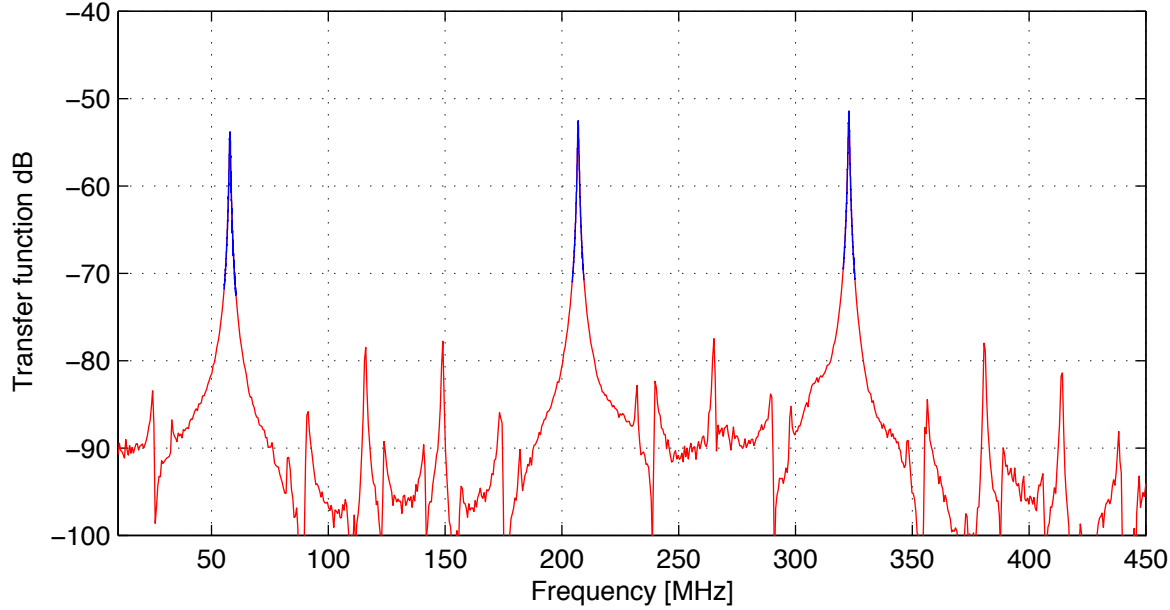


130530\_Pitch: L1OMC – HOM measurement(2013/05/30)



Fit Result

**== Peak 1 ==**  
 Peak1: 57.936791 +/- 0.000515 MHz  
 Cavity pole: 311.688025 +/- 0.563801 kHz  
 Finesse (1st order): 425.056981 +/- 0.768871

**== Peak 2 ==**  
 Peak2: 207.028018 +/- 0.000247 MHz  
 Cavity pole: 311.738514 +/- 0.270814 kHz  
 Finesse (1st order): 424.988139 +/- 0.369198

**== Peak 3 ==**  
 Peak3: 322.907133 +/- 0.000397 MHz  
 Cavity pole: 306.857342 +/- 0.434175 kHz  
 Finesse (1st order): 431.748414 +/- 0.610885

**== Summary ==**  
 Free Spectral Range (FSR):  
 264.970342 +/- 0.000651 MHz

Cavity roundtrip length:  
 1.131419 +/- 0.000003 m

Lock offset:  
 -2.766399 +/- 0.565794 kHz

Transverse mode spacing (TMS):  
 57.939557 +/- 0.000234 MHz

TMS/FSR:  
 0.218664 +/- 0.000001

Cavity pole (1st order modes, avg and stddev):  
 310.094627 +/- 2.803685 kHz

Finesse (1st order modes, avg and stddev):  
 427.264511 +/- 3.883326

