



# FCC RADIO TEST REPORT

FCC ID	: UZ7-ET85B
Equipment	: 2 in 1 Tablet PC with Windows OS
Brand Name	: Zebra
Model Name	: ET85B
Applicant	<ul> <li>Zebra Technologies Corporation</li> <li>1 Zebra Plaza, Holtsville, NY 11742</li> </ul>
Manufacturer	<ul> <li>Zebra Technologies Corporation</li> <li>1 Zebra Plaza, Holtsville, NY 11742</li> </ul>
Standard	: FCC 47 CFR Part 2, Part 27(D)

The product was received on Aug. 27, 2021 and testing was performed from Sep. 03, 2021 to Nov. 16, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu Sporton International Inc. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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# History of this test report

Report No.	Version	Description	Issued Date
FG162601C	01	Initial issue of report	Dec. 08, 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	-				
-	-	Peak-to-Average Ratio	-	See Note				
3.3	§27.50 (a)(3)	Effective Isotropic Radiated Power	Pass	-				
-	§2.1049	Occupied Bandwidth	-	See Note				
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	-	See Note				
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	-	See Note				
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	-	See Note				
4.2	§2 1053		Pass	Under limit 11.75 dB at 6918.000 MHz				
	Note: The module (Model: EM121R-GL) makes no difference after verifying output power, this report reuses test data from the module report.							

#### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

#### Reviewed by: Wei Chen Report Producer: Lucy Wu

# **1** General Description

### 1.1 Product Feature of Equipment Under Test

Product Feature					
Equipment	2 in 1 Tablet PC with Windows OS				
Brand Name	Zebra				
Model Name	ET85B				
FCC ID	UZ7-ET85B				
EUT supports Radios application	WCDMA/HSPA/LTE/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	DV				
SW Version	Windows 10 Pro				
MFD	2021/Feb.				
EUT Stage	Identical Prototype				

Remark: The above EUTs information was declared by manufacturer.

Specification of Accessories								
Adaptor with CLA cable	Brand Name	Zebra	Model Number	ADP-45XE B				
Battery	Brand Name	ZEBRA	Model Number	BT-000433				
Power cord	Brand Name	Zebra	Model Number	450040				

Supported Unit used in test configuration and system									
CAC Reader	Brand Name	Zebra	Model Number	ZBK-ET8X-SMARTCARD-01					
Keyboard	Brand Name	Zebra	Model Number	KBD-ET8X					

# 1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard						
Tx Frequency	2307.5 MHz ~ 2312.5 MHz					
Rx Frequency	2352.5 MHz ~ 2357.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	21.30 dBm					
Antenna Type	Fixed Internal Antenna					
Antenna Gain	<b><main>:</main></b> 1.48 dBi					
Antenna Gam	<b><aux.>:</aux.></b> 1.36 dBi					
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM (Downlink Only)					

**Remark:** The above EUT's information 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 EIRP Power

	LTE Band 30	QPSK	16QAM	64QAM Maximum EIRP(W)		
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)			
5	2307.5~2312.5	0.1892	0.1600	0.1253		
10	2310	0.1897	0.1585	0.1250		

### 1.5 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory				
	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.				
Test Site No.	TH03-HY				
Test Engineer	Bryant Liu				
Temperature (°C )         22.9~23.1					
Relative Humidity (%) 53~56					
Test Site	Sporton International Inc. Wensan Laboratory				
	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,				
Test Site Location	Taoyuan City 333010, Taiwan (R.O.C.)				
	TEL: +886-3-327-0868				
	FAX: +886-3-327-0855				
Test Site No.	Sporton Site No.				
Test Site NO.	03CH12-HY (TAF Code: 3786)				
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu				
Temperature (°C)	22.3~26.4				
Relative Humidity (%)	58~66				
Demesk	The Radiated Spurious Emission test item subcontracted to Sporton				
Remark	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 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- + FCC KDB 414788 D01 Radiated Test Site v01r01

#### Remark:

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

# 2 Test Configuration of Equipment Under Test

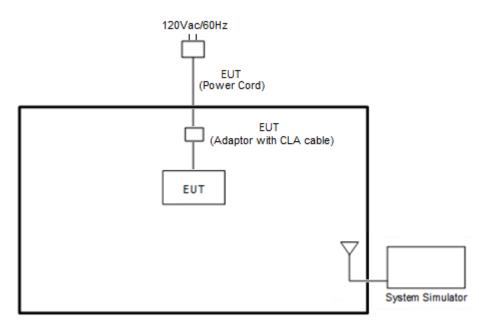
# 2.1 Test Mode

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

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

Test kerne	Donal		Bandwidth (MHz)				Modulation			RB #			Test Channel			
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output Power	30	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
EI.R.P 30		-	-	v	v	-	-	v	v	v	Max. Power					
Radiated Spurious Emission	30	-	-	v	v	-	-	v			v			v	v	v
Remark	<ol> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandw idth is not supported.</li> <li>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 w orst case emissions are reported.</li> </ol>															

# 2.2 Connection Diagram of Test System



# 2.3 Support Unit used in test configuration and system

ľ	tem	Equipment Brand Name		Model No.	FCC ID	Data Cable	Power Cord	
	1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m	

# 2.4 Frequency List of Low/Middle/High Channels

	LTE Band 30 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest							
10	Channel	-	27710	-							
10	Frequency	-	2310	-							
F	Channel	27685	27710	27735							
5	Frequency	2307.5	2310	2312.5							



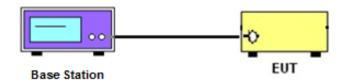
### 3 Conducted Test Items

### 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 Measurement

### 3.2.1 Description of the Conducted Output Power 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.

### 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.



### 3.3 Effective Isotropic Radiated Power

### 3.3.1 Description of Effective Isotropic Radiated Power

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Remark: EIRP use worst case measure the total power to cover per 5MHz Power.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , 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

### 3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Determine the EIRP by adding the effective antenna gain to the adjusted power level.



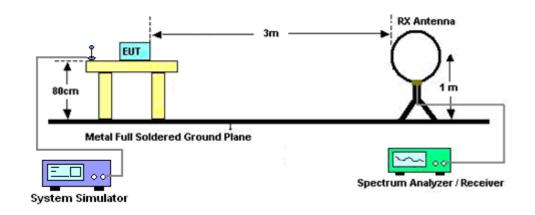
### 4 Radiated Test Items

### 4.1 Measuring Instruments

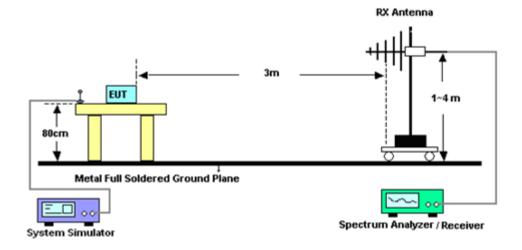
See list of measuring instruments of this test report.

### 4.1.1 Test Setup

#### For radiated test below 30MHz

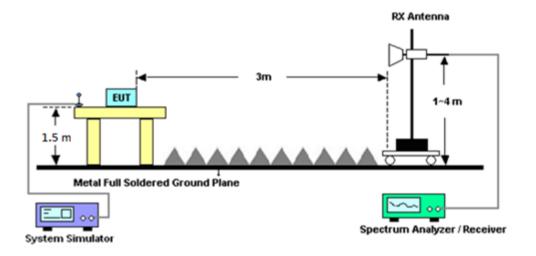


#### For radiated test from 30MHz to 1GHz

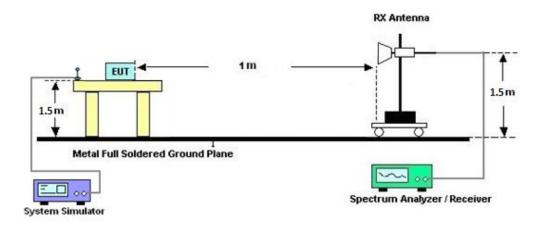




#### For radiated test from 1GHz to 18GHz



#### 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 70 + 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 height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain ERP (dBm) = EIRP - 2.15

9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

= P(W)- [70 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)

= -40dBm.



# 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde &	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Sep. 03, 2021~	Jan. 03, 2022	Radiation
	Schw arz	CBL 6111D &			,	Sep. 17, 2021	,	(03CH12-HY)
Bilog Antenna	TESEQ	00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Sep. 03, 2021~ Sep. 17, 2021	Oct. 10, 2021	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Sep. 03, 2021~ Sep. 17, 2021	Oct. 10, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 8	1GHz~18GHz	Nov. 23, 2020	Sep. 03, 2021~ Sep. 17, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz~18GHz	May 18, 2021	Sep. 03, 2021~ Sep. 17, 2021	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Nov. 19, 2020	Sep. 03, 2021~ Sep. 17, 2021	Nov. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 21, 2021	Sep. 03, 2021~ Sep. 17, 2021	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Sep. 03, 2021~ Sep. 17, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A023 75	1GHz~26.5GHz	May 25, 2021	Sep. 03, 2021~ Sep. 17, 2021	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190024 9	1GHz~18GHz	Dec. 05, 2020	Sep. 03, 2021~ Sep. 17, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Sep. 03, 2021~ Sep. 17, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Jan. 15, 2021	Sep. 03, 2021~ Sep. 17, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
Signal Generator	Rohde & Schw arz	SMB100A	101107	100kHz~40GHz	Dec. 04, 2020	Sep. 03, 2021~ Sep. 17, 2021	Dec. 03, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY 9837/4 PE	9kHz~30MHz	Mar. 11, 2021	Sep. 03, 2021~ Sep. 17, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Sep. 03, 2021~ Sep. 17, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Sep. 03, 2021~ Sep. 17, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Sep. 03, 2021~ Sep. 17, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainw right	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Sep. 03, 2021~ Sep. 17, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainw right	WHKX12-108 0-1200-15000 -60SS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Sep. 03, 2021~ Sep. 17, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainw right	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Sep. 03, 2021~ Sep. 17, 2021	Jul. 11, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Sep. 03, 2021~ Sep. 17, 2021	Oct. 01, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 03, 2021~ Sep. 17, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Sep. 03, 2021~ Sep. 17, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 03, 2021~ Sep. 17, 2021	N/A	Radiation (03CH12-HY)
Softw are	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Sep. 03, 2021~ Sep. 17, 2021	N/A	Radiation (03CH12-HY)

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Instrument	Brand Name	ModelNo.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	620166475 5	2/3/4G/LTE FDD/TDD w ith44)/LTE-3C C DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 21, 2021	Nov. 16, 2021	Jul. 20, 2022	Conducted (TH03-HY)



# 6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.10 dB
Confidence of 95% (U = 2Uc(y))	3. IU UB

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

Measuring Uncertainty for a Level of	3.39 dB
Confidence of 95% (U = 2Uc(y))	5.59 UB

#### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	4.24 dP
Confidence of 95% (U = 2Uc(y))	4.34 dB



# Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & EIRP)

	LTE E	Band 30 M	aximum A	verage Po	wer [dBm]	(GT - LC =	= 1.48 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0			21.30			
10	1	25			21.25			
10	1	49			21.25			
10	25	0	QPSK		20.30		22.78	0.1897
10	25	12			20.32			
10	25	25			20.31			
10	50	0			20.34			
10	1	0			20.46			
10	1	25			20.52			
10	1	49			20.50			
10	25	0	16-QAM	-	19.32	-	22.00	0.1585
10	25	12			19.34			
10	25	25			19.33			
10	50	0			19.35			
10	1	0			19.25			
10	1	25			19.49			
10	1	49			19.48			
10	25	0	64-QAM		18.33		20.97	0.1250
10	25	12			18.37			
10	25	25			18.36			
10	50	0			18.36			
Limit	EIRP	< 250mW/	5MHz		Result		Pa	ISS



#### Report No. : FG162601C

	LTE E	Band 30 M	aximum A	verage Po	wer [dBm]	(GT - LC =	= 1.48 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0		21.17	21.29	21.16		
5	1	12		21.23	21.27	21.28		
5	1	24		21.18	21.23	21.22		
5	12	0	QPSK	20.32	20.32	20.34	22.77	0.1892
5	12	7		20.31	20.34	20.40		
5	12	13	-	20.32	20.33	20.37		
5	25	0		20.29	20.39	20.37		
5	1	0		20.41	20.45	20.40		
5	1	12	-	20.50	20.51	20.56	22.04	0.1600
5	1	24		20.40	20.47	20.49		
5	12	0	16-QAM	19.28	19.34	19.40		
5	12	7		19.34	19.39	19.37		
5	12	13		19.33	19.38	19.37		
5	25	0		19.33	19.40	19.37		
5	1	0		19.19	19.45	19.48		
5	1	12		19.48	19.50	19.50		
5	1	24		19.41	19.43	19.45		
5	12	0	64-QAM	18.32	18.42	18.38	20.98	0.1253
5	12	7		18.37	18.48	18.46		
5	12	13		18.34	18.42	18.45		
5	25	0		18.34	18.38	18.39		
Limit	EIRP	< 250mW/	5MHz		Result		Pa	SS



# Appendix B. Test Results of Radiated Test

			L	TE Band 30	/ 5MHz / QP	SK			
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)
	4608	-62.74	-40	-22.74	-57.16	-73.97	1.45	12.68	Н
	6918	-53.66	-40	-13.66	-52.98	-63.94	1.73	12.01	Н
	9225	-61.19	-40	-21.19	-64.1	-70.81	2.16	11.78	Н
	11529	-57.24	-40	-17.24	-64.66	-66.37	2.45	11.58	Н
	13833	-55.19	-40	-15.19	-65.8	-64.70	2.86	12.37	Н
Lowoot									Н
Lowest	4608	-63.52	-40	-23.52	-57.15	-74.75	1.45	12.68	V
	6918	-59.84	-40	-19.84	-58.72	-70.12	1.73	12.01	V
	9225	-59.95	-40	-19.95	-63.86	-69.57	2.16	11.78	V
	11529	-60.36	-40	-20.36	-67.68	-69.49	2.45	11.58	V
	13833	-56.11	-40	-16.11	-67.05	-65.62	2.86	12.37	V
									V
	4614	-61.95	-40	-21.95	-56.38	-73.17	1.46	12.68	Н
	6924	-52.94	-40	-12.94	-52.3	-63.22	1.73	12.01	н
	9234	-61.21	-40	-21.21	-64.11	-70.82	2.16	11.77	Н
	11538	-56.71	-40	-16.71	-64.13	-65.86	2.45	11.61	Н
	13847	-54.73	-40	-14.73	-65.3	-64.22	2.86	12.35	Н
N 4: -l -ll -									н
Middle	4614	-63.32	-40	-23.32	-56.98	-74.54	1.46	12.68	V
	6924	-59.26	-40	-19.26	-58.17	-69.54	1.73	12.01	V
	9234	-60.15	-40	-20.15	-64.06	-69.76	2.16	11.77	V
	11538	-59.75	-40	-19.75	-67.08	-68.90	2.45	11.61	V
	13847	-56.44	-40	-16.44	-67.33	-65.93	2.86	12.35	V
									V

# LTE Band 30



	4620	-63.05	-40	-23.05	-57.5	-74.27	1.46	12.68	Н
	6930	-53.29	-40	-13.29	-52.66	-63.56	1.73	12.00	Н
	9243	-61.23	-40	-21.23	-64.12	-70.82	2.16	11.76	Н
	11556	-57.13	-40	-17.13	-64.58	-66.33	2.46	11.66	Н
Lishaat									Н
Highest	4620	-64.10	-40	-24.10	-57.78	-75.32	1.46	12.68	V
	6930	-59.28	-40	-19.28	-58.2	-69.55	1.73	12.00	V
	9243	-60.26	-40	-20.26	-64.18	-69.85	2.16	11.76	V
	11556	-60.67	-40	-20.67	-68.06	-69.87	2.46	11.66	V
									V

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



			Ľ	TE Band 30	/ 10MHz / QF	PSK			
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)
	4614	-58.68	-40	-18.68	-53.11	-69.90	1.46	12.68	н
	6918	-51.75	-40	-11.75	-51.07	-62.03	1.73	12.01	н
	9225	-60.99	-40	-20.99	-63.9	-70.61	2.16	11.78	н
	11529	-57.84	-40	-17.84	-65.26	-66.97	2.45	11.58	н
	13833	-54.66	-40	-14.66	-65.27	-64.17	2.86	12.37	н
NA <sup>1</sup> I.U.									н
Middle	4614	-63.90	-40	-23.90	-57.56	-75.12	1.46	12.68	V
	6918	-59.07	-40	-19.07	-57.95	-69.35	1.73	12.01	V
	9225	-58.99	-40	-18.99	-62.9	-68.61	2.16	11.78	V
	11529	-60.94	-40	-20.94	-68.26	-70.07	2.45	11.58	V
	13833	-56.48	-40	-16.48	-67.42	-65.99	2.86	12.37	V
									V

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