

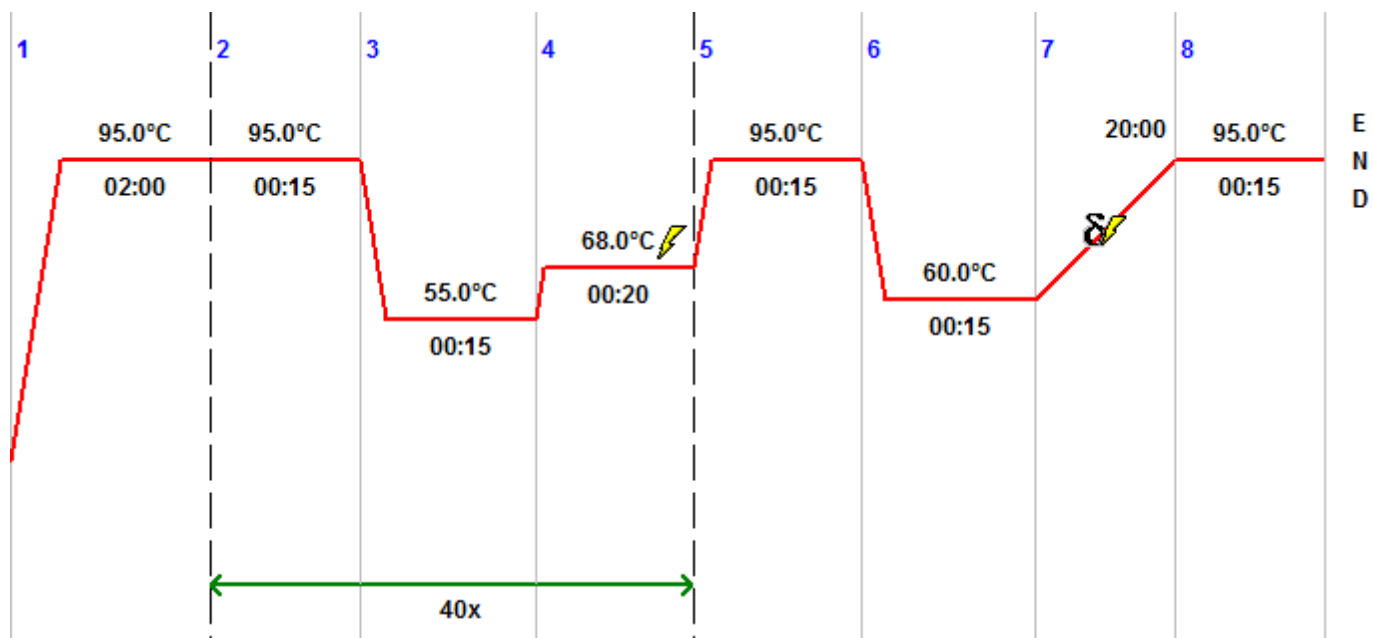
## Document information

Software:	realplex 2.2	
File Name:	EPPENDORF\Svenja\Test qPCR ILWE	
Printed by:	EPPENDORF	
Created:	Oct/25/2018 12:58	
Serial No. Thermo Module:	6325 30387	
Serial No. realplex Module.:	630011465	
Acquisition Start Time:	EPPENDORF	Oct/25/2018 13:02
Acquisition End Time:	EPPENDORF	Oct/25/2018 14:30
Last updated:	EPPENDORF	Jul/09/2018 13:50
Background:	Sarstedt-20µl	Sep/12/2011 10:28
Color Calibration:	SYBR	Mar/12/2018 15:31
Test qPCR ILWE	Quantification	Oct/25/2018 14:55
	Melting Curve	Oct/25/2018 14:58
Inverted Data:	OFF	
Comment:		

## Plate layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
B	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
C	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
D	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
E	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
F	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
G	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00	ILWE_Z... 1: 1.00
H	NTC	NTC	NTC	NTC	NTC	NTC	water	water	water	water	water	water

## PCR Program

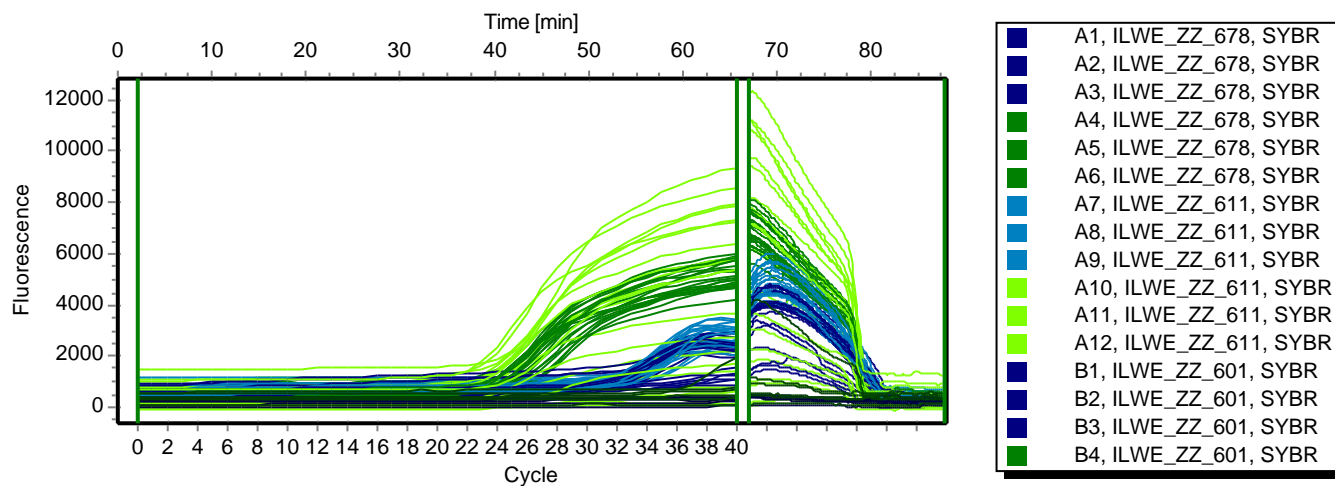


## Program Header

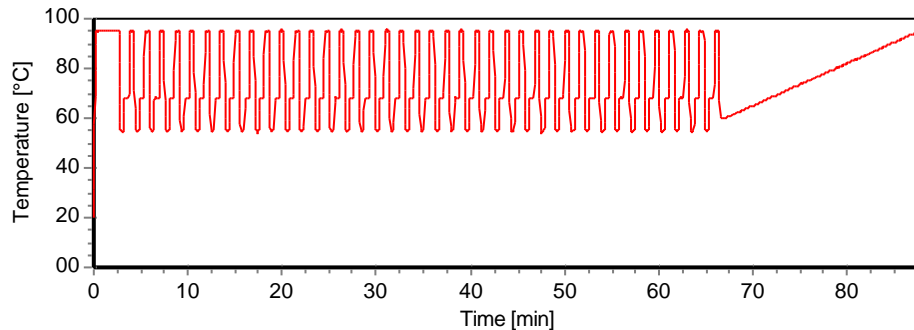
Lid Temp	105 °C	TSP Heated Lid	Yes
Temp. Mode	Standard	Switch off lid at low block temp	No
Impulse	No	Simulate Mastercycler gradient	No

## Raw Data SYBR







































































### Fluorescence Profile







































































































### Temperature Profile



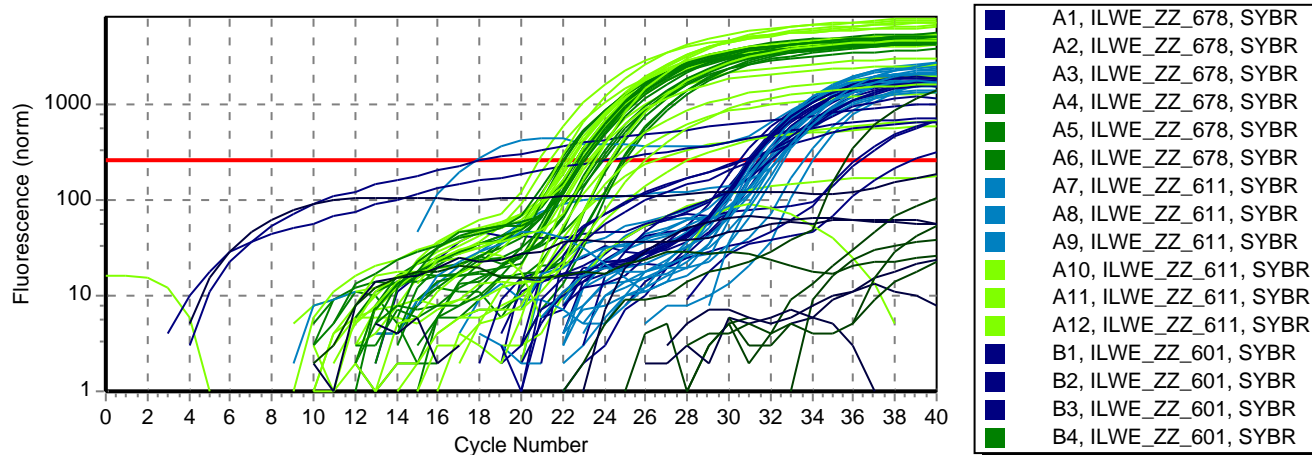
## Quantification SYBR

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  A1	ILWE_ZZ_678	32.00	31.64	0.52	1.00			eimeria
  A2	ILWE_ZZ_678	31.88	31.64	0.52	1.00			eimeria
  A3	ILWE_ZZ_678	31.05	31.64	0.52	1.00			eimeria
  A4	ILWE_ZZ_678	24.23	24.18	0.23	1.00			mouse
  A5	ILWE_ZZ_678	23.94	24.18	0.23	1.00			mouse
  A6	ILWE_ZZ_678	24.38	24.18	0.23	1.00			mouse
  A7	ILWE_ZZ_611	31.77	31.93	0.14	1.00			eimeria
  A8	ILWE_ZZ_611	32.02	31.93	0.14	1.00			eimeria
  A9	ILWE_ZZ_611	32.00	31.93	0.14	1.00			eimeria
  A10	ILWE_ZZ_611	20.89	22.91	3.09	1.00			mouse
  A11	ILWE_ZZ_611	21.37	22.91	3.09	1.00			mouse
  A12	ILWE_ZZ_611	26.46	22.91	3.09	1.00			mouse
  B1	ILWE_ZZ_601	31.09	31.19	0.19	1.00			eimeria
  B2	ILWE_ZZ_601	31.41	31.19	0.19	1.00			eimeria
  B3	ILWE_ZZ_601	31.07	31.19	0.19	1.00			eimeria
  B4	ILWE_ZZ_601	22.67	22.62	0.04	1.00			mouse
  B5	ILWE_ZZ_601	22.59	22.62	0.04	1.00			mouse
  B6	ILWE_ZZ_601	22.61	22.62	0.04	1.00			mouse
  B7	ILWE_ZZ_530	34.01	33.31	0.87	1.00			eimeria
  B8	ILWE_ZZ_530	33.58	33.31	0.87	1.00			eimeria
  B9	ILWE_ZZ_530	32.34	33.31	0.87	1.00			eimeria
  B10	ILWE_ZZ_530	22.40	22.81	0.58	1.00			mouse
  B11	ILWE_ZZ_530	23.22	22.81	0.58	1.00			mouse
  B12	ILWE_ZZ_530		22.81	0.58	1.00			mouse
  C1	ILWE_ZZ_583	36.35	37.08	1.51	1.00			eimeria
  C2	ILWE_ZZ_583	38.82	37.08	1.51	1.00			eimeria
  C3	ILWE_ZZ_583	36.07	37.08	1.51	1.00			eimeria
  C4	ILWE_ZZ_583	24.85	24.90	0.07	1.00			mouse
  C5	ILWE_ZZ_583	24.86	24.90	0.07	1.00			mouse
  C6	ILWE_ZZ_583	24.98	24.90	0.07	1.00			mouse
  C7	ILWE_ZZ_572	31.14	26.86	7.89	1.00			eimeria
  C8	ILWE_ZZ_572	17.76	26.86	7.89	1.00			eimeria
  C9	ILWE_ZZ_572	31.68	26.86	7.89	1.00			eimeria
  C10	ILWE_ZZ_572	22.39	23.45	1.50	1.00			mouse
  C11	ILWE_ZZ_572	22.79	23.45	1.50	1.00			mouse

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  C12	ILWE_ZZ_572	25.17	23.45	1.50	1.00			mouse
  D1	ILWE_ZZ_604	31.61	31.01	0.56	1.00			eimeria
  D2	ILWE_ZZ_604	30.90	31.01	0.56	1.00			eimeria
  D3	ILWE_ZZ_604	30.50	31.01	0.56	1.00			eimeria
  D4	ILWE_ZZ_604	22.79	22.78	0.13	1.00			mouse
  D5	ILWE_ZZ_604	22.91	22.78	0.13	1.00			mouse
  D6	ILWE_ZZ_604	22.66	22.78	0.13	1.00			mouse
  D7	ILWE_ZZ_632	32.07	32.23	0.14	1.00			eimeria
  D8	ILWE_ZZ_632	32.33	32.23	0.14	1.00			eimeria
  D9	ILWE_ZZ_632	32.28	32.23	0.14	1.00			eimeria
  D10	ILWE_ZZ_632	22.61	24.52	3.03	1.00			mouse
  D11	ILWE_ZZ_632	22.92	24.52	3.03	1.00			mouse
  D12	ILWE_ZZ_632	28.01	24.52	3.03	1.00			mouse
  E1	ILWE_ZZ_588	18.09	24.26	6.33	1.00			eimeria
  E2	ILWE_ZZ_588	30.73	24.26	6.33	1.00			eimeria
  E3	ILWE_ZZ_588	23.97	24.26	6.33	1.00			eimeria
  E4	ILWE_ZZ_588	23.82	23.64	0.19	1.00			mouse
  E5	ILWE_ZZ_588	23.65	23.64	0.19	1.00			mouse
  E6	ILWE_ZZ_588	23.45	23.64	0.19	1.00			mouse
  E7	ILWE_ZZ_555	31.05	31.06	0.09	1.00			eimeria
  E8	ILWE_ZZ_555	31.15	31.06	0.09	1.00			eimeria
  E9	ILWE_ZZ_555	30.97	31.06	0.09	1.00			eimeria
  E10	ILWE_ZZ_555	22.33	23.35	1.45	1.00			mouse
  E11	ILWE_ZZ_555	24.38	23.35	1.45	1.00			mouse
  E12	ILWE_ZZ_555		23.35	1.45	1.00			mouse
  F1	ILWE_ZZ_585	30.59	31.25	0.69	1.00			eimeria
  F2	ILWE_ZZ_585	31.17	31.25	0.69	1.00			eimeria
  F3	ILWE_ZZ_585	31.98	31.25	0.69	1.00			eimeria
  F4	ILWE_ZZ_585	21.96	21.97	0.09	1.00			mouse
  F5	ILWE_ZZ_585	21.88	21.97	0.09	1.00			mouse
  F6	ILWE_ZZ_585	22.06	21.97	0.09	1.00			mouse
  F7	ILWE_ZZ_602	31.56	31.34	0.21	1.00			eimeria
  F8	ILWE_ZZ_602	31.15	31.34	0.21	1.00			eimeria
  F9	ILWE_ZZ_602	31.30	31.34	0.21	1.00			eimeria
  F10	ILWE_ZZ_602	21.85	22.46	0.77	1.00			mouse
  F11	ILWE_ZZ_602	22.19	22.46	0.77	1.00			mouse
  F12	ILWE_ZZ_602	23.32	22.46	0.77	1.00			mouse
  G1	ILWE_ZZ_640	31.14	31.08	0.06	1.00			eimeria
  G2	ILWE_ZZ_640	31.02	31.08	0.06	1.00			eimeria

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
 G3	ILWE_ZZ_640	31.07	31.08	0.06	1.00			eimeria
 G4	ILWE_ZZ_640	23.02	22.98	0.07	1.00			mouse
 G5	ILWE_ZZ_640	23.02	22.98	0.07	1.00			mouse
 G6	ILWE_ZZ_640	22.89	22.98	0.07	1.00			mouse
 G7	ILWE_ZZ_597	31.54	32.22	0.60	1.00			eimeria
 G8	ILWE_ZZ_597	32.48	32.22	0.60	1.00			eimeria
 G9	ILWE_ZZ_597	32.65	32.22	0.60	1.00			eimeria
 G10	ILWE_ZZ_597	23.53	24.58	1.27	1.00			mouse
 G11	ILWE_ZZ_597	24.21	24.58	1.27	1.00			mouse
 G12	ILWE_ZZ_597	25.99	24.58	1.27	1.00			mouse
 H1	NTC	-			-			eimeria
 H2	NTC	-			-			eimeria
 H3	NTC	-			-			eimeria
 H4	NTC	-			-			mouse
 H5	NTC	-			-			mouse
 H6	NTC	35.62			-			mouse
 H7	water	-			-			eimeria
 H8	water	-			-			eimeria
 H9	water	-			-			eimeria
 H10	water	-			-			mouse
 H11	water	-			-			mouse
 H12	water	-			-			mouse

## Amplification Plot



## Standard curve

































Slope - R<sup>2</sup> -





















Y-Intercept - Efficiency -



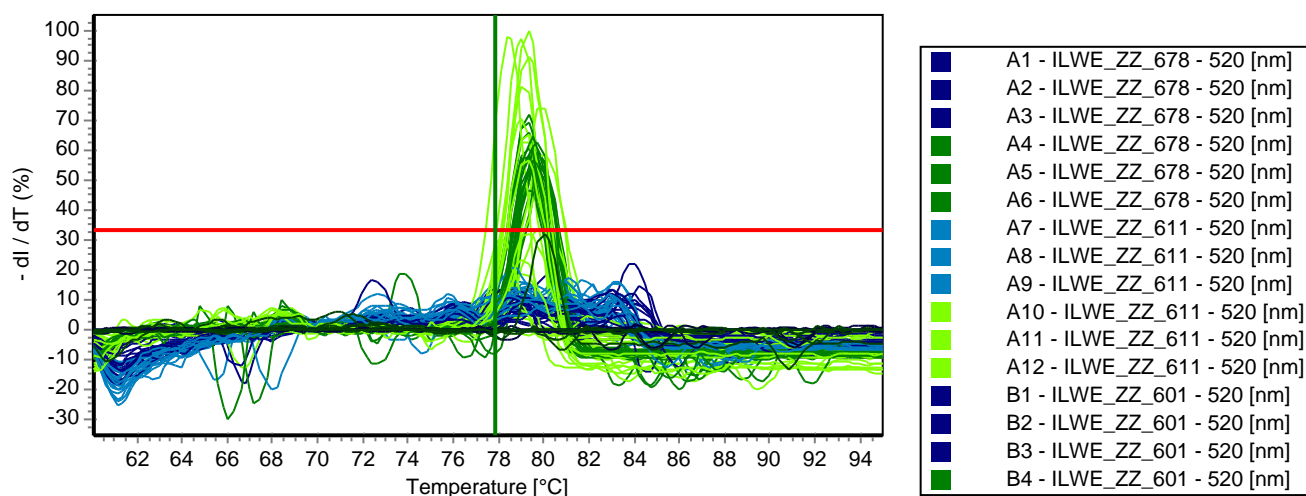
## Melting Curve SYBR

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 A1	ILWE_ZZ_678	0				
 A2	ILWE_ZZ_678	0				
 A3	ILWE_ZZ_678	0				
 A4	ILWE_ZZ_678	1	79.9			
 A5	ILWE_ZZ_678	1	79.9			
 A6	ILWE_ZZ_678	1	80.0			
 A7	ILWE_ZZ_611	0				
 A8	ILWE_ZZ_611	0				
 A9	ILWE_ZZ_611	0				
 A10	ILWE_ZZ_611	1	79.9			
 A11	ILWE_ZZ_611	1	79.9			
 A12	ILWE_ZZ_611	0				
 B1	ILWE_ZZ_601	0				
 B2	ILWE_ZZ_601	0				
 B3	ILWE_ZZ_601	0				
 B4	ILWE_ZZ_601	1	79.7			
 B5	ILWE_ZZ_601	1	79.8			
 B6	ILWE_ZZ_601	1	79.8			
 B7	ILWE_ZZ_530	0				
 B8	ILWE_ZZ_530	0				
 B9	ILWE_ZZ_530	0				
 B10	ILWE_ZZ_530	1	80.0			
 B11	ILWE_ZZ_530	1	79.9			
 B12	ILWE_ZZ_530	0				
 C1	ILWE_ZZ_583	0				
 C2	ILWE_ZZ_583	0				
 C3	ILWE_ZZ_583	0				
 C4	ILWE_ZZ_583	1	79.5			
 C5	ILWE_ZZ_583	1	79.5			
 C6	ILWE_ZZ_583	1	79.4			
 C7	ILWE_ZZ_572	0				
 C8	ILWE_ZZ_572	0				
 C9	ILWE_ZZ_572	0				
 C10	ILWE_ZZ_572	1	79.1			
 C11	ILWE_ZZ_572	1	79.2			
 C12	ILWE_ZZ_572	0				

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 D1	ILWE_ZZ_604	0				
 D2	ILWE_ZZ_604	0				
 D3	ILWE_ZZ_604	0				
 D4	ILWE_ZZ_604	1	79.2			
 D5	ILWE_ZZ_604	1	79.3			
 D6	ILWE_ZZ_604	1	79.3			
 D7	ILWE_ZZ_632	0				
 D8	ILWE_ZZ_632	0				
 D9	ILWE_ZZ_632	0				
 D10	ILWE_ZZ_632	1	79.0			
 D11	ILWE_ZZ_632	1	79.0			
 D12	ILWE_ZZ_632	0				
 E1	ILWE_ZZ_588	0				
 E2	ILWE_ZZ_588	0				
 E3	ILWE_ZZ_588	0				
 E4	ILWE_ZZ_588	1	79.2			
 E5	ILWE_ZZ_588	1	79.2			
 E6	ILWE_ZZ_588	1	79.3			
 E7	ILWE_ZZ_555	0				
 E8	ILWE_ZZ_555	0				
 E9	ILWE_ZZ_555	0				
 E10	ILWE_ZZ_555	1	78.4			
 E11	ILWE_ZZ_555	0				
 E12	ILWE_ZZ_555	0				
 F1	ILWE_ZZ_585	0				
 F2	ILWE_ZZ_585	0				
 F3	ILWE_ZZ_585	0				
 F4	ILWE_ZZ_585	1	79.5			
 F5	ILWE_ZZ_585	1	79.5			
 F6	ILWE_ZZ_585	1	79.5			
 F7	ILWE_ZZ_602	0				
 F8	ILWE_ZZ_602	0				
 F9	ILWE_ZZ_602	0				
 F10	ILWE_ZZ_602	1	79.3			
 F11	ILWE_ZZ_602	1	79.3			
 F12	ILWE_ZZ_602	0				
 G1	ILWE_ZZ_640	0				
 G2	ILWE_ZZ_640	0				
 G3	ILWE_ZZ_640	0				
 G4	ILWE_ZZ_640	1	79.5			

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 G5	ILWE_ZZ_640	1	79.6			
 G6	ILWE_ZZ_640	1	79.7			
 G7	ILWE_ZZ_597	0				
 G8	ILWE_ZZ_597	0				
 G9	ILWE_ZZ_597	0				
 G10	ILWE_ZZ_597	1	79.3			
 G11	ILWE_ZZ_597	1	79.2			
 G12	ILWE_ZZ_597	0				
 H1	NTC	0				
 H2	NTC	0				
 H3	NTC	0				
 H4	NTC	0				
 H5	NTC	0				
 H6	NTC	0				
 H7	water	0				
 H8	water	0				
 H9	water	0				
 H10	water	0				
 H11	water	0				
 H12	water	0				

## Melting curve



Threshold 33%

