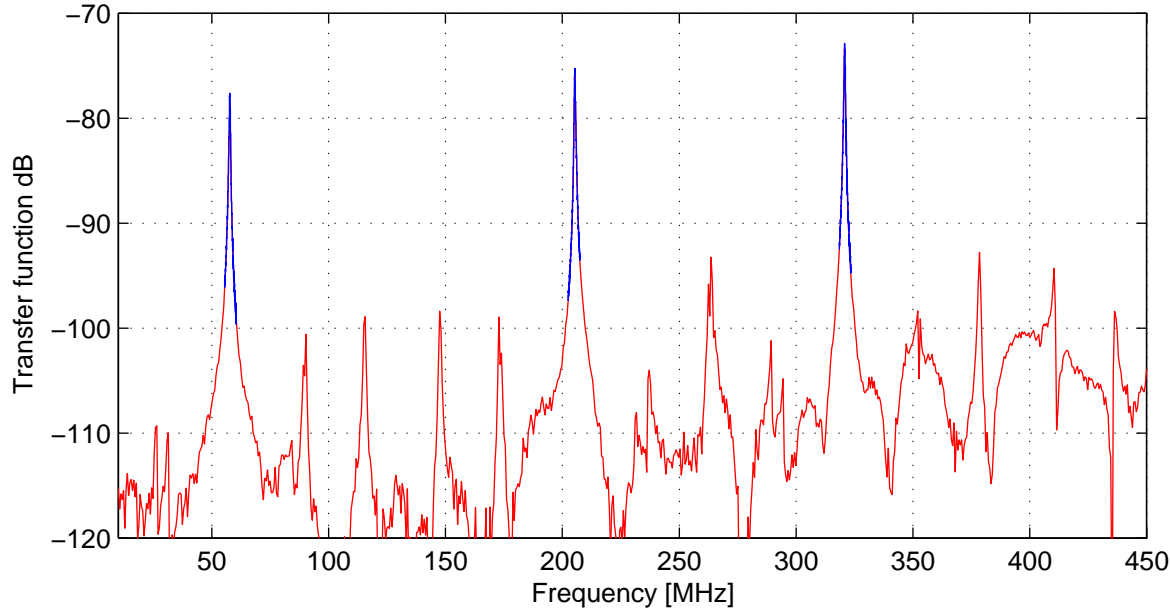


140503\_Pitch: L1OMC – HOM measurement(2013/04/12)



Fit Result

**== Peak 1 ==**  
 Peak1: 57.715876 +/- 0.001047 MHz  
 Cavity pole: 258.819327 +/- 1.128222 kHz  
 Finesse (1st order): 508.219931 +/- 2.215390

**== Peak 2 ==**  
 Peak2: 205.359478 +/- 0.001091 MHz  
 Cavity pole: 257.689001 +/- 1.175707 kHz  
 Finesse (1st order): 510.449184 +/- 2.328927

**== Peak 3 ==**  
 Peak3: 320.790156 +/- 0.001141 MHz  
 Cavity pole: 254.838149 +/- 1.227526 kHz  
 Finesse (1st order): 516.159535 +/- 2.486283

**== Summary ==**  
 Free Spectral Range (FSR):  
 263.074281 +/- 0.001549 MHz

Cavity roundtrip length:  
 1.139573 +/- 0.000007 m

Lock offset:  
 0.536210 +/- 1.311421 kHz

Transverse mode spacing (TMS):  
 57.715339 +/- 0.000789 MHz

TMS/FSR:  
 0.219388 +/- 0.000003

Cavity pole (1st order modes, avg and stddev):  
 257.115492 +/- 2.051616 kHz

Finesse (1st order modes, avg and stddev):  
 511.609550 +/- 4.095017

