



Report No.: FG181117E

FCC RADIO TEST REPORT

FCC ID : UZ7-RTL10C1

Equipment : Tablet PC with Windows OS

Brand Name : Zebra

Model Name : RTL10C1

Applicant : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Manufacturer : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Dec. 09, 2021 and testing was performed from Dec. 24, 2021 and completed on Feb. 16, 2022. 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.

Lunis 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.)

TEL: 886-3-327-3456 Page Number : 1 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

Table of Contents

Report No. : FG181117E

: 01

His	tory o	f this test report	3
Su	mmary	y of Test Result	4
1	Gene	eral Description	5
	1.1	Product Feature of Equipment Under Test	5
	1.2	Product Specification of Equipment Under Test	6
	1.3	Modification of EUT	6
	1.4	Maximum ERP Power	6
	1.5	Testing Site	7
	1.6	Applied Standards	7
2	Test	Configuration of Equipment Under Test	8
	2.1	Test Mode	8
	2.2	Connection Diagram of Test System	8
	2.3	Support Unit used in test configuration and system	9
	2.4	Frequency List of Low/Middle/High Channels	9
3	Cond	lucted Test Items	10
	3.1	Measuring Instruments	10
	3.2	Conducted Output Power Measurement and ERP	11
4	Radia	ated Test Items	12
	4.1	Measuring Instruments	12
	4.2	Radiated Spurious Emission	14
5	List o	of Measuring Equipment	15
6	Unce	rtainty of Evaluation	16
Аp	pendi	x A. Test Results of Conducted Test	
•		x B. Test Results of Radiated Test	
Аp	pendi	x C. Test Setup Photographs	

TEL: 886-3-327-3456 Page Number : 2 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

History of this test report

Report No. : FG181117E

Report No.	Version	Description	Issued Date
FG181117E	01	Initial issue of report	Feb. 21, 2022

TEL: 886-3-327-3456 Page Number : 3 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

Summary of Test Result

Report No.: FG181117E

Report Clause	Ref Std. Clause	Test Items	Remark	
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §90.210 (n)	Emission Mask	-	See Note
-	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	-	See Note
-	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See Note
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 6.27 dB at 1584.000 MHz

Remark: The module (Model: RM505Q-AE) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
 - It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- 2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

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

Reviewed by: Wei Chen Report Producer: Vivian Hsu

TEL: 886-3-327-3456 Page Number : 4 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature
Equipment	Tablet PC with Windows OS
Brand Name	Zebra
Model Name	RTL10C1
FCC ID	UZ7-RTL10C1
Sample 1	XPAD
Sample 2	XSLATE
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	Windows 10 Pro
MFD	18OCT21
EUT Stage	Identical Prototype

Report No. : FG181117E

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

Specification of Accessories									
Adaptor with CLA cable	Brand Name	Zebra	Model Number	ADP-65JH HB					
Battery	Brand Name	ZEBRA	Model Number	XLBM1					
Power cord	Brand Name	Zebra	Model Number	450040					

Supported Unit Used in Test Configuration and System								
Keyboard	Brand Name	Zebra	Model Number	L10-KB				
98 Whr Extended Battery (Certified)	Brand Name	Zebra	Model Number	XLBE1				
AEI LONG RANGE RFID MODULE	Brand Name	Zebra	Model Number	M6E-MICRO				
PASSIVE SHORT STYLUS	Brand Name	Zebra	Model Number	440007				
ET8X MPP 2.0 ACTIVE STYLUS WITH 5 REPLACEMENT TIPS. AAAA BATTERY INCLUDED		Zebra	Model Number	SG-ET8X-STYLUS1-01				

TEL: 886-3-327-3456 Page Number : 5 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency	790.5 MHz ~ 795.5 MHz					
Rx Frequency	760.5 MHz ~ 765.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	23.16 dBm					
Antenna Type	Fixed Internal Antenna					
Antenna Gain	<main>:</main> 1.28 dBi					
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM					

Report No.: FG181117E

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

1.3 Modification of EUT

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

1.4 Maximum ERP Power

	LTE Band 14	QPSK	16QAM	64QAM	256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP (W)	Maximum ERP (W)	Maximum ERP (W)	Maximum ERP (W)	
5	790.5 ~ 795.5	0.1687	0.1429	0.1127	0.0568	
10	793	0.1694	0.1462	0.1130	0.0568	

TEL: 886-3-327-3456 Page Number : 6 of 16 FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

1.5 Testing Site

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.				
rest site No.	TH03-HY				
Test Engineer	George Chen				
Temperature	21.8~24.5℃				
Relative Humidity	52.4~58.6%				

Report No.: FG181117E

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton Site No.			
rest site No.	03CH12-HY (TAF Code: 3786)			
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu			
Temperature	22.3~26.4°ℂ			
Relative Humidity	58~66%			
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

1.6 Applied Standards

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

- + ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- **1.** All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
- **3.** The TAF code is not including all the FCC KDB listed without accreditation.

TEL: 886-3-327-3456 Page Number : 7 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

2 Test Configuration of Equipment Under Test

2.1 Test Mode

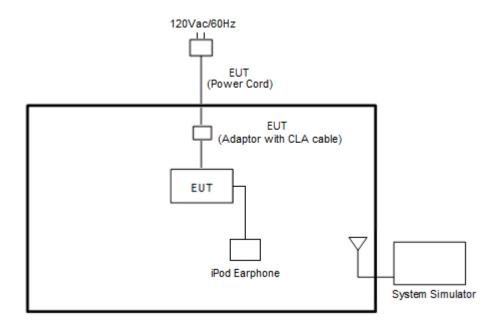
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Report No.: FG181117E

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Y Plane with Accessory for Sample 1; Z Plane with Accessory for Sample 2 as worst plane.

Conducted	David		Ва	ndwid	lth (MI	Hz)		Modulation			RB#			Test Channel			
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Max. Output Power	14	,	-	v	v	-	-	v	v	v	v	V	٧	V	٧	v	٧
E.R.P	14	,	-	v	v	-	-	٧	v	v	v	Max. Power		r	·		
Radiated																	
Spurious	14	-	-	V	V	-	-	V				٧			٧	V	٧
Emission																	
Remark	 The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions 																
	ar	are reported.															

2.2 Connection Diagram of Test System



TEL: 886-3-327-3456 Page Number : 8 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

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	

Report No.: FG181117E

2.4 Frequency List of Low/Middle/High Channels

	LTE Band 14 Channel and Frequency List											
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest								
10	Channel	-	23330	-								
10	Frequency	-	793	-								
F	Channel	23305	23330	23355								
5	Frequency	790.5	793	795.5								

TEL: 886-3-327-3456 Page Number : 9 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

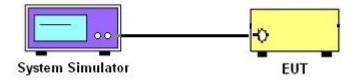
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



Report No.: FG181117E

3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

TEL: 886-3-327-3456 Page Number : 10 of 16 FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

3.2 Conducted Output Power Measurement and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

Report No.: FG181117E

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

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 base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

TEL: 886-3-327-3456 Page Number : 11 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

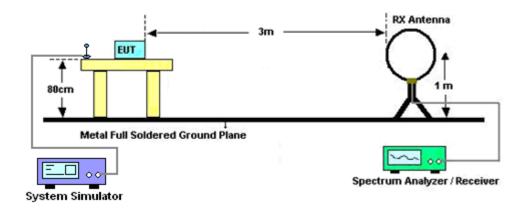
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

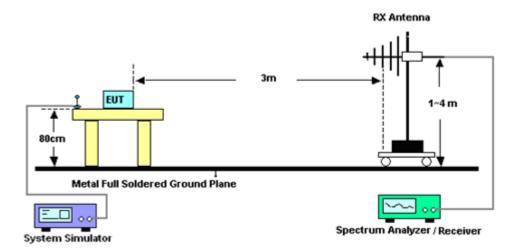
4.1.1 Test Setup

For radiated test below 30MHz



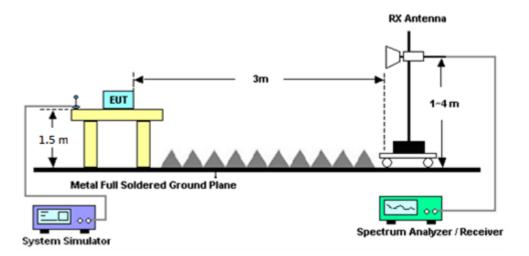
Report No.: FG181117E

For radiated test from 30MHz to 1GHz



TEL: 886-3-327-3456 Page Number : 12 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

For radiated test above 1GHz



Report No.: FG181117E

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.

TEL: 886-3-327-3456 Page Number : 13 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

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

Report No.: FG181117E

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 operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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. For the

purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative

of the type that will be used with the equipment in normal operation.

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, Sweep =

500ms, 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.

11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

TEL: 886-3-327-3456 Page Number : 14 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 13, 2022~ Jan. 29, 2022	Jan. 06, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz~18GHz	Oct. 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 24, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz~18GHz	May 18, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 17, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A023 75	1GHz~26.5GHz	May 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190024 9	1GHz~18GHz	Dec. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010B	MY602405 20	10Hz~44GHz	Dec. 23, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 22, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 11, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-108 0-1200-15000 -60SS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jul. 16, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Jan. 13, 2022~ Jan. 29, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	620166475 5	2/3/4G/LTE FDD/TDD with44)/LTE-3C C DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 21, 2021	Dec. 24, 2021~ Feb. 16, 2022	Jul. 20, 2022	Conducted (TH03-HY)

Report No. : FG181117E

TEL: 886-3-327-3456 Page Number : 15 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

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))	3.10 dB
	<u> </u>

Report No.: FG181117E

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.39 dB
Confidence of 95% (U = 2Uc(y))	3.39 GB

TEL: 886-3-327-3456 Page Number : 16 of 16
FAX: 886-3-328-4978 Issued Date : Feb. 21, 2022

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power & ERP)

	LTE E	Band 14 M	aximum A	verage Po	wer [dBm]	(GT - LC =	1.28 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0			23.16			
10	1	25			23.05			
10	1	49			23.03			
10	25	0	QPSK		22.12		22.29	0.1694
10	25	12			22.13			
10	25	25			22.17			
10	50	0			22.12			
10	1	0			22.52			
10	1	25			22.45			
10	1	49			22.38			
10	25	0	16-QAM		21.12		21.65	0.1462
10	25	12			21.09			
10	25	25			21.15			
10	50	0		_	21.12	_		
10	1	0			21.38			
10	1	25			21.40			
10	1	49			21.34			
10	25	0	64-QAM		20.16		20.53	0.1130
10	25	12			20.17			
10	25	25			20.19			
10	50	0			20.14			
10	1	0			18.24			
10	1	25			18.36			
10	1	49			18.36			
10	25	0	256-QAM		18.19		17.54	0.0568
10	25	12			18.29			
10	25	25			18.41			
10	50	0			18.29			
Limit		ERP < 3W			Result		Pa	ISS

Report No. : FG181117E



FCC RADIO TEST REPORT

	LTE I	Band 14 M	aximum A	verage Po	wer [dBm]	(GT - LC =	= 1.28 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0		23.14	23.10	23.09		
5	1	12		23.01	23.10	23.06		
5	1	24		23.06	23.03	23.06		
5	12	0	QPSK	22.02	22.08	22.01	22.27	0.1687
5	12	7		22.04	22.13	22.12		
5	12	13		22.13	22.14	22.18		
5	25	0		22.11	22.11	22.13		
5	1	0		22.42	22.30	22.25		
5	1	12		22.16	22.41	22.21		
5	1	24		22.38	22.30	22.22		
5	12	0	16-QAM	21.05	21.06	21.04	21.55	0.1429
5	12	7		21.02	21.05	21.16		
5	12	13		21.03	21.07	21.07		
5	25	0		21.09	21.04	21.13		
5	1	0		21.23	21.16	21.16		
5	1	12		21.29	21.39	21.16		
5	1	24		21.23	21.11	21.32		
5	12	0	64-QAM	20.09	20.16	20.03	20.52	0.1127
5	12	7		20.02	20.13	20.08		
5	12	13		20.03	20.08	20.01		
5	25	0		20.04	20.10	20.19		
5	1	0		18.32	18.28	18.07		
5	1	12		18.33	18.40	18.14		
5	1	24		18.33	18.41	18.23		
5	12	0	256-QAM	18.10	18.28	18.18	17.54	0.0568
5	12	7		18.29	18.38	18.18		
5	12	13		18.26	18.38	18.17		
5	25	0		18.30	18.39	18.14		
Limit		ERP < 3W			Result		Pa	ISS

Report No.: FG181117E

Appendix B. Test Results of Radiated Test

<Sample 1>

LTE Band 14

Report No. : FG181117E

			L	TE Band 14	/ 5MHz / QP	SK			
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)
	1576	-56.68	-42.15	-14.53	-66.41	-62.02	0.90	8.39	Н
	2368	-51.69	-13	-38.69	-65.83	-58.93	1.12	10.52	Н
	3152	-54.91	-13	-41.91	-71.03	-63.13	1.30	11.66	Н
									Н
									Н
Lowest									Н
Lowest	1576	-56.36	-42.15	-14.21	-65.56	-61.70	0.90	8.39	V
	2368	-49.49	-13	-36.49	-63.40	-56.73	1.12	10.52	V
	3152	-54.46	-13	-41.46	-71.00	-62.68	1.30	11.66	V
									V
									V
									V
	1584	-58.36	-42.15	-16.21	-68.02	-63.73	0.90	8.42	Н
	2376	-48.96	-13	-35.96	-63.04	-56.21	1.12	10.53	Н
	3160	-54.24	-13	-41.24	-70.38	-62.48	1.30	11.68	Н
									Н
									Н
Middle									Н
Middle	1584	-57.16	-42.15	-15.01	-42.15	-62.53	0.90	8.42	V
	2376	-50.56	-13	-37.56	-64.45	-57.81	1.12	10.53	V
	3160	-54.08	-13	-41.08	-70.66	-62.32	1.30	11.68	V
									V
									V
									V

TEL: 886-3-327-3456 Page Number : B1 of B6

	1584	-59.30	-42.15	-17.15	-68.96	-64.67	0.90	8.42	Н
	2384	-50.61	-13	-37.61	-64.64	-57.87	1.12	10.54	Н
	3176	-54.86	-13	-41.86	-71.04	-63.13	1.30	11.72	Н
									Н
									Н
									Н
Highest	1584	-60.23	-42.15	-18.08	-69.42	-65.60	0.90	8.42	V
	2384	-50.81	-13	-37.81	-64.71	-58.07	1.12	10.54	V
	3176	-54.27	-13	-41.27	-70.91	-62.54	1.30	11.72	V
									V
									V
									V

Report No. : FG181117E

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

TEL: 886-3-327-3456 Page Number : B2 of B6

	LTE Band 14 / 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)			
	1576	-56.48	-42.15	-14.33	-66.21	-61.82	0.90	8.39	Н			
	2368	-48.60	-13	-35.60	-62.74	-55.84	1.12	10.52	Н			
	3152	-55.07	-13	-42.07	-71.19	-63.29	1.30	11.66	Н			
									Н			
									Н			
N 4: al all a									Н			
Middle	1576	-53.18	-42.15	-11.03	-62.38	-58.52	0.90	8.39	V			
	2368	-50.77	-13	-37.77	-64.68	-58.01	1.12	10.52	V			
	3152	-54.29	-13	-41.29	-70.83	-62.51	1.30	11.66	V			
									V			
									V			
									V			

Report No. : FG181117E

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

TEL: 886-3-327-3456 Page Number: B3 of B6

<Sample 2>

LTE Band 14

Report No.: FG181117E

			L	TE Band 14	/ 5MHz / QP	SK			
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)
	1576	-51.45	-42.15	-9.30	-61.17	-56.79	0.90	8.39	Н
	2368	-54.52	-13	-41.52	-68.67	-61.76	1.12	10.52	Н
	3152	-55.21	-13	-42.21	-71.33	-63.43	1.30	11.66	Н
									Н
									Н
Lowest									Н
Lowest	1576	-48.85	-42.15	-6.70	-58.05	-54.19	0.90	8.39	V
	2368	-51.35	-13	-38.35	-65.25	-58.59	1.12	10.52	V
	3152	-54.30	-13	-41.30	-70.84	-62.52	1.30	11.66	V
									V
									V
									V
	1584	-54.29	-42.15	-12.14	-63.97	-59.66	0.90	8.42	Н
	2376	-52.51	-13	-39.51	-66.60	-59.76	1.12	10.53	Н
	3160	-54.67	-13	-41.67	-70.82	-62.91	1.30	11.68	Н
									Н
									Н
NA: -I -II -									Н
Middle	1584	-48.42	-42.15	-6.27	-57.62	-53.79	0.90	8.42	V
	2376	-50.47	-13	-37.47	-64.36	-57.72	1.12	10.53	V
	3160	-54.24	-13	-41.24	-70.83	-62.48	1.30	11.68	V
									V
									V
									V

TEL: 886-3-327-3456 Page Number : B4 of B6

	1584	-55.04	-42.15	-12.89	-64.70	-60.41	0.90	8.42	Н
	2384	-54.16	-13	-41.16	-68.19	-61.42	1.12	10.54	Н
	3176	-54.45	-13	-41.45	-70.63	-62.72	1.30	11.72	Н
									Н
									Н
									Н
Highest	1584	-51.06	-42.15	-8.91	-60.25	-56.43	0.90	8.42	V
	2384	-50.85	-13	-37.85	-64.75	-58.11	1.12	10.54	V
	3176	-53.88	-13	-40.88	-70.52	-62.15	1.30	11.72	V
									V
									V
									V

Report No. : FG181117E

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

TEL: 886-3-327-3456 Page Number : B5 of B6

			Ľ	TE Band 14	/ 10MHz / QF	PSK	LTE Band 14 / 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)										
	1576	-55.18	-42.15	-13.03	-64.9	-60.52	0.90	8.39	Н										
	2368	-52.39	-13	-39.39	-66.54	-59.63	1.12	10.52	Н										
	3152	-54.56	-13	-41.56	-70.68	-62.78	1.30	11.66	Н										
									Н										
									Н										
NA: -I -II -									Н										
Middle	1576	-50.82	-42.15	-8.67	-60.02	-56.16	0.90	8.39	V										
	2368	-49.20	-13	-36.20	-63.1	-56.44	1.12	10.52	V										
	3152	-54.37	-13	-41.37	-70.91	-62.59	1.30	11.66	V										
									V										
									V										
									V										

Report No. : FG181117E

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

TEL: 886-3-327-3456 Page Number : B6 of B6