

## Partial FCC Test Report

### (PART 27)

**Report No.:** RF180629C15-8

**FCC ID:** O57T77W980

**Test Model:** T77W980

**Received Date:** Jun. 23, 2018

**Test Date:** Aug. 09, 2018

**Issued Date:** Aug. 16, 2018

**Applicant:** Lenovo(Shanghai) Electronics Technology Co., Ltd.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan ( R.O.C )

**Test Location (1):** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**Test Location (2):** No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan, R.O.C

**FCC Registration /  
Designation Number:** 427177 / TW0011



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## Table of Contents

<b>Release Control Record .....</b>	<b>3</b>
<b>1 Certificate of Conformity .....</b>	<b>4</b>
<b>2 Summary of Test Results.....</b>	<b>5</b>
2.1 Measurement Uncertainty.....	5
2.2 Test Site And Instruments .....	6
<b>3 General Information .....</b>	<b>7</b>
3.1 General Description of EUT .....	7
3.2 Configuration of System Under Test .....	8
3.2.1 Description of Support Units .....	8
3.3 Test Mode Applicability and Tested Channel Detail .....	8
3.4 EUT Operating Conditions .....	9
3.5 General Description of Applied Standards.....	9
<b>4 Test Types and Results .....</b>	<b>10</b>
4.1 Output Power Measurement.....	10
4.1.1 Limits of Output Power Measurement .....	10
4.1.2 Test Procedures.....	10
4.1.3 Test Setup.....	11
4.1.4 Test Results .....	12
4.2 Radiated Emission Measurement.....	15
4.2.1 Limits of Radiated Emission Measurement .....	15
4.2.2 Test Procedure .....	15
4.2.3 Deviation from Test Standard .....	15
4.2.4 Test Setup.....	16
4.2.5 Test Results .....	17
<b>5 Pictures of Test Arrangements.....</b>	<b>23</b>
<b>Appendix – Information on the Testing Laboratories .....</b>	<b>24</b>

### Release Control Record

Issue No.	Description	Date Issued
RF180629C15-8	Original Release	Aug. 16, 2018

## 1 Certificate of Conformity

**Product:** Gigabit RF Card

**Brand:** FOXCONN

**Test Model:** T77W980

**Sample Status:** Identical Prototype

**Applicant:** Lenovo(Shanghai) Electronics Technology Co., Ltd.

**Test Date:** Aug. 09, 2018

**Standards:** FCC Part 27, Subpart C, D

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**                     Gina Liu                    , **Date:**                     Aug. 16, 2018                      
Gina Liu / Specialist

**Approved by :**                     Dylan Chiou                    , **Date:**                     Aug. 16, 2018                      
Dylan Chiou / Project Engineer

## 2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(a)(3)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
2.1051 27.53(a)(4)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(a)(4)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(a)(4)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.52 dB at 4620.00 MHz.

### Note:

This report is a Class II change Partial report. Therefore, only test item of Equivalent Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RF180503E05-2 for module (Brand: FOXCONN, Model: T77W980)

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ( $\pm$ )
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

## 2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 16, 2018	Mar. 15, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
Fixed Attenuator Mini-Circuits	BW-N4W5+	PAD-ATT4-01	Jan. 29, 2018	Jan. 28, 2019
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier Agilent	310N	187226	Jun. 19, 2018	Jun. 18, 2019
Preamplifier Agilent	83017A	MY39501357	Jun. 19, 2018	Jun. 18, 2019
HORN Antenna Schwarzbeck	BBHA 9120D	BBHA 9120D	Dec. 12, 2017	Dec. 11, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RF C-SMS-100-SMS- 120+RFC-SMS-1 00-SMS-400)	Jun. 19, 2018	Jun. 18, 2019
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RF C-SMS-100-SMS- 24)	Jun. 19, 2018	Jun. 18, 2019
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 28, 2017	Dec. 27, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 08, 2017	Sep. 07, 2018
Digital Multimeter Fluke	87-III	70360742	Jun. 29, 2018	Jun. 28, 2018

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HsinTien Chamber 1.
  3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
  4. The IC Site Registration No. is IC7450I-1.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	Gigabit RF Card	
<b>Brand</b>	FOXCONN	
<b>Test Model</b>	T77W980	
<b>Status of EUT</b>	Identical Prototype	
<b>Power Supply Rating</b>	20 / 15 / 9 / 5 Vdc (adapter) 7.68 Vdc (Li-ion battery)	
<b>Modulation Type</b>	QPSK, 16QAM, 64QAM	
<b>Frequency Range</b>	LTE Band 30 (Channel Bandwidth: 5 MHz)	2307.5 ~ 2312.5 MHz
	LTE Band 30 (Channel Bandwidth: 10 MHz)	2310 MHz
<b>Max. EIRP Power</b>	LTE Band 30 (Channel Bandwidth: 5 MHz)	174.86 mW/5MHz
	LTE Band 30 (Channel Bandwidth: 10 MHz)	179.35 mW/5MHz
<b>Antenna Type</b>	Refer to Note as below	
<b>Accessory Device</b>	Refer to Note as below	
<b>Data Cable Supplied</b>	Refer to Note as below	

Note:

- The change list for EUT is listed as below.
  - Adding a specific host.
  - Changing antenna.
  - Changing SW (to disable LTE Band 71 and to disable CA\_38C for configurations of CA).
- The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	Lenovo	ADLX45YLC3D	I/P: 100-240 Vac, 50-60 Hz, 1.3 A O/P: 20 Vdc, 2.25 A / 15 Vdc, 3A / 9 Vdc, 2A / 5 Vdc, 2A
Battery	Lenovo	L17M4PH3	7.68 Vdc, 7680 mAh
WWAN Module	FOXCONN	T77W980	--

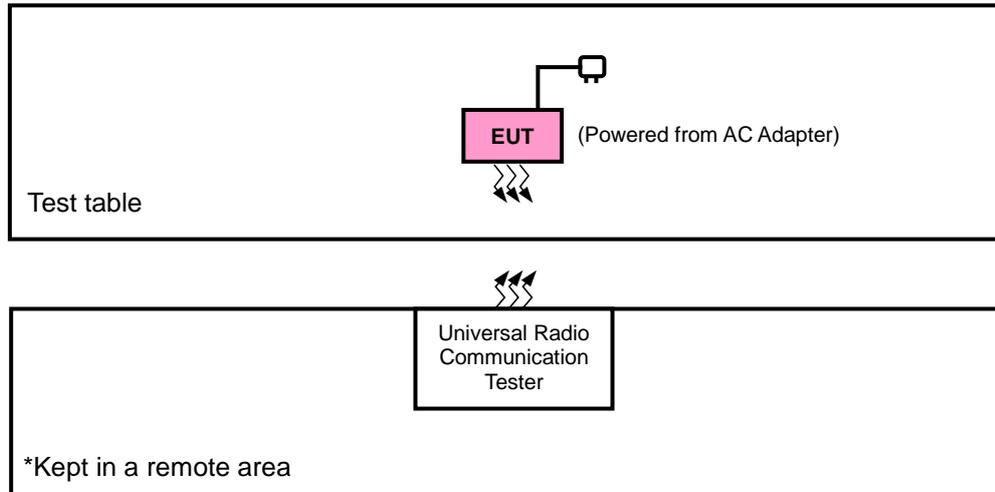
- The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model
Notebook Computer	Lenovo	Lenovo YOGA C630-13Q50*****, 81JL*****, (*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)

Antenna Type	Manufacturer	Parts Number	Antenna Gain
			LTE B30
PIFA	<b>Tablet Mode</b>		
	ACON Corporation	ANF6Y-100046 (DC330026L00)	-4.23
	<b>Laptop Mode</b>		
	ACON Corporation	ANF6Y-100046 (DC330026L00)	-1.34

- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Configuration of System Under Test



#### 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X-plane for EIRP and Y-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	27685 to 27735	27685, 27710, 27735	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset
		27710	27710	10 MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset
-	Radiated Emission Below 1GHz	27710	27710	10 MHz	QPSK	1 RB / 49 RB Offset
-	Radiated Emission Above 1GHz	27710	27710	10 MHz	QPSK	1 RB / 49 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

#### Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25 deg. C, 65 % RH	120 Vac, 60 Hz	Carles Hsiao
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Carles Hsiao

### **3.4 EUT Operating Conditions**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### **3.5 General Description of Applied Standards**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 27**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**NOTE:** All test items have been performed and recorded as per the above standards.

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Mobile and portable stations. (i) 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.

#### 4.1.2 Test Procedures

##### **EIRP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW is 5 MHz and VBW is 15 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

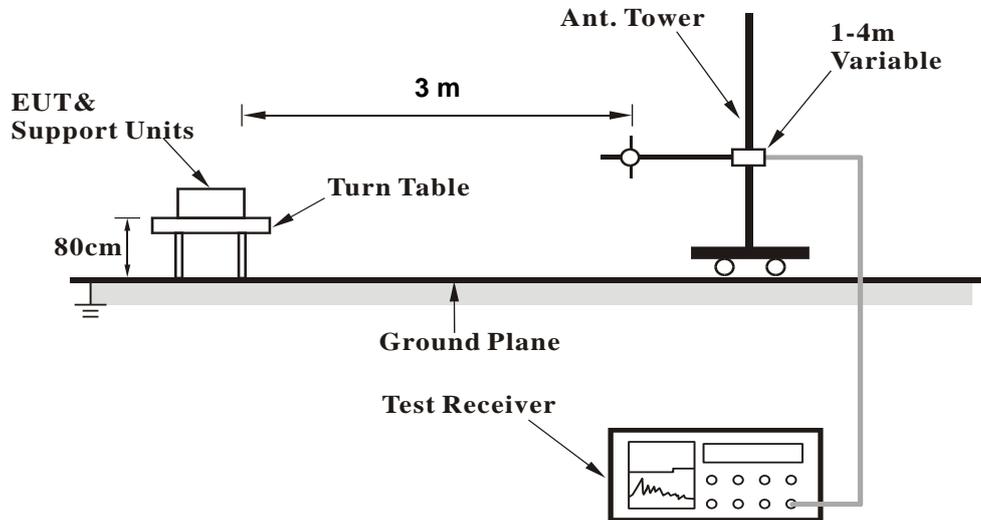
##### **Conducted Power Measurement:**

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

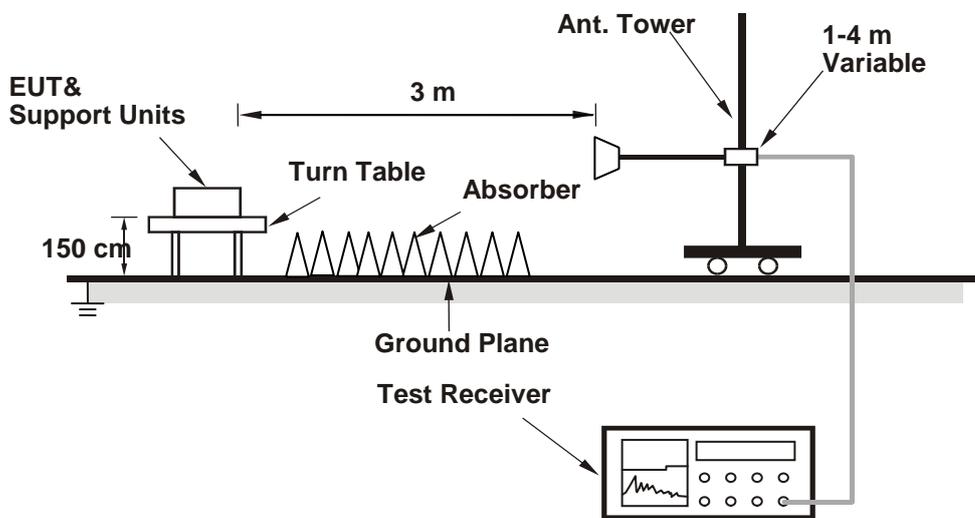
4.1.3 Test Setup

**EIRP / ERP Measurement:**

**<Radiated Emission below or equal 1 GHz>**

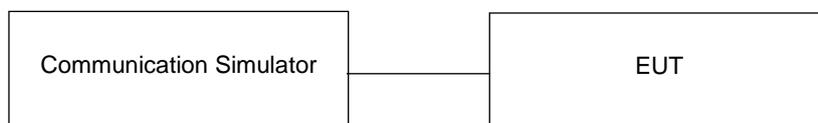


**<Radiated Emission above 1 GHz>**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

**Conducted Power Measurement:**



## 4.1.4 Test Results

**Conducted Output Power (dBm)**

LTE Band 30													
BW	MCS Index	RB Size	RB Offset	Mid	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Frequency (MHz)	2310.0	2307.5	2310.0			2312.5					
10M	QPSK	1	0	22.62	0	5M	QPSK	1	0	22.46	22.57	22.55	0
		1	24	22.55	0			1	12	22.44	22.55	22.53	0
		1	49	22.53	0			1	24	22.42	22.53	22.51	0
		25	0	21.62	1			12	0	21.50	21.61	21.59	1
		25	12	21.61	1			12	6	21.48	21.59	21.57	1
		25	25	21.58	1			12	13	21.46	21.57	21.55	1
	16QAM	50	0	21.59	1		25	0	21.47	21.58	21.56	1	
		1	0	21.59	1		16QAM	1	0	21.47	21.58	21.56	1
		1	24	21.52	1			1	12	21.45	21.56	21.54	1
		1	49	21.50	1			1	24	21.43	21.54	21.52	1
		25	0	20.59	2			12	0	20.51	20.62	20.60	2
		25	12	20.58	2			12	6	20.49	20.60	20.58	2
	25	25	20.55	2	12			13	20.47	20.58	20.56	2	
	64QAM	50	0	20.56	2		25	0	20.48	20.59	20.57	2	
		1	0	20.57	2		64QAM	1	0	20.42	20.53	20.51	2
		1	24	20.50	2			1	12	20.40	20.51	20.49	2
		1	49	20.48	2			1	24	20.38	20.49	20.47	2
		25	0	19.57	3			12	0	19.46	19.57	19.55	3
		25	12	19.56	3			12	6	19.44	19.55	19.53	3
	25	25	19.53	3	12			13	19.42	19.53	19.51	3	
	50	0	19.54	3	25		0	19.43	19.54	19.52	3		

**EIRP Power (dBm)**

LTE Band 30							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm/5MHz)	Correction Factor (dB)	EIRP Power Density (dBm/5MHz)	EIRP Power Density (mW/5MHz)	Polarization (H/V)
X	27685	2307.5	-21.89	44.24	22.35	171.71	H
	27710	2310.0	-21.77	44.20	22.43	174.86	
	27735	2312.5	-22.52	44.80	22.28	169.08	
	27685	2307.5	-24.28	44.19	19.91	97.97	V
	27710	2310.0	-24.11	44.09	19.98	99.49	
	27735	2312.5	-24.54	44.50	19.96	99.06	
Channel Bandwidth: 5 MHz / 16QAM							
X	27685	2307.5	-22.69	44.24	21.55	142.82	H
	27710	2310.0	-22.84	44.20	21.36	136.68	
	27735	2312.5	-22.99	44.80	21.81	151.74	
	27685	2307.5	-25.29	44.19	18.90	77.64	V
	27710	2310.0	-25.11	44.09	18.98	79.03	
	27735	2312.5	-25.55	44.50	18.95	78.51	
Channel Bandwidth: 5 MHz / 64QAM							
X	27685	2307.5	-23.76	44.24	20.48	111.69	H
	27710	2310.0	-23.95	44.20	20.25	105.85	
	27735	2312.5	-24.25	44.80	20.55	113.53	
	27685	2307.5	-26.30	44.19	17.89	61.53	V
	27710	2310.0	-26.12	44.09	17.97	62.63	
	27735	2312.5	-26.56	44.50	17.94	62.22	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 30							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm/5MHz)	Correction Factor (dB)	EIRP Power Density (dBm/5MHz)	EIRP Power Density (mW/5MHz)	Polarization (H/V)
X	27710	2310.0	-21.66	44.20	22.54	179.35	H
	27710	2310.0	-24.21	44.09	19.88	97.23	V
Channel Bandwidth: 10 MHz / 16QAM							
X	27710	2310.0	-22.22	44.20	21.98	157.65	H
	27710	2310.0	-25.58	44.09	18.51	70.93	V
Channel Bandwidth: 10 MHz / 64QAM							
X	27710	2310.0	-23.56	44.20	20.64	115.80	H
	27710	2310.0	-26.10	44.09	17.99	62.92	V

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

## 4.2 Radiated Emission Measurement

### 4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $70 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -40 dBm.

### 4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

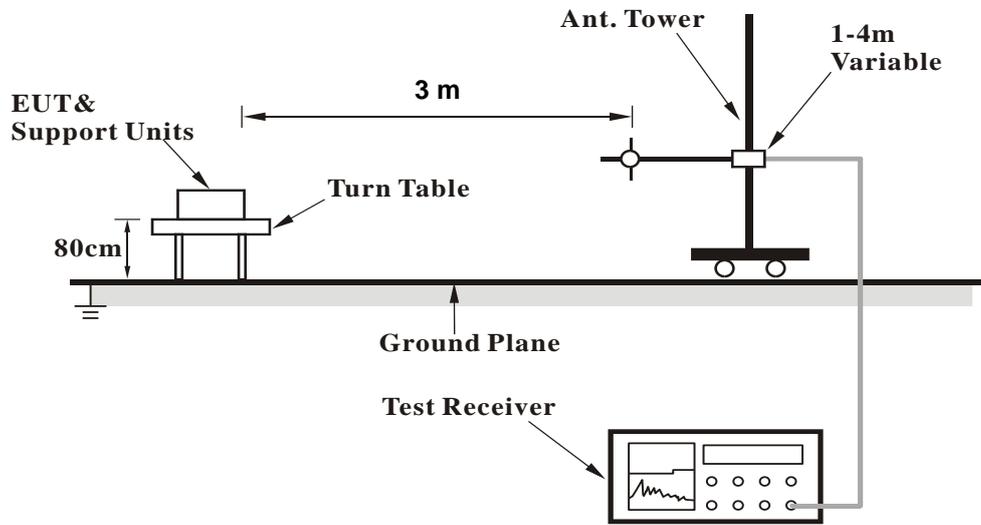
**Note:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

### 4.2.3 Deviation from Test Standard

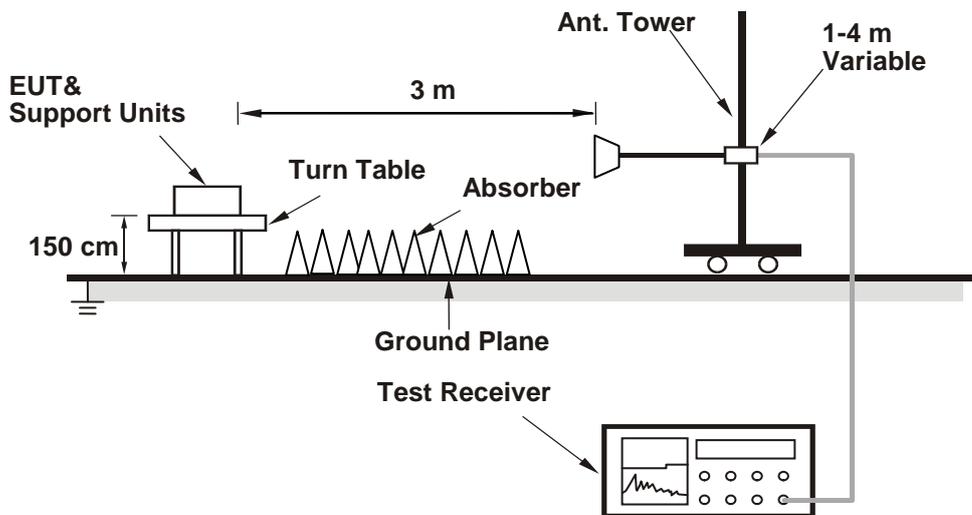
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

LTE Band 30  
 Channel Bandwidth: 10 MHz / QPSK  
 Low Channel

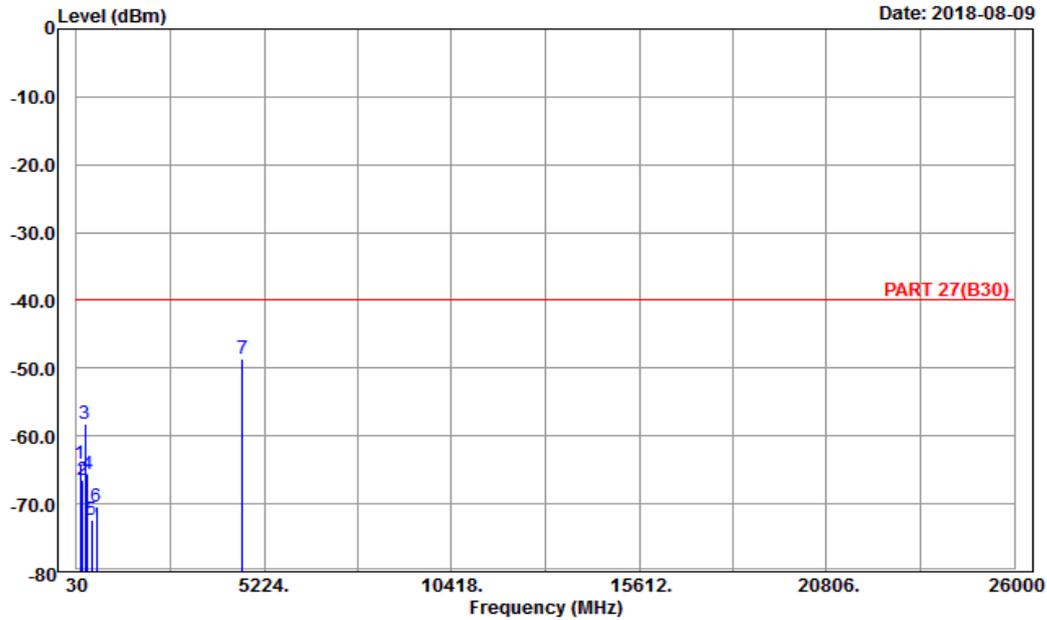


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Data: 13

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Horizontal  
 Remark : LTE\_Band 30\_Link\_CH27710  
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	138.00	-64.15	-56.47	-40.00	-24.15	-7.68	Peak
2	189.03	-66.52	-60.80	-40.00	-26.52	-5.72	Peak
3	271.65	-58.26	-52.56	-40.00	-18.26	-5.70	Peak
4	323.80	-65.67	-59.99	-40.00	-25.67	-5.68	Peak
5	444.90	-72.46	-68.72	-40.00	-32.46	-3.74	Peak
6	590.50	-70.42	-70.45	-40.00	-30.42	0.03	Peak
7 pp	4620.00	-48.52	-66.95	-40.00	-8.52	18.43	Peak

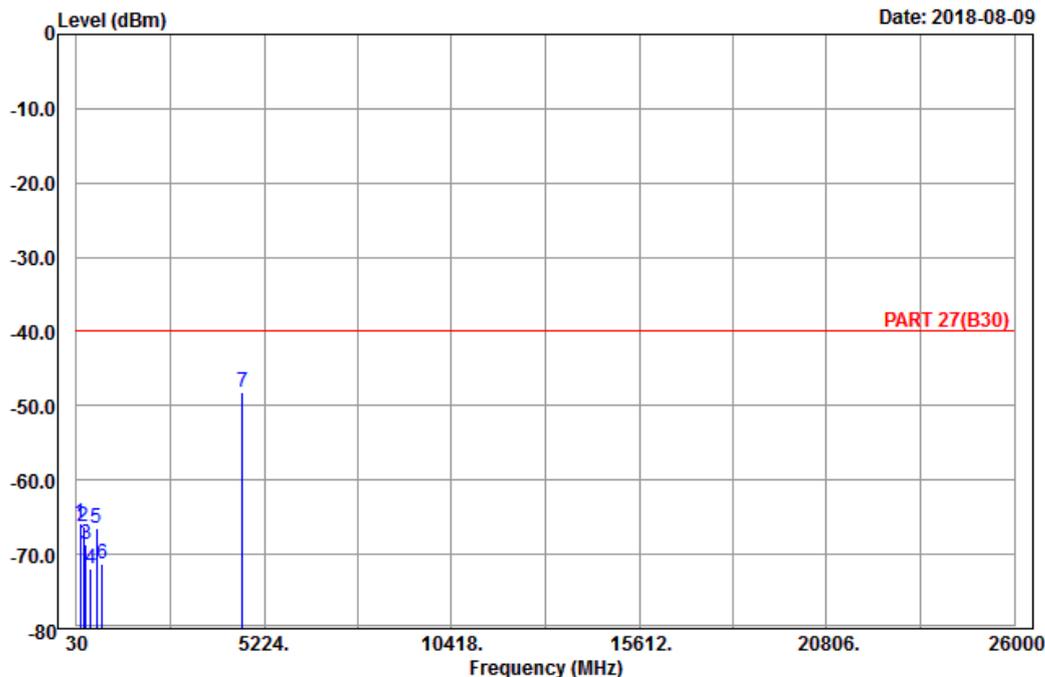


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Data: 14

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Vertical  
 Remark : LTE\_Band 30\_Link\_CH27710  
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	139.08	-65.78	-58.09	-40.00	-25.78	-7.69	Peak
2	218.19	-66.34	-60.40	-40.00	-26.34	-5.94	Peak
3	281.91	-68.66	-62.86	-40.00	-28.66	-5.80	Peak
4	426.70	-71.88	-68.54	-40.00	-31.88	-3.34	Peak
5	587.00	-66.39	-66.25	-40.00	-26.39	-0.14	Peak
6	736.80	-71.27	-70.20	-40.00	-31.27	-1.07	Peak
7 pp	4620.00	-48.11	-66.54	-40.00	-8.11	18.43	Peak

Middle Channel

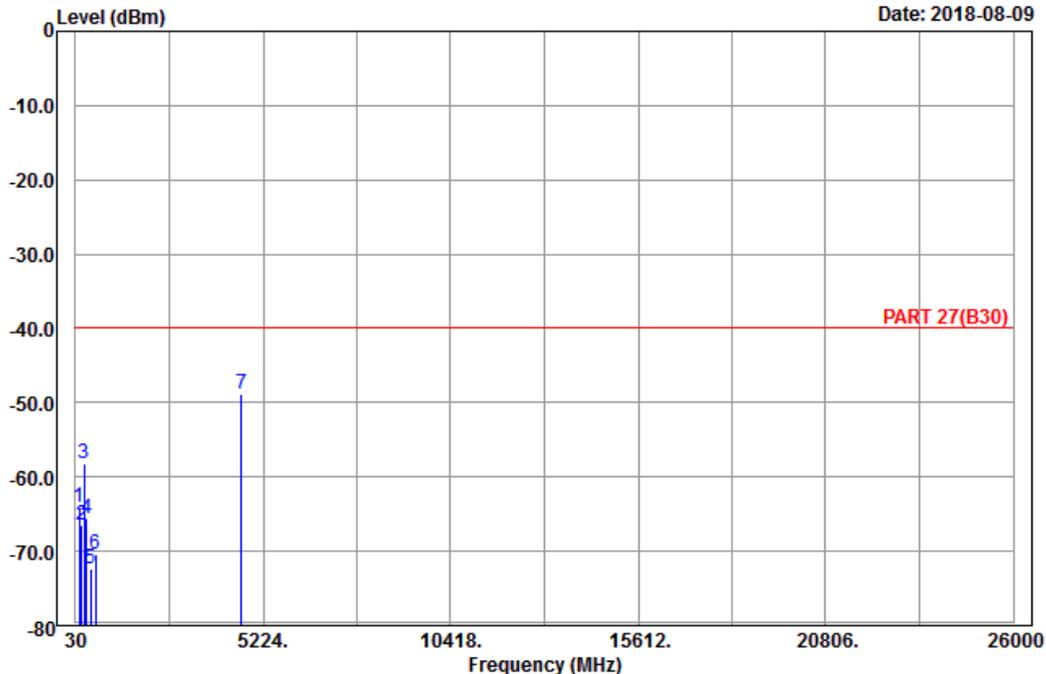


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Horizontal  
 Remark : LTE\_Band 30\_Link\_CH27710  
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit	Over	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	138.00	-64.15	-56.47	-40.00	-24.15	-7.68	Peak
2	189.03	-66.52	-60.80	-40.00	-26.52	-5.72	Peak
3	271.65	-58.26	-52.56	-40.00	-18.26	-5.70	Peak
4	323.80	-65.67	-59.99	-40.00	-25.67	-5.68	Peak
5	444.90	-72.46	-68.72	-40.00	-32.46	-3.74	Peak
6	590.50	-70.42	-70.45	-40.00	-30.42	0.03	Peak
7 pp	4620.00	-48.77	-67.20	-40.00	-8.77	18.43	Peak

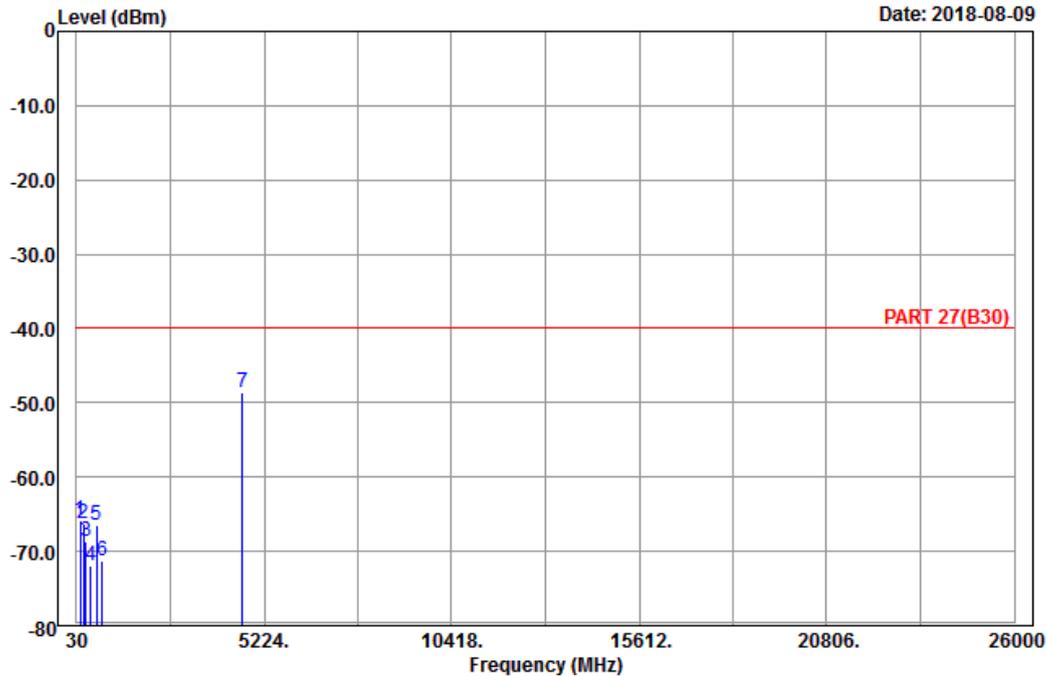


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Vertical  
 Remark : LTE\_Band 30\_Link\_CH27710  
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	139.08	-65.78	-58.09	-40.00	-25.78	-7.69	Peak
2	218.19	-66.34	-60.40	-40.00	-26.34	-5.94	Peak
3	281.91	-68.66	-62.86	-40.00	-28.66	-5.80	Peak
4	426.70	-71.88	-68.54	-40.00	-31.88	-3.34	Peak
5	587.00	-66.39	-66.25	-40.00	-26.39	-0.14	Peak
6	736.80	-71.27	-70.20	-40.00	-31.27	-1.07	Peak
7 pp	4620.00	-48.70	-67.13	-40.00	-8.70	18.43	Peak

# High Channel

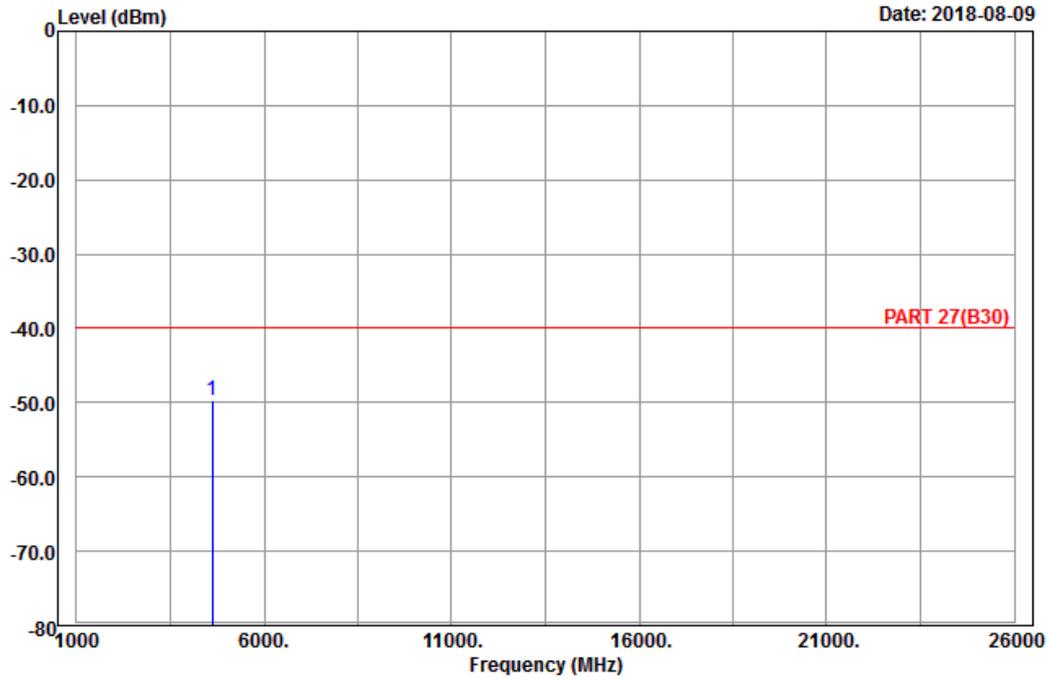


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Horizontal  
 Remark : LTE\_Band 30\_Link\_CH27735  
 Tested by: Charles Hsiao

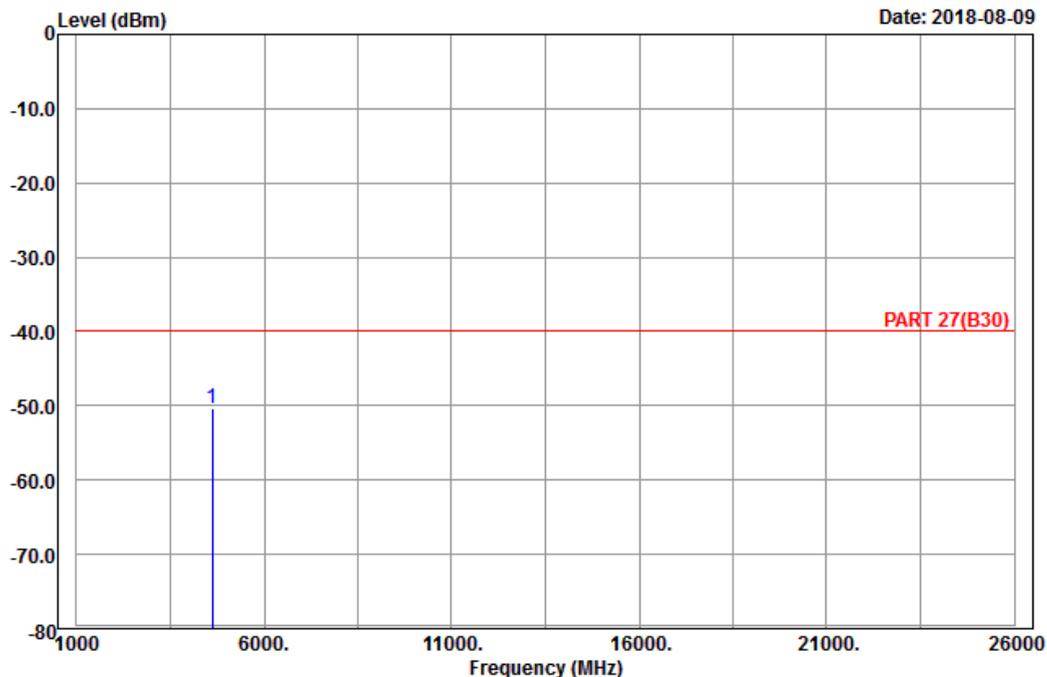
Freq	Level	Read Level	Limit	Over	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4625.00	-49.70	-68.13	-40.00	-9.70	18.43	Peak



A D T

Data: 10

Date: 2018-08-09



Site : 966 chamber 1  
 Condition: PART 27(B30) Vertical  
 Remark : LTE\_Band 30\_Link\_CH27735  
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 4625.00	-50.25	-68.68	-40.00	-10.25	18.43	Peak

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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