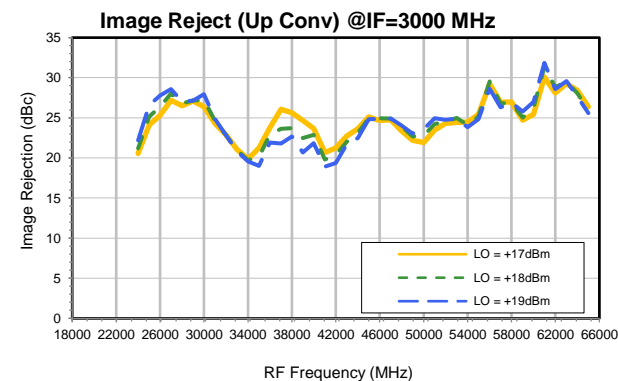
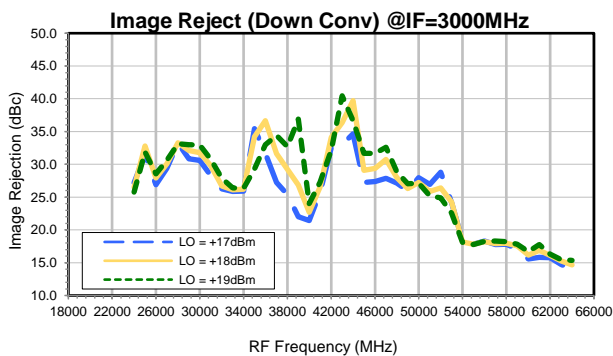
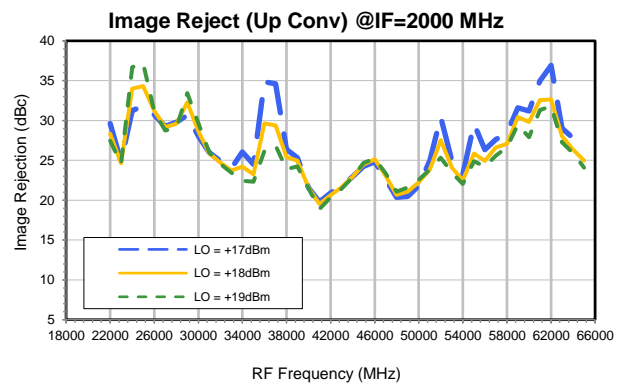
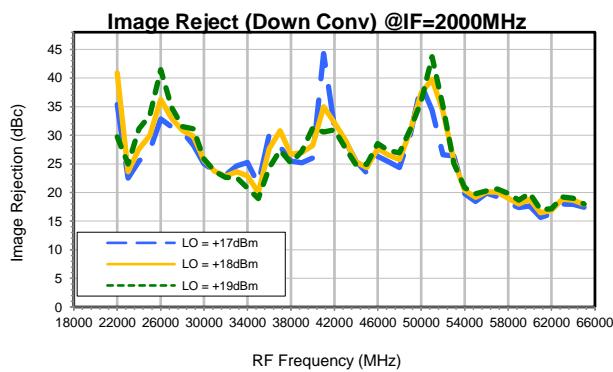
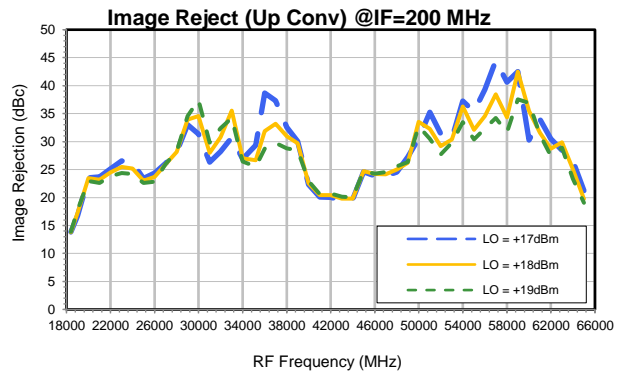
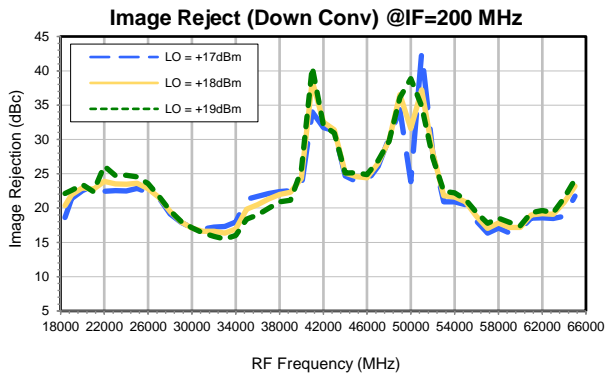


Frequency Mixer

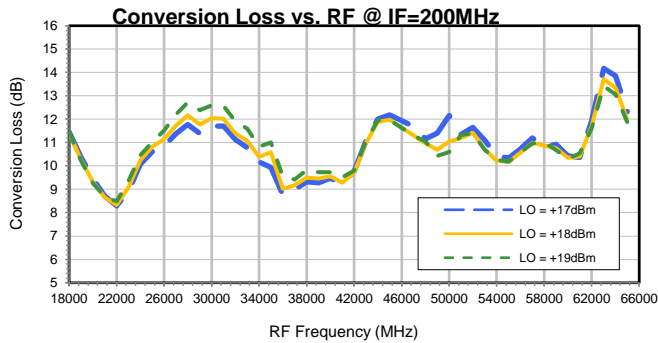
SMIQ-653H-D+

Typical Performance Curves

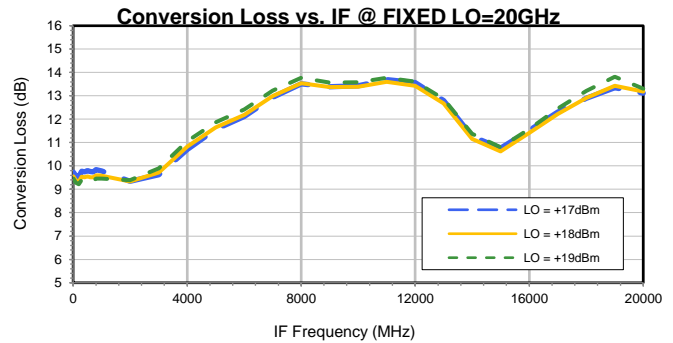


Typical Performance Curves

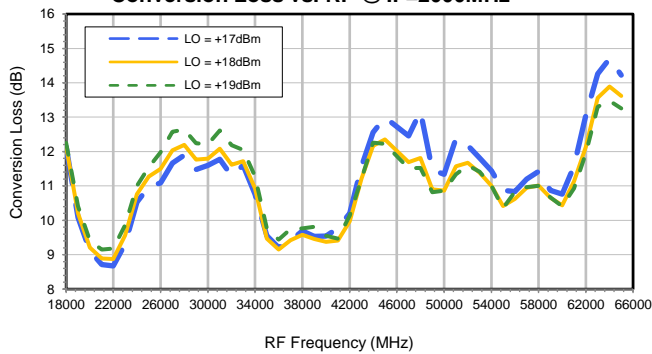
Conversion Loss with Fixed IF



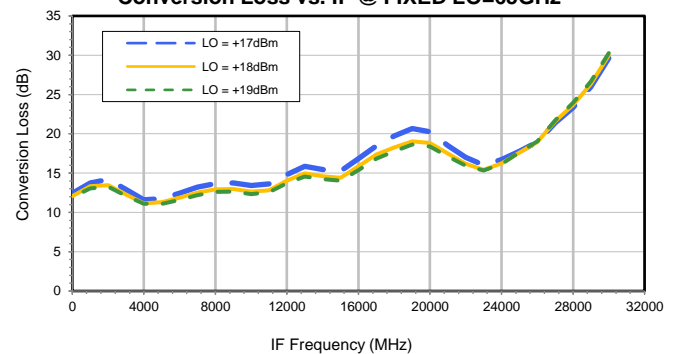
Conversion Loss with Variable IF



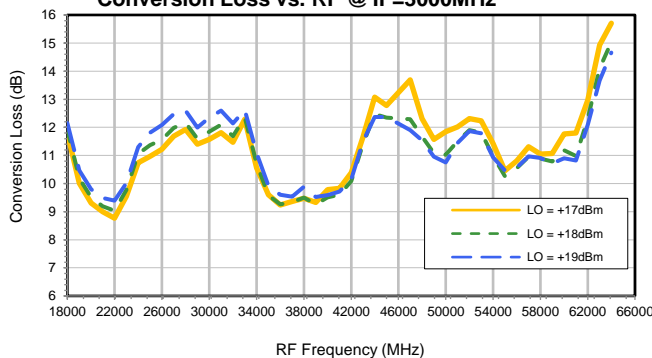
Conversion Loss vs. RF @ IF=2000MHz



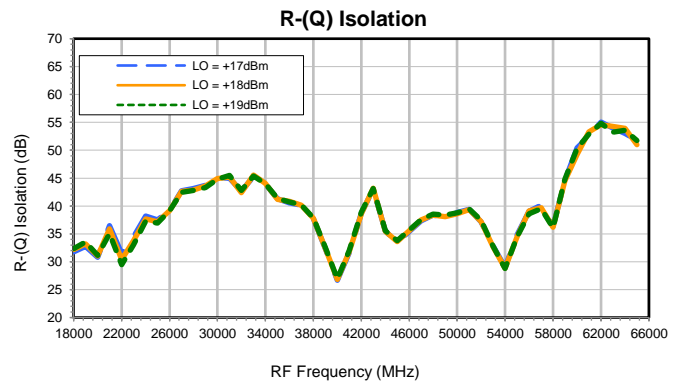
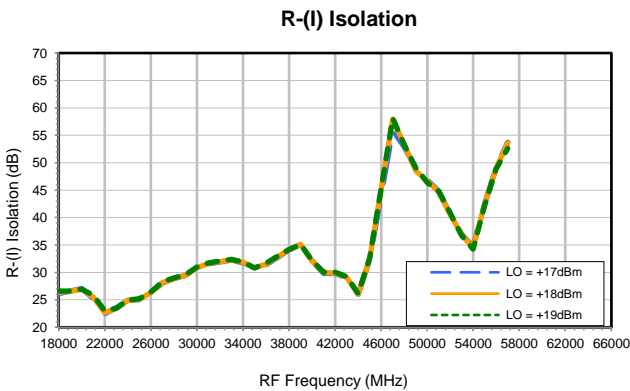
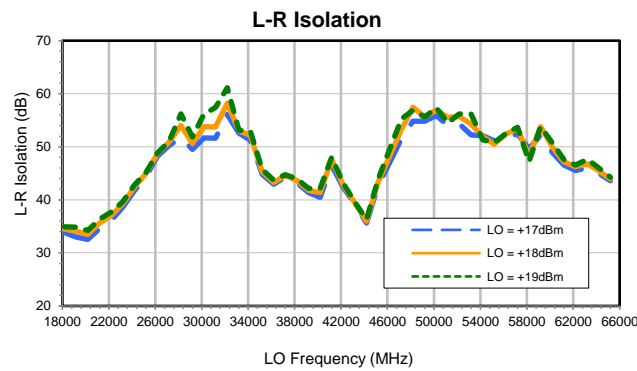
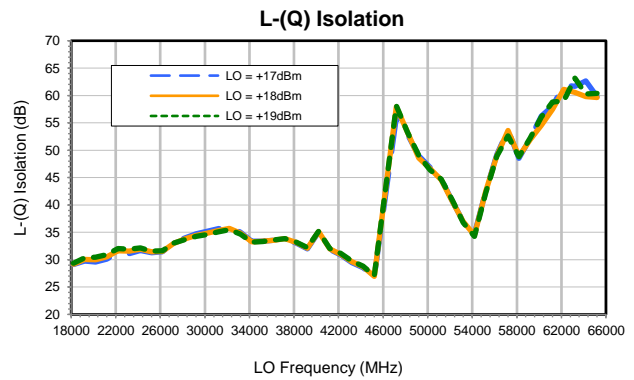
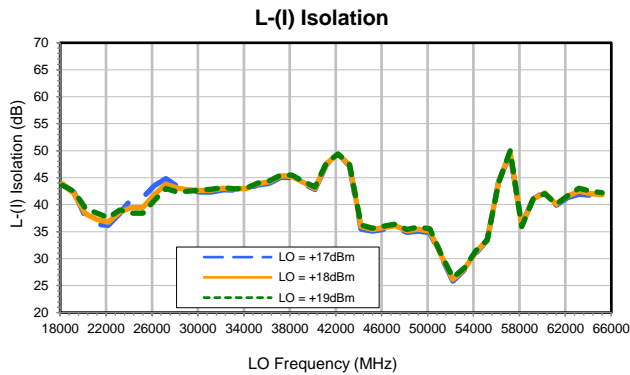
Conversion Loss vs. IF @ FIXED LO=65GHz



Conversion Loss vs. RF @ IF=3000MHz

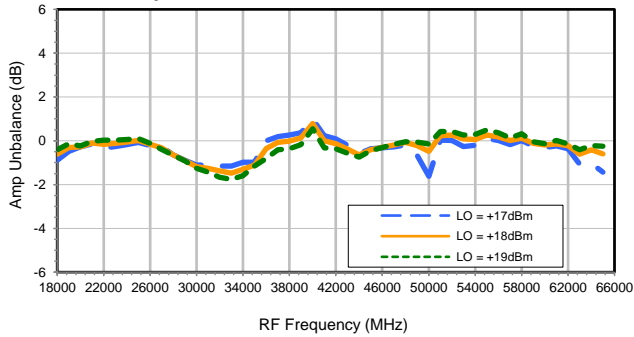


Typical Performance Curves

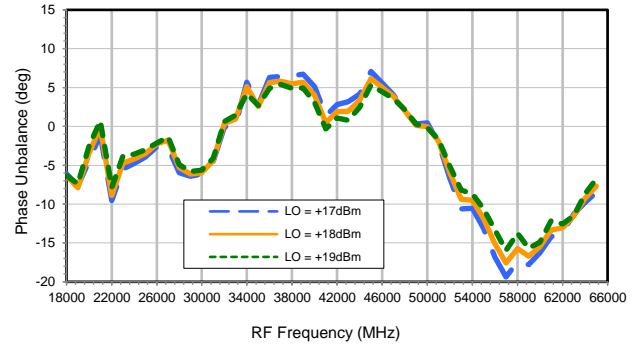


Typical Performance Curves

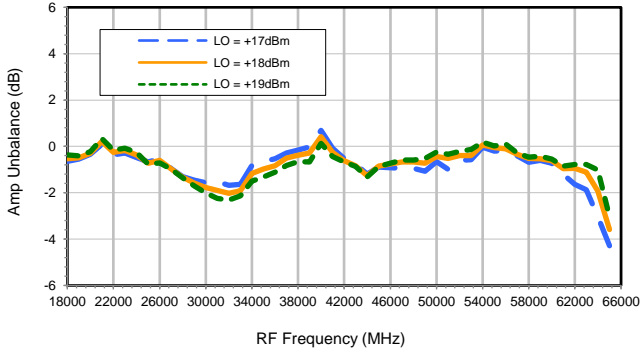
Amp Unbalance @ Fixed IF = 200 MHz



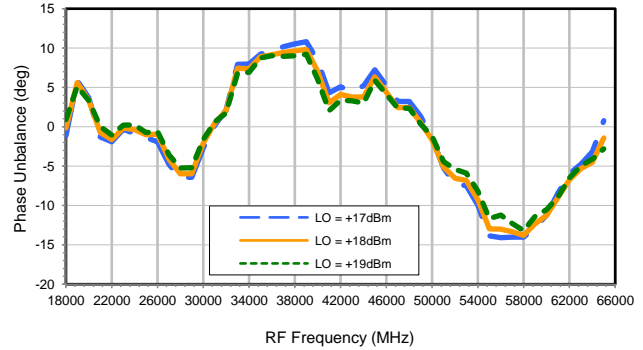
Phase Unbalance @ Fixed IF = 200 MHz



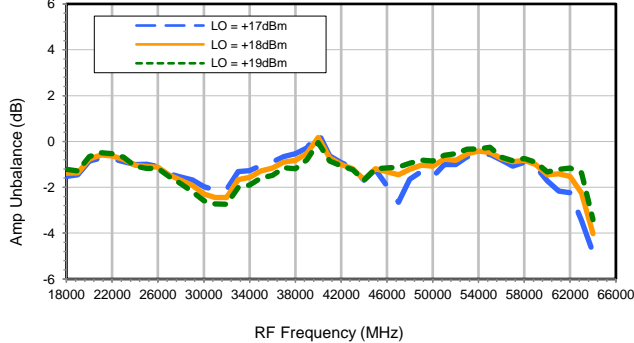
Amp Unbalance @ Fixed IF = 2000 MHz



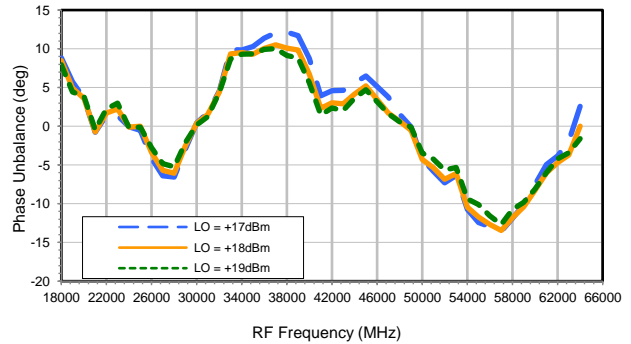
Phase Unbalance @ Fixed IF = 2000 MHz



Amp Unbalance @ Fixed IF = 3000 MHz



Phase Unbalance @ Fixed IF = 3000 MHz

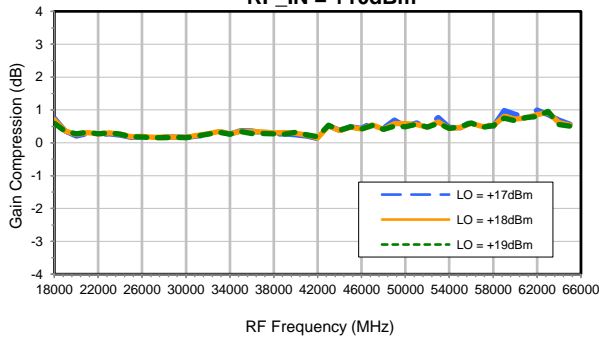


Frequency Mixer

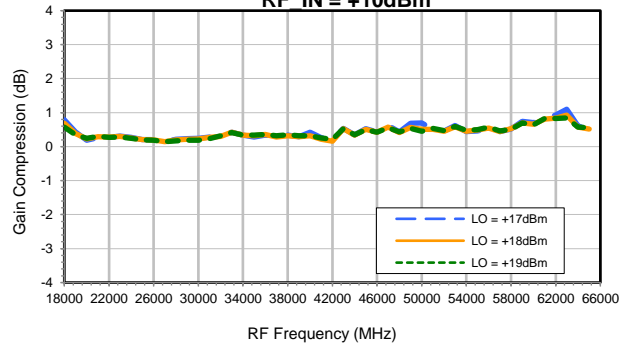
SMIQ-653H-D+

Typical Performance Curves

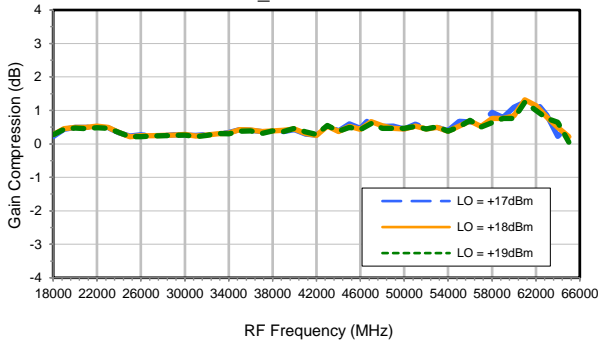
Gain Compression (I) @ Fixed IF = 200 MHz
RF_IN = +10dBm



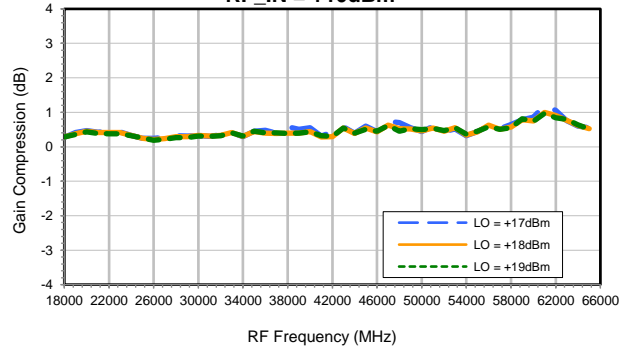
Gain Compression (Q) @ Fixed IF = 200 MHz
RF_IN = +10dBm



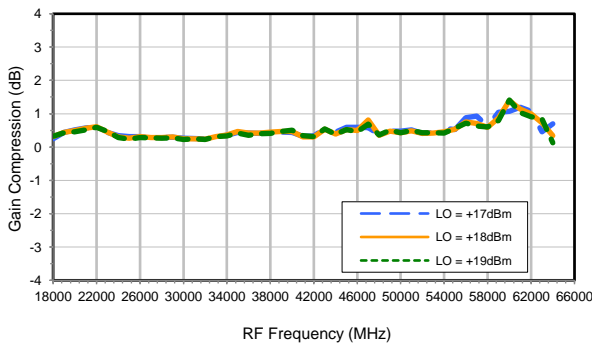
Gain Compression (I) @ Fixed IF = 2000 MHz
RF_IN = +10dBm



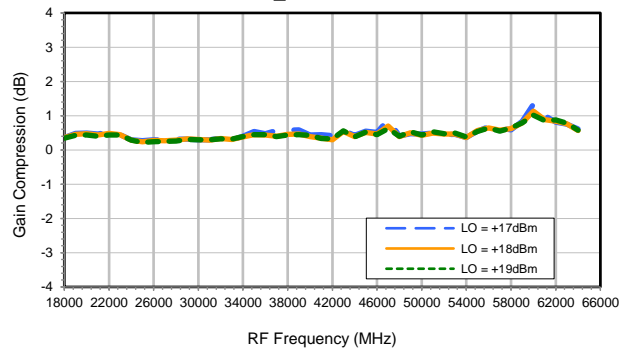
Gain Compression (Q) @ Fixed IF = 2000 MHz
RF_IN = +10dBm



Gain Compression (I) @ Fixed IF = 3000 MHz
RF_IN = +10dBm



Gain Compression (Q) @ Fixed IF = 3000 MHz
RF_IN = +10dBm



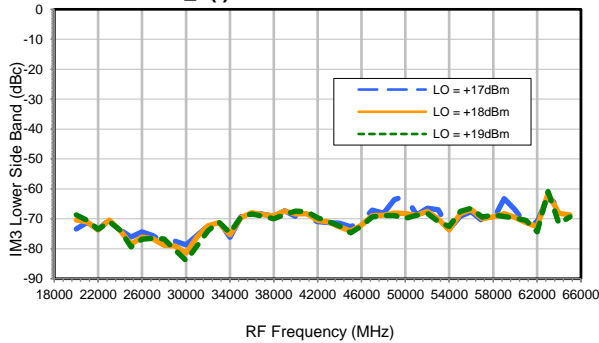
Frequency Mixer

SMIQ-653H-D+

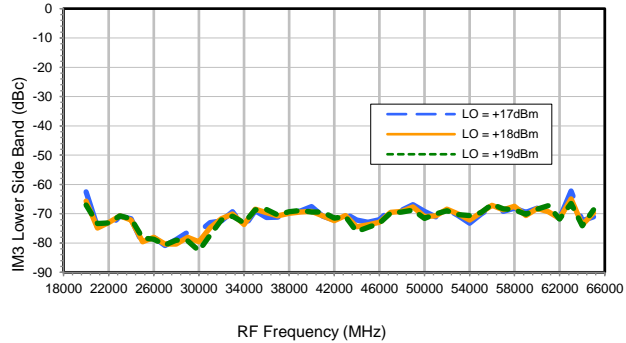
Typical Performance Curves

Pout = -10dBm/tone with 1MHz spacing (RF2 = RF1 + 1MHz)

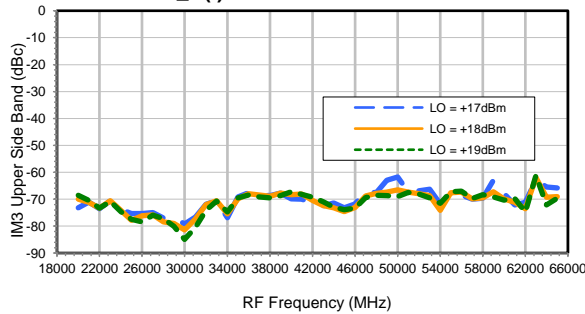
IM3_L(I) @ Fixed IF = 200 MHz



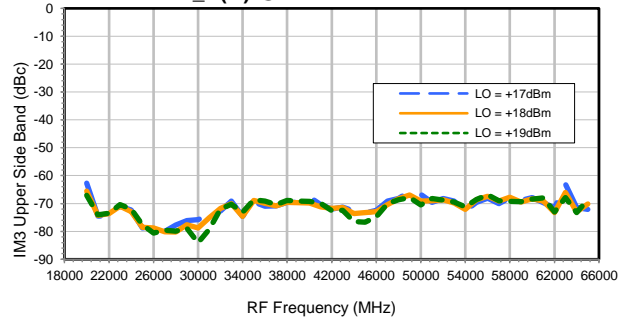
IM3_L(Q) @ Fixed IF = 200 MHz



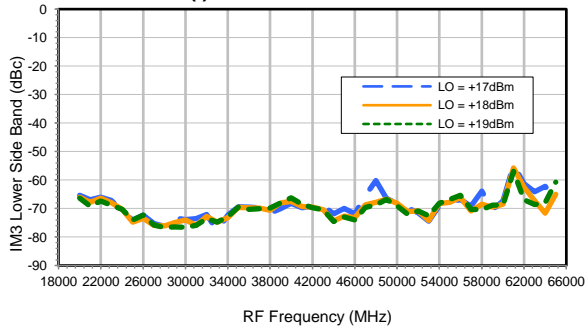
IM3_H(I) @ Fixed IF = 200 MHz



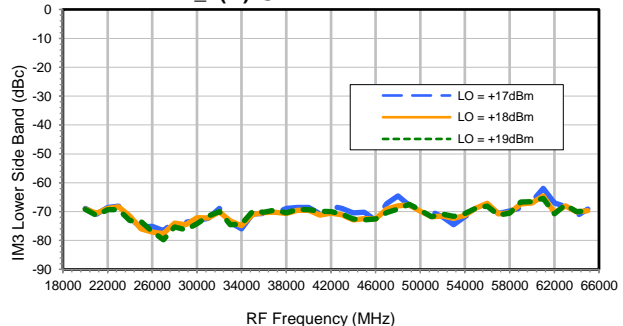
IM3_H(Q) @ Fixed IF = 200 MHz



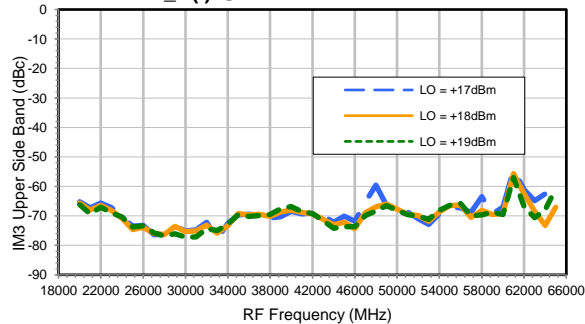
IM3_L(I) @ Fixed IF = 2000 MHz



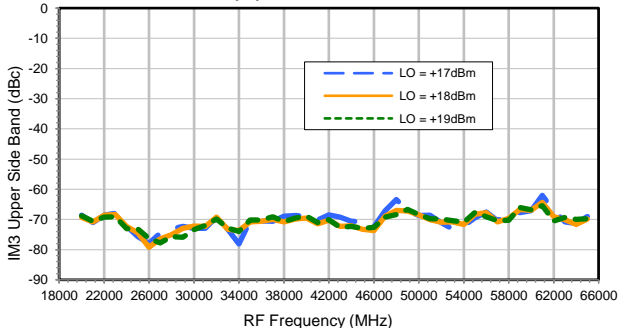
IM3_L(Q) @ Fixed IF = 2000 MHz



IM3_H(I) @ Fixed IF = 2000 MHz

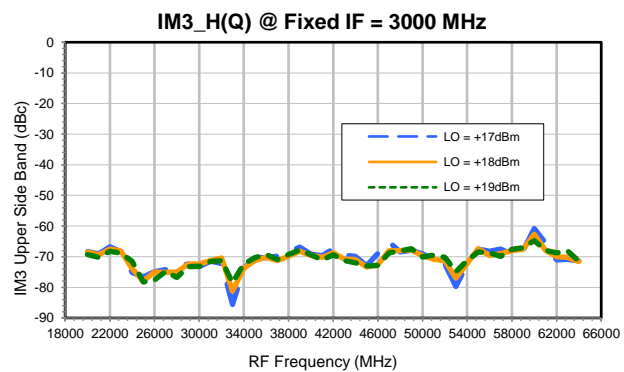
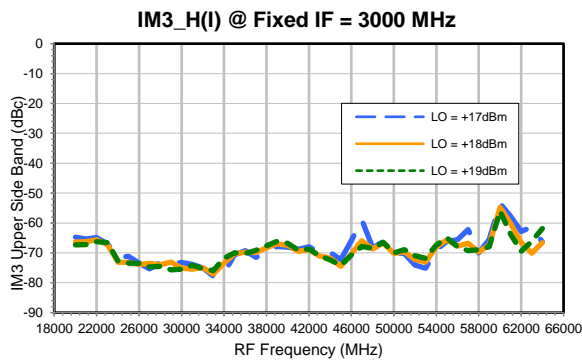
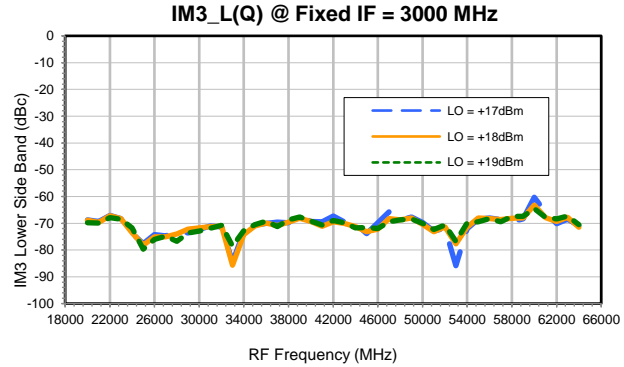
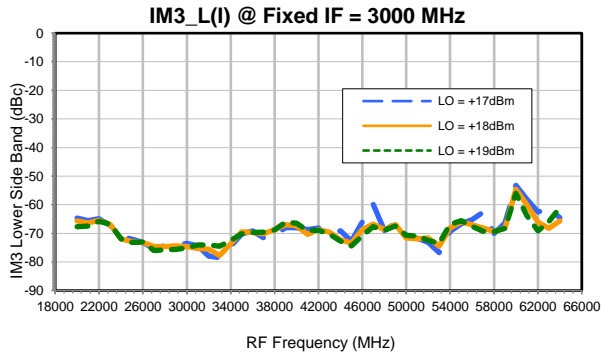


IM3_H(Q) @ Fixed IF = 2000 MHz



Typical Performance Curves

Pout = -10dBm/tone with 1MHz spacing (RF2 = RF1 + 1MHz)

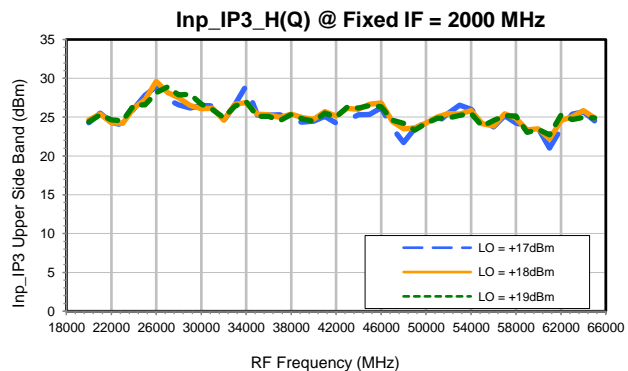
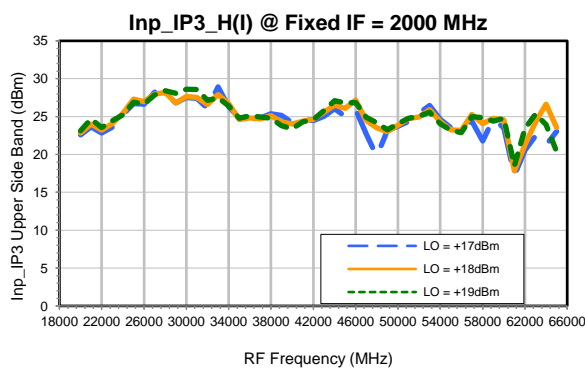
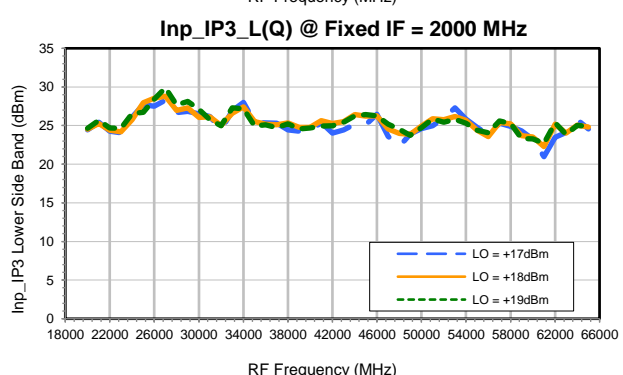
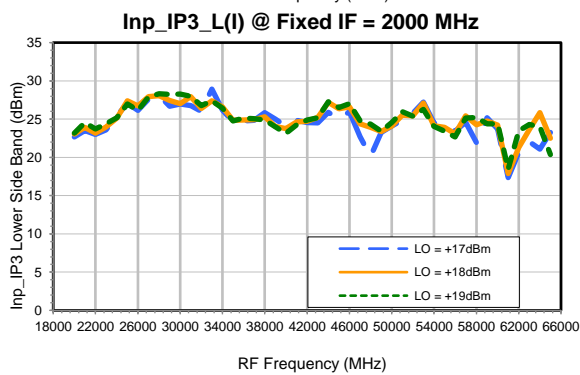
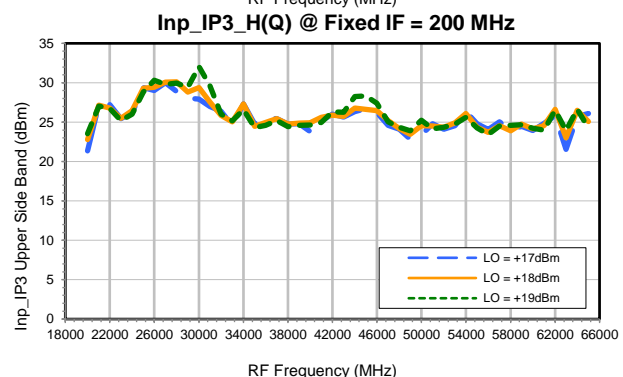
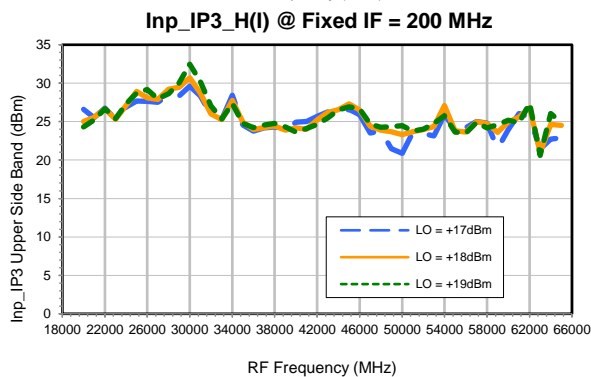
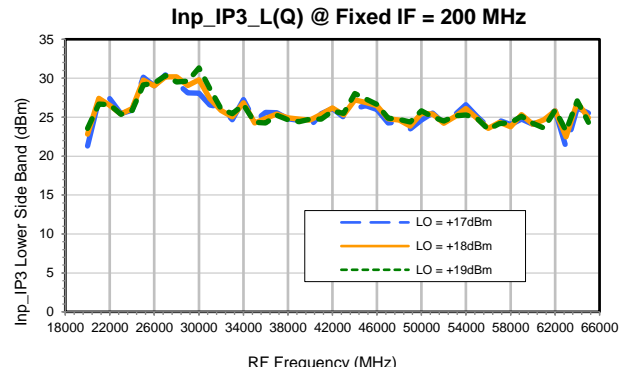
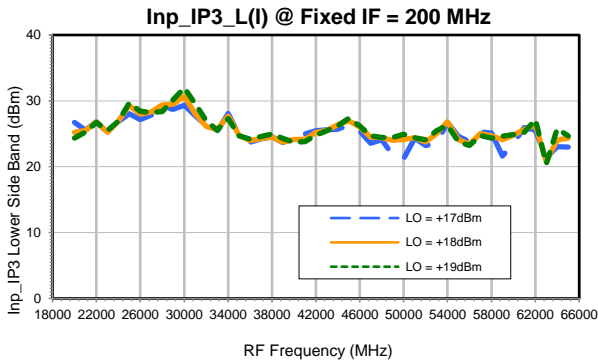


Frequency Mixer

SMIQ-653H-D+

Typical Performance Curves

Pout = -10dBm/tone with 1MHz spacing (RF2 = RF1 + 1MHz)



Typical Performance Curves

Pout = -10dBm/tone with 1MHz spacing (RF2 = RF1 + 1MHz)

