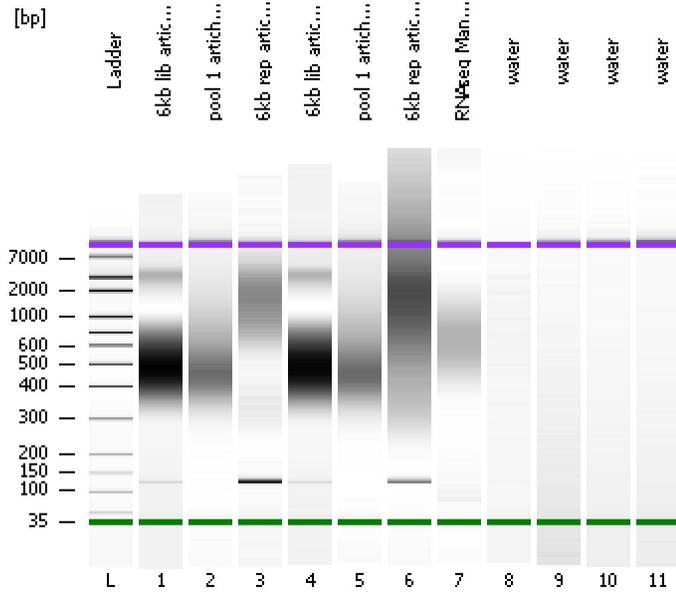


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
Modified: 7/20/2012 5:04:18 PM

Electrophoresis File Run Summary



Instrument Information:

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

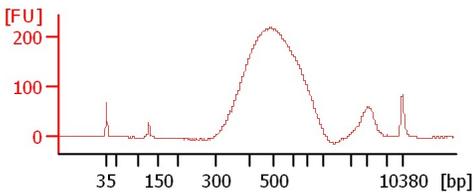
Assay Information:

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

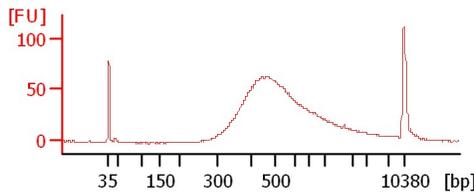
Chip Information:

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

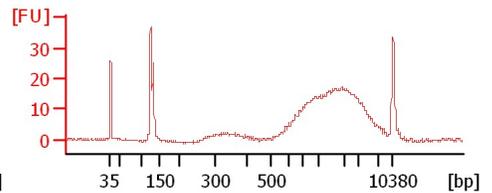
6kb lib artichoke



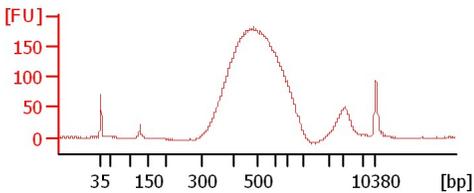
pool 1 artichoke 1:3 dil.



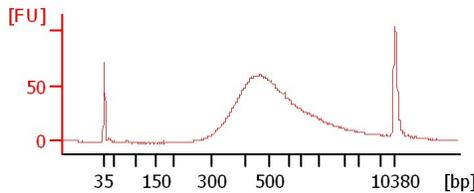
6kb rep artichoke



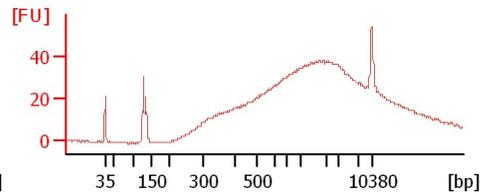
6kb lib artichoke



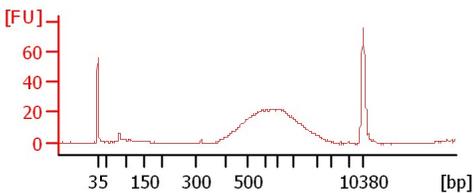
pool 1 artichoke 1:3 dil.



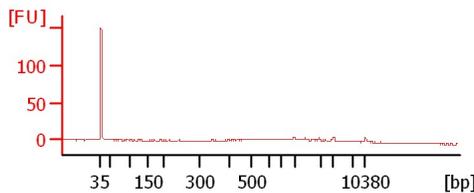
6kb rep artichoke



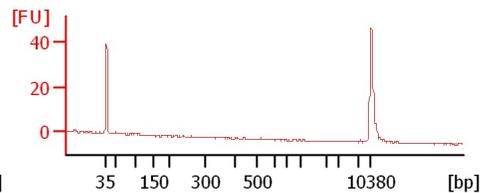
RNaseq ManjuYoongLutz



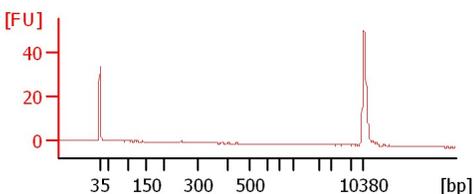
water



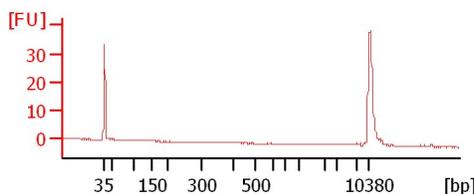
water



water



water



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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pool 1 artichoke 1:3 dil.		<input type="checkbox"/>	✓			
6kb rep artichoke		<input type="checkbox"/>	✓			
6kb lib artichoke		<input type="checkbox"/>	✓			
pool 1 artichoke 1:3 dil.		<input type="checkbox"/>	✓			
6kb rep artichoke		<input type="checkbox"/>	✓			
RNAseq ManjuYoongLutz		<input type="checkbox"/>	✓			
water		<input type="checkbox"/>	✓			
water		<input type="checkbox"/>	✓			
water		<input type="checkbox"/>	✓			
water		<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\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
Modified: 7/20/2012 5:04:18 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

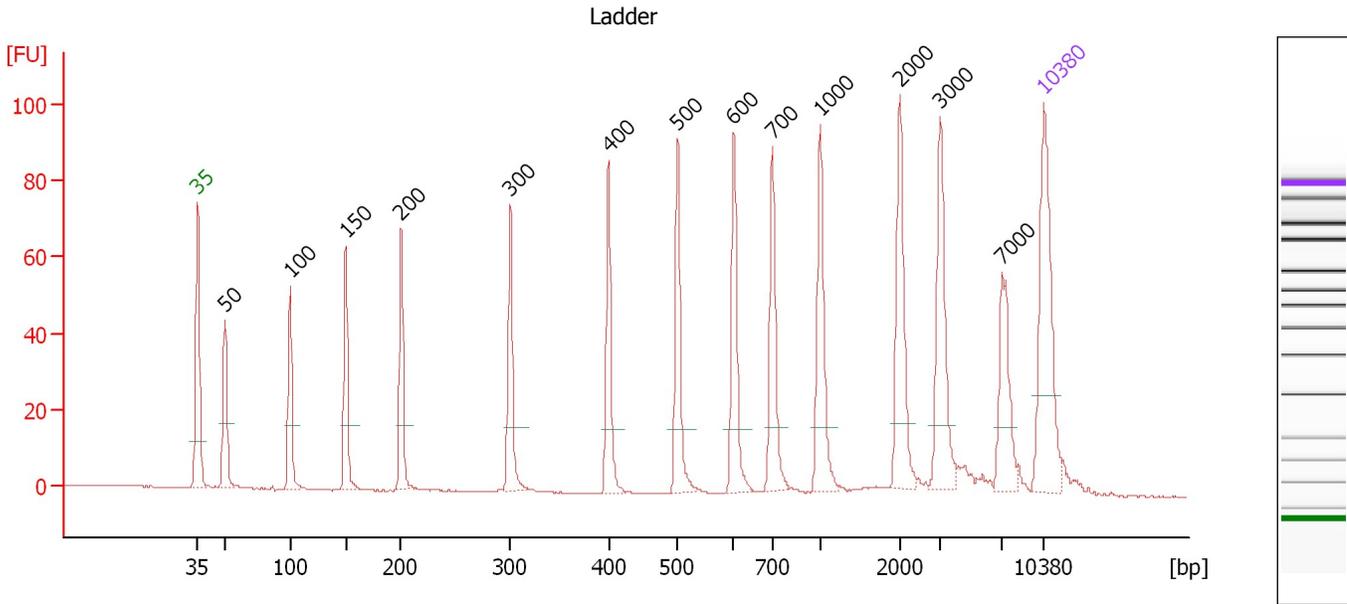
Ladder

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\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

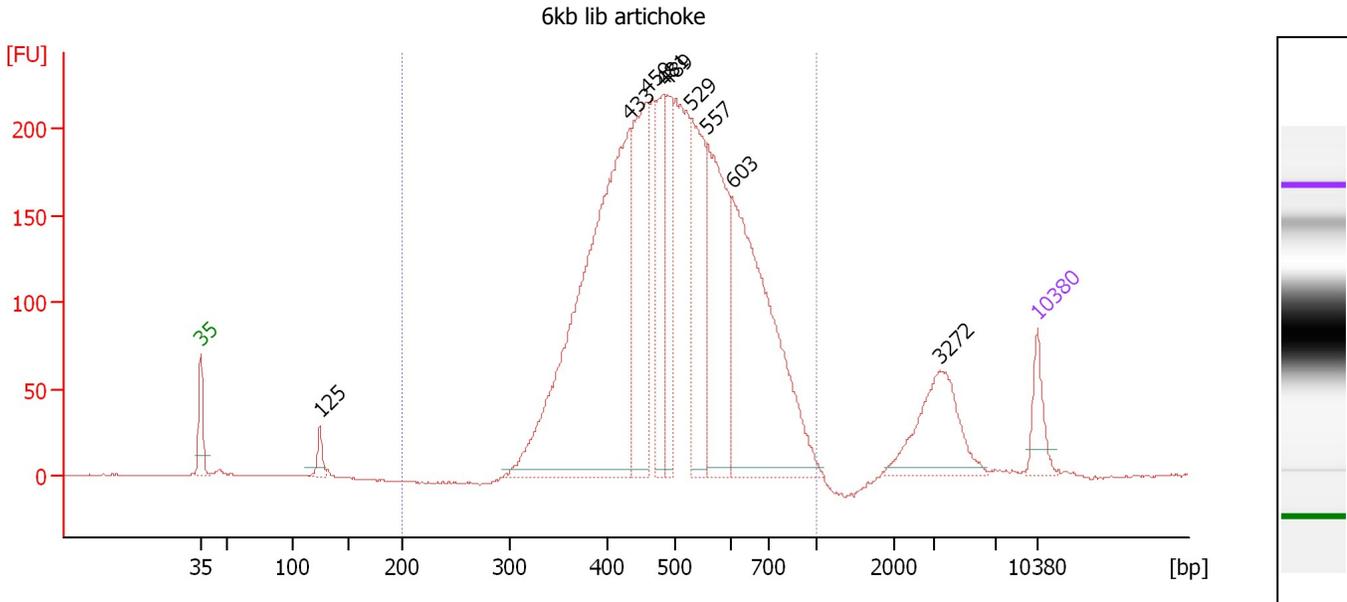
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 6kb lib artichoke

Number of peaks found: 9 Corr. Area 1: 4,135.1
 Noise: 0.2

Peak table for sample 1 : 6kb lib artichoke

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	56.35	682.8	
3	433	1,800.02	6,294.9	
4	459	579.13	1,912.0	
5	481	313.87	987.7	
6	489	277.68	859.9	
7	529	450.80	1,291.6	
8	557	562.10	1,527.8	
9	603	976.44	2,452.1	
10	3,272	252.53	116.9	
11	10,380	75.00	10.9	Upper Marker

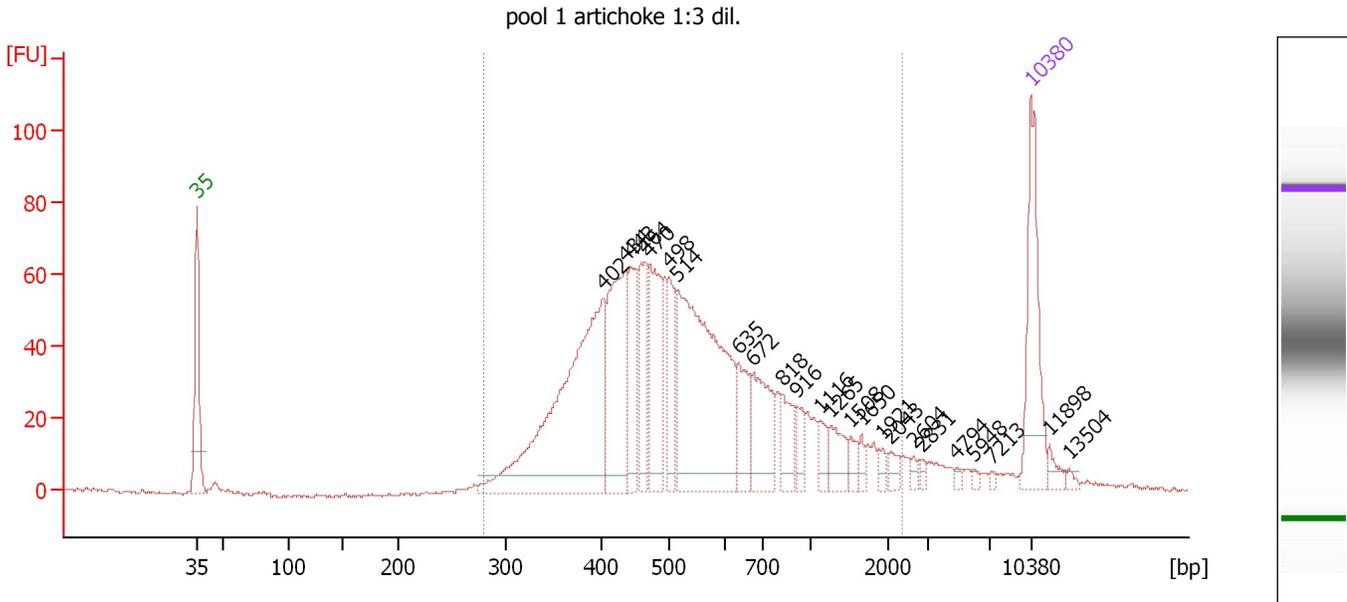
Region table for sample 1 : 6kb lib artichoke

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	511	18,136.6	5,730.83	4,135.1	93	23.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : pool 1 artichoke 1:3 dil.

Number of peaks found: 24 Corr. Area 1: 1,374.3
 Noise: 0.5

Peak table for sample 2 : pool 1 artichoke 1:3 dil.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	402	330.42	1,245.1	
3	434	142.96	499.0	
4	443	66.09	226.2	
5	464	66.25	216.5	
6	470	91.99	296.6	
7	498	49.21	149.7	
8	514	285.29	841.2	
9	635	44.57	106.4	
10	672	67.53	152.2	
11	818	30.80	57.0	
12	916	17.68	29.2	
13	1,116	15.85	21.5	
14	1,265	22.86	27.4	
15	1,508	10.50	10.5	
16	1,650	6.48	5.9	
17	1,921	6.23	4.9	
18	2,043	7.62	5.6	
19	2,604	3.84	2.2	
20	2,831	3.82	2.0	
21	4,794	2.90	0.9	
22	5,948	2.54	0.6	
23	7,213	1.96	0.4	
24	10,380	75.00	10.9	Upper Marker
25	11,898	0.00	0.0	
26	13,504	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...

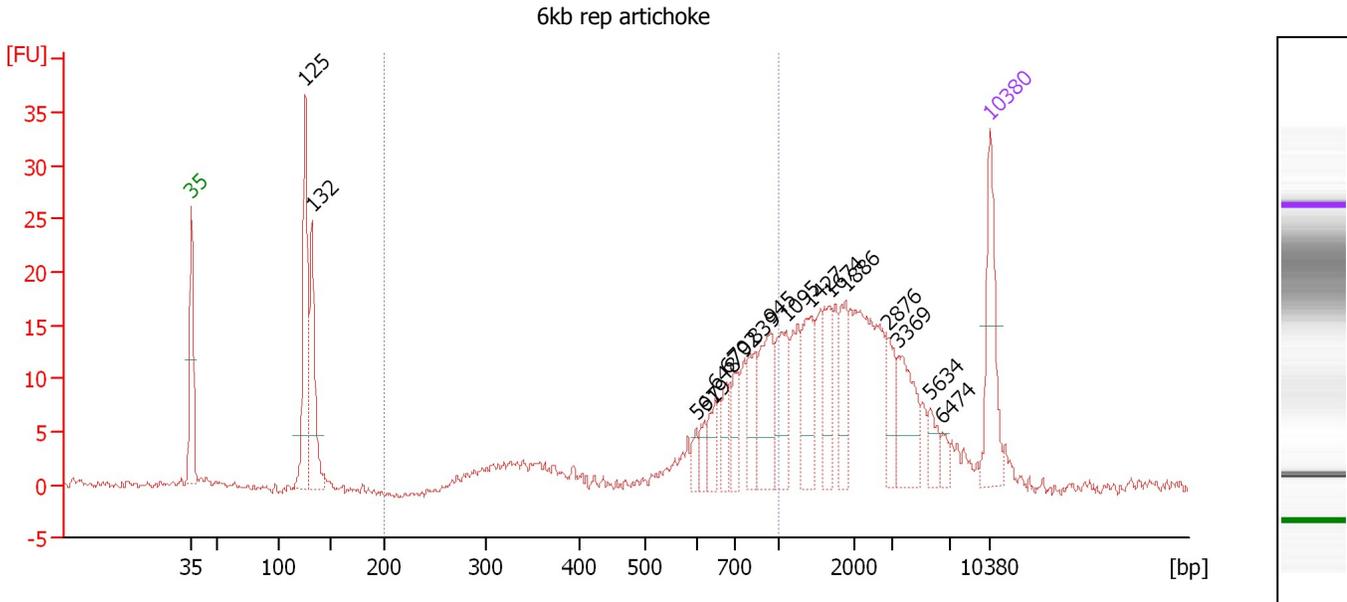
... Region table for sample 2 : pool 1 artichoke 1:3 dil.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	2,318	614	4,127.7	1,342.90	1,374.3	94	56.4	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 6kb rep artichoke

Number of peaks found: 17 Corr. Area 1: 105.9
 Noise: 0.4

Peak table for sample 3 : 6kb rep artichoke

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	190.64	2,309.4	
3	132	136.58	1,572.1	
4	597	14.73	37.4	
5	619	15.46	37.8	
6	648	29.15	68.1	
7	679	29.55	66.0	
8	702	33.30	71.9	
9	839	45.05	81.3	
10	945	74.47	119.4	
11	1,095	64.68	89.5	
12	1,427	61.42	65.2	
13	1,674	43.63	39.5	
14	1,886	44.49	35.7	
15	2,876	33.19	17.5	
16	3,369	62.18	28.0	
17	5,634	19.50	5.2	
18	6,474	9.79	2.3	
19	10,380	75.00	10.9	Upper Marker

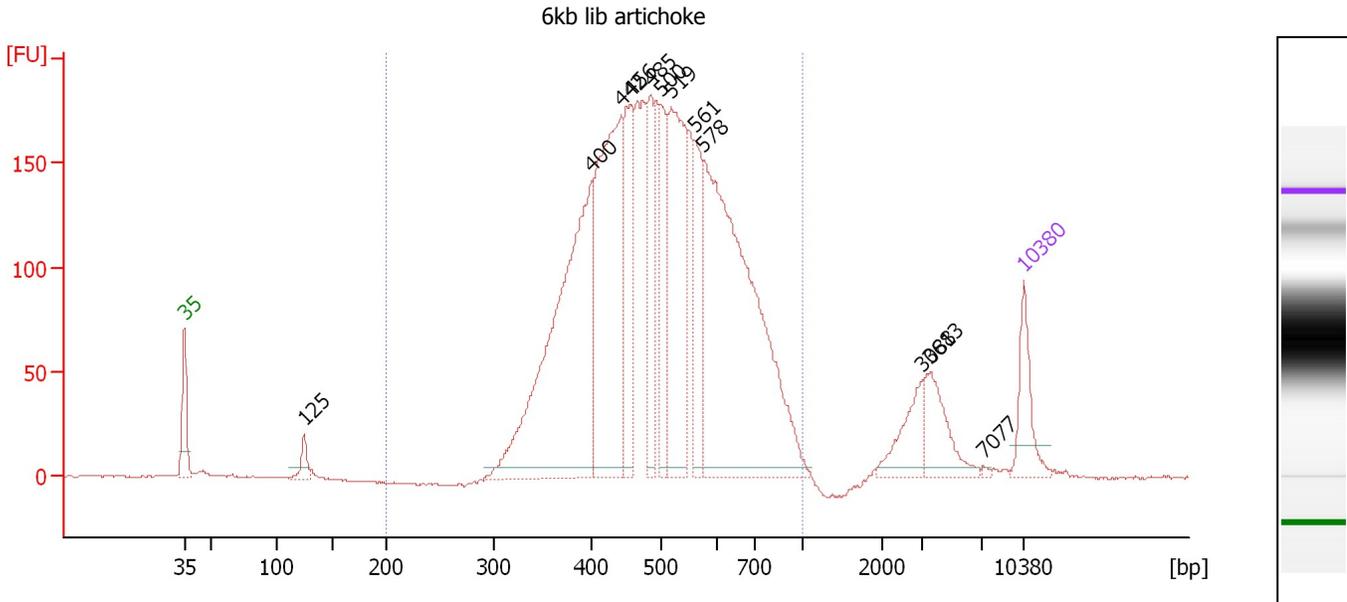
Region table for sample 3 : 6kb rep artichoke

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	713	954.0	382.55	105.9	29	26.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 6kb lib artichoke

Number of peaks found: 12 Corr. Area 1: 3,470.1
 Noise: 0.4

Peak table for sample 4 : 6kb lib artichoke

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	39.51	477.5	
3	400	850.39	3,225.2	
4	442	602.42	2,065.3	
5	456	230.56	765.8	
6	485	179.44	560.1	
7	500	160.75	487.5	
8	519	387.34	1,130.6	
9	561	161.23	435.3	
10	578	947.15	2,484.8	
11	3,088	77.91	38.2	
12	3,613	95.92	40.2	
13	7,077	3.07	0.7	
14	10,380	75.00	10.9	Upper Marker

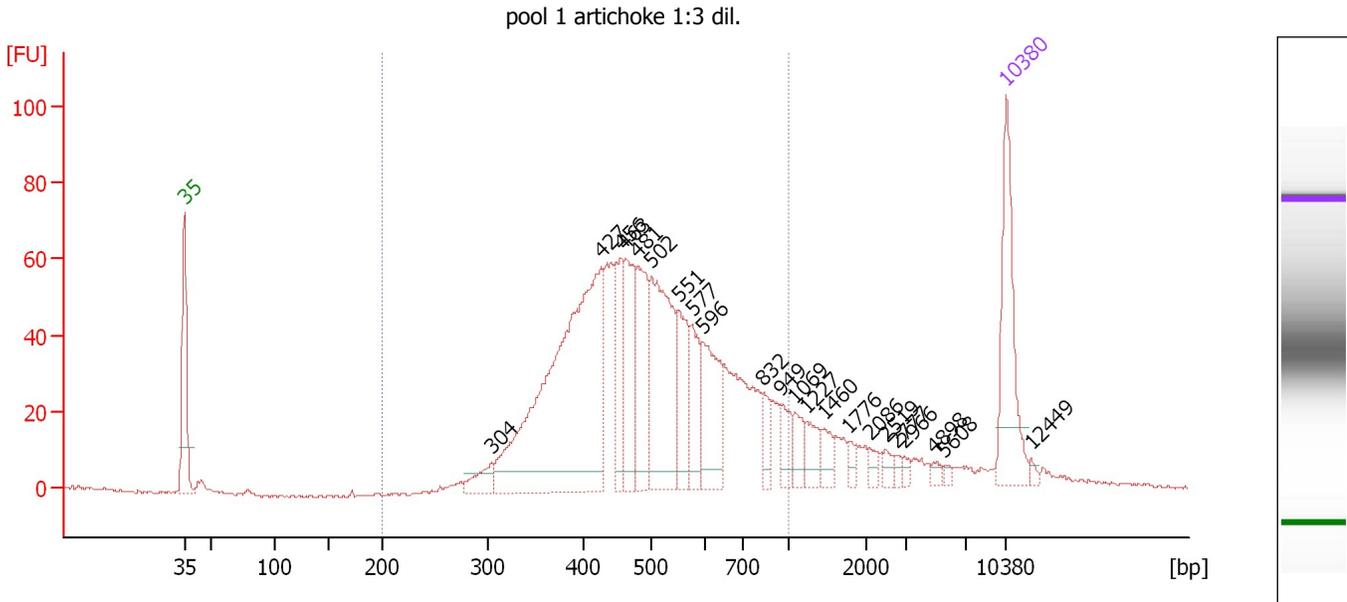
Region table for sample 4 : 6kb lib artichoke

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	513	12,880.5	4,067.19	3,470.1	94	23.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : pool 1 artichoke 1:3 dil.

Number of peaks found: 22 Corr. Area 1: 1,211.9
 Noise: 0.4

Peak table for sample 5 : pool 1 artichoke 1:3 dil.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	22.98	114.4	
3	427	404.98	1,437.7	
4	456	60.59	201.3	
5	463	77.48	253.4	
6	481	83.47	262.7	
7	502	153.49	462.9	
8	551	57.27	157.5	
9	577	43.96	115.4	
10	596	69.39	176.5	
11	832	17.87	32.5	
12	949	20.49	32.7	
13	1,069	17.04	24.1	
14	1,227	19.57	24.2	
15	1,460	12.83	13.3	
16	1,776	6.27	5.4	
17	2,086	5.97	4.3	
18	2,519	6.04	3.6	
19	2,777	3.79	2.1	
20	2,966	4.01	2.0	
21	4,898	3.90	1.2	
22	5,608	2.58	0.7	
23	10,380	75.00	10.9	Upper Marker
24	12,449	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...

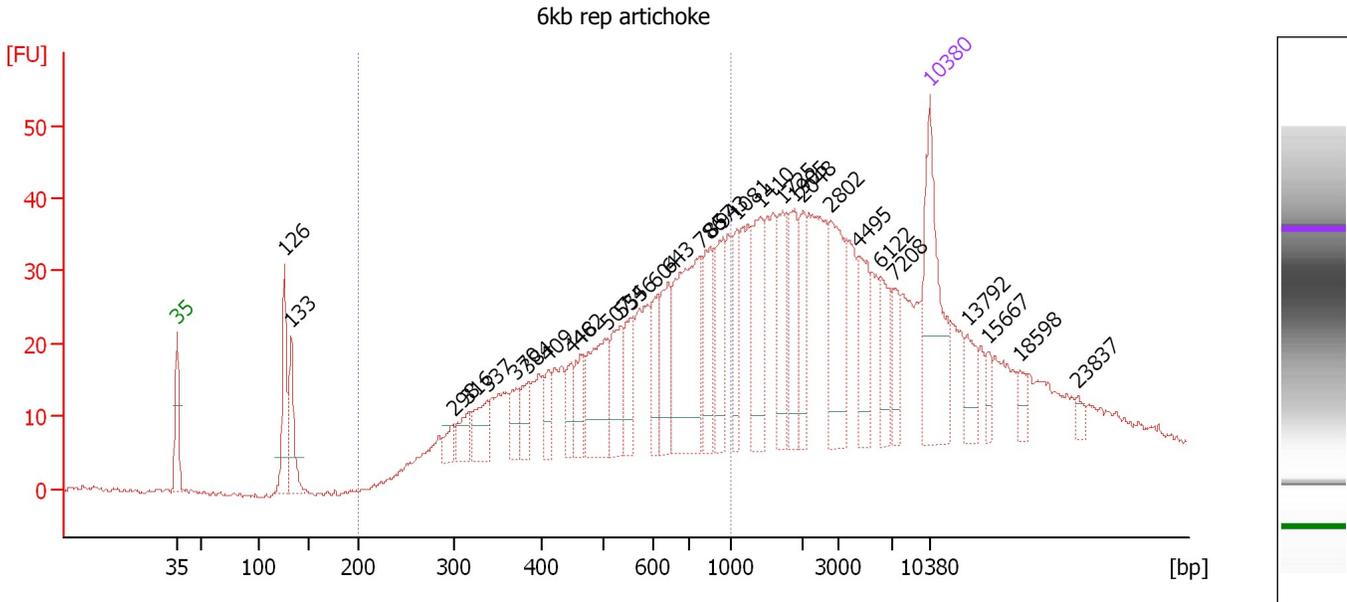
... Region table for sample 5 : pool 1 artichoke 1:3 dil.

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	514	3,865.3	1,197.42	1,211.9	86	28.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6kb rep artichoke

Number of peaks found: 31 Corr. Area 1: 564.2
 Noise: 0.4

Peak table for sample 6 : 6kb rep artichoke

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	63.49	765.0	
3	133	50.35	574.9	
4	298	13.03	66.2	
5	316	21.12	101.4	
6	337	28.77	129.4	
7	370	19.04	77.9	
8	384	18.57	73.2	
9	409	19.28	71.3	
10	448	17.74	60.1	
11	462	22.57	74.0	
12	507	64.58	193.2	
13	534	39.13	111.0	
14	556	30.97	84.3	
15	604	26.49	66.4	
16	643	43.13	101.7	
17	786	115.77	223.2	
18	857	39.87	70.5	
19	943	43.59	70.0	
20	1,081	27.01	37.9	
21	1,410	50.94	54.7	
22	1,725	33.51	29.4	
23	1,905	32.51	25.9	
24	2,048	26.19	19.4	
25	2,802	57.65	31.2	
26	4,495	34.18	11.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 6kb rep artichoke

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,122	26.04	6.4	
28	7,208	17.52	3.7	
29	10,380	75.00	10.9	Upper Marker
30	13,792	0.00	0.0	
31	15,667	0.00	0.0	
32	18,598	0.00	0.0	
33	23,837	0.00	0.0	

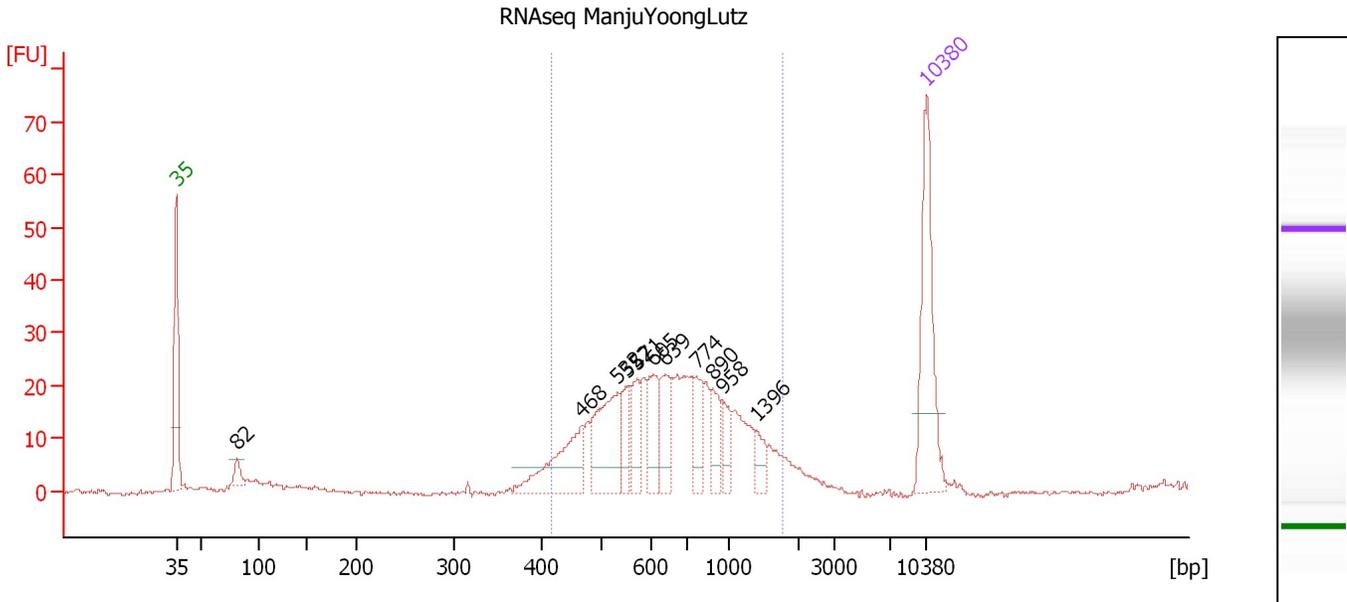
Region table for sample 6 : 6kb rep artichoke

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	580	2,677.4	870.37	564.2	45	32.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNAseq ManjuYoongLutz

Number of peaks found: 11 Corr. Area 1: 388.2
 Noise: 0.3

Peak table for sample 7 : RNAseq ManjuYoongLutz

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	13.64	252.3	
3	468	67.85	219.9	
4	532	73.45	209.0	
5	552	23.68	65.0	
6	571	27.50	73.0	
7	605	33.63	84.2	
8	639	32.40	76.8	
9	774	24.70	48.4	
10	890	24.75	42.1	
11	958	17.96	28.4	
12	1,396	13.90	15.1	
13	10,380	75.00	10.9	Upper Marker

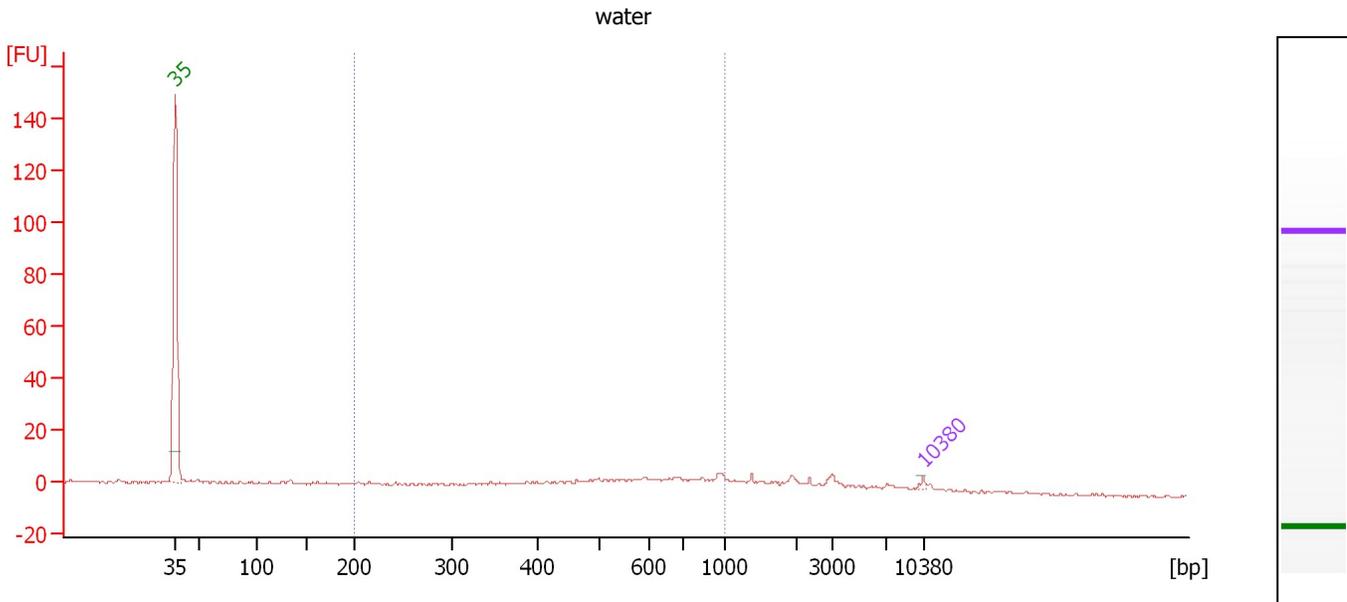
Region table for sample 7 : RNAseq ManjuYoongLutz

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
417	1,769	750	1,122.1	478.38	388.2	86	39.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : water

Number of peaks found: 0 Corr. Area 1: 99.5
 Noise: 0.5

Peak table for sample 8 : water

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

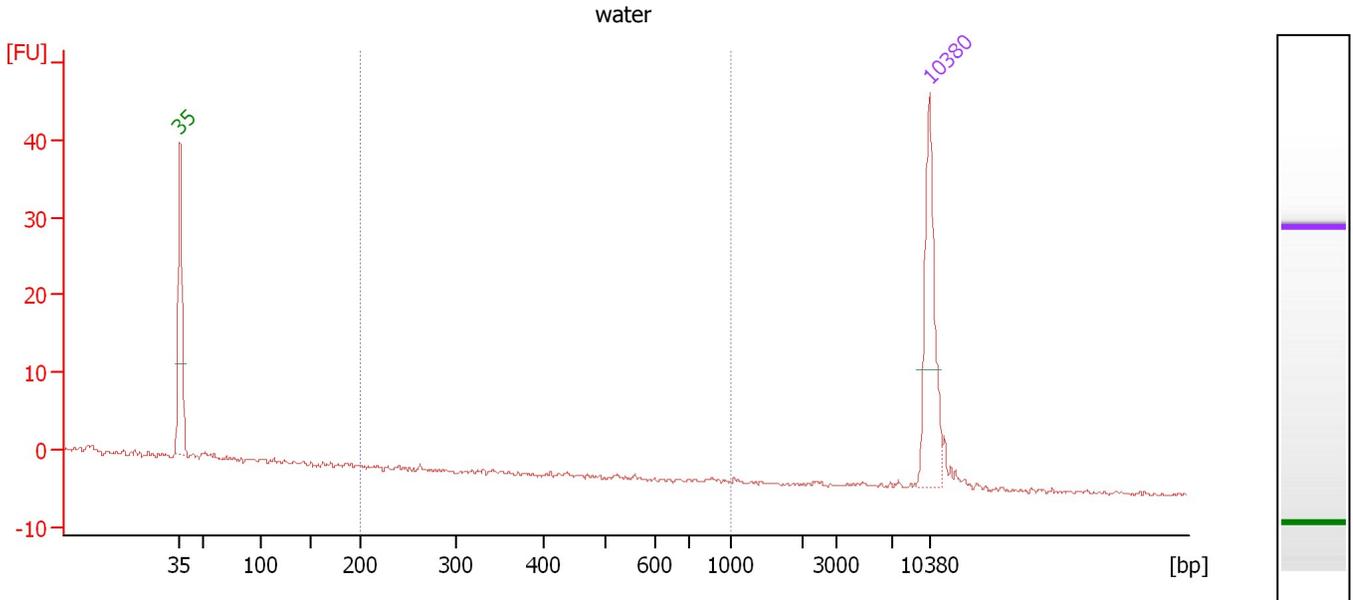
Region table for sample 8 : water

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	561	15,475.6	4,608.84	99.5	52	35.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
 Modified: 7/20/2012 5:04:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : water

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

Peak table for sample 9 : water

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

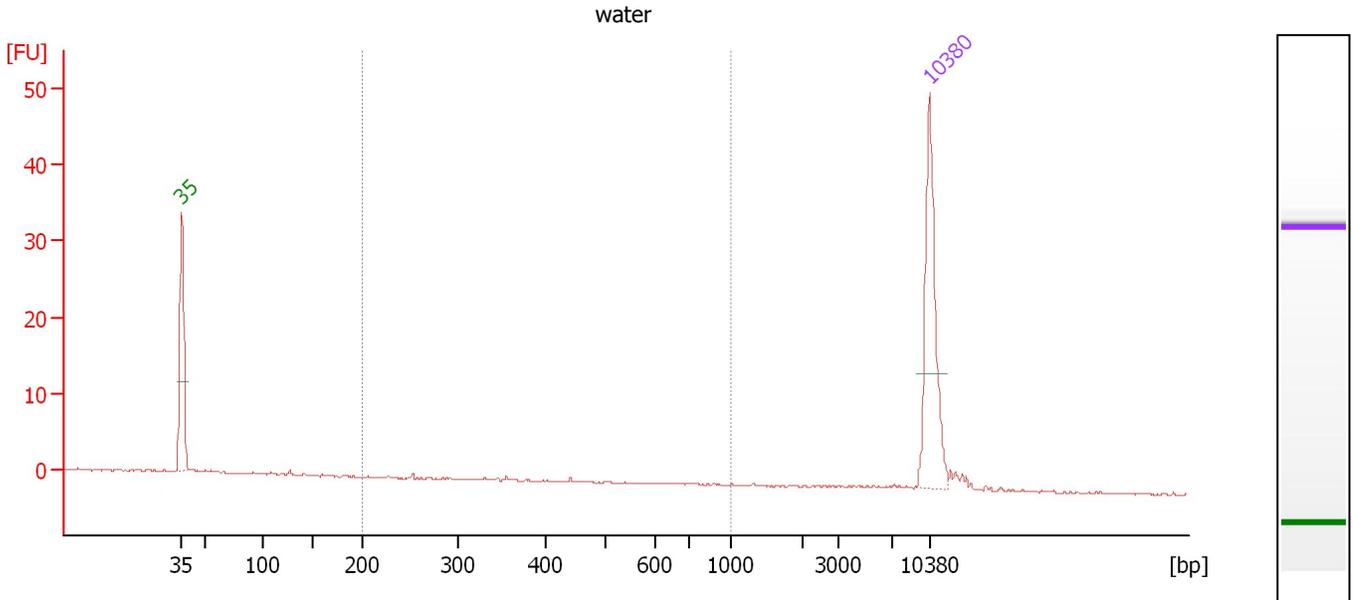
Region table for sample 9 : water

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\2012-07-20\2012-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : water

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

Peak table for sample 10 : water

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

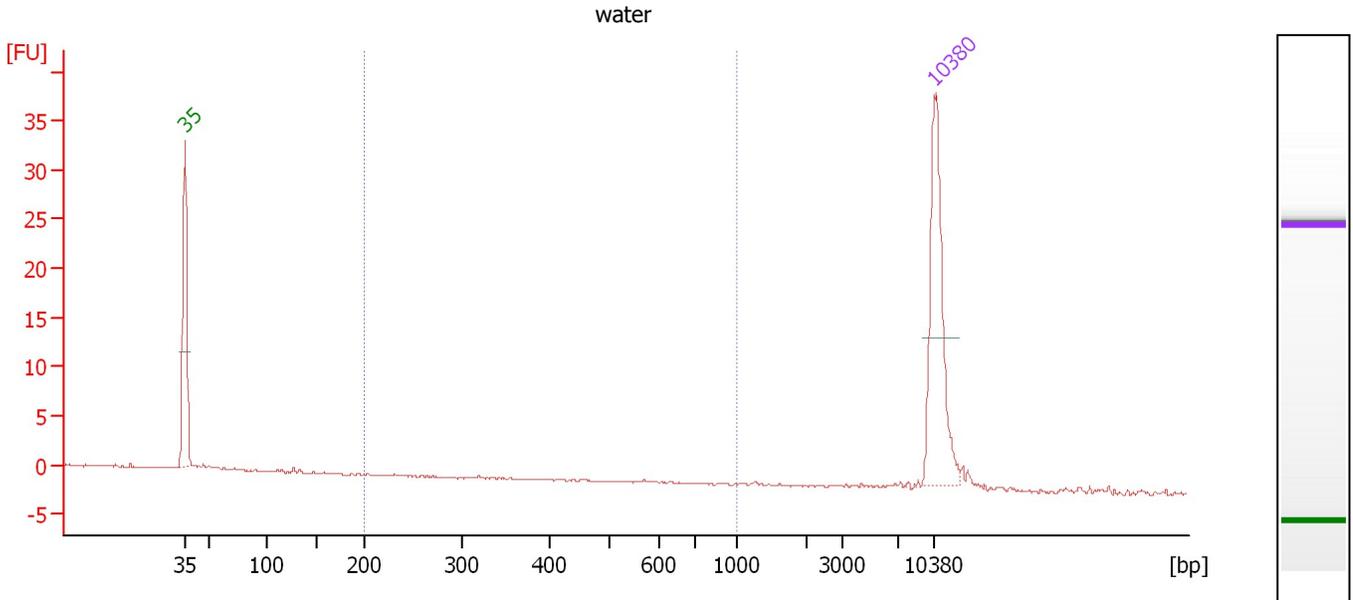
Region table for sample 10 : water

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	332	5.0	1.00	0.4	6	21.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : water

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 11 : water

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

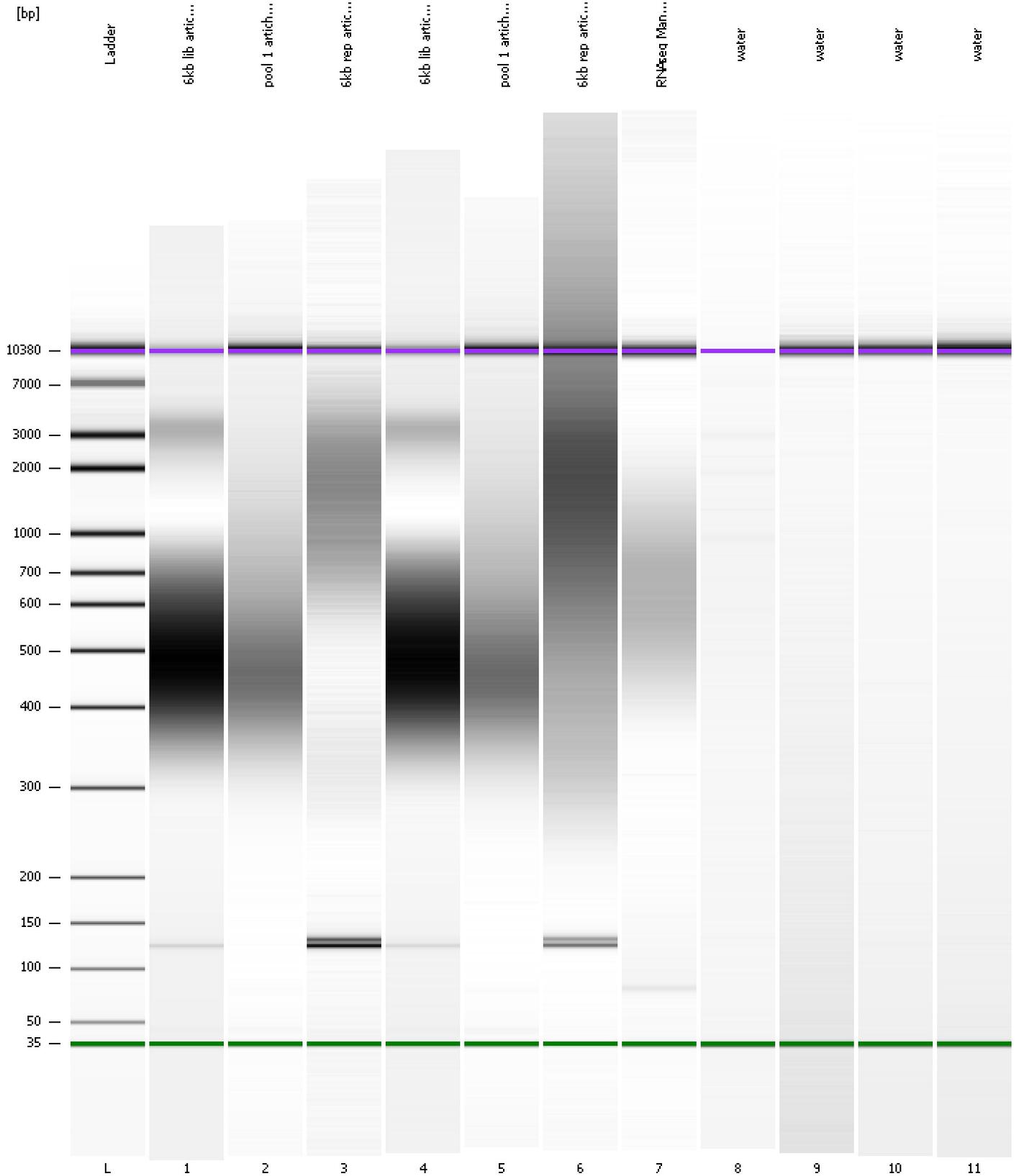
Region table for sample 11 : water

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\2012-07-20\2012-07-20_001.xad

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Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-20\2012-07-20_001.xad

Created: 7/20/2012 11:39:38 AM
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Curves

Standard Curve

