

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

Created: 7/31/2014 12:21:56 PM
Modified: 7/31/2014 12:52:28 PM

Electrophoresis File Run Summary

Instrument Information:

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

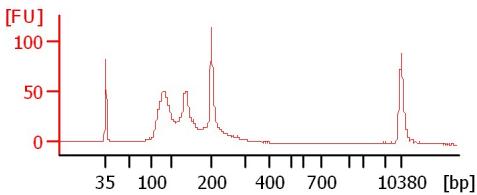
Assay Information:

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

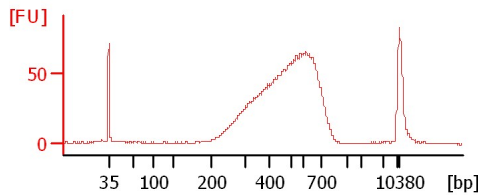
Chip Information:

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

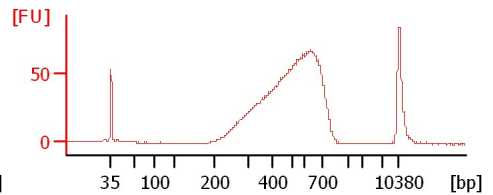
ER_16X_073114 1:2



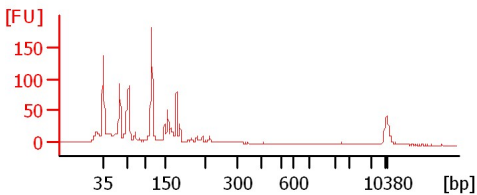
0m_92112 1:5



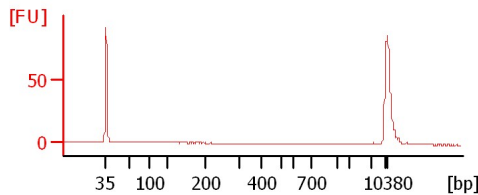
890m_912 1:3



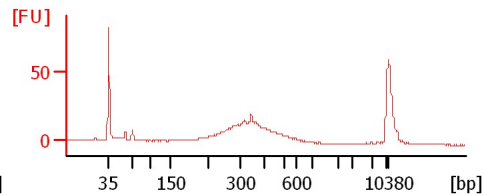
PI-1 small RNA 1:6



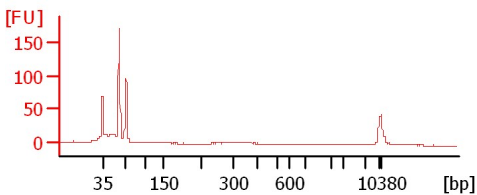
M1 lig. rxn before clean-up



24-3 lib. after clean-up



24-3 lib. PCR



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ER_16X_073114 1:2		<input type="checkbox"/>	✓			
0m_92112 1:5		<input type="checkbox"/>	✓			
890m_912 1:3		<input type="checkbox"/>	✓			
PI-1 small RNA 1:6		<input type="checkbox"/>	✓			
M1 lig. rxn before clean-up		<input type="checkbox"/>	✓			
24-3 lib. after clean-up		<input type="checkbox"/>	✓			
24-3 lib. PCR		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

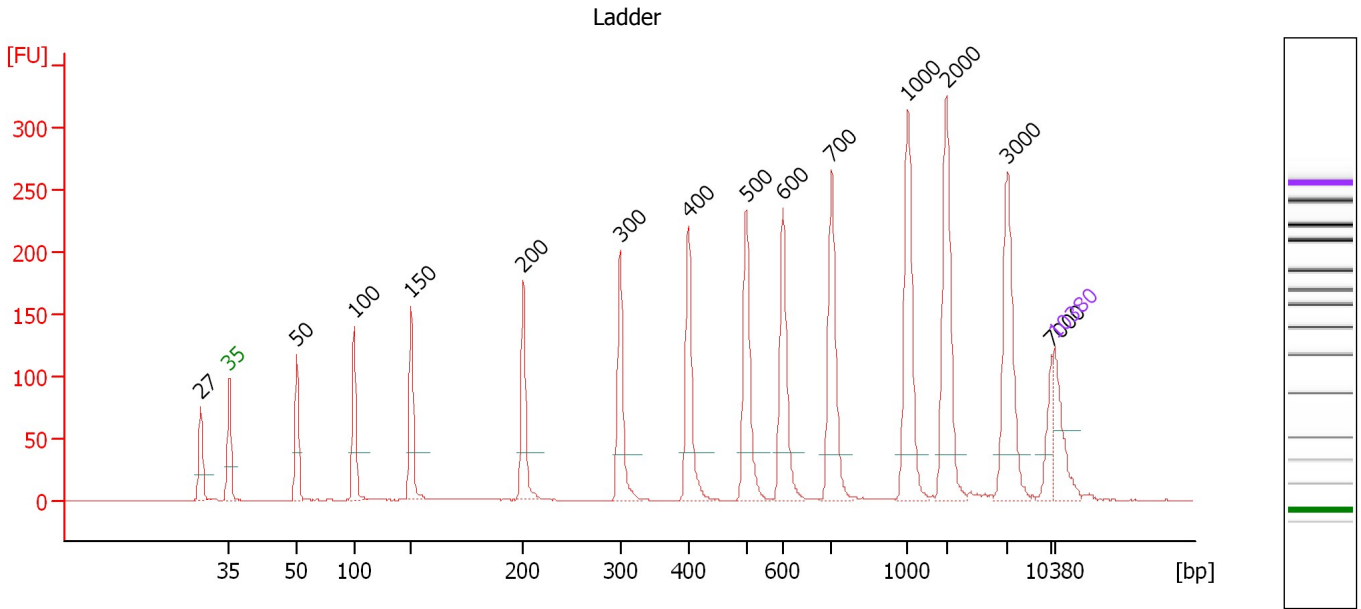
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

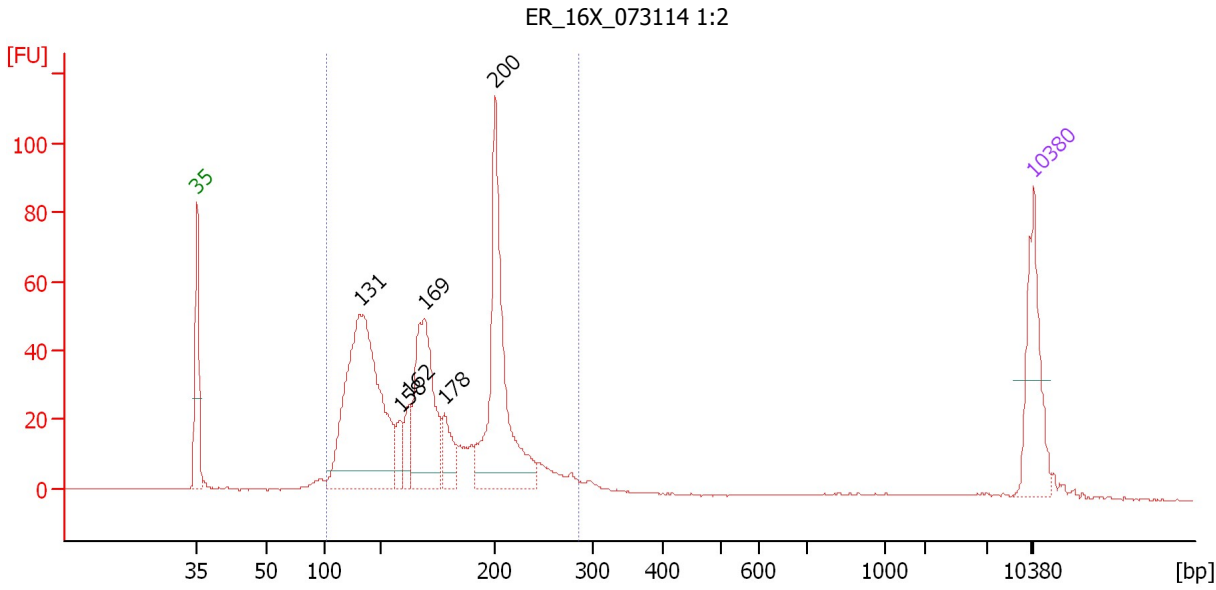
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : ER 16X 073114 1:2

Number of peaks found: 6 Corr. Area 1: 867.2
 Noise: 0.1

Peak table for sample 1 : ER 16X 073114 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	476.73	5,509.9	
3	158	30.77	295.0	
4	162	40.20	375.9	
5	169	215.87	1,935.0	
6	178	50.62	431.7	
7	200	297.91	2,258.2	
8	10,380	75.00	10.9	Upper Marker

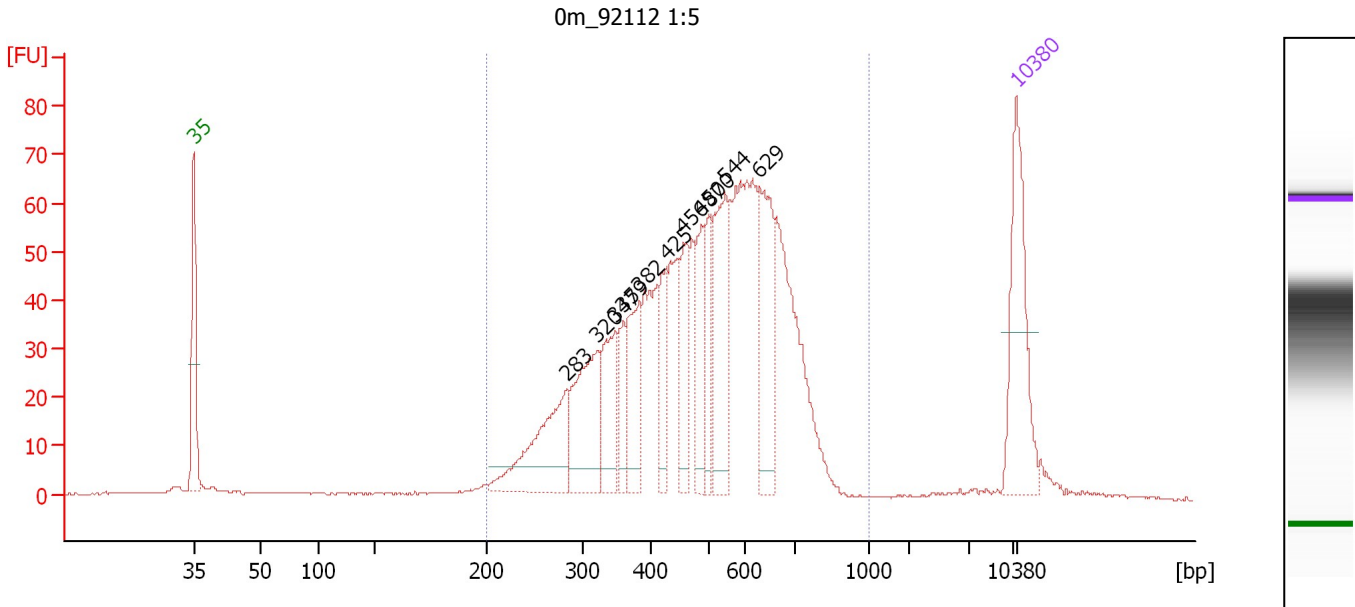
Region table for sample 1 : ER 16X 073114 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
103	286	173	11,418.9	1,225.51	867.2	93	21.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 0m_92112 1:5

Number of peaks found: 11 Corr. Area 1: 1,260.0
 Noise: 0.2

Peak table for sample 2 : 0m_92112 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	106.82	571.3	
3	320	98.52	466.1	
4	347	57.34	250.4	
5	359	31.67	133.8	
6	382	61.54	243.9	
7	425	37.80	134.7	
8	456	44.42	147.7	
9	487	49.14	152.9	
10	500	42.18	127.9	
11	544	89.59	249.6	
12	629	88.57	213.2	
13	10,380	75.00	10.9	Upper Marker

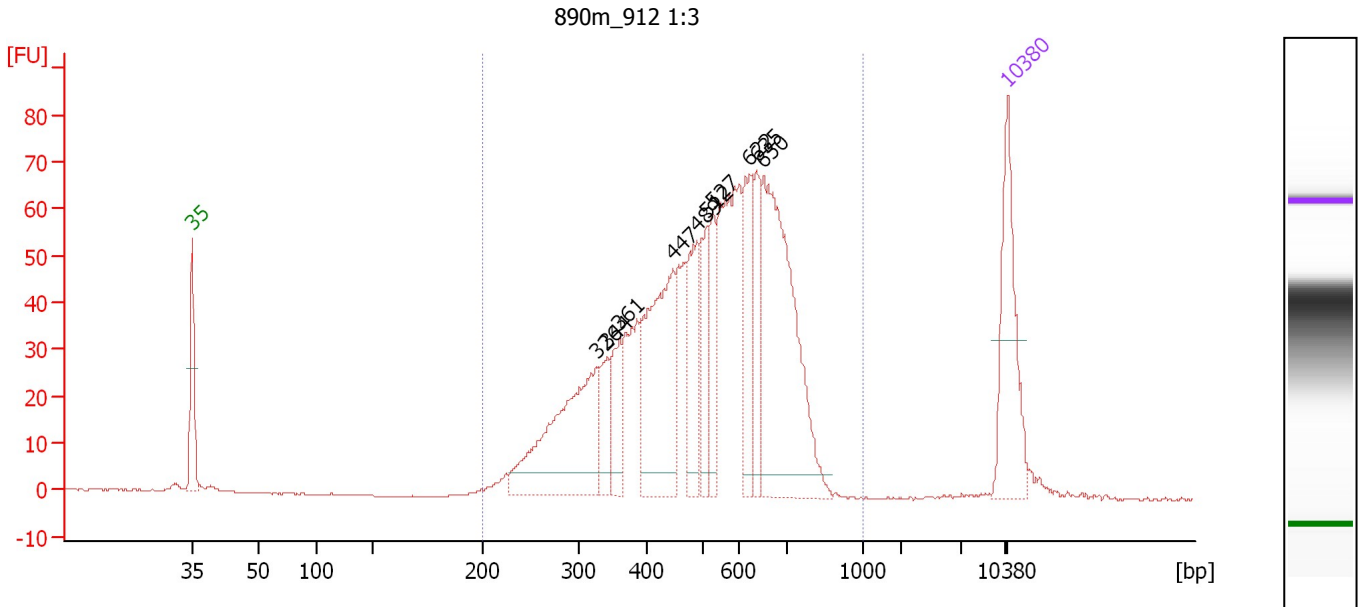
Region table for sample 2 : 0m_92112 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	495	4,384.7	1,250.25	1,260.0	96	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 890m 912 1:3

Number of peaks found: 10 Corr. Area 1: 1,233.2
 Noise: 0.1

Peak table for sample 3 : 890m 912 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	326	181.46	843.1	
3	344	39.46	174.1	
4	361	44.24	185.7	
5	447	163.31	553.6	
6	489	73.35	227.4	
7	512	52.00	154.0	
8	527	44.15	127.0	
9	622	62.62	152.6	
10	635	53.35	127.3	
11	650	229.19	534.0	
12	10,380	75.00	10.9	Upper Marker

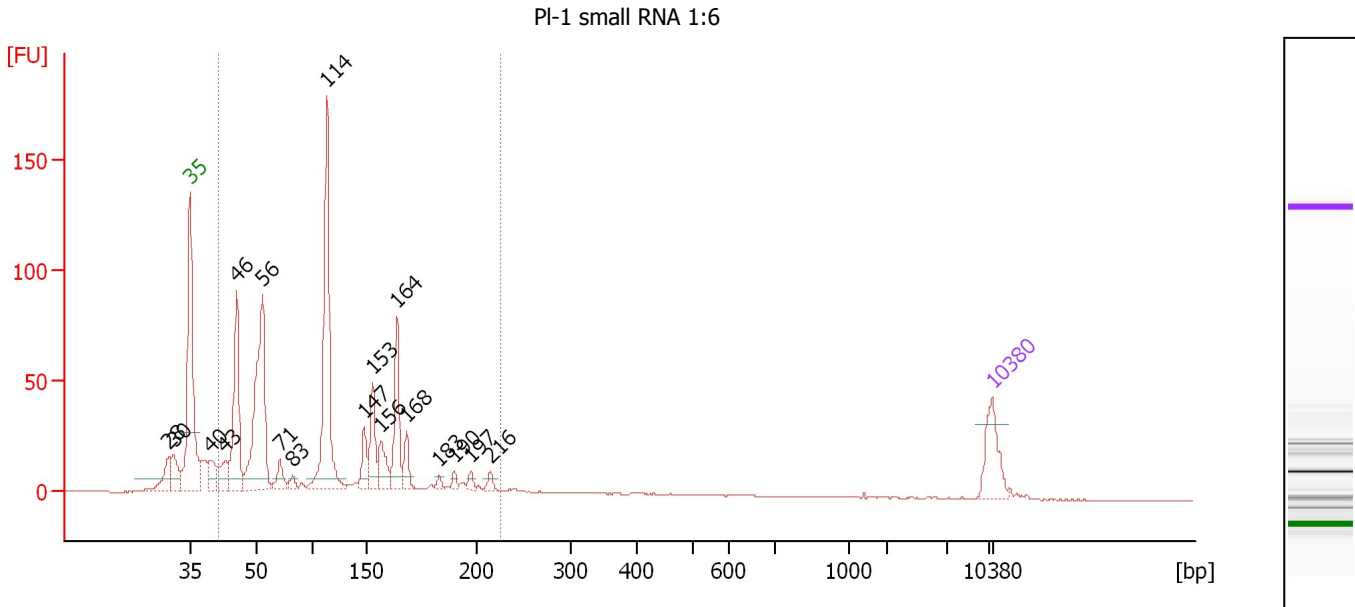
Region table for sample 3 : 890m 912 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	513	4,216.4	1,252.36	1,233.2	98	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : PI-1 small RNA 1:6

Number of peaks found: 18 Corr. Area 1: 839.2
 Noise: 0.2

Peak table for sample 4 : PI-1 small RNA 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	30	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	40	75.89	2,893.2	
5	43	62.10	2,193.2	
6	46	321.69	10,694.5	
7	56	519.67	14,058.1	
8	71	50.86	1,081.5	
9	83	19.94	365.3	
10	114	564.75	7,511.0	
11	147	64.73	665.3	
12	153	114.84	1,140.2	
13	156	76.26	739.4	
14	164	162.44	1,502.3	
15	168	53.04	477.8	
16	183	11.55	95.6	
17	190	14.04	112.0	
18	197	15.50	118.9	
19	216	18.20	127.8	
20	10,380	75.00	10.9	Upper Marker

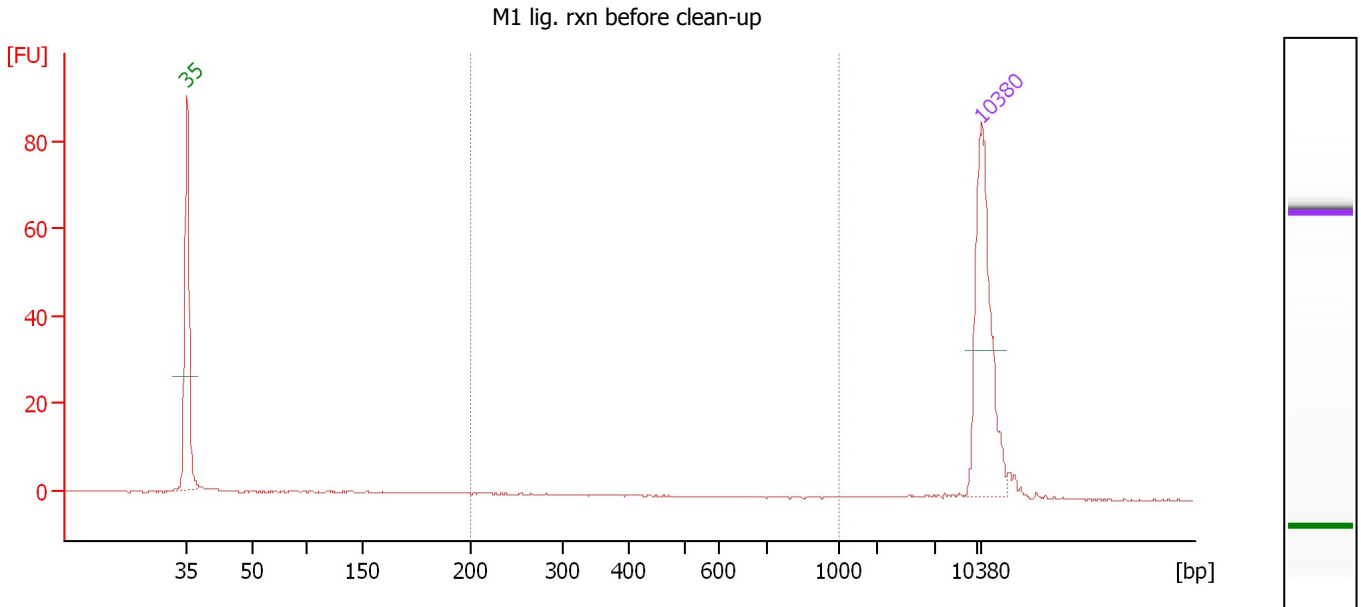
Region table for sample 4 : PI-1 small RNA 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
41	226	108	46,300.3	2,391.29	839.2	84	46.9

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Electropherogram Summary Continued ...



Overall Results for sample 5 : M1 lig. rxn before clean-up

Number of peaks found: 0 Corr. Area 1: 2.3
 Noise: 0.1

Peak table for sample 5 : M1 lig. rxn before clean-up

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

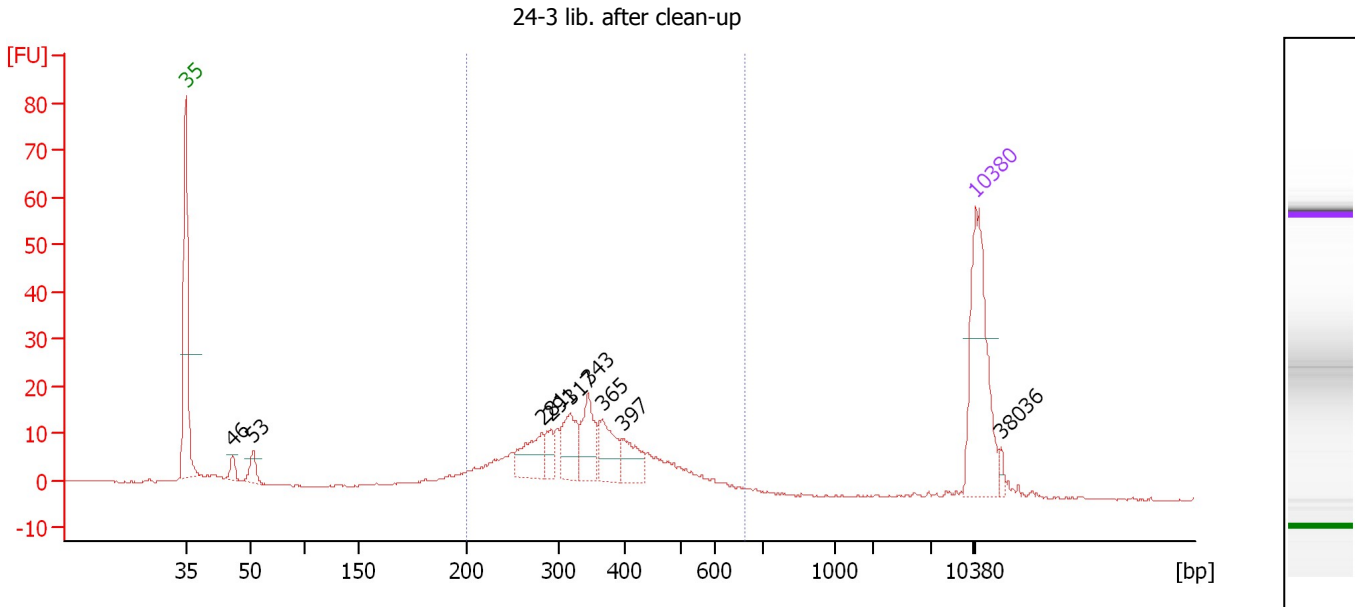
Region table for sample 5 : M1 lig. rxn before clean-up

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	396	12.3	2.31	2.3	9	63.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 24-3 lib. after clean-up

Number of peaks found: 9 Corr. Area 1: 257.2
 Noise: 0.1

Peak table for sample 6 : 24-3 lib. after clean-up

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	9.03	297.4	
3	53	15.10	434.9	
4	281	34.47	185.8	
5	291	13.83	72.0	
6	317	34.38	164.6	
7	343	35.02	154.5	
8	365	32.63	135.3	
9	397	23.44	89.4	
10	10,380	75.00	10.9	Upper Marker
11	38,036	0.00	0.0	

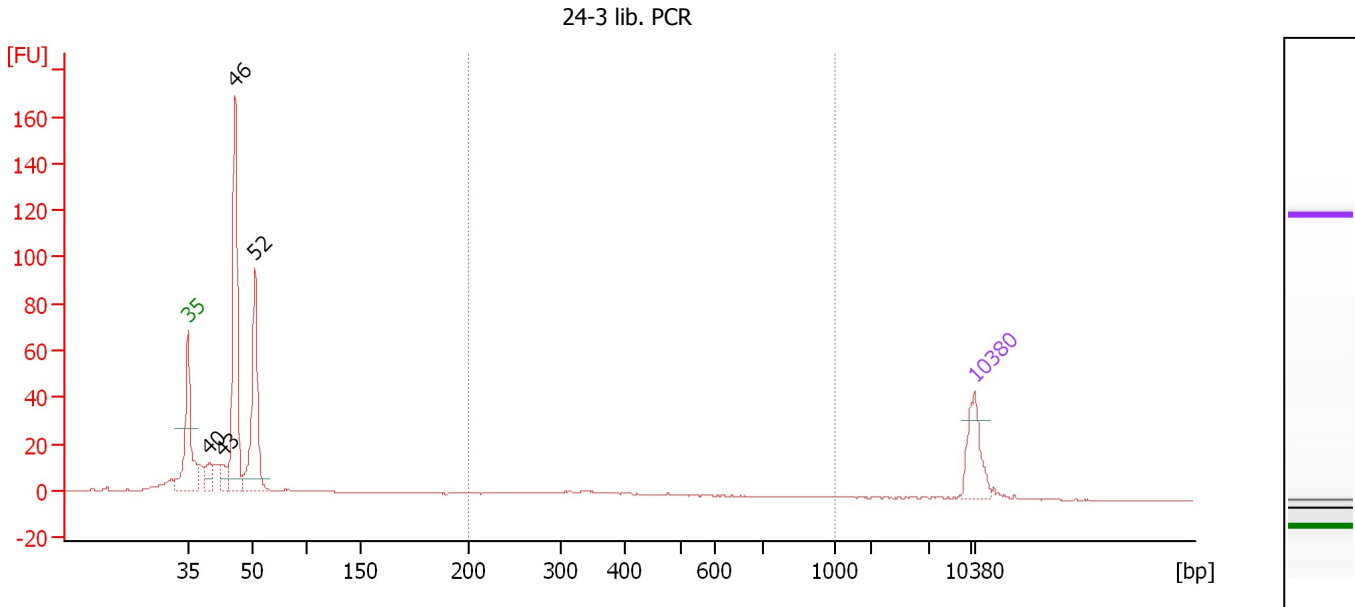
Region table for sample 6 : 24-3 lib. after clean-up

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	662	353	1,467.1	313.98	257.2	83	26.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 24-3 lib. PCR

Number of peaks found: 4 Corr. Area 1: 26.2
 Noise: 0.1

Peak table for sample 7 : 24-3 lib. PCR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	55.44	2,102.1	
3	43	55.18	1,947.4	
4	46	529.41	17,472.7	
5	52	354.45	10,244.2	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : 24-3 lib. PCR

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	384	252.8	55.96	26.2	6	35.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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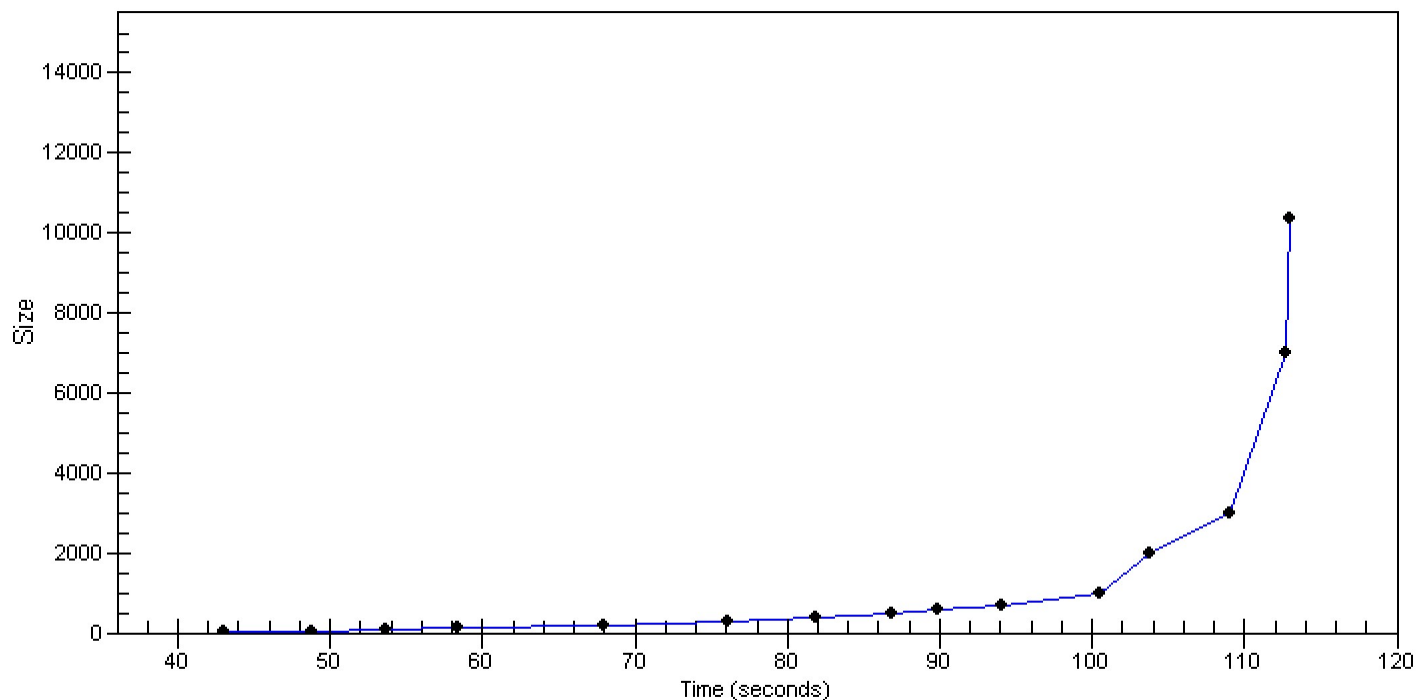
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad

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Curves

Standard Curve



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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.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		7/31/2014 12:51:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-31\2014-07-31_002.xad)		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/31/2014 12:22:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1