

VARIANT FCC TEST REPORT

(PART 24)

Applicant:	SIMCom Wireless Solutions Limited
Address:	8F,Building3,No.289,Linhong Road,Changning District,Shanghai, P.R.China

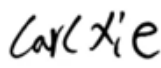
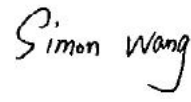
Manufacturer or Supplier:	SIMCom Wireless Solutions Limited
Address:	8F,Building3,No.289,Linhong Road,Changning District,Shanghai, P.R.China
Product:	SIM7670G
Brand Name:	SIMCom
Model Name:	SIM7670G
FCC ID	2AJYU-8XS0002
Date of tests	Mar. 04, 2026 ~ Mar. 20, 2026

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

☒ **FCC PART 24, Subpart E**
☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D**

☒ **ANSI/TIA/EIA-603-E**
☒ **ANSI C63.26-2015**

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

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Mar. 20, 2026	Date: Mar. 20, 2026

BOOMWAVE TEST (SHENZHEN) CO., LTD. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of BOOMWAVE TEST (SHENZHEN) CO., LTD., the test report shall not be reproduced except in full.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23070009RF02	Original release	Sep. 11, 2023
RF20260304B001-Part 24 Report(B2&B25)	Based on the original report, the new product add antenna (model name: WWXL6012681). This report verify power and retest RSE. The verify results of conducted power are similar or lower. So this report update SW version, update antenna gain, EIRP and RSE test data, for other data, please refer to the original report.	Mar. 20, 2026

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	Test lab*
§2.1046	Conducted Output Power	See note	--
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §24.235	Frequency Stability	See note	--
§2.1049	Occupied Bandwidth	See note	--
§24.232(d)	Peak to average ratio*	See note	--
§24.238(a)(b)	Band Edge Measurements	See note	--
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	See note	--
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance	A

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

NOTE: Please refer to the original report (Report No.: W7L-P23070009RF02, FCC ID: 2AJYU-8XS0001).

*Test Lab Information Reference

Lab A:

Boomwave Test (Shenzhen) Co., Ltd.

Lab Address:

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

Accredited Test Lab Cert 7607.01

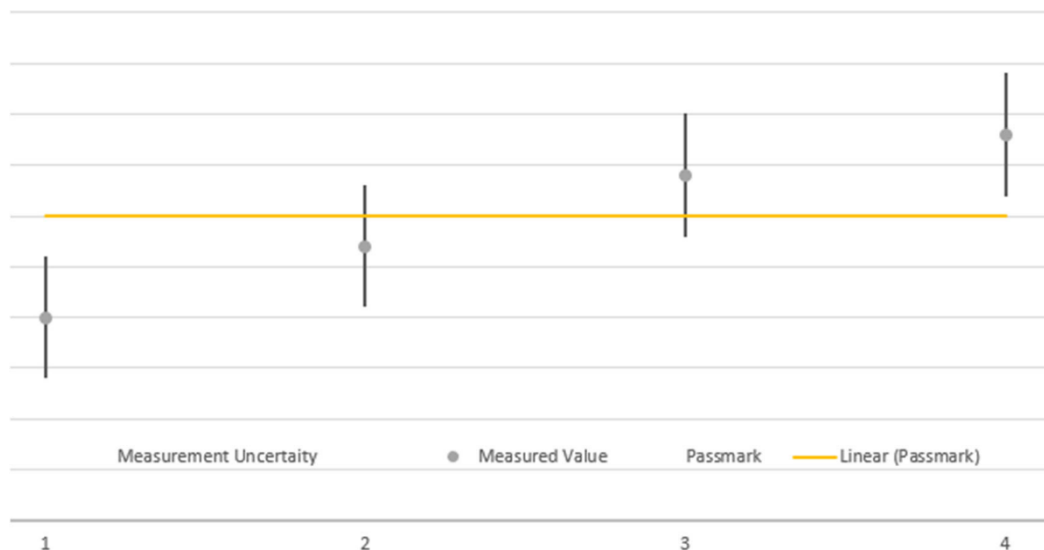
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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
Frequency Stability	$\pm 76.97\text{Hz}$
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 emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2025/7/3	2026/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2026/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2026/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2026/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2026/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA001330	806.JSAPO40804251015	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2026/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2026/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2026/7/1
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2026/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2026/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2026/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2026/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2026/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2026/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2026/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2026/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2026/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2026/6/29
hygrothermograph	Anymeters	----	TH101B	2025/7/22	2026/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2026/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2026/6/29



Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

NOTE:

1. The calibration interval of the above test instruments is 12 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 646781; The Designation No. is CN1429.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SIM7670G	
BRAND NAME	SIMCom	
MODEL NAME	SIM7670G	
NOMINAL VOLTAGE	EUT 3.8V	
MODULATION TYPE	LTE Band 2/25: QPSK, 16QAM	
FREQUENCY RANGE	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
MAX. EIRP POWER	LTE Band 2 Channel Bandwidth: 1.4MHz	889.20mW
	LTE Band 2 Channel Bandwidth: 3MHz	889.20mW
	LTE Band 2 Channel Bandwidth: 5MHz	907.82mW
	LTE Band 2 Channel Bandwidth: 10MHz	905.73mW
	LTE Band 2 Channel Bandwidth: 15MHz	903.65mW
	LTE Band 2 Channel Bandwidth: 20MHz	909.91mW

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	LTE Band 25 Channel Bandwidth: 1.4MHz	837.53mW
	LTE Band 25 Channel Bandwidth: 3MHz	849.18mW
	LTE Band 25 Channel Bandwidth: 5MHz	835.60mW
	LTE Band 25 Channel Bandwidth: 10MHz	847.23mW
	LTE Band 25 Channel Bandwidth: 15MHz	839.46mW
	LTE Band 25 Channel Bandwidth: 20MHz	851.14mW
EMISSION DESIGNATOR	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D 16QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M71G7D 16QAM: 2M71W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M51W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 4M86W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 4M88W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 4M90W7D
ANTENNA TYPE	☒ Provided by client External Antenna with 4.53dBi gain for LTE B2/ LTE B25	
HW VERSION	V2.02	
SW VERSION	V1.9.05	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-10-55 °C	

Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

EXTREME VOLTAGE	3.4V-4.2V
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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

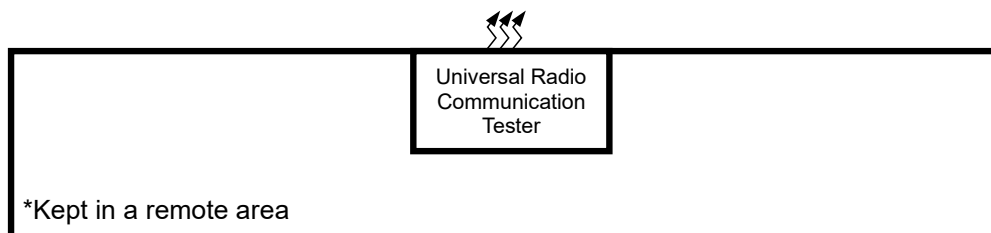
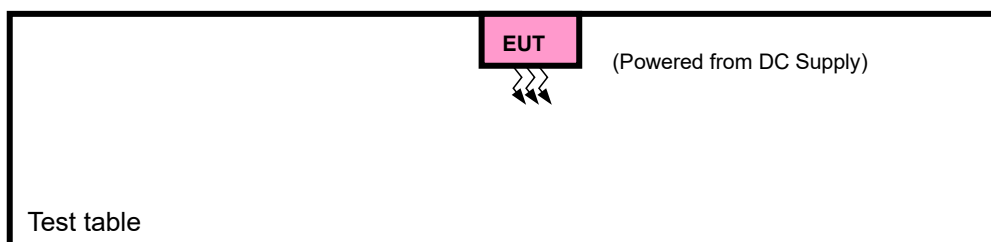
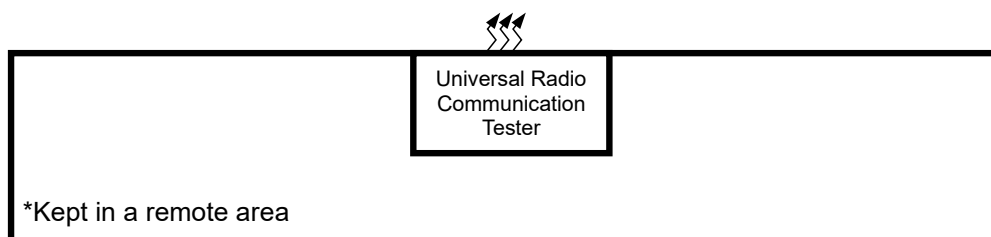
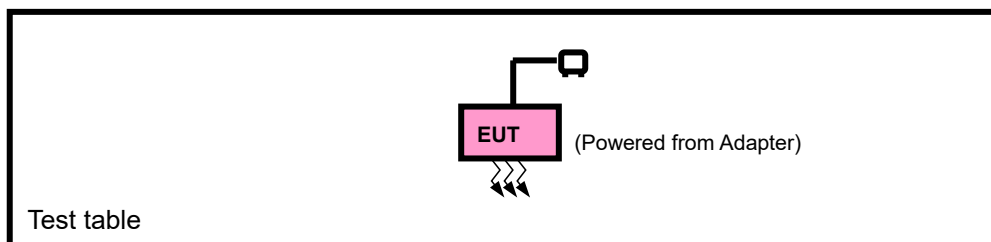
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

4. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Antenna	All things connected	N/A	WWXL6012681	126*50.3*0.2mm

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



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	Adapter	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 2 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM	1 RB / 0 RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 25.

LTE BAND 25 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	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.

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	EUT 3.8V	Carl Xie
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60MHz	Carl Xie

2.5 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.

2.6 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 24

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

Mobile and portable stations are limited to 2 watts EIRP.

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_{Meas} , typically dBW or dBm);

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

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

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

CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :

NOTE: The verify results of conducted power are similar or lower, so conducted power test data please refer to the original report (Report No.: W7L-P23070009RF02, FCC ID: 2AJYU-8XS0001). This report only update EIRP based on new antenna gain.

EIRP POWER (dBm)

LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	25.06	4.53	29.59	909.91	2
	18900	1880	24.65	4.53	29.18	827.94	2
	19100	1900	24.38	4.53	28.91	778.04	2
20M-16QAM	18700	1860	24.10	4.53	28.63	729.46	2
	18900	1880	23.96	4.53	28.49	706.32	2
	19100	1900	23.71	4.53	28.24	666.81	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	25.03	4.53	29.56	903.65	2
	18900	1880	24.53	4.53	29.06	805.38	2
	19125	1902.5	24.35	4.53	28.88	772.68	2
15M-16QAM	18675	1857.5	24.09	4.53	28.62	727.78	2
	18900	1880	23.89	4.53	28.42	695.02	2
	19125	1902.5	23.70	4.53	28.23	665.27	2

LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	25.04	4.53	29.57	905.73	2
	18900	1880	24.57	4.53	29.10	812.83	2
	19150	1905	24.28	4.53	28.81	760.33	2
10M- 16QAM	18650	1855	24.00	4.53	28.53	712.85	2
	18900	1880	23.94	4.53	28.47	703.07	2
	19150	1905	23.63	4.53	28.16	654.64	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	18625	1852.5	25.05	4.53	29.58	907.82	2
	18900	1880	24.57	4.53	29.10	812.83	2
	19175	1907.5	24.27	4.53	28.80	758.58	2
5M-16QAM	18625	1852.5	24.07	4.53	28.60	724.44	2
	18900	1880	23.91	4.53	28.44	698.23	2
	19175	1907.5	23.69	4.53	28.22	663.74	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	24.96	4.53	29.49	889.20	2
	18900	1880	24.59	4.53	29.12	816.58	2
	19185	1908.5	24.36	4.53	28.89	774.46	2
3M-16QAM	18615	1851.5	24.10	4.53	28.63	729.46	2
	18900	1880	23.88	4.53	28.41	693.43	2
	19185	1908.5	23.67	4.53	28.20	660.69	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	18607	1850.7	24.96	4.53	29.49	889.20	2
	18900	1880	24.58	4.53	29.11	814.70	2
	19193	1909.3	24.28	4.53	28.81	760.33	2
1.4M- 16QAM	18607	1850.7	24.08	4.53	28.61	726.11	2
	18900	1880	23.84	4.53	28.37	687.07	2
	19193	1909.3	23.63	4.53	28.16	654.64	2

LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	26140	1860	24.77	4.53	29.30	851.14	2
	26365	1882.5	24.73	4.53	29.26	843.33	2
	26590	1905	23.23	4.53	27.76	597.04	2
20M- 16QAM	26140	1860	23.76	4.53	28.29	674.53	2
	26365	1882.5	24.00	4.53	28.53	712.85	2
	26590	1905	22.60	4.53	27.13	516.42	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	26115	1857.5	24.70	4.53	29.23	837.53	2
	26365	1882.5	24.71	4.53	29.24	839.46	2
	26615	1907.5	23.12	4.53	27.65	582.10	2
15M- 16QAM	26115	1857.5	23.67	4.53	28.20	660.69	2
	26365	1882.5	23.97	4.53	28.50	707.95	2
	26615	1907.5	22.52	4.53	27.05	506.99	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	24.75	4.53	29.28	847.23	2
	26365	1882.5	24.70	4.53	29.23	837.53	2
	26640	1910	23.16	4.53	27.69	587.49	2
10M- 16QAM	26090	1855	23.66	4.53	28.19	659.17	2
	26365	1882.5	23.95	4.53	28.48	704.69	2
	26640	1910	22.54	4.53	27.07	509.33	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	26065	1852.5	24.69	4.53	29.22	835.60	2
	26365	1882.5	24.62	4.53	29.15	822.24	2
	26665	1912.5	23.18	4.53	27.71	590.20	2
5M-16QAM	26065	1852.5	23.68	4.53	28.21	662.22	2
	26365	1882.5	23.92	4.53	28.45	699.84	2
	26665	1912.5	22.55	4.53	27.08	510.50	2

Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	24.76	4.53	29.29	849.18	2
	26365	1882.5	24.72	4.53	29.25	841.40	2
	26675	1913.5	23.15	4.53	27.68	586.14	2
3M-16QAM	26055	1851.5	23.65	4.53	28.18	657.66	2
	26365	1882.5	23.88	4.53	28.41	693.43	2
	26675	1913.5	22.58	4.53	27.11	514.04	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	26047	1850.7	24.70	4.53	29.23	837.53	2
	26365	1882.5	24.65	4.53	29.18	827.94	2
	26683	1914.3	23.18	4.53	27.71	590.20	2
1.4M- 16QAM	26047	1850.7	23.88	4.53	28.41	693.43	2
	26365	1882.5	24.09	4.53	28.62	727.78	2
	26683	1914.3	23.04	4.53	27.57	571.48	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.2.2 TEST PROCEDURES

- a. 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.
- 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

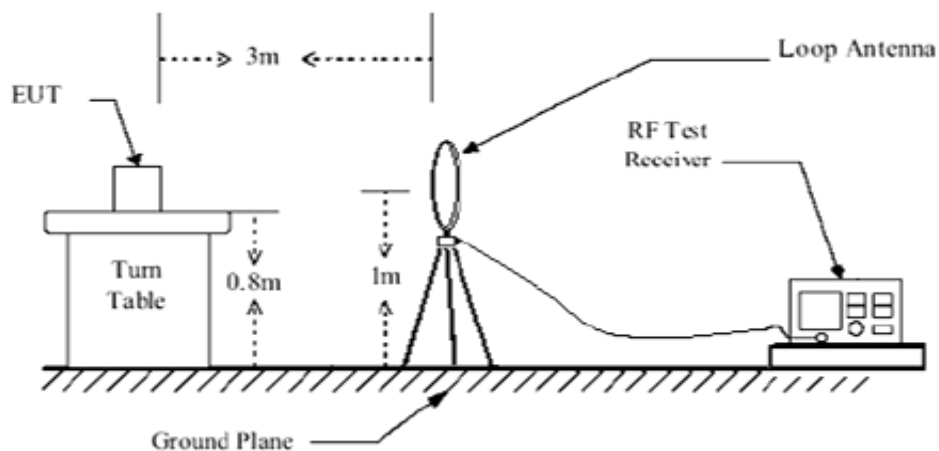
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.2.3 DEVIATION FROM TEST STANDARD

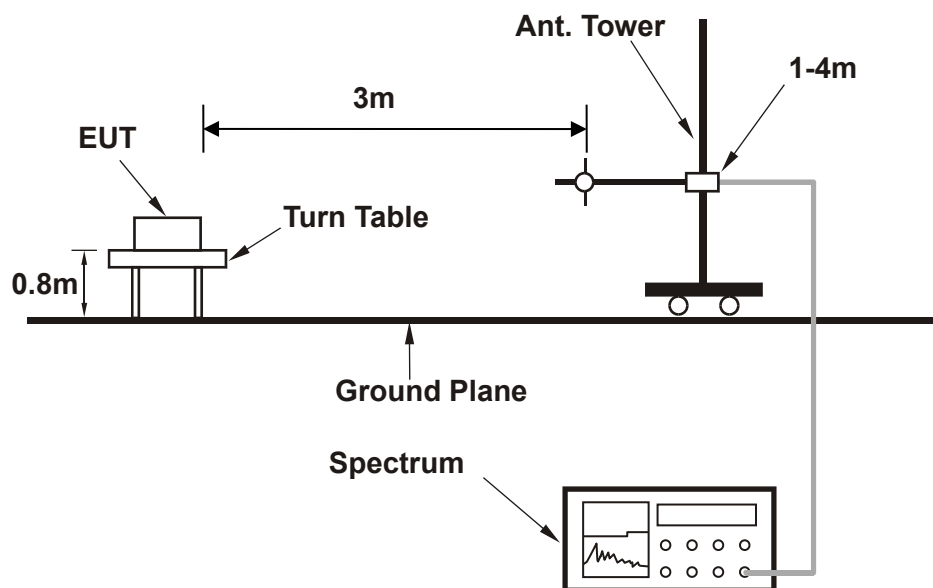
No deviation

3.2.4 TEST SETUP

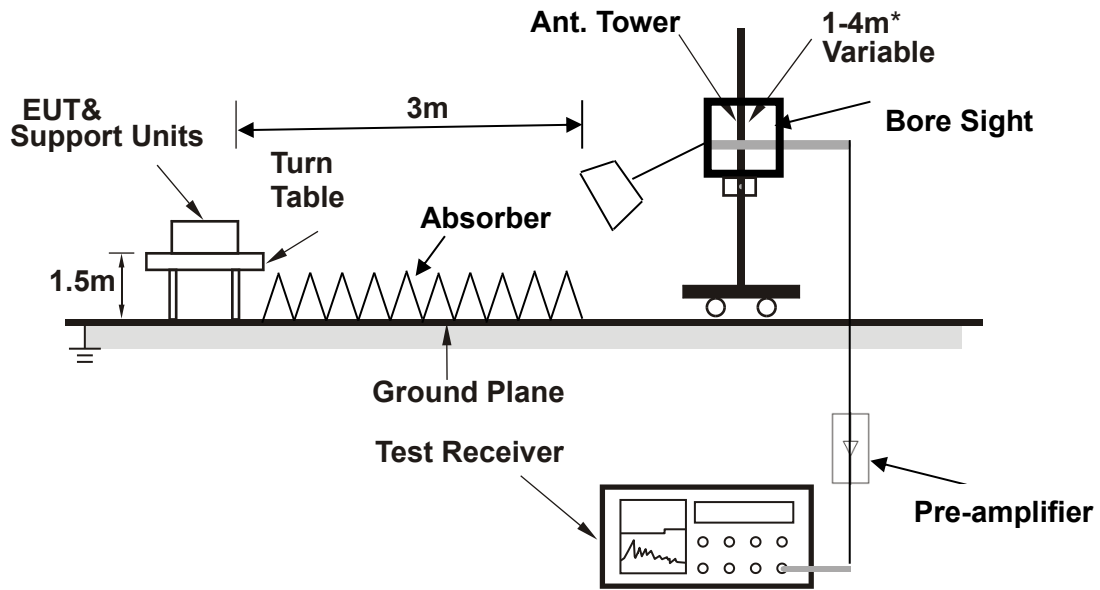
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



Test Report No.: RF20260304B001-Part 24 Report(B2&B25)
<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).

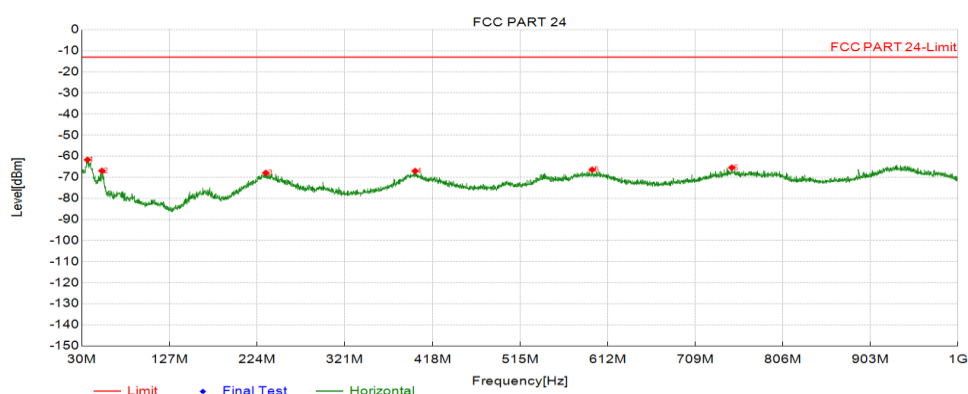
3.2.5 TEST RESULTS

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

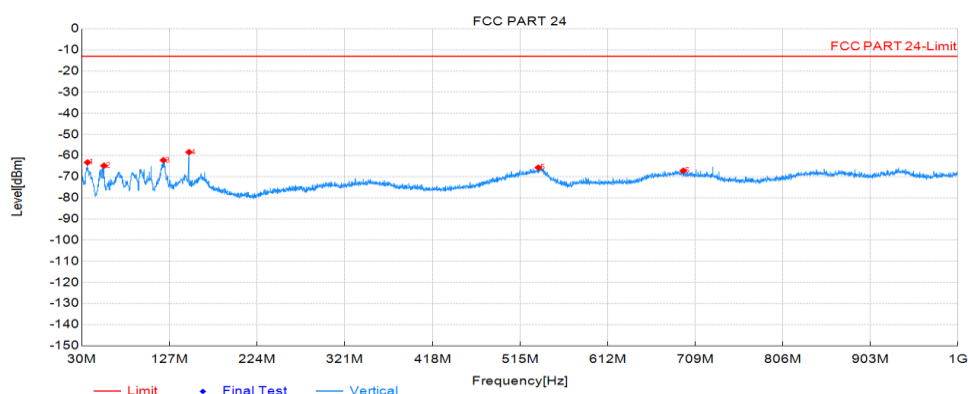
LTE Band 25 CHANNEL BANDWIDTH:20MHz / QPSK			
MODE	TX channel 26365	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	36.2092	-57.98	-61.71	-3.73	-13.00	48.71	Horizontal	PK	PASS
2	52.1204	-56.39	-66.94	-10.55	-13.00	53.94	Horizontal	PK	PASS
3	233.5467	-62.98	-67.93	-4.95	-13.00	54.93	Horizontal	PK	PASS
4	398.8678	-64.76	-67.03	-2.27	-13.00	54.03	Horizontal	PK	PASS
5	594.847	-65.26	-66.41	-1.15	-13.00	53.41	Horizontal	PK	PASS
6	749.4959	-66.62	-65.44	1.18	-13.00	52.44	Horizontal	PK	PASS



MODE	TX channel 26365	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	36.2092	-49.59	-63.23	-13.64	-13.00	50.23	Vertical	PK	PASS
2	54.4489	-44.85	-64.79	-19.94	-13.00	51.79	Vertical	PK	PASS
3	120.228	-49.80	-62.21	-12.41	-13.00	49.21	Vertical	PK	PASS
4	148.5577	-48.50	-58.40	-9.90	-13.00	45.40	Vertical	PK	PASS
5	535.2771	-65.65	-65.70	-0.05	-13.00	52.70	Vertical	PK	PASS
6	695.7471	-66.69	-67.19	-0.50	-13.00	54.19	Vertical	PK	PASS



ABOVE 1GHz DATA

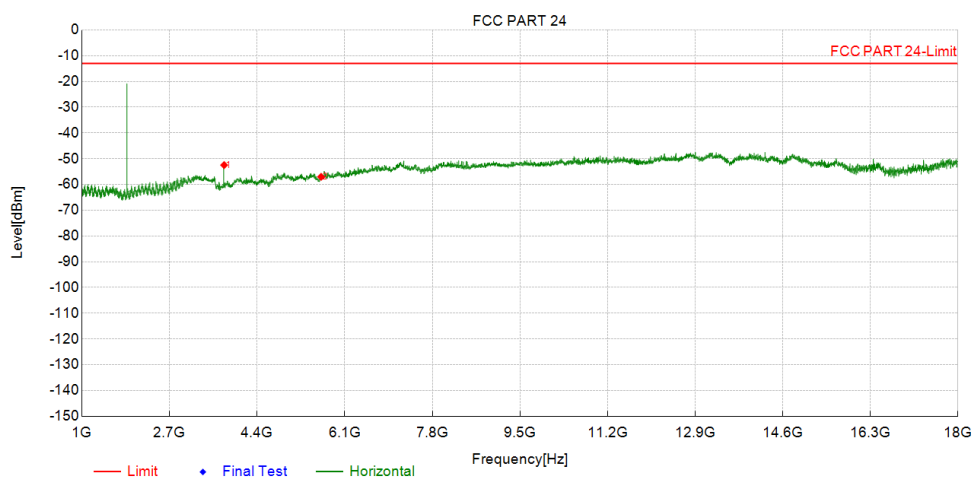
Note: For higher frequency, the emission is too low to be detected.

LTE Band 25

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3759.1518	-51.37	-52.46	-1.09	-13.00	39.46	Horizontal	PK	PASS
2	5640.5281	-61.64	-57.02	4.62	-13.00	44.02	Horizontal	PK	PASS

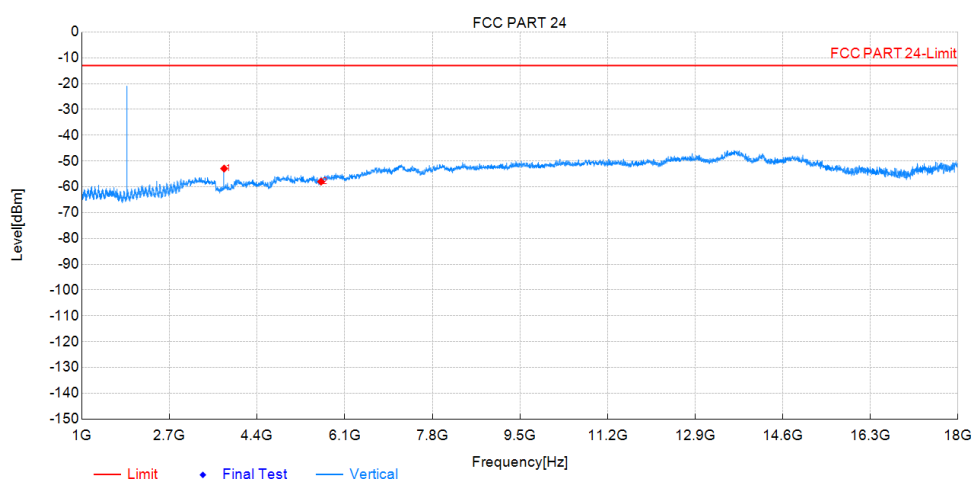


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3759.1518	-51.82	-52.90	-1.08	-13.00	39.90	Vertical	PK	PASS
2	5640.5281	-62.41	-57.96	4.45	-13.00	44.96	Vertical	PK	PASS

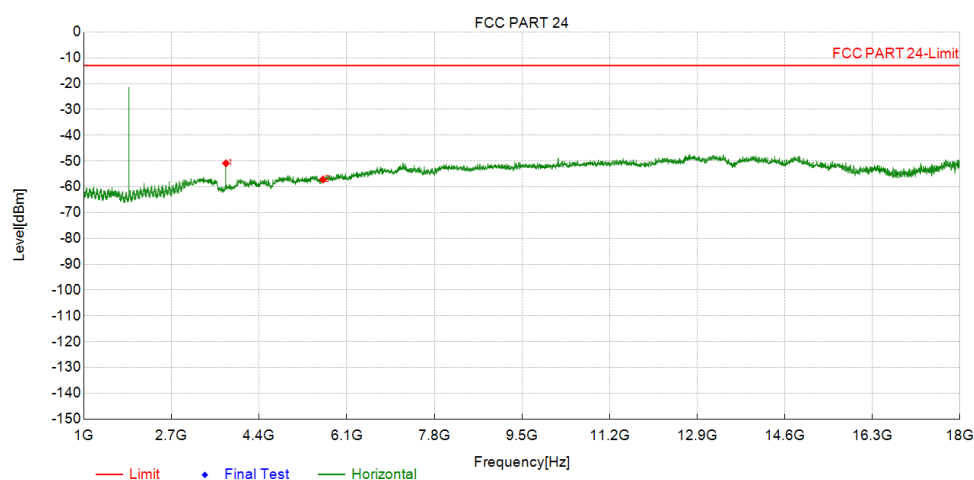


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3756.1512	-49.74	-50.86	-1.12	-13.00	37.86	Horizontal	PK	PASS
2	5637.5275	-61.72	-57.13	4.59	-13.00	44.13	Horizontal	PK	PASS

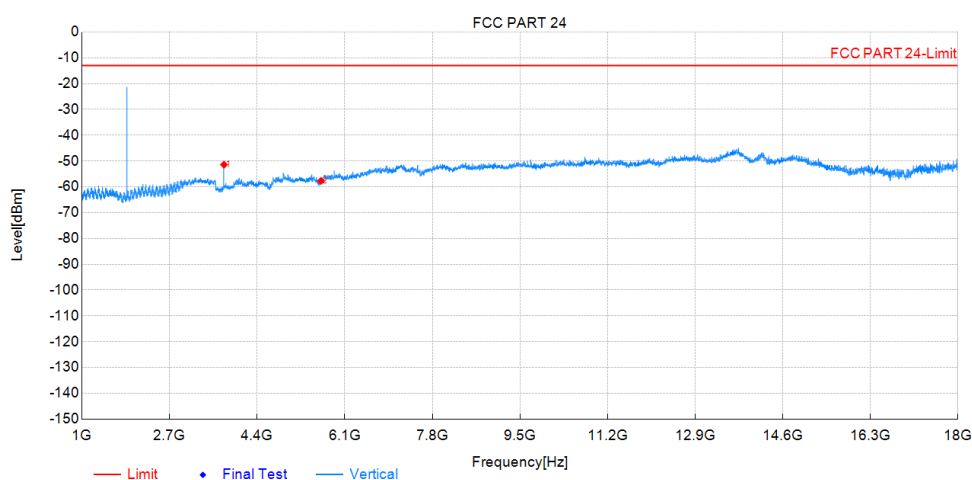


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3756.1512	-50.30	-51.41	-1.11	-13.00	38.41	Vertical	PK	PASS
2	5637.5275	-62.10	-57.69	4.41	-13.00	44.69	Vertical	PK	PASS

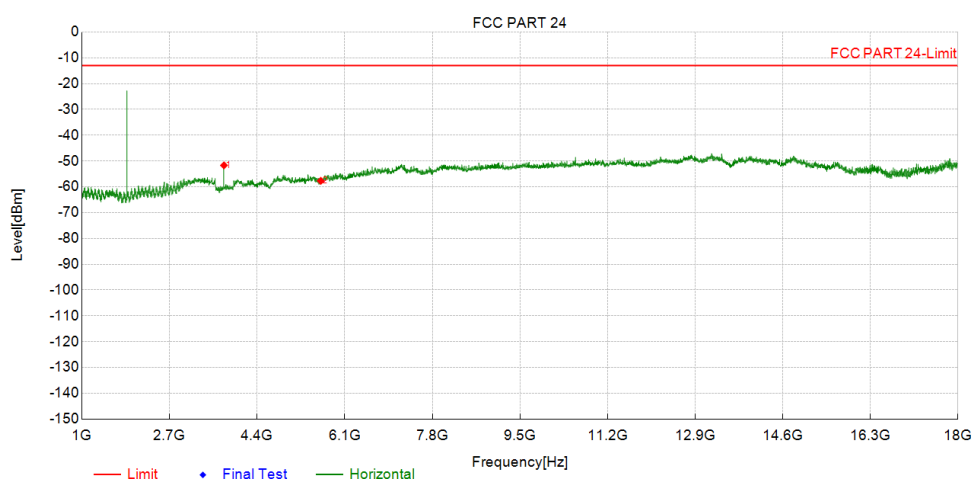


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3756.1512	-50.54	-51.66	-1.12	-13.00	38.66	Horizontal	PK	PASS
2	5634.5269	-62.25	-57.66	4.59	-13.00	44.66	Horizontal	PK	PASS

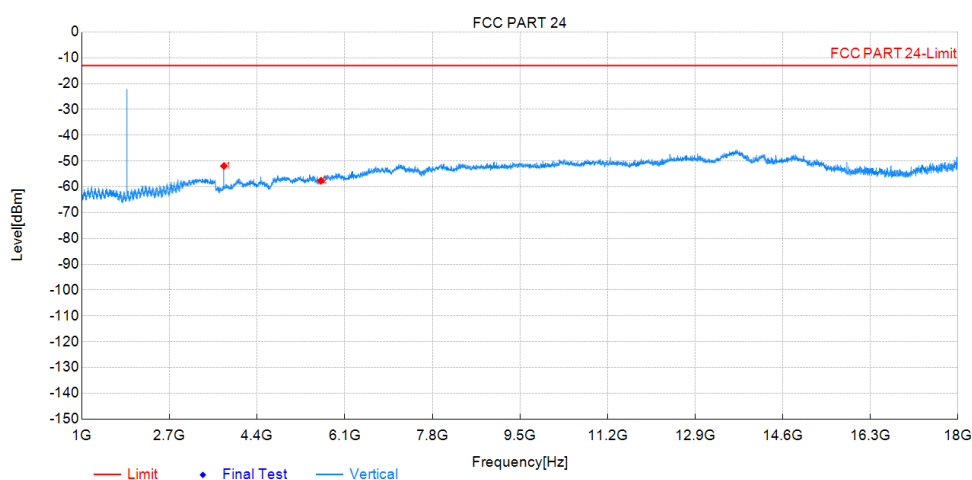


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3756.1512	-50.81	-51.92	-1.11	-13.00	38.92	Vertical	PK	PASS
2	5637.5275	-62.04	-57.63	4.41	-13.00	44.63	Vertical	PK	PASS

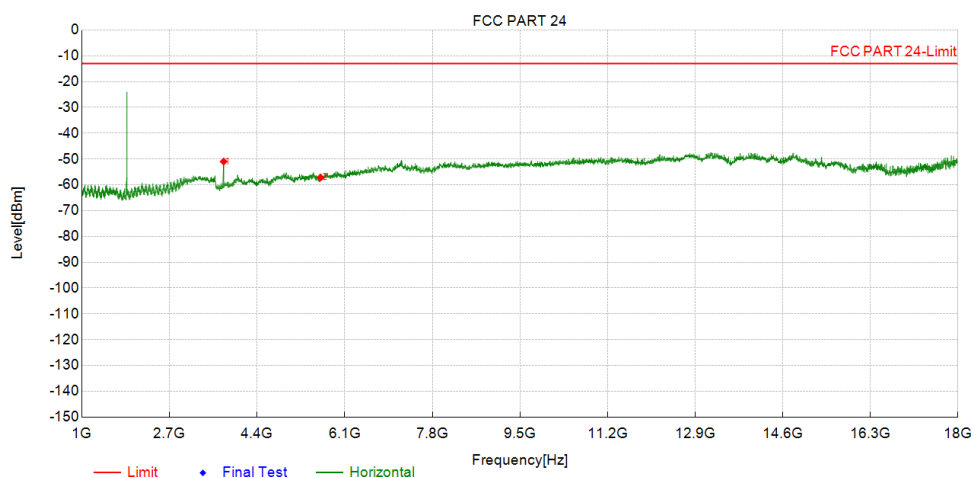


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3750.15	-49.82	-50.97	-1.15	-13.00	37.97	Horizontal	PK	PASS
2	5628.5257	-61.67	-57.15	4.52	-13.00	44.15	Horizontal	PK	PASS

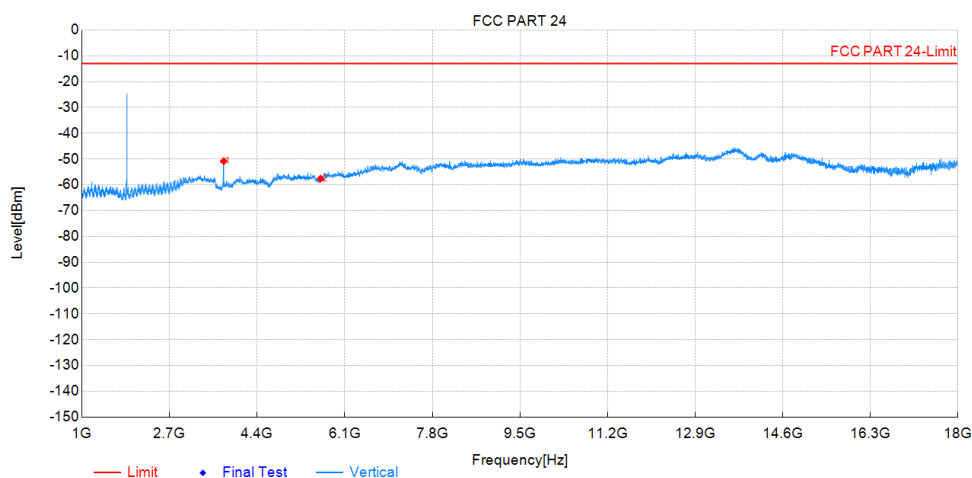


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3750.15	-49.69	-50.83	-1.14	-13.00	37.83	Vertical	PK	PASS
2	5628.5257	-61.93	-57.62	4.31	-13.00	44.62	Vertical	PK	PASS

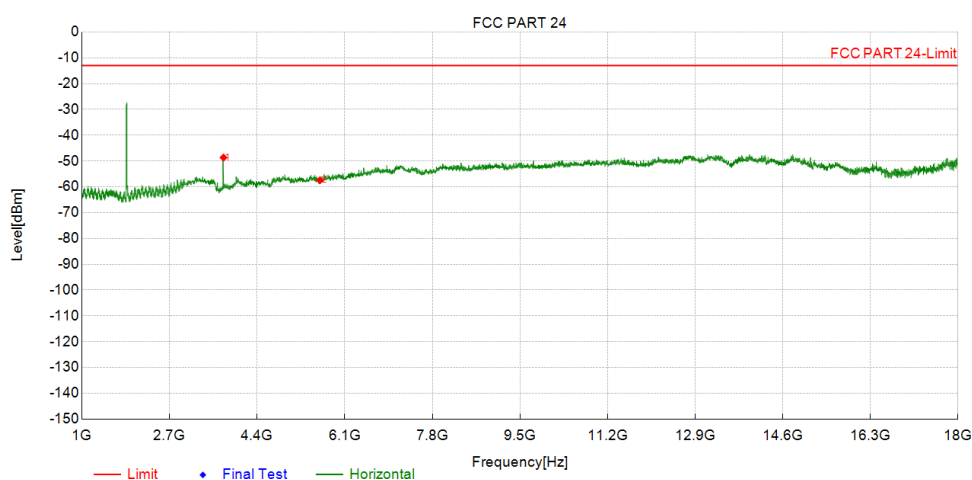


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3747.1494	-47.46	-48.64	-1.18	-13.00	35.64	Horizontal	PK	PASS
2	5619.5239	-61.85	-57.42	4.43	-13.00	44.42	Horizontal	PK	PASS

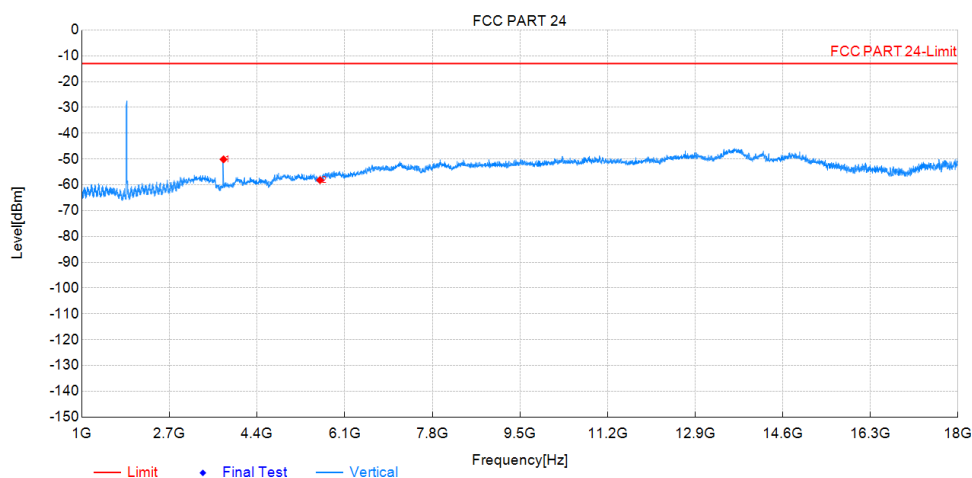


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3747.1494	-48.95	-50.12	-1.17	-13.00	37.12	Vertical	PK	PASS
2	5619.5239	-62.38	-58.15	4.23	-13.00	45.15	Vertical	PK	PASS



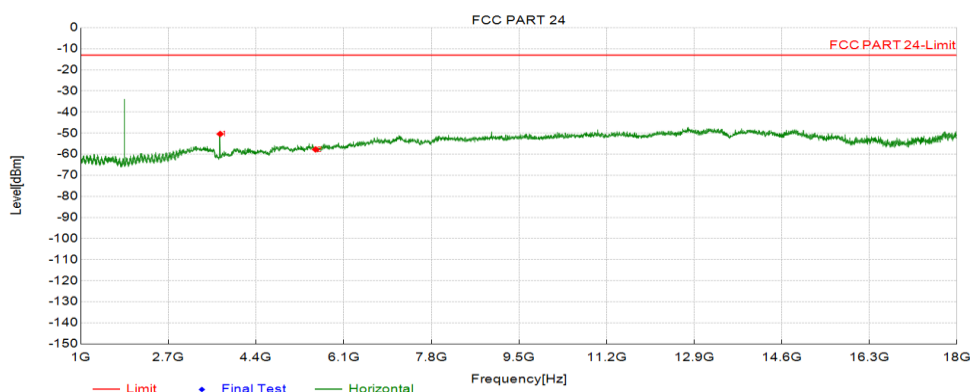
Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CH26140

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3702.1404	-48.91	-50.42	-1.51	-13.00	37.42	Horizontal	PK	PASS
2	5553.5107	-61.96	-57.75	4.21	-13.00	44.75	Horizontal	PK	PASS

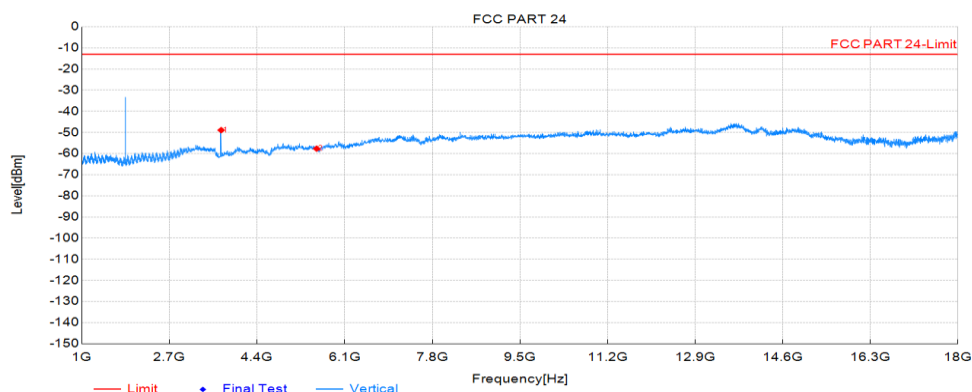


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3702.1404	-47.43	-48.91	-1.48	-13.00	35.91	Vertical	PK	PASS
2	5553.5107	-61.63	-57.68	3.95	-13.00	44.68	Vertical	PK	PASS



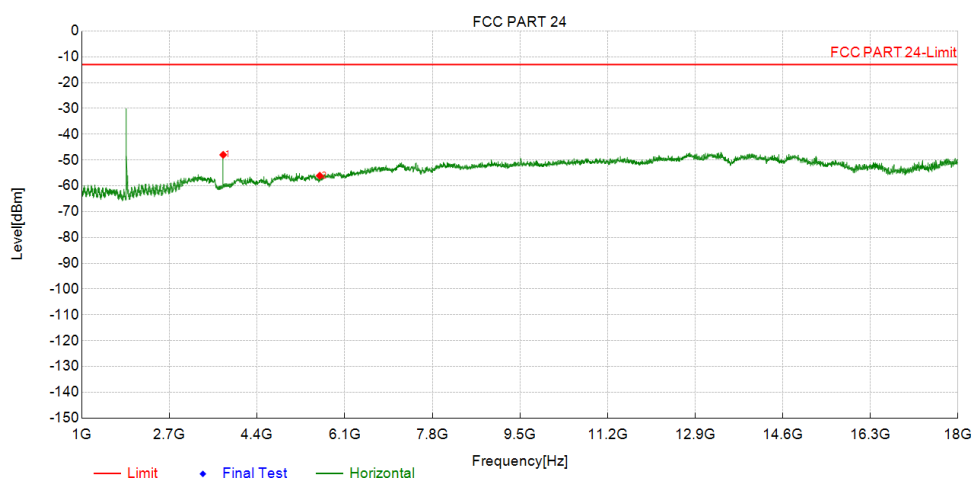
Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CH26365

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

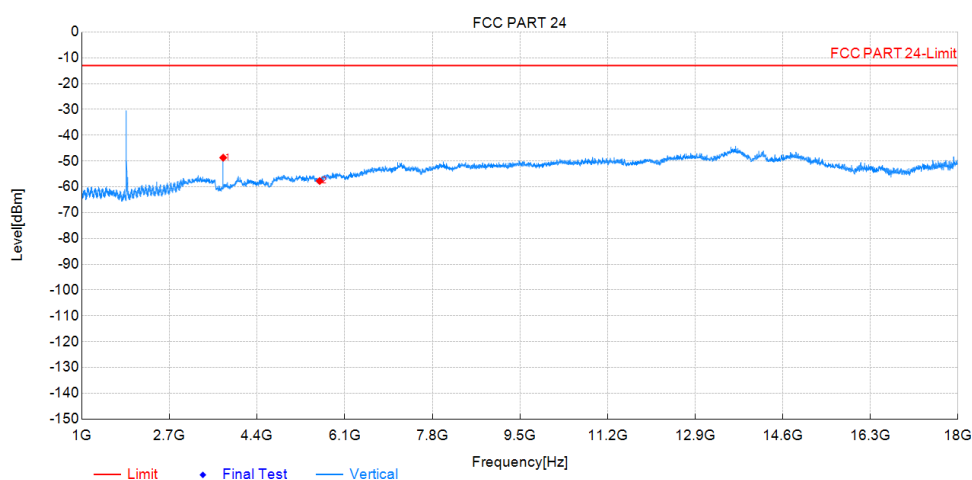
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3741.1482	-46.74	-47.97	-1.23	-13.00	34.97	Horizontal	PK	PASS
2	5613.5227	-60.49	-56.08	4.41	-13.00	43.08	Horizontal	PK	PASS



CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3741.1482	-47.49	-48.70	-1.21	-13.00	35.70	Vertical	PK	PASS
2	5613.5227	-61.85	-57.72	4.13	-13.00	44.72	Vertical	PK	PASS



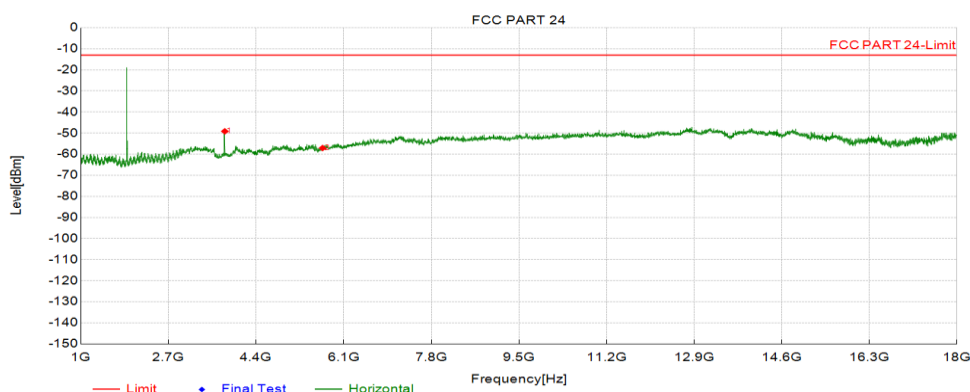
Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CH26590

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3792.1584	-48.28	-49.14	-0.86	-13.00	36.14	Horizontal	PK	PASS
2	5688.5377	-62.13	-57.09	5.04	-13.00	44.09	Horizontal	PK	PASS

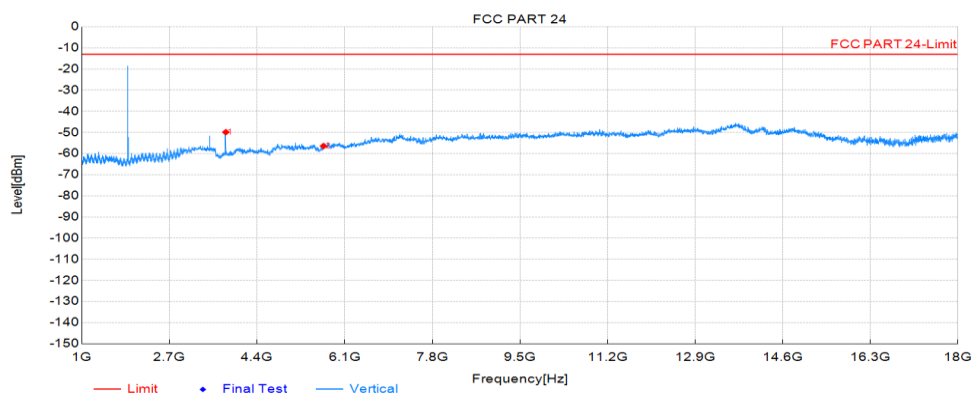


Test Report No.: RF20260304B001-Part 24 Report(B2&B25)

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3792.1584	-49.00	-49.86	-0.86	-13.00	36.86	Vertical	PK	PASS
2	5688.5377	-61.46	-56.41	5.05	-13.00	43.41	Vertical	PK	PASS





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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 INFORMATION ON THE TESTING LABORATORIES

We, Boomwave Test (Shenzhen) co., Ltd., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Boomwave Test (Shenzhen) Co., Ltd.

Lab Address:

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com

6 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.

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