08\2013-03-08_001.xad)		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/8/2013 3:26:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1