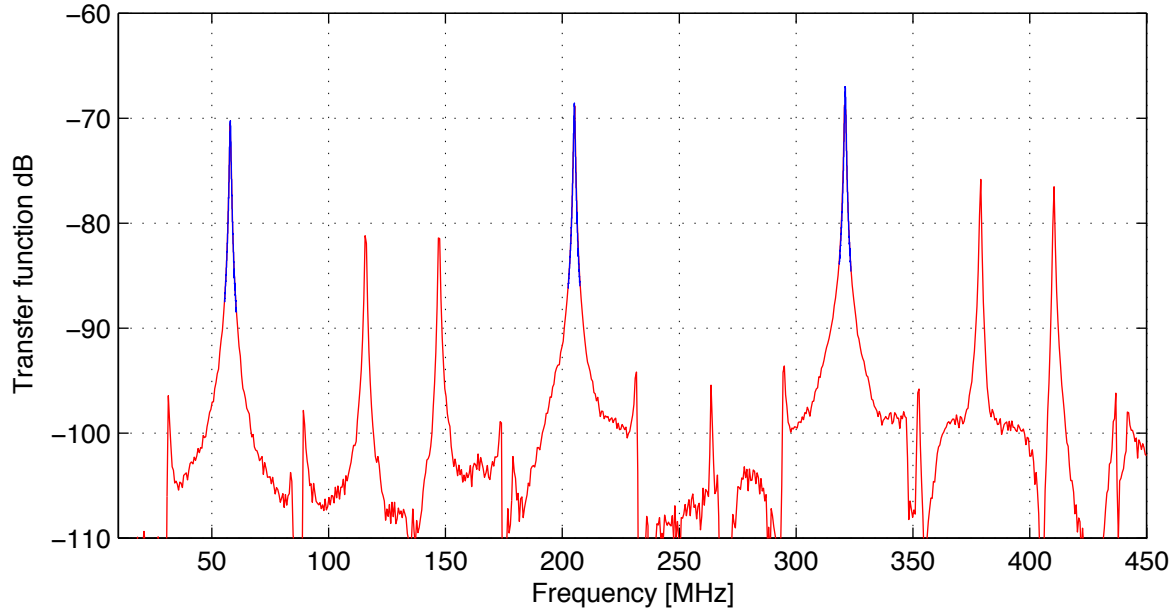


140503\_Yaw: L1OMC – HOM measurement(2013/04/12)



Fit Result

**== Peak 1 ==**

Peak1: 57.931271 +/- 0.000322 MHz  
 Cavity pole: 334.775647 +/- 0.355538 kHz  
 Finesse (1st order): 392.906248 +/- 0.417274

**== Peak 2 ==**

Peak2: 205.129967 +/- 0.000278 MHz  
 Cavity pole: 336.259004 +/- 0.307149 kHz  
 Finesse (1st order): 391.173000 +/- 0.357310

**== Peak 3 ==**

Peak3: 321.002158 +/- 0.000480 MHz  
 Cavity pole: 339.782747 +/- 0.530535 kHz  
 Finesse (1st order): 387.116311 +/- 0.604442

**== Summary ==**

Free Spectral Range (FSR):  
 263.070887 +/- 0.000579 MHz

Cavity roundtrip length:  
 1.139588 +/- 0.000003 m

Lock offset:  
 -4.824458 +/- 0.425485 kHz

Transverse mode spacing (TMS):  
 57.936096 +/- 0.000278 MHz

TMS/FSR:  
 0.220230 +/- 0.000001

Cavity pole (1st order modes, avg and stddev):  
 336.939132 +/- 2.571905 kHz

Finesse (1st order modes, avg and stddev):  
 390.398520 +/- 2.971651

