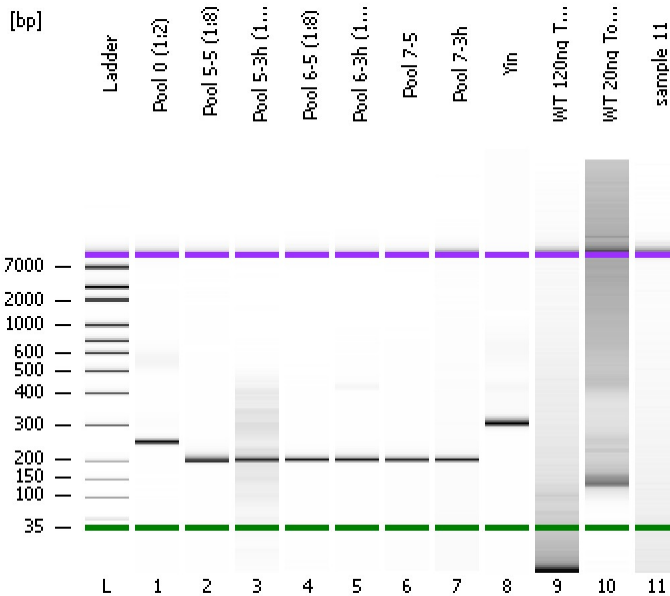


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
Modified: 10/23/2014 3:51:01 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

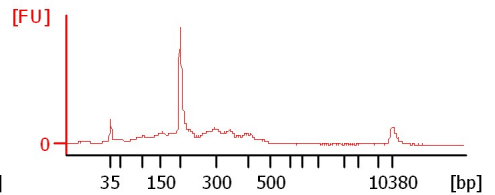
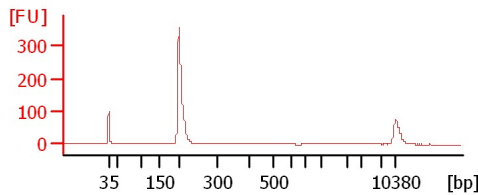
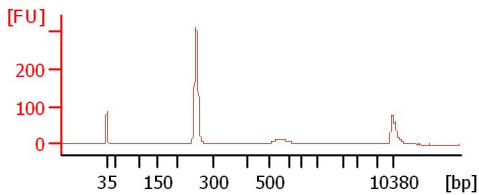
Chip Information:

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

Pool 0 (1:2)

Pool 5-5 (1:8)

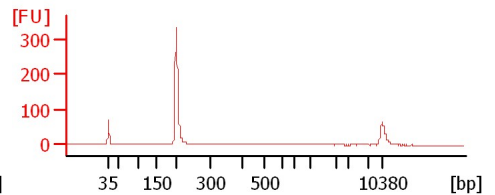
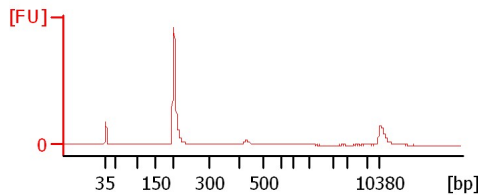
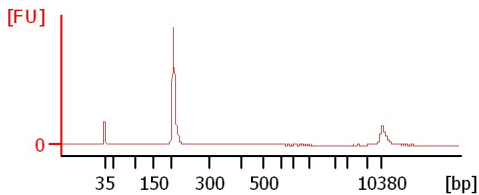
Pool 5-3h (1:10)



Pool 6-5 (1:8)

Pool 6-3h (1:15)

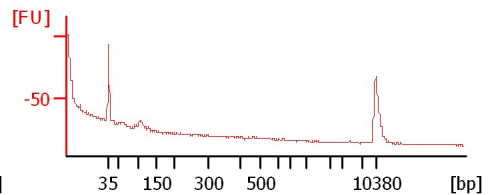
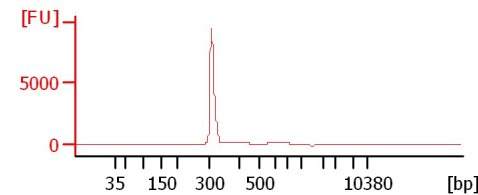
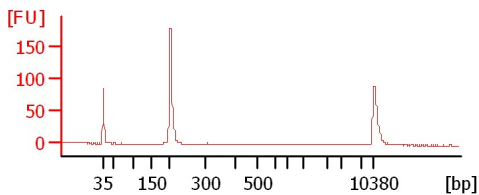
Pool 7-5



Pool 7-3h

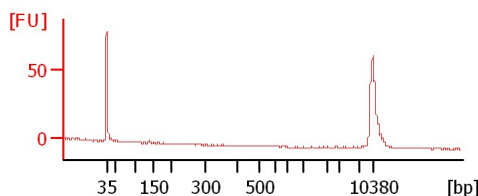
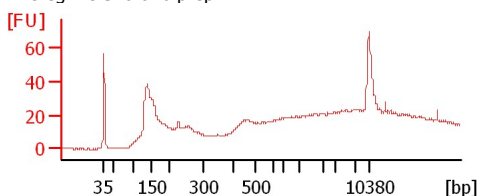
Yln

WT 120ng Tot RNA input
Peregrine Short lib prep



WT 20ng Tot RNA input
Peregrine Short lib prep

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pool 0 (1:2)		<input type="checkbox"/>	✓			
Pool 5-5 (1:8)		<input type="checkbox"/>	✓			
Pool 5-3h (1:10)		<input type="checkbox"/>	✓			
Pool 6-5 (1:8)		<input type="checkbox"/>	✓			
Pool 6-3h (1:15)		<input type="checkbox"/>	✓			
Pool 7-5		<input type="checkbox"/>	✓			
Pool 7-3h		<input type="checkbox"/>	✓			
Yin		<input type="checkbox"/>	✓			
WT 120ng Tot RNA input	Peregrine Short lib prep	<input type="checkbox"/>	✓			
WT 20ng Tot RNA input	Peregrine Short lib prep	<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\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
Modified: 10/23/2014 3:51:01 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

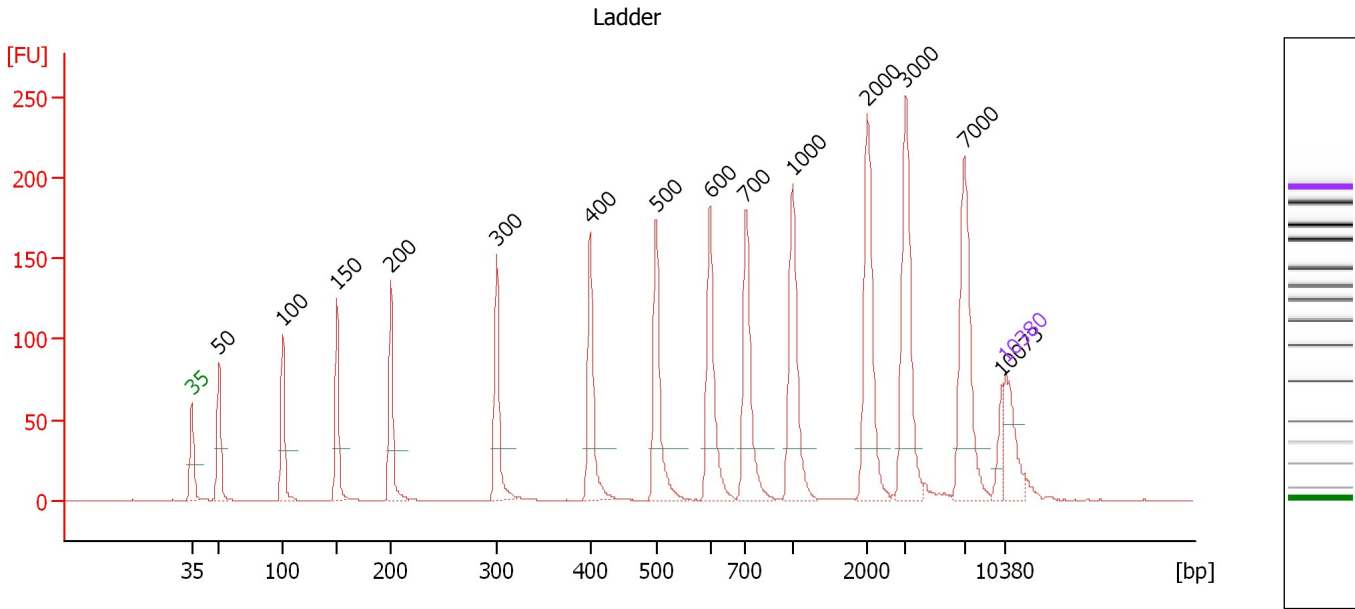
Ladder

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\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

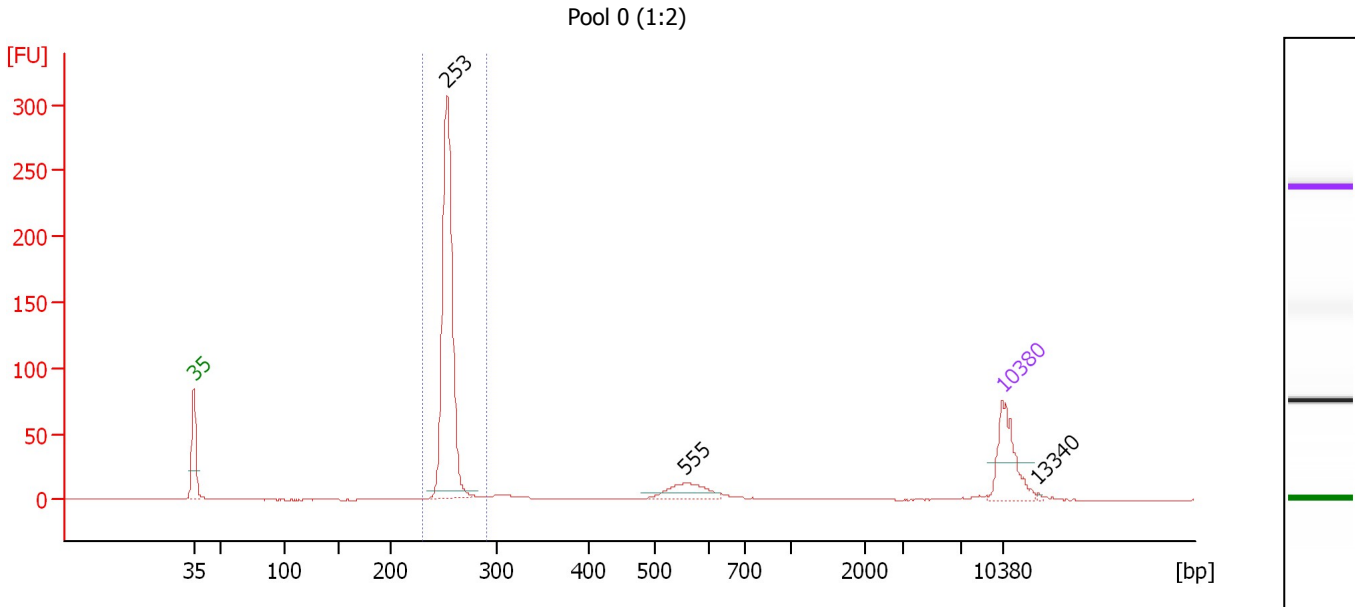
Peak table for Ladder

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	10,073	0.00	0.0	
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Pool 0 (1:2)

Number of peaks found: 3 Corr. Area 1: 507.6
 Noise: 0.2

Peak table for sample 1 : Pool 0 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	536.30	3,213.9	
3	555	49.33	134.8	
4	10,380	75.00	10.9	Upper Marker
5	13,340	0.00	0.0	

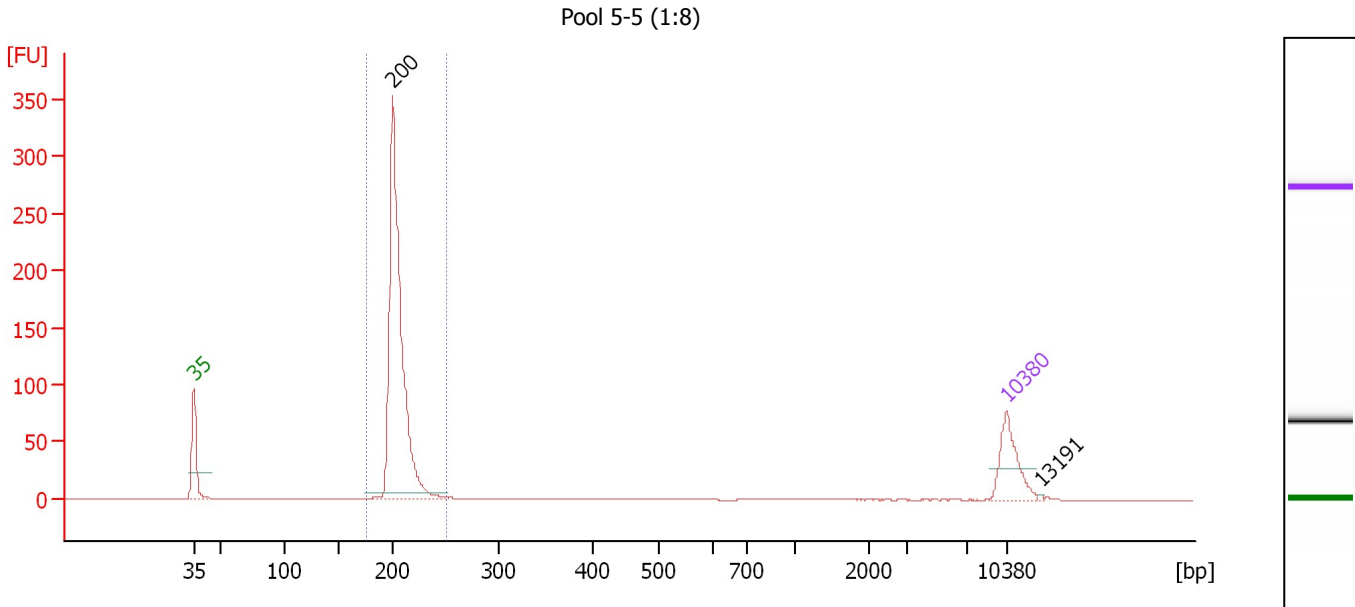
Region table for sample 1 : Pool 0 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
230	254	290	507.6	78	2.3	550.37	3,285.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Pool 5-5 (1:8)

Number of peaks found: 2 Corr. Area 1: 700.3
 Noise: 0.1

Peak table for sample 2 : Pool 5-5 (1:8)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	200	793.30	6,006.2	
3	10,380	75.00	10.9	Upper Marker
4	13,191	0.00	0.0	

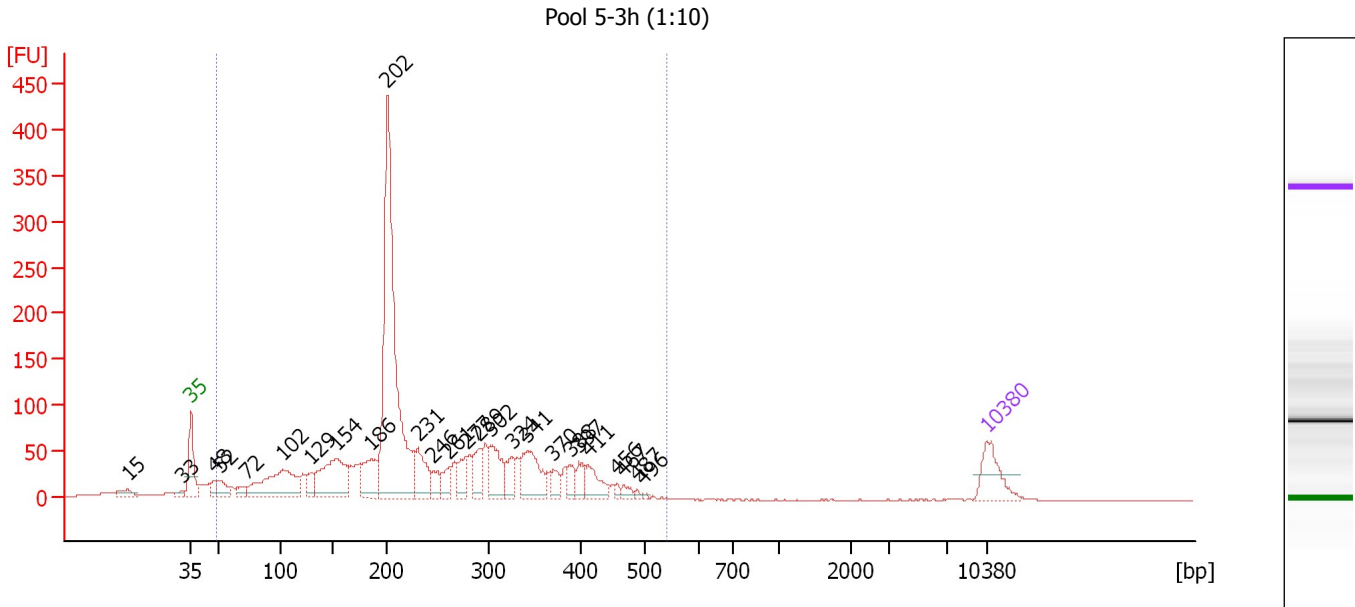
Region table for sample 2 : Pool 5-5 (1:8)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
176	205	251	700.3	94	4.1	789.20	5,837.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Pool 5-3h (1:10)

Number of peaks found: 26 Corr. Area 1: 2,543.2
 Noise: 0.4

Peak table for sample 3 : Pool 5-3h (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	15	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	48	33.28	1,058.5	
5	52	56.68	1,659.1	
6	72	33.05	693.5	
7	102	293.31	4,338.5	
8	129	50.16	587.9	
9	154	269.52	2,650.3	
10	186	139.10	1,130.2	
11	202	1,064.27	7,994.6	
12	231	117.18	768.6	
13	246	42.90	264.3	
14	261	53.35	310.0	
15	277	63.20	345.4	
16	289	82.19	430.8	
17	302	115.87	582.1	
18	324	53.20	248.5	
19	341	144.31	640.6	
20	370	38.99	159.7	
21	388	35.50	138.6	
22	397	41.08	156.6	
23	411	67.52	248.8	
24	456	11.41	37.9	
25	467	17.58	57.1	
26	487	6.82	21.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : Pool 5-3h (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	496	3.59	11.0	
28	10,380	75.00	10.9	Upper Marker

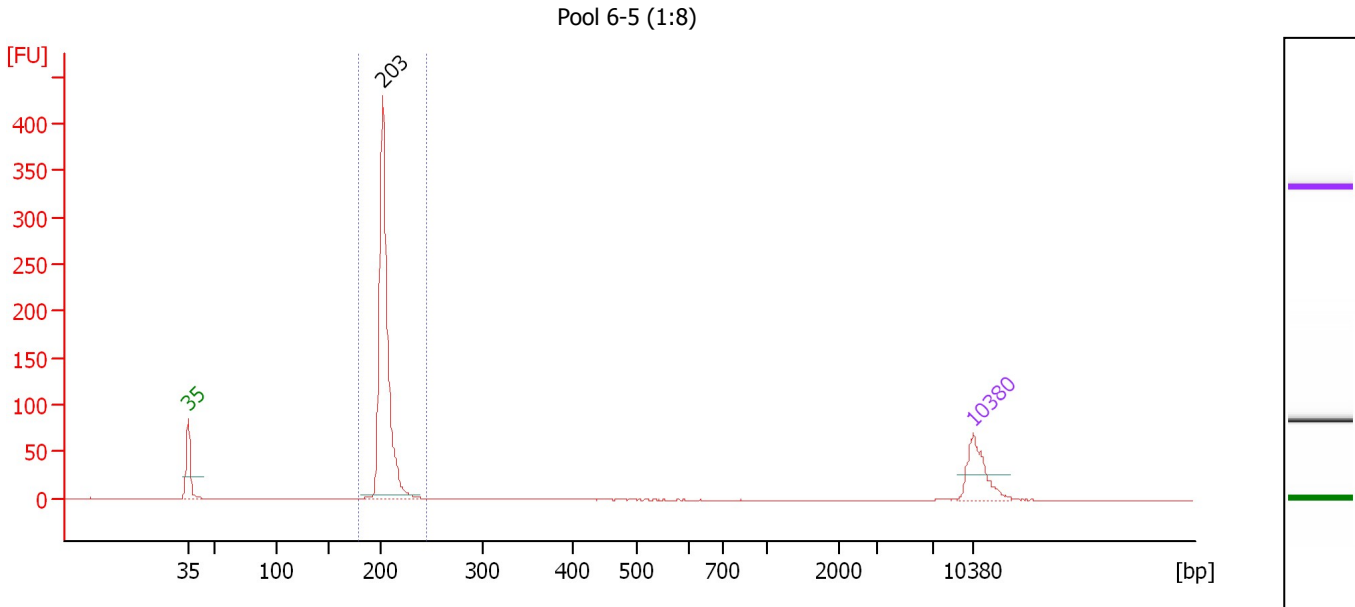
Region table for sample 3 : Pool 5-3h (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
49	243	539	2,543.2	95	38.6	3,132.09	25,707.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Pool 6-5 (1:8)

Number of peaks found: 1 Corr. Area 1: 613.0
 Noise: 0.2

Peak table for sample 4 : Pool 6-5 (1:8)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	203	710.94	5,313.9	
3	10,380	75.00	10.9	Upper Marker

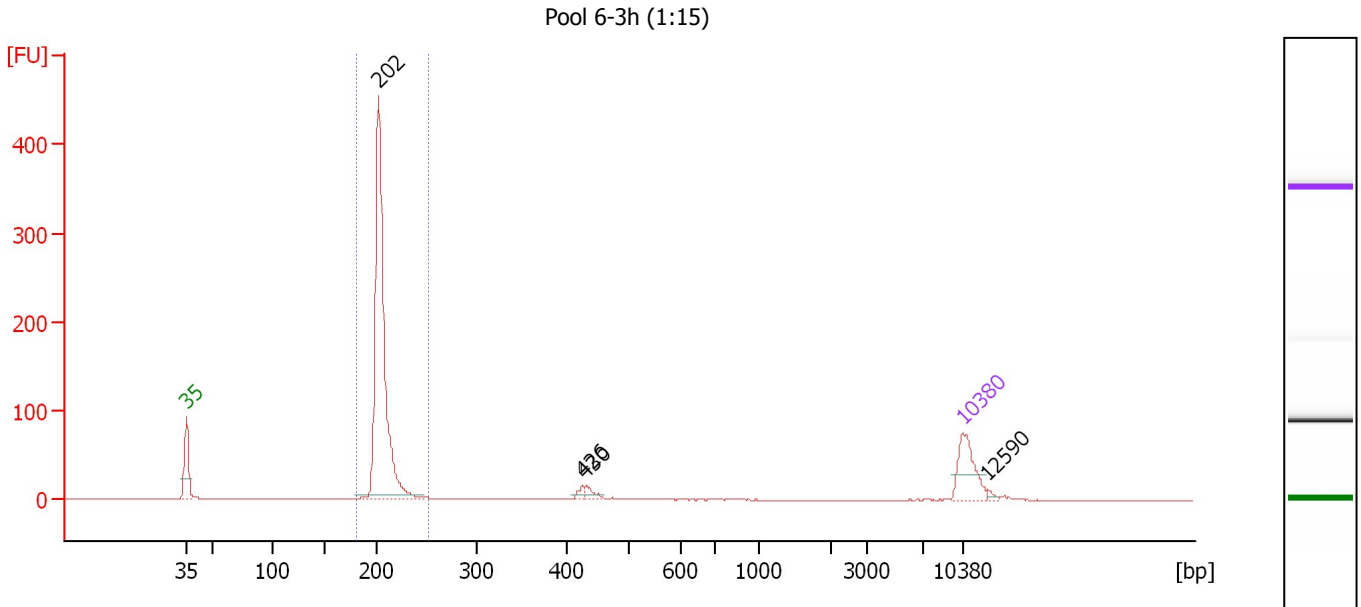
Region table for sample 4 : Pool 6-5 (1:8)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	205	246	613.0	98	3.0	710.45	5,252.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Pool 6-3h (1:15)

Number of peaks found: 4 Corr. Area 1: 715.8
 Noise: 0.1

Peak table for sample 5 : Pool 6-3h (1:15)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	802.86	6,013.3	
3	426	11.34	40.3	
4	430	16.47	58.0	
5	10,380	75.00	10.9	Upper Marker
6	12,590	0.00	0.0	

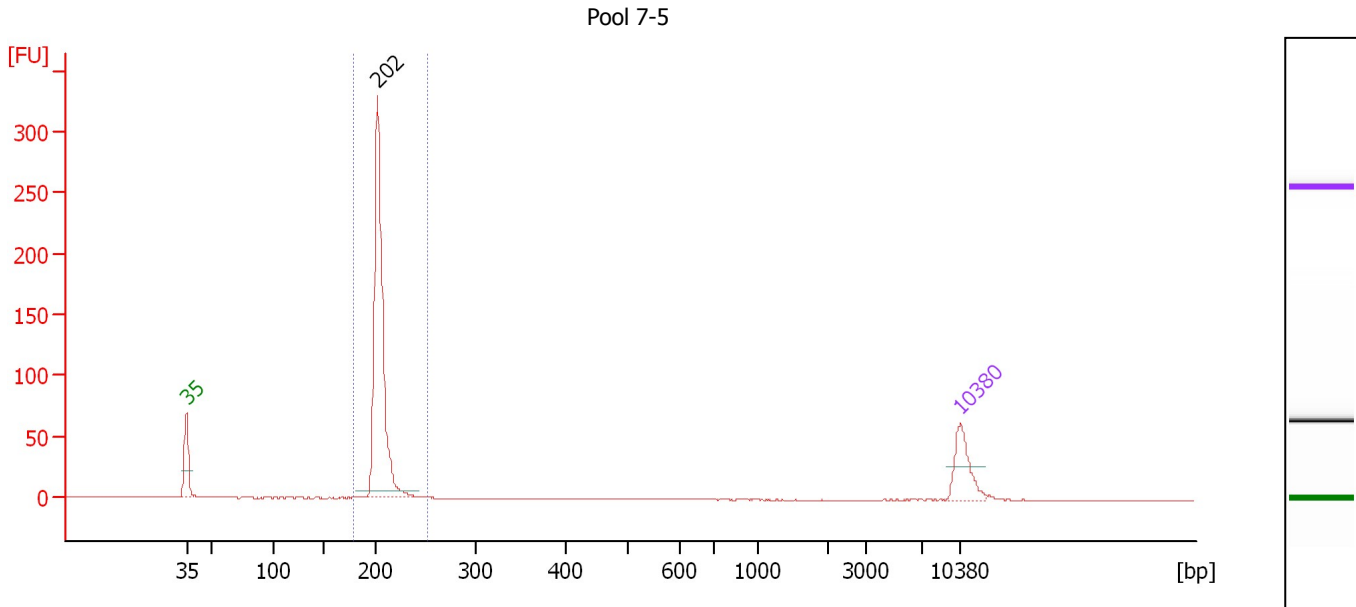
Region table for sample 5 : Pool 6-3h (1:15)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
181	206	252	715.8	87	3.8	807.31	5,947.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Pool 7-5

Number of peaks found: 1 Corr. Area 1: 491.9
 Noise: 0.1

Peak table for sample 6 : Pool 7-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	749.50	5,628.5	
3	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : Pool 7-5

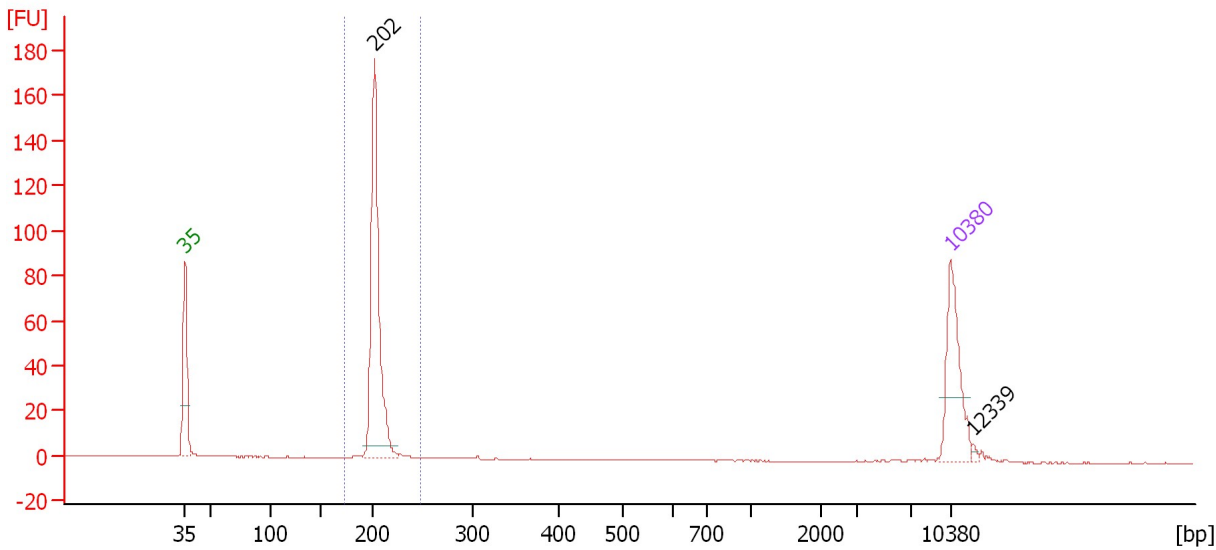
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
179	205	251	491.9	96	3.3	753.34	5,581.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...

Pool 7-3h



Overall Results for sample 7 : Pool 7-3h

Number of peaks found: 2 Corr. Area 1: 246.7
 Noise: 0.1

Peak table for sample 7 : Pool 7-3h

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	295.54	2,215.3	
3	10,380	75.00	10.9	Upper Marker
4	12,339	0.00	0.0	

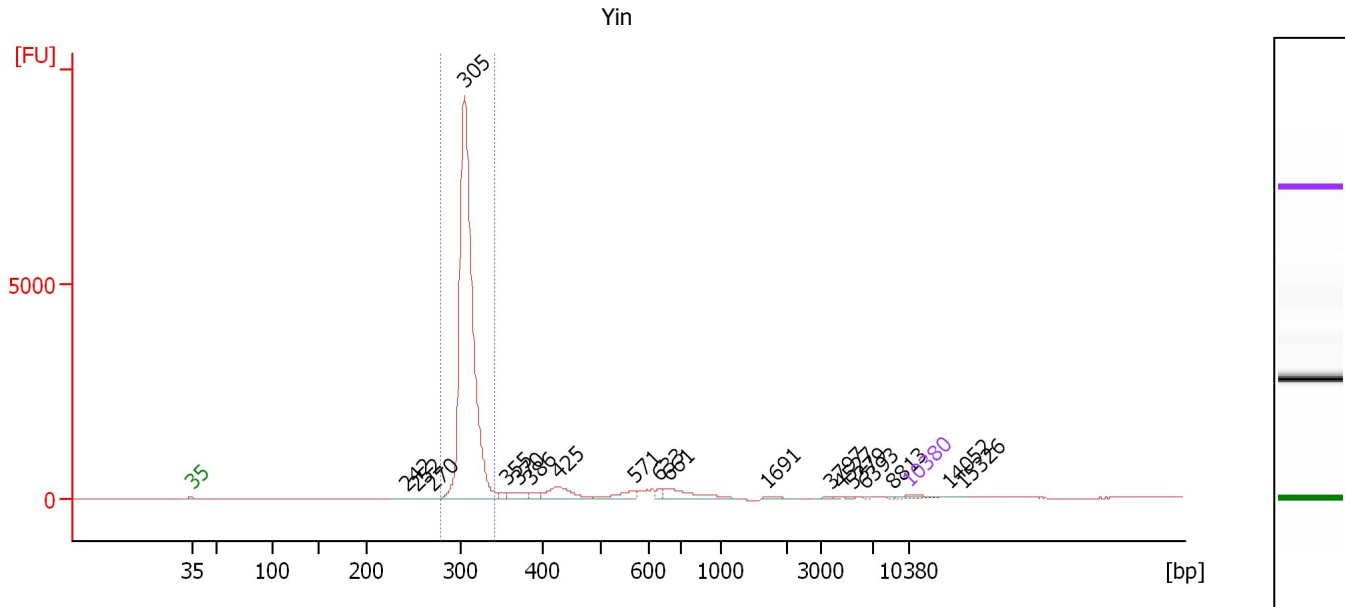
Region table for sample 7 : Pool 7-3h

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
173	204	249	246.7	90	3.0	303.11	2,248.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Yin

Number of peaks found: 19 Corr. Area 1: 18,875.5
 Noise: 0.2

Peak table for sample 8 : Yin

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	6.35	39.8	
3	252	5.94	35.7	
4	270	14.63	82.2	
5	305	13,083.91	65,081.3	
6	355	91.10	388.9	
7	370	273.30	1,118.4	
8	386	147.23	577.6	
9	425	602.06	2,143.9	
10	571	275.46	731.1	
11	633	101.39	242.8	
12	661	474.69	1,088.1	
13	1,691	19.86	17.8	
14	3,797	5.63	2.2	
15	4,527	3.72	1.2	
16	5,379	5.36	1.5	
17	6,393	5.63	1.3	
18	8,813	5.23	0.9	
19	10,380	75.00	10.9	Upper Marker
20	14,052	0.00	0.0	
21	15,326	0.00	0.0	

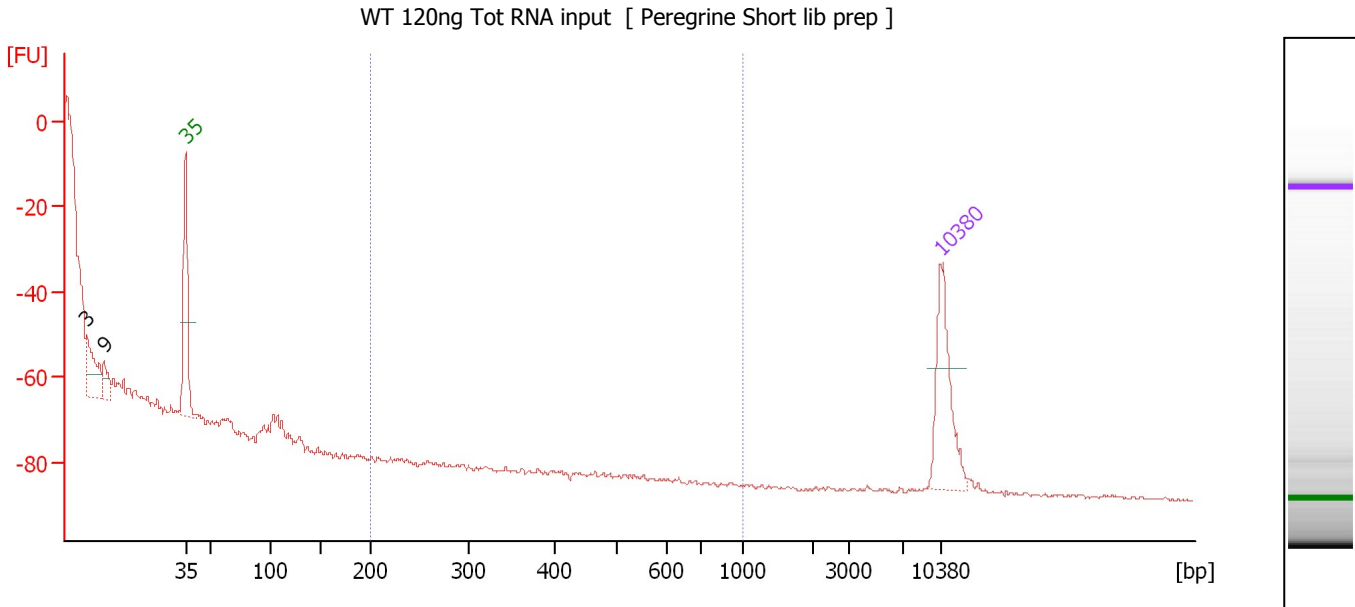
Region table for sample 8 : Yin

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
278	309	342	18,875.5	84	2.8	12,844.46	63,121.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WT 120ng Tot RNA input

Number of peaks found: 2 Corr. Area 1: 0.0
 Noise: 0.4

Peak table for sample 9 : WT 120ng Tot RNA input

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	3	0.00	0.0	
2	9	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : WT 120ng Tot RNA input

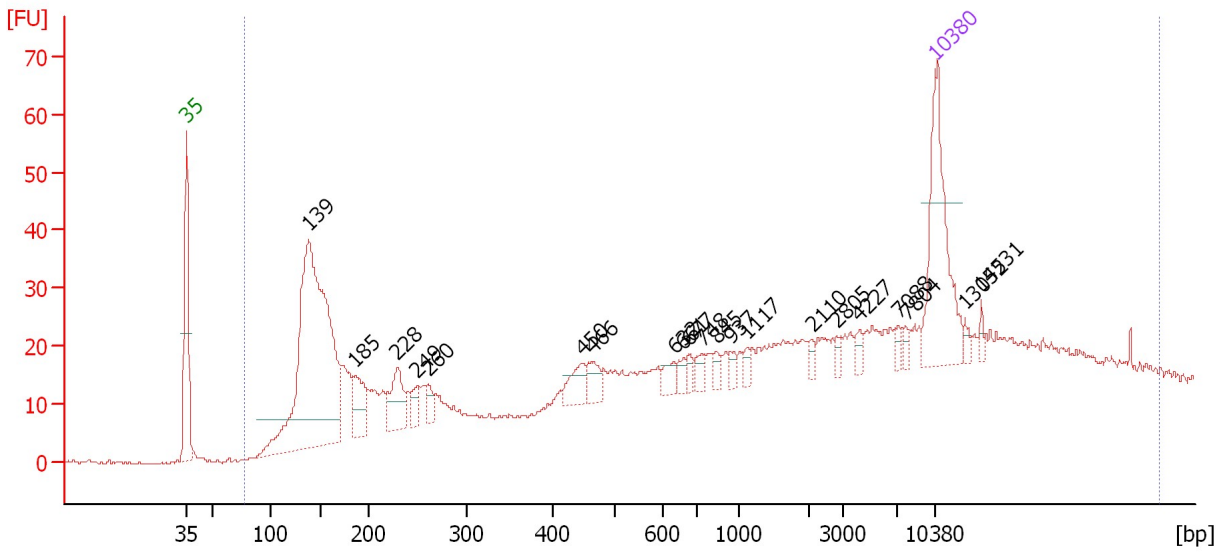
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	0	1,000	0.0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...

WT 20ng Tot RNA input [Peregrine Short lib prep]



Overall Results for sample 10 : WT 20ng Tot RNA input

Number of peaks found: 21 Corr. Area 1: 864.5
 Noise: 0.3

Peak table for sample 10 : WT 20ng Tot RNA input

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	139	384.41	4,203.4	
3	185	35.70	291.8	
4	228	35.93	238.5	
5	249	12.61	76.9	
6	260	9.82	57.2	
7	450	19.64	66.2	
8	466	14.73	47.9	
9	632	9.45	22.7	
10	661	7.07	16.2	
11	677	5.97	13.3	
12	748	7.44	15.1	
13	845	6.32	11.3	
14	937	5.42	8.8	
15	1,117	4.69	6.4	
16	2,110	4.05	2.9	
17	2,805	4.43	2.4	
18	4,227	5.63	2.0	
19	7,088	4.31	0.9	
20	7,804	4.09	0.8	
21	10,380	75.00	10.9	Upper Marker
22	13,052	0.00	0.0	
23	14,531	0.00	0.0	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...

... Region table for sample 10 :

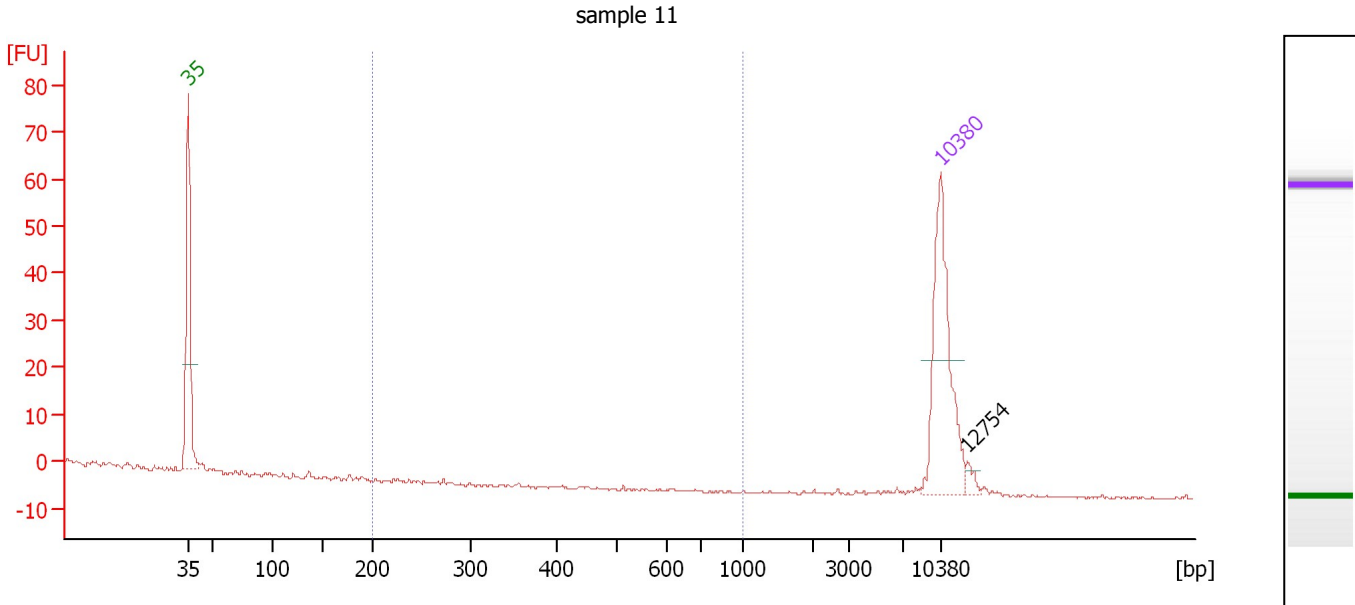
WT 20ng Tot RNA input

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
78	5,563	30,388	864.5	100	100.0	1,147.18	6,379.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad

Created: 10/23/2014 3:09:38 PM
 Modified: 10/23/2014 3:51:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

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

Peak table for sample 11 : sample 11

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	12,754	0.00	0.0	

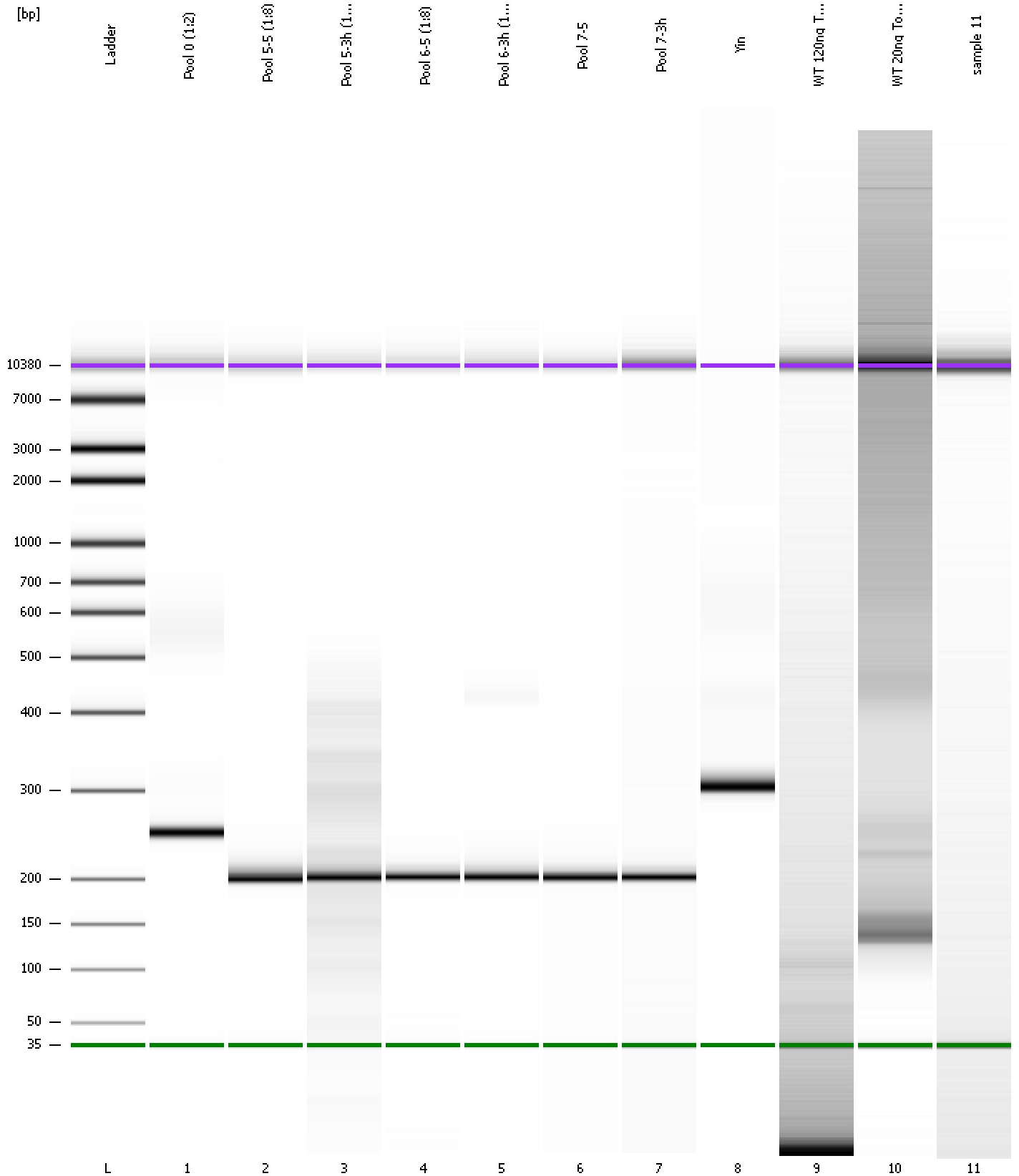
Region table for sample 11 : sample 11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	0	1,000	0.0	0	0.0	0.00	0.0	Blue

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Gel Image

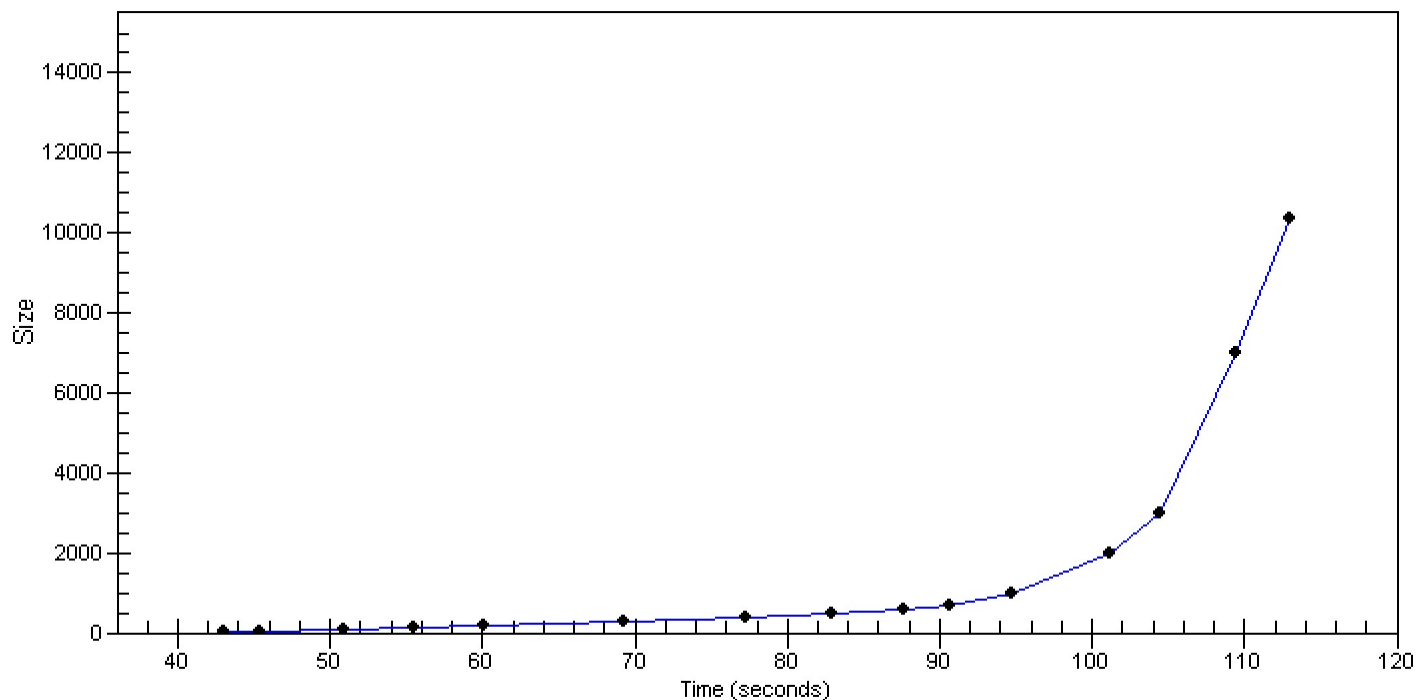


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Curves

Standard Curve



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 Modified: 10/23/2014 3:51:01 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		10/23/2014 3:50:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-23\2014-10-23_003.xad)		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/23/2014 3:09:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1