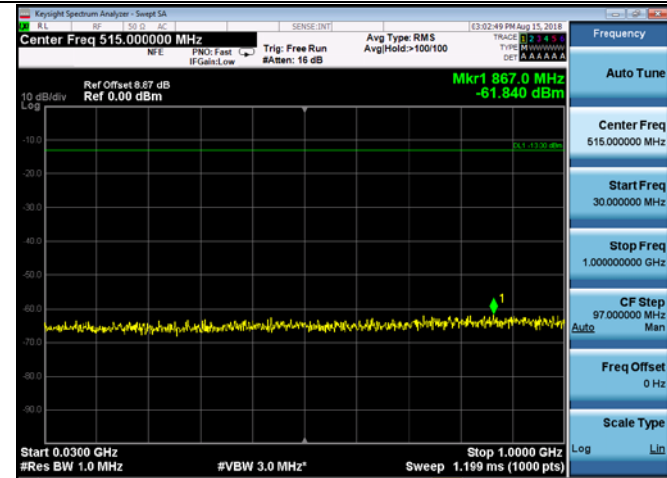


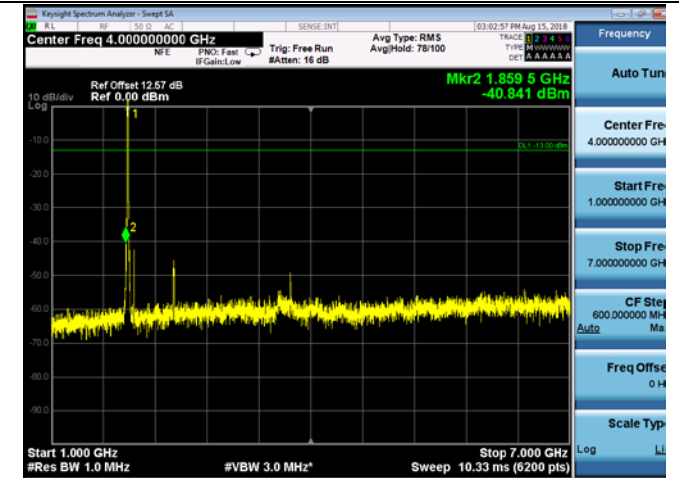


WCDMA 1900MHz CH9400 1880.0MHz

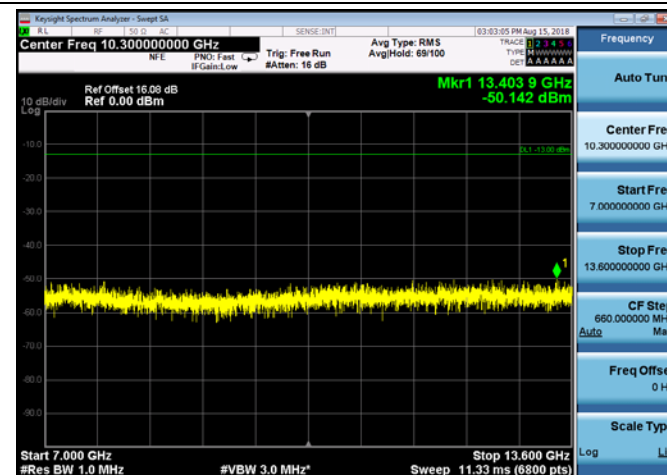
Frequency Range: 30MHz-1GHz



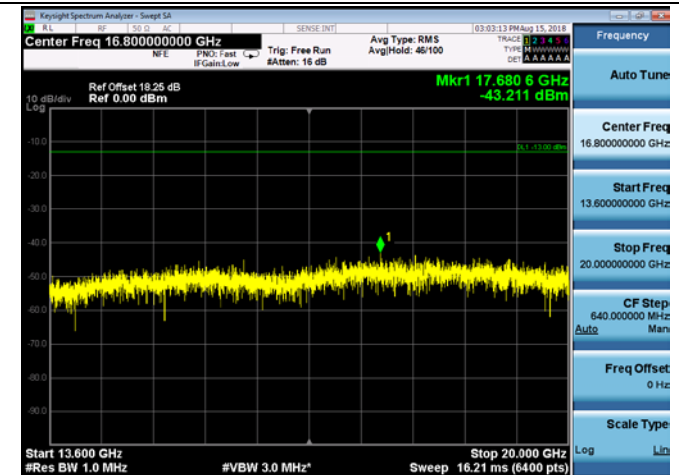
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



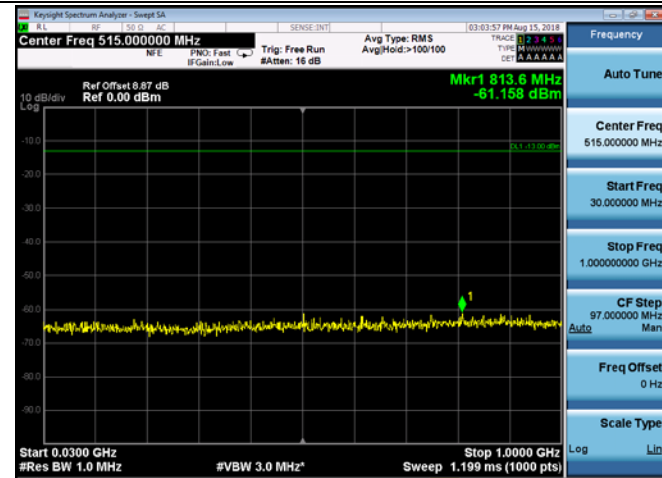
Frequency Range: 13.6GHz-20GHz



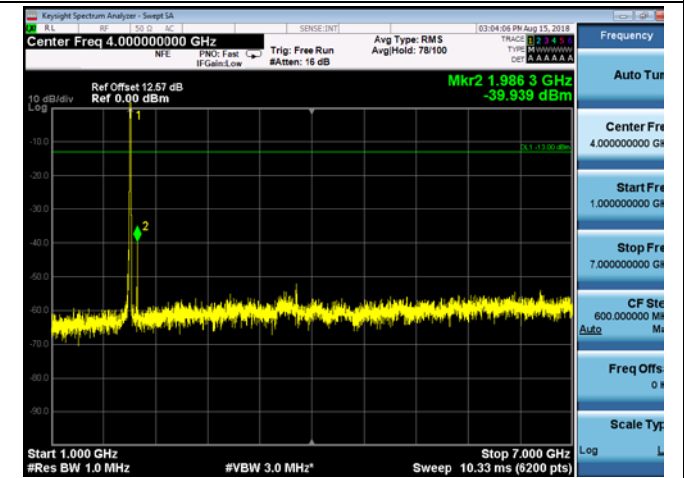


WCDMA 1900MHz CH9538 1907.6MHz

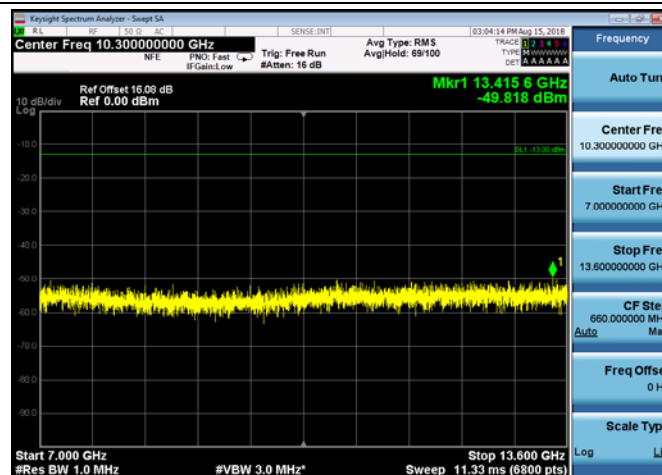
Frequency Range: 30MHz-1GHz



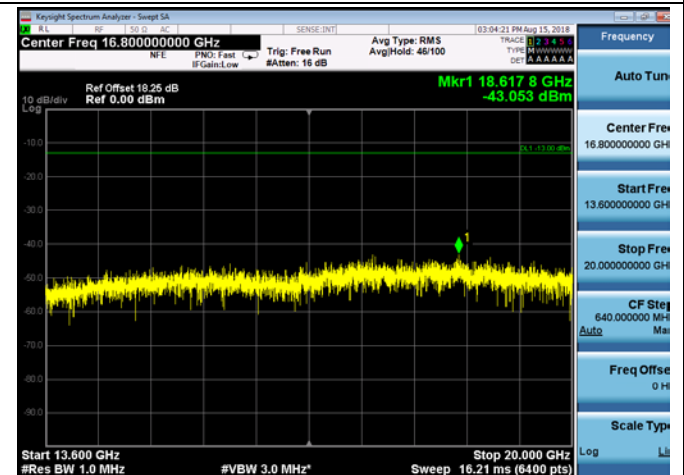
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



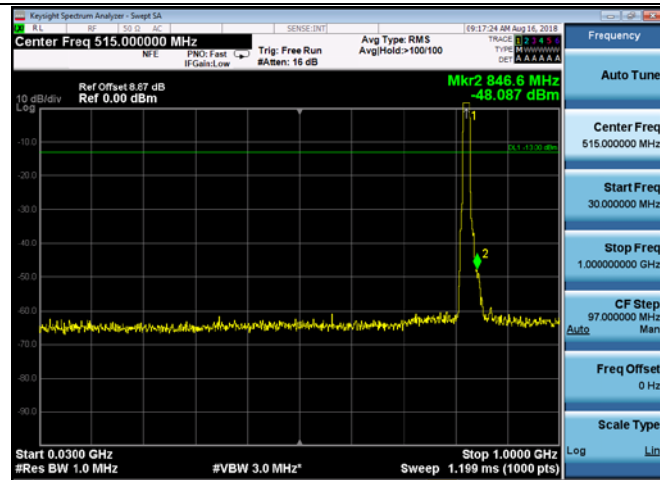
Frequency Range: 13.6GHz-20GHz



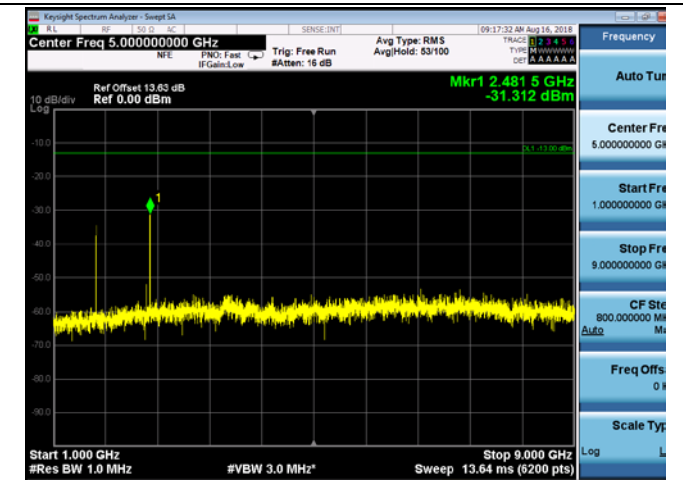


HSDPA 850MHz CH4132 826.4MHz

Frequency Range: 30MHz-1GHz

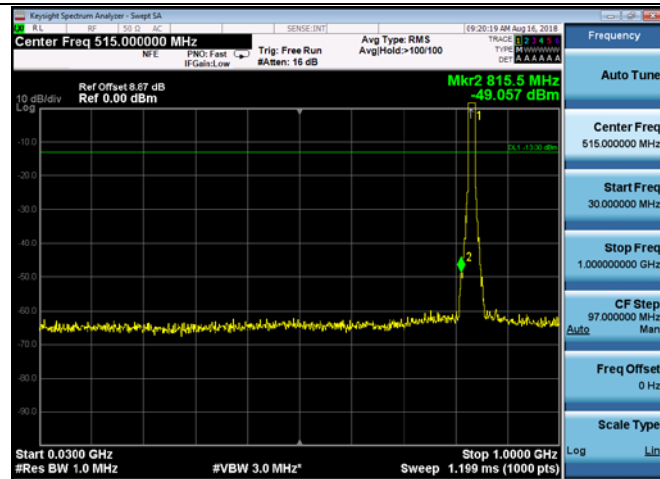


Frequency Range: 1GHz-9GHz

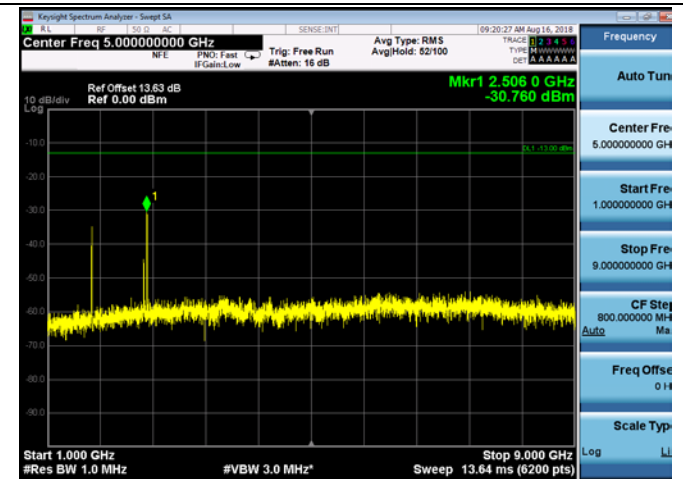


HSDPA 850MHz CH4182 836.4MHz

Frequency Range: 30MHz-1GHz



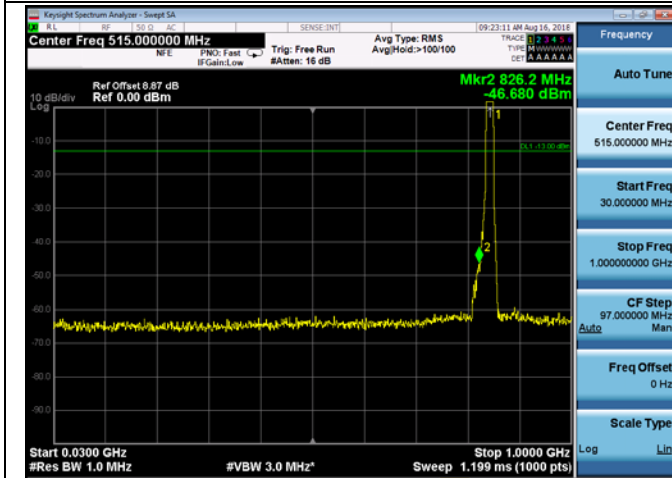
Frequency Range: 1GHz-9GHz



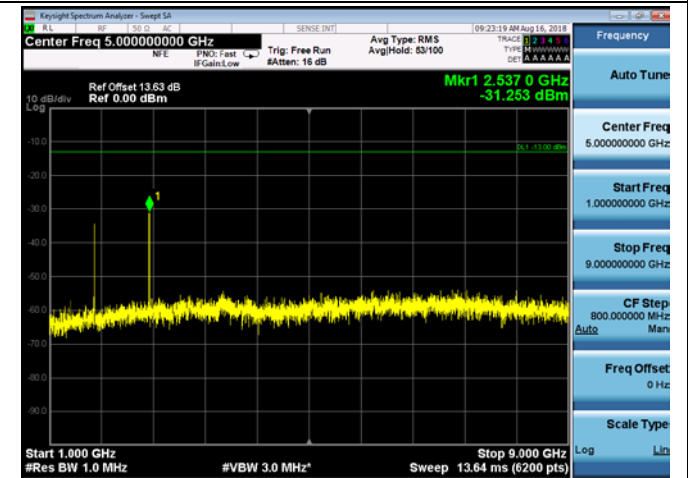


HSDPA 850MHz CH4233 846.6MHz

Frequency Range: 30MHz-1GHz



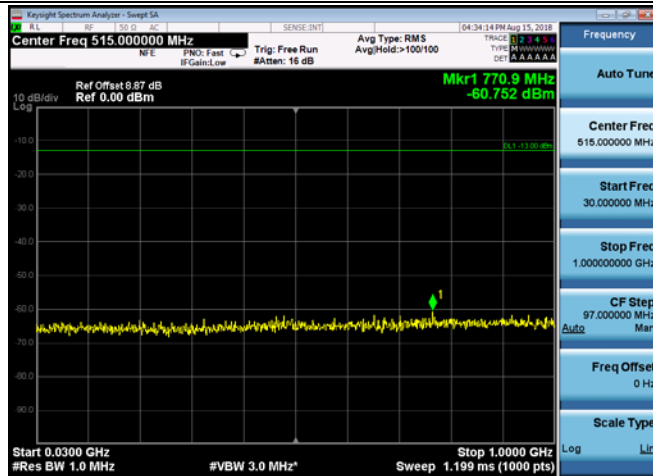
Frequency Range: 1GHz-9GHz



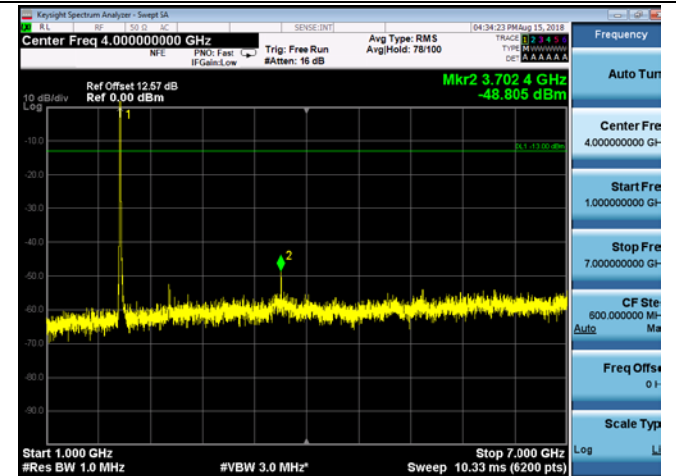


HSDPA 1900MHz CH9262 1852.4MHz

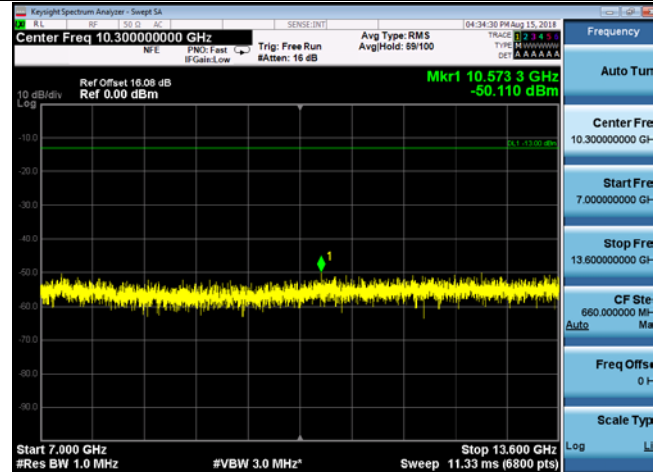
Frequency Range: 30MHz-1GHz



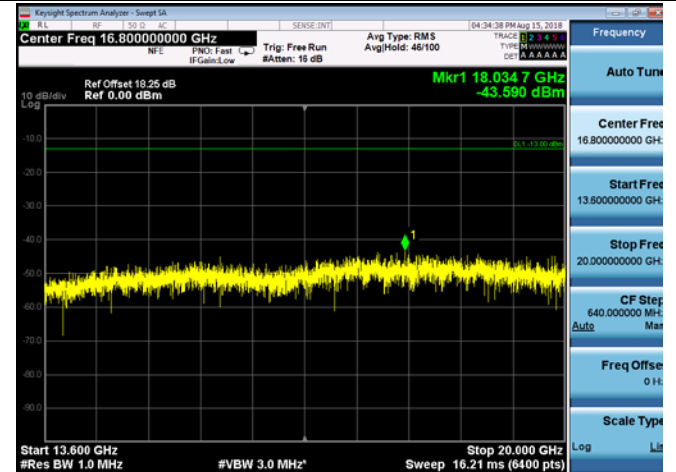
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



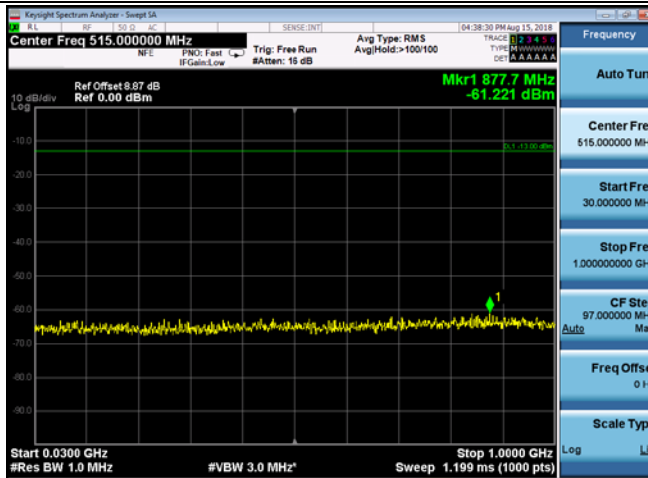
Frequency Range: 13.6GHz-20GHz



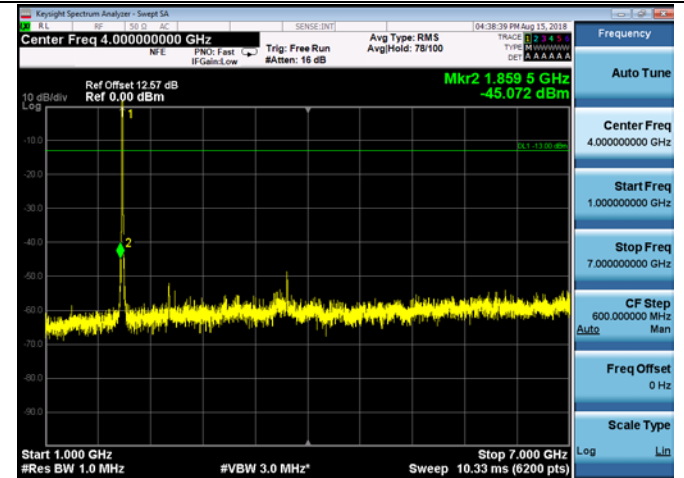


HSDPA 1900MHz CH9400 1880.0MHz

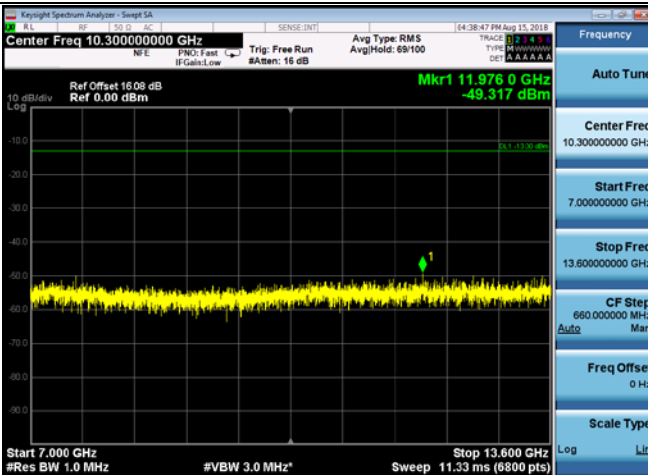
Frequency Range: 30MHz-1GHz



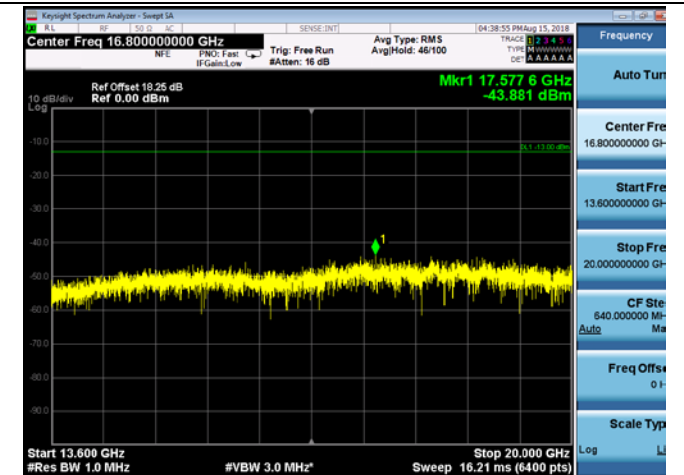
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



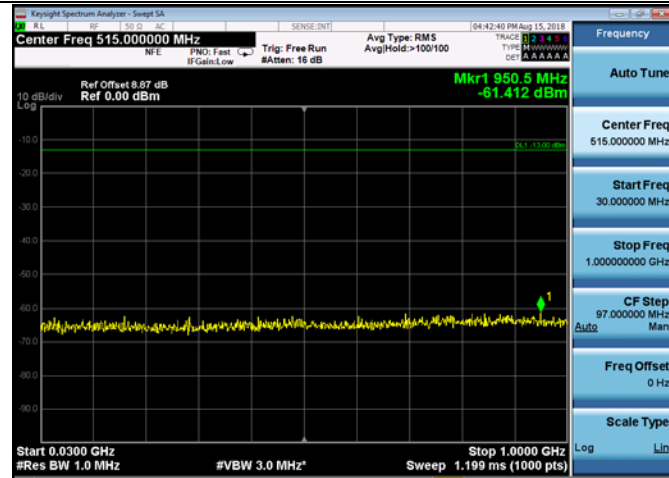
Frequency Range: 13.6GHz-20GHz



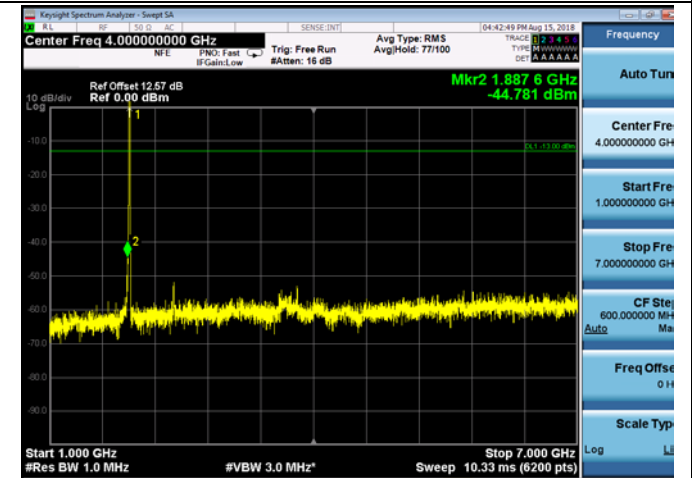


HSDPA 1900MHz CH9538 1907.6MHz

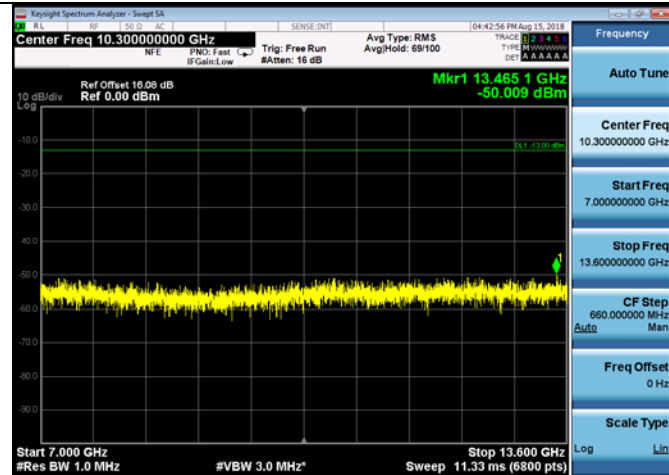
Frequency Range: 30MHz-1GHz



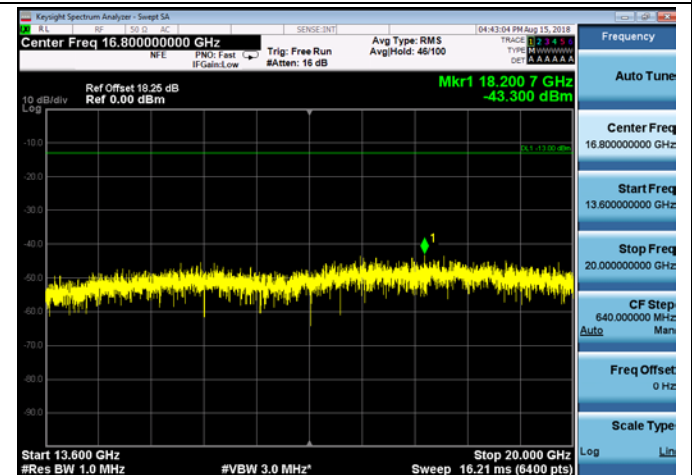
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



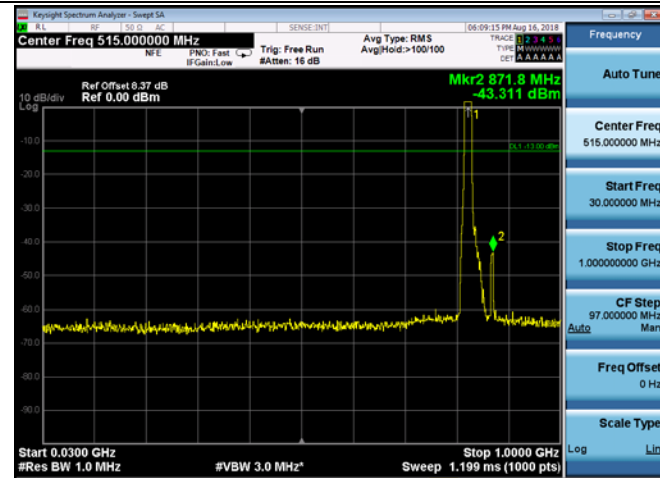
Frequency Range: 13.6GHz-20GHz



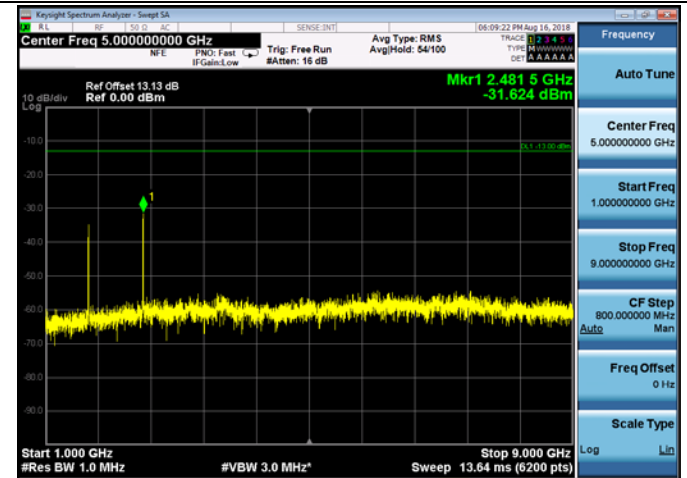


HSUPA 850MHz CH4132 826.4MHz

Frequency Range: 30MHz-1GHz

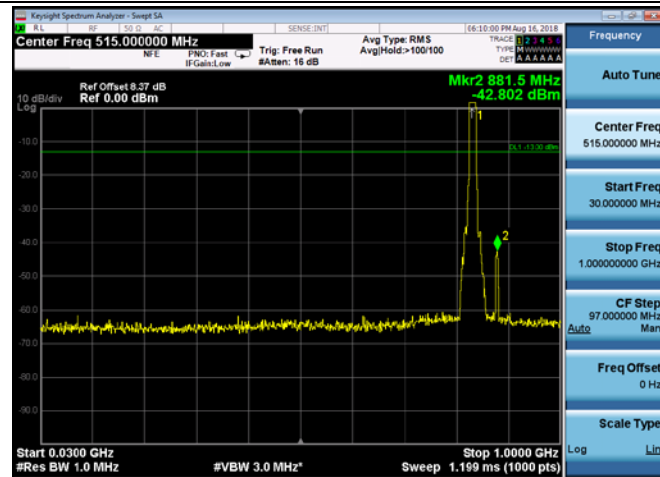


Frequency Range: 1GHz-9GHz

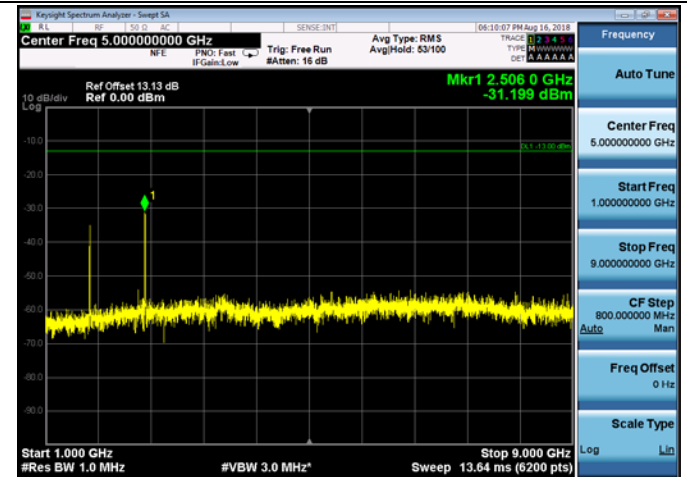


HSUPA 850MHz CH4182 836.4MHz

Frequency Range: 30MHz-1GHz



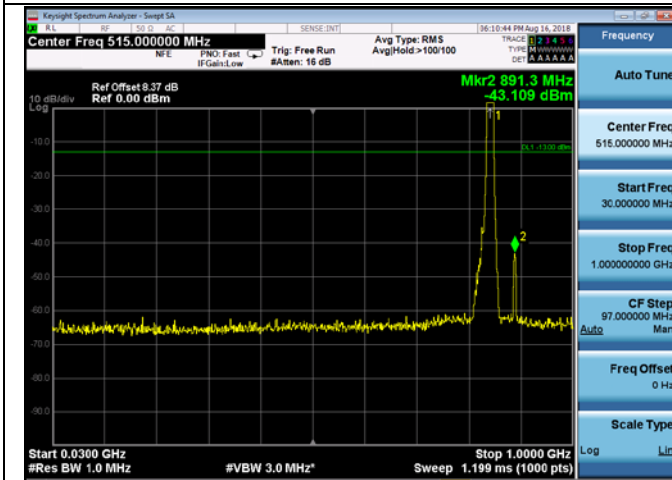
Frequency Range: 1GHz-9GHz



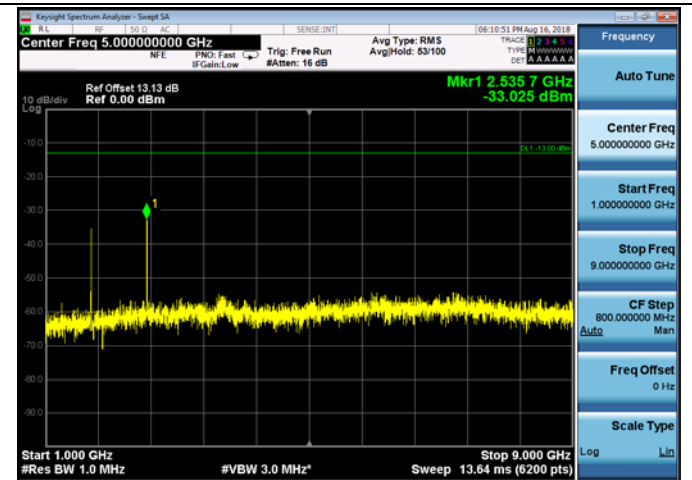


HSUPA 850MHz CH4233 846.6MHz

Frequency Range: 30MHz-1GHz



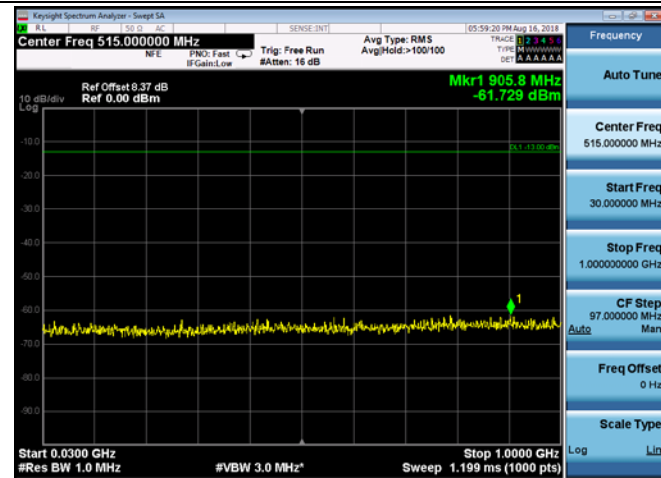
Frequency Range: 1GHz-9GHz



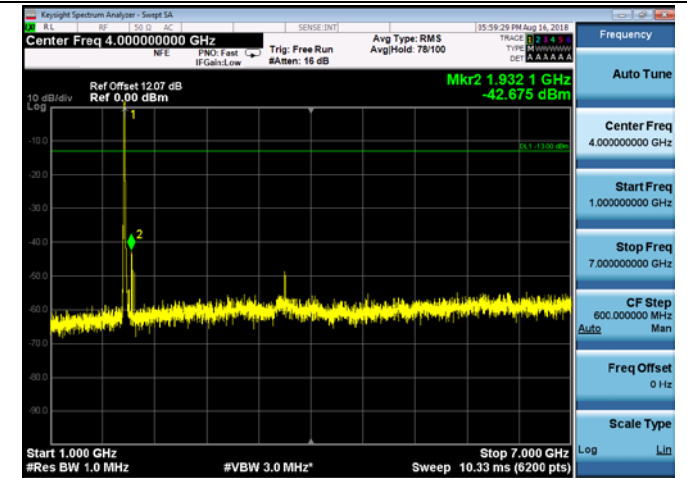


HUSPA 1900MHz CH9262 1852.4MHz

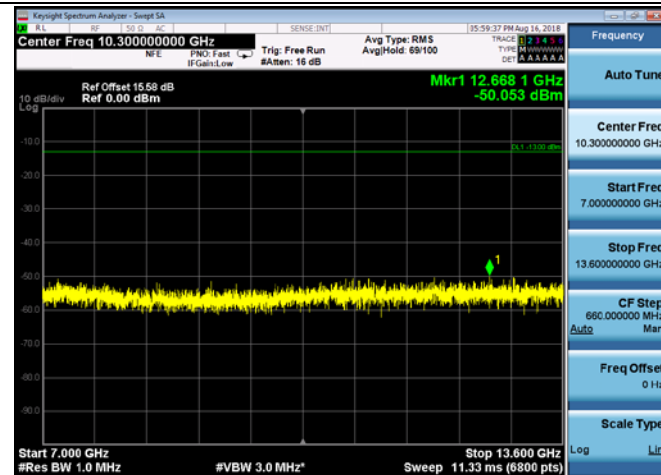
Frequency Range: 30MHz-1GHz



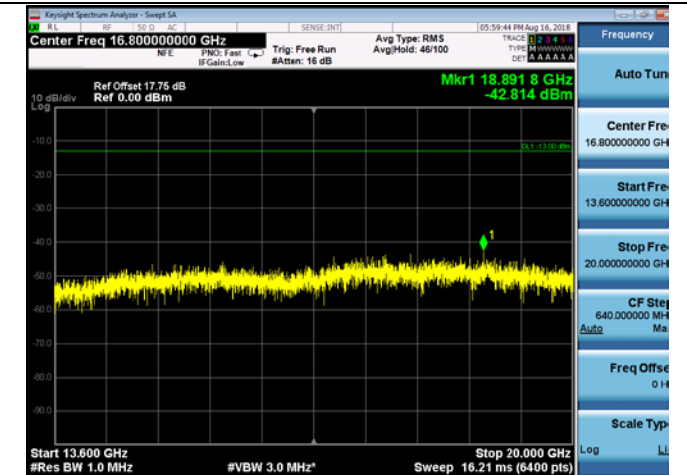
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



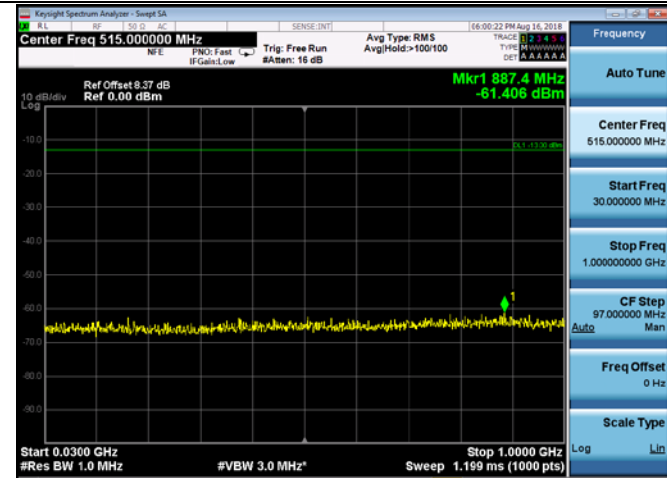
Frequency Range: 13.6GHz-20GHz



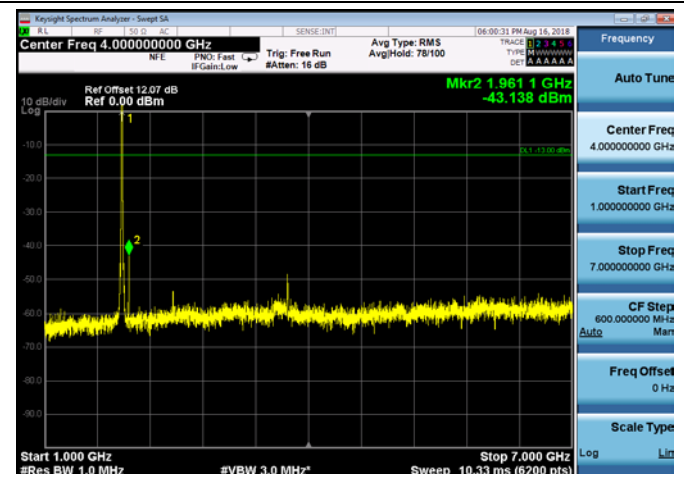


HSUPA 1900MHz CH9400 1880.0MHz

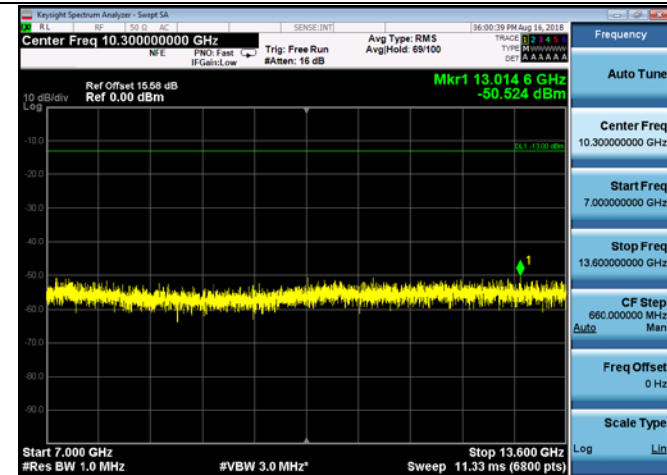
Frequency Range: 30MHz-1GHz



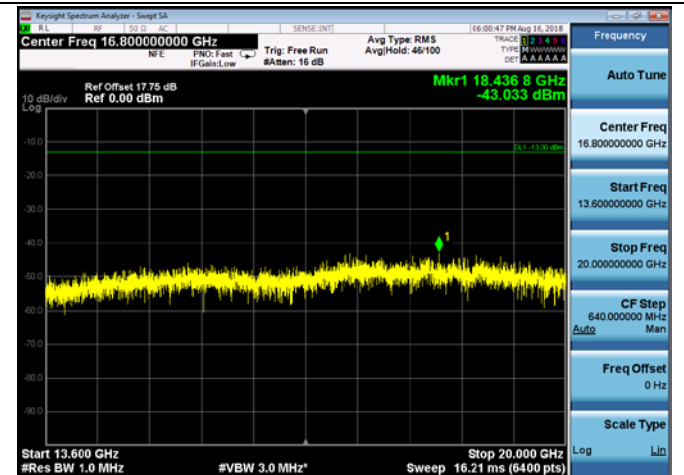
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



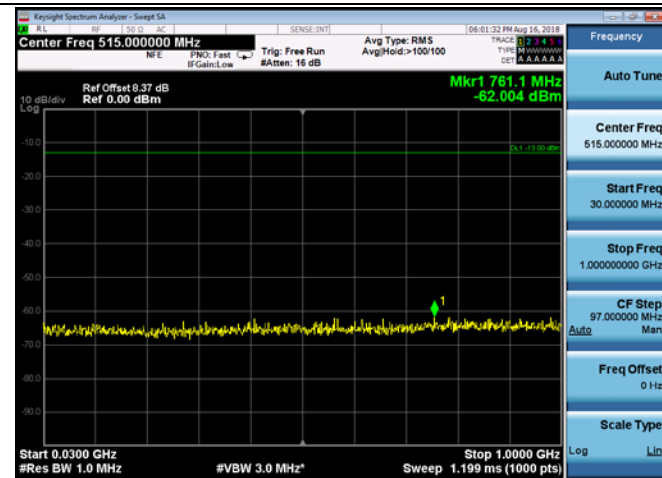
Frequency Range: 13.6GHz-20GHz



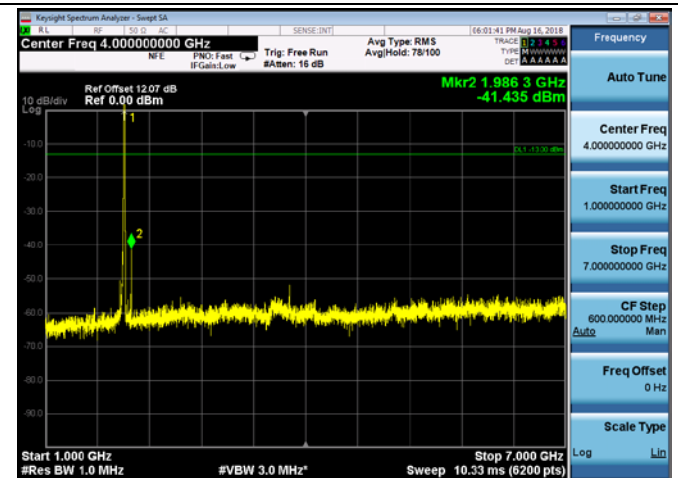


HSUPA 1900MHz CH9538 1907.6MHz

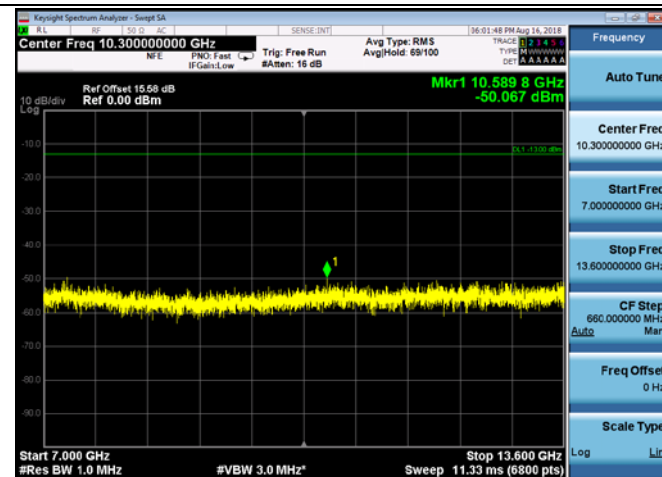
Frequency Range: 30MHz-1GHz



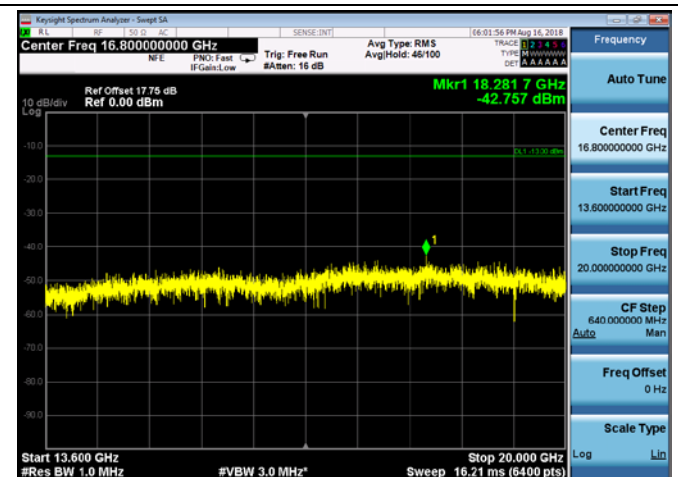
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



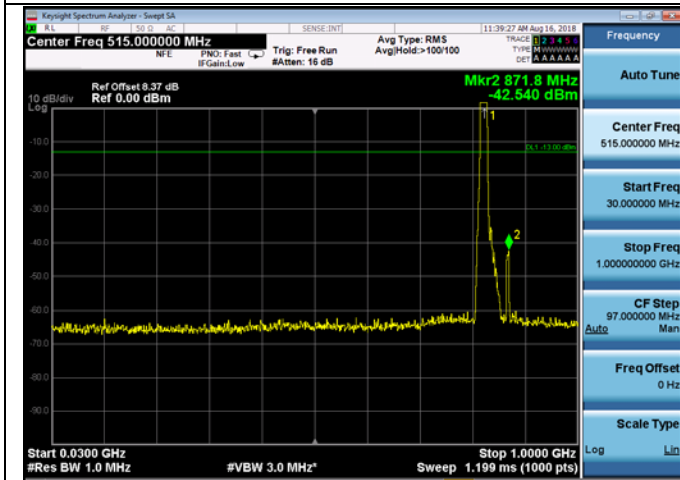
Frequency Range: 13.6GHz-20GHz



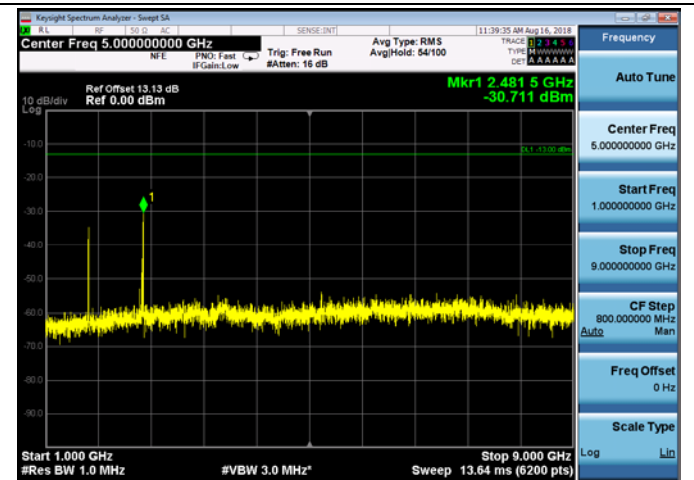


HSPA+ 850MHz CH4132 826.4MHz

Frequency Range: 30MHz-1GHz

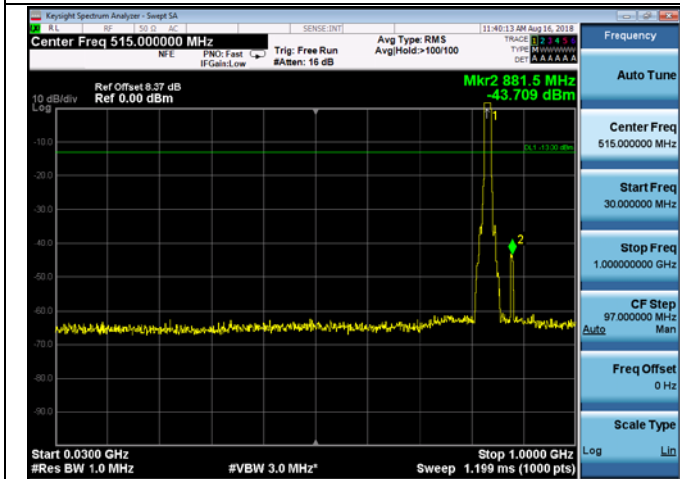


Frequency Range: 1GHz-9GHz

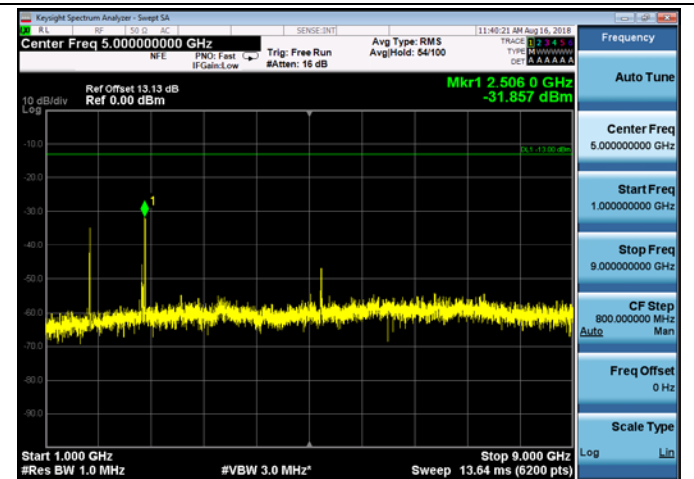


HSPA+ 850MHz CH4182 836.4MHz

Frequency Range: 30MHz-1GHz



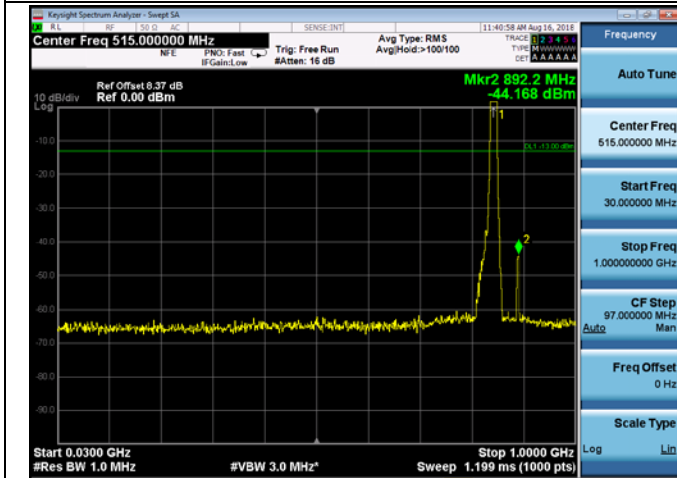
Frequency Range: 1GHz-9GHz



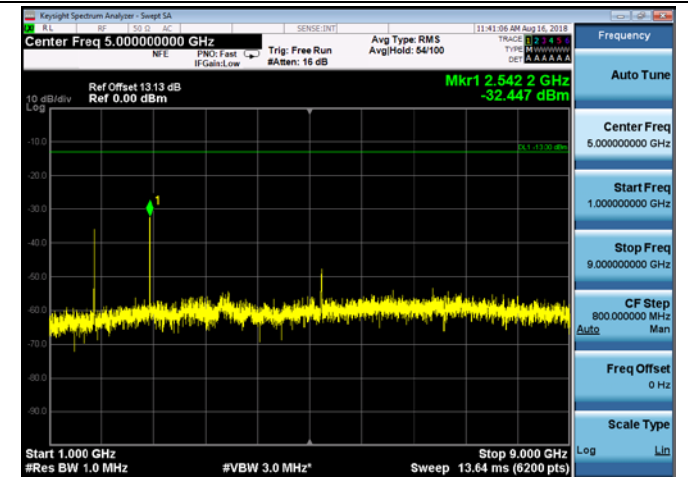


HSPA+ 850MHz CH4233 846.6MHz

Frequency Range: 30MHz-1GHz



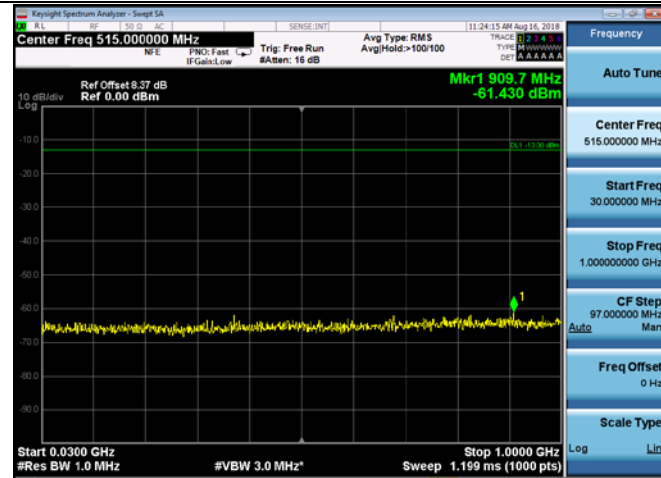
Frequency Range: 1GHz-9GHz



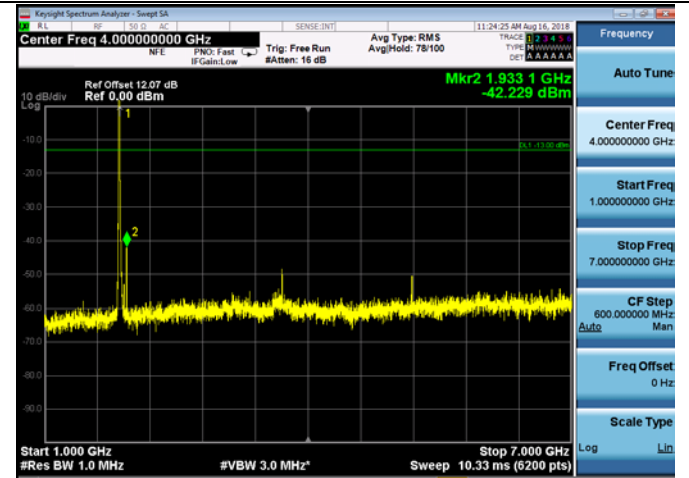


HSPA+ 1900MHz CH9262 1852.4MHz

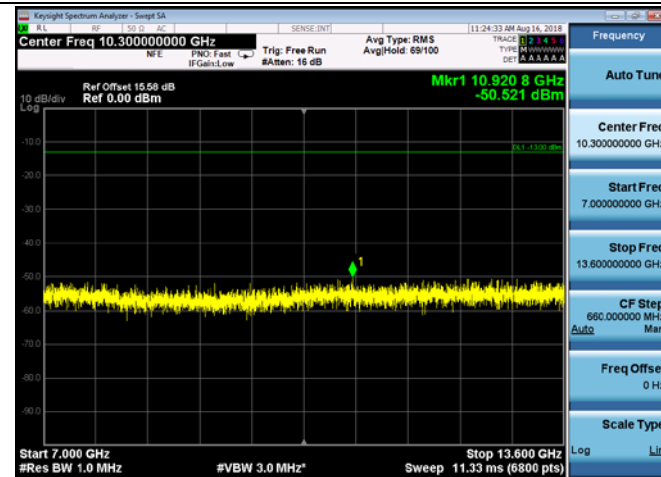
Frequency Range: 30MHz-1GHz



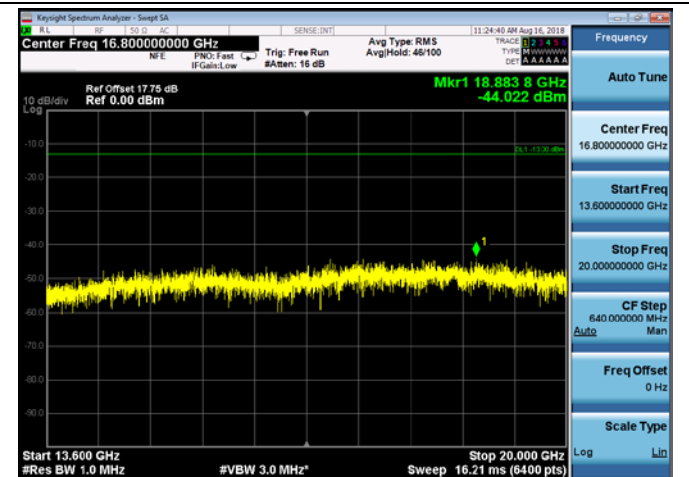
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



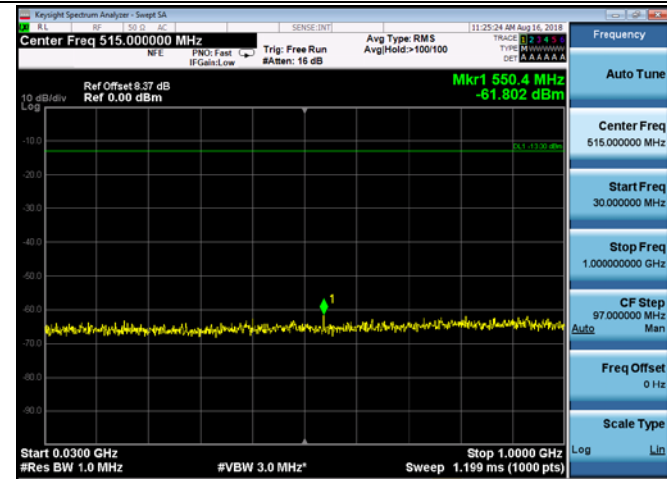
Frequency Range: 13.6GHz-20GHz



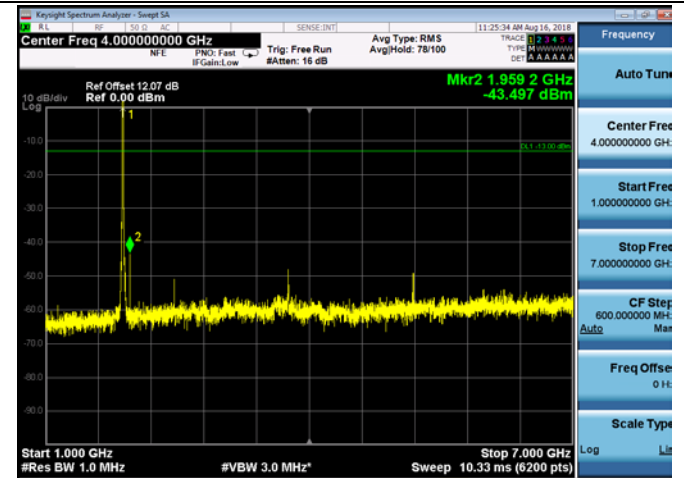


HSPA+ 1900MHz CH9400 1880.0MHz

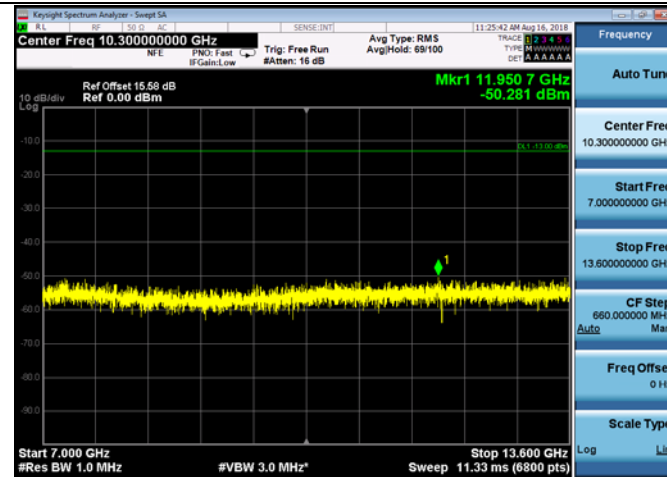
Frequency Range: 30MHz-1GHz



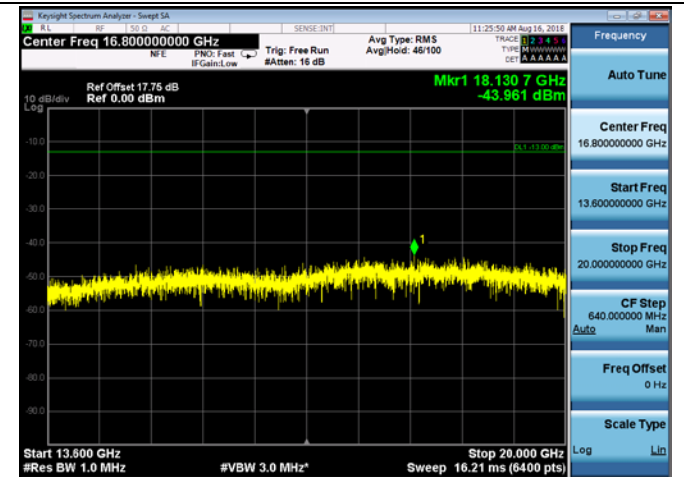
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



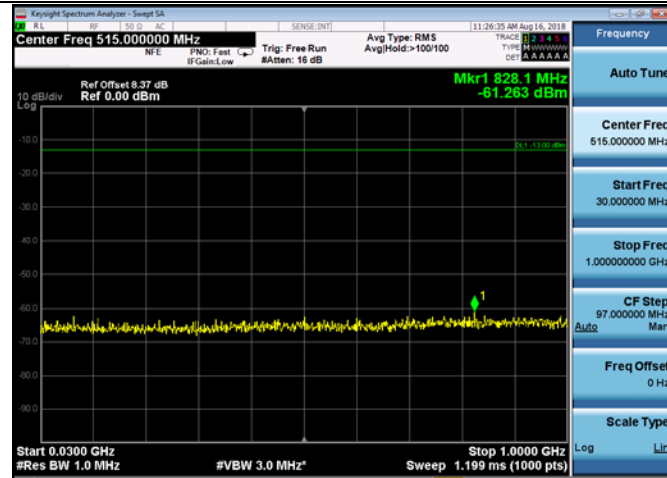
Frequency Range: 13.6GHz-20GHz



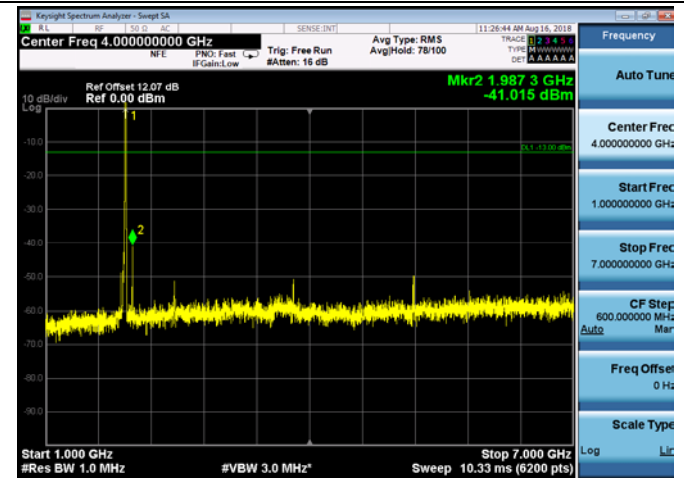


HSPA+ 1900MHz CH9538 1907.6MHz

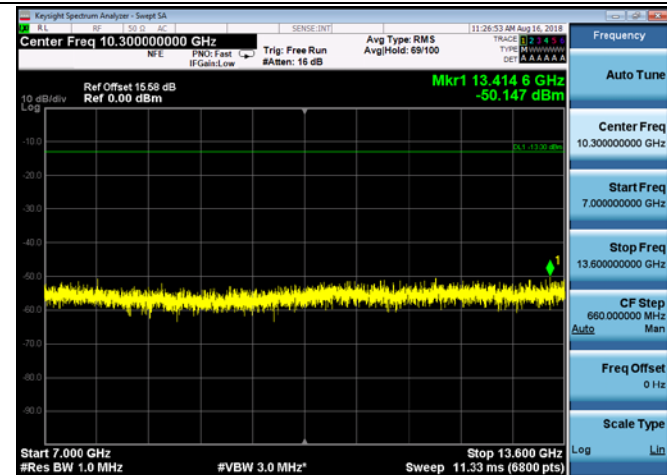
Frequency Range: 30MHz-1GHz



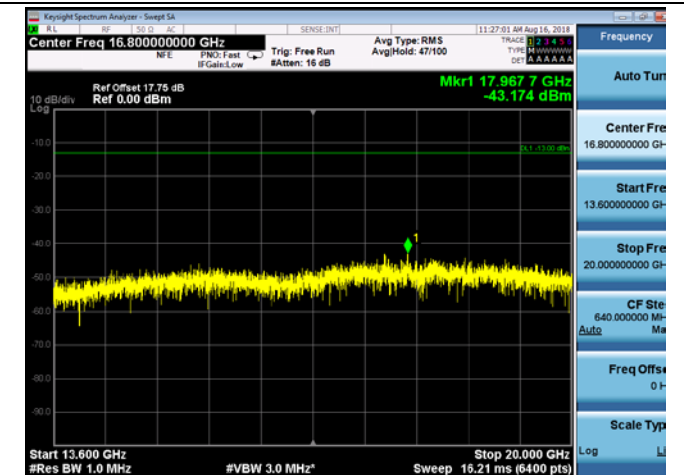
Frequency Range: 1GHz-7GHz



Frequency Range: 7GHz-13.6GHz



Frequency Range: 13.6GHz-20GHz



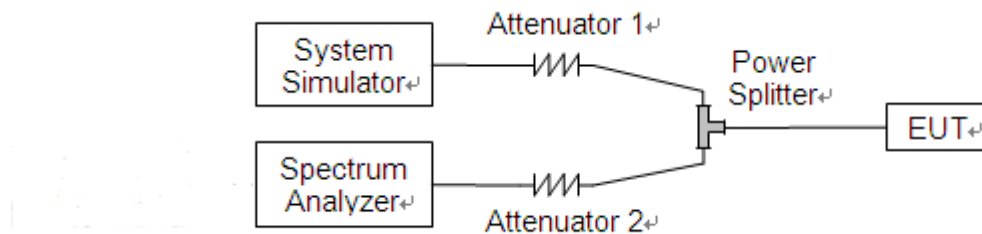
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(b), 24.238(b) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

2.6.2. Test Description

Test Setup:

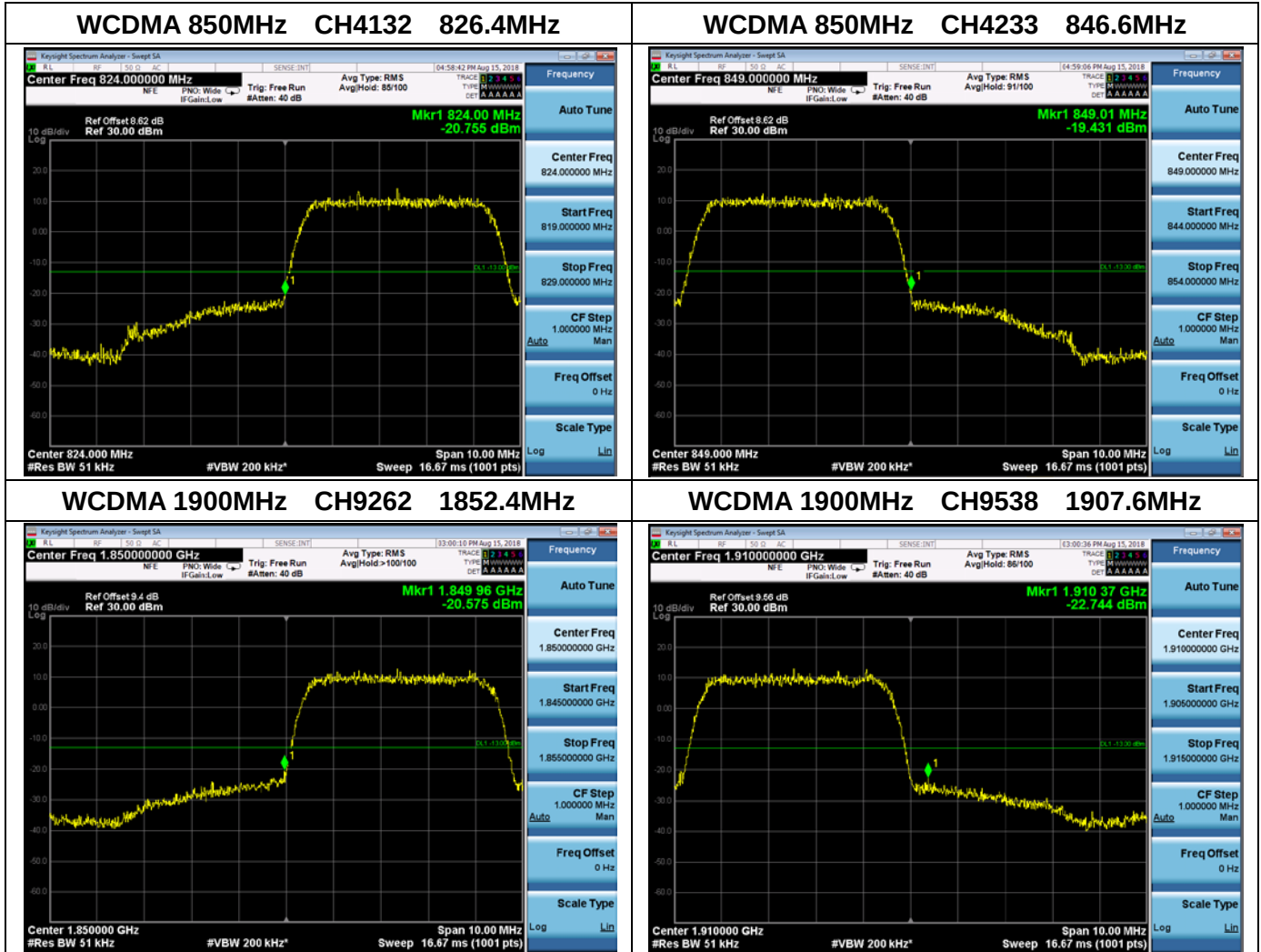


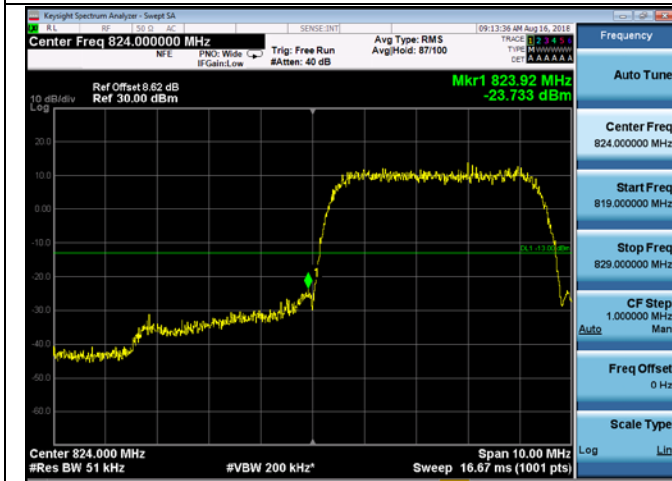
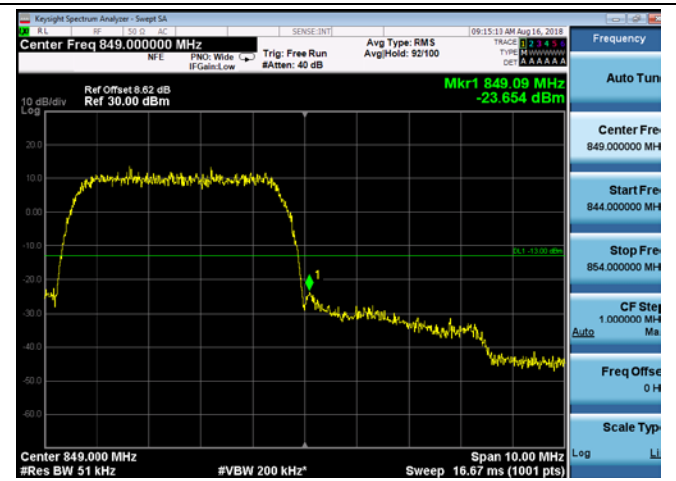
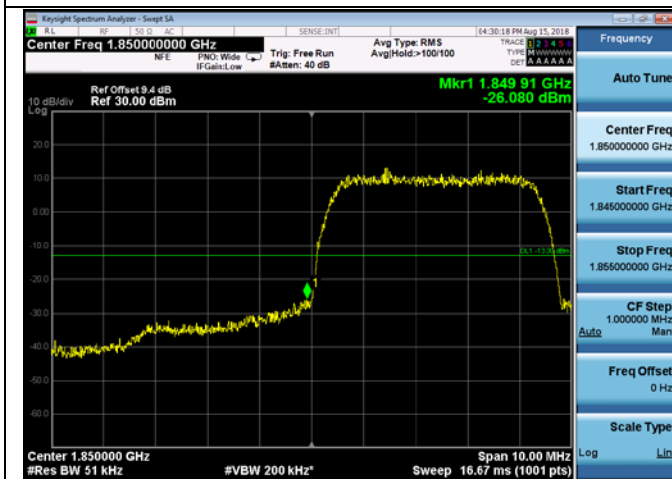
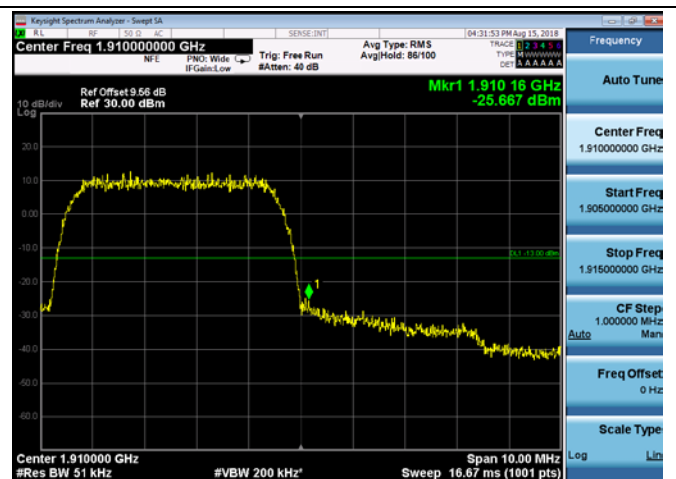
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

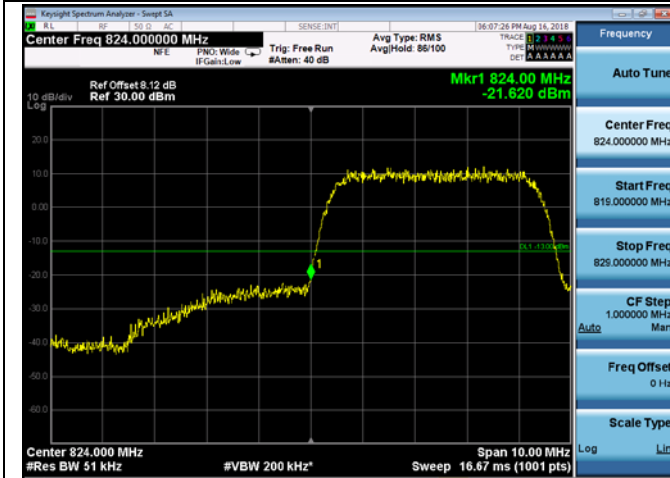


**HSDPA 850MHz CH4132 826.4MHz****HSDPA 850MHz CH4233 846.6MHz****HSDPA 1900MHz CH9262 1852.4MHz****HSDPA 1900MHz CH9538 1907.6MHz**

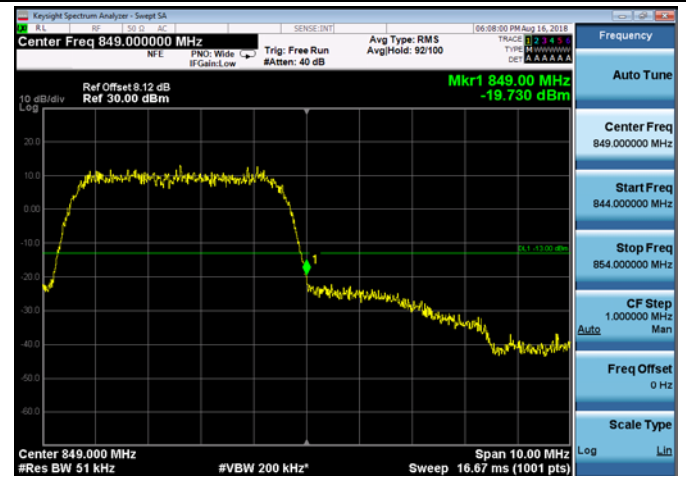


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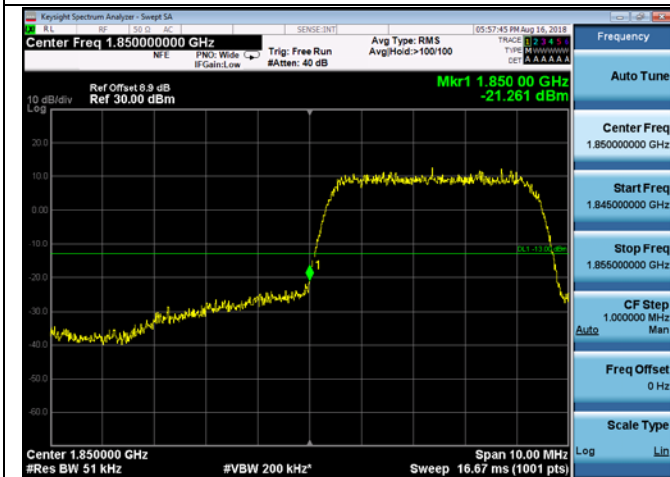
HSUPA 850MHz CH4132 826.4MHz



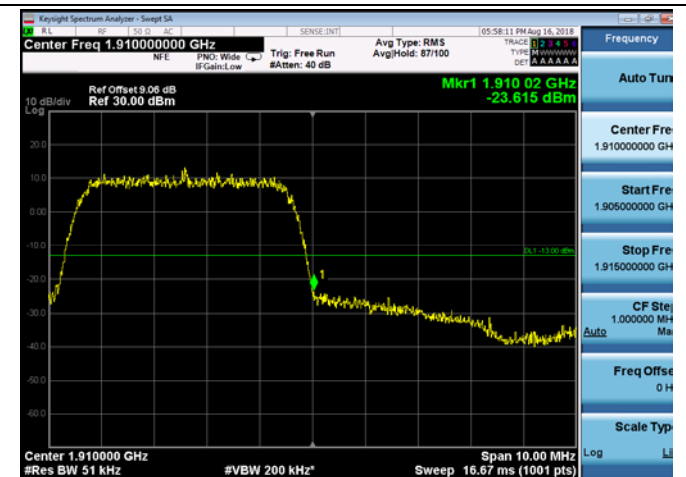
HSUPA 850MHz CH4233 846.6MHz



HSUPA 1900MHz CH9262 1852.4MHz

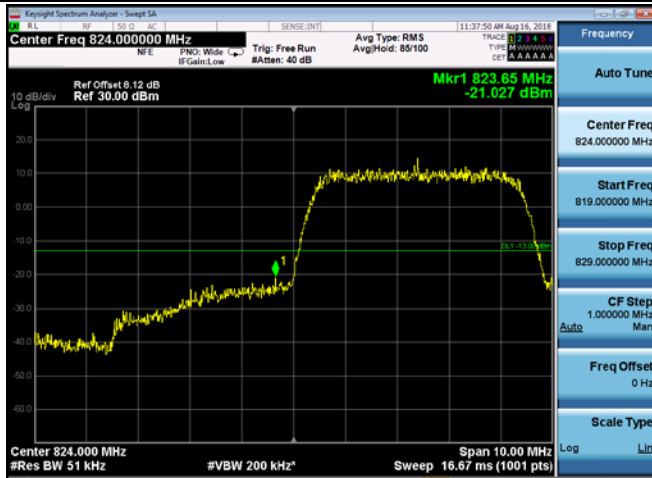


HSUPA 1900MHz CH9538 1907.6MHz

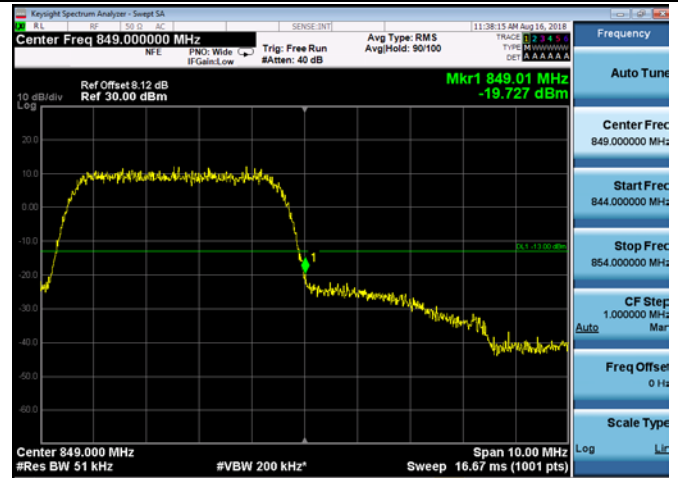




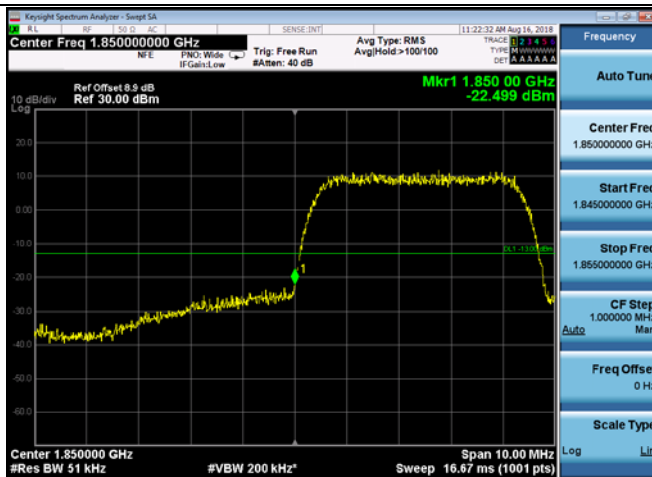
HSPA+ 850MHz CH4132 826.4MHz



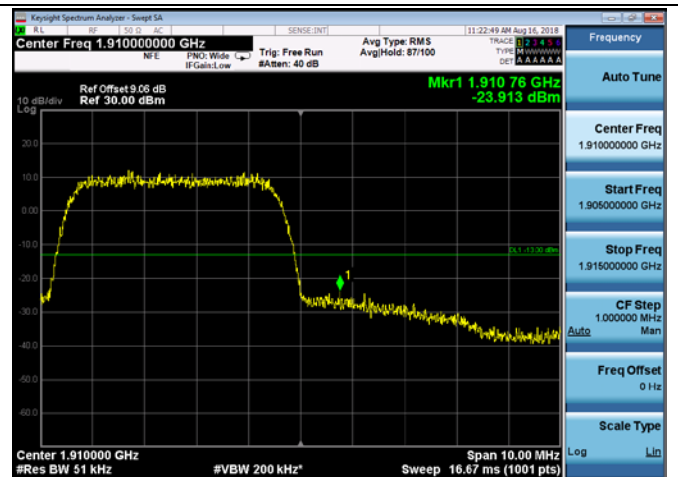
HSPA+ 850MHz CH4233 846.6MHz



HSPA+ 1900MHz CH9262 1852.4MHz



HSPA+ 1900MHz CH9538 1907.6MHz



2.7. Transmitter Radiated Power (EIRP/ERP)

2.7.1. Requirement

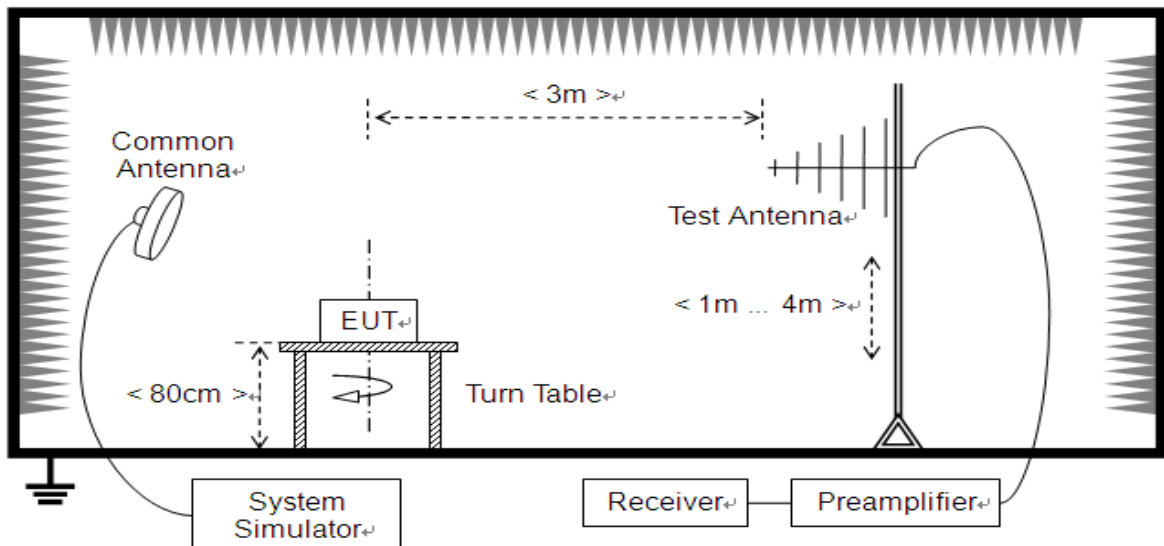
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

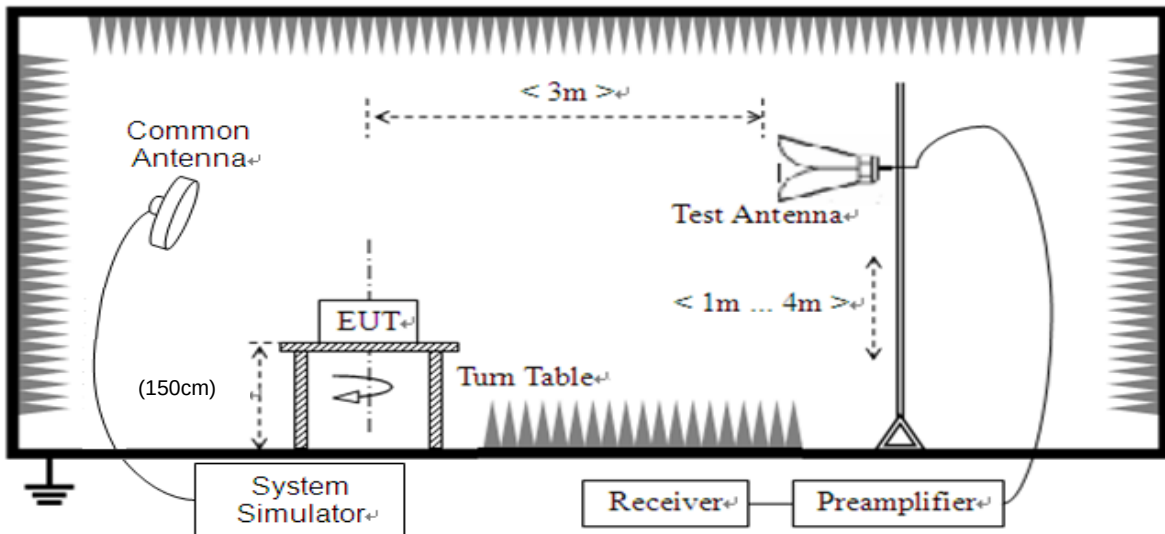
2.7.2. Test Description

Test Setup:

1) Below 1GHz



2) Above 1GHz



The EUT is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

- Step size (dB): 3dB

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.



2.7.3. Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .