



FCC RF Test Report

APPLICANT : Ness Corporation Pty Ltd.
EQUIPMENT : Medi-Minder Guardian
BRAND NAME : Smartlink (A division of Ness Corporation Pty Ltd.)
MODEL NAME : SMIND-GUARD-LTE
FCC ID : O2K-SMINDLTE
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Aug. 28, 2020 and completely tested on Sep. 13, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG082803B	Rev. 01	Initial issue of report	Oct. 13, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt	PASS	
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	< 43+10log10(P[Watts])	PASS	1
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	< 43+10log10(P[Watts])	PASS	1
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 10.94 dB at 1564.500 MHz

Remark 1: The product was installed a RF module (Brand Name: Telit, Model Name: LE910B1-NA, FCC ID: RI7LE910NAV2), the test items are referred to module report "1506FR21-01".

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Ness Corporation Pty Ltd.

4/167 Prospect Highway, Seven Hills, NSW, 2147, Australia

1.2 Manufacturer

Ness Corporation Pty Ltd.

4/167 Prospect Highway, Seven Hills, NSW, 2147, Australia

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Medi-Minder Guardian
Brand Name	Smartlink (A division of Ness Corporation Pty Ltd.)
Model Name	SMIND-GUARD-LTE
FCC ID	O2K-SMINDLTE
EUT supports Radios application	WCDMA/LTE/SRD
IMEI Code	Radiation: 355285089993750
HW Version	5
SW Version	1.5
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.18 dBm LTE Band 4 : 22.08 dBm



	LTE Band 5 : 22.23 dBm LTE Band 12 : 22.24 dBm LTE Band 13 : 22.21 dBm
Antenna Gain	LTE Band 2 : 2.0 dBi LTE Band 4 : 2.0 dBi LTE Band 5 : 2.0 dBi LTE Band 12 : 2.0 dBi LTE Band 13 : 2.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP, Frequency Tolerance, and Emission Designator

LTE Band 2		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	0.2559	0.1972
3	1851.5 ~ 1908.5	0.2449	0.2228
5	1852.5 ~ 1907.5	0.2339	0.2009
10	1855.0 ~ 1905.0	0.2477	0.2133
15	1857.5 ~ 1902.5	0.2606	0.2254
20	1860.0 ~ 1900.0	0.2618	0.2366
LTE Band 4		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	0.2259	0.1866
3	1711.5 ~ 1753.5	0.2307	0.2061
5	1712.5 ~ 1752.5	0.2168	0.1897
10	1715.0 ~ 1750.0	0.2296	0.1991
15	1717.5 ~ 1747.5	0.2382	0.2084
20	1720.0 ~ 1745.0	0.2559	0.2056
LTE Band 5		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	824.7 ~ 848.3	0.1560	0.1337
3	825.5 ~ 847.5	0.1556	0.1371
5	826.5 ~ 846.5	0.1596	0.1380
10	829.0 ~ 844.0	0.1614	0.1406



LTE Band 12		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	699.7 ~ 715.3	0.1556	0.1352
3	700.5 ~ 714.5	0.1570	0.1352
5	701.5 ~ 713.5	0.1614	0.1403
10	704.0 ~ 711.0	0.1618	0.1390
LTE Band 13		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
5	779.5 ~ 784.5	0.1574	0.1343
10	782.0	0.1607	0.1306

1.7 Testing Location

<FCC>-SZ

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24



1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

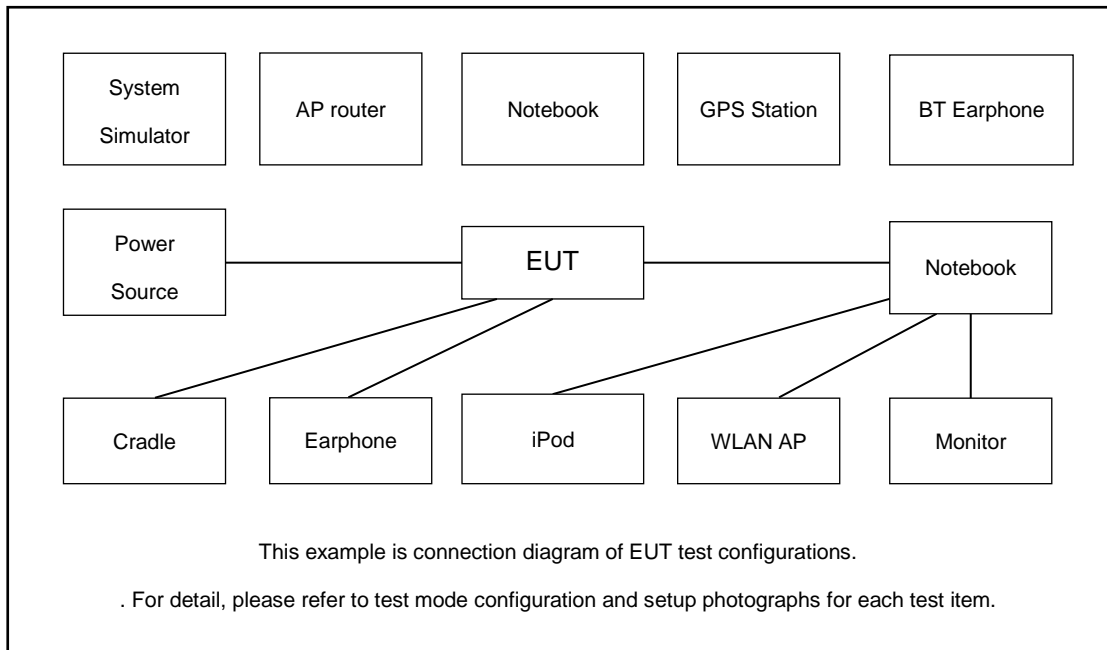
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	-	v			v	v	v
	4	v	v	v	v	v	v	v	v	-	v			v	v	v
	5	v	v	v	v	-	-	v	v	-	v			v	v	v
	12	v	v	v	v	-	-	v	v	-	v			v	v	v
	13	-	-	v	v	-	-	v	v	-	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v			v			v			v	v	v
	12	v	v	v	v			v			v			v	v	v
	13			v	v			v			v			v	v	v
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

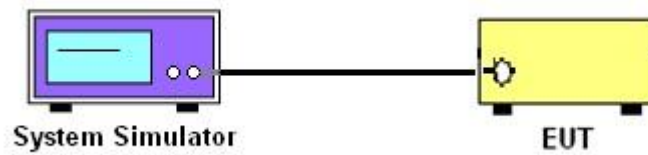
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

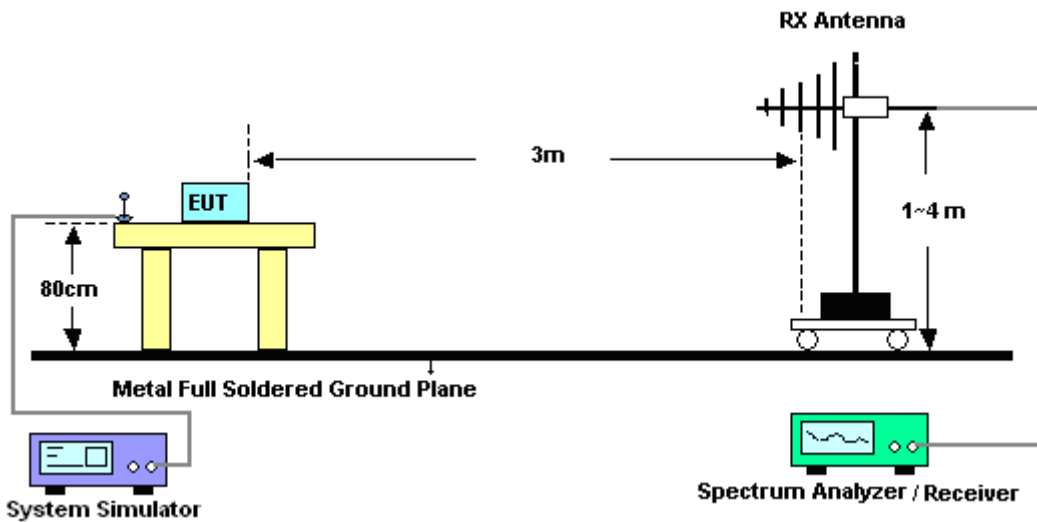
4 Radiated Test Items

4.1 Measuring Instruments

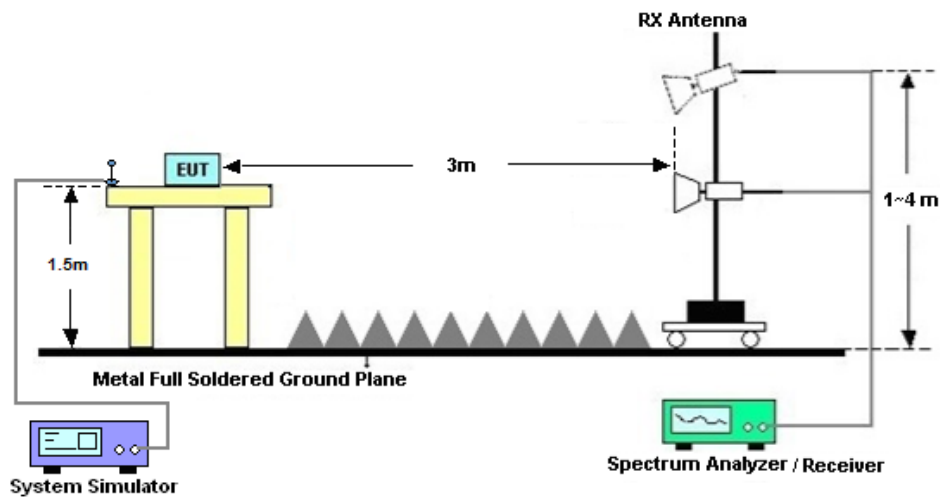
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Sep. 08, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 26, 2019	Sep. 08, 2020	Dec. 25, 2020	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 16, 2019	Sep. 13, 2020	Oct. 15, 2020	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Sep. 13, 2020	Jul. 20, 2021	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Nov. 07, 2019	Sep. 13, 2020	Nov. 06, 2020	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	May. 23, 2020	Sep. 13, 2020	Mar. 22, 2021	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 26, 2020	Sep. 13, 2020	Jul. 25, 2021	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 17, 2019	Sep. 13, 2020	Oct. 16, 2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 17, 2019	Sep. 13, 2020	Oct. 16, 2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Sep. 13, 2020	Jul. 20, 2021	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 17, 2019	Sep. 13, 2020	Oct. 16, 2020	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Sep. 13, 2020	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 13, 2020	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 13, 2020	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.00	22.02	22.18
20	1	49		21.27	21.42	21.46
20	1	99		21.25	21.26	21.36
20	50	0		20.72	20.93	20.95
20	50	24		20.43	20.60	20.62
20	50	50		20.50	20.55	20.63
20	100	0		20.56	20.78	20.73
20	1	0	16-QAM	21.44	21.74	21.11
20	1	49		20.60	20.94	21.21
20	1	99		20.35	20.54	21.00
20	50	0		19.80	20.09	19.98
20	50	24		19.59	19.67	19.55
20	50	50		19.54	19.67	19.77
20	100	0		19.53	19.84	19.77
15	1	0	QPSK	22.00	22.05	22.16
15	1	37		21.41	21.40	21.63
15	1	74		21.49	21.46	21.63
15	36	0		20.74	20.88	20.87
15	36	20		20.41	20.59	20.69
15	36	39		20.44	20.58	20.68
15	75	0		20.53	20.76	20.80
15	1	0	16-QAM	21.30	21.37	21.53
15	1	37		20.69	20.76	21.04
15	1	74		20.82	20.79	21.00
15	36	0		19.77	19.92	19.97
15	36	20		19.48	19.65	19.76
15	36	39		19.50	19.61	19.74
15	75	0		19.59	19.74	19.82



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.75	21.84	21.94
10	1	25		21.33	21.42	21.56
10	1	49		21.38	21.45	21.62
10	25	0		21.01	20.72	20.83
10	25	12		20.41	20.57	20.71
10	25	25		20.34	20.54	20.70
10	50	0		20.46	20.66	20.80
10	1	0	16-QAM	21.08	21.17	21.29
10	1	25		20.72	20.77	20.97
10	1	49		20.75	20.76	20.97
10	25	0		19.63	19.81	19.93
10	25	12		19.46	19.62	19.78
10	25	25		19.40	19.58	19.77
10	50	0		19.52	19.70	19.82
5	1	0	QPSK	21.53	21.59	21.69
5	1	12		21.43	21.52	21.69
5	1	24		21.30	21.43	21.58
5	12	0		20.56	20.66	20.75
5	12	7		20.40	20.57	20.68
5	12	13		20.36	20.54	20.63
5	25	0		20.42	20.58	20.71
5	1	0	16-QAM	20.84	20.87	21.03
5	1	12		20.66	20.79	20.94
5	1	24		20.62	20.71	20.95
5	12	0		19.61	19.71	19.82
5	12	7		19.53	19.62	19.76
5	12	13		19.44	19.55	19.69
5	25	0		19.50	19.64	19.80



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.70	21.79	21.89
3	1	8		21.28	21.37	21.51
3	1	14		21.33	21.40	21.57
3	8	0		21.06	20.67	20.78
3	8	4		20.36	20.52	20.66
3	8	7		20.29	20.49	20.65
3	15	0		20.41	20.61	20.75
3	1	0	16-QAM	21.25	21.32	21.48
3	1	8		20.64	20.71	20.99
3	1	14		20.77	20.74	20.95
3	8	0		19.72	19.87	19.92
3	8	4		19.43	19.60	19.71
3	8	7		19.45	19.56	19.69
3	15	0		19.54	19.69	19.77
1.4	1	0	QPSK	21.92	21.97	22.08
1.4	1	3		21.33	21.32	21.55
1.4	1	5		21.41	21.38	21.55
1.4	3	0		20.66	20.80	20.79
1.4	3	1		20.33	20.51	20.61
1.4	3	3		20.36	20.50	20.60
1.4	6	0		20.45	20.68	20.72
1.4	1	0	16-QAM	20.76	20.79	20.95
1.4	1	3		20.58	20.71	20.86
1.4	1	5		20.54	20.63	20.87
1.4	3	0		19.53	19.63	19.74
1.4	3	1		19.45	19.54	19.68
1.4	3	3		19.36	19.47	19.61
1.4	6	0		19.42	19.56	19.72



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	21.95	22.08	21.98
20	1	49		21.44	21.37	21.43
20	1	99		21.09	21.30	21.19
20	50	0		20.55	20.66	20.64
20	50	24		20.31	20.34	20.38
20	50	50		20.16	20.22	20.25
20	100	0		20.33	20.45	20.48
20	1	0	16-QAM	21.13	21.08	20.94
20	1	49		20.55	20.45	20.51
20	1	99		20.29	20.34	20.09
20	50	0		19.60	19.63	19.66
20	50	24		19.35	19.40	19.41
20	50	50		19.27	19.29	19.25
20	100	0		19.35	19.48	19.46
15	1	0	QPSK	21.77	21.73	21.76
15	1	37		21.27	21.28	21.28
15	1	74		21.19	21.18	21.11
15	36	0		20.61	20.61	20.65
15	36	20		20.40	20.34	20.38
15	36	39		20.31	20.30	20.33
15	75	0		20.46	20.44	20.50
15	1	0	16-QAM	21.19	21.13	21.16
15	1	37		20.62	20.68	20.57
15	1	74		20.58	20.60	20.49
15	36	0		19.60	19.74	19.78
15	36	20		19.45	19.47	19.50
15	36	39		19.28	19.40	19.43
15	75	0		19.49	19.55	19.57



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.51	21.60	21.61
10	1	25		21.25	21.22	21.25
10	1	49		21.12	21.17	21.15
10	25	0		20.45	20.51	20.53
10	25	12		20.33	20.35	20.37
10	25	25		20.28	20.28	20.31
10	50	0		20.34	20.40	20.44
10	1	0	16-QAM	20.87	20.94	20.99
10	1	25		20.68	20.65	20.64
10	1	49		20.48	20.54	20.47
10	25	0		19.52	19.64	19.67
10	25	12		19.43	19.47	19.48
10	25	25		19.41	19.42	19.43
10	50	0		19.41	19.53	19.53
5	1	0	QPSK	21.36	21.35	21.31
5	1	12		21.18	21.27	21.24
5	1	24		21.17	21.14	21.10
5	12	0		20.45	20.41	20.40
5	12	7		20.34	20.32	20.27
5	12	13		20.32	20.27	20.23
5	25	0		20.33	20.32	20.29
5	1	0	16-QAM	20.78	20.69	20.68
5	1	12		20.64	20.60	20.51
5	1	24		20.53	20.51	20.38
5	12	0		19.61	19.55	19.54
5	12	7		19.41	19.50	19.39
5	12	13		19.35	19.41	19.33
5	25	0		19.40	19.44	19.40



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.60	21.63	21.63
3	1	8		21.09	21.02	21.08
3	1	14		20.74	20.95	20.84
3	8	0		20.50	20.61	20.59
3	8	4		20.26	20.29	20.33
3	8	7		20.11	20.17	20.20
3	15	0		20.28	20.40	20.43
3	1	0	16-QAM	21.14	21.08	21.11
3	1	8		20.57	20.63	20.52
3	1	14		20.53	20.55	20.44
3	8	0		19.55	19.69	19.73
3	8	4		19.40	19.42	19.45
3	8	7		19.23	19.35	19.38
3	15	0		19.44	19.50	19.52
1.4	1	0	QPSK	21.44	21.53	21.54
1.4	1	3		21.18	21.15	21.18
1.4	1	5		21.05	21.10	21.08
1.4	3	0		20.38	20.44	20.46
1.4	3	1		20.26	20.28	20.30
1.4	3	3		20.21	20.21	20.24
1.4	6	0		20.27	20.33	20.37
1.4	1	0	16-QAM	20.71	20.62	20.61
1.4	1	3		20.57	20.53	20.44
1.4	1	5		20.46	20.44	20.31
1.4	3	0		19.54	19.48	19.47
1.4	3	1		19.34	19.43	19.32
1.4	3	3		19.28	19.34	19.26
1.4	6	0		19.33	19.37	19.33



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.23	22.14	22.21
10	1	25		22.21	22.08	22.22
10	1	49		22.06	21.92	22.07
10	25	0		21.21	21.19	21.17
10	25	12		21.11	21.11	21.23
10	25	25		21.09	21.06	21.12
10	50	0		21.11	21.12	21.25
10	1	0	16-QAM	21.63	21.58	21.41
10	1	25		21.61	21.42	21.54
10	1	49		21.41	21.33	21.30
10	25	0		20.33	20.31	20.23
10	25	12		20.23	20.22	20.24
10	25	25		20.22	20.21	20.18
10	50	0		20.22	20.23	20.29
5	1	0	QPSK	22.12	22.12	22.18
5	1	12		22.13	22.09	22.14
5	1	24		22.01	22.04	22.07
5	12	0		21.20	21.16	21.19
5	12	7		21.15	21.09	21.15
5	12	13		21.11	21.04	21.08
5	25	0		21.11	21.10	21.18
5	1	0	16-QAM	21.53	21.41	21.55
5	1	12		21.50	21.42	21.46
5	1	24		21.38	21.33	21.40
5	12	0		20.31	20.25	20.31
5	12	7		20.26	20.23	20.25
5	12	13		20.24	20.18	20.21
5	25	0		20.21	20.19	20.26



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.01	22.01	22.07
3	1	8		22.02	21.98	22.03
3	1	14		21.90	21.93	21.96
3	8	0		21.09	21.05	21.08
3	8	4		21.04	20.98	21.04
3	8	7		21.00	20.93	20.97
3	15	0		21.00	20.99	21.07
3	1	0	16-QAM	21.52	21.47	21.30
3	1	8		21.50	21.31	21.43
3	1	14		21.30	21.22	21.19
3	8	0		20.22	20.20	20.12
3	8	4		20.12	20.11	20.13
3	8	7		20.11	20.10	20.07
3	15	0		20.11	20.12	20.18
1.4	1	0	QPSK	22.08	22.00	22.07
1.4	1	3		22.07	21.94	22.08
1.4	1	5		21.92	21.78	21.93
1.4	3	0		21.07	21.05	21.03
1.4	3	1		20.97	20.97	21.09
1.4	3	3		20.95	20.92	20.98
1.4	6	0		20.97	20.98	21.11
1.4	1	0	16-QAM	21.39	21.27	21.41
1.4	1	3		21.36	21.28	21.32
1.4	1	5		21.24	21.19	21.26
1.4	3	0		20.17	20.11	20.17
1.4	3	1		20.12	20.09	20.11
1.4	3	3		20.10	20.04	20.07
1.4	6	0		20.07	20.05	20.12



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.23	22.24	22.21
10	1	25		22.20	22.17	22.20
10	1	49		22.15	22.12	22.23
10	25	0		21.28	21.20	21.25
10	25	12		21.50	21.21	21.21
10	25	25		21.14	21.22	21.13
10	50	0		21.13	21.23	21.22
10	1	0	16-QAM	21.53	21.50	21.54
10	1	25		21.55	21.58	21.56
10	1	49		21.40	21.48	21.56
10	25	0		20.46	20.38	20.44
10	25	12		20.31	20.40	20.37
10	25	25		20.38	20.36	20.31
10	50	0		20.31	20.39	20.38
5	1	0	QPSK	22.17	22.12	22.16
5	1	12		22.23	22.17	22.12
5	1	24		22.05	22.16	22.14
5	12	0		21.29	21.24	21.21
5	12	7		21.25	21.21	21.13
5	12	13		21.16	21.25	21.23
5	25	0		21.22	21.23	21.10
5	1	0	16-QAM	21.53	21.46	21.53
5	1	12		21.62	21.48	21.45
5	1	24		21.43	21.44	21.41
5	12	0		20.49	20.41	20.41
5	12	7		20.46	20.38	20.30
5	12	13		20.34	20.36	20.41
5	25	0		20.38	20.36	20.28



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.05	22.00	22.04
3	1	8		22.11	22.05	22.00
3	1	14		21.93	22.04	22.02
3	8	0		21.17	21.12	21.09
3	8	4		21.13	21.09	21.01
3	8	7		21.04	21.13	21.11
3	15	0		21.10	21.11	20.98
3	1	0	16-QAM	21.41	21.38	21.42
3	1	8		21.43	21.46	21.44
3	1	14		21.28	21.36	21.44
3	8	0		20.34	20.26	20.32
3	8	4		20.19	20.28	20.25
3	8	7		20.26	20.24	20.19
3	15	0		20.19	20.27	20.26
1.4	1	0	QPSK	22.07	21.94	22.05
1.4	1	3		22.04	22.01	22.04
1.4	1	5		21.99	21.96	22.07
1.4	3	0		21.12	21.04	21.09
1.4	3	1		21.34	21.05	21.05
1.4	3	3		20.98	21.06	20.97
1.4	6	0		20.97	21.07	21.06
1.4	1	0	16-QAM	21.37	21.30	21.37
1.4	1	3		21.46	21.32	21.29
1.4	1	5		21.27	21.28	21.25
1.4	3	0		20.33	20.25	20.25
1.4	3	1		20.30	20.22	20.14
1.4	3	3		20.18	20.20	20.25
1.4	6	0		20.22	20.20	20.12



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.21	
10	1	25			21.98	
10	1	49			21.49	
10	25	0			21.16	
10	25	12			21.11	
10	25	25			21.03	
10	50	0			21.10	
10	1	0	16-QAM		21.08	
10	1	25			21.31	
10	1	49			20.78	
10	25	0			20.25	
10	25	12			20.16	
10	25	25			20.12	
10	50	0			20.18	
5	1	0	QPSK	22.05	22.07	22.02
5	1	12		22.12	22.09	21.99
5	1	24		22.00	21.95	22.02
5	12	0		21.16	21.22	21.09
5	12	7		21.15	21.13	21.05
5	12	13		21.16	21.05	21.14
5	25	0		21.12	21.05	21.05
5	1	0	16-QAM	21.29	21.40	21.43
5	1	12		21.39	21.40	21.28
5	1	24		21.36	21.21	21.25
5	12	0		20.27	20.37	20.19
5	12	7		20.25	20.27	20.11
5	12	13		20.28	20.14	20.20
5	25	0		20.20	20.20	20.15



ERP/EIRP

LTE Band 2 (GT - LC = 2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.92	21.97	22.08	21.70	21.79	21.89	21.53	21.59	21.69
Conducted Power (Watts)	0.1556	0.1574	0.1614	0.1479	0.1510	0.1545	0.1422	0.1442	0.1476
EIRP(dBm)	23.92	23.97	24.08	23.70	23.79	23.89	23.53	23.59	23.69
EIRP(Watts)	0.2466	0.2495	0.2559	0.2344	0.2393	0.2449	0.2254	0.2286	0.2339

LTE Band 2 (GT - LC = 2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.75	21.84	21.94	22.00	22.05	22.16	22.00	22.02	22.18
Conducted Power (Watts)	0.1496	0.1528	0.1563	0.1585	0.1603	0.1644	0.1585	0.1592	0.1652
EIRP(dBm)	23.75	23.84	23.94	24.00	24.05	24.16	24.00	24.02	24.18
EIRP(Watts)	0.2371	0.2421	0.2477	0.2512	0.2541	0.2606	0.2512	0.2523	0.2618



LTE Band 2 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.76	20.79	20.95	21.25	21.32	21.48	20.84	20.87	21.03
Conducted Power (Watts)	0.1191	0.1199	0.1245	0.1334	0.1355	0.1406	0.1213	0.1222	0.1268
EIRP(dBm)	22.76	22.79	22.95	23.25	23.32	23.48	22.84	22.87	23.03
EIRP(Watts)	0.1888	0.1901	0.1972	0.2113	0.2148	0.2228	0.1923	0.1936	0.2009

LTE Band 2 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	21.08	21.17	21.29	21.30	21.37	21.53	21.44	21.74	21.11
Conducted Power (Watts)	0.1282	0.1309	0.1346	0.1349	0.1371	0.1422	0.1393	0.1493	0.1291
EIRP(dBm)	23.08	23.17	23.29	23.30	23.37	23.53	23.44	23.74	23.11
EIRP(Watts)	0.2032	0.2075	0.2133	0.2138	0.2173	0.2254	0.2208	0.2366	0.2046



LTE Band 4 (GT - LC = 2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	21.44	21.53	21.54	21.60	21.63	21.63	21.36	21.35	21.31
Conducted Power (Watts)	0.1393	0.1422	0.1426	0.1445	0.1455	0.1455	0.1368	0.1365	0.1352
EIRP(dBm)	23.44	23.53	23.54	23.60	23.63	23.63	23.36	23.35	23.31
EIRP(Watts)	0.2208	0.2254	0.2259	0.2291	0.2307	0.2307	0.2168	0.2163	0.2143

LTE Band 4 (GT - LC = 2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.51	21.60	21.61	21.77	21.73	21.76	21.95	22.08	21.98
Conducted Power (Watts)	0.1416	0.1445	0.1449	0.1503	0.1489	0.1500	0.1567	0.1614	0.1578
EIRP(dBm)	23.51	23.60	23.61	23.77	23.73	23.76	23.95	24.08	23.98
EIRP(Watts)	0.2244	0.2291	0.2296	0.2382	0.2360	0.2377	0.2483	0.2559	0.2500



LTE Band 4 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.71	20.62	20.61	21.14	21.08	21.11	20.78	20.69	20.68
Conducted Power (Watts)	0.1178	0.1153	0.1151	0.1300	0.1282	0.1291	0.1197	0.1172	0.1169
EIRP(dBm)	22.71	22.62	22.61	23.14	23.08	23.11	22.78	22.69	22.68
EIRP(Watts)	0.1866	0.1828	0.1824	0.2061	0.2032	0.2046	0.1897	0.1858	0.1854

LTE Band 4 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	20.87	20.94	20.99	21.19	21.13	21.16	21.13	21.08	20.94
Conducted Power (Watts)	0.1222	0.1242	0.1256	0.1315	0.1297	0.1306	0.1297	0.1282	0.1242
EIRP(dBm)	22.87	22.94	22.99	23.19	23.13	23.16	23.13	23.08	22.94
EIRP(Watts)	0.1936	0.1968	0.1991	0.2084	0.2056	0.2070	0.2056	0.2032	0.1968



LTE Band 5 (GT - LC = 2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.08	22.00	22.07	22.01	22.01	22.07	22.12	22.12	22.18
Conducted Power (Watts)	0.1614	0.1585	0.1611	0.1589	0.1589	0.1611	0.1629	0.1629	0.1652
ERP(dBm)	21.93	21.85	21.92	21.86	21.86	21.92	21.97	21.97	22.03
ERP(Watts)	0.1560	0.1531	0.1556	0.1535	0.1535	0.1556	0.1574	0.1574	0.1596

LTE Band 5 (GT - LC = 2.00 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	22.23	22.14	22.21
Conducted Power (Watts)	0.1671	0.1637	0.1663
ERP(dBm)	22.08	21.99	22.06
ERP(Watts)	0.1614	0.1581	0.1607



LTE Band 5 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.39	21.27	21.41	21.52	21.47	21.30	21.53	21.41	21.55
Conducted Power (Watts)	0.1377	0.1340	0.1384	0.1419	0.1403	0.1349	0.1422	0.1384	0.1429
ERP(dBm)	21.24	21.12	21.26	21.37	21.32	21.15	21.38	21.26	21.40
ERP(Watts)	0.1330	0.1294	0.1337	0.1371	0.1355	0.1303	0.1374	0.1337	0.1380

LTE Band 5 (GT - LC = 2.00 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	21.63	21.58	21.41
Conducted Power (Watts)	0.1455	0.1439	0.1384
ERP(dBm)	21.48	21.43	21.26
ERP(Watts)	0.1406	0.1390	0.1337



LTE Band 12 (GT - LC = 2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.07	21.94	22.05	22.11	22.05	22.00	22.23	22.17	22.12
Conducted Power (Watts)	0.1611	0.1563	0.1603	0.1626	0.1603	0.1585	0.1671	0.1648	0.1629
ERP(dBm)	21.92	21.79	21.90	21.96	21.90	21.85	22.08	22.02	21.97
ERP(Watts)	0.1556	0.1510	0.1549	0.1570	0.1549	0.1531	0.1614	0.1592	0.1574

LTE Band 12 (GT - LC = 2.00 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.23	22.24	22.21
Conducted Power (Watts)	0.1671	0.1675	0.1663
ERP(dBm)	22.08	22.09	22.06
ERP(Watts)	0.1614	0.1618	0.1607



LTE Band 12 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.46	21.32	21.29	21.43	21.46	21.44	21.62	21.48	21.45
Conducted Power (Watts)	0.1400	0.1355	0.1346	0.1390	0.1400	0.1393	0.1452	0.1406	0.1396
ERP(dBm)	21.31	21.17	21.14	21.28	21.31	21.29	21.47	21.33	21.30
ERP(Watts)	0.1352	0.1309	0.1300	0.1343	0.1352	0.1346	0.1403	0.1358	0.1349

LTE Band 12 (GT - LC = 2.00 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.55	21.58	21.56
Conducted Power (Watts)	0.1429	0.1439	0.1432
ERP(dBm)	21.40	21.43	21.41
ERP(Watts)	0.1380	0.1390	0.1384



LTE Band 13 (GT - LC = 2.00 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.12	22.09	21.99		22.21	-
Conducted Power (Watts)	0.1629	0.1618	0.1581		0.1663	-
ERP(dBm)	21.97	21.94	21.84		22.06	-
ERP(Watts)	0.1574	0.1563	0.1528		0.1607	-

LTE Band 13 (GT - LC = 2.00 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	21.29	21.40	21.43		21.31	-
Conducted Power (Watts)	0.1346	0.1380	0.1390		0.1352	-
ERP(dBm)	21.14	21.25	21.28		21.16	-
ERP(Watts)	0.1300	0.1334	0.1343		0.1306	-



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700.32	-57.78	-13	-44.78	-73.81	-64.54	5.82	12.58	H
	5550.48	-53.74	-13	-40.74	-73.18	-59.46	7.28	13.00	H
	7400.64	-49.09	-13	-36.09	-73.90	-52.25	8.32	11.48	H
	3700.32	-53.04	-13	-40.04	-68.82	-59.80	5.82	12.58	V
	5550.48	-51.58	-13	-38.58	-70.87	-57.30	7.28	13.00	V
	7400.64	-42.57	-13	-29.57	-67.69	-45.73	8.32	11.48	V
Middle	3758.92	-49.24	-13	-36.24	-65.47	-55.99	5.85	12.60	H
	5638.38	-52.69	-13	-39.69	-72.96	-58.49	7.30	13.10	H
	7517.84	-51.03	-13	-38.03	-75.57	-54.18	8.35	11.50	H
	3758.92	-45.87	-13	-32.87	-61.66	-52.62	5.85	12.60	V
	5638.38	-51.91	-13	-38.91	-71.01	-57.71	7.30	13.10	V
	7517.84	-45.79	-13	-32.79	-70.76	-48.94	8.35	11.50	V
Highest	3817.52	-49.58	-13	-36.58	-65.95	-56.32	5.88	12.62	H
	5726.28	-48.50	-13	-35.50	-69.56	-54.31	7.32	13.13	H
	7635.04	-48.19	-13	-35.19	-72.50	-51.35	8.38	11.54	H
	3817.52	-46.06	-13	-33.06	-61.94	-52.80	5.88	12.62	V
	5726.28	-45.43	-13	-32.43	-65.64	-51.24	7.32	13.13	V
	7635.04	-40.16	-13	-27.16	-65	-43.32	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700.48	-58.03	-13	-45.03	-74.06	-64.79	5.82	12.58	H
	5550.72	-53.94	-13	-40.94	-73.37	-59.66	7.28	13.00	H
	7400.96	-49.25	-13	-36.25	-74.06	-52.41	8.32	11.48	H
	3700.48	-53.30	-13	-40.30	-69.08	-60.06	5.82	12.58	V
	5550.72	-50.18	-13	-37.18	-69.47	-55.90	7.28	13.00	V
	7400.96	-43.29	-13	-30.29	-68.41	-46.45	8.32	11.48	V
Middle	3757.48	-48.89	-13	-35.89	-65.11	-55.64	5.85	12.60	H
	5636.22	-52.97	-13	-39.97	-73.18	-58.77	7.30	13.10	H
	7514.96	-50.22	-13	-37.22	-74.77	-53.37	8.35	11.50	H
	3757.48	-44.34	-13	-31.34	-60.13	-51.09	5.85	12.60	V
	5636.22	-51.62	-13	-38.62	-70.72	-57.42	7.30	13.10	V
	7514.96	-45.47	-13	-32.47	-70.44	-48.62	8.35	11.50	V
Highest	3814.48	-52.11	-13	-39.11	-68.48	-58.85	5.88	12.62	H
	5721.72	-49.26	-13	-36.26	-70.28	-55.07	7.32	13.13	H
	7628.96	-48.58	-13	-35.58	-72.90	-51.74	8.38	11.54	H
	3814.48	-49.27	-13	-36.27	-65.14	-56.01	5.88	12.62	V
	5721.72	-46.21	-13	-33.21	-66.36	-52.02	7.32	13.13	V
	7628.96	-43.12	-13	-30.12	-67.97	-46.28	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700.68	-55.16	-13	-42.16	-71.19	-61.92	5.82	12.58	H
	5551.02	-52.19	-13	-39.19	-71.62	-57.91	7.28	13.00	H
	7401.36	-48.75	-13	-35.75	-73.56	-51.91	8.32	11.48	H
	3700.68	-51.03	-13	-38.03	-66.81	-57.79	5.82	12.58	V
	5551.02	-48.63	-13	-35.63	-67.92	-54.35	7.28	13.00	V
	7401.36	-41.23	-13	-28.23	-66.35	-44.39	8.32	11.48	V
Middle	3755.68	-51.45	-13	-38.45	-67.67	-58.20	5.85	12.60	H
	5633.52	-52.90	-13	-39.90	-73.04	-58.70	7.30	13.10	H
	7511.36	-48.79	-13	-35.79	-73.35	-51.94	8.35	11.50	H
	3755.68	-46.80	-13	-33.80	-62.59	-53.55	5.85	12.60	V
	5633.52	-51.92	-13	-38.92	-71.02	-57.72	7.30	13.10	V
	7511.36	-43.53	-13	-30.53	-68.5	-46.68	8.35	11.50	V
Highest	3810.68	-49.86	-13	-36.86	-66.23	-56.60	5.88	12.62	H
	5716.02	-52.54	-13	-39.54	-73.51	-58.35	7.32	13.13	H
	7621.36	-49.36	-13	-36.36	-73.70	-52.52	8.38	11.54	H
	3810.68	-45.53	-13	-32.53	-61.38	-52.27	5.88	12.62	V
	5716.02	-46.81	-13	-33.81	-66.89	-52.62	7.32	13.13	V
	7621.36	-44.80	-13	-31.80	-69.65	-47.96	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3701.18	-55.45	-13	-42.45	-71.48	-62.21	5.82	12.58	H
	5551.77	-53.23	-13	-40.23	-72.66	-58.95	7.28	13.00	H
	7402.36	-48.79	-13	-35.79	-73.60	-51.95	8.32	11.48	H
	3701.18	-53.55	-13	-40.55	-69.33	-60.31	5.82	12.58	V
	5551.77	-48.83	-13	-35.83	-68.11	-54.55	7.28	13.00	V
	7402.36	-42.71	-13	-29.71	-67.83	-45.87	8.32	11.48	V
Middle	3751.18	-49.75	-13	-36.75	-65.95	-56.50	5.85	12.60	H
	5626.77	-55.82	-13	-42.82	-75.79	-61.62	7.30	13.10	H
	7502	-48.65	-13	-35.65	-73.22	-51.80	8.35	11.50	H
	3751.18	-46.11	-13	-33.11	-61.9	-52.86	5.85	12.60	V
	5626.77	-50.75	-13	-37.75	-69.85	-56.55	7.30	13.10	V
	7502	-44.03	-13	-31.03	-69.01	-47.18	8.35	11.50	V
Highest	3801.18	-46.08	-13	-33.08	-62.45	-52.82	5.88	12.62	H
	5701.77	-52.29	-13	-39.29	-73.13	-58.10	7.32	13.13	H
	7602.36	-47.73	-13	-34.73	-72.11	-50.89	8.38	11.54	H
	3801.18	-45.23	-13	-32.23	-61.04	-51.97	5.88	12.62	V
	5701.77	-47.78	-13	-34.78	-67.67	-53.59	7.32	13.13	V
	7602.36	-43.16	-13	-30.16	-68.04	-46.32	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3701.68	-58.85	-13	-45.85	-74.89	-65.61	5.82	12.58	H
	5552.52	-52.78	-13	-39.78	-72.21	-58.50	7.28	13.00	H
	7403.36	-48.28	-13	-35.28	-73.08	-51.44	8.32	11.48	H
	3701.68	-52.80	-13	-39.80	-68.58	-59.56	5.82	12.58	V
	5552.52	-49.50	-13	-36.50	-68.78	-55.22	7.28	13.00	V
	7403.36	-43.59	-13	-30.59	-68.71	-46.75	8.32	11.48	V
Middle	3746.68	-50.20	-13	-37.20	-66.39	-56.95	5.85	12.60	H
	5620.02	-56.06	-13	-43.06	-75.85	-61.86	7.30	13.10	H
	7493.36	-47.97	-13	-34.97	-72.56	-51.12	8.35	11.50	H
	3746.68	-45.03	-13	-32.03	-60.82	-51.78	5.85	12.60	V
	5620.02	-50.55	-13	-37.55	-69.65	-56.35	7.30	13.10	V
	7493.36	-44.05	-13	-31.05	-69.04	-47.20	8.35	11.50	V
Highest	3791.68	-49.79	-13	-36.79	-66.12	-56.53	5.88	12.62	H
	5687.52	-51.52	-13	-38.52	-72.24	-57.33	7.32	13.13	H
	7583.36	-45.91	-13	-32.91	-70.33	-49.07	8.38	11.54	H
	3791.68	-47.64	-13	-34.64	-63.43	-54.38	5.88	12.62	V
	5687.52	-49.85	-13	-36.85	-69.56	-55.66	7.32	13.13	V
	7583.36	-45.09	-13	-32.09	-69.99	-48.25	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702.18	-58.16	-13	-45.16	-74.20	-64.92	5.82	12.58	H
	5553.27	-54.82	-13	-41.82	-74.25	-60.54	7.28	13.00	H
	7404.36	-50.18	-13	-37.18	-74.98	-53.34	8.32	11.48	H
	3702.18	-53.12	-13	-40.12	-68.9	-59.88	5.82	12.58	V
	5553.27	-53.50	-13	-40.50	-72.78	-59.22	7.28	13.00	V
	7404.36	-46.83	-13	-33.83	-71.95	-49.99	8.32	11.48	V
Middle	3742.18	-49.71	-13	-36.71	-65.88	-56.46	5.85	12.60	H
	5613.27	-55.62	-13	-42.62	-75.24	-61.42	7.30	13.10	H
	7484.36	-47.70	-13	-34.70	-72.32	-50.85	8.35	11.50	H
	3742.18	-43.75	-13	-30.75	-59.54	-50.50	5.85	12.60	V
	5613.27	-50.52	-13	-37.52	-69.62	-56.32	7.30	13.10	V
	7484.36	-42.75	-13	-29.75	-67.76	-45.90	8.35	11.50	V
Highest	3782.18	-53.85	-13	-40.85	-70.15	-60.59	5.88	12.62	H
	5673.27	-54.09	-13	-41.09	-74.68	-59.90	7.32	13.13	H
	7564.36	-48.10	-13	-35.10	-72.55	-51.26	8.38	11.54	H
	3782.18	-51.51	-13	-38.51	-67.3	-58.25	5.88	12.62	V
	5673.27	-48.68	-13	-35.68	-68.2	-54.49	7.32	13.13	V
	7564.36	-42.82	-13	-29.82	-67.74	-45.98	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1.4MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420.32	-57.50	-13	-44.50	-72.28	-64.38	5.60	12.48	H
	5130.48	-56.57	-13	-43.57	-76.24	-62.25	7.10	12.78	H
	6840.64	-41.44	-13	-28.44	-64.65	-44.83	8.38	11.77	H
	3420.32	-49.77	-13	-36.77	-64.56	-56.65	5.60	12.48	V
	5130.48	-52.99	-13	-39.99	-72.41	-58.67	7.10	12.78	V
	6840.64	-37.93	-13	-24.93	-61.56	-41.32	8.38	11.77	V
Middle	3463.74	-62.09	-13	-49.09	-77.10	-68.94	5.65	12.50	H
	5195.61	-58.16	-13	-45.16	-77.86	-63.83	7.13	12.80	H
	6927.48	-48.15	-13	-35.15	-71.43	-51.55	8.40	11.80	H
	3463.74	-54.53	-13	-41.53	-69.57	-61.38	5.65	12.50	V
	5195.61	-55.02	-13	-42.02	-74.34	-60.69	7.13	12.80	V
	6927.48	-38.54	-13	-25.54	-62.11	-41.94	8.40	11.80	V
Highest	3507.52	-61.96	-13	-48.96	-77.19	-68.80	5.68	12.52	H
	5261.28	-56.61	-13	-43.61	-75.88	-62.28	7.15	12.82	H
	7015.04	-48.80	-13	-35.80	-72.16	-52.23	8.42	11.85	H
	3507.52	-54.08	-13	-41.08	-69.35	-60.92	5.68	12.52	V
	5261.28	-54.46	-13	-41.46	-73.3	-60.13	7.15	12.82	V
	7015.04	-39.42	-13	-26.42	-63.01	-42.85	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 3MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420.48	-58.91	-13	-45.91	-73.69	-65.79	5.60	12.48	H
	5130.72	-57.45	-13	-44.45	-77.12	-63.13	7.10	12.78	H
	6840.96	-43.20	-13	-30.20	-66.41	-46.59	8.38	11.77	H
	3420.48	-50.42	-13	-37.42	-65.21	-57.30	5.60	12.48	V
	5130.72	-53.71	-13	-40.71	-73.13	-59.39	7.10	12.78	V
	6840.96	-36.65	-13	-23.65	-60.28	-40.04	8.38	11.77	V
Middle	3462.48	-62.24	-13	-49.24	-77.24	-69.09	5.65	12.50	H
	5193.72	-58.89	-13	-45.89	-78.59	-64.56	7.13	12.80	H
	6924.96	-47.29	-13	-34.29	-70.56	-50.69	8.40	11.80	H
	3462.48	-55.02	-13	-42.02	-70.05	-61.87	5.65	12.50	V
	5193.72	-56.92	-13	-43.92	-76.26	-62.59	7.13	12.80	V
	6924.96	-42.34	-13	-29.34	-65.91	-45.74	8.40	11.80	V
Highest	3504.48	-61.81	-13	-48.81	-77.02	-68.65	5.68	12.52	H
	5256.72	-57.31	-13	-44.31	-76.55	-62.98	7.15	12.82	H
	7008.96	-49.04	-13	-36.04	-72.38	-52.47	8.42	11.85	H
	3504.48	-53.92	-13	-40.92	-69.17	-60.76	5.68	12.52	V
	5256.72	-54.90	-13	-41.90	-73.71	-60.57	7.15	12.82	V
	7008.96	-41.35	-13	-28.35	-64.9	-44.78	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420.68	-57.79	-13	-44.79	-72.57	-64.67	5.60	12.48	H
	5131.02	-56.53	-13	-43.53	-76.20	-62.21	7.10	12.78	H
	6841.36	-40.90	-13	-27.90	-64.11	-44.29	8.38	11.77	H
	3420.68	-50.42	-13	-37.42	-65.22	-57.30	5.60	12.48	V
	5131.02	-53.63	-13	-40.63	-73.05	-59.31	7.10	12.78	V
	6841.36	-36.56	-13	-23.56	-60.19	-39.95	8.38	11.77	V
Middle	3460.68	-60.57	-13	-47.57	-75.55	-67.42	5.65	12.50	H
	5191.02	-58.46	-13	-45.46	-78.16	-64.13	7.13	12.80	H
	6921.36	-48.25	-13	-35.25	-71.51	-51.65	8.40	11.80	H
	3460.68	-55.33	-13	-42.33	-70.34	-62.18	5.65	12.50	V
	5191.02	-57.08	-13	-44.08	-76.42	-62.75	7.13	12.80	V
	6921.36	-41.67	-13	-28.67	-65.24	-45.07	8.40	11.80	V
Highest	3500.68	-60.55	-13	-47.55	-75.74	-67.39	5.68	12.52	H
	5251.02	-58.23	-13	-45.23	-77.44	-63.90	7.15	12.82	H
	7001.36	-48.28	-13	-35.28	-71.60	-51.71	8.42	11.85	H
	3500.68	-53.41	-13	-40.41	-68.64	-60.25	5.68	12.52	V
	5251.02	-55.89	-13	-42.89	-74.65	-61.56	7.15	12.82	V
	7001.36	-38.51	-13	-25.51	-62.02	-41.94	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 10MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3421.18	-57.75	-13	-44.75	-72.53	-64.63	5.60	12.48	H
	5131.77	-56.80	-13	-43.80	-76.47	-62.48	7.10	12.78	H
	6842.36	-42.18	-13	-29.18	-65.39	-45.57	8.38	11.77	H
	3421.18	-49.77	-13	-36.77	-64.57	-56.65	5.60	12.48	V
	5131.77	-52.24	-13	-39.24	-71.65	-57.92	7.10	12.78	V
	6842.36	-35.77	-13	-22.77	-59.4	-39.16	8.38	11.77	V
Middle	3456.18	-61.07	-13	-48.07	-76.03	-67.92	5.65	12.50	H
	5184.27	-58.81	-13	-45.81	-78.51	-64.48	7.13	12.80	H
	6912.36	-47.25	-13	-34.25	-70.50	-50.65	8.40	11.80	H
	3456.18	-53.85	-13	-40.85	-68.84	-60.70	5.65	12.50	V
	5184.27	-57.92	-13	-44.92	-77.26	-63.59	7.13	12.80	V
	6912.36	-40.05	-13	-27.05	-63.61	-43.45	8.40	11.80	V
Highest	3491.18	-60.19	-13	-47.19	-75.34	-67.03	5.68	12.52	H
	5236.77	-56.08	-13	-43.08	-75.42	-61.75	7.15	12.82	H
	6982.36	-46.32	-13	-33.32	-69.60	-49.75	8.42	11.85	H
	3491.18	-52.81	-13	-39.81	-68	-59.65	5.68	12.52	V
	5236.77	-54.64	-13	-41.64	-73.55	-60.31	7.15	12.82	V
	6982.36	-38.18	-13	-25.18	-61.67	-41.61	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 15MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3421.68	-58.86	-13	-45.86	-73.64	-65.74	5.60	12.48	H
	5132.52	-56.36	-13	-43.36	-76.03	-62.04	7.10	12.78	H
	6843.36	-42.35	-13	-29.35	-65.56	-45.74	8.38	11.77	H
	3421.68	-50.09	-13	-37.09	-64.89	-56.97	5.60	12.48	V
	5132.52	-52.98	-13	-39.98	-72.39	-58.66	7.10	12.78	V
	6843.36	-34.91	-13	-21.91	-58.54	-38.30	8.38	11.77	V
Middle	3451.68	-59.92	-13	-46.92	-74.86	-66.77	5.65	12.50	H
	5177.52	-58.53	-13	-45.53	-78.22	-64.20	7.13	12.80	H
	6903.36	-42.41	-13	-29.41	-65.64	-45.81	8.40	11.80	H
	3451.68	-50.37	-13	-37.37	-65.33	-57.22	5.65	12.50	V
	5177.52	-56.91	-13	-43.91	-76.26	-62.58	7.13	12.80	V
	6903.36	-37.97	-13	-24.97	-61.53	-41.37	8.40	11.80	V
Highest	3481.68	-60.02	-13	-47.02	-75.11	-66.86	5.68	12.52	H
	5222.52	-55.87	-13	-42.87	-75.35	-61.54	7.15	12.82	H
	6963.36	-44.42	-13	-31.42	-67.70	-47.85	8.42	11.85	H
	3481.68	-53.78	-13	-40.78	-68.91	-60.62	5.68	12.52	V
	5222.52	-53.87	-13	-40.87	-72.94	-59.54	7.15	12.82	V
	6963.36	-39.63	-13	-26.63	-63.15	-43.06	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 20MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3422.18	-58.43	-13	-45.43	-73.22	-65.31	5.60	12.48	H
	5133.27	-55.61	-13	-42.61	-75.28	-61.29	7.10	12.78	H
	6844.36	-42.40	-13	-29.40	-65.61	-45.79	8.38	11.77	H
	3422.18	-50.25	-13	-37.25	-65.05	-57.13	5.60	12.48	V
	5133.27	-53.55	-13	-40.55	-72.96	-59.23	7.10	12.78	V
	6844.36	-34.83	-13	-21.83	-58.46	-38.22	8.38	11.77	V
Middle	3447.18	-58.86	-13	-45.86	-73.78	-65.71	5.65	12.50	H
	5170.77	-59.19	-13	-46.19	-78.87	-64.86	7.13	12.80	H
	6894.36	-45.67	-13	-32.67	-68.92	-49.07	8.40	11.80	H
	3447.18	-49.98	-13	-36.98	-64.92	-56.83	5.65	12.50	V
	5170.77	-56.12	-13	-43.12	-75.48	-61.79	7.13	12.80	V
	6894.36	-38.38	-13	-25.38	-61.97	-41.78	8.40	11.80	V
Highest	3472.18	-59.20	-13	-46.20	-74.25	-66.04	5.68	12.52	H
	5208.27	-57.06	-13	-44.06	-76.68	-62.73	7.15	12.82	H
	6944.36	-44.85	-13	-31.85	-68.12	-48.28	8.42	11.85	H
	3472.18	-53.42	-13	-40.42	-68.5	-60.26	5.68	12.52	V
	5208.27	-55.81	-13	-42.81	-75.04	-61.48	7.15	12.82	V
	6944.36	-39.27	-13	-26.27	-62.81	-42.70	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649.92	-44.45	-13	-31.45	-52.54	-47.68	3.98	9.36	H
	2474.88	-45.52	-13	-32.52	-57.55	-49.07	4.85	10.55	H
	3299.84	-52.38	-13	-39.38	-67.26	-57.31	5.50	12.58	H
	1649.92	-46.12	-13	-33.12	-54.26	-49.35	3.98	9.36	V
	2474.88	-46.93	-13	-33.93	-58.99	-50.48	4.85	10.55	V
	3299.84	-49.34	-13	-36.34	-64.14	-54.27	5.50	12.58	V
Middle	1671.92	-41.06	-13	-28.06	-48.66	-44.31	4.00	9.40	H
	2507.88	-46.44	-13	-33.44	-58.51	-50.01	4.88	10.60	H
	3343.84	-54.35	-13	-41.35	-69.11	-59.28	5.52	12.60	H
	1671.92	-46.77	-13	-33.77	-54.56	-50.02	4.00	9.40	V
	2507.88	-45.27	-13	-32.27	-57.46	-48.84	4.88	10.60	V
	3343.84	-50.40	-13	-37.40	-65.17	-55.33	5.52	12.60	V
Highest	1695.52	-42.42	-13	-29.42	-50.19	-45.59	4.10	9.42	H
	2543.28	-47.31	-13	-34.31	-59.66	-50.89	4.90	10.63	H
	3391.04	-53.27	-13	-40.27	-67.96	-58.19	5.55	12.62	H
	1695.52	-45.08	-13	-32.08	-53.03	-48.25	4.10	9.42	V
	2543.28	-46.92	-13	-33.92	-59.29	-50.50	4.90	10.63	V
	3391.04	-51.05	-13	-38.05	-65.75	-55.97	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648.48	-44.30	-13	-31.30	-52.42	-47.53	3.98	9.36	H
	2472.72	-45.55	-13	-32.55	-57.57	-49.10	4.85	10.55	H
	3296.96	-53.39	-13	-40.39	-68.28	-58.32	5.50	12.58	H
	1648.48	-46.67	-13	-33.67	-54.83	-49.90	3.98	9.36	V
	2472.72	-47.13	-13	-34.13	-59.19	-50.68	4.85	10.55	V
	3296.96	-48.97	-13	-35.97	-63.77	-53.90	5.50	12.58	V
Middle	1670.48	-41.65	-13	-28.65	-49.29	-44.90	4.00	9.40	H
	2505.72	-46.70	-13	-33.70	-58.77	-50.27	4.88	10.60	H
	3340.96	-54.29	-13	-41.29	-69.06	-59.22	5.52	12.60	H
	1670.48	-46.49	-13	-33.49	-54.31	-49.74	4.00	9.40	V
	2505.72	-45.16	-13	-32.16	-57.34	-48.73	4.88	10.60	V
	3340.96	-51.78	-13	-38.78	-66.56	-56.71	5.52	12.60	V
Highest	1692.48	-43.17	-13	-30.17	-50.92	-46.34	4.10	9.42	H
	2538.72	-46.54	-13	-33.54	-58.85	-50.12	4.90	10.63	H
	3384.96	-53.41	-13	-40.41	-68.11	-58.33	5.55	12.62	H
	1692.48	-45.12	-13	-32.12	-53.06	-48.29	4.10	9.42	V
	2538.72	-44.61	-13	-31.61	-56.95	-48.19	4.90	10.63	V
	3384.96	-50.64	-13	-37.64	-65.35	-55.56	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648.68	-44.42	-13	-31.42	-52.53	-47.65	3.98	9.36	H
	2473.02	-45.72	-13	-32.72	-57.74	-49.27	4.85	10.55	H
	3297.36	-53.66	-13	-40.66	-68.55	-58.59	5.50	12.58	H
	1648.14	-46.22	-13	-33.22	-54.39	-49.45	3.98	9.36	V
	2472.21	-46.90	-13	-33.90	-58.96	-50.45	4.85	10.55	V
	3296.28	-50.20	-13	-37.20	-65.00	-55.13	5.50	12.58	V
Middle	1668.68	-42.23	-13	-29.23	-49.91	-45.48	4.00	9.40	H
	2503.02	-47.88	-13	-34.88	-59.94	-51.45	4.88	10.60	H
	3337.36	-54.66	-13	-41.66	-69.44	-59.59	5.52	12.60	H
	1668.68	-47.68	-13	-34.68	-55.53	-50.93	4.00	9.40	V
	2503.02	-47.30	-13	-34.30	-59.47	-50.87	4.88	10.60	V
	3337.36	-52.72	-13	-39.72	-67.50	-57.65	5.52	12.60	V
Highest	1688.68	-42.74	-13	-29.74	-50.47	-45.91	4.10	9.42	H
	2533.02	-45.56	-13	-32.56	-57.82	-49.14	4.90	10.63	H
	3377.36	-53.75	-13	-40.75	-68.45	-58.67	5.55	12.62	H
	2533.02	-44.96	-13	-31.96	-57.27	-48.13	4.10	9.42	V
	3376	-49.90	-13	-36.90	-64.62	-53.48	4.90	10.63	V
	3377.36	-49.90	-13	-36.90	-64.62	-54.82	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649.18	-45.17	-13	-32.17	-53.27	-48.40	3.98	9.36	H
	2473.77	-45.30	-13	-32.30	-57.32	-48.85	4.85	10.55	H
	3298.36	-53.06	-13	-40.06	-67.94	-57.99	5.50	12.58	H
	1649.18	-48.00	-13	-35.00	-56.15	-51.23	3.98	9.36	V
	2473.77	-46.76	-13	-33.76	-58.82	-50.31	4.85	10.55	V
	3298.36	-50.00	-13	-37.00	-64.80	-54.93	5.50	12.58	V
Middle	1664.18	-44.28	-13	-31.28	-52.06	-47.53	4.00	9.40	H
	2496.27	-46.92	-13	-33.92	-58.98	-50.49	4.88	10.60	H
	3328.36	-55.09	-13	-42.09	-69.89	-60.02	5.52	12.60	H
	1664.18	-46.81	-13	-33.81	-54.73	-50.06	4.00	9.40	V
	2496.27	-52.01	-13	-39.01	-64.16	-55.58	4.88	10.60	V
	3328.36	-52.18	-13	-39.18	-66.96	-57.11	5.52	12.60	V
Highest	1679.18	-42.42	-13	-29.42	-50.09	-45.59	4.10	9.42	H
	2518.77	-46.63	-13	-33.63	-58.79	-50.21	4.90	10.63	H
	3358.36	-52.93	-13	-39.93	-67.66	-57.85	5.55	12.62	H
	1679.18	-45.47	-13	-32.47	-53.33	-48.64	4.10	9.42	V
	2518.77	-51.85	-13	-38.85	-64.10	-55.43	4.90	10.63	V
	3358.36	-51.71	-13	-38.71	-66.45	-56.63	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1398.14	-39.44	-13	-26.44	-48.45	-42.67	3.98	9.36	H
	2097.21	-57.72	-13	-44.72	-68.75	-61.27	4.85	10.55	H
	2796.28	-59.14	-13	-46.14	-72.93	-64.07	5.50	12.58	H
	1398.14	-37.33	-13	-24.33	-46.24	-40.56	3.98	9.36	V
	2097.21	-53.07	-13	-40.07	-64.32	-56.62	4.85	10.55	V
	2796.28	-56.82	-13	-43.82	-70.54	-61.75	5.50	12.58	V
Middle	1413.74	-44.39	-13	-31.39	-53.39	-47.64	4.00	9.40	H
	2120.61	-54.37	-13	-41.37	-65.66	-57.94	4.88	10.60	H
	2827.48	-58.00	-13	-45.00	-71.88	-62.93	5.52	12.60	H
	1413.74	-43.17	-13	-30.17	-52.06	-46.42	4.00	9.40	V
	2120.61	-51.49	-13	-38.49	-63.03	-55.06	4.88	10.60	V
	2827.48	-55.10	-13	-42.10	-68.91	-60.03	5.52	12.60	V
Highest	1429.34	-43.08	-13	-30.08	-52.16	-46.25	4.10	9.42	H
	2144.01	-52.63	-13	-39.63	-64.18	-56.21	4.90	10.63	H
	2858.68	-56.80	-13	-43.80	-70.75	-61.72	5.55	12.62	H
	1429.34	-41.11	-13	-28.11	-50.07	-44.28	4.10	9.42	V
	2144.01	-50.58	-13	-37.58	-62.41	-54.16	4.90	10.63	V
	2858.68	-55.88	-13	-42.88	-69.76	-60.80	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1398.3	-38.31	-13	-25.31	-47.32	-41.54	3.98	9.36	H
	2097.45	-57.52	-13	-44.52	-68.55	-61.07	4.85	10.55	H
	2796.6	-58.68	-13	-45.68	-72.47	-63.61	5.50	12.58	H
	1398.3	-37.57	-13	-24.57	-46.48	-40.80	3.98	9.36	V
	2097.45	-53.73	-13	-40.73	-64.98	-57.28	4.85	10.55	V
	2796.6	-55.54	-13	-42.54	-69.26	-60.47	5.50	12.58	V
Middle	1412.3	-41.99	-13	-28.99	-51.00	-45.24	4.00	9.40	H
	2118.45	-54.36	-13	-41.36	-65.63	-57.93	4.88	10.60	H
	2824.6	-57.80	-13	-44.80	-71.67	-62.73	5.52	12.60	H
	1412.3	-41.88	-13	-28.88	-50.78	-45.13	4.00	9.40	V
	2118.45	-50.67	-13	-37.67	-62.19	-54.24	4.88	10.60	V
	2824.6	-54.41	-13	-41.41	-68.22	-59.34	5.52	12.60	V
Highest	1426.3	-43.62	-13	-30.62	-52.71	-46.79	4.10	9.42	H
	2139.45	-55.25	-13	-42.25	-66.75	-58.83	4.90	10.63	H
	2852.6	-57.15	-13	-44.15	-71.08	-62.07	5.55	12.62	H
	1426.3	-41.78	-13	-28.78	-50.75	-44.95	4.10	9.42	V
	2139.45	-53.23	-13	-40.23	-65.01	-56.81	4.90	10.63	V
	2852.6	-55.63	-13	-42.63	-69.50	-60.55	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1398.5	-40.23	-13	-27.23	-49.25	-43.46	3.98	9.36	H
	2097.75	-58.17	-13	-45.17	-69.21	-61.72	4.85	10.55	H
	2797	-58.28	-13	-45.28	-72.08	-63.21	5.50	12.58	H
	1398.5	-37.41	-13	-24.41	-46.33	-40.64	3.98	9.36	V
	2097.75	-55.38	-13	-42.38	-66.64	-58.93	4.85	10.55	V
	2797	-56.54	-13	-43.54	-70.26	-61.47	5.50	12.58	V
Middle	1410.5	-40.19	-13	-27.19	-49.20	-43.44	4.00	9.40	H
	2115.75	-52.42	-13	-39.42	-63.66	-55.99	4.88	10.60	H
	2821	-57.01	-13	-44.01	-70.87	-61.94	5.52	12.60	H
	1410.5	-38.08	-13	-25.08	-46.98	-41.33	4.00	9.40	V
	2115.75	-48.56	-13	-35.56	-60.04	-52.13	4.88	10.60	V
	2821	-55.58	-13	-42.58	-69.37	-60.51	5.52	12.60	V
Highest	1422.5	-43.86	-13	-30.86	-52.96	-47.03	4.10	9.42	H
	2133.75	-57.14	-13	-44.14	-68.57	-60.72	4.90	10.63	H
	2845	-58.97	-13	-45.97	-72.88	-63.89	5.55	12.62	H
	1422.5	-42.76	-13	-29.76	-51.74	-45.93	4.10	9.42	V
	2133.75	-55.26	-13	-42.26	-66.96	-58.84	4.90	10.63	V
	2845	-58.24	-13	-45.24	-72.09	-63.16	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1399	-38.42	-13	-25.42	-47.44	-41.65	3.98	9.36	H
	2098.5	-58.26	-13	-45.26	-69.30	-61.81	4.85	10.55	H
	2798	-59.17	-13	-46.17	-72.98	-64.10	5.50	12.58	H
	1399	-37.12	-13	-24.12	-46.04	-40.35	3.98	9.36	V
	2098.5	-54.64	-13	-41.64	-65.91	-58.19	4.85	10.55	V
	2798	-56.05	-13	-43.05	-69.79	-60.98	5.50	12.58	V
Middle	1406	-39.20	-13	-26.20	-48.22	-42.45	4.00	9.40	H
	2109	-54.96	-13	-41.96	-66.12	-58.53	4.88	10.60	H
	2812	-58.61	-13	-45.61	-72.45	-63.54	5.52	12.60	H
	1406	-37.27	-13	-24.27	-46.18	-40.52	4.00	9.40	V
	2109	-51.18	-13	-38.18	-62.57	-54.75	4.88	10.60	V
	2812	-56.81	-13	-43.81	-70.58	-61.74	5.52	12.60	V
Highest	1413	-42.92	-13	-29.92	-51.93	-46.09	4.10	9.42	H
	2119.5	-53.27	-13	-40.27	-64.55	-56.85	4.90	10.63	H
	2826	-57.51	-13	-44.51	-71.39	-62.43	5.55	12.62	H
	1413	-41.51	-13	-28.51	-50.40	-44.68	4.10	9.42	V
	2119.5	-49.88	-13	-36.88	-61.41	-53.46	4.90	10.63	V
	2826	-54.26	-13	-41.26	-68.07	-59.18	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1554.5	-50.25	-13	-37.25	-59.49	-53.48	3.98	9.36	H
	2331.75	-53.34	-13	-40.34	-65.34	-56.89	4.85	10.55	H
	3109	-56.89	-13	-43.89	-71.64	-61.82	5.50	12.58	H
	1554.5	-51.93	-13	-38.93	-60.94	-55.16	3.98	9.36	V
	2331.75	-49.85	-13	-36.85	-61.88	-53.40	4.85	10.55	V
	3109	-54.22	-13	-41.22	-68.79	-59.15	5.50	12.58	V
Middle	1559.5	-51.85	-40	-11.85	-61.08	-55.10	4.00	9.40	H
	2339.25	-50.81	-13	-37.81	-62.81	-54.38	4.88	10.60	H
	3119	-54.93	-13	-41.93	-69.72	-59.86	5.52	12.60	H
	1559.5	-53.97	-40	-13.97	-62.97	-57.22	4.00	9.40	V
	2339.25	-49.85	-13	-36.85	-61.86	-53.42	4.88	10.60	V
	3119	-53.90	-13	-40.90	-68.50	-58.83	5.52	12.60	V
Highest	1564.5	-51.17	-40	-11.17	-60.39	-54.34	4.10	9.42	H
	2346.75	-53.95	-13	-40.95	-65.94	-57.53	4.90	10.63	H
	3129	-58.24	-13	-45.24	-73.08	-63.16	5.55	12.62	H
	1564.5	-50.94	-40	-10.94	-59.93	-54.11	4.10	9.42	V
	2346.75	-52.63	-13	-39.63	-64.61	-56.21	4.90	10.63	V
	3129	-56.82	-13	-43.82	-71.45	-61.74	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-58.97	-40	-18.97	-68.20	-62.22	4.00	9.40	H
	2339.25	-58.89	-13	-45.89	-70.89	-62.46	4.88	10.60	H
	3119	-60.43	-13	-47.43	-75.22	-65.36	5.52	12.60	H
	1559.5	-60.02	-40	-20.02	-69.02	-63.27	4.00	9.40	V
	2339.25	-58.27	-13	-45.27	-70.28	-61.84	4.88	10.60	V
	3119	-59.47	-13	-46.47	-74.07	-64.40	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.