



FCC TEST REPORT (PART 90)

Applicant:	Foxx Development Inc
Address:	3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005

Manufacturer or Supplier:	Foxx Development Inc			
Address:	3480 Preston Ridge Road Suite	e 500, Alpharetta, GA 30005		
Product:	LTE Cat 1bis Module			
Brand Name:	FOXX			
Model Name:	IQ10			
FCC ID:	2AQRM-IQ10			
Date of tests:	Feb. 07, 2025 ~ Feb. 28, 2025	Feb. 07, 2025 ~ Feb. 28, 2025		
The tests have be	een carried out according to the r	equirements of the following standard:		
 FCC Part 90, 5 ANSI/TIA/EIA FCC Part 2	•	☑ ANSI/TIA/EIA-603-E☑ ANSI C63.26-2015		
CONCLUSION: T	he submitted sample was found	to COMPLY with the test requirement		
	ared by Hanwen Xu er / Mobile Department	Approved by Peibo Sun Manager / Mobile Department		
D	Lu Hannen	Simple: bo		
Da	te: Feb. 28, 2025	Date: Feb. 28, 2025		

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/tems-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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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSZ-NQN2412300616RF05	Original release	Feb. 28, 2025

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 90 & Part 2				
STANDARD SECTION	RESULT			
§2.1046 §90.635(b)	Conducted Output Power	PASS		
§2.1055 §90.213	Frequency Stability	PASS		
§2.1049 §90.209	Occupied Bandwidth	PASS		
§2.1051 §90.691(a)	Emission Masks	PASS		
§2.1051 §90.691(a)	Conducted Spurious Emissions	PASS		
§2.1053 §90.691(a)	Radiated Spurious Emissions	PASS		

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province Accredited Test Lab Cert 6613.01

Accidance lest Lab ocit 0010.01

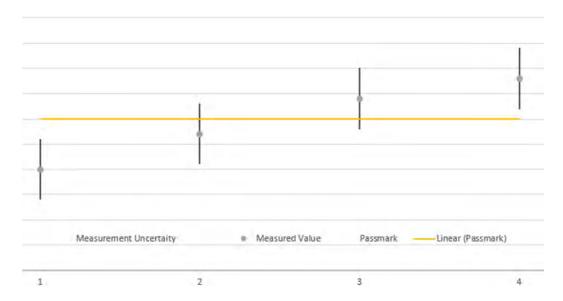
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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	FREQUENCY	UNCERTAINTY	
Conducted emissions	9kHz~30MHz	2.66dB	
	9KHz ~ 30MHz	2.68dB	
Radiated emissions	30MHz ~ 1GHz	3.26dB	
Nadiated effilissions	1GHz ~ 18GHz	4.48dB	
	18GHz ~ 40GHz	4.12dB	

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.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ- EMC- 01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ- EMC- 02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBE CK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS- LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,23	Feb.22,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC- AMI18843A(CABLE)	R&S	HF290-NMNM- 7.00M	N/A	N/A	N/A
TMC- AMI18843A(CABLE)	R&S	HF290-NMNM- 4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
Temperature Chamber	votsch	VT4002	585660781000 50	May.30,24	May.29,26



- **NOTE:** 1. The calibration interval of the above test instruments is 12 / 24/ 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 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

	<u> </u>			
PRODUCT*	LTE Cat 1bis Module			
BRAND NAME*	FOXX			
MODEL NAME*	IQ10			
NOMINAL VOLTAGE*	EUT 3.8V			
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM		
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	814.7MHz ~ 823.3MHz		
FREQUENCY RANGE	LTE Band 26 (Channel Bandwidth: 3MHz)	815.5MHz ~ 822.5MHz		
	LTE Band 26 (Channel Bandwidth: 5MHz)	816.5MHz ~ 821.5MHz		
	LTE Band 26 (Channel Bandwidth: 10MHz)	819MHz		
	LTE Band 26	QPSK: 1M09G7D		
	(Channel Bandwidth: 1.4MHz)	16QAM: 1M08W7D		
	LTE Band 26	QPSK: 2M69G7D		
EMISSION DESIGNATOR	(Channel Bandwidth: 3MHz)	16QAM: 2M69W7D		
	LTE Band 26	QPSK: 4M48G7D		
	(Channel Bandwidth: 5MHz)	16QAM: 4M48W7D		
	LTE Band 26	QPSK: 8M96G7D		
	(Channel Bandwidth: 10MHz)	16QAM: 4M81W7D		
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	151.01mW		
MAX. ERP POWER	LTE Band 26 (Channel Bandwidth: 3MHz)	150.66mW		
MAA. LIST FOWER	LTE Band 26 (Channel Bandwidth: 5MHz)	150.66mW		
	LTE Band 26 (Channel Bandwidth: 10MHz)	152.05mW		
ANTENNA GAIN*	LTE B 26	0.91dBi		
ANTENNA TYPE*	PIFA Antenna			
HW VERSION*	V2.02			
SW VERSION*	2382B01IQ10M5A_M			
I/O PORTS*	Refer to user's manual			
DATA CABLE*	N/A			
EXTREME				
TEMPERATURE*	-30-75 °C			
EXTREME VOLTAGE*	3.4V - 4.2V			



NOTE:

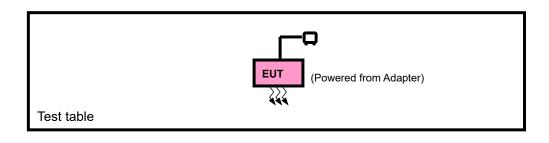
- 1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

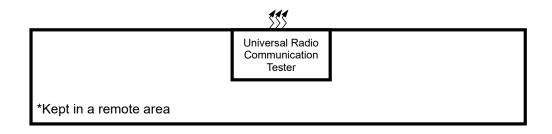
MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

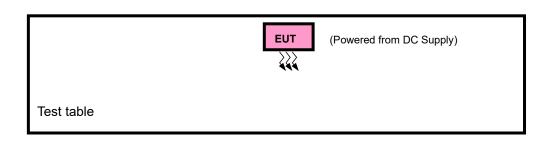
4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

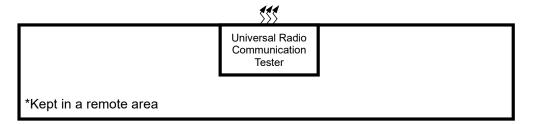
2.2 CONFIGURATION OF SYSTEM UNDER TEST

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	Adapter	N/A	N/A	N/A	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable, 1.0m;
2	N/A

2.4 DESCRIPTION OF TEST MODES

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 ERP/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
Α	EUT + Adapter with LTE link
В	EUT + DC Supply with LTE link

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE				
		26697 to 26783	26697, 23330, 26783	1.4MHz	QPSK, 16QAM	1 RB / 0 RB offset				
А	ERP	26705 to 26775	26705, 23330, 26775	3MHz	QPSK, 16QAM	1 RB / 0 RB offset				
		26715 to 26765	26715, 23330, 26765	5MHz	QPSK, 16QAM	1 RB / 0 RB offset				
		23330	23330	10MHz	QPSK, 16QAM	1 RB / 0 RB offset				
В	FREQUENCY STABILITY	23330	23330	10MHz	QPSK	50 RB / 0 RB offset				
		26697 to 26783	26697, 23330, 26783	1.4MHz	QPSK, 16QAM	6 RB / 0 RB offset				
	OCCUPIED BANDWIDTH	26705 to 26775	26705, 23330, 26775	3MHz	QPSK, 16QAM	15 RB / 0 RB offset				
А		26715 to 26765	26715, 23330, 26765	5MHz	QPSK, 16QAM	25 RB / 0 RB offset				
		23330	23330	10MHz	QPSK, 16QAM	50 RB / 0 RB offset 27 RB / 0 RB offset				
		26697 to	26697	1.4MHz	QPSK, 16QAM	1 RB / 0 RB offset 6 RB / 0 RB offset				
		DANID 50.05	BAND EDGE		DANID 5005	26783	26783	1.4MHz	QPSK, 16QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
							26705	3MHz	QPSK, 16QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
A	BAND EDGE	26705 to 26775	26775	3MHz	QPSK, 16QAM	1 RB / 14 RB offset				
			20110		GI OIX, IOGAW	15 RB / 0 RB offset				
		26715 to 26765	26715	5MHz	QPSK, 16QAM	1 RB / 0 RB offset 25 RB / 0 RB offset				

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VERITAS						
						1 RB / 24 RB offset
			26765	5MHz	QPSK, 16QAM	25 RB / 0 RB
						offset
						1 RB / 0 RB offset
			23330	10MHz	QPSK, 16QAM	50 RB / 0 RB offset
			2000	10111112	ar or, roa m	27 RB / 0 RB offset
		23330				1 RB / 49 RB offset
			23330	10MHz	QPSK, 16QAM	50 RB / 0 RB offset
						27 RB / 23 RB offset
		26697 to 26783	26697, 23330, 26783	1.4MHz	QPSK	1 RB / 0 RB offset
Α	CONDUCTED EMISSION	26705 to 26775	26705, 23330, 26775	3MHz	QPSK	1 RB / 0 RB offset
	EMISSION	26715 to 26765	26715, 23330, 26765	5MHz	QPSK	1 RB / 0 RB offset
		23330	23330	10MHz	QPSK	1 RB / 0 RB offset
Α	PEAK-TO- AVERAGE RATIO	23330	23330	10MHz	QPSK, 16QAM	1 RB / 0 RB offset
		26697 to 26783	26697, 23330, 26783	1.4MHz	QPSK	1 RB / 0 RB offset
Α	RADIATED	26705 to 26775	23330	3MHz	QPSK	1 RB / 0 RB offset
	EMISSION	26715 to 26765	23330	5MHz	QPSK	1 RB / 0 RB offset
		23330	23330	10MHz	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						
ERP	24deg. C, 60%RH	EUT 3.8V	Hanwen Xu						
FREQUENCY STABILITY	24deg. C, 61%RH	DC 3.0V/3.8V/4.2V By DC Supply	Hanwen Xu						
OCCUPIED BANDWIDTH	24deg. C, 61%RH	EUT 3.8V	Hanwen Xu						
BAND EDGE	24deg. C, 61%RH	EUT 3.8V	Hanwen Xu						
CONDUCTED EMISSION	24deg. C, 61%RH	EUT 3.8V	Hanwen Xu						
RADIATED EMISSION	23deg. C, 70%RH	EUT 3.8V	Hanwen Xu						

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 90 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

Per FCC Part 90.635(a)(b)

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

3.1.2 TEST PROCEDURES

EIRP / ERP 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 determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = P_{Meas} + G_T - L_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);

Lc = signal attenuation in the connecting cable between the transmitter and antenna, in dB

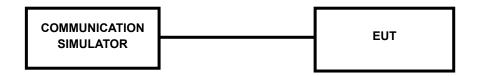
CONDUCTED POWER MEASUREMENT:

- 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.



3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

CONDUCTED OUTPUT POWER (dBm):

LTE Band 26									
Band/BW	Modulation	RB	RB	Low CH 26697	Mid CH 23330	High CH 26783			
Barra/BVV	Woddiation	Size	offset	Frequency 814.7 MHz	Frequency 819 MHz	Frequency 823.3 MHz			
		1	0	22.97	22.89	23.03			
		1	2	22.86	22.84	23.01			
		1	5	22.73	22.79	22.74			
	QPSK	3	0	22.86	22.84	22.87			
		3	1	22.79	22.70	22.84			
		3	3	22.72	22.68	22.54			
26/ 1.4		6	0	22.08	21.94	22.05			
26/ 1.4		1	0	22.23	22.13	22.26			
		1	2	22.30	22.34	22.33			
		1	5	22.22	22.32	22.28			
	16QAM	3	0	22.19	21.99	22.19			
		3	1	22.09	22.10	22.06			
		3	3	22.09	22.10	22.07			
		6	0	21.19	21.23	21.19			
Band/BW	Modulation	RB	RB	Low CH 26705	Mid CH 23330	High CH 26775			
Danu/DVV		Size	ffset	Frequency 815.5 MHz	Frequency 819 MHz	Frequency 822.5 MHz			
		1	0	22.93	22.90	22.95			
		1	7	22.93	22.83	23.02			
		1	14	22.79	22.84	22.70			
	QPSK	8	0	22.03	22.06	22.16			
		8	3	21.95	21.98	21.98			
		8	7	21.85	21.90	21.83			
00/0		15	0	22.08	21.94	21.99			
26/ 3		1	0	22.28	22.20	22.24			
		1	7	22.35	22.34	22.41			
		1	14	22.18	22.29	22.23			
	16QAM	8	0	22.12	21.99	22.13			
		8	3	22.13	22.14	22.07			
		8	7	22.09	22.13	22.11			
		15	0	21.23	21.17	21.27			



	LTE Band 26									
Band/BW	Modulation	RB	RB	Low CH 26715	Mid CH 23330	High CH 26765				
Barra, BVV	Woddiation	Size	offset	Frequency 816.5 MHz	Frequency 819 MHz	Frequency 821.5 MHz				
		1	0	22.93	22.88	23.02				
		1	12	22.87	22.91	22.93				
		1	24	22.87	22.75	22.81				
	QPSK	12	0	22.10	22.08	22.13				
		12	6	21.98	21.95	22.06				
		12	13	21.87	21.93	21.78				
26/ 5		25	0	21.95	21.93	21.93				
20/ 3		1	0	22.31	22.16	22.23				
		1	12	22.28	22.31	22.41				
		1	24	22.23	22.26	22.29				
	16QAM	12	0	22.11	22.02	22.09				
		12	6	22.21	22.22	22.07				
		12	13	22.09	22.21	22.08				
		25	0	21.17	21.09	21.27				
Band/BW	Modulation	RB	RB	1	Mid CH 23330	1				
Bana/BVV		Size	offset	1	Frequency 819 MHz	1				
		1	0	1	23.06	1				
		1	24	1	22.91	1				
		1	49	1	22.88	1				
	QPSK	25	0	1	22.11	1				
		25	12	1	22.02	1				
		25	25	1	21.99	1				
26/ 10		50	0	1	22.03	1				
20/ 10		1	0	1	22.36	1				
		1	12	1	22.38	1				
		1	24	1	22.33	1				
	16QAM	12	0	1	22.22	1				
		12	17	1	22.15	1				
		12	36	1	22.17	1				
		27	0	1	21.25	1				

ERP

	LTE BAND 26									
1.4MHz QPSK										
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)				
26697	814.7	22.97	0.91	21.73	148.94	100				
23330	819	22.89	0.91	21.65	146.22	100				
26783	823.3	23.03	0.91	21.79	151.01	100				

1.4MHz 16QAM									
Channel	Frequency (MHz)	Conducted Power (dBm)	G _τ -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)			
26697	814.7	22.30	0.91	21.06	127.64	100			
23330	819	22.34	0.91	21.1	128.82	100			
26783	823.3	22.33	0.91	21.09	128.53	100			

3MHz QPSK									
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)			
26705	815.5	22.93	0.91	21.69	147.57	100			
23330	819	22.90	0.91	21.66	146.55	100			
26775	822.5	23.02	0.91	21.78	150.66	100			

3MHz 16QAM									
Channel	Frequency (MHz)	Conducted Power (dBm)	G _⊤ -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)			
26705	815.5	22.35	0.91	21.11	129.12	100			
23330	819	22.34	0.91	21.1	128.82	100			
26775	822.5	22.41	0.91	21.17	130.92	100			



	5MHz QPSK									
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)				
26715	816.5	22.93	0.91	21.69	147.57	100				
23330	819	22.91	0.91	21.67	146.89	100				
26765	821.5	23.02	0.91	21.78	150.66	100				

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26715	816.5	22.31	0.91	21.07	127.94	100
23330	819	22.31	0.91	21.07	127.94	100
26765	821.5	22.41	0.91	21.17	130.92	100

10MHz QPSK								
Channel Frequency (MHz) Conducted Power (dBm) G _T -L _C ERP (dBm) ERP (mW) (W)								
23330								

10MHz 16QAM									
Channel	Channel Frequency (MHz) Conducted Power (dBm) G _T -L _C ERP (mW) Limit (W)								
23330									

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

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

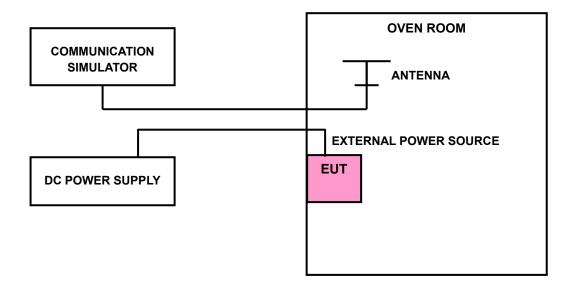
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5 ^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



Please Refer to Appendix of this test report.

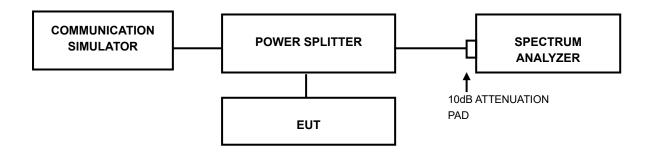
Note: VL = Low voltage(3.4V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.2V);

NT = Normal temperature (25°C)

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

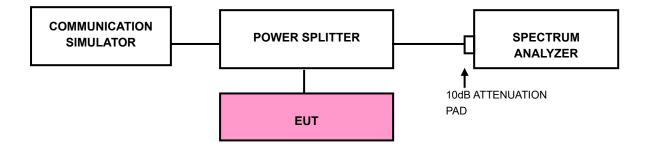
Please Refer to Appendix of this test report.

3.4.1 LIMITS OF EMISSION MASK MEASUREMENT

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.4.2 TEST SETUP



- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) ≥ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\ge 3 \times RBW$.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix of this test report.

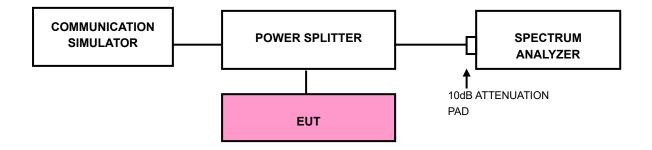
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

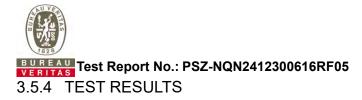
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





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

Please Refer to Appendix of this test report.

3.6.1 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 43 +10 log10(P) dB. The limit of emission equal to -13dBm

3.6.2 TEST PROCEDURES

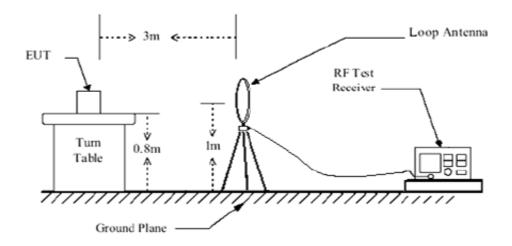
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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. 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.P.R power 2.15dBi.

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

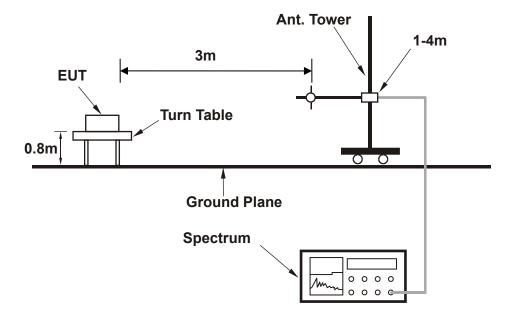
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

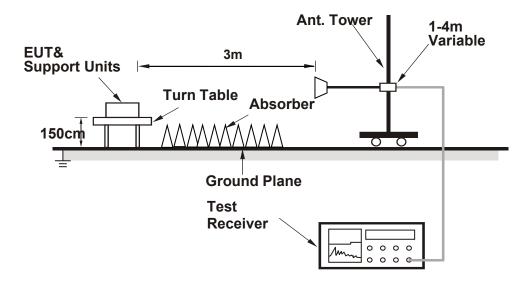
<Below 30MHz>



< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >



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

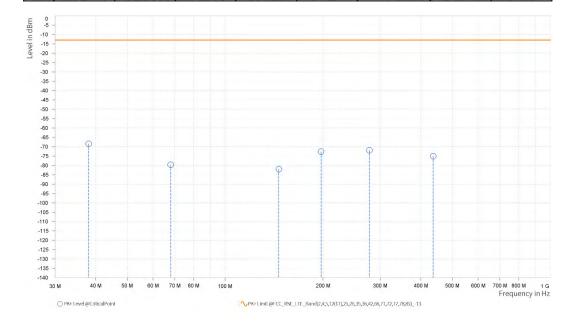
BELOW 1GHz WORST-CASE DATA

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

LTE Band 26 CHANNEL BANDWIDTH: 1.4MHz / QPSK								
MODE TX channel 23330 FREQUENCY RANGE 30 MHz ~ 1GHz								
ENVIRONMENTAL CONDITIONS	123ded C. 70%RH INPILL POWER TAC: 1207 60H7							
TESTED BY	TESTED BY Hanwen Xu							

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	38.050	-68.42	-13.00	55.42	-0.19	H. H.	101	2.00
1	68.000	-79.63	-13.00	66.63	-10.28	н	359	2.00
1	146.350	-81.94	-13.00	68.94	-14.78	H	359	2.00
1	197.350	-72.59	-13.00	59.59	-5.95	н	1.5	2.00
1	277.850	-71.86	-13.00	58.86	-1.47	Н	147.9	2.00
1	436.600	-75.07	-13.00	62.07	2.21	H	198.9	1.00





MODE	TX channel 23330	FREQUENCY RANGE	30 MHz ~ 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	34.550	-73.94	-13.00	60.94	-9.79	V	359.1	1.00
1	81.700	-62.87	-13.00	49.87	-10.14	V	350.4	2.00
1	109.050	-56.86	-13.00	43.86	1.15	V	134.8	2.00
1	159.550	-68.31	-13.00	55.31	-11.34	٧	134.8	2.00
1	293.750	-69.48	-13.00	56.48	-1.56	V	182.2	1.00
1	390.950	-72.72	-13.00	59.72	0.35	٧	182.2	1.00





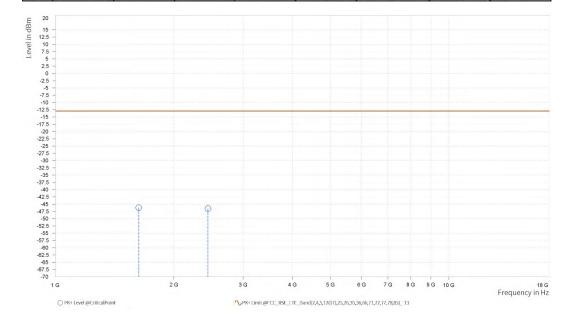
ABOVE 1GHz

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

LTE BAND 26						
CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26697			
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH			
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,628.140	-46.20	-13.00	33.20	17.99	Н	1.9	2.00
3	2,442.210	-46.52	-13.00	33.52	24.53	Н	359	2.00

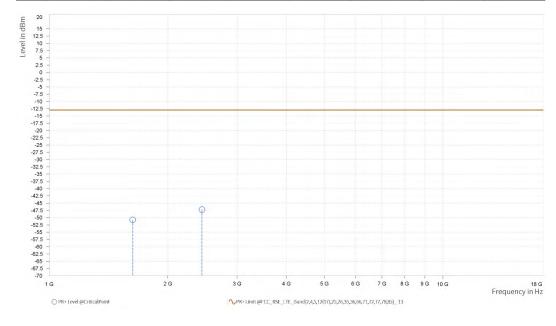




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26697
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,628.140	-50.74	-13.00	37.74	17.70	٧	358	1.00
3	2,442.210	-47.21	-13.00	34.21	24.37	٧	218.2	2.00

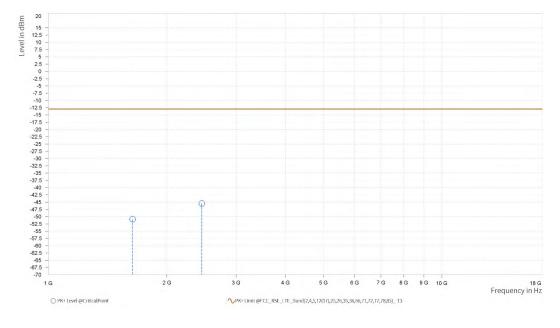




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,636.740	-50.85	-13.00	37.85	18.28	Н	293.5	2.00
3	2,455.110	-45.45	-13.00	32.45	24.69	Н	1	1.00

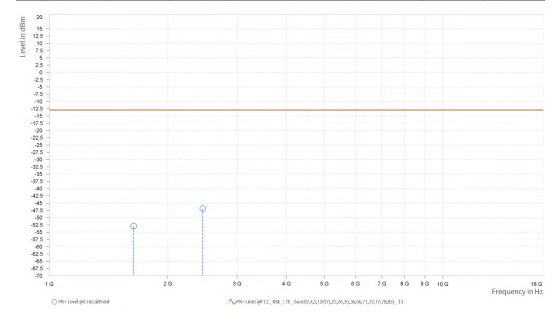




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Ahove 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,636.740	-52.92	-13.00	39.92	17.90	٧	293.6	2.00
3	2,455.110	-46.86	-13.00	33.86	24.47	V	229.1	2.00

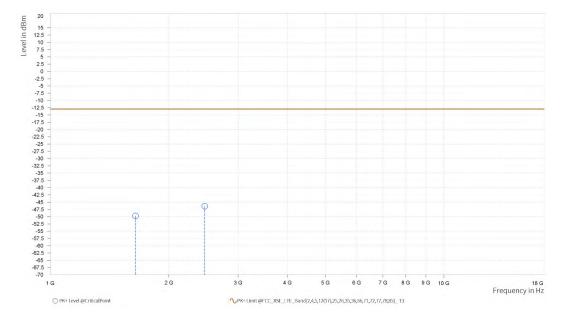




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26783
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,645.340	-49.76	-13.00	36.76	18.57	Н	359	2.00
3	2,468.010	-46.43	-13.00	33.43	24.52	Н	1	1.00

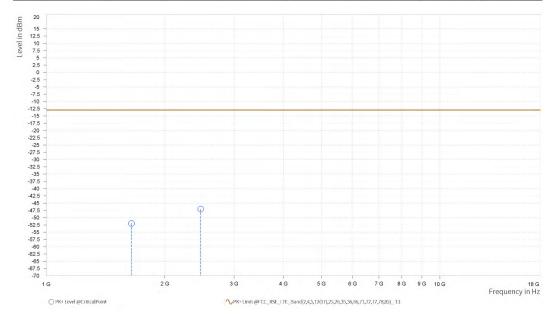




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26783
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,645.340	-51.98	-13.00	38.98	18.08	٧	291.1	2.00
3	2,468.010	-47.01	-13.00	34.01	24.24	٧	138.2	1.00

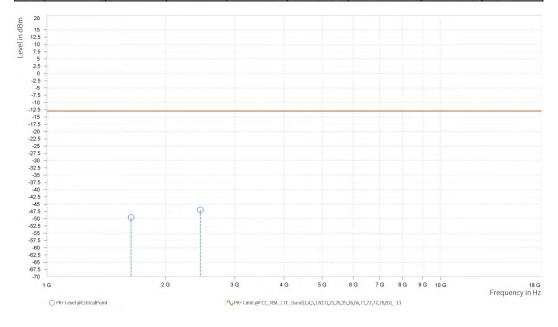




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,635.300	-49.59	-13.00	36.59	18.24	Н	359	2.00
3	2,452.950	-46.96	-13.00	33.96	24.59	Н	229	2.00

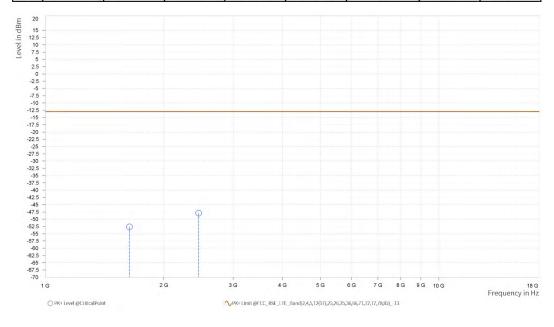




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Ahove 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,635.300	-52.65	-13.00	39.65	17.87	٧	359.1	1.00
3	2,452.950	-47.93	-13.00	34.93	24.38	V	1	1.00

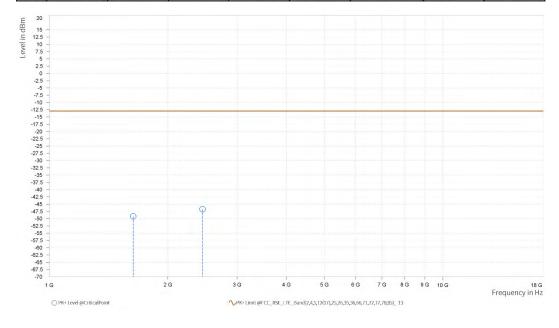




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Ahove 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-49.21	-13.00	36.21	18.16	Н	1.2	2.00
3	2,450.250	-46.73	-13.00	33.73	24.45	Н	359	2.00

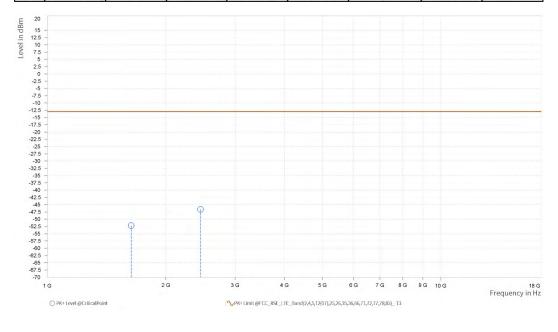




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Ahove 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-52.22	-13.00	39.22	17.81	٧	1	1.00
3	2,450.250	-46.60	-13.00	33.60	24.24	٧	1	1.00

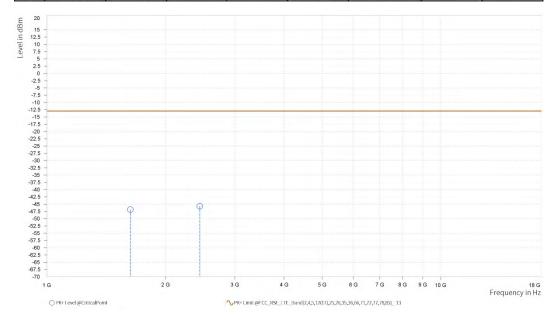




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,629.000	-46.85	-13.00	33.85	17.99	Н	226.6	2.00
3	2,443.500	-45.70	-13.00	32.70	24.52	Н	1	1.00

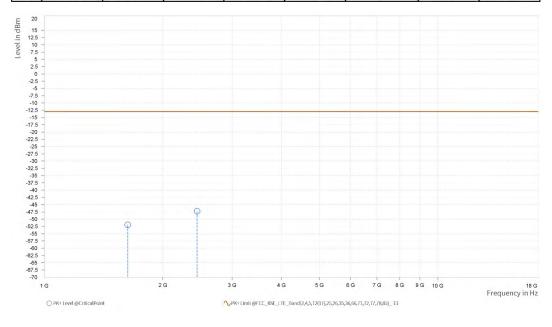




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Ahove 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,629.000	-51.95	-13.00	38.95	17.70	٧	1	1.00
3	2,443.500	-47.29	-13.00	34.29	24.34	V	1	2.00

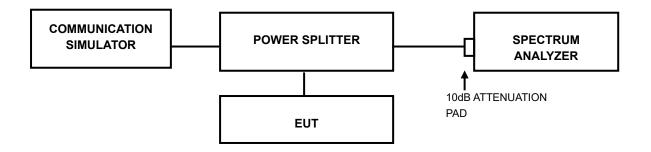


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.

4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd. Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province Accredited Test Lab Cert 6613.01

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

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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

No modifications were made to the EUT by the lab during the test.

LTE-BAND26

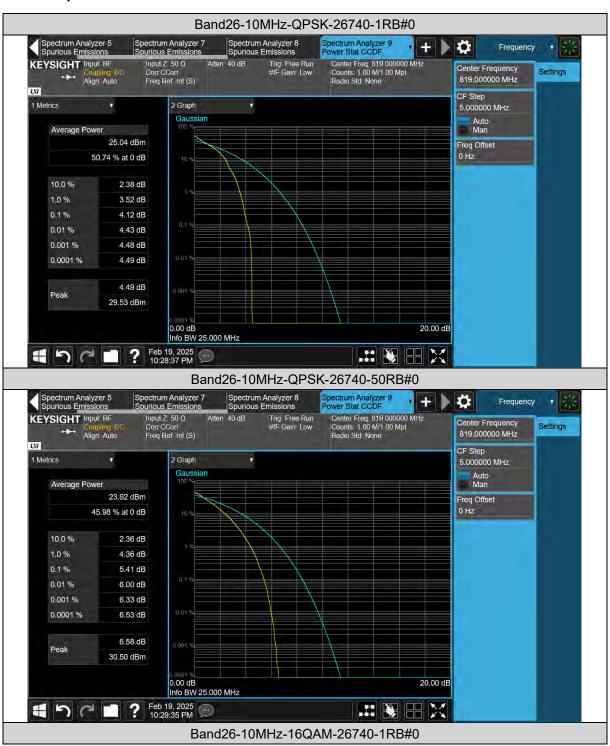
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	1RB#0	4.12	13	PASS
Band26	10MHz	QPSK	26740	50RB#0	5.41	13	PASS
Band26	10MHz	16QAM	26740	1RB#0	5.06	13	PASS
Band26	10MHz	16QAM	26740	27RB#0	5.89	13	PASS



Test Graphs







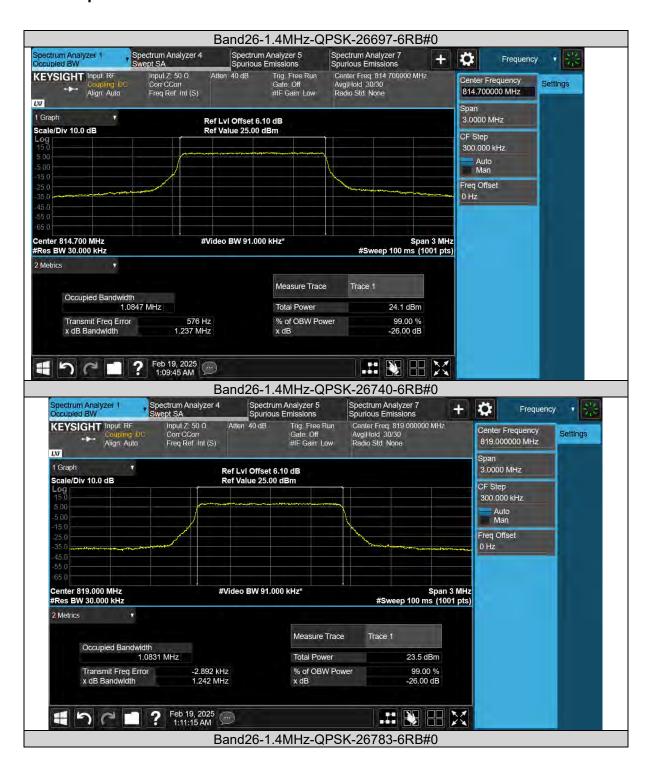
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

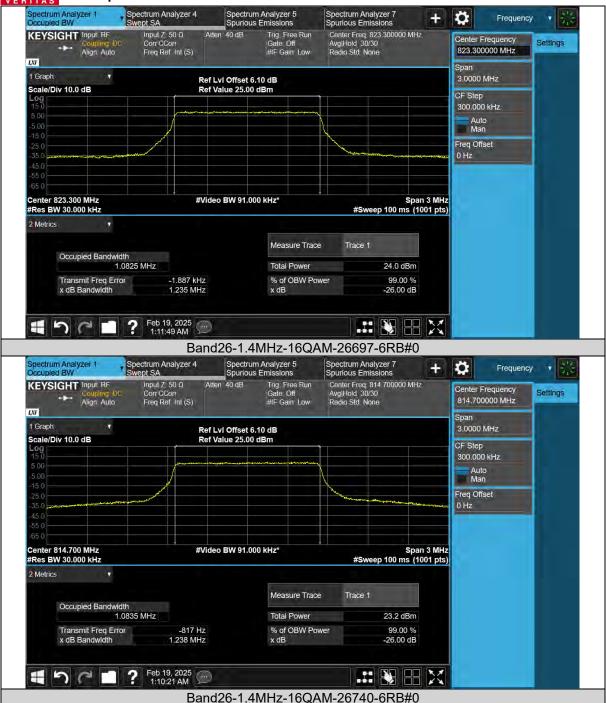
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.085	1.237	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.083	1.242	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.083	1.235	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.084	1.238	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.082	1.235	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.083	1.244	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.683	2.877	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.683	2.885	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.688	2.884	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.686	2.876	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.685	2.876	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.684	2.878	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.478	4.773	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.484	4.776	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.481	4.769	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.472	4.775	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.484	4.798	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.479	4.802	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.957	9.512	PASS
Band26	10MHz	16QAM	26740	27RB#0	4.811	5.214	PASS



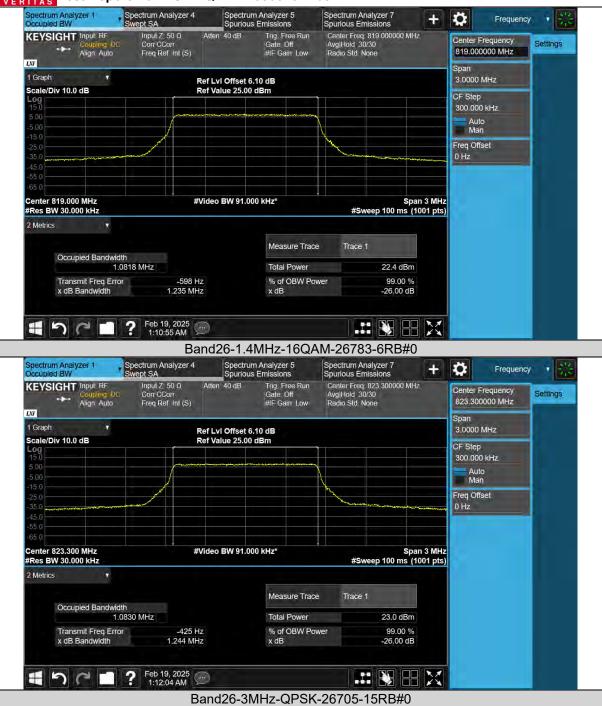
Test Graphs



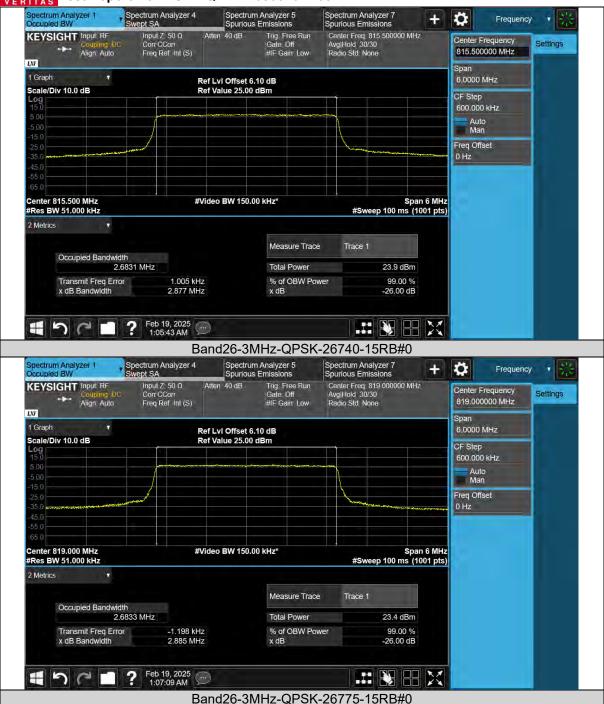




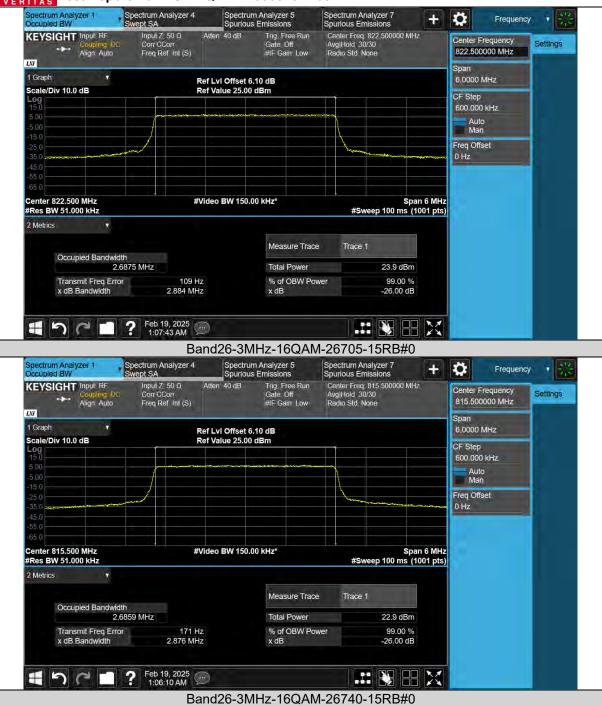




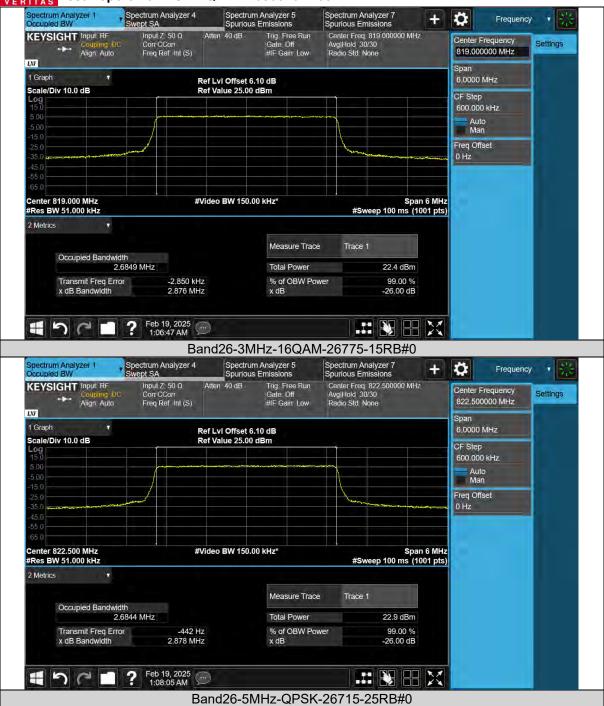




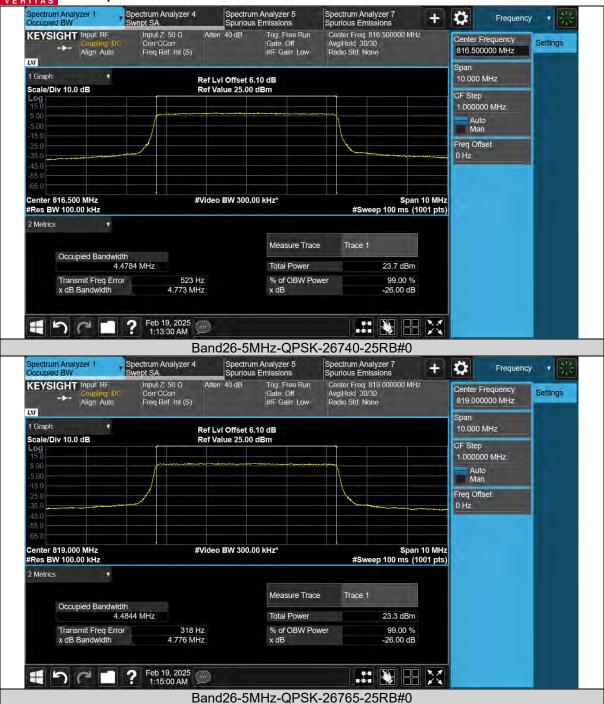




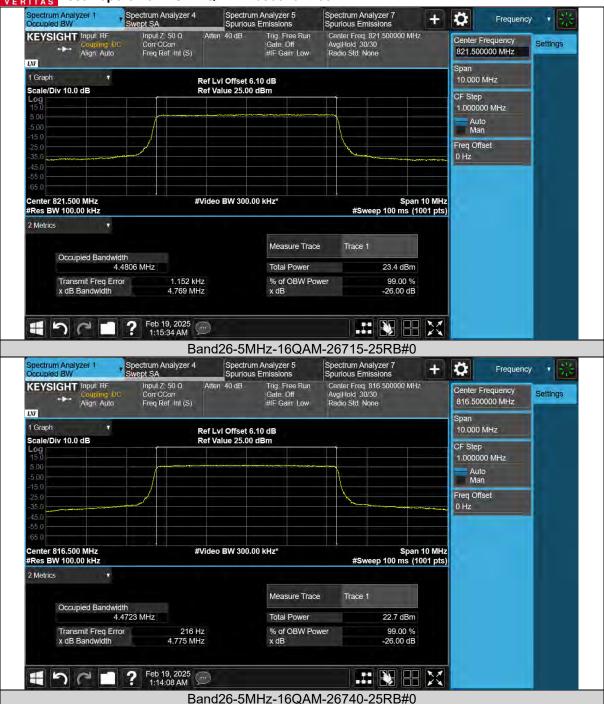








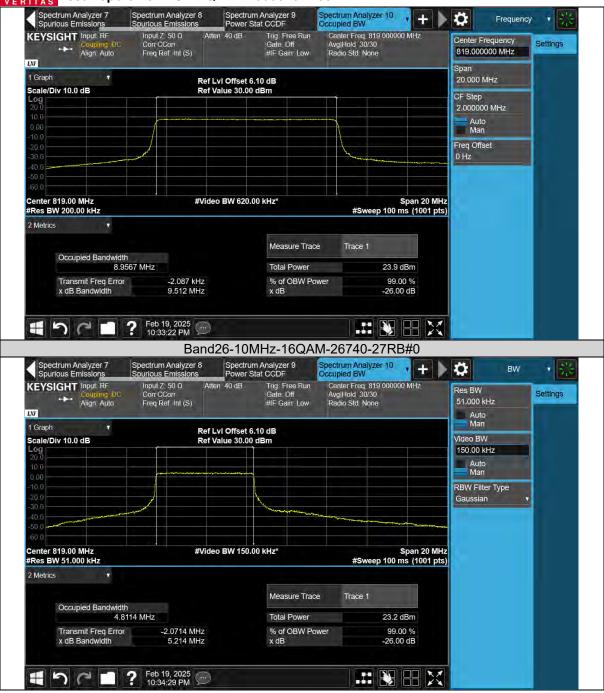












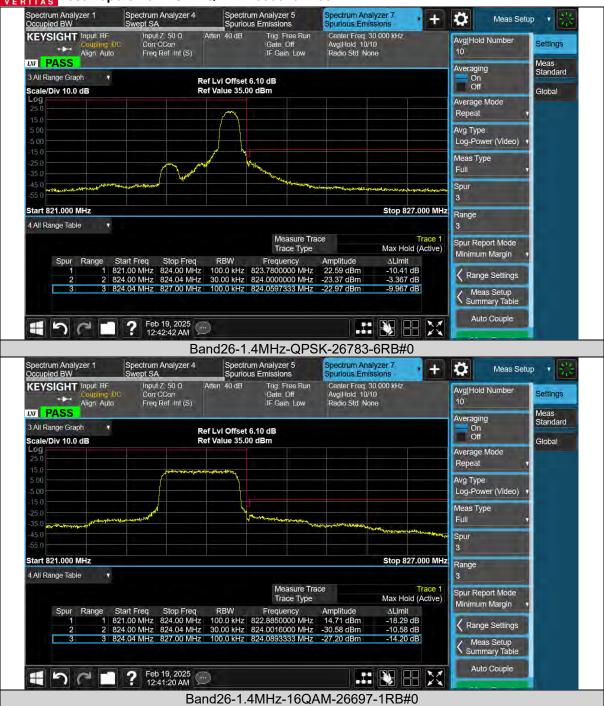
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	See Graph	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	See Graph	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	See Graph	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	See Graph	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	See Graph	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	See Graph	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	See Graph	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	See Graph	PASS
Band26	3MHz	QPSK	26705	1RB#0	See Graph	PASS
Band26	3MHz	QPSK	26705	15RB#0	See Graph	PASS
Band26	3MHz	QPSK	26775	1RB#14	See Graph	PASS
Band26	3MHz	QPSK	26775	15RB#0	See Graph	PASS
Band26	3MHz	16QAM	26705	1RB#0	See Graph	PASS
Band26	3MHz	16QAM	26705	15RB#0	See Graph	PASS
Band26	3MHz	16QAM	26775	1RB#14	See Graph	PASS
Band26	3MHz	16QAM	26775	15RB#0	See Graph	PASS
Band26	5MHz	QPSK	26715	1RB#0	See Graph	PASS
Band26	5MHz	QPSK	26715	25RB#0	See Graph	PASS
Band26	5MHz	QPSK	26765	1RB#24	See Graph	PASS
Band26	5MHz	QPSK	26765	25RB#0	See Graph	PASS
Band26	5MHz	16QAM	26715	1RB#0	See Graph	PASS
Band26	5MHz	16QAM	26715	25RB#0	See Graph	PASS
Band26	5MHz	16QAM	26765	1RB#24	See Graph	PASS
Band26	5MHz	16QAM	26765	25RB#0	See Graph	PASS
Band26	10MHz	QPSK	26740	1RB#0	See Graph	PASS
Band26	10MHz	QPSK	26740	1RB#49	See Graph	PASS
Band26	10MHz	QPSK	26740	50RB#0	See Graph	PASS
Band26	10MHz	16QAM	26740	1RB#0	See Graph	PASS
Band26	10MHz	16QAM	26740	1RB#49	See Graph	PASS
Band26	10MHz	16QAM	26740	27RB#0	See Graph	PASS
Band26	10MHz	16QAM	26740	27RB#23	See Graph	PASS

Test Graphs



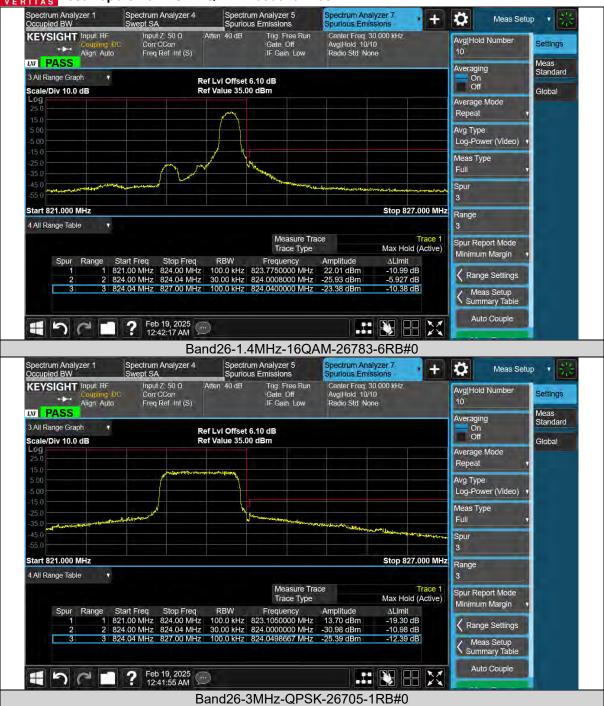




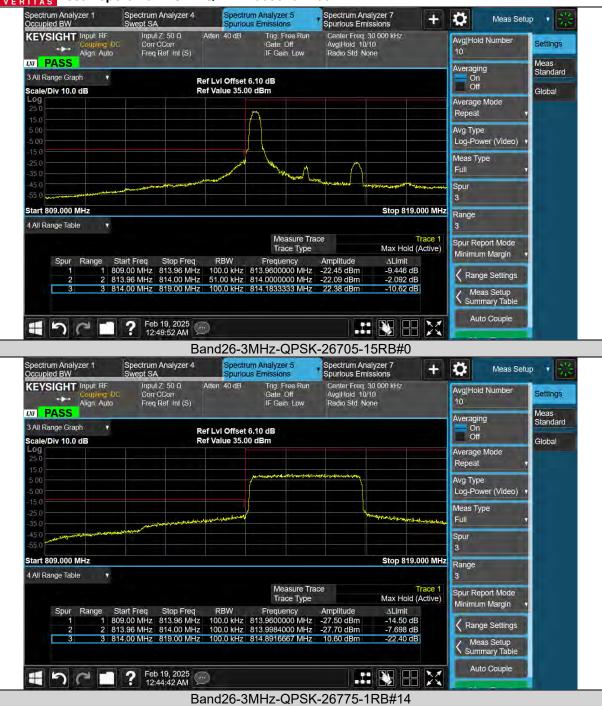




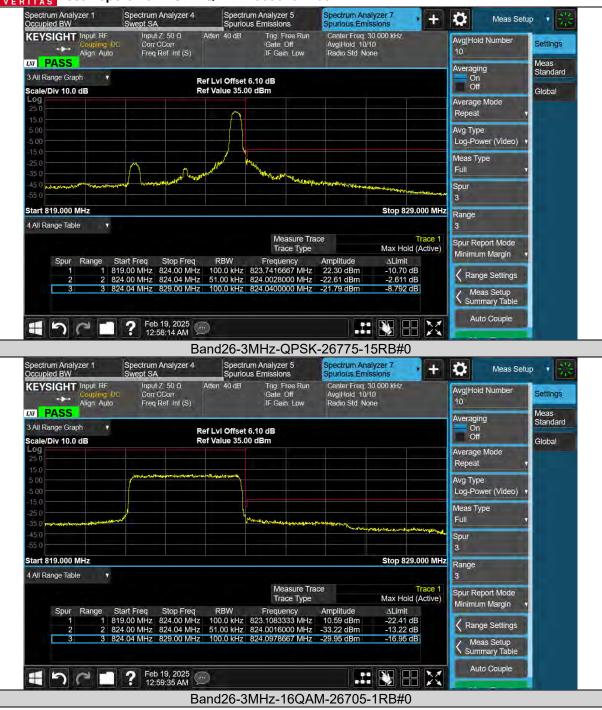




















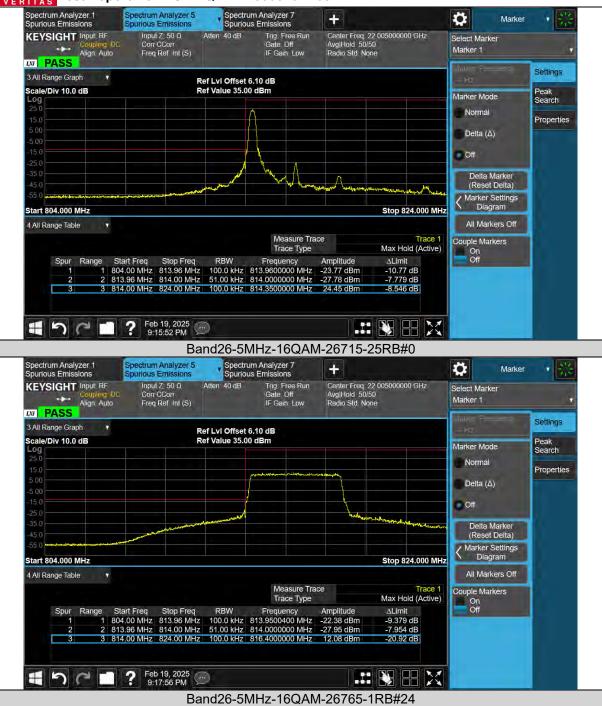












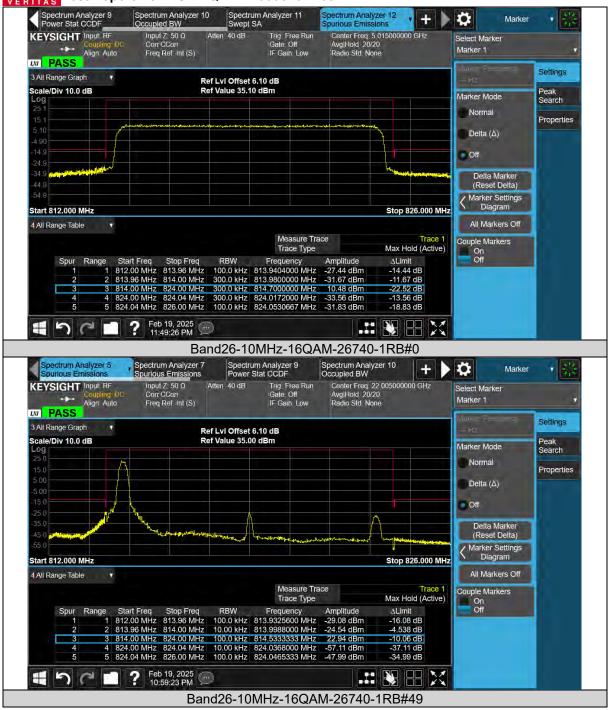




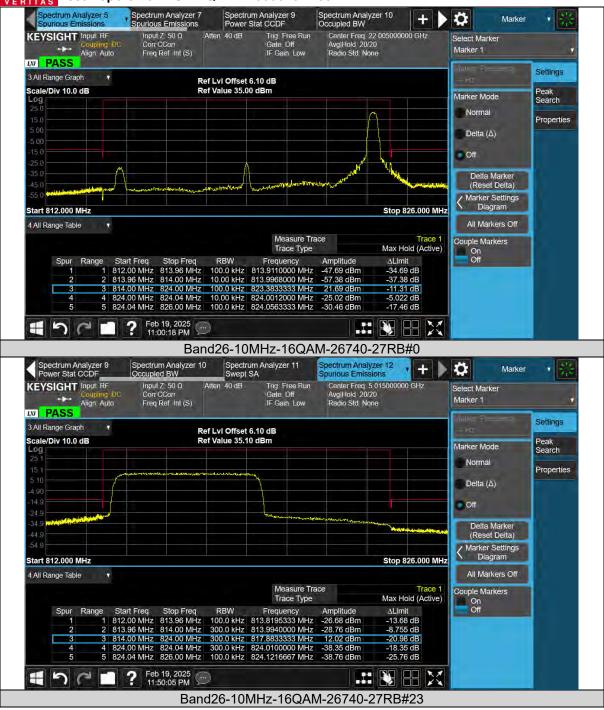




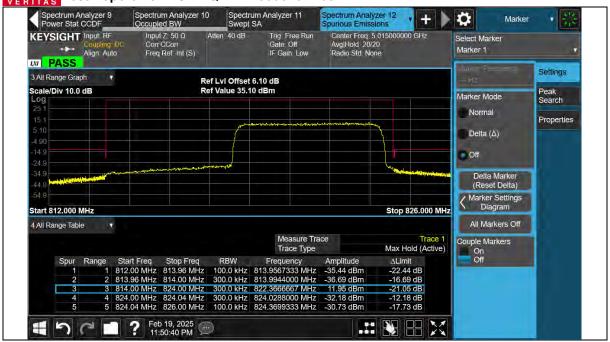










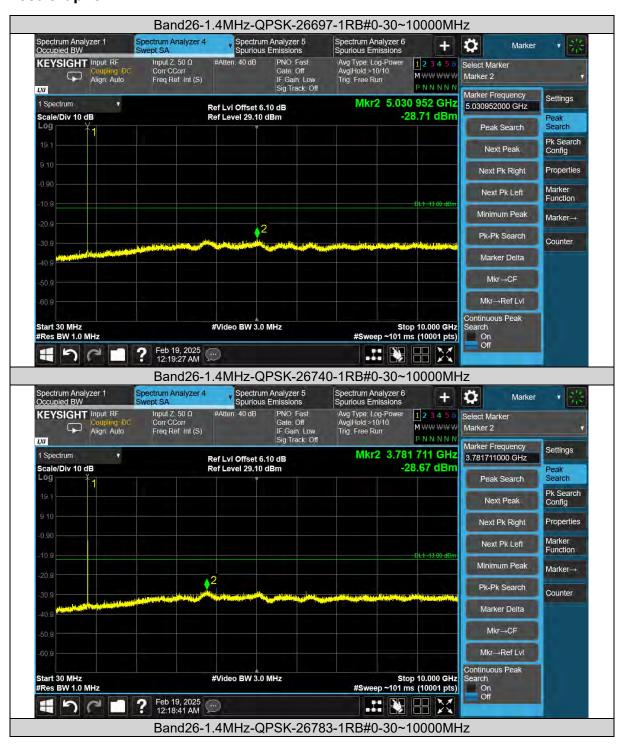


CONDUCTED SPURIOUS EMISSION

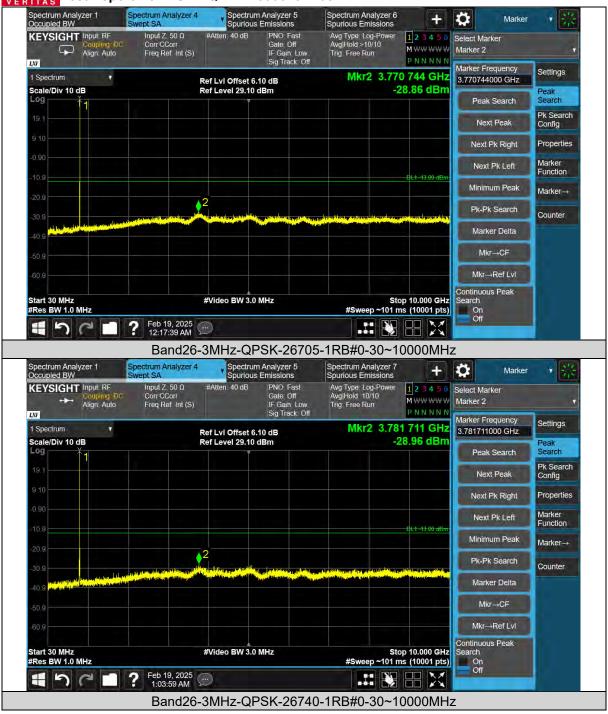
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuratio n	Frequency Range	Result (dBm)	Verdict	
Band26	1.4MHz	QPSK	26697	1RB#0	30~10000MHz	See Graph	PASS	
Band26	1.4MHz	QPSK	26740	1RB#0	30~10000MHz	See Graph	PASS	
Band26	1.4MHz	QPSK	26783	1RB#0	30~10000MHz See Graph		PASS	
Band26	3MHz	QPSK	26705	1RB#0	30~10000MHz	See Graph	PASS	
Band26	3MHz	QPSK	26740	1RB#0	30~10000MHz	See Graph	PASS	
Band26	3MHz	QPSK	26775	1RB#0	30~10000MHz	See Graph	PASS	
Band26	5MHz	QPSK	26715	1RB#0	30~10000MHz	See Graph	PASS	
Band26	5MHz	QPSK	26740	1RB#0	30~10000MHz	30~10000MHz See Graph		
Band26	5MHz	QPSK	26765	1RB#0	30~10000MHz	See Graph	PASS	
Band26	10MHz	QPSK	26740	1RB#0	30~10000MHz	See Graph	PASS	

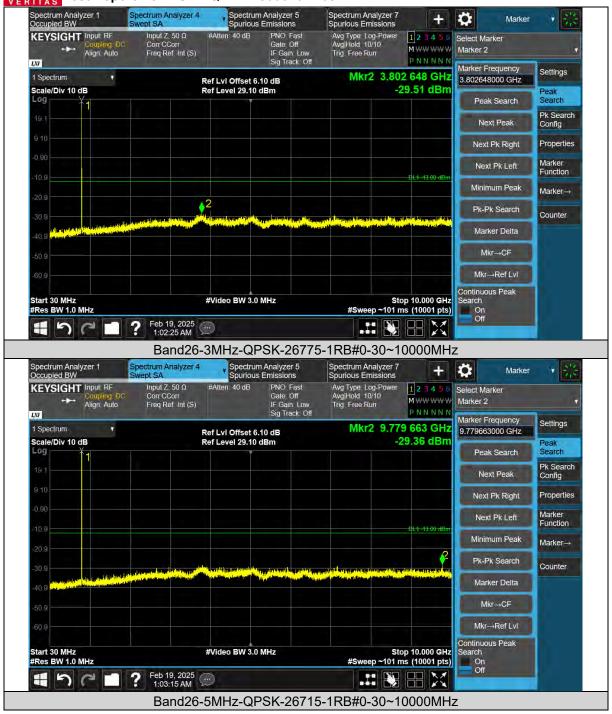
Test Graphs



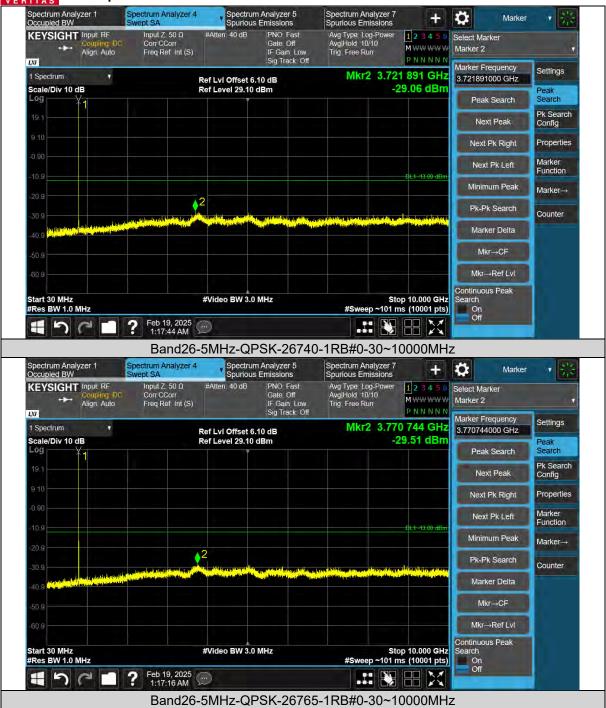




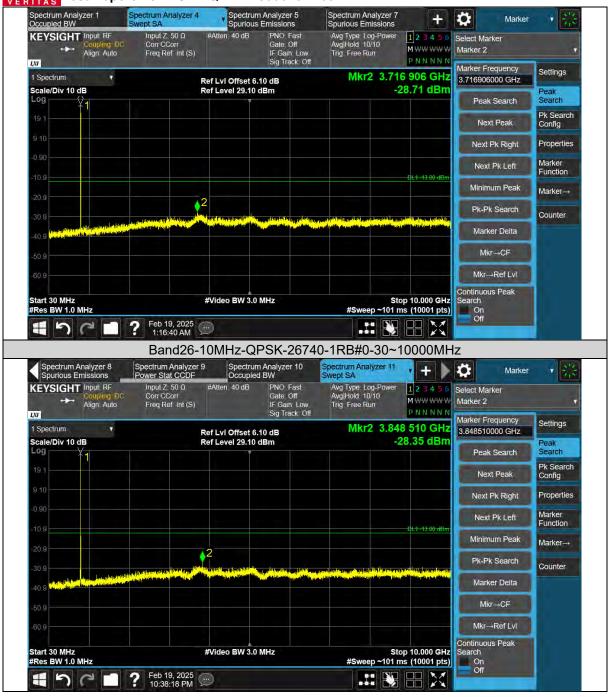












FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidt h	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	LV	NT	-12.3	-0.015018	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	NT	8.8	0.010745	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	HV	NT	6.7	0.008181	±2.5	PASS

Temperature										
Band	Bandwidt h	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-6.6	-0.008059	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-24.5	-0.029915	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-12	-0.014652	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-21.6	-0.026374	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	6.6	0.008059	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-5.8	-0.007082	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	10.6	0.012943	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-9.9	-0.012088	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	15.6	0.019048	±2.5	PASS

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result	
$fL ext{-} MAX(\trianglef) $	814.506107	≥814	PASS	
fH+ MAX(△f)	823.493893	€824		

Note : 1. $|MAX(\triangle f)| = Max Deviation$

2. fL = Occ low edge fl(-13dBm/MHz)

3. fH = Occ High edge fH(-13dBm/MHz)

4. $|MAX(\triangle f)| = 7.15Hz$.

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