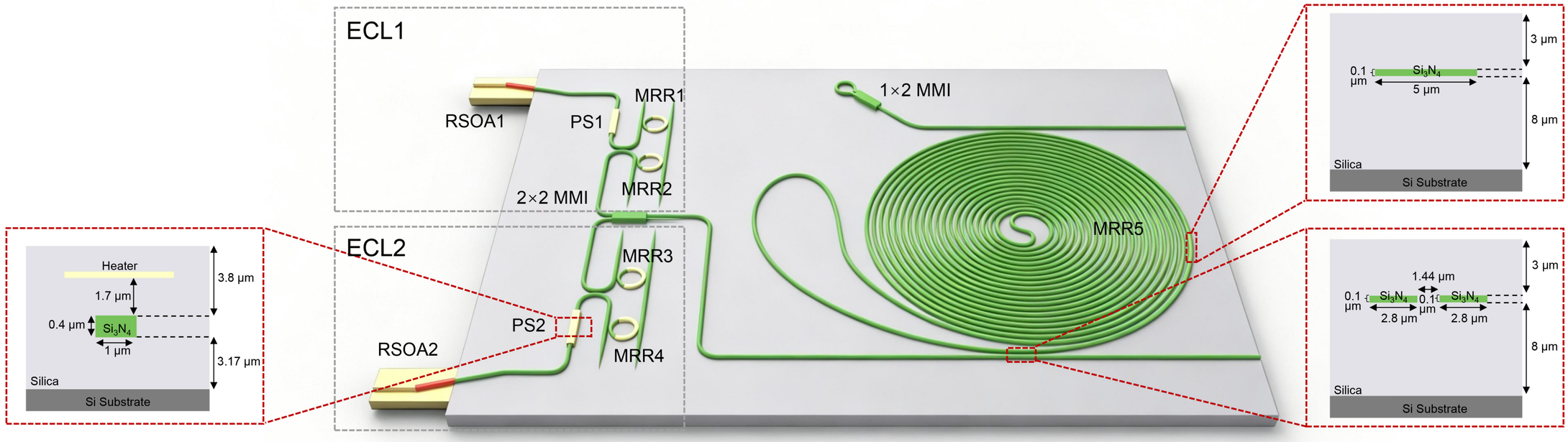
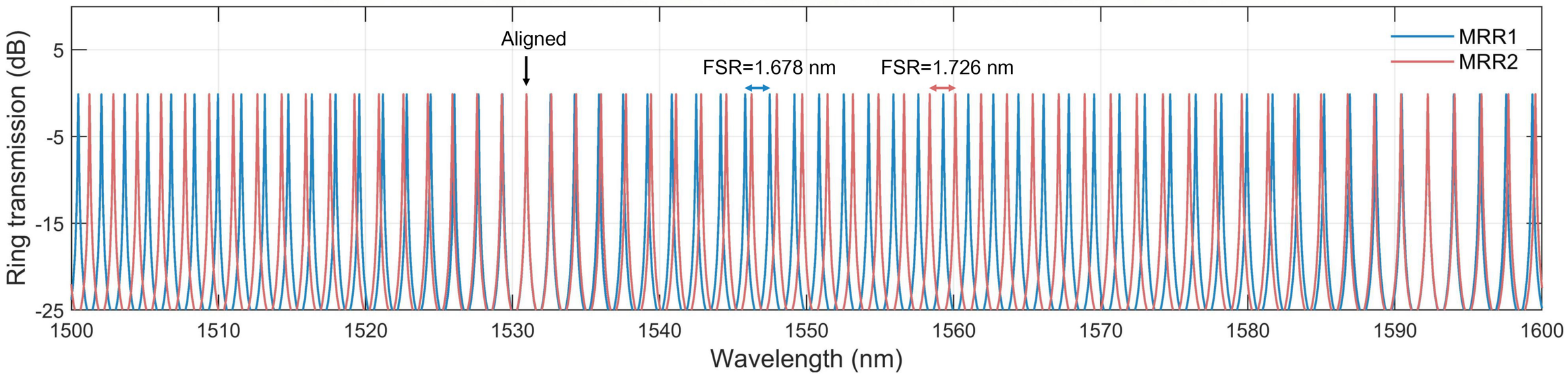
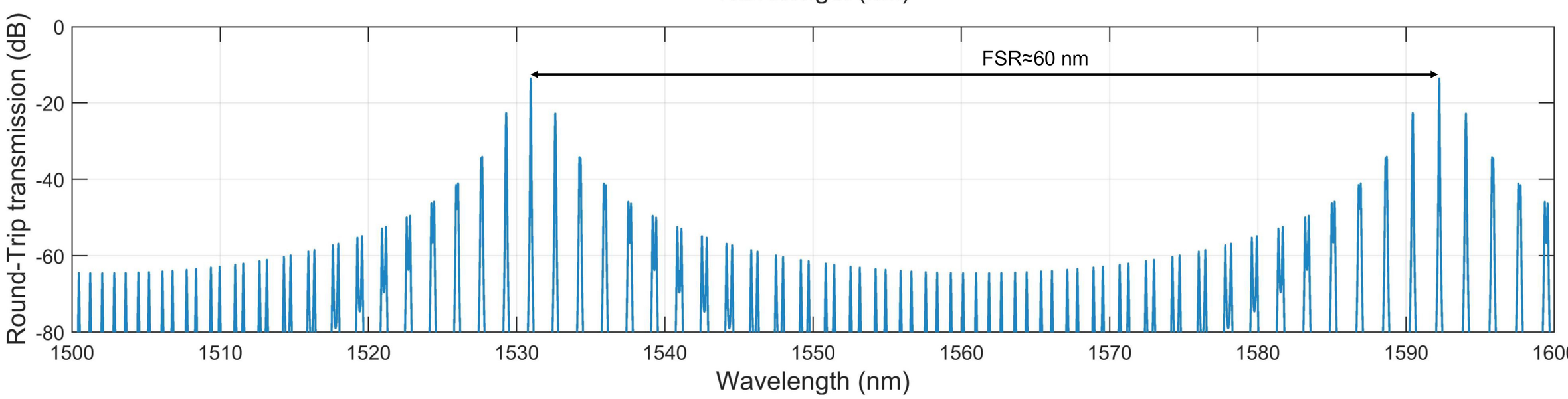
a


ECL1
ECL2
RSOA1
RSOA2
PS1
PS2
MRR1
MRR2
MRR3
MRR4
MRR5
2×2 MMI
1×2 MMI
Heater
3.8 μm
1.7 μm
0.4 μm
Si3N4
1 μm
3.17 μm
Silica
Si Substrate
3 μm
0.1 μm
5 μm
8 μm
1.44 μm
2.8 μm

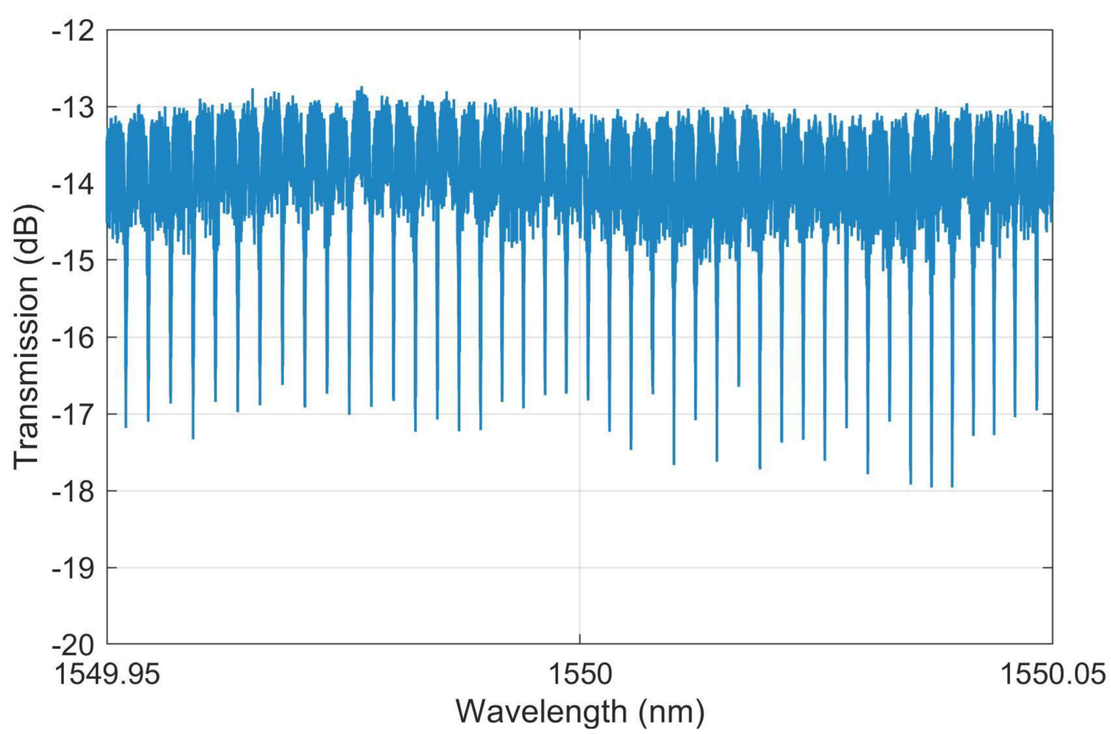
b


Aligned
FSR=1.678 nm
FSR=1.726 nm
MRR1
MRR2
Ring transmission (dB)
Wavelength (nm)

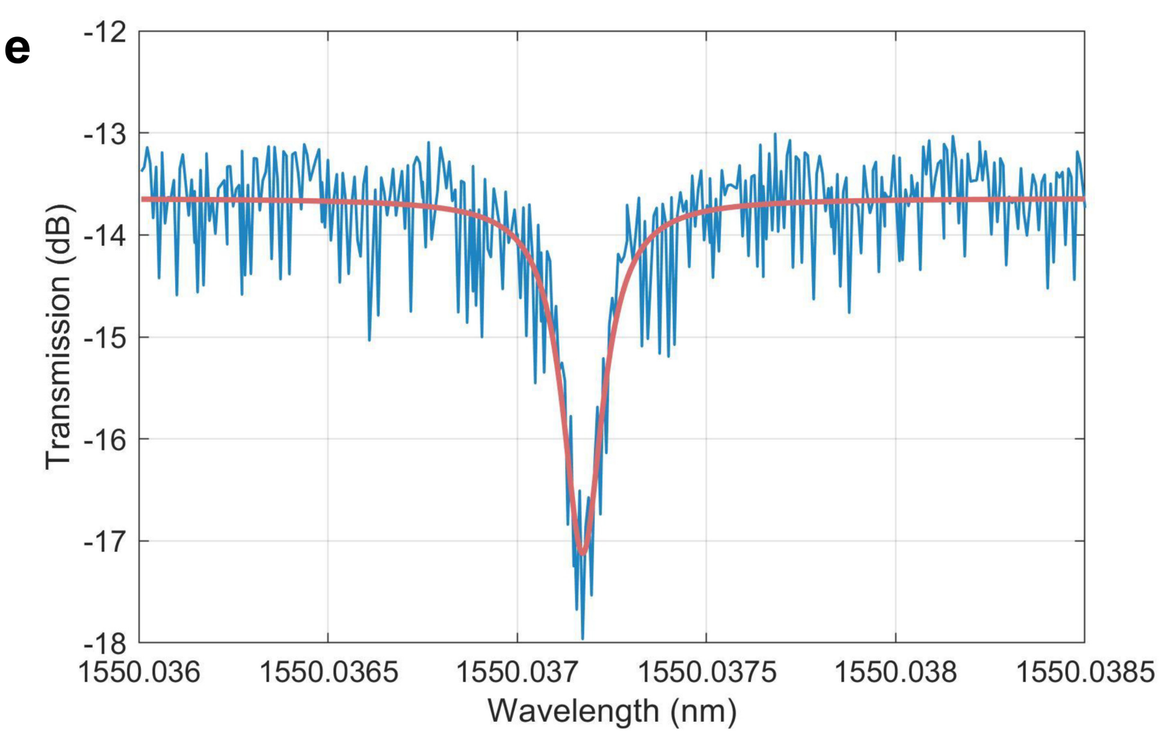
c


FSR≈60 nm
Round-Trip transmission (dB)
Wavelength (nm)

d


Transmission (dB)
Wavelength (nm)

e


Transmission (dB)
Wavelength (nm)