



MEASUREMENT REPORT

FCC PART 24 & 27 LTE

FCC ID: HD5-EDA50211

APPLICANT: Honeywell International Inc
Honeywell Sensing & Productivity Solutions

Application Type: Class II Permissive Change

Product: Mobile Computer

Model No.: EDA50-211

Brand Name: Honeywell

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s): Part 2, Part 24 Subpart E, Part 27 Subpart L,
Part 27 Subpart M

Test Procedure(s): ANSI/TIA-603-D-2010, KDB 971168 D01v02r02
KDB 412172 D01v01r01

Test Date: July 24 ~ August 08, 2017

Reviewed By : *Jame Yuan*

(Jame Yuan)

Approved By : *Marlin Chen*

(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1707RSU02608	Rev. 01	Initial report	08-10-2017	Valid

Note: This test report was based on MRT original report number: 1704RSU05708. The EUT change the all antennas of BT/Wi-Fi/NFC/GSM/WCDMA/LTE, and we have assessed the part of radiation emission testing.

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§2.1033 General Information

Applicant:	Honeywell International Inc Honeywell Sensing and Productivity Solutions
Applicant Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Manufacturer:	Honeywell International Inc Honeywell Sensing and Productivity Solutions
Manufacturer Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT Registration No.:	893164
FCC Rule Part(s):	Part 24 Subpart E, Part 27 Subpart L & M
Model No.:	EDA50-211
FCC ID:	HD5-EDA50211
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Mobile Computer
Model No.:	EDA50-211
Brand Name:	Honeywell
Hardware Version:	V2.0
Software Version:	205.01.00.0006.eng
IMEI:	356074080038511
Wi-Fi Specification:	802.11a/b/g/n
Bluetooth Specification:	v4.0 dual mode
GSM Operation Band (s):	E-GSM 850 / DCS 1900
WCDMA Operation Band (s):	Band II / V
LTE Operation Band (s):	FDD Band 2/4/7
NFC:	13.56MHz
GPS:	1575.42MHz
Components	
Adapter	Model No.: ADS-12B-06 05010E Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A Output Power: 5VDC 2.0A

2.2. Product Specification Subjective to this Report

Operational Band	LTE Band 2, LTE Band 4, LTE Band 7
Tx Frequency	LTE Band 2: 1850.7MHz ~ 1909.3MHz LTE Band 4: 1710.7MHz ~ 1754.3MHz LTE Band 7: 2502.5MHz ~ 2567.5MHz
Rx Frequency	LTE Band 2: 1930.7MHz ~ 1989.3MHz LTE Band 4: 2110.7MHz ~ 2154.3MHz LTE Band 7: 2622.5MHz ~ 2687.5MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz
Type of Modulation	QPSK / 16-QAM
Antenna Type	FPC Antenna
Antenna Gain	Band 2: 0.8dBi; Band 4: 0.5dBi; Band 7: 1.5dBi;

2.3. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS), 5GHz WLAN (UNII), Bluetooth (v4.0 dual mode), NFC, GSM 850/1900 WCDMA Band II/V, LTE FDD Band 2/4/7

2.4. Test Configuration

The **Mobile Computer** was tested per the guidance of ANSI/TIA-603-D-2010 and KDB 971168 D01v02r02. See section 3.0 of this report for a description of the radiated and antenna port conducted emissions tests.

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

3. DESCRIPTION OF TEST

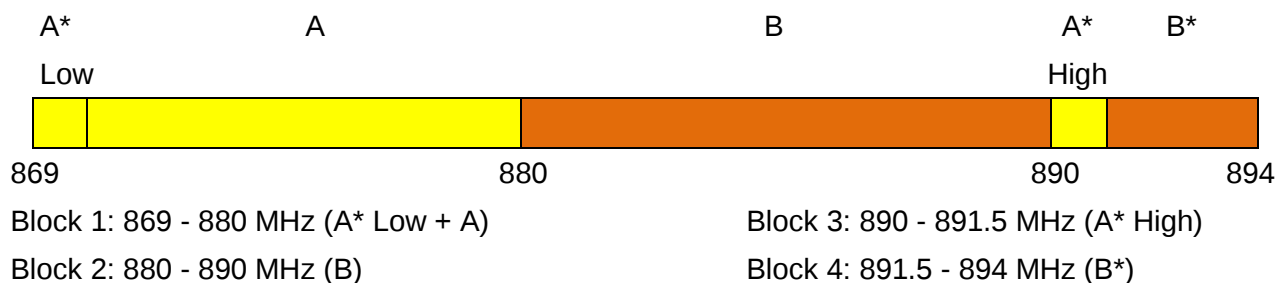
3.1. Evaluation Procedure

The measurement procedures described in the “Land Mobile FM or PM - Communications Equipment - Measurements and Performance Standards” (ANSI/TIA-603-D-2010) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168) were used in the measurement of the **Mobile Computer**.

Deviation from measurement procedure.....None

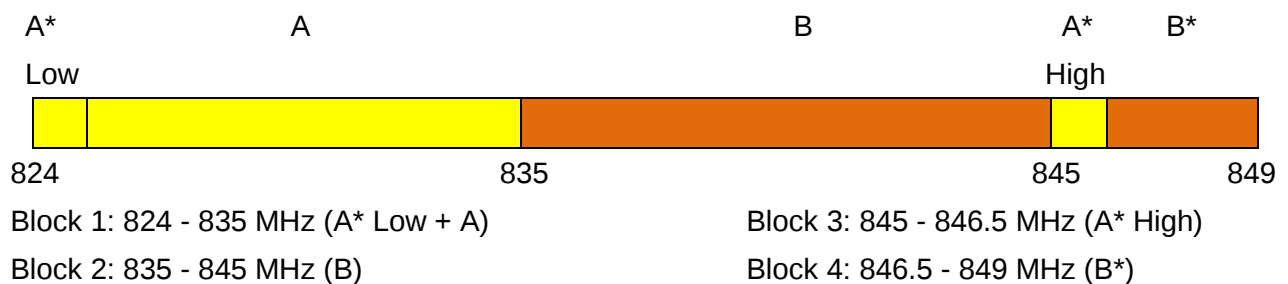
3.2. Cellular - Base Frequency Blocks

§22.905



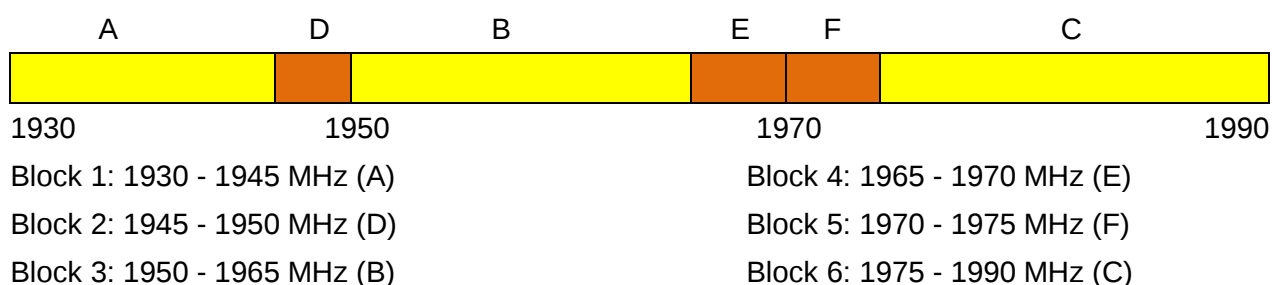
3.3. Cellular - Mobile Frequency Blocks

§22.905



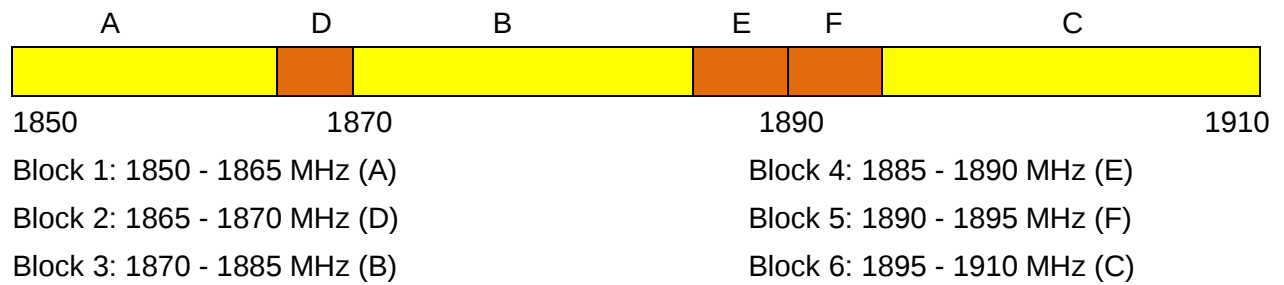
3.4. PCS - Base Frequency Blocks

§24.229



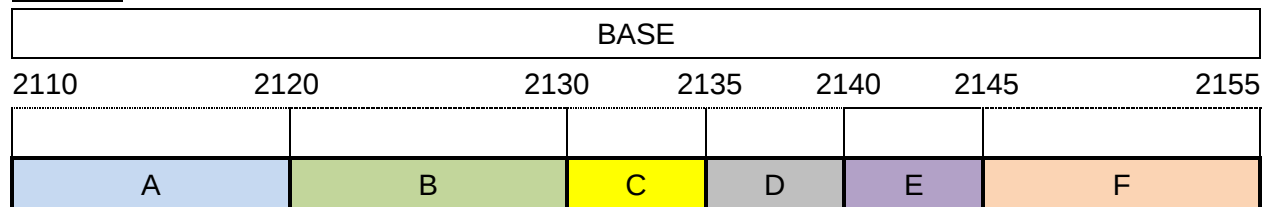
3.5. PCS - Mobile Frequency Blocks

§24.229



3.6. AWS - Base Frequency Blocks

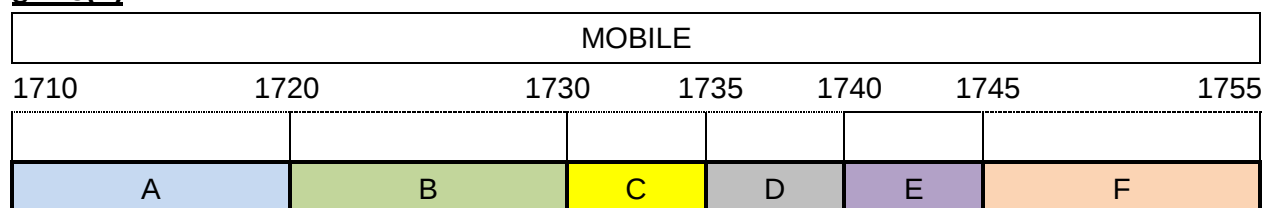
§27.5(h)



- | | |
|------------------------------|------------------------------|
| Block 1: 2110 - 2120 MHz (A) | Block 4: 2135 - 2140 MHz (D) |
| Block 2: 2120 - 2130 MHz (B) | Block 5: 2140 - 2145 MHz (E) |
| Block 3: 2130 - 2135 MHz (C) | Block 6: 2145 - 2155 MHz (F) |

3.7. AWS - Mobile Frequency Blocks

§27.5(h)



- | | |
|------------------------------|------------------------------|
| Block 1: 1710 - 1720 MHz (A) | Block 4: 1735 - 1740 MHz (D) |
| Block 2: 1720 - 1730 MHz (B) | Block 5: 1740 - 1745 MHz (E) |
| Block 3: 1730 - 1735 MHz (C) | Block 6: 1745 - 1755 MHz (F) |

3.8. Radiated Power and Radiated Spurious Emissions

§2.1053 § 24.238(a) § 27.50(g) § 27.50(h) § 27.53(m)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurement and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 80cm high PVC support structure is placed on top of the turntable.

The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-D-2010, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10 \cdot \log_{10}(\text{Power [Watts]})$.

4. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9038A	MRTSUE06125	1 year	2017/08/19
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2018/06/21
Radio Communication Tester	R&S	CMU 200	MRTSUE06009	1 year	2017/11/10
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2018/02/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2018/04/15
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/21
TRILOG Antenna	Schwarzbeck	VULB9168	MRTSUE06172	1 year	2017/11/19
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2017/11/19
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2017/12/30
Digital Thermometer & Hygrometer	Minggao	N/A	MRTSUE06170	1 year	2017/12/14
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2018/05/10

Software	Version	Function
e3	V8.3.5	EMI Test Software

5. SAMPLE CALCULATIONS

QPSK Emission Designator

Emission Designator = 250KGXW

LTE BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

16-QAM Emission Designator

Emission Designator = 250KG7W

LTE BW = 250 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

Spurious Radiated Emission

Example: Mid. CHLTE Mode 2nd Harmonic (1564 MHz)

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0dBm.

The gain of the substituted antenna is 8.1dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564MHz. So 6.1 dB is added to the signal generator reading of -30.9dBm yielding -24.80dBm. The fundamental EIRP was 25.50dBm so this harmonic was 25.50dBm - (-24.80).

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Emission Measurement - AC2
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: 4.18dB 1GHz ~ 26GHz: 4.76dB

7. TEST RESULT

7.1. Summary

Company Name: Honeywell International Inc
Honeywell Sensing & Productivity Solutions
FCC ID: HD5-EDA50211
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
24.232(c), 27.50(h)(2)	Equivalent Isotropic Radiated Power (LTE Band 2 & 7)	< 2 Watts max. EIRP	Radiated	Pass	Section 7.2
27.50(d)(4)	Equivalent Isotropic Radiated Power (LTE Band 4)	< 1 Watts max. EIRP		Pass	
2.1053, 24.238(a), 27.53(g), 27.53(h)	Undesirable Emissions	> 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		Pass	
2.1053, 27.53(m)(4)		> 55 + log ₁₀ (P[Watts]) for all out-of-band emissions			

Notes:

- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- The analyzer plots shown in Section 7.2, 7.3, 7.4, 7.5 were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

7.2. Radiated Power (ERP/EIRP) and Radiated Spurious Emission

7.2.1. Test Limit

Radiated Power

For FCC Part 22.913(a)(5): GSM850 / WCDMA Band V

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(c): PCS1900 / WCDMA Band II / LTE Band 7

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

For FCC Part 27.50(h): LTE Band 2

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

For FCC Part 27.50(d): LTE Band 4

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

Radiated Spurious Emission

Out of band emissions: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Additional requirement for LTE Band 7:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB.

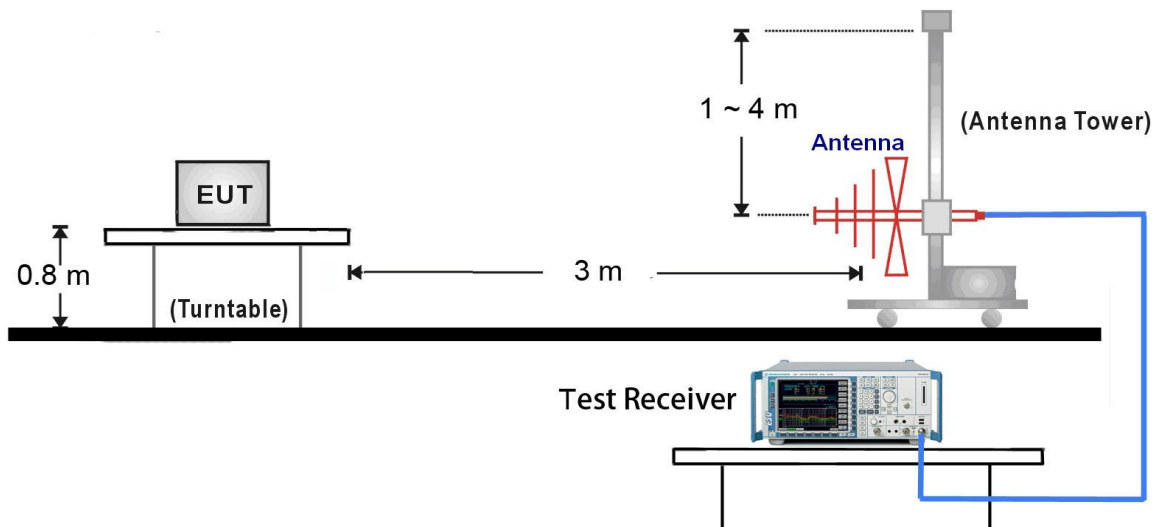
7.2.2. Test Procedure Used

KDB 971168 D01v02r02 - Section 5.2.3 & ANSI/TIA-603-D-2010

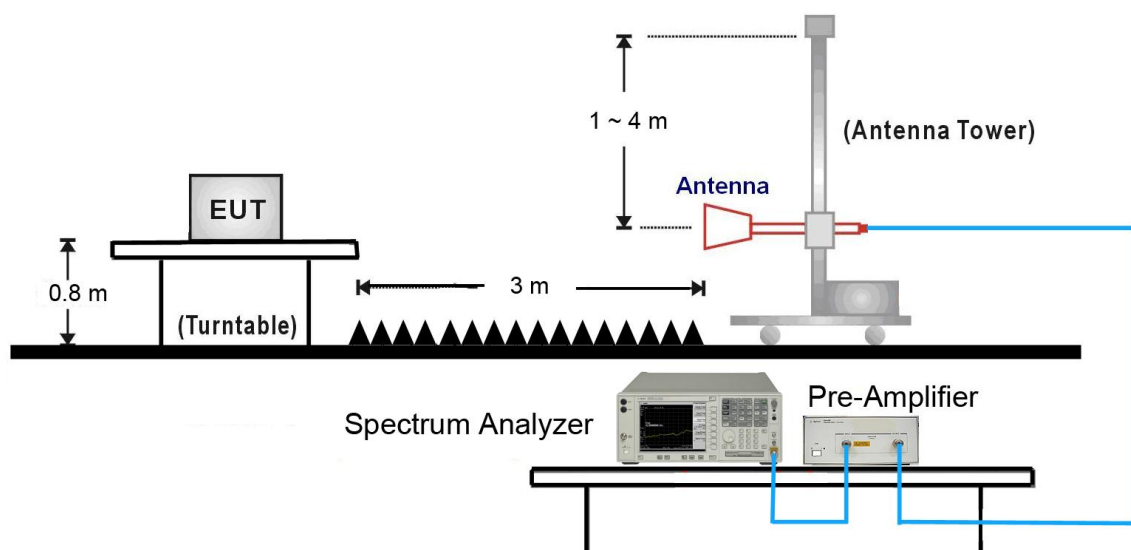
KDB 971168 D01 v02r02 - Section 5.8 & ANSI/TIA-603-D-2010 - Section 2.2.12

7.2.3. Test Setup

30MHz ~ 1GHz Test Setup:



1GHz ~ 26GHz Test Setup:



7.2.4. Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/07/26

FDD LTE Band 7							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20775	21100	21425	20775	21100	21425
5MHz	1 (RB_Pos:0)	20.23	20.52	20.12	19.46	20.01	19.56
	1 (RB_Pos:12)	19.86	20.32	19.87	19.19	19.78	19.31
	1 (RB_Pos:24)	19.57	20.24	19.71	19.34	19.77	19.22
	12 (RB_Pos:0)	19.32	19.39	19.36	18.42	18.88	18.98
	12 (RB_Pos:6)	18.87	19.31	19.16	18.23	18.78	18.71
	12 (RB_Pos:11)	18.56	19.23	18.61	18.22	18.72	18.56
	25 (RB_Pos:0)	18.35	19.18	18.31	18.39	18.6	18.82
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20800	21100	21400	20800	21100	21400
10MHz	1 (RB_Pos:0)	20.74	21.04	20.47	19.35	19.24	19.81
	1 (RB_Pos:24)	20.56	20.86	20.17	19.65	19.15	19.54
	1 (RB_Pos:49)	20.22	20.84	20.21	19.03	19.73	19.76
	25 (RB_Pos:0)	19.72	20.06	19.86	18.61	18.44	18.45
	25 (RB_Pos:12)	19.41	20.05	19.45	18.33	18.31	18.43
	25 (RB_Pos:24)	19.35	20.03	19.01	18.25	18.22	18.42
	50 (RB_Pos:0)	19.73	20.02	19.88	18.45	18.35	18.54
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20825	21100	21375	20825	21100	21375
15MHz	1 (RB_Pos:0)	20.71	20.58	20.98	19.97	19.62	20.07
	1 (RB_Pos:37)	20.81	20.39	20.85	20.06	19.58	20.01
	1 (RB_Pos:74)	20.42	20.82	20.81	19.73	19.64	19.95
	36 (RB_Pos:0)	19.68	19.24	19.46	18.72	18.85	18.87
	36 (RB_Pos:18)	19.54	19.89	19.41	18.56	18.88	18.85
	36 (RB_Pos:37)	19.51	19.72	19.36	18.41	18.91	18.76
	75 (RB_Pos:0)	19.55	19.36	19.18	18.55	18.71	18.82

Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
	Channel	20850	21100	21350	20850	21100	21350
20MHz	1 (RB_Pos:0)	21.06	21.12	21.18	20.02	19.85	20.62
	1 (RB_Pos:49)	20.62	21.2	21.08	19.81	20.15	20.42
	1 (RB_Pos:99)	20.45	20.98	21.02	19.37	19.67	20.37
	50 (RB_Pos:0)	19.62	20.22	20.02	18.68	18.83	18.94
	50 (RB_Pos:24)	19.51	20.21	19.91	18.65	18.84	18.92
	50 (RB_Pos:49)	19.49	20.18	19.86	18.55	18.79	18.89
	100 (RB_Pos:0)	19.56	20.28	19.93	18.61	18.78	18.88

Product	Mobile Computer	Temperature	25°C
Test Engineer	Flag Yang	Relative Humidity	52%
Test Site	AC2	Test Date	2017/07/28

Radiated Power

LTE Band 2									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1.4	Low Channel 18607 (1850.7MHz)								
	QPSK	1850.70	H	11.56	0.69	10.40	21.27	33.00	-11.73
		1850.70	V	14.08	0.69	10.40	23.79	33.00	-9.21
	16QAM	1850.70	H	10.84	0.69	10.40	20.55	33.00	-12.45
		1850.70	V	13.49	0.69	10.40	23.20	33.00	-9.80
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	11.90	0.70	10.43	21.63	33.00	-11.37
		1880.00	V	11.12	0.70	10.43	20.85	33.00	-12.15
	16QAM	1880.00	H	12.04	0.70	10.43	21.77	33.00	-11.23
		1880.00	V	11.47	0.70	10.43	21.20	33.00	-11.80
	High Channel 19193 (1909.3MHz)								
	QPSK	1909.30	H	11.56	0.71	10.44	21.29	33.00	-11.71
		1909.30	V	10.51	0.71	10.44	20.24	33.00	-12.76
	16QAM	1909.30	H	9.88	0.71	10.44	19.61	33.00	-13.39
		1909.30	V	9.96	0.71	10.44	19.69	33.00	-13.31

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 2									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3.0	Low Channel 18615 (1851.5MHz)								
	QPSK	1851.50	H	11.66	0.69	10.40	21.37	33.00	-11.63
		1851.50	V	14.24	0.69	10.40	23.95	33.00	-9.05
	16QAM	1851.50	H	11.14	0.69	10.40	20.85	33.00	-12.15
		1851.50	V	13.43	0.69	10.40	23.14	33.00	-9.86
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	12.26	0.70	10.43	21.99	33.00	-11.01
		1880.00	V	11.75	0.70	10.43	21.48	33.00	-11.52
	16QAM	1880.00	H	11.93	0.70	10.43	21.66	33.00	-11.34
		1880.00	V	11.42	0.70	10.43	21.15	33.00	-11.85
	High Channel 19185 (1908.5MHz)								
	QPSK	1908.50	H	11.88	0.71	10.44	21.61	33.00	-11.39
		1908.50	V	11.12	0.71	10.44	20.85	33.00	-12.15
	16QAM	1908.50	H	12.51	0.71	10.44	22.24	33.00	-10.76
		1908.50	V	11.89	0.71	10.44	21.62	33.00	-11.38
5.0	Low Channel 18625 (1852.5MHz)								
	QPSK	1852.50	H	11.46	0.69	10.40	21.17	33.00	-11.83
		1852.50	V	14.29	0.69	10.40	24.00	33.00	-9.00
	16QAM	1852.50	H	11.75	0.69	10.40	21.46	33.00	-11.54
		1852.50	V	14.17	0.69	10.40	23.88	33.00	-9.12
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	12.07	0.70	10.43	21.80	33.00	-11.20
		1880.00	V	11.45	0.70	10.43	21.18	33.00	-11.82
	16QAM	1880.00	H	12.36	0.70	10.43	22.09	33.00	-10.91
		1880.00	V	11.78	0.70	10.43	21.51	33.00	-11.49
	High Channel 19175 (1907.5MHz)								
	QPSK	1907.50	H	12.16	0.71	10.44	21.89	33.00	-11.11
		1907.50	V	11.46	0.71	10.44	21.19	33.00	-11.81
	16QAM	1907.50	H	12.19	0.71	10.44	21.92	33.00	-11.08
		1907.50	V	11.80	0.71	10.44	21.53	33.00	-11.47

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 2									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
10.0	Low Channel 18650 (1855.0MHz)								
	QPSK	1855.00	H	11.35	0.69	10.41	21.07	33.00	-11.93
		1855.00	V	14.26	0.69	10.41	23.98	33.00	-9.02
	16QAM	1855.00	H	11.30	0.69	10.41	21.02	33.00	-11.98
		1855.00	V	13.92	0.69	10.41	23.64	33.00	-9.36
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	12.36	0.70	10.43	22.09	33.00	-10.91
		1880.00	V	12.00	0.70	10.43	21.73	33.00	-11.27
	16QAM	1880.00	H	12.64	0.70	10.43	22.37	33.00	-10.63
		1880.00	V	12.76	0.70	10.43	22.49	33.00	-10.51
	High Channel 19150 (1905.0MHz)								
	QPSK	1905.00	H	12.21	0.71	10.45	21.95	33.00	-11.05
		1905.00	V	12.45	0.71	10.45	22.19	33.00	-10.81
	16QAM	1905.00	H	11.81	0.71	10.45	21.55	33.00	-11.45
		1905.00	V	11.77	0.71	10.45	21.51	33.00	-11.49
15.0	Low Channel 18675 (1857.5MHz)								
	QPSK	1857.50	H	11.60	0.69	10.41	21.32	33.00	-11.68
		1857.50	V	14.06	0.69	10.41	23.78	33.00	-9.22
	16QAM	1857.50	H	11.36	0.69	10.41	21.08	33.00	-11.92
		1857.50	V	13.88	0.69	10.41	23.60	33.00	-9.40
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	11.95	0.70	10.43	21.68	33.00	-11.32
		1880.00	V	12.65	0.70	10.43	22.38	33.00	-10.62
	16QAM	1880.00	H	12.24	0.70	10.43	21.97	33.00	-11.03
		1880.00	V	12.81	0.70	10.43	22.54	33.00	-10.46
	High Channel 19125 (1902.5MHz)								
	QPSK	1902.50	H	13.29	0.71	10.45	23.03	33.00	-9.97
		1902.50	V	12.86	0.71	10.45	22.60	33.00	-10.40
	16QAM	1902.50	H	12.95	0.71	10.45	22.69	33.00	-10.31
		1902.50	V	13.46	0.71	10.45	23.20	33.00	-9.80

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 2									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
20.0	Low Channel 18700 (1860.0MHz)								
	QPSK	1860.00	H	11.93	0.69	10.41	21.65	33.00	-11.35
		1860.00	V	14.30	0.69	10.41	24.02	33.00	-8.98
	16QAM	1860.00	H	11.16	0.69	10.41	20.88	33.00	-12.12
		1860.00	V	14.22	0.69	10.41	23.94	33.00	-9.06
	Middle Channel 18900 (1880.0MHz)								
	QPSK	1880.00	H	11.83	0.70	10.43	21.56	33.00	-11.44
		1880.00	V	12.95	0.70	10.43	22.68	33.00	-10.32
	16QAM	1880.00	H	11.34	0.70	10.43	21.07	33.00	-11.93
		1880.00	V	12.36	0.70	10.43	22.09	33.00	-10.91
	High Channel 19100 (1900.0MHz)								
	QPSK	1900.00	H	13.01	0.71	10.45	22.75	33.00	-10.25
		1900.00	V	12.76	0.71	10.45	22.50	33.00	-10.50
	16QAM	1900.00	H	13.55	0.71	10.45	23.29	33.00	-9.71
		1900.00	V	13.11	0.71	10.45	22.85	33.00	-10.15

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 4									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1.4	Low Channel 19957 (1710.7MHz)								
	QPSK	1710.70	H	11.75	0.67	10.15	21.23	30.00	-8.77
		1710.70	V	13.78	0.67	10.15	23.26	30.00	-6.74
	16QAM	1710.70	H	11.21	0.67	10.15	20.69	30.00	-9.31
		1710.70	V	5.77	0.67	10.15	15.25	30.00	-14.75
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	12.39	0.68	10.20	21.91	30.00	-8.09
		1732.50	V	14.05	0.68	10.20	23.57	30.00	-6.43
	16QAM	1732.50	H	12.46	0.68	10.20	21.98	30.00	-8.02
		1732.50	V	12.98	0.68	10.20	22.50	30.00	-7.50
	High Channel 20393 (1754.3MHz)								
	QPSK	1754.30	H	12.17	0.68	10.25	21.74	30.00	-8.26
		1754.30	V	14.09	0.68	10.25	23.66	30.00	-6.34
	16QAM	1754.30	H	12.22	0.68	10.25	21.79	30.00	-8.21
		1754.30	V	12.94	0.68	10.25	22.51	30.00	-7.49
3.0	Low Channel 19965 (1711.5MHz)								
	QPSK	1711.50	H	11.68	0.67	10.15	21.16	30.00	-8.84
		1711.50	V	13.87	0.67	10.15	23.35	30.00	-6.65
	16QAM	1711.50	H	11.18	0.67	10.15	20.66	30.00	-9.34
		1711.50	V	13.27	0.67	10.15	22.75	30.00	-7.25
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	12.53	0.68	10.20	22.05	30.00	-7.95
		1732.50	V	13.88	0.68	10.20	23.40	30.00	-6.60
	16QAM	1732.50	H	12.13	0.68	10.20	21.65	30.00	-8.35
		1732.50	V	12.94	0.68	10.20	22.46	30.00	-7.54
	High Channel 20385 (1753.5MHz)								
	QPSK	1753.50	H	12.26	0.68	10.25	21.83	30.00	-8.17
		1753.50	V	13.99	0.68	10.25	23.56	30.00	-6.44
	16QAM	1753.50	H	12.25	0.68	10.25	21.82	30.00	-8.18
		1753.50	V	13.19	0.68	10.25	22.76	30.00	-7.24

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 4									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.0	Low Channel 19975 (1712.5MHz)								
	QPSK	1712.50	H	11.68	0.67	10.16	21.17	30.00	-8.83
		1712.50	V	13.62	0.67	10.16	23.11	30.00	-6.89
	16QAM	1712.50	H	11.21	0.67	10.16	20.70	30.00	-9.30
		1712.50	V	13.09	0.67	10.16	22.58	30.00	-7.42
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	11.82	0.68	10.20	21.34	30.00	-8.66
		1732.50	V	13.60	0.68	10.20	23.12	30.00	-6.88
	16QAM	1732.50	H	11.67	0.68	10.20	21.19	30.00	-8.81
		1732.50	V	13.09	0.68	10.20	22.61	30.00	-7.39
	High Channel 20375 (1752.5MHz)								
	QPSK	1752.50	H	11.93	0.68	10.25	21.50	30.00	-8.50
		1752.50	V	13.95	0.68	10.25	23.52	30.00	-6.48
10.0	16QAM	1752.50	H	11.44	0.68	10.25	21.01	30.00	-8.99
		1752.50	V	13.18	0.68	10.25	22.75	30.00	-7.25
	Low Channel 20000 (1715.0MHz)								
	QPSK	1715.00	H	10.84	0.67	10.16	20.33	30.00	-9.67
		1715.00	V	13.62	0.67	10.16	23.11	30.00	-6.89
	16QAM	1715.00	H	11.38	0.67	10.16	20.87	30.00	-9.13
		1715.00	V	13.06	0.67	10.16	22.55	30.00	-7.45
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	11.93	0.68	10.20	21.45	30.00	-8.55
		1732.50	V	13.82	0.68	10.20	23.34	30.00	-6.66
	16QAM	1732.50	H	11.80	0.68	10.20	21.32	30.00	-8.68
		1732.50	V	12.48	0.68	10.20	22.00	30.00	-8.00
	High Channel 20350 (1750.0MHz)								
	QPSK	1750.00	H	12.40	0.69	10.24	21.95	30.00	-8.05
		1750.00	V	14.16	0.68	10.23	23.71	30.00	-6.29
	16QAM	1750.00	H	13.16	0.69	10.24	22.71	30.00	-7.29
		1750.00	V	12.98	0.69	10.24	22.53	30.00	-7.47

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 4									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
15.0	Low Channel 20025 (1717.5MHz)								
	QPSK	1717.50	H	9.31	0.67	10.17	18.81	30.00	-11.19
		1717.50	V	13.97	0.67	10.17	23.47	30.00	-6.53
	16QAM	1717.50	H	11.86	0.67	10.17	21.36	30.00	-8.64
		1717.50	V	13.17	0.67	10.17	22.67	30.00	-7.33
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	11.66	0.68	10.20	21.18	30.00	-8.82
		1732.50	V	13.68	0.68	10.20	23.20	30.00	-6.80
	16QAM	1732.50	H	11.91	0.68	10.20	21.43	30.00	-8.57
		1732.50	V	9.97	0.68	10.20	19.49	30.00	-10.51
	High Channel 20325 (1747.5MHz)								
	QPSK	1747.50	H	12.98	0.69	10.24	22.53	30.00	-7.47
		1747.50	V	14.04	0.69	10.24	23.59	30.00	-6.41
	16QAM	1747.50	H	13.28	0.69	10.24	22.83	30.00	-7.17
		1747.50	V	12.99	0.69	10.24	22.54	30.00	-7.46
20.0	Low Channel 20050 (1720.0MHz)								
	QPSK	1720.00	H	11.31	0.67	10.17	20.81	30.00	-9.19
		1720.00	V	13.81	0.67	10.17	23.31	30.00	-6.69
	16QAM	1720.00	H	11.24	0.67	10.17	20.74	30.00	-9.26
		1720.00	V	13.04	0.67	10.17	22.54	30.00	-7.46
	Middle Channel 20175 (1732.5MHz)								
	QPSK	1732.50	H	10.95	0.68	10.20	20.47	30.00	-9.53
		1732.50	V	13.8	0.68	10.20	23.32	30.00	-6.68
	16QAM	1732.50	H	10.86	0.68	10.20	20.38	30.00	-9.62
		1732.50	V	13.21	0.68	10.20	22.73	30.00	-7.27
	High Channel 20300 (1745.0MHz)								
	QPSK	1745.00	H	12.14	0.68	10.23	21.69	30.00	-8.31
		1745.00	V	14.54	0.69	10.24	24.09	30.00	-5.91
	16QAM	1745.00	H	12.14	0.68	10.23	21.69	30.00	-8.31
		1745.00	V	14.15	0.68	10.23	22.80	30.00	-7.20

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 7									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.0	Low Channel 20775 (2502.5MHz)								
	QPSK	2502.5	H	11.68	0.82	10.6	21.46	33	-11.54
		2502.5	V	8.53	0.82	10.6	18.31	33	-14.69
	16QAM	2502.5	H	11.53	0.82	10.6	21.31	33	-11.69
		2502.5	V	8.24	0.82	10.6	18.02	33	-14.98
	Middle Channel 21100 (2535.0MHz)								
	QPSK	2535.00	H	11.17	0.83	10.66	21.00	33.00	-12.00
		2535.00	V	8.22	0.83	10.66	18.05	33.00	-14.95
	16QAM	2535.00	H	11.30	0.83	10.66	21.13	33.00	-11.87
		2535.00	V	8.34	0.83	10.66	18.17	33.00	-14.83
	High Channel 21425 (2567.5MHz)								
	QPSK	2567.50	H	11.35	0.83	10.72	21.24	33.00	-11.76
		2567.50	V	6.17	0.83	10.72	16.06	33.00	-16.94
	16QAM	2567.50	H	11.41	0.83	10.72	21.30	33.00	-11.70
		2567.50	V	6.20	0.83	10.72	16.09	33.00	-16.91
10.0	Low Channel 20800 (2505.0MHz)								
	QPSK	2505.00	H	11.64	0.82	10.60	21.42	33.00	-11.58
		2505.00	V	8.26	0.82	10.60	18.04	33.00	-14.96
	16QAM	2505.00	H	11.57	0.82	10.60	21.35	33.00	-11.65
		2505.00	V	11.67	0.82	10.60	21.45	33.00	-11.55
	Middle Channel 21100 (2535.0MHz)								
	QPSK	2535.00	H	11.36	0.83	10.66	21.19	33.00	-11.81
		2535.00	V	7.38	0.83	10.66	17.21	33.00	-15.79
	16QAM	2535.00	H	10.94	0.83	10.66	20.77	33.00	-12.23
		2535.00	V	7.49	0.83	10.66	17.32	33.00	-15.68
	High Channel 21400 (2565.0MHz)								
	QPSK	2565.00	H	11.16	0.83	10.71	21.04	33.00	-11.96
		2565.00	V	6.29	0.83	10.71	16.17	33.00	-16.83
	16QAM	2565.00	H	11.38	0.83	10.71	21.26	33.00	-11.74
		2565.00	V	6.51	0.83	10.71	16.39	33.00	-16.61

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

LTE Band 7									
Bandwidth (MHz)	Modulation	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
15.0	Low Channel 20825 (2507.5MHz)								
	QPSK	2507.50	H	11.37	0.82	10.61	21.16	33.00	-11.84
		2507.50	V	8.40	0.82	10.61	18.19	33.00	-14.81
	16QAM	2507.50	H	11.58	0.82	10.61	21.37	33.00	-11.63
		2507.50	V	8.29	0.82	10.61	18.08	33.00	-14.92
	Middle Channel 21100 (2535.0MHz)								
	QPSK	2535.00	H	10.88	0.83	10.66	20.71	33.00	-12.29
		2535.00	V	7.08	0.83	10.66	16.91	33.00	-16.09
	16QAM	2535.00	H	11.07	0.83	10.66	20.90	33.00	-12.10
		2535.00	V	7.28	0.83	10.66	17.11	33.00	-15.89
	High Channel 21375 (2562.5MHz)								
	QPSK	2562.50	H	11.66	0.83	10.71	21.54	33.00	-11.46
		2562.50	V	7.54	0.83	10.71	17.42	33.00	-15.58
20.0	16QAM	2562.50	H	11.46	0.83	10.71	21.34	33.00	-11.66
		2562.50	V	7.70	0.83	10.71	17.58	33.00	-15.42
	Low Channel 20850 (2510.0MHz)								
	QPSK	2510.00	H	12.59	0.82	10.62	22.39	33.00	-10.61
		2510.00	V	7.83	0.82	10.62	17.63	33.00	-15.37
	16QAM	2510.00	H	12.46	0.82	10.62	22.26	33.00	-10.74
		2510.00	V	7.96	0.82	10.62	17.76	33.00	-15.24
	Middle Channel 21100 (2535.0MHz)								
	QPSK	2535.00	H	10.51	0.83	10.66	20.34	33.00	-12.66
		2535.00	V	6.91	0.83	10.66	16.74	33.00	-16.26
	16QAM	2535.00	H	10.66	0.83	10.66	20.49	33.00	-12.51
		2535.00	V	7.08	0.83	10.66	16.91	33.00	-16.09
	High Channel 21350 (2560.0MHz)								
	QPSK	2560.00	H	11.83	0.83	10.70	21.70	33.00	-11.30
		2560.00	V	5.72	0.83	10.70	15.59	33.00	-17.41
	16QAM	2560.00	H	11.91	0.83	10.70	21.78	33.00	-11.22
		2560.00	V	5.83	0.83	10.70	15.70	33.00	-17.30

Note: EIRP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)

Radiated Spurious Emissions Measurements

Product	Mobile Computer	Temperature	25°C
Test Engineer	Flag Yang	Relative Humidity	52%
Test Site	TR3	Test Date	2017/08/02

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18607 (1850.7MHz) BW=1.4MHz							
3703.00	H	-62.37	1.01	12.69	-50.69	-13.00	-37.69
5556.00	H	-50.95	1.25	13.15	-39.05	-13.00	-26.05
3703.00	V	-64.07	1.01	12.69	-52.39	-13.00	-39.39
5556.00	V	-45.86	1.25	13.15	-33.96	-13.00	-20.96
Middle CH 18900 (1880.0MHz) BW=1.4MHz							
3762.50	H	-62.57	1.02	12.73	-50.86	-13.00	-37.86
5641.00	H	-58.92	1.26	13.14	-47.04	-13.00	-34.04
3762.50	V	-65.08	1.02	12.73	-53.37	-13.00	-40.37
5641.00	V	-54.85	1.26	13.14	-42.97	-13.00	-29.97
High CH 19193 (1909.3MHz) BW=1.4MHz							
3822.00	H	-62.70	1.03	12.73	-51.00	-13.00	-38.00
5726.00	H	-60.64	1.27	13.11	-48.80	-13.00	-35.80
3822.00	V	-64.28	1.03	12.73	-52.58	-13.00	-39.58
5726.00	V	-58.01	1.27	13.11	-46.17	-13.00	-33.17

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18607 (1850.7MHz) BW=1.4MHz							
3703.00	H	-62.53	1.01	12.69	-50.85	-13.00	-37.85
5556.00	H	-53.00	1.25	13.15	-41.10	-13.00	-28.10
3703.00	V	-64.46	1.01	12.69	-52.78	-13.00	-39.78
5556.00	V	-46.35	1.25	13.15	-34.45	-13.00	-21.45
Middle CH 18900 (1880.0MHz) BW=1.4MHz							
3762.50	H	-63.41	1.02	12.73	-51.70	-13.00	-38.70
5641.00	H	-59.64	1.26	13.14	-47.76	-13.00	-34.76
3762.50	V	-66.21	1.02	12.73	-54.50	-13.00	-41.50
5641.00	V	-54.44	1.26	13.14	-42.56	-13.00	-29.56
High CH 19193 (1909.3MHz) BW=1.4MHz							
3822.00	H	-63.81	1.03	12.73	-52.11	-13.00	-39.11
5726.00	H	-59.80	1.27	13.11	-47.96	-13.00	-34.96
3822.00	V	-64.87	1.03	12.73	-53.17	-13.00	-40.17
5726.00	V	-57.40	1.27	13.11	-45.56	-13.00	-32.56

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$.

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18615 (1851.5MHz) BW=3MHz							
3703.00	H	-63.68	1.01	12.69	-52.00	-13.00	-39.00
5556.00	H	-55.34	1.25	13.15	-43.44	-13.00	-30.44
3703.00	V	-64.73	1.01	12.69	-53.05	-13.00	-40.05
5556.00	V	-50.69	1.25	13.15	-38.79	-13.00	-25.79
Middle CH 18900 (1880.0MHz) BW=3MHz							
3762.50	H	-63.19	1.02	12.73	-51.48	-13.00	-38.48
5641.00	H	-61.26	1.26	13.14	-49.38	-13.00	-36.38
3762.50	V	-66.28	1.02	12.73	-54.57	-13.00	-41.57
5641.00	V	-57.99	1.26	13.14	-46.11	-13.00	-33.11
High CH 19185 (1908.5MHz) BW=3MHz							
3813.50	H	-64.84	1.03	12.74	-53.13	-13.00	-40.13
5726.00	H	-63.22	1.27	13.11	-51.38	-13.00	-38.38
3813.50	V	-64.01	1.03	12.74	-52.30	-13.00	-39.30
5726.00	V	-61.54	1.27	13.11	-49.70	-13.00	-36.70

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18615 (1851.5MHz) BW=3MHz							
3703.00	H	-64.31	1.01	12.69	-52.63	-13.00	-39.63
5556.00	H	-55.15	1.25	13.15	-43.25	-13.00	-30.25
3703.00	V	-65.04	1.01	12.69	-53.36	-13.00	-40.36
5556.00	V	-49.95	1.25	13.15	-38.05	-13.00	-25.05
Middle CH 18900 (1880.0MHz) BW=3MHz							
3762.50	H	-65.02	1.02	12.73	-53.31	-13.00	-40.31
5641.00	H	-60.56	1.26	13.14	-48.68	-13.00	-35.68
3762.50	V	-66.01	1.02	12.73	-54.30	-13.00	-41.30
5641.00	V	-55.88	1.26	13.14	-44.00	-13.00	-31.00
High CH 19185 (1908.5MHz) BW=3MHz							
3813.50	H	-64.26	1.03	12.74	-52.55	-13.00	-39.55
5726.00	H	-63.10	1.27	13.11	-51.26	-13.00	-38.26
3813.50	V	-63.58	1.03	12.74	-51.87	-13.00	-38.87
5726.00	V	-59.62	1.27	13.11	-47.78	-13.00	-34.78

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18625 (1852.5MHz) BW=5MHz							
3703.00	H	-63.73	1.01	12.69	-52.05	-13.00	-39.05
5556.00	H	-56.72	1.25	13.15	-44.82	-13.00	-31.82
3703.00	V	-65.68	1.01	12.69	-54.00	-13.00	-41.00
5556.00	V	-52.76	1.25	13.15	-40.86	-13.00	-27.86
Middle CH 18900 (1880.0MHz) BW=5MHz							
3754.00	H	-65.81	1.01	12.72	-54.10	-13.00	-41.10
5632.50	H	-62.51	1.26	13.14	-50.63	-13.00	-37.63
3754.00	V	-67.24	1.01	12.72	-55.53	-13.00	-42.53
5641.00	V	-59.61	1.26	13.14	-47.73	-13.00	-34.73
High CH 19175 (1907.5MHz) BW=5MHz							
3813.50	H	-65.38	1.03	12.74	-53.67	-13.00	-40.67
5726.00	H	-63.64	1.27	13.11	-51.80	-13.00	-38.80
3813.50	V	-64.25	1.03	12.74	-52.54	-13.00	-39.54
5717.50	V	-61.89	1.27	13.11	-50.05	-13.00	-37.05

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18625 (1852.5MHz) BW=5MHz							
3703.00	H	-63.65	1.01	12.69	-51.97	-13.00	-38.97
5556.00	H	-56.79	1.25	13.15	-44.89	-13.00	-31.89
3745.50	V	-66.73	1.01	12.72	-55.02	-13.00	-42.02
5556.00	V	-51.69	1.25	13.15	-39.79	-13.00	-26.79
Middle CH 18900 (1880.0MHz) BW=5MHz							
3762.50	H	-66.60	1.02	12.73	-54.89	-13.00	-41.89
5641.00	H	-62.95	1.26	13.14	-51.07	-13.00	-38.07
3762.50	V	-67.59	1.02	12.73	-55.88	-13.00	-42.88
5632.50	V	-60.22	1.26	13.14	-48.34	-13.00	-35.34
High CH 19175 (1907.5MHz) BW=5MHz							
3813.50	H	-65.92	1.03	12.74	-54.21	-13.00	-41.21
5717.50	H	-64.10	1.27	13.11	-52.26	-13.00	-39.26
3813.50	V	-64.76	1.03	12.74	-53.05	-13.00	-40.05
5717.50	V	-61.86	1.27	13.11	-50.02	-13.00	-37.02

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18650 (1855.0MHz) BW=10MHz							
3711.50	H	-65.99	1.01	12.70	-54.30	-13.00	-41.30
5564.50	H	-58.66	1.26	13.15	-46.77	-13.00	-33.77
3703.00	V	-66.70	1.01	12.69	-55.02	-13.00	-42.02
5564.50	V	-54.07	1.26	13.15	-42.18	-13.00	-29.18
Middle CH 18900 (1880.0MHz) BW=10MHz							
3754.00	H	-67.23	1.01	12.72	-55.52	-13.00	-42.52
5632.50	H	-63.16	1.26	13.14	-51.28	-13.00	-38.28
3762.50	V	-66.01	1.02	12.73	-54.30	-13.00	-41.30
5632.50	V	-60.52	1.26	13.14	-48.64	-13.00	-35.64
High CH 19150 (1905.0MHz) BW=10MHz							
3805.00	H	-65.94	1.03	12.75	-54.22	-13.00	-41.22
5709.00	H	-63.63	1.27	13.12	-51.78	-13.00	-38.78
3813.50	V	-65.25	1.03	12.74	-53.54	-13.00	-40.54
5709.00	V	-60.44	1.27	13.12	-48.59	-13.00	-35.59

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	ERIP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18650 (1855.0MHz) BW=10MHz							
3711.50	H	-66.12	1.01	12.70	-54.43	-13.00	-41.43
5564.50	H	-58.71	1.26	13.15	-46.82	-13.00	-33.82
3711.50	V	-66.98	1.01	12.70	-55.29	-13.00	-42.29
5564.50	V	-54.47	1.26	13.15	-42.58	-13.00	-29.58
Middle CH 18900 (1880.0MHz) BW=10MHz							
3762.50	H	-67.67	1.02	12.73	-55.96	-13.00	-42.96
5632.50	H	-63.64	1.26	13.14	-51.76	-13.00	-38.76
3754.00	V	-66.94	1.01	12.72	-55.23	-13.00	-42.23
5632.50	V	-60.56	1.26	13.14	-48.68	-13.00	-35.68
High CH 19150 (1905.0MHz) BW=10MHz							
3813.50	H	-67.11	1.03	12.74	-55.40	-13.00	-42.40
5709.00	H	-64.34	1.27	13.12	-52.49	-13.00	-39.49
3796.50	V	-67.01	1.03	12.75	-55.29	-13.00	-42.29
5709.00	V	-62.35	1.27	13.12	-50.50	-13.00	-37.50

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $ERIP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18675 (1857.5MHz) BW=15MHz							
3711.50	H	-65.62	1.01	12.70	-53.93	-13.00	-40.93
5573.00	H	-59.98	1.26	13.15	-48.09	-13.00	-35.09
3728.50	V	-66.30	1.02	12.71	-54.61	-13.00	-41.61
5573.00	V	-55.38	1.26	13.15	-43.49	-13.00	-30.49
Middle CH 18900 (1880.0MHz) BW=15MHz							
3754.00	H	-66.43	1.01	12.72	-54.72	-13.00	-41.72
5632.50	H	-63.52	1.26	13.14	-51.64	-13.00	-38.64
3754.00	V	-67.94	1.01	12.72	-56.23	-13.00	-43.23
5641.00	V	-61.07	1.26	13.14	-49.19	-13.00	-36.19
High CH 19125 (1902.5MHz) BW=15MHz							
3805.00	H	-66.58	1.03	12.75	-54.86	-13.00	-41.86
5700.50	H	-64.67	1.27	13.12	-52.82	-13.00	-39.82
3805.00	V	-66.22	1.03	12.75	-54.50	-13.00	-41.50
5700.50	V	-61.88	1.27	13.12	-50.03	-13.00	-37.03

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18675 (1857.5MHz) BW=15MHz							
3711.50	H	-66.68	1.01	12.70	-54.99	-13.00	-41.99
5581.50	H	-60.15	1.27	13.15	-48.27	-13.00	-35.27
3720.00	V	-65.34	1.02	12.70	-53.66	-13.00	-40.66
5564.50	V	-56.09	1.26	13.15	-44.20	-13.00	-31.20
Middle CH 18900 (1880.0MHz) BW=15MHz							
3754.00	H	-67.85	1.01	12.72	-56.14	-13.00	-43.14
5632.50	H	-64.37	1.26	13.14	-52.49	-13.00	-39.49
3728.50	V	-67.38	1.02	12.71	-55.69	-13.00	-42.69
5632.50	V	-61.14	1.26	13.14	-49.26	-13.00	-36.26
High CH 19125 (1902.5MHz) BW=15MHz							
3813.50	H	-67.67	1.03	12.74	-55.96	-13.00	-42.96
5700.50	H	-64.60	1.27	13.12	-52.75	-13.00	-39.75
3805.00	V	-66.60	1.03	12.75	-54.88	-13.00	-41.88
5709.00	V	-61.96	1.27	13.12	-50.11	-13.00	-37.11

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18700 (1860.0MHz) BW=20MHz							
3703.00	H	-66.52	1.01	12.69	-54.84	-13.00	-41.84
5590.00	H	-60.61	1.28	13.15	-48.74	-13.00	-35.74
3728.50	V	-67.04	1.02	12.71	-55.35	-13.00	-42.35
5573.00	V	-56.60	1.26	13.15	-44.71	-13.00	-31.71
Middle CH 18900 (1880.0MHz) BW=20MHz							
3754.00	H	-66.95	1.01	12.72	-55.24	-13.00	-42.24
5632.50	H	-64.28	1.26	13.14	-52.40	-13.00	-39.40
3975.00	V	-66.69	1.04	12.62	-55.11	-13.00	-42.11
5632.50	V	-61.26	1.26	13.14	-49.38	-13.00	-36.38
High CH 19100 (1900.0MHz) BW=20MHz							
3805.00	H	-66.68	1.03	12.75	-54.96	-13.00	-41.96
5700.50	H	-64.76	1.27	13.12	-52.91	-13.00	-39.91
3805.00	V	-66.61	1.03	12.75	-54.89	-13.00	-41.89
5683.50	V	-61.92	1.27	13.13	-50.06	-13.00	-37.06

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 2 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 18700 (1860.0MHz) BW=20MHz							
3711.50	H	-67.60	1.01	12.70	-55.91	-13.00	-42.91
5581.50	H	-61.96	1.27	13.15	-50.08	-13.00	-37.08
3711.50	V	-67.39	1.01	12.70	-55.70	-13.00	-42.70
5581.50	V	-57.60	1.27	13.15	-45.72	-13.00	-32.72
Middle CH 18900 (1880.0MHz) BW=20MHz							
3805.00	H	-67.35	1.03	12.75	-55.63	-13.00	-42.63
5624.00	H	-63.38	1.25	13.14	-51.49	-13.00	-38.49
3796.50	V	-67.64	1.03	12.75	-55.92	-13.00	-42.92
5624.00	V	-61.01	1.25	13.14	-49.12	-13.00	-36.12
High CH 19100 (1900.0MHz) BW=20MHz							
3805.00	H	-67.98	1.03	12.75	-56.26	-13.00	-43.26
5700.50	H	-64.92	1.27	13.12	-53.07	-13.00	-40.07
3796.50	V	-66.92	1.03	12.75	-55.20	-13.00	-42.20
5700.50	V	-62.20	1.27	13.12	-50.35	-13.00	-37.35

Notes:

- Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- $EIRP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19957 (1710.7MHz) BW=1.4MHz							
3541.50	H	-68.03	0.98	12.59	-56.42	-13.00	-43.42
5131.00	H	-64.05	1.20	12.79	-52.46	-13.00	-39.46
3881.50	V	-66.89	1.03	12.69	-55.23	-13.00	-42.23
5615.50	V	-64.25	1.26	13.15	-52.36	-13.00	-39.36
Middle CH 20175 (1732.5MHz) BW=1.4MHz							
3490.50	H	-68.99	0.97	12.64	-57.32	-13.00	-44.32
5199.00	H	-63.99	1.21	12.86	-52.34	-13.00	-39.34
3439.50	V	-69.49	0.96	12.82	-57.63	-13.00	-44.63
5199.00	V	-63.10	1.21	12.86	-51.45	-13.00	-38.45
High CH 20393 (1754.3MHz) BW=1.4MHz							
3473.50	H	-69.27	0.97	12.70	-57.54	-13.00	-44.54
5258.50	H	-65.33	1.22	12.94	-53.61	-13.00	-40.61
3482.00	V	-68.20	0.97	12.67	-56.50	-13.00	-43.50
5258.50	V	-64.21	1.22	12.94	-52.49	-13.00	-39.49

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19957 (1710.7MHz) BW=1.4MHz							
3465.00	H	-70.18	0.97	12.73	-58.42	-13.00	-45.42
5131.00	H	-64.63	1.20	12.79	-53.04	-13.00	-40.04
3448.00	V	-68.96	0.97	12.79	-57.14	-13.00	-44.14
5131.00	V	-63.05	1.20	12.79	-51.46	-13.00	-38.46
Middle CH 20175 (1732.5MHz) BW=1.4MHz							
3380.00	H	-69.66	0.96	12.92	-57.70	-13.00	-44.70
5199.00	H	-64.01	1.21	12.86	-52.36	-13.00	-39.36
3592.50	V	-68.81	0.99	12.56	-57.24	-13.00	-44.24
5199.00	V	-63.05	1.21	12.86	-51.40	-13.00	-38.40
High CH 20393 (1754.3MHz) BW=1.4MHz							
3703.00	H	-67.76	1.01	12.69	-56.08	-13.00	-43.08
5267.00	H	-65.34	1.21	12.95	-53.60	-13.00	-40.60
3490.50	V	-68.88	0.97	12.64	-57.21	-13.00	-44.21
5267.00	V	-62.68	1.21	12.95	-50.94	-13.00	-37.94

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19965 (1711.5MHz) BW=3MHz							
3482.00	H	-68.14	0.97	12.67	-56.44	-13.00	-43.44
5156.50	H	-65.94	1.21	12.81	-54.34	-13.00	-41.34
3516.00	V	-68.45	0.98	12.60	-56.83	-13.00	-43.83
5114.00	V	-63.67	1.20	12.77	-52.10	-13.00	-39.10
Middle CH 20175 (1732.5MHz) BW=3MHz							
3856.00	H	-67.20	1.03	12.71	-55.52	-13.00	-42.52
5097.00	H	-64.68	1.20	12.75	-53.13	-13.00	-40.13
4009.00	V	-66.28	1.05	12.60	-54.73	-13.00	-41.73
5199.00	V	-62.38	1.21	12.86	-50.73	-13.00	-37.73
High CH 20385 (1753.5MHz) BW=3MHz							
3694.50	H	-67.88	1.01	12.68	-56.21	-13.00	-43.21
4646.50	H	-65.41	1.14	12.61	-53.94	-13.00	-40.94
3694.50	V	-67.23	1.01	12.68	-55.56	-13.00	-42.56
5063.00	V	-63.69	1.20	12.72	-52.17	-13.00	-39.17

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19965 (1711.5MHz) BW=3MHz							
3694.50	H	-67.76	1.01	12.68	-56.09	-13.00	-43.09
5003.50	H	-64.75	1.19	12.66	-53.28	-13.00	-40.28
3720.00	V	-66.68	1.02	12.70	-55.00	-13.00	-42.00
5080.00	V	-63.90	1.20	12.73	-52.37	-13.00	-39.37
Middle CH 20175 (1732.5MHz) BW=3MHz							
3796.50	H	-67.52	1.03	12.75	-55.80	-13.00	-42.80
5199.00	H	-64.07	1.21	12.86	-52.42	-13.00	-39.42
3507.50	V	-68.62	0.98	12.61	-56.99	-13.00	-43.99
5190.50	V	-64.14	1.20	12.85	-52.49	-13.00	-39.49
High CH 20385 (1753.5MHz) BW=3MHz							
3762.50	H	-67.63	1.02	12.73	-55.92	-13.00	-42.92
4646.50	H	-65.67	1.14	12.61	-54.20	-13.00	-41.20
3652.00	V	-67.66	1.02	12.63	-56.05	-13.00	-43.05
4400.00	V	-66.25	1.11	12.71	-54.65	-13.00	-41.65

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19975 (1712.5MHz) BW=5MHz							
3609.50	H	-68.10	0.99	12.57	-56.52	-13.00	-43.52
4621.00	H	-66.53	1.14	12.64	-55.03	-13.00	-42.03
3975.00	V	-66.65	1.04	12.62	-55.07	-13.00	-42.07
4638.00	V	-65.29	1.14	12.62	-53.81	-13.00	-40.81
Middle CH 20175 (1732.5MHz) BW=5MHz							
3694.50	H	-66.84	1.01	12.68	-55.17	-13.00	-42.17
4808.00	H	-65.37	1.16	12.58	-53.95	-13.00	-40.95
3533.00	V	-68.19	0.98	12.59	-56.58	-13.00	-43.58
4391.50	V	-66.40	1.11	12.62	-54.89	-13.00	-41.89
High CH 20375 (1752.5MHz) BW=5MHz							
3686.00	H	-67.93	1.01	12.67	-56.27	-13.00	-43.27
4578.50	H	-66.00	1.13	12.66	-54.47	-13.00	-41.47
3694.50	V	-67.72	1.01	12.68	-56.05	-13.00	-43.05
4349.00	V	-65.97	1.10	12.72	-54.35	-13.00	-41.35

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 19975 (1712.5MHz) BW=5MHz							
3694.50	H	-68.26	1.01	12.68	-56.59	-13.00	-43.59
5131.00	H	-64.21	1.20	12.79	-52.62	-13.00	-39.62
3754.00	V	-67.79	1.01	12.72	-56.08	-13.00	-43.08
4629.50	V	-64.58	1.14	12.63	-53.09	-13.00	-40.09
Middle CH 20175 (1732.5MHz) BW=5MHz							
3694.50	H	-67.54	1.01	12.68	-55.87	-13.00	-42.87
5080.00	H	-65.16	1.20	12.73	-53.63	-13.00	-40.63
3805.00	V	-67.17	1.03	12.75	-55.45	-13.00	-42.45
5199.00	V	-63.29	1.21	12.86	-51.64	-13.00	-38.64
High CH 20375 (1752.5MHz) BW=5MHz							
3686.00	H	-68.00	1.01	12.67	-56.34	-13.00	-43.34
4638.00	H	-64.95	1.14	12.62	-53.47	-13.00	-40.47
3660.50	V	-67.68	1.02	12.64	-56.06	-13.00	-43.06
4604.00	V	-65.29	1.15	12.66	-53.78	-13.00	-40.78

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20000 (1715.0MHz) BW=10MHz							
3652.00	H	-67.53	1.02	12.63	-55.92	-13.00	-42.92
4629.50	H	-66.10	1.14	12.63	-54.61	-13.00	-41.61
3796.50	V	-66.41	1.03	12.75	-54.69	-13.00	-41.69
4638.00	V	-65.04	1.14	12.62	-53.56	-13.00	-40.56
Middle CH 20175 (1732.5MHz) BW=10MHz							
3652.00	H	-68.44	1.02	12.63	-56.83	-13.00	-43.83
4646.50	H	-65.65	1.14	12.61	-54.18	-13.00	-41.18
3626.50	V	-67.99	1.00	12.60	-56.39	-13.00	-43.39
4357.50	V	-65.24	1.10	12.72	-53.62	-13.00	-40.62
High CH 20350 (1750.0MHz) BW=10MHz							
3652.00	H	-68.22	1.02	12.63	-56.61	-13.00	-43.61
4842.00	H	-64.71	1.15	12.59	-53.27	-13.00	-40.27
3652.00	V	-67.73	1.02	12.63	-56.12	-13.00	-43.12
4298.00	V	-65.95	1.09	12.73	-54.31	-13.00	-41.31

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20000 (1715.0MHz) BW=10MHz							
3898.50	H	-67.04	1.03	12.67	-55.40	-13.00	-42.40
4808.00	H	-64.60	1.16	12.58	-53.18	-13.00	-40.18
3694.50	V	-67.97	1.01	12.68	-56.30	-13.00	-43.30
4612.50	V	-65.20	1.14	12.65	-53.69	-13.00	-40.69
Middle CH 20175 (1732.5MHz) BW=10MHz							
3686.00	H	-68.02	1.01	12.67	-56.36	-13.00	-43.36
4646.50	H	-64.87	1.14	12.61	-53.40	-13.00	-40.40
3805.00	V	-67.45	1.03	12.75	-55.73	-13.00	-42.73
5088.50	V	-62.96	1.20	12.74	-51.42	-13.00	-38.42
High CH 20350 (1750.0MHz) BW=10MHz							
3745.50	H	-67.48	1.01	12.72	-55.77	-13.00	-42.77
4646.50	H	-65.08	1.14	12.61	-53.61	-13.00	-40.61
3822.00	V	-67.01	1.03	12.73	-55.31	-13.00	-42.31
5088.50	V	-64.07	1.20	12.74	-52.53	-13.00	-39.53

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20025 (1717.5MHz) BW=15MHz							
3652.00	H	-67.91	1.02	12.63	-56.30	-13.00	-43.30
5131.00	H	-64.89	1.20	12.78	-53.31	-13.00	-40.31
3635.00	V	-67.65	1.01	12.61	-56.05	-13.00	-43.05
4561.50	V	-65.96	1.13	12.66	-54.43	-13.00	-41.43
Middle CH 20175 (1732.5MHz) BW=15MHz							
3694.50	H	-67.63	1.03	12.68	-55.98	-13.00	-42.98
4400.00	H	-66.25	1.11	12.71	-54.65	-13.00	-41.65
3745.50	V	-66.92	1.01	12.72	-55.21	-13.00	-42.21
4646.50	V	-64.64	1.14	12.61	-53.17	-13.00	-40.17
High CH 20325 (1747.5MHz) BW=15MHz							
4077.00	H	-67.45	1.06	12.62	-55.89	-13.00	-42.89
5139.50	H	-65.06	1.21	12.80	-53.47	-13.00	-40.47
3652.00	V	-67.82	1.02	12.63	-56.21	-13.00	-43.21
4629.50	V	-65.40	1.14	12.63	-53.91	-13.00	-40.91

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20025 (1717.5MHz) BW=15MHz							
3541.50	H	-68.51	0.98	12.61	-56.88	-13.00	-43.88
4680.50	H	-66.43	1.15	12.58	-55.00	-13.00	-42.00
3864.50	V	-67.57	1.03	12.70	-55.90	-13.00	-42.90
4638.00	V	-65.19	1.14	12.62	-53.71	-13.00	-40.71
Middle CH 20175 (1732.5MHz) BW=15MHz							
3703.00	H	-67.03	1.01	12.69	-55.35	-13.00	-42.35
5080.00	H	-64.79	1.20	12.73	-53.26	-13.00	-40.26
3652.00	V	-66.99	1.02	12.63	-55.38	-13.00	-42.38
4604.00	V	-64.96	1.15	12.66	-53.45	-13.00	-40.45
High CH 20325 (1747.5MHz) BW=15MHz							
3677.50	H	-67.53	1.01	12.66	-55.88	-13.00	-42.88
4655.00	H	-66.19	1.14	12.61	-54.72	-13.00	-41.72
3550.00	V	-68.98	0.98	12.59	-57.37	-13.00	-44.37
4340.50	V	-66.58	1.10	12.72	-54.96	-13.00	-41.96

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20050 (1720.0MHz) BW=20MHz							
3864.50	H	-67.22	1.03	12.70	-55.55	-13.00	-42.55
5088.50	H	-65.00	1.20	12.74	-53.46	-13.00	-40.46
3541.50	V	-68.43	0.98	12.59	-56.82	-13.00	-43.82
5080.00	V	-64.07	1.20	12.73	-52.54	-13.00	-39.54
Middle CH 20175 (1732.5MHz) BW=20MHz							
3864.50	H	-66.56	1.03	12.70	-54.89	-13.00	-41.89
4808.00	H	-65.16	1.16	12.58	-53.74	-13.00	-40.74
4017.50	V	-65.81	1.05	12.61	-54.25	-13.00	-41.25
5097.00	V	-63.69	1.20	12.75	-52.14	-13.00	-39.14
High CH 20300 (1745.0MHz) BW=20MHz							
3635.00	H	-68.32	1.01	12.61	-56.72	-13.00	-43.72
4663.50	H	-66.30	1.15	12.59	-54.86	-13.00	-41.86
3660.50	V	-67.76	1.02	12.64	-56.14	-13.00	-43.14
4655.00	V	-62.10	1.14	9.82	-53.42	-13.00	-40.42

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 4 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20050 (1720.0MHz) BW=20MHz							
3881.50	H	-67.49	1.03	12.69	-55.83	-13.00	-42.83
5114.00	H	-65.06	1.20	12.77	-53.49	-13.00	-40.49
3686.00	V	-67.36	1.01	12.67	-55.70	-13.00	-42.70
4604.00	V	-65.18	1.15	12.66	-53.67	-13.00	-40.67
Middle CH 20175 (1732.5MHz) BW=20MHz							
3652.00	H	-67.54	1.02	12.63	-55.93	-13.00	-42.93
4595.50	H	-66.55	1.14	12.66	-55.03	-13.00	-42.03
4145.00	V	-66.15	1.08	12.66	-54.57	-13.00	-41.57
5071.50	V	-63.82	1.20	12.73	-52.29	-13.00	-39.29
High CH 20300 (1745.0MHz) BW=20MHz							
3881.50	H	-67.44	1.03	12.69	-55.78	-13.00	-42.78
5080.00	H	-65.27	1.20	12.73	-53.74	-13.00	-40.74
3652.00	V	-67.63	1.02	12.63	-56.02	-13.00	-43.02
4357.50	V	-65.63	1.10	12.72	-54.01	-13.00	-41.01

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20775 (2502.5MHz) BW=5MHz							
5003.50	H	-64.20	1.19	12.66	-52.73	-13.00	-39.73
7511.00	H	-55.24	1.47	11.26	-45.45	-13.00	-32.45
5003.50	V	-64.18	1.19	12.66	-52.71	-13.00	-39.71
7553.50	V	-57.12	1.48	11.36	-47.24	-13.00	-34.24
Middle CH 21100 (2535.0MHz) BW=5MHz							
5071.50	H	-64.62	1.20	12.73	-53.09	-13.00	-40.09
7604.50	H	-52.26	1.48	11.46	-42.28	-13.00	-29.28
5088.50	V	-64.03	1.20	12.74	-52.49	-13.00	-39.49
7604.50	V	-55.78	1.48	11.46	-45.80	-13.00	-32.80
High CH 21425 (2567.5MHz) BW=5MHz							
5131.00	H	-65.03	1.20	12.79	-53.44	-13.00	-40.44
7706.50	H	-51.89	1.53	11.45	-41.97	-13.00	-28.97
5131.00	V	-63.05	1.20	12.79	-51.46	-13.00	-38.46
7706.50	V	-54.21	1.53	11.45	-44.29	-13.00	-31.29

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20775 (2502.5MHz) BW=5MHz							
5003.50	H	-65.39	1.19	12.66	-53.92	-13.00	-40.92
7511.00	H	-55.45	1.47	11.26	-45.66	-13.00	-32.66
5071.50	V	-64.04	1.20	12.73	-52.51	-13.00	-39.51
7511.00	V	-56.26	1.47	11.26	-46.47	-13.00	-33.47
Middle CH 21100 (2535.0MHz) BW=5MHz							
5071.50	H	-64.58	1.20	12.73	-53.05	-13.00	-40.05
7604.50	H	-52.23	1.48	11.46	-42.25	-13.00	-29.25
5105.50	V	-63.88	1.20	12.76	-52.32	-13.00	-39.32
7604.50	V	-55.22	1.48	11.46	-45.24	-13.00	-32.24
High CH 21425 (2567.5MHz) BW=5MHz							
5131.00	H	-64.50	1.20	12.79	-52.91	-13.00	-39.91
7706.50	H	-52.51	1.53	11.45	-42.59	-13.00	-29.59
5131.00	V	-64.20	1.20	12.79	-52.61	-13.00	-39.61
7706.50	V	-53.90	1.53	11.45	-43.98	-13.00	-30.98

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20800 (2505.0MHz) BW=10MHz							
5080.00	H	-65.34	1.20	12.73	-53.81	-13.00	-40.81
7511.00	H	-56.02	1.47	11.26	-46.23	-13.00	-33.23
5097.00	V	-64.06	1.20	12.75	-52.51	-13.00	-39.51
7519.50	V	-55.82	1.47	11.28	-46.01	-13.00	-33.01
Middle CH 21100 (2535.0MHz) BW=10MHz							
5071.50	H	-64.58	1.20	12.73	-53.05	-13.00	-40.05
7604.50	H	-54.35	1.48	11.46	-44.37	-13.00	-31.37
5071.50	V	-63.46	1.20	12.73	-51.93	-13.00	-38.93
7604.50	V	-56.42	1.48	11.46	-46.44	-13.00	-33.44
High CH 21400 (2565.0MHz) BW=10MHz							
5131.00	H	-64.91	1.20	12.79	-53.32	-13.00	-40.32
7689.50	H	-53.98	1.53	11.45	-44.06	-13.00	-31.06
5131.00	V	-64.59	1.20	12.79	-53.00	-13.00	-40.00
7698.00	V	-55.49	1.55	11.45	-45.59	-13.00	-32.59

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20800 (2505.0MHz) BW=10MHz							
5012.00	H	-65.37	1.19	12.66	-53.90	-13.00	-40.90
7604.50	H	-57.19	1.48	11.46	-47.21	-13.00	-34.21
5080.00	V	-63.23	1.20	12.73	-51.70	-13.00	-38.70
7035.00	V	-58.87	1.41	11.51	-48.77	-13.00	-35.77
Middle CH 21100 (2535.0MHz) BW=10MHz							
5046.00	H	-64.82	1.19	12.70	-53.31	-13.00	-40.31
7604.50	H	-55.18	1.48	11.46	-45.20	-13.00	-32.20
5114.00	V	-64.36	1.20	12.77	-52.79	-13.00	-39.79
7604.50	V	-56.05	1.48	11.46	-46.07	-13.00	-33.07
High CH 21400 (2565.0MHz) BW=10MHz							
5156.50	H	-65.25	1.21	12.81	-53.65	-13.00	-40.65
7689.50	H	-54.40	1.53	11.45	-44.48	-13.00	-31.48
5071.50	V	-63.53	1.20	12.73	-52.00	-13.00	-39.00
7528.00	V	-56.34	1.47	11.30	-46.51	-13.00	-33.51

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20825 (2507.5MHz) BW=15MHz							
5088.50	H	-65.65	1.20	12.74	-54.11	-13.00	-41.11
7528.00	H	-56.97	1.47	11.30	-47.14	-13.00	-34.14
5012.00	V	-64.36	1.19	12.66	-52.89	-13.00	-39.89
7511.00	V	-56.74	1.48	11.26	-46.96	-13.00	-33.96
Middle CH 21100 (2535.0MHz) BW=15MHz							
5080.00	H	-64.70	1.20	12.73	-53.17	-13.00	-40.17
7604.50	H	-55.59	1.48	11.46	-45.61	-13.00	-32.61
5071.50	V	-63.71	1.20	12.73	-52.18	-13.00	-39.18
7502.50	V	-56.80	1.47	11.24	-47.03	-13.00	-34.03
High CH 21375 (2562.5MHz) BW=15MHz							
5131.00	H	-64.94	1.20	12.79	-53.35	-13.00	-40.35
7689.50	H	-54.48	1.53	11.45	-44.56	-13.00	-31.56
5037.50	V	-63.95	1.19	12.69	-52.45	-13.00	-39.45
7672.50	V	-56.25	1.49	11.45	-46.29	-13.00	-33.29

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20825 (2507.5MHz) BW=15MHz							
5156.50	H	-65.64	1.21	12.81	-54.04	-13.00	-41.04
7519.50	H	-57.20	1.47	11.28	-47.39	-13.00	-34.39
5139.50	V	-63.98	1.21	12.80	-52.39	-13.00	-39.39
7579.00	V	-56.85	1.47	11.41	-46.91	-13.00	-33.91
Middle CH 21100 (2535.0MHz) BW=15MHz							
5063.00	H	-64.90	1.20	12.72	-53.38	-13.00	-40.38
7604.50	H	-56.35	1.48	11.46	-46.37	-13.00	-33.37
5088.50	V	-63.59	1.20	12.74	-52.05	-13.00	-39.05
7502.50	V	-57.01	1.47	11.24	-47.24	-13.00	-34.24
High CH 21375 (2562.5MHz) BW=15MHz							
5097.00	H	-65.14	1.20	12.75	-53.59	-13.00	-40.59
7681.00	H	-54.89	1.51	11.45	-44.95	-13.00	-31.95
5080.00	V	-64.34	1.20	12.73	-52.81	-13.00	-39.81
7664.00	V	-56.72	1.47	11.45	-46.74	-13.00	-33.74

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

LTE Band 7 / QPSK							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20850 (2510.0MHz) BW=20MHz							
5088.50	H	-65.37	1.20	12.74	-53.83	-13.00	-40.83
7528.00	H	-56.93	1.47	11.30	-47.10	-13.00	-34.10
5029.00	V	-64.55	1.19	12.68	-53.06	-13.00	-40.06
7587.50	V	-57.51	1.47	11.43	-47.55	-13.00	-34.55
Middle CH 21100 (2535.0MHz) BW=20MHz							
5071.50	H	-64.86	1.20	12.73	-53.33	-13.00	-40.33
7604.50	H	-56.26	1.48	11.46	-46.28	-13.00	-33.28
5063.00	V	-64.45	1.20	12.72	-52.93	-13.00	-39.93
7587.50	V	-57.02	1.47	11.43	-47.06	-13.00	-34.06
High CH 21350 (2560.0MHz) BW=20MHz							
5105.50	H	-65.64	1.20	12.76	-54.08	-13.00	-41.08
7672.50	H	-55.94	1.49	11.45	-45.98	-13.00	-32.98
5088.50	V	-63.56	1.20	12.74	-52.02	-13.00	-39.02
7681.00	V	-56.55	1.51	11.45	-46.61	-13.00	-33.61

Notes:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$.

LTE Band 7 / 16QAM							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low CH 20850 (2510.0MHz) BW=20MHz							
5080.00	H	-65.19	1.20	12.73	-53.66	-13.00	-40.66
7519.50	H	-57.04	1.47	11.28	-47.23	-13.00	-34.23
5020.50	V	-63.48	1.19	12.67	-52.00	-13.00	-39.00
7511.00	V	-55.93	1.47	11.26	-46.14	-13.00	-33.14
Middle CH 21100 (2535.0MHz) BW=20MHz							
5088.50	H	-64.54	1.20	12.74	-53.00	-13.00	-40.00
7613.00	H	-56.27	1.49	11.46	-46.30	-13.00	-33.30
5063.00	V	-64.04	1.20	12.72	-52.52	-13.00	-39.52
7502.50	V	-56.51	1.47	11.24	-46.74	-13.00	-33.74
High CH 21350 (2560.0MHz) BW=20MHz							
5114.00	H	-65.35	1.20	12.77	-53.78	-13.00	-40.78
7672.50	H	-55.00	1.49	11.45	-45.04	-13.00	-32.04
5088.50	V	-63.49	1.20	12.74	-51.95	-13.00	-38.95
7681.00	V	-55.46	1.51	11.45	-45.52	-13.00	-32.52

Notes:

- Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- $EIRP\ (dBm) = SG\ Reading\ (dBm) - Cable\ Loss\ (dB) + Substitute\ Antenna\ Gain\ (dBi)$.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Mobile Computer** compliance with all the requirements of Parts 2, 22, 24, 27 of the FCC Rules.

The End
