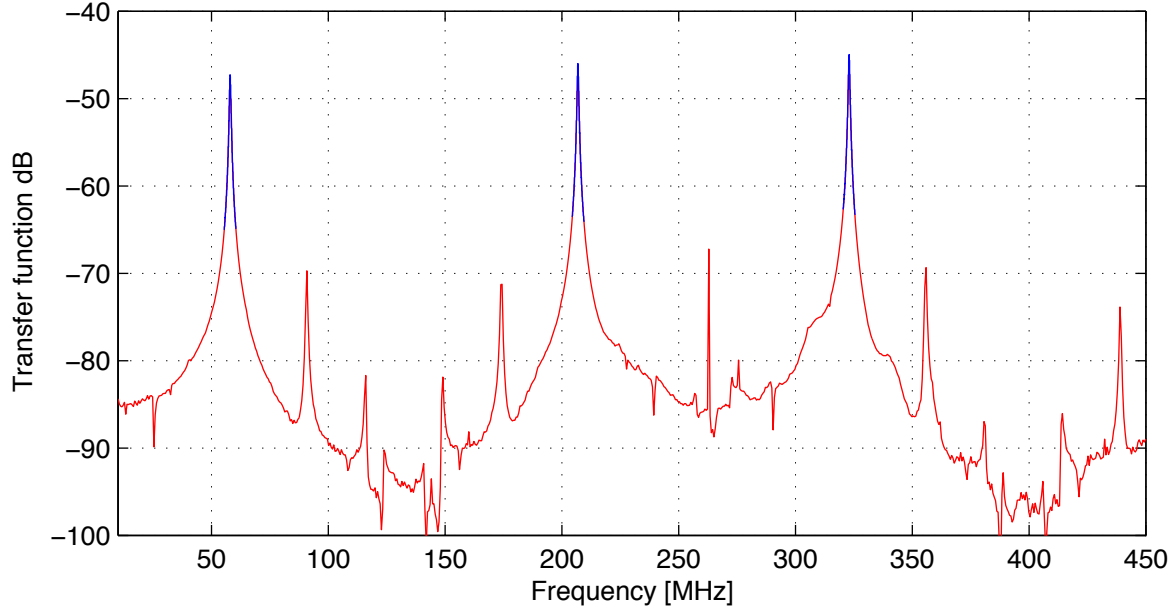


130530\_Yaw: L1OMC – HOM measurement(2013/05/30)



Fit Result

**== Peak 1 ==**  
 Peak1: 58.043851 +/- 0.000208 MHz  
 Cavity pole: 329.856444 +/- 0.228713 kHz  
 Finesse (1st order): 401.643769 +/- 0.278489

**== Peak 2 ==**  
 Peak2: 206.917711 +/- 0.000181 MHz  
 Cavity pole: 329.008662 +/- 0.199359 kHz  
 Finesse (1st order): 402.678716 +/- 0.243999

**== Peak 3 ==**  
 Peak3: 323.013422 +/- 0.000369 MHz  
 Cavity pole: 326.574167 +/- 0.405887 kHz  
 Finesse (1st order): 405.680543 +/- 0.504205

**== Summary ==**  
 Free Spectral Range (FSR):  
 264.969571 +/- 0.000424 MHz

Cavity roundtrip length:  
 1.131422 +/- 0.000002 m

Lock offset:  
 -4.004173 +/- 0.292276 kHz

Transverse mode spacing (TMS):  
 58.047856 +/- 0.000206 MHz

TMS/FSR:  
 0.219074 +/- 0.000001

Cavity pole (1st order modes, avg and stddev):  
 328.479758 +/- 1.703860 kHz

Finesse (1st order modes, avg and stddev):  
 403.334343 +/- 2.096729

