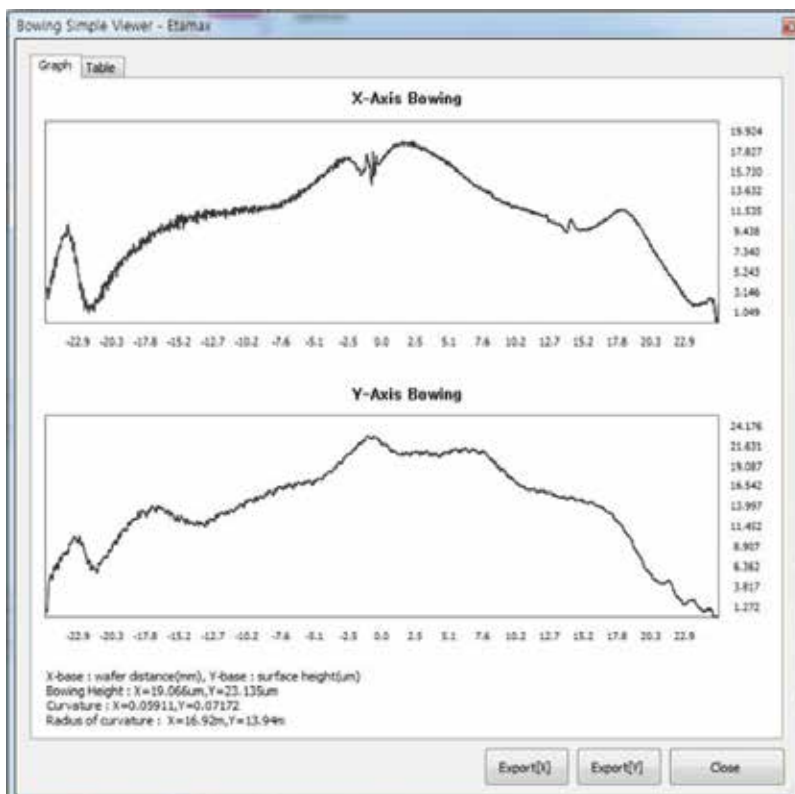


## Bowing Measurement by Etamax



## Bowing Height

$$X = \sim 19 \mu\text{m}$$

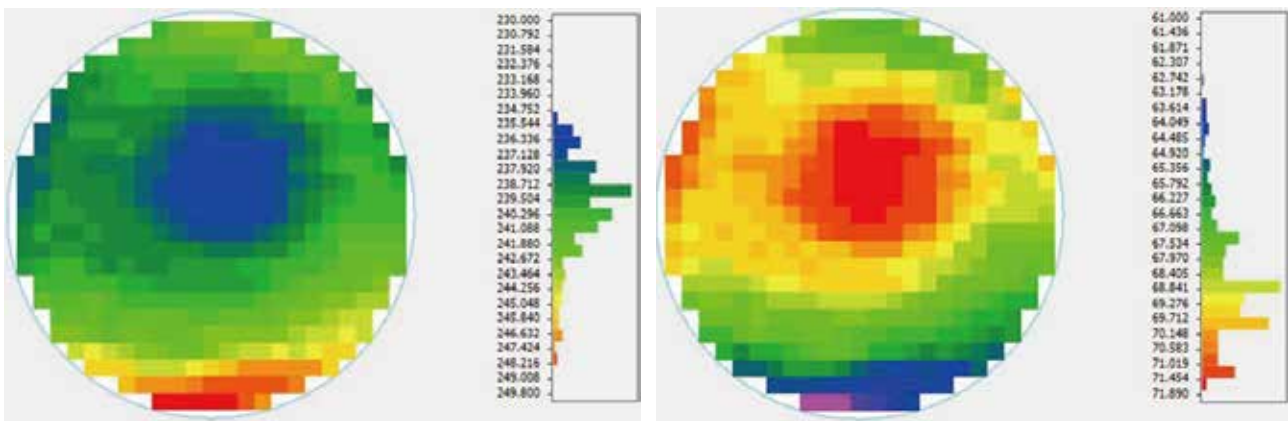
$$Y = \sim 23 \mu\text{m}$$



## AlGaN on AlN/Sapphire Template

Layer Structure	Thickness AlGaN / AlN	Al <sub>x</sub> Ga <sub>1-x</sub> N Composition	AlN (arcsec)		AlGaN (arcsec)		Mapping
			(002)	(102)	(002)	(102)	
AlGaN/AlN/Sapphire	0.798um / 2.94um	62.3 %	156	479	321	455	5 points
AlGaN/AlN/Sapphire	0.955um / 2.83um	67.6 %	146	377	278	357	5 points
AlGaN/AlN/Sapphire	1.15um / 2.87um	65.2 %	179	389	310	399	5 points
AlGaN/AlN/Sapphire	1.61um / 2.83um	65.0 %	168	386	308	441	5 points

## AlGaN on AlN/Sapphire Template: PL Mapping Data



Wavelength

Al Composition