



FCC RADIO TEST REPORT

FCC ID : LHJ-FE4RW0110
Equipment : FE4RW0110
Brand Name : Continental
Model Name : FE4RW0110
Applicant : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL
60010, USA
Manufacturer : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL
60010, USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Nov. 17, 2022 and testing was performed from Apr. 25, 2023 to May 15, 2023. 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 variant report apply exclusively to the tested model / sample. Without written approval from 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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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)	Pass	
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5)	Not Required	-
	§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 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5)	Not Required	-
	§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	Not Required	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5)	Pass	10.57 dB under the limit at 15516.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by adding host information. All the test cases were performed on original report which can be referred to Sporton Report Number FG150634-01B. Based on the original report, the test cases were verified.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Clio Lo



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	FE4RW0110
Brand Name	Continental
Model Name	FE4RW0110
FCC ID	LHJ-FE4RW0110
Installed into the Host	Equipment name: G12R400G1 Brand name: Continental Model name: G12R400G1
EUT supports Radios application	GSM/GPRS/EGPRS/ WCDMA/HSPA/LTE/GNSS
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

1.2 Product Specification of Equipment Under Test

Product Specification is subject 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 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 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 : 2622.5 MHz ~ 2687.5 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 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 38: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 21.40 dBm LTE Band 4 : 21.64 dBm LTE Band 5 : 21.94 dBm LTE Band 7 : 20.98 dBm LTE Band 38 : 20.93 dBm LTE Band 41 : 21.16 dBm
Antenna Type / Gain	<Internal Antenna>: Internal fix antenna <External Antenna>: external sharkfin antenna



Product Specification is subject to this standard	
Antenna Type / Gain	<Internal Antenna> LTE Band 2: 5.15 dBi LTE Band 4: 4.82 dBi LTE Band 5: 4.69 dBi LTE Band 7: 6.70 dBi LTE Band 38: 6.91 dBi LTE Band 41: 6.91 dBi <External Antenna> LTE Band 2: 2.6 dBi LTE Band 4: 2.4 dBi LTE Band 5: -0.1 dBi LTE Band 7: 2.2 dBi LTE Band 38: 2.7 dBi LTE Band 41: 2.7 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The manufacturer declared that signal attenuation of the connecting cable for GSM1900 between the transmitter and antenna is 1.70 dB.

1.3 Modification of EUT

No modifications made to the EUT during the testing.



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 (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Cotty Hsu
Temperature (°C)	22.1~22.8
Relative Humidity (%)	53~55

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.
	03CH11-HY (TAF Code: 3786)
Test Engineer	Yuan Lee, Fu Chen and Troye Hsieh
Temperature (°C)	19.9~22.4
Relative Humidity (%)	53.1~68.6
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

1.5 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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
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.



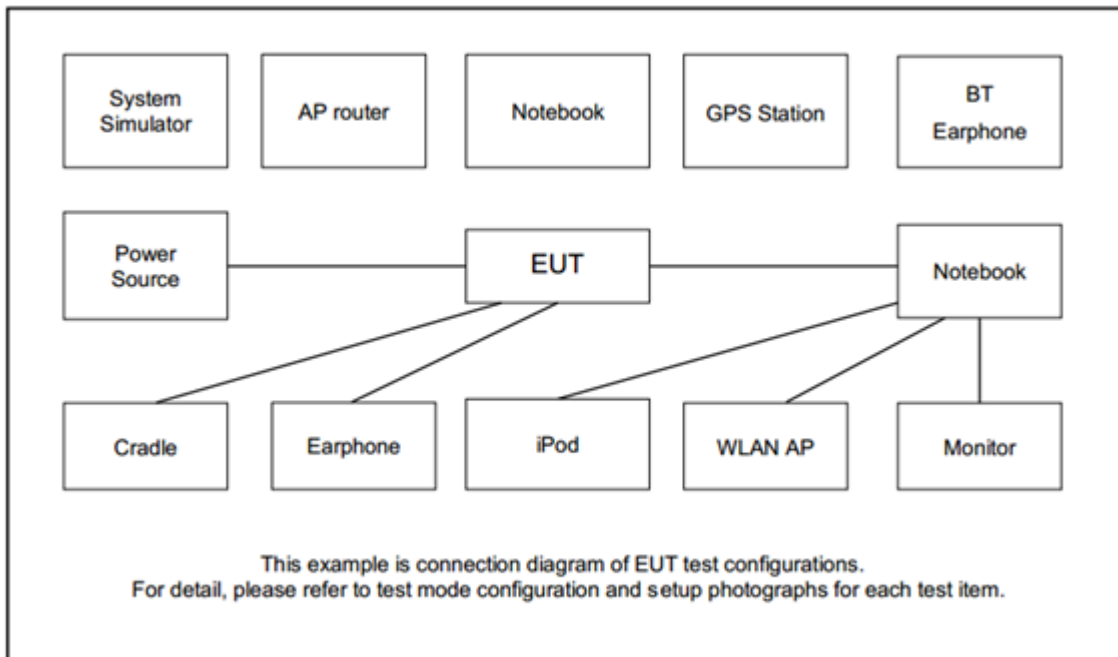
2 Test Configuration of Equipment Under Test

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.

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
	4						v	v	v	v	v	v	v	v	v	v
	5				v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-				v	v	v	v	v	v	v	v	v	v
	38	-	-				v	v	v	v	v	v	v	v	v	v
	41	-	-				v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	2						v	v	v	v	Max. Power					
	4						v	v	v	v						
	5				v	-	-	v	v	v						
	7	-	-				v	v	v	v						
	38	-	-				v	v	v	v						
	41	-	-				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
	38	-	-				v	v			v			v	v	v
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Metal Plate	N/A	N/A	N/A	N/A	N/A
2.	Adapter	TePoo	PT-WC-03	N/A	N/A	N/A
3.	Teddy Jr Load Box	Continental	N/A	N/A	N/A	N/A
4.	External Antenna	Molex	85597238	N/A	N/A	N/A
5.	Power Supply	GW Insteak	GE0821767	N/A	N/A	N/A
6.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900

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

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

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560

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

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

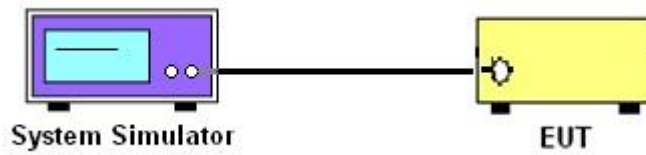
3 Conducted Test Items

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 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.

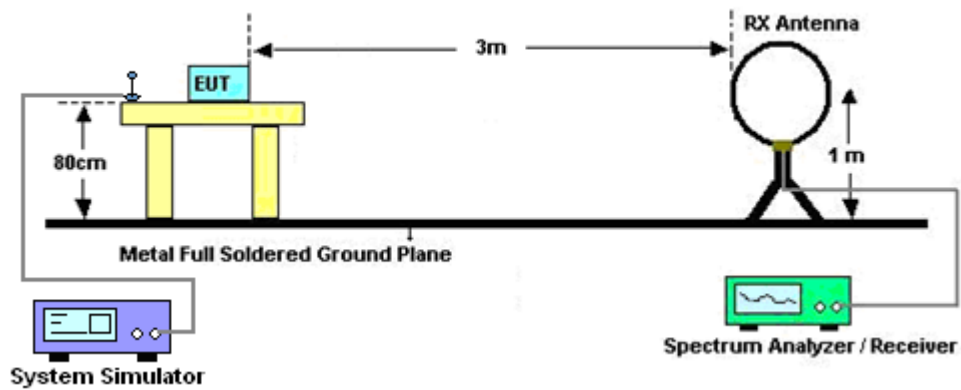
4 Radiated Test Items

4.1 Measuring Instruments

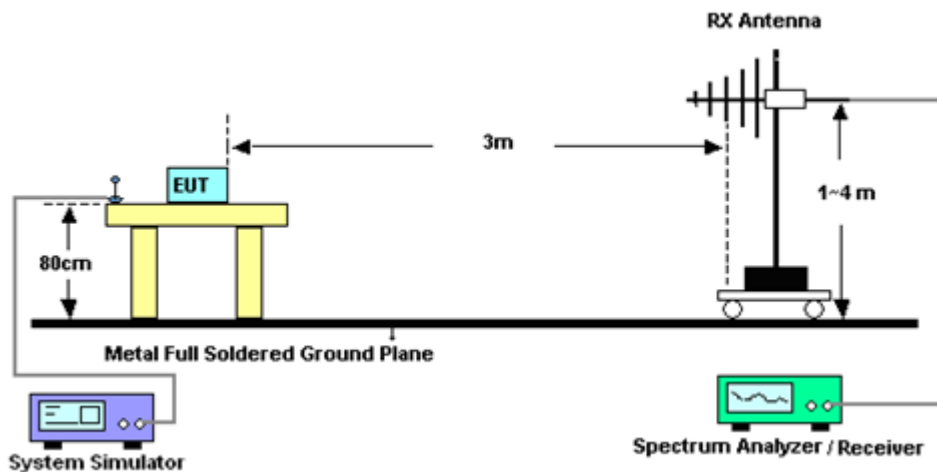
See list of measuring instruments of this test report.

4.1.1 Test Setup

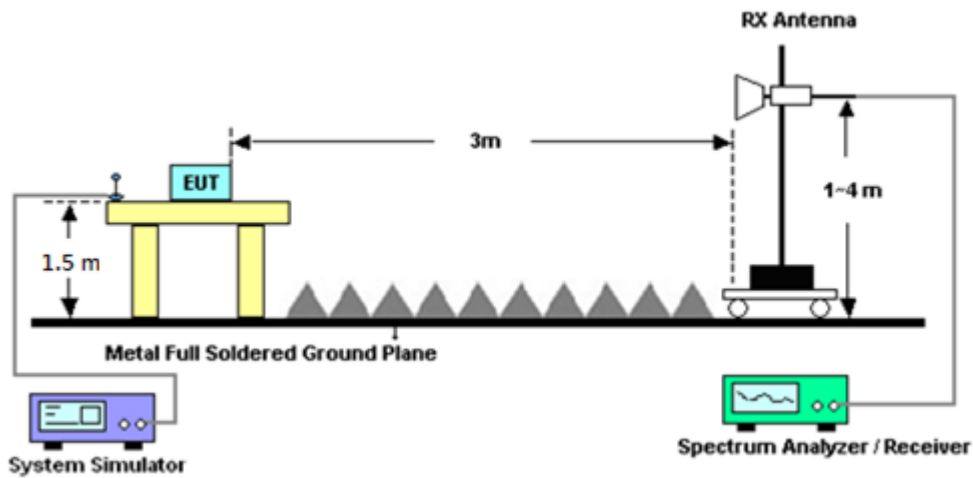
For radiated test below 30MHz



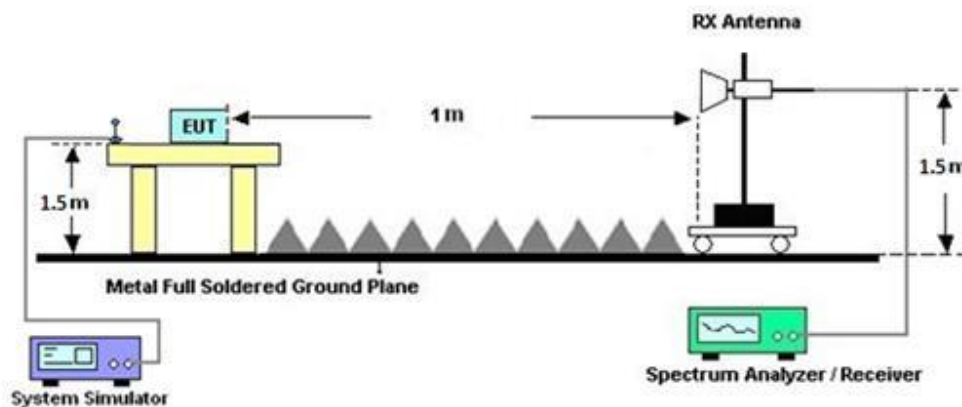
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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.

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
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 25, 2023~ Apr. 27, 2023	Sep. 19, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Apr. 25, 2023~ Apr. 27, 2023	Oct. 07, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 24, 2022	Apr. 25, 2023~ Apr. 27, 2023	Aug. 23, 2023	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Apr. 25, 2023~ Apr. 27, 2023	Nov. 23, 2023	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 09, 2022	Apr. 25, 2023~ Apr. 27, 2023	Dec. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 09, 2022	Apr. 25, 2023~ Apr. 27, 2023	Nov. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 055007	1GHz~18GHz	Jun. 15, 2022	Apr. 25, 2023~ Apr. 27, 2023	Jun. 14, 2023	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Apr. 25, 2023~ Apr. 27, 2023	Jun. 27, 2023	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Apr. 25, 2023~ Apr. 27, 2023	Oct. 06, 2023	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Apr. 25, 2023~ Apr. 27, 2023	Oct. 17, 2023	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 25, 2023~ Apr. 27, 2023	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 25, 2023~ Apr. 27, 2023	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 25, 2023~ Apr. 27, 2023	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 25, 2023~ Apr. 27, 2023	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Apr. 25, 2023~ Apr. 27, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801595/2	30MHz~40GHz	Mar. 07, 2023	Apr. 25, 2023~ Apr. 27, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Apr. 25, 2023~ Apr. 27, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Apr. 25, 2023~ Apr. 27, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN3	3GHz High Pass Filter	Sep. 12, 2022	Apr. 25, 2023~ Apr. 27, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-6 0SS	SN12	1GHz High Pass Filter	Sep. 12, 2022	Apr. 25, 2023~ Apr. 27, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	May15, 2023	Oct. 12, 2023	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.15 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.41 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.45 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 = 3.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	21.36	21.40	21.37	24.85	0.3055
20	1	49		21.24	21.37	21.27		
20	1	99		21.32	21.38	21.29		
20	50	0		20.43	20.51	20.39		
20	50	24		20.39	20.55	20.39		
20	50	50		20.41	20.56	20.47		
20	100	0		20.43	20.53	20.44		
20	1	0	16-QAM	20.66	20.59	20.63	24.12	0.2582
20	1	49		20.50	20.64	20.55		
20	1	99		20.62	20.67	20.51		
20	50	0		19.45	19.55	19.39		
20	50	24		19.43	19.54	19.42		
20	50	50		19.42	19.59	19.48		
20	100	0		19.42	19.54	19.43		
20	1	0	64-QAM	19.61	19.54	19.59	23.06	0.2023
20	1	49		19.46	19.57	19.49		
20	1	99		19.57	19.59	19.50		
20	50	0		18.46	18.42	18.40		
20	50	24		18.44	18.49	18.41		
20	50	50		18.43	18.52	18.48		
20	100	0		18.43	18.46	18.44		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 4.82 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	21.47	21.59	21.64	26.46	0.4426
20	1	49		21.47	21.55	21.54		
20	1	99		21.54	21.55	21.49		
20	50	0		20.62	20.76	20.74		
20	50	24		20.64	20.74	20.70		
20	50	50		20.61	20.72	20.67		
20	100	0		20.62	20.74	20.71		
20	1	0	16-QAM	20.75	20.86	20.92	25.74	0.3750
20	1	49		20.70	20.81	20.81		
20	1	99		20.79	20.80	20.76		
20	50	0		19.64	19.76	19.73		
20	50	24		19.63	19.76	19.73		
20	50	50		19.60	19.71	19.70		
20	100	0		19.61	19.73	19.71		
20	1	0	64-QAM	19.67	19.80	19.85	24.67	0.2931
20	1	49		19.70	19.78	19.75		
20	1	99		19.76	19.79	19.72		
20	50	0		18.66	18.75	18.74		
20	50	24		18.64	18.74	18.75		
20	50	50		18.61	18.73	18.69		
20	100	0		18.64	18.75	18.71		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 4.69 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	21.88	21.94	21.81	24.48	0.2805
10	1	25		21.91	21.83	21.78		
10	1	49		21.83	21.77	21.69		
10	25	0		21.06	20.97	20.90		
10	25	12		21.04	20.96	20.89		
10	25	25		20.99	20.91	20.84		
10	50	0		21.04	20.95	20.88		
10	1	0	16-QAM	21.15	21.11	21.08	23.73	0.2360
10	1	25		21.19	21.09	21.02		
10	1	49		21.13	21.00	20.93		
10	25	0		20.06	19.97	19.91		
10	25	12		20.07	19.95	19.89		
10	25	25		20.01	19.92	19.84		
10	50	0		20.05	19.95	19.88		
10	1	0	64-QAM	20.16	20.12	20.06	22.70	0.1862
10	1	25		20.15	20.04	20.00		
10	1	49		20.14	20.01	19.87		
10	25	0		19.08	18.97	18.91		
10	25	12		19.07	18.98	18.90		
10	25	25		19.02	18.93	18.85		
10	50	0		19.05	18.97	18.89		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 6.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.76	20.81	20.83	27.68	0.5861
20	1	49		20.82	20.88	20.82		
20	1	99		20.98	20.94	20.86		
20	50	0		19.94	20.06	20.01		
20	50	24		20.01	20.06	19.98		
20	50	50		20.04	20.07	19.95		
20	100	0		20.00	20.05	19.97		
20	1	0	16-QAM	20.06	20.11	20.15	26.94	0.4943
20	1	49		20.06	20.14	20.08		
20	1	99		20.23	20.23	20.24		
20	50	0		18.94	19.08	19.02		
20	50	24		19.01	19.07	19.01		
20	50	50		19.05	19.09	18.98		
20	100	0		18.99	19.07	18.98		
20	1	0	64-QAM	19.01	19.04	19.08	25.92	0.3908
20	1	49		19.01	19.13	19.08		
20	1	99		19.22	19.14	19.18		
20	50	0		17.95	18.11	18.04		
20	50	24		18.03	18.10	18.04		
20	50	50		18.07	18.11	18.00		
20	100	0		18.01	18.09	18.00		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = 6.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.80	20.85	20.93	27.84	0.6081
20	1	49		20.77	20.84	20.91		
20	1	99		20.80	20.79	20.89		
20	50	0		19.94	20.06	20.05		
20	50	24		19.94	20.07	20.09		
20	50	50		19.92	20.04	20.07		
20	100	0		19.92	20.04	20.05		
20	1	0	16-QAM	19.85	19.76	19.99	26.90	0.4898
20	1	49		19.85	19.90	19.98		
20	1	99		19.84	19.81	19.95		
20	50	0		18.95	19.04	19.07		
20	50	24		18.86	19.06	19.13		
20	50	50		18.93	19.02	19.11		
20	100	0		18.93	19.05	19.10		
20	1	0	64-QAM	18.62	18.66	18.74	25.67	0.3690
20	1	49		18.62	18.70	18.76		
20	1	99		18.60	18.60	18.75		
20	50	0		17.94	18.06	18.08		
20	50	24		17.96	18.07	18.11		
20	50	50		17.92	17.85	18.11		
20	100	0		17.92	18.03	18.09		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 6.91 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.92	20.80	20.85	28.07	0.6412
20	1	49		20.82	20.78	21.01		
20	1	99		20.78	20.75	21.16		
20	50	0		20.03	19.91	20.13		
20	50	24		20.04	20.01	20.17		
20	50	50		20.03	19.80	20.21		
20	100	0		20.00	19.98	20.16		
20	1	0	16-QAM	20.05	19.82	19.97	27.09	0.5117
20	1	49		19.86	19.85	20.07		
20	1	99		19.78	19.75	20.18		
20	50	0		19.02	18.99	19.03		
20	50	24		19.04	19.01	19.16		
20	50	50		19.00	18.91	19.21		
20	100	0		19.00	18.99	19.15		
20	1	0	64-QAM	18.78	18.61	18.70	25.88	0.3873
20	1	49		18.59	18.58	18.80		
20	1	99		18.52	18.52	18.97		
20	50	0		18.03	17.89	18.10		
20	50	24		18.03	17.82	18.17		
20	50	50		18.01	17.99	18.19		
20	100	0		18.02	17.98	18.07		
Limit	EIRP < 2W			Result			Pass	



Appendix B. Test Results of Radiated Test

<External Antenna>

LTE Band 5

LTE Band 5 / 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	1648	-57.54	-13	-44.54	-66.89	-61	3.88	9.49	H
	2472	-52.02	-13	-39.02	-65.59	-55.61	4.80	10.54	H
	3296	-59.13	-13	-46.13	-74.98	-63.6	5.55	12.18	H
									H
									H
									H
	1648	-53.88	-13	-40.88	-63.35	-57.34	3.88	9.49	V
	2472	-51.67	-13	-38.67	-65.58	-55.26	4.80	10.54	V
	3296	-58.22	-13	-45.22	-74.54	-62.69	5.55	12.18	V
									V
									V
									V
Middle	1664	-55.58	-13	-42.58	-65	-59.11	3.90	9.58	H
	2496	-50.00	-13	-37.00	-63.52	-53.62	4.83	10.59	H
	3328	-59.19	-13	-46.19	-75.02	-63.77	5.58	12.31	H
									H
									H
									H
	1664	-54.01	-13	-41.01	-63.55	-57.54	3.90	9.58	V
	2496	-49.99	-13	-36.99	-63.94	-53.61	4.83	10.59	V
	3328	-58.84	-13	-45.84	-75.16	-63.42	5.58	12.31	V
									V
									V
									V



Highest	1680	-55.82	-13	-42.82	-65.31	-59.43	3.92	9.68	H
	2520	-47.42	-13	-34.42	-60.98	-51.14	4.85	10.72	H
	3360	-59.18	-13	-46.18	-74.99	-63.84	5.61	12.42	H
									H
									H
									H
	1680	-52.20	-13	-39.20	-61.81	-55.81	3.92	9.68	V
	2520	-46.71	-13	-33.71	-60.63	-50.43	4.85	10.72	V
	3360	-58.40	-13	-45.40	-74.72	-63.06	5.61	12.42	V
									V
									V
									V

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



LTE Band 2

LTE Band 2 / 20MHz / QPSK										
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Lowest	3702	-52.51	-13	-39.51	-69.92	-58.88	5.93	12.30	H	
	9252	-45.33	-13	-32.33	-76.54	-46.3	9.73	10.70	H	
	14805	-42.54	-13	-29.54	-76.43	-41.39	12.69	11.54	H	
										H
										H
										H
										H
	3702	-49.16	-13	-36.16	-66.62	-55.53	5.93	12.30	V	
	9252	-44.69	-13	-31.69	-74.59	-45.66	9.73	10.70	V	
	14805	-38.43	-13	-25.43	-74.54	-37.28	12.69	11.54	V	
										V
										V
										V
										V
Middle	3744	-52.12	-13	-39.12	-69.61	-58.46	5.96	12.30	H	
	9360	-45.88	-13	-32.88	-77.3	-46.72	9.78	10.62	H	
	14967	-41.84	-13	-28.84	-76.28	-41.49	12.75	12.40	H	
										H
										H
										H
										H
	3744	-50.42	-13	-37.42	-67.99	-56.76	5.96	12.30	V	
	9360	-45.92	-13	-32.92	-75.93	-46.76	9.78	10.62	V	
	14967	-37.72	-13	-24.72	-74.62	-37.37	12.75	12.40	V	
										V
										V
										V
										V



Highest	3780	-52.89	-13	-39.89	-70.45	-59.19	6.00	12.30	H
	9459	-44.40	-13	-31.40	-76.16	-45.51	9.82	10.94	H
	15129	-42.37	-13	-29.37	-77.09	-42.73	12.79	13.15	H
									H
									H
									H
									H
	3780	-48.66	-13	-35.66	-66.34	-54.96	6.00	12.30	V
	9459	-45.28	-13	-32.28	-75.96	-46.39	9.82	10.94	V
	15129	-39.39	-13	-26.39	-76.37	-39.75	12.79	13.15	V
									V
									V
									V
									V

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



LTE Band 4

LTE Band 4 / 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	-34.08	-13	-21.08	-50.65	-40.91	5.67	12.50	H	
	5130	-54.77	-13	-41.77	-76.05	-59.69	7.54	12.46	H	
	6840	-50.66	-13	-37.66	-77.99	-54.44	8.44	12.22	H	
										H
										H
										H
										H
	3420	-31.58	-13	-18.58	-48.63	-38.41	5.67	12.50	V	
	5130	-55.29	-13	-42.29	-76.58	-60.21	7.54	12.46	V	
	6840	-50.36	-13	-37.36	-77.6	-54.14	8.44	12.22	V	
										V
										V
										V
										V
Middle	3450	-35.29	-13	-22.29	-52.12	-42.1	5.69	12.50	H	
	5175	-55.45	-13	-42.45	-76.89	-60.59	7.56	12.70	H	
	6900	-50.51	-13	-37.51	-77.56	-54.03	8.48	12.00	H	
										H
										H
										H
										H
	3450	-31.28	-13	-18.28	-48.53	-38.09	5.69	12.50	V	
	5175	-55.20	-13	-42.20	-76.63	-60.34	7.56	12.70	V	
	6900	-50.09	-13	-37.09	-77.52	-53.61	8.48	12.00	V	
										V
										V
										V
										V



Highest	3474	-35.17	-13	-22.17	-52.21	-41.91	5.72	12.45	H
	5211	-55.59	-13	-42.59	-77.19	-60.98	7.58	12.97	H
	6948	-50.44	-13	-37.44	-77.25	-53.83	8.51	11.90	H
									H
									H
									H
									H
	3474	-32.35	-13	-19.35	-49.76	-39.09	5.72	12.45	V
	5211	-55.58	-13	-42.58	-77.16	-60.97	7.58	12.97	V
	6948	-49.71	-13	-36.71	-77.29	-53.1	8.51	11.90	V
									V
									V
									V
									V

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



LTE Band 38

LTE Band 38 / 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	5142	-54.91	-25	-29.91	-76.23	-59.84	7.55	12.48	H
	12859	-42.07	-25	-17.07	-76.31	-43.68	11.53	13.14	H
	15425	-40.85	-25	-15.85	-75.97	-43	12.84	15.00	H
									H
									H
									H
									H
	5142	-54.20	-25	-29.20	-75.53	-59.13	7.55	12.48	V
	12859	-39.50	-25	-14.50	-74.17	-41.11	11.53	13.14	V
	15425	-37.48	-25	-12.48	-74.28	-39.63	12.84	15.00	V
									V
									V
									V
									V
Middle	5172	-52.97	-25	-27.97	-74.4	-58.08	7.56	12.68	H
	12931	-41.80	-25	-16.80	-76.19	-43.4	11.53	13.13	H
	15516	-39.78	-25	-14.78	-74.99	-42.3	12.87	15.39	H
									H
									H
									H
									H
	5172	-52.74	-25	-27.74	-74.16	-57.85	7.56	12.68	V
	12931	-40.01	-25	-15.01	-74.85	-41.61	11.53	13.13	V
	15516	-36.38	-25	-11.38	-73.11	-38.9	12.87	15.39	V
									V
									V
									V
									V



Highest	5202	-54.45	-25	-29.45	-76	-59.79	7.57	12.91	H
	13004	-42.20	-25	-17.20	-76.73	-43.87	11.54	13.21	H
	15607	-40.25	-25	-15.25	-75.4	-43.28	12.90	15.92	H
									H
									H
									H
									H
	5202	-53.04	-25	-28.04	-74.57	-58.38	7.57	12.91	V
	13004	-39.76	-25	-14.76	-74.77	-41.43	11.54	13.21	V
	15607	-36.33	-25	-11.33	-72.91	-39.36	12.90	15.92	V
									V
									V
									V
									V

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



<Internal Antenna>

LTE Band 5

LTE Band 5 / 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	1649	-58.83	-13	-45.83	-68.18	-62.29	3.88	9.49	H
	2473	-59.89	-13	-46.89	-73.45	-63.49	4.80	10.55	H
	3298	-58.88	-13	-45.88	-74.72	-63.36	5.55	12.19	H
									H
									H
									H
	1649	-58.61	-13	-45.61	-68.09	-62.07	3.88	9.49	V
	2473	-59.99	-13	-46.99	-73.9	-63.59	4.80	10.55	V
	3298	-58.39	-13	-45.39	-74.71	-62.87	5.55	12.19	V
									V
									V
									V
Middle	1664	-55.24	-13	-42.24	-64.66	-58.77	3.90	9.58	H
	2496	-60.14	-13	-47.14	-73.66	-63.76	4.83	10.59	H
	3328	-58.42	-13	-45.42	-74.25	-63	5.58	12.31	H
									H
									H
									H
	1664	-57.83	-13	-44.83	-67.38	-61.36	3.90	9.58	V
	2496	-59.96	-13	-46.96	-73.91	-63.58	4.83	10.59	V
	3328	-58.56	-13	-45.56	-74.88	-63.14	5.58	12.31	V
									V
									V
									V



Highest	1680	-55.82	-13	-42.82	-65.31	-59.43	3.92	9.68	H
	2520	-47.42	-13	-34.42	-60.98	-51.14	4.85	10.72	H
	3360	-59.18	-13	-46.18	-74.99	-63.84	5.61	12.42	H
									H
									H
									H
	1680	-52.20	-13	-39.20	-61.81	-55.81	3.92	9.68	V
	2520	-46.71	-13	-33.71	-60.63	-50.43	4.85	10.72	V
	3360	-58.40	-13	-45.40	-74.72	-63.06	5.61	12.42	V
									V
									V
									V

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



LTE Band 2

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-56.40	-13	-43.40	-73.81	-62.77	5.93	12.30	H
	5553	-53.69	-13	-40.69	-76.27	-59.25	7.74	13.31	H
	7404	-48.29	-13	-35.29	-77.51	-50.77	8.72	11.20	H
									H
									H
									H
									H
	3702	-56.18	-13	-43.18	-73.64	-62.55	5.93	12.30	V
	5553	-53.61	-13	-40.61	-76.5	-59.17	7.74	13.31	V
	7404	-48.30	-13	-35.30	-77.43	-50.78	8.72	11.20	V
									V
									V
									V
									V
Middle	3742	-56.31	-13	-43.31	-73.79	-62.65	5.96	12.30	H
	5613	-53.14	-13	-40.14	-75.56	-58.77	7.79	13.43	H
	7484	-48.42	-13	-35.42	-77.46	-50.87	8.75	11.20	H
									H
									H
									H
									H
	3742	-56.21	-13	-43.21	-73.78	-62.55	5.96	12.30	V
	5613	-53.18	-13	-40.18	-76.07	-58.81	7.79	13.43	V
	7484	-48.38	-13	-35.38	-77.34	-50.83	8.75	11.20	V
									V
									V
									V
									V



Highest	3782	-56.48	-13	-43.48	-74.04	-62.78	6.00	12.30	H
	5673	-53.71	-13	-40.71	-76.28	-59.37	7.84	13.50	H
	7564	-48.20	-13	-35.20	-76.86	-50.87	8.79	11.46	H
									H
									H
									H
									H
	3782	-56.54	-13	-43.54	-74.22	-62.84	6.00	12.30	V
	5673	-53.01	-13	-40.01	-76.03	-58.67	7.84	13.50	V
	7564	-47.90	-13	-34.90	-77	-50.57	8.79	11.46	V
									V
									V
									V
									V

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



LTE Band 4

LTE Band 4 / 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	3422	-58.16	-13	-45.16	-74.75	-64.99	5.67	12.50	H
	5133	-55.63	-13	-42.63	-76.92	-60.55	7.55	12.47	H
	6844	-50.43	-13	-37.43	-77.73	-54.2	8.44	12.21	H
									H
									H
									H
									H
	3422	-57.83	-13	-44.83	-74.9	-64.66	5.67	12.50	V
	5133	-55.89	-13	-42.89	-77.19	-60.81	7.55	12.47	V
	6844	-50.74	-13	-37.74	-77.99	-54.51	8.44	12.21	V
									V
									V
									V
									V
Middle	3447	-57.88	-13	-44.88	-74.68	-64.69	5.69	12.50	H
	5170	-55.61	-13	-42.61	-77.03	-60.71	7.56	12.66	H
	6894	-50.30	-13	-37.30	-77.36	-53.85	8.48	12.02	H
									H
									H
									H
									H
	3447	-57.53	-13	-44.53	-74.76	-64.34	5.69	12.50	V
	5170	-55.47	-13	-42.47	-76.89	-60.57	7.56	12.66	V
	6894	-49.71	-13	-36.71	-77.11	-53.26	8.48	12.02	V
									V
									V
									V
									V



Highest	3472	-57.65	-13	-44.65	-74.67	-64.39	5.71	12.46	H
	5208	-56.13	-13	-43.13	-77.72	-61.5	7.58	12.95	H
	6944	-50.56	-13	-37.56	-77.38	-53.96	8.51	11.91	H
									H
									H
									H
									H
	3472	-57.37	-13	-44.37	-74.76	-64.11	5.71	12.46	V
	5208	-56.09	-13	-43.09	-77.6	-61.46	7.58	12.95	V
	6944	-49.89	-13	-36.89	-77.45	-53.29	8.51	11.91	V
									V
									V
									V
									V

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



LTE Band 38

LTE Band 38 / 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	5142	-55.41	-25	-30.41	-76.73	-60.34	7.55	12.48	H
	7713	-48.56	-25	-23.56	-77.17	-51.43	8.86	11.73	H
	10284	-44.71	-25	-19.71	-77.44	-45.6	10.24	11.13	H
	12855	-42.96	-25	-17.96	-77.19	-44.58	11.53	13.15	H
	15426	-41.76	-25	-16.76	-76.88	-43.92	12.85	15.00	H
									H
									H
	5142	-55.93	-25	-30.93	-77.26	-60.86	7.55	12.48	V
	7713	-48.42	-25	-23.42	-77.3	-51.29	8.86	11.73	V
	10284	-45.17	-25	-20.17	-77.35	-46.06	10.24	11.13	V
	12855	-41.86	-25	-16.86	-76.52	-43.48	11.53	13.15	V
	15426	-37.15	-25	-12.15	-73.95	-39.31	12.85	15.00	V
									V
									V
Middle	5172	-55.75	-25	-30.75	-77.18	-60.86	7.56	12.68	H
	7758	-48.36	-25	-23.36	-77.03	-51.3	8.88	11.82	H
	10344	-44.89	-25	-19.89	-77.59	-45.57	10.29	10.97	H
	12930	-43.04	-25	-18.04	-77.43	-44.64	11.53	13.13	H
	15516	-40.92	-25	-15.92	-76.13	-43.45	12.87	15.40	H
									H
									H
	5172	-55.56	-25	-30.56	-76.98	-60.67	7.56	12.68	V
	7758	-48.22	-25	-23.22	-76.97	-51.16	8.88	11.82	V
	10344	-45.35	-25	-20.35	-77.58	-46.03	10.29	10.97	V
	12930	-40.79	-25	-15.79	-75.63	-42.39	11.53	13.13	V
	15516	-35.57	-25	-10.57	-72.3	-38.1	12.87	15.40	V
									V
									V



Highest	5202	-56.11	-25	-31.11	-77.66	-61.45	7.57	12.91	H
	7803	-48.74	-25	-23.74	-77.47	-51.73	8.90	11.89	H
	10404	-44.97	-25	-19.97	-77.65	-45.43	10.34	10.80	H
	13005	-42.51	-25	-17.51	-77.05	-44.18	11.54	13.22	H
	15606	-41.32	-25	-16.32	-76.47	-44.35	12.90	15.92	H
									H
									H
	5202	-55.97	-25	-30.97	-77.5	-61.31	7.57	12.91	V
	7803	-48.63	-25	-23.63	-77.27	-51.62	8.90	11.89	V
	10404	-45.37	-25	-20.37	-77.66	-45.83	10.34	10.80	V
	13005	-41.28	-25	-16.28	-76.29	-42.95	11.54	13.22	V
	15606	-36.22	-25	-11.22	-72.8	-39.25	12.90	15.92	V
									V
									V

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