

**LTE Band CA\_41C\_5MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2499.30	2511.00	-19.95	-28.70	10.70	19.45	33.00	V
2583.80	2595.50	-19.94	-28.60	10.70	19.36	33.00	V
2668.30	2680.00	-19.68	-28.50	10.70	19.52	33.00	V

**LTE Band CA\_41C\_10MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.30	2513.30	-19.96	-28.70	10.70	19.44	33.00	V
2585.90	2597.90	-19.93	-28.60	10.70	19.37	33.00	V
2670.50	2682.50	-19.77	-28.60	10.70	19.53	33.00	V

**LTE Band CA\_41C\_10MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2501.50	2515.90	-19.97	-28.70	10.70	19.43	33.00	V
2583.60	2598.00	-19.94	-28.60	10.70	19.36	33.00	V
2665.60	2680.00	-19.77	-28.60	10.70	19.53	33.00	V

**LTE Band CA\_41C\_15MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2515.50	-19.94	-28.70	10.70	19.46	33.00	H
2588.10	2600.10	-19.92	-28.60	10.70	19.38	33.00	H
2672.70	2684.70	-19.74	-28.60	10.70	19.56	33.00	H

**LTE Band CA\_41C\_15MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.50	2518.50	-19.94	-28.70	10.70	19.46	33.00	H
2585.50	2600.50	-19.92	-28.60	10.70	19.38	33.00	H
2667.50	2682.50	-19.74	-28.60	10.70	19.56	33.00	H

**LTE Band CA\_41C\_15MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2503.80	2520.90	-19.97	-28.70	10.70	19.43	33.00	H
2583.30	2600.40	-19.95	-28.60	10.70	19.35	33.00	H
2662.90	2680.00	-19.78	-28.60	10.70	19.52	33.00	H

**LTE Band CA\_41C\_20MHz+5MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2517.70	-20.01	-28.70	10.70	19.39	33.00	H
2590.50	2602.20	-19.99	-28.60	10.70	19.31	33.00	H



2675.00	2686.70	-19.79	-28.60	10.70	19.51	33.00	H
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**LTE Band CA\_41C\_20MHz+10MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2520.40	-19.99	-28.70	10.70	19.41	33.00	H
2588.10	2602.50	-19.97	-28.60	10.70	19.33	33.00	H
2670.10	2684.50	-19.79	-28.60	10.70	19.51	33.00	H

**LTE Band CA\_41C\_20MHz+15MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2523.10	-19.98	-28.70	10.70	19.42	33.00	H
2585.60	2602.70	-19.97	-28.60	10.70	19.33	33.00	H
2665.10	2682.20	-19.75	-28.60	10.70	19.55	33.00	H
2668.30	2680.00	-19.54	-28.50	10.70	19.66	33.00	V

**LTE Band CA\_41C\_20MHz+20MHz\_64QAM**

Frequency(MHz)	Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB)	G <sub>a</sub> Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2506.00	2525.80	-19.92	-28.70	10.70	19.48	33.00	H
2583.10	2602.90	-19.97	-28.60	10.70	19.33	33.00	H
2660.20	2680.00	-19.77	-28.60	10.70	19.53	33.00	H

Peak EIRP (dBm)=P<sub>Mea</sub>(-19.54dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>) (-28.50dB)+G<sub>a</sub>(10.70dB) =19.66dBm

**ANALYZER SETTINGS:**

RBW = VBW = 8MHz for occupied bandwidths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

Note: The maximum value of expanded measurement uncertainty for this test item is

U = 2.87dB(30MHz-3GHz)/3.35dB(3GHz-18GHz), k = 2

**Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.**

## **A.2 FIELD STRENGTH OF SPURIOUS RADIATION**

### **Reference**

FCC: CFR 2.1053, 22.917, 24.238, 27.53,90.691.

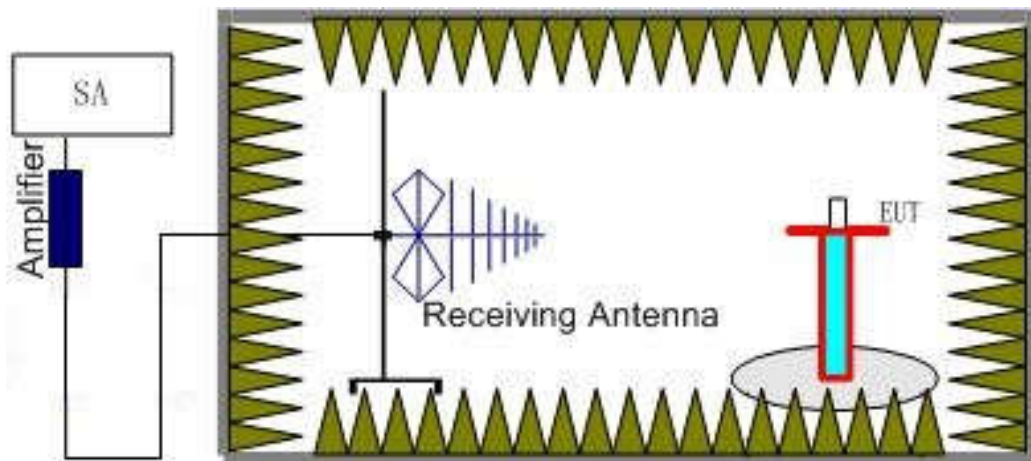
### **A.2.1 Measurement Method**

This measurement is carried out in fully-anechoic chamber FAC-3.

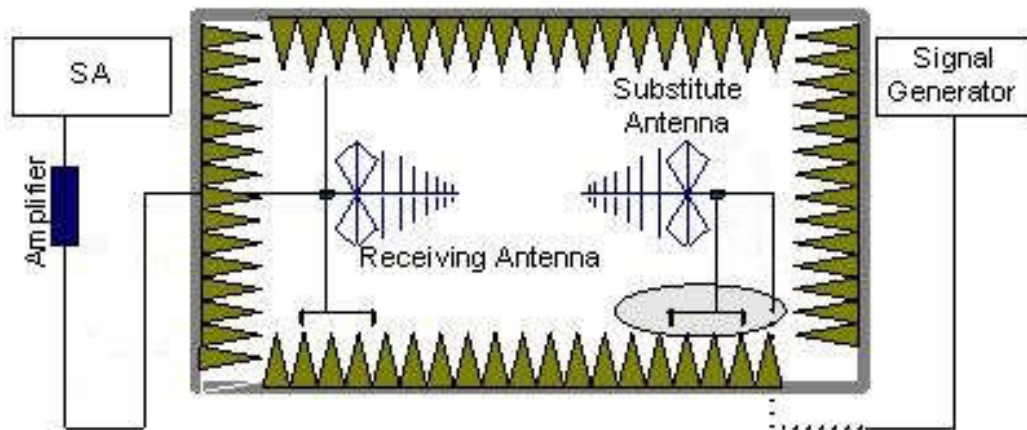
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.53(h) and 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the all LTE Bands

### **The procedure of radiated spurious emissions is as follows:**

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain(dBi) ( $G_a$ ) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15dB$ .

### A.2.2 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the test LTE Bands. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the test LTE Bands. into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

Only worst case result is given below.

**Antenna Up****LTE Band 2, 1.4MHz, QPSK, Channel 18607**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16997.50	-45.85	2.90	16.50	-32.25	-13.00	H
17128.75	-43.66	2.90	14.50	-32.06	-13.00	H
17292.50	-42.91	3.20	14.50	-31.61	-13.00	H
17510.00	-40.39	2.90	12.80	-30.49	-13.00	H
17566.88	-40.10	3.30	12.80	-30.60	-13.00	H
17825.00	-40.57	3.60	12.80	-31.37	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16943.12	-45.58	2.90	16.50	-31.98	-13.00	H
17199.38	-44.26	2.90	14.50	-32.66	-13.00	H
17344.38	-43.91	3.20	14.50	-32.61	-13.00	H
17478.12	-42.00	2.90	14.50	-30.40	-13.00	H
17621.25	-39.70	3.30	12.80	-30.20	-13.00	H
17779.38	-40.34	3.60	12.80	-31.14	-13.00	H

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16972.50	-45.44	2.90	16.50	-31.84	-13.00	H
17184.38	-44.13	2.90	14.50	-32.53	-13.00	H
17273.75	-43.87	3.20	14.50	-32.57	-13.00	H
17468.12	-41.96	2.90	14.50	-30.36	-13.00	H
17531.88	-39.89	2.90	12.80	-29.99	-13.00	H
17807.50	-40.45	3.60	12.80	-31.25	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 18607**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16936.88	-44.37	2.90	16.50	-30.77	-13.00	H
17197.50	-44.04	2.90	14.50	-32.44	-13.00	H
17360.62	-43.42	3.20	14.50	-32.12	-13.00	H
17503.12	-40.73	2.90	12.80	-30.83	-13.00	H
17619.38	-39.14	3.30	12.80	-29.64	-13.00	H
17753.75	-40.26	3.60	12.80	-31.06	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16933.12	-45.49	2.90	16.50	-31.89	-13.00	H
17170.62	-44.15	2.90	14.50	-32.55	-13.00	H
17303.12	-43.62	3.20	14.50	-32.32	-13.00	H
17510.00	-40.25	2.90	12.80	-30.35	-13.00	H
17561.25	-39.63	2.90	12.80	-29.73	-13.00	H
17826.25	-40.74	3.60	12.80	-31.54	-13.00	H

**LTE Band 2, 1.4MHz, 16QAM, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16931.25	-45.17	2.90	16.50	-31.57	-13.00	H
17120.62	-44.22	2.90	14.50	-32.62	-13.00	H
17220.62	-43.55	3.20	14.50	-32.25	-13.00	H
17419.38	-41.87	2.90	14.50	-30.27	-13.00	H
17533.12	-40.64	2.90	12.80	-30.74	-13.00	H
17822.50	-39.91	3.60	12.80	-30.71	-13.00	H

**LTE Band 2, 1.4MHz, 64QAM, Channel 18607**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16963.12	-45.17	2.90	16.50	-31.57	-13.00	H
17176.25	-44.02	2.90	14.50	-32.42	-13.00	H
17361.88	-43.51	3.20	14.50	-32.21	-13.00	H
17515.00	-40.17	2.90	12.80	-30.27	-13.00	H
17546.88	-40.54	2.90	12.80	-30.64	-13.00	H
17833.75	-40.27	3.60	12.80	-31.07	-13.00	H

**LTE Band 2, 1.4MHz, 64QAM, Channel 18900**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16985.62	-45.42	2.90	16.50	-31.82	-13.00	H
17181.25	-44.29	2.90	14.50	-32.69	-13.00	H
17293.75	-42.68	3.20	14.50	-31.38	-13.00	H
17521.25	-39.58	2.90	12.80	-29.68	-13.00	H
17533.12	-39.61	2.90	12.80	-29.71	-13.00	H
17831.88	-40.55	3.60	12.80	-31.35	-13.00	H

**LTE Band 2, 1.4MHz, 64QAM, Channel 19193**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16949.38	-45.53	2.90	16.50	-31.93	-13.00	H
17185.62	-44.00	2.90	14.50	-32.40	-13.00	H
17368.12	-43.54	3.20	14.50	-32.24	-13.00	H
17523.75	-40.54	2.90	12.80	-30.64	-13.00	H
17560.00	-40.44	2.90	12.80	-30.54	-13.00	H
17821.88	-40.49	3.60	12.80	-31.29	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16975.00	-44.90	2.90	16.50	-31.30	-13.00	H
17172.50	-44.45	2.90	14.50	-32.85	-13.00	H
17322.50	-43.41	3.20	14.50	-32.11	-13.00	H
17465.00	-41.79	2.90	14.50	-30.19	-13.00	H
17616.88	-40.07	3.30	12.80	-30.57	-13.00	H
17777.50	-41.01	3.60	12.80	-31.81	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16986.88	-45.46	2.90	16.50	-31.86	-13.00	H
17093.75	-44.33	2.90	14.50	-32.73	-13.00	H
17304.38	-43.19	3.20	14.50	-31.89	-13.00	H
17511.25	-40.24	2.90	12.80	-30.34	-13.00	H
17530.00	-40.74	2.90	12.80	-30.84	-13.00	H
17828.75	-39.20	3.60	12.80	-30.00	-13.00	H

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16965.62	-45.53	2.90	16.50	-31.93	-13.00	H
17168.12	-43.73	2.90	14.50	-32.13	-13.00	H
17299.38	-42.89	3.20	14.50	-31.59	-13.00	H
17524.38	-40.40	2.90	12.80	-30.50	-13.00	H
17617.50	-39.01	3.30	12.80	-29.51	-13.00	H
17823.12	-39.81	3.60	12.80	-30.61	-13.00	H



**LTE Band 4, 1.4MHz, 16QAM, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16965.00	-45.34	2.90	16.50	-31.74	-13.00	H
17182.50	-43.82	2.90	14.50	-32.22	-13.00	H
17345.00	-43.02	3.20	14.50	-31.72	-13.00	H
17521.88	-40.60	2.90	12.80	-30.70	-13.00	H
17526.88	-40.68	2.90	12.80	-30.78	-13.00	H
17830.62	-40.18	3.60	12.80	-30.98	-13.00	H

**LTE Band 4, 1.4MHz, 16QAM, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
17003.75	-43.42	2.90	14.50	-31.82	-13.00	H
17120.00	-44.30	2.90	14.50	-32.70	-13.00	H
17216.88	-43.55	3.20	14.50	-32.25	-13.00	H
17515.62	-40.88	2.90	12.80	-30.98	-13.00	H
17597.50	-40.16	3.30	12.80	-30.66	-13.00	H
17828.75	-40.73	3.60	12.80	-31.53	-13.00	H

**LTE Band 4, 1.4MHz, 16QAM, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16995.62	-45.44	2.90	16.50	-31.84	-13.00	H
17191.88	-43.61	2.90	14.50	-32.01	-13.00	H
17295.62	-43.45	3.20	14.50	-32.15	-13.00	H
17515.00	-40.62	2.90	12.80	-30.72	-13.00	H
17635.62	-40.18	3.30	12.80	-30.68	-13.00	H
17838.12	-40.23	3.60	12.80	-31.03	-13.00	H

**LTE Band 4, 1.4MHz, 64QAM, Channel 19957**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16939.38	-44.59	2.90	16.50	-30.99	-13.00	H
17160.00	-43.87	2.90	14.50	-32.27	-13.00	H
17281.88	-42.66	3.20	14.50	-31.36	-13.00	H
17520.62	-40.76	2.90	12.80	-30.86	-13.00	H
17529.38	-40.47	2.90	12.80	-30.57	-13.00	H
17832.50	-40.26	3.60	12.80	-31.06	-13.00	H

**LTE Band 4, 1.4MHz, 64QAM, Channel 20175**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16955.62	-45.69	2.90	16.50	-32.09	-13.00	H
17210.62	-44.55	2.90	14.50	-32.95	-13.00	H
17298.12	-43.80	3.20	14.50	-32.50	-13.00	H
17453.75	-41.66	2.90	14.50	-30.06	-13.00	H
17527.50	-40.50	2.90	12.80	-30.60	-13.00	H
17823.75	-40.39	3.60	12.80	-31.19	-13.00	H

**LTE Band 4, 1.4MHz, 64QAM, Channel 20393**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16995.00	-45.44	2.90	16.50	-31.84	-13.00	H
17157.50	-43.78	2.90	14.50	-32.18	-13.00	H
17236.88	-43.45	3.20	14.50	-32.15	-13.00	H
17500.62	-40.92	2.90	12.80	-31.02	-13.00	H
17566.25	-40.46	3.30	12.80	-30.96	-13.00	H
17786.88	-40.01	3.60	12.80	-30.81	-13.00	H

**LTE Band 5, 1.4MHz, QPSK, Channel 20407**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8419.88	-52.63	1.80	11.30	-43.13	-13.00	H
9100.12	-51.98	2.20	11.60	-42.58	-13.00	H
9295.25	-50.56	2.00	11.60	-40.96	-13.00	H
9471.50	-51.23	2.10	11.60	-41.73	-13.00	V
9741.00	-51.10	2.20	11.20	-42.10	-13.00	H
9917.75	-52.21	2.20	11.20	-43.21	-13.00	H

**LTE Band 5, 1.4MHz, QPSK, Channel 20525**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8409.00	-51.93	1.80	11.30	-42.43	-13.00	H
9098.00	-51.24	2.20	11.60	-41.84	-13.00	H
9299.75	-50.54	2.00	11.60	-40.94	-13.00	H
9473.75	-50.75	2.10	11.60	-41.25	-13.00	V
9740.12	-50.42	2.20	11.20	-41.42	-13.00	H
9789.50	-51.31	2.30	11.20	-42.41	-13.00	H

**LTE Band 5, 1.4MHz, QPSK, Channel 20643**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8469.00	-52.07	1.80	11.30	-42.57	-13.00	H
9094.25	-51.96	2.20	11.60	-42.56	-13.00	H
9304.88	-50.83	2.00	11.60	-41.23	-13.00	H
9473.00	-51.56	2.10	11.60	-42.06	-13.00	V
9734.50	-51.04	2.20	11.20	-42.04	-13.00	H
9787.50	-51.16	2.30	11.20	-42.26	-13.00	H

**LTE Band 5, 1.4MHz, 16QAM, Channel 20407**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8469.38	-52.49	1.80	11.30	-42.99	-13.00	H
9109.50	-52.18	2.10	11.60	-42.68	-13.00	H
9296.75	-50.38	2.00	11.60	-40.78	-13.00	H
9474.25	-51.13	2.10	11.60	-41.63	-13.00	V
9735.75	-50.79	2.20	11.20	-41.79	-13.00	H
9942.88	-51.30	2.20	11.20	-42.30	-13.00	H

**LTE Band 5, 1.4MHz, 16QAM, Channel 20525**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7206.00	-52.85	1.80	12.00	-42.65	-13.00	H
9108.25	-52.10	2.10	11.60	-42.60	-13.00	H
9301.62	-50.46	2.00	11.60	-40.86	-13.00	H
9474.62	-50.72	2.10	11.60	-41.22	-13.00	V
9731.75	-50.67	2.20	11.20	-41.67	-13.00	H
9800.25	-51.51	2.30	11.20	-42.61	-13.00	H

**LTE Band 5, 1.4MHz, 16QAM, Channel 20643**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8689.50	-53.06	2.00	12.00	-43.06	-13.00	H
9099.62	-51.38	2.20	11.60	-41.98	-13.00	H
9298.75	-50.79	2.00	11.60	-41.19	-13.00	H
9473.25	-50.58	2.10	11.60	-41.08	-13.00	V
9725.12	-51.38	2.20	11.20	-42.38	-13.00	H
9797.88	-51.46	2.30	11.20	-42.56	-13.00	H

**LTE Band 5, 1.4MHz, 64QAM, Channel 20407**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8409.38	-52.52	1.80	11.30	-43.02	-13.00	H
9101.12	-51.38	2.20	11.60	-41.98	-13.00	H
9301.12	-50.25	2.00	11.60	-40.65	-13.00	H
9478.38	-51.79	2.10	11.60	-42.29	-13.00	V
9747.88	-51.02	2.20	11.20	-42.02	-13.00	H
9843.38	-51.53	2.30	11.20	-42.63	-13.00	H

**LTE Band 5, 1.4MHz, 64QAM, Channel 20525**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8422.50	-51.71	1.80	11.30	-42.21	-13.00	H
9103.88	-51.55	2.20	11.60	-42.15	-13.00	H
9227.25	-50.74	2.10	11.60	-41.24	-13.00	H
9474.75	-50.72	2.10	11.60	-41.22	-13.00	V
9732.88	-51.08	2.20	11.20	-42.08	-13.00	H
9806.00	-51.57	2.30	11.20	-42.67	-13.00	H

**LTE Band 5, 1.4MHz, 64QAM, Channel 20643**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7206.00	-52.83	1.80	12.00	-42.63	-13.00	V
9097.62	-51.84	2.20	11.60	-42.44	-13.00	H
9300.25	-50.82	2.00	11.60	-41.22	-13.00	H
9475.12	-51.05	2.10	11.60	-41.55	-13.00	V
9751.38	-51.66	2.20	11.20	-42.66	-13.00	H
9789.12	-51.14	2.30	11.20	-42.24	-13.00	H

**LTE Band 7, 5MHz, QPSK, Channel 20775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16940.62	-48.14	2.90	16.50	-34.54	-25.00	H
17205.00	-47.10	2.90	14.50	-35.50	-25.00	H
17217.50	-45.58	3.20	14.50	-34.28	-25.00	H
17433.12	-45.59	2.90	14.50	-33.99	-25.00	H
17608.75	-44.29	3.30	12.80	-34.79	-25.00	H
17835.62	-43.35	3.60	12.80	-34.15	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21100**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16953.12	-47.78	2.90	16.50	-34.18	-25.00	H
17189.38	-46.14	2.90	14.50	-34.54	-25.00	H
17266.88	-45.91	3.20	14.50	-34.61	-25.00	H
17510.62	-44.67	2.90	12.80	-34.77	-25.00	H
17573.75	-43.95	3.30	12.80	-34.45	-25.00	H
17788.75	-43.24	3.60	12.80	-34.04	-25.00	H

**LTE Band 7, 5MHz, QPSK, Channel 21425**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16934.38	-47.84	2.90	16.50	-34.24	-25.00	H
17203.12	-44.81	2.90	14.50	-33.21	-25.00	H
17272.50	-45.34	3.20	14.50	-34.04	-25.00	H
17451.88	-45.78	2.90	14.50	-34.18	-25.00	H
17568.12	-43.65	3.30	12.80	-34.15	-25.00	H
17801.25	-43.30	3.60	12.80	-34.10	-25.00	H

**LTE Band 7, 5MHz, 16QAM, Channel 20775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16974.38	-48.38	2.90	16.50	-34.78	-25.00	H
17176.88	-45.98	2.90	14.50	-34.38	-25.00	H
17289.38	-45.77	3.20	14.50	-34.47	-25.00	H
17456.25	-45.94	2.90	14.50	-34.34	-25.00	H
17623.75	-44.18	3.30	12.80	-34.68	-25.00	H
17783.75	-43.51	3.60	12.80	-34.31	-25.00	H

**LTE Band 7, 5MHz, 16QAM, Channel 21100**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16945.00	-48.04	2.90	16.50	-34.44	-25.00	H
17138.12	-46.07	2.90	14.50	-34.47	-25.00	H
17346.88	-45.42	3.20	14.50	-34.12	-25.00	H
17519.38	-44.13	2.90	12.80	-34.23	-25.00	H
17564.38	-43.67	3.30	12.80	-34.17	-25.00	H
17824.38	-43.88	3.60	12.80	-34.68	-25.00	H

**LTE Band 7, 5MHz, 16QAM, Channel 21425**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16926.88	-48.96	2.90	16.50	-35.36	-25.00	H
17118.75	-45.60	2.90	14.50	-34.00	-25.00	H
17259.38	-46.07	3.20	14.50	-34.77	-25.00	H
17498.75	-45.48	2.90	14.50	-33.88	-25.00	H
17613.12	-43.97	3.30	12.80	-34.47	-25.00	H
17816.88	-43.45	3.60	12.80	-34.25	-25.00	H

**LTE Band 7, 5MHz, 64QAM, Channel 20775**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16928.12	-48.54	2.90	16.50	-34.94	-25.00	H
17180.62	-45.86	2.90	14.50	-34.26	-25.00	H
17349.38	-45.87	3.20	14.50	-34.57	-25.00	H
17461.88	-45.83	2.90	14.50	-34.23	-25.00	H
17606.88	-43.50	3.30	12.80	-34.00	-25.00	H
17777.50	-43.10	3.60	12.80	-33.90	-25.00	H

**LTE Band 7, 5MHz, 64QAM, Channel 21100**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16960.62	-47.84	2.90	16.50	-34.24	-25.00	H
17184.38	-46.54	2.90	14.50	-34.94	-25.00	H
17253.12	-46.03	3.20	14.50	-34.73	-25.00	H
17453.75	-45.90	2.90	14.50	-34.30	-25.00	H
17593.12	-44.12	3.30	12.80	-34.62	-25.00	H
17801.88	-43.81	3.60	12.80	-34.61	-25.00	H

**LTE Band 7, 5MHz, 64QAM, Channel 21425**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
16999.38	-48.44	2.90	16.50	-34.84	-25.00	H
17097.50	-45.81	2.90	14.50	-34.21	-25.00	H
17223.12	-45.73	3.20	14.50	-34.43	-25.00	H
17460.62	-45.92	2.90	14.50	-34.32	-25.00	H
17611.25	-44.22	3.30	12.80	-34.72	-25.00	H
17780.62	-43.99	3.60	12.80	-34.79	-25.00	H



**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7327.50	-52.80	1.70	12.00	-42.50	-13.00	H
9100.62	-51.57	2.20	11.60	-42.17	-13.00	H
9221.75	-50.94	2.10	11.60	-41.44	-13.00	H
9475.25	-51.13	2.10	11.60	-41.63	-13.00	V
9760.25	-51.34	2.20	11.20	-42.34	-13.00	H
9784.75	-51.14	2.30	11.20	-42.24	-13.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7204.50	-53.35	1.80	12.00	-43.15	-13.00	V
9099.25	-52.37	2.20	11.60	-42.97	-13.00	H
9302.25	-51.06	2.00	11.60	-41.46	-13.00	H
9475.00	-51.64	2.10	11.60	-42.14	-13.00	V
9755.62	-51.23	2.20	11.20	-42.23	-13.00	H
9789.75	-51.23	2.30	11.20	-42.33	-13.00	H

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7195.12	-53.57	1.80	12.00	-43.37	-13.00	H
9100.00	-52.44	2.20	11.60	-43.04	-13.00	H
9305.50	-50.52	2.00	11.60	-40.92	-13.00	H
9472.00	-51.70	2.10	11.60	-42.20	-13.00	V
9727.50	-51.22	2.20	11.20	-42.22	-13.00	H
9807.50	-51.99	2.30	11.20	-43.09	-13.00	H

**LTE Band 12, 1.4MHz, 16QAM, Channel 23017**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7224.00	-52.56	1.80	12.00	-42.36	-13.00	V
9099.00	-51.65	2.20	11.60	-42.25	-13.00	H
9222.88	-50.19	2.10	11.60	-40.69	-13.00	H
9474.50	-51.19	2.10	11.60	-41.69	-13.00	V
9740.00	-50.83	2.20	11.20	-41.83	-13.00	H
9874.38	-51.61	2.20	11.20	-42.61	-13.00	V

**LTE Band 12, 1.4MHz, 16QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8433.00	-52.37	1.80	11.30	-42.87	-13.00	H
8760.00	-52.64	1.90	12.00	-42.54	-13.00	H
9096.50	-51.25	2.20	11.60	-41.85	-13.00	H
9224.38	-51.31	2.10	11.60	-41.81	-13.00	H
9476.25	-50.41	2.10	11.60	-40.91	-13.00	V
9738.38	-50.81	2.20	11.20	-41.81	-13.00	H

**LTE Band 12, 1.4MHz, 16QAM, Channel 23173**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7183.88	-53.22	1.80	12.00	-43.02	-13.00	V
9101.38	-51.88	2.20	11.60	-42.48	-13.00	H
9301.00	-50.69	2.00	11.60	-41.09	-13.00	H
9478.50	-51.50	2.10	11.60	-42.00	-13.00	V
9725.25	-51.00	2.20	11.20	-42.00	-13.00	H
9800.50	-51.53	2.30	11.20	-42.63	-13.00	H

**LTE Band 12, 1.4MHz, 64QAM, Channel 23017**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8585.25	-53.08	2.00	12.00	-43.08	-13.00	H
9107.88	-51.36	2.10	11.60	-41.86	-13.00	H
9223.38	-50.67	2.10	11.60	-41.17	-13.00	H
9476.62	-51.20	2.10	11.60	-41.70	-13.00	V
9737.12	-51.59	2.20	11.20	-42.59	-13.00	H
9791.00	-51.88	2.30	11.20	-42.98	-13.00	H

**LTE Band 12, 1.4MHz, 64QAM, Channel 23095**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7114.88	-53.09	1.90	12.00	-42.99	-13.00	V
9098.88	-51.82	2.20	11.60	-42.42	-13.00	H
9219.75	-50.66	2.10	11.60	-41.16	-13.00	H
9470.25	-51.22	2.10	11.60	-41.72	-13.00	V
9724.62	-51.56	2.20	11.20	-42.56	-13.00	H
9778.75	-51.50	2.30	11.20	-42.60	-13.00	H

**LTE Band 12, 1.4MHz, 64QAM, Channel 23173**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7095.38	-53.11	1.80	12.00	-42.91	-13.00	H
9097.25	-51.91	2.20	11.60	-42.51	-13.00	H
9293.38	-51.31	2.00	11.60	-41.71	-13.00	H
9475.38	-50.56	2.10	11.60	-41.06	-13.00	V
9738.88	-51.11	2.20	11.20	-42.11	-13.00	H
9808.62	-51.36	2.30	11.20	-42.46	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23205**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1567.50	-59.53	0.70	8.10	-52.13	-40.00	V
9100.00	-51.48	2.20	11.60	-42.08	-13.00	H
9223.38	-50.95	2.10	11.60	-41.45	-13.00	H
9471.88	-51.13	2.10	11.60	-41.63	-13.00	V
9740.25	-51.03	2.20	11.20	-42.03	-13.00	H
9797.12	-51.86	2.30	11.20	-42.96	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23230**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1562.00	-59.85	0.70	8.10	-52.45	-40.00	V
9104.38	-51.15	2.20	11.60	-41.75	-13.00	H
9304.38	-51.02	2.00	11.60	-41.42	-13.00	H
9475.62	-50.97	2.10	11.60	-41.47	-13.00	V
9738.88	-51.35	2.20	11.20	-42.35	-13.00	H
9797.50	-51.63	2.30	11.20	-42.73	-13.00	H

**LTE Band 13, 5MHz, QPSK, Channel 23255**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1566.00	-59.51	0.70	8.10	-52.11	-40.00	V
9101.75	-51.60	2.20	11.60	-42.20	-13.00	H
9299.25	-50.73	2.00	11.60	-41.13	-13.00	H
9473.62	-50.25	2.10	11.60	-40.75	-13.00	V
9724.50	-50.34	2.20	11.20	-41.34	-13.00	H
9797.00	-50.92	2.30	11.20	-42.02	-13.00	H

**LTE Band 13, 5MHz, 16QAM, Channel 23205**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1570.50	-59.26	0.70	8.10	-51.86	-40.00	V
9096.50	-52.18	2.20	11.60	-42.78	-13.00	H
9300.75	-50.76	2.00	11.60	-41.16	-13.00	H
9475.25	-51.73	2.10	11.60	-42.23	-13.00	V
9736.25	-51.51	2.20	11.20	-42.51	-13.00	H
9772.62	-51.65	2.30	11.20	-42.75	-13.00	H

**LTE Band 13, 5MHz, 16QAM, Channel 23230**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1565.00	-58.15	0.70	8.10	-50.75	-40.00	V
9104.25	-51.09	2.20	11.60	-41.69	-13.00	H
9227.75	-50.93	2.10	11.60	-41.43	-13.00	H
9480.50	-51.39	2.10	11.60	-41.89	-13.00	V
9718.88	-51.87	2.20	11.20	-42.87	-13.00	H
9783.12	-51.01	2.30	11.20	-42.11	-13.00	H

**LTE Band 13, 5MHz, 16QAM, Channel 23255**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1563.50	-59.66	0.70	8.10	-52.26	-40.00	H
9117.25	-52.33	2.10	11.60	-42.83	-13.00	V
9292.12	-51.49	2.00	11.60	-41.89	-13.00	H
9475.12	-51.50	2.10	11.60	-42.00	-13.00	V
9735.12	-50.32	2.20	11.20	-41.32	-13.00	H
9788.25	-51.56	2.30	11.20	-42.66	-13.00	H

**LTE Band 13, 5MHz, 64QAM, Channel 23205**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1565.50	-57.38	0.70	8.10	-49.98	-40.00	V
8359.12	-52.15	1.80	11.30	-42.65	-13.00	H
9300.25	-50.64	2.00	11.60	-41.04	-13.00	H
9478.00	-50.83	2.10	11.60	-41.33	-13.00	V
9723.00	-51.61	2.20	11.20	-42.61	-13.00	H
9798.00	-51.36	2.30	11.20	-42.46	-13.00	H

**LTE Band 13, 5MHz, 64QAM, Channel 23230**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1565.50	-59.95	0.70	8.10	-52.55	-40.00	V
9103.25	-51.83	2.20	11.60	-42.43	-13.00	H
9300.00	-51.14	2.00	11.60	-41.54	-13.00	H
9477.88	-51.27	2.10	11.60	-41.77	-13.00	V
9735.25	-51.26	2.20	11.20	-42.26	-13.00	H
9780.12	-51.53	2.30	11.20	-42.63	-13.00	H

**LTE Band 13, 5MHz, 64QAM, Channel 23255**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
1572.00	-58.57	0.70	8.10	-51.17	-40.00	V
9094.25	-51.32	2.20	11.60	-41.92	-13.00	H
9302.75	-50.91	2.00	11.60	-41.31	-13.00	H
9473.50	-50.38	2.10	11.60	-40.88	-13.00	V
9731.62	-51.88	2.20	11.20	-42.88	-13.00	H
9780.62	-51.50	2.30	11.20	-42.60	-13.00	V

**LTE Band 17, 1.4MHz, QPSK, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8481.38	-52.60	1.80	11.30	-43.10	-13.00	H
9096.62	-52.21	2.20	11.60	-42.81	-13.00	H
9295.62	-49.95	2.00	11.60	-40.35	-13.00	H
9473.12	-51.60	2.10	11.60	-42.10	-13.00	V
9734.00	-50.88	2.20	11.20	-41.88	-13.00	H
9783.12	-51.62	2.30	11.20	-42.72	-13.00	H

**LTE Band 17, 1.4MHz, QPSK, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7189.50	-53.40	1.80	12.00	-43.20	-13.00	H
9100.50	-51.94	2.20	11.60	-42.54	-13.00	H
9305.88	-50.87	2.00	11.60	-41.27	-13.00	H
9468.88	-51.27	2.10	11.60	-41.77	-13.00	V
9745.50	-50.77	2.20	11.20	-41.77	-13.00	H
9788.12	-51.36	2.30	11.20	-42.46	-13.00	H

**LTE Band 17, 1.4MHz, QPSK, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8437.12	-52.12	1.80	11.30	-42.62	-13.00	H
9087.88	-52.04	2.20	11.60	-42.64	-13.00	H
9301.25	-50.04	2.00	11.60	-40.44	-13.00	H
9473.75	-50.87	2.10	11.60	-41.37	-13.00	V
9735.12	-51.00	2.20	11.20	-42.00	-13.00	H
9801.25	-51.35	2.30	11.20	-42.45	-13.00	H

**LTE Band 17, 1.4MHz, 16QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8425.88	-52.43	1.80	11.30	-42.93	-13.00	H
9099.75	-51.76	2.20	11.60	-42.36	-13.00	H
9300.00	-50.89	2.00	11.60	-41.29	-13.00	H
9477.00	-51.26	2.10	11.60	-41.76	-13.00	V
9737.25	-49.74	2.20	11.20	-40.74	-13.00	H
9786.38	-51.48	2.30	11.20	-42.58	-13.00	H

**LTE Band 17, 1.4MHz, 16QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8482.50	-52.74	1.80	11.30	-43.24	-13.00	H
9101.88	-51.98	2.20	11.60	-42.58	-13.00	H
9294.88	-50.73	2.00	11.60	-41.13	-13.00	H
9472.75	-51.17	2.10	11.60	-41.67	-13.00	V
9745.25	-50.71	2.20	11.20	-41.71	-13.00	H
9782.12	-51.71	2.30	11.20	-42.81	-13.00	H

**LTE Band 17, 1.4MHz, 16QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7322.62	-52.88	1.70	12.00	-42.58	-13.00	H
9101.12	-52.12	2.20	11.60	-42.72	-13.00	H
9296.88	-51.14	2.00	11.60	-41.54	-13.00	H
9474.88	-51.05	2.10	11.60	-41.55	-13.00	V
9752.38	-50.97	2.20	11.20	-41.97	-13.00	H
9794.62	-51.33	2.30	11.20	-42.43	-13.00	H



**LTE Band 17, 1.4MHz, 64QAM, Channel 23755**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8370.00	-52.41	1.80	11.30	-42.91	-13.00	H
9100.62	-51.56	2.20	11.60	-42.16	-13.00	H
9297.00	-51.21	2.00	11.60	-41.61	-13.00	H
9472.75	-51.26	2.10	11.60	-41.76	-13.00	V
9747.25	-51.66	2.20	11.20	-42.66	-13.00	H
9800.88	-51.91	2.30	11.20	-43.01	-13.00	H

**LTE Band 17, 1.4MHz, 64QAM, Channel 23790**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8453.62	-52.44	1.80	11.30	-42.94	-13.00	H
9104.75	-52.08	2.20	11.60	-42.68	-13.00	H
9300.62	-50.72	2.00	11.60	-41.12	-13.00	H
9475.00	-50.59	2.10	11.60	-41.09	-13.00	V
9747.12	-51.11	2.20	11.20	-42.11	-13.00	H
9802.38	-51.80	2.30	11.20	-42.90	-13.00	H

**LTE Band 17, 1.4MHz, 64QAM, Channel 23825**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8428.88	-52.49	1.80	11.30	-42.99	-13.00	H
9100.00	-52.08	2.20	11.60	-42.68	-13.00	H
9299.88	-50.28	2.00	11.60	-40.68	-13.00	H
9474.00	-50.89	2.10	11.60	-41.39	-13.00	V
9736.12	-50.95	2.20	11.20	-41.95	-13.00	H
9818.88	-51.79	2.30	11.20	-42.89	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26797**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8419.12	-51.57	1.80	11.30	-42.07	-13.00	H
9103.00	-51.01	2.20	11.60	-41.61	-13.00	H
9299.62	-50.40	2.00	11.60	-40.80	-13.00	H
9475.00	-50.73	2.10	11.60	-41.23	-13.00	V
9729.88	-51.40	2.20	11.20	-42.40	-13.00	H
9794.12	-51.13	2.30	11.20	-42.23	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26915**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7983.38	-52.40	1.90	11.30	-43.00	-13.00	H
9100.38	-52.01	2.20	11.60	-42.61	-13.00	H
9303.75	-50.57	2.00	11.60	-40.97	-13.00	H
9480.38	-50.89	2.10	11.60	-41.39	-13.00	V
9733.62	-51.65	2.20	11.20	-42.65	-13.00	H
9786.50	-51.36	2.30	11.20	-42.46	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 27033**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8507.62	-52.53	2.10	12.00	-42.63	-13.00	H
9106.12	-51.83	2.20	11.60	-42.43	-13.00	H
9307.25	-51.03	2.00	11.60	-41.43	-13.00	H
9473.75	-50.78	2.10	11.60	-41.28	-13.00	V
9744.00	-51.04	2.20	11.20	-42.04	-13.00	H
9788.00	-51.50	2.30	11.20	-42.60	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26797**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8481.75	-52.69	1.80	11.30	-43.19	-13.00	H
9105.00	-52.04	2.20	11.60	-42.64	-13.00	H
9224.25	-50.67	2.10	11.60	-41.17	-13.00	H
9470.50	-51.75	2.10	11.60	-42.25	-13.00	V
9736.62	-50.96	2.20	11.20	-41.96	-13.00	H
9780.25	-51.47	2.30	11.20	-42.57	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26915**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7376.62	-53.72	1.70	12.00	-43.42	-13.00	H
9095.75	-51.72	2.20	11.60	-42.32	-13.00	H
9295.00	-51.01	2.00	11.60	-41.41	-13.00	H
9470.12	-51.21	2.10	11.60	-41.71	-13.00	V
9751.00	-50.17	2.20	11.20	-41.17	-13.00	H
9797.25	-51.30	2.30	11.20	-42.40	-13.00	V

**LTE Band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 27033**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7224.75	-52.84	1.80	12.00	-42.64	-13.00	H
9102.50	-51.11	2.20	11.60	-41.71	-13.00	H
9297.50	-50.97	2.00	11.60	-41.37	-13.00	H
9424.50	-51.29	2.10	11.60	-41.79	-13.00	H
9752.12	-51.32	2.20	11.20	-42.32	-13.00	H
9842.38	-51.30	2.30	11.20	-42.40	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26797**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
7207.12	-53.26	1.80	12.00	-43.06	-13.00	V
9090.88	-52.22	2.20	11.60	-42.82	-13.00	H
9301.00	-50.98	2.00	11.60	-41.38	-13.00	H
9474.62	-50.95	2.10	11.60	-41.45	-13.00	V
9753.12	-51.39	2.20	11.20	-42.39	-13.00	H
9790.38	-51.64	2.30	11.20	-42.74	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26915**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8442.00	-52.36	1.80	11.30	-42.86	-13.00	H
9101.75	-52.17	2.20	11.60	-42.77	-13.00	H
9223.38	-50.68	2.10	11.60	-41.18	-13.00	H
9474.25	-50.31	2.10	11.60	-40.81	-13.00	V
9725.25	-50.84	2.20	11.20	-41.84	-13.00	H
9785.88	-51.19	2.30	11.20	-42.29	-13.00	H

**LTE Band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 27033**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8771.62	-52.82	1.90	12.00	-42.72	-13.00	H
9097.25	-52.28	2.20	11.60	-42.88	-13.00	H
9299.38	-51.04	2.00	11.60	-41.44	-13.00	H
9427.00	-51.47	2.10	11.60	-41.97	-13.00	H
9731.75	-50.34	2.20	11.20	-41.34	-13.00	H
9799.50	-51.44	2.30	11.20	-42.54	-13.00	H



**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26697**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
3256.88	-53.31	1.10	11.50	-42.91	-13.00	V
9093.75	-51.89	2.20	11.60	-42.49	-13.00	H
9294.88	-51.02	2.00	11.60	-41.42	-13.00	H
9471.12	-50.10	2.10	11.60	-40.60	-13.00	V
9730.00	-51.41	2.20	11.20	-42.41	-13.00	H
9788.62	-51.29	2.30	11.20	-42.39	-13.00	H

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26740**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8477.62	-52.24	1.80	11.30	-42.74	-13.00	H
9103.50	-51.14	2.20	11.60	-41.74	-13.00	H
9300.25	-50.19	2.00	11.60	-40.59	-13.00	H
9478.75	-51.48	2.10	11.60	-41.98	-13.00	V
9726.25	-50.41	2.20	11.20	-41.41	-13.00	H
9797.88	-51.27	2.30	11.20	-42.37	-13.00	H

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26783**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	Path Loss	Antenna Gain	Peak ERP(dBm)	Limit (dBm)	Polarization
8469.75	-51.87	1.80	11.30	-42.37	-13.00	H
9097.88	-51.94	2.20	11.60	-42.54	-13.00	H
9299.12	-50.92	2.00	11.60	-41.32	-13.00	H
9369.88	-51.18	2.00	11.60	-41.58	-13.00	V
9733.00	-51.13	2.20	11.20	-42.13	-13.00	H
9786.88	-51.14	2.30	11.20	-42.24	-13.00	H