



FCC RADIO TEST REPORT

FCC ID : QYLEM9190F
Equipment : WWAN Module
Brand Name : Getac
Model Name : EM9190
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1,
Nangang Rd., Nangang Dist., Taipei City
11568, Taiwan, R.O.C.
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Aug. 26, 2021 and testing was started from Sep. 17, 2021 and completed on Oct. 13, 2021. 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 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 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG182625B	01	Initial issue of report	Oct. 25, 2021
FG182625B	02	Revise remark description in section 2.1	Oct. 26, 2021



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)(5)	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) (Band 71)		
	§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) (Band 71)	-	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) (Band 71)	-	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) (Band 71)	Pass	-
	\$2.1051 \$27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Note: The module (Model: EM9190) makes no difference after verifying output power, 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: Yun Huang

Report Producer: Amy Chen



1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, and GNSS.

Product Specification subjective to this standard	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WWAN <Main>: PIFA Antenna <Aux.>: PIFA Antenna GPS / Glonass / BDS / Galileo : PATCH Antenna
Antenna Gain	<Main>: LTE Band 2 : 0.41 dBi LTE Band 4 : -0.19 dBi LTE Band 5 : -0.21 dBi LTE Band 7 : -2.90 dBi LTE Band 12 : -3.72 dBi LTE Band 13 : -0.35 dBi LTE Band 17 : -3.72 dBi LTE Band 25 : 0.41 dBi LTE Band 26 : -0.21 dBi LTE Band 38 : -2.57 dBi LTE Band 41 : -1.41 dBi LTE Band 66 : 0.35 dBi LTE Band 71 : -4.58 dBi <Aux.>: LTE Band 2 : 0.04 dBi LTE Band 5 : -2.26 dBi LTE Band 7 : 2.23 dBi LTE Band 12 : -1.69 dBi LTE Band 13 : -1.30 dBi LTE Band 26 : -2.00 dBi LTE Band 41 : 2.73 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

The product was installed into Tablet PC (Brand Name: Getac, Model Name: F110, F110G6, F110-Ex, F110-631) during test, and the host information was recorded in the following table.

Host Information		
Host 1	Host with SKU A	
Host 2	Host with SKU B	

SKU	SKU A	SKU B
CPU	i5-1135G7 (Non Vpro)	i7-1165G7 (Vpro)
DDR	Kingston DDR4-3200 32GB	Kingston DDR4-3200 32GB
SSD	512GB	1TB
PANEL	Full HD AUO	Full HD AUO
DIGITIZER	N/A	EMRright Digitizer
OPTION BAY	2D Barcode Reader	RS232 + LAN
Expansion Bay	Smart Card	Smart Card
Right side option	NXP RFID(PN7462)	Finger Print
WLAN/BT	Intel AX201	Intel AX201
WWAN(4G)	EM9190	EM9190
GPS/GNS	EM9190	EM9190
Rear 8M Camera	Support	Support
Webcam FHD	Not Support	Not Support
IR Webcam	Support	Support
USB3.2 Gen2 x 1 Type-A	Support	Support
Type-C (thunder bolt)	Support	Support
Audio/MIC	Support	Support

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Hao En Zhang
Temperature	22.3~24.5℃
Relative Humidity	52.3~54.1%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH15-HY (TAF Code: 3786)
Test Engineer	Leo Li, Mancy Chou and Bigshow Wang
Temperature	22.5~24.5℃
Relative Humidity	45~55%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

1.4 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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. 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.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X Plane for LTE Band 2, 5, 12, 13, 71 ; Y Plane for LTE Band 4 and Z Plane for LTE Band 41_HPUE as worst plane.

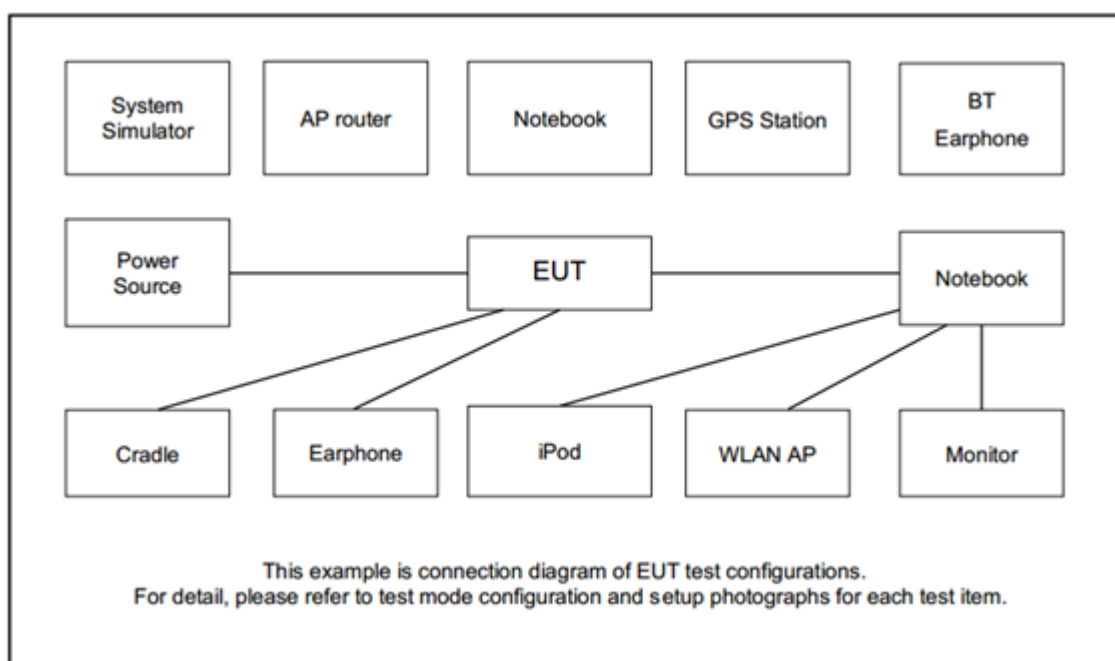
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	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_HPUE	-	-	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
	71	-	-	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	Max. Power					
	4	v	v	v	v	v	v	v	v	v						
	5	v	v	v	v	-	-	v	v	v						
	7	-	-	v	v	v	v	v	v	v						
	12	v	v	v	v	-	-	v	v	v						
	13	-	-	v	v	-	-	v	v	v						
	17	-	-	v	v	-	-	v	v	v						
	25	v	v	v	v	v	v	v	v	v						
	26	v	v	v	v	v	-	v	v	v						
	38	-	-	v	v	v	v	v	v	v						
	41 HPUE	-	-	v	v	v	v	v	v	v						
	66	v	v	v	v	v	v	v	v	v						
	71	-	-	v	v	v	v	v	v	v						
Radiated Spurious Emission	2				v			v			v			v	v	v
	4		v					v			v			v	v	v
	5			v		-	-	v			v			v	v	v
	12			v		-	-	v			v			v	v	v
	13	-	-	v		-	-	v			v			v	v	v
	41 HPUE	-	-		v			v			v			v	v	v
	71	-	-	v				v			v			v	v	v
Remark	- 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. - All the radiated test cases were performed with Adapter 1 and Sample 2.															

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	Max. Power					
	41_CA	v	v	v	v	v	v	v	v	v	v	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.																			
Remark	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.																			
	4. All the radiated test cases were performed with Adapter 1 and Sample 2.																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand 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_HPUE 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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5



LTE Band 7 Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 41 Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41 Channel and Frequency List_CA					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

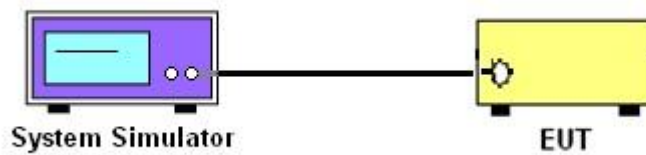
3 Conducted Test Items

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 and Band 71

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.

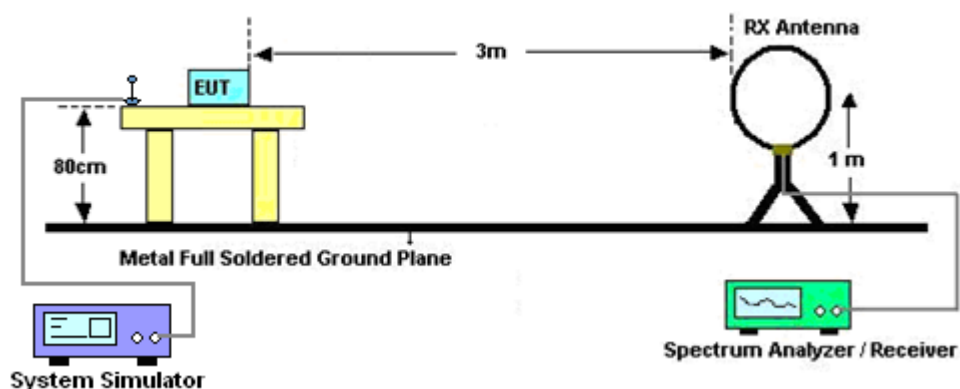
4 Radiated Test Items

4.1 Measuring Instruments

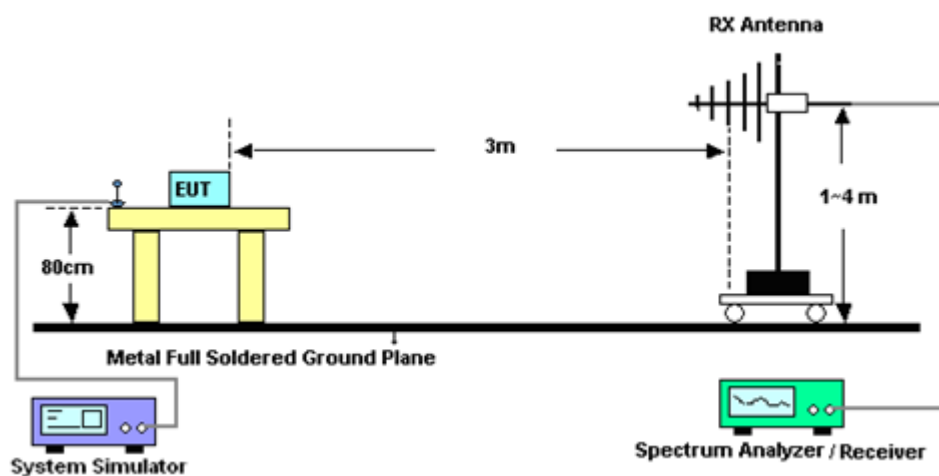
See list of measuring instruments of this test report.

4.1.1 Test Setup

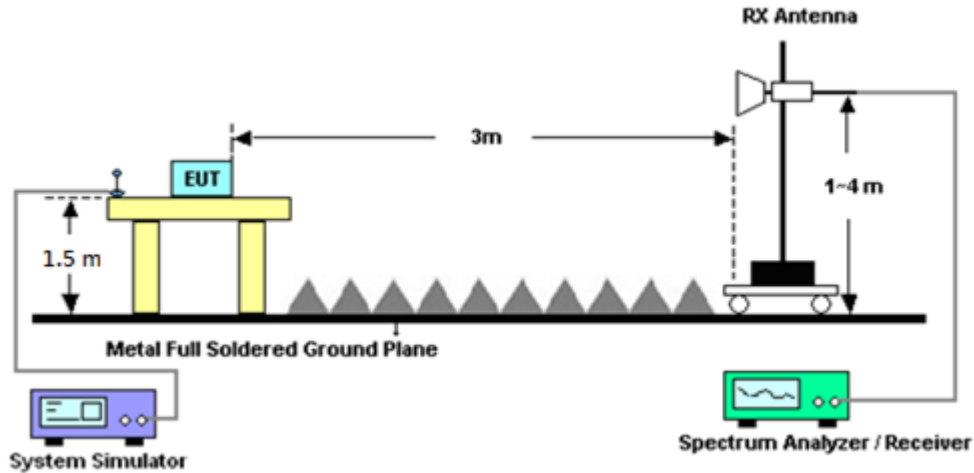
For radiated test below 30MHz



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 adequate comparison measurement 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 7, 38, 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 7, 38, 41

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

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Sep. 17, 2021~ Sep. 20, 2021	Jan. 03, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Sep. 17, 2021~ Sep. 20, 2021	Oct. 10, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N -06	41912&05	30MHz to 1GHz	Feb. 08, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Sep. 17, 2021~ Sep. 20, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1-18GHz	Nov. 03, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Nov. 03, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz- 40GHz	Dec. 02, 2020	Sep. 17, 2021~ Sep. 20, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55- 303	17100018000 55006	1GHz~18GHz	May 06, 2021	Sep. 17, 2021~ Sep. 20, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 19, 2021	Sep. 17, 2021~ Sep. 20, 2021	Aug. 18, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Sep. 17, 2021~ Sep. 20, 2021	Dec. 10, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9038A	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 01, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Sep. 17, 2021~ Sep. 20, 2021	Mar. 04, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 16, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Sep. 17, 2021~ Sep. 20, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40 SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Sep. 17, 2021~ Sep. 20, 2021	Sep. 13, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-935 -1000-15000- 40ST	SN1	1GHz High Pass Filter	Apr. 29, 2021	Sep. 17, 2021~ Sep. 20, 2021	Apr. 28, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-270 0-3000-1800 0-60ST	SN4	3GHz High Pass Filter	Sep. 15, 2021	Sep. 17, 2021~ Sep. 20, 2021	Sep. 14, 2022	Radiation (03CH15-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Sep. 17, 2021~ Sep. 20, 2021	Jan. 30, 2022	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	N/A	Aug. 05, 2021	Oct. 08, 2021~ Oct. 13, 2021	Aug. 04, 2022	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	Oct. 08, 2021~ Oct. 13, 2021	Jan. 08, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.98 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.92 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.19	22.20	22.22	22.63	0.1832
20	1	49		22.13	22.17	22.13		
20	1	99		22.12	22.12	22.10		
20	50	0		21.32	21.30	21.36		
20	50	24		21.31	21.27	21.30		
20	50	50		21.29	21.29	21.31		
20	100	0		21.30	21.30	21.32		
20	1	0	16-QAM	21.57	21.51	21.54	21.98	0.1578
20	1	49		21.45	21.53	21.45		
20	1	99		21.46	21.49	21.42		
20	50	0		20.21	20.27	20.25		
20	50	24		20.32	20.32	20.33		
20	50	50		20.31	20.35	20.32		
20	100	0		20.30	20.27	20.31		
20	1	0	64-QAM	20.38	20.41	20.34	20.87	0.1222
20	1	49		20.36	20.46	20.42		
20	1	99		20.33	20.39	20.40		
20	50	0		19.25	19.30	19.24		
20	50	24		19.32	19.31	19.34		
20	50	50		19.33	19.37	19.32		
20	100	0		19.30	19.28	19.32		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.11	22.14	22.13	22.55	0.1799
15	1	37		22.06	22.14	22.10		
15	1	74		22.07	22.12	22.00		
15	36	0		21.22	21.17	21.30		
15	36	20		21.26	21.20	21.26		
15	36	39		21.27	21.28	21.30		
15	75	0		21.22	21.18	21.23		
15	1	0	16-QAM	21.57	21.52	21.53	21.98	0.1578
15	1	37		21.35	21.47	21.40		
15	1	74		21.39	21.40	21.37		
15	36	0		20.20	20.18	20.17		
15	36	20		20.27	20.22	20.27		
15	36	39		20.24	20.30	20.29		
15	75	0		20.24	20.23	20.22		
15	1	0	64-QAM	20.32	20.31	20.28	20.82	0.1208
15	1	37		20.31	20.41	20.39		
15	1	74		20.33	20.32	20.40		
15	36	0		19.21	19.21	19.18		
15	36	20		19.29	19.23	19.26		
15	36	39		19.32	19.33	19.29		
15	75	0		19.20	19.22	19.28		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.10	22.16	22.12	22.57	0.1807
10	1	25		22.06	22.14	22.07		
10	1	49		22.09	22.13	22.10		
10	25	0		21.20	21.24	21.25		
10	25	12		21.10	21.27	21.20		
10	25	25		21.19	21.36	21.29		
10	50	0		21.16	21.24	21.28		
10	1	0	16-QAM	21.49	21.57	21.48	22.01	0.1589
10	1	25		21.45	21.60	21.48		
10	1	49		21.44	21.56	21.48		
10	25	0		20.25	20.23	20.16		
10	25	12		20.28	20.27	20.22		
10	25	25		20.26	20.36	20.27		
10	50	0		20.30	20.24	20.17		
10	1	0	64-QAM	20.36	20.36	20.35	20.92	0.1236
10	1	25		20.33	20.51	20.37		
10	1	49		20.37	20.43	20.35		
10	25	0		19.29	19.27	19.19		
10	25	12		19.32	19.29	19.24		
10	25	25		19.32	19.38	19.29		
10	50	0		19.32	19.27	19.24		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.02	22.08	22.09	22.54	0.1795
5	1	12		22.04	22.13	22.04		
5	1	24		22.02	22.11	22.00		
5	12	0		21.18	21.12	21.26		
5	12	7		21.24	21.15	21.25		
5	12	13		21.26	21.20	21.22		
5	25	0		21.19	21.16	21.23		
5	1	0	16-QAM	21.54	21.45	21.44	21.95	0.1567
5	1	12		21.28	21.47	21.34		
5	1	24		21.36	21.32	21.32		
5	12	0		20.13	20.13	20.08		
5	12	7		20.26	20.21	20.18		
5	12	13		20.18	20.28	20.27		
5	25	0		20.19	20.20	20.21		
5	1	0	64-QAM	20.30	20.30	20.18	20.73	0.1183
5	1	12		20.27	20.32	20.31		
5	1	24		20.25	20.30	20.32		
5	12	0		19.17	19.21	19.14		
5	12	7		19.26	19.21	19.26		
5	12	13		19.27	19.32	19.19		
5	25	0		19.12	19.19	19.19		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.01	22.09	22.07	22.50	0.1778
3	1	8		22.06	22.05	22.07		
3	1	14		22.08	22.06	22.07		
3	8	0		21.17	21.23	21.20		
3	8	4		21.09	21.20	21.19		
3	8	7		21.13	21.26	21.28		
3	15	0		21.07	21.17	21.26		
3	1	0	16-QAM	21.45	21.54	21.43	21.97	0.1574
3	1	8		21.44	21.56	21.40		
3	1	14		21.34	21.56	21.44		
3	8	0		20.24	20.21	20.16		
3	8	4		20.28	20.23	20.15		
3	8	7		20.26	20.35	20.23		
3	15	0		20.25	20.17	20.13		
3	1	0	64-QAM	20.26	20.31	20.25	20.88	0.1225
3	1	8		20.29	20.47	20.37		
3	1	14		20.35	20.37	20.32		
3	8	0		19.20	19.20	19.13		
3	8	4		19.29	19.23	19.23		
3	8	7		19.30	19.28	19.28		
3	15	0		19.31	19.27	19.14		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.18	22.15	22.14	22.60	0.1820
1.4	1	3		22.07	22.08	22.07		
1.4	1	5		22.09	22.10	22.04		
1.4	3	0		22.17	22.12	22.19		
1.4	3	1		22.10	22.12	22.10		
1.4	3	3		22.02	22.10	22.07		
1.4	6	0		21.25	21.22	21.22		
1.4	1	0	16-QAM	21.51	21.41	21.52	21.94	0.1563
1.4	1	3		21.36	21.49	21.45		
1.4	1	5		21.40	21.46	21.39		
1.4	3	0		21.53	21.44	21.50		
1.4	3	1		21.37	21.50	21.36		
1.4	3	3		21.42	21.40	21.32		
1.4	6	0		20.25	20.23	20.24		
1.4	1	0	64-QAM	20.34	20.37	20.28	20.87	0.1222
1.4	1	3		20.28	20.46	20.42		
1.4	1	5		20.26	20.38	20.35		
1.4	3	0		20.32	20.36	20.30		
1.4	3	1		20.27	20.42	20.41		
1.4	3	3		20.33	20.36	20.33		
1.4	6	0		19.24	19.21	19.24		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG182625B

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.23	22.24	22.21	22.65	0.1841
20	1	49		22.17	22.18	22.17		
20	1	99		22.16	22.17	22.08		
20	50	0		21.32	21.39	21.25		
20	50	24		21.26	21.29	21.27		
20	50	50		21.25	21.33	21.27		
20	100	0		21.33	21.35	21.27		
20	1	0	16-QAM	21.58	21.56	21.56	21.99	0.1581
20	1	49		21.49	21.54	21.55		
20	1	99		21.45	21.48	21.42		
20	50	0		20.26	20.31	20.26		
20	50	24		20.33	20.38	20.27		
20	50	50		20.30	20.34	20.29		
20	100	0		20.32	20.34	20.25		
20	1	0	64-QAM	20.40	20.49	20.39	20.90	0.1230
20	1	49		20.36	20.49	20.34		
20	1	99		20.28	20.38	20.08		
20	50	0		19.30	19.32	19.30		
20	50	24		19.37	19.39	19.28		
20	50	50		19.30	19.34	19.25		
20	100	0		19.34	19.38	19.23		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.20	22.21	22.16	22.62	0.1828
15	1	37		22.09	22.14	22.13		
15	1	74		22.13	22.17	22.11		
15	36	0		21.23	21.24	21.21		
15	36	20		21.25	21.33	21.21		
15	36	39		21.21	21.28	21.21		
15	75	0		21.26	21.30	21.18		
15	1	0	16-QAM	21.48	21.54	21.52	21.95	0.1567
15	1	37		21.44	21.49	21.49		
15	1	74		21.38	21.50	21.43		
15	36	0		20.20	20.27	20.23		
15	36	20		20.27	20.30	20.18		
15	36	39		20.19	20.28	20.21		
15	75	0		20.24	20.31	20.18		
15	1	0	64-QAM	20.28	20.42	20.33	20.87	0.1222
15	1	37		20.42	20.46	20.36		
15	1	74		20.26	20.37	20.27		
15	36	0		19.25	19.30	19.27		
15	36	20		19.28	19.34	19.24		
15	36	39		19.28	19.28	19.09		
15	75	0		19.27	19.32	19.18		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.16	22.18	22.18	22.61	0.1824
10	1	25		22.15	22.16	22.15		
10	1	49		22.10	22.20	22.13		
10	25	0		21.27	21.24	21.20		
10	25	12		21.29	21.35	21.21		
10	25	25		21.30	21.34	21.31		
10	50	0		21.29	21.37	21.22		
10	1	0	16-QAM	21.58	21.58	21.50	22.00	0.1585
10	1	25		21.53	21.59	21.56		
10	1	49		21.53	21.58	21.48		
10	25	0		20.27	20.26	20.21		
10	25	12		20.29	20.35	20.19		
10	25	25		20.33	20.32	20.28		
10	50	0		20.30	20.31	20.15		
10	1	0	64-QAM	20.40	20.44	20.36	20.95	0.1245
10	1	25		20.43	20.54	20.42		
10	1	49		20.42	20.46	20.32		
10	25	0		19.31	19.30	19.23		
10	25	12		19.32	19.42	19.27		
10	25	25		19.29	19.36	18.86		
10	50	0		19.30	19.39	19.16		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.09	22.09	22.10	22.54	0.1795
5	1	12		22.07	22.13	22.12		
5	1	24		22.04	22.11	22.04		
5	12	0		21.23	21.14	21.20		
5	12	7		21.21	21.35	21.17		
5	12	13		21.25	21.27	21.24		
5	25	0		21.21	21.37	21.19		
5	1	0	16-QAM	21.48	21.48	21.43	21.96	0.1570
5	1	12		21.47	21.50	21.49		
5	1	24		21.45	21.55	21.46		
5	12	0		20.21	20.18	20.15		
5	12	7		20.21	20.27	20.10		
5	12	13		20.26	20.26	20.18		
5	25	0		20.20	20.30	20.05		
5	1	0	64-QAM	20.32	20.41	20.27	20.86	0.1219
5	1	12		20.35	20.44	20.41		
5	1	24		20.38	20.45	20.22		
5	12	0		19.26	19.29	19.22		
5	12	7		19.26	19.40	19.19		
5	12	13		19.25	19.28	18.83		
5	25	0		19.20	19.36	19.08		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.05	22.01	22.06	22.51	0.1782
3	1	8		22.00	22.09	22.10		
3	1	14		22.06	22.06	22.00		
3	8	0		21.18	21.09	21.13		
3	8	4		21.14	21.30	21.15		
3	8	7		21.20	21.24	21.15		
3	15	0		21.14	21.32	21.19		
3	1	0	16-QAM	21.46	21.47	21.41	21.88	0.1542
3	1	8		21.40	21.45	21.41		
3	1	14		21.40	21.47	21.36		
3	8	0		20.18	20.13	20.07		
3	8	4		20.20	20.25	20.00		
3	8	7		20.18	20.16	20.17		
3	15	0		20.14	20.29	20.01		
3	1	0	64-QAM	20.30	20.35	20.24	20.82	0.1208
3	1	8		20.32	20.37	20.33		
3	1	14		20.34	20.41	20.15		
3	8	0		19.18	19.28	19.22		
3	8	4		19.17	19.31	19.18		
3	8	7		19.18	19.28	18.78		
3	15	0		19.16	19.32	19.06		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.22	22.20	22.17	22.63	0.1832
1.4	1	3		22.07	22.09	22.12		
1.4	1	5		22.12	22.13	22.03		
1.4	3	0		22.15	22.21	22.14		
1.4	3	1		22.10	22.09	22.14		
1.4	3	3		22.14	22.11	22.08		
1.4	6	0		21.33	21.25	21.21		
1.4	1	0	16-QAM	21.48	21.54	21.51	21.96	0.1570
1.4	1	3		21.45	21.52	21.54		
1.4	1	5		21.39	21.47	21.42		
1.4	3	0		21.55	21.46	21.49		
1.4	3	1		21.44	21.54	21.55		
1.4	3	3		21.45	21.44	21.35		
1.4	6	0		20.31	20.32	20.21		
1.4	1	0	64-QAM	20.34	20.49	20.33	20.90	0.1230
1.4	1	3		20.34	20.39	20.29		
1.4	1	5		20.26	20.32	20.06		
1.4	3	0		20.33	20.49	20.39		
1.4	3	1		20.32	20.46	20.24		
1.4	3	3		20.22	20.36	20.08		
1.4	6	0		19.33	19.30	19.21		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.30	22.27	22.22	22.11	0.1626
20	1	49		22.06	22.00	22.06		
20	1	99		22.01	22.05	22.05		
20	50	0		21.39	21.34	21.20		
20	50	24		21.20	21.25	21.23		
20	50	50		21.11	21.12	21.13		
20	100	0		21.25	21.22	21.19		
20	1	0	16-QAM	21.70	21.59	21.53	21.51	0.1416
20	1	49		21.46	21.35	21.36		
20	1	99		21.34	21.32	21.32		
20	50	0		20.39	20.33	20.24		
20	50	24		20.23	20.26	20.20		
20	50	50		20.13	20.15	20.13		
20	100	0		20.19	20.23	20.19		
20	1	0	64-QAM	20.53	20.58	20.41	20.39	0.1094
20	1	49		20.29	20.27	20.26		
20	1	99		20.13	20.23	20.25		
20	50	0		19.41	19.35	19.25		
20	50	24		19.23	19.26	19.27		
20	50	50		19.14	19.17	19.17		
20	100	0		19.21	19.24	19.24		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.23	22.24	22.19	22.05	0.1603
15	1	37		22.00	22.03	22.06		
15	1	74		22.06	22.00	22.01		
15	36	0		21.29	21.26	21.19		
15	36	20		21.16	21.18	21.19		
15	36	39		21.06	21.07	21.06		
15	75	0		21.13	21.15	21.10		
15	1	0	16-QAM	21.60	21.55	21.52	21.41	0.1384
15	1	37		21.35	21.30	21.32		
15	1	74		21.32	21.29	21.28		
15	36	0		20.31	20.24	20.18		
15	36	20		20.12	20.20	20.17		
15	36	39		20.10	20.05	20.12		
15	75	0		20.13	20.13	20.09		
15	1	0	64-QAM	20.49	20.57	20.41	20.38	0.1091
15	1	37		20.29	20.23	20.20		
15	1	74		20.18	20.16	20.19		
15	36	0		19.35	19.31	19.24		
15	36	20		19.16	19.20	19.24		
15	36	39		19.12	19.09	19.16		
15	75	0		19.16	19.21	19.18		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.23	22.15	22.02	22.04	0.1600
10	1	25		22.16	22.05	22.00		
10	1	49		22.12	22.02	22.04		
10	25	0		21.33	21.26	21.12		
10	25	12		21.29	21.28	21.17		
10	25	25		21.28	21.25	21.23		
10	50	0		21.29	21.25	21.15		
10	1	0	16-QAM	21.62	21.51	21.44	21.43	0.1390
10	1	25		21.59	21.48	21.46		
10	1	49		21.48	21.42	21.42		
10	25	0		20.39	20.25	20.21		
10	25	12		20.30	20.27	20.18		
10	25	25		20.28	20.24	20.23		
10	50	0		20.27	20.25	20.18		
10	1	0	64-QAM	20.49	20.44	20.34	20.30	0.1072
10	1	25		20.49	20.33	20.40		
10	1	49		20.44	20.31	20.38		
10	25	0		19.40	19.27	19.20		
10	25	12		19.34	19.31	19.23		
10	25	25		19.33	19.28	19.25		
10	50	0		19.34	19.28	19.20		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.20	22.12	22.18	22.01	0.1589
5	1	12		22.08	22.06	22.05		
5	1	24		22.06	22.04	22.01		
5	12	0		21.31	21.22	21.08		
5	12	7		21.24	21.27	21.07		
5	12	13		21.28	21.16	21.18		
5	25	0		21.26	21.22	21.05		
5	1	0	16-QAM	21.52	21.50	21.35	21.33	0.1358
5	1	12		21.52	21.48	21.36		
5	1	24		21.48	21.39	21.42		
5	12	0		20.35	20.24	20.11		
5	12	7		20.24	20.27	20.11		
5	12	13		20.19	20.15	20.14		
5	25	0		20.24	20.18	20.16		
5	1	0	64-QAM	20.46	20.35	20.24	20.27	0.1064
5	1	12		20.42	20.28	20.30		
5	1	24		20.41	20.27	20.28		
5	12	0		19.33	19.27	19.20		
5	12	7		19.34	19.26	19.14		
5	12	13		19.33	19.26	19.25		
5	25	0		19.33	19.22	19.11		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.18	22.06	22.02	21.99	0.1581
3	1	8		22.05	22.04	22.00		
3	1	14		22.01	22.01	22.02		
3	8	0		21.22	21.14	21.08		
3	8	4		21.21	21.25	21.03		
3	8	7		21.28	21.14	21.09		
3	15	0		21.20	21.22	21.05		
3	1	0	16-QAM	21.52	21.48	21.35	21.33	0.1358
3	1	8		21.46	21.44	21.31		
3	1	14		21.41	21.34	21.40		
3	8	0		20.28	20.21	20.07		
3	8	4		20.19	20.19	20.06		
3	8	7		20.09	20.09	20.07		
3	15	0		20.16	20.09	20.14		
3	1	0	64-QAM	20.38	20.32	20.15	20.23	0.1054
3	1	8		20.42	20.28	20.29		
3	1	14		20.41	20.22	20.22		
3	8	0		19.29	19.23	19.18		
3	8	4		19.31	19.19	19.13		
3	8	7		19.25	19.18	19.18		
3	15	0		19.25	19.17	19.11		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.19 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.20	22.27	22.18	22.09	0.1618
1.4	1	3		22.06	22.07	22.06		
1.4	1	5		22.09	22.05	22.00		
1.4	3	0		22.28	22.18	22.14		
1.4	3	1		22.01	22.08	22.01		
1.4	3	3		22.02	22.05	22.01		
1.4	6	0		21.16	21.18	21.19		
1.4	1	0	16-QAM	21.67	21.59	21.51	21.51	0.1416
1.4	1	3		21.44	21.32	21.32		
1.4	1	5		21.32	21.25	21.30		
1.4	3	0		21.70	21.59	21.43		
1.4	3	1		21.36	21.32	21.36		
1.4	3	3		21.31	21.24	21.28		
1.4	6	0		20.17	20.18	20.14		
1.4	1	0	64-QAM	20.53	20.55	20.36	20.36	0.1086
1.4	1	3		20.23	20.25	20.23		
1.4	1	5		20.06	20.22	20.25		
1.4	3	0		20.48	20.51	20.31		
1.4	3	1		20.26	20.20	20.19		
1.4	3	3		20.08	20.20	20.25		
1.4	6	0		19.11	19.19	19.20		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.60	22.64	22.36	20.28	0.1067
10	1	25		22.25	22.27	22.06		
10	1	49		22.27	22.37	22.06		
10	25	0		21.33	21.48	21.16		
10	25	12		21.21	21.46	21.13		
10	25	25		21.19	21.39	21.03		
10	50	0		21.21	21.46	21.12		
10	1	0	16-QAM	21.63	21.76	21.45	19.40	0.0871
10	1	25		21.57	21.65	21.30		
10	1	49		21.39	21.59	21.47		
10	25	0		20.30	20.42	20.17		
10	25	12		20.24	20.44	20.13		
10	25	25		20.16	20.40	20.07		
10	50	0		20.23	20.44	20.15		
10	1	0	64-QAM	20.57	20.60	20.38	18.24	0.0667
10	1	25		20.16	20.26	20.18		
10	1	49		20.22	20.37	20.12		
10	25	0		19.27	19.36	19.31		
10	25	12		19.00	19.18	19.09		
10	25	25		19.28	19.05	19.00		
10	50	0		19.08	19.18	19.01		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.58	22.54	22.26	20.22	0.1052
5	1	12		22.17	22.25	22.02		
5	1	24		22.23	22.27	22.01		
5	12	0		21.30	21.46	21.09		
5	12	7		21.20	21.46	21.09		
5	12	13		21.19	21.34	21.03		
5	25	0		21.13	21.39	21.08		
5	1	0	16-QAM	21.55	21.66	21.37	19.30	0.0851
5	1	12		21.50	21.56	21.27		
5	1	24		21.38	21.52	21.46		
5	12	0		20.22	20.41	20.10		
5	12	7		20.16	20.35	20.11		
5	12	13		20.16	20.40	20.04		
5	25	0		20.14	20.43	20.07		
5	1	0	64-QAM	20.55	20.52	20.33	18.19	0.0659
5	1	12		20.11	20.19	20.15		
5	1	24		20.16	20.31	20.03		
5	12	0		19.19	19.36	19.23		
5	12	7		19.03	19.08	19.09		
5	12	13		19.27	19.05	19.03		
5	25	0		19.03	19.08	19.02		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.50	22.46	22.21	20.14	0.1033
3	1	8		22.12	22.23	22.03		
3	1	14		22.20	22.18	22.08		
3	8	0		21.23	21.41	21.07		
3	8	4		21.16	21.43	21.03		
3	8	7		21.11	21.32	21.19		
3	15	0		21.03	21.33	21.00		
3	1	0	16-QAM	21.54	21.62	21.29	19.26	0.0843
3	1	8		21.48	21.48	21.19		
3	1	14		21.28	21.49	21.44		
3	8	0		20.19	20.31	20.00		
3	8	4		20.15	20.32	20.09		
3	8	7		20.16	20.34	20.01		
3	15	0		20.07	20.36	20.03		
3	1	0	64-QAM	20.47	20.49	20.29	18.13	0.0650
3	1	8		20.07	20.15	20.06		
3	1	14		20.13	20.27	20.02		
3	8	0		19.25	19.29	19.17		
3	8	4		19.02	19.04	19.06		
3	8	7		19.30	19.02	19.00		
3	15	0		19.05	19.03	19.01		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.57	22.59	22.26	20.23	0.1054
1.4	1	3		22.20	22.21	22.03		
1.4	1	5		22.21	22.29	22.02		
1.4	3	0		22.55	22.56	22.31		
1.4	3	1		22.19	22.23	22.05		
1.4	3	3		22.19	22.33	22.01		
1.4	6	0		21.11	21.42	21.09		
1.4	1	0	16-QAM	21.62	21.72	21.35	19.36	0.0863
1.4	1	3		21.55	21.61	21.24		
1.4	1	5		21.34	21.59	21.37		
1.4	3	0		21.59	21.70	21.42		
1.4	3	1		21.52	21.65	21.26		
1.4	3	3		21.29	21.57	21.43		
1.4	6	0		20.21	20.42	20.09		
1.4	1	0	64-QAM	20.57	20.57	20.36	18.21	0.0662
1.4	1	3		20.07	20.24	20.15		
1.4	1	5		20.15	20.32	20.12		
1.4	3	0		20.53	20.51	20.37		
1.4	3	1		20.14	20.21	20.14		
1.4	3	3		20.16	20.32	20.10		
1.4	6	0		19.04	19.13	19.01		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.33	22.53	22.38	19.63	0.0918
20	1	49		22.26	22.42	22.36		
20	1	99		22.46	22.49	22.41		
20	50	0		21.53	21.66	21.54		
20	50	24		21.51	21.58	21.48		
20	50	50		21.36	21.54	21.44		
20	100	0		21.50	21.55	21.46		
20	1	0	16-QAM	21.63	21.76	21.72	18.97	0.0789
20	1	49		21.69	21.87	21.73		
20	1	99		21.78	21.86	21.77		
20	50	0		20.37	20.53	20.46		
20	50	24		20.51	20.59	20.49		
20	50	50		20.57	20.67	20.57		
20	100	0		20.49	20.56	20.48		
20	1	0	64-QAM	20.48	20.58	20.60	17.89	0.0615
20	1	49		20.60	20.73	20.58		
20	1	99		20.30	20.79	20.66		
20	50	0		19.39	19.58	19.48		
20	50	24		19.53	19.61	19.51		
20	50	50		19.56	19.69	19.58		
20	100	0		19.54	19.59	19.46		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.43	22.35	22.20	19.62	0.0916
15	1	37		22.48	22.32	22.09		
15	1	74		22.52	22.38	22.13		
15	36	0		21.50	21.40	21.23		
15	36	20		21.53	21.43	21.25		
15	36	39		21.59	21.47	21.21		
15	75	0		21.52	21.39	21.26		
15	1	0	16-QAM	21.77	21.71	21.48	18.94	0.0783
15	1	37		21.82	21.66	21.44		
15	1	74		21.84	21.76	21.38		
15	36	0		20.50	20.39	20.20		
15	36	20		20.53	20.40	20.27		
15	36	39		20.60	20.50	20.19		
15	75	0		20.53	20.40	20.24		
15	1	0	64-QAM	20.60	20.53	20.28	17.80	0.0603
15	1	37		20.69	20.61	20.42		
15	1	74		20.70	20.65	20.26		
15	36	0		19.55	19.45	19.25		
15	36	20		19.55	19.48	19.28		
15	36	39		19.64	19.53	19.28		
15	75	0		19.53	19.41	19.27		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.23	22.41	22.33	19.57	0.0906
10	1	25		22.25	22.44	22.27		
10	1	49		22.35	22.47	22.33		
10	25	0		21.40	21.51	21.49		
10	25	12		21.43	21.56	21.50		
10	25	25		21.45	21.62	21.45		
10	50	0		21.44	21.54	21.49		
10	1	0	16-QAM	21.63	21.75	21.71	18.92	0.0780
10	1	25		21.62	21.79	21.68		
10	1	49		21.67	21.82	21.74		
10	25	0		20.39	20.54	20.49		
10	25	12		20.47	20.56	20.52		
10	25	25		20.43	20.64	20.47		
10	50	0		20.41	20.55	20.49		
10	1	0	64-QAM	20.53	20.64	20.60	17.85	0.0610
10	1	25		20.46	20.74	20.62		
10	1	49		20.57	20.75	20.61		
10	25	0		19.39	19.56	19.51		
10	25	12		19.47	19.63	19.56		
10	25	25		19.47	19.67	19.53		
10	50	0		19.45	19.59	19.52		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.16	22.34	22.32	19.53	0.0897
5	1	12		22.19	22.43	22.19		
5	1	24		22.35	22.41	22.32		
5	12	0		21.38	21.44	21.45		
5	12	7		21.42	21.56	21.46		
5	12	13		21.42	21.60	21.37		
5	25	0		21.34	21.47	21.47		
5	1	0	16-QAM	21.60	21.73	21.70	18.90	0.0776
5	1	12		21.56	21.71	21.59		
5	1	24		21.57	21.80	21.74		
5	12	0		20.35	20.49	20.43		
5	12	7		20.46	20.55	20.42		
5	12	13		20.34	20.62	20.44		
5	25	0		20.40	20.50	20.44		
5	1	0	64-QAM	20.46	20.62	20.56	17.76	0.0597
5	1	12		20.41	20.64	20.58		
5	1	24		20.50	20.66	20.59		
5	12	0		19.29	19.46	19.45		
5	12	7		19.43	19.59	19.55		
5	12	13		19.45	19.63	19.45		
5	25	0		19.39	19.49	19.43		
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.45	22.56	22.66	16.79	0.0478
10	1	25		22.36	22.39	22.48		
10	1	49		22.15	22.27	22.34		
10	25	0		21.52	21.63	21.72		
10	25	12		21.44	21.55	21.57		
10	25	25		21.34	21.44	21.52		
10	50	0		21.48	21.57	21.57		
10	1	0	16-QAM	21.53	21.62	21.72	16.18	0.0415
10	1	25		21.72	21.80	21.86		
10	1	49		21.86	21.99	22.05		
10	25	0		20.33	20.42	20.52		
10	25	12		20.47	20.56	20.57		
10	25	25		20.52	20.64	20.71		
10	50	0		20.48	20.57	20.59		
10	1	0	64-QAM	20.40	20.45	20.58	14.87	0.0307
10	1	25		20.60	20.74	20.56		
10	1	49		20.69	20.59	20.54		
10	25	0		19.35	19.34	19.40		
10	25	12		19.52	19.50	19.40		
10	25	25		19.41	19.44	19.66		
10	50	0		19.45	19.52	19.58		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.42	22.46	22.61	16.74	0.0472
5	1	12		22.26	22.34	22.41		
5	1	24		22.05	22.19	22.25		
5	12	0		21.50	21.53	21.62		
5	12	7		21.43	21.54	21.47		
5	12	13		21.25	21.44	21.43		
5	25	0		21.42	21.48	21.53		
5	1	0	16-QAM	21.51	21.53	21.69	16.17	0.0414
5	1	12		21.63	21.78	21.80		
5	1	24		21.81	21.94	22.04		
5	12	0		20.30	20.32	20.43		
5	12	7		20.44	20.55	20.51		
5	12	13		20.42	20.56	20.68		
5	25	0		20.44	20.53	20.50		
5	1	0	64-QAM	20.34	20.36	20.53	14.77	0.0300
5	1	12		20.51	20.64	20.50		
5	1	24		20.59	20.57	20.46		
5	12	0		19.31	19.29	19.39		
5	12	7		19.49	19.49	19.33		
5	12	13		19.40	19.35	19.64		
5	25	0		19.38	19.42	19.52		
Limit	ERP < 3W			Result			Pass	



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LTE Band 12 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.41	22.38	22.57	16.7	0.0468
3	1	8		22.23	22.29	22.36		
3	1	14		22.05	22.18	22.21		
3	8	0		21.45	21.49	21.62		
3	8	4		21.39	21.51	21.44		
3	8	7		21.19	21.35	21.33		
3	15	0		21.40	21.40	21.43		
3	1	0	16-QAM	21.42	21.44	21.62	16.07	0.0405
3	1	8		21.57	21.70	21.72		
3	1	14		21.81	21.94	21.94		
3	8	0		20.28	20.32	20.37		
3	8	4		20.34	20.50	20.43		
3	8	7		20.40	20.55	20.68		
3	15	0		20.38	20.46	20.43		
3	1	0	64-QAM	20.31	20.33	20.44	14.77	0.0300
3	1	8		20.45	20.64	20.50		
3	1	14		20.59	20.47	20.41		
3	8	0		19.24	19.24	19.31		
3	8	4		19.45	19.47	19.30		
3	8	7		19.35	19.33	19.57		
3	15	0		19.28	19.42	19.52		
Limit	ERP < 3W			Result			Pass	



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LTE Band 12 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.23	22.51	22.71	16.84	0.0483
1.4	1	3		22.21	22.61	22.62		
1.4	1	5		22.32	22.56	22.68		
1.4	3	0		22.25	22.52	22.58		
1.4	3	1		22.27	22.60	22.71		
1.4	3	3		22.35	22.57	22.55		
1.4	6	0		21.52	21.63	21.82		
1.4	1	0	16-QAM	21.62	21.83	22.01	16.33	0.0430
1.4	1	3		21.73	21.92	22.12		
1.4	1	5		21.75	21.84	22.18		
1.4	3	0		21.68	21.56	22.20		
1.4	3	1		21.65	21.69	21.92		
1.4	3	3		21.58	21.60	21.85		
1.4	6	0		21.72	21.79	21.99		
1.4	1	0	64-QAM	20.55	20.75	20.92	15.16	0.0328
1.4	1	3		20.65	20.81	20.85		
1.4	1	5		20.48	20.71	20.93		
1.4	3	0		20.45	20.69	21.03		
1.4	3	1		20.46	20.71	20.85		
1.4	3	3		20.35	20.60	20.73		
1.4	6	0		19.35	19.45	19.85		
Limit	ERP < 3W			Result			Pass	



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LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.35 dB)												
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)				
10	1	0	QPSK	-	22.46	-	19.96	0.0991				
10	1	25			22.36							
10	1	49			22.33							
10	25	0			21.46							
10	25	12			21.43							
10	25	25			21.41							
10	50	0			21.46							
10	1	0	16-QAM		21.78		-	19.28	0.0847			
10	1	25			21.62							
10	1	49			21.68							
10	25	0			20.48							
10	25	12			20.45							
10	25	25			20.51							
10	50	0			20.51							
10	1	0	64-QAM		20.60			-	18.12	0.0649		
10	1	25			20.62							
10	1	49			20.57							
10	25	0			19.53							
10	25	12			19.53							
10	25	25			19.54							
10	50	0			19.49							
Limit	ERP < 3W				Result				Pass			



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.37	22.38	22.37	19.88	0.0973
5	1	12		22.22	22.26	22.26		
5	1	24		22.19	22.15	22.23		
5	12	0		21.36	21.37	21.29		
5	12	7		21.33	21.32	21.24		
5	12	13		21.23	21.30	21.28		
5	25	0		21.31	21.34	21.29		
5	1	0	16-QAM	21.62	21.67	21.59	19.17	0.0826
5	1	12		21.53	21.48	21.48		
5	1	24		21.58	21.58	21.49		
5	12	0		20.35	20.36	20.30		
5	12	7		20.33	20.29	20.27		
5	12	13		20.41	20.33	20.40		
5	25	0		20.34	20.38	20.37		
5	1	0	64-QAM	20.46	20.52	20.50	18.04	0.0637
5	1	12		20.49	20.54	20.46		
5	1	24		20.48	20.46	20.42		
5	12	0		19.39	19.39	19.36		
5	12	7		19.44	19.41	19.38		
5	12	13		19.38	19.38	19.38		
5	25	0		19.31	19.33	19.37		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.51	22.60	22.53	16.73	0.0471
10	1	25		22.35	22.40	22.38		
10	1	49		22.18	22.23	22.27		
10	25	0		21.64	21.68	21.65		
10	25	12		21.47	21.48	21.53		
10	25	25		21.31	21.35	21.38		
10	50	0		21.44	21.53	21.51		
10	1	0	16-QAM	21.56	21.59	21.65	16.11	0.0408
10	1	25		21.74	21.79	21.82		
10	1	49		21.98	21.98	21.90		
10	25	0		20.33	20.33	20.37		
10	25	12		20.46	20.47	20.50		
10	25	25		20.64	20.67	20.68		
10	50	0		20.49	20.48	20.48		
10	1	0	64-QAM	20.42	20.45	20.51	15.03	0.0318
10	1	25		20.72	20.68	20.71		
10	1	49		20.84	20.90	20.77		
10	25	0		19.35	19.39	19.40		
10	25	12		19.51	19.55	19.55		
10	25	25		19.66	19.67	19.69		
10	50	0		19.50	19.46	19.54		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = -3.72 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.44	22.58	22.44	16.71	0.0469
5	1	12		22.28	22.31	22.38		
5	1	24		22.16	22.18	22.23		
5	12	0		21.55	21.65	21.58		
5	12	7		21.45	21.40	21.44		
5	12	13		21.26	21.28	21.28		
5	25	0		21.42	21.52	21.41		
5	1	0	16-QAM	21.56	21.55	21.64	16.06	0.0404
5	1	12		21.66	21.76	21.80		
5	1	24		21.88	21.93	21.80		
5	12	0		20.24	20.26	20.28		
5	12	7		20.45	20.38	20.48		
5	12	13		20.55	20.62	20.66		
5	25	0		20.39	20.46	20.45		
5	1	0	64-QAM	20.40	20.36	20.46	14.93	0.0311
5	1	12		20.69	20.67	20.71		
5	1	24		20.79	20.80	20.70		
5	12	0		19.35	19.30	19.37		
5	12	7		19.42	19.53	19.53		
5	12	13		19.58	19.62	19.60		
5	25	0		19.42	19.46	19.52		
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.48	22.24	22.11	20.12	0.1028
15	1	37		22.27	22.17	22.09		
15	1	74		22.18	22.05	22.02		
15	36	0		21.50	21.32	21.20		
15	36	20		21.47	21.28	21.12		
15	36	39		21.45	21.19	21.04		
15	75	0		21.49	21.27	21.17		
15	1	0	16-QAM	21.72	21.58	21.41	19.36	0.0863
15	1	37		21.62	21.49	21.23		
15	1	74		21.49	21.30	21.05		
15	36	0		20.47	20.34	20.21		
15	36	20		20.49	20.25	20.10		
15	36	39		20.40	20.18	20.03		
15	75	0		20.49	20.28	20.15		
15	1	0	64-QAM	20.16	20.42	20.33	18.06	0.0640
15	1	37		20.31	20.37	20.02		
15	1	74		20.22	20.05	20.03		
15	36	0		19.02	19.31	19.27		
15	36	20		19.18	19.30	19.11		
15	36	39		19.17	19.27	18.73		
15	75	0		19.10	19.28	18.96		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.45	22.38	22.12	20.09	0.1021
10	1	25		22.40	22.26	22.09		
10	1	49		22.33	22.18	22.02		
10	25	0		21.54	21.36	21.16		
10	25	12		21.60	21.34	21.12		
10	25	25		21.52	21.25	21.05		
10	50	0		21.59	21.35	21.09		
10	1	0	16-QAM	21.88	21.73	21.48	19.52	0.0895
10	1	25		21.83	21.64	21.37		
10	1	49		21.71	21.60	21.26		
10	25	0		20.48	20.33	20.14		
10	25	12		20.60	20.37	20.16		
10	25	25		20.56	20.29	20.05		
10	50	0		20.58	20.33	20.14		
10	1	0	64-QAM	20.04	20.60	20.41	18.25	0.0668
10	1	25		20.45	20.61	20.03		
10	1	49		20.43	20.48	20.31		
10	25	0		19.05	19.42	19.04		
10	25	12		19.21	19.36	18.94		
10	25	25		19.20	19.30	18.60		
10	50	0		19.11	19.38	18.82		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.36	22.32	22.02	20.00	0.1000
5	1	12		22.30	22.25	22.03		
5	1	24		22.30	22.08	22.07		
5	12	0		21.49	21.32	21.08		
5	12	7		21.54	21.27	21.08		
5	12	13		21.44	21.16	21.00		
5	25	0		21.49	21.29	21.00		
5	1	0	16-QAM	21.83	21.73	21.44	19.47	0.0885
5	1	12		21.76	21.59	21.28		
5	1	24		21.68	21.59	21.16		
5	12	0		20.40	20.25	20.11		
5	12	7		20.56	20.28	20.15		
5	12	13		20.47	20.28	20.00		
5	25	0		20.50	20.28	20.07		
5	1	0	64-QAM	20.03	20.52	20.36	18.17	0.0656
5	1	12		20.44	20.53	20.17		
5	1	24		20.34	20.39	20.29		
5	12	0		19.00	19.33	19.01		
5	12	7		19.18	19.27	18.84		
5	12	13		19.19	19.29	18.53		
5	25	0		19.07	19.31	18.73		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.33	22.30	22.06	19.97	0.0993
3	1	8		22.22	22.24	22.01		
3	1	14		22.23	22.00	22.07		
3	8	0		21.47	21.32	21.01		
3	8	4		21.50	21.24	21.06		
3	8	7		21.41	21.07	21.05		
3	15	0		21.48	21.22	21.02		
3	1	0	16-QAM	21.83	21.65	21.40	19.47	0.0885
3	1	8		21.70	21.52	21.24		
3	1	14		21.68	21.57	21.12		
3	8	0		20.36	20.23	20.10		
3	8	4		20.51	20.20	20.10		
3	8	7		20.42	20.21	20.04		
3	15	0		20.41	20.22	20.08		
3	1	0	64-QAM	20.02	20.42	20.32	18.15	0.0653
3	1	8		20.43	20.51	20.07		
3	1	14		20.28	20.36	20.25		
3	8	0		19.38	19.28	19.00		
3	8	4		19.16	19.22	18.78		
3	8	7		19.15	19.28	18.49		
3	15	0		19.04	19.28	18.73		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.40	22.21	22.11	20.10	0.1023
1.4	1	3		22.19	22.08	22.07		
1.4	1	5		22.14	22.00	22.00		
1.4	3	0		22.46	22.17	22.05		
1.4	3	1		22.23	22.07	22.06		
1.4	3	3		22.18	22.02	22.04		
1.4	6	0		21.43	21.24	21.07		
1.4	1	0	16-QAM	21.66	21.58	21.35	19.36	0.0863
1.4	1	3		21.58	21.41	21.15		
1.4	1	5		21.45	21.27	21.03		
1.4	3	0		21.72	21.51	21.33		
1.4	3	1		21.53	21.46	21.17		
1.4	3	3		21.44	21.26	21.04		
1.4	6	0		20.46	20.24	20.08		
1.4	1	0	64-QAM	20.08	20.40	20.32	18.06	0.0640
1.4	1	3		20.29	20.31	20.03		
1.4	1	5		20.16	20.04	20.03		
1.4	3	0		20.06	20.42	20.32		
1.4	3	1		20.25	20.35	20.08		
1.4	3	3		20.15	20.01	20.05		
1.4	6	0		19.00	19.26	19.10		
Limit	ERP < 7W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -2.57 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.42	22.33	22.34	19.85	0.0966
20	1	49		22.39	22.40	22.40		
20	1	99		22.40	22.39	22.38		
20	50	0		21.58	21.50	21.49		
20	50	24		21.48	21.50	21.49		
20	50	50		21.57	21.56	21.55		
20	100	0		21.59	21.49	21.49		
20	1	0	16-QAM	21.52	21.50	21.46	18.96	0.0787
20	1	49		21.47	21.50	21.46		
20	1	99		21.52	21.53	21.52		
20	50	0		20.53	20.52	20.53		
20	50	24		20.62	20.53	20.52		
20	50	50		20.59	20.58	20.58		
20	100	0		20.60	20.50	20.51		
20	1	0	64-QAM	20.24	20.19	20.13	17.69	0.0587
20	1	49		20.22	20.20	20.17		
20	1	99		20.26	20.21	20.23		
20	50	0		19.54	19.55	19.52		
20	50	24		19.63	19.55	19.53		
20	50	50		19.58	19.59	19.58		
20	100	0		19.60	19.51	19.51		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -2.57 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.35	22.29	22.30	19.81	0.0957
15	1	37		22.38	22.38	22.34		
15	1	74		22.35	22.36	22.29		
15	36	0		21.41	21.47	21.46		
15	36	20		21.48	21.49	21.45		
15	36	39		21.52	21.53	21.51		
15	75	0		21.55	21.48	21.42		
15	1	0	16-QAM	21.50	21.47	21.37	18.93	0.0782
15	1	37		21.47	21.41	21.42		
15	1	74		21.46	21.44	21.48		
15	36	0		20.48	20.50	20.49		
15	36	20		20.61	20.46	20.42		
15	36	39		20.59	20.57	20.53		
15	75	0		20.60	20.42	20.49		
15	1	0	64-QAM	20.17	20.17	20.12	17.64	0.0581
15	1	37		20.16	20.17	20.10		
15	1	74		20.21	20.14	20.13		
15	36	0		19.47	19.55	19.47		
15	36	20		19.59	19.55	19.49		
15	36	39		19.57	19.55	19.49		
15	75	0		19.58	19.47	19.44		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -2.57 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.39	22.41	22.19	19.84	0.0964
10	1	25		22.39	22.28	22.17		
10	1	49		22.32	22.36	22.09		
10	25	0		21.56	21.41	21.28		
10	25	12		21.56	21.42	21.38		
10	25	25		21.55	21.53	21.30		
10	50	0		21.55	21.44	21.36		
10	1	0	16-QAM	21.68	21.59	21.42	19.11	0.0815
10	1	25		21.58	21.55	21.32		
10	1	49		21.60	21.55	21.17		
10	25	0		20.54	20.43	20.27		
10	25	12		20.59	20.46	20.42		
10	25	25		20.50	20.54	20.25		
10	50	0		20.56	20.46	20.38		
10	1	0	64-QAM	20.54	20.37	20.10	17.97	0.0627
10	1	25		20.33	20.23	20.14		
10	1	49		20.33	20.19	20.01		
10	25	0		19.66	19.53	19.39		
10	25	12		19.66	19.52	19.38		
10	25	25		19.60	19.62	19.01		
10	50	0		19.62	19.47	19.16		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -2.57 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.38	22.24	22.26	19.81	0.0957
5	1	12		22.33	22.34	22.33		
5	1	24		22.38	22.37	22.32		
5	12	0		21.46	21.44	21.49		
5	12	7		21.55	21.44	21.43		
5	12	13		21.48	21.55	21.55		
5	25	0		21.53	21.48	21.45		
5	1	0	16-QAM	21.48	21.43	21.45	18.94	0.0783
5	1	12		21.40	21.47	21.39		
5	1	24		21.51	21.47	21.48		
5	12	0		20.47	20.48	20.43		
5	12	7		20.62	20.46	20.47		
5	12	13		20.49	20.58	20.52		
5	25	0		20.55	20.44	20.50		
5	1	0	64-QAM	20.22	20.10	20.06	17.65	0.0582
5	1	12		20.13	20.17	20.07		
5	1	24		20.22	20.20	20.13		
5	12	0		19.54	19.45	19.51		
5	12	7		19.60	19.49	19.44		
5	12	13		19.52	19.53	19.53		
5	25	0		19.51	19.47	19.44		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.85	24.12	24.16	22.79	0.1901
20	1	49		23.82	24.10	24.14		
20	1	99		23.89	24.16	24.20		
20	50	0		22.92	23.21	23.25		
20	50	24		22.92	23.28	23.32		
20	50	50		23.00	23.27	23.31		
20	100	0		22.97	23.29	23.33		
20	1	0	16-QAM	23.17	23.47	23.51	22.11	0.1626
20	1	49		23.00	23.37	23.41		
20	1	99		23.15	23.48	23.52		
20	50	0		21.88	22.24	22.28		
20	50	24		22.07	22.34	22.38		
20	50	50		22.00	22.33	22.37		
20	100	0		22.00	22.34	22.38		
20	1	0	64-QAM	21.98	22.26	22.30	20.95	0.1245
20	1	49		21.89	22.22	22.26		
20	1	99		22.00	22.32	22.36		
20	50	0		20.90	21.26	21.30		
20	50	24		20.97	21.34	21.38		
20	50	50		20.99	21.32	21.36		
20	100	0		21.01	21.33	21.37		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.76	24.07	24.07	22.70	0.1862
15	1	37		23.73	24.03	24.08		
15	1	74		23.78	24.11	24.10		
15	36	0		22.87	23.19	23.19		
15	36	20		22.92	23.23	23.24		
15	36	39		23.00	23.18	23.22		
15	75	0		23.00	23.22	23.26		
15	1	0	16-QAM	23.18	23.44	23.46	22.06	0.1607
15	1	37		23.01	23.37	23.34		
15	1	74		23.16	23.39	23.47		
15	36	0		21.87	22.21	22.23		
15	36	20		22.07	22.29	22.37		
15	36	39		22.01	22.32	22.36		
15	75	0		22.04	22.31	22.34		
15	1	0	64-QAM	21.96	22.23	22.20	20.91	0.1233
15	1	37		21.89	22.14	22.16		
15	1	74		22.05	22.32	22.28		
15	36	0		20.97	21.16	21.21		
15	36	20		21.00	21.25	21.34		
15	36	39		20.97	21.32	21.36		
15	75	0		21.06	21.26	21.30		
Limit	EIRP < 2W			Result			Pass	



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LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.84	24.02	24.14	22.73	0.1875
10	1	25		23.82	24.09	24.09		
10	1	49		23.87	24.12	24.06		
10	25	0		22.82	23.18	23.22		
10	25	12		22.96	23.18	23.27		
10	25	25		22.97	23.24	23.27		
10	50	0		23.00	23.25	23.23		
10	1	0	16-QAM	23.20	23.43	23.56	22.15	0.1641
10	1	25		23.14	23.37	23.28		
10	1	49		23.14	23.39	23.42		
10	25	0		21.88	22.15	22.19		
10	25	12		21.99	22.34	22.31		
10	25	25		22.01	22.26	22.30		
10	50	0		22.00	22.30	22.36		
10	1	0	64-QAM	21.96	22.19	22.25	20.85	0.1216
10	1	25		21.90	22.20	22.21		
10	1	49		22.00	22.25	22.26		
10	25	0		20.91	21.19	21.31		
10	25	12		21.06	21.26	21.35		
10	25	25		21.09	21.32	21.38		
10	50	0		20.94	21.25	21.30		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = -1.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.85	24.02	24.06	22.70	0.1862
5	1	12		23.74	24.09	24.11		
5	1	24		23.85	24.11	24.05		
5	12	0		22.89	23.16	23.16		
5	12	7		22.93	23.19	23.28		
5	12	13		22.97	23.27	23.26		
5	25	0		22.98	23.27	23.25		
5	1	0	16-QAM	23.12	23.40	23.46	22.05	0.1603
5	1	12		23.03	23.29	23.27		
5	1	24		23.12	23.41	23.41		
5	12	0		21.88	22.21	22.19		
5	12	7		22.02	22.32	22.41		
5	12	13		21.99	22.28	22.33		
5	25	0		22.04	22.24	22.35		
5	1	0	64-QAM	21.93	22.25	22.28	20.92	0.1236
5	1	12		21.92	22.14	22.30		
5	1	24		21.99	22.27	22.33		
5	12	0		20.94	21.21	21.27		
5	12	7		21.04	21.27	21.35		
5	12	13		21.04	21.26	21.35		
5	25	0		21.02	21.32	21.33		
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.46	22.30	22.41	22.81	0.1910
20	1	49		22.27	22.17	22.39		
20	1	99		22.18	22.19	22.29		
20	50	0		21.51	21.39	21.48		
20	50	24		21.43	21.35	21.47		
20	50	50		21.35	21.29	21.44		
20	100	0		21.44	21.31	21.35		
20	1	0	16-QAM	21.81	21.71	21.72	22.16	0.1644
20	1	49		21.69	21.53	21.77		
20	1	99		21.57	21.54	21.62		
20	50	0		20.46	20.39	20.48		
20	50	24		20.44	20.36	20.48		
20	50	50		20.38	20.31	20.52		
20	100	0		20.41	20.33	20.46		
20	1	0	64-QAM	20.70	20.63	20.57	21.05	0.1274
20	1	49		20.47	20.43	20.60		
20	1	99		20.44	20.45	20.57		
20	50	0		19.51	19.42	19.51		
20	50	24		19.46	19.35	19.50		
20	50	50		19.40	19.33	19.53		
20	100	0		19.43	19.34	19.48		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.31	22.23	22.42	22.77	0.1892
15	1	37		22.26	22.14	22.36		
15	1	74		22.18	22.12	22.31		
15	36	0		21.40	21.30	21.44		
15	36	20		21.41	21.30	21.42		
15	36	39		21.34	21.22	21.43		
15	75	0		21.38	21.28	21.39		
15	1	0	16-QAM	21.62	21.57	21.79	22.14	0.1637
15	1	37		21.56	21.44	21.65		
15	1	74		21.51	21.39	21.64		
15	36	0		20.41	20.27	20.41		
15	36	20		20.39	20.30	20.42		
15	36	39		20.32	20.25	20.44		
15	75	0		20.37	20.28	20.43		
15	1	0	64-QAM	20.57	20.44	20.61	20.96	0.1247
15	1	37		20.54	20.45	20.59		
15	1	74		20.42	20.32	20.52		
15	36	0		19.43	19.33	19.45		
15	36	20		19.41	19.33	19.44		
15	36	39		19.37	19.27	19.48		
15	75	0		19.39	19.30	19.42		
Limit	EIRP < 1W			Result			Pass	



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LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.35	22.19	22.38	22.73	0.1875
10	1	25		22.24	22.11	22.31		
10	1	49		22.19	22.06	22.33		
10	25	0		21.42	21.29	21.43		
10	25	12		21.41	21.32	21.45		
10	25	25		21.40	21.25	21.47		
10	50	0		21.42	21.30	21.44		
10	1	0	16-QAM	21.77	21.58	21.79	22.14	0.1637
10	1	25		21.64	21.52	21.74		
10	1	49		21.57	21.52	21.68		
10	25	0		20.44	20.30	20.45		
10	25	12		20.43	20.32	20.44		
10	25	25		20.39	20.27	20.47		
10	50	0		20.40	20.27	20.43		
10	1	0	64-QAM	20.64	20.52	20.42	21.02	0.1265
10	1	25		20.63	20.48	20.67		
10	1	49		20.51	20.42	20.58		
10	25	0		19.47	19.35	19.47		
10	25	12		19.47	19.35	19.47		
10	25	25		19.37	19.31	19.51		
10	50	0		19.47	19.33	19.46		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.27	22.15	22.30	22.65	0.1841
5	1	12		22.20	22.05	22.21		
5	1	24		22.12	22.08	22.30		
5	12	0		21.39	21.20	21.36		
5	12	7		21.40	21.27	21.38		
5	12	13		21.31	21.21	21.37		
5	25	0		21.42	21.22	21.39		
5	1	0	16-QAM	21.69	21.49	21.79	22.14	0.1637
5	1	12		21.63	21.45	21.68		
5	1	24		21.50	21.43	21.66		
5	12	0		20.40	20.30	20.44		
5	12	7		20.36	20.23	20.34		
5	12	13		20.37	20.17	20.39		
5	25	0		20.33	20.19	20.40		
5	1	0	64-QAM	20.62	20.43	20.33	20.97	0.1250
5	1	12		20.58	20.47	20.57		
5	1	24		20.48	20.38	20.49		
5	12	0		19.42	19.30	19.45		
5	12	7		19.42	19.33	19.45		
5	12	13		19.37	19.29	19.41		
5	25	0		19.42	19.23	19.38		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.27	22.14	22.27	22.62	0.1828
3	1	8		22.13	22.01	22.20		
3	1	14		22.06	22.00	22.26		
3	8	0		21.37	21.17	21.33		
3	8	4		21.31	21.26	21.30		
3	8	7		21.30	21.17	21.37		
3	15	0		21.32	21.13	21.36		
3	1	0	16-QAM	21.66	21.41	21.69	22.04	0.1600
3	1	8		21.53	21.39	21.67		
3	1	14		21.42	21.38	21.64		
3	8	0		20.32	20.30	20.38		
3	8	4		20.30	20.20	20.30		
3	8	7		20.27	20.10	20.34		
3	15	0		20.23	20.14	20.38		
3	1	0	64-QAM	20.54	20.38	20.26	20.90	0.1230
3	1	8		20.50	20.46	20.55		
3	1	14		20.43	20.28	20.44		
3	8	0		19.32	19.29	19.39		
3	8	4		19.36	19.33	19.39		
3	8	7		19.32	19.27	19.35		
3	15	0		19.33	19.19	19.36		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.23	22.14	22.19	22.58	0.1811
1.4	1	3		22.13	22.01	22.15		
1.4	1	5		22.01	22.00	22.16		
1.4	3	0		22.19	22.11	22.18		
1.4	3	1		22.05	22.19	22.19		
1.4	3	3		22.17	22.12	22.20		
1.4	6	0		21.26	21.05	21.34		
1.4	1	0	16-QAM	21.65	21.39	21.63	22.04	0.1600
1.4	1	3		21.52	21.33	21.57		
1.4	1	5		21.33	21.33	21.57		
1.4	3	0		21.63	21.38	21.69		
1.4	3	1		21.50	21.37	21.59		
1.4	3	3		21.39	21.28	21.56		
1.4	6	0		20.17	20.10	20.36		
1.4	1	0	64-QAM	20.44	20.29	20.23	20.89	0.1227
1.4	1	3		20.42	20.39	20.54		
1.4	1	5		20.36	20.22	20.42		
1.4	3	0		20.44	20.35	20.25		
1.4	3	1		20.41	20.42	20.45		
1.4	3	3		20.41	20.23	20.44		
1.4	6	0		19.31	19.17	19.28		
Limit	EIRP < 1W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -4.58 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.53	22.31	22.26	15.80	0.0380
20	1	49		22.34	22.21	22.15		
20	1	99		22.16	22.17	22.06		
20	50	0		21.49	21.33	21.24		
20	50	24		21.45	21.34	21.23		
20	50	50		21.36	21.28	21.21		
20	100	0		21.42	21.35	21.23		
20	1	0	16-QAM	21.85	21.65	21.57	15.12	0.0325
20	1	49		21.67	21.58	21.48		
20	1	99		21.50	21.47	21.45		
20	50	0		20.49	20.31	20.27		
20	50	24		20.48	20.35	20.24		
20	50	50		20.36	20.28	20.24		
20	100	0		20.44	20.32	20.20		
20	1	0	64-QAM	20.68	20.59	20.40	13.95	0.0248
20	1	49		20.45	20.49	20.34		
20	1	99		20.32	20.31	20.30		
20	50	0		19.40	19.34	19.26		
20	50	24		19.36	19.35	19.24		
20	50	50		19.38	19.28	19.23		
20	100	0		19.18	19.34	19.24		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -4.58 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.44	22.23	22.20	15.71	0.0372
15	1	37		22.27	22.19	22.10		
15	1	74		22.06	22.13	22.05		
15	36	0		21.40	21.27	21.21		
15	36	20		21.43	21.32	21.18		
15	36	39		21.32	21.27	21.18		
15	75	0		21.36	21.31	21.23		
15	1	0	16-QAM	21.76	21.64	21.48	15.03	0.0318
15	1	37		21.63	21.56	21.38		
15	1	74		21.44	21.42	21.38		
15	36	0		20.43	20.28	20.21		
15	36	20		20.41	20.28	20.24		
15	36	39		20.30	20.21	20.22		
15	75	0		20.43	20.26	20.17		
15	1	0	64-QAM	20.63	20.55	20.32	13.90	0.0245
15	1	37		20.45	20.46	20.33		
15	1	74		20.31	20.23	20.24		
15	36	0		19.35	19.32	19.16		
15	36	20		19.30	19.26	19.15		
15	36	39		19.33	19.28	19.18		
15	75	0		19.18	19.27	19.22		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -4.58 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.43	22.33	22.13	15.70	0.0372
10	1	25		22.34	22.21	22.07		
10	1	49		22.30	22.17	22.04		
10	25	0		21.58	21.32	21.17		
10	25	12		21.54	21.40	21.31		
10	25	25		21.45	21.33	21.22		
10	50	0		21.54	21.39	21.18		
10	1	0	16-QAM	21.64	21.67	21.55	15.01	0.0317
10	1	25		21.74	21.63	21.48		
10	1	49		21.71	21.54	21.47		
10	25	0		20.59	20.32	20.15		
10	25	12		20.55	20.39	20.33		
10	25	25		20.46	20.32	20.18		
10	50	0		20.55	20.36	20.18		
10	1	0	64-QAM	20.56	20.53	20.35	13.83	0.0242
10	1	25		20.45	20.50	20.32		
10	1	49		20.16	20.45	20.34		
10	25	0		19.35	19.31	19.06		
10	25	12		19.27	19.18	19.11		
10	25	25		19.24	19.27	19.13		
10	50	0		19.09	19.26	19.12		
Limit	ERP < 3W			Result			Pass	



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LTE Band 71 Maximum Average Power [dBm] (GT - LC = -4.58 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.35	22.32	22.09	15.62	0.0365
5	1	12		22.27	22.18	22.00		
5	1	24		22.28	22.11	22.02		
5	12	0		21.56	21.32	21.15		
5	12	7		21.54	21.37	21.30		
5	12	13		21.37	21.30	21.12		
5	25	0		21.52	21.30	21.09		
5	1	0	16-QAM	21.63	21.60	21.46	14.98	0.0315
5	1	12		21.71	21.59	21.42		
5	1	24		21.68	21.48	21.43		
5	12	0		20.59	20.26	20.14		
5	12	7		20.47	20.39	20.27		
5	12	13		20.39	20.29	20.12		
5	25	0		20.49	20.26	20.10		
5	1	0	64-QAM	20.49	20.49	20.31	13.76	0.0238
5	1	12		20.44	20.42	20.23		
5	1	24		20.06	20.45	20.25		
5	12	0		19.22	19.26	19.10		
5	12	7		19.24	19.16	19.07		
5	12	13		19.15	19.21	19.13		
5	25	0		19.18	19.23	19.18		
Limit	ERP < 3W			Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -2.9 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	1	99	1	0	QPSK	23.20	23.15	23.05	20.30	0.1072
20+20	1	99	1	0	16-QAM	22.84	22.74	22.59	19.94	0.0986
20+20	1	99	1	0	64-QAM	20.96	20.84	20.74	18.06	0.0640
20+15	1	99	1	0	QPSK	23.26	23.28	23.22	20.38	0.1091
20+15	1	99	1	0	16-QAM	22.76	22.76	22.62	19.86	0.0968
20+15	1	99	1	0	64-QAM	20.55	20.47	20.22	17.65	0.0582
15+20	1	74	1	0	QPSK	23.31	23.21	23.11	20.41	0.1099
15+20	1	74	1	0	16-QAM	22.85	22.67	22.46	19.95	0.0989
15+20	1	74	1	0	64-QAM	21.28	20.35	20.12	18.38	0.0689
Limit	EIRP < 2W					Result			Pass	

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -2.9 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	1	99	1	0	QPSK	23.31	23.06	23.29	20.41	0.1099
20+10	1	99	1	0	16-QAM	22.73	22.57	22.62	19.83	0.0962
20+10	1	99	1	0	64-QAM	19.88	21.40	19.46	18.50	0.0708
10+20	1	74	1	0	QPSK	23.30	23.11	23.09	20.40	0.1096
10+20	1	74	1	0	16-QAM	22.85	22.61	22.56	19.95	0.0989
10+20	1	74	1	0	64-QAM	21.76	20.75	20.72	18.86	0.0769
15+15	1	74	1	0	QPSK	23.43	23.22	23.23	20.53	0.1130
15+15	1	74	1	0	16-QAM	22.91	22.74	22.52	20.01	0.1002
15+15	1	74	1	0	64-QAM	21.37	21.19	19.43	18.47	0.0703
Limit	EIRP < 2W					Result			Pass	

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -2.9 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	1	74	1	0	QPSK	23.34	23.22	23.17	20.44	0.1107
15+10	1	74	1	0	16-QAM	22.82	22.63	22.65	19.92	0.0982
15+10	1	74	1	0	64-QAM	21.14	21.15	19.06	18.25	0.0668
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -1.41 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	1	99	1	0	QPSK	23.33	23.10	23.11	21.92	0.1556
20+20	1	99	1	0	16-QAM	22.56	22.52	22.48	21.15	0.1303
20+20	1	99	1	0	64-QAM	21.51	21.44	21.28	20.10	0.1023
20+15	1	99	1	0	QPSK	23.25	23.30	23.13	21.89	0.1545
20+15	1	99	1	0	16-QAM	22.63	22.71	22.51	21.30	0.1349
20+15	1	99	1	0	64-QAM	21.68	21.66	21.42	20.27	0.1064
15+20	1	74	1	0	QPSK	23.25	23.29	20.45	21.90	0.1549
15+20	1	74	1	0	16-QAM	22.65	22.62	20.49	21.24	0.1330
15+20	1	74	1	0	64-QAM	21.64	21.59	18.41	20.23	0.1054
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -1.41 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	1	99	1	0	QPSK	23.22	23.21	23.26	21.85	0.1531
20+10	1	99	1	0	16-QAM	22.59	22.61	22.63	21.22	0.1324
20+10	1	99	1	0	64-QAM	21.61	21.66	21.69	20.28	0.1067
10+20	1	49	1	0	QPSK	23.35	23.30	23.41	22.00	0.1585
10+20	1	49	1	0	16-QAM	22.62	22.59	22.63	21.22	0.1324
10+20	1	49	1	0	64-QAM	21.66	21.65	21.61	20.25	0.1059
20+5	1	99	1	0	QPSK	23.35	23.26	23.04	21.94	0.1563
20+5	1	99	1	0	16-QAM	22.64	22.51	22.31	21.23	0.1327
20+5	1	99	1	0	64-QAM	21.57	21.43	21.23	20.16	0.1038
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -1.41 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	1	24	1	0	QPSK	23.31	23.23	23.31	21.90	0.1549
5+20	1	24	1	0	16-QAM	22.71	22.62	22.65	21.30	0.1349
5+20	1	24	1	0	64-QAM	21.56	21.49	21.52	20.15	0.1035
15+10	1	74	1	0	QPSK	23.25	23.22	23.36	21.95	0.1567
15+10	1	74	1	0	16-QAM	22.49	22.36	22.49	21.08	0.1282
15+10	1	74	1	0	64-QAM	21.62	21.59	21.63	20.22	0.1052
10+15	1	49	1	0	QPSK	23.31	23.22	23.29	21.90	0.1549
10+15	1	49	1	0	16-QAM	22.56	22.46	22.52	21.15	0.1303
10+15	1	49	1	0	64-QAM	21.67	21.52	21.66	20.26	0.1062
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -1.41 dB)										
15+15	1	74	1	0	QPSK	23.35	23.22	23.31	21.94	0.1563
15+15	1	74	1	0	16-QAM	22.57	22.51	22.55	21.16	0.1306
15+15	1	74	1	0	64-QAM	21.65	21.42	21.49	20.24	0.1057
Limit	EIRP < 2W					Result			Pass	



Appendix B. Test Results of Radiated Test

LTE Band 2

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	-58.21	-13	-45.21	-79.02	-67.84	2.77	12.40	H
	5552	-54.17	-13	-41.17	-79.1	-64.10	3.46	13.40	H
	7402	-50.26	-13	-37.26	-79.87	-57.47	3.98	11.19	H
									H
									H
									H
	3701	-57.33	-13	-44.33	-78.55	-66.96	2.77	12.40	V
	5552	-53.21	-13	-40.21	-78.21	-63.14	3.46	13.40	V
	7402	-49.84	-13	-36.84	-79.93	-57.05	3.98	11.19	V
									V
									V
									V
Middle	3751	-50.45	-13	-37.45	-71.48	-60.17	2.78	12.50	H
	5627	-27.87	-13	-14.87	-52.79	-37.80	3.48	13.41	H
	7502	-50.11	-13	-37.11	-79.68	-57.31	4.00	11.20	H
									H
									H
									H
	3751	-54.42	-13	-41.42	-75.85	-64.14	2.78	12.50	V
	5627	-26.92	-13	-13.92	-52.06	-36.85	3.48	13.41	V
	7502	-50.00	-13	-37.00	-79.93	-57.20	4.00	11.20	V
									V
									V
									V



Highest	3801	-54.07	-13	-41.07	-75.32	-63.68	2.79	12.40	H
	5702	-42.72	-13	-29.72	-68.09	-52.62	3.50	13.40	H
	7602	-50.61	-13	-37.61	-79.66	-57.98	4.04	11.40	H
									H
									H
									H
	3801	-57.19	-13	-44.19	-78.82	-66.80	2.79	12.40	V
	5702	-42.60	-13	-29.60	-68.2	-52.50	3.50	13.40	V
	7602	-49.70	-13	-36.70	-79.3	-57.07	4.04	11.40	V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 5MHz / 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)
Lowest	1327	-63.70	-13	-50.70	-74.83	-68.51	1.64	6.45	H
	1990	-63.58	-13	-50.58	-77.16	-71.46	2.02	9.90	H
	2653	-60.85	-13	-47.85	-77.6	-69.32	2.33	10.80	H
									H
									H
									H
	1327	-63.88	-13	-50.88	-74.99	-68.69	1.64	6.45	V
	1990	-62.68	-13	-49.68	-76.52	-70.56	2.02	9.90	V
	2653	-60.26	-13	-47.26	-77.57	-68.73	2.33	10.80	V
									V
									V
									V
Middle	1347	-63.55	-13	-50.55	-74.75	-68.39	1.65	6.49	H
	2020	-63.13	-13	-50.13	-76.95	-70.99	2.04	9.90	H
	2693	-60.59	-13	-47.59	-77.59	-69.05	2.34	10.80	H
									H
									H
									H
	1347	-63.87	-13	-50.87	-75.11	-68.71	1.65	6.49	V
	2020	-62.84	-13	-49.84	-76.96	-70.70	2.04	9.90	V
	2693	-59.99	-13	-46.99	-77.47	-68.45	2.34	10.80	V
									V
									V
									V



Highest	1387	-64.22	-13	-51.22	-75.57	-69.34	1.68	6.80	H
	2080	-62.99	-13	-49.99	-77.45	-70.58	2.07	9.66	H
	2773	-60.54	-13	-47.54	-78.04	-69.25	2.38	11.09	H
									H
									H
									H
	1387	-64.11	-13	-51.11	-75.61	-69.23	1.68	6.80	V
	2080	-62.61	-13	-49.61	-77.5	-70.20	2.07	9.66	V
	2773	-60.13	-13	-47.13	-77.94	-68.84	2.38	11.09	V
									V
									V
									V

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

**LTE Band 4**

LTE Band 4 / 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	3420	-59.28	-13	-46.28	-78.76	-70.17	1.23	12.12	H
	5131	-56.00	-13	-43.00	-80.4	-66.89	1.97	12.86	H
	6841	-51.54	-13	-38.54	-79.74	-60.49	2.34	11.29	H
									H
									H
									H
	3420	-59.10	-13	-46.10	-78.95	-69.99	1.23	12.12	V
	5131	-55.48	-13	-42.48	-80.44	-66.37	1.97	12.86	V
	6841	-51.15	-13	-38.15	-79.72	-60.10	2.34	11.29	V
									V
									V
									V
Middle	3462	-59.32	-13	-46.32	-79.13	-69.17	2.70	12.55	H
	5194	-55.56	-13	-42.56	-80.16	-64.98	3.34	12.76	H
	6925	-50.35	-13	-37.35	-78.86	-58.46	3.89	12.00	H
									H
									H
									H
	3462	-58.87	-13	-45.87	-79.05	-68.72	2.70	12.55	V
	5194	-55.30	-13	-42.30	-80.4	-64.72	3.34	12.76	V
	6925	-50.57	-13	-37.57	-79.19	-58.68	3.89	12.00	V
									V
									V
									V



Highest	3504	-58.79	-13	-45.79	-78.91	-69.84	1.25	12.30	H
	5257	-55.43	-13	-42.43	-80	-66.46	1.98	13.01	H
	7009	-50.37	-13	-37.37	-79.15	-59.79	2.37	11.79	H
									H
									H
									H
	3504	-58.40	-13	-45.40	-78.89	-69.45	1.25	12.30	V
	5257	-55.02	-13	-42.02	-79.99	-66.05	1.98	13.01	V
	7009	-50.16	-13	-37.16	-78.83	-59.58	2.37	11.79	V
									V
									V
									V

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



LTE Band 5

LTE Band 5 / 5MHz / 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)
Lowest	1648	-64.38	-13	-51.38	-76.44	-69.68	1.83	9.28	H
	2473	-61.65	-13	-48.65	-78.26	-67.89	2.25	10.64	H
	3297	-60.32	-13	-47.32	-79.04	-67.84	2.62	12.29	H
									H
									H
									H
	1648	-63.73	-13	-50.73	-73.25	-69.03	1.83	9.28	V
	2473	-61.36	-13	-48.36	-78.2	-67.60	2.25	10.64	V
	3297	-60.07	-13	-47.07	-79.19	-67.59	2.62	12.29	V
									V
									V
									V
Middle	1668	-63.88	-13	-50.88	-76.09	-69.29	1.84	9.41	H
	2504	-61.37	-13	-48.37	-78.16	-67.76	2.26	10.80	H
	3337	-60.58	-13	-47.58	-79.19	-68.38	2.64	12.60	H
									H
									H
									H
	1668	-63.69	-13	-50.69	-76.37	-69.10	1.84	9.41	V
	2504	-61.31	-13	-48.31	-78.17	-67.70	2.26	10.80	V
	3337	-60.38	-13	-47.38	-79.38	-68.18	2.64	12.60	V
									V
									V
									V



Highest	1688	-64.18	-13	-51.18	-76.54	-69.70	1.86	9.53	H
	2533	-61.30	-13	-48.30	-77.99	-67.68	2.27	10.80	H
	3377	-61.18	-13	-48.18	-79.67	-69.02	2.66	12.65	H
									H
									H
									H
									H
	1688	-63.87	-13	-50.87	-76.71	-69.39	1.86	9.53	V
	2533	-61.30	-13	-48.30	-78.24	-67.68	2.27	10.80	V
	3377	-60.63	-13	-47.63	-79.5	-68.47	2.66	12.65	V
									V
									V
									V
									V

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

**LTE Band 12**

LTE Band 12 / 5MHz / 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)
Lowest	1400	-61.48	-13.00	-48.48	-72.87	-64.54	1.69	6.90	H
	2096	-29.48	-13.00	-16.48	-44.11	-34.79	2.07	9.53	H
	2800	-60.19	-13.00	-47.19	-77.85	-66.85	2.39	11.20	H
	3496	-43.49	-13.00	-30.49	-62.86	-51.04	2.72	12.42	H
	4200	-58.26	-13.00	-45.26	-80.00	-65.87	2.94	12.70	H
	4896	-54.09	-13.00	-41.09	-77.79	-61.40	3.23	12.69	H
									H
	1400	-64.13	-13.00	-51.13	-75.71	-67.19	1.69	6.90	V
	2096	-24.04	-13.00	-11.04	-39.13	-29.35	2.07	9.53	V
	2800	-60.00	-13.00	-47.00	-77.92	-66.66	2.39	11.20	V
	3496	-42.32	-13.00	-29.32	-62.06	-49.87	2.72	12.42	V
	4200	-57.30	-13.00	-44.30	-79.63	-64.91	2.94	12.70	V
	4896	-51.84	-13.00	-38.84	-76.14	-59.15	3.23	12.69	V
									V
Middle	1408	-58.22	-13.00	-45.22	-69.71	-61.34	1.69	6.96	H
	2112	-31.69	-13.00	-18.69	-46.50	-36.84	2.08	9.38	H
	2821	-60.18	-13.00	-47.18	-77.85	-66.83	2.40	11.20	H
	3528	-42.99	-13.00	-29.99	-62.53	-50.40	2.73	12.29	H
	4232	-58.07	-13.00	-45.07	-79.92	-65.66	2.96	12.70	H
	4936	-55.36	-13.00	-42.36	-79.09	-62.66	3.25	12.70	H
									H
	1408	-64.01	-13.00	-51.01	-75.67	-67.13	1.69	6.96	V
	2112	-25.52	-13.00	-12.52	-40.83	-30.67	2.08	9.38	V
	2821	-60.01	-13.00	-47.01	-77.99	-66.66	2.40	11.20	V
	3528	-44.99	-13.00	-31.99	-64.92	-52.40	2.73	12.29	V
	4232	-57.35	-13.00	-44.35	-79.79	-64.94	2.96	12.70	V
	4936	-52.93	-13.00	-39.93	-77.29	-60.23	3.25	12.70	V
									V



Highest	1424	-57.86	-13.00	-44.86	-69.53	-61.10	1.70	7.09	H
	2136	-30.90	-13.00	-17.90	-45.97	-35.80	2.09	9.14	H
	2848	-60.46	-13.00	-47.46	-78.14	-67.10	2.41	11.20	H
	3560	-42.86	-13.00	-29.86	-62.56	-50.18	2.73	12.20	H
	4976	-54.84	-13.00	-41.84	-78.60	-62.08	3.26	12.65	H
									H
	1424	-63.64	-13.00	-50.64	-75.39	-66.88	1.70	7.09	V
	2136	-26.51	-13.00	-13.51	-42.13	-31.41	2.09	9.14	V
	2848	-60.01	-13.00	-47.01	-78.06	-66.65	2.41	11.20	V
	3560	-43.49	-13.00	-30.49	-63.60	-50.81	2.73	12.20	V
	4976	-54.18	-13.00	-41.18	-78.60	-61.42	3.26	12.65	V
									V

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

**LTE Band 13**

LTE Band 13 / 5MHz / 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)
Lowest	1554	-64.35	-13	-51.35	-76.45	-69.04	1.78	8.62	H
	2332	-62.07	-13	-49.07	-78.03	-67.43	2.18	9.69	H
	3112	-59.73	-13	-46.73	-78.15	-66.37	2.53	11.32	H
									H
									H
									H
	1554	-64.18	-13.00	-51.18	-76.38	-68.87	1.78	8.62	V
	2332	-61.01	-13	-48.01	-77.68	-66.37	2.18	9.69	V
	3112	-59.15	-13	-46.15	-78.10	-65.79	2.53	11.32	V
									V
									V
									V
Middle	1560	-64.52	-42.15	-22.37	-76.58	-69.25	1.78	8.66	H
	2336	-61.65	-13	-48.65	-77.62	-67.03	2.18	9.72	H
	3120	-59.76	-13	-46.76	-78.23	-66.41	2.54	11.34	H
									H
									H
									H
	1560	-64.23	-42.15	-22.08	-76.42	-68.96	1.78	8.66	V
	2336	-61.22	-13	-48.22	-77.90	-66.60	2.18	9.72	V
	3120	-58.96	-13	-45.96	-77.96	-65.61	2.54	11.34	V
									V
									V
									V



Highest	1568	-64.60	-42.15	-22.45	-76.62	-69.37	1.79	8.71	H
	2344	-61.79	-13	-48.79	-77.77	-67.22	2.19	9.76	H
	3136	-59.79	-13	-46.79	-78.31	-66.47	2.55	11.37	H
									H
									H
									H
									H
	1568	-64.19	-42.15	-22.04	-76.38	-68.96	1.79	8.71	V
	2344	-61.06	-13	-48.06	-77.75	-66.49	2.19	9.76	V
	3136	-59.26	-13	-46.26	-78.31	-65.94	2.55	11.37	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 / 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	4993	-56.76	-25	-31.76	-80.75	-66.11	3.27	12.61	H
	7488	-48.15	-25	-23.15	-77.74	-55.33	4.00	11.18	H
	9990	-47.92	-25	-22.92	-80.53	-54.43	4.67	11.18	H
									H
									H
									H
	4993	-55.98	-25	-30.98	-80.64	-65.33	3.27	12.61	V
	7488	-46.80	-25	-21.80	-76.76	-53.98	4.00	11.18	V
	9990	-47.89	-25	-22.89	-80.25	-54.40	4.67	11.18	V
									V
									V
									V
Middle	5178	-56.58	-25	-31.58	-81.12	-65.91	3.33	12.67	H
	7765	-49.46	-25	-24.46	-78.61	-57.17	4.10	11.81	H
	10350	-46.15	-25	-21.15	-79.64	-52.23	4.78	10.85	H
									H
									H
									H
	5178	-55.62	-25	-30.62	-80.67	-64.95	3.33	12.67	V
	7765	-49.40	-25	-24.40	-79.05	-57.11	4.10	11.81	V
	10350	-47.41	-25	-22.41	-80.04	-53.49	4.78	10.85	V
									V
									V
									V



Highest	5364	-55.89	-25	-30.89	-80.37	-65.90	3.40	13.42	H
	8041	-49.17	-25	-24.17	-78.9	-55.94	4.19	10.96	H
	10719	-46.33	-25	-21.33	-80	-52.52	4.87	11.06	H
									H
									H
									H
	5364	-54.97	-25	-29.97	-79.67	-64.98	3.40	13.42	V
	8041	-49.19	-25	-24.19	-79.16	-55.96	4.19	10.96	V
	10719	-47.49	-25	-22.49	-80.39	-53.68	4.87	11.06	V
									V
									V
									V

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