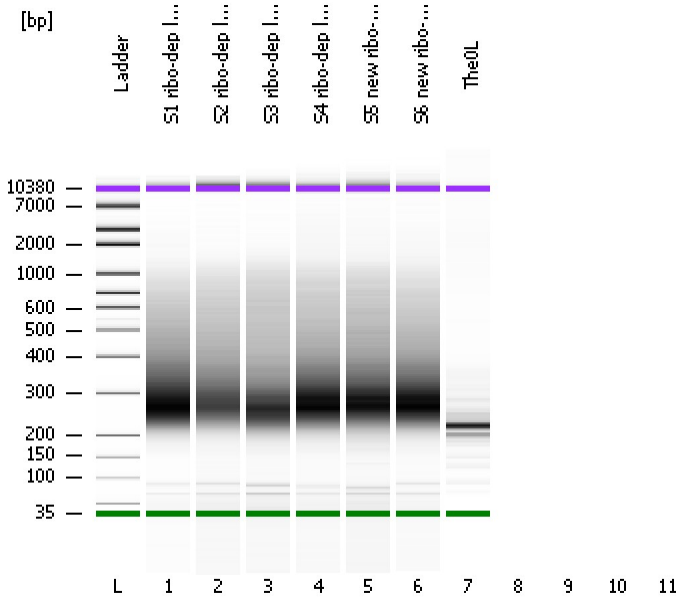


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

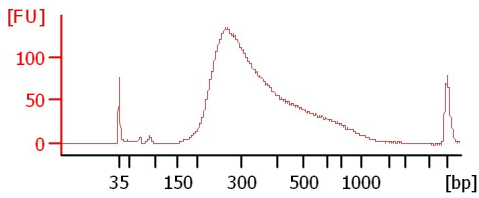
Assay Information:

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

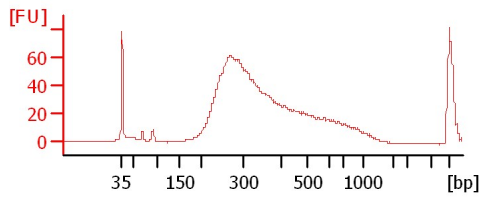
Chip Information:

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

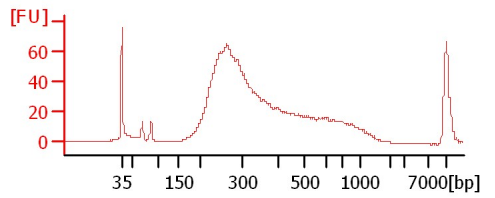
**S1 ribo-dep lib (1:3)**



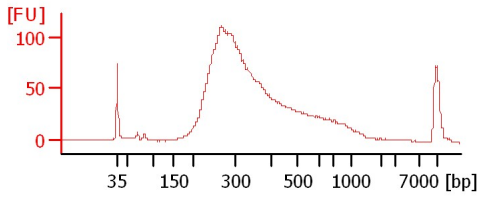
**S2 ribo-dep lib (1:3)**



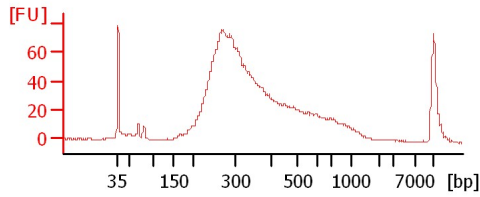
**S3 ribo-dep lib (1:2)**



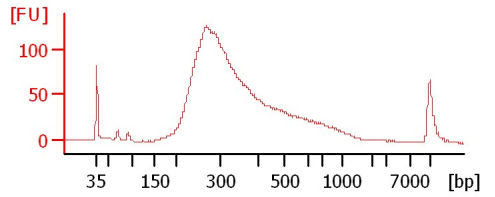
**S4 ribo-dep lib (1:3)**



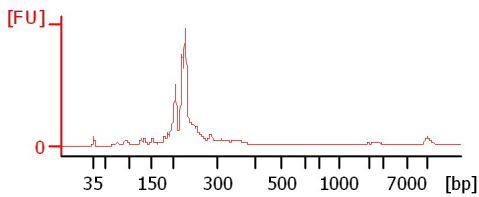
**S5 new ribo-dep lib (1:3)**



**S6 new ribo-dp lib (1:3)**



**The0L**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
S1 ribo-dep lib (1:3)		<input type="checkbox"/>	✓			
S2 ribo-dep lib (1:3)		<input type="checkbox"/>	✓			
S3 ribo-dep lib (1:2)		<input type="checkbox"/>	✓			
S4 ribo-dep lib (1:3)		<input type="checkbox"/>	✓			
S5 new ribo-dep lib (1:3)		<input type="checkbox"/>	✓			
S6 new ribo-dp lib (1:3)		<input type="checkbox"/>	✓			
The0L		<input type="checkbox"/>	✓			
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<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\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 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

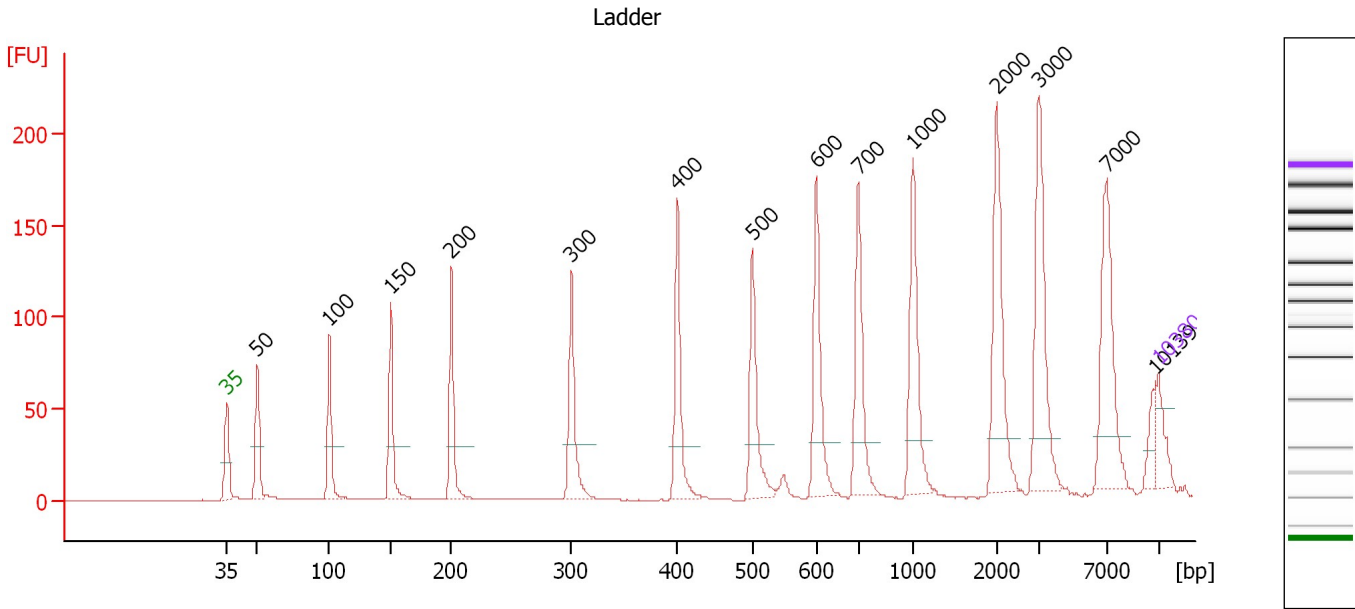
**Ladder**

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\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

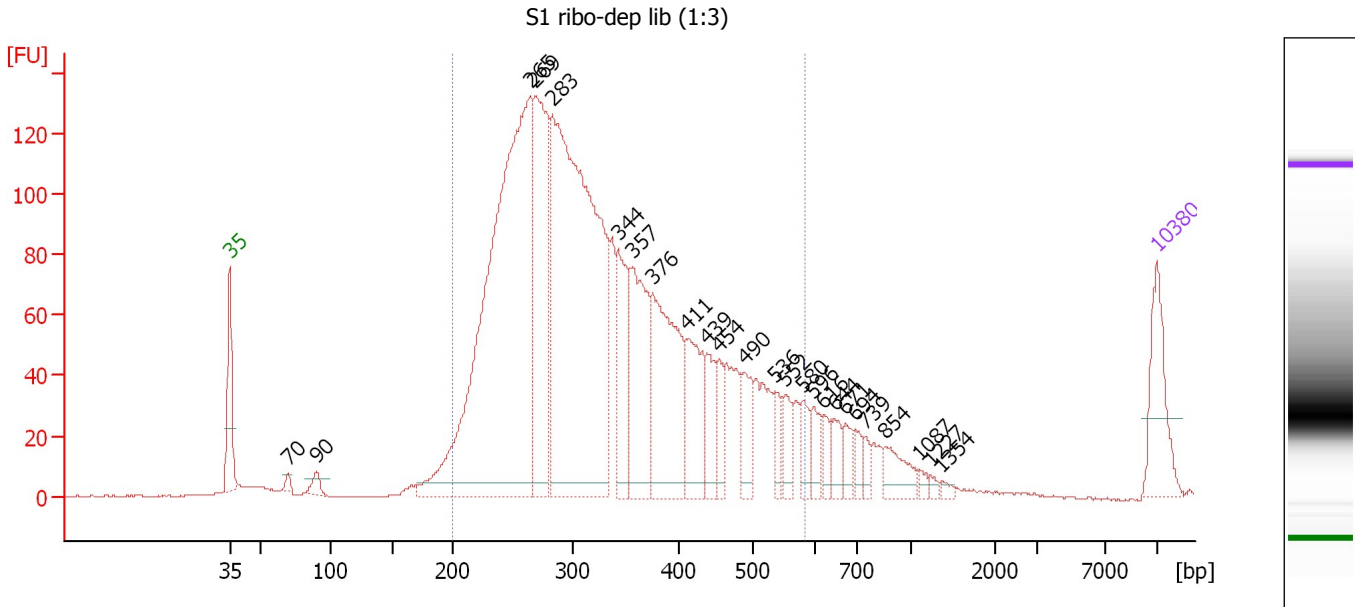
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.28	50	150.00	4,545.5	Ladder Peak
3	50.69	100	150.00	2,272.7	Ladder Peak
4	55.30	150	150.00	1,515.2	Ladder Peak
5	59.87	200	150.00	1,136.4	Ladder Peak
6	68.88	300	150.00	757.6	Ladder Peak
7	76.86	400	150.00	568.2	Ladder Peak
8	82.51	500	150.00	454.5	Ladder Peak
9	87.28	600	150.00	378.8	Ladder Peak
10	90.44	700	150.00	324.7	Ladder Peak
11	94.53	1,000	150.00	227.3	Ladder Peak
12	100.86	2,000	150.00	113.6	Ladder Peak
13	103.98	3,000	150.00	75.8	Ladder Peak
14	109.07	7,000	150.00	32.5	Ladder Peak
15	112.72	10,139	0.00	0.0	
16	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : S1 ribo-dep lib (1:3)**

Number of peaks found: 25                      Corr. Area 1: 2,840.4  
 Noise: 0.2

**Peak table for sample 1 : S1 ribo-dep lib (1:3)**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.43	70	9.57	207.5	
3	49.57	90	20.98	354.9	
4	65.72	265	1,137.74	6,508.7	
5	66.08	269	349.27	1,968.2	
6	67.37	283	1,024.62	5,482.4	
7	72.36	344	140.48	619.4	
8	73.45	357	201.92	856.4	
9	74.94	376	268.38	1,081.7	
10	77.48	411	120.42	444.0	
11	79.05	439	58.89	203.4	
12	79.93	454	39.53	131.8	
13	81.95	490	59.02	182.5	
14	84.20	536	25.71	72.7	
15	85.01	552	38.75	106.3	
16	86.34	580	32.98	86.1	
17	87.06	596	28.80	73.3	
18	87.79	616	23.80	58.5	
19	88.67	644	28.99	68.2	
20	89.52	671	22.33	50.4	
21	90.24	694	19.58	42.8	
22	90.97	739	13.93	28.6	
23	92.54	854	42.00	74.5	
24	95.08	1,087	7.62	10.6	
25	95.96	1,227	5.23	6.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : S1 ribo-dep lib (1:3)

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	96.77	1,354	5.69	6.4	
27	113.00	10,380	75.00	10.9	Upper Marker

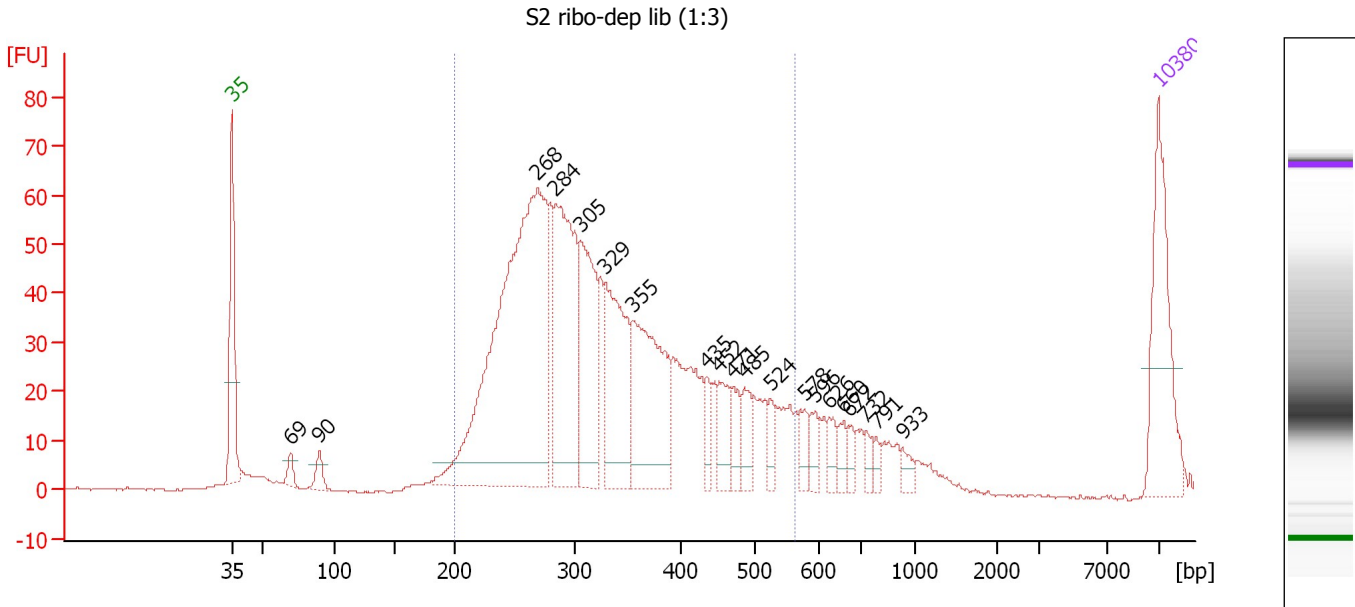
#### Region table for sample 1 : S1 ribo-dep lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	582	334	18,323.3	3,693.47	2,840.4	90	26.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : S2 ribo-dep lib (1:3)**

Number of peaks found: 20      Corr. Area 1: 1,254.8  
 Noise: 0.2

**Peak table for sample 2 : S2 ribo-dep lib (1:3)**


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.39	69	11.02	240.2	
3	49.57	90	15.16	256.3	
4	66.01	268	504.75	2,852.3	
5	67.42	284	194.48	1,038.4	
6	69.28	305	125.00	621.2	
7	71.21	329	125.39	577.2	
8	73.31	355	148.15	631.5	
9	78.83	435	16.26	56.7	
10	79.79	452	29.55	99.1	
11	80.84	471	21.11	68.0	
12	81.69	485	22.64	70.7	
13	83.66	524	12.05	34.8	
14	86.24	578	15.34	40.2	
15	87.09	596	13.73	34.9	
16	88.09	626	12.67	30.7	
17	89.18	660	11.41	26.2	
18	89.55	672	8.45	19.1	
19	90.88	732	7.91	16.4	
20	91.68	791	6.45	12.4	
21	93.62	933	8.41	13.7	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**

... Region table for sample 2 : S2 ribo-dep lib (1:3)

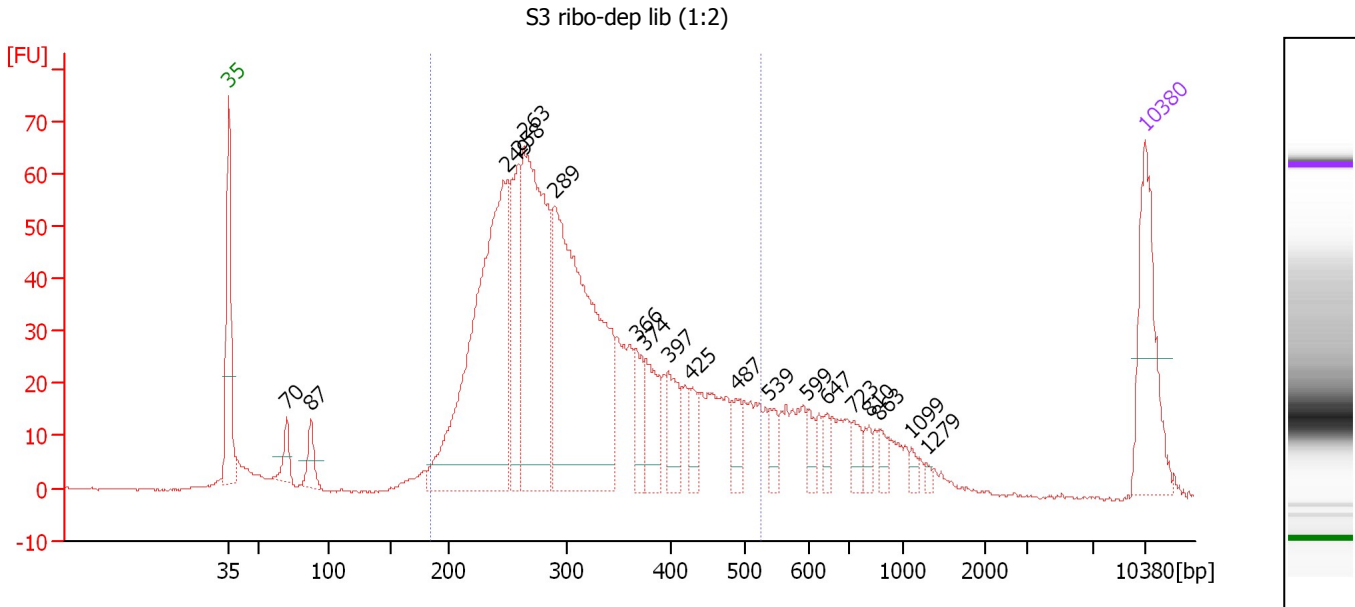
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	562	334	7,053.3	1,431.32	 1,254.8	87	25.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : S3 ribo-dep lib (1:2)**

Number of peaks found: 19                      Corr. Area 1: 1,254.4  
 Noise: 0.2

**Peak table for sample 3 : S3 ribo-dep lib (1:2)**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.44	70	25.01	541.9	
3	49.27	87	29.35	511.8	
4	64.27	249	444.02	2,703.9	
5	65.12	258	109.41	641.8	
6	65.57	263	316.48	1,821.4	
7	67.90	289	423.09	2,217.9	
8	74.13	366	36.41	150.8	
9	74.82	374	53.67	217.2	
10	76.61	397	42.26	161.3	
11	78.24	425	23.04	82.2	
12	81.79	487	23.08	71.8	
13	84.36	539	17.38	48.9	
14	87.25	599	14.34	36.3	
15	88.76	647	12.58	29.5	
16	90.75	723	14.47	30.3	
17	91.93	810	10.95	20.5	
18	92.67	863	11.57	20.3	
19	95.15	1,099	5.76	7.9	
20	96.29	1,279	3.35	4.0	
21	113.00	10,380	75.00	10.9	Upper Marker

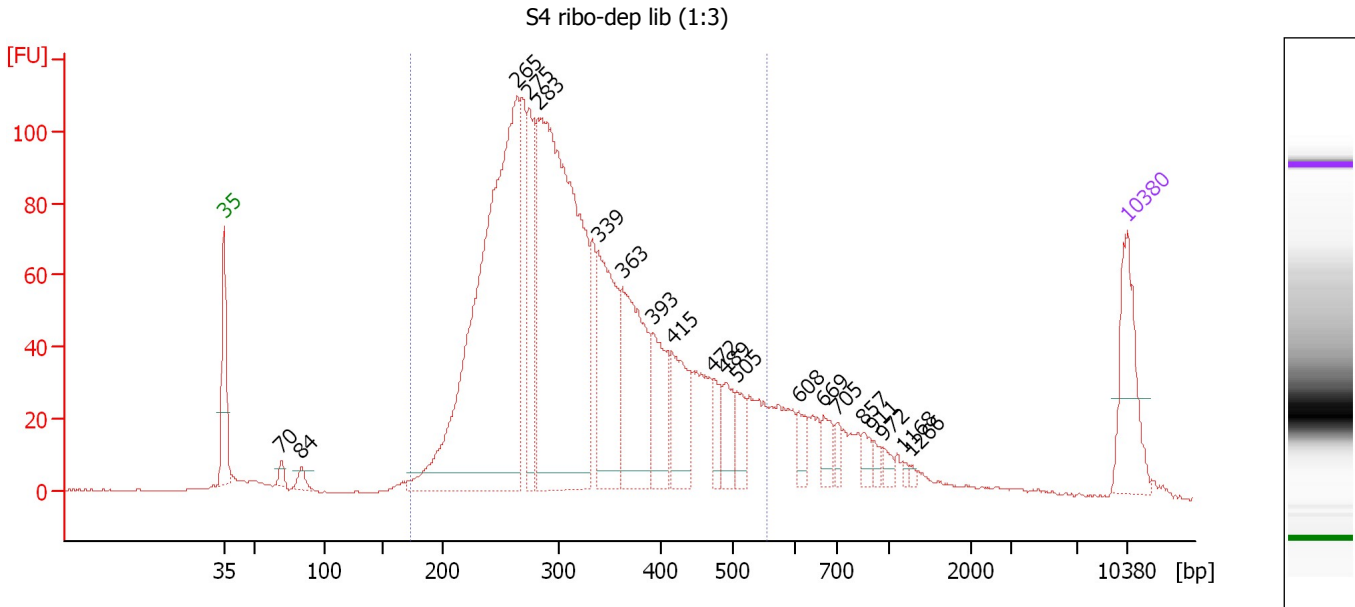
**Region table for sample 3 : S3 ribo-dep lib (1:2)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
184	524	314	8,862.3	1,695.83	1,254.4	81	25.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : S4 ribo-dep lib (1:3)**

Number of peaks found: 20      Corr. Area 1: 2,246.1  
 Noise: 0.2

**Peak table for sample 4 : S4 ribo-dep lib (1:3)**


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.42	70	11.99	260.3	
3	48.95	84	14.77	266.6	
4	65.70	265	829.20	4,746.9	
5	66.61	275	134.23	740.2	
6	67.35	283	745.13	3,989.1	
7	71.98	339	195.34	873.4	
8	73.89	363	197.30	824.1	
9	76.28	393	88.57	341.7	
10	77.73	415	86.19	314.3	
11	80.91	472	26.51	85.1	
12	81.87	489	40.19	124.6	
13	82.73	505	31.88	95.7	
14	87.53	608	21.43	53.4	
15	89.47	669	23.59	53.4	
16	90.51	705	12.24	26.3	
17	92.57	857	13.08	23.1	
18	93.32	911	9.00	15.0	
19	94.15	972	8.19	12.8	
20	95.59	1,168	3.47	4.5	
21	96.21	1,266	2.79	3.3	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**

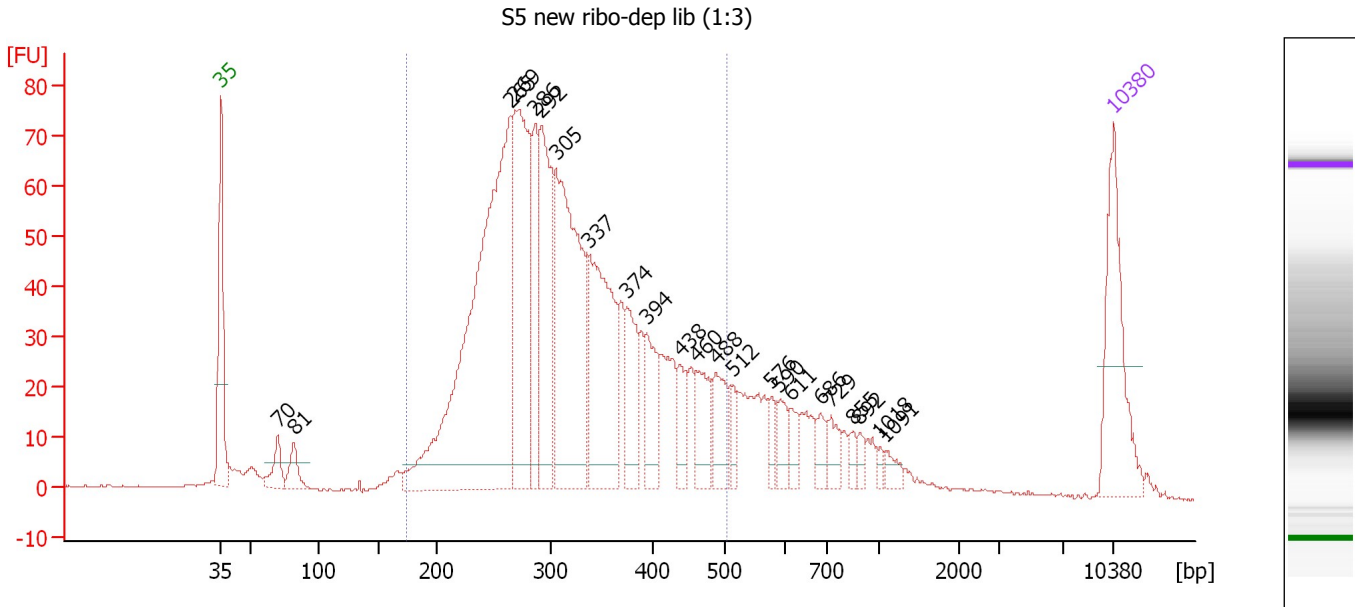
... Region table for sample 4 : S4 ribo-dep lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
174	554	326	14,104.4	2,793.95	 2,246.1	87	25.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : S5 new ribo-dep lib (1:3)**

Number of peaks found: 23                      Corr. Area 1: 1,500.6  
 Noise: 0.2

**Peak table for sample 5 : S5 new ribo-dep lib (1:3)**


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.43	70	26.92	583.8	
3	48.69	81	24.87	462.6	
4	65.71	265	523.46	2,995.8	
5	66.08	269	224.81	1,266.6	
6	67.63	286	75.63	400.5	
7	68.13	292	146.89	763.1	
8	69.26	305	259.21	1,288.9	
9	71.85	337	168.68	757.9	
10	74.78	374	58.23	235.9	
11	76.41	394	45.54	175.0	
12	79.00	438	27.52	95.2	
13	80.26	460	43.09	141.9	
14	81.81	488	41.65	129.4	
15	83.10	512	15.86	46.9	
16	86.15	576	12.77	33.6	
17	86.78	590	18.87	48.5	
18	87.62	611	15.41	38.2	
19	90.00	686	16.13	35.6	
20	90.84	729	16.29	33.8	
21	92.55	855	7.48	13.3	
22	93.05	892	7.54	12.8	
23	94.64	1,018	4.35	6.5	
24	95.10	1,091	8.29	11.5	
25	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**

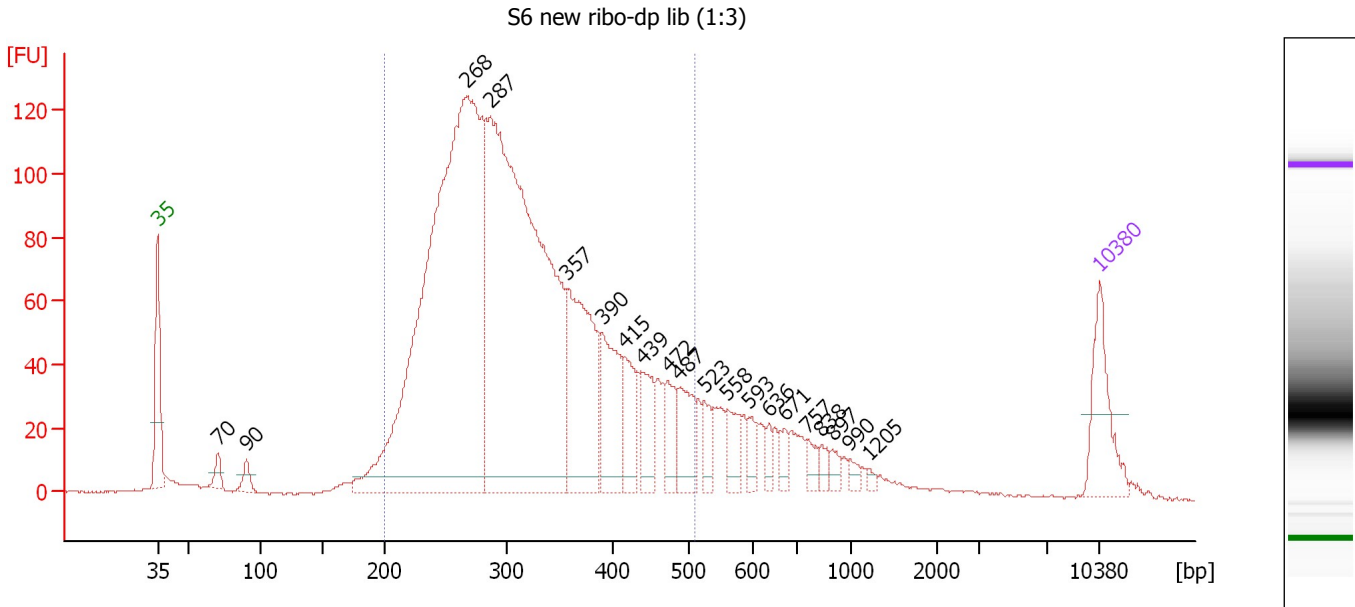
... Region table for sample 5 : S5 new ribo-dep lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
175	504	318	9,243.6	1,809.66	 1,500.6	81	22.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : S6 new ribo-dp lib (1:3)**

Number of peaks found: 20                      Corr. Area 1: 2,386.2  
 Noise: 0.1

**Peak table for sample 6 : S6 new ribo-dp lib (1:3)**


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.48	70	21.79	469.5	
3	49.60	90	20.84	351.3	
4	65.97	268	1,392.68	7,884.2	
5	67.74	287	1,191.10	6,280.7	
6	73.41	357	254.62	1,081.3	
7	76.03	390	123.16	478.9	
8	77.68	415	71.13	259.9	
9	79.04	439	57.94	200.2	
10	80.94	472	47.51	152.4	
11	81.79	487	68.45	212.9	
12	83.60	523	31.23	90.5	
13	85.25	558	38.92	105.7	
14	86.95	593	20.87	53.3	
15	88.43	636	14.93	35.5	
16	89.53	671	19.61	44.3	
17	91.22	757	18.06	36.1	
18	92.32	838	12.88	23.3	
19	93.12	897	12.30	20.8	
20	94.39	990	9.10	13.9	
21	95.83	1,205	5.35	6.7	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**

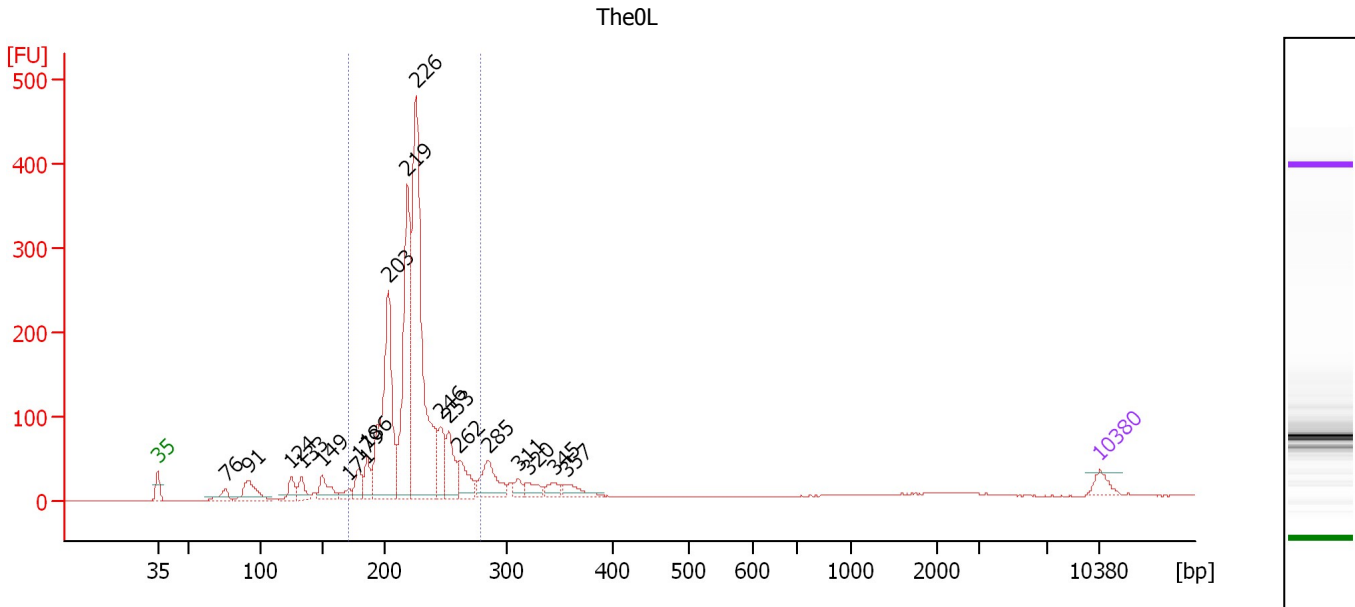
... Region table for sample 6 : S6 new ribo-dp lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	509	319	16,562.0	3,273.62	 2,386.2	83	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
 Modified: 3/14/2014 10:41:22 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : The0L**

Number of peaks found: 19                      Corr. Area 1: 1,839.5  
 Noise: 0.2

**Peak table for sample 7 : The0L**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.05	76	112.22	2,250.3	
3	49.76	91	270.73	4,488.9	
4	52.93	124	129.15	1,575.1	
5	53.70	133	136.71	1,562.2	
6	55.24	149	200.05	2,030.1	
7	57.25	171	76.49	676.5	
8	57.93	179	159.97	1,355.6	
9	58.57	186	178.91	1,458.7	
10	60.16	203	1,471.77	10,974.0	
11	61.57	219	1,496.90	10,362.7	
12	62.21	226	2,670.25	17,903.2	
13	64.01	246	311.29	1,917.9	
14	64.65	253	325.83	1,951.1	
15	65.42	262	245.64	1,422.8	
16	67.56	285	329.27	1,748.6	
17	69.78	311	73.58	358.1	
18	70.51	320	101.36	479.3	
19	72.44	345	87.78	386.0	
20	73.46	357	112.23	475.7	
21	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 7 : The0L**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
171	279	223	47,444.7	6,931.21	1,839.5	79	8.9



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-14\2014-03-14\_001.xad

Created: 3/14/2014 9:41:35 AM  
Modified: 3/14/2014 10:41:22 AM

**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.