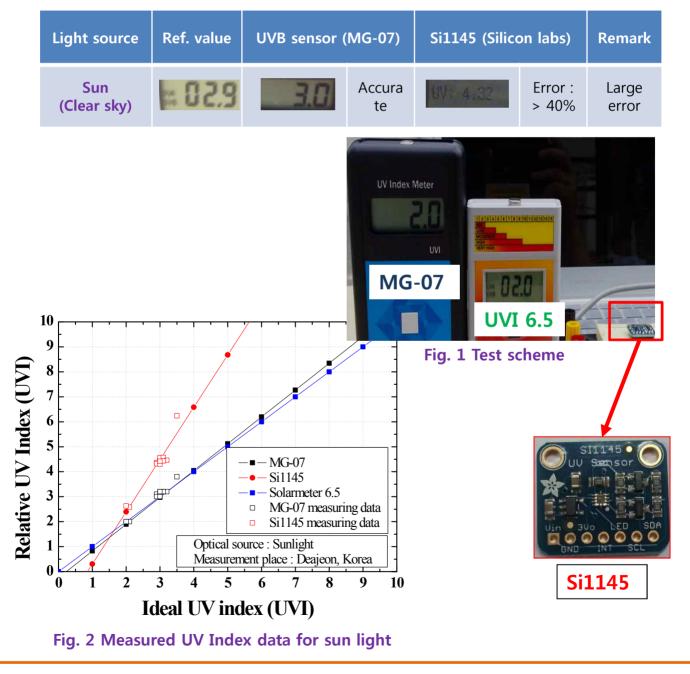
Comparison for UV Sensors of Genicom's GaN-based and Si Lab's Si-based

1. Purpose: Test for accurate UV Index measurement

2. Test sample

- 1) Reference UVI meter : Solarmeter 6.5 (Solartech Co.)
- 2) GaN-based UVB sensor : MG-07 UVI meter (Genicom Co.)
- 3) Si-based UV sensor : Si1145 (Silicon Labs Co.)

3. Test Results



Light source	Ref. value	UVB sensor (MG-07)		Si1145 (Silicon labs)	
UVB lamp (305nm peak)	a 45.6	45.8	Normal	Vis: 268 IR: 298 UV: 0.06	No response for UV ray Error
UVA lamp (352nm peak)	≈ 0 1.3	5.1	operation	Vis: 275 IR: 307 UV: 0.10	No response for UV ray Error
3-lambda lamp	ss 0 0.0	8.0	No response for visible	Vis: 845 IR: 2733 UV: 3.15	Response for visible ray Error
White LED	w. 00.0		ray (Normal operation)	Vis: 1041 IR: 3563 UV: 4.20	Response for visible ray Error
Sun light (UV cut by acryl plate)	No UV cut	No UV cut	No response for UV cut	No UV cut Vis: 993 IR: 6111 UV: 3.94	Response for UV cut. Error
	UV cut	UV cut		UV cut Vis: 839 IR: 5305 UV: 3.12	

- 4. Conclusion
- 1) Genicom's UVB sensor is very accurate and show normal operation for various environment.
- 2) Si Lab's Si1145 sensor has large error and show abnormal operation for various light sources due to just detection of visible and IR ray. It's just visible sensor not UV sensor.