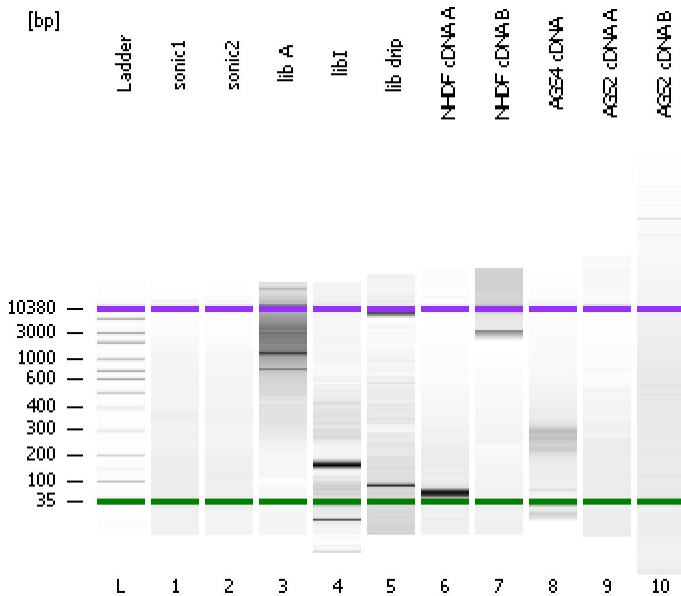


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electrophoresis File Run Summary



Instrument Information:

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

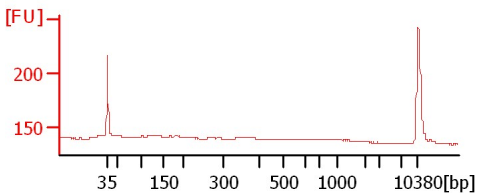
Assay Information:

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

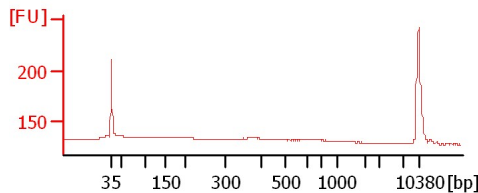
Chip Information:

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

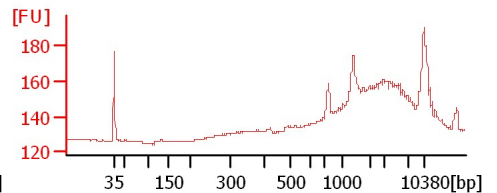
sonic1



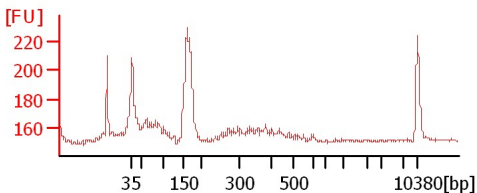
sonic2



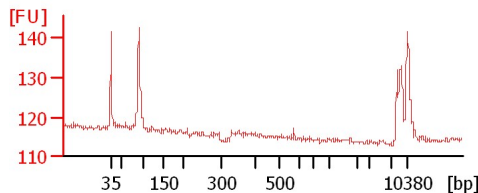
lib A



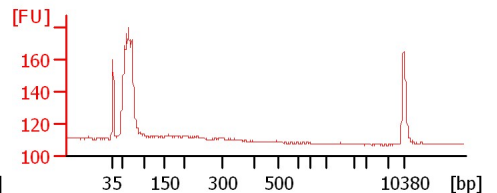
lib I



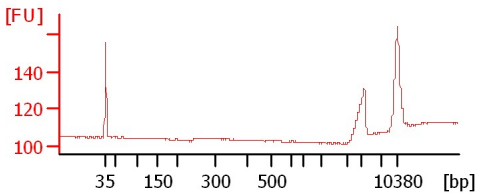
lib drip



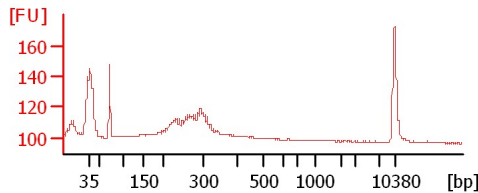
NHDF cDNA A



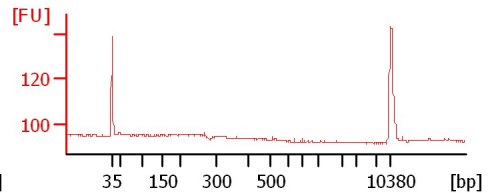
NHDF cDNA B



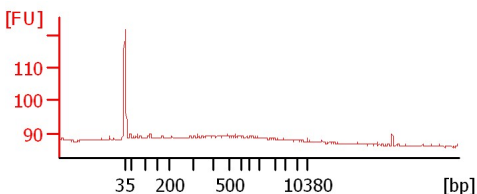
AGS4 cDNA



AGS2 cDNA A



AGS2 cDNA B



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sonic1		<input type="checkbox"/>	✓			
sonic2		<input type="checkbox"/>	✓			
lib A		<input type="checkbox"/>	✓			
lib I		<input type="checkbox"/>	✓			
lib drip		<input type="checkbox"/>	✓			
NHDF cDNA A		<input type="checkbox"/>	✓			
NHDF cDNA B		<input type="checkbox"/>	✓			
AGS4 cDNA		<input type="checkbox"/>	✓			
AGS2 cDNA A		<input type="checkbox"/>	✓			
AGS2 cDNA B		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
Modified: 4/3/2013 11:13:05 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

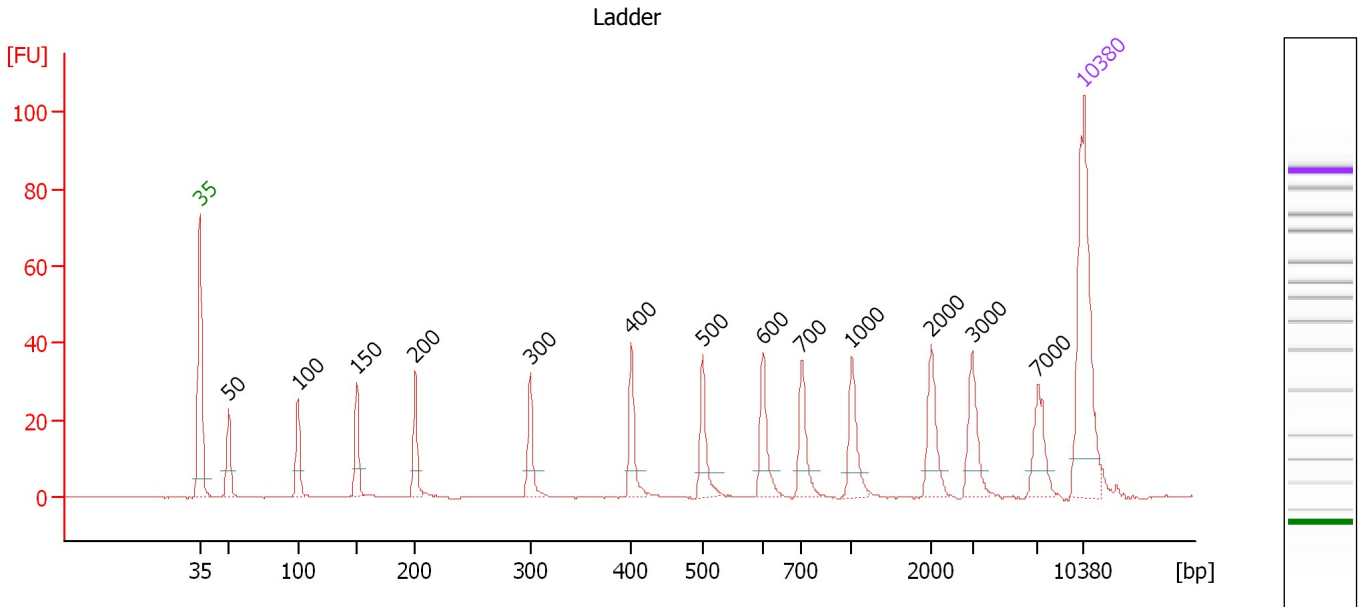
Ladder

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:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

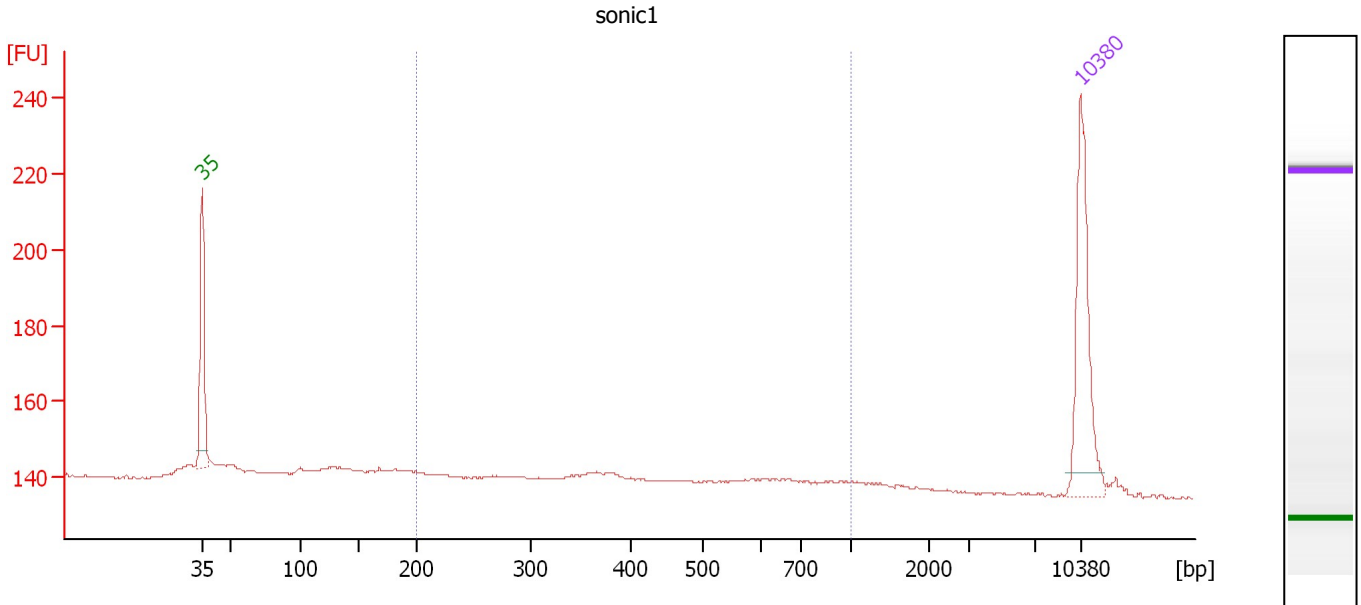
Peak table for Ladder

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:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sonic1

Number of peaks found: 0 Corr. Area 1: 113.5
 Noise: 0.2

Peak table for sample 1 : sonic1

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

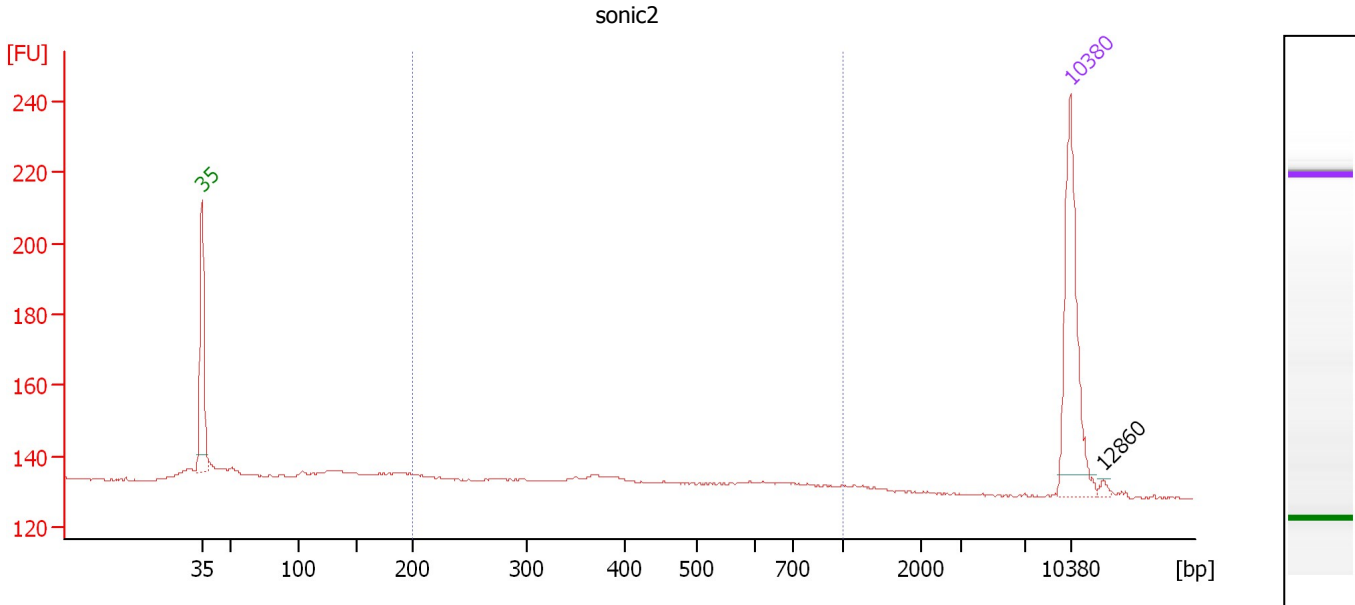
Region table for sample 1 : sonic1

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	460	495.8	117.37	113.5	44	42.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sonic2

Number of peaks found: 1 Corr. Area 1: 101.0
 Noise: 0.2

Peak table for sample 2 : sonic2

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
3	12,860	0.00	0.0	

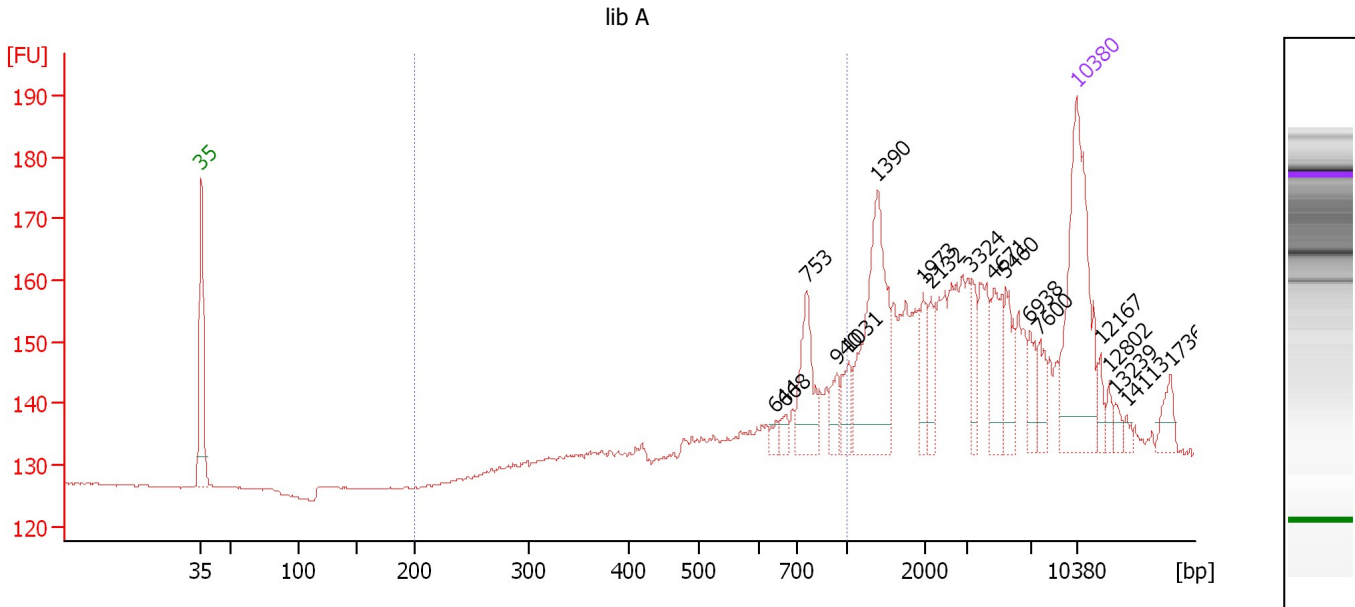
Region table for sample 2 : sonic2

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	445	415.5	96.31	101.0	44	42.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : lib A

Number of peaks found: 18 Corr. Area 1: 175.8
 Noise: 0.2

Peak table for sample 3 : lib A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	644	4.16	9.8	
3	668	5.74	13.0	
4	753	34.34	69.1	
5	940	9.88	15.9	
6	1,031	12.53	18.4	
7	1,390	76.12	83.0	
8	1,973	12.89	9.9	
9	2,132	11.90	8.5	
10	3,324	11.93	5.4	
11	4,671	21.52	7.0	
12	5,460	18.02	5.0	
13	6,938	10.86	2.4	
14	7,600	10.40	2.1	
15	10,380	75.00	10.9	Upper Marker
16	12,167	0.00	0.0	
17	12,802	0.00	0.0	
18	13,239	0.00	0.0	
19	14,113	0.00	0.0	
20	17,369	0.00	0.0	

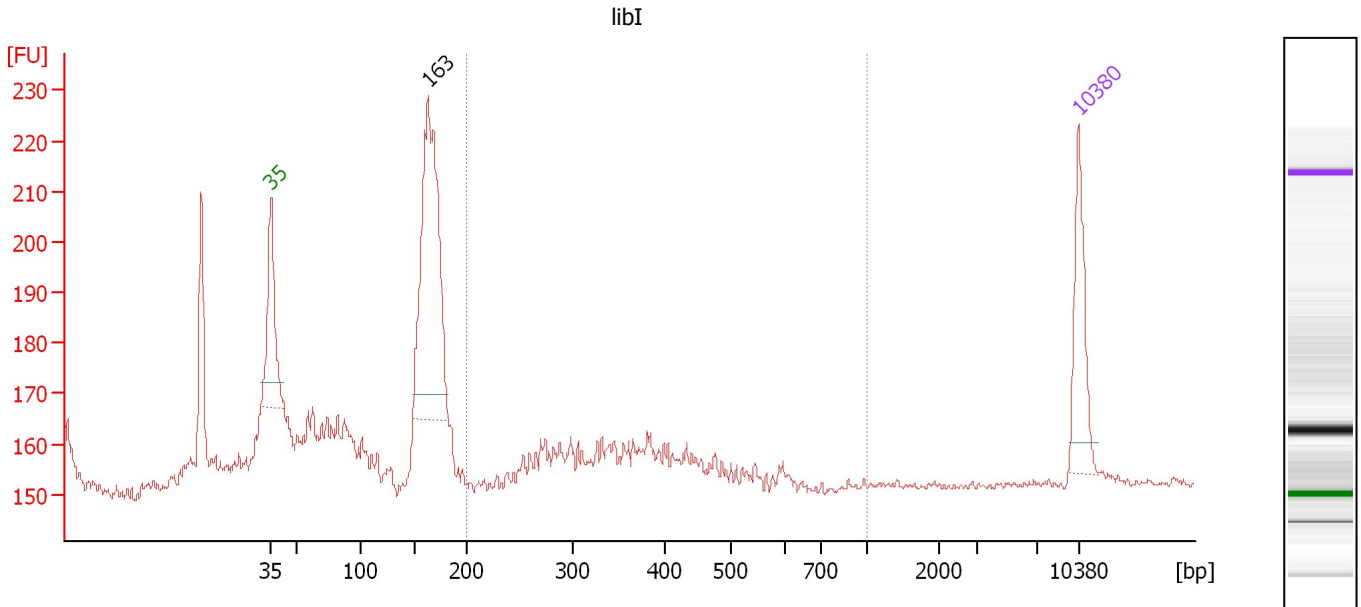
Region table for sample 3 : lib A

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	646	491.5	178.34	175.8	27	30.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : libI

Number of peaks found: 1 Corr. Area 1: 89.7
 Noise: 0.9

Peak table for sample 4 : libI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	163	435.43	4,040.7	
3	10,380	75.00	10.9	Upper Marker

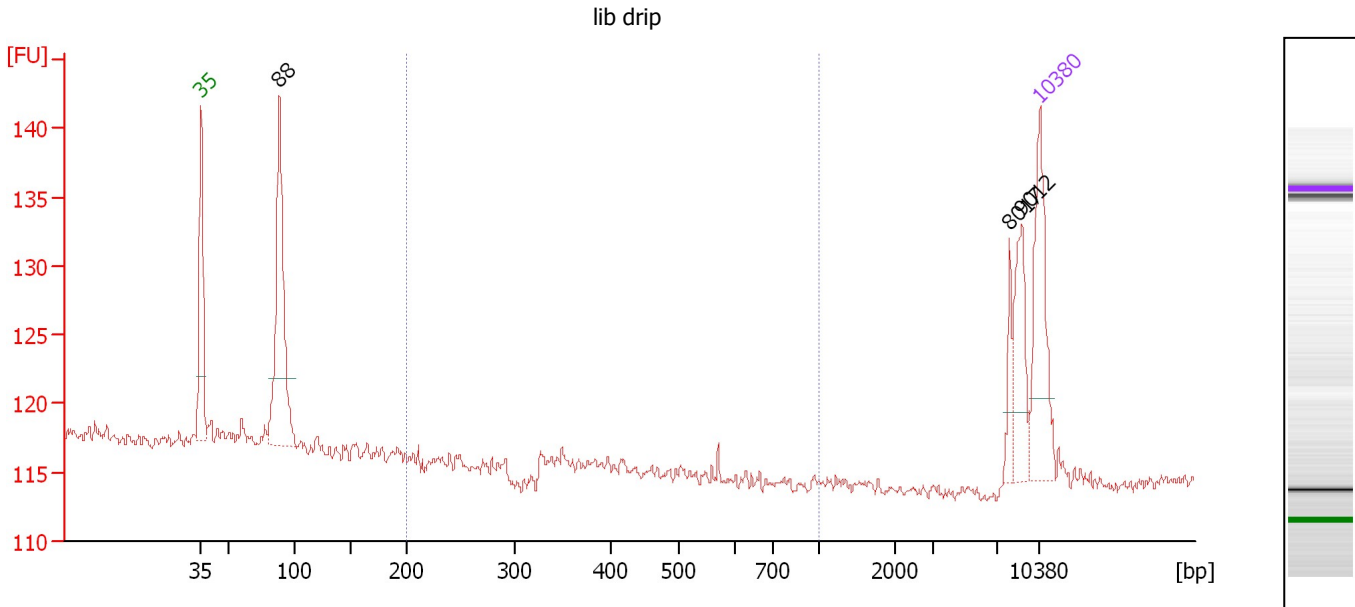
Region table for sample 4 : libI

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	767.2	174.39	89.7	18	20.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : lib drip

Number of peaks found: 3 Corr. Area 1: 0.4
 Noise: 0.4

Peak table for sample 5 : lib drip

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	88	229.84	3,936.8	
3	8,017	19.25	3.6	
4	9,012	48.78	8.2	
5	10,380	75.00	10.9	Upper Marker

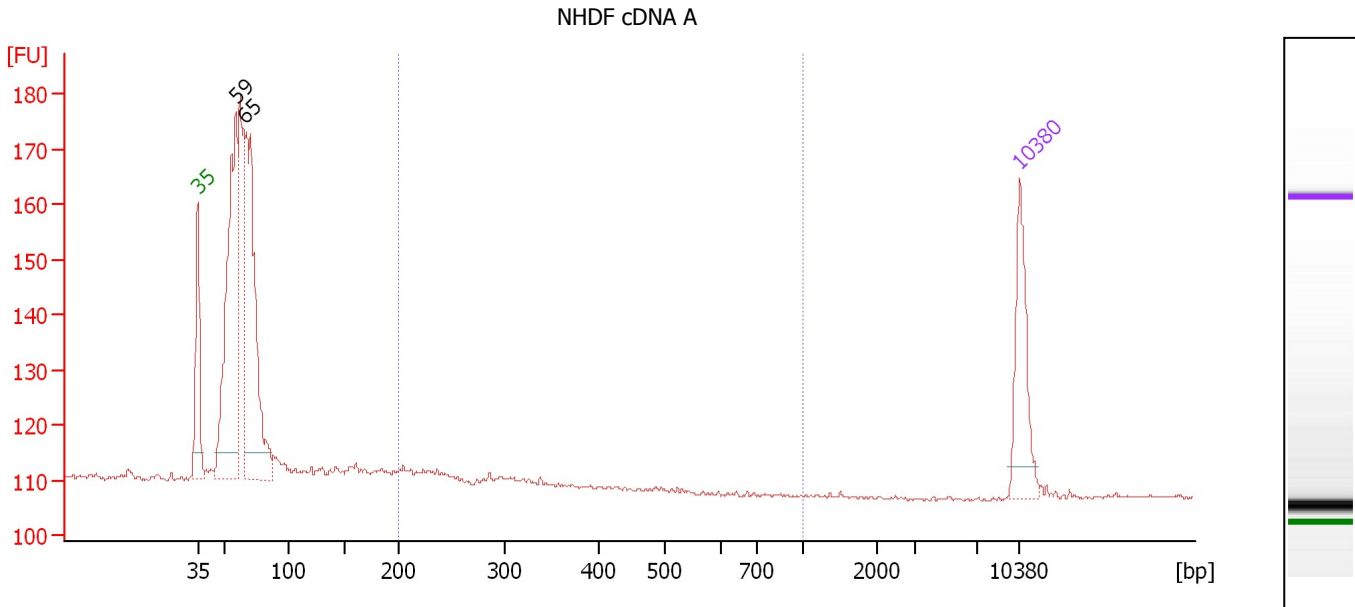
Region table for sample 5 : lib drip

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	453	6.8	1.75	0.4	1	26.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NHDF cDNA A

Number of peaks found: 2 Corr. Area 1: 26.9
 Noise: 0.3

Peak table for sample 6 : NHDF cDNA A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	59	441.93	11,424.1	
3	65	450.36	10,460.4	
4	10,380	75.00	10.9	Upper Marker

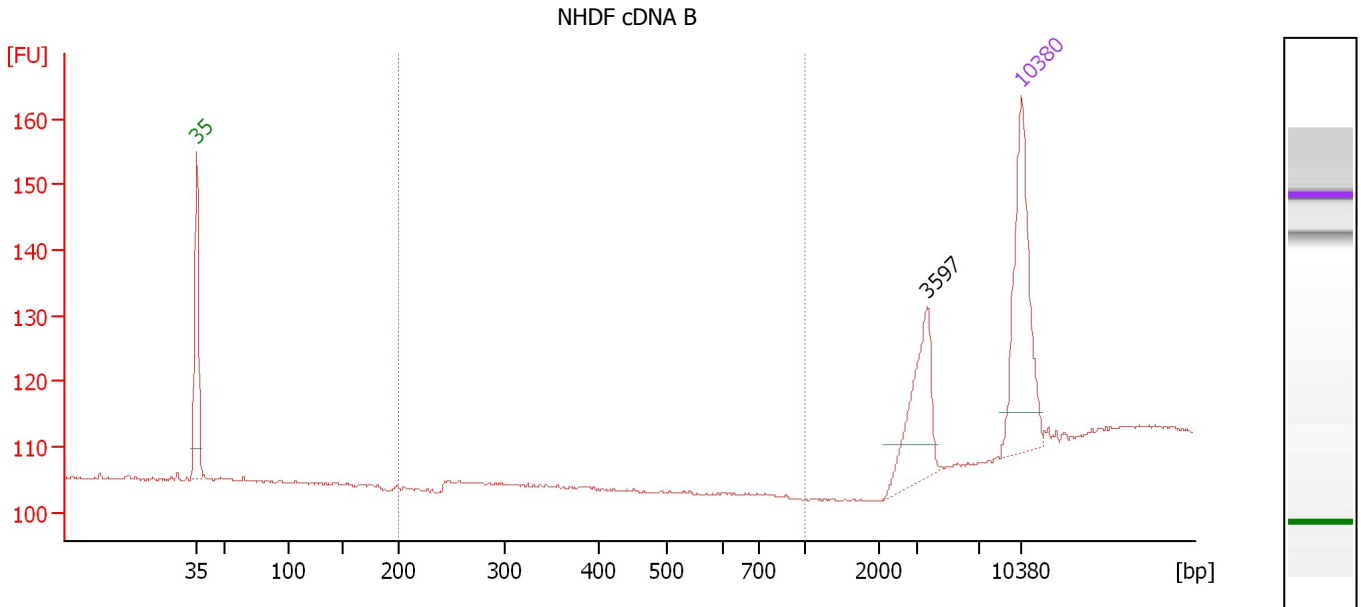
Region table for sample 6 : NHDF cDNA A

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	256	365.8	60.38	26.9	6	17.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NHDF cDNA B

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

Peak table for sample 7 : NHDF cDNA B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	3,597	54.11	22.8	
3	10,380	75.00	10.9	Upper Marker

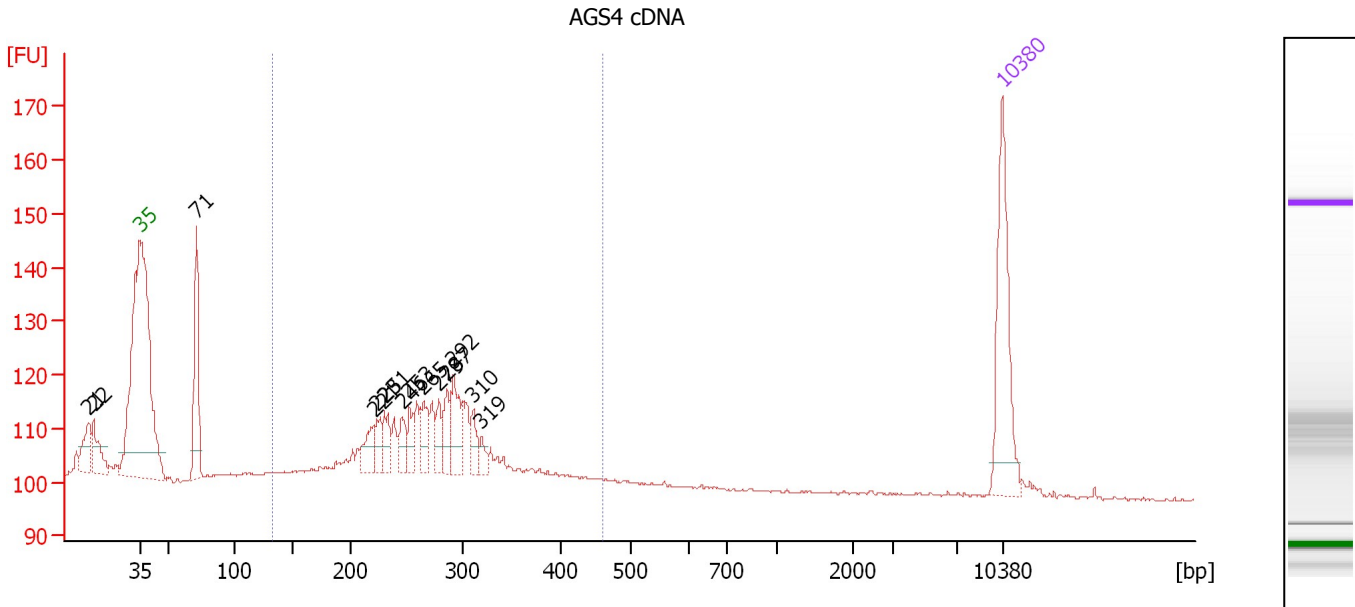
Region table for sample 7 : NHDF cDNA B

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:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AGS4 cDNA

Number of peaks found: 14 Corr. Area 1: 251.8
 Noise: 0.2

Peak table for sample 8 : AGS4 cDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	21	0.00	0.0	
2	22	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	71	97.57	2,070.4	
5	221	26.04	178.3	
6	225	18.87	127.4	
7	231	24.16	158.3	
8	246	19.11	117.5	
9	253	18.08	108.3	
10	265	25.32	144.6	
11	279	19.08	103.6	
12	287	24.26	128.2	
13	292	39.29	203.6	
14	310	17.16	83.8	
15	319	9.41	44.6	
16	10,380	75.00	10.9	Upper Marker

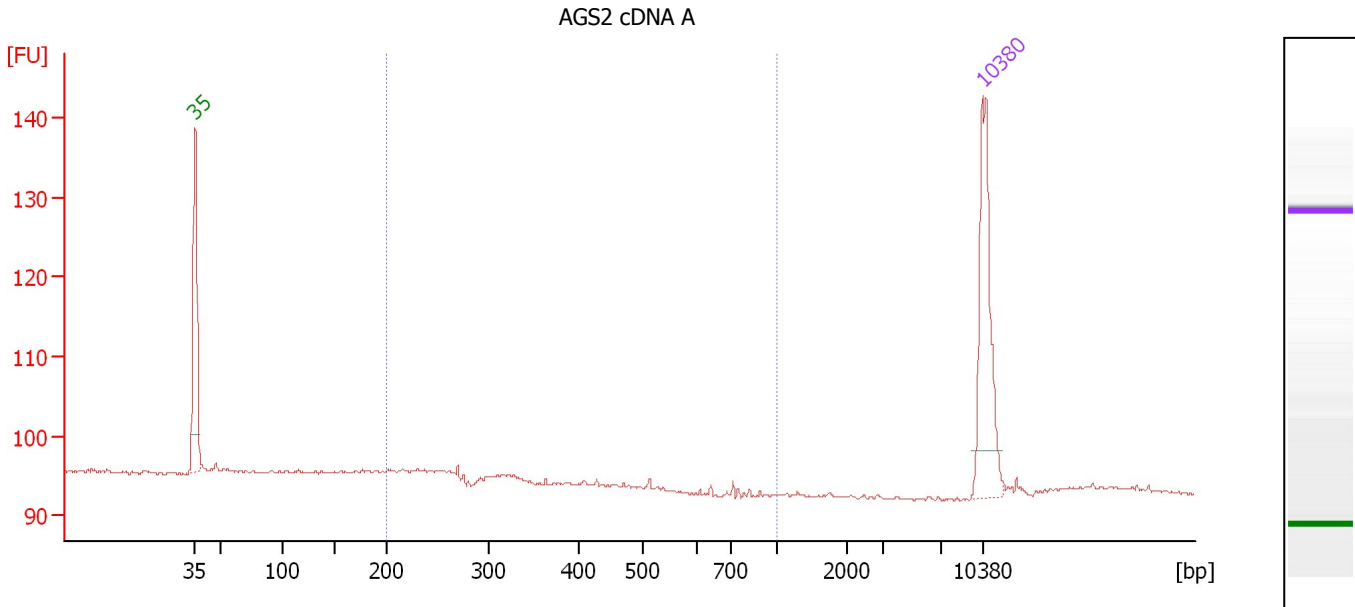
Region table for sample 8 : AGS4 cDNA

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
133	460	276	2,419.3	422.54	251.8	73	18.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AGS2 cDNA A

Number of peaks found: 0 Corr. Area 1: 13.4
 Noise: 0.2

Peak table for sample 9 : AGS2 cDNA 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

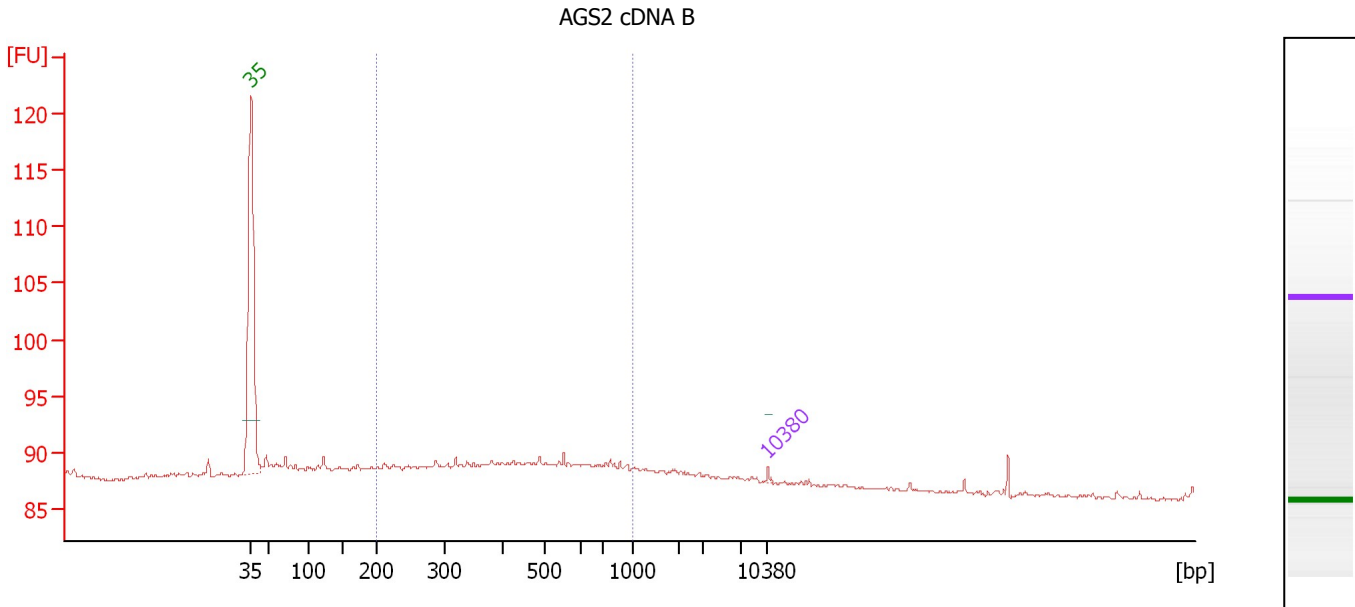
Region table for sample 9 : AGS2 cDNA A

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	259	198.4	32.71	13.4	32	21.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : AGS2 cDNA B

Height Threshold [FU] : 1

Overall Results for sample 10 : AGS2 cDNA B

Number of peaks found: 0 Corr. Area 1: 43.6
 Noise: 0.1

Peak table for sample 10 : AGS2 cDNA B

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

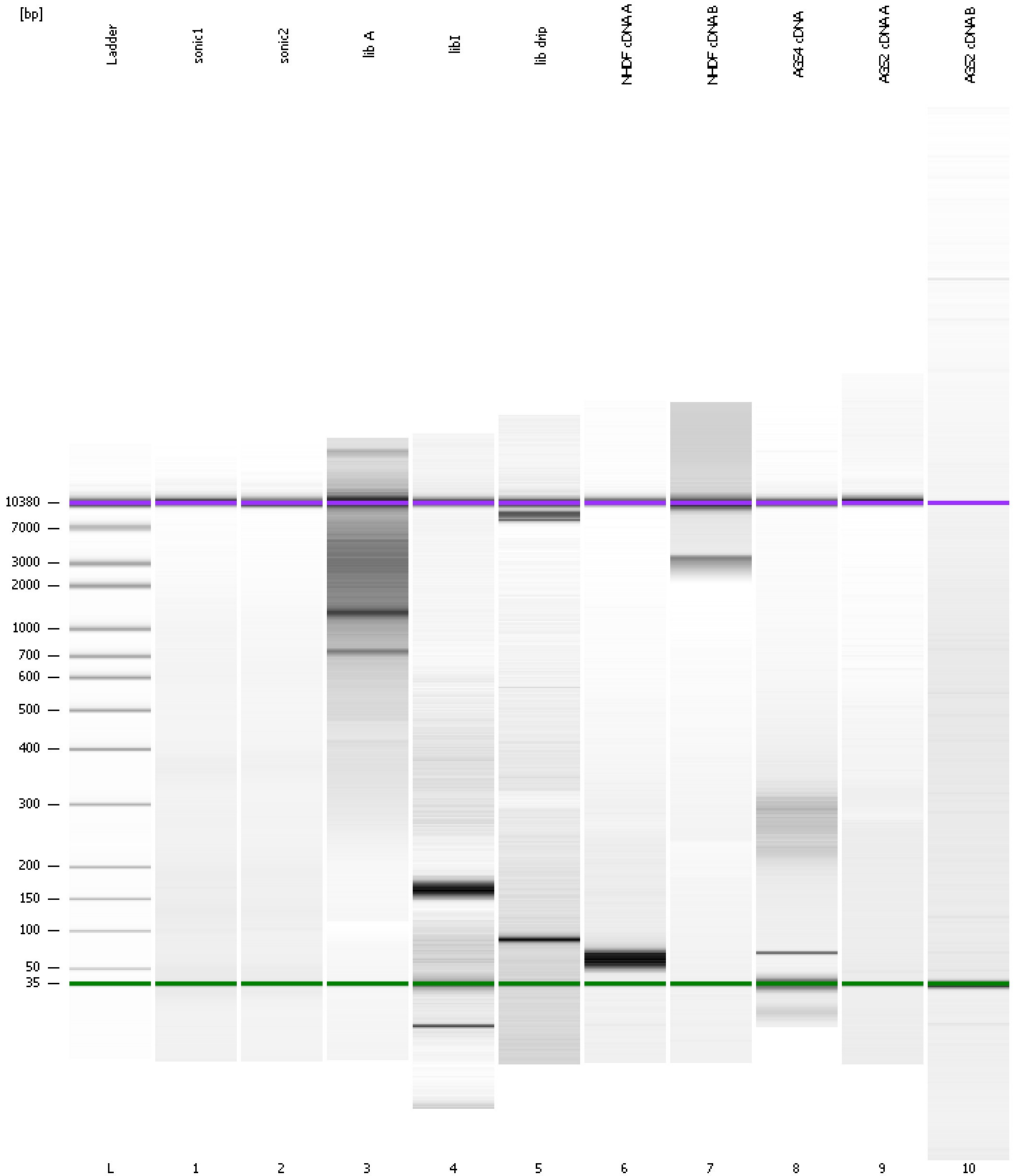
Region table for sample 10 : AGS2 cDNA B

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	478	47,457.0	12,041.75	43.6	58	40.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
Modified: 4/3/2013 11:13:05 AM

Gel Image

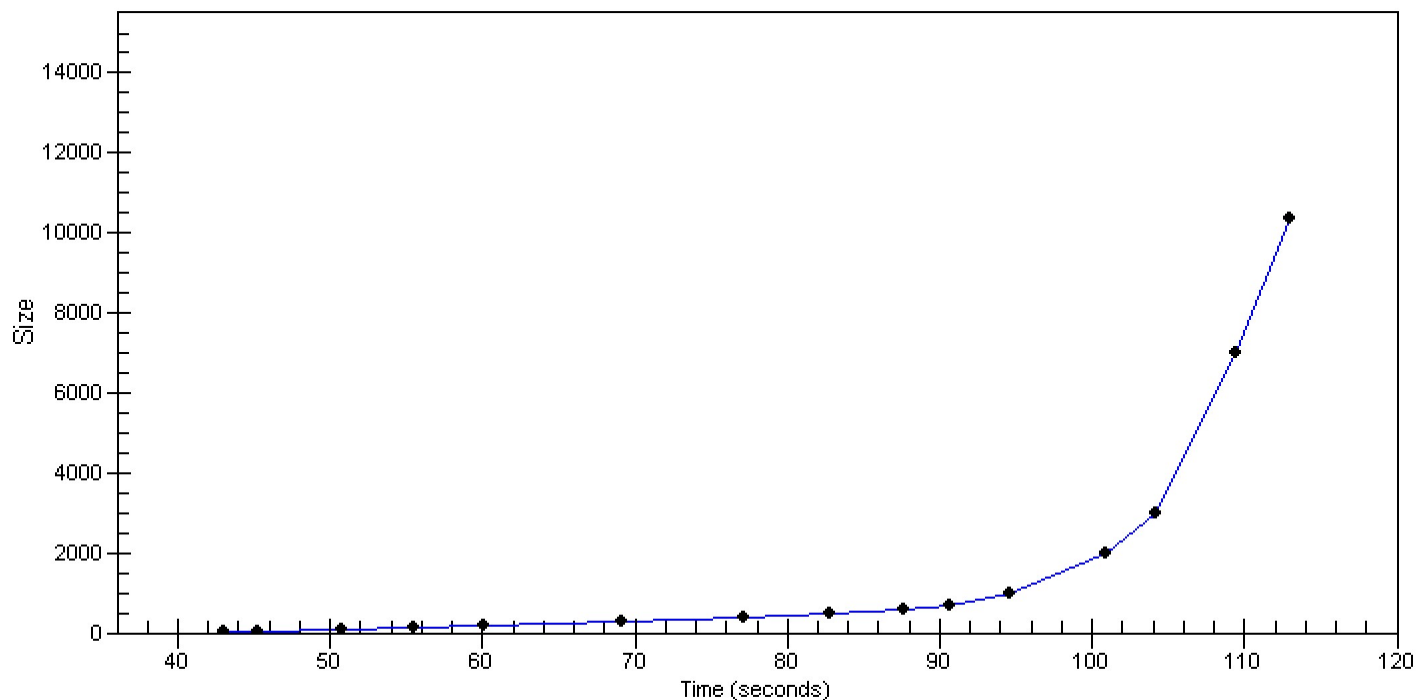


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
Modified: 4/3/2013 11:13:05 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...d Settings\Bioanalyzer\2013-04-03\2013-04-03_002_chedin.xad

Created: 4/3/2013 10:26:22 AM
 Modified: 4/3/2013 11:13:05 AM

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		4/3/2013 11:07:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-03\2013-04-03_002.xad)		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2013 10:26:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1