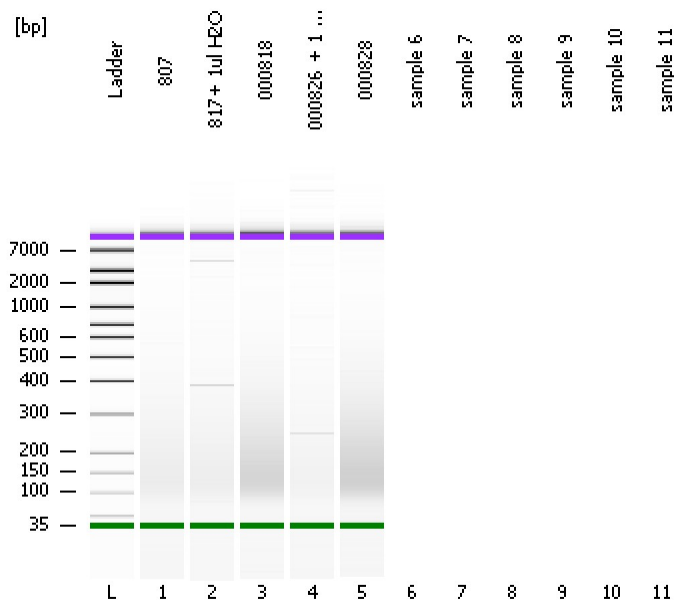


Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 AM

Electrophoresis File Run Summary



Instrument Information:

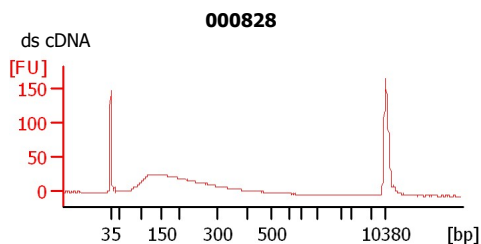
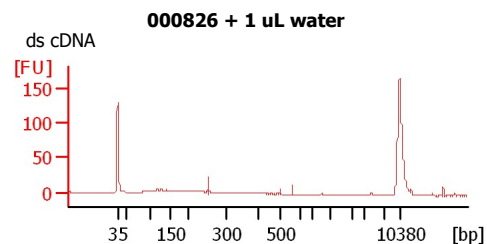
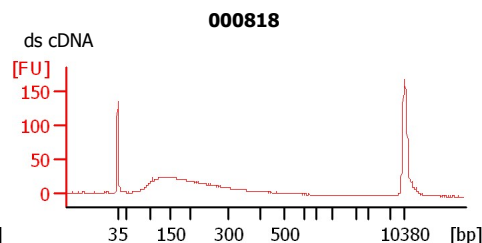
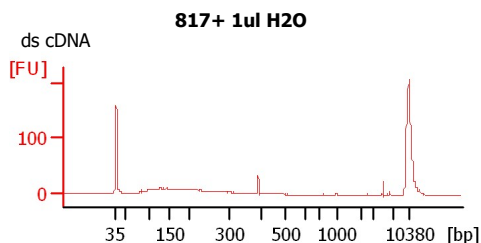
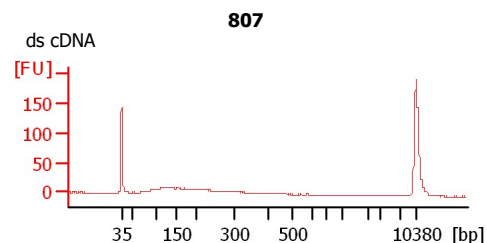
Instrument Name: Ann's baby Firmware: C.01.069
Serial#: DE24802235 Type: G2938B

Assay Information:

Assay Origin Path: D:\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: 1st set of Jianxin Ma Soybean RNA Solexa samples. Acc# #000807-000828. TruSeq RNA sample prep kit with std Elute Prime Frag of 8 minutes. This is cleaned up ds cDNA taken at completion of Day 1...



Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
807	ds cDNA	☐		✓		
817+ 1ul H2O	ds cDNA	☐		✓		
000818	ds cDNA	☐		✓		
000826 + 1 uL water	ds cDNA	☐		✓		
000828	ds cDNA	☐		✓		
sample 6		☐				
sample 7		☐				
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐		✓		

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

1st set of Jianxin Ma Soybean RNA Solexa samples. Acc# #000807-000828. TruSeq RNA sample prep kit with std Elute Prime Frag of 8 minutes. This is cleaned up ds cDNA taken at completion of Day 1 of protocol. Started with 4 ug of total RNA as initial input. Main peak of ds CDNA is at 100-200 bp with 18% of sample in this range. Good tail to right of larger species.

2nd overall attempt at TruSeqRNA library creation. Changed fragmentation program to 8 minutes (std- as recommended by manual). 1st attempt at "long" frags, with these same samples produced inserts that were too long for our purposes.

Note: Multiple chips had to be attempted to get this run. Water was added to remains in tube to get "sample" to put on chip. Thus concentrations are not accurate. Not all 8 samples created in this batch were run on a chip. This is a representation of these samples.

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 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

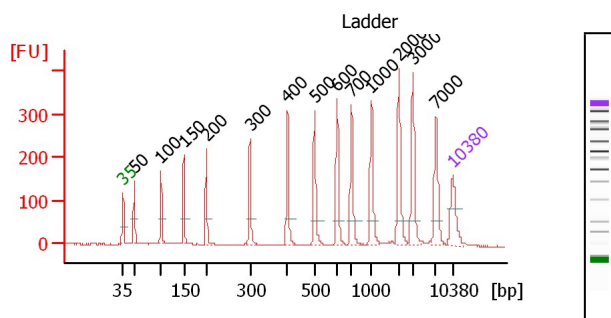
Ladder

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: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
 Modified: 6/28/2011 9:53:41 AM

Electropherogram Summary



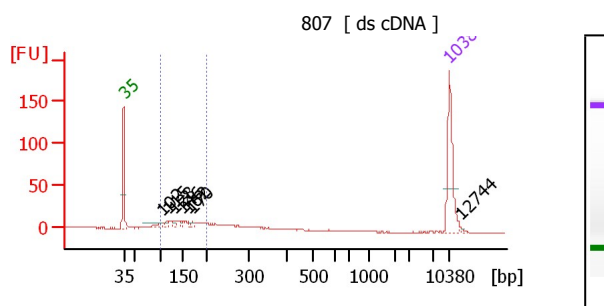
Overall Results for Ladder

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker



Overall Results for sample 1 : 807

Number of peaks found: 7
 Noise: 0.2
 Corr. Area 1: 150.3

Region table for sample 1 : 807

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	200	150.3	47	149	18.9	103.25	1,094.9	Blue

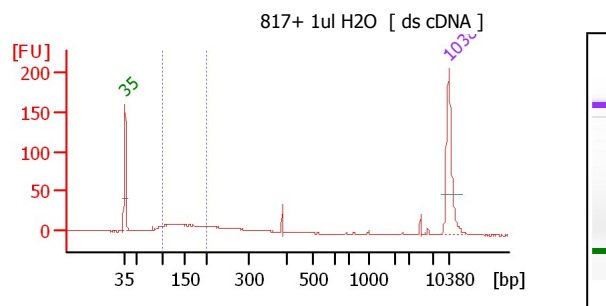
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
 Modified: 6/28/2011 9:53:41 AM

Electropherogram Summary Continued ...

Peak table for sample 1 : 807

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	102	17.85	264.2	
3	115	10.13	133.1	
4	128	9.82	115.9	
5	146	7.25	75.2	
6	162	5.26	49.2	
7	170	5.43	48.3	
8	10,380	75.00	10.9	Upper Marker
9	12,744	0.00	0.0	



Overall Results for sample 2 : 817+ 1ul H2O

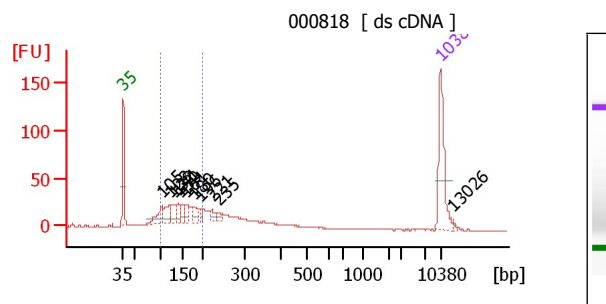
Number of peaks found: 0
 Noise: 0.2
 Corr. Area 1: 145.6

Region table for sample 2 : 817+ 1ul H2O

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	200	145.6	49	149	18.9	83.57	885.1	Blue

Peak table for sample 2 : 817+ 1ul H2O

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



Overall Results for sample 3 : 000818

Number of peaks found: 11
 Noise: 0.2
 Corr. Area 1: 384.3

Region table for sample 3 : 000818

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	200	384.3	48	149	18.8	270.66	2,859.5	Blue

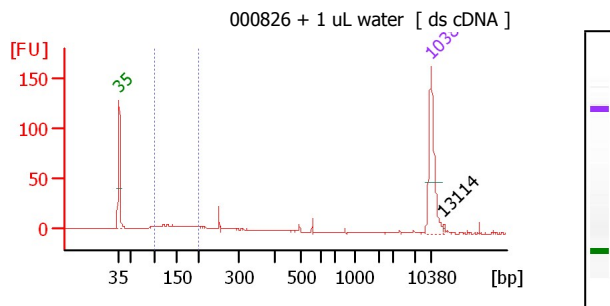
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
 Modified: 6/28/2011 9:53:41 AM

Electropherogram Summary Continued ...

Peak table for sample 3 : 000818

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	105	41.50	597.7	
3	123	40.40	496.4	
4	132	31.54	362.3	
5	141	16.33	175.6	
6	150	26.26	266.0	
7	161	17.90	168.3	
8	180	21.89	184.4	
9	196	8.59	66.5	
10	221	13.33	91.4	
11	235	8.96	57.6	
12	10,380	75.00	10.9	Upper Marker
13	13,026	0.00	0.0	



Overall Results for sample 4 : 000826 + 1 uL water

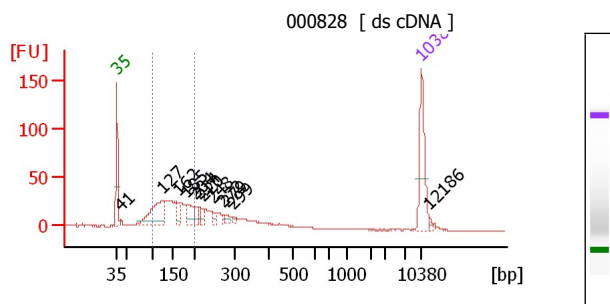
Number of peaks found: 1
 Noise: 0.2
 Corr. Area 1: 63.1

Region table for sample 4 : 000826 + 1 uL water

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	200	63.1	50	148	18.9	45.26	481.8	Blue

Peak table for sample 4 : 000826 + 1 uL 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
3	13,114	0.00	0.0	



Overall Results for sample 5 : 000828

Number of peaks found: 12
 Noise: 0.3
 Corr. Area 1: 417.0

Region table for sample 5 : 000828

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	200	417.0	49	149	18.8	315.72	3,329.4	Blue

Peak table for sample 5 : 000828

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	4.25	155.5	
3	127	128.33	1,534.4	
4	162	28.01	262.6	
5	185	42.79	351.1	
6	204	15.67	116.5	

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

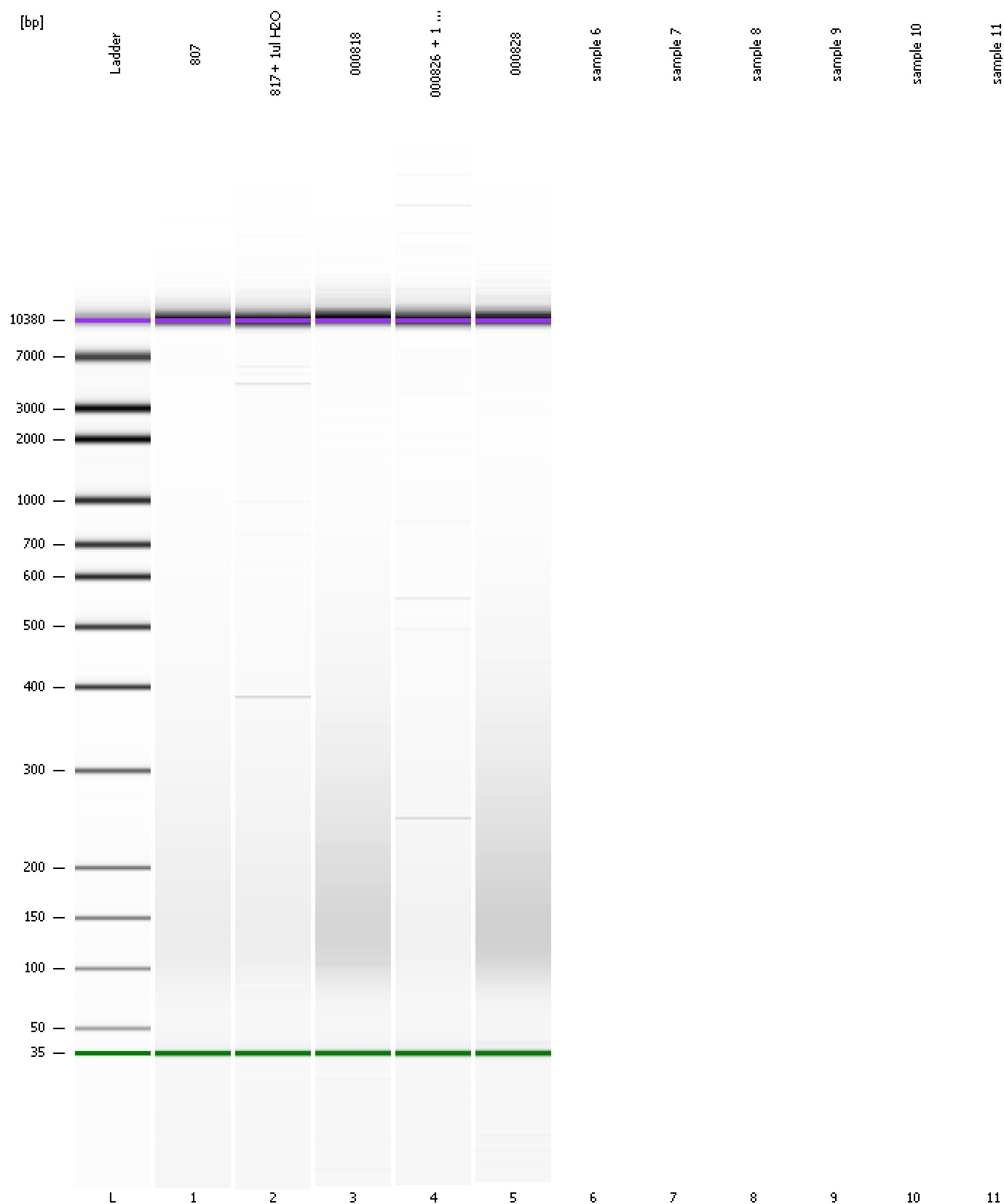
Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 AM

Gel Image

7 214 11.57 81.8

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 AM

Curves

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2011-06-24_16-25-46.xad

Created: 6/24/2011 4:25:45 PM
Modified: 6/28/2011 9:53:41 AM

Curves

Standard Curve

