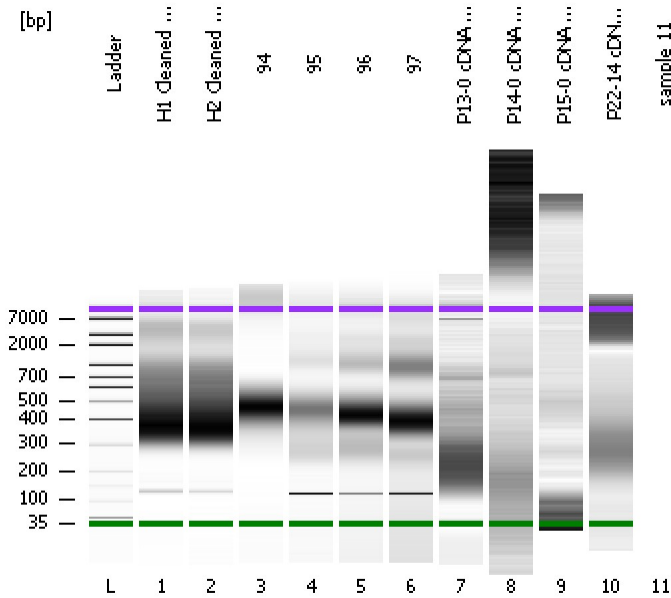


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
Modified: 11/1/2013 10:10:34 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

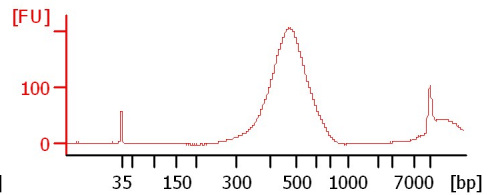
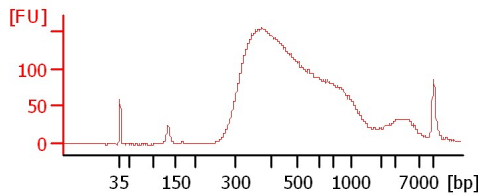
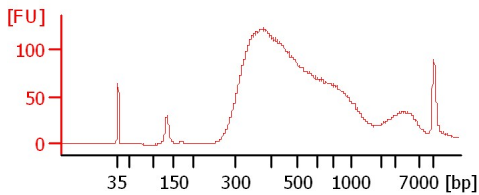
Chip Information:

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

H1 Cleaned 1:2

H2 Cleaned 1:2

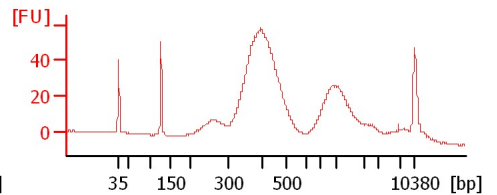
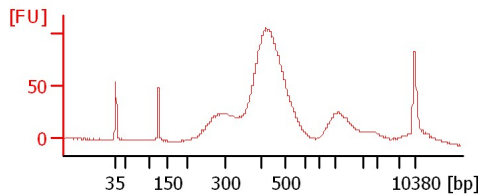
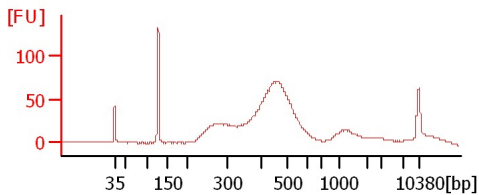
94



95

96

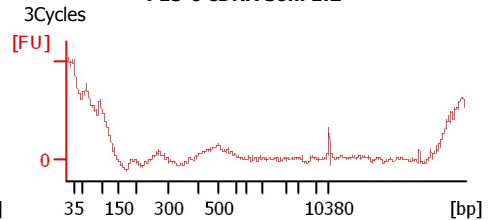
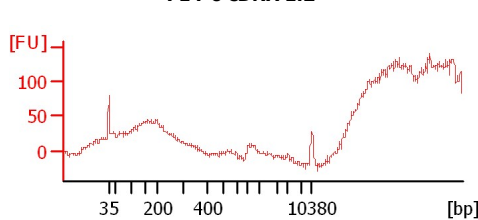
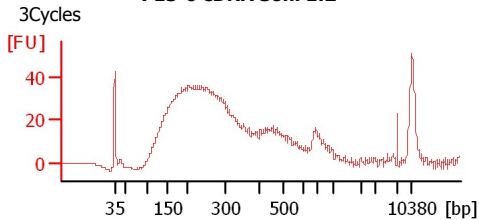
97



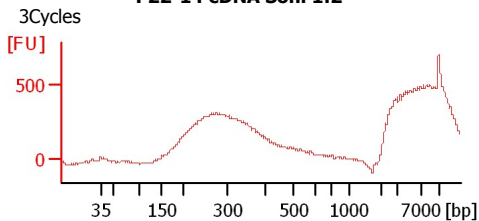
P13-0 cDNA Soni 1:2

P14-0 cDNA 1:2

P15-0 cDNA Soni 1:2



P22-14 cDNA Soni 1:2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H1 Cleaned 1:2		<input type="checkbox"/>	✓			
H2 Cleaned 1:2		<input type="checkbox"/>	✓			
94		<input type="checkbox"/>	✓			
95		<input type="checkbox"/>	✓			
96		<input type="checkbox"/>	✓			
97		<input type="checkbox"/>	✓			
P13-0 cDNA Soni 1:2	3Cycles	<input type="checkbox"/>	✓			
P14-0 cDNA 1:2		<input type="checkbox"/>	✓			
P15-0 cDNA Soni 1:2	3Cycles	<input type="checkbox"/>	✓			
P22-14 cDNA Soni 1:2	3Cycles	<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\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
Modified: 11/1/2013 10:10:34 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

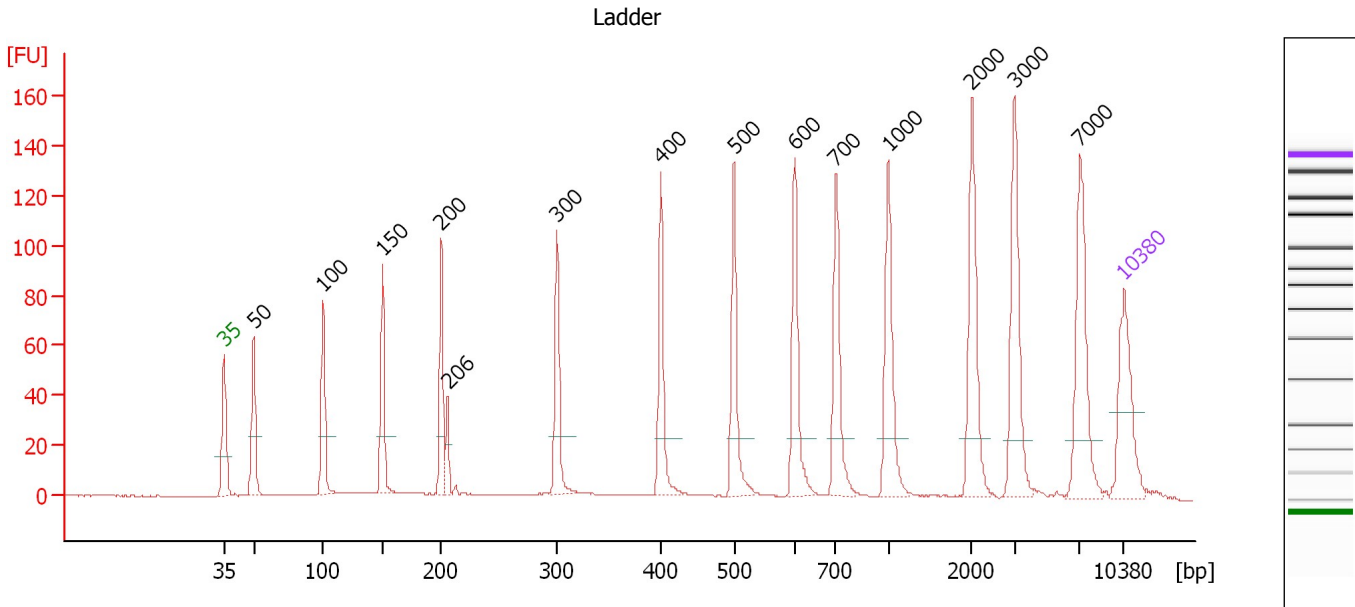
Ladder

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:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

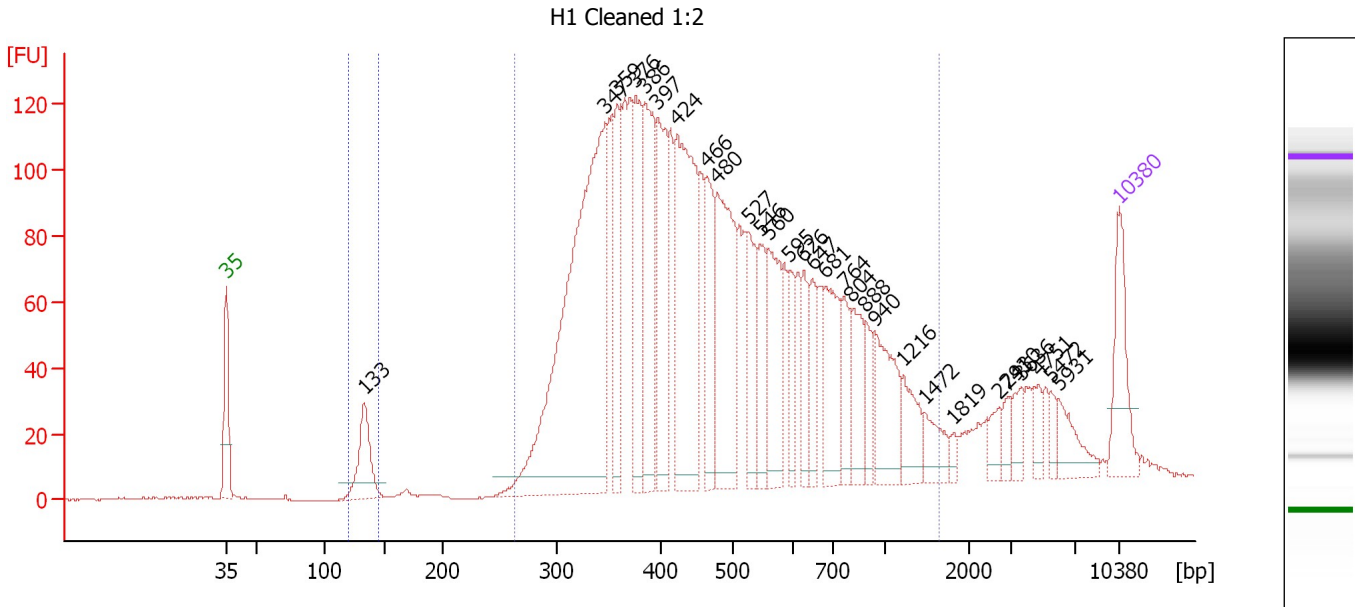
Peak table for Ladder

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	206	0.00	0.0	
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H1 Cleaned 1:2

Number of peaks found: 29 Corr. Area 1: 2,950.7
 Noise: 0.2 Corr. Area 2: 51.5

Peak table for sample 1 : H1 Cleaned 1:2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	112.46	1,276.5	
3	347	801.83	3,501.8	
4	359	132.29	558.6	
5	376	176.19	709.2	
6	386	212.09	833.2	
7	397	181.35	692.0	
8	424	342.52	1,224.6	
9	466	117.01	380.7	
10	480	242.71	766.6	
11	527	103.95	299.0	
12	546	74.51	206.7	
13	560	126.66	343.0	
14	595	54.09	137.8	
15	626	52.36	126.6	
16	647	51.03	119.4	
17	681	114.47	254.5	
18	764	50.53	100.2	
19	804	74.85	141.0	
20	888	38.10	65.0	
21	940	102.07	164.5	
22	1,216	52.87	65.9	
23	1,472	39.36	40.5	
24	1,819	9.20	7.7	
25	2,741	19.93	11.0	
26	2,930	18.46	9.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad



Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : H1 Cleaned 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,636	23.52	9.8	
28	4,751	22.07	7.0	
29	5,472	13.07	3.6	
30	5,931	41.48	10.6	
31	 10,380	75.00	10.9	Upper Marker

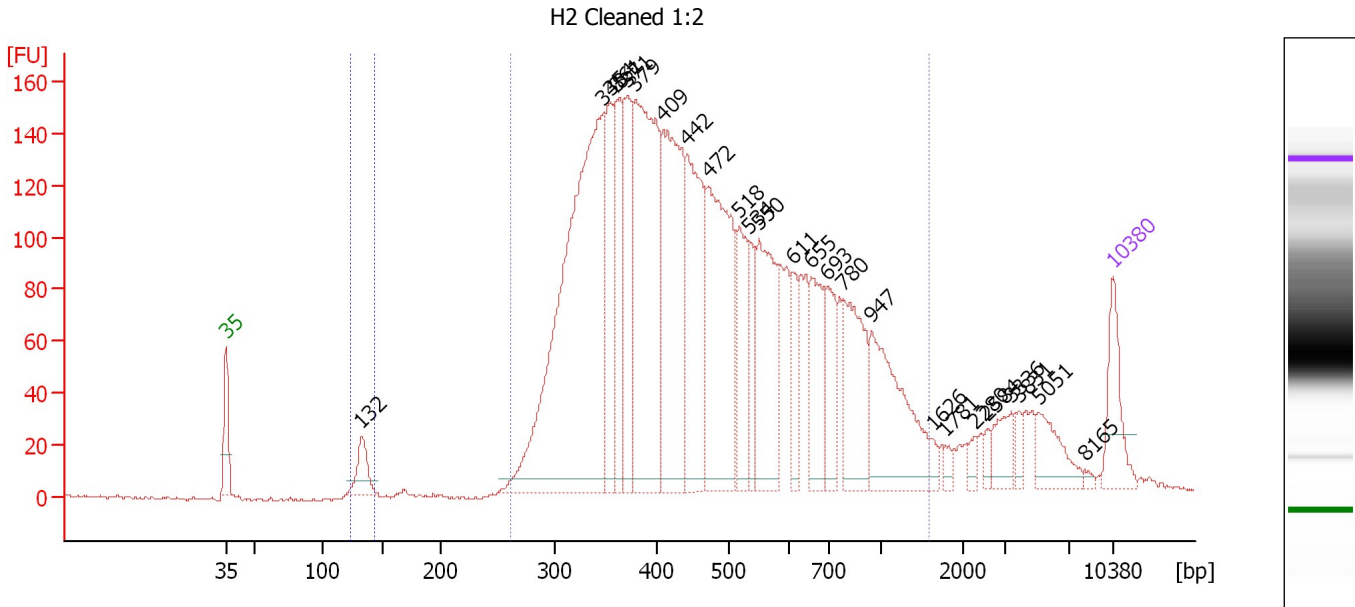
Region table for sample 1 : H1 Cleaned 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
120	146	134	1,066.8	94.21	51.5	2	3.3	
263	1,659	520	13,275.9	3,826.28	2,950.7	91	45.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : H2 Cleaned 1:2

Number of peaks found: 25 Corr. Area 1: 3,929.4
 Noise: 0.6 Corr. Area 2: 42.7

Peak table for sample 2 : H2 Cleaned 1:2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	74.79	856.1	
3	348	1,055.46	4,594.1	
4	354	227.09	971.0	
5	361	190.78	800.5	
6	371	211.19	862.6	
7	379	574.70	2,295.8	
8	409	446.74	1,654.9	
9	442	327.95	1,123.4	
10	472	429.30	1,378.3	
11	518	148.35	434.1	
12	534	78.69	223.4	
13	550	243.78	671.8	
14	611	71.94	178.3	
15	655	134.10	310.3	
16	693	97.62	213.5	
17	780	183.58	356.8	
18	947	229.16	366.6	
19	1,626	13.59	12.7	
20	1,781	12.36	10.5	
21	2,280	13.90	9.2	
22	2,584	11.76	6.9	
23	3,336	44.19	20.1	
24	3,831	14.98	5.9	
25	5,051	62.95	18.9	
26	8,165	5.57	1.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad



Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : H2 Cleaned 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	 10,380	75.00	10.9	Upper Marker

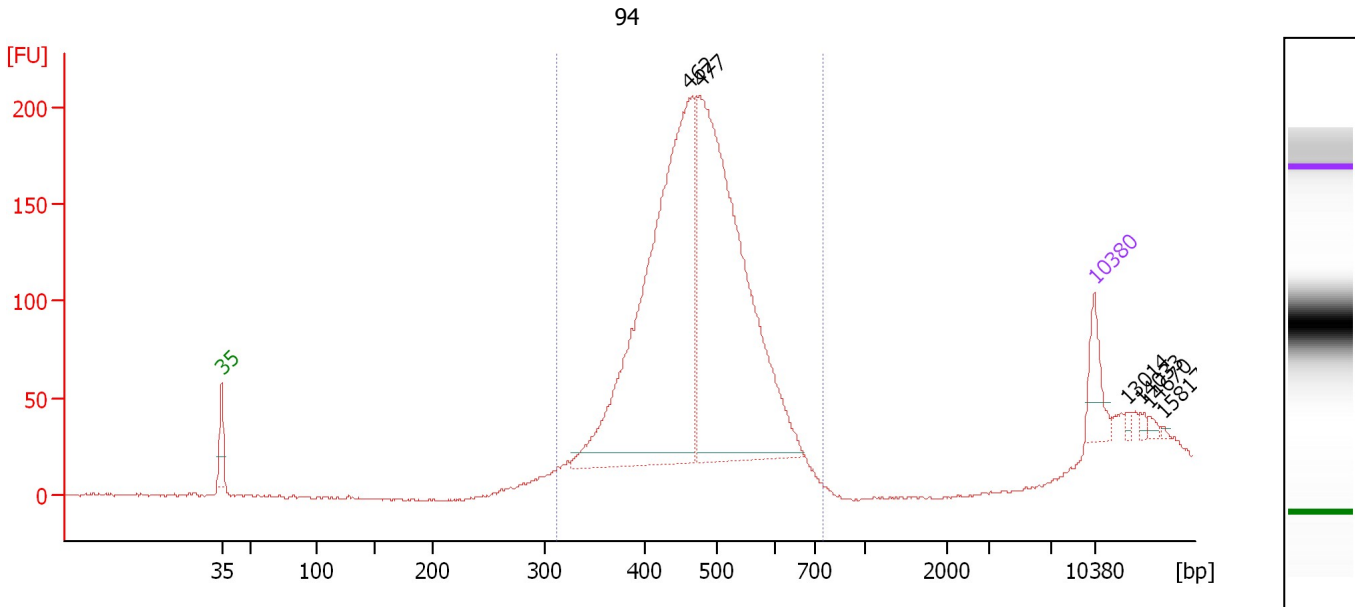
Region table for sample 2 : H2 Cleaned 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
123	144	133	863.3	75.87	42.7	1	3.1	
262	1,590	515	17,339.8	4,959.54	3,929.4	92	43.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 94

Number of peaks found: 6 Corr. Area 1: 2,240.6
 Noise: 0.6

Peak table for sample 3 : 94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	462	1,563.32	5,128.2	
3	477	1,490.61	4,735.5	
4	10,380	75.00	10.9	Upper Marker
5	13,014	0.00	0.0	
6	14,033	0.00	0.0	
7	14,670	0.00	0.0	
8	15,817	0.00	0.0	

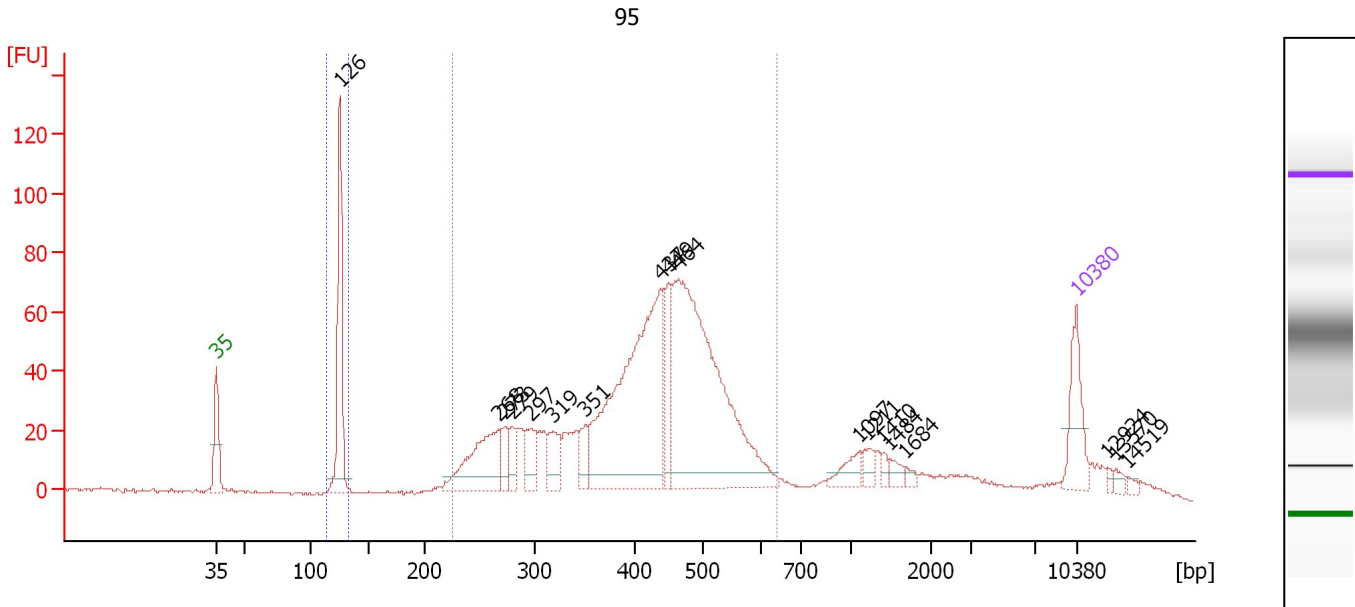
Region table for sample 3 : 94

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
311	745	473	10,523.8	3,201.83	2,240.6	96	13.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 95

Number of peaks found: 18 Corr. Area 1: 1,153.6
 Noise: 0.5 Corr. Area 2: 106.2

Peak table for sample 4 : 95

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	271.69	3,274.0	
3	268	191.52	1,083.3	
4	273	38.75	214.9	
5	279	37.81	205.0	
6	297	51.00	260.4	
7	319	62.20	295.5	
8	351	45.63	196.9	
9	437	601.29	2,083.1	
10	449	88.85	300.0	
11	464	706.61	2,307.0	
12	1,097	32.64	45.1	
13	1,211	21.02	26.3	
14	1,410	8.93	9.6	
15	1,484	14.51	14.8	
16	1,684	7.46	6.7	
17	10,380	75.00	10.9	Upper Marker
18	12,924	0.00	0.0	
19	13,570	0.00	0.0	
20	14,519	0.00	0.0	

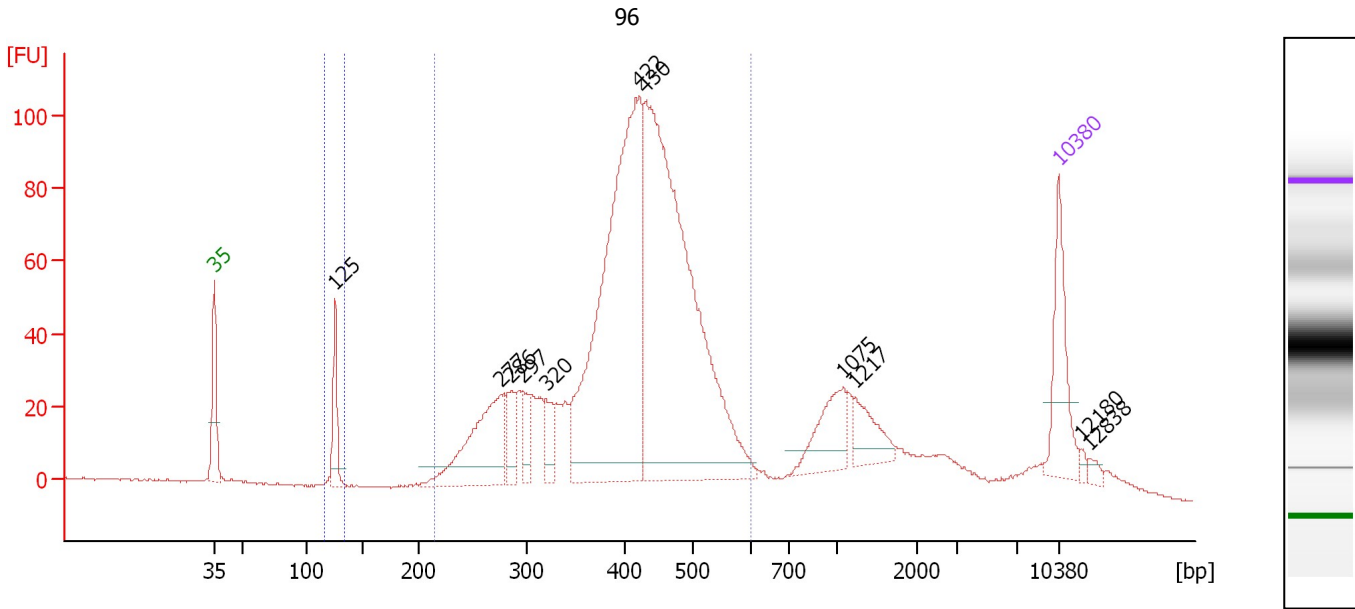
Region table for sample 4 : 95

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
114	133	126	3,208.3	265.74	106.2	7	1.6	Blue
225	640	419	8,243.2	2,101.61	1,153.6	78	21.5	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 96

Number of peaks found: 11 Corr. Area 1: 1,489.3
 Noise: 0.3 Corr. Area 2: 38.6

Peak table for sample 5 : 96

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	71.21	860.8	
3	277	178.99	979.1	
4	286	39.59	209.9	
5	297	30.68	156.5	
6	320	38.39	181.9	
7	422	641.03	2,302.8	
8	430	774.76	2,732.8	
9	1,075	67.39	95.0	
10	1,217	44.25	55.1	
11	10,380	75.00	10.9	Upper Marker
12	12,180	0.00	0.0	
13	12,838	0.00	0.0	

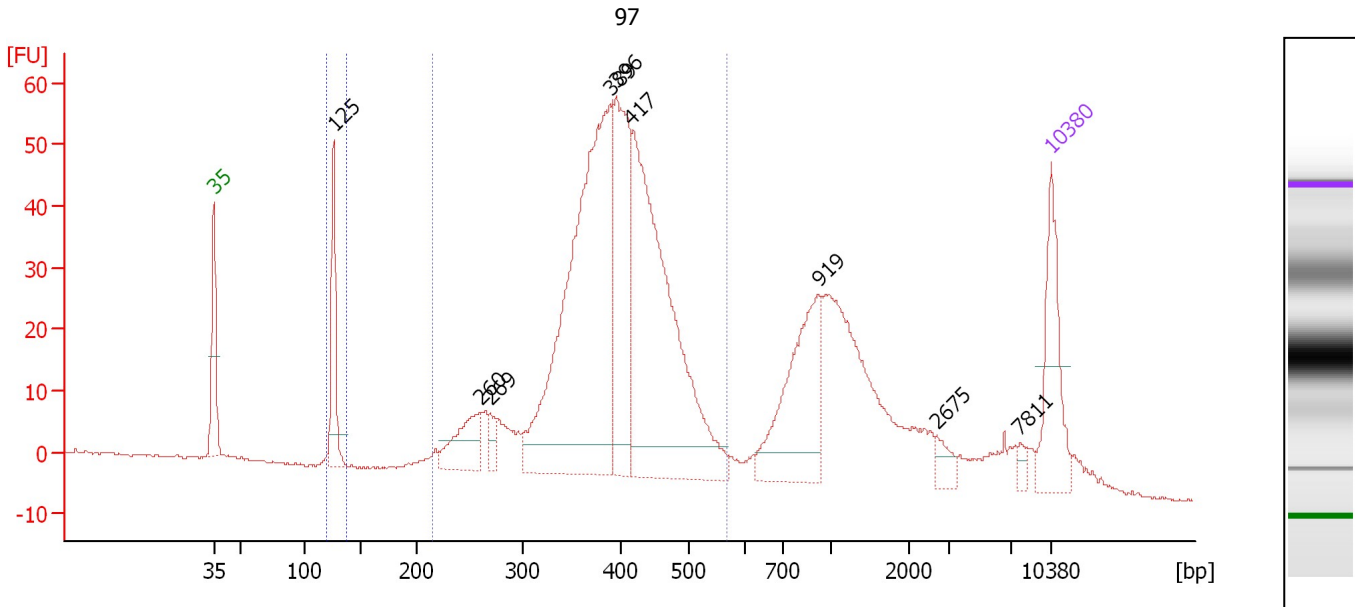
Region table for sample 5 : 96

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
116	133	125	837.7	69.18	38.6	2	1.5	Blue
216	602	412	7,578.5	1,936.60	1,489.3	79	19.1	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 97

Number of peaks found: 9 Corr. Area 1: 799.3
 Noise: 0.2 Corr. Area 2: 42.5

Peak table for sample 6 : 97

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	106.00	1,281.4	
3	260	71.25	415.2	
4	269	17.27	97.3	
5	389	565.42	2,199.9	
6	396	204.86	783.7	
7	417	464.79	1,688.4	
8	919	156.70	258.4	
9	2,675	14.67	8.3	
10	7,811	6.22	1.2	
11	10,380	75.00	10.9	Upper Marker

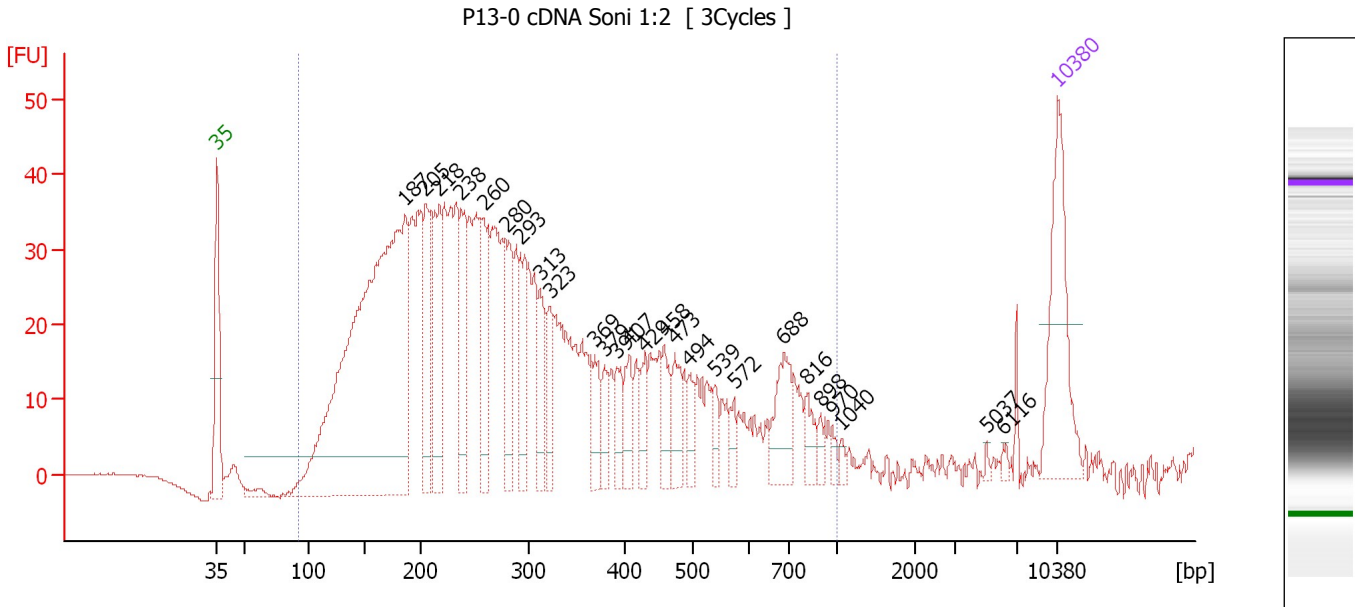
Region table for sample 6 : 97

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
119	136	125	1,237.0	102.39	42.5	4	1.6	Blue
216	567	394	5,643.1	1,405.50	799.3	67	16.3	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : P13-0 cDNA Soni 1:2

Number of peaks found: 26 Corr. Area 1: 1,217.2
 Noise: 0.2

Peak table for sample 7 : P13-0 cDNA Soni 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	187	671.76	5,450.0	
3	205	87.71	647.3	
4	218	94.74	658.0	
5	238	74.10	471.0	
6	260	77.21	450.6	
7	280	55.12	298.5	
8	293	57.40	296.7	
9	313	42.48	205.8	
10	323	33.76	158.3	
11	369	30.41	124.8	
12	379	19.35	77.3	
13	391	24.40	94.5	
14	407	26.01	96.9	
15	429	20.49	72.4	
16	458	26.24	86.8	
17	473	27.67	88.6	
18	494	15.85	48.6	
19	539	13.62	38.2	
20	572	11.48	30.4	
21	688	42.71	94.0	
22	816	17.15	31.8	
23	898	6.93	11.7	
24	970	4.68	7.3	
25	1,040	4.51	6.6	
26	5,037	1.88	0.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad


Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : P13-0 cDNA Soni 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,116	2.83	0.7	
28	10,380	75.00	10.9	Upper Marker

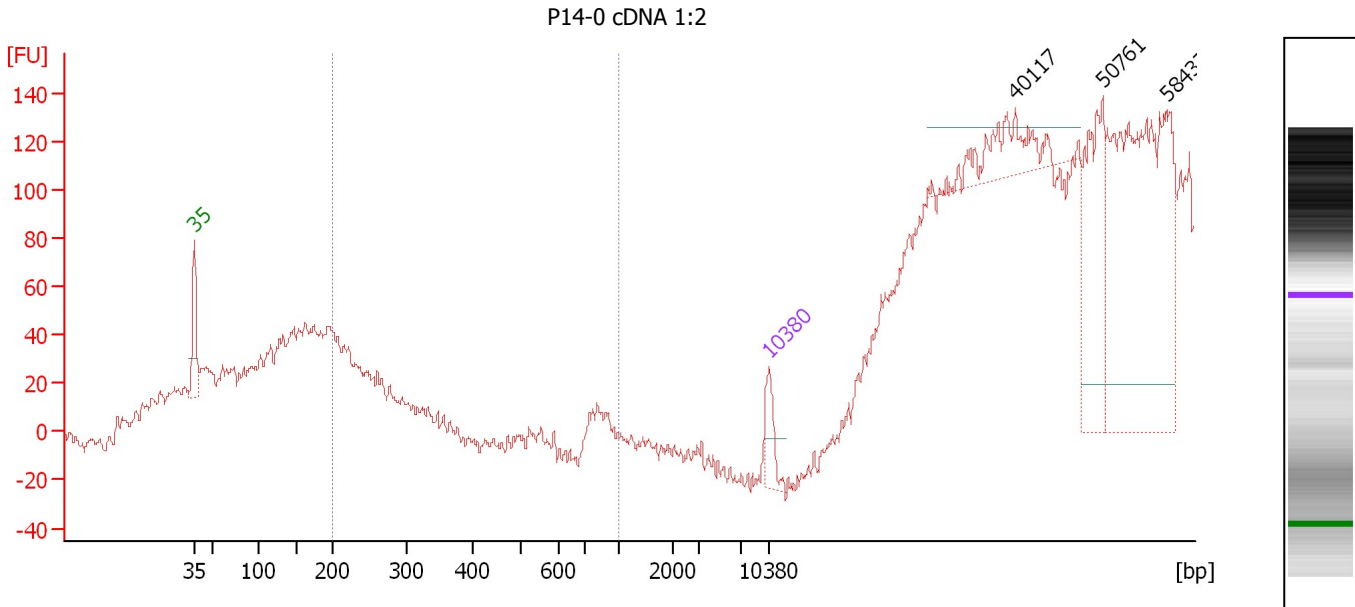
Region table for sample 7 : P13-0 cDNA Soni 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
92	1,000	312	14,367.0	2,198.42	1,217.2	99	51.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
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Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : P14-0 cDNA 1:2

Height Threshold [FU] : 20

Overall Results for sample 8 : P14-0 cDNA 1:2

Number of peaks found: 3 Corr. Area 1: 46.2
 Noise: 3.4

Peak table for sample 8 : P14-0 cDNA 1:2

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	40,117	0.00	0.0	
4	50,761	0.00	0.0	
5	58,437	0.00	0.0	

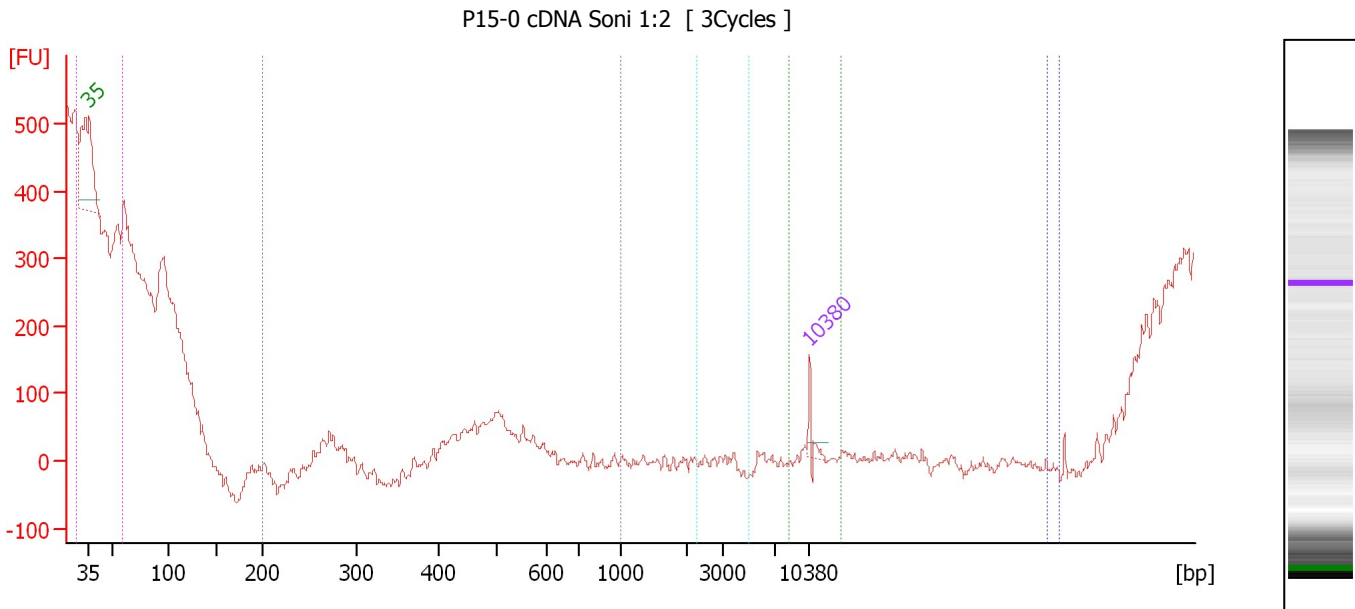
Region table for sample 8 : P14-0 cDNA 1:2

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	213	928.7	130.29	46.2	4	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : P15-0 cDNA Soni 1:2

Number of peaks found:	0	Corr. Area 3:	0.0
Noise:	15.4	Corr. Area 4:	0.0
Corr. Area 1:	0.0	Corr. Area 5:	0.0
Corr. Area 2:	0.0		

Peak table for sample 9 : P15-0 cDNA Soni 1:2

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

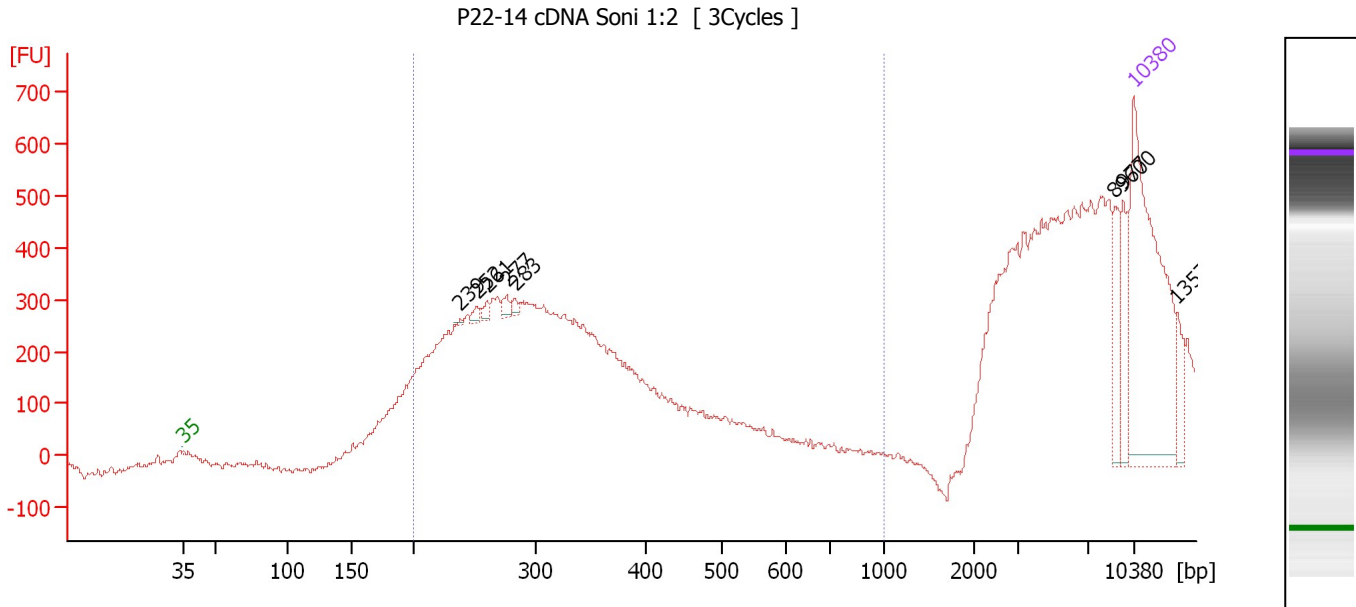
Region table for sample 9 : P15-0 cDNA Soni 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
27	58	34	0.0	0.00	0.0	0	3.4	Magenta
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue
2,274	5,029	0	0.0	0.00	0.0	0	0.0	Cyan
8,467	13,434	0	0.0	0.00	0.0	0	0.0	Green
33,379	34,569	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
 Modified: 11/1/2013 10:10:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : P22-14 cDNA Soni 1:2

Number of peaks found: 8 Corr. Area 1: 5,144.1
 Noise: 6.6

Peak table for sample 10 : P22-14 cDNA Soni 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	0.59	3.7	
3	252	2.71	16.3	
4	261	2.56	14.9	
5	277	3.21	17.6	
6	283	2.15	11.5	
7	8,977	12.87	2.2	
8	9,600	12.63	2.0	
9	10,380	75.00	10.9	Upper Marker
10	13,576	0.00	0.0	

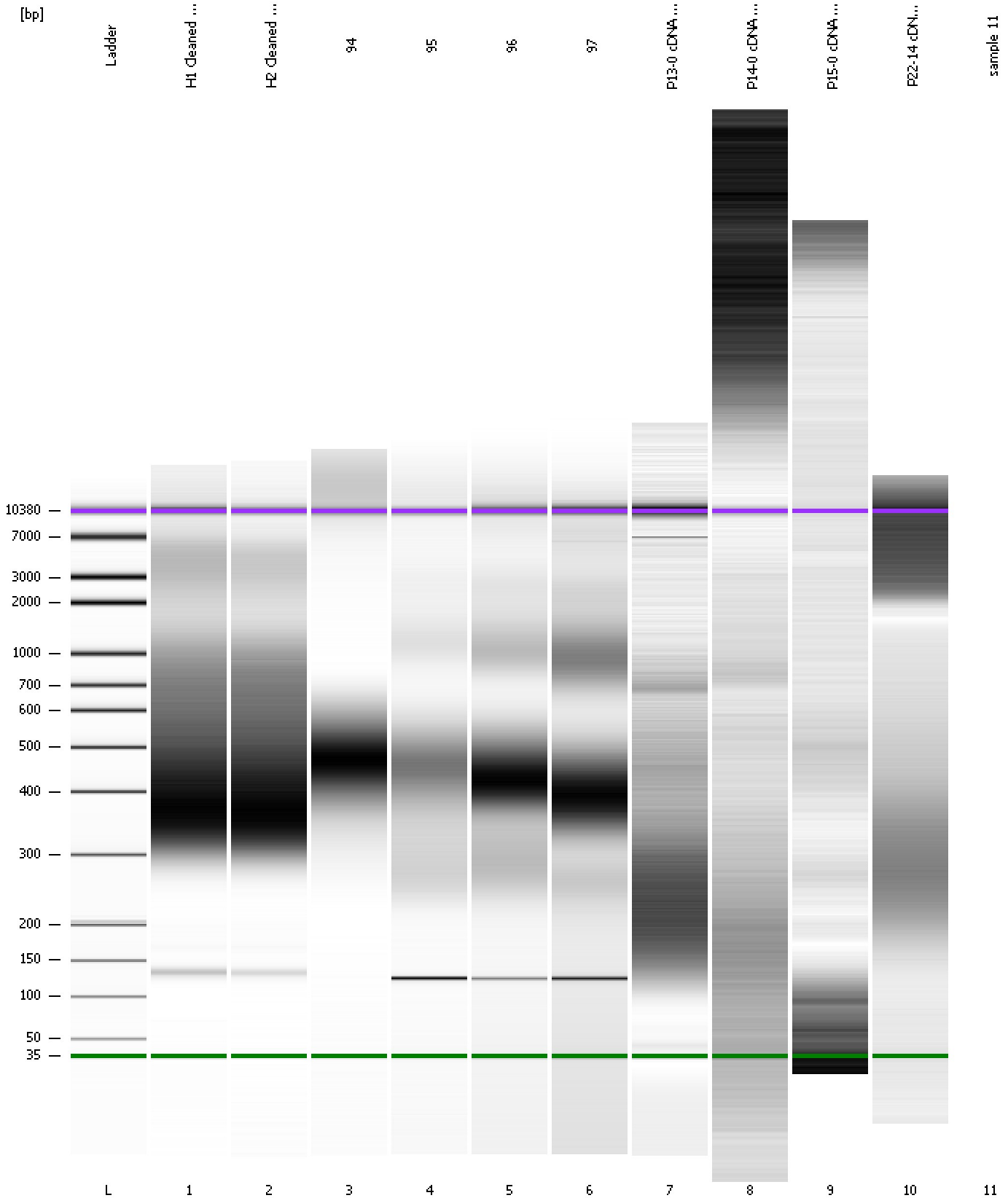
Region table for sample 10 : P22-14 cDNA Soni 1:2

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	289	2,102.9	387.34	5,144.1	63	17.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
Modified: 11/1/2013 10:10:34 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01_001.xad

Created: 11/1/2013 9:28:01 AM
Modified: 11/1/2013 10:10:34 AM

Invalid Samples

Sample 11 has not been run, no results available.