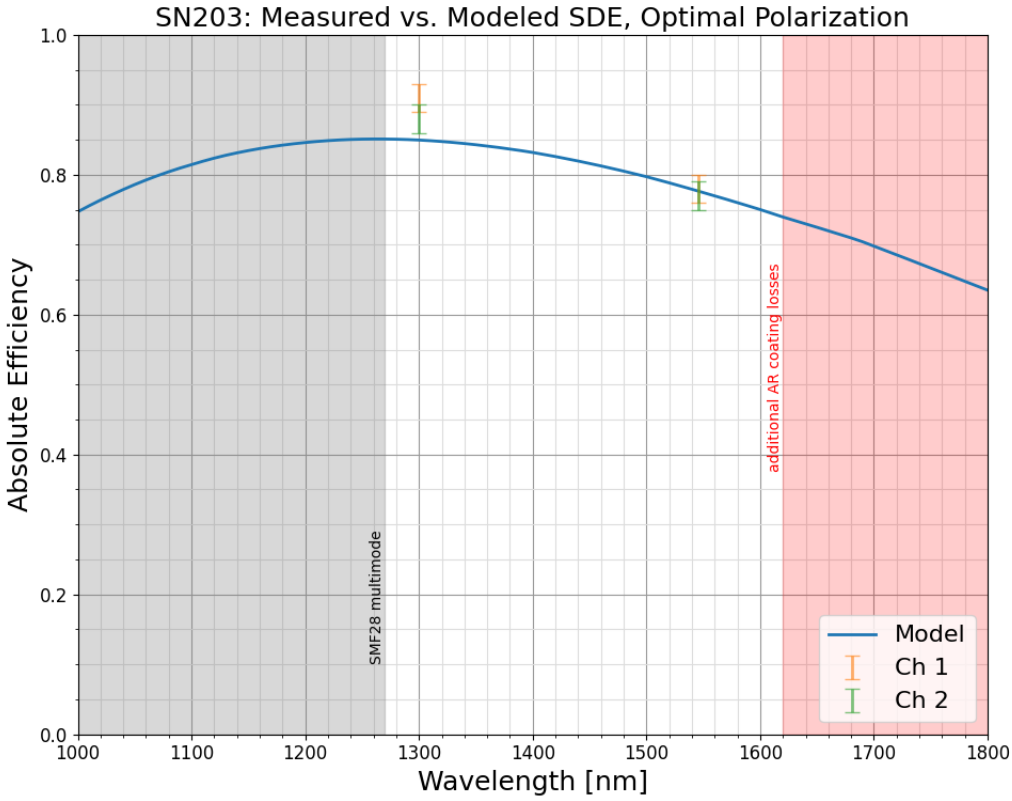
Quantum Opus

Opus One SN203 Channel Summary

Number of Channels: 2



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Quantum Opus

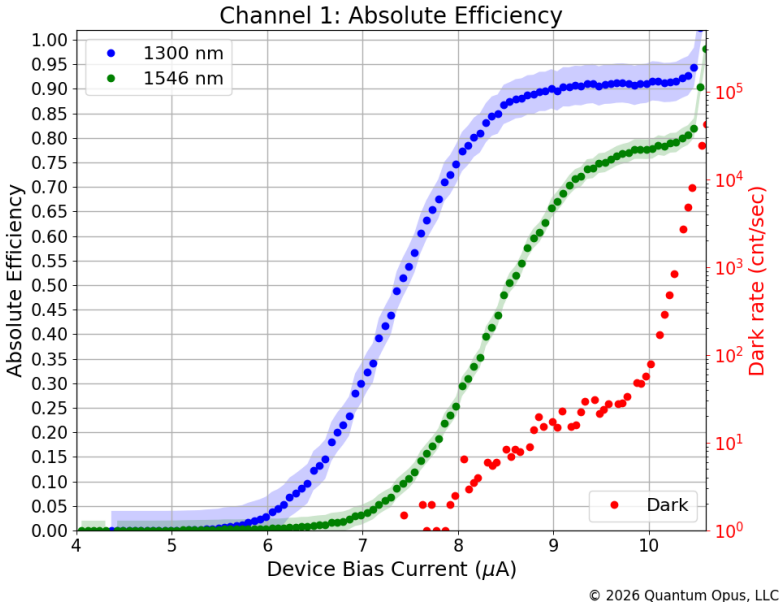
SNSPD Test Report SN203 F07176-1207A-F0363

Channel Information

Optical Ch	1
Electrical Ch	1
Wavelength	1000 – 1600 nm
Fiber Type	SMF28
Output Pulse	Digital
Output Voltage	1.0 V
Circuit	Anti-latch High Count Rate with Cryoamp

Measurement

Operating Temperature		2.1 K
Operating Current		10.0 µA
Dark Count Rate[1]		100 cps
Absolute Efficiency[2]	1300 nm	91 %
	1546 nm	78 %
Recovery Time[3] **1546 nm**	10 %	32 ns
	50 %	38 ns
	90 %	48 ns
Timing Jitter[4]		63 ps



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

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

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

[4]FWHM. 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.

Quantum Opus

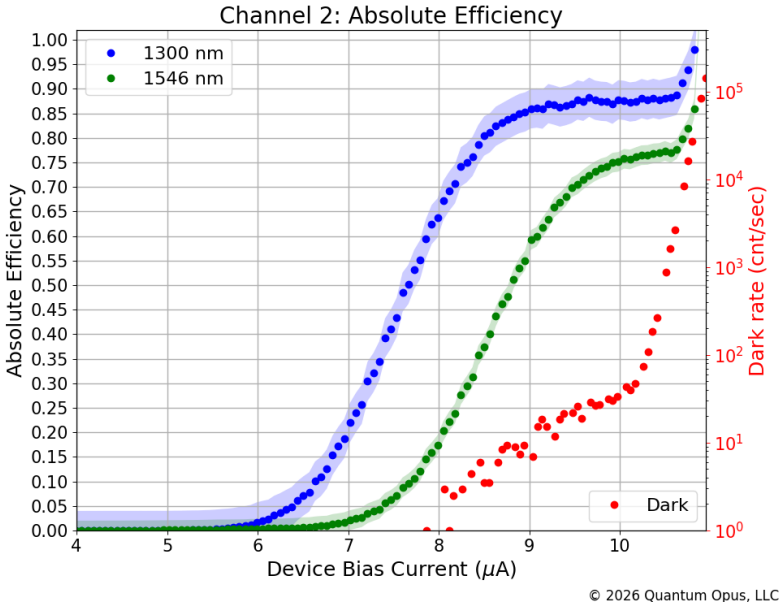
SNSPD Test Report SN203 F07176-0711A-F0354

Channel Information

Optical Ch	2
Electrical Ch	2
Wavelength	1000 – 1600 nm
Fiber Type	SMF28
Output Pulse	Digital
Output Voltage	1.0 V
Circuit	Anti-latch High Count Rate with Cryoamp

Measurement

Operating Temperature		2.1 K
Operating Current		10.3 µA
Dark Count Rate[1]		100 cps
Absolute Efficiency[2]	1300 nm	88 %
	1546 nm	77 %
Recovery Time[3] **1546 nm**	10 %	30 ns
	50 %	37 ns
	90 %	49 ns
Timing Jitter[4]		47 ps



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