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	TTV HAS MAJOR IMPACT ON ULTRATHIN DIE								
	Wafer Thinning Target Thickness	8 μm TTV to thickness ratio	TTV effect on 3 pt bend die strength						
	0.150 mm	5.3% (0.146-0.154mm)	10.6%						
	0.100 mm	8% (0.096-0.104mm)	16.0%						
	0.050 mm	16% (0.046-0.054mm)	32.0%						
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					-9	
		Surface	Side	Back Side	Edge	
	Conventional					
	DBG				2	
	DBG+CMP					
	RIE- DBG+CMP					
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	46
 Summary of Ultrathin Technolog Dice Before Grind Thickness as low as 10um available High flexibility High scatter of die strength After DAG laser or blade saw 	ду
 After DBG Independent of test methods Predictable by 5 side inspection Chemical Smoothening of 5 sides Decreases scatter dramatically Die attach using DAF 10um thickness available Interconnect Metal patterning	
- Bump (Bump after thinning)	CPMT-SCV Luncheon Talk Jan 28, 2010 annette@corwil.com

