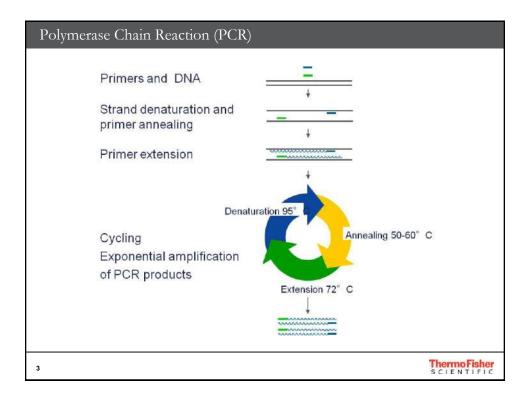
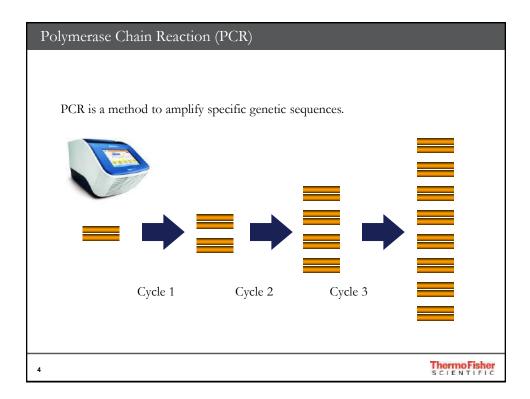
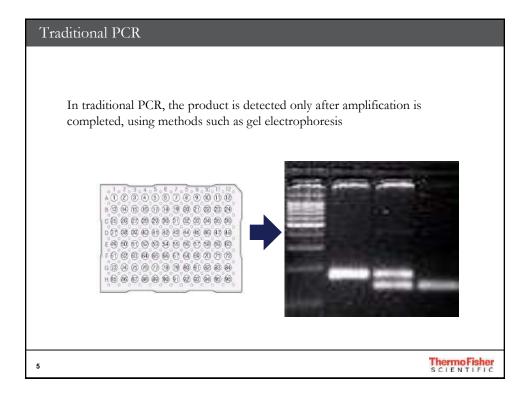
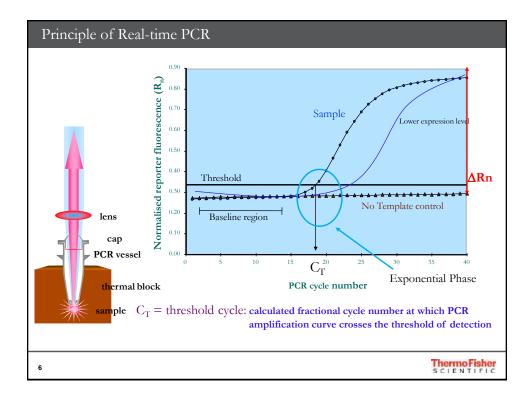


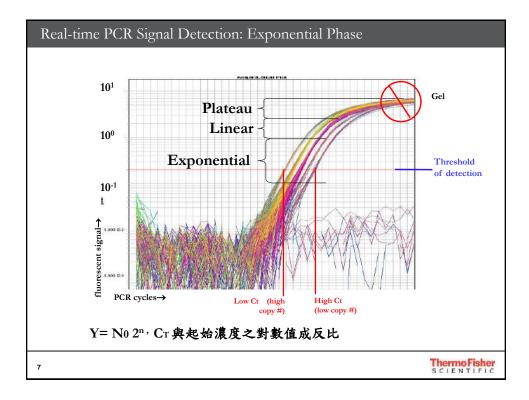
Agenda	
 Principle of Real-time PCR TaqMan[®] V.S. SYBR[®] Green 	
 Real-time PCR Application Reverse Transcription and Real-time PCR Reaction Assay design 	
 Predesigned Assay Search Primer Express 	
 QuantStudio[™] 3 Real-Time PCR System Thermo Fisher Cloud 	
2	SCIENTIFIC

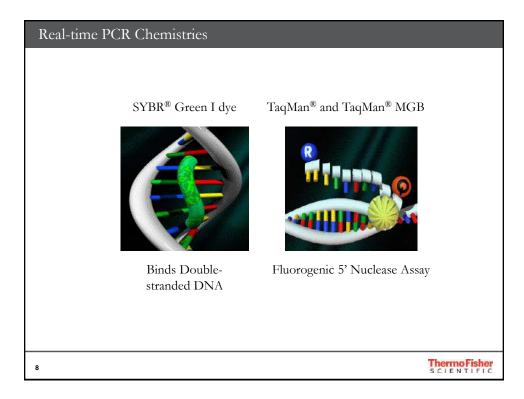


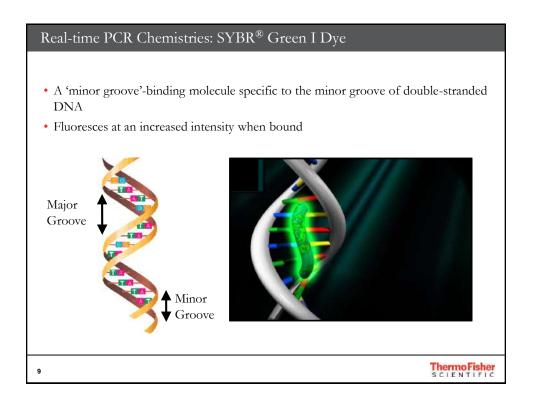


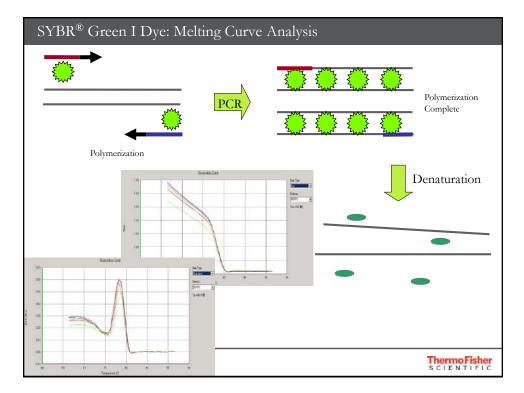


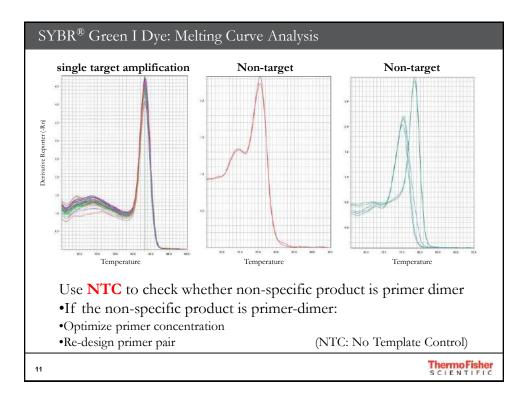


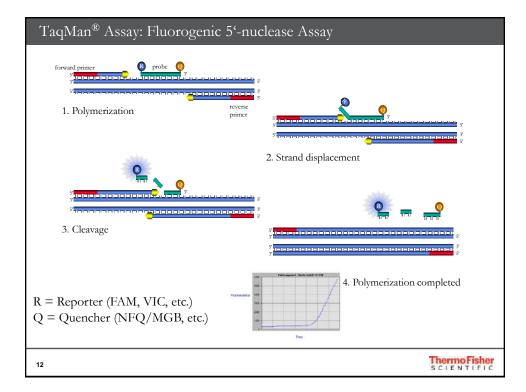


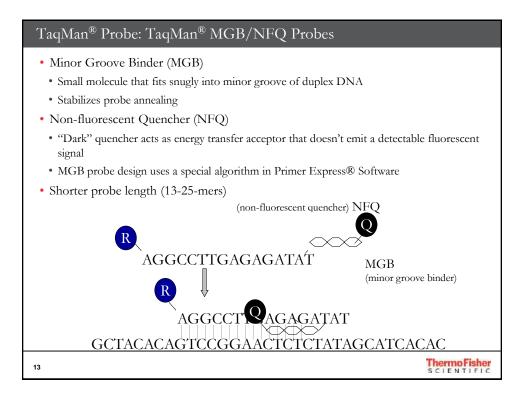




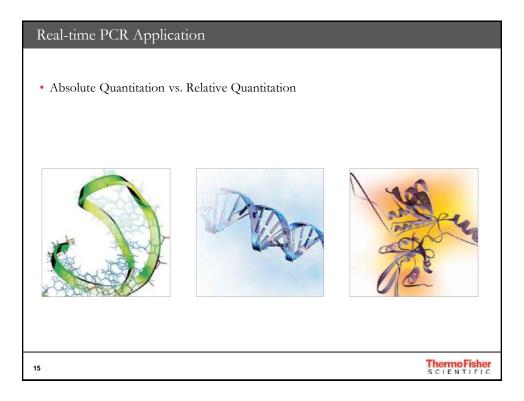


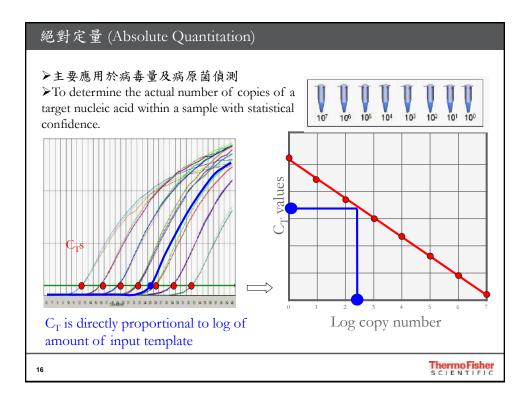


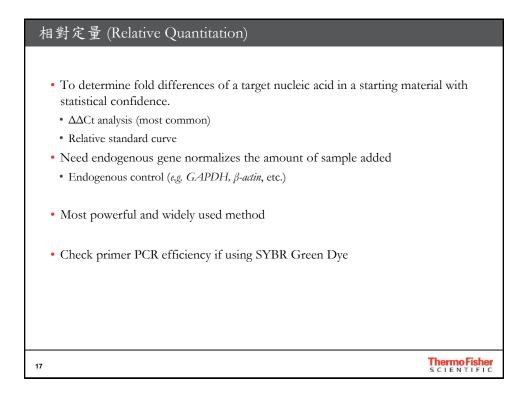


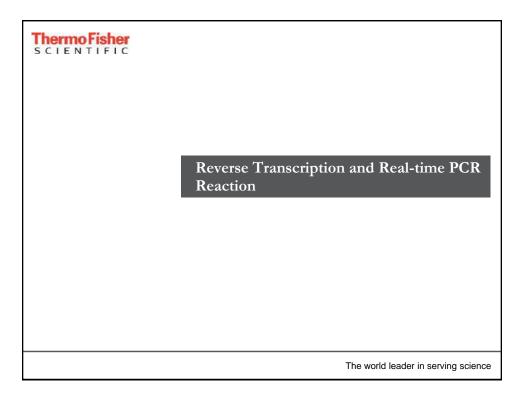


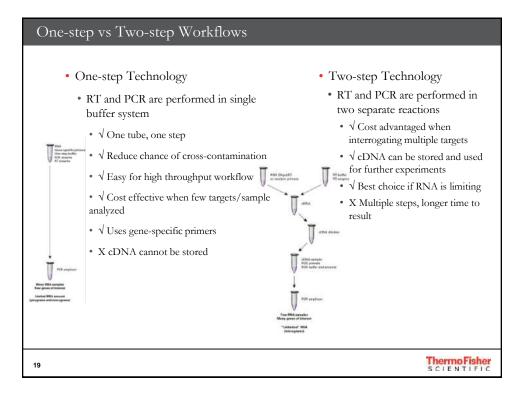
Real-time PCR Chemistries						
	TaqMan [®] Assay	SYBR [®] Green I Dye				
Specificity	More specific	Less specific				
	Probe hybridization					
Sensitivity	Very high	Very high				
Flexibility	Multiplex PCR	No probe required				
	SNP detection	Screening tool				
	+/- application					
Optimization	Ready to use 20x primer/probe mix - no need to optimize	Need to optimize PCR program				
	Gold standard for MAQC	Need to check primer-dimer info				
	PCR efficiency 100±10%	Need to check PCR efficiency				
14		SCIENTIFIC				



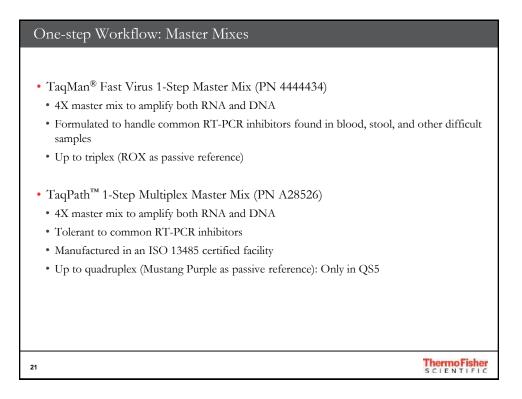






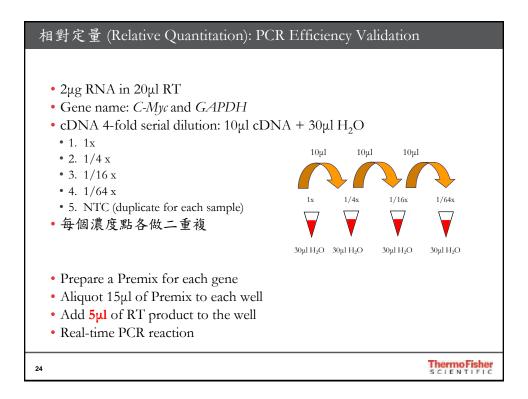


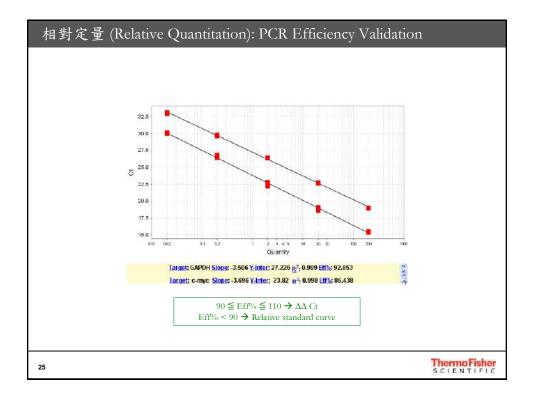
	Virus 1-Step Master Mix		n N	otes
agMan [®] Gene Exp		5 µL		
	pression Assay (20X)	1 µL	If you are not using pre-for Expression Assays, Applier primer concentrations of 4 concentration of 100 to 250	Biosystems recommends 00 to 900 nM and a probe
Sample		Variable	Use as much sample as ne allowed by the reaction vol	
RT-PCR Grade Wat	ter	Variable	Fill to the total reaction volu	ime.
fotal volume per r	reaction	20 µL	-	
		For sample volumes ≤30	uL	
Run mode	Default [†]	For sample volumes <30	uL	
Thermal	Default [†]		of cycles Temperature	Time
10000000000				5 minutes
Thermal cycling	Step	Stage No.	of cycles Temperature	
Thermal cycling	Step Reverse transcription	Stage No.	of cycles Temperature 1 50 °C [‡]	5 minutes

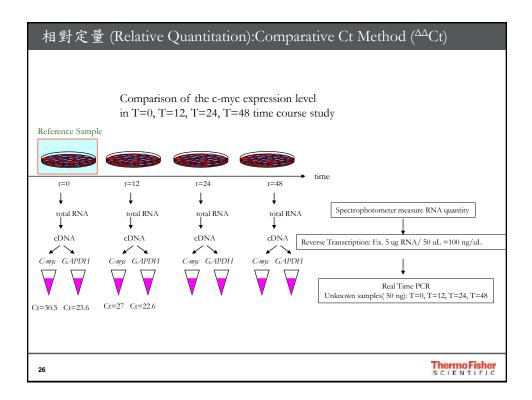


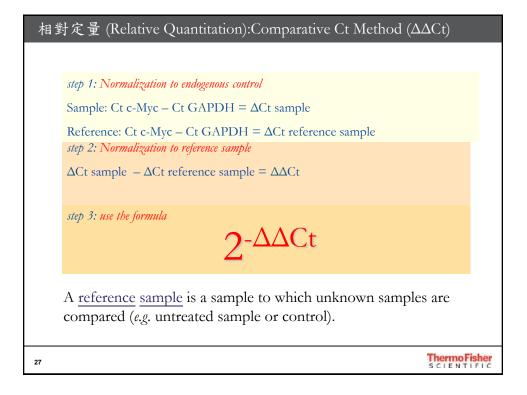
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	PCR condi 50°C, 2min 95 °C, 10 m	nin ec] 40 cycles	PCR co 95 °C, 2	Fast mode ndition: 0 sec sec 40 cyd	- (20µl YBR Green: Check Primer Concentration Add Melt Curve Program
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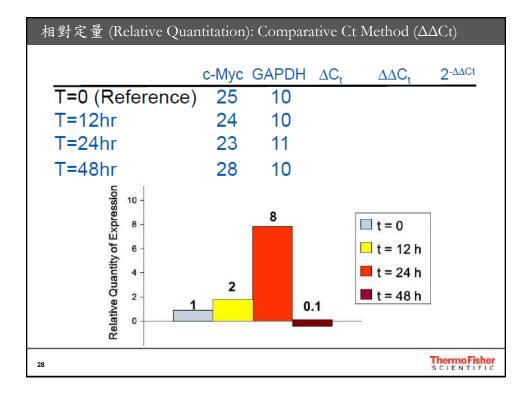


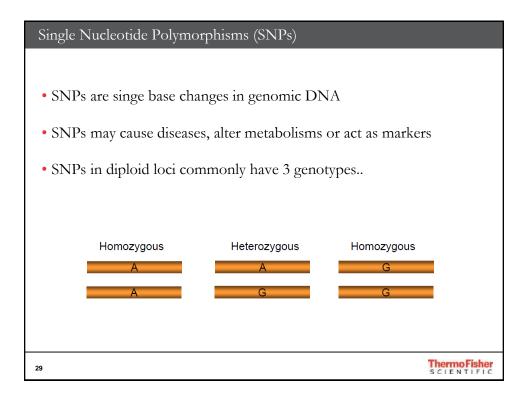


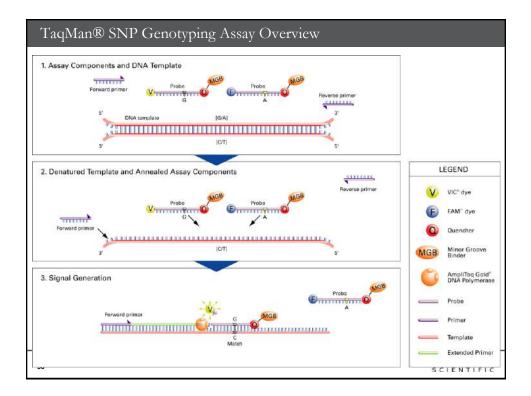


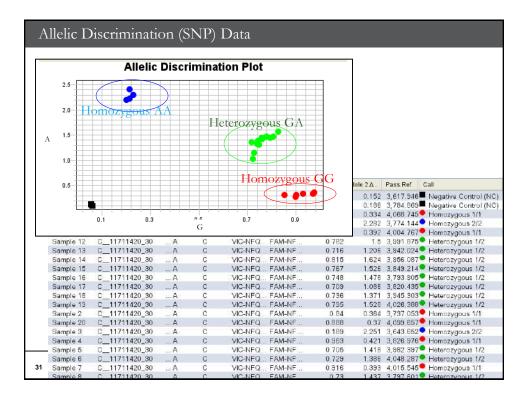










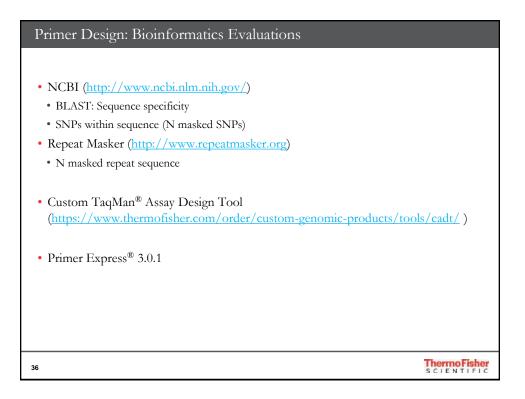


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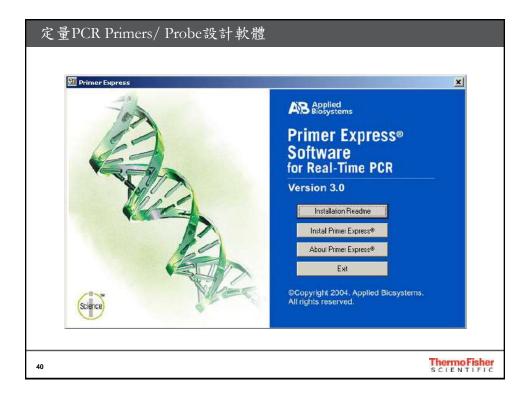
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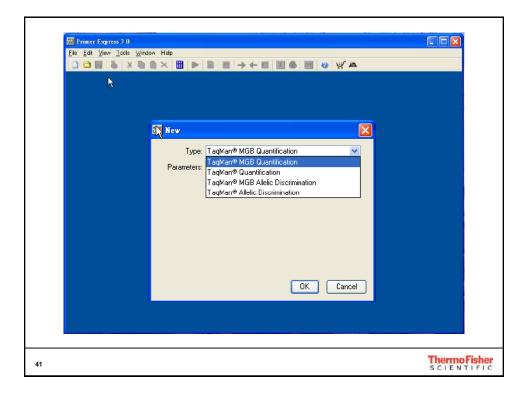


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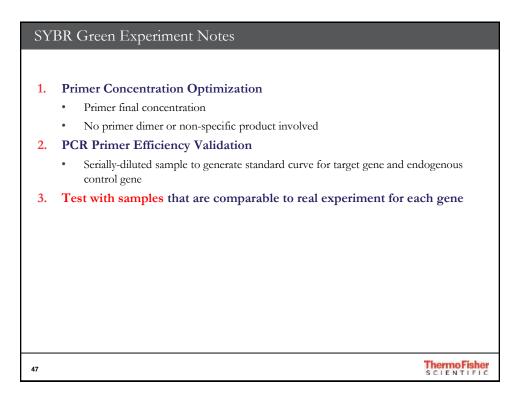




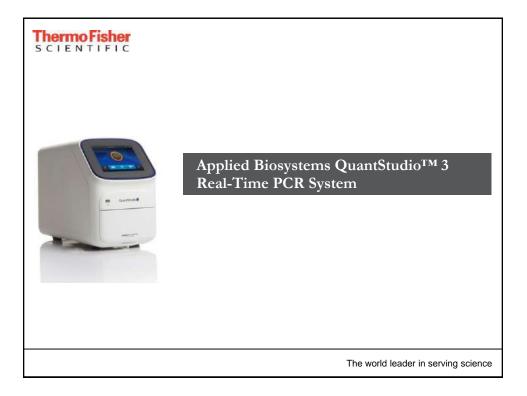
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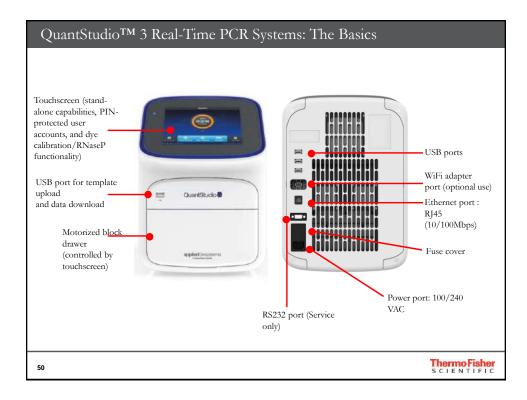
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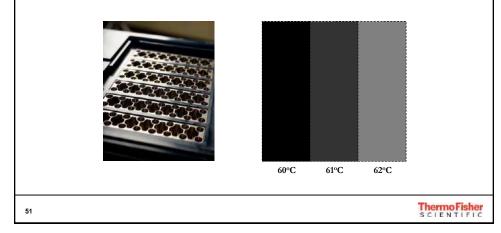




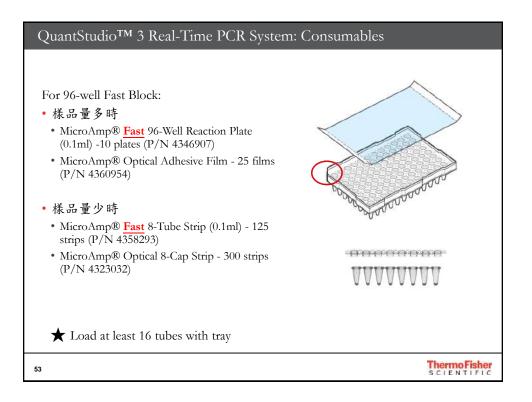
QuantStudioTM 3 Real-Time PCR System: The Basics

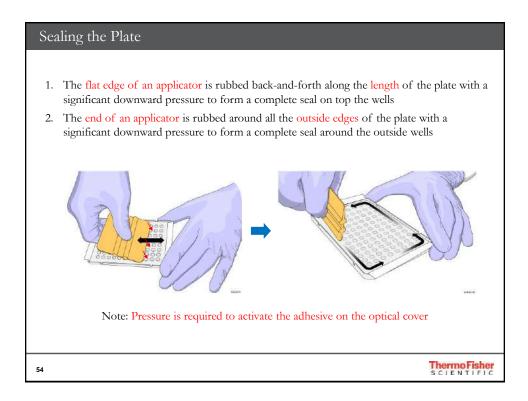
• VeriFlexTM Block with 3 programmable zones

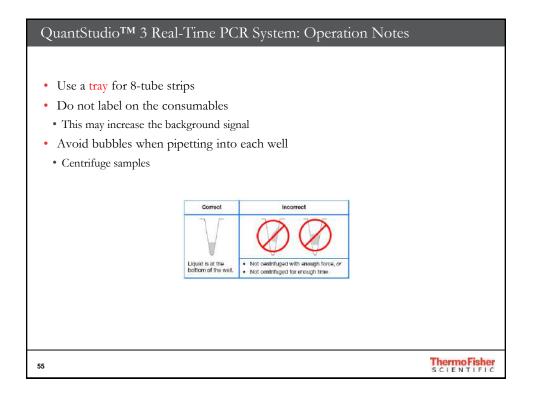
- Independent temperature control in each zone (more precise than gradient)
- Can program at will, including multiple zones with same temp
- Great for optimization and also running multiple assays at the same time

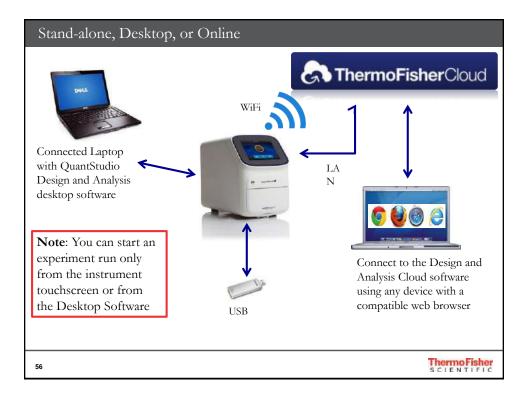


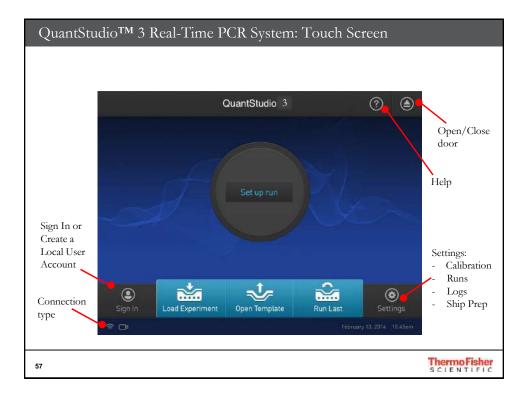
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- VIC [®] /JOE [™] dyes	x2-m2	Green	520 ± 10	558 ± 12	VIC®	HEX [™] , TET [™] , and JOE ^{™[2]}
- ROX TM dye	x3-m3	Yellow	550 ± 10	587 ± 10	ABY [®] , NED [™] , and TAMRA [™]	Cy®3
- NED TM /TAMRA TM dye	x4-m4	Orange	580 ± 10	623 ± 14	JUN [®] and ROX [™]	Texas Red®
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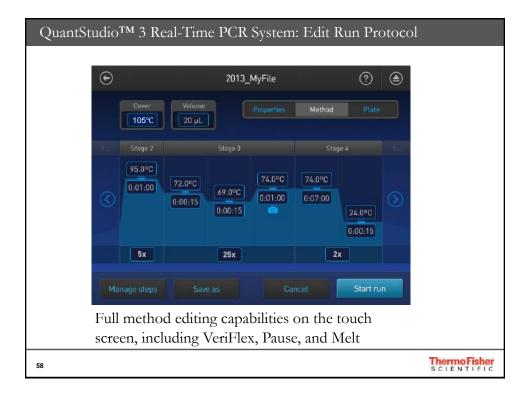


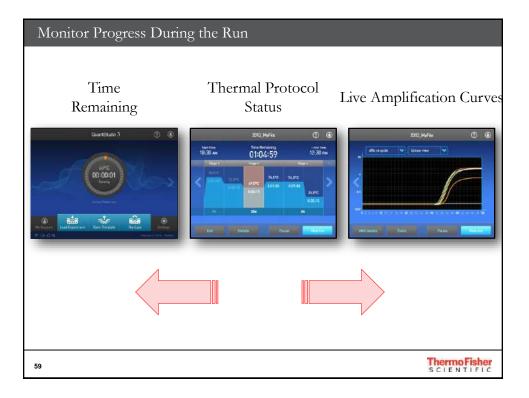


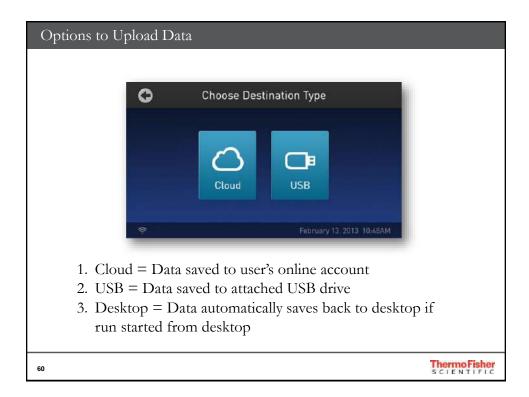


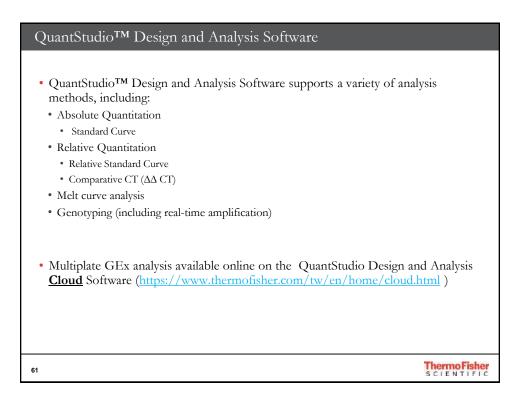






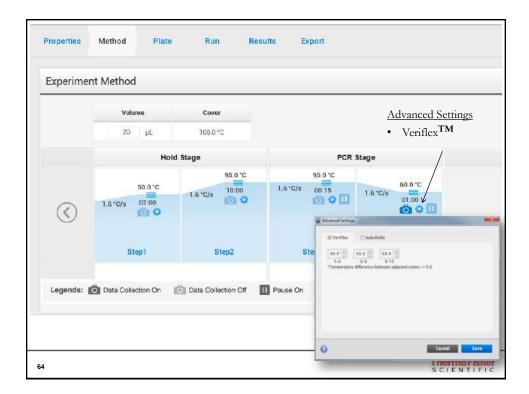






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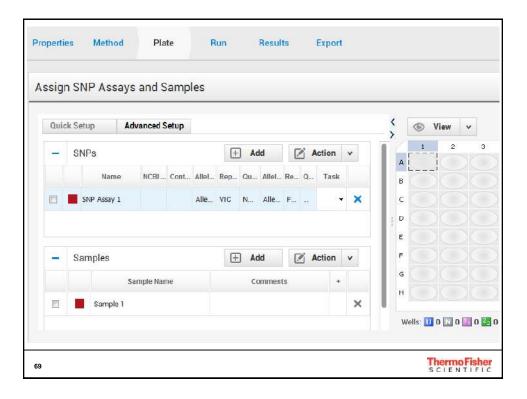


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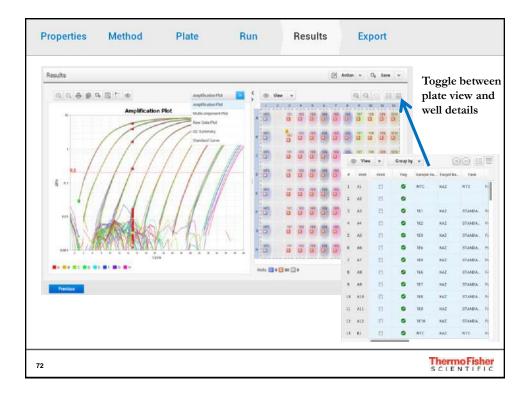
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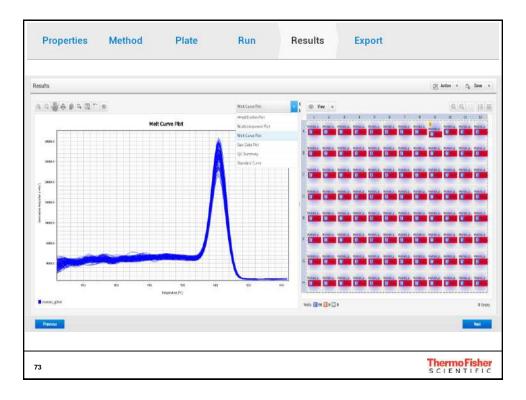
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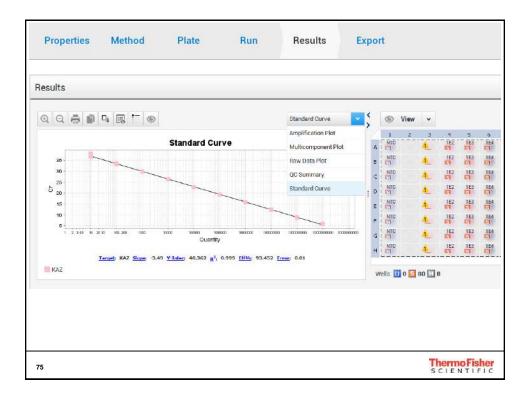


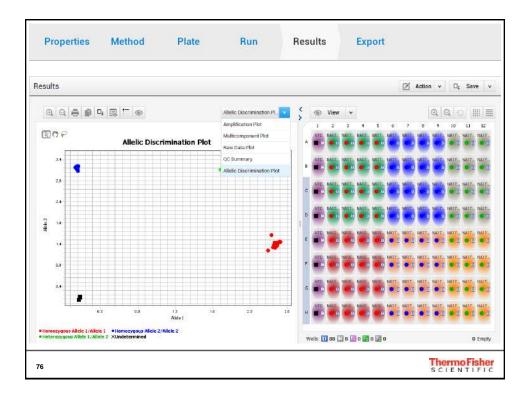
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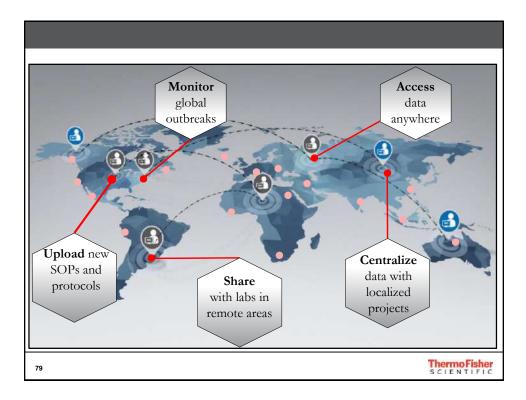
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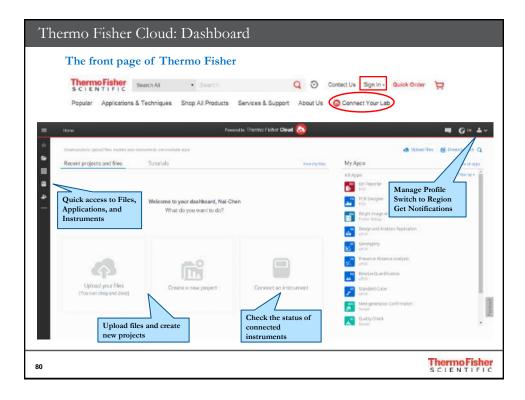




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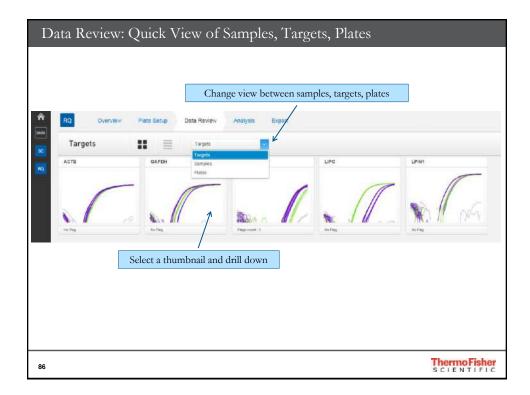
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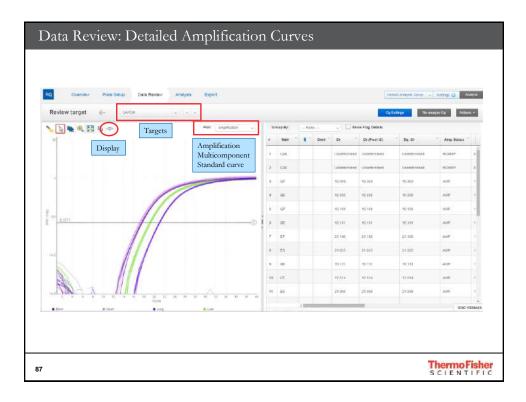
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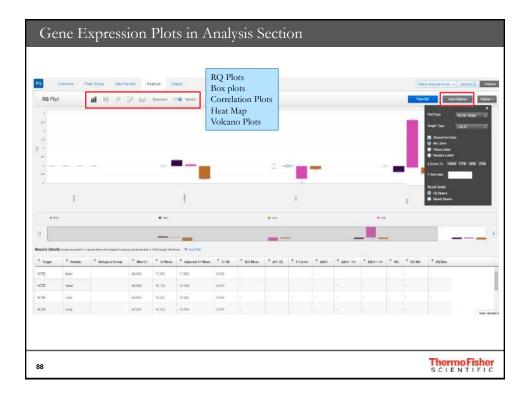
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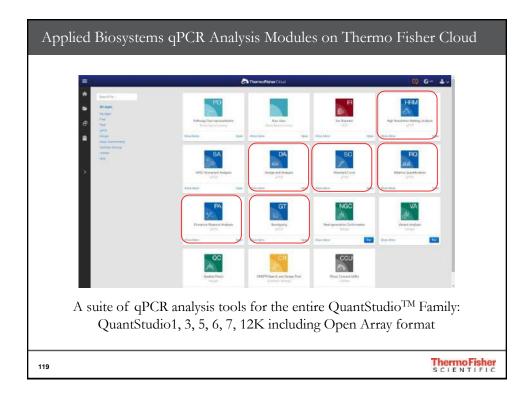
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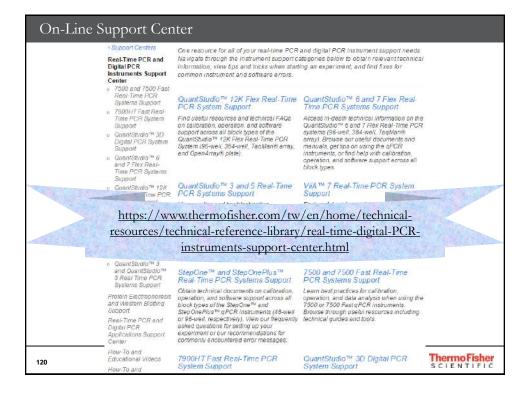






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On-Line Support Center

Real-Time PCR and Digital PCR Applications Support Center

