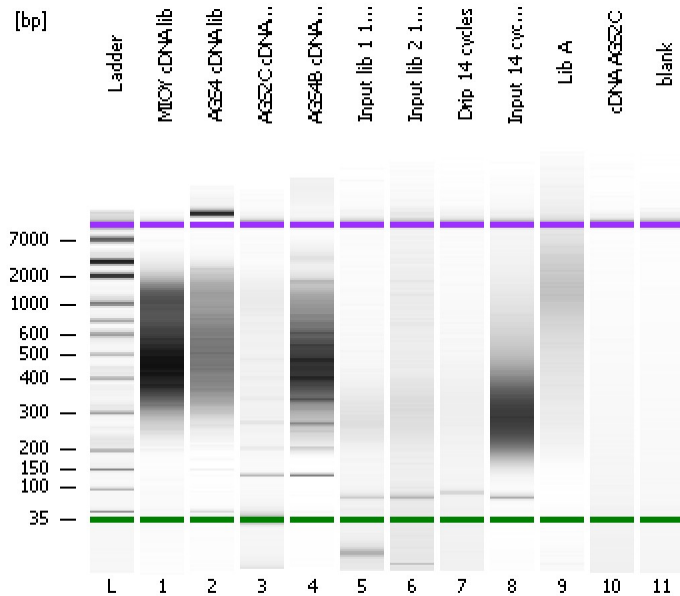


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
Modified: 4/16/2013 5:06:56 PM

**Electrophoresis File Run Summary**



Instrument Information:

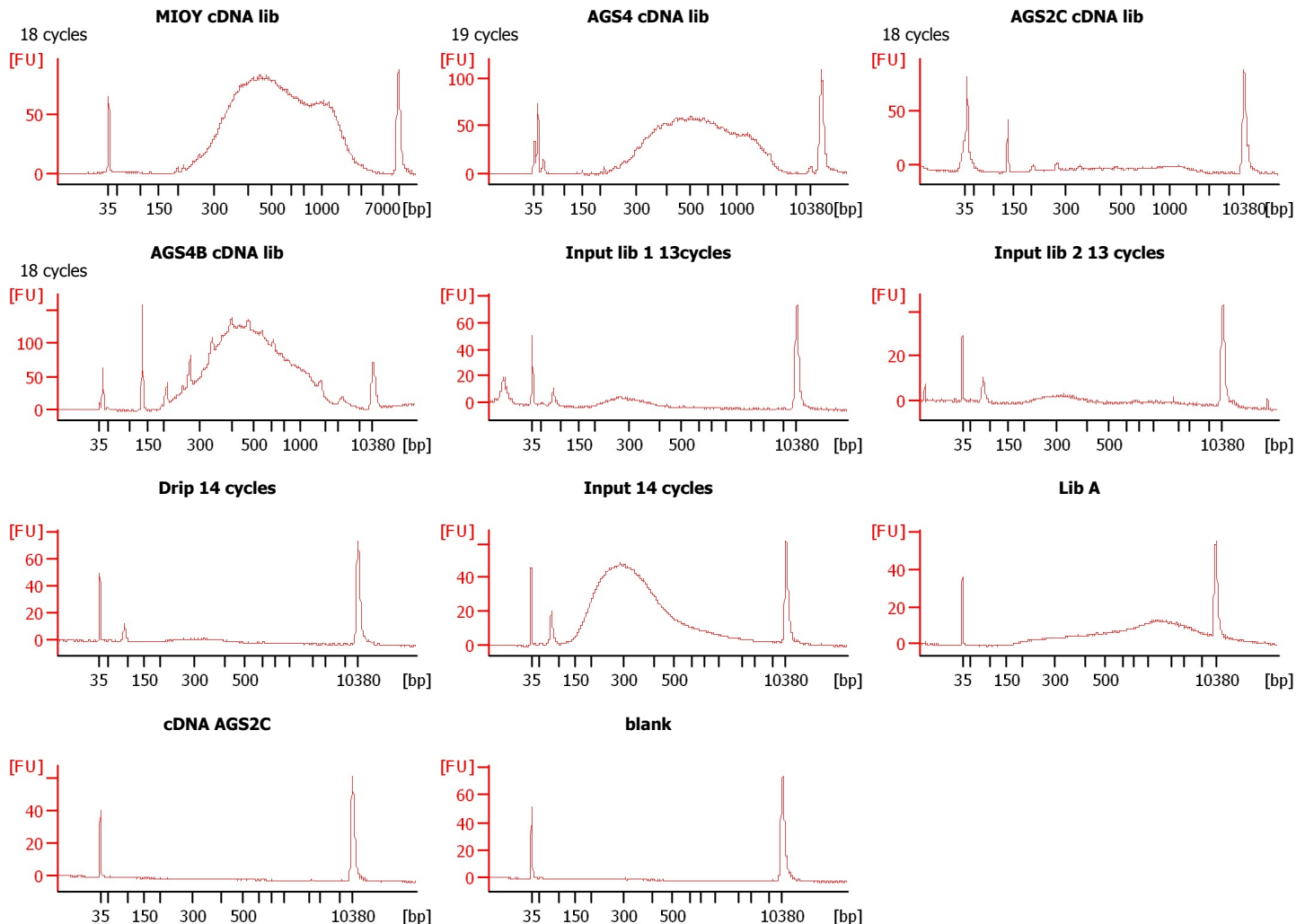
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
Modified: 4/16/2013 5:06:56 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MIOY cDNA lib	18 cycles	<input type="checkbox"/>	✓			
AGS4 cDNA lib	19 cycles	<input type="checkbox"/>	✓			
AGS2C cDNA lib	18 cycles	<input type="checkbox"/>	✓			
AGS4B cDNA lib	18 cycles	<input type="checkbox"/>	✓			
Input lib 1 13cycles		<input type="checkbox"/>	✓			
Input lib 2 13 cycles		<input type="checkbox"/>	✓			
Drip 14 cycles		<input type="checkbox"/>	✓			
Input 14 cycles		<input type="checkbox"/>	✓			
Lib A		<input type="checkbox"/>	✓			
cDNA AGS2C		<input type="checkbox"/>	✓			
blank		<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\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
Modified: 4/16/2013 5:06:56 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

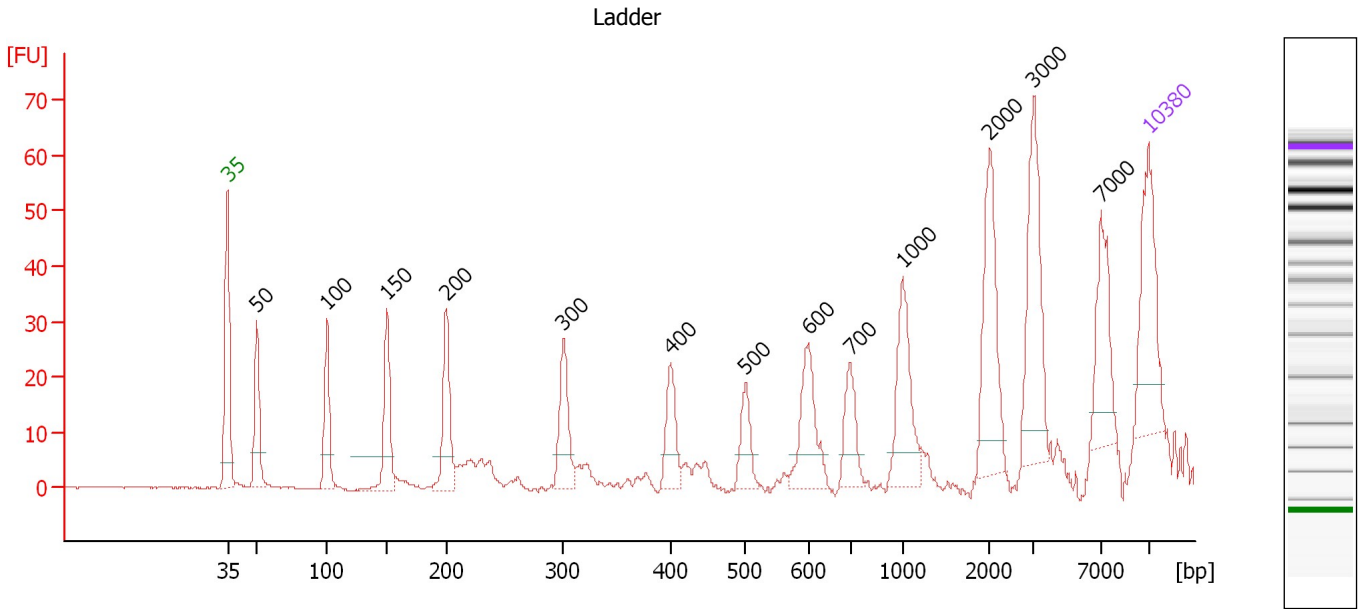
**Ladder**

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\2013-04-16\2013-04-16\_004.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

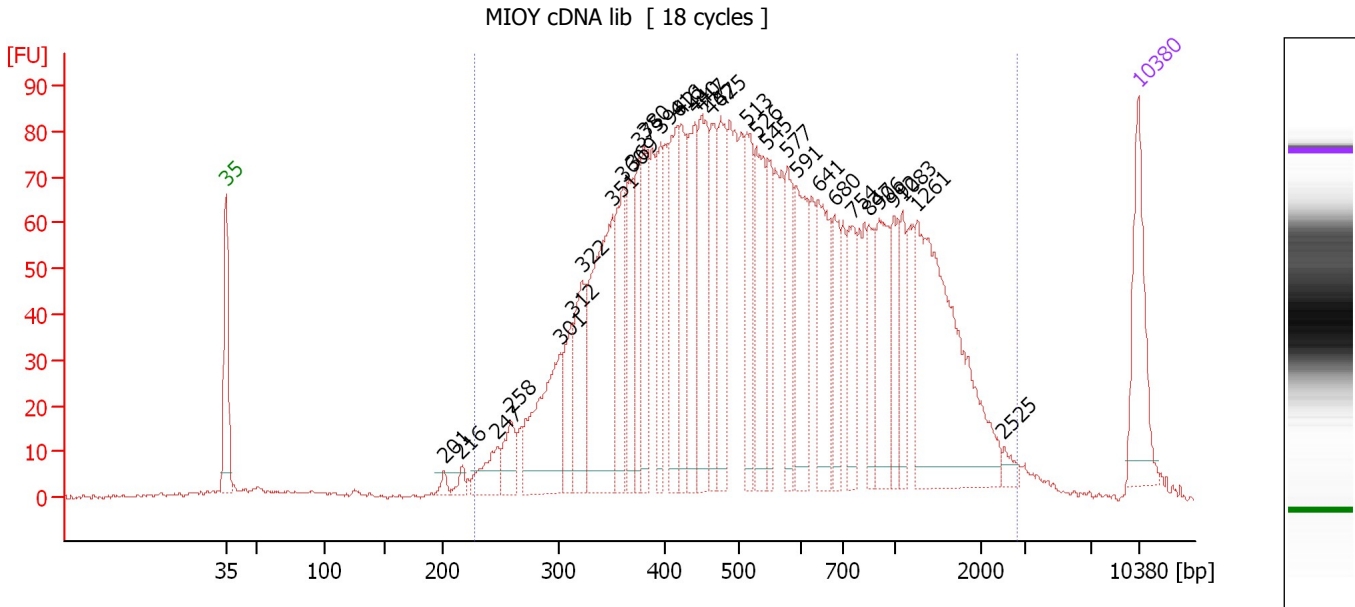
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MIOY cDNA lib**

Number of peaks found: 33                      Corr. Area 1: 2,805.9  
 Noise: 0.4

**Peak table for sample 1 : MIOY cDNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	201	8.80	66.2	
3	216	11.61	81.4	
4	247	43.39	266.3	
5	258	43.37	254.4	
6	301	157.21	791.0	
7	312	56.35	273.5	
8	322	93.04	438.2	
9	351	229.10	989.4	
10	360	99.39	417.8	
11	369	81.83	335.6	
12	375	73.53	296.7	
13	380	87.60	348.8	
14	396	79.49	304.1	
15	416	109.62	399.4	
16	421	93.30	335.9	
17	440	108.91	374.8	
18	447	122.35	414.3	
19	462	79.58	260.7	
20	475	101.63	323.9	
21	513	94.11	278.2	
22	526	106.59	306.8	
23	545	64.33	178.7	
24	577	71.20	186.9	
25	591	104.74	268.5	
26	641	102.07	241.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : MIOY cDNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	680	56.14	125.1	
28	754	62.55	125.7	
29	847	40.66	72.8	
30	906	85.80	143.5	
31	992	44.22	67.5	
32	1,083	37.46	52.4	
33	1,261	266.23	319.8	
34	2,525	8.54	5.1	
35	10,380	75.00	10.9	Upper Marker

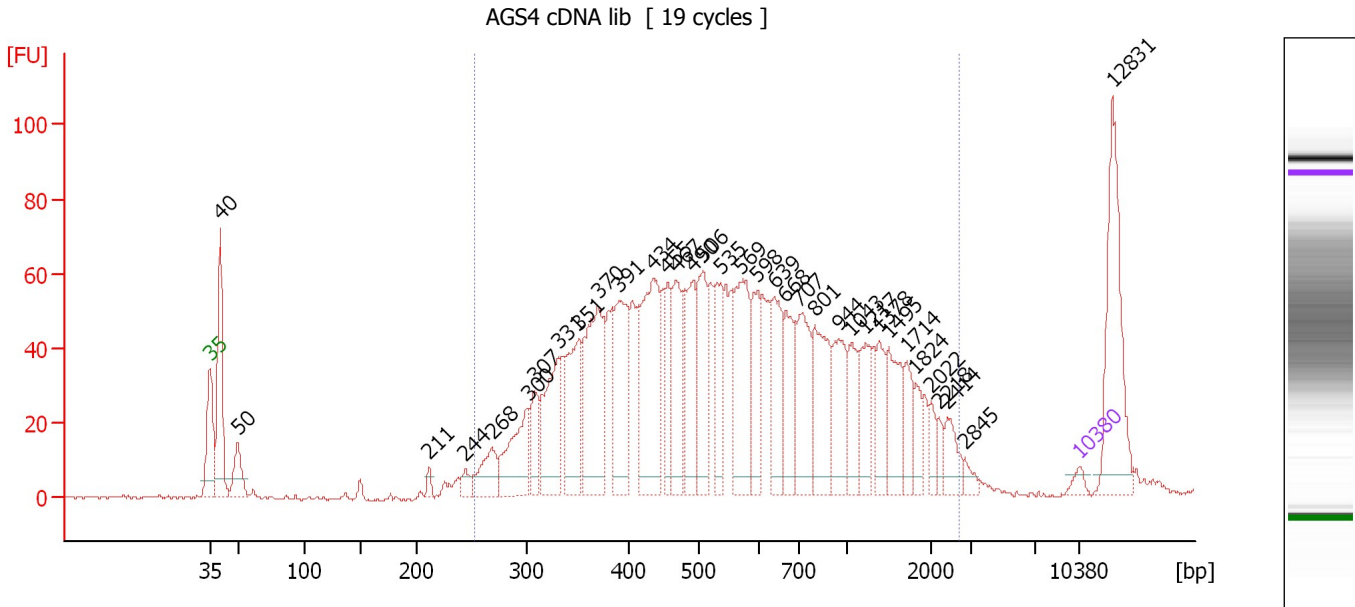
**Region table for sample 1 : MIOY cDNA lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
227	2,847	669	11,530.1	3,605.96	2,805.9	96	64.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : AGS4 cDNA lib**

Number of peaks found: 35                      Corr. Area 1: 1,967.7  
 Noise: 0.4

**Peak table for sample 2 : AGS4 cDNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	1,863.00	69,725.4	
3	50	561.26	17,004.3	
4	211	94.61	678.3	
5	244	160.26	997.0	
6	268	562.07	3,176.6	
7	300	1,091.90	5,508.3	
8	307	540.64	2,666.6	
9	331	1,323.26	6,059.4	
10	351	1,217.34	5,256.6	
11	370	2,012.51	8,244.8	
12	391	1,530.54	5,932.5	
13	434	1,905.91	6,660.6	
14	455	637.92	2,126.3	
15	467	1,024.27	3,326.2	
16	490	955.83	2,956.5	
17	506	1,025.31	3,071.1	
18	535	767.54	2,174.6	
19	569	1,358.10	3,615.4	
20	598	742.33	1,880.5	
21	639	821.96	1,949.8	
22	668	729.99	1,655.3	
23	707	1,049.84	2,249.0	
24	801	1,083.42	2,048.8	
25	944	723.00	1,160.7	
26	1,043	527.92	767.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad


Created: 4/16/2013 4:23:18 PM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : AGS4 cDNA lib**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	1,217	534.75	665.7	
28	1,378	427.68	470.1	
29	1,495	665.47	674.7	
30	1,714	337.38	298.3	
31	1,824	238.34	198.0	
32	2,022	164.30	123.1	
33	2,218	127.77	87.3	
34	2,414	287.85	180.7	
35	2,845	95.51	50.9	
36	▶ 10,380	75.00	10.9	Upper Marker
37	12,831	0.00	0.0	

**Region table for sample 2 : AGS4 cDNA lib**

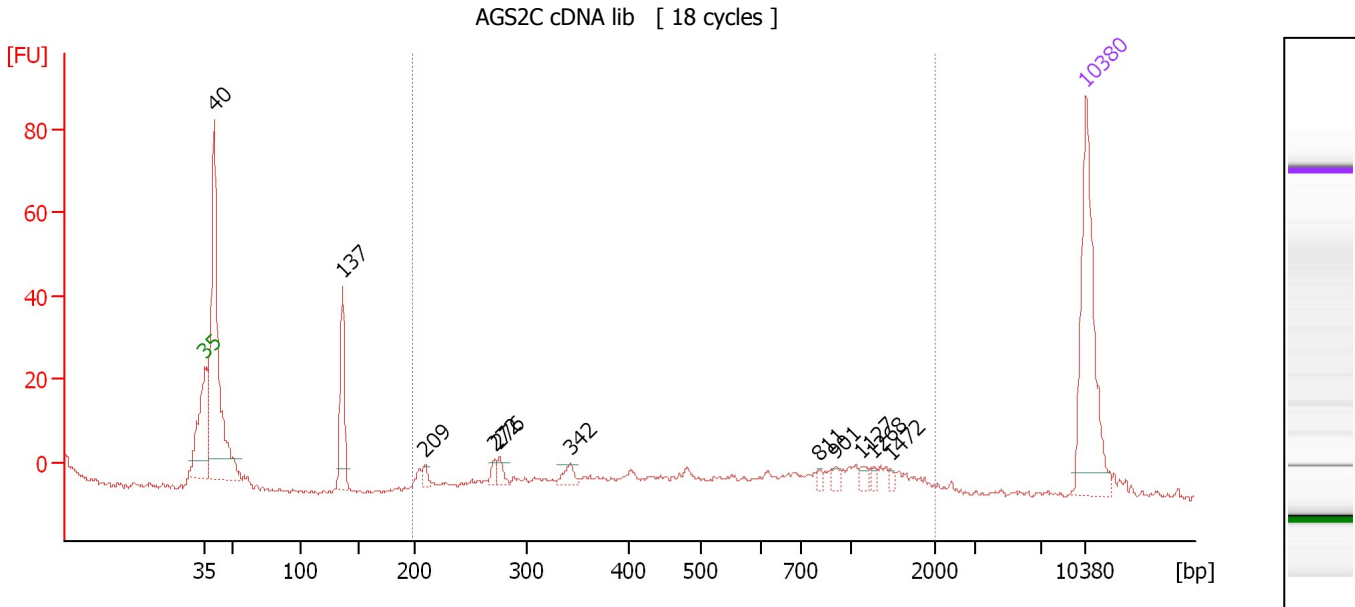
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
252	2,685	706	90,524.2	29,371.87	1,967.7	88	66.5	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : AGS2C cDNA lib**

Number of peaks found: 11                      Corr. Area 1: 102.2  
 Noise: 0.5

**Peak table for sample 3 : AGS2C cDNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	244.44	9,294.7	
3	137	57.60	637.3	
4	209	5.62	40.7	
5	272	5.48	30.6	
6	276	6.99	38.4	
7	342	8.64	38.2	
8	811	2.73	5.1	
9	901	3.87	6.5	
10	1,127	3.91	5.3	
11	1,268	2.97	3.6	
12	1,472	2.62	2.7	
13	10,380	75.00	10.9	Upper Marker

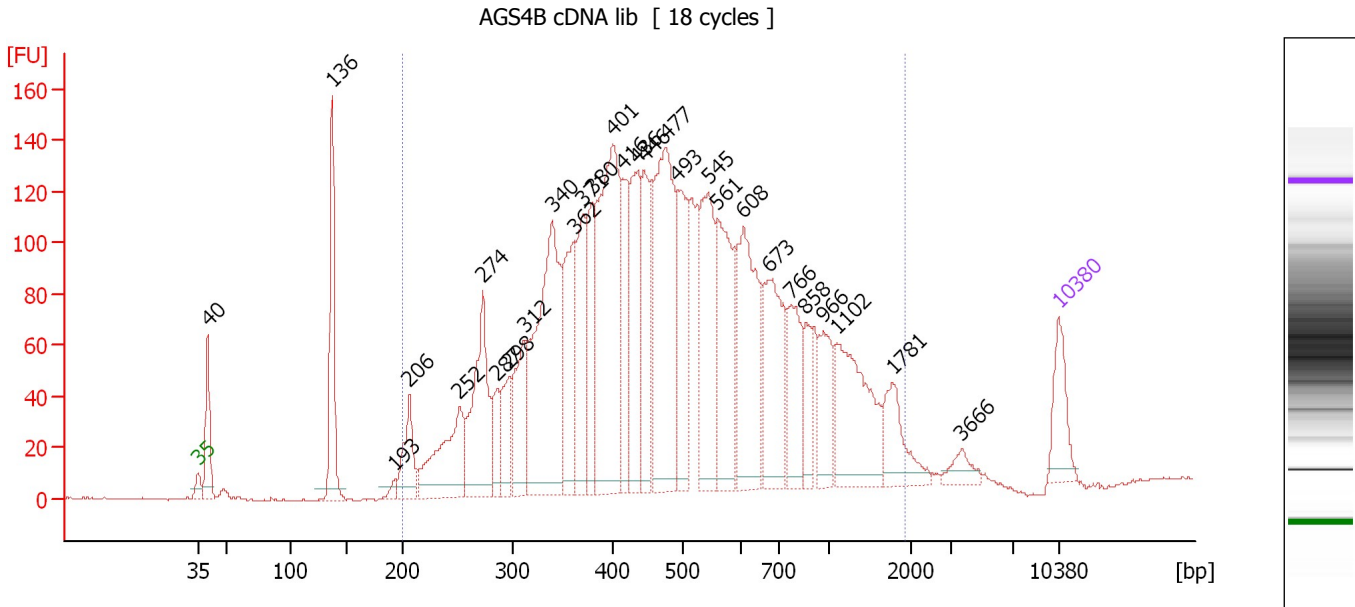
**Region table for sample 3 : AGS2C cDNA lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
198	2,024	835	286.1	99.12	102.2	36	54.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : AGS4B cDNA lib**

Number of peaks found: 29                      Corr. Area 1: 3,930.3  
 Noise: 0.3

**Peak table for sample 4 : AGS4B cDNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	153.05	5,760.6	
3	136	279.18	3,099.1	
4	193	16.39	128.5	
5	206	116.14	852.8	
6	252	242.98	1,460.3	
7	274	297.59	1,648.5	
8	287	73.29	387.4	
9	298	103.32	525.6	
10	312	170.62	828.5	
11	340	556.35	2,477.4	
12	362	246.09	1,029.7	
13	371	205.32	838.1	
14	380	159.92	637.3	
15	401	566.96	2,140.0	
16	416	154.56	563.2	
17	436	241.88	839.9	
18	446	174.40	592.2	
19	477	478.65	1,521.7	
20	493	236.31	725.8	
21	545	274.31	762.6	
22	561	284.51	769.0	
23	608	317.37	790.9	
24	673	248.49	559.4	
25	766	150.24	297.2	
26	858	67.63	119.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : AGS4B cDNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	966	110.43	173.2	
28	1,102	242.17	333.1	
29	1,781	95.79	81.5	
30	3,666	30.02	12.4	
31	10,380	75.00	10.9	Upper Marker

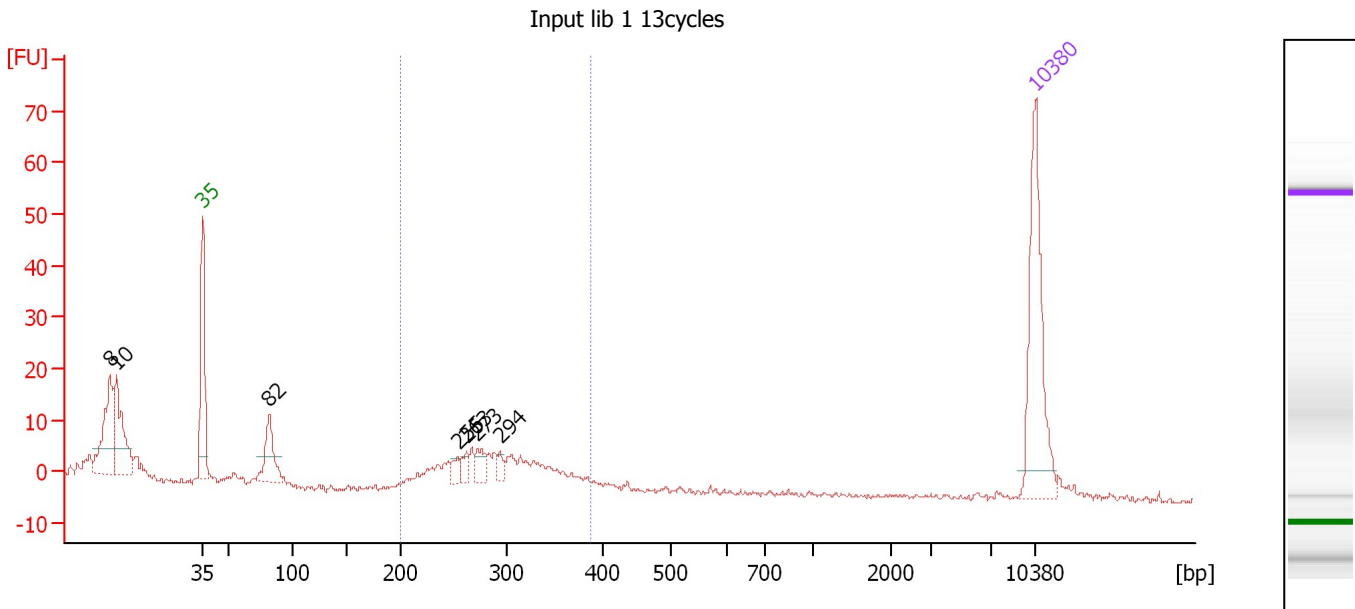
#### Region table for sample 4 : AGS4B cDNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,925	559	21,120.9	5,972.37	3,930.3	94	55.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Input lib 1 13cycles**

Number of peaks found: 7                      Corr. Area 1: 92.3  
 Noise: 0.6

**Peak table for sample 5 : Input lib 1 13cycles**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	8	0.00	0.0	
2	10	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	82	44.29	822.9	
5	255	8.17	48.7	
6	263	8.67	50.0	
7	273	14.21	78.8	
8	294	6.38	32.8	
9	10,380	75.00	10.9	Upper Marker

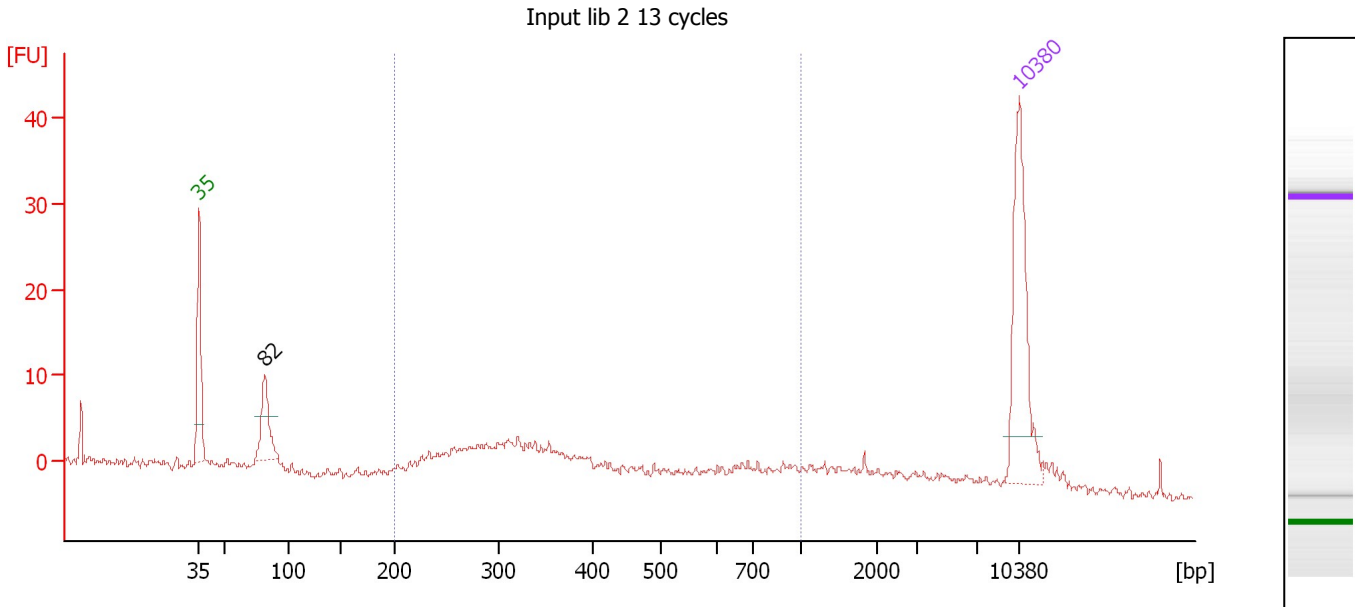
**Region table for sample 5 : Input lib 1 13cycles**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	388	293	703.1	132.84	92.3	37	14.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Input lib 2 13 cycles**

Number of peaks found: 1                      Corr. Area 1: 90.8  
 Noise: 0.5

**Peak table for sample 6 : Input lib 2 13 cycles**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	49.44	918.9	
3	10,380	75.00	10.9	Upper Marker

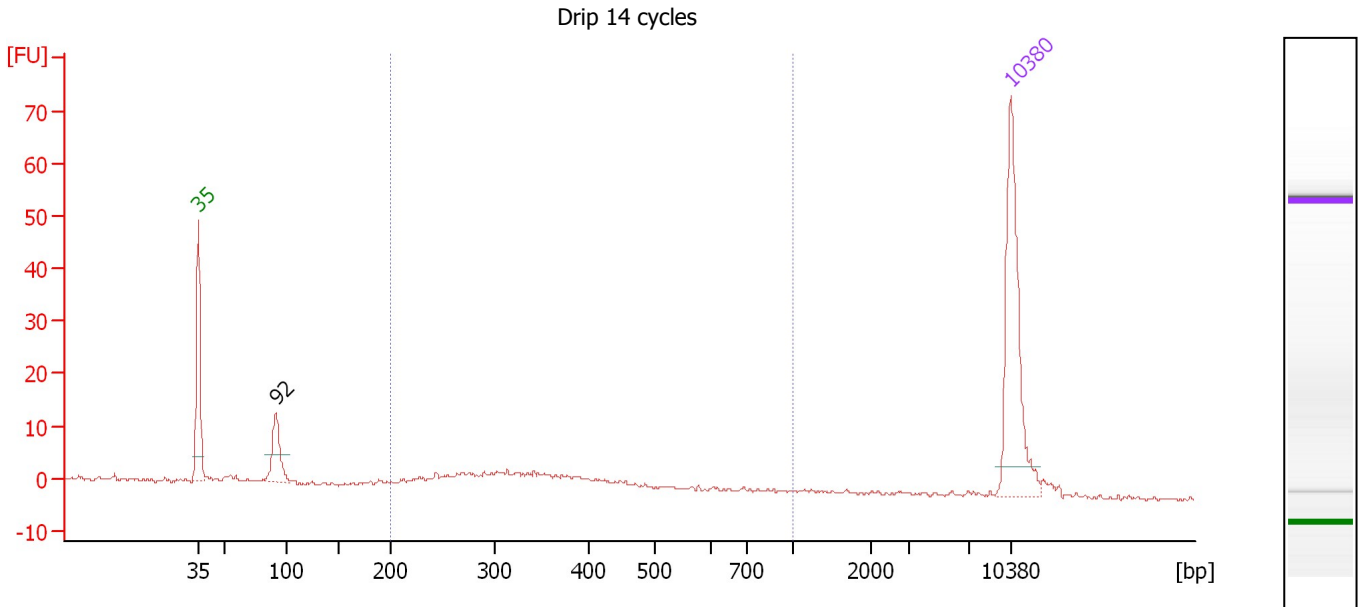
**Region table for sample 6 : Input lib 2 13 cycles**

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	427	860.3	196.78	90.8	59	44.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Drip 14 cycles**

Number of peaks found: 1                      Corr. Area 1: 66.2  
 Noise: 0.3

**Peak table for sample 7 : Drip 14 cycles**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	92	38.78	639.9	
3	10,380	75.00	10.9	Upper Marker

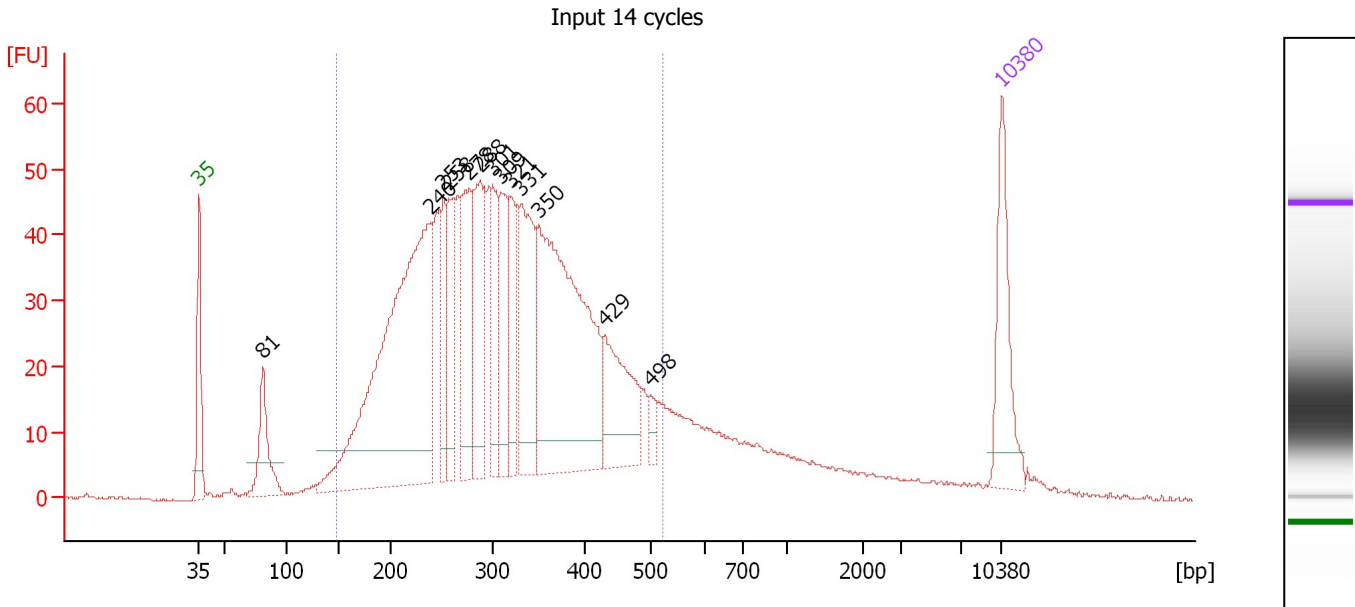
**Region table for sample 7 : Drip 14 cycles**

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	364	420.8	89.93	66.2	59	34.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Input 14 cycles**

Number of peaks found: 13                      Corr. Area 1: 1,354.8  
 Noise: 0.2

**Peak table for sample 8 : Input 14 cycles**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	90.30	1,691.4	
3	240	625.35	3,947.7	
4	253	80.10	480.6	
5	258	86.52	508.6	
6	278	120.15	654.6	
7	288	125.28	659.1	
8	301	79.28	399.6	
9	309	92.70	454.4	
10	321	77.76	367.6	
11	331	147.47	674.2	
12	350	418.29	1,812.6	
13	429	115.74	408.6	
14	498	14.43	43.9	
15	10,380	75.00	10.9	Upper Marker

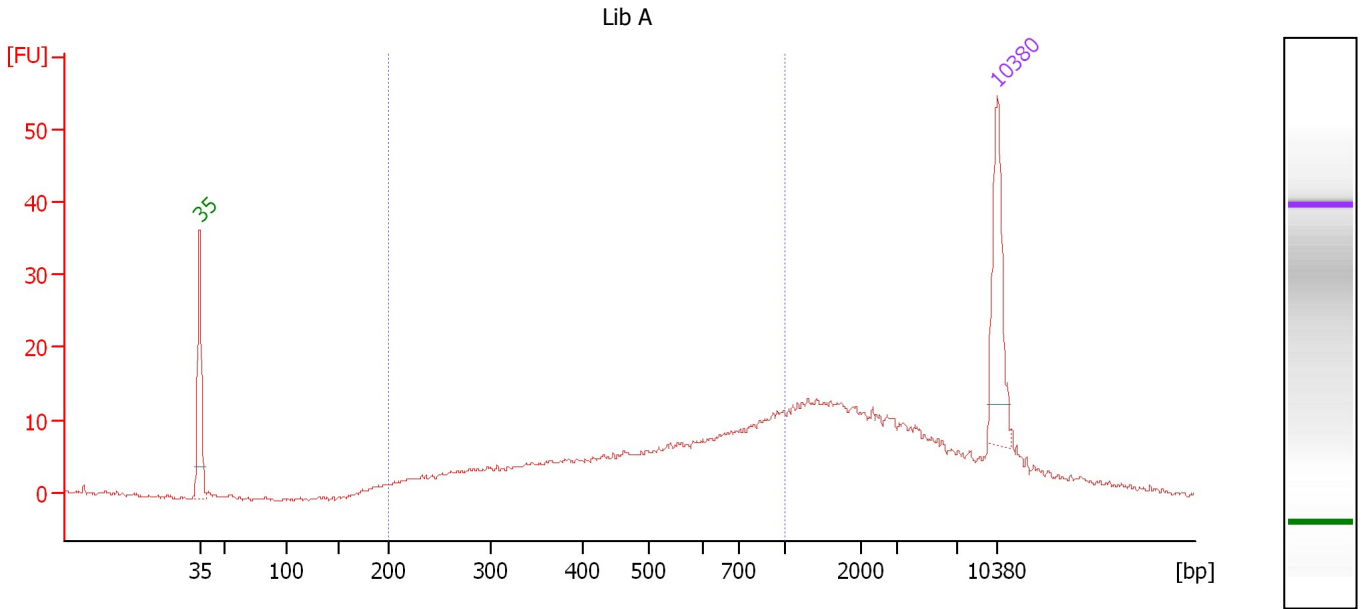
**Region table for sample 8 : Input 14 cycles**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
148	521	312	13,766.0	2,545.44	1,354.8	84	26.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Lib A**

Number of peaks found: 0                      Corr. Area 1: 234.8  
 Noise: 0.3

**Peak table for sample 9 : Lib A**

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 9 : Lib A**

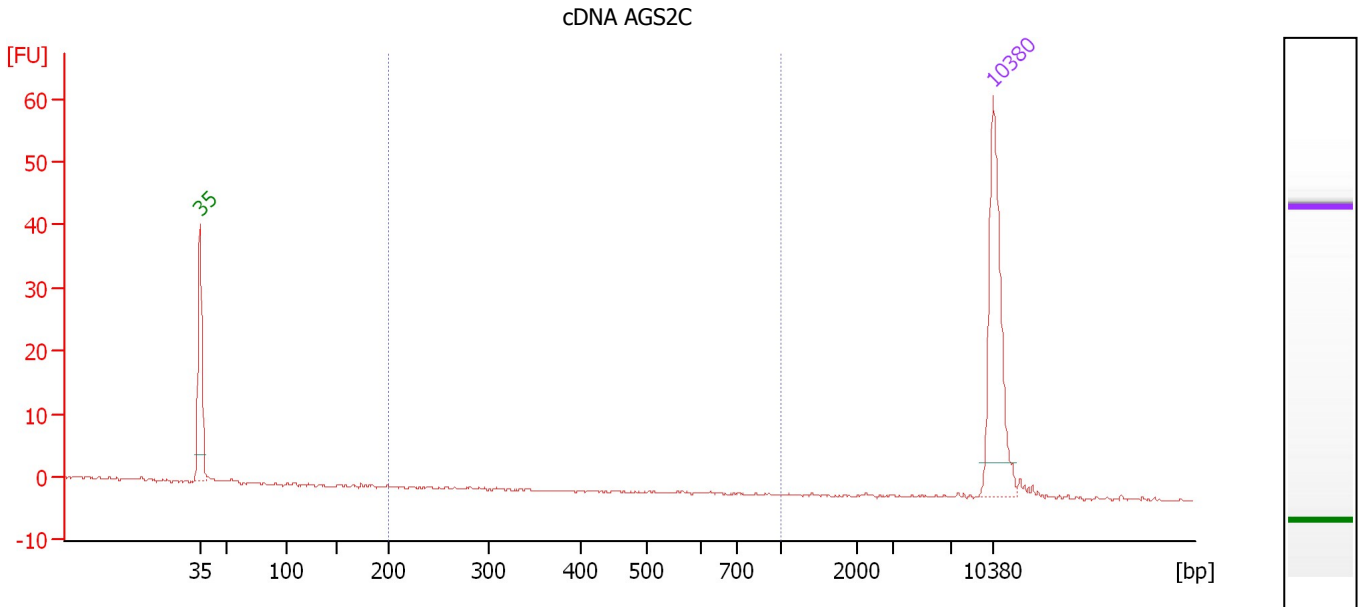
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	543	2,060.3	581.87	234.8	53	38.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : cDNA AGS2C**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 10 : cDNA AGS2C**

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

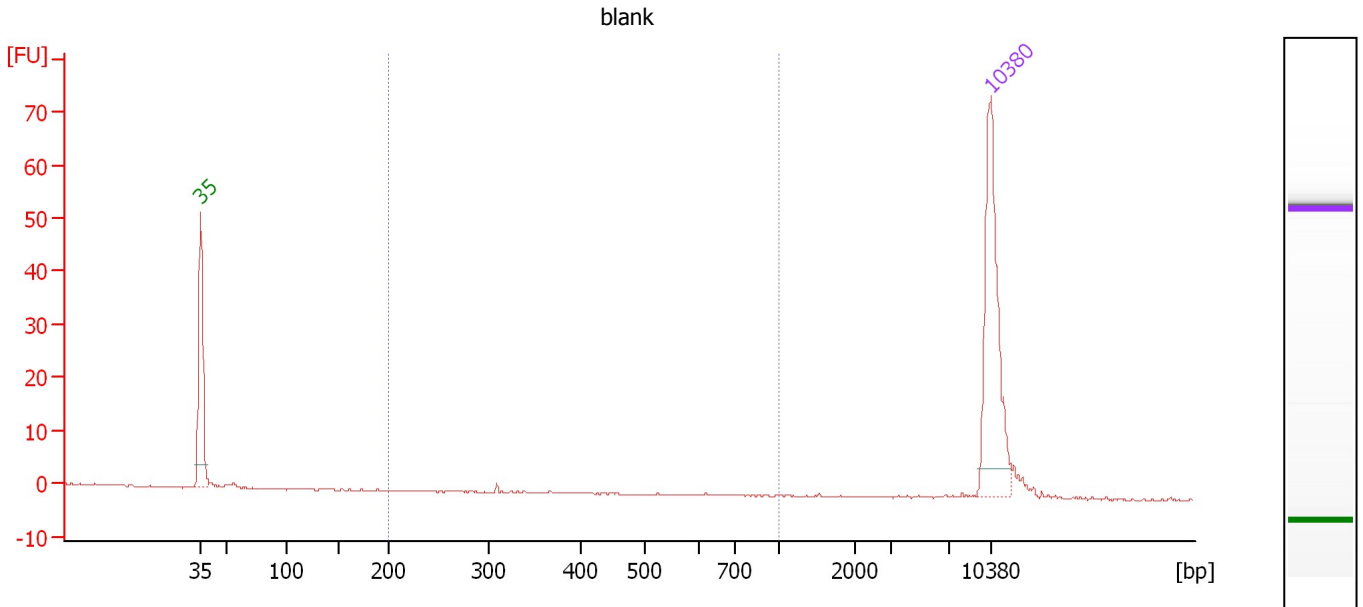
**Region table for sample 10 : cDNA AGS2C**

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	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : blank**

Number of peaks found: 0                      Corr. Area 1: 0.4  
 Noise: 0.1

**Peak table for sample 11 : blank**

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

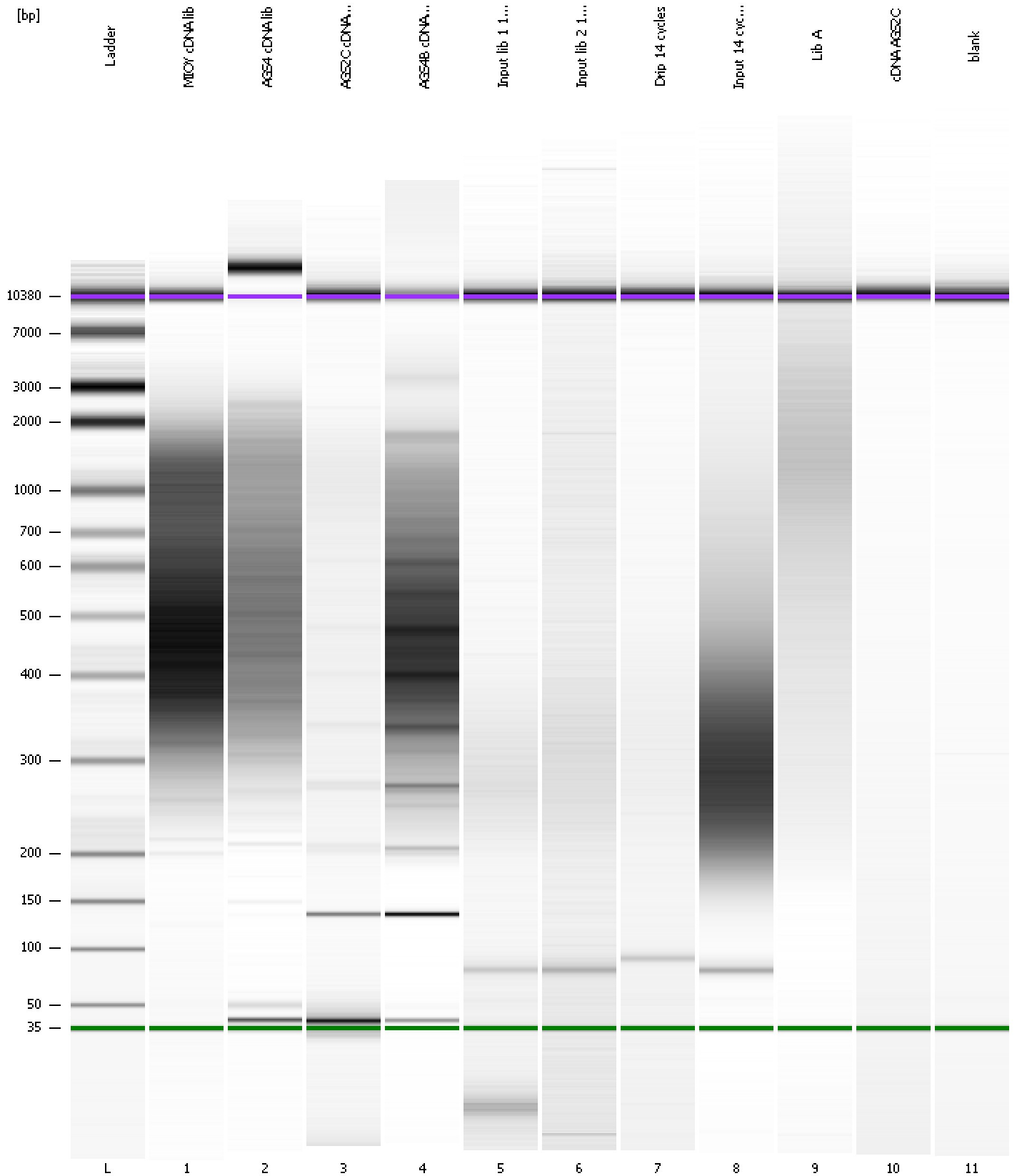
**Region table for sample 11 : blank**

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	310	2.6	0.54	0.4	3	3.3	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
Modified: 4/16/2013 5:06:56 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_004.xad

Created: 4/16/2013 4:23:18 PM  
 Modified: 4/16/2013 5:06:56 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		4/16/2013 5:04:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-16\2013-04-16_004.xad)		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/16/2013 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1