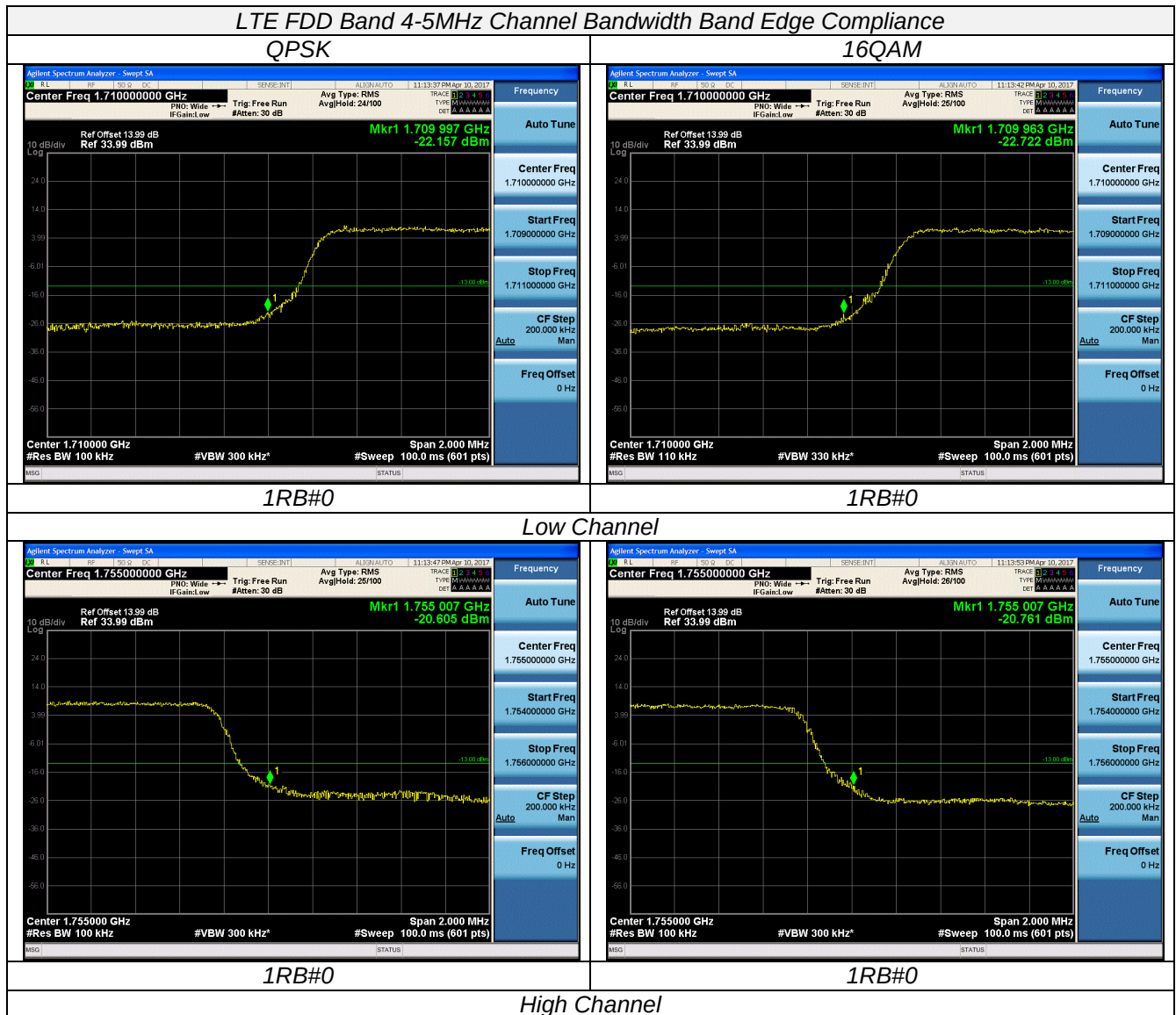
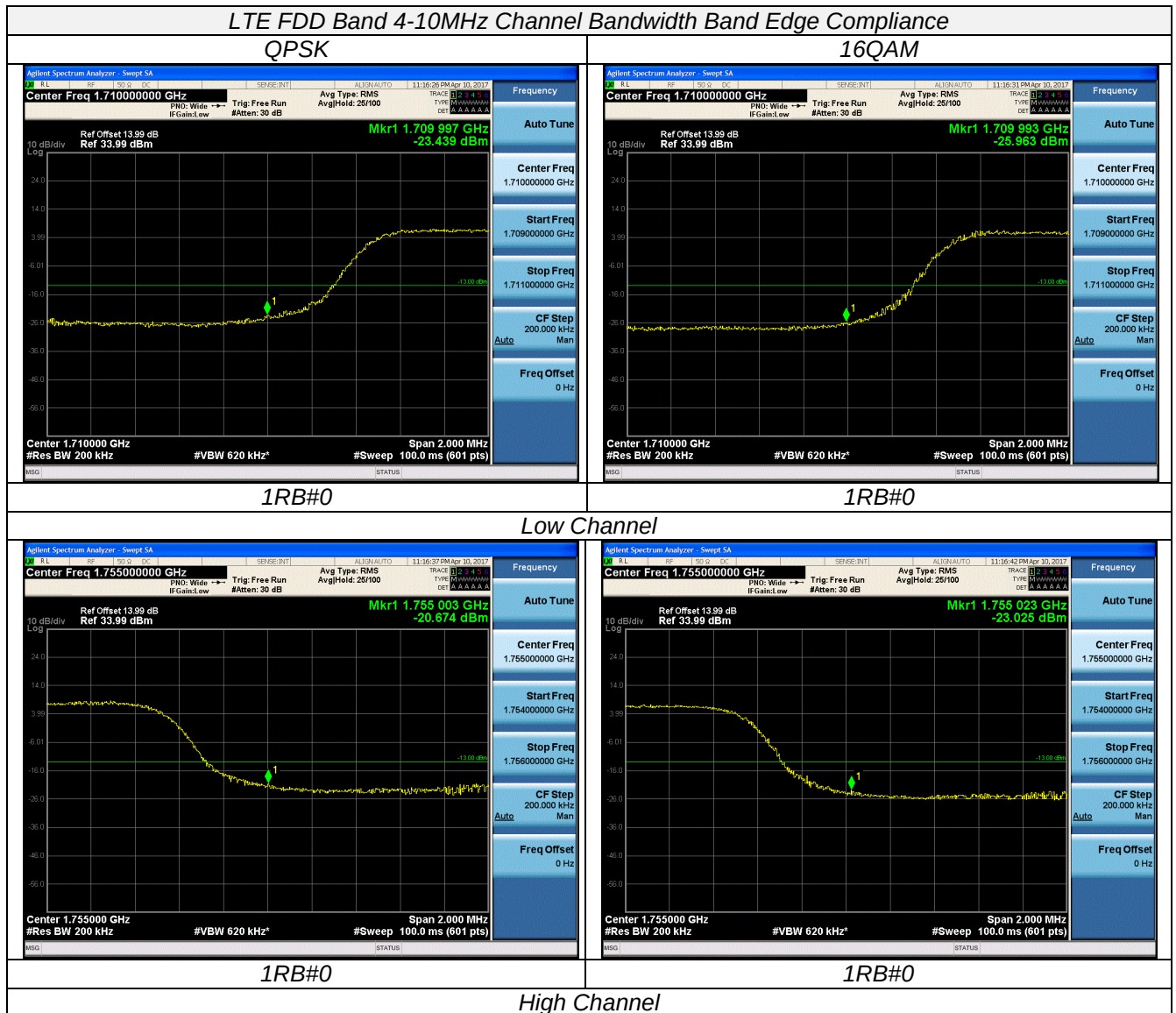
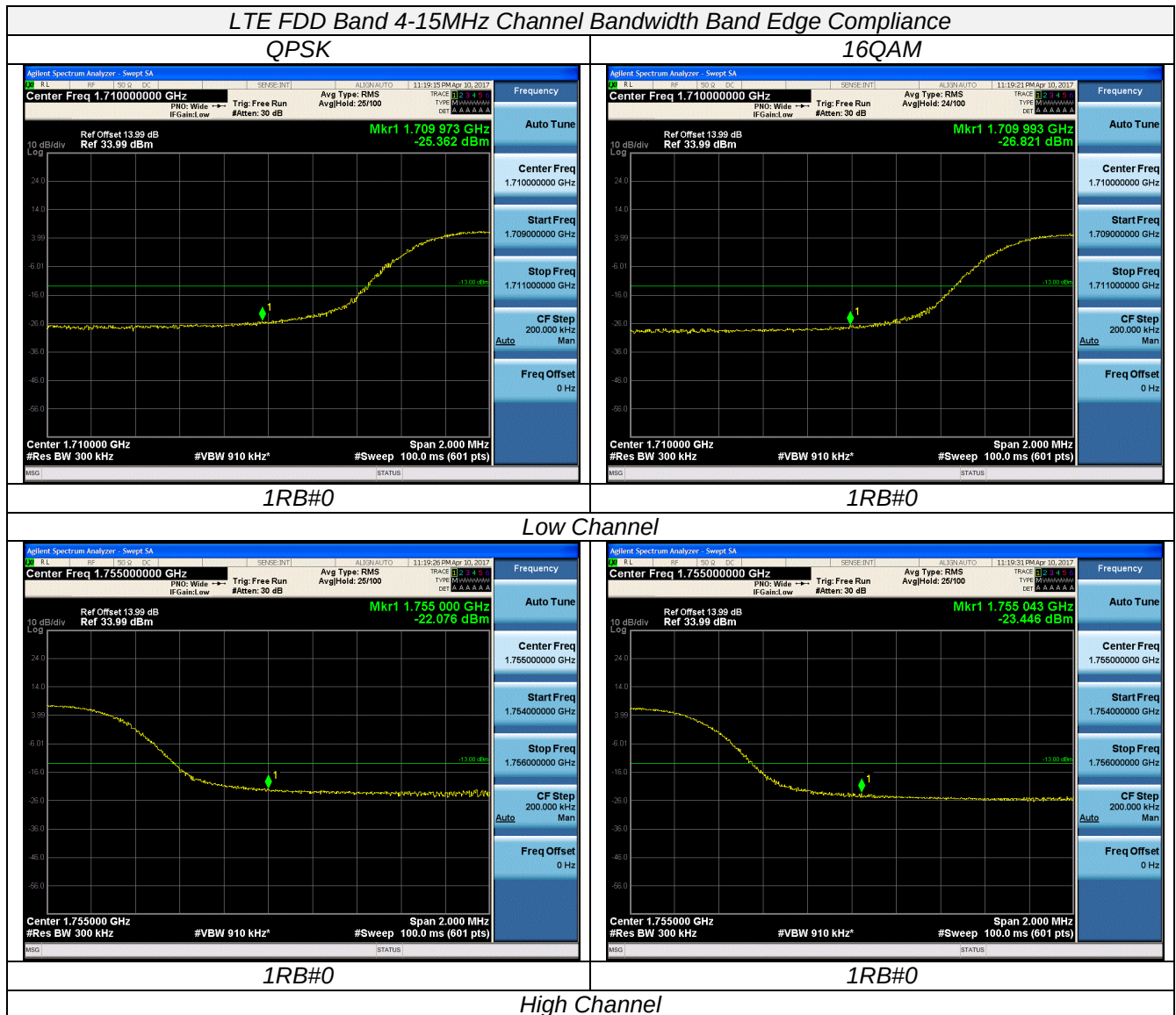
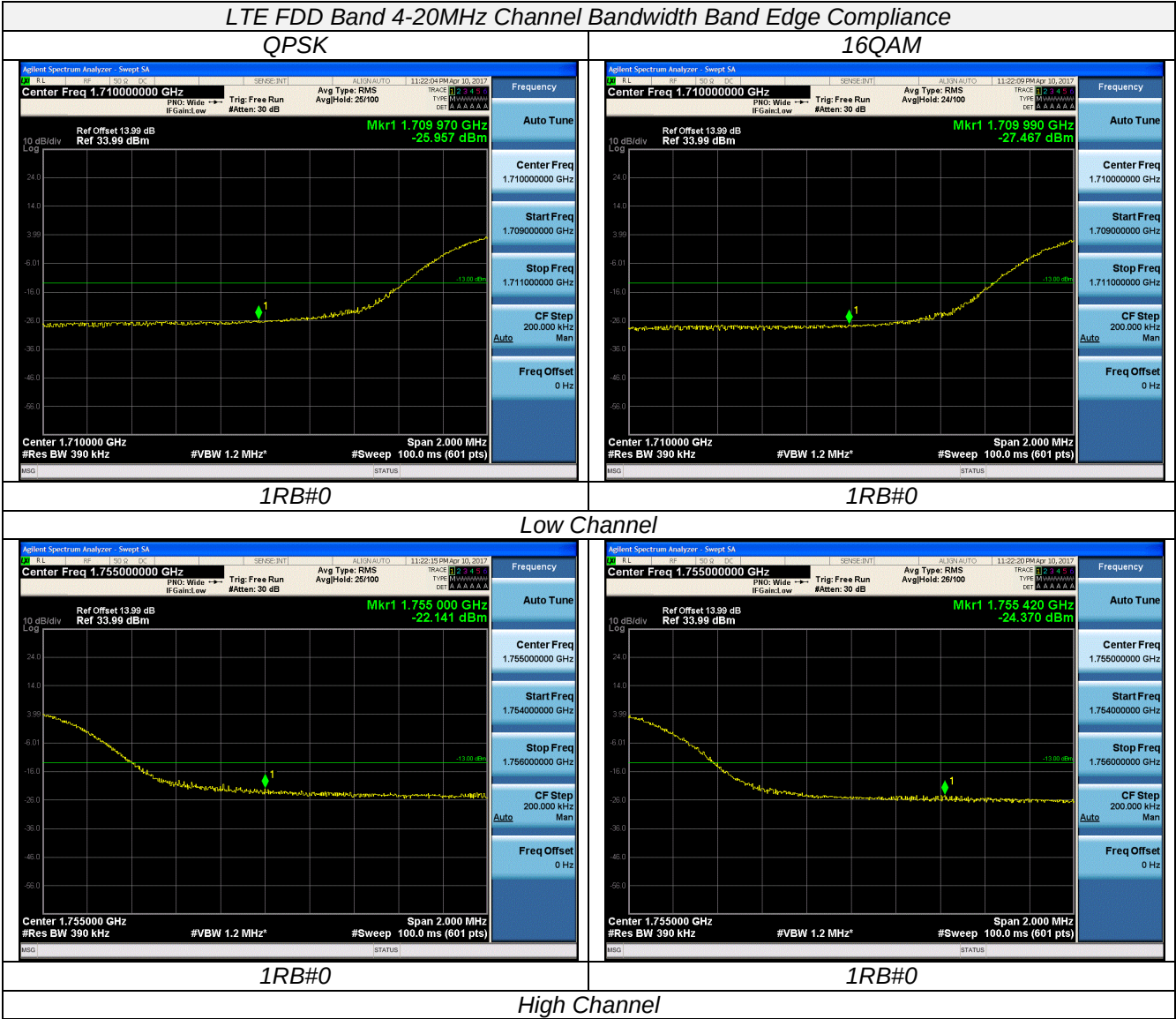










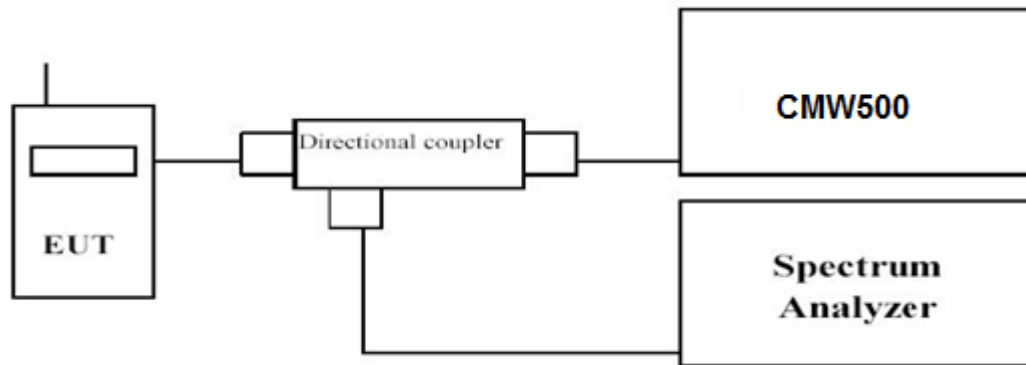
High Channel

4.5 Spurious Emission on Antenna Port

LIMIT

According to §27.53(h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.
- Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE FDD Band 4	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26.5	1 MHz	3 MHz	Auto

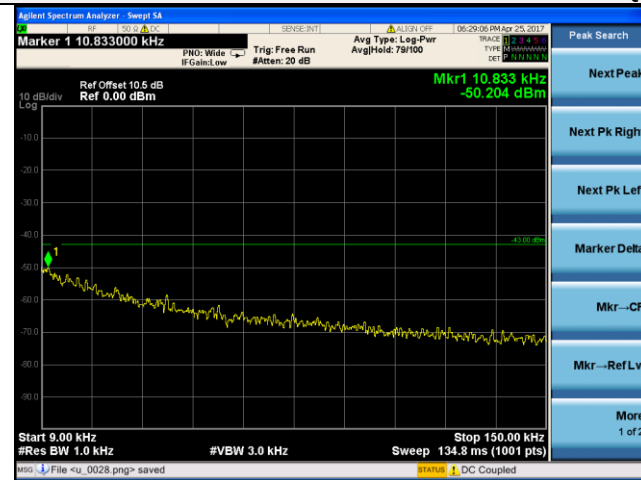
TEST RESULTS

Remark: The EUT supports two SIM card SIM1 and SIM2. For GSM, the SIM 1 and SIM 2 both support GSM. For WCDMA/LTE, Only SIM 1 support WCDMA/LTE. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

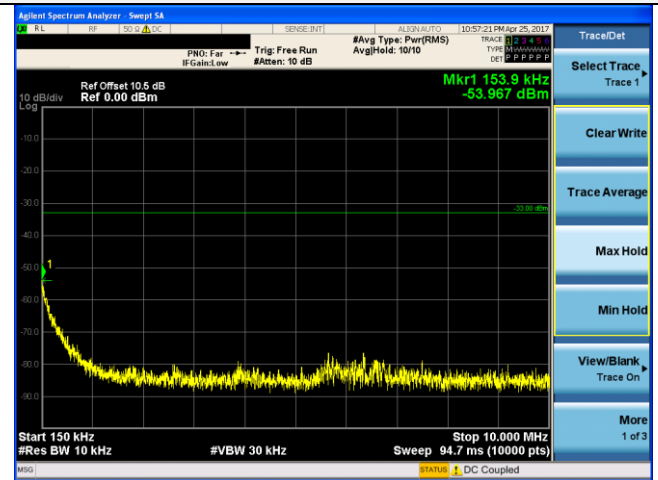
LTE FDD Band 4-1.4MHz Channel Bandwidth

Low Channel

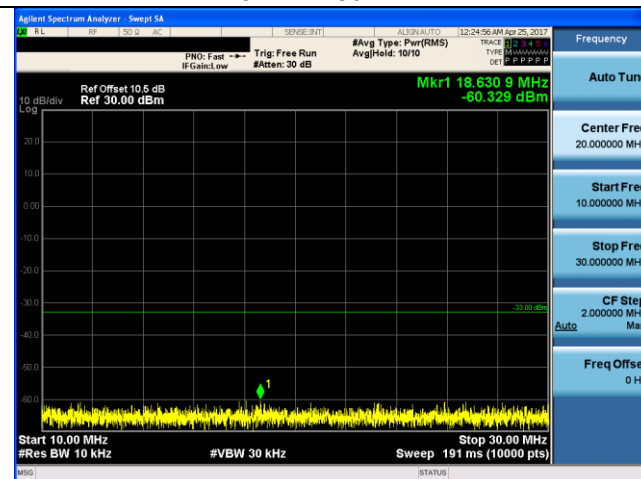
QPSK



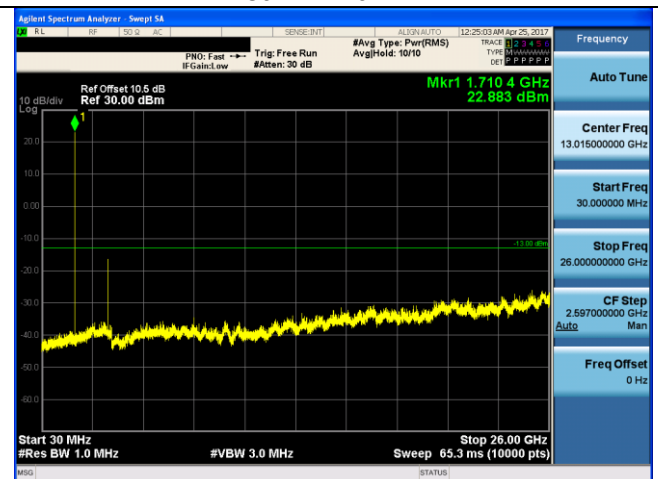
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

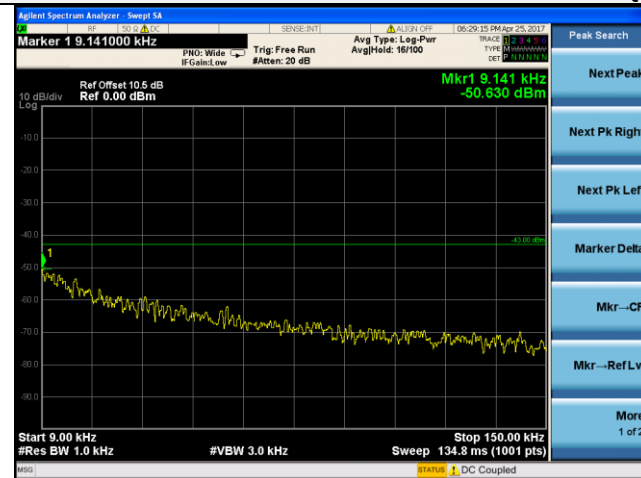


30MHz ~26 GHz

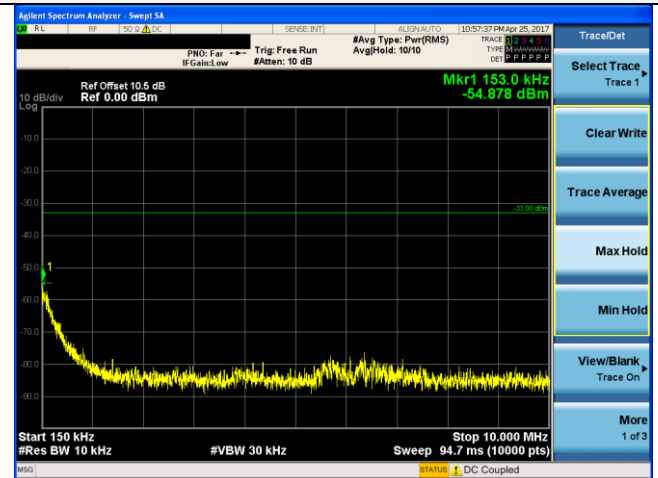
LTE FDD Band 4-1.4MHz Channel Bandwidth

Middle Channel

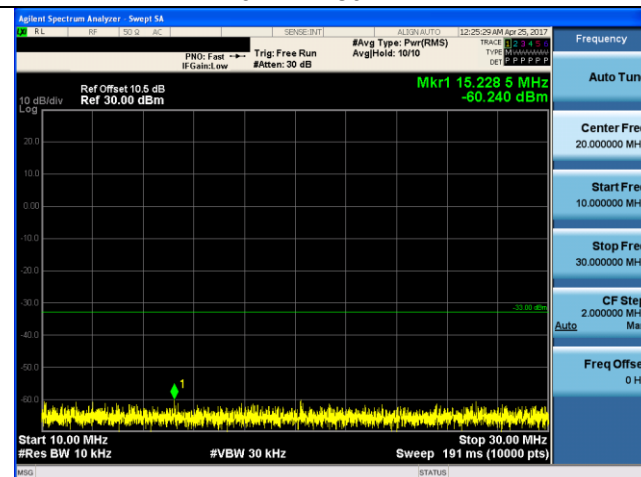
QPSK



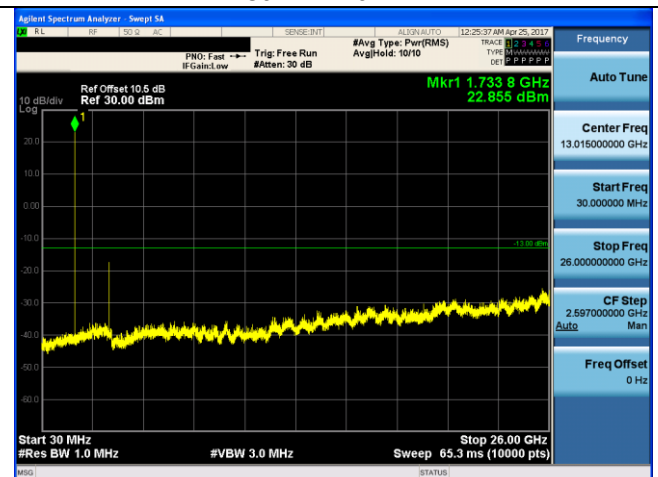
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

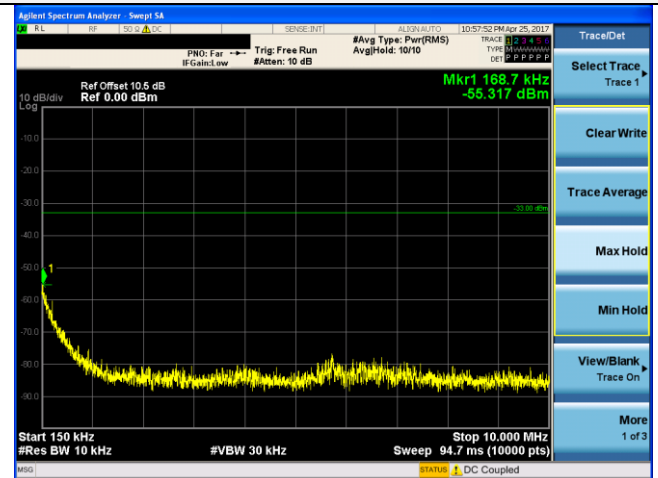
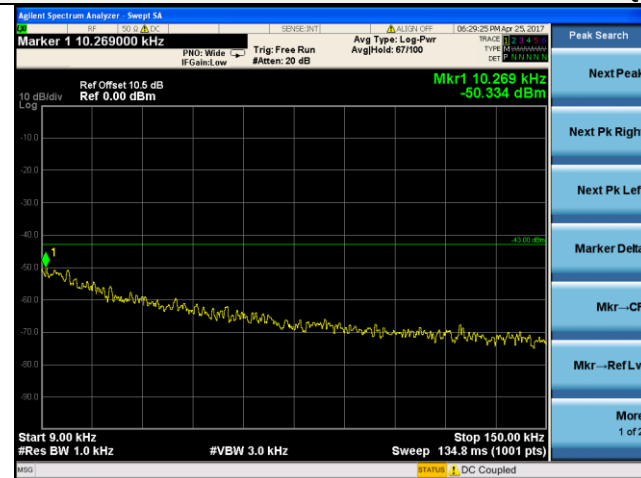


30MHz ~26 GHz

LTE FDD Band 4-1.4MHz Channel Bandwidth

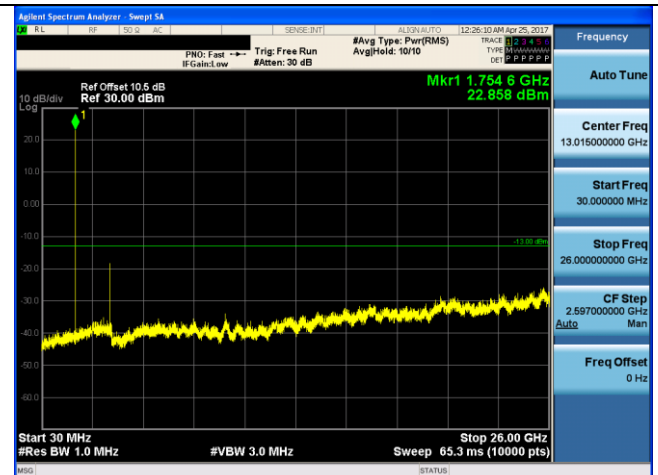
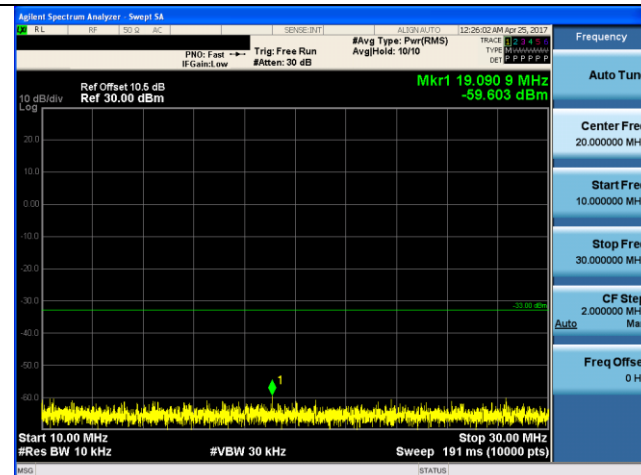
High Channel

QPSK



9KHz~150KHz

150KHz~10MHz



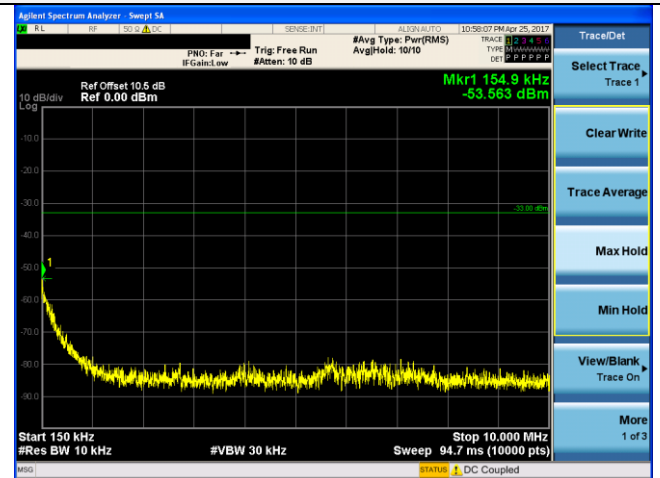
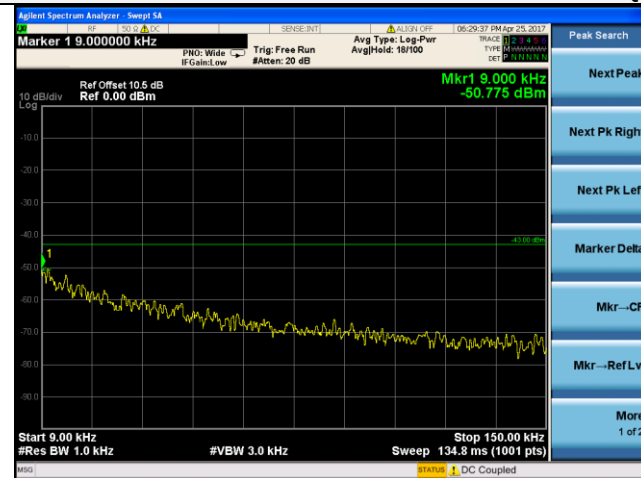
10MHz~30MHz

30MHz ~26 GHz

LTE FDD Band 4-3MHz Channel Bandwidth

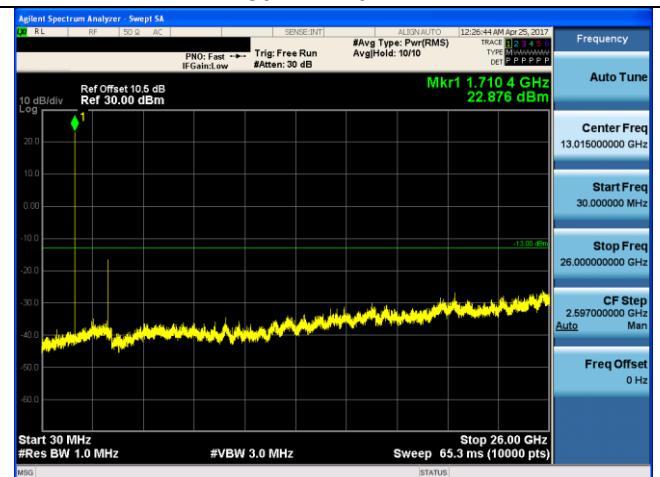
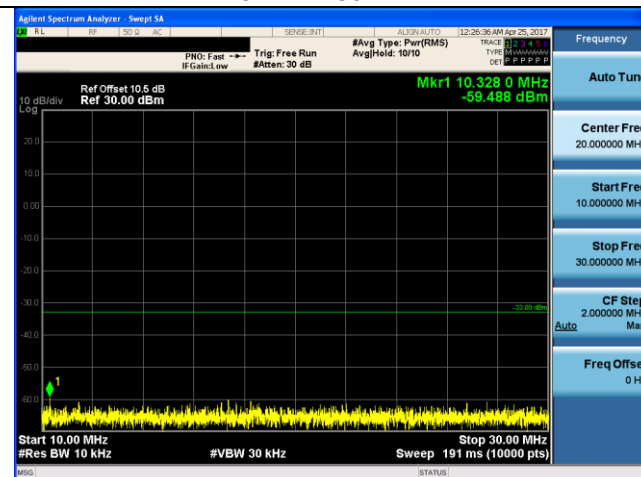
Low Channel

QPSK



9KHz~150KHz

150KHz~10MHz



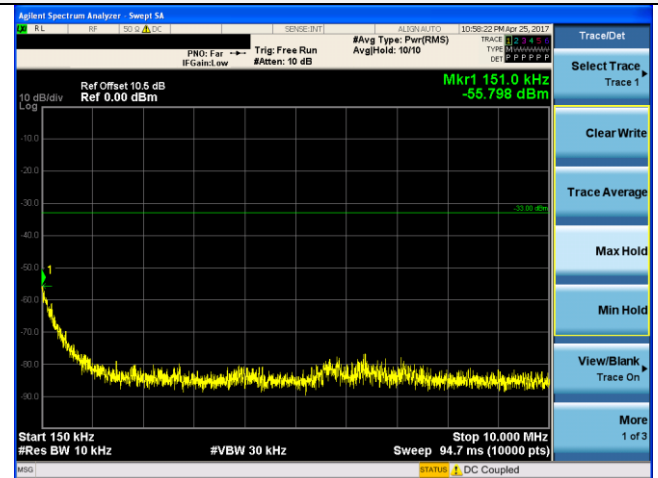
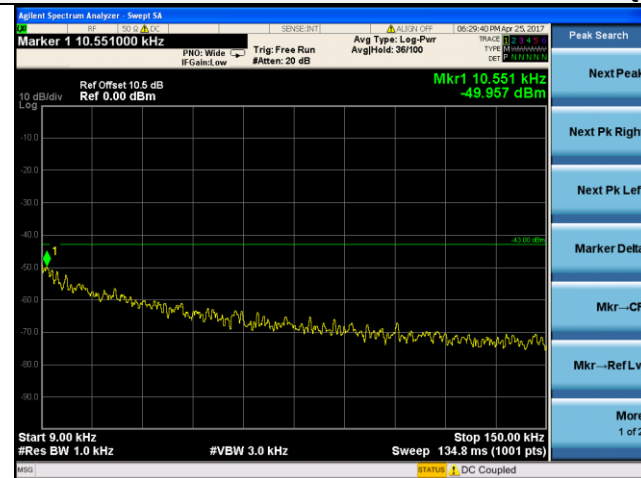
10MHz~30MHz

30MHz ~26 GHz

LTE FDD Band 4-3MHz Channel Bandwidth

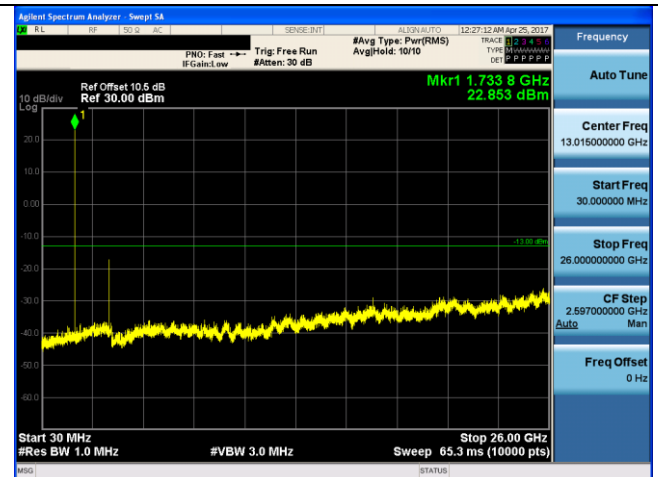
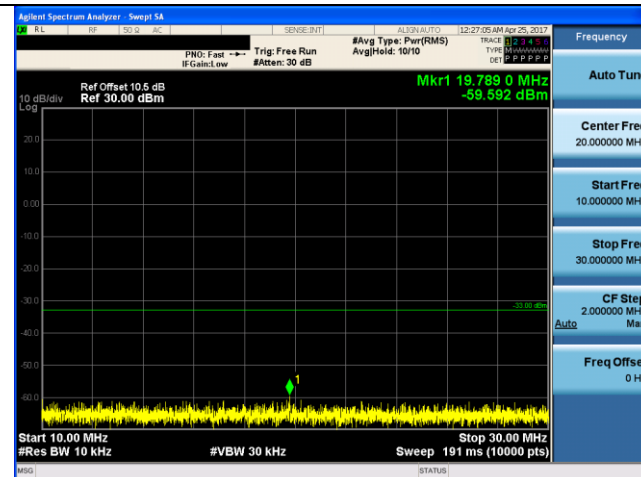
Middle Channel

QPSK



9KHz~150KHz

150KHz~10MHz



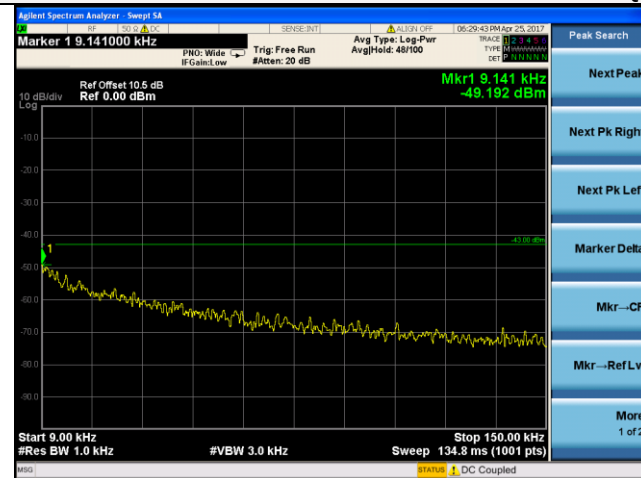
10MHz~30MHz

30MHz ~26 GHz

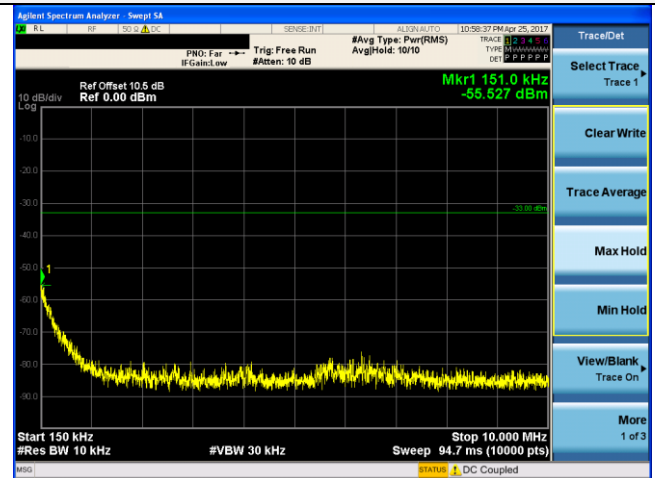
LTE FDD Band 4-3MHz Channel Bandwidth

High Channel

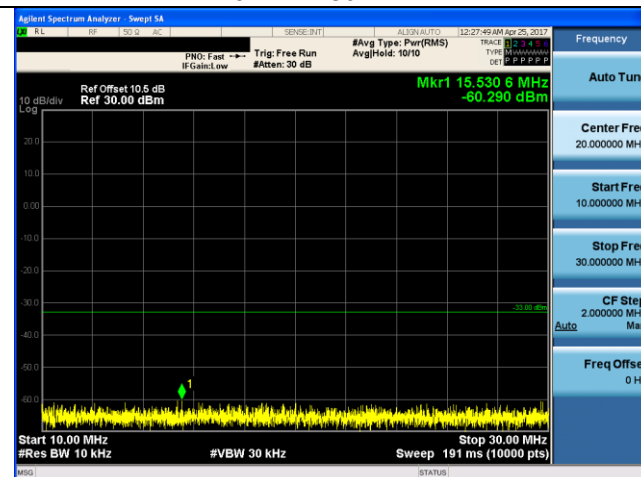
QPSK



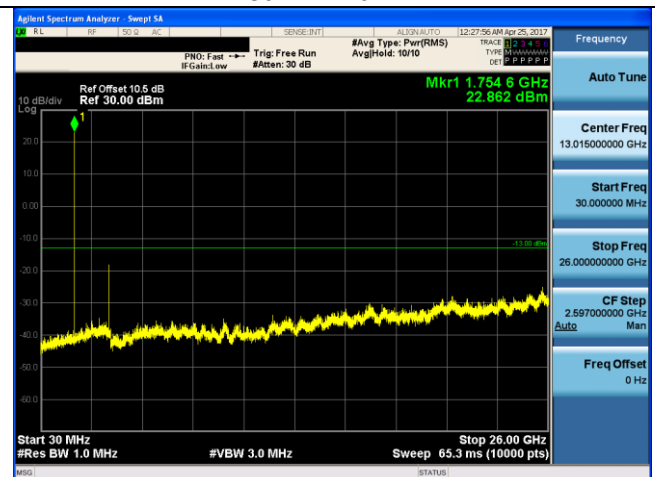
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

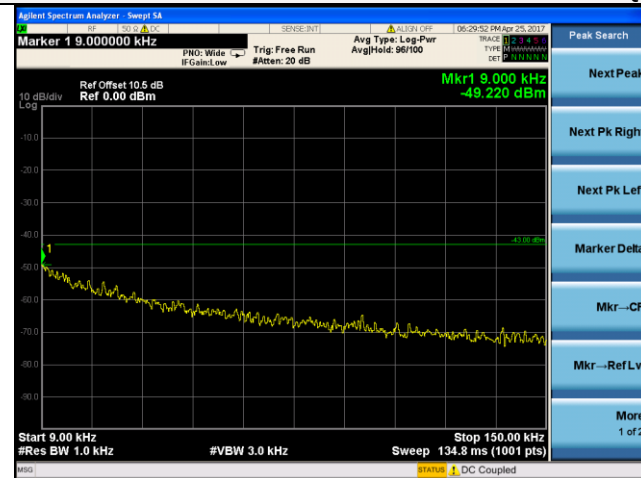


30MHz ~26 GHz

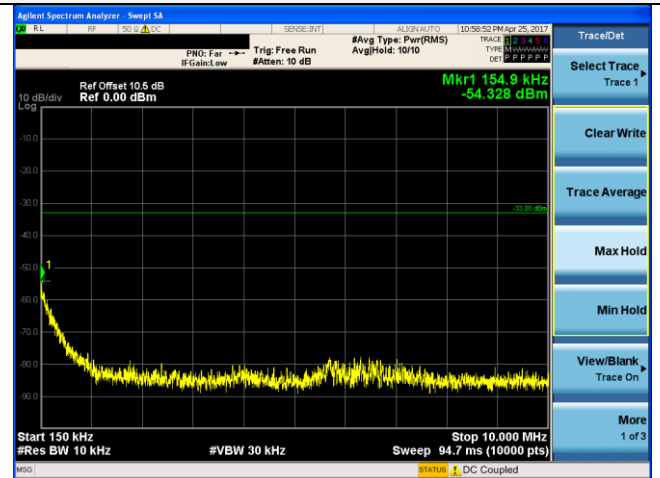
LTE FDD Band 4-5 MHz Channel Bandwidth

Low Channel

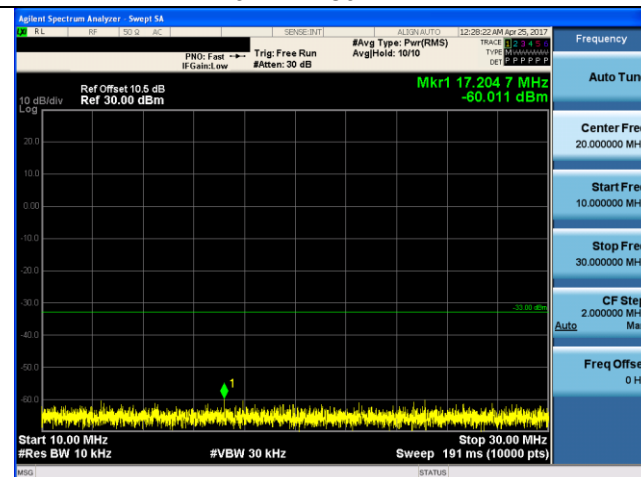
QPSK



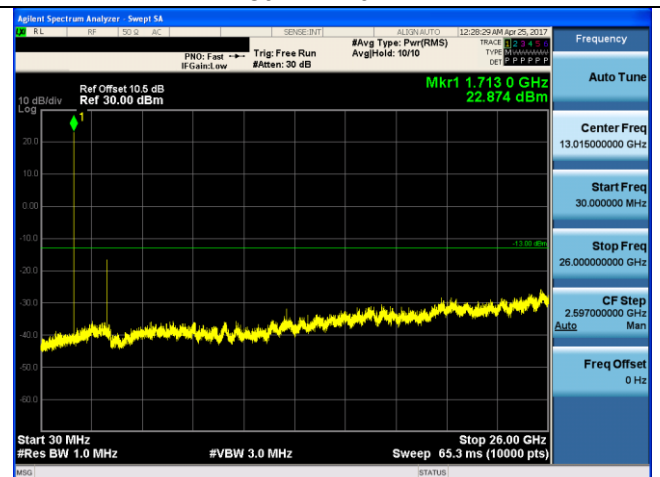
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

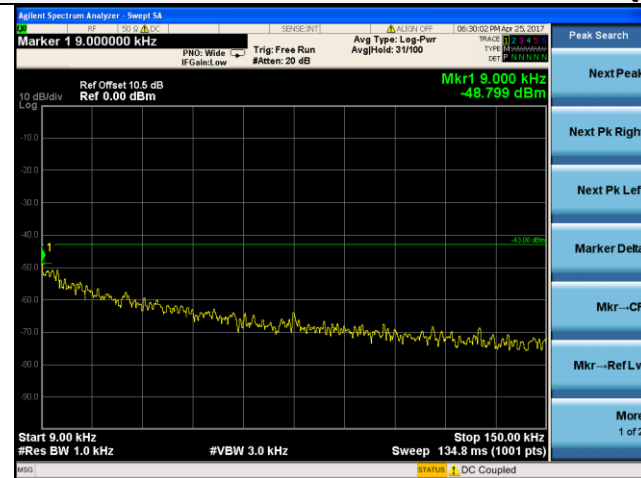


30MHz ~26 GHz

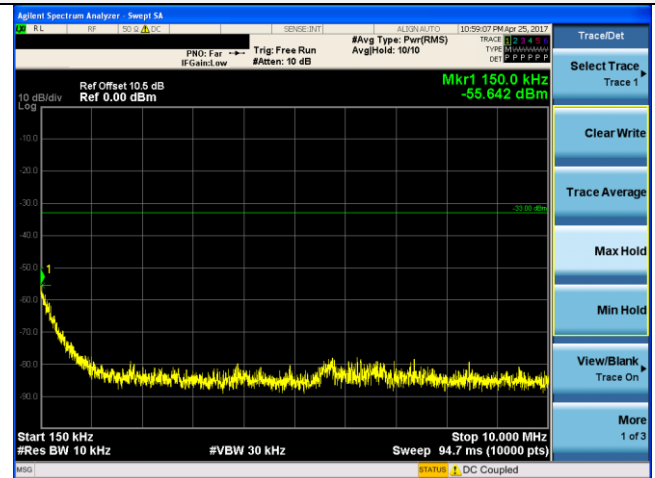
LTE FDD Band 4-5 MHz Channel Bandwidth

Middle Channel

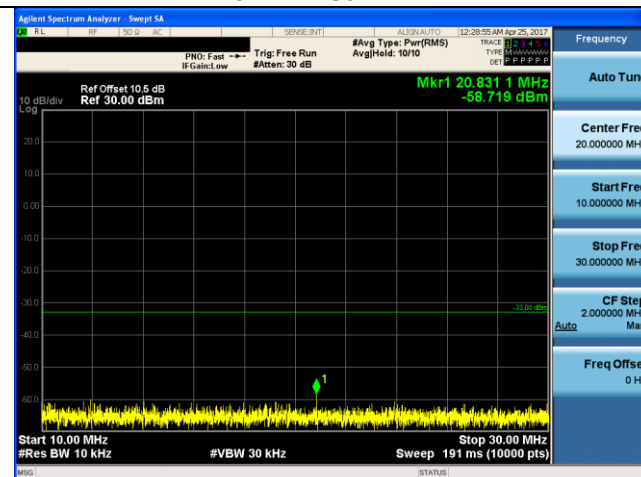
QPSK



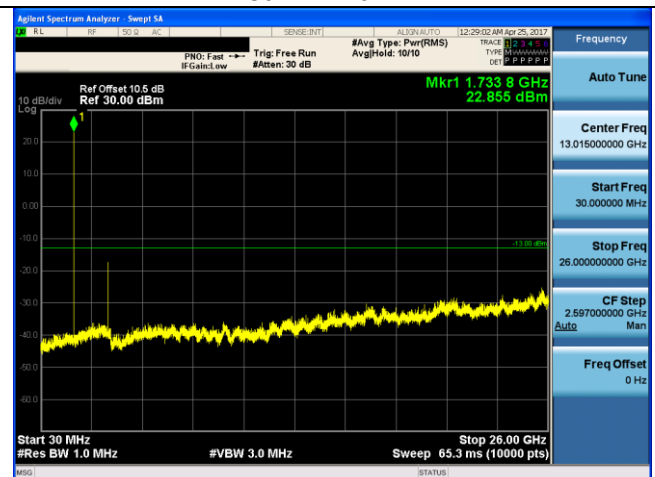
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

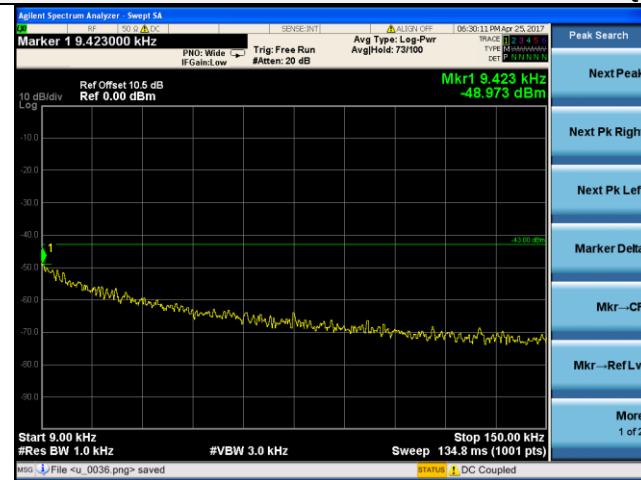


30MHz ~26 GHz

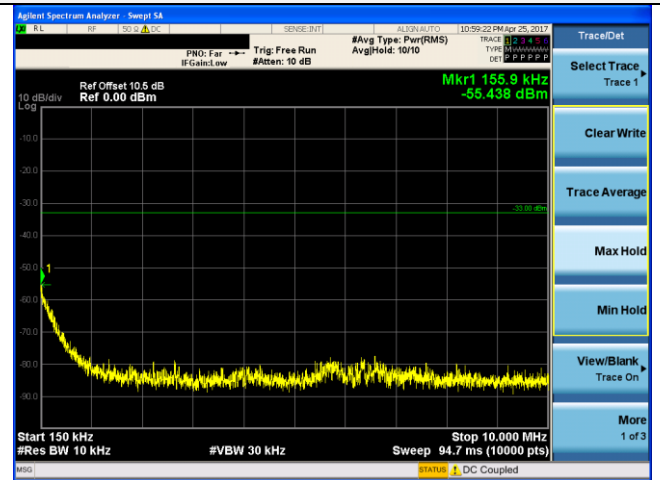
LTE FDD Band 4-5 MHz Channel Bandwidth

High Channel

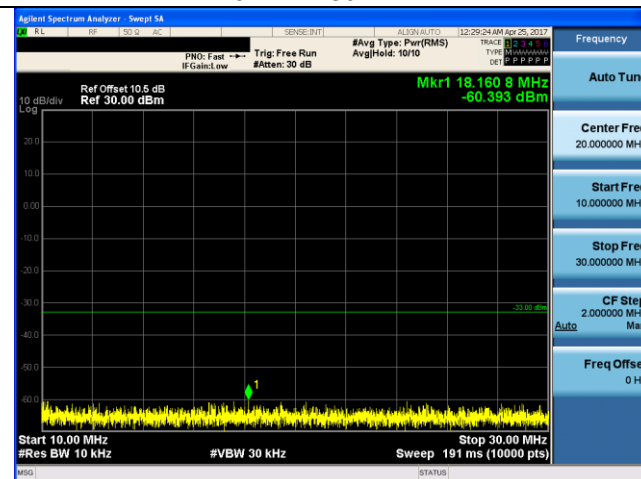
QPSK



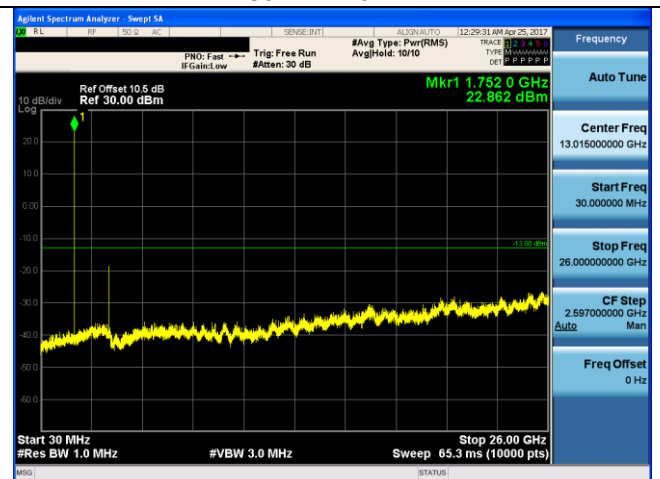
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

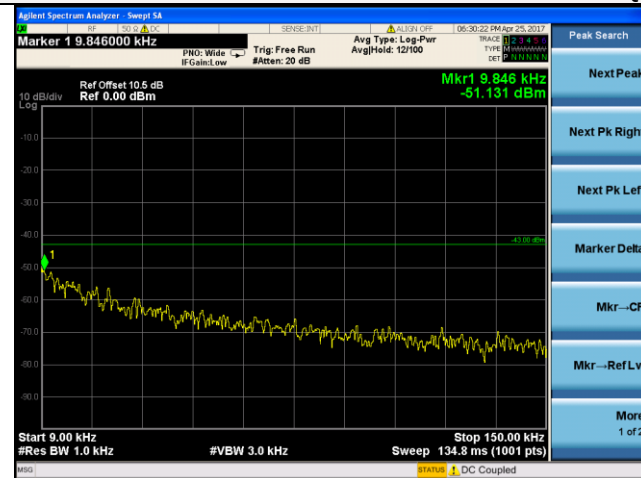


30MHz ~26 GHz

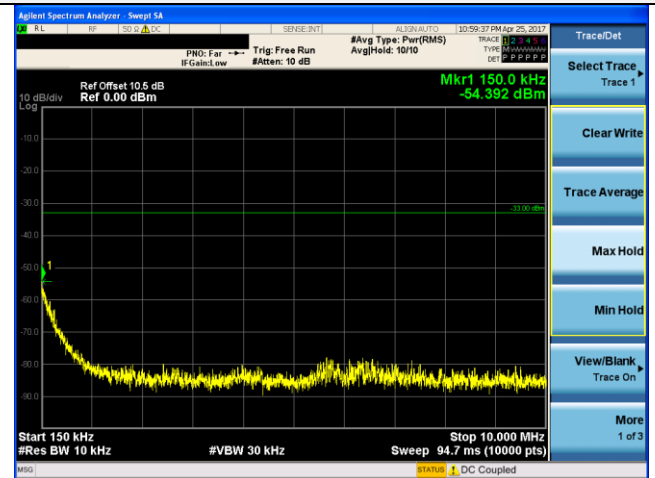
LTE FDD Band 4-10 MHz Channel Bandwidth

Low Channel

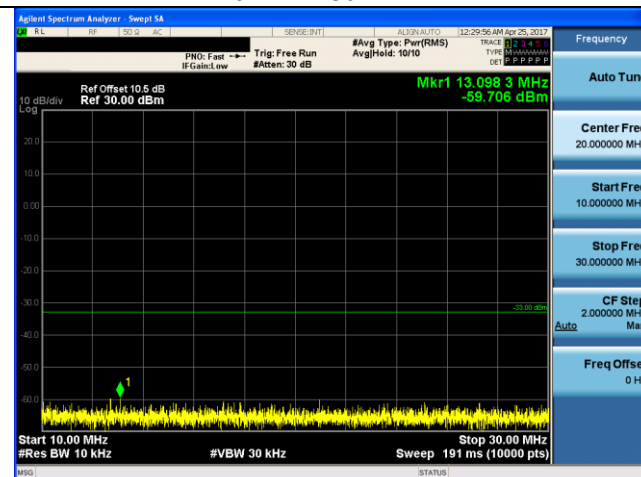
QPSK



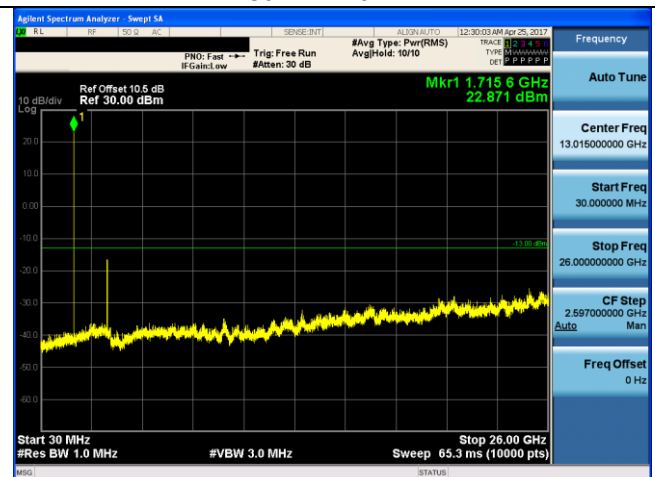
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

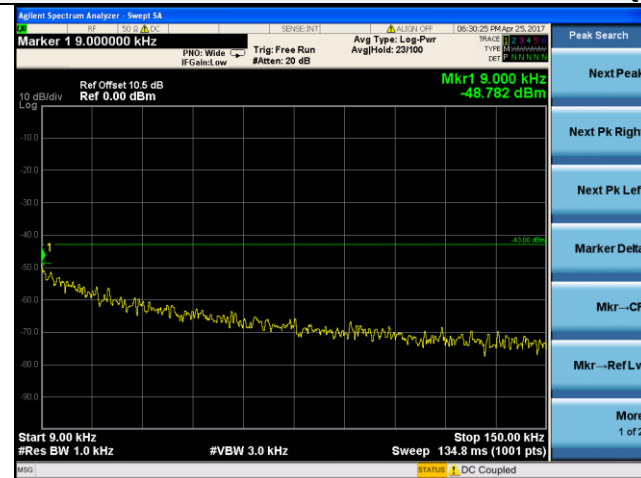


30MHz ~26 GHz

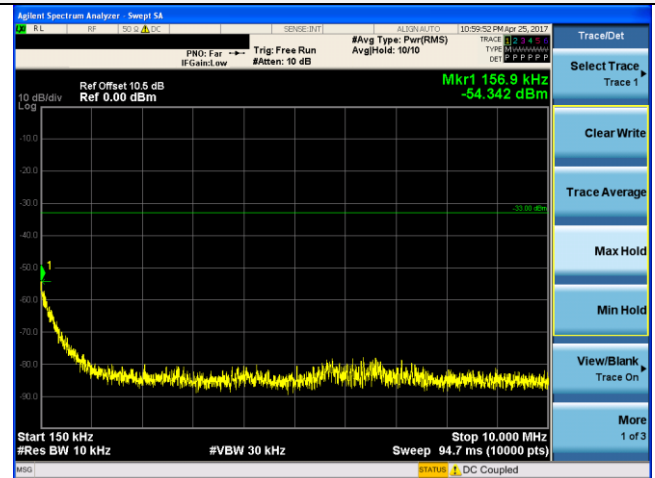
LTE FDD Band 4-10 MHz Channel Bandwidth

Middle Channel

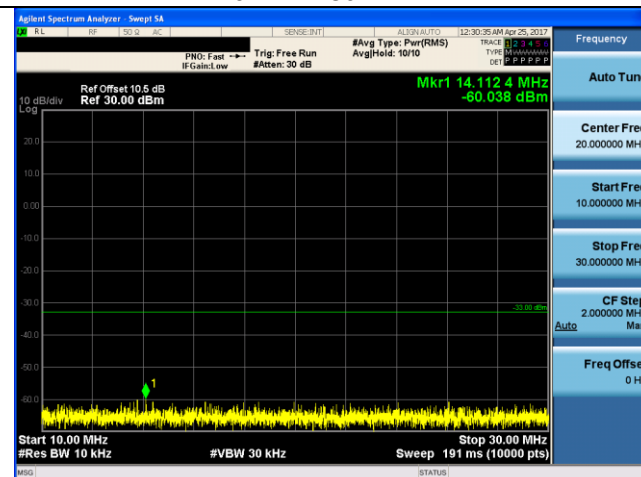
QPSK



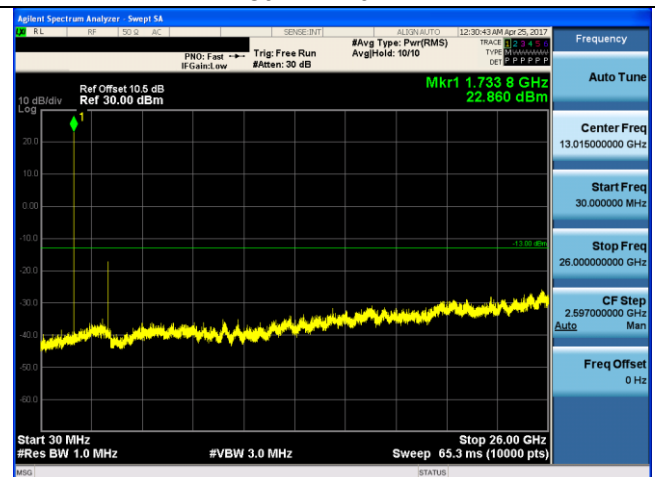
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz

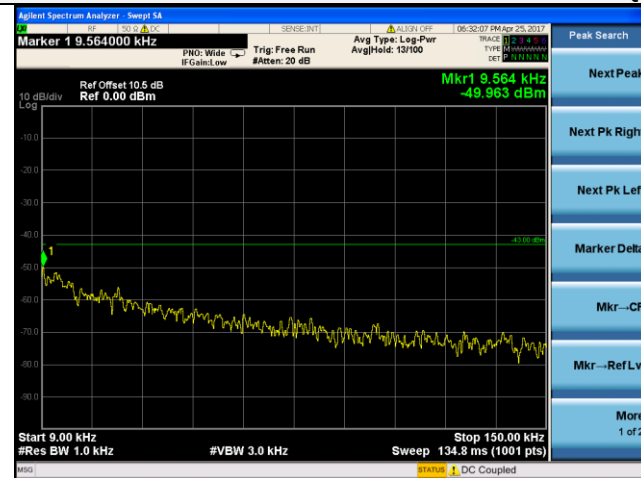


30MHz ~26 GHz

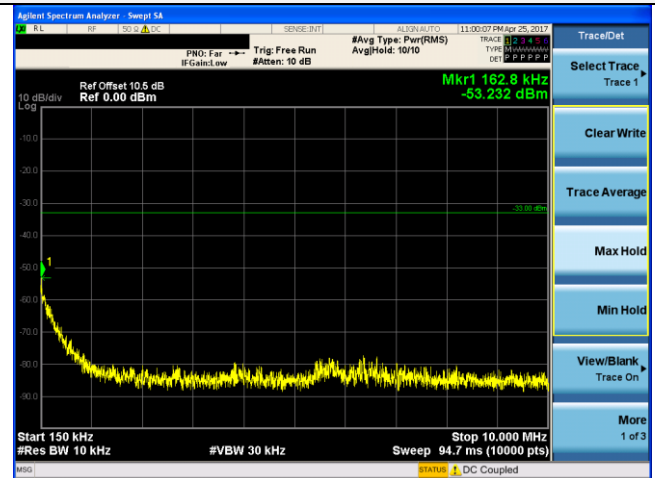
LTE FDD Band 4-10 MHz Channel Bandwidth

High Channel

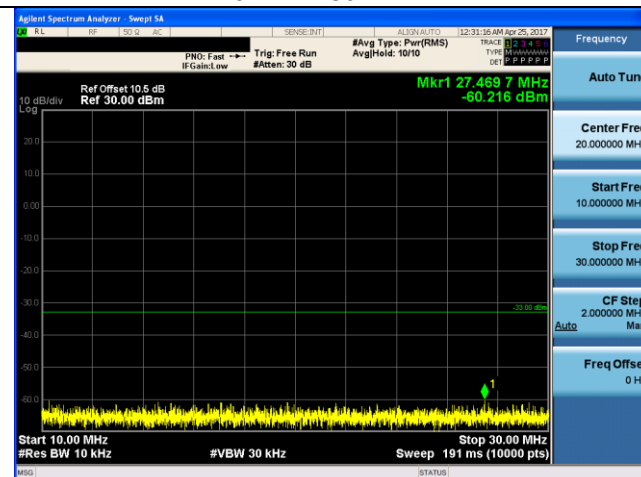
QPSK



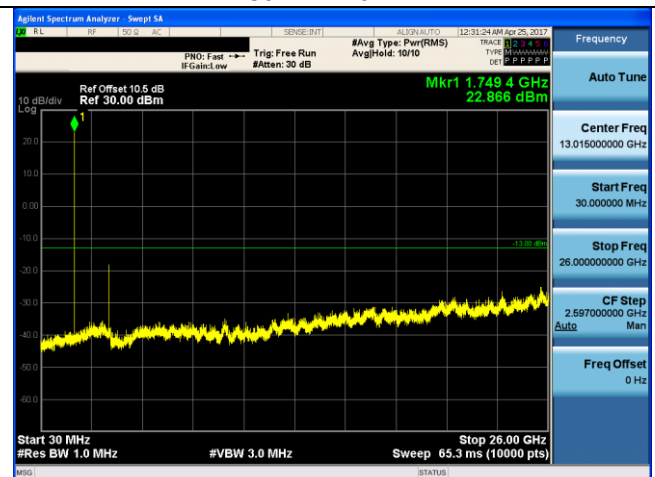
9KHz~150KHz



150KHz~10MHz



10MHz~30MHz



30MHz ~26 GHz