

# SppKTP

Raicol SppKTP is a specialized nonlinear crystal designed for high-power applications.

## Key Features:

- Power Handling: support up to 6 times the power levels of standard PPKTP
- Low Absorption: 50% lower absorption of standard PPKTP at 532nm

## Applications:

- QKD, Squeezed light

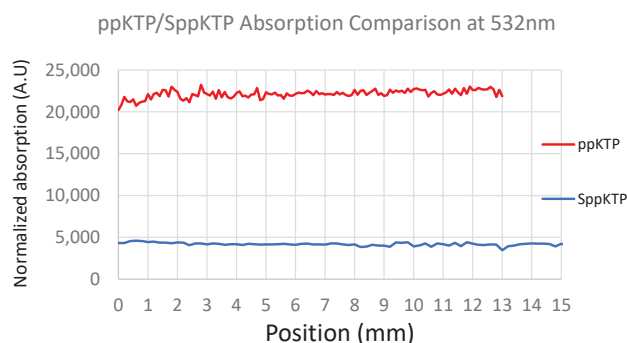
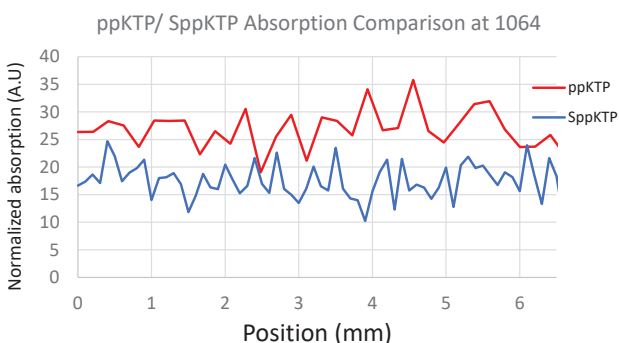
## SppKTP characterizations

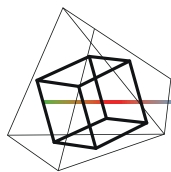
Absorption measurements scan across the crystal width and GRIIRA (Green Induced Infrared Absorption) test using Common Path Interferometer showed the following results:

	Absorption ppm / cm		
Type	Scan		GRIIRA
	1064 nm	532 nm	
KTP	23	22,000	25
SKTP	23	4200	5

## Absorption measurements

Scan to the Length of the crystal (at 1064 nm and 532 nm).

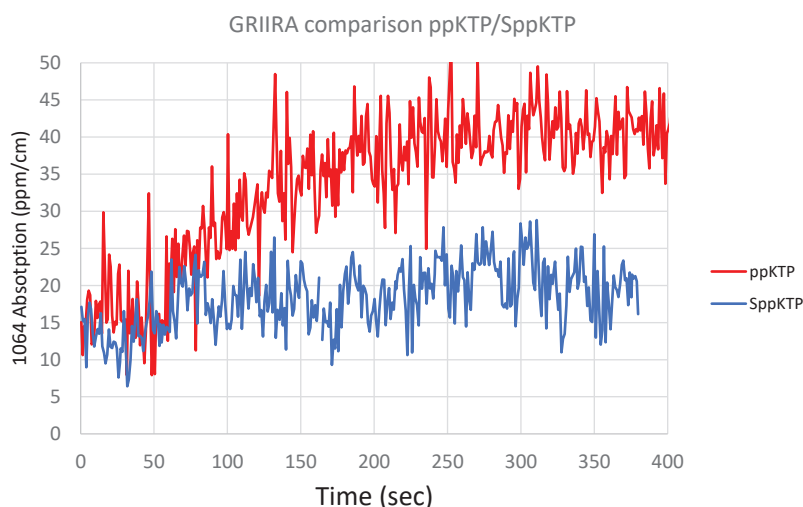




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## GRIIRA measurements

The test measurements absorption at 1064nm over time with induced 532nm as the following profile: Starting with 60 sec of the 1064nm at 15KW/cm<sup>2</sup> and then adding the 532nm at 8KW/cm<sup>2</sup> with the 1064nm at 15KW/cm<sup>2</sup>.



With its remarkable power handling capabilities and low optical absorption, Raicol SppKTP opens up new possibilities for cutting-edge research and industrial applications in the realm of high-power nonlinear optics.

**Raicol Crystals, founded in 1995, is a global leader in nonlinear crystals growth, fabrication, and assembly. Raicol offers a unique set of benefits to its customers:**

- 50 years of experience in crystal growth
- Global pioneers of RTP, HGTR KTP and PPKTP
- A one-stop-shop, from crystal growth to coating and EO cell assembly
- Mass production and small R&D volume capabilities
- Fast delivery times
- Unmatched crystal quality