

# VARIANT FCC TEST REPORT

## (PART 27)

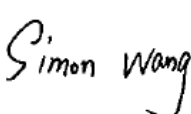

Applicant:	Shanghai Tricheer Technology Co.,Ltd.
Address:	Rm 907,Building 1,Lane 399,Shengxia Road,China (shanghai) Pilot Free Trade Zone,Shanghai

Manufacturer or Supplier:	Shanghai Tricheer Technology Co.,Ltd.
Address:	Rm 907,Building 1,Lane 399,Shengxia Road,China (shanghai) Pilot Free Trade Zone,Shanghai
Product:	LTE USB Modem
Brand Name:	+F
Model Name:	FS040U
FCC ID:	2ANKMFS040U
Date of tests:	Aug. 29, 2023 ~ Sep. 07, 2023

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 27**    ☒ **ANSI/TIA/EIA-603-D**  
☒ **FCC Part 2**    ☒ **ANSI/TIA/EIA-603-E**    ☒ **ANSI C63.26-2015**

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Sep. 07, 2023	 Date: Sep. 07, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Report No.: W7L-P23080026RF02

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170802W002-2	Original release	Aug. 31, 2017
W7L-P23080026RF02	Base on the original report change component, address and update standard, this report verifies power and RSE worse case data. The verified power data is lower than the original power data. So this report only updates conducted power and RSE worse case data.	Sep. 07, 2023

# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
2.1046 27.50(h)(2)	Equivalent Isotropically Radiated Power	See note
2.1046 27.50(h)(2)	Conducted Output Power	Compliance
2.1055 27.54	Frequency Stability	See note
2.1049	Occupied Bandwidth	See note
27.50(d)(5)	Peak to average ratio	See note
2.1051 27.53(m)(4)(6)	Band Edge Measurements	See note
2.1051 27.53(m)(4)(6)	Conducted Spurious Emissions	See note
2.1053 27.53(m)(4)(6)	Radiated Spurious Emissions	Compliance

**Note:** please refer to the original report RF170802W002-2

## 1.1 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	UNCERTAINTY
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted Output power	$\pm 2.06\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,22	Sep.02,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 22	Sep.03, 23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 23	Sep.02, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb.16,24
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 22, 23	May. 21,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,23	May. 05,24
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,23	Feb. 13,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,23	May.09,24
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24
Test Software	ADT	ADT_Radiated_V 7.6.15.9.2	N/A	N/A	N/A

- NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	LTE USB Modem	
<b>MODEL NAME</b>	FS040U	
<b>POWER SUPPLY</b>	DC 5V (host equipment)	
<b>MODULATION TECHNOLOGY</b>	LTE Band 41	QPSK, 16QAM
<b>FREQUENCY RANGE</b>	LTE Band 41 Channel Bandwidth: 5MHz	2498.5MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz	2501.0MHz ~ 2685.0MHz
	LTE Band 41 Channel Bandwidth: 15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth: 20MHz	2506.0MHz ~ 2680.0MHz
<b>EMISSION DESIGNATOR</b>	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 4M48G7D
		16QAM: 4M47W7D
	LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 8M91G7D
		16QAM: 8M93W7D
	LTE Band 41 Channel Bandwidth: 15MHz	QPSK: 13M4G7D
		16QAM: 13M4W7D
	LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 17M9G7D
		16QAM: 17M8W7D
<b>MAX. EIRP POWER</b>	LTE Band 41 Channel Bandwidth: 5MHz	248mW
	LTE Band 41 Channel Bandwidth: 10MHz	261mW
	LTE Band 41 Channel Bandwidth: 15MHz	262mW
	LTE Band 41 Channel Bandwidth: 20MHz	230mW
<b>ANTENNA TYPE</b>	Fixed Internal Antenna with 2dBi	
<b>HW VERSION</b>	LWDM132A	
<b>SW VERSION</b>	LWDJC02.1.0_M132	
<b>I/O PORTS</b>	Refer to user's manual	
<b>DATA CABLE</b>	N/A	

**NOTE:**

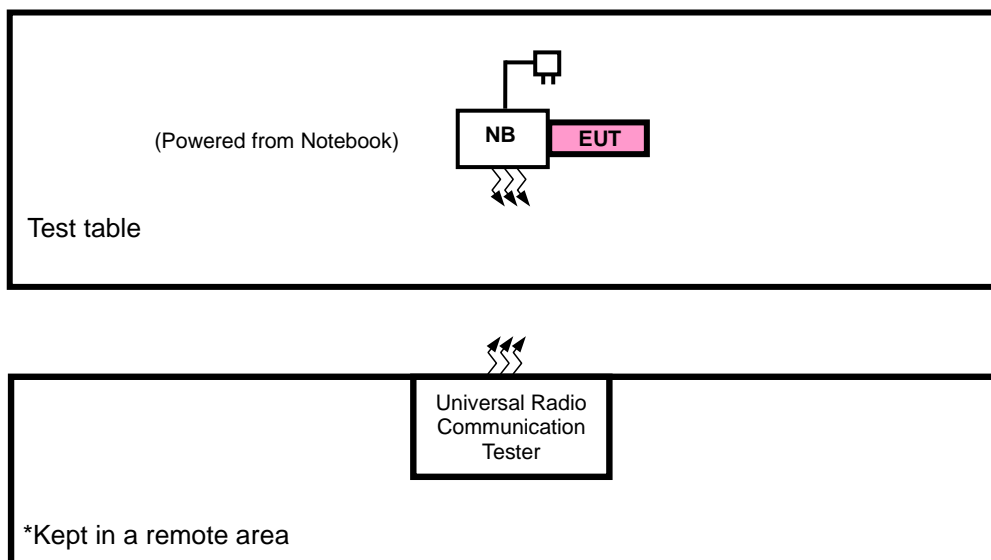
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



## 2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	E6420	9H12FS1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

## 2.4 TEST ITEM AND TEST CONFIGURATION

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 Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	LTE link (Powered By Notebook)

**LTE BAND 41 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
<b>A</b>	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
<b>A</b>	RADIATED EMISSION	39675 to 41565	41565	5MHz	QPSK	1 RB / 0 RB Offset

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



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**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu



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## 2.5 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-D**

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

**ANSI C63.26-2015**

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

### 3 TEST TYPES AND RESULTS

#### 3.1 OUTPUT POWER MEASUREMENT

##### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

##### 3.1.2 TEST PROCEDURES

###### **EIRP MEASUREMENT:**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively  
(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_{\text{T}}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

###### **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.



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### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



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

### 3.1.4 TEST RESULTS

#### CONDUCTED OUTPUT POWER (dBm)

LTE Band 41

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Mid CH (40620)	High CH (41565)
				Frequency (2498.5) MHz	Frequency (2593) MHz	Frequency (2687.5) MHz
41/ 5	QPSK	1	0	20.51	20.86	21.25
		1	12	20.71	20.95	21.35
		1	24	20.26	20.67	21.13
		12	0	19.38	19.69	20.12
		12	6	19.39	19.65	20.05
		12	13	19.38	19.63	20.10
		25	0	19.35	19.71	20.06
	16QAM	1	0	19.04	19.48	19.93
		1	12	19.21	19.61	20.07
		1	24	19.05	19.32	19.69
		12	0	18.36	18.73	19.03
		12	6	18.62	19.04	19.36
		12	13	18.62	18.96	19.37
		25	0	18.58	18.93	19.27

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Mid CH (40620)	High CH (41540)
				Frequency (2501) MHz	Frequency (2593) MHz	Frequency (2685) MHz
41/ 10	QPSK	1	0	20.51	20.91	21.21
		1	24	20.73	21.03	21.36
		1	49	20.27	20.66	21.12
		25	0	19.34	19.79	20.15
		25	12	19.39	19.68	20.14
		25	25	19.42	19.62	20.00
		50	0	19.43	19.65	19.98
	16QAM	1	0	19.04	19.51	19.90
		1	24	19.24	19.63	20.03
		1	49	19.11	19.40	19.74
		25	0	18.33	18.75	19.11
		25	12	18.56	19.02	19.38
		25	25	18.66	19.03	19.37
		50	0	18.54	18.90	19.38



Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Mid CH (40620)	High CH (41515)
				Frequency (2503.5) MHz	Frequency (2593) MHz	Frequency (2682.5) MHz
41/ 15	QPSK	1	0	20.55	20.86	21.22
		1	37	20.66	21.02	21.42
		1	74	20.23	20.60	21.01
		36	0	19.32	19.77	20.14
		36	19	19.42	19.72	20.06
		36	39	19.34	19.63	19.98
		75	0	19.45	19.72	20.08
	16QAM	1	0	19.04	19.41	19.84
		1	37	19.35	19.63	20.10
		1	74	19.12	19.31	19.77
		36	0	18.34	18.70	19.01
		36	19	18.52	18.95	19.36
		36	39	18.56	18.95	19.41
		75	0	18.55	18.89	19.33

Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Mid CH (40620)	High CH (41490)
				Frequency (2506) MHz	Frequency (2593) MHz	Frequency (2680) MHz
41/ 20	QPSK	1	0	20.66	20.99	21.31
		1	50	20.76	21.08	<b>21.43</b>
		1	99	20.37	20.75	21.14
		50	0	19.46	19.81	20.16
		50	25	19.52	19.75	20.18
		50	50	19.47	19.76	20.13
		100	0	19.46	19.76	20.12
	16QAM	1	0	19.16	19.56	19.95
		1	50	19.36	19.76	20.14
		1	99	19.17	19.46	19.84
		50	0	18.48	18.82	19.15
		50	25	18.63	19.09	19.43
		50	50	18.69	19.08	19.47
		100	0	18.65	19.03	19.39

## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -25dBm.

### 3.2.2 TEST PROCEDURES

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m 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 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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.
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}.$

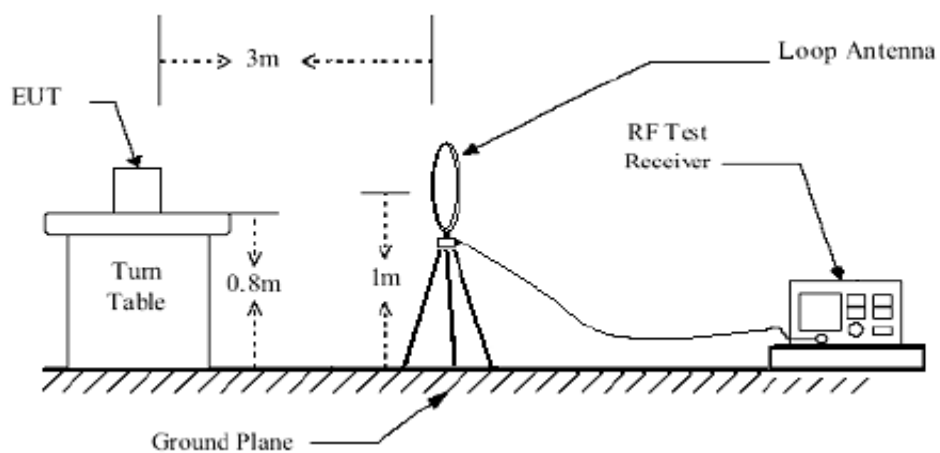
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

### 3.2.3 DEVIATION FROM TEST STANDARD

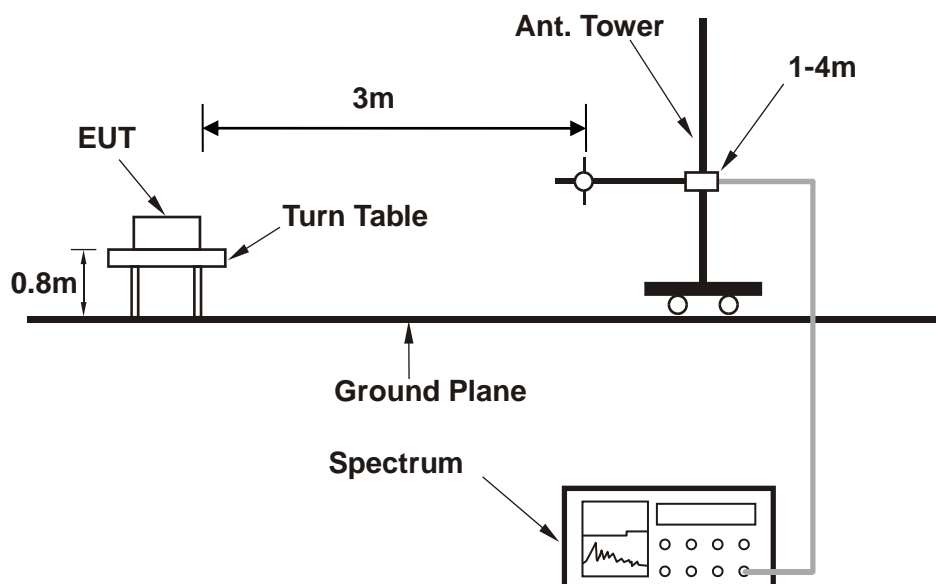
No deviation

### 3.2.4 TEST SETUP

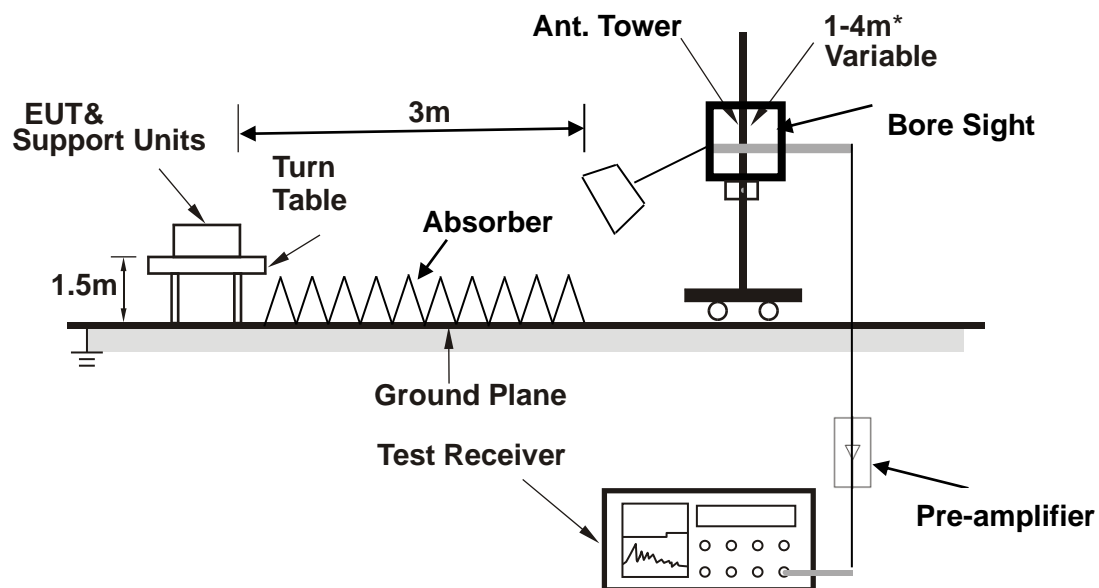
#### < Frequency Range below 30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

### 3.2.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### BELOW 1GHz WORST-CASE DATA

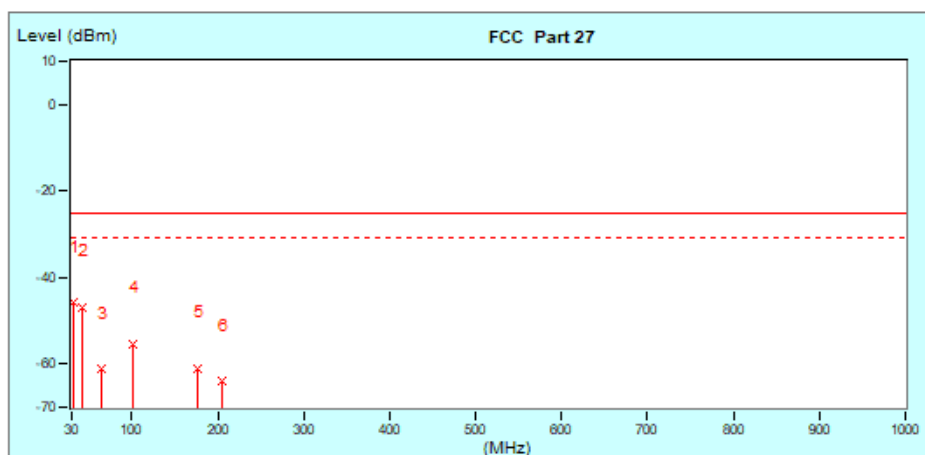
30 MHz – 1GHz data:

LTE Band 41

CHANNEL BANDWIDTH: 5MHz / QPSK

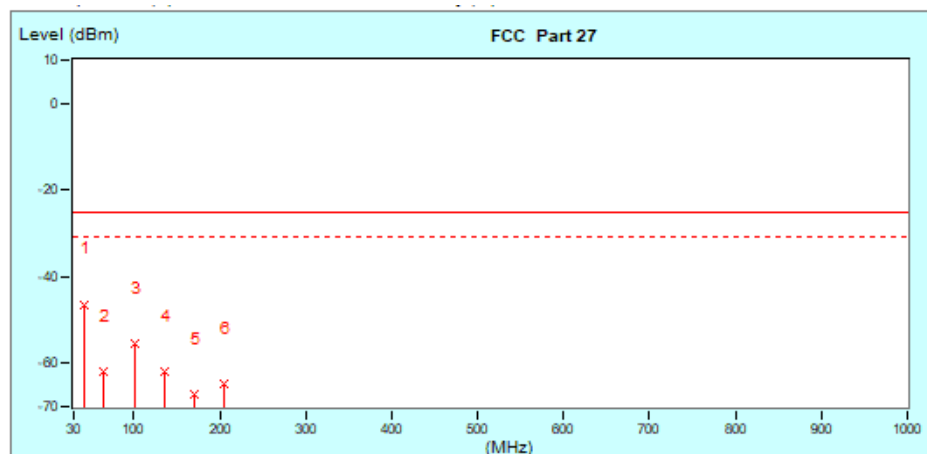
<b>MODE</b>	TX channel 41565	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

No.	Frequency MHz	Factor dB	Reading dBm	Emission dBm	Limit dBm	Margin dB	Tower / Table	
							cm	deg
1	32.42	-1.23	-44.52	-45.75	-25.00	-20.75	100	0
2	43.08	-8.68	-38.14	-46.82	-25.00	-21.82	100	0
3	65.37	-12.42	-48.81	-61.23	-25.00	-36.23	100	0
4	102.19	-9.60	-45.67	-55.27	-25.00	-30.27	100	0
5	176.81	-8.75	-52.26	-61.01	-25.00	-36.01	100	0
6	203.94	-7.24	-56.89	-64.13	-25.00	-39.13	100	0



MODE	TX channel 41565	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

No.	Frequency MHz	Factor dB	Reading dBm	Emission dBm	Limit dBm	Margin dB	Tower / Table cm deg	
* 1	43.08	-8.68	-37.72	-46.40	-25.00	-21.40	100	0
2	65.37	-12.42	-49.49	-61.91	-25.00	-36.91	100	0
3	101.22	-9.85	-45.73	-55.58	-25.00	-30.58	100	0
4	136.11	-6.63	-55.47	-62.10	-25.00	-37.10	100	0
5	170.99	-8.48	-58.72	-67.20	-25.00	-42.20	100	0
6	203.94	-7.24	-57.59	-64.83	-25.00	-39.83	100	0





**BUREAU  
VERITAS**

**Test Report No.: W7L-P23080026RF02**

## ABOVE 1GHz

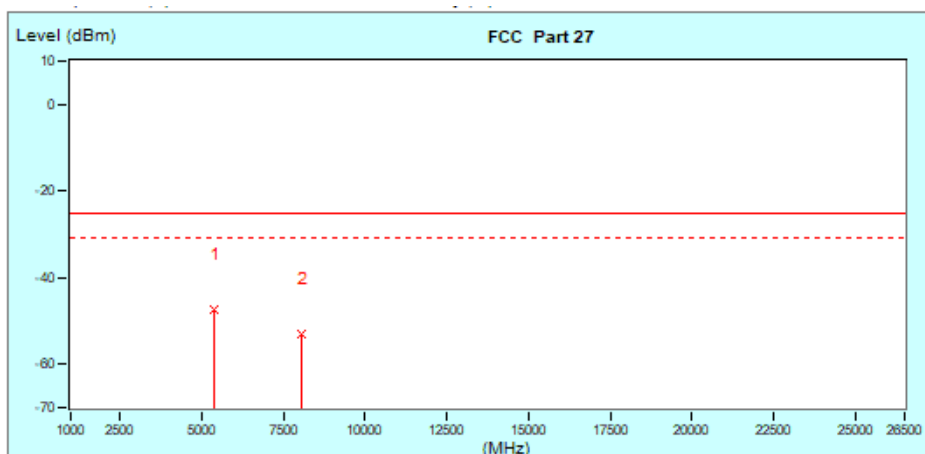
**Note:** For higher frequency, the emission is too low to be detected.

## LTE BAND 41

**CHANNEL BANDWIDTH: 5MHz / QPSK**

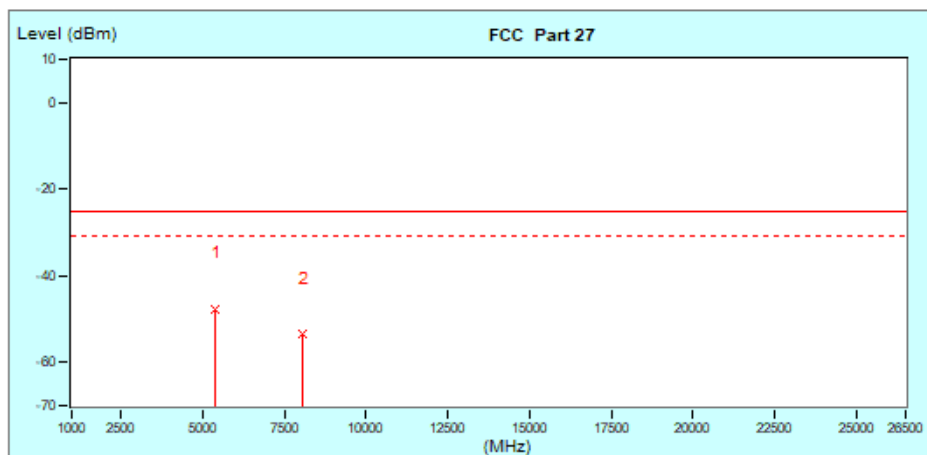
MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

No.	Frequency MHz	Factor dB	Reading dBm	Emission dBm	Limit dBm	Margin dB	Tower / Table cm deg	
* 1	5375.00 (PK)	-49.18	1.85	-47.33	-25.00	-22.33	100	0
2	8062.50 (PK)	-48.80	-4.22	-53.02	-25.00	-28.02	100	0



MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

No.	Frequency MHz	Factor dB	Reading dBm	Emission dBm	Limit dBm	Margin dB	Tower / Table	
							cm	deg
1	5375.00 (PK)	-49.18	1.54	-47.64	-25.00	-22.64	100	0
2	8062.50 (PK)	-48.80	-4.65	-53.45	-25.00	-28.45	100	0







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## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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Web Site: [www.adt.com.tw](http://www.adt.com.tw)

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



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## 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

**--END--**