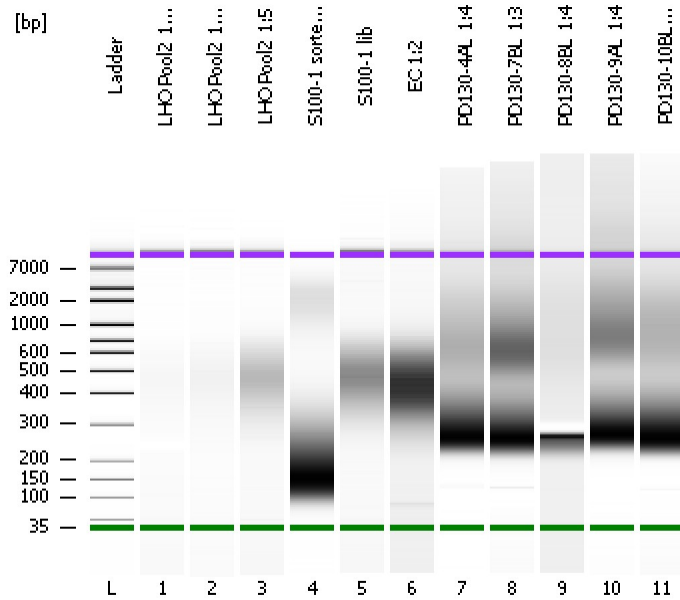


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 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

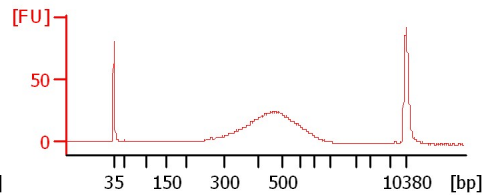
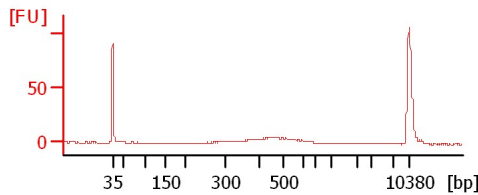
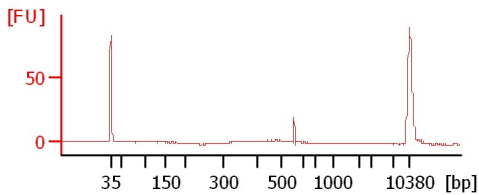
Chip Information:

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

LHO Pool2 1:4

LHO Pool2 1:5

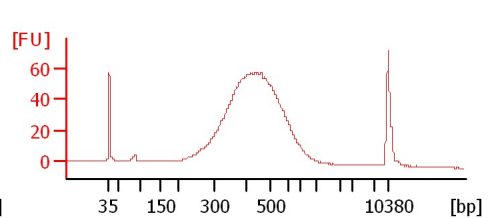
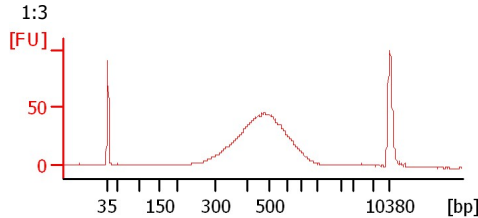
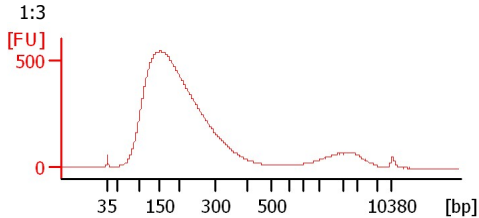
LHO Pool2 1:5



S100-1 sorted soni

S100-1 lib

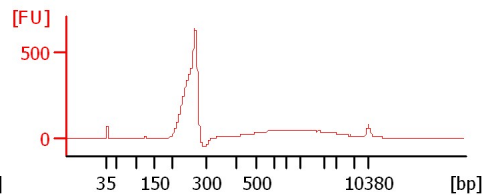
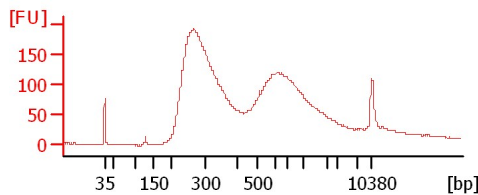
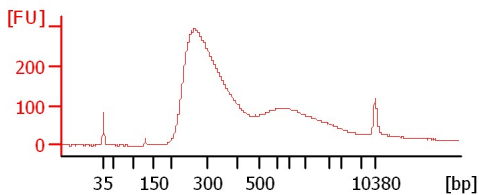
EC 1:2



PD130-4AL 1:4

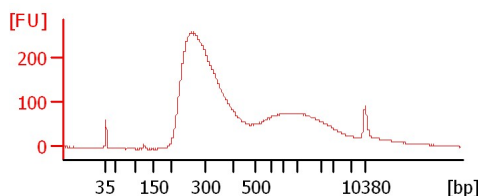
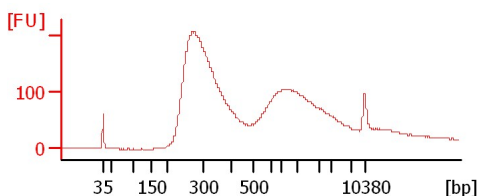
PD130-7BL 1:3

PD130-8BL 1:4



PD130-9AL 1:4

PD130-10BL 1:3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
LHO Pool2 1:40		<input type="checkbox"/>	✓			
LHO Pool2 1:20		<input type="checkbox"/>	✓			
LHO Pool2 1:5		<input type="checkbox"/>	✓			
S100-1 sorted soni	1:3	<input type="checkbox"/>	✓			
S100-1 lib	1:3	<input type="checkbox"/>	✓			
EC 1:2		<input type="checkbox"/>	✓			
PD130-4AL 1:4		<input type="checkbox"/>	✓			
PD130-7BL 1:3		<input type="checkbox"/>	✓			
PD130-8BL 1:4		<input type="checkbox"/>	✓			
PD130-9AL 1:4		<input type="checkbox"/>	✓			
PD130-10BL 1:3		<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\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 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

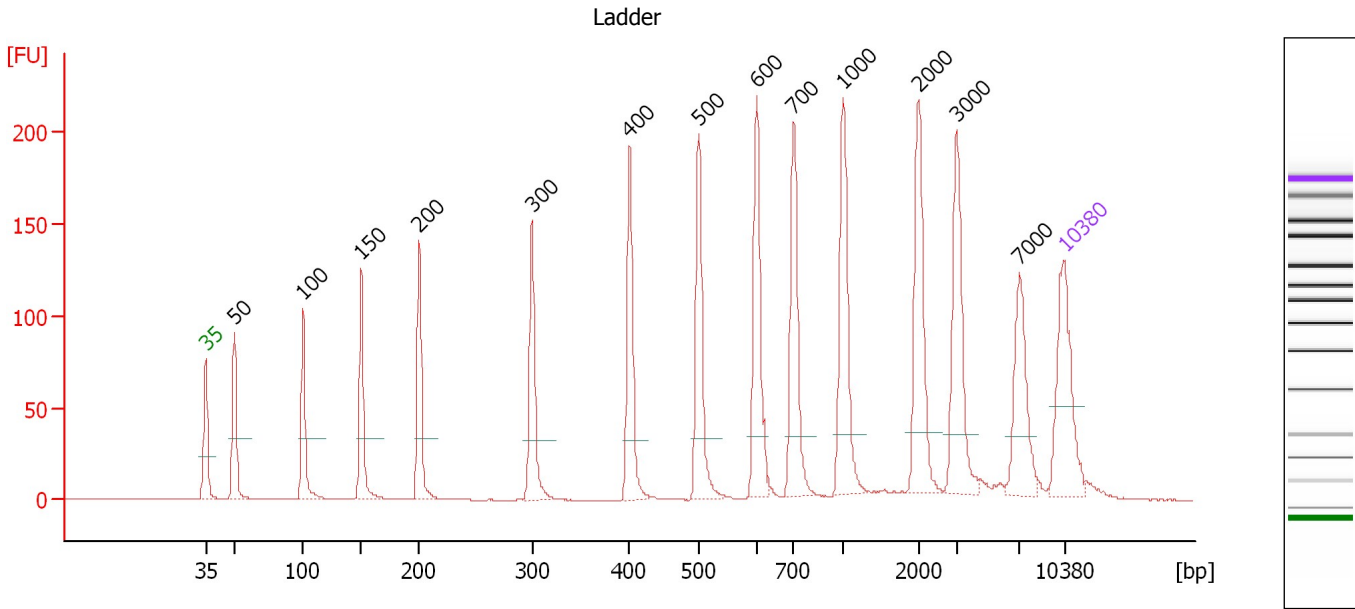
Ladder

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\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

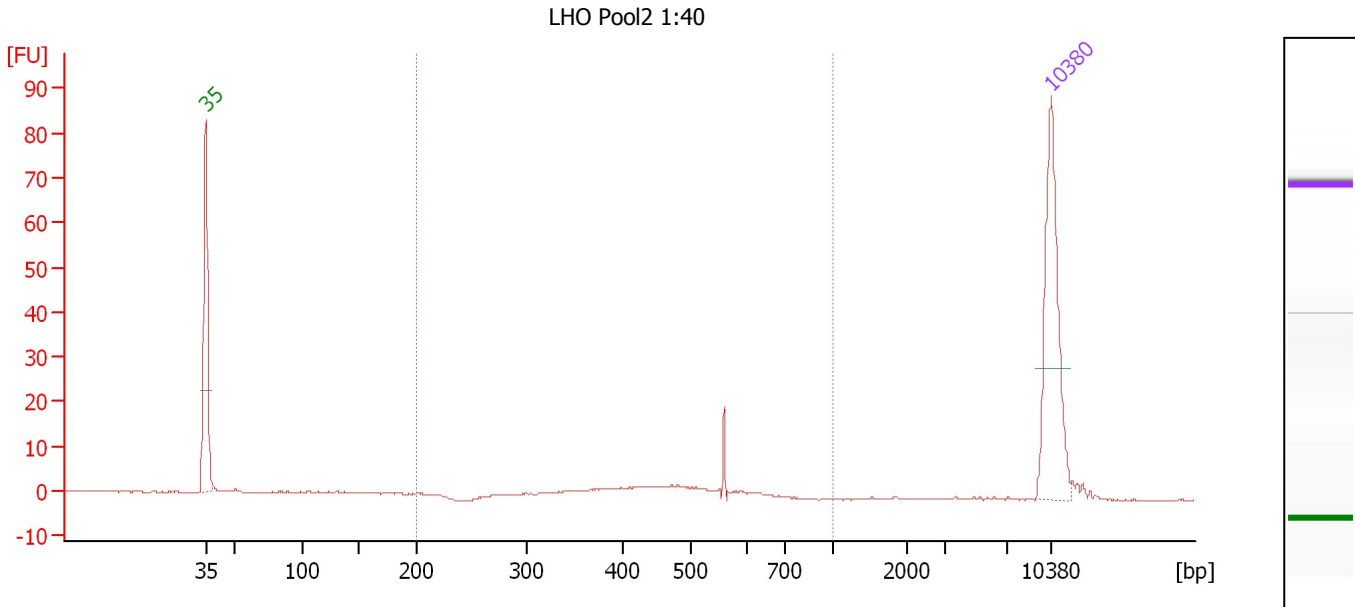
Peak table for Ladder

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\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : LHO Pool2 1:40

Number of peaks found: 0 Corr. Area 1: 36.6
 Noise: 0.2

Peak table for sample 1 : LHO Pool2 1:40

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

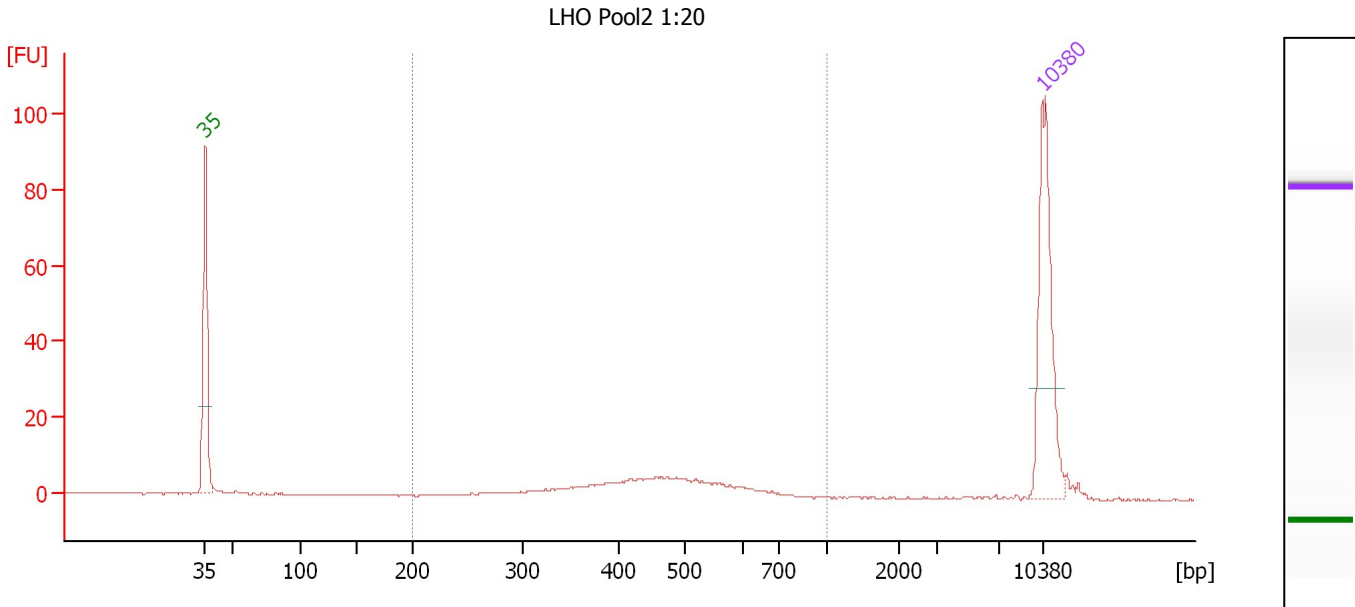
Region table for sample 1 : LHO Pool2 1:40

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	470	128.3	38.05	36.6	78	17.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : LHO Pool2 1:20

Number of peaks found: 0 Corr. Area 1: 93.8
 Noise: 0.1

Peak table for sample 2 : LHO Pool2 1:20

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

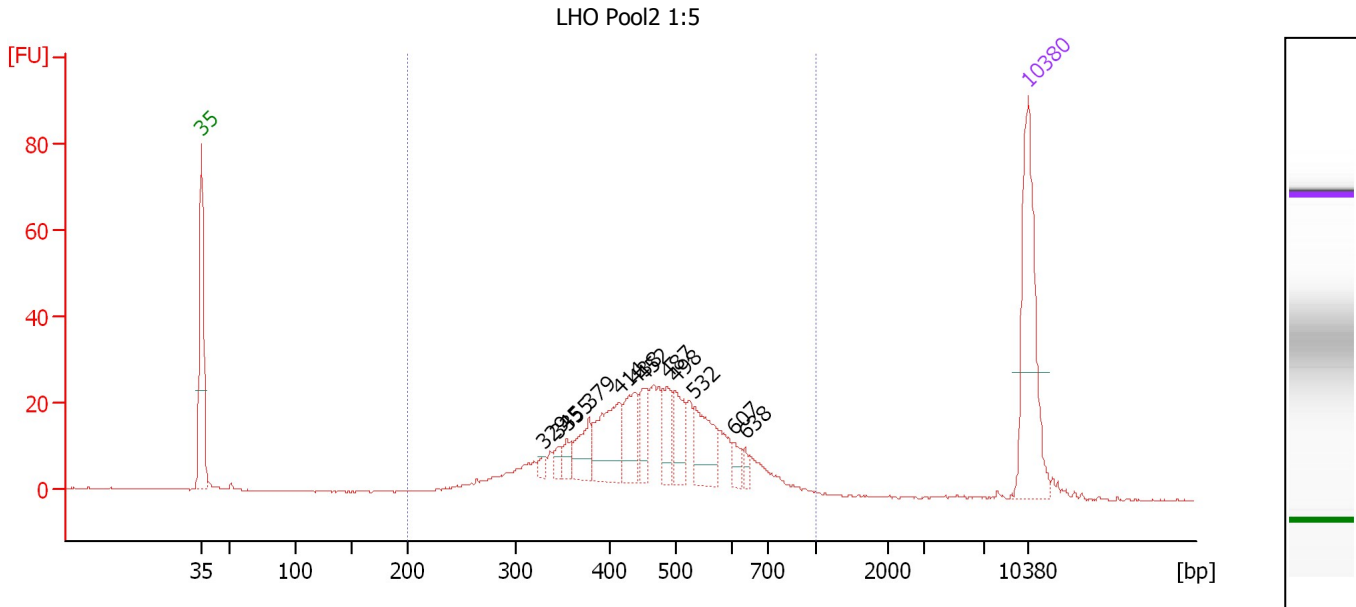
Region table for sample 2 : LHO Pool2 1:20

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	464	304.5	85.98	93.8	86	23.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : LHO Pool2 1:5

Number of peaks found: 12 Corr. Area 1: 474.5
 Noise: 0.1

Peak table for sample 3 : LHO Pool2 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	329	5.68	26.2	
3	345	6.60	29.0	
4	355	9.93	42.4	
5	379	28.05	112.2	
6	414	51.74	189.3	
7	438	33.41	115.6	
8	452	19.80	66.4	
9	487	23.39	72.8	
10	498	27.15	82.6	
11	532	38.61	109.9	
12	607	8.82	22.0	
13	638	5.22	12.4	
14	10,380	75.00	10.9	Upper Marker

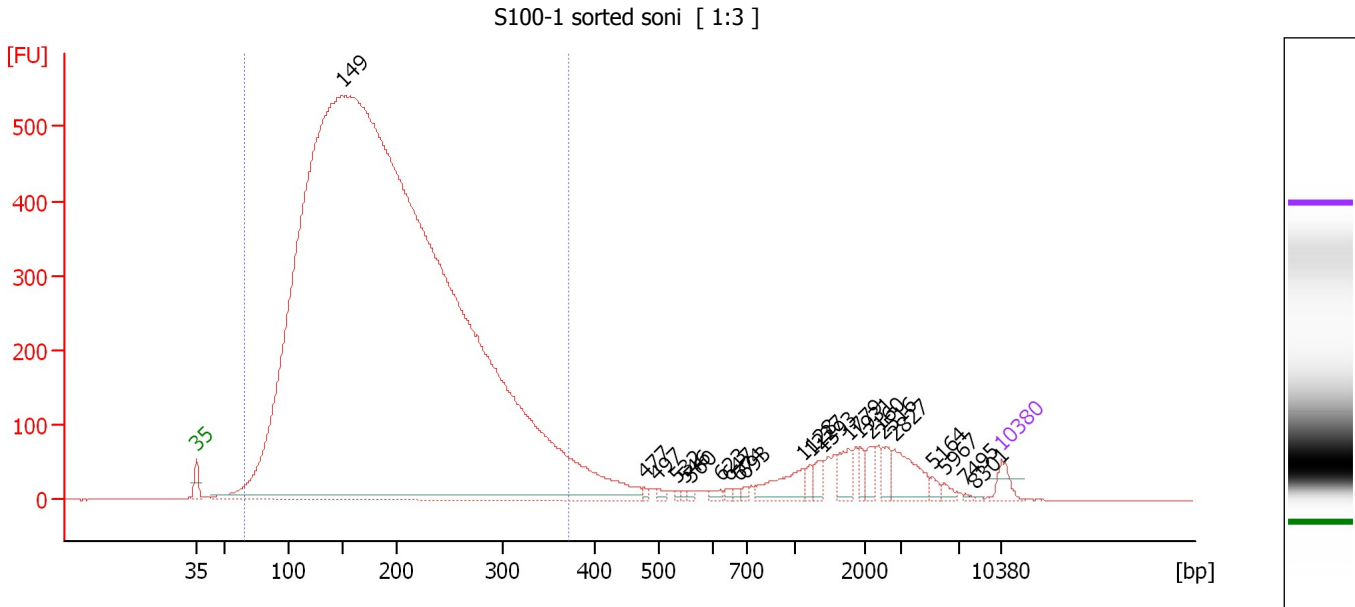
Region table for sample 3 : LHO Pool2 1:5

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	468	1,661.5	471.06	474.5	96	24.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : S100-1 sorted soni

Number of peaks found: 22 Corr. Area 1: 14,253.5
 Noise: 0.1

Peak table for sample 4 : S100-1 sorted soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	149	36,832.07	374,107.6	
3	477	22.07	70.1	
4	497	27.68	84.4	
5	532	14.52	41.4	
6	546	13.97	38.7	
7	560	13.96	37.8	
8	623	28.71	69.9	
9	647	18.76	43.9	
10	674	20.02	45.0	
11	693	19.13	41.9	
12	1,128	190.38	255.6	
13	1,227	40.11	49.5	
14	1,393	65.07	70.8	
15	1,779	116.57	99.3	
16	1,931	54.29	42.6	
17	2,160	74.93	52.6	
18	2,516	82.06	49.4	
19	2,827	212.44	113.8	
20	5,164	33.10	9.7	
21	5,967	29.13	7.4	
22	7,495	7.53	1.5	
23	8,301	4.53	0.8	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...

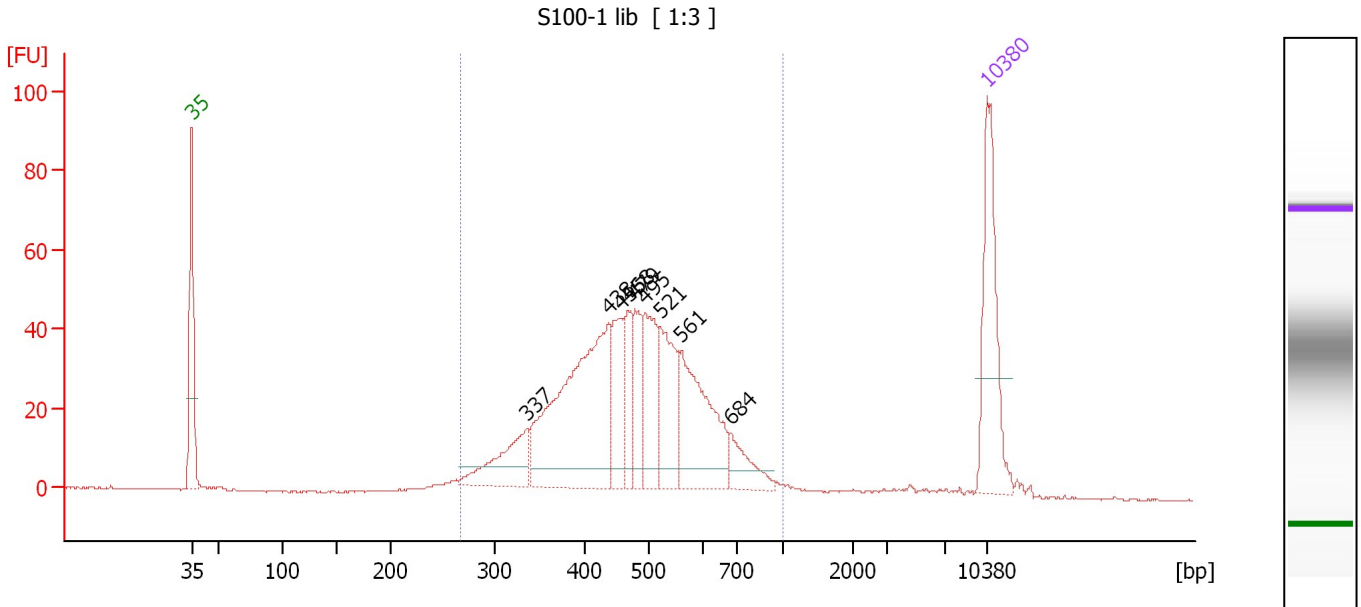
... Region table for sample 4 : S100-1 sorted soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
67	372	191	298,870.8	32,029.68	14,253.5	91	34.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : S100-1 lib

Number of peaks found: 9 Corr. Area 1: 849.7
 Noise: 0.2

Peak table for sample 5 : S100-1 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	60.69	273.1	
3	438	228.11	789.1	
4	455	54.06	179.8	
5	468	32.54	105.4	
6	479	41.46	131.2	
7	495	63.96	195.7	
8	521	70.76	205.7	
9	561	103.18	278.5	
10	684	27.53	61.0	
11	10,380	75.00	10.9	Upper Marker

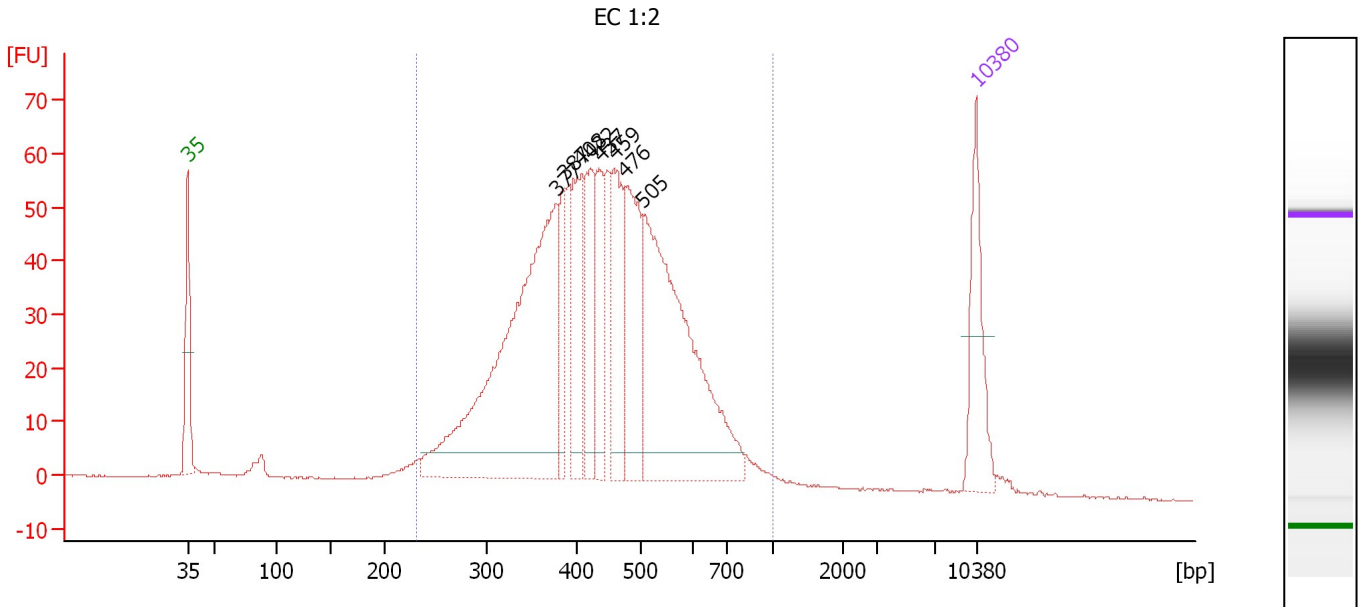
Region table for sample 5 : S100-1 lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
268	1,000	482	2,563.9	756.37	849.7	94	24.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EC 1:2

Number of peaks found: 8 Corr. Area 1: 1,273.8
 Noise: 0.2

Peak table for sample 6 : EC 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	377	542.73	2,178.5	
3	387	63.11	247.1	
4	408	117.94	438.4	
5	422	94.76	340.3	
6	437	79.10	274.3	
7	459	119.16	393.5	
8	476	140.65	447.4	
9	505	408.30	1,225.4	
10	10,380	75.00	10.9	Upper Marker

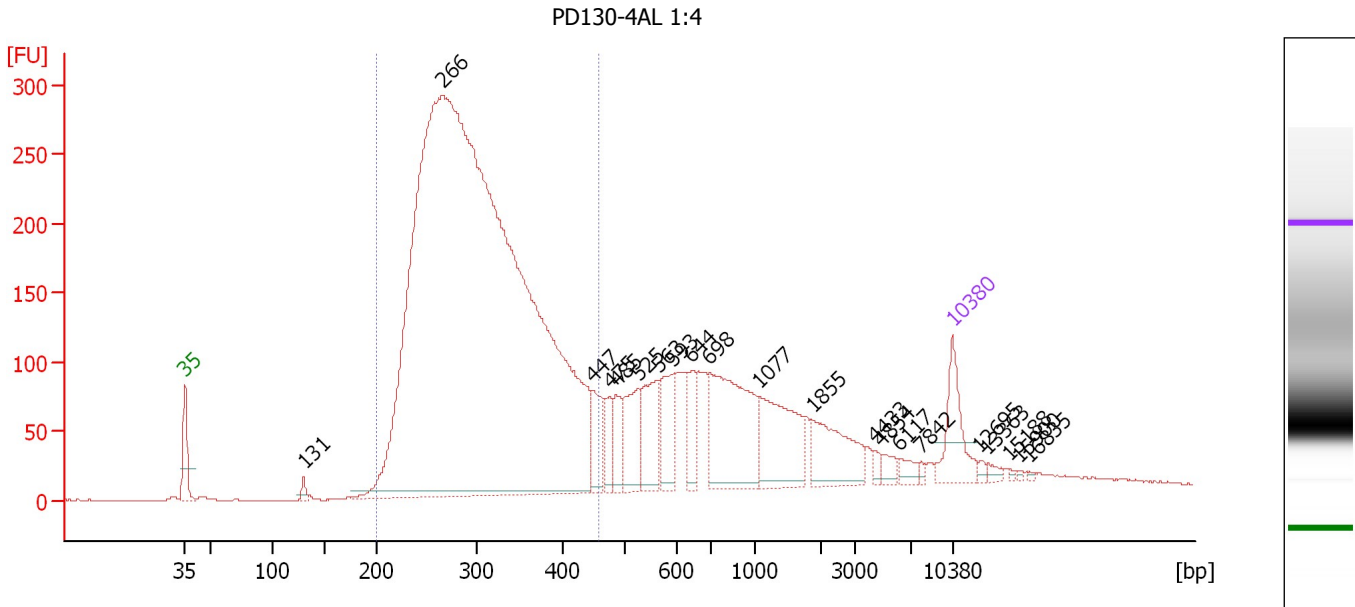
Region table for sample 6 : EC 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	1,000	448	6,758.0	1,830.79	1,273.8	94	25.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : PD130-4AL 1:4

Number of peaks found: 21 Corr. Area 1: 4,858.5
 Noise: 0.1

Peak table for sample 7 : PD130-4AL 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	15.93	184.9	
3	266	4,464.63	25,409.4	
4	447	75.30	255.1	
5	475	52.39	167.2	
6	485	55.34	172.8	
7	525	99.85	288.4	
8	563	106.24	285.9	
9	593	86.23	220.3	
10	644	56.02	131.9	
11	698	269.77	585.6	
12	1,077	162.91	229.2	
13	1,855	107.62	87.9	
14	4,433	8.12	2.8	
15	4,854	16.21	5.1	
16	6,117	16.29	4.0	
17	7,842	5.01	1.0	
18	10,380	75.00	10.9	Upper Marker
19	12,695	0.00	0.0	
20	13,363	0.00	0.0	
21	15,188	0.00	0.0	
22	15,900	0.00	0.0	
23	16,835	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...

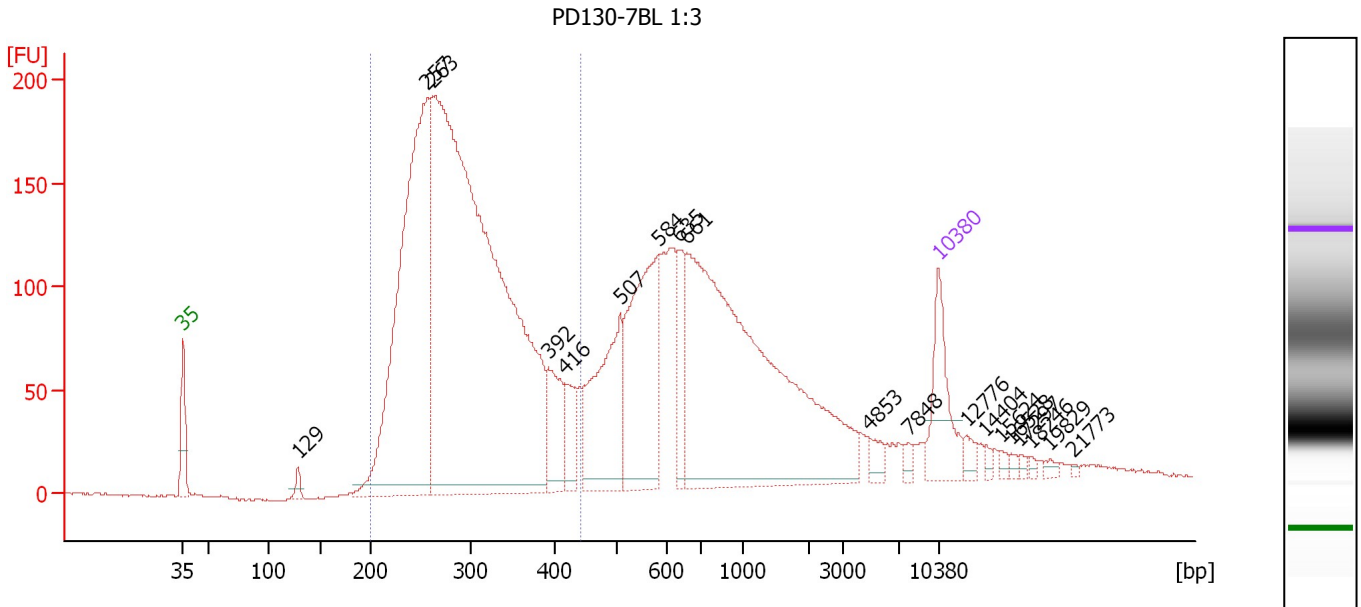
... Region table for sample 7 : PD130-4AL 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	457	307	21,222.9	4,116.26	4,858.5	70	18.6	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : PD130-7BL 1:3

Number of peaks found: 19 Corr. Area 1: 2,999.8
 Noise: 0.4

Peak table for sample 8 : PD130-7BL 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	13.94	164.1	
3	257	786.04	4,639.0	
4	263	1,748.50	10,086.3	
5	392	89.58	346.5	
6	416	53.59	195.4	
7	507	201.86	603.6	
8	584	253.71	658.7	
9	635	63.68	152.0	
10	661	770.88	1,767.7	
11	4,853	15.36	4.8	
12	7,848	7.14	1.4	
13	10,380	75.00	10.9	Upper Marker
14	12,776	0.00	0.0	
15	14,404	0.00	0.0	
16	15,624	0.00	0.0	
17	16,528	0.00	0.0	
18	17,297	0.00	0.0	
19	18,246	0.00	0.0	
20	19,829	0.00	0.0	
21	21,773	0.00	0.0	

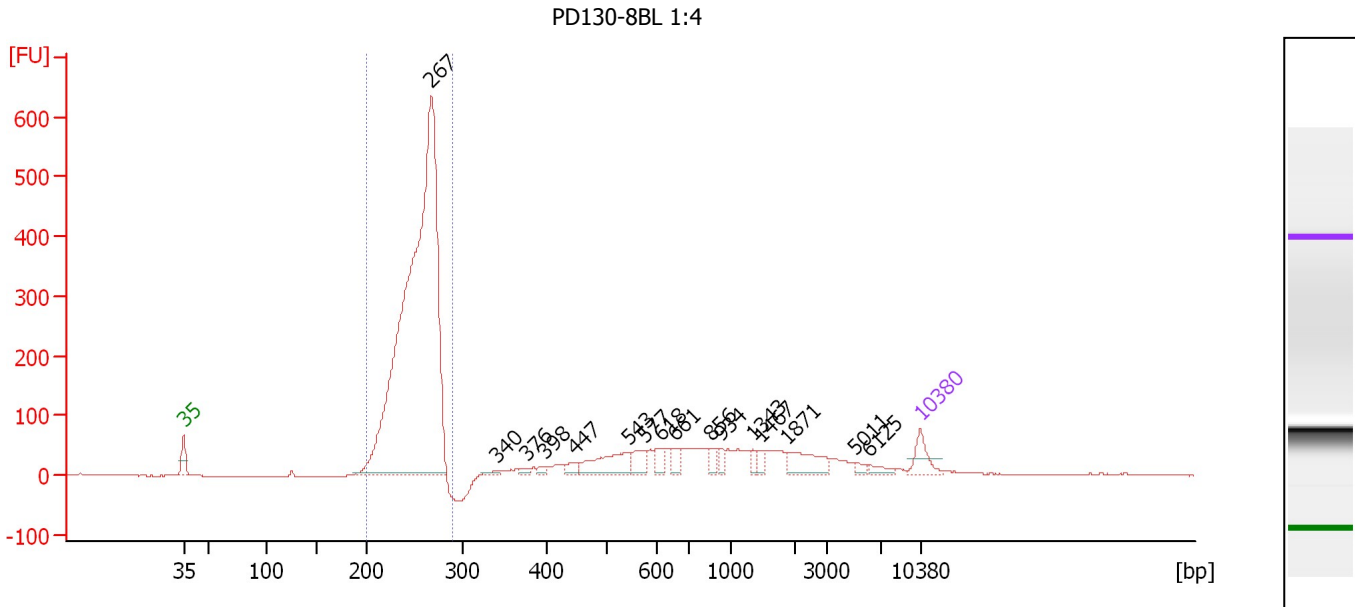
Region table for sample 8 : PD130-7BL 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	441	298	12,934.5	2,446.01	2,999.8	57	18.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : PD130-8BL 1:4

Number of peaks found: 16 Corr. Area 1: 3,069.6
 Noise: 0.8

Peak table for sample 9 : PD130-8BL 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	4,129.49	23,431.1	
3	340	15.94	71.0	
4	376	18.93	76.2	
5	398	22.02	83.8	
6	447	38.43	130.4	
7	543	190.03	529.8	
8	577	78.57	206.3	
9	618	52.64	129.2	
10	661	51.29	117.6	
11	856	33.99	60.2	
12	934	32.42	52.6	
13	1,343	26.58	30.0	
14	1,467	25.61	26.5	
15	1,871	121.01	98.0	
16	5,011	20.14	6.1	
17	6,125	26.82	6.6	
18	10,380	75.00	10.9	Upper Marker

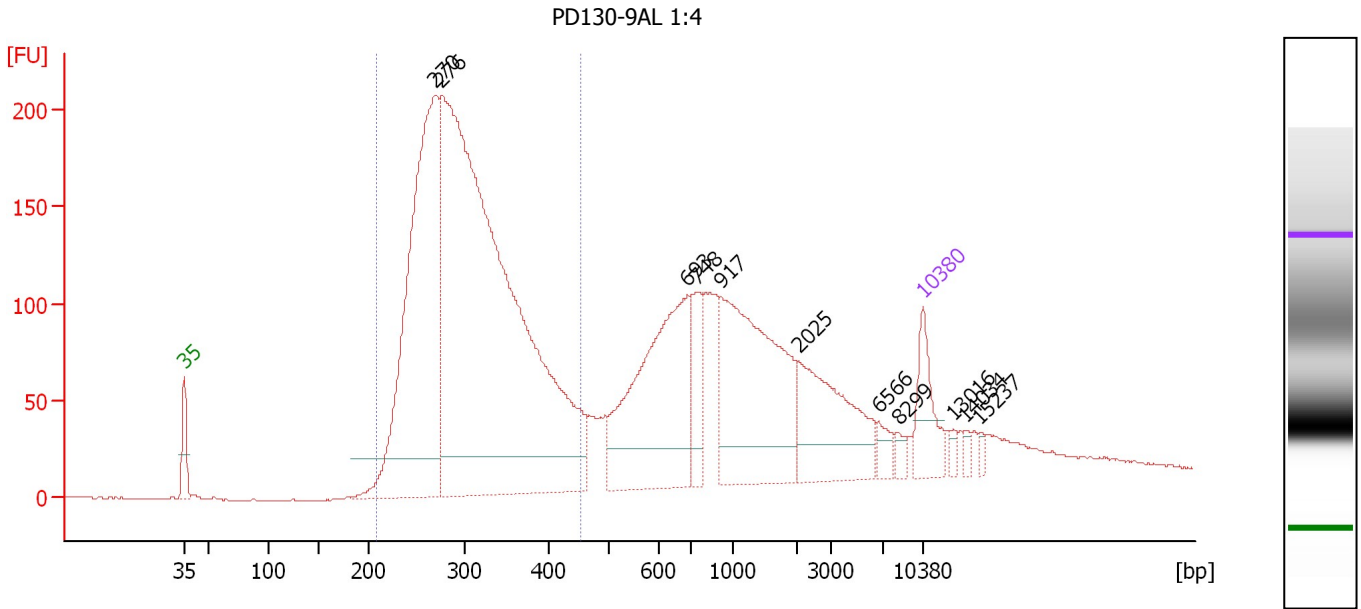
Region table for sample 9 : PD130-8BL 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	288	252	25,731.3	4,272.35	3,069.6	70	7.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : PD130-9AL 1:4

Height Threshold [FU] : 20

Overall Results for sample 10 : PD130-9AL 1:4

Number of peaks found: 11 Corr. Area 1: 3,033.9
 Noise: 0.3

Peak table for sample 10 : PD130-9AL 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	999.14	5,615.1	
3	276	2,204.18	12,115.0	
4	693	465.36	1,017.6	
5	748	101.35	205.3	
6	917	445.63	736.6	
7	2,025	207.75	155.4	
8	6,566	23.32	5.4	
9	8,299	13.35	2.4	
10	10,380	75.00	10.9	Upper Marker
11	13,016	0.00	0.0	
12	14,034	0.00	0.0	
13	15,237	0.00	0.0	

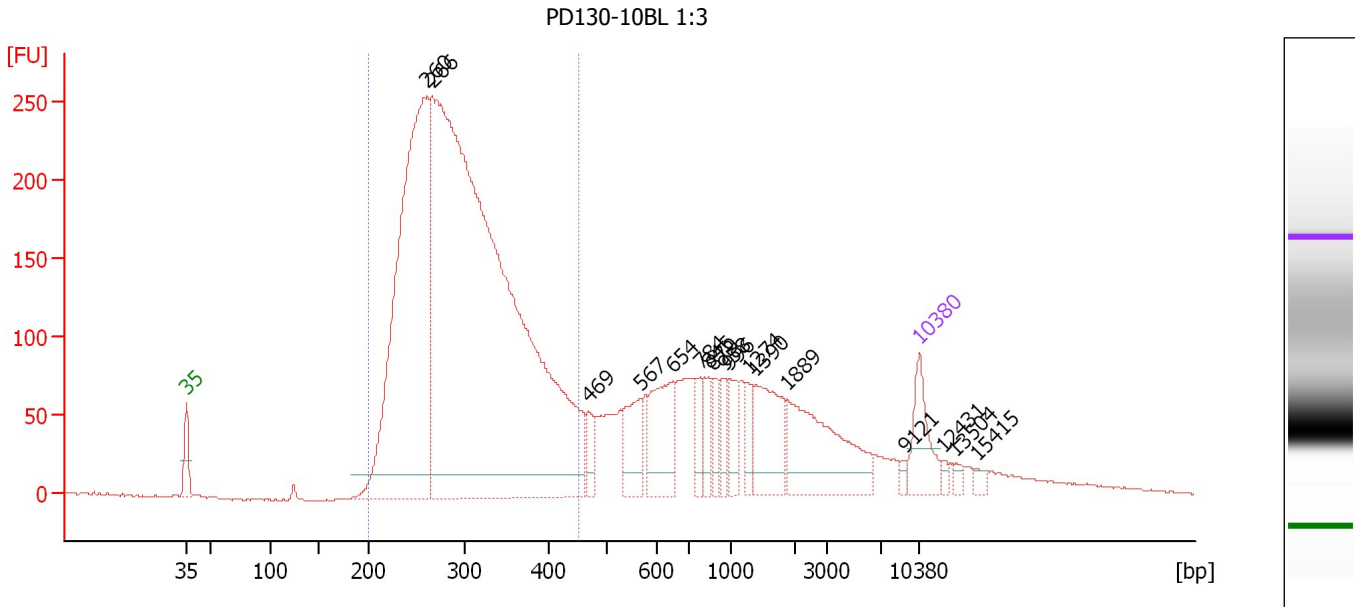
Region table for sample 10 : PD130-9AL 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
208	454	308	14,431.5	2,829.83	3,033.9	59	17.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : PD130-10BL 1:3

Height Threshold [FU] : 15

Overall Results for sample 11 : PD130-10BL 1:3

Number of peaks found: 17 Corr. Area 1: 4,181.2
 Noise: 0.8

Peak table for sample 11 : PD130-10BL 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	1,279.29	7,454.8	
3	266	3,086.33	17,571.8	
4	469	48.33	156.3	
5	567	98.34	262.6	
6	654	156.02	361.7	
7	784	46.49	89.8	
8	845	44.95	80.6	
9	879	37.94	65.4	
10	958	38.99	61.7	
11	996	53.90	82.0	
12	1,274	34.61	41.2	
13	1,390	134.57	146.6	
14	1,889	211.60	169.7	
15	9,121	7.58	1.3	
16	10,380	75.00	10.9	Upper Marker
17	12,431	0.00	0.0	
18	13,504	0.00	0.0	
19	15,415	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 PM

Electropherogram Summary Continued ...

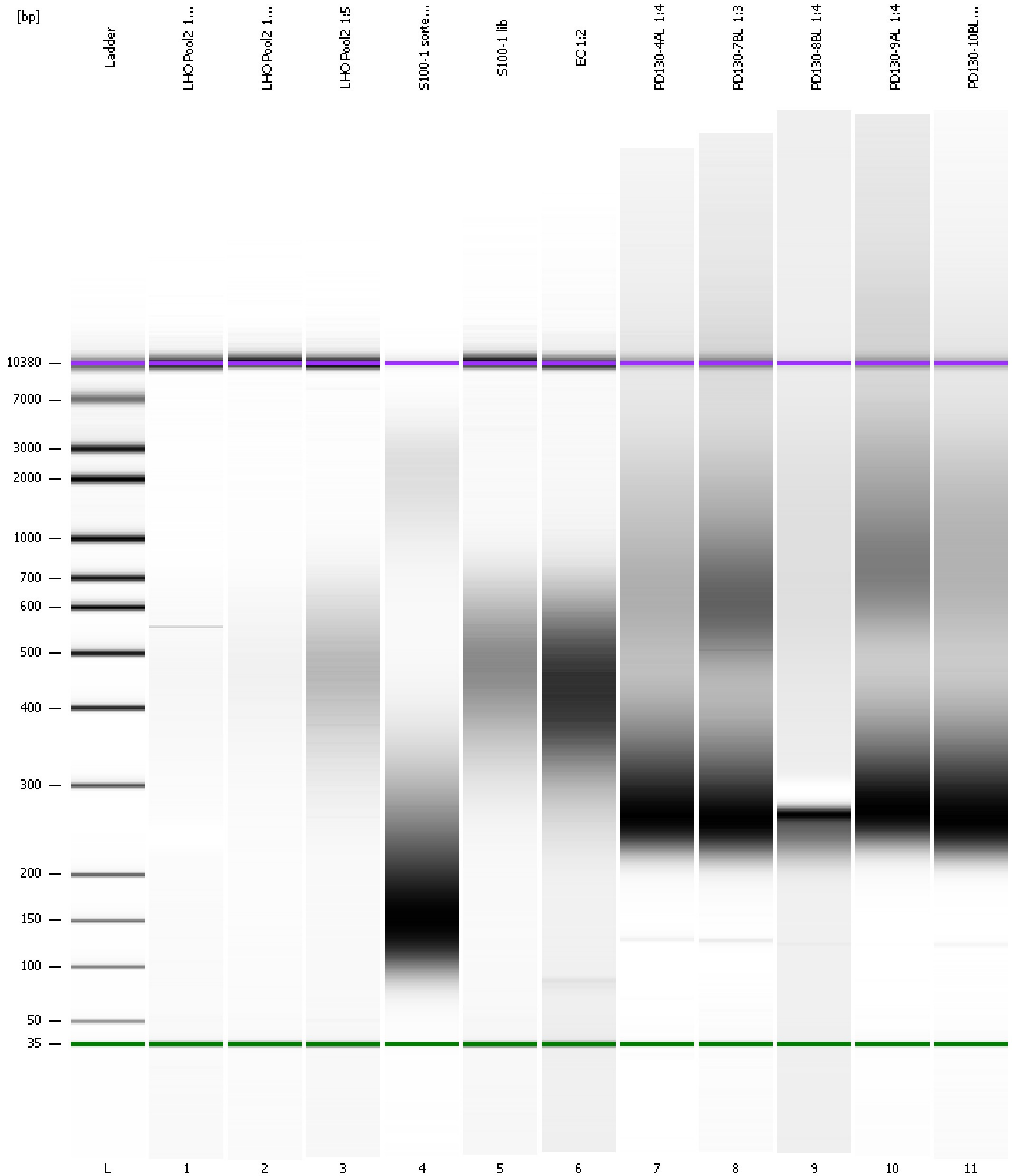
... Region table for sample 11 : **PD130-10BL 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	452	302	20,363.8	3,892.08	4,181.2	69	18.5	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
Modified: 7/23/2013 12:05:08 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad

Created: 7/23/2013 10:00:57 AM
 Modified: 7/23/2013 12:05:08 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		7/23/2013 10:42:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-23\2013-07-23_001.xad)		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/23/2013 10:01:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1