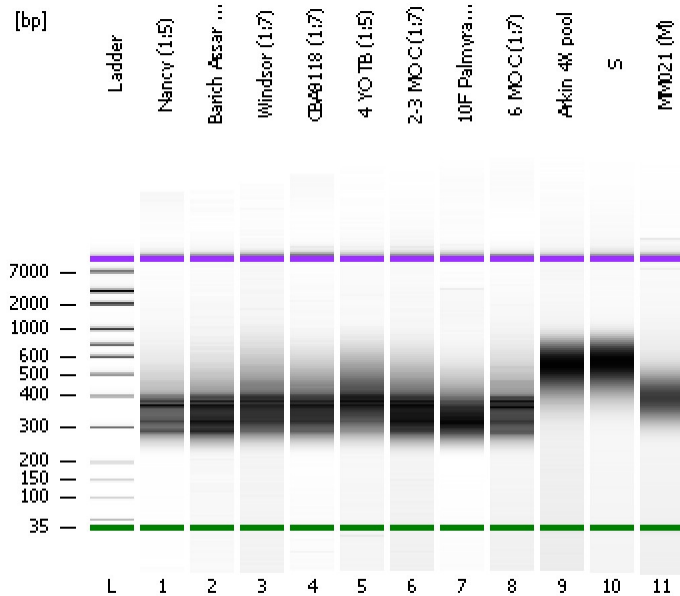


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
Modified: 10/14/2014 5:08:43 PM

Electrophoresis File Run Summary



Instrument Information:

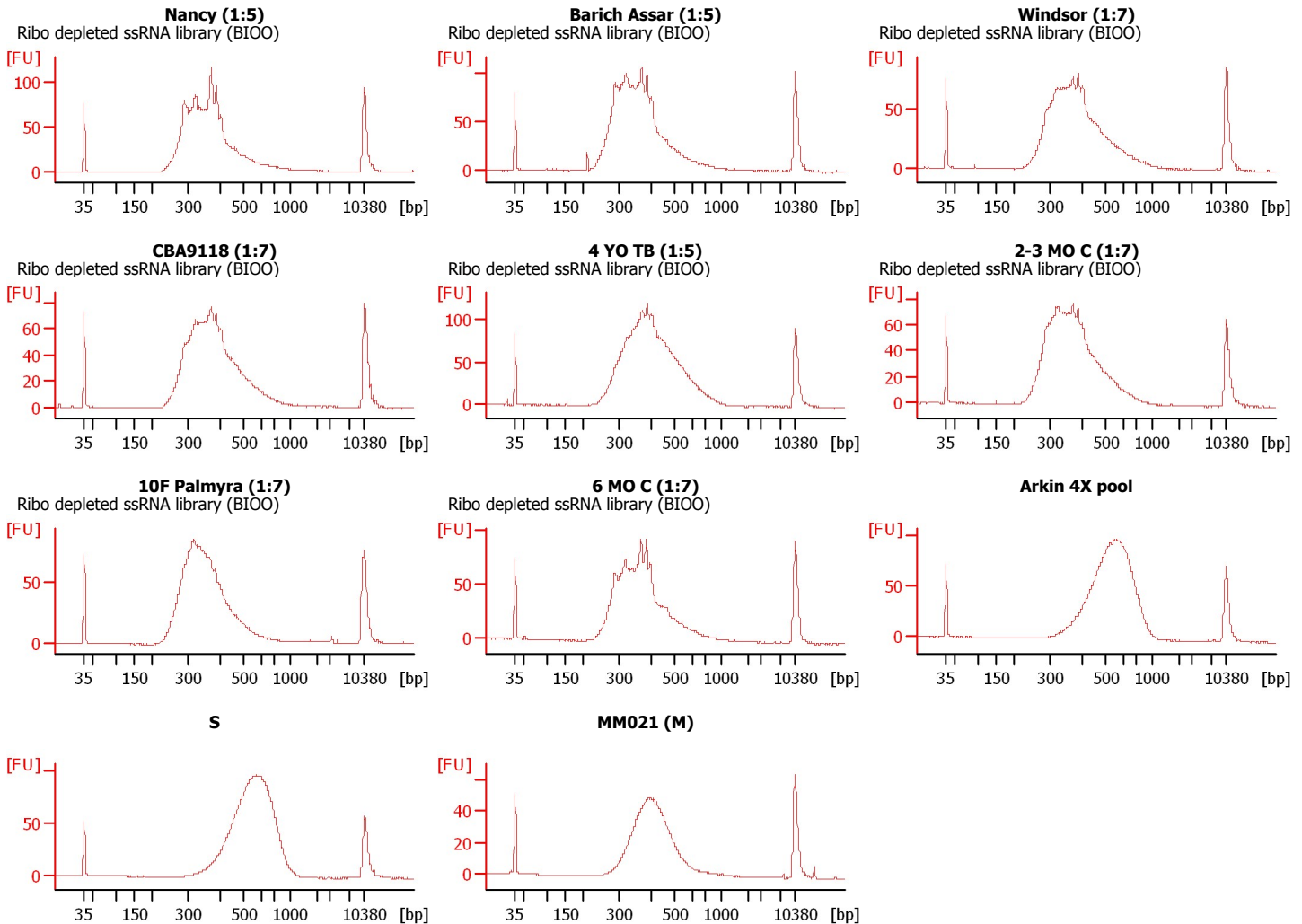
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nancy (1:5)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
Barich Assar (1:5)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
Windsor (1:7)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
CBA9118 (1:7)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
4 YO TB (1:5)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
2-3 MO C (1:7)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
10F Palmyra (1:7)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
6 MO C (1:7)	Ribo depleted ssRNA library (BIOO)	<input type="checkbox"/>	✓			
Arkin 4X pool		<input type="checkbox"/>	✓			
S		<input type="checkbox"/>	✓			
MM021 (M)		<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\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
Modified: 10/14/2014 5:08:43 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

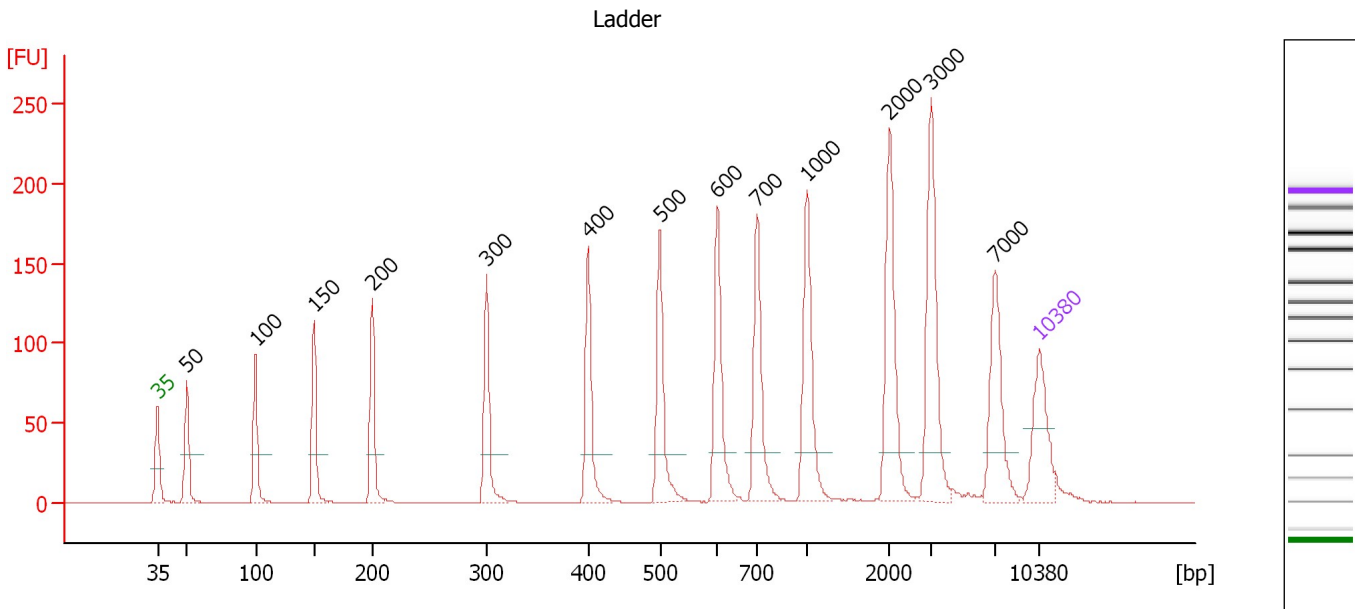
Ladder

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\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

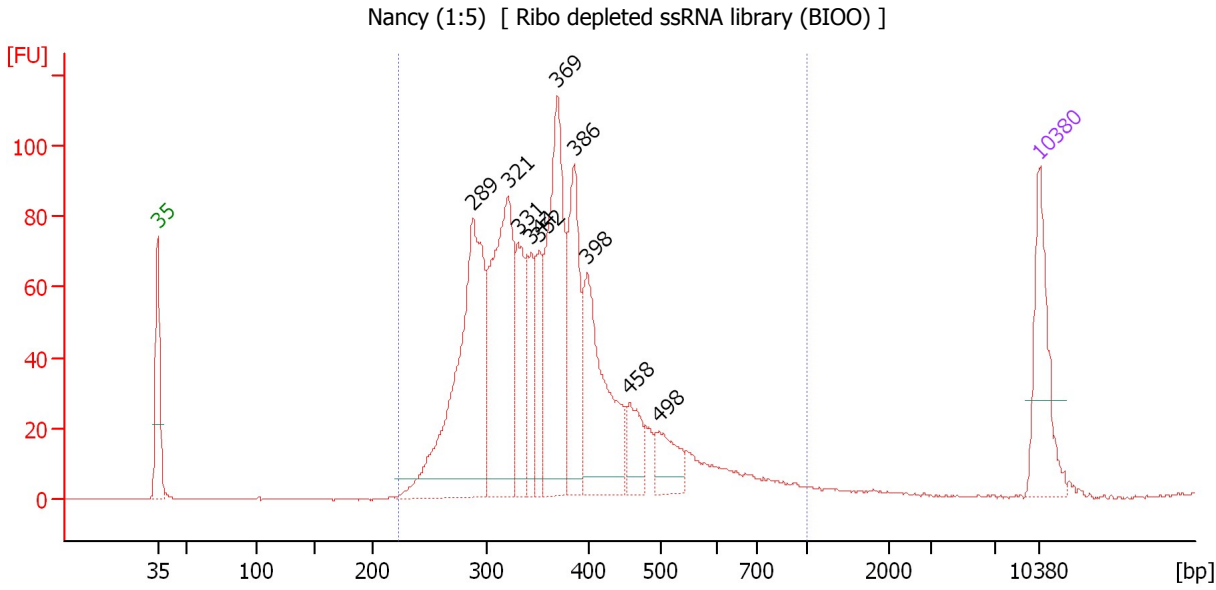
Peak table for Ladder

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\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Nancy (1:5)

Number of peaks found: 10 Corr. Area 1: 1,456.7
 Noise: 0.2

Peak table for sample 1 : Nancy (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	354.78	1,862.6	
3	321	254.90	1,202.7	
4	331	90.06	412.4	
5	344	61.48	270.7	
6	352	60.80	261.6	
7	369	229.42	941.4	
8	386	128.58	504.1	
9	398	173.71	660.5	
10	458	44.56	147.5	
11	498	44.25	134.7	
12	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : Nancy (1:5)

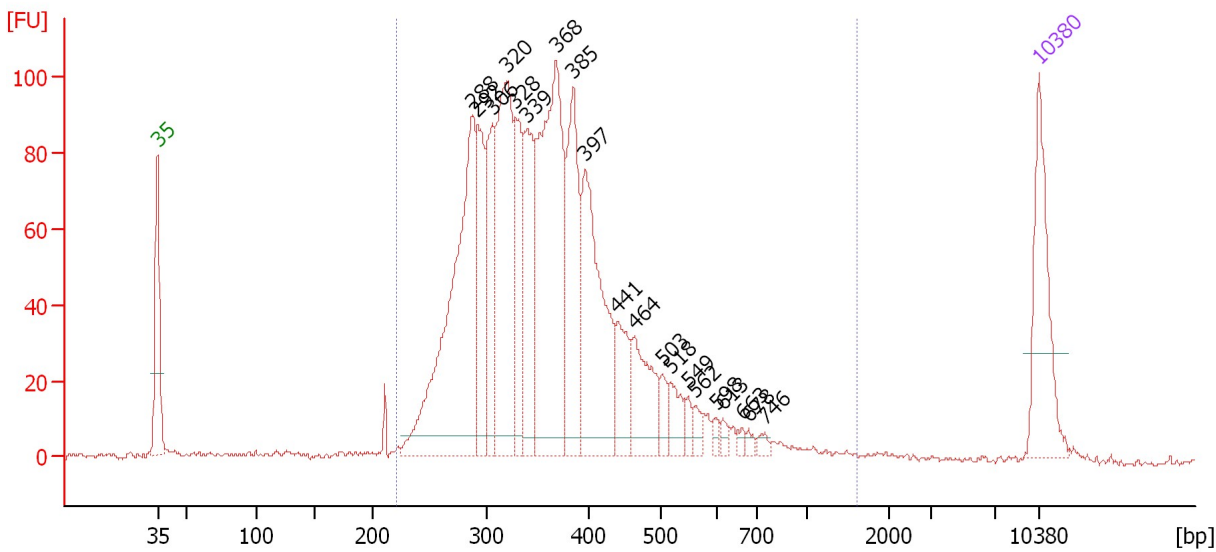
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
222	371	1,000	1,456.7	100	24.5	1,529.70	6,649.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

Barich Assar (1:5) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 2 : Barich Assar (1:5)

Number of peaks found: 20 Corr. Area 1: 1,824.8
 Noise: 0.6

Peak table for sample 2 : Barich Assar (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	288	336.11	1,770.0	
3	292	94.61	490.3	
4	306	98.38	487.2	
5	320	208.61	988.3	
6	328	95.55	440.7	
7	339	107.34	479.1	
8	368	285.61	1,174.8	
9	385	135.17	531.8	
10	397	176.38	672.7	
11	441	48.57	167.0	
12	464	64.38	210.3	
13	503	16.47	49.6	
14	518	23.39	68.5	
15	549	10.22	28.2	
16	562	10.79	29.1	
17	598	5.89	14.9	
18	613	6.59	16.3	
19	663	4.47	10.2	
20	678	4.65	10.4	
21	746	5.36	10.9	
22	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : Barich Assar (1:5)

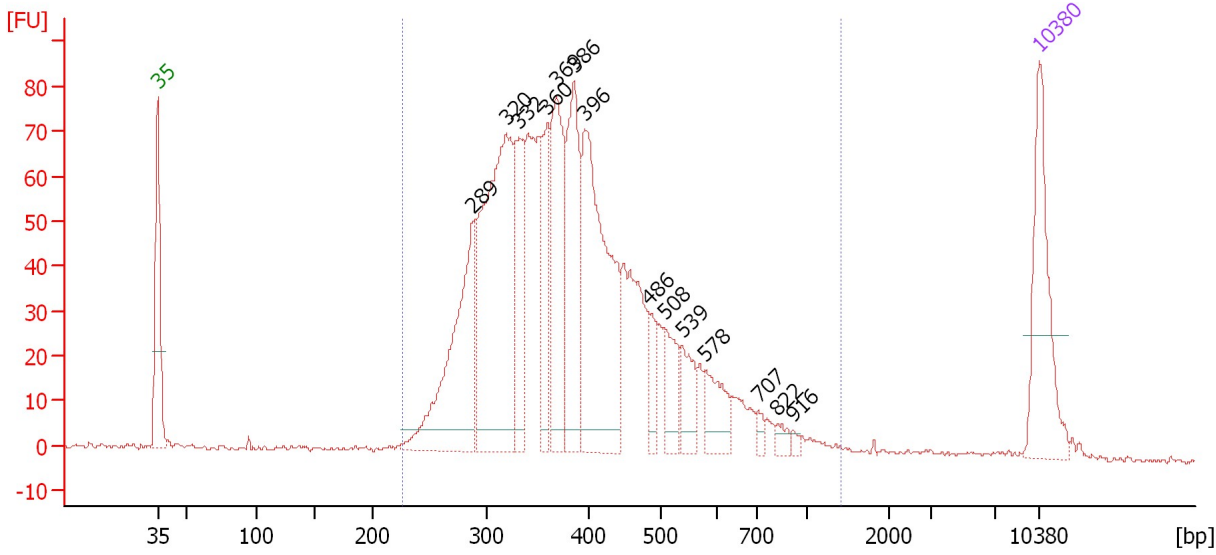
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
221	377	1,617	1,824.8	96	32.2	1,820.73	7,962.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

Windsor (1:7) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 3 : Windsor (1:7)

Number of peaks found: 14 Corr. Area 1: 1,535.1
 Noise: 0.5

Peak table for sample 3 : Windsor (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	174.50	915.8	
3	320	291.70	1,382.6	
4	332	79.56	363.1	
5	360	67.40	284.1	
6	369	122.90	504.8	
7	386	118.24	464.2	
8	396	215.70	824.3	
9	486	22.69	70.8	
10	508	37.60	112.1	
11	539	32.63	91.6	
12	578	35.21	92.3	
13	707	6.57	14.1	
14	822	7.15	13.2	
15	916	3.42	5.7	
16	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : Windsor (1:7)

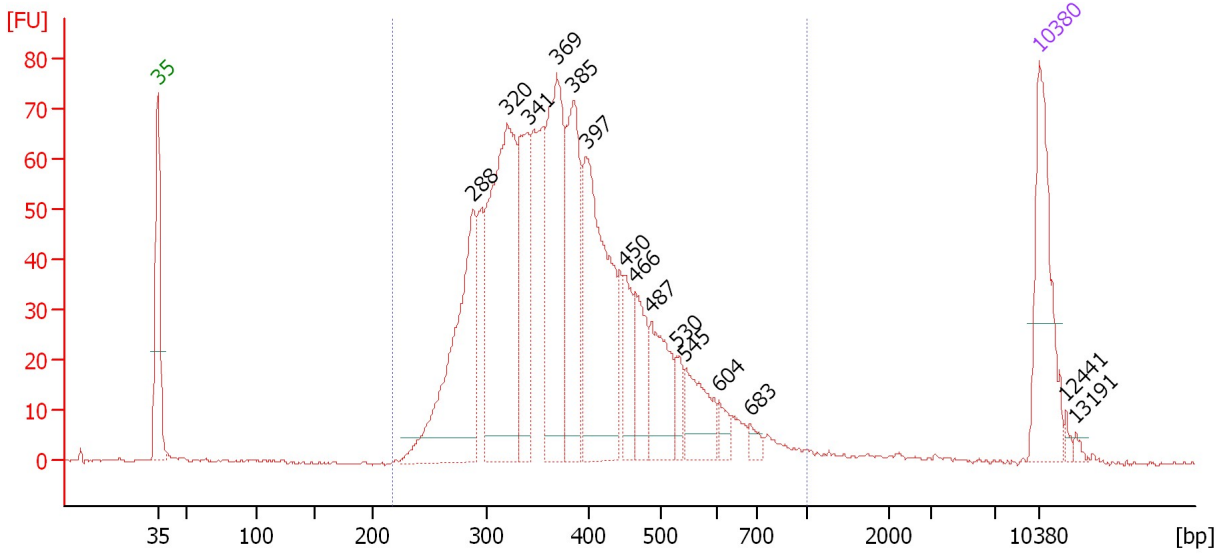
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
227	404	1,409	1,535.1	96	31.9	1,569.31	6,461.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

CBA9118 (1:7) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 4 : CBA9118 (1:7)

Number of peaks found: 15 Corr. Area 1: 1,329.8
 Noise: 0.3

Peak table for sample 4 : CBA9118 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	288	195.56	1,028.8	
3	320	264.80	1,253.1	
4	341	99.39	442.2	
5	369	163.68	671.6	
6	385	120.64	475.0	
7	397	188.47	718.6	
8	450	40.54	136.4	
9	466	44.50	144.8	
10	487	64.09	199.4	
11	530	15.22	43.5	
12	545	45.43	126.4	
13	604	11.71	29.4	
14	683	7.55	16.7	
15	10,380	75.00	10.9	Upper Marker
16	12,441	0.00	0.0	
17	13,191	0.00	0.0	

Region table for sample 4 : CBA9118 (1:7)

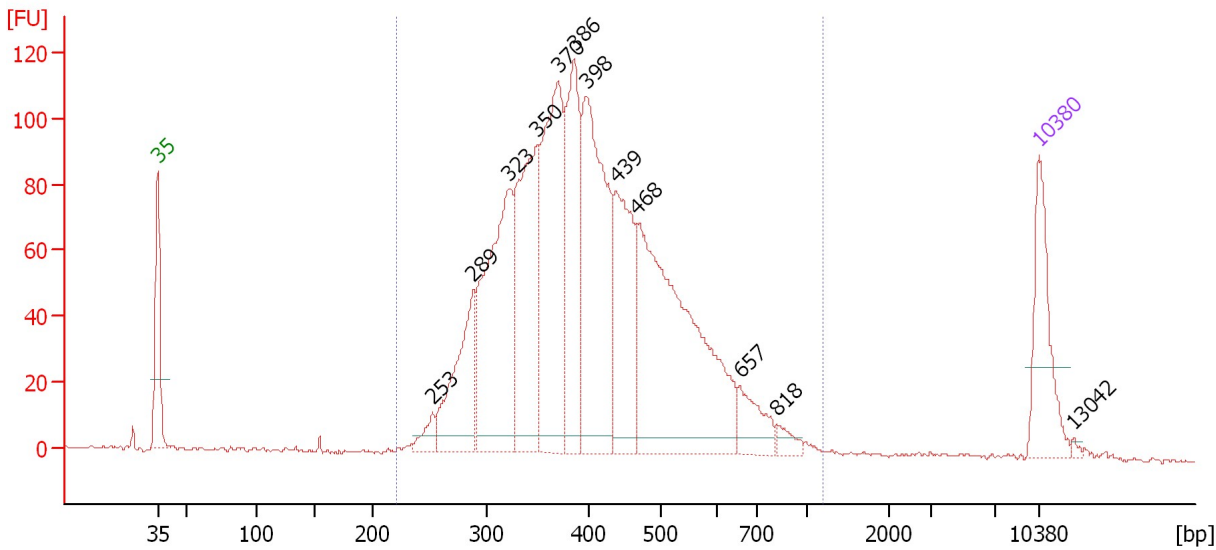
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
218	388	1,000	1,329.8	99	25.1	1,471.66	6,157.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

4 YO TB (1:5) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 5 : 4 YO TB (1:5)

Number of peaks found: 12 Corr. Area 1: 2,143.6
 Noise: 0.5

Peak table for sample 5 : 4 YO TB (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	20.88	125.1	
3	289	134.32	704.6	
4	323	284.54	1,335.5	
5	350	234.11	1,013.1	
6	370	272.59	1,115.7	
7	386	178.71	701.6	
8	398	288.55	1,099.9	
9	439	167.32	577.4	
10	468	408.77	1,324.2	
11	657	44.08	101.7	
12	818	13.48	25.0	
13	10,380	75.00	10.9	Upper Marker
14	13,042	0.00	0.0	

Region table for sample 5 : 4 YO TB (1:5)

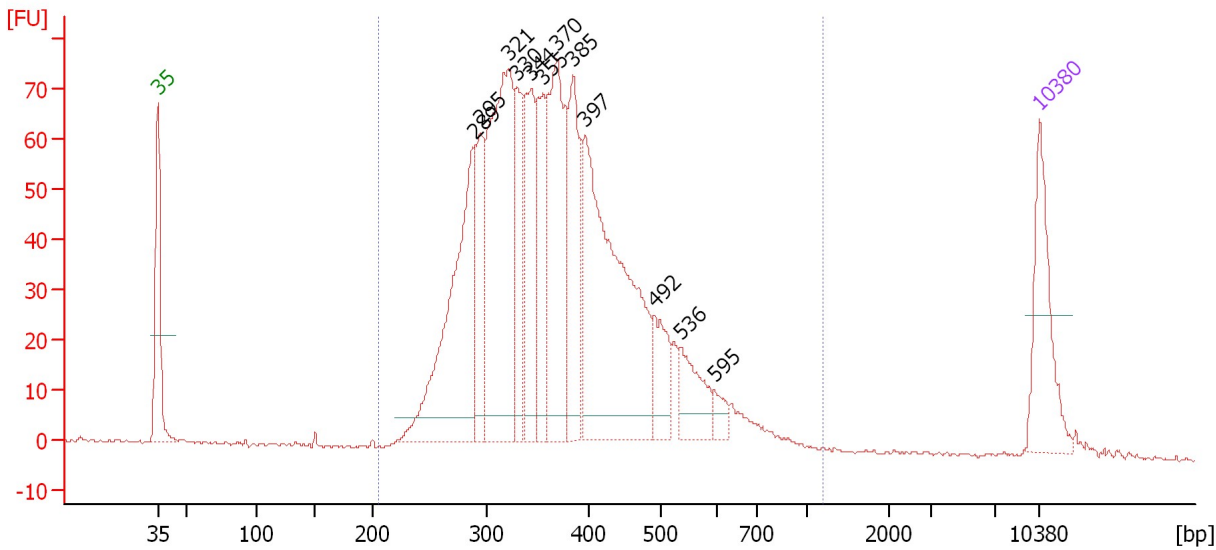
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
222	419	1,198	2,143.6	98	27.4	2,070.97	8,147.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

2-3 MO C (1:7) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 6 : 2-3 MO C (1:7)

Number of peaks found: 12 Corr. Area 1: 1,477.7
 Noise: 0.3

Peak table for sample 6 : 2-3 MO C (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	282.96	1,481.6	
3	295	88.51	454.8	
4	321	321.96	1,518.7	
5	330	93.92	431.5	
6	344	122.22	538.6	
7	355	99.33	423.4	
8	370	197.89	811.3	
9	385	119.47	470.3	
10	397	349.24	1,332.5	
11	492	53.25	163.9	
12	536	53.25	150.5	
13	595	13.17	33.5	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : 2-3 MO C (1:7)

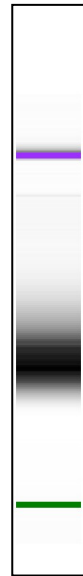
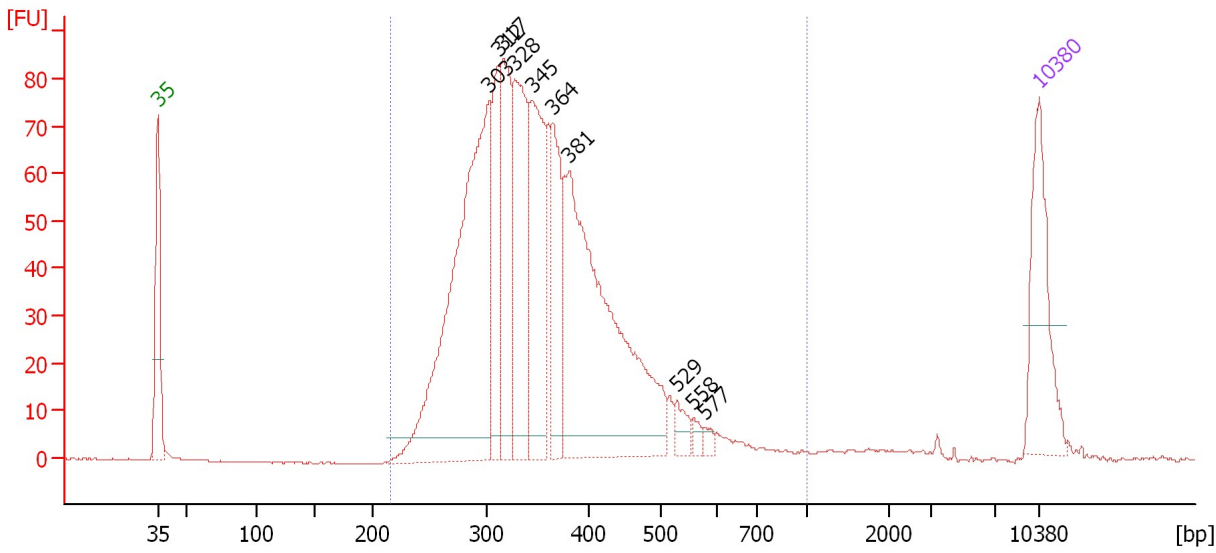
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
205	383	1,203	1,477.7	98	26.7	1,977.00	8,432.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

10F Palmyra (1:7) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 7 : 10F Palmyra (1:7)

Number of peaks found: 10 Corr. Area 1: 1,365.3
 Noise: 0.2

Peak table for sample 7 : 10F Palmyra (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	303	421.80	2,111.9	
3	312	92.91	451.4	
4	317	128.24	613.2	
5	328	168.02	776.2	
6	345	146.25	642.9	
7	364	96.77	402.3	
8	381	371.93	1,478.3	
9	529	15.44	44.2	
10	558	6.92	18.8	
11	577	5.53	14.5	
12	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : 10F Palmyra (1:7)

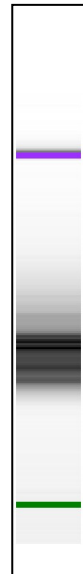
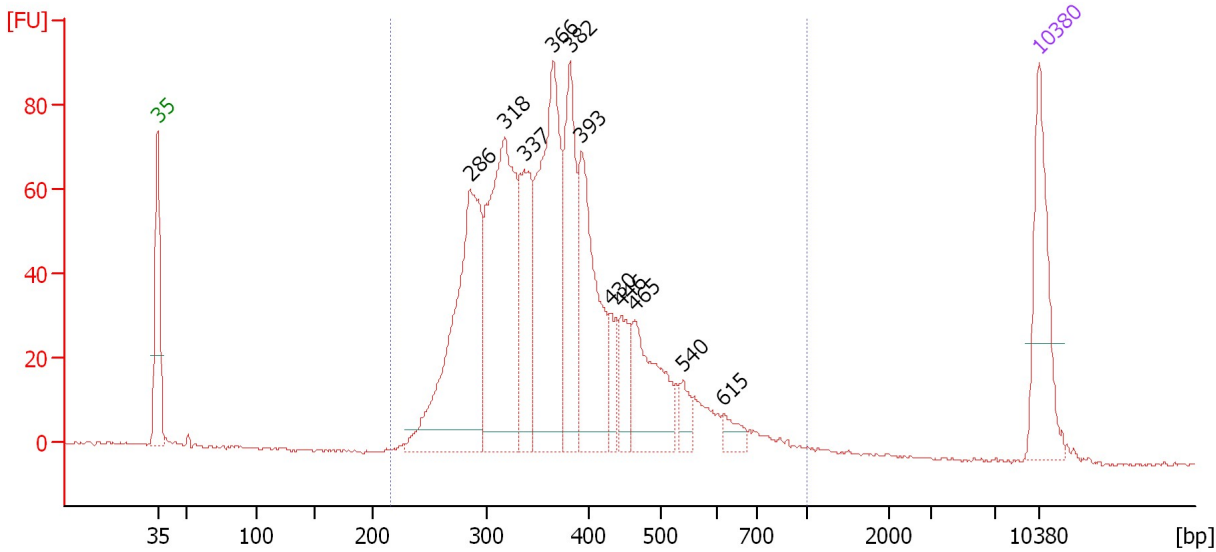
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
216	361	1,000	1,365.3	98	23.8	1,522.61	6,773.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...

6 MO C (1:7) [Ribo depleted ssRNA library (BIOO)]



Overall Results for sample 8 : 6 MO C (1:7)

Number of peaks found: 11 Corr. Area 1: 1,362.5
 Noise: 0.4

Peak table for sample 8 : 6 MO C (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	284.43	1,507.4	
3	318	295.62	1,407.9	
4	337	104.40	469.5	
5	366	240.79	997.4	
6	382	128.96	511.4	
7	393	154.00	593.2	
8	430	26.71	94.1	
9	446	35.60	120.9	
10	465	93.68	305.3	
11	540	16.46	46.2	
12	615	14.75	36.3	
13	10,380	75.00	10.9	Upper Marker

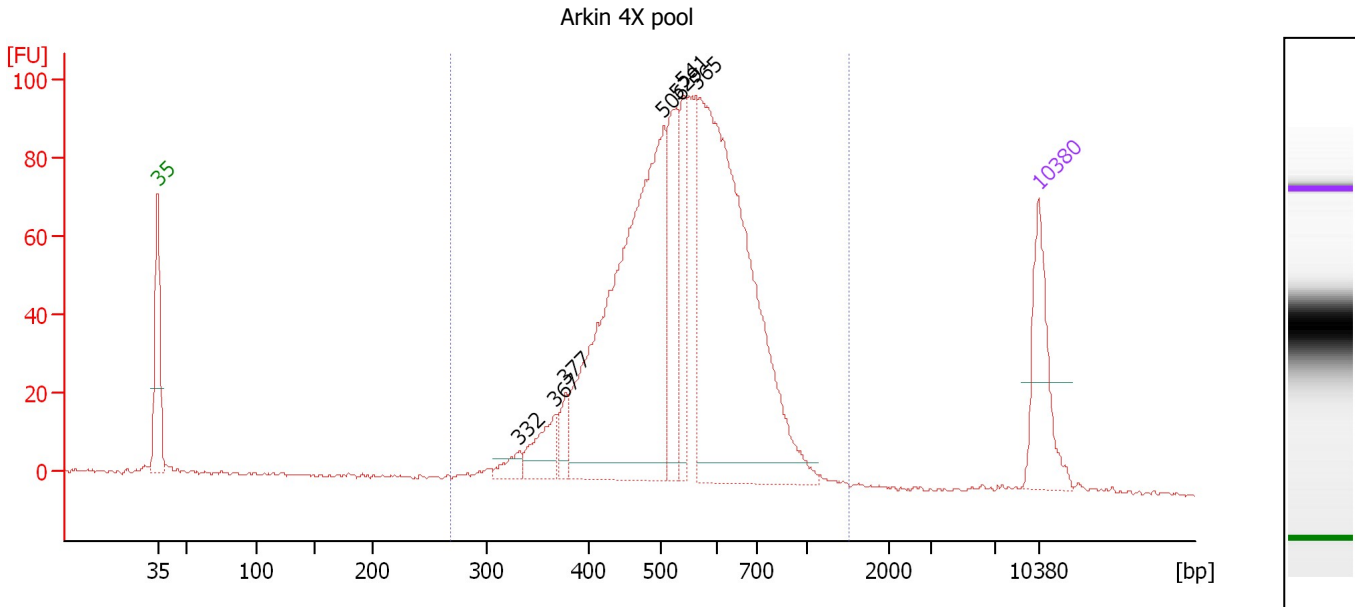
Region table for sample 8 : 6 MO C (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
216	378	1,000	1,362.5	99	25.0	1,443.43	6,183.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : Arkin 4X pool

Number of peaks found: 7 Corr. Area 1: 1,450.3
 Noise: 0.5

Peak table for sample 9 : Arkin 4X pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	18.66	85.1	
3	367	49.92	206.3	
4	377	24.72	99.3	
5	506	568.77	1,701.6	
6	529	118.81	340.4	
7	541	82.56	231.2	
8	565	588.11	1,578.2	
9	10,380	75.00	10.9	Upper Marker

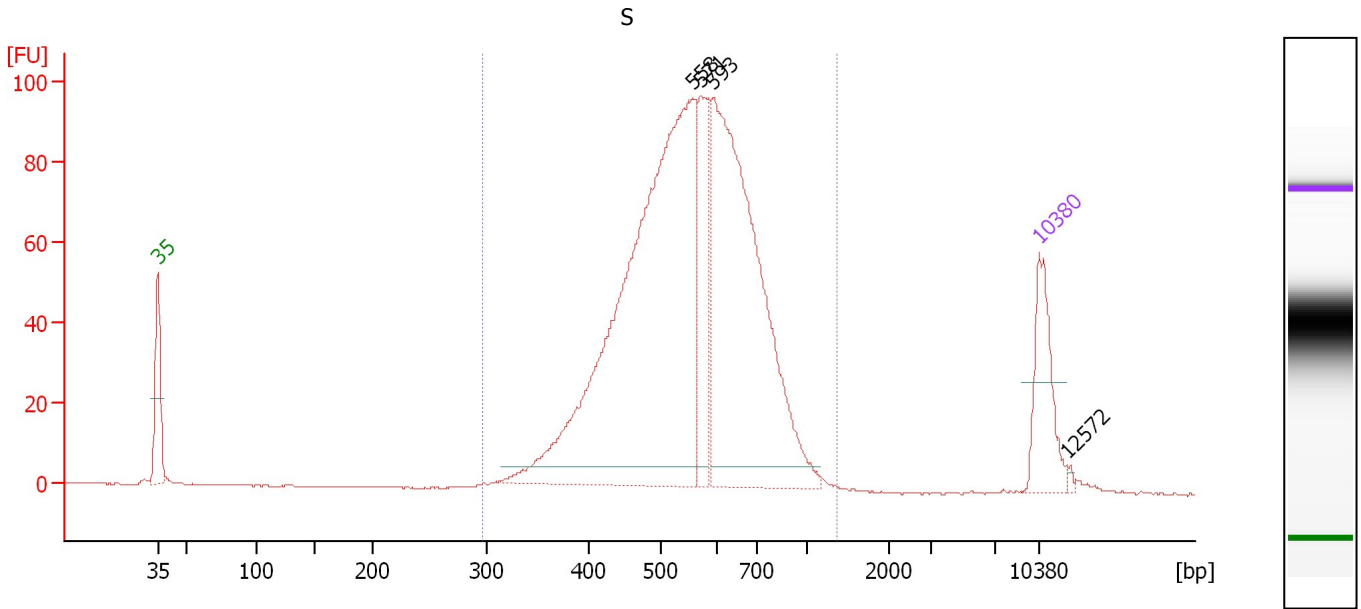
Region table for sample 9 : Arkin 4X pool

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
268	549	1,500	1,450.3	96	23.4	1,596.25	4,707.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : S

Number of peaks found: 4
 Noise: 0.1
 Corr. Area 1: 1,383.6

Peak table for sample 10 : S

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	558	895.00	2,432.0	
3	571	134.70	357.3	
4	593	585.47	1,496.8	
5	10,380	75.00	10.9	Upper Marker
6	12,572	0.00	0.0	

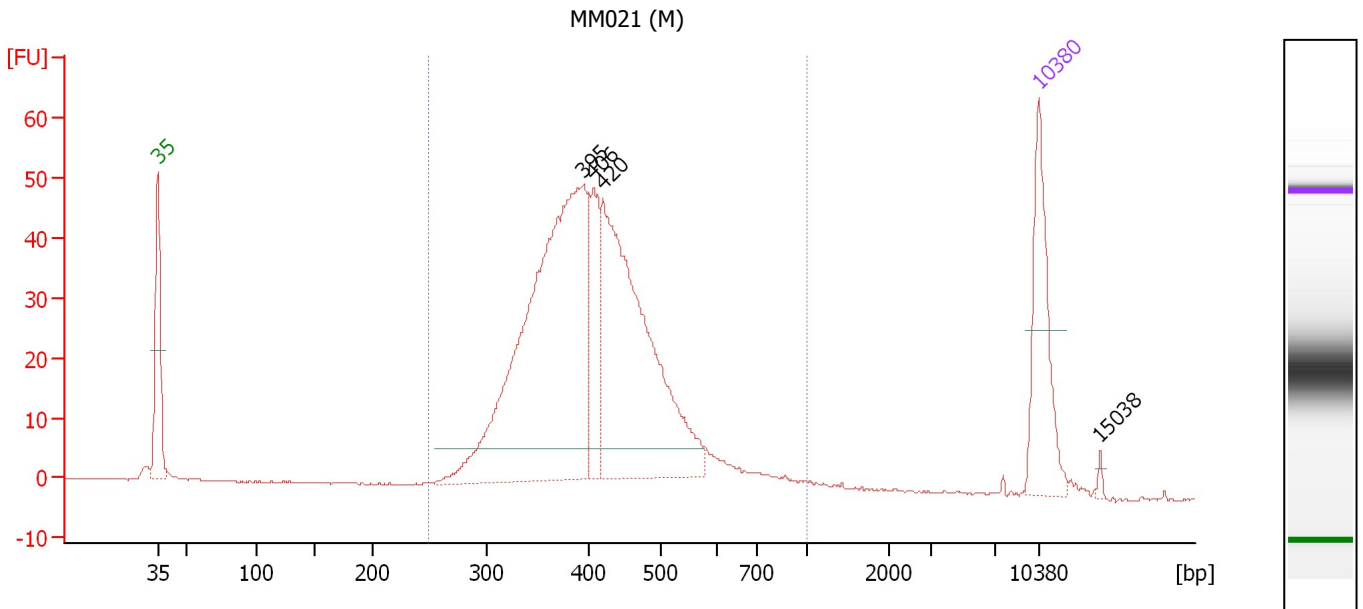
Region table for sample 10 : S

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
297	568	1,374	1,383.6	97	22.8	1,769.86	5,027.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MM021 (M)

Number of peaks found: 4 Corr. Area 1: 715.9
 Noise: 0.1

Peak table for sample 11 : MM021 (M)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	395	493.10	1,891.7	
3	406	73.38	273.5	
4	420	334.57	1,206.3	
5	10,380	75.00	10.9	Upper Marker
6	15,038	0.00	0.0	

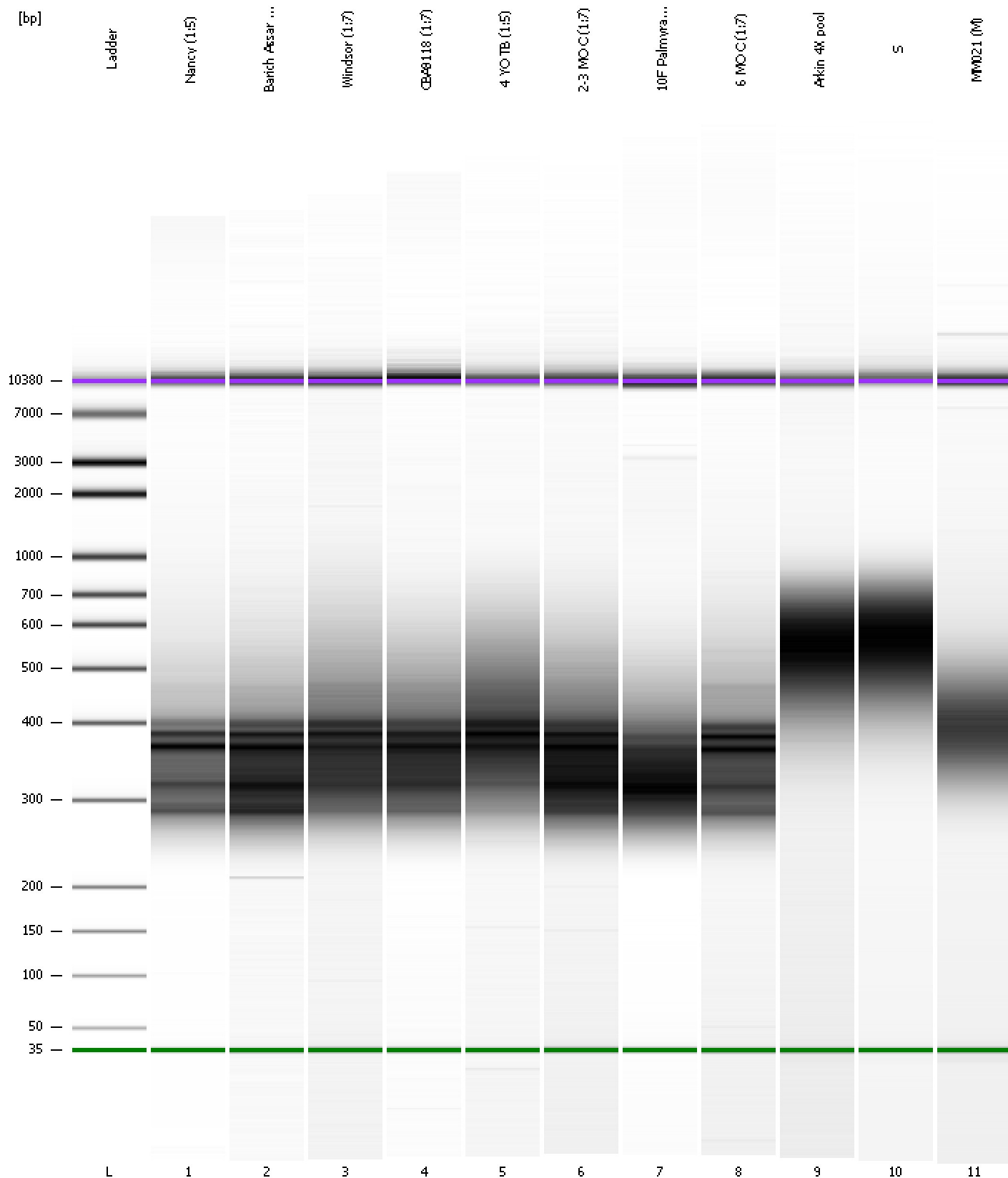
Region table for sample 11 : MM021 (M)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
249	420	1,000	715.9	96	21.7	1,023.67	3,878.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
Modified: 10/14/2014 5:08:43 PM

Gel Image

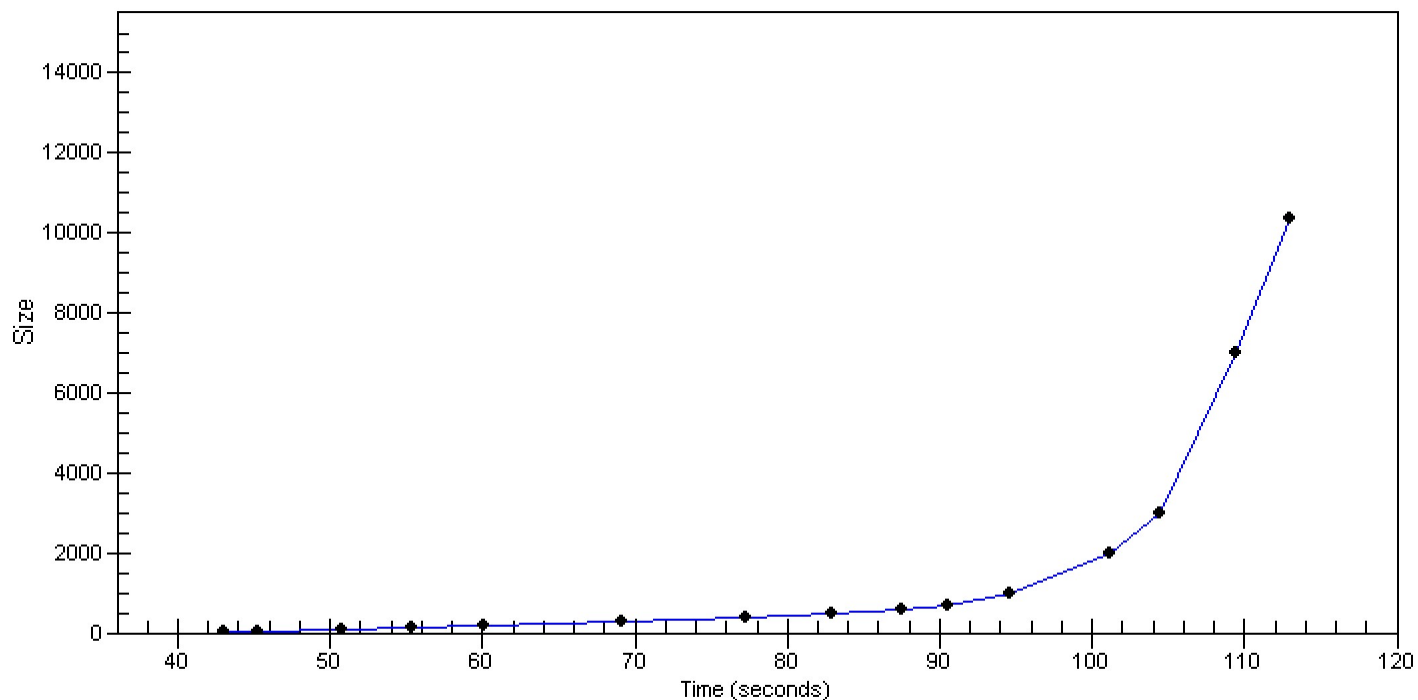


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
Modified: 10/14/2014 5:08:43 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad

Created: 10/14/2014 4:26:11 PM
 Modified: 10/14/2014 5:08:43 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		10/14/2014 5:06:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-14\2014-10-14_004.xad)		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/14/2014 4:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1