



## AN 371

## SIMS Detection Limits of Selected Elements in GaAs Under Normal Depth Profiling Conditions

May 7, 2007 (Version 4.0)

O <sub>2</sub> /SIMS Positive Secondary Ion Detection		Cs/SIMS Negative Secondary Ion Detection		Cs/SIMS Positive Secondary Ion Detection (CsM <sup>+</sup> )	
Element	DL (atoms/cm <sup>3</sup> )	Element	DL (atoms/cm <sup>3</sup> )	Element	DL (atoms/cm <sup>3</sup> )
Be	1E+13	H*	8E+16 - 2E+17	Mg	1E+15
Li	5E+13	Be	1E+14	Zn	1E+15
B	1E+14	B	2E+14	Ar	1E+17
Na	5E+14	C*	5E+15 - 2E+16	Cd	6E+15
Mg	1E+14	N*	1E+16 - 3E+16		
Al	1E+15	O*	1E+16 - 3E+16		
K	5E+14	F	5E+14		
Ca	1E+14	Si	5E+14		
Ti	5E+14	P	1E+16		
Cr	2E+13	S	2E+14		
Fe	2E+14	Cl	2E+15		
Ni	2E+15	Cu	1E+16		
Mn	1E+13	Ge	2E+15		
Co	1E+15	Br	5E+14		
Cu	1E+16	Se	1E+13		
Zn	1E+17	Sb	2E+15		
In	1E+15	Sn	5E+15		
Ag	1E+15	Te	1E+13		
Mo	1E+15	W	7E+16		
W	1E+16	Au	5E+14		

\*Varies with vacuum conditions

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