



FCC RADIO TEST REPORT

FCC ID : ZMOL860GL16LL
Equipment : LTE Module
Brand Name : Fibocom Wireless Inc.
Model Name : L860-GL-16
Applicant : Fibocom Wireless Inc.
1101, Tower A, Building 6, Shenzhen
International, Innovation Valley, Dashi 1st Rd,
Nanshan, ShenZhen, China
Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.
No. 3188-1, Yungu Road (Hefei Export
Processing Zone), Hefei Economics &
Technology Development Area, Anhui, CHINA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Sep. 07, 2021 and testing was started from Sep. 17, 2021 and completed on Sep. 28, 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



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History of this test report

Report No.	Version	Description	Issued Date
FG190338B	01	Initial issue of report	Oct. 25, 2021
FG190338B	02	Add test data	Dec. 15, 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	Under limit 19.69 dB at 7578.000 MHz
	\$2.1051 \$27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Note:

1. The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
2. Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP/EIRP of this host product.

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: Sheng Kuo**Report Producer: Ruby Zou**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Fibocom Wireless Inc.
Model Name	L860-GL-16
FCC ID	ZMOL860GL16LL
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
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-16 tested inside of Lenovo Notebook Computer.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00129B, and the host information was recorded in the following table.

Host Information	
Host 1	Host with Amphenol Antenna
Host 2	Host with Novocomms/JYT Antenna

Antenna Information				
Main Antenna	Manufacturer	Amphenol	Peak gain(dBi)	LTE Band 2 : -0.22 LTE Band 4 : 1.95 LTE Band 5 : -0.65 LTE Band 7 : 1.45 LTE Band 12 : -2.03 LTE Band 13 : -0.43 LTE Band 17 : -2.26 LTE Band 25 : -0.06 LTE Band 26 : -0.12 LTE Band 38 : 1.80 LTE Band 41 : 1.87 LTE Band 66 : 1.55 LTE Band 71 : -1.86
	Part number	TKC116-16-000-C	Type	PIFA
	Manufacturer	Novocomms/JYT	Peak gain(dBi)	LTE Band 2 : -1.42 LTE Band 4 : 0.05 LTE Band 5 : 0.37 LTE Band 7 : 1.88 LTE Band 12 : -0.33 LTE Band 13 : 0.96 LTE Band 17 : -0.08 LTE Band 25 : -1.42 LTE Band 26 : 0.67 LTE Band 38 : 1.84 LTE Band 41 : 1.83 LTE Band 66 : 0.05 LTE Band 71 : -0.39
	Part number	JYAAE0150HR	Type	PIFA

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

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
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: 1850.7MHz ~ 1914.3 MHz LTE Band 26: 824.7MHz ~ 848.3 MHz LTE Band 38: 2572.5MHz ~ 2617.5MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5MHz ~ 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: 1930.7MHz ~ 1994.3 MHz LTE Band 26: 869.7MHz ~ 893.3MHz LTE Band 38: 2572.5MHz ~ 2617.5MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5 MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 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 LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz

Product Specification subjective to this standard	
Maximum Output Power to Antenna	LTE Band 2 : 23.32 dBm LTE Band 4 : 22.98 dBm LTE Band 5 : 22.92 dBm LTE Band 5B : 23.06 dBm LTE Band 7 : 23.26 dBm LTE Band 7C : 23.95 dBm LTE Band 12 : 22.86 dBm LTE Band 13 : 22.73 dBm LTE Band 17 : 22.85 dBm LTE Band 25 : 23.32 dBm LTE Band 26 : 22.93 dBm LTE Band 38 : 23.46 dBm LTE Band 38C : 23.57 dBm LTE Band 41 : 25.35 dBm for HPUE LTE Band 41C : 23.63 dBm LTE Band 66 : 22.99 dBm LTE Band 66B : 22.98 dBm LTE Band 66C : 22.65 dBm LTE Band 71 : 23.32 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 333, Taiwan	
Test Site No.	Sporton Site No.	
	TH03-HY	03CH07-HY
Test Engineer	Benjamin Lin	Jesse Wang and Stan Hsieh
Temperature	23.5~25°C	22.6~25.8°C
Relative Humidity	49.4~52%	48.9~53.6%

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

FCC Designation No.: TW1190



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.

For radiated, 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 Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find (**<Sample 1>**: Notebook Type with accessory for LTE Band 25, 41_HPUE, 41C, 66, 66B, 66C; **<Sample 2>**: Notebook Type with accessory for LTE Band 5B, 7, 7C, 12, 13, 26, 71)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
	4	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v		v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v		v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v		v	v	v	v
	17	-	-	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
	26	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
	41	-	-	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
	71	-	-	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	-	-	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	Covered by Band 25												v	v	v
	4	Covered by Band 66												v	v	v
	5	Covered by Band 26												v	v	v
	7	-	-				v	v			v			v	v	v
	12				v	-	-	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	17	Covered by Band 12												v	v	v
	25						v	v			v			v	v	v
	26					v	-	v			v			v	v	v
	38	Covered by Band 41												v	v	v
	41	-	-				v	v			v			v	v	v
	66						v	v			v			v	v	v
	71	-	-				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. 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. Wider operating range bandwidth covers narrower one when the power is higher or the same.															

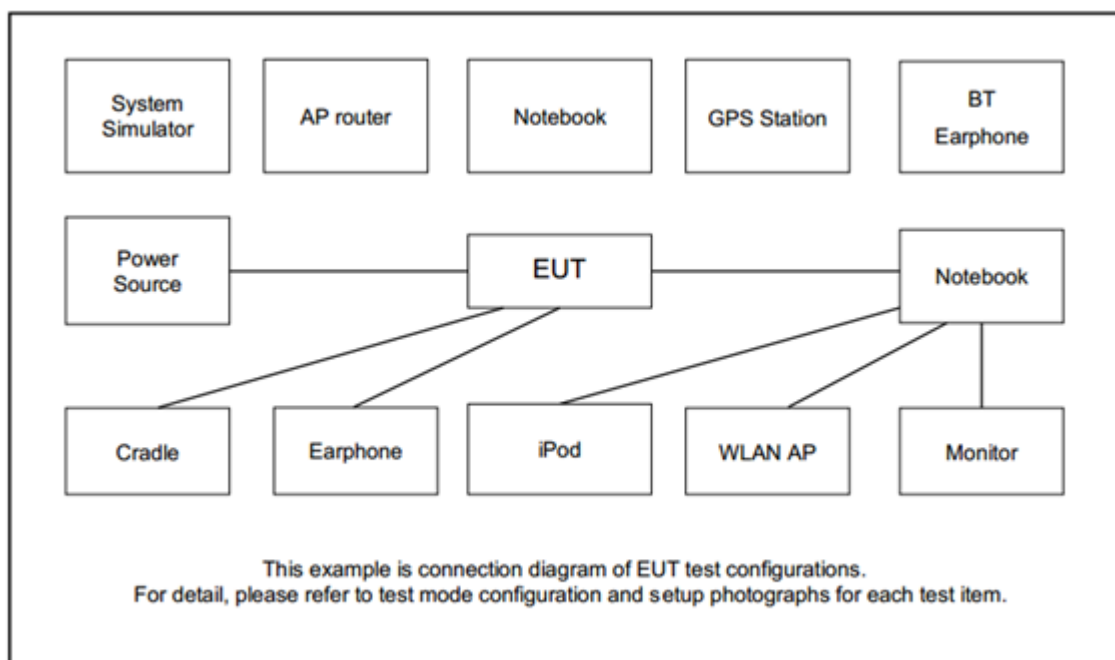


Test Items	Band	Bandwidth (MHz)					Modulation			RB #			Test Channel		
		3+5	5+3	5+10	10+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	5B_CA	-	-			v	v	v	v	v		v	v	v	v
E.R.P.	5B_CA	-	-			v	v	v	v	Max. Power					
Radiated Spurious Emission	5B_CA	-	-			v	v			v			v	v	v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 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.														

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	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v	v	v
	38C_CA	v	-	-	-	-	-	-		-	-	v	v	v	v		v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	66C_CA	v										v	v	v	v		v	v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	Max. Power					
	38C_CA	v	-	-	-	-	-	-		-	-	v	v	v						
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v						
	66C_CA	v										v	v	v						
Radiated Spurious Emission	7C_CA	v					-	-			-	v			v			v	v	v
	38C_CA	Covered by Band 41C													v			v	v	v
	41C_CA	v										v			v			v	v	v
	66C_CA	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. 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. Wider operating range bandwidth covers narrower one when the power is higher or the same.																			

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		5+5	5+10	10+5	5+15	15+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	66B_CA					v		v	v	v	v		v	v	v	v
E.I.R.P.	66B_CA					v		v	v	v	Max. Power					
Radiated Spurious Emission	66B_CA					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. 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	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	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

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 5B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829.0	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844.0



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 38 Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

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

LTE Band 66B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	133391	132642
		Frequency	1726.8	1761.9	1777.0

LTE Band 66C Channel and Frequency List_CA					
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720.0	1745.1	1750.2
	SCC	Channel	132270	133421	132572
		Frequency	1739.8	1764.9	1770.0

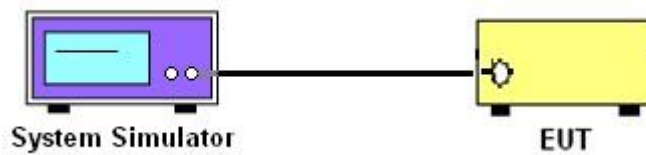
3 Conducted Test Items

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.

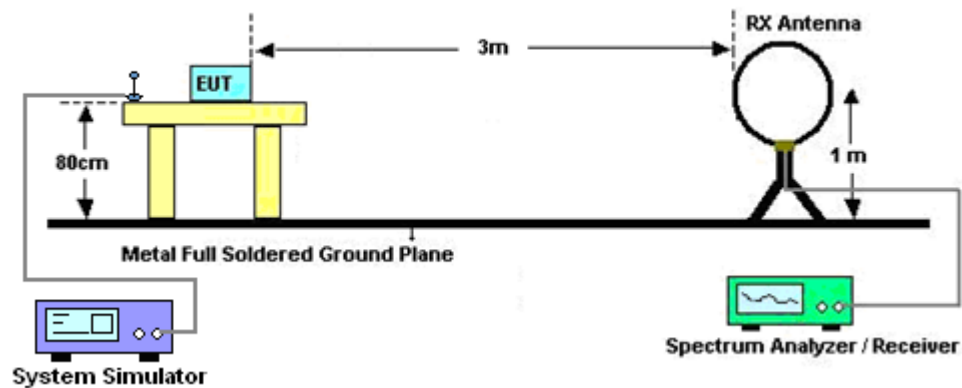
4 Radiated Test Items

4.1 Measuring Instruments

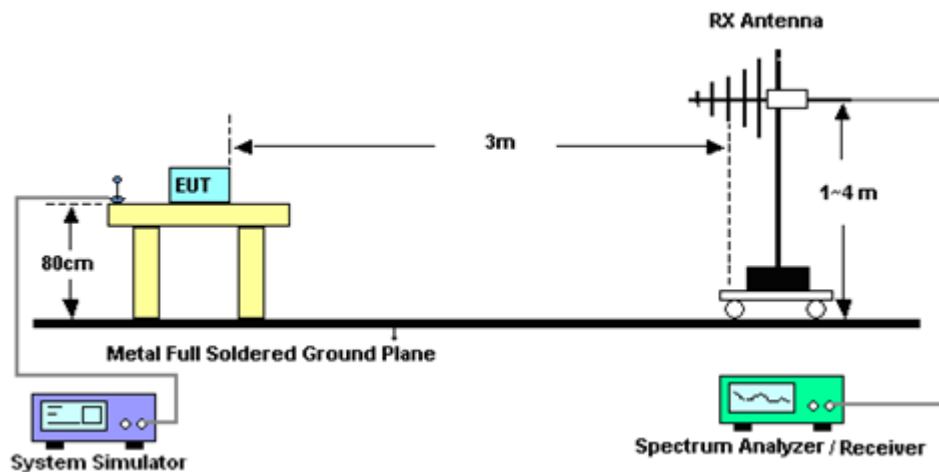
See list of measuring instruments of this test report.

4.1.1 Test Setup

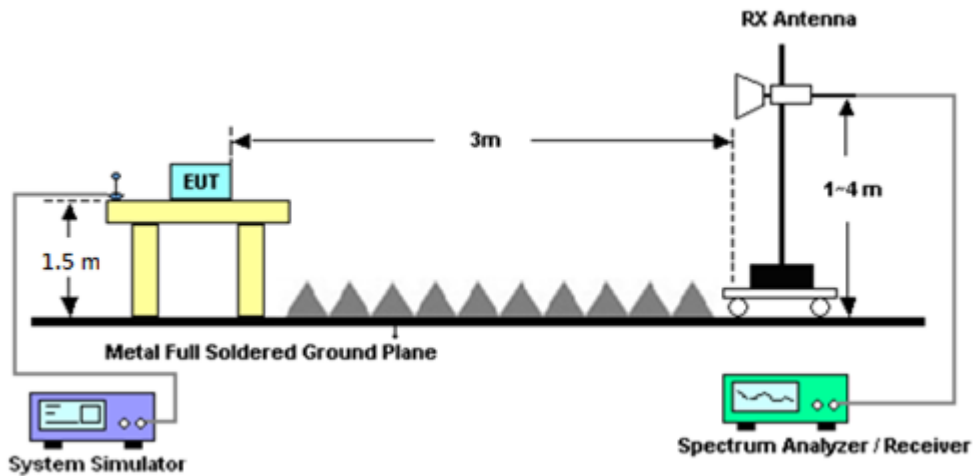
For radiated test below 30MHz



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

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 28, 2021	Sep. 17, 2021~ Sep. 28, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2020	Sep. 17, 2021~ Sep. 28, 2021	Nov. 30, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 22, 2021	Sep. 17, 2021~ Sep. 28, 2021	Apr. 21, 2022	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 18, 2021	Sep. 17, 2021~ Sep. 28, 2021	May 17, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Sep. 17, 2021~ Sep. 28, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 23, 2021	Sep. 17, 2021~ Sep. 28, 2021	Jul. 22, 2022	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2021	Sep. 17, 2021~ Sep. 28, 2021	Jul. 21, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682-4	30MHz to 18GHz	Feb. 24, 2021	Sep. 17, 2021~ Sep. 28, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971-4	9kHz to 18GHz	Feb. 24, 2021	Sep. 17, 2021~ Sep. 28, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655-4	9kHz to 18GHz	Feb. 24, 2021	Sep. 17, 2021~ Sep. 28, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 24, 2021	Sep. 17, 2021~ Sep. 28, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Sep. 17, 2021~ Sep. 28, 2021	Sep. 16, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 03, 2021	Sep. 17, 2021~ Sep. 28, 2021	Apr. 02, 2022	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	Apr. 28, 2021	Sep. 17, 2021~ Sep. 28, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Sep. 17, 2021~ Sep. 28, 2021	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	Apr. 28, 2021	Sep. 17, 2021~ Sep. 28, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Sep. 17, 2021~ Sep. 28, 2021	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Sep. 17, 2021~ Sep. 28, 2021	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 09, 2021	Sep. 17, 2021~ Sep. 28, 2021	Mar. 08, 2022	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Jan. 26, 2021	Sep. 17, 2021~ Sep. 28, 2021	Jan. 25, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Dec. 02, 2020	Sep. 17, 2021~ Sep. 28, 2021	Dec. 01, 2021	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 04, 2020	Sep. 17, 2021~ Sep. 28, 2021	Dec. 03, 2021	Radiation (03CH07-HY)
Base Station (Measure)	Anritsu	MT8821C	6262025341	N/A	Oct. 06, 2020	Sep. 17, 2021	Oct. 05, 2021	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% ($U = 2Uc(y)$)	3.16 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.71 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.16 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 = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.23	22.65	23.31	23.09	0.2037
20	1	99		22.65	21.86	23.26		
20	100	0		21.85	21.22	21.65		
20	1	0	16-QAM	22.66	23.32	22.52	23.1	0.2042
20	1	0	64-QAM	21.33	20.89	21.66	21.44	0.1393
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.05	22.75	23.15	22.93	0.1963
15	1	0	16-QAM	22.65	21.65	22.44	22.43	0.1750
15	1	0	64-QAM	21.36	21.23	21.52	21.3	0.1349
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.79	22.86	22.58	22.64	0.1837
10	1	0	16-QAM	22.06	22.18	21.89	21.96	0.1570
10	1	0	64-QAM	21.32	20.86	20.73	21.1	0.1288
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.11	23.02	22.95	22.89	0.1945
5	1	0	16-QAM	22.12	22.23	22.25	22.03	0.1596
5	1	0	64-QAM	21.52	21.25	21.36	21.3	0.1349
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.96	23.06	23.09	22.87	0.1936
3	1	0	16-QAM	22.03	22.32	22.16	22.10	0.1622
3	1	0	64-QAM	21.25	21.56	21.36	21.34	0.1361
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.05	23.16	23.25	23.03	0.2009
1.4	1	0	16-QAM	22.32	22.36	22.44	22.22	0.1667
1.4	1	0	64-QAM	22.13	21.23	21.25	21.91	0.1552
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.77	22.85	23.32	23.26	0.2118
20	1	99		22.82	23.06	22.63		
20	100	0		21.87	22.05	22.13		
20	1	0	16-QAM	22.01	21.87	22.63	22.57	0.1807
20	1	0	64-QAM	21.32	21.23	21.37	21.31	0.1352
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.63	22.73	22.85	22.79	0.1901
15	1	0	16-QAM	21.68	22.25	21.87	22.19	0.1656
15	1	0	64-QAM	20.96	21.21	21.12	21.15	0.1303
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.72	22.68	22.72	22.66	0.1845
10	1	0	16-QAM	21.86	21.82	21.63	21.80	0.1514
10	1	0	64-QAM	20.85	21.03	20.85	20.97	0.1250
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.63	22.65	23.13	23.07	0.2028
5	1	0	16-QAM	22.12	21.85	22.62	22.56	0.1803
5	1	0	64-QAM	20.87	20.69	21.36	21.30	0.1349
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.63	22.56	22.93	22.87	0.1936
3	1	0	16-QAM	21.85	21.86	21.93	21.87	0.1538
3	1	0	64-QAM	20.32	20.78	21.32	21.26	0.1337
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.63	22.63	22.66	22.60	0.1820
1.4	1	0	16-QAM	21.56	21.68	21.92	21.86	0.1535
1.4	1	0	64-QAM	20.72	20.86	20.68	20.80	0.1202
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.98	22.78	22.89	24.93	0.3112
20	1	99		22.63	22.86	22.85		
20	100	0		21.77	21.79	21.96		
20	1	0	16-QAM	22.56	22.26	22.56	24.51	0.2825
20	1	0	64-QAM	21.65	20.80	21.25	23.60	0.2291
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.86	22.59	22.79	24.81	0.3027
15	1	0	16-QAM	22.38	22.21	21.58	24.33	0.2710
15	1	0	64-QAM	21.36	20.65	20.72	23.31	0.2143
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.78	22.60	22.89	24.84	0.3048
10	1	0	16-QAM	21.85	21.65	21.98	23.93	0.2472
10	1	0	64-QAM	21.18	20.85	21.36	23.31	0.2143
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.96	22.67	22.96	24.91	0.3097
5	1	0	16-QAM	22.16	21.69	22.22	24.17	0.2612
5	1	0	64-QAM	21.33	21.21	21.16	23.28	0.2128
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.82	22.44	22.77	24.77	0.2999
3	1	0	16-QAM	21.63	21.63	21.65	23.60	0.2291
3	1	0	64-QAM	20.86	20.75	21.18	23.13	0.2056
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.63	22.68	22.78	24.73	0.2972
1.4	1	0	16-QAM	21.65	21.75	22.13	24.08	0.2559
1.4	1	0	64-QAM	21.23	20.63	21.36	23.31	0.2143
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.86	22.92	22.83	21.14	0.1300
10	1	49		22.75	22.73	22.63		
10	50	0		21.78	21.82	21.83		
10	1	0	16-QAM	21.85	21.89	21.86	20.11	0.1026
10	1	0	64-QAM	21.32	21.26	21.66	19.88	0.0973
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.78	22.76	22.77	21	0.1259
5	1	0	16-QAM	21.85	21.88	21.85	20.1	0.1023
5	1	0	64-QAM	21.25	21.56	21.36	19.78	0.0951
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.75	22.78	22.91	21.13	0.1297
3	1	0	16-QAM	21.86	21.66	22.22	20.44	0.1107
3	1	0	64-QAM	21.65	21.36	21.63	19.87	0.0971
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.78	22.86	22.86	21.08	0.1282
1.4	1	0	16-QAM	21.85	21.36	21.63	20.07	0.1016
1.4	1	0	64-QAM	20.96	21.26	21.35	19.57	0.0906
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.12	23.26	22.77	25.14	0.3266
20	1	99		23.03	22.86	23.26		
20	100	0		22.12	22.44	22.13		
20	1	0	16-QAM	22.56	22.76	21.87	24.64	0.2911
20	1	0	64-QAM	21.22	21.59	20.86	23.47	0.2223
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.13	23.22	22.89	25.10	0.3236
15	1	0	16-QAM	22.56	22.58	22.12	24.46	0.2793
15	1	0	64-QAM	21.58	21.36	21.23	23.46	0.2218
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.23	23.23	23.13	25.11	0.3243
10	1	0	16-QAM	22.58	22.52	22.52	24.46	0.2793
10	1	0	64-QAM	21.21	21.62	21.52	23.50	0.2239
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.06	23.23	23.12	25.11	0.3243
5	1	0	16-QAM	22.55	22.44	22.56	24.44	0.2780
5	1	0	64-QAM	21.85	21.56	21.52	23.73	0.2360
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.58	22.86	22.72	20.38	0.1091
10	1	49		22.62	22.56	22.63		
10	50	0		21.72	21.58	21.68		
10	1	0	16-QAM	21.65	22.21	21.85	19.73	0.0940
10	1	0	64-QAM	20.75	21.97	20.65	19.49	0.0889
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.63	22.69	22.63	20.21	0.1050
5	1	0	16-QAM	21.86	21.86	21.75	19.38	0.0867
5	1	0	64-QAM	20.96	20.96	21.13	18.65	0.0733
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.63	22.63	22.66	20.18	0.1042
3	1	0	16-QAM	21.86	21.85	21.86	19.38	0.0867
3	1	0	64-QAM	20.75	20.96	20.96	18.48	0.0705
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.56	22.68	22.69	20.21	0.1050
1.4	1	0	16-QAM	21.87	21.86	22.20	19.72	0.0938
1.4	1	0	64-QAM	21.86	20.96	20.98	19.38	0.0867
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	22.73	-	21.54	0.1426
10	1	49			22.56			
10	50	0			21.65			
10	1	0	16-QAM	-	21.86	-	20.67	0.1167
10	1	0	64-QAM		20.97		19.78	0.0951
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.96 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.52	22.65	22.72	21.53	0.1422
5	1	0	16-QAM	21.52	21.85	21.36	20.66	0.1164
5	1	0	64-QAM	20.96	20.96	20.56	19.77	0.0948
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.85	22.63	22.75	20.62	0.1153
10	1	49		22.72	22.69	22.32		
10	50	0		21.62	21.65	21.82		
10	1	0	16-QAM	21.87	21.36	21.65	19.64	0.0920
10	1	0	64-QAM	21.32	20.85	21.12	19.09	0.0811
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.82	22.72	22.63	20.59	0.1146
5	1	0	16-QAM	21.86	21.69	21.71	19.63	0.0918
5	1	0	64-QAM	20.86	20.78	20.65	18.63	0.0729
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.63	22.66	22.93	21.45	0.1396
15	1	74		22.76	22.56	22.63		
15	75	0		21.86	21.78	21.68		
15	1	0	16-QAM	20.85	21.72	21.52	20.24	0.1057
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.75	22.76	22.73	21.28	0.1343
10	1	0	16-QAM	21.36	21.32	21.56	20.08	0.1019
10	1	0	64-QAM	20.63	20.53	20.25	19.15	0.0822
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.63	22.76	22.68	21.28	0.1343
5	1	0	16-QAM	21.71	21.35	21.52	20.23	0.1054
5	1	0	64-QAM	20.68	20.35	20.36	19.2	0.0832
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.66	22.77	22.76	21.29	0.1346
3	1	0	16-QAM	21.32	21.32	21.36	19.88	0.0973
3	1	0	64-QAM	20.85	20.25	20.33	19.37	0.0865
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.69	22.76	22.86	21.38	0.1374
1.4	1	0	16-QAM	21.32	21.32	21.63	20.15	0.1035
1.4	1	0	64-QAM	20.23	20.32	20.65	19.17	0.0826
Limit	ERP < 7W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.44	23.46	23.26	25.30	0.3388
20	1	99		23.39	23.21	23.13		
20	100	0		23.35	22.25	22.15		
20	1	0	16-QAM	22.32	22.86	22.36	24.70	0.2951
20	1	0	64-QAM	21.36	21.58	21.52	23.42	0.2198
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.44	23.36	23.21	25.28	0.3373
15	1	0	16-QAM	22.56	22.52	22.39	24.40	0.2754
15	1	0	64-QAM	21.36	21.23	21.82	23.66	0.2323
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.13	23.25	23.13	25.09	0.3228
10	1	0	16-QAM	22.52	22.36	22.03	24.36	0.2729
10	1	0	64-QAM	21.63	21.32	21.29	23.47	0.2223
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.36	23.26	23.13	25.20	0.3311
5	1	0	16-QAM	22.63	22.56	22.36	24.47	0.2799
5	1	0	64-QAM	21.58	21.63	21.36	23.47	0.2223
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	25.35	25.32	24.85	27.22	0.5272
20	1	99		25.03	25.09	24.87		
20	100	0		24.26	24.32	24.36		
20	1	0	16-QAM	24.56	24.62	24.52	26.49	0.4457
20	1	0	64-QAM	23.69	23.58	23.55	25.56	0.3597
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	25.33	25.32	24.96	27.20	0.5248
15	1	0	16-QAM	24.69	24.44	24.32	26.56	0.4529
15	1	0	64-QAM	23.75	23.51	23.36	25.62	0.3648
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	25.35	25.33	24.96	27.22	0.5272
10	1	0	16-QAM	24.77	24.86	24.25	26.73	0.4710
10	1	0	64-QAM	23.63	23.63	23.25	25.50	0.3548
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	25.26	25.22	24.96	27.13	0.5164
5	1	0	16-QAM	24.32	24.23	24.32	26.19	0.4159
5	1	0	64-QAM	23.36	23.63	23.63	25.50	0.3548
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.99	22.76	22.63	24.54	0.2844
20	1	99		22.63	22.85	22.87		
20	100	0		21.56	21.96	21.79		
20	1	0	16-QAM	22.32	21.65	21.60	23.87	0.2438
20	1	0	64-QAM	21.70	20.82	20.85	23.25	0.2113
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.86	22.68	22.36	24.41	0.2761
15	1	0	16-QAM	22.12	22.06	21.89	23.67	0.2328
15	1	0	64-QAM	21.69	21.16	21.02	23.24	0.2109
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.78	22.75	22.52	24.33	0.2710
10	1	0	16-QAM	21.86	21.65	21.76	23.41	0.2193
10	1	0	64-QAM	20.85	20.63	20.56	22.40	0.1738
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.85	22.77	22.72	24.40	0.2754
5	1	0	16-QAM	21.76	21.63	21.58	23.31	0.2143
5	1	0	64-QAM	20.65	20.71	20.36	22.26	0.1683
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.77	22.63	22.76	24.32	0.2704
3	1	0	16-QAM	21.63	21.68	21.63	23.23	0.2104
3	1	0	64-QAM	20.73	20.32	20.58	22.28	0.1690
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.76	22.73	22.72	24.31	0.2698
1.4	1	0	16-QAM	21.32	21.58	21.54	23.13	0.2056
1.4	1	0	64-QAM	20.69	20.54	20.57	22.24	0.1675
Limit	EIRP < 1W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.87	22.63	22.63	20.78	0.1197
20	1	99		22.56	23.32	22.02		
20	100	0		21.58	21.96	21.63		
20	1	0	16-QAM	21.32	21.36	21.97	19.43	0.0877
20	1	0	64-QAM	20.36	20.97	20.69	18.43	0.0697
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.44	22.74	22.77	20.23	0.1054
15	1	0	16-QAM	21.56	21.58	21.96	19.42	0.0875
15	1	0	64-QAM	20.96	20.74	20.58	18.42	0.0695
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.36	22.82	22.86	20.32	0.1076
10	1	0	16-QAM	21.86	21.65	21.54	19.32	0.0855
10	1	0	64-QAM	20.66	20.69	20.38	18.15	0.0653
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.58	22.58	22.39	20.04	0.1009
5	1	0	16-QAM	21.52	21.63	21.85	19.31	0.0853
5	1	0	64-QAM	20.36	20.71	20.36	18.17	0.0656
Limit	ERP < 3W			Result			Pass	



LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 0.37 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	20.67	20.58	20.64	21.28	0.1343
10+10	1	0	1	49		12.48	12.25	12.30		
10+10	1	49	1	0		22.50	23.06	22.57		
10+10	1	0	1	49	16-QAM	13.21	12.64	12.10	20.58	0.1143
10+10	1	49	1	0		21.93	22.36	21.65		
10+10	1	0	1	49	64-QAM	12.36	12.43	12.46	19.36	0.0863
10+10	1	49	1	0		20.71	20.83	21.14		
Limit	ERP < 7W					Result			Pass	

LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 1.55 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+5	75	0	25	0	QPSK	22.98	22.24	22.13	24.53	0.2838
15+5	1	0	1	24		22.15	22.19	22.13		
15+5	1	74	1	0		21.65	22.78	22.65		
15+5	1	0	1	24	16-QAM	22.50	22.10	22.16	24.32	0.2704
15+5	1	74	1	0		22.51	22.77	22.57		
15+5	1	0	1	24	64-QAM	22.44	22.13	22.56	24.11	0.2576
15+5	1	74	1	0		22.31	22.50	22.26		
Limit	EIRP < 1W					Result			Pass	

LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 1.55 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	20.51	20.31	20.43	24.20	0.2630
20+20	1	0	1	99		13.74	13.42	13.52		
20+20	1	99	1	0		22.36	22.65	22.47		
20+20	1	0	1	99	16-QAM	14.13	14.10	13.48	23.44	0.2208
20+20	1	99	1	0		21.32	21.89	21.41		
20+20	1	0	1	99	64-QAM	14.48	13.87	14.19	22.67	0.1849
20+20	1	99	1	0		20.69	20.88	21.12		
Limit	EIRP < 1W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 1.88 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	21.86	21.85	22.13	25.83	0.3828
20+20	1	0	1	99		15.12	14.96	15.03		
20+20	1	99	1	0		23.91	23.79	23.95		
20+20	1	0	1	99	16-QAM	15.32	15.55	15.65	25.54	0.3581
20+20	1	99	1	0		23.66	23.26	23.36		
20+20	1	0	1	99	64-QAM	15.13	15.12	15.52	24.10	0.2570
20+20	1	99	1	0		22.21	22.03	22.22		
20+15	100	0	75	0	QPSK	20.40	20.23	20.37	24.26	0.2667
20+15	1	0	1	74		13.93	13.36	13.81		
20+15	1	99	1	0		22.36	22.38	22.13		
20+15	1	0	1	74	16-QAM	14.26	13.96	13.64	24.08	0.2559
20+15	1	99	1	0		22.20	21.80	21.83		
15+20	75	0	100	0	QPSK	20.41	20.34	20.33	25.24	0.3342
15+20	1	0	1	99		13.46	13.05	13.75		
15+20	1	74	1	0		22.82	22.19	23.36		
15+20	1	0	1	99	16-QAM	13.70	13.83	14.30	23.73	0.2360
15+20	1	74	1	0		21.60	21.66	21.85		
Limit	EIRP < 2W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 1.88 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	75	0	QPSK	20.34	20.22	20.31	24.27	0.2673
20+10	1	0	1	74		13.71	13.70	13.76		
20+10	1	99	1	0		22.31	22.18	22.39		
20+10	1	0	1	74	16-QAM	14.31	13.98	14.21	24.16	0.2606
20+10	1	99	1	0		21.74	21.42	22.28		
10+20	75	0	100	0	QPSK	20.31	20.24	20.12	24.23	0.2649
10+20	1	0	1	99		13.58	13.70	13.71		
10+20	1	74	1	0		22.35	22.19	22.35		
10+20	1	0	1	99	16-QAM	14.49	13.92	13.52	23.42	0.2198
10+20	1	74	1	0		21.28	21.49	21.54		
15+15	75	0	100	0	QPSK	20.35	20.24	20.30	24.24	0.2655
15+15	1	0	1	99		13.64	13.67	13.67		
15+15	1	74	1	0		22.36	22.10	22.31		
15+15	1	0	1	99	16-QAM	14.06	13.82	13.83	23.89	0.2449
15+15	1	74	1	0		22.01	21.49	21.39		
Limit	EIRP < 2W					Result			Pass	

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 1.88 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	75	0	100	0	QPSK	20.34	20.15	20.31	24.19	0.2624
15+10	1	0	1	99		13.80	20.32	13.94		
15+10	1	74	1	0		22.31	22.23	22.27		
15+10	1	0	1	99	16-QAM	13.78	19.36	14.28	23.82	0.2410
15+10	1	74	1	0		21.40	21.94	21.69		
Limit	EIRP < 2W					Result			Pass	



LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = 1.84 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	23.57	23.52	23.55	25.41	0.3475
20+20	1	99	1	0	16-QAM	22.58	22.49	22.44	24.42	0.2767
20+20	1	99	1	0	64-QAM	21.54	21.46	21.46	23.38	0.2178
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 1.87 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	21.59	21.19	21.31	25.50	0.3548
20+20	1	0	1	99		15.03	14.42	14.62		
20+20	1	99	1	0		23.63	23.18	23.14		
20+20	1	0	1	99	16-QAM	15.22	14.77	15.29	24.98	0.3148
20+20	1	99	1	0		23.11	22.81	22.47		
20+20	1	0	1	99	64-QAM	15.55	14.54	15.25	24.90	0.3090
20+20	1	99	1	0		23.03	21.63	21.58		
20+15	100	0	75	0	QPSK	21.49	21.13	21.16	25.38	0.3451
20+15	1	0	1	74		14.88	14.47	14.72		
20+15	1	99	1	0		23.51	23.22	22.96		
20+15	1	0	1	74	16-QAM	15.44	15.09	14.88	24.96	0.3133
20+15	1	99	1	0		23.09	22.97	22.82		
15+20	75	0	100	0	QPSK	21.48	21.28	21.08	25.20	0.3311
15+20	1	0	1	99		14.79	14.59	14.57		
15+20	1	74	1	0		22.41	23.33	23.01		
15+20	1	0	1	99	16-QAM	15.38	15.28	14.64	24.68	0.2938
15+20	1	74	1	0		22.39	22.81	22.55		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 1.87 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	21.41	21.14	21.11	25.37	0.3443
20+10	1	0	1	49		14.89	14.55	14.78		
20+10	1	99	1	0		23.50	23.32	22.95		
20+10	1	0	1	49	16-QAM	15.44	15.17	15.14	25.13	0.3258
20+10	1	99	1	0		23.26	22.61	22.24		
10+20	50	0	100	0	QPSK	21.32	21.17	21.10	25.42	0.3483
10+20	1	0	1	99		14.85	14.45	14.61		
10+20	1	49	1	0		23.55	23.12	23.06		
10+20	1	0	1	99	16-QAM	15.36	14.94	15.24	25.25	0.3350
10+20	1	49	1	0		23.38	22.67	22.68		
20+5	100	0	25	0	QPSK	21.54	21.21	20.99	25.09	0.3228
20+5	1	0	1	24		14.98	14.62	14.67		
20+5	1	99	1	0		22.68	23.22	22.72		
20+5	1	0	1	24	16-QAM	15.47	15.32	15.41	25.06	0.3206
20+5	1	99	1	0		23.19	22.79	22.56		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 1.87 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	21.47	21.18	21.06	24.51	0.2825
5+20	1	0	1	99		14.82	14.47	14.61		
5+20	1	24	1	0		22.13	22.64	22.58		
5+20	1	0	1	99	16-QAM	22.86	15.05	15.07	24.73	0.2972
5+20	1	24	1	0		22.51	22.39	22.29		
15+10	75	0	50	0	QPSK	21.44	21.11	20.99	25.46	0.3516
15+10	1	0	1	49		14.85	14.52	14.71		
15+10	1	74	1	0		23.59	23.09	22.88		
15+10	1	0	1	49	16-QAM	15.36	15.05	15.32	24.95	0.3126
15+10	1	74	1	0		23.08	22.64	21.83		
10+15	50	0	75	0	QPSK	21.41	21.16	21.11	25.32	0.3404
10+15	1	0	1	74		14.87	14.64	14.57		
10+15	1	49	1	0		23.45	23.25	23.02		
10+15	1	0	1	74	16-QAM	15.28	14.95	14.90	25.00	0.3162
10+15	1	49	1	0		23.13	22.44	22.59		
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 1.87 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+15	75	0	75	0	QPSK	20.76	21.08	21.07	25.33	0.3412
15+15	1	0	1	74		14.88	14.43	14.61		
15+15	1	74	1	0		23.46	23.26	22.97		
15+15	1	0	1	74	16-QAM	15.36	14.96	14.78	24.98	0.3148
15+15	1	74	1	0		23.11	22.61	22.47		
Limit	EIRP < 2W					Result			Pass	



Appendix B. Test Results of Radiated Test

<Sample 1>

LTE Band 25

LTE Band 25 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-57.86	-13	-44.86	-78.71	-64.43	1.67	8.24	H
	5556	-55.34	-13	-42.34	-80.85	-62.41	2.66	9.72	H
	7398	-54.16	-13	-41.16	-81.25	-63.29	2.46	11.60	H
									H
									H
									H
	3702	-58.02	-13	-45.02	-78.91	-64.59	1.67	8.24	V
	5556	-53.56	-13	-40.56	-79.07	-60.63	2.66	9.72	V
	7398	-54.16	-13	-41.16	-81.47	-63.29	2.46	11.60	V
									V
									V
									V
Middle	3738	-58.02	-13	-45.02	-78.97	-64.63	1.68	8.29	H
	5616	-55.53	-13	-42.53	-81.19	-62.58	2.69	9.75	H
	7482	-54.44	-13	-41.44	-81.36	-63.77	2.44	11.76	H
									H
									H
									H
	3738	-58.21	-13	-45.21	-79.05	-64.82	1.68	8.29	V
	5616	-51.43	-13	-38.43	-77.11	-58.48	2.69	9.75	V
	7482	-53.79	-13	-40.79	-81.24	-63.12	2.44	11.76	V
									V
									V
									V



LTE Band 25 / 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)
Highest	3792	-58.24	-13	-45.24	-79.12	-64.89	1.70	8.35	H
	5688	-55.31	-13	-42.31	-81.2	-62.35	2.73	9.78	H
	7578	-53.67	-13	-40.67	-81.18	-63.11	2.40	11.85	H
									H
									H
									H
									H
	3792	-58.27	-13	-45.27	-79.2	-64.92	1.70	8.35	V
	5688	-54.63	-13	-41.63	-80.53	-61.67	2.73	9.78	V
	7578	-53.69	-13	-40.69	-81.38	-63.13	2.40	11.85	V
									V
									V
									V
									V

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

**LTE Band 66**

LTE Band 66 / 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	3420	-56.52	-13	-43.52	-77.12	-62.59	1.58	7.65	H
	5136	-55.97	-13	-42.97	-80.23	-63.25	2.42	9.70	H
	6840	-54.94	-13	-41.94	-81.67	-62.91	2.64	10.61	H
									H
									H
									H
									H
	3420	-56.52	-13	-43.52	-77.23	-62.59	1.58	7.65	V
	5136	-54.93	-13	-41.93	-79.02	-62.21	2.42	9.70	V
	6840	-55.12	-13	-42.12	-81.79	-63.09	2.64	10.61	V
									V
									V
									V
									V
Middle	3468	-57.09	-13	-44.09	-77.91	-63.35	1.59	7.86	H
	5208	-55.67	-13	-42.67	-80.2	-62.91	2.46	9.70	H
	6942	-54.76	-13	-41.76	-81.66	-62.88	2.61	10.73	H
									H
									H
									H
									H
	3468	-57.29	-13	-44.29	-78.03	-63.55	1.59	7.86	V
	5208	-52.71	-13	-39.71	-77.1	-59.95	2.46	9.70	V
	6942	-54.64	-13	-41.64	-81.48	-62.76	2.61	10.73	V
									V
									V
									V
									V
									V



LTE Band 66 / 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)
Highest	3522	-57.33	-13	-44.33	-78.21	-63.75	1.61	8.03	H
	5286	-55.25	-13	-42.25	-79.99	-62.45	2.50	9.70	H
	7038	-54.68	-13	-41.68	-81.68	-62.98	2.58	10.88	H
									H
									H
									H
									H
	3522	-57.34	-13	-44.34	-78.14	-63.76	1.61	8.03	V
	5286	-52.45	-13	-39.45	-77.1	-59.65	2.50	9.70	V
	7038	-54.47	-13	-41.47	-81.62	-62.77	2.58	10.88	V
									V
									V
									V
									V

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

**LTE Band 66B**

LTE Band 66B / 15+5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3440	-57.20	-13	-44.20	-77.98	-63.35	1.59	7.74	H
	5160	-55.81	-13	-42.81	-80.17	-63.08	2.43	9.70	H
	6880	-54.40	-13	-41.40	-81.2	-62.43	2.63	10.66	H
									H
									H
									H
									H
	3440	-57.42	-13	-44.42	-78.17	-63.57	1.59	7.74	V
	5160	-55.80	-13	-42.80	-80.01	-63.07	2.43	9.70	V
	6880	-53.78	-13	-40.78	-80.55	-61.81	2.63	10.66	V
									V
									V
									V
									V
Middle	3510	-57.09	-13	-44.09	-78.09	-63.49	1.61	8.01	H
	5265	-55.49	-13	-42.49	-80.21	-62.7	2.49	9.70	H
	7020	-54.43	-13	-41.43	-81.46	-62.69	2.58	10.84	H
									H
									H
									H
									H
	3510	-57.32	-13	-44.32	-78.18	-63.72	1.61	8.01	V
	5265	-55.97	-13	-42.97	-80.59	-63.18	2.49	9.70	V
	7020	-54.49	-13	-41.49	-81.58	-62.75	2.58	10.84	V
									V
									V
									V
									V
									V



LTE Band 66B / 15+5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3540	-56.44	-13	-43.44	-77.43	-62.87	1.62	8.05	H
	5310	-55.62	-13	-42.62	-80.54	-62.8	2.52	9.70	H
	7080	-54.54	-13	-41.54	-81.59	-62.94	2.56	10.96	H
									H
									H
									H
									H
	3540	-56.77	-13	-43.77	-77.63	-63.2	1.62	8.05	V
	5310	-55.56	-13	-42.56	-80.39	-62.74	2.52	9.70	V
	7080	-54.03	-13	-41.03	-81.16	-62.43	2.56	10.96	V
									V
									V
									V
									V

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

**LTE Band 66C**

LTE Band 66C / 20+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	3462	-57.19	-13	-44.19	-77.99	-63.43	1.59	7.83	H
	5190	-56.13	-13	-43.13	-80.51	-63.38	2.45	9.70	H
	6918	-54.59	-13	-41.59	-81.54	-62.67	2.62	10.70	H
									H
									H
									H
									H
	3462	-56.77	-13	-43.77	-77.55	-63.01	1.59	7.83	V
	5190	-55.77	-13	-42.77	-80.03	-63.02	2.45	9.70	V
	6918	-55.07	-13	-42.07	-81.87	-63.15	2.62	10.70	V
									V
									V
									V
									V
Middle	3510	-56.63	-13	-43.63	-77.63	-63.03	1.61	8.01	H
	5262	-55.41	-13	-42.41	-80.14	-62.62	2.49	9.70	H
	7020	-54.42	-13	-41.42	-81.46	-62.68	2.58	10.84	H
									H
									H
									H
									H
	3510	-56.38	-13	-43.38	-77.12	-62.78	1.61	8.01	V
	5262	-54.81	-13	-41.81	-79.51	-62.02	2.49	9.70	V
	7020	-54.48	-13	-41.48	-81.66	-62.74	2.58	10.84	V
									V
									V
									V
									V
									V



LTE Band 66C / 20+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)
Highest	3522	-57.16	-13	-44.16	-78.06	-63.58	1.61	8.03	H
	5280	-56.03	-13	-43.03	-80.79	-63.23	2.50	9.70	H
	7038	-54.28	-13	-41.28	-81.26	-62.58	2.58	10.88	H
									H
									H
									H
									H
	3522	-57.29	-13	-44.29	-78.12	-63.71	1.61	8.03	V
	5280	-54.59	-13	-41.59	-79.38	-61.79	2.50	9.70	V
	7038	-54.79	-13	-41.79	-81.89	-63.09	2.58	10.88	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	4992	-54.66	-25	-29.66	-78.41	-62.01	2.33	9.68	H
	7488	-54.15	-25	-29.15	-81.34	-63.49	2.43	11.78	H
	9990	-51.06	-25	-26.06	-82.37	-60.57	2.69	12.21	H
									H
									H
									H
									H
	4992	-53.54	-25	-28.54	-77.14	-60.89	2.33	9.68	V
	7488	-54.13	-25	-29.13	-81.48	-63.47	2.43	11.78	V
	9990	-51.15	-25	-26.15	-82.53	-60.66	2.69	12.21	V
									V
									V
									V
									V
Middle	5166	-53.77	-25	-28.77	-78.13	-61.04	2.43	9.70	H
	7752	-53.59	-25	-28.59	-81.35	-63.19	2.35	11.95	H
	10332	-50.19	-25	-25.19	-82.36	-59.83	2.69	12.33	H
									H
									H
									H
									H
	5166	-51.46	-25	-26.46	-75.69	-58.73	2.43	9.70	V
	7752	-53.54	-25	-28.54	-81.59	-63.14	2.35	11.95	V
	10332	-49.97	-25	-24.97	-82.19	-59.61	2.69	12.33	V
									V
									V
									V
									V



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)
Highest	5340	-53.36	-25	-28.36	-78.3	-60.53	2.53	9.70	H
	8010	-52.51	-25	-27.51	-80.97	-62.35	2.27	12.11	H
	10674	-49.41	-25	-24.41	-82.72	-59.15	2.69	12.43	H
									H
									H
									H
									H
	5340	-51.58	-25	-26.58	-76.48	-58.75	2.53	9.70	V
	8010	-52.51	-25	-27.51	-81.29	-62.35	2.27	12.11	V
	10674	-49.07	-25	-24.07	-82.25	-58.81	2.69	12.43	V
									V
									V
									V
									V

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

**LTE Band 41C**

LTE Band 41C / 20+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	5032	-56.08	-25	-31.08	-79.98	-63.42	2.36	9.70	H
	7548	-54.03	-25	-29.03	-81.33	-63.45	2.41	11.83	H
	10064	-50.94	-25	-25.94	-82.47	-60.47	2.70	12.23	H
									H
									H
									H
									H
	5032	-55.48	-25	-30.48	-79.19	-62.82	2.36	9.70	V
	7548	-52.57	-25	-27.57	-80.12	-61.99	2.41	11.83	V
	10064	-51.31	-25	-26.31	-82.77	-60.84	2.70	12.23	V
									V
									V
									V
									V
Middle	5184	-51.99	-25	-26.99	-76.41	-59.25	2.44	9.70	H
	7779	-53.20	-25	-28.20	-81.04	-62.83	2.34	11.97	H
	10372	-49.95	-25	-24.95	-82.44	-59.61	2.69	12.35	H
									H
									H
									H
									H
	5184	-50.41	-25	-25.41	-74.69	-57.67	2.44	9.70	V
	7779	-52.74	-25	-27.74	-80.87	-62.37	2.34	11.97	V
	10372	-50.15	-25	-25.15	-82.5	-59.81	2.69	12.35	V
									V
									V
									V
									V



LTE Band 41C / 20+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)
Highest	5340	-51.95	-25	-26.95	-76.94	-59.12	2.53	9.70	H
	8010	-52.43	-25	-27.43	-80.82	-62.27	2.27	12.11	H
	10680	-49.31	-25	-24.31	-82.64	-59.06	2.69	12.44	H
									H
									H
									H
									H
	5340	-49.15	-25	-24.15	-74.06	-56.32	2.53	9.70	V
	8010	-51.72	-25	-26.72	-80.45	-61.56	2.27	12.11	V
	10680	-49.52	-25	-24.52	-82.67	-59.27	2.69	12.44	V
									V
									V
									V
									V

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



<Sample 2>

LTE Band 26

LTE Band 26 / 15MHz / 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	-63.48	-13	-50.48	-75.36	-65.24	0.98	4.89	H
	2472	-56.82	-13	-43.82	-74.03	-58.7	1.28	5.32	H
	3296	-57.85	-13	-44.85	-77.19	-61.26	1.54	7.10	H
									H
									H
									H
									H
	1648	-62.93	-13	-49.93	-75.28	-64.69	0.98	4.89	V
	2472	-57.60	-13	-44.60	-75.25	-59.48	1.28	5.32	V
	3296	-57.49	-13	-44.49	-77.16	-60.9	1.54	7.10	V
									V
									V
									V
									V
Middle	1658	-63.67	-13	-50.67	-75.71	-65.4	0.98	4.86	H
	2487	-55.96	-13	-42.96	-73.15	-57.88	1.29	5.36	H
	3316	-57.82	-13	-44.82	-77.27	-61.31	1.55	7.19	H
									H
									H
									H
									H
	1658	-62.89	-13	-49.89	-75.4	-64.62	0.98	4.86	V
	2487	-57.24	-13	-44.24	-74.87	-59.16	1.29	5.36	V
	3316	-57.50	-13	-44.50	-77.23	-60.99	1.55	7.19	V
									V
									V
									V
									V
									V



LTE Band 26 / 15MHz / 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)
Highest	1668	-63.64	-13	-50.64	-75.68	-65.33	0.99	4.83	H
	2504	-55.76	-13	-42.76	-73	-57.72	1.29	5.40	H
	3336	-57.76	-13	-44.76	-77.29	-61.34	1.55	7.28	H
									H
									H
									H
									H
	1668	-63.34	-13	-50.34	-75.85	-65.03	0.99	4.83	V
	2504	-55.35	-13	-42.35	-73.04	-57.31	1.29	5.40	V
	3336	-57.82	-13	-44.82	-77.6	-61.4	1.55	7.28	V
									V
									V
									V
									V

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

**LTE Band 5B**

LTE Band 5B / 10+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)
Lowest	1672	-63.94	-13	-50.94	-76.09	-65.62	0.99	4.82	H
	2504	-54.95	-13	-41.95	-72.16	-56.91	1.29	5.40	H
	3336	-57.95	-13	-44.95	-77.5	-61.53	1.55	7.28	H
									H
									H
									H
									H
	1672	-63.37	-13	-50.37	-76.01	-65.05	0.99	4.82	V
	2504	-52.96	-13	-39.96	-70.61	-54.92	1.29	5.40	V
	3336	-57.65	-13	-44.65	-77.43	-61.23	1.55	7.28	V
									V
									V
									V
									V
Middle	1672	-63.84	-13	-50.84	-75.93	-65.52	0.99	4.82	H
	2512	-54.85	-13	-41.85	-72.07	-56.82	1.29	5.41	H
	3344	-57.57	-13	-44.57	-77.28	-61.18	1.56	7.31	H
									H
									H
									H
									H
	1672	-63.19	-13	-50.19	-75.83	-64.87	0.99	4.82	V
	2512	-53.48	-13	-40.48	-71.2	-55.45	1.29	5.41	V
	3344	-57.95	-13	-44.95	-77.78	-61.56	1.56	7.31	V
									V
									V
									V
									V
									V



LTE Band 5B / 10+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)
Highest	1680	-63.48	-13	-50.48	-75.77	-65.13	0.99	4.80	H
	2520	-54.54	-13	-41.54	-71.73	-56.51	1.30	5.42	H
	3352	-58.09	-13	-45.09	-77.64	-61.73	1.56	7.35	H
									H
									H
									H
									H
	1680	-63.18	-13	-50.18	-75.87	-64.83	0.99	4.80	V
	2520	-53.16	-13	-40.16	-70.86	-55.13	1.30	5.42	V
	3352	-57.98	-13	-44.98	-77.77	-61.62	1.56	7.35	V
									V
									V
									V
									V

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

**LTE Band 7**

LTE Band 7 / 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	5004	-54.53	-25	-29.53	-78.35	-61.89	2.34	9.70	H
	7506	-51.84	-25	-26.84	-79.07	-61.22	2.43	11.80	H
	10008	-51.18	-25	-26.18	-82.54	-60.69	2.70	12.20	H
									H
									H
									H
									H
	5004	-54.75	-25	-29.75	-78.39	-62.11	2.34	9.70	V
	7506	-50.37	-25	-25.37	-77.88	-59.75	2.43	11.80	V
	10008	-51.37	-25	-26.37	-82.7	-60.88	2.70	12.20	V
									V
									V
									V
									V
Middle	5052	-54.54	-25	-29.54	-78.54	-61.87	2.37	9.70	H
	7578	-49.69	-25	-24.69	-77.08	-59.13	2.40	11.85	H
	10098	-51.29	-25	-26.29	-82.87	-60.83	2.70	12.24	H
									H
									H
									H
									H
	5052	-52.92	-25	-27.92	-76.71	-60.25	2.37	9.70	V
	7578	-44.69	-25	-19.69	-72.27	-54.13	2.40	11.85	V
	10098	-51.27	-25	-26.27	-82.86	-60.81	2.70	12.24	V
									V
									V
									V
									V
									V



LTE Band 7 / 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)
Highest	5100	-53.45	-25	-28.45	-77.53	-60.76	2.39	9.70	H
	7656	-51.63	-25	-26.63	-79.21	-61.14	2.38	11.89	H
	10206	-50.66	-25	-25.66	-82.62	-60.25	2.70	12.28	H
									H
									H
									H
									H
	5100	-51.74	-25	-26.74	-75.71	-59.05	2.39	9.70	V
	7656	-48.62	-25	-23.62	-76.44	-58.13	2.38	11.89	V
	10206	-50.84	-25	-25.84	-82.71	-60.43	2.70	12.28	V
									V
									V
									V
									V

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

**LTE Band 7C**

LTE Band 7C / 20+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	5040	-55.17	-25	-30.17	-79.11	-62.51	2.36	9.70	H
	7560	-53.69	-25	-28.69	-81.04	-63.12	2.41	11.84	H
	10080	-50.91	-25	-25.91	-82.5	-60.45	2.70	12.23	H
									H
									H
									H
									H
	5040	-53.88	-25	-28.88	-77.64	-61.22	2.36	9.70	V
	7560	-52.78	-25	-27.78	-80.39	-62.21	2.41	11.84	V
	10080	-50.51	-25	-25.51	-82.03	-60.05	2.70	12.23	V
									V
									V
									V
									V
Middle	5070	-55.28	-25	-30.28	-79.31	-62.6	2.38	9.70	H
	7605	-53.93	-25	-28.93	-81.4	-63.4	2.40	11.86	H
	10140	-50.65	-25	-25.65	-82.41	-60.21	2.70	12.26	H
									H
									H
									H
									H
	5070	-54.01	-25	-29.01	-77.86	-61.33	2.38	9.70	V
	7605	-53.45	-25	-28.45	-81.18	-62.92	2.40	11.86	V
	10140	-50.72	-25	-25.72	-82.39	-60.28	2.70	12.26	V
									V
									V
									V
									V



LTE Band 7C / 20+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)
Highest	5100	-53.05	-25	-28.05	-77.19	-60.36	2.39	9.70	H
	7650	-53.44	-25	-28.44	-80.97	-62.95	2.38	11.89	H
	10200	-50.33	-25	-25.33	-82.29	-59.91	2.70	12.28	H
									H
									H
									H
									H
	5100	-51.60	-25	-26.60	-75.57	-58.91	2.39	9.70	V
	7650	-52.41	-25	-27.41	-80.21	-61.92	2.38	11.89	V
	10200	-50.31	-25	-25.31	-82.17	-59.89	2.70	12.28	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 / 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)
Lowest	1400	-63.94	-13	-50.94	-74.15	-65.60	0.87	4.68	H
	2096	-60.63	-13	-47.63	-76.02	-61.50	1.16	4.19	H
	2800	-58.94	-13	-45.94	-76.49	-61.05	1.38	5.64	H
									H
									H
									H
									H
	1400	-63.27	-13	-50.27	-73.95	-64.93	0.87	4.68	V
	2096	-60.40	-13	-47.40	-76.12	-61.27	1.16	4.19	V
	2800	-58.29	-13	-45.29	-76.62	-60.40	1.38	5.64	V
									V
									V
									V
									V
Middle	1408	-63.14	-13	-50.14	-73.34	-64.85	0.87	4.73	H
	2112	-60.93	-13	-47.93	-76.40	-61.85	1.17	4.24	H
	2816	-59.28	-13	-46.28	-76.87	-61.39	1.39	5.65	H
									H
									H
									H
									H
	1408	-62.71	-13	-49.71	-73.38	-64.42	0.87	4.73	V
	2112	-60.47	-13	-47.47	-76.28	-61.39	1.17	4.24	V
	2816	-58.11	-13	-45.11	-76.50	-60.22	1.39	5.65	V
									V
									V
									V
									V



LTE Band 12 / 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)
Highest	1416	-63.33	-13	-50.33	-73.53	-65.08	0.87	4.78	H
	2120	-60.61	-13	-47.61	-76.16	-61.55	1.17	4.26	H
	2824	-59.19	-13	-46.19	-76.77	-61.31	1.39	5.66	H
									H
									H
									H
									H
	1416	-63.52	-13	-50.52	-74.19	-65.27	0.87	4.78	V
	2120	-60.21	-13	-47.21	-76.11	-61.15	1.17	4.26	V
	2824	-58.36	-13	-45.36	-76.74	-60.48	1.39	5.66	V
									V
									V
									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	1552	-64.25	-13	-51.25	-75.16	-66.32	0.94	5.15	H
	2336	-46.34	-13	-33.34	-63.03	-47.86	1.24	4.91	H
	3112	-58.78	-13	-45.78	-77.25	-61.44	1.48	6.29	H
									H
									H
									H
									H
	1552	-63.32	-13	-50.32	-74.86	-65.39	0.94	5.15	V
	2336	-51.53	-13	-38.53	-68.59	-53.05	1.24	4.91	V
	3112	-58.16	-13	-45.16	-77.26	-60.82	1.48	6.29	V
									V
									V
									V
									V
Middle	1560	-63.53	-42.15	-21.38	-74.58	-65.57	0.94	5.13	H
	2336	-42.36	-13	-29.36	-59.02	-43.88	1.24	4.91	H
	3120	-58.74	-13	-45.74	-77.26	-61.43	1.49	6.33	H
									H
									H
									H
									H
	1560	-63.44	-42.15	-21.29	-75.10	-65.48	0.94	5.13	V
	2336	-47.96	-13	-34.96	-64.95	-49.48	1.24	4.91	V
	3120	-57.82	-13	-44.82	-76.97	-60.51	1.49	6.33	V
									V
									V
									V
									V



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)
Highest	1560	-64.49	-42.15	-22.34	-75.67	-66.53	0.94	5.13	H
	2344	-46.04	-13	-33.04	-62.71	-47.58	1.24	4.93	H
	3128	-58.89	-13	-45.89	-77.37	-61.62	1.49	6.36	H
									H
									H
									H
									H
	1560	-63.92	-42.15	-21.77	-75.56	-65.96	0.94	5.13	V
	2344	-50.47	-13	-37.47	-67.53	-52.01	1.24	4.93	V
	3128	-58.29	-13	-45.29	-77.49	-61.02	1.49	6.36	V
									V
									V
									V
									V

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



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	1552	-62.49	-13	-49.49	-73.51	-64.56	0.94	5.15	H
	2336	-41.83	-13	-28.83	-58.43	-43.35	1.24	4.91	H
	3112	-58.72	-13	-45.72	-77.15	-61.38	1.48	6.29	H
									H
									H
									H
									H
	1552	-63.61	-13	-50.61	-75.15	-65.68	0.94	5.15	V
	2336	-45.36	-13	-32.36	-62.47	-46.88	1.24	4.91	V
	3112	-57.67	-13	-44.67	-76.84	-60.33	1.48	6.29	V
									V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 20MHz / 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	1328	-64.33	-13	-51.33	-74.22	-65.58	0.84	4.23	H
	1992	-59.98	-13	-46.98	-74.85	-60.62	1.13	3.92	H
	2648	-60.01	-13	-47.01	-77.3	-62.04	1.34	5.52	H
									H
									H
									H
									H
	1328	-64.02	-13	-51.02	-74.32	-65.27	0.84	4.23	V
	1992	-60.23	-13	-47.23	-75.42	-60.87	1.13	3.92	V
	2648	-59.09	-13	-46.09	-76.99	-61.12	1.34	5.52	V
									V
									V
									V
									V
Middle	1344	-63.91	-13	-50.91	-73.83	-65.25	0.84	4.33	H
	2016	-60.82	-13	-47.82	-75.91	-61.48	1.14	3.95	H
	2696	-58.91	-13	-45.91	-76.29	-60.96	1.35	5.56	H
									H
									H
									H
									H
	1344	-63.28	-13	-50.28	-73.62	-64.62	0.84	4.33	V
	2016	-60.31	-13	-47.31	-75.72	-60.97	1.14	3.95	V
	2696	-58.63	-13	-45.63	-76.68	-60.68	1.35	5.56	V
									V
									V
									V
									V



LTE Band 71 / 20MHz / 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)
Highest	1352	-64.21	-13	-51.21	-74.23	-65.6	0.85	4.38	H
	2040	-59.64	-13	-46.64	-74.8	-60.36	1.15	4.02	H
	2712	-59.58	-13	-46.58	-76.99	-61.64	1.36	5.57	H
									H
									H
									H
									H
	1352	-63.80	-13	-50.80	-74.26	-65.19	0.85	4.38	V
	2040	-59.72	-13	-46.72	-75.2	-60.44	1.15	4.02	V
	2712	-58.88	-13	-45.88	-76.98	-60.94	1.36	5.57	V
									V
									V
									V
									V

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