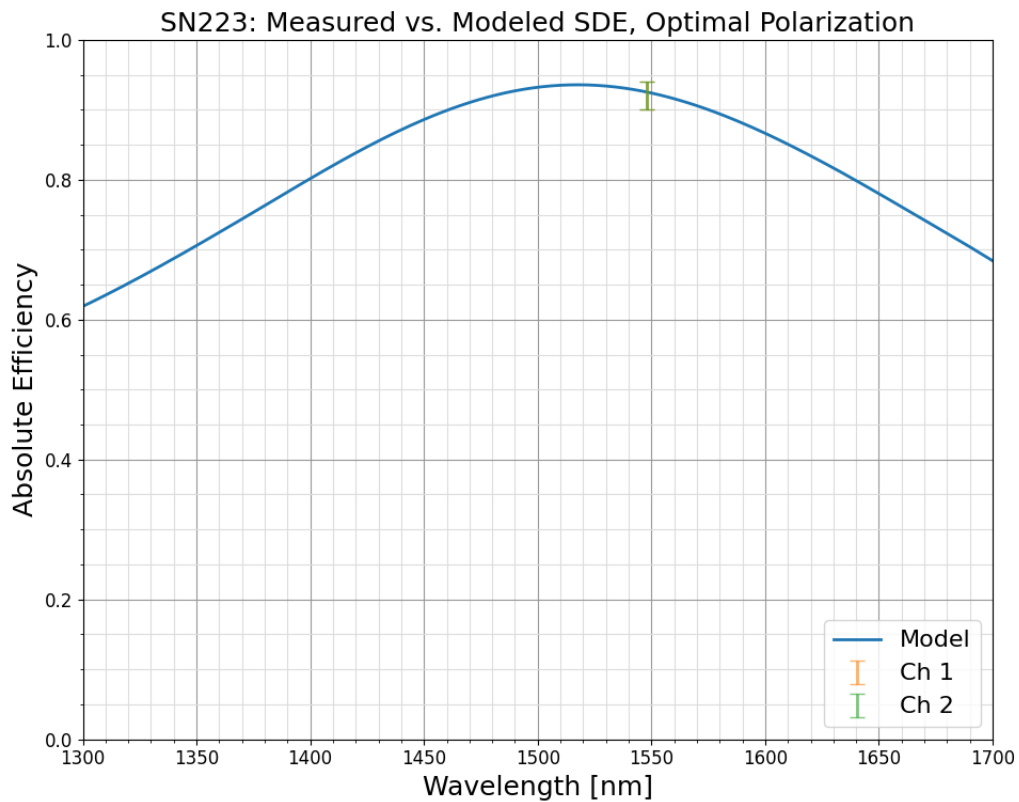




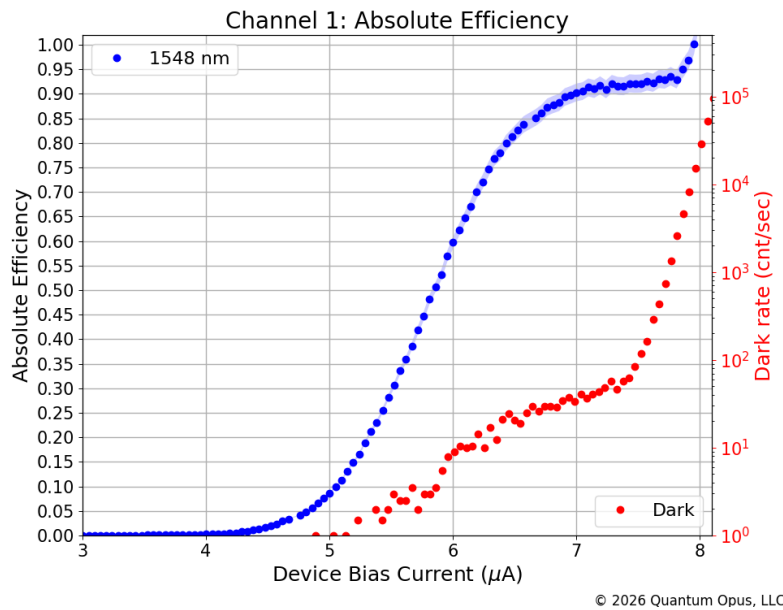
Opus One SN223 Channel Summary

Number of Channels: 2



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Channel Information		Measurement		
Optical Ch	1	Operating Temperature		2.3 K
Electrical Ch	1	Operating Current		7.5 μ A
Wavelength	1550 nm	Dark Count Rate ¹		100 cps
Fiber Type	SMF28	Absolute Efficiency ²	1548 nm	92 %
Output Pulse	Digital			
Output Voltage	1.0 V	Recovery Time ³ 1548 nm	10 %	47 ns
Circuit	Anti-latch High Count Rate with Cryoamp		50 %	63 ns
			90 %	90 ns
		Timing Jitter ⁴		55 ps



¹Dark Counts measured with the fiber port blocked with a protective cap to shield the system from stray light.

²Absolute Efficiency measured using a CW optical source at a count rate <300 kcps. For measurements in the range of 1260–1600 nm relative uncertainty is $\pm 2\%$, otherwise it is $\pm 4\%$.

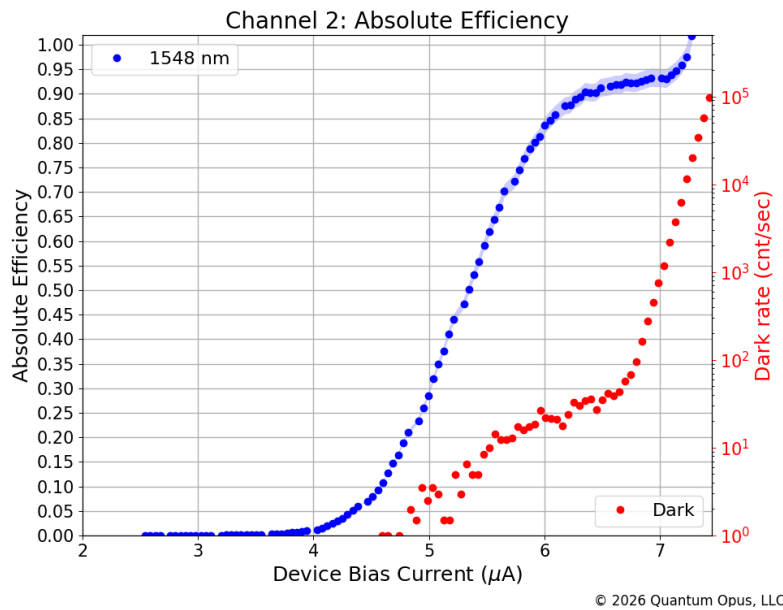
³For details on recovery time measurement see: <https://quantumopus.com/dl/Oshiro2025.pdf>.

⁴FWHM. Deconvolved from autocorrelation measurement with 9 ps time-tagger measurement jitter, 8 ps 1550 nm optical pulse. Estimated ± 2 ps error.

Further details on measurements are available upon request.

For system support, maintenance, or upgrades contact support@quantumopus.com.

Channel Information		Measurement		
Optical Ch	2	Operating Temperature		2.3 K
Electrical Ch	2	Operating Current		6.8 μ A
Wavelength	1550 nm	Dark Count Rate ¹		100 cps
Fiber Type	SMF28	Absolute Efficiency ²	1548 nm	92 %
Output Pulse	Digital			
Output Voltage	1.0 V	Recovery Time ³ 1548 nm	10 %	48 ns
Circuit	Anti-latch High Count Rate with Cryoamp		50 %	66 ns
			90 %	95 ns
		Timing Jitter ⁴		59 ps



¹Dark Counts measured with the fiber port blocked with a protective cap to shield the system from stray light.

²Absolute Efficiency measured using a CW optical source at a count rate <300 kcps. For measurements in the range of 1260–1600 nm relative uncertainty is $\pm 2\%$, otherwise it is $\pm 4\%$.

³For details on recovery time measurement see: <https://quantumopus.com/dl/Oshiro2025.pdf>.

⁴FWHM. Deconvolved from autocorrelation measurement with 9 ps time-tagger measurement jitter, 8 ps 1550 nm optical pulse. Estimated ± 2 ps error.

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