

FCC RADIO TEST REPORT

FCC ID : PU5-TP00099D
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00099D
Applicant : Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist,
New Taipei City 221, Taiwan
Manufacturer : Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist,
New Taipei City 221, Taiwan
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

The product was received on May 07, 2020 and testing was started from May 26, 2020 and completed on Jun. 05, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan

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History of this test report

Report No.	Version	Description	Issued Date
FG042858B	01	Initial issue of report	Jun. 16, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§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) (Band 17) (Band 25) (Band 26) (Band 66)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
-	§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) (Band 17) (Band 25) (Band 26) (Band 66)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§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) (Band 17) (Band 25) (Band 26) (Band 66)	Pass	Under limit 7.59 dB at 5376.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Note: The module (Model: L860-GL) makes no difference after verifying output power and Radiated Spurious Emission, this report reuses test data from the module report.

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.

Reviewed by: Wii Chang

Report Producer: Vivian Hsu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00099D
FCC ID	PU5-TP00099D
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL tested inside of Lenovo Notebook Computer.

Antenna Information				
WWAN				3G<E (dBi)
Antenna	Manufacturer	WNC	Peak gain	1.66
	Part number	025.901ML.0001	Type	PIFA

1.2 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 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 824.7 MHz ~ 848.3 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 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 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 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 7: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2: 23.61 dBm LTE Band 4: 23.78 dBm LTE Band 5: 23.43 dBm LTE Band 7: 23.50 dBm LTE Band 12: 23.24 dBm LTE Band 13: 23.28 dBm LTE Band 17: 23.14 dBm LTE Band 25: 23.77 dBm LTE Band 26: 23.41 dBm LTE Band 38: 23.58 dBm LTE Band 41: 23.64 dBm LTE Band 66: 23.78 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan
Test Site No.	Sporton Site No.
	TH05-HY
Test Engineer	Jacky Wang
Temperature	23~25°C
Relative Humidity	52~55%

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58 , Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan
Test Site No.	Sporton Site No.
	03CH12-HY
Test Engineer	JC Liang
Temperature	24~26°C
Relative Humidity	65~70%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

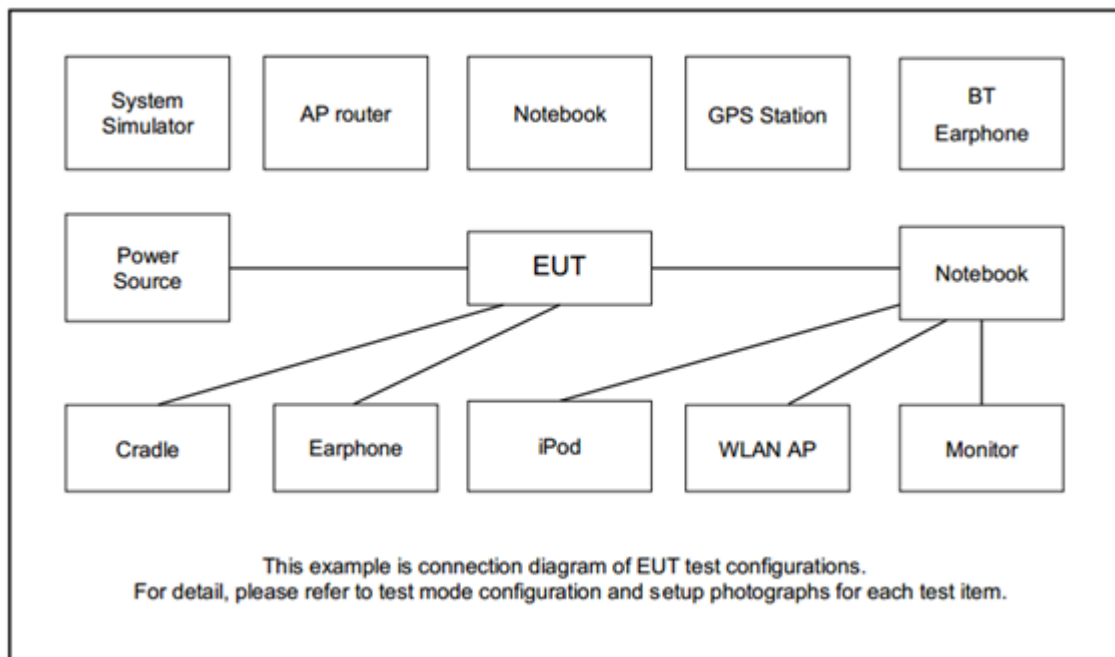
Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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	v
	4	v	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	v
	7	-	-	v	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	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v

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
E.R.P / E.I.R.P	2	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
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	13	Worst Case												v	v	v
	41	Worst Case												v	v	v
Remark	1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. 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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

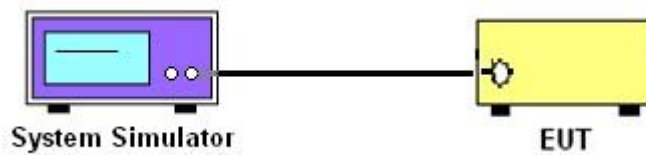
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 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 and Band 26

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66

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

3.2.2 Test Procedures

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

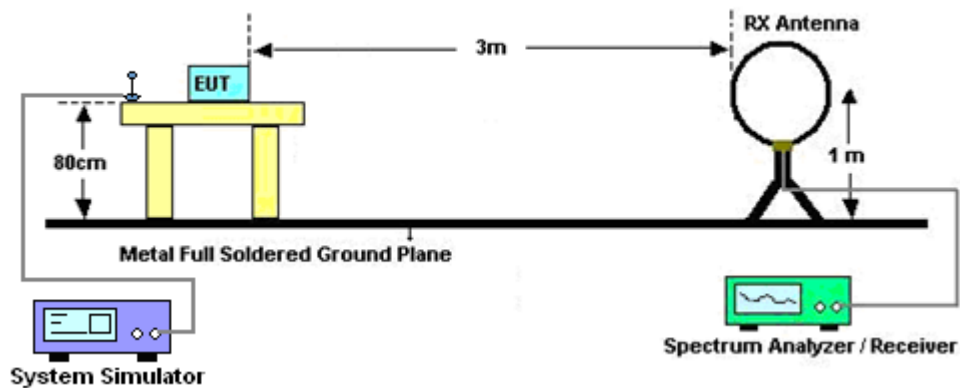
4 Radiated Test Items

4.1 Measuring Instruments

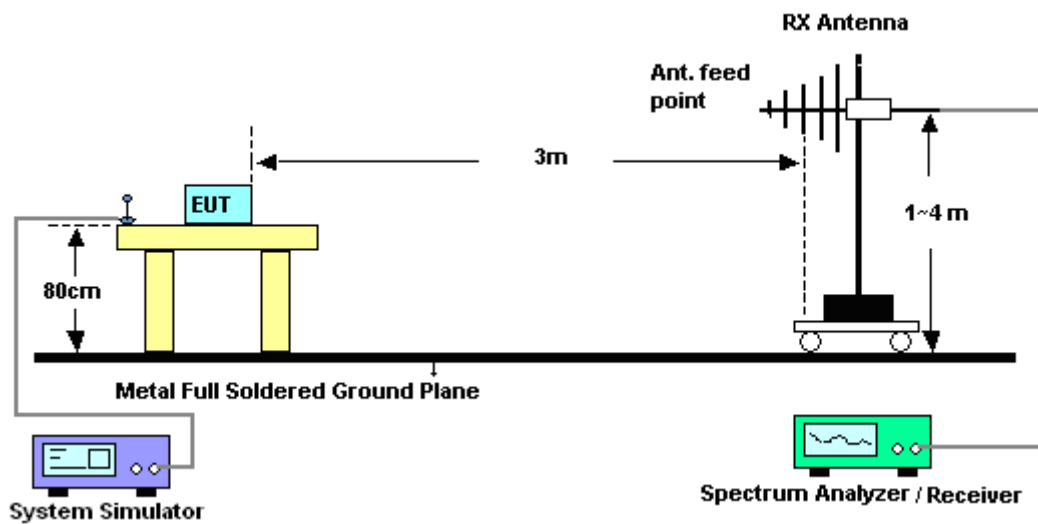
See list of measuring instruments of this test report.

4.1.1 Test Setup

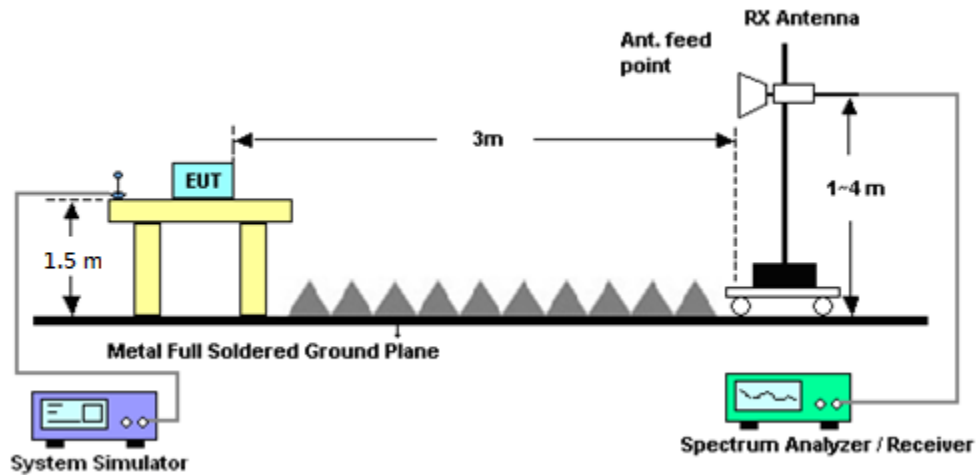
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 41

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 $55 + 10 \log (P)$ 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

For LTE Band 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201107509	-	Jul. 03, 2019	May 26, 2020	Jul. 02, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	May 30, 2020~Jun. 05, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	May 30, 2020~Jun. 05, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 14, 2019	May 30, 2020~Jun. 05, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	May 30, 2020~Jun. 05, 2020	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz ~ 40GHz	Dec. 10, 2019	May 30, 2020~Jun. 05, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170980	18GHz ~ 40GHz	Jan. 10, 2019	May 30, 2020~Jun. 05, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	May 30, 2020~Jun. 05, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	1GHz~18GHz	Feb. 07, 2020	May 30, 2020~Jun. 05, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 30, 2020~Jun. 05, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Dec. 20, 2019	May 30, 2020~Jun. 05, 2020	Dec. 19, 2020	Radiation (03CH12-HY)
Signal Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 12, 2020	May 30, 2020~Jun. 05, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	May 30, 2020~Jun. 05, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Dec. 12, 2019	May 30, 2020~Jun. 05, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	May 30, 2020~Jun. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 25, 2020	May 30, 2020~Jun. 05, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	122990	GSM / GPRS / WCDMA	Dec. 09, 2019	May 30, 2020~Jun. 05, 2020	Dec. 08, 2020	Radiation (03CH12-HY)
Base Station	Anritsu	MT8821C	6201432816	GSM / GPRS / WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA	May 05, 2020	May 30, 2020~Jun. 05, 2020	May 04, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 30, 2020~Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 30, 2020~Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 30, 2020~Jun. 05, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 30, 2020~Jun. 05, 2020	N/A	Radiation (03CH12-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.24
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.62
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.06
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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	23.47	23.60	23.47
20	1	49		23.42	23.61	23.38
20	1	99		23.54	23.45	23.43
20	50	0		22.40	22.61	22.43
20	50	24		22.50	22.64	22.41
20	50	50		22.54	22.58	22.53
20	100	0		22.54	22.64	22.51
20	1	0	16-QAM	22.78	22.88	22.77
20	1	49		22.78	22.90	22.68
20	1	99		22.80	22.79	22.69
20	50	0		21.43	21.59	21.40
20	50	24		21.47	21.61	21.38
20	50	50		21.50	21.59	21.52
20	100	0		21.51	21.62	21.48
20	1	0	64-QAM	21.71	21.79	21.64
20	1	49		21.66	21.78	21.58
20	1	99		21.69	21.68	21.70
20	50	0		20.39	20.62	20.40
20	50	24		20.48	20.64	20.43
20	50	50		20.48	20.59	20.56
20	100	0		20.53	20.63	20.52
15	1	0	QPSK	23.29	23.56	23.43
15	1	37		23.37	23.59	23.29
15	1	74		23.46	23.34	23.34
15	36	0		22.30	22.42	22.25
15	36	20		22.43	22.46	22.34
15	36	39		22.37	22.43	22.43
15	75	0		22.40	22.50	22.43
15	1	0	16-QAM	22.64	22.87	22.70
15	1	37		22.61	22.85	22.67
15	1	74		22.61	22.77	22.55
15	36	0		21.39	21.41	21.36
15	36	20		21.47	21.52	21.36
15	36	39		21.49	21.43	21.52
15	75	0		21.36	21.60	21.37
15	1	0	64-QAM	21.63	21.64	21.58
15	1	37		21.52	21.72	21.51
15	1	74		21.67	21.51	21.66
15	36	0		20.24	20.50	20.27
15	36	20		20.35	20.63	20.24
15	36	39		20.29	20.52	20.47
15	75	0		20.42	20.54	20.35



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.31	23.55	23.35
10	1	25		23.40	23.55	23.28
10	1	49		23.35	23.33	23.34
10	25	0		22.38	22.42	22.33
10	25	12		22.44	22.57	22.40
10	25	25		22.45	22.38	22.33
10	50	0		22.43	22.56	22.31
10	1	0	16-QAM	22.66	22.82	22.66
10	1	25		22.70	22.71	22.61
10	1	49		22.64	22.72	22.53
10	25	0		21.38	21.52	21.30
10	25	12		21.35	21.61	21.37
10	25	25		21.31	21.46	21.51
10	50	0		21.40	21.62	21.45
10	1	0	64-QAM	21.55	21.69	21.53
10	1	25		21.52	21.61	21.41
10	1	49		21.54	21.58	21.62
10	25	0		20.22	20.52	20.24
10	25	12		20.39	20.57	20.23
10	25	25		20.41	20.42	20.40
10	50	0		20.44	20.48	20.38
5	1	0	QPSK	23.34	23.52	23.43
5	1	12		23.30	23.41	23.19
5	1	24		23.41	23.29	23.33
5	12	0		22.37	22.52	22.35
5	12	7		22.37	22.56	22.22
5	12	13		22.50	22.53	22.33
5	25	0		22.40	22.60	22.42
5	1	0	16-QAM	22.61	22.68	22.61
5	1	12		22.77	22.79	22.64
5	1	24		22.70	22.67	22.67
5	12	0		21.28	21.41	21.36
5	12	7		21.42	21.50	21.27
5	12	13		21.41	21.49	21.50
5	25	0		21.42	21.59	21.30
5	1	0	64-QAM	21.66	21.69	21.59
5	1	12		21.63	21.72	21.43
5	1	24		21.67	21.57	21.52
5	12	0		20.21	20.51	20.21
5	12	7		20.35	20.48	20.36
5	12	13		20.33	20.48	20.55
5	25	0		20.47	20.48	20.51



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.42	23.48	23.39
3	1	8		23.39	23.60	23.36
3	1	14		23.37	23.44	23.34
3	8	0		22.40	22.59	22.28
3	8	4		22.34	22.64	22.30
3	8	7		22.37	22.46	22.41
3	15	0		22.54	22.64	22.43
3	1	0	16-QAM	22.58	22.77	22.64
3	1	8		22.73	22.72	22.53
3	1	14		22.61	22.59	22.56
3	8	0		21.37	21.53	21.36
3	8	4		21.45	21.52	21.22
3	8	7		21.50	21.46	21.41
3	15	0		21.34	21.43	21.41
3	1	0	64-QAM	21.59	21.72	21.52
3	1	8		21.58	21.72	21.43
3	1	14		21.50	21.60	21.65
3	8	0		20.26	20.43	20.28
3	8	4		20.33	20.52	20.37
3	8	7		20.35	20.48	20.54
3	15	0		20.48	20.47	20.36
1.4	1	0	QPSK	23.44	23.43	23.35
1.4	1	3		23.31	23.59	23.38
1.4	1	5		23.38	23.30	23.41
1.4	3	0		22.29	22.45	22.28
1.4	3	1		22.31	22.59	22.27
1.4	3	3		22.52	22.45	22.46
1.4	6	0		22.36	22.51	22.32
1.4	1	0	16-QAM	22.65	22.76	22.73
1.4	1	3		22.76	22.87	22.51
1.4	1	5		22.71	22.65	22.49
1.4	3	0		21.38	21.41	21.21
1.4	3	1		21.31	21.44	21.31
1.4	3	3		21.33	21.54	21.41
1.4	6	0		21.46	21.49	21.39
1.4	1	0	64-QAM	21.64	21.74	21.57
1.4	1	3		21.63	21.76	21.50
1.4	1	5		21.67	21.64	21.65
1.4	3	0		20.33	20.56	20.21
1.4	3	1		20.48	20.59	20.37
1.4	3	3		20.29	20.41	20.51
1.4	6	0		20.35	20.51	20.36



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.77	23.65	23.59
20	1	49		23.49	23.71	23.54
20	1	99		23.59	23.51	23.59
20	50	0		22.62	22.70	22.62
20	50	24		22.62	22.68	22.48
20	50	50		22.62	22.60	22.51
20	100	0		22.62	22.66	22.55
20	1	0	16-QAM	23.00	22.96	22.94
20	1	49		23.00	22.95	22.80
20	1	99		23.00	22.86	22.85
20	50	0		21.80	21.70	21.59
20	50	24		21.85	21.66	21.47
20	50	50		21.45	21.60	21.46
20	100	0		21.52	21.65	21.54
20	1	0	64-QAM	21.94	21.78	21.87
20	1	49		21.68	21.84	21.75
20	1	99		21.73	21.75	21.73
20	50	0		20.60	20.69	20.63
20	50	24		20.49	20.69	20.51
20	50	50		20.48	20.61	20.48
20	100	0		20.52	20.65	20.55
15	1	0	QPSK	23.66	23.61	23.40
15	1	37		23.43	23.66	23.50
15	1	74		23.44	23.33	23.58
15	36	0		22.53	22.53	22.42
15	36	20		22.43	22.57	22.34
15	36	39		22.58	22.42	22.36
15	75	0		22.43	22.60	22.53
15	1	0	16-QAM	22.80	22.83	22.90
15	1	37		22.83	22.97	22.60
15	1	74		22.92	22.77	22.65
15	36	0		21.84	21.53	21.51
15	36	20		21.79	21.64	21.38
15	36	39		21.44	21.51	21.39
15	75	0		21.43	21.50	21.44
15	1	0	64-QAM	21.88	21.60	21.76
15	1	37		21.51	21.82	21.59
15	1	74		21.57	21.75	21.61
15	36	0		20.48	20.64	20.59
15	36	20		20.49	20.59	20.48
15	36	39		20.30	20.51	20.48
15	75	0		20.35	20.53	20.39



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.64	23.54	23.48
10	1	25		23.38	23.54	23.44
10	1	49		23.41	23.45	23.41
10	25	0		22.58	22.68	22.51
10	25	12		22.62	22.63	22.43
10	25	25		22.55	22.57	22.37
10	50	0		22.56	22.64	22.45
10	1	0	16-QAM	22.99	22.76	22.88
10	1	25		22.94	22.89	22.62
10	1	49		22.81	22.86	22.80
10	25	0		21.75	21.58	21.45
10	25	12		21.69	21.48	21.35
10	25	25		21.28	21.52	21.26
10	50	0		21.45	21.63	21.46
10	1	0	64-QAM	21.77	21.73	21.76
10	1	25		21.61	21.65	21.57
10	1	49		21.72	21.58	21.61
10	25	0		20.48	20.62	20.45
10	25	12		20.33	20.53	20.51
10	25	25		20.33	20.47	20.48
10	50	0		20.33	20.45	20.40
5	1	0	QPSK	23.72	23.63	23.46
5	1	12		23.42	23.61	23.48
5	1	24		23.58	23.40	23.51
5	12	0		22.44	22.66	22.56
5	12	7		22.46	22.67	22.37
5	12	13		22.55	22.40	22.34
5	25	0		22.46	22.54	22.41
5	1	0	16-QAM	23.00	22.79	22.88
5	1	12		22.90	22.92	22.71
5	1	24		22.82	22.69	22.71
5	12	0		21.89	21.65	21.39
5	12	7		21.92	21.46	21.28
5	12	13		21.38	21.54	21.27
5	25	0		21.36	21.65	21.46
5	1	0	64-QAM	21.89	21.74	21.82
5	1	12		21.58	21.79	21.65
5	1	24		21.72	21.74	21.73
5	12	0		20.55	20.49	20.50
5	12	7		20.40	20.59	20.46
5	12	13		20.45	20.42	20.46
5	25	0		20.35	20.49	20.43



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.57	23.61	23.41
3	1	8		23.34	23.61	23.41
3	1	14		23.57	23.39	23.42
3	8	0		22.45	22.66	22.59
3	8	4		22.49	22.59	22.32
3	8	7		22.54	22.50	22.43
3	15	0		22.57	22.64	22.50
3	1	0	16-QAM	22.81	22.96	22.86
3	1	8		22.95	22.94	22.68
3	1	14		22.93	22.77	22.72
3	8	0		21.84	21.56	21.55
3	8	4		21.87	21.54	21.39
3	8	7		21.25	21.41	21.43
3	15	0		21.36	21.53	21.43
3	1	0	64-QAM	21.78	21.72	21.87
3	1	8		21.61	21.70	21.74
3	1	14		21.56	21.63	21.65
3	8	0		20.54	20.53	20.59
3	8	4		20.47	20.68	20.40
3	8	7		20.32	20.57	20.48
3	15	0		20.42	20.56	20.36
1.4	1	0	QPSK	23.57	23.55	23.46
1.4	1	3		23.39	23.55	23.42
1.4	1	5		23.43	23.47	23.39
1.4	3	0		22.60	22.54	22.60
1.4	3	1		22.62	22.53	22.34
1.4	3	3		22.60	22.60	22.42
1.4	6	0		22.55	22.47	22.39
1.4	1	0	16-QAM	22.90	22.76	22.86
1.4	1	3		22.85	22.86	22.71
1.4	1	5		22.95	22.66	22.79
1.4	3	0		22.86	21.59	21.40
1.4	3	1		22.98	21.57	21.33
1.4	3	3		21.36	21.54	21.42
1.4	6	0		21.44	21.48	21.43
1.4	1	0	64-QAM	21.79	21.66	21.77
1.4	1	3		21.49	21.69	21.72
1.4	1	5		21.58	21.75	21.60
1.4	3	0		20.48	20.67	20.57
1.4	3	1		20.29	20.50	20.46
1.4	3	3		20.39	20.43	20.47
1.4	6	0		20.39	20.58	20.39



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.75	23.64	23.78
20	1	49		23.54	23.58	23.72
20	1	99		23.55	23.70	23.56
20	50	0		22.70	22.66	22.73
20	50	24		22.54	22.62	22.73
20	50	50		22.62	22.67	22.57
20	100	0		22.62	22.69	22.72
20	1	0	16-QAM	22.98	23.00	22.96
20	1	49		22.86	22.94	22.95
20	1	99		22.90	23.00	22.92
20	50	0		21.70	21.67	21.76
20	50	24		21.53	21.63	21.77
20	50	50		21.63	21.70	21.57
20	100	0		21.62	21.69	21.73
20	1	0	64-QAM	21.90	21.93	21.94
20	1	49		21.81	21.83	21.96
20	1	99		21.78	21.91	21.81
20	50	0		20.71	20.67	20.78
20	50	24		20.56	20.61	20.78
20	50	50		20.67	20.69	20.60
20	100	0		20.66	20.67	20.75
15	1	0	QPSK	23.70	23.58	23.77
15	1	37		23.48	23.40	23.53
15	1	74		23.43	23.55	23.39
15	36	0		22.68	22.53	22.69
15	36	20		22.40	22.56	22.59
15	36	39		22.48	22.61	22.41
15	75	0		22.49	22.68	22.68
15	1	0	16-QAM	22.90	22.93	22.95
15	1	37		22.67	22.75	22.86
15	1	74		22.73	22.87	22.74
15	36	0		21.58	21.67	21.56
15	36	20		21.33	21.63	21.76
15	36	39		21.51	21.58	21.46
15	75	0		21.44	21.58	21.71
15	1	0	64-QAM	21.86	21.78	21.85
15	1	37		21.79	21.69	21.92
15	1	74		21.68	21.89	21.64
15	36	0		20.60	20.51	20.71
15	36	20		20.38	20.46	20.70
15	36	39		20.47	20.65	20.60
15	75	0		20.48	20.54	20.65



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.66	23.49	23.69
10	1	25		23.48	23.51	23.65
10	1	49		23.49	23.54	23.50
10	25	0		22.66	22.46	22.65
10	25	12		22.50	22.44	22.53
10	25	25		22.59	22.53	22.46
10	50	0		22.51	22.66	22.70
10	1	0	16-QAM	23.00	22.85	22.96
10	1	25		22.83	22.75	22.94
10	1	49		22.84	22.94	22.77
10	25	0		21.65	21.65	21.71
10	25	12		21.46	21.49	21.60
10	25	25		21.59	21.51	21.45
10	50	0		21.51	21.61	21.71
10	1	0	64-QAM	21.92	21.91	21.75
10	1	25		21.70	21.81	21.79
10	1	49		21.76	21.78	21.61
10	25	0		20.60	20.49	20.61
10	25	12		20.39	20.51	20.78
10	25	25		20.62	20.64	20.44
10	50	0		20.54	20.53	20.71
5	1	0	QPSK	23.71	23.50	23.76
5	1	12		23.50	23.49	23.64
5	1	24		23.40	23.70	23.52
5	12	0		22.53	22.60	22.66
5	12	7		22.43	22.53	22.69
5	12	13		22.50	22.50	22.51
5	25	0		22.52	22.61	22.70
5	1	0	16-QAM	22.91	22.98	22.93
5	1	12		22.74	22.84	22.88
5	1	24		22.87	22.92	22.72
5	12	0		21.53	21.55	21.68
5	12	7		21.33	21.48	21.69
5	12	13		21.63	21.60	21.40
5	25	0		21.56	21.54	21.53
5	1	0	64-QAM	21.93	21.91	21.94
5	1	12		21.75	21.71	21.79
5	1	24		21.68	21.90	21.74
5	12	0		20.52	20.62	20.75
5	12	7		20.56	20.41	20.61
5	12	13		20.53	20.51	20.60
5	25	0		20.61	20.60	20.61



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.68	23.54	23.72
3	1	8		23.37	23.52	23.63
3	1	14		23.37	23.55	23.37
3	8	0		22.65	22.54	22.56
3	8	4		22.39	22.42	22.69
3	8	7		22.54	22.55	22.57
3	15	0		22.54	22.67	22.56
3	1	0	16-QAM	22.93	22.83	22.96
3	1	8		22.77	22.83	22.97
3	1	14		22.83	22.89	22.86
3	8	0		21.52	21.65	21.68
3	8	4		21.51	21.43	21.58
3	8	7		21.56	21.64	21.40
3	15	0		21.49	21.65	21.68
3	1	0	64-QAM	21.94	21.74	21.92
3	1	8		21.79	21.69	21.93
3	1	14		21.65	21.81	21.69
3	8	0		20.71	20.54	20.58
3	8	4		20.37	20.42	20.69
3	8	7		20.57	20.62	20.57
3	15	0		20.60	20.57	20.74
1.4	1	0	QPSK	23.56	23.47	23.69
1.4	1	3		23.51	23.38	23.64
1.4	1	5		23.48	23.57	23.55
1.4	3	0		22.55	22.65	22.64
1.4	3	1		22.48	22.44	22.56
1.4	3	3		22.43	22.59	22.54
1.4	6	0		22.51	22.54	22.65
1.4	1	0	16-QAM	22.95	22.82	22.99
1.4	1	3		22.78	22.79	23.00
1.4	1	5		22.84	22.89	22.77
1.4	3	0		21.61	21.55	21.69
1.4	3	1		21.41	21.56	21.68
1.4	3	3		21.59	21.64	21.56
1.4	6	0		21.62	21.67	21.53
1.4	1	0	64-QAM	21.95	21.82	21.80
1.4	1	3		21.80	21.78	21.87
1.4	1	5		21.77	21.71	21.67
1.4	3	0		20.68	20.54	20.72
1.4	3	1		20.48	20.54	20.75
1.4	3	3		20.51	20.53	20.53
1.4	6	0		20.47	20.61	20.63



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.33	23.40	23.36
10	1	25		23.32	23.40	23.32
10	1	49		23.43	23.36	23.36
10	25	0		22.28	22.37	22.29
10	25	12		22.31	22.37	22.31
10	25	25		22.38	22.35	22.25
10	50	0		22.33	22.39	22.33
10	1	0	16-QAM	22.70	22.76	22.65
10	1	25		22.68	22.73	22.59
10	1	49		22.75	22.62	22.60
10	25	0		21.28	21.40	21.28
10	25	12		21.34	21.38	21.30
10	25	25		21.42	21.36	21.26
10	50	0		21.38	21.37	21.34
10	1	0	64-QAM	21.56	21.66	21.62
10	1	25		21.58	21.60	21.54
10	1	49		21.68	21.55	21.56
10	25	0		20.29	20.35	20.28
10	25	12		20.36	20.34	20.30
10	25	25		20.41	20.31	20.26
10	50	0		20.38	20.32	20.33
5	1	0	QPSK	23.29	23.39	23.26
5	1	12		23.20	23.40	23.12
5	1	24		23.33	23.18	23.35
5	12	0		22.21	22.31	22.11
5	12	7		22.21	22.25	22.30
5	12	13		22.35	22.17	22.14
5	25	0		22.32	22.39	22.28
5	1	0	16-QAM	22.54	22.74	22.64
5	1	12		22.61	22.70	22.40
5	1	24		22.55	22.59	22.42
5	12	0		21.16	21.22	21.14
5	12	7		21.31	21.37	21.10
5	12	13		21.28	21.36	21.14
5	25	0		21.19	21.18	21.16
5	1	0	64-QAM	21.42	21.59	21.45
5	1	12		21.39	21.53	21.46
5	1	24		21.52	21.52	21.54
5	12	0		20.26	20.30	20.18
5	12	7		20.23	20.21	20.15
5	12	13		20.24	20.30	20.13
5	25	0		20.32	20.17	20.30



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.14	23.36	23.26
3	1	8		23.30	23.33	23.30
3	1	14		23.25	23.25	23.36
3	8	0		22.24	22.23	22.23
3	8	4		22.11	22.26	22.23
3	8	7		22.21	22.27	22.15
3	15	0		22.20	22.38	22.13
3	1	0	16-QAM	22.66	22.70	22.45
3	1	8		22.48	22.73	22.41
3	1	14		22.69	22.47	22.44
3	8	0		21.28	21.20	21.26
3	8	4		21.32	21.20	21.17
3	8	7		21.33	21.30	21.23
3	15	0		21.23	21.30	21.15
3	1	0	64-QAM	21.46	21.55	21.52
3	1	8		21.57	21.52	21.45
3	1	14		21.61	21.54	21.39
3	8	0		20.19	20.34	20.18
3	8	4		20.23	20.23	20.24
3	8	7		20.25	20.28	20.08
3	15	0		20.18	20.27	20.25
1.4	1	0	QPSK	23.16	23.20	23.31
1.4	1	3		23.20	23.20	23.28
1.4	1	5		23.26	23.25	23.30
1.4	3	0		22.25	22.28	22.16
1.4	3	1		22.25	22.25	22.19
1.4	3	3		22.21	22.26	22.08
1.4	6	0		22.32	22.32	22.31
1.4	1	0	16-QAM	22.59	22.61	22.65
1.4	1	3		22.58	22.68	22.48
1.4	1	5		22.55	22.49	22.48
1.4	3	0		21.11	21.35	21.14
1.4	3	1		21.33	21.32	21.10
1.4	3	3		21.27	21.27	21.14
1.4	6	0		21.26	21.33	21.29
1.4	1	0	64-QAM	21.50	21.62	21.49
1.4	1	3		21.51	21.54	21.50
1.4	1	5		21.66	21.40	21.50
1.4	3	0		20.09	20.30	20.20
1.4	3	1		20.19	20.14	20.13
1.4	3	3		20.25	20.21	20.23
1.4	6	0		20.24	20.31	20.29



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.00	23.10	23.17
20	1	49		23.36	23.28	23.34
20	1	99		23.27	23.50	23.25
20	50	0		22.21	22.19	22.30
20	50	24		22.34	22.38	22.36
20	50	50		22.29	22.66	22.26
20	100	0		22.40	22.50	22.42
20	1	0	16-QAM	22.33	22.50	22.54
20	1	49		22.68	22.63	22.71
20	1	99		22.74	22.84	22.57
20	50	0		21.23	21.24	21.35
20	50	24		21.35	21.41	21.41
20	50	50		21.34	21.68	21.28
20	100	0		21.41	21.52	21.45
20	1	0	64-QAM	21.29	21.44	21.44
20	1	49		21.59	21.52	21.69
20	1	99		21.57	21.76	21.53
20	50	0		20.23	20.22	20.33
20	50	24		20.34	20.39	20.39
20	50	50		20.31	20.69	20.29
20	100	0		20.38	20.50	20.42
15	1	0	QPSK	22.85	23.04	23.00
15	1	37		23.32	23.19	23.19
15	1	74		23.26	23.32	23.24
15	36	0		22.04	22.14	22.16
15	36	20		22.24	22.36	22.33
15	36	39		22.14	22.55	22.20
15	75	0		22.40	22.32	22.25
15	1	0	16-QAM	22.14	22.47	22.54
15	1	37		22.56	22.60	22.70
15	1	74		22.58	22.79	22.52
15	36	0		21.14	21.15	21.20
15	36	20		21.25	21.32	21.37
15	36	39		21.21	21.60	21.20
15	75	0		21.22	21.43	21.35
15	1	0	64-QAM	21.28	21.24	21.27
15	1	37		21.52	21.45	21.69
15	1	74		21.44	21.71	21.33
15	36	0		20.04	20.12	20.24
15	36	20		20.28	20.38	20.21
15	36	39		20.13	20.69	20.23
15	75	0		20.21	20.35	20.41



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.89	22.92	22.97
10	1	25		23.30	23.27	23.21
10	1	49		23.24	23.32	23.21
10	25	0		22.09	22.03	22.21
10	25	12		22.17	22.24	22.35
10	25	25		22.16	22.60	22.08
10	50	0		22.20	22.36	22.23
10	1	0	16-QAM	22.32	22.39	22.35
10	1	25		22.59	22.48	22.69
10	1	49		22.67	22.68	22.52
10	25	0		21.08	21.14	21.20
10	25	12		21.26	21.33	21.31
10	25	25		21.31	21.58	21.21
10	50	0		21.24	21.34	21.38
10	1	0	64-QAM	21.24	21.33	21.32
10	1	25		21.59	21.34	21.66
10	1	49		21.50	21.73	21.39
10	25	0		20.16	20.04	20.23
10	25	12		20.20	20.32	20.34
10	25	25		20.14	20.62	20.27
10	50	0		20.37	20.48	20.24
5	1	0	QPSK	22.98	22.99	23.00
5	1	12		23.36	23.08	23.16
5	1	24		23.08	23.39	23.11
5	12	0		22.14	22.03	22.27
5	12	7		22.24	22.34	22.16
5	12	13		22.11	22.54	22.25
5	25	0		22.24	22.38	22.28
5	1	0	16-QAM	22.20	22.46	22.34
5	1	12		22.51	22.57	22.66
5	1	24		22.62	22.77	22.42
5	12	0		21.11	21.09	21.21
5	12	7		21.28	21.31	21.23
5	12	13		21.33	21.63	21.28
5	25	0		21.29	21.33	21.44
5	1	0	64-QAM	21.29	21.25	21.42
5	1	12		21.45	21.48	21.58
5	1	24		21.51	21.67	21.45
5	12	0		20.09	20.03	20.19
5	12	7		20.25	20.31	20.39
5	12	13		20.31	20.52	20.14
5	25	0		20.31	20.44	20.25



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.99	23.03	23.19
10	1	25		23.13	23.22	23.03
10	1	49		23.24	23.05	23.08
10	25	0		22.06	22.07	22.07
10	25	12		22.11	22.21	21.99
10	25	25		22.28	22.05	22.05
10	50	0		22.13	22.25	22.03
10	1	0	16-QAM	22.29	22.34	22.47
10	1	25		22.44	22.57	22.33
10	1	49		22.49	22.35	22.39
10	25	0		21.04	21.06	21.11
10	25	12		21.09	21.22	20.99
10	25	25		21.28	21.07	21.06
10	50	0		21.11	21.23	21.01
10	1	0	64-QAM	21.25	21.31	21.47
10	1	25		21.41	21.49	21.30
10	1	49		21.46	21.32	21.36
10	25	0		20.03	20.05	20.09
10	25	12		20.06	20.20	20.00
10	25	25		20.25	20.05	20.06
10	50	0		20.12	20.20	20.00
5	1	0	QPSK	22.94	22.98	23.08
5	1	12		23.02	23.20	22.97
5	1	24		23.17	23.03	22.96
5	12	0		22.03	21.88	21.99
5	12	7		22.10	22.05	21.98
5	12	13		22.26	21.99	22.05
5	25	0		21.97	22.11	21.92
5	1	0	16-QAM	22.22	22.27	22.39
5	1	12		22.41	22.49	22.15
5	1	24		22.42	22.26	22.31
5	12	0		20.84	20.92	20.93
5	12	7		20.99	21.06	20.88
5	12	13		21.20	20.95	21.02
5	25	0		20.93	21.14	20.93
5	1	0	64-QAM	21.14	21.27	21.33
5	1	12		21.27	21.31	21.30
5	1	24		21.29	21.21	21.18
5	12	0		19.91	19.90	19.95
5	12	7		20.04	20.13	19.97
5	12	13		20.15	19.86	19.92
5	25	0		20.10	20.18	19.92



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.86	22.97	23.19
3	1	8		23.05	23.09	22.94
3	1	14		23.05	23.03	23.06
3	8	0		22.04	22.06	22.06
3	8	4		22.09	22.07	21.89
3	8	7		22.16	22.04	21.98
3	15	0		21.96	22.19	21.86
3	1	0	16-QAM	22.28	22.34	22.28
3	1	8		22.43	22.56	22.31
3	1	14		22.32	22.15	22.27
3	8	0		21.01	21.03	21.08
3	8	4		21.04	21.04	20.86
3	8	7		21.15	20.97	20.95
3	15	0		21.05	21.20	20.94
3	1	0	64-QAM	21.24	21.20	21.38
3	1	8		21.33	21.45	21.14
3	1	14		21.32	21.20	21.28
3	8	0		19.86	19.87	20.04
3	8	4		19.86	20.00	19.89
3	8	7		20.21	19.98	19.95
3	15	0		19.93	20.13	19.90
1.4	1	0	QPSK	22.80	22.84	23.01
1.4	1	3		23.10	23.17	22.96
1.4	1	5		23.07	22.94	23.04
1.4	3	0		22.02	22.03	22.07
1.4	3	1		22.05	22.06	22.05
1.4	3	3		22.28	22.01	22.10
1.4	6	0		22.04	22.18	21.96
1.4	1	0	16-QAM	22.20	22.19	22.29
1.4	1	3		22.29	22.43	22.17
1.4	1	5		22.43	22.34	22.33
1.4	3	0		21.05	21.02	21.02
1.4	3	1		21.03	21.06	21.00
1.4	3	3		21.18	21.01	21.06
1.4	6	0		21.09	21.11	20.83
1.4	1	0	64-QAM	21.06	21.15	21.39
1.4	1	3		21.28	21.49	21.18
1.4	1	5		21.39	21.23	21.30
1.4	3	0		20.01	20.00	20.05
1.4	3	1		20.02	20.04	20.04
1.4	3	3		20.17	20.01	20.01
1.4	6	0		20.10	20.13	19.93



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	23.04	-
10	1	25			23.21	
10	1	49			23.28	
10	25	0			22.06	
10	25	12			22.05	
10	25	25			22.17	
10	50	0			22.16	
10	1	0	16-QAM		22.36	
10	1	25			22.58	
10	1	49			22.68	
10	25	0			21.07	
10	25	12			21.05	
10	25	25			21.15	
10	50	0			21.14	
10	1	0	64-QAM		21.30	
10	1	25			21.43	
10	1	49			21.53	
10	25	0			20.05	
10	25	12			20.05	
10	25	25			20.16	
10	50	0			20.18	
5	1	0	QPSK	22.88	22.98	22.89
5	1	12		23.07	23.20	23.12
5	1	24		23.11	23.15	23.17
5	12	0		22.01	21.96	21.89
5	12	7		21.90	21.87	22.01
5	12	13		21.97	21.97	22.00
5	25	0		21.96	22.09	22.16
5	1	0	16-QAM	22.35	22.18	22.36
5	1	12		22.45	22.45	22.47
5	1	24		22.57	22.68	22.68
5	12	0		21.02	20.92	20.93
5	12	7		20.90	20.85	20.92
5	12	13		21.02	21.05	20.99
5	25	0		21.12	21.05	21.08
5	1	0	64-QAM	21.18	21.29	21.17
5	1	12		21.28	21.33	21.43
5	1	24		21.52	21.40	21.50
5	12	0		20.04	19.97	19.94
5	12	7		20.00	19.95	19.97
5	12	13		20.04	20.16	20.02
5	25	0		20.15	20.07	19.99



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.09	23.05	23.11
10	1	25		22.98	23.04	23.01
10	1	49		23.14	23.09	23.03
10	25	0		22.00	22.18	22.14
10	25	12		22.02	22.09	21.97
10	25	25		22.05	22.00	22.01
10	50	0		21.96	22.08	22.03
10	1	0	16-QAM	22.39	22.38	22.39
10	1	25		22.27	22.41	22.33
10	1	49		22.54	22.44	22.26
10	25	0		21.01	21.17	21.16
10	25	12		21.00	21.12	20.99
10	25	25		21.06	21.03	21.02
10	50	0		20.99	21.05	21.00
10	1	0	64-QAM	21.29	21.29	21.38
10	1	25		21.19	21.30	21.25
10	1	49		21.45	21.37	21.27
10	25	0		19.98	20.17	20.14
10	25	12		19.98	20.09	19.97
10	25	25		20.03	19.94	20.01
10	50	0		19.99	20.02	19.99
5	1	0	QPSK	22.96	22.96	23.10
5	1	12		22.83	22.93	22.88
5	1	24		23.00	23.08	22.89
5	12	0		21.87	22.16	22.04
5	12	7		21.87	21.96	21.82
5	12	13		21.98	21.91	21.88
5	25	0		21.96	21.92	21.91
5	1	0	16-QAM	22.19	22.35	22.21
5	1	12		22.13	22.41	22.16
5	1	24		22.49	22.41	22.06
5	12	0		20.98	21.15	21.01
5	12	7		20.85	21.08	20.82
5	12	13		20.90	20.87	21.02
5	25	0		20.88	20.99	20.84
5	1	0	64-QAM	21.26	21.23	21.21
5	1	12		21.04	21.19	21.24
5	1	24		21.40	21.33	21.17
5	12	0		19.84	20.02	20.10
5	12	7		19.90	19.99	19.88
5	12	13		20.00	19.86	19.97
5	25	0		19.87	19.96	19.85



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.30	23.30	23.38
15	1	37		23.41	23.38	23.31
15	1	74		23.40	23.39	23.38
15	36	0		22.37	22.27	22.32
15	36	20		22.40	22.38	22.30
15	36	39		22.36	22.36	22.31
15	75	0		22.42	22.41	22.34
15	1	0	16-QAM	22.62	22.63	22.71
15	1	37		22.69	22.71	22.62
15	1	74		22.71	22.68	22.67
15	36	0		21.35	21.25	21.31
15	36	20		21.39	21.38	21.27
15	36	39		21.34	21.36	21.31
15	75	0		21.41	21.40	21.31
15	1	0	64-QAM	21.57	21.51	21.58
15	1	37		21.64	21.66	21.49
15	1	74		21.66	21.58	21.52
15	36	0		20.33	20.29	20.32
15	36	20		20.38	20.41	20.27
15	36	39		20.34	20.39	20.26
15	75	0		20.41	20.43	20.30
10	1	0	QPSK	23.22	23.20	23.19
10	1	25		23.28	23.19	23.18
10	1	49		23.28	23.19	23.34
10	25	0		22.25	22.18	22.31
10	25	12		22.39	22.35	22.22
10	25	25		22.19	22.30	22.30
10	50	0		22.37	22.29	22.22
10	1	0	16-QAM	22.47	22.44	22.66
10	1	25		22.63	22.57	22.46
10	1	49		22.61	22.67	22.47
10	25	0		21.31	21.05	21.24
10	25	12		21.23	21.19	21.14
10	25	25		21.27	21.20	21.15
10	50	0		21.31	21.27	21.13
10	1	0	64-QAM	21.55	21.38	21.41
10	1	25		21.49	21.46	21.35
10	1	49		21.63	21.41	21.34
10	25	0		20.21	20.23	20.30
10	25	12		20.34	20.35	20.13
10	25	25		20.27	20.19	20.08
10	50	0		20.36	20.35	20.16



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.19	23.15	23.27
5	1	12		23.41	23.35	23.15
5	1	24		23.34	23.31	23.28
5	12	0		22.25	22.17	22.22
5	12	7		22.34	22.32	22.22
5	12	13		22.29	22.35	22.13
5	25	0		22.33	22.30	22.15
5	1	0	16-QAM	22.61	22.49	22.70
5	1	12		22.67	22.52	22.53
5	1	24		22.53	22.55	22.58
5	12	0		21.21	21.16	21.17
5	12	7		21.38	21.34	21.24
5	12	13		21.22	21.26	21.28
5	25	0		21.22	21.40	21.23
5	1	0	64-QAM	21.51	21.49	21.41
5	1	12		21.47	21.52	21.49
5	1	24		21.65	21.48	21.47
5	12	0		20.18	20.12	20.18
5	12	7		20.28	20.40	20.25
5	12	13		20.34	20.19	20.07
5	25	0		20.39	20.31	20.10
3	1	0	QPSK	23.24	23.28	23.32
3	1	8		23.38	23.38	23.23
3	1	14		23.34	23.39	23.36
3	8	0		22.28	22.19	22.19
3	8	4		22.33	22.21	22.21
3	8	7		22.19	22.35	22.17
3	15	0		22.25	22.23	22.23
3	1	0	16-QAM	22.43	22.59	22.57
3	1	8		22.61	22.69	22.59
3	1	14		22.61	22.66	22.62
3	8	0		21.29	21.25	21.17
3	8	4		21.31	21.32	21.08
3	8	7		21.26	21.32	21.16
3	15	0		21.32	21.39	21.18
3	1	0	64-QAM	21.46	21.49	21.58
3	1	8		21.47	21.58	21.37
3	1	14		21.52	21.50	21.36
3	8	0		20.32	20.20	20.22
3	8	4		20.29	20.35	20.09
3	8	7		20.20	20.20	20.20
3	15	0		20.40	20.33	20.19



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.17	23.29	23.32
1.4	1	3		23.36	23.25	23.29
1.4	1	5		23.33	23.28	23.32
1.4	3	0		22.18	22.23	22.17
1.4	3	1		22.39	22.20	22.25
1.4	3	3		22.32	22.29	22.11
1.4	6	0		22.39	22.27	22.34
1.4	1	0	16-QAM	22.62	22.43	22.67
1.4	1	3		22.54	22.64	22.59
1.4	1	5		22.63	22.61	22.61
1.4	3	0		21.31	21.05	21.26
1.4	3	1		21.21	21.36	21.12
1.4	3	3		21.18	21.26	21.21
1.4	6	0		21.33	21.34	21.11
1.4	1	0	64-QAM	21.39	21.51	21.39
1.4	1	3		21.61	21.53	21.37
1.4	1	5		21.46	21.42	21.50
1.4	3	0		20.30	20.11	20.13
1.4	3	1		20.18	20.38	20.22
1.4	3	3		20.15	20.33	20.18
1.4	6	0		20.38	20.43	20.11



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.58	23.27	23.49
20	1	49		23.44	23.38	23.45
20	1	99		23.50	23.56	23.44
20	50	0		22.48	22.31	22.48
20	50	24		22.44	22.37	22.43
20	50	50		22.40	22.46	22.40
20	100	0		22.45	22.38	22.45
20	1	0	16-QAM	22.73	22.41	22.66
20	1	49		22.61	22.53	22.61
20	1	99		22.66	22.73	22.63
20	50	0		21.49	21.31	21.49
20	50	24		21.45	21.38	21.43
20	50	50		21.38	21.46	21.41
20	100	0		21.44	21.38	21.44
20	1	0	64-QAM	21.72	21.39	21.67
20	1	49		21.57	21.52	21.59
20	1	99		21.62	21.70	21.57
20	50	0		20.51	20.31	20.49
20	50	24		20.43	20.41	20.44
20	50	50		20.37	20.47	20.44
20	100	0		20.43	20.41	20.45
15	1	0	QPSK	23.44	23.27	23.45
15	1	37		23.40	23.18	23.26
15	1	74		23.38	23.55	23.33
15	36	0		22.42	22.24	22.32
15	36	20		22.32	22.26	22.23
15	36	39		22.20	22.36	22.26
15	75	0		22.35	22.21	22.37
15	1	0	16-QAM	22.72	22.33	22.62
15	1	37		22.50	22.36	22.61
15	1	74		22.54	22.55	22.49
15	36	0		21.48	21.13	21.42
15	36	20		21.34	21.21	21.24
15	36	39		21.20	21.44	21.36
15	75	0		21.38	21.21	21.37
15	1	0	64-QAM	21.67	21.25	21.63
15	1	37		21.40	21.51	21.40
15	1	74		21.45	21.61	21.53
15	36	0		20.46	20.31	20.30
15	36	20		20.28	20.30	20.37
15	36	39		20.32	20.27	20.33
15	75	0		20.24	20.38	20.27



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.41	23.19	23.46
10	1	25		23.34	23.34	23.28
10	1	49		23.34	23.43	23.27
10	25	0		22.31	22.12	22.43
10	25	12		22.30	22.24	22.30
10	25	25		22.33	22.27	22.29
10	50	0		22.33	22.31	22.31
10	1	0	16-QAM	22.56	22.36	22.46
10	1	25		22.61	22.53	22.53
10	1	49		22.48	22.60	22.60
10	25	0		21.30	21.17	21.33
10	25	12		21.28	21.20	21.32
10	25	25		21.24	21.43	21.35
10	50	0		21.42	21.21	21.42
10	1	0	64-QAM	21.54	21.38	21.49
10	1	25		21.41	21.44	21.43
10	1	49		21.47	21.59	21.45
10	25	0		20.40	20.20	20.39
10	25	12		20.41	20.36	20.37
10	25	25		20.34	20.31	20.42
10	50	0		20.43	20.27	20.45
5	1	0	QPSK	23.58	23.11	23.30
5	1	12		23.32	23.38	23.37
5	1	24		23.46	23.37	23.25
5	12	0		22.30	22.15	22.41
5	12	7		22.34	22.18	22.40
5	12	13		22.24	22.42	22.35
5	25	0		22.28	22.18	22.33
5	1	0	16-QAM	22.63	22.37	22.54
5	1	12		22.58	22.36	22.46
5	1	24		22.56	22.69	22.46
5	12	0		21.43	21.23	21.44
5	12	7		21.25	21.23	21.39
5	12	13		21.26	21.46	21.21
5	25	0		21.37	21.27	21.38
5	1	0	64-QAM	21.52	21.23	21.58
5	1	12		21.38	21.39	21.44
5	1	24		21.61	21.64	21.42
5	12	0		20.45	20.16	20.43
5	12	7		20.36	20.28	20.42
5	12	13		20.17	20.32	20.27
5	25	0		20.31	20.34	20.43



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.64	23.28	23.53
20	1	49		23.64	23.38	23.50
20	1	99		23.58	23.57	23.47
20	50	0		22.68	22.33	22.53
20	50	24		22.66	22.38	22.54
20	50	50		22.66	22.48	22.49
20	100	0		22.67	22.40	22.49
20	1	0	16-QAM	22.89	22.41	22.68
20	1	49		22.89	22.54	22.67
20	1	99		22.79	22.74	22.62
20	50	0		21.62	21.34	21.57
20	50	24		21.61	21.40	21.55
20	50	50		21.62	21.48	21.49
20	100	0		21.65	21.40	21.47
20	1	0	64-QAM	21.84	21.37	21.68
20	1	49		21.81	21.47	21.66
20	1	99		21.74	21.66	21.60
20	50	0		20.65	20.33	20.55
20	50	24		20.64	20.42	20.57
20	50	50		20.63	20.49	20.53
20	100	0		20.66	20.43	20.49
15	1	0	QPSK	23.57	23.21	23.35
15	1	37		23.45	23.38	23.35
15	1	74		23.50	23.50	23.38
15	36	0		22.63	22.26	22.37
15	36	20		22.50	22.25	22.51
15	36	39		22.64	22.40	22.34
15	75	0		22.52	22.34	22.48
15	1	0	16-QAM	22.74	22.27	22.65
15	1	37		22.80	22.34	22.49
15	1	74		22.65	22.68	22.57
15	36	0		21.57	21.31	21.55
15	36	20		21.48	21.28	21.49
15	36	39		21.42	21.46	21.34
15	75	0		21.45	21.23	21.40
15	1	0	64-QAM	21.83	21.36	21.60
15	1	37		21.68	21.34	21.66
15	1	74		21.60	21.66	21.50
15	36	0		20.51	20.30	20.46
15	36	20		20.56	20.41	20.51
15	36	39		20.61	20.39	20.48
15	75	0		20.54	20.26	20.45



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.53	23.18	23.39
10	1	25		23.50	23.31	23.41
10	1	49		23.43	23.41	23.34
10	25	0		22.56	22.30	22.40
10	25	12		22.54	22.27	22.44
10	25	25		22.59	22.28	22.36
10	50	0		22.49	22.24	22.29
10	1	0	16-QAM	22.69	22.36	22.67
10	1	25		22.77	22.54	22.60
10	1	49		22.72	22.56	22.58
10	25	0		21.49	21.20	21.42
10	25	12		21.48	21.34	21.44
10	25	25		21.52	21.29	21.31
10	50	0		21.59	21.21	21.31
10	1	0	64-QAM	21.74	21.35	21.65
10	1	25		21.77	21.35	21.63
10	1	49		21.62	21.64	21.48
10	25	0		20.60	20.15	20.39
10	25	12		20.44	20.25	20.47
10	25	25		20.49	20.29	20.51
10	50	0		20.51	20.28	20.48
5	1	0	QPSK	23.48	23.26	23.41
5	1	12		23.52	23.36	23.44
5	1	24		23.52	23.41	23.47
5	12	0		22.56	22.24	22.49
5	12	7		22.49	22.34	22.42
5	12	13		22.58	22.37	22.36
5	25	0		22.51	22.37	22.33
5	1	0	16-QAM	22.72	22.29	22.59
5	1	12		22.80	22.54	22.50
5	1	24		22.77	22.65	22.46
5	12	0		21.44	21.26	21.54
5	12	7		21.42	21.27	21.50
5	12	13		21.58	21.35	21.32
5	25	0		21.56	21.26	21.42
5	1	0	64-QAM	21.75	21.29	21.67
5	1	12		21.74	21.39	21.50
5	1	24		21.69	21.58	21.41
5	12	0		20.62	20.23	20.53
5	12	7		20.56	20.41	20.39
5	12	13		20.47	20.39	20.37
5	25	0		20.58	20.27	20.43



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.73	23.75	23.78
20	1	49		23.58	23.70	23.74
20	1	99		23.64	23.57	23.62
20	50	0		22.71	22.77	22.68
20	50	24		22.56	22.77	22.74
20	50	50		22.67	22.60	22.69
20	100	0		22.65	22.75	22.82
20	1	0	16-QAM	22.84	22.91	22.90
20	1	49		22.89	22.85	22.98
20	1	99		22.90	22.90	22.90
20	50	0		21.69	21.81	21.68
20	50	24		21.55	21.80	21.74
20	50	50		21.67	21.59	21.70
20	100	0		21.64	21.76	21.81
20	1	0	64-QAM	21.97	21.97	21.99
20	1	49		21.76	21.95	21.93
20	1	99		21.78	21.75	21.83
20	50	0		20.72	20.79	20.70
20	50	24		20.56	20.77	20.77
20	50	50		20.66	20.58	20.71
20	100	0		20.65	20.73	20.84
15	1	0	QPSK	23.61	23.70	23.68
15	1	37		23.56	23.50	23.64
15	1	74		23.53	23.37	23.59
15	36	0		22.55	22.62	22.51
15	36	20		22.56	22.60	22.57
15	36	39		22.49	22.44	22.57
15	75	0		22.56	22.66	22.66
15	1	0	16-QAM	22.81	22.95	22.99
15	1	37		22.71	22.94	23.00
15	1	74		22.84	22.79	22.74
15	36	0		21.66	21.61	21.60
15	36	20		21.35	21.73	21.65
15	36	39		21.60	21.59	21.54
15	75	0		21.48	21.64	21.62
15	1	0	64-QAM	21.81	21.84	21.93
15	1	37		21.73	21.84	21.81
15	1	74		21.65	21.56	21.72
15	36	0		20.63	20.64	20.65
15	36	20		20.47	20.57	20.57
15	36	39		20.49	20.40	20.59
15	75	0		20.62	20.70	20.64



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.68	23.55	23.61
10	1	25		23.55	23.63	23.72
10	1	49		23.49	23.42	23.45
10	25	0		22.56	22.73	22.68
10	25	12		22.43	22.65	22.65
10	25	25		22.48	22.48	22.62
10	50	0		22.56	22.75	22.62
10	1	0	16-QAM	22.88	22.99	22.94
10	1	25		22.74	23.00	22.85
10	1	49		22.84	22.89	22.90
10	25	0		21.54	21.80	21.50
10	25	12		21.51	21.79	21.63
10	25	25		21.63	21.39	21.52
10	50	0		21.53	21.69	21.66
10	1	0	64-QAM	21.84	21.81	21.82
10	1	25		21.68	21.85	21.76
10	1	49		21.59	21.75	21.75
10	25	0		20.57	20.71	20.65
10	25	12		20.55	20.74	20.61
10	25	25		20.47	20.53	20.66
10	50	0		20.63	20.59	20.84
5	1	0	QPSK	23.68	23.73	23.71
5	1	12		23.43	23.50	23.63
5	1	24		23.48	23.53	23.61
5	12	0		22.60	22.65	22.64
5	12	7		22.56	22.57	22.63
5	12	13		22.52	22.55	22.52
5	25	0		22.65	22.72	22.79
5	1	0	16-QAM	22.99	22.97	22.98
5	1	12		22.73	22.96	22.98
5	1	24		22.76	22.81	22.85
5	12	0		21.60	21.64	21.65
5	12	7		21.44	21.64	21.74
5	12	13		21.55	21.52	21.59
5	25	0		21.62	21.70	21.68
5	1	0	64-QAM	21.83	21.93	21.79
5	1	12		21.56	21.81	21.87
5	1	24		21.69	21.69	21.68
5	12	0		20.57	20.64	20.69
5	12	7		20.42	20.72	20.58
5	12	13		20.52	20.53	20.51
5	25	0		20.63	20.53	20.71



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.62	23.59	23.62
3	1	8		23.49	23.63	23.56
3	1	14		23.49	23.50	23.44
3	8	0		22.55	22.74	22.62
3	8	4		22.49	22.73	22.65
3	8	7		22.65	22.57	22.62
3	15	0		22.52	22.62	22.78
3	1	0	16-QAM	22.84	22.93	22.97
3	1	8		22.80	22.98	22.92
3	1	14		22.90	22.90	22.87
3	8	0		21.64	21.61	21.59
3	8	4		21.47	21.62	21.68
3	8	7		21.57	21.49	21.68
3	15	0		21.63	21.68	21.63
3	1	0	64-QAM	21.86	21.97	21.93
3	1	8		21.63	21.88	21.91
3	1	14		21.65	21.58	21.64
3	8	0		20.66	20.64	20.63
3	8	4		20.36	20.59	20.61
3	8	7		20.55	20.48	20.58
3	15	0		20.60	20.58	20.64
1.4	1	0	QPSK	23.55	23.59	23.74
1.4	1	3		23.53	23.60	23.56
1.4	1	5		23.61	23.54	23.48
1.4	3	0		22.61	22.64	22.68
1.4	3	1		22.41	22.61	22.70
1.4	3	3		22.59	22.56	22.54
1.4	6	0		22.61	22.74	22.62
1.4	1	0	16-QAM	22.97	22.90	22.92
1.4	1	3		22.75	22.97	22.99
1.4	1	5		22.88	22.77	22.78
1.4	3	0		21.69	21.72	21.50
1.4	3	1		21.40	21.63	21.68
1.4	3	3		21.63	21.46	21.63
1.4	6	0		21.45	21.75	21.70
1.4	1	0	64-QAM	21.96	21.92	21.82
1.4	1	3		21.56	21.89	21.73
1.4	1	5		21.78	21.65	21.73
1.4	3	0		20.63	20.67	20.55
1.4	3	1		20.47	20.64	20.57
1.4	3	3		20.58	20.49	20.53
1.4	6	0		20.58	20.67	20.82



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	23.31	0.2143	21.77	0.1503
Middle		1	3	23.59	0.2286	22.05	0.1603
Highest		1	3	23.38	0.2178	21.84	0.1528
Lowest	16QAM	1	3	22.76	0.1888	21.22	0.1324
Middle		1	3	22.87	0.1936	21.33	0.1358
Highest		1	3	22.51	0.1782	20.97	0.1250
Lowest	64QAM	1	3	21.63	0.1455	20.09	0.1021
Middle		1	3	21.76	0.1500	20.22	0.1052
Highest		1	3	21.50	0.1413	19.96	0.0991
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.39	0.2183	21.85	0.1531
Middle		1	8	23.60	0.2291	22.06	0.1607
Highest		1	8	23.36	0.2168	21.82	0.1521
Lowest	16QAM	1	0	22.58	0.1811	21.04	0.1271
Middle		1	0	22.77	0.1892	21.23	0.1327
Highest		1	0	22.64	0.1837	21.10	0.1288
Lowest	64QAM	1	0	21.59	0.1442	20.05	0.1012
Middle		1	0	21.72	0.1486	20.18	0.1042
Highest		1	0	21.52	0.1419	19.98	0.0995
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.34	0.2158	21.80	0.1514
Middle		1	0	23.52	0.2249	21.98	0.1578
Highest		1	0	23.43	0.2203	21.89	0.1545
Lowest	16QAM	1	12	22.77	0.1892	21.23	0.1327
Middle		1	12	22.79	0.1901	21.25	0.1334
Highest		1	12	22.64	0.1837	21.10	0.1288
Lowest	64QAM	1	12	21.63	0.1455	20.09	0.1021
Middle		1	12	21.72	0.1486	20.18	0.1042
Highest		1	12	21.43	0.1390	19.89	0.0975
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.31	0.2143	21.77	0.1503
Middle		1	0	23.55	0.2265	22.01	0.1589
Highest		1	0	23.35	0.2163	21.81	0.1517
Lowest	16QAM	1	0	22.66	0.1845	21.12	0.1294
Middle		1	0	22.82	0.1914	21.28	0.1343
Highest		1	0	22.66	0.1845	21.12	0.1294
Lowest	64QAM	1	0	21.55	0.1429	20.01	0.1002
Middle		1	0	21.69	0.1476	20.15	0.1035
Highest		1	0	21.53	0.1422	19.99	0.0998
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	23.37	0.2173	21.83	0.1524
Middle		1	37	23.59	0.2286	22.05	0.1603
Highest		1	37	23.29	0.2133	21.75	0.1496
Lowest	16QAM	1	0	22.64	0.1837	21.10	0.1288
Middle		1	0	22.87	0.1936	21.33	0.1358
Highest		1	0	22.70	0.1862	21.16	0.1306
Lowest	64QAM	1	37	21.52	0.1419	19.98	0.0995
Middle		1	37	21.72	0.1486	20.18	0.1042
Highest		1	37	21.51	0.1416	19.97	0.0993
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = -1.54 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.42	0.2198	21.88	0.1542
Middle		1	49	23.61	0.2296	22.07	0.1611
Highest		1	49	23.38	0.2178	21.84	0.1528
Lowest	16QAM	1	49	22.78	0.1897	21.24	0.1330
Middle		1	49	22.90	0.1950	21.36	0.1368
Highest		1	49	22.68	0.1854	21.14	0.1300
Lowest	64QAM	1	0	21.71	0.1483	20.17	0.1040
Middle		1	0	21.79	0.1510	20.25	0.1059
Highest		1	0	21.64	0.1459	20.10	0.1023
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 1.4MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.57	0.2275	21.99	0.1581
Middle		1	0	23.55	0.2265	21.97	0.1574
Highest		1	0	23.46	0.2218	21.88	0.1542
Lowest	16QAM	3	1	22.98	0.1986	21.40	0.1380
Middle		3	1	21.57	0.1435	19.99	0.0998
Highest		3	1	21.33	0.1358	19.75	0.0944
Lowest	64QAM	1	0	21.79	0.1510	20.21	0.1050
Middle		1	0	21.66	0.1466	20.08	0.1019
Highest		1	0	21.77	0.1503	20.19	0.1045
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 3MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.57	0.2275	21.99	0.1581
Middle		1	0	23.61	0.2296	22.03	0.1596
Highest		1	0	23.41	0.2193	21.83	0.1524
Lowest	16QAM	1	0	22.81	0.1910	21.23	0.1327
Middle		1	0	22.96	0.1977	21.38	0.1374
Highest		1	0	22.86	0.1932	21.28	0.1343
Lowest	64QAM	1	0	21.78	0.1507	20.20	0.1047
Middle		1	0	21.72	0.1486	20.14	0.1033
Highest		1	0	21.87	0.1538	20.29	0.1069
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 5MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.72	0.2355	22.14	0.1637
Middle		1	0	23.63	0.2307	22.05	0.1603
Highest		1	0	23.46	0.2218	21.88	0.1542
Lowest	16QAM	1	0	23.00	0.1995	21.42	0.1387
Middle		1	0	22.79	0.1901	21.21	0.1321
Highest		1	0	22.88	0.1941	21.30	0.1349
Lowest	64QAM	1	0	21.89	0.1545	20.31	0.1074
Middle		1	0	21.74	0.1493	20.16	0.1038
Highest		1	0	21.82	0.1521	20.24	0.1057
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 10MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.64	0.2312	22.06	0.1607
Middle		1	0	23.54	0.2259	21.96	0.1570
Highest		1	0	23.48	0.2228	21.90	0.1549
Lowest	16QAM	1	0	22.99	0.1991	21.41	0.1384
Middle		1	0	22.76	0.1888	21.18	0.1312
Highest		1	0	22.88	0.1941	21.30	0.1349
Lowest	64QAM	1	0	21.77	0.1503	20.19	0.1045
Middle		1	0	21.73	0.1489	20.15	0.1035
Highest		1	0	21.76	0.1500	20.18	0.1042
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 15MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.66	0.2323	22.08	0.1614
Middle		1	0	23.61	0.2296	22.03	0.1596
Highest		1	0	23.40	0.2188	21.82	0.1521
Lowest	16QAM	1	37	22.83	0.1919	21.25	0.1334
Middle		1	37	22.97	0.1982	21.39	0.1377
Highest		1	37	22.60	0.1820	21.02	0.1265
Lowest	64QAM	1	0	21.88	0.1542	20.30	0.1072
Middle		1	0	21.60	0.1445	20.02	0.1005
Highest		1	0	21.76	0.1500	20.18	0.1042
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 20MHz (Average) (GT - LC = -1.58 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.77	0.2382	22.19	0.1656
Middle		1	0	23.65	0.2317	22.07	0.1611
Highest		1	0	23.59	0.2286	22.01	0.1589
Lowest	16QAM	1	0	23.00	0.1995	21.42	0.1387
Middle		1	0	22.96	0.1977	21.38	0.1374
Highest		1	0	22.94	0.1968	21.36	0.1368
Lowest	64QAM	1	0	21.94	0.1563	20.36	0.1086
Middle		1	0	21.78	0.1507	20.20	0.1047
Highest		1	0	21.87	0.1538	20.29	0.1069
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.56	0.2270	22.24	0.1675
Middle		1	0	23.47	0.2223	22.15	0.1641
Highest		1	0	23.69	0.2339	22.37	0.1726
Lowest	16QAM	1	3	22.78	0.1897	21.46	0.1400
Middle		1	3	22.79	0.1901	21.47	0.1403
Highest		1	3	23.00	0.1995	21.68	0.1472
Lowest	64QAM	1	0	21.95	0.1567	20.63	0.1156
Middle		1	0	21.82	0.1521	20.50	0.1122
Highest		1	0	21.80	0.1514	20.48	0.1117
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.68	0.2333	22.36	0.1722
Middle		1	0	23.54	0.2259	22.22	0.1667
Highest		1	0	23.72	0.2355	22.40	0.1738
Lowest	16QAM	1	8	22.77	0.1892	21.45	0.1396
Middle		1	8	22.83	0.1919	21.51	0.1416
Highest		1	8	22.97	0.1982	21.65	0.1462
Lowest	64QAM	1	0	21.94	0.1563	20.62	0.1153
Middle		1	0	21.74	0.1493	20.42	0.1102
Highest		1	0	21.92	0.1556	20.60	0.1148
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.71	0.2350	22.39	0.1734
Middle		1	0	23.50	0.2239	22.18	0.1652
Highest		1	0	23.76	0.2377	22.44	0.1754
Lowest	16QAM	1	0	22.91	0.1954	21.59	0.1442
Middle		1	0	22.98	0.1986	21.66	0.1466
Highest		1	0	22.93	0.1963	21.61	0.1449
Lowest	64QAM	1	0	21.93	0.1560	20.61	0.1151
Middle		1	0	21.91	0.1552	20.59	0.1146
Highest		1	0	21.94	0.1563	20.62	0.1153
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.66	0.2323	22.34	0.1714
Middle		1	0	23.49	0.2234	22.17	0.1648
Highest		1	0	23.69	0.2339	22.37	0.1726
Lowest	16QAM	1	0	23.00	0.1995	21.68	0.1472
Middle		1	0	22.85	0.1928	21.53	0.1422
Highest		1	0	22.96	0.1977	21.64	0.1459
Lowest	64QAM	1	0	21.92	0.1556	20.60	0.1148
Middle		1	0	21.91	0.1552	20.59	0.1146
Highest		1	0	21.75	0.1496	20.43	0.1104
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.70	0.2344	22.38	0.1730
Middle		1	0	23.58	0.2280	22.26	0.1683
Highest		1	0	23.77	0.2382	22.45	0.1758
Lowest	16QAM	1	0	22.90	0.1950	21.58	0.1439
Middle		1	0	22.93	0.1963	21.61	0.1449
Highest		1	0	22.95	0.1972	21.63	0.1455
Lowest	64QAM	1	37	21.79	0.1510	20.47	0.1114
Middle		1	37	21.69	0.1476	20.37	0.1089
Highest		1	37	21.92	0.1556	20.60	0.1148
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -1.32 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.75	0.2371	22.43	0.1750
Middle		1	0	23.64	0.2312	22.32	0.1706
Highest		1	0	23.78	0.2388	22.46	0.1762
Lowest	16QAM	1	0	22.98	0.1986	21.66	0.1466
Middle		1	0	23.00	0.1995	21.68	0.1472
Highest		1	0	22.96	0.1977	21.64	0.1459
Lowest	64QAM	1	49	21.81	0.1517	20.49	0.1119
Middle		1	49	21.83	0.1524	20.51	0.1125
Highest		1	49	21.96	0.1570	20.64	0.1159
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.16	0.2070	19.44	0.0879
Middle		1	0	23.20	0.2089	19.48	0.0887
Highest		1	0	23.31	0.2143	19.59	0.0910
Lowest	16QAM	1	3	22.58	0.1811	18.86	0.0769
Middle		1	3	22.68	0.1854	18.96	0.0787
Highest		1	3	22.48	0.1770	18.76	0.0752
Lowest	64QAM	1	5	21.66	0.1466	17.94	0.0622
Middle		1	5	21.40	0.1380	17.68	0.0586
Highest		1	5	21.50	0.1413	17.78	0.0600
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.14	0.2061	19.42	0.0875
Middle		1	0	23.36	0.2168	19.64	0.0920
Highest		1	0	23.26	0.2118	19.54	0.0899
Lowest	16QAM	1	8	22.48	0.1770	18.76	0.0752
Middle		1	8	22.73	0.1875	19.01	0.0796
Highest		1	8	22.41	0.1742	18.69	0.0740
Lowest	64QAM	1	14	21.61	0.1449	17.89	0.0615
Middle		1	14	21.54	0.1426	17.82	0.0605
Highest		1	14	21.39	0.1377	17.67	0.0585
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.20	0.2089	19.48	0.0887
Middle		1	12	23.40	0.2188	19.68	0.0929
Highest		1	12	23.12	0.2051	19.40	0.0871
Lowest	16QAM	1	0	22.54	0.1795	18.82	0.0762
Middle		1	0	22.74	0.1879	19.02	0.0798
Highest		1	0	22.64	0.1837	18.92	0.0780
Lowest	64QAM	1	0	21.42	0.1387	17.70	0.0589
Middle		1	0	21.59	0.1442	17.87	0.0612
Highest		1	0	21.45	0.1396	17.73	0.0593
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.43	0.2203	19.71	0.0935
Middle		1	49	23.36	0.2168	19.64	0.0920
Highest		1	49	23.36	0.2168	19.64	0.0920
Lowest	16QAM	1	0	22.70	0.1862	18.98	0.0791
Middle		1	0	22.76	0.1888	19.04	0.0802
Highest		1	0	22.65	0.1841	18.93	0.0782
Lowest	64QAM	1	49	21.68	0.1472	17.96	0.0625
Middle		1	49	21.55	0.1429	17.83	0.0607
Highest		1	49	21.56	0.1432	17.84	0.0608
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = 1.02 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	23.08	0.2032	24.10	0.2570
Middle		1	24	23.39	0.2183	24.41	0.2761
Highest		1	24	23.11	0.2046	24.13	0.2588
Lowest	16QAM	1	24	22.62	0.1828	23.64	0.2312
Middle		1	24	22.77	0.1892	23.79	0.2393
Highest		1	24	22.42	0.1746	23.44	0.2208
Lowest	64QAM	1	24	21.51	0.1416	22.53	0.1791
Middle		1	24	21.67	0.1469	22.69	0.1858
Highest		1	24	21.45	0.1396	22.47	0.1766
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = 1.02 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.24	0.2109	24.26	0.2667
Middle		1	49	23.32	0.2148	24.34	0.2716
Highest		1	49	23.21	0.2094	24.23	0.2649
Lowest	16QAM	1	25	22.59	0.1816	23.61	0.2296
Middle		1	25	22.48	0.1770	23.50	0.2239
Highest		1	25	22.69	0.1858	23.71	0.2350
Lowest	64QAM	1	49	21.50	0.1413	22.52	0.1786
Middle		1	49	21.73	0.1489	22.75	0.1884
Highest		1	49	21.39	0.1377	22.41	0.1742
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = 1.02 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	23.32	0.2148	24.34	0.2716
Middle		1	37	23.19	0.2084	24.21	0.2636
Highest		1	37	23.19	0.2084	24.21	0.2636
Lowest	16QAM	1	74	22.58	0.1811	23.60	0.2291
Middle		1	74	22.79	0.1901	23.81	0.2404
Highest		1	74	22.52	0.1786	23.54	0.2259
Lowest	64QAM	1	74	21.44	0.1393	22.46	0.1762
Middle		1	74	21.71	0.1483	22.73	0.1875
Highest		1	74	21.33	0.1358	22.35	0.1718
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = 1.02 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	23.27	0.2123	24.29	0.2685
Middle		1	99	23.50	0.2239	24.52	0.2831
Highest		1	99	23.25	0.2113	24.27	0.2673
Lowest	16QAM	1	99	22.74	0.1879	23.76	0.2377
Middle		1	99	22.84	0.1923	23.86	0.2432
Highest		1	99	22.57	0.1807	23.59	0.2286
Lowest	64QAM	1	99	21.57	0.1435	22.59	0.1816
Middle		1	99	21.76	0.1500	22.78	0.1897
Highest		1	99	21.53	0.1422	22.55	0.1799
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.10	0.2042	17.66	0.0583
Middle		1	3	23.17	0.2075	17.73	0.0593
Highest		1	3	22.96	0.1977	17.52	0.0565
Lowest	16QAM	1	3	22.29	0.1694	16.85	0.0484
Middle		1	3	22.43	0.1750	16.99	0.0500
Highest		1	3	22.17	0.1648	16.73	0.0471
Lowest	64QAM	1	3	21.28	0.1343	15.84	0.0384
Middle		1	3	21.49	0.1409	16.05	0.0403
Highest		1	3	21.18	0.1312	15.74	0.0375
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.86	0.1932	17.42	0.0552
Middle		1	0	22.97	0.1982	17.53	0.0566
Highest		1	0	23.19	0.2084	17.75	0.0596
Lowest	16QAM	1	8	22.43	0.1750	16.99	0.0500
Middle		1	8	22.56	0.1803	17.12	0.0515
Highest		1	8	22.31	0.1702	16.87	0.0486
Lowest	64QAM	1	8	21.33	0.1358	15.89	0.0388
Middle		1	8	21.45	0.1396	16.01	0.0399
Highest		1	8	21.14	0.1300	15.70	0.0372
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.02	0.2004	17.58	0.0573
Middle		1	12	23.20	0.2089	17.76	0.0597
Highest		1	12	22.97	0.1982	17.53	0.0566
Lowest	16QAM	1	12	22.41	0.1742	16.97	0.0498
Middle		1	12	22.49	0.1774	17.05	0.0507
Highest		1	12	22.15	0.1641	16.71	0.0469
Lowest	64QAM	1	0	21.14	0.1300	15.70	0.0372
Middle		1	0	21.27	0.1340	15.83	0.0383
Highest		1	0	21.33	0.1358	15.89	0.0388
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.24	0.2109	17.80	0.0603
Middle		1	49	23.05	0.2018	17.61	0.0577
Highest		1	49	23.08	0.2032	17.64	0.0581
Lowest	16QAM	1	25	22.44	0.1754	17.00	0.0501
Middle		1	25	22.57	0.1807	17.13	0.0516
Highest		1	25	22.33	0.1710	16.89	0.0489
Lowest	64QAM	1	25	21.41	0.1384	15.97	0.0395
Middle		1	25	21.49	0.1409	16.05	0.0403
Highest		1	25	21.30	0.1349	15.86	0.0385
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -3.65 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.07	0.2028	17.27	0.0533
Middle		1	12	23.20	0.2089	17.40	0.0550
Highest		1	12	23.12	0.2051	17.32	0.0540
Lowest	16QAM	1	24	22.57	0.1807	16.77	0.0475
Middle		1	24	22.68	0.1854	16.88	0.0488
Highest		1	24	22.68	0.1854	16.88	0.0488
Lowest	64QAM	1	24	21.52	0.1419	15.72	0.0373
Middle		1	24	21.40	0.1380	15.60	0.0363
Highest		1	24	21.50	0.1413	15.70	0.0372
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -3.65 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	49	23.28	0.2128	17.48	0.0560
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	22.68	0.1854	16.88	0.0488
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	21.53	0.1422	15.73	0.0374
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.96	0.1977	17.52	0.0565
Middle		1	0	22.96	0.1977	17.52	0.0565
Highest		1	0	23.10	0.2042	17.66	0.0583
Lowest	16QAM	1	24	22.49	0.1774	17.05	0.0507
Middle		1	24	22.41	0.1742	16.97	0.0498
Highest		1	24	22.06	0.1607	16.62	0.0459
Lowest	64QAM	1	24	21.40	0.1380	15.96	0.0394
Middle		1	24	21.33	0.1358	15.89	0.0388
Highest		1	24	21.17	0.1309	15.73	0.0374
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -3.29 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.14	0.2061	17.70	0.0589
Middle		1	49	23.09	0.2037	17.65	0.0582
Highest		1	49	23.03	0.2009	17.59	0.0574
Lowest	16QAM	1	49	22.54	0.1795	17.10	0.0513
Middle		1	49	22.44	0.1754	17.00	0.0501
Highest		1	49	22.26	0.1683	16.82	0.0481
Lowest	64QAM	1	49	21.45	0.1396	16.01	0.0399
Middle		1	49	21.37	0.1371	15.93	0.0392
Highest		1	49	21.27	0.1340	15.83	0.0383
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = 1.24 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.52	0.2249	24.76	0.2992
Middle		1	12	23.36	0.2168	24.60	0.2884
Highest		1	12	23.44	0.2208	24.68	0.2938
Lowest	16QAM	1	12	22.80	0.1905	24.04	0.2535
Middle		1	12	22.54	0.1795	23.78	0.2388
Highest		1	12	22.50	0.1778	23.74	0.2366
Lowest	64QAM	1	0	21.75	0.1496	22.99	0.1991
Middle		1	0	21.29	0.1346	22.53	0.1791
Highest		1	0	21.67	0.1469	22.91	0.1954
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = 1.24 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.53	0.2254	24.77	0.2999
Middle		1	0	23.18	0.2080	24.42	0.2767
Highest		1	0	23.39	0.2183	24.63	0.2904
Lowest	16QAM	1	25	22.77	0.1892	24.01	0.2518
Middle		1	25	22.54	0.1795	23.78	0.2388
Highest		1	25	22.60	0.1820	23.84	0.2421
Lowest	64QAM	1	25	21.77	0.1503	23.01	0.2000
Middle		1	25	21.35	0.1365	22.59	0.1816
Highest		1	25	21.63	0.1455	22.87	0.1936
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = 1.24 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.57	0.2275	24.81	0.3027
Middle		1	0	23.21	0.2094	24.45	0.2786
Highest		1	0	23.35	0.2163	24.59	0.2877
Lowest	16QAM	1	37	22.80	0.1905	24.04	0.2535
Middle		1	37	22.34	0.1714	23.58	0.2280
Highest		1	37	22.49	0.1774	23.73	0.2360
Lowest	64QAM	1	0	21.83	0.1524	23.07	0.2028
Middle		1	0	21.36	0.1368	22.60	0.1820
Highest		1	0	21.60	0.1445	22.84	0.1923
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = 1.24 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.64	0.2312	24.88	0.3076
Middle		1	0	23.28	0.2128	24.52	0.2831
Highest		1	0	23.53	0.2254	24.77	0.2999
Lowest	16QAM	1	0	22.89	0.1945	24.13	0.2588
Middle		1	0	22.41	0.1742	23.65	0.2317
Highest		1	0	22.68	0.1854	23.92	0.2466
Lowest	64QAM	1	0	21.84	0.1528	23.08	0.2032
Middle		1	0	21.37	0.1371	22.61	0.1824
Highest		1	0	21.68	0.1472	22.92	0.1959
Limit	EIRP < 2W			Result		PASS	



LTE Band 26 / 1.4MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.36	0.2168	19.64	0.0920
Middle		1	3	23.25	0.2113	19.53	0.0897
Highest		1	3	23.29	0.2133	19.57	0.0906
Lowest	16QAM	1	0	22.62	0.1828	18.90	0.0776
Middle		1	0	22.43	0.1750	18.71	0.0743
Highest		1	0	22.67	0.1849	18.95	0.0785
Lowest	64QAM	1	3	21.61	0.1449	17.89	0.0615
Middle		1	3	21.53	0.1422	17.81	0.0604
Highest		1	3	21.37	0.1371	17.65	0.0582
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	14	23.34	0.2158	19.62	0.0916
Middle		1	14	23.39	0.2183	19.67	0.0927
Highest		1	14	23.36	0.2168	19.64	0.0920
Lowest	16QAM	1	8	22.61	0.1824	18.89	0.0774
Middle		1	8	22.69	0.1858	18.97	0.0789
Highest		1	8	22.59	0.1816	18.87	0.0771
Lowest	64QAM	1	0	21.46	0.1400	17.74	0.0594
Middle		1	0	21.49	0.1409	17.77	0.0598
Highest		1	0	21.58	0.1439	17.86	0.0611
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.41	0.2193	19.69	0.0931
Middle		1	12	23.35	0.2163	19.63	0.0918
Highest		1	12	23.15	0.2065	19.43	0.0877
Lowest	16QAM	1	0	22.61	0.1824	18.89	0.0774
Middle		1	0	22.49	0.1774	18.77	0.0753
Highest		1	0	22.70	0.1862	18.98	0.0791
Lowest	64QAM	1	24	21.65	0.1462	17.93	0.0621
Middle		1	24	21.48	0.1406	17.76	0.0597
Highest		1	24	21.47	0.1403	17.75	0.0596
Limit	ERP < 7W			Result		PASS	



LTE Band 26 / 10MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.28	0.2128	19.56	0.0904
Middle		1	49	23.19	0.2084	19.47	0.0885
Highest		1	49	23.34	0.2158	19.62	0.0916
Lowest	16QAM	1	49	22.61	0.1824	18.89	0.0774
Middle		1	49	22.67	0.1849	18.95	0.0785
Highest		1	49	22.47	0.1766	18.75	0.0750
Lowest	64QAM	1	49	21.63	0.1455	17.91	0.0618
Middle		1	49	21.41	0.1384	17.69	0.0587
Highest		1	49	21.34	0.1361	17.62	0.0578
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 15MHz (Average) (GT - LC = -1.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	37	23.41	0.2193	19.69	0.0931
Middle		1	37	23.38	0.2178	19.66	0.0925
Highest		1	37	23.31	0.2143	19.59	0.0910
Lowest	16QAM	1	0	22.62	0.1828	18.90	0.0776
Middle		1	0	22.63	0.1832	18.91	0.0778
Highest		1	0	22.71	0.1866	18.99	0.0793
Lowest	64QAM	1	37	21.64	0.1459	17.92	0.0619
Middle		1	37	21.66	0.1466	17.94	0.0622
Highest		1	37	21.49	0.1409	17.77	0.0598
Limit	ERP < 7W			Result		PASS	



LTE Band 38 / 5MHz (Peak) (GT - LC = 1.66 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.58	0.2280	25.24	0.3342
Middle		1	0	23.11	0.2046	24.77	0.2999
Highest		1	0	23.30	0.2138	24.96	0.3133
Lowest	16QAM	1	24	22.56	0.1803	24.22	0.2642
Middle		1	24	22.69	0.1858	24.35	0.2723
Highest		1	24	22.46	0.1762	24.12	0.2582
Lowest	64QAM	1	24	21.61	0.1449	23.27	0.2123
Middle		1	24	21.64	0.1459	23.30	0.2138
Highest		1	24	21.42	0.1387	23.08	0.2032
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 10MHz (Peak) (GT - LC = 1.66 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.41	0.2193	25.07	0.3214
Middle		1	0	23.19	0.2084	24.85	0.3055
Highest		1	0	23.46	0.2218	25.12	0.3251
Lowest	16QAM	1	25	22.61	0.1824	24.27	0.2673
Middle		1	25	22.53	0.1791	24.19	0.2624
Highest		1	25	22.53	0.1791	24.19	0.2624
Lowest	64QAM	1	49	21.47	0.1403	23.13	0.2056
Middle		1	49	21.59	0.1442	23.25	0.2113
Highest		1	49	21.45	0.1396	23.11	0.2046
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 15MHz (Peak) (GT - LC = 1.66 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.38	0.2178	25.04	0.3192
Middle		1	74	23.55	0.2265	25.21	0.3319
Highest		1	74	23.33	0.2153	24.99	0.3155
Lowest	16QAM	1	0	22.72	0.1871	24.38	0.2742
Middle		1	0	22.33	0.1710	23.99	0.2506
Highest		1	0	22.62	0.1828	24.28	0.2679
Lowest	64QAM	1	0	21.67	0.1469	23.33	0.2153
Middle		1	0	21.25	0.1334	22.91	0.1954
Highest		1	0	21.63	0.1455	23.29	0.2133
Limit	EIRP < 2W			Result		PASS	



LTE Band 38 / 20MHz (Peak) (GT - LC = 1.66 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.58	0.2280	25.24	0.3342
Middle		1	0	23.27	0.2123	24.93	0.3112
Highest		1	0	23.49	0.2234	25.15	0.3273
Lowest	16QAM	1	0	22.73	0.1875	24.39	0.2748
Middle		1	0	22.41	0.1742	24.07	0.2553
Highest		1	0	22.66	0.1845	24.32	0.2704
Lowest	64QAM	1	0	21.72	0.1486	23.38	0.2178
Middle		1	0	21.39	0.1377	23.05	0.2018
Highest		1	0	21.67	0.1469	23.33	0.2153
Limit	EIRP < 2W			Result		PASS	



LTE Band 66 / 1.4MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.55	0.2265	22.06	0.1607
Middle		1	0	23.59	0.2286	22.10	0.1622
Highest		1	0	23.74	0.2366	22.25	0.1679
Lowest	16QAM	1	3	22.75	0.1884	21.26	0.1337
Middle		1	3	22.97	0.1982	21.48	0.1406
Highest		1	3	22.99	0.1991	21.50	0.1413
Lowest	64QAM	1	0	21.96	0.1570	20.47	0.1114
Middle		1	0	21.92	0.1556	20.43	0.1104
Highest		1	0	21.82	0.1521	20.33	0.1079
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.49	0.2234	22.00	0.1585
Middle		1	8	23.63	0.2307	22.14	0.1637
Highest		1	8	23.56	0.2270	22.07	0.1611
Lowest	16QAM	1	8	22.80	0.1905	21.31	0.1352
Middle		1	8	22.98	0.1986	21.49	0.1409
Highest		1	8	22.92	0.1959	21.43	0.1390
Lowest	64QAM	1	0	21.86	0.1535	20.37	0.1089
Middle		1	0	21.97	0.1574	20.48	0.1117
Highest		1	0	21.93	0.1560	20.44	0.1107
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.68	0.2333	22.19	0.1656
Middle		1	0	23.73	0.2360	22.24	0.1675
Highest		1	0	23.71	0.2350	22.22	0.1667
Lowest	16QAM	1	0	22.99	0.1991	21.50	0.1413
Middle		1	0	22.97	0.1982	21.48	0.1406
Highest		1	0	22.98	0.1986	21.49	0.1409
Lowest	64QAM	1	0	21.83	0.1524	20.34	0.1081
Middle		1	0	21.93	0.1560	20.44	0.1107
Highest		1	0	21.79	0.1510	20.30	0.1072
Limit	EIRP < 1W			Result		PASS	



LTE Band 66 / 10MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	23.55	0.2265	22.06	0.1607
Middle		1	25	23.63	0.2307	22.14	0.1637
Highest		1	25	23.72	0.2355	22.23	0.1671
Lowest	16QAM	1	25	22.74	0.1879	21.25	0.1334
Middle		1	25	23.00	0.1995	21.51	0.1416
Highest		1	25	22.85	0.1928	21.36	0.1368
Lowest	64QAM	1	25	21.68	0.1472	20.19	0.1045
Middle		1	25	21.85	0.1531	20.36	0.1086
Highest		1	25	21.76	0.1500	20.27	0.1064
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 15MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.61	0.2296	22.12	0.1629
Middle		1	0	23.70	0.2344	22.21	0.1663
Highest		1	0	23.68	0.2333	22.19	0.1656
Lowest	16QAM	1	37	22.71	0.1866	21.22	0.1324
Middle		1	37	22.94	0.1968	21.45	0.1396
Highest		1	37	23.00	0.1995	21.51	0.1416
Lowest	64QAM	1	0	21.81	0.1517	20.32	0.1076
Middle		1	0	21.84	0.1528	20.35	0.1084
Highest		1	0	21.93	0.1560	20.44	0.1107
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 20MHz (Average) (GT - LC = -1.49 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.73	0.2360	22.24	0.1675
Middle		1	0	23.75	0.2371	22.26	0.1683
Highest		1	0	23.78	0.2388	22.29	0.1694
Lowest	16QAM	1	49	22.89	0.1945	21.40	0.1380
Middle		1	49	22.85	0.1928	21.36	0.1368
Highest		1	49	22.98	0.1986	21.49	0.1409
Lowest	64QAM	1	0	21.97	0.1574	20.48	0.1117
Middle		1	0	21.97	0.1574	20.48	0.1117
Highest		1	0	21.99	0.1581	20.50	0.1122
Limit	EIRP < 1W			Result		PASS	

**Radiated Spurious Emission****LTE Band 13**

LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1576	-55.59	-42.15	-13.44	-69.13	-60.93	0.90	8.39	H
	2360	-53.54	-13	-40.54	-72.01	-60.77	1.12	10.50	H
	3152	-54.38	-13	-41.38	-74.66	-62.60	1.30	11.66	H
									H
									H
									H
									H
	1552	-26.67	-13	-13.67	-68.83	-31.93	0.89	8.30	V
	2336	-51.47	-13	-38.47	-69.66	-58.68	1.11	10.47	V
	3104	-53.96	-13	-40.96	-74.66	-62.07	1.29	11.55	V
									V
									V
									V
									V

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

**LTE Band 41 HPUE**

LTE Band 41 / 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	5028	-44.35	-25	-19.35	-70.77	-55.37	1.62	12.64	H
	7542	-44.49	-25	-19.49	-74.68	-53.60	2.00	11.11	H
	10053	-41.42	-25	-16.42	-74.83	-50.28	2.40	11.26	H
									H
									H
									H
									H
	5028	-41.90	-25	-16.90	-67.91	-52.92	1.62	12.64	V
	7542	-44.28	-25	-19.28	-74.43	-53.39	2.00	11.11	V
	10053	-40.56	-25	-15.56	-74.66	-49.42	2.40	11.26	V
									V
									V
									V
									V
Middle	5202	-38.82	-25	-13.82	-65.33	-50.04	1.66	12.88	H
	7803	-44.53	-25	-19.53	-74.34	-53.66	2.03	11.16	H
	10404	-40.43	-25	-15.43	-74.65	-49.01	2.39	10.98	H
									H
									H
									H
									H
	5202	-37.23	-25	-12.23	-63.57	-48.45	1.66	12.88	V
	7803	-44.27	-25	-19.27	-73.76	-53.40	2.03	11.16	V
	10404	-40.26	-25	-15.26	-74.4	-48.84	2.39	10.98	V
									V
									V
									V
									V



Highest	5376	-34.31	-25	-9.31	-61.43	-45.73	1.71	13.13	H
	8064	-42.95	-25	-17.95	-73.88	-52.22	2.06	11.33	H
	10755	-40.36	-25	-15.36	-74.87	-48.74	2.52	10.90	H
									H
									H
									H
									H
	5376	-32.59	-25	-7.59	-59.32	-44.01	1.71	13.13	V
	8064	-41.82	-25	-16.82	-72.75	-51.09	2.06	11.33	V
	10755	-40.73	-25	-15.73	-75.01	-49.11	2.52	10.90	V
									V
									V
									V
									V

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