



Test Report No.: PSU-QBJ2512030110RF06



FCC TEST REPORT (PART 96)

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 500, Alpharetta, GA 30005
Product:	Redcap Module
Brand Name:	FOXX
Model Name:	IQ50
FCC ID:	2AQRM-IQ50
Date of tests:	Dec. 05, 2025 ~Dec. 31, 2025

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

☒ **47 CFR FCC Part 96**

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: Jan. 12, 2026	Date: Jan. 12, 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.	DESCRIPTION	DATE ISSUED
PSU-QBJ2512030110RF01	Original release	Jan. 12, 2026



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1 SUMMARY OF TEST RESULTS

47 CFR FCC PART 96		
FCC CLAUSE	TEST ITEM	RESULT
2.1046 96.41(b)	Maximum Peak Output Power and Maximum EIRP	Compliance
2.1046 96.41(e)	Conducted Band Edge	Compliance
2.1049	Occupied Bandwidth	Compliance
2.1055	Frequency Stability	Compliance
2.1051 96.41(e)	Conducted Spurious Emissions	Compliance
2.1053 96.41(e)	Radiated Spurious Emissions	Compliance
96.41(g)	Peak-to-Average Power Ratio	Compliance

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

*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.



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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
Effective Radiated Power	±1.48dB
Frequency Stability	±39.27Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01 dB
Occupied Channel Bandwidth	±21.7KHz
Band Edge Measurements	±1.48dB
Peak to average ratio	±0.76dB

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



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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	Jun.03,25	Jun.02,26
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	Jun.19,25	Jun.18,26
Horn Antenna	SCHWARZBECK	BBHA9170	1426	Jun.03,25	Jun.02,26
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	Jun.03,25	Jun.02,26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	Jun.21,25	Jun.20,26
Preamplifier	Tonscend	TPA184045	AP24L8060388	Jun.03,25	Jun.02,26
MXE EMI Receiver	Keysight	N9038B	MY50018017	Jun.03,25	Jun.02,26
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	Jun.03,25	Jun.02,26
Preamplifier	Tonscend	TPA001330	806JSAPO 40804251015	Jun.03,25	Jun.02,26
Preamplifier	Tonscend	TPA011845	AP24L8060392	Jun.03,25	Jun.02,26
Comb-shaped signal source	ICEM	YCG-151-R	18CG0146	Jun.03,25	Jun.02,26
Comb-shaped signal source	ICEM	YCG-181-R	25CG0150	Jun.03,25	Jun.02,26
Attenuator 6DB	SHX	TS2-6-6-A	230927166	Jun.03,25	Jun.02,26
Attenuator 6DB	SHX	TS2-6-6-A	230927165	Jun.02,25	Jun.01,26
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	Dec.01,25	Nov.30,26
Low pass FILTER	EWT	EWT-56-0649	EWT-56-0649	Jun.03,25	Jun.02,26
NOTCH FILTER_700B	EWT	EWT-54-0098	EWT-54-0098	Jun.03,25	Jun.02,26
NOTCH FILTER_B2B4	EWT	EWT-14-0012	EWT-14-0012	Jun.03,25	Jun.02,26
NOTCH FILTER_B20	EWT	EWT-14-0415	EWT-14-0415	Jun.03,25	Jun.02,26
NOTCH FILTER_B38	EWT	EWT-14-0416	EWT-14-0416	Jun.03,25	Jun.02,26
NOTCH FILTER_B7	EWT	EWT-14-0412	EWT-14-0412	Jun.03,25	Jun.02,26
NOTCH FILTER_B41	EWT	EWT-14-0474	EWT-14-0474	Jun.03,25	Jun.02,26
NOTCH FILTER_B40	Warrison	WFIL N2300~2400	WFIL N2300~2400	Jun.03,25	Jun.02,26
Temp. & Humi. Recorder	Kejian	HTC-01	157246	Jun.03,25	Jun.02,26
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	Jun.03,25	Jun.02,26
NOTCH FILTER_B5B26	EWT	EWT-54-0037	EWT-54-0037	Jun.03,25	Jun.02,26
HIGH pass FILTER_7-	EWT	EWT-57-0223	EWT-57-0223	Jun.03,25	Jun.02,26

Boomwave Test (Shenzhen) co., Ltd.

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HIGH pass FILTER_3-18	/	ZHPF6-C3000-18000-174	11204646	Jun.03,25	Jun.02,26
10dB Attenuator	WEINSCHHEL	3M-10	25691	Jun.02,25	Jun.01,26
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	Jun.03,25	Jun.02,26
10dB Attenuator	WEINSCHHEL	3M-10	25691	Jun.02,25	Jun.01,26
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	Jun.03,25	Jun.02,26
Low pass FILTER	EWT	EWT-56-0649	S1	Jun.03,25	Jun.02,26
10dB Attenuator	WEINSCHHEL	3M-10	47593	Jun.02,25	Jun.01,26
Cable 1	N/A	N/A	N/A	N/A	N/A
Cable 2	N/A	N/A	N/A	N/A	N/A
Cable 3	N/A	N/A	N/A	N/A	N/A
RF Control Unit	Tonscend	JS0806-1	21K8060504	Jul.03,25	Jul.02,26
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	Jul.03,25	Jul.02,26
Wireless communication integrated tester	Rohde&Schwarz	CMW500	1201.0002K50-1sB2016-Kz	Jul.03,25	Jul.02,26
RF Control Unit	Tonscend	JS0806-1	23K80610751	Jul.03,25	Jul.02,26
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110626	Jul.03,25	Jul.02,26

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/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.



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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Redcap Module	
BRAND NAME	FOXX	
MODEL NAME	IQ50	
NOMINAL VOLTAGE	3.8Vdc	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	LTE Band 42 Channel Bandwidth: 5MHz	3552.5 MHz ~ 3597.5MHz
	LTE Band 42 Channel Bandwidth: 10MHz	3555MHz ~ 3595MHz
	LTE Band 42 Channel Bandwidth: 15MHz	3557.5MHz ~ 3592.5MHz
	LTE Band 42 Channel Bandwidth: 20MHz	3560MHz ~ 3590MHz
	LTE Band 43 Channel Bandwidth: 5MHz	3602.5MHz ~ 3697.5MHz
	LTE Band 43 Channel Bandwidth: 10MHz	3605MHz ~ 3695MHz
	LTE Band 43 Channel Bandwidth: 15MHz	3607.5MHz ~ 3692.5MHz
	LTE Band 43 Channel Bandwidth: 20MHz	3610MHz ~ 3690MHz
	LTE Band 48 Channel Bandwidth: 5MHz	3552.5MHz ~ 3697.5MHz
	LTE Band 48 Channel Bandwidth: 10MHz	3555MHz ~ 3695MHz
	LTE Band 48 Channel Bandwidth: 15MHz	3557.5MHz ~ 3692.5MHz
	LTE Band 48 Channel Bandwidth: 20MHz	3560MHz ~ 3690MHz
EMISSION DESIGNATOR	LTE Band 48 Channel Bandwidth: 5MHz	QPSK: 4M53G7D
		16QAM: 4M52W7D
		64QAM: 4M53W7D
	LTE Band 48 Channel Bandwidth: 10MHz	QPSK: 9M04G7D
		16QAM: 9M03W7D
		64QAM: 9M02W7D
	LTE Band 48 Channel Bandwidth: 15MHz	QPSK: 13M6G7D
		16QAM: 13M6W7D
		64QAM: 13M6W7D
	LTE Band 48 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
		64QAM: 18M1W7D



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MAX. EIRP POWER	LTE Band 42 Channel Bandwidth: 5MHz	189.23mW
	LTE Band 42 Channel Bandwidth: 10MHz	188.80mW
	LTE Band 42 Channel Bandwidth: 15MHz	193.64mW
	LTE Band 42 Channel Bandwidth: 20MHz	196.34mW
	LTE Band 43 Channel Bandwidth: 5MHz	185.35mW
	LTE Band 43 Channel Bandwidth: 10MHz	184.08mW
	LTE Band 43 Channel Bandwidth: 15MHz	187.50mW
	LTE Band 43 Channel Bandwidth: 20MHz	190.11mW
	LTE Band 48 Channel Bandwidth: 5MHz	192.31mW
	LTE Band 48 Channel Bandwidth: 10MHz	196.34mW
	LTE Band 48 Channel Bandwidth: 15MHz	193.20mW
	LTE Band 48 Channel Bandwidth: 20MHz	197.24mW
ANTENNA GAIN	☒ Provided by client	
	LTE BAND42	-0.63dBi
	LTE BAND43	-0.77dBi
	LTE BAND48	-0.63dBi
ANTENNA TYPE	External Antenna	
HW VERSION	SRM813Q-NA_MB_V1.00	
SW VERSION	SRM813Q-NA_2.0.2_EQ100	
I/O PORTS	Refer to user's manual	
DATA CABLE	N/A	
EXTREME TEMPERATURE	-40°C~85°C	
EXTREME VOLTAGE	3.3V~4.35V	

NOTE:

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

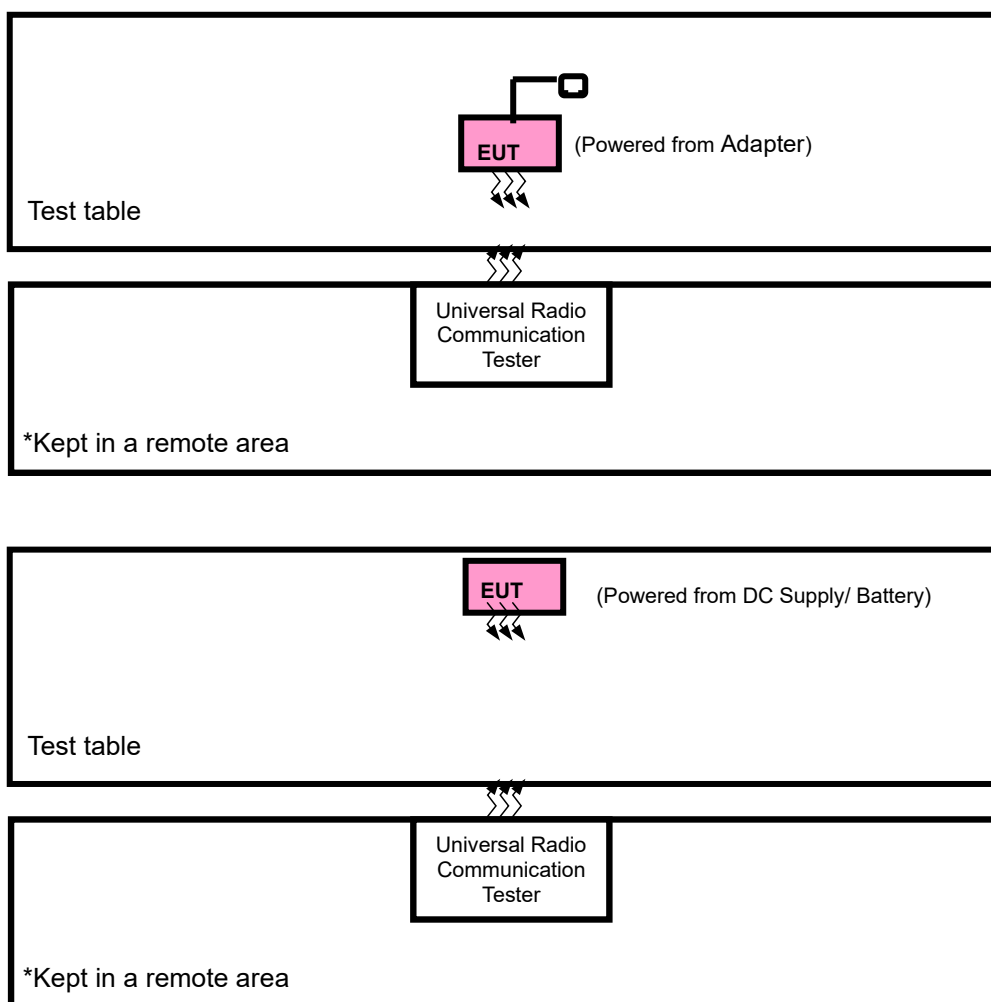
MODULATION MODE	TX FUNCTION
LTE	1TX/2RX



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3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. For Band Edge and Emission Mask: The all BW combinations were tested. Combination pairs of the same BW are considered generally equivalent. The RB combinations were selected such that the signal is active closest to the band limit, as this is the worst case.
5. For Out of Band Emissions: The all combination was tested. The highest power RB combination was selected as worst case.

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST





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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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A
3	Adapter	N/A	N/A	N/A	N/A
4	USB Cable	N/A	N/A	N/A	N/A

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

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	EUT + Adapter + USB Cable with LTE link
B	EUT + DC Supply with LTE link



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LTE band 42						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	43115 to 43565	43115 (3552.5MHz), 43340 (3575.0MHz), 43565 (3597.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43140 to 43540	43140 (3555.0MHz), 43340 (3575.0MHz), 43540 (3595.0MHz)	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43165 to 43515	43165 (3557.50MHz), 43340 (3575.0MHz), 43515 (3592.5MHz)	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43190 to 43490	43190 (3560.0MHz), 43340 (3575.0MHz), 43490 (3590.0MHz)	20MHz	QPSK, 16QAM, 64QAM	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 42 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48



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LTE band 43						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	43615 to 44565	43615 (3602.5MHz), 44090 (3650.0MHz), 44565 (3697.5MHz)	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43640 to 44540	43640 (3605.0MHz), 44090 (3650.0MHz), 44540 (3695.0MHz)	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43665 to 44515	43665 (3607.5MHz), 44090 (3650.0MHz), 44515 (3692.5MHz)	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		43690 to 44490	43690 (3610.0MHz), 44090 (3650.0MHz), 44490 (3690.0MHz)	20MHz	QPSK, 16QAM, 64QAM	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 43 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48.



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LTE BAND 48 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	55340 to 56640	55290, 55990, 56690	10MHz	QPSK	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	55265 to 56715	55265, 55990, 56715	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50RB / 0 RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 75RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 100RB / 0 RB Offset
A	BAND EDGE	55265 to 56715	55265	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			56715	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		55290 to 56690	55290	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			56690	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		55315 to 56665	55315	15MHz	QPSK, 16QAM,	1 RB / 0 RB Offset



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					64QAM	75 RB / 0 RB Offset
			56665	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB Offset
		55340 to 56640	55340	20MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset
						1 RB / 0 RB Offset
			56640	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset
						1 RB / 99 RB Offset
A	CONDCUETED EMISSION	55265 to 56715	55265, 55990, 56715	5MHz	QPSK	100 RB / 0 RB Offset
		55290 to 56690	55290, 55990, 56690	10MHz	QPSK	1 RB / 0 RB Offset
		55315 to 56665	55315, 55990, 56665	15MHz	QPSK	1 RB / 0 RB Offset
		55340 to 56640	55340, 55990, 56640	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	55265 to 56715	55265, 55990, 56715	5MHz	QPSK	1 RB / 0 RB Offset
		55290 to 56690	55990	10MHz	QPSK	1 RB / 0 RB Offset
		55315 to 56665	55990	15MHz	QPSK	1 RB / 0 RB Offset
		55340 to 56640	55990	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
ERP&EIRP	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.3V/ 3.8V/ 4.35V By DC Source	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
CONDCUETED EMISSION	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	AC120V/60Hz	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu



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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 96

KDB 971168 D02 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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



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3 TEST TYPES AND RESULTS

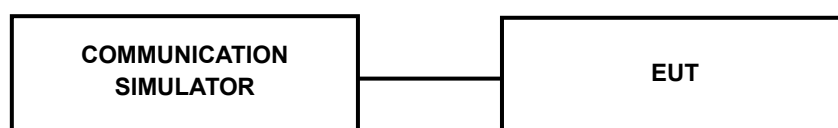
3.1 MAXIMUM EIRP MEASUREMENT

3.1.1 LIMITS OF MAXIMUM EIRP MEASUREMENT

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

3.1.2 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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



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3.1.3 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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

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);

L_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.

Note: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



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3.1.5 TEST RESULTS

4 LTE band 42 Part96						
Band/BW	Modulation	RB Size	RB Offset	Low CH (43115) Frequency (3552.5)MHz	Mid CH(43340) Frequency (3575)MHz	High CH(43565) Frequency (3597.5)MHz
42/ 5	QPSK	1	0	23.02	23.12	23.23
		1	12	23.28	23.36	23.40
		1	24	23.08	23.31	23.35
		12	0	21.92	21.98	22.23
		12	6	21.95	22.17	22.30
		12	13	21.83	21.95	22.34
		25	0	22.05	22.14	22.30
	16QAM	1	0	22.06	22.12	22.37
		1	12	22.28	22.44	22.61
		1	24	22.33	22.25	22.54
		12	0	20.97	21.09	21.13
		12	6	21.14	21.24	21.29
		12	13	21.10	21.11	21.48
		25	0	21.12	21.27	21.60
	64QAM	1	0	21.17	21.15	21.56
		1	12	21.24	21.54	21.61
		1	24	21.16	21.35	21.38
		12	0	20.11	19.91	20.35
		12	6	20.10	20.09	20.33
		12	13	20.14	20.12	20.22
		25	0	20.23	20.36	20.50
Band/BW	Modulation	RB Size	RB Offset	Low CH(43140) Frequency (3555)MHz	Mid CH(43340) Frequency (3575)MHz	High CH(43540) Frequency (3595)MHz
42/ 10	QPSK	1	0	23.02	23.12	23.23
		1	12	23.28	23.36	23.40
		1	24	23.08	23.31	23.35
		12	0	21.92	21.98	22.23
		12	6	21.95	22.17	22.30
		12	13	21.83	21.95	22.34
		25	0	22.05	22.14	22.30
	16QAM	1	0	22.06	22.12	22.37
		1	12	22.28	22.44	22.61
		1	24	22.33	22.25	22.54
		12	0	20.97	21.09	21.13
		12	6	21.14	21.24	21.29
		12	13	21.10	21.11	21.48
		25	0	21.12	21.27	21.60
	64QAM	1	0	21.17	21.15	21.56
		1	12	21.24	21.54	21.61
		1	24	21.16	21.35	21.38
		12	0	20.11	19.91	20.35
		12	6	20.10	20.09	20.33
		12	13	20.14	20.12	20.22
		25	0	20.23	20.36	20.50



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Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	23.06	23.13	23.35
		1	37	23.31	23.38	23.50
		1	74	23.16	23.29	23.45
		36	0	21.80	21.91	22.16
		36	19	21.92	22.01	22.32
		36	39	21.84	22.07	22.31
		75	0	22.01	22.14	22.33
	16QAM	1	0	21.96	22.12	22.29
		1	37	22.20	22.35	22.61
		1	74	22.19	22.39	22.40
		36	0	20.99	20.97	21.13
		36	19	20.96	21.33	21.27
		36	39	21.25	21.13	21.38
		75	0	21.04	21.33	21.42
	64QAM	1	0	21.15	21.18	21.54
		1	37	21.30	21.47	21.43
		1	74	21.14	21.34	21.54
		36	0	20.04	19.88	20.20
		36	19	19.97	20.07	20.33
		36	39	20.01	20.11	20.38
		75	0	20.19	20.27	20.41



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Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	23.12	23.22	23.41
		1	50	23.33	23.42	23.56
		1	99	23.29	23.39	23.50
		50	0	21.93	22.04	22.25
		50	25	22.09	22.16	22.36
		50	50	22.03	22.12	22.35
		100	0	22.15	22.19	22.49
	16QAM	1	0	22.15	22.24	22.49
		1	50	22.41	22.44	22.75
		1	99	22.33	22.45	22.59
		50	0	21.00	21.08	21.25
		50	25	21.14	21.32	21.48
		50	50	21.24	21.27	21.55
		100	0	21.15	21.35	21.60
	64QAM	1	0	21.30	21.22	21.62
		1	50	21.32	21.63	21.60
		1	99	21.31	21.51	21.57
		50	0	20.13	20.03	20.40
		50	25	20.11	20.17	20.35
		50	50	20.15	20.31	20.39
		100	0	20.34	20.37	20.60



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LTE Band 43

Band/BW	Modulation	RB Size	RB Offset	Low CH (43615)	Mid CH (44090)	High CH (44565)
				Frequency (3602.5)MHz	Frequency (3650)MHz	Frequency (3697.5)MHz
43/ 5	QPSK	1	0	23.45	22.82	22.29
		1	12	23.36	22.92	22.35
		1	24	23.28	22.82	22.24
		12	0	22.14	21.77	21.09
		12	6	22.19	21.85	21.23
		12	13	22.22	21.65	21.14
		25	0	22.41	21.76	21.26
	16QAM	1	0	22.49	22.08	21.37
		1	12	22.66	22.19	21.56
		1	24	22.46	21.82	21.41
		12	0	21.46	20.84	20.27
		12	6	21.19	20.82	20.31
		12	13	21.16	20.76	20.18
		25	0	21.40	20.89	20.39
	64QAM	1	0	21.36	20.84	20.41
		1	12	21.45	21.18	20.50
		1	24	21.43	20.84	20.25
		12	0	20.27	20.03	19.38
		12	6	20.42	19.89	19.39
		12	13	20.28	19.73	19.13
		25	0	20.37	20.05	19.50



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Band/BW	Modulation	RB Size	RB Offset	Low CH (43640)	Mid CH (44090)	High CH (44540)
				Frequency (3605)MHz	Frequency (3650)MHz	Frequency (3695)MHz
43/ 10	QPSK	1	0	23.32	22.83	22.31
		1	24	23.42	22.91	22.36
		1	49	23.22	22.75	22.12
		25	0	22.19	21.84	21.28
		25	12	22.34	21.81	21.26
		25	25	22.10	21.66	21.08
		50	0	22.42	21.88	21.15
	16QAM	1	0	22.44	22.09	21.35
		1	24	22.53	21.98	21.50
		1	49	22.31	21.89	21.27
		25	0	21.25	20.84	20.29
		25	12	21.29	20.87	20.28
		25	25	21.18	20.80	20.22
		50	0	21.43	21.03	20.34
	64QAM	1	0	21.53	21.01	20.42
		1	24	21.51	21.16	20.47
		1	49	21.37	20.79	20.41
		25	0	20.34	19.91	19.35
		25	12	20.31	19.91	19.28
		25	25	20.17	19.71	19.05
		50	0	20.34	19.89	19.42



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Band/BW	Modulation	RB Size	RB Offset	Low CH (43665)	Mid CH (44090)	High CH (44515)
				Frequency (3607.5)MHz	Frequency (3650)MHz	Frequency (3692.5)MHz
43/ 15	QPSK	1	0	23.35	22.82	22.27
		1	37	23.50	22.85	22.35
		1	74	23.24	22.86	22.14
		36	0	22.27	21.86	21.17
		36	19	22.33	21.76	21.10
		36	39	22.20	21.62	21.13
		75	0	22.33	21.74	21.16
	16QAM	1	0	22.54	22.07	21.40
		1	37	22.70	22.00	21.43
		1	74	22.45	21.93	21.30
		36	0	21.36	20.93	20.35
		36	19	21.15	20.80	20.32
		36	39	21.17	20.73	20.05
		75	0	21.42	20.93	20.25
	64QAM	1	0	21.34	20.97	20.31
		1	37	21.54	21.04	20.49
		1	74	21.40	20.86	20.40
		36	0	20.33	20.01	19.39
		36	19	20.33	19.81	19.44
		36	39	20.16	19.88	19.21
		75	0	20.37	20.09	19.37



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Band/BW	Modulation	RB Size	RB Offset	Low CH (43690)	Mid CH (44090)	High CH (44490)
				Frequency (3610)MHz	Frequency (3650)MHz	Frequency (3690)MHz
43/ 20	QPSK	1	0	23.46	22.90	22.43
		1	50	23.56	23.02	22.46
		1	99	23.39	22.86	22.31
		50	0	22.28	21.86	21.27
		50	25	22.34	21.89	21.28
		50	50	22.22	21.70	21.13
		100	0	22.42	21.94	21.36
	16QAM	1	0	22.55	22.08	21.43
		1	50	22.71	22.19	21.60
		1	99	22.52	21.99	21.47
		50	0	21.46	20.96	20.37
		50	25	21.35	20.94	20.47
		50	50	21.23	20.89	20.23
		100	0	21.46	21.04	20.38
	64QAM	1	0	21.55	21.01	20.46
		1	50	21.61	21.21	20.57
		1	99	21.55	20.94	20.45
		50	0	20.43	20.03	19.39
		50	25	20.48	19.95	19.43
		50	50	20.32	19.90	19.25
		100	0	20.52	20.09	19.57



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LTE band 48

Band/BW	Modulation	RB Size	RB Offset	Low CH (55265)	Mid CH (55990)	High CH (56715)
				Frequency (3552.5)MHz	Frequency (3625.0)MHz	Frequency (3697.5)MHz
48/ 5	QPSK	1	0	22.83	23.40	22.35
		1	12	23.21	23.47	22.57
		1	24	23.12	23.21	22.33
		12	0	21.72	22.21	21.28
		12	6	21.88	22.11	21.35
		12	13	21.85	22.14	21.22
		25	0	21.97	22.25	21.38
	16QAM	1	0	21.98	22.67	21.58
		1	12	22.21	22.59	21.56
		1	24	22.25	22.42	21.30
		12	0	20.90	21.26	20.31
		12	6	20.95	21.36	20.40
		12	13	20.90	21.29	20.36
		25	0	21.01	21.42	20.32
	64QAM	1	0	20.94	21.37	20.68
		1	12	21.26	21.45	20.83
		1	24	21.12	21.50	20.13
		12	0	19.74	20.25	19.49
		12	6	19.92	20.47	19.42
		12	13	19.86	20.31	19.25
		25	0	19.90	20.45	19.35



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Band/BW	Modulation	RB Size	RB Offset	Low CH (55290)	Mid CH (55990)	High CH (56690)
				Frequency (3555)MHz	Frequency (3625.0)MHz	Frequency (3695)MHz
48/ 10	QPSK	1	0	22.92	23.44	22.36
		1	24	23.09	23.56	22.45
		1	49	22.97	23.29	22.31
		25	0	21.63	22.13	21.37
		25	12	21.84	22.29	21.18
		25	25	21.77	22.15	21.26
		50	0	21.94	22.20	21.27
	16QAM	1	0	21.89	22.72	21.51
		1	24	22.11	22.45	21.50
		1	49	22.32	22.42	21.33
		25	0	20.87	21.27	20.20
		25	12	21.07	21.35	20.39
		25	25	20.83	21.20	20.39
		50	0	20.90	21.47	20.47
	64QAM	1	0	20.88	21.49	20.57
		1	24	21.32	21.49	20.62
		1	49	21.12	21.30	20.19
		25	0	19.83	20.24	19.35
		25	12	19.96	20.27	19.29
		25	25	19.88	20.35	19.26
		50	0	19.82	20.54	19.46



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Band/BW	Modulation	RB Size	RB Offset	Low CH (55315)	Mid CH (55990)	High CH (56665)
				Frequency (3557.5)MHz	Frequency (3625.0)MHz	Frequency (3692.5)MHz
48/ 15	QPSK	1	0	22.70	23.42	22.47
		1	37	23.01	23.49	22.45
		1	74	22.96	23.30	22.21
		36	0	21.75	22.23	21.38
		36	19	21.84	22.30	21.28
		36	39	21.93	22.02	21.15
		75	0	21.92	22.36	21.28
	16QAM	1	0	21.91	22.61	21.49
		1	37	22.27	22.45	21.52
		1	74	22.32	22.57	21.26
		36	0	20.83	21.17	20.39
		36	19	21.09	21.41	20.39
		36	39	20.93	21.28	20.47
		75	0	21.01	21.35	20.39
	64QAM	1	0	20.86	21.38	20.61
		1	37	21.32	21.45	20.73
		1	74	21.10	21.47	20.34
		36	0	19.80	20.26	19.35
		36	19	19.86	20.39	19.31
		36	39	19.87	20.29	19.26
		75	0	19.82	20.46	19.35



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Band/BW	Modulation	RB Size	RB Offset	Low CH (55340)	Mid CH (55990)	High CH (56640)
				Frequency (3560)MHz	Frequency (3625.0)MHz	Frequency (3690)MHz
48/ 20	QPSK	1	0	22.91	23.55	22.55
		1	50	23.20	23.58	22.62
		1	99	23.13	23.42	22.34
		50	0	21.75	22.31	21.37
		50	25	21.97	22.32	21.39
		50	50	21.96	22.23	21.28
		100	0	22.00	22.39	21.42
	16QAM	1	0	21.99	22.76	21.58
		1	50	22.29	22.63	21.67
		1	99	22.31	22.59	21.45
		50	0	20.89	21.31	20.39
		50	25	21.16	21.45	20.52
		50	50	20.98	21.32	20.48
		100	0	21.00	21.46	20.52
	64QAM	1	0	20.94	21.55	20.73
		1	50	21.33	21.65	20.82
		1	99	21.20	21.49	20.34
		50	0	19.86	20.37	19.54
		50	25	19.99	20.47	19.46
		50	50	19.95	20.40	19.39
		100	0	20.00	20.58	19.56



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EIRP

LTE Band 42

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43115	3552.5	22.81	-0.63	22.18	165.20	23
43340	3575	22.84	-0.63	22.21	166.34	23
43565	3597.5	23.19	-0.63	22.56	180.30	23

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43115	3552.5	21.91	-0.63	21.28	134.28	23
43340	3575	22.07	-0.63	21.44	139.32	23
43565	3597.5	22.19	-0.63	21.56	143.22	23

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43115	3552.5	20.81	-0.63	20.18	104.23	23
43340	3575	21.05	-0.63	20.42	110.15	23
43565	3597.5	21.33	-0.63	20.70	117.49	23



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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43140	3555	22.75	-0.63	22.12	162.93	23
43340	3575	22.98	-0.63	22.35	171.79	23
43540	3595	23.18	-0.63	22.55	179.89	23

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43140	3555	21.81	-0.63	21.18	131.22	23
43340	3575	21.98	-0.63	21.35	136.46	23
43540	3595	22.33	-0.63	21.70	147.91	23

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-LC} (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43140	3555	20.83	-0.63	20.20	104.71	23
43340	3575	21.02	-0.63	20.39	109.40	23
43540	3595	21.48	-0.63	20.85	121.62	23



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CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43165	3557.5	22.73	-0.63	22.10	162.18	23
43340	3575	22.97	-0.63	22.34	171.40	23
43515	3592.5	23.22	-0.63	22.59	181.55	23

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43165	3557.5	21.93	-0.63	21.30	134.90	23
43340	3575	21.91	-0.63	21.28	134.28	23
43515	3592.5	22.34	-0.63	21.71	148.25	23

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43165	3557.5	20.89	-0.63	20.26	106.17	23
43340	3575	20.99	-0.63	20.36	108.64	23
43515	3592.5	21.38	-0.63	20.75	118.85	23



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CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43190	3560	22.87	-0.63	22.24	167.49	23
43340	3575	23.00	-0.63	22.37	172.58	23
43490	3590	23.30	-0.63	22.67	184.93	23

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43190	3560	21.99	-0.63	21.36	136.77	23
43340	3575	22.08	-0.63	21.45	139.64	23
43490	3590	22.33	-0.63	21.70	147.91	23

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43190	3560	20.88	-0.63	20.25	105.93	23
43340	3575	21.04	-0.63	20.41	109.90	23
43490	3590	21.50	-0.63	20.87	122.18	23



Test Report No.: PSU-QBJ2512030110RF06
LTE Band 43

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43615	3602.5	23.45	-0.77	22.68	185.35	23
44090	3650	22.92	-0.77	22.15	164.06	23
44565	3697.5	22.35	-0.77	21.58	143.88	23

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43615	3602.5	22.66	-0.77	21.89	154.53	23
44090	3650	22.19	-0.77	21.42	138.68	23
44565	3697.5	21.56	-0.77	20.79	119.95	23

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43615	3602.5	21.45	-0.77	20.68	116.95	23
44090	3650	21.18	-0.77	20.41	109.90	23
44565	3697.5	20.50	-0.77	19.73	93.97	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43640	3605	23.42	-0.77	22.65	184.08	23
44090	3650	22.91	-0.77	22.14	163.68	23
44540	3695	22.36	-0.77	21.59	144.21	23

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43640	3605	22.53	-0.77	21.76	149.97	23
44090	3650	22.09	-0.77	21.32	135.52	23
44540	3695	21.50	-0.77	20.73	118.30	23

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43640	3605	21.53	-0.77	20.76	119.12	23
44090	3650	21.16	-0.77	20.39	109.40	23
44540	3695	20.47	-0.77	19.70	93.33	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43665	3607.5	23.50	-0.77	22.73	187.50	23
44090	3650	22.86	-0.77	22.09	161.81	23
44515	3692.5	22.35	-0.77	21.58	143.88	23

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43665	3607.5	22.70	-0.77	21.93	155.96	23
44090	3650	22.07	-0.77	21.30	134.90	23
44515	3692.5	21.43	-0.77	20.66	116.41	23

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43665	3607.5	21.54	-0.77	20.77	119.40	23
44090	3650	21.04	-0.77	20.27	106.41	23
44515	3692.5	20.49	-0.77	19.72	93.76	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43690	3610	23.56	-0.77	22.79	190.11	23
44090	3650	23.02	-0.77	22.25	167.88	23
44490	3690	22.46	-0.77	21.69	147.57	23

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43690	3610	22.71	-0.77	21.94	156.31	23
44090	3650	22.19	-0.77	21.42	138.68	23
44490	3690	21.60	-0.77	20.83	121.06	23

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
43690	3610	21.61	-0.77	20.84	121.34	23
44090	3650	21.21	-0.77	20.44	110.66	23
44490	3690	20.57	-0.77	19.80	95.50	23



Test Report No.: PSU-QBJ2512030110RF06
LTE Band 48

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55265	3552.5	23.21	-0.63	22.58	181.13	23
55990	3625	23.47	-0.63	22.84	192.31	23
56715	3697.5	22.57	-0.63	21.94	156.31	23

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55265	3552.5	22.25	-0.63	21.62	145.21	23
55990	3625	22.67	-0.63	22.04	159.96	23
56715	3697.5	21.58	-0.63	20.95	124.45	23

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55265	3552.5	21.26	-0.63	20.63	115.61	23
55990	3625	21.50	-0.63	20.87	122.18	23
56715	3697.5	20.83	-0.63	20.20	104.71	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55290	3555	23.09	-0.63	22.46	176.20	23
55990	3625	23.56	-0.63	22.93	196.34	23
56690	3695	22.45	-0.63	21.82	152.05	23

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55290	3555	22.32	-0.63	21.69	147.57	23
55990	3625	22.72	-0.63	22.09	161.81	23
56690	3695	21.51	-0.63	20.88	122.46	23

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55290	3555	21.32	-0.63	20.69	117.22	23
55990	3625	21.49	-0.63	20.86	121.90	23
56690	3695	20.62	-0.63	19.99	99.77	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55315	3557.5	23.01	-0.63	22.38	172.98	23
55990	3625	23.49	-0.63	22.86	193.20	23
56665	3692.5	22.47	-0.63	21.84	152.76	23

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55315	3557.5	22.32	-0.63	21.69	147.57	23
55990	3625	22.61	-0.63	21.98	157.76	23
56665	3692.5	21.52	-0.63	20.89	122.74	23

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55315	3557.5	21.32	-0.63	20.69	117.22	23
55990	3625	21.47	-0.63	20.84	121.34	23
56665	3692.5	20.73	-0.63	20.10	102.33	23



Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55340	3560	23.20	-0.63	22.57	180.72	23
55990	3625	23.58	-0.63	22.95	197.24	23
56640	3690	22.62	-0.63	21.99	158.12	23

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55340	3560	22.31	-0.63	21.68	147.23	23
55990	3625	22.76	-0.63	22.13	163.31	23
56640	3690	21.67	-0.63	21.04	127.06	23

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
55340	3560	21.33	-0.63	20.70	117.49	23
55990	3625	21.65	-0.63	21.02	126.47	23
56640	3690	20.82	-0.63	20.19	104.47	23

Note: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).

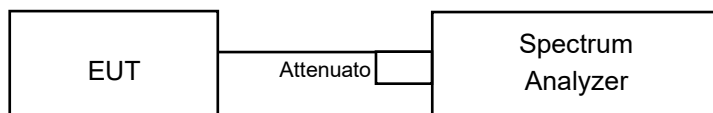


Test Report No.: PSU-QBJ2512030110RF06
3.2 CONDUCTED BAND EDGE

3.2.1 LIMITS OF CONDUCTED BAND EDGE MEASUREMENT

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.2.2 TEST SETUP



3.2.3 TEST INSTRUMENTS

Refer to section 1.2 to get information of above instrument.



Test Report No.: PSU-QBJ2512030110RF06

3.2.4 TEST PROCEDURE

For the Conducted Band Edge:

- 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) $\geq 1\%$ 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 $\geq 3 \times$ 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.

For Adjacent Channel Leakage Ratio (ACLR) measurement:

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.2.5 DEVIATION FROM TEST STANDARD

No deviation.



Test Report No.: PSU-QBJ2512030110RF06

3.2.6 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: PSU-QBJ2512030110RF06

3.3 FREQUENCY STABILITY MEASUREMENT

3.3.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

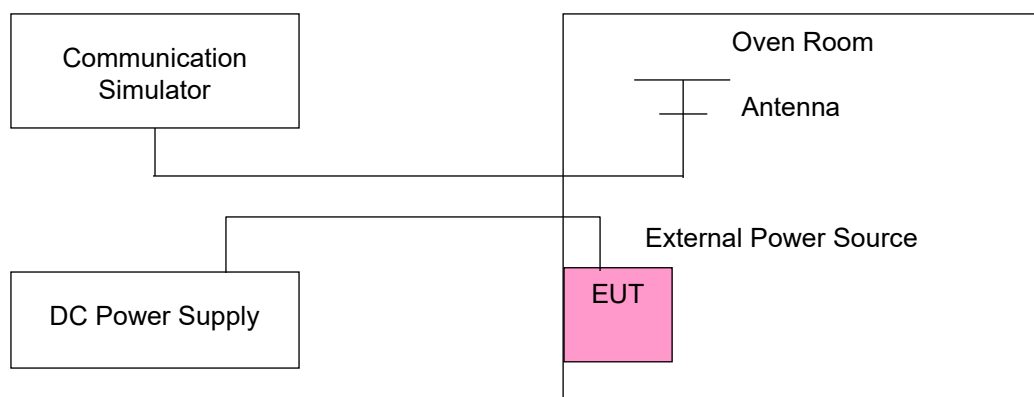
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band.

3.3.2 TEST PROCEDURE

- 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.
- 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.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ 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.

3.3.3 TEST SETUP





Test Report No.: PSU-QBJ2512030110RF06

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

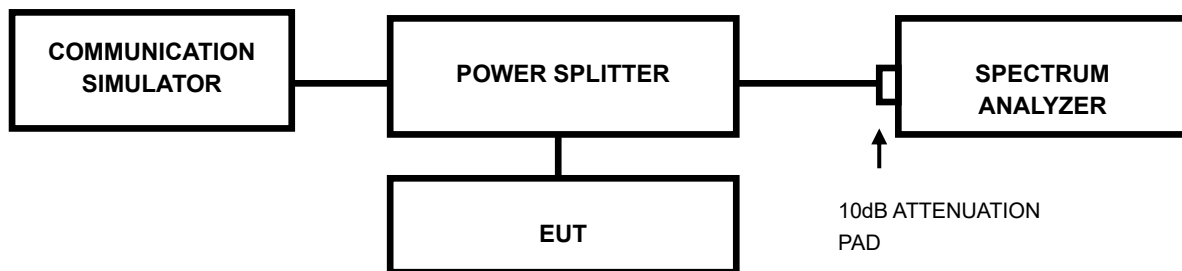
Note: VL = Low voltage(3.3V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.35V);
NT = Normal temperature (25°C)

3.4 OCCUPIED BANDWIDTH MEASUREMENT

3.4.1 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.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 1.2 to get information of above instrument.

3.4.4 TEST PROCEDURE

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

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.



Test Report No.: PSU-QBJ2512030110RF06
3.4.6 TEST RESULT

Please Refer to Appendix Of this test report.



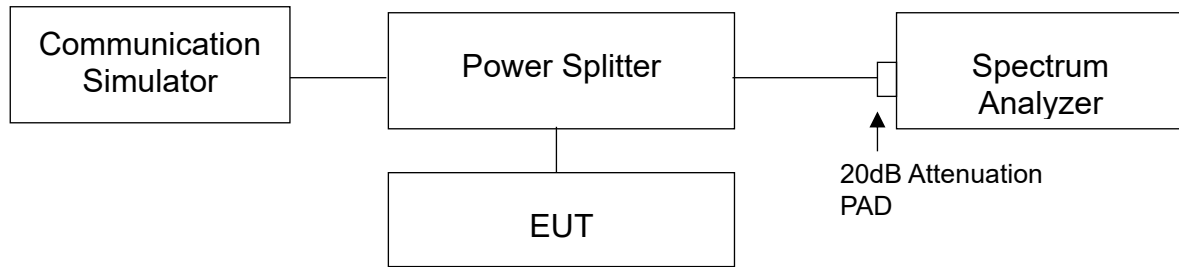
Test Report No.: PSU-QBJ2512030110RF06

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.5.2 TEST SETUP



3.5.3 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 40 GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.



Test Report No.: PSU-QBJ2512030110RF06
3.5.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: PSU-QBJ2512030110RF06

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.6.2 TEST PROCEDURES

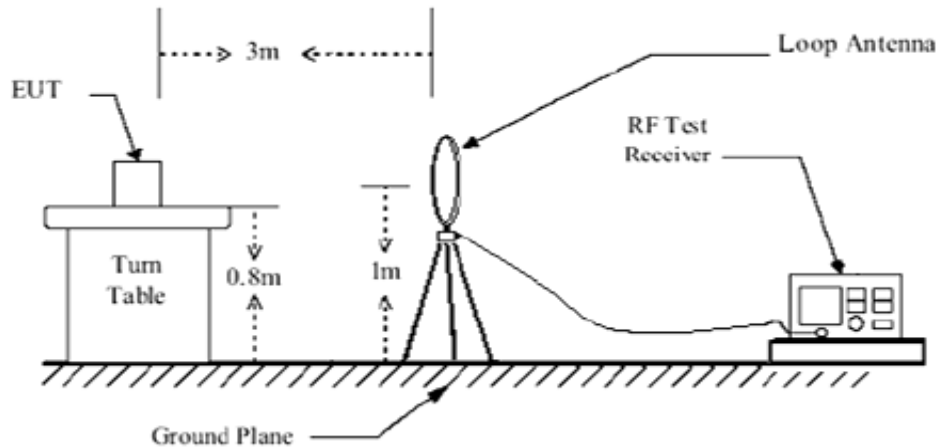
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and 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 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15dBi.$

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

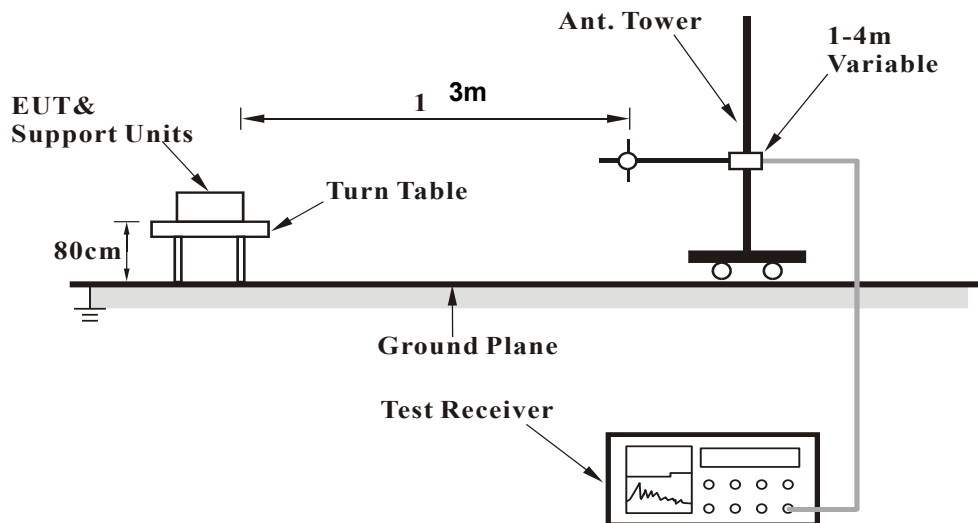
3.6.3 DEVIATION FROM TEST STANDARD

No deviation.

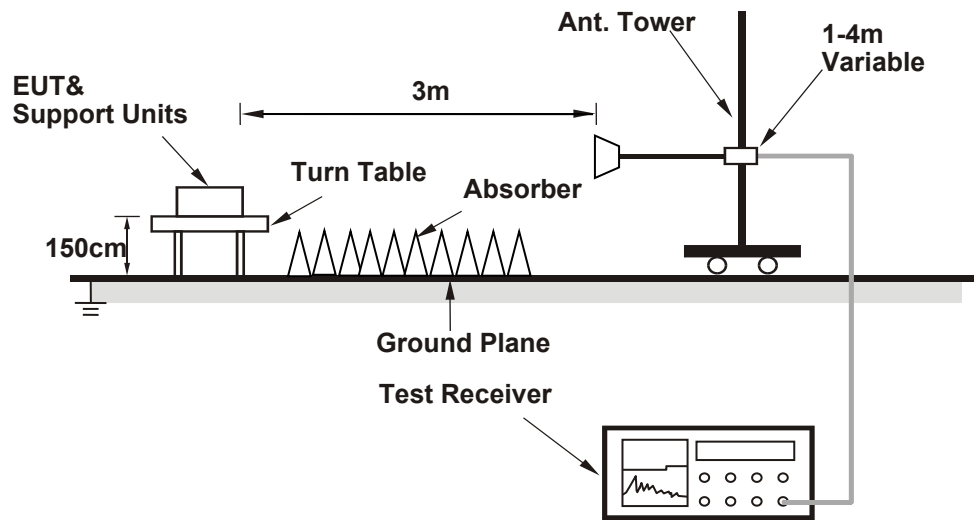
< Frequency Range below 30MHz >



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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



Test Report No.: PSU-QBJ2512030110RF06

3.6.5 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.

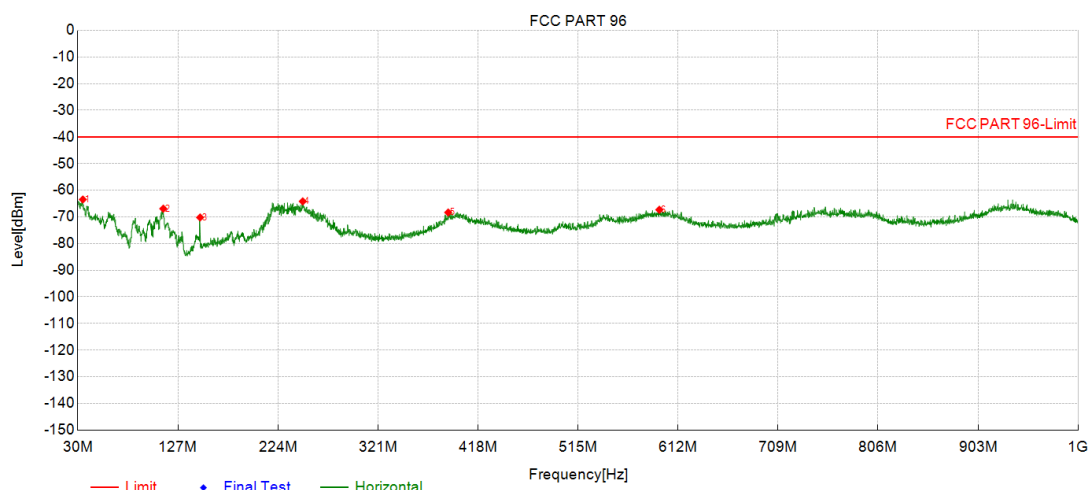
BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

LTE Band 48

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE		TX channel 55990			FREQUENCY RANGE		Below 1000MHz		
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		AC 120V/60HZ		
TESTED BY		Hanwen Xu							
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	34.851	-60.13	-63.46	-3.33	-40.00	23.46	Horizontal	PK	PASS
2	112.8546	-49.41	-66.92	-17.51	-40.00	26.92	Horizontal	PK	PASS
3	148.5577	-53.39	-70.21	-16.82	-40.00	30.21	Horizontal	PK	PASS
4	248.0996	-57.23	-64.19	-6.96	-40.00	24.19	Horizontal	PK	PASS
5	389.1658	-64.98	-68.34	-3.36	-40.00	28.34	Horizontal	PK	PASS
6	593.8768	-66.17	-67.32	-1.15	-40.00	27.32	Horizontal	PK	PASS

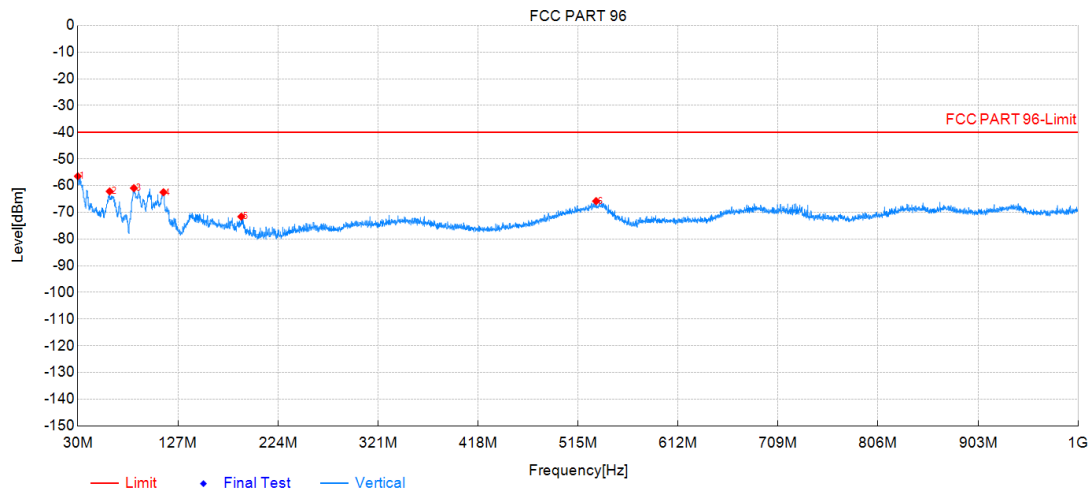




Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 55990	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
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	30	-48.53	-56.49	-7.96	-40.00	16.49	Vertical	PK	PASS
2	60.8522	-42.42	-62.15	-19.73	-40.00	22.15	Vertical	PK	PASS
3	84.3309	-46.01	-60.95	-14.94	-40.00	20.95	Vertical	PK	PASS
4	113.0486	-51.18	-62.48	-11.30	-40.00	22.48	Vertical	PK	PASS
5	188.5297	-59.25	-71.61	-12.36	-40.00	31.61	Vertical	PK	PASS
6	532.5605	-65.50	-65.81	-0.31	-40.00	25.81	Vertical	PK	PASS





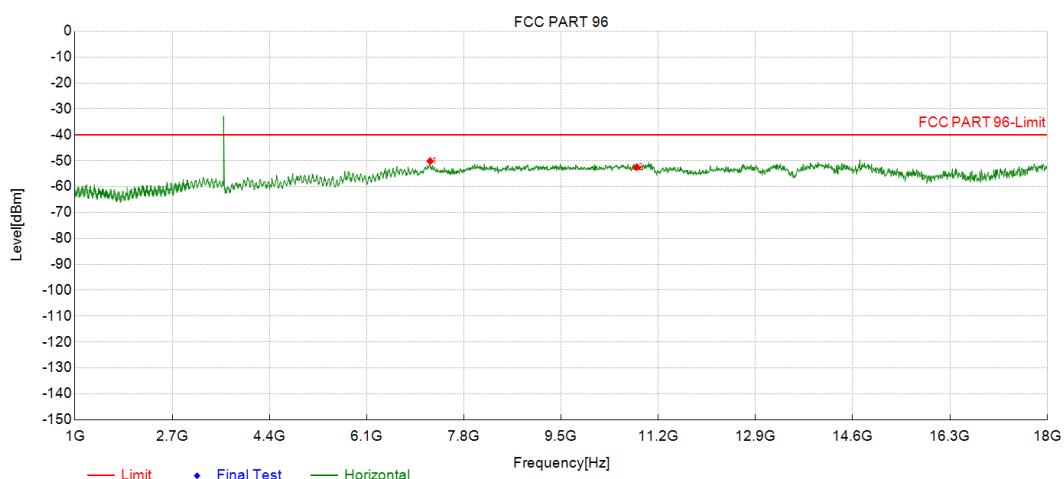
**Test Report No.: PSU-QBJ2512030110RF06
ABOVE 1GHz**

Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

LTE BAND 48

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE			TX channel 55265			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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7210.042	-59.72	-50.16	9.56	-40.00	10.16	Horizontal	PK	PASS
2	10821.5643	-67.06	-52.51	14.55	-40.00	12.51	Horizontal	PK	PASS





Test Report No.: PSU-QBJ2512030110RF06

MODE		TX channel 55265		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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7210.042	-54.73	-45.01	9.72	-40.00	5.01	Vertical	PK	PASS
2	10821.5643	-66.91	-52.05	14.86	-40.00	12.05	Vertical	PK	PASS

FCC PART 96

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical

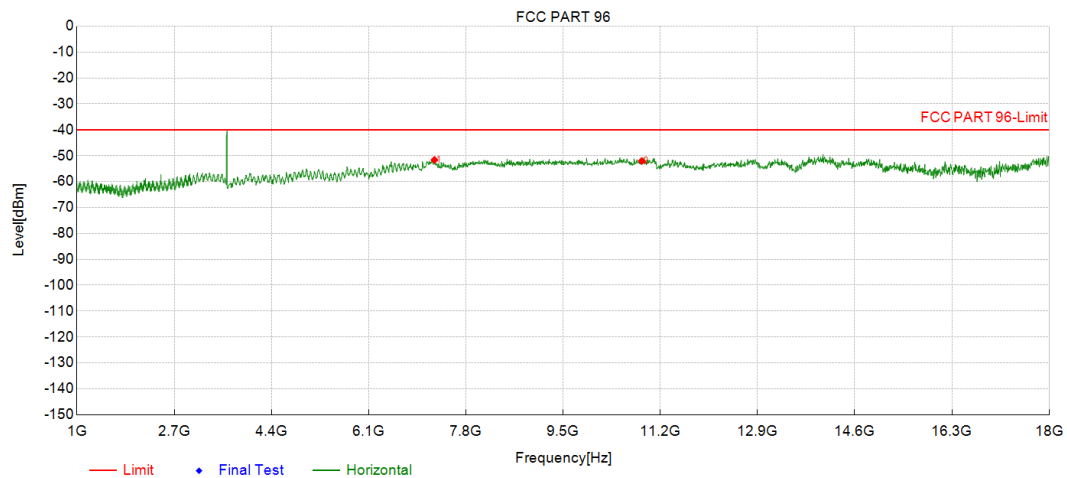


Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 55990	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7250.8502	-61.03	-51.63	9.40	-40.00	11.63	Horizontal	PK	PASS
2	10875.9752	-66.55	-52.01	14.54	-40.00	12.01	Horizontal	PK	PASS



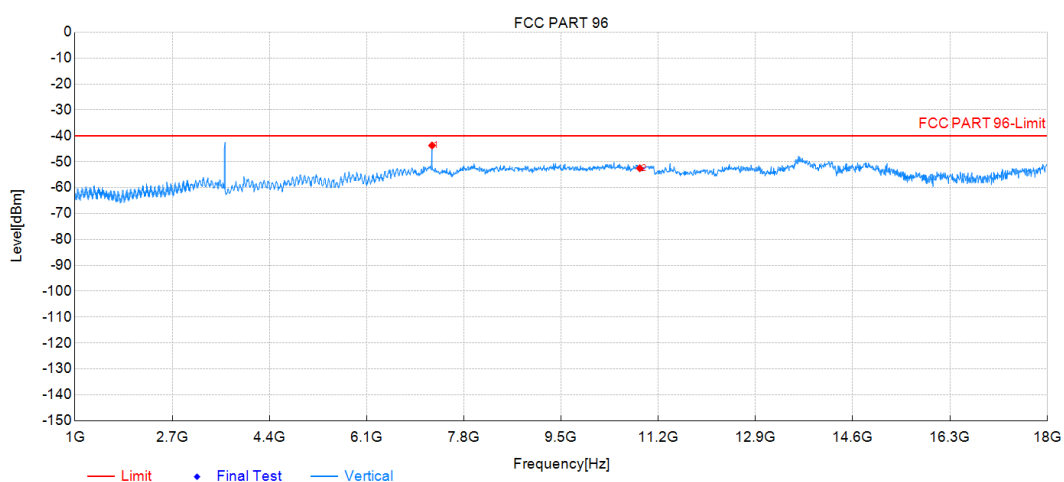


Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 55990	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7244.0488	-53.32	-43.72	9.60	-40.00	3.72	Vertical	PK	PASS
2	10875.9752	-67.34	-52.53	14.81	-40.00	12.53	Vertical	PK	PASS



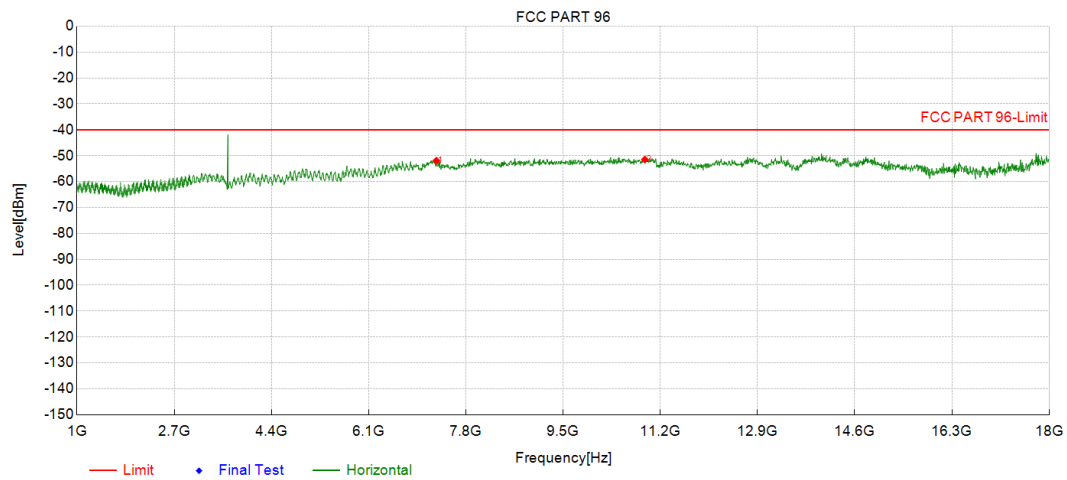


Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 56715	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7284.857	-61.20	-51.94	9.26	-40.00	11.94	Horizontal	PK	PASS
2	10930.3861	-66.01	-51.49	14.52	-40.00	11.49	Horizontal	PK	PASS



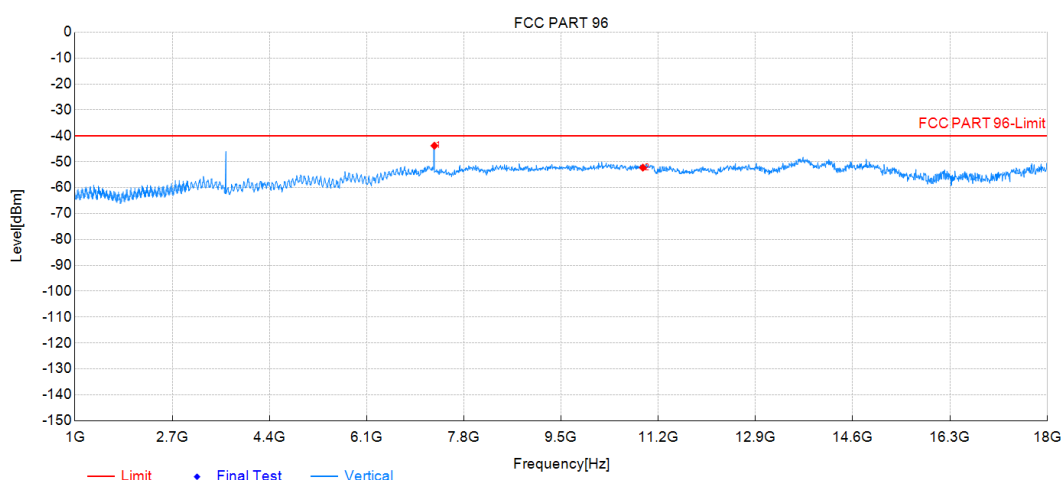


Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 56715	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7284.857	-53.26	-43.82	9.44	-40.00	3.82	Vertical	PK	PASS
2	10930.3861	-67.01	-52.28	14.73	-40.00	12.28	Vertical	PK	PASS





Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE		TX channel 55990		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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7244.0488	-59.35	-49.92	9.43	-40.00	9.92	Horizontal	PK	PASS
2	10875.9752	-66.45	-51.91	14.54	-40.00	11.91	Horizontal	PK	PASS

FCC PART 96

Level[dBm]

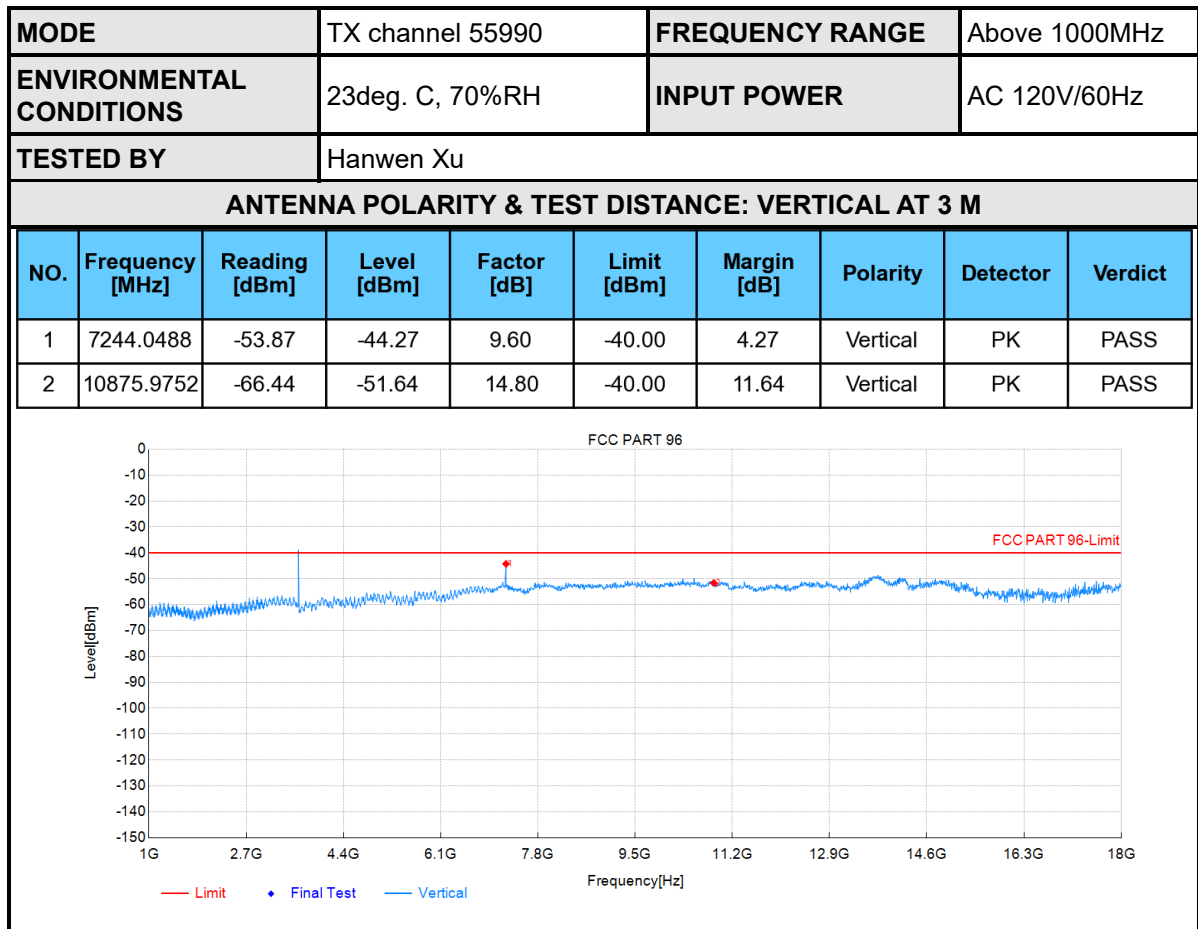
Frequency[Hz]

Limit Final Test Horizontal

FCC PART 96-Limit



Test Report No.: PSU-QBJ2512030110RF06





Test Report No.: PSU-QBJ2512030110RF06

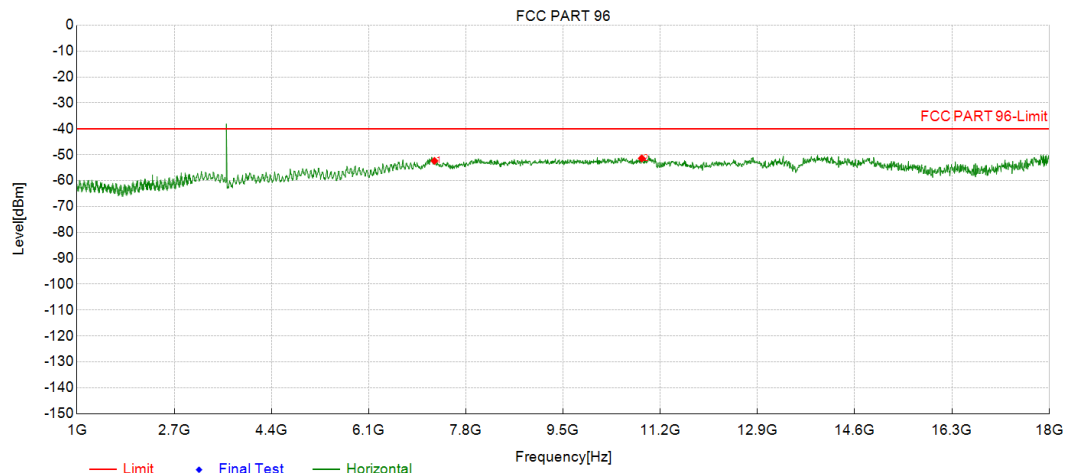
CHANNEL BANDWIDTH: 15MHz / QPSK

CH55990

MODE	TX channel 55990	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7250.8502	-61.79	-52.39	9.40	-40.00	12.39	Horizontal	PK	PASS
2	10875.9752	-65.95	-51.41	14.54	-40.00	11.41	Horizontal	PK	PASS



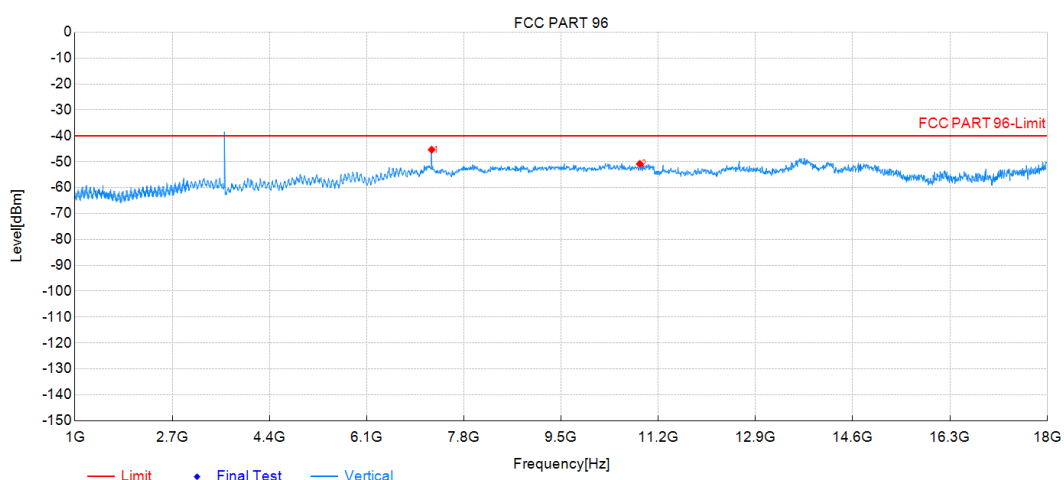


Test Report No.: PSU-QBJ2512030110RF06

MODE	TX channel 55990	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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7237.2474	-55.00	-45.37	9.63	-40.00	5.37	Vertical	PK	PASS
2	10875.9752	-65.65	-50.85	14.80	-40.00	10.85	Vertical	PK	PASS





Test Report No.: PSU-QBJ2512030110RF06

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE		TX channel 55990		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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7250.8502	-61.73	-52.33	9.40	-40.00	12.33	Horizontal	PK	PASS
2	10875.9752	-67.11	-52.57	14.54	-40.00	12.57	Horizontal	PK	PASS

FCC PART 96

The graph displays the spectral density of the signal across a frequency range from 1 GHz to 18 GHz. The y-axis represents the signal level in dBm, ranging from -150 to 0. A red horizontal line at -40 dBm indicates the FCC PART 96 limit. The green line shows the horizontal test results, which are consistently below the limit. Two blue dots mark the final test points at 7250.8502 MHz and 10875.9752 MHz, both of which are well below the limit.

Frequency [MHz]	Level [dBm]	Factor [dB]	Margin [dB]
7250.8502	-52.33	9.40	12.33
10875.9752	-52.57	14.54	12.57



Test Report No.: PSU-QBJ2512030110RF06

MODE		TX channel 55990		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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7230.4461	-54.50	-44.86	9.64	-40.00	4.86	Vertical	PK	PASS
2	10875.9752	-66.94	-52.14	14.80	-40.00	12.14	Vertical	PK	PASS

FCC PART 96

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical



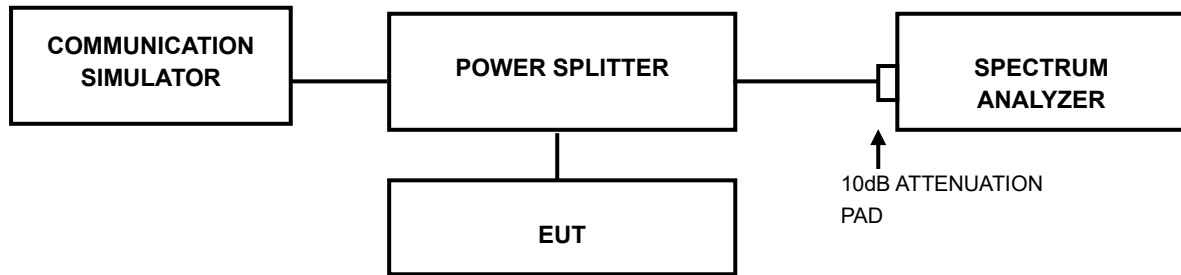
Test Report No.: PSU-QBJ2512030110RF06

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 $\geq$ 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%.



Test Report No.: PSU-QBJ2512030110RF06

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: PSU-QBJ2512030110RF06

4 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



Test Report No.: PSU-QBJ2512030110RF06

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.



Test Report No.: PSU-QBJ2512030110RF06

6 APPENDIX

LTE BAND 48

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	8.62	13	PASS
Band48	5MHz	QPSK	55265	25RB#0	9.73	13	PASS
Band48	5MHz	QPSK	55990	1RB#0	8.66	13	PASS
Band48	5MHz	QPSK	55990	25RB#0	9.57	13	PASS
Band48	5MHz	QPSK	56715	1RB#0	8.90	13	PASS
Band48	5MHz	QPSK	56715	25RB#0	9.53	13	PASS
Band48	5MHz	64QAM	55265	1RB#0	10.74	13	PASS
Band48	5MHz	64QAM	55265	25RB#0	10.30	13	PASS
Band48	5MHz	64QAM	55990	1RB#0	10.37	13	PASS
Band48	5MHz	64QAM	55990	25RB#0	10.56	13	PASS
Band48	5MHz	64QAM	56715	1RB#0	10.42	13	PASS
Band48	5MHz	64QAM	56715	25RB#0	10.47	13	PASS
Band48	5MHz	16QAM	55265	1RB#0	9.74	13	PASS
Band48	5MHz	16QAM	55265	25RB#0	9.75	13	PASS
Band48	5MHz	16QAM	55990	1RB#0	10.16	13	PASS
Band48	5MHz	16QAM	55990	25RB#0	10.37	13	PASS
Band48	5MHz	16QAM	56715	1RB#0	9.76	13	PASS
Band48	5MHz	16QAM	56715	25RB#0	9.83	13	PASS
Band48	10MHz	QPSK	55290	1RB#0	8.73	13	PASS
Band48	10MHz	QPSK	55290	50RB#0	9.46	13	PASS
Band48	10MHz	QPSK	55990	1RB#0	8.61	13	PASS
Band48	10MHz	QPSK	55990	50RB#0	9.63	13	PASS
Band48	10MHz	QPSK	56690	1RB#0	8.74	13	PASS
Band48	10MHz	QPSK	56690	50RB#0	9.36	13	PASS
Band48	10MHz	64QAM	55290	1RB#0	10.76	13	PASS
Band48	10MHz	64QAM	55290	50RB#0	10.01	13	PASS
Band48	10MHz	64QAM	55990	1RB#0	10.64	13	PASS
Band48	10MHz	64QAM	55990	50RB#0	10.26	13	PASS
Band48	10MHz	64QAM	56690	1RB#0	10.49	13	PASS
Band48	10MHz	64QAM	56690	50RB#0	10.97	13	PASS
Band48	10MHz	16QAM	55290	1RB#0	9.71	13	PASS
Band48	10MHz	16QAM	55290	50RB#0	9.75	13	PASS
Band48	10MHz	16QAM	55990	1RB#0	9.67	13	PASS
Band48	10MHz	16QAM	55990	50RB#0	10.39	13	PASS
Band48	10MHz	16QAM	56690	1RB#0	9.53	13	PASS
Band48	10MHz	16QAM	56690	50RB#0	10.36	13	PASS
Band48	15MHz	QPSK	55315	1RB#0	8.76	13	PASS
Band48	15MHz	QPSK	55315	75RB#0	9.65	13	PASS
Band48	15MHz	QPSK	55990	1RB#0	8.80	13	PASS
Band48	15MHz	QPSK	55990	75RB#0	10.97	13	PASS
Band48	15MHz	QPSK	56665	1RB#0	8.74	13	PASS
Band48	15MHz	QPSK	56665	75RB#0	10.48	13	PASS
Band48	15MHz	64QAM	55315	1RB#0	10.60	13	PASS
Band48	15MHz	64QAM	55315	75RB#0	10.59	13	PASS
Band48	15MHz	64QAM	55990	1RB#0	10.37	13	PASS
Band48	15MHz	64QAM	55990	75RB#0	11.52	13	PASS
Band48	15MHz	64QAM	56665	1RB#0	10.66	13	PASS
Band48	15MHz	64QAM	56665	75RB#0	11.39	13	PASS
Band48	15MHz	16QAM	55315	1RB#0	9.64	13	PASS
Band48	15MHz	16QAM	55315	75RB#0	10.35	13	PASS
Band48	15MHz	16QAM	55990	1RB#0	9.70	13	PASS
Band48	15MHz	16QAM	55990	75RB#0	11.43	13	PASS

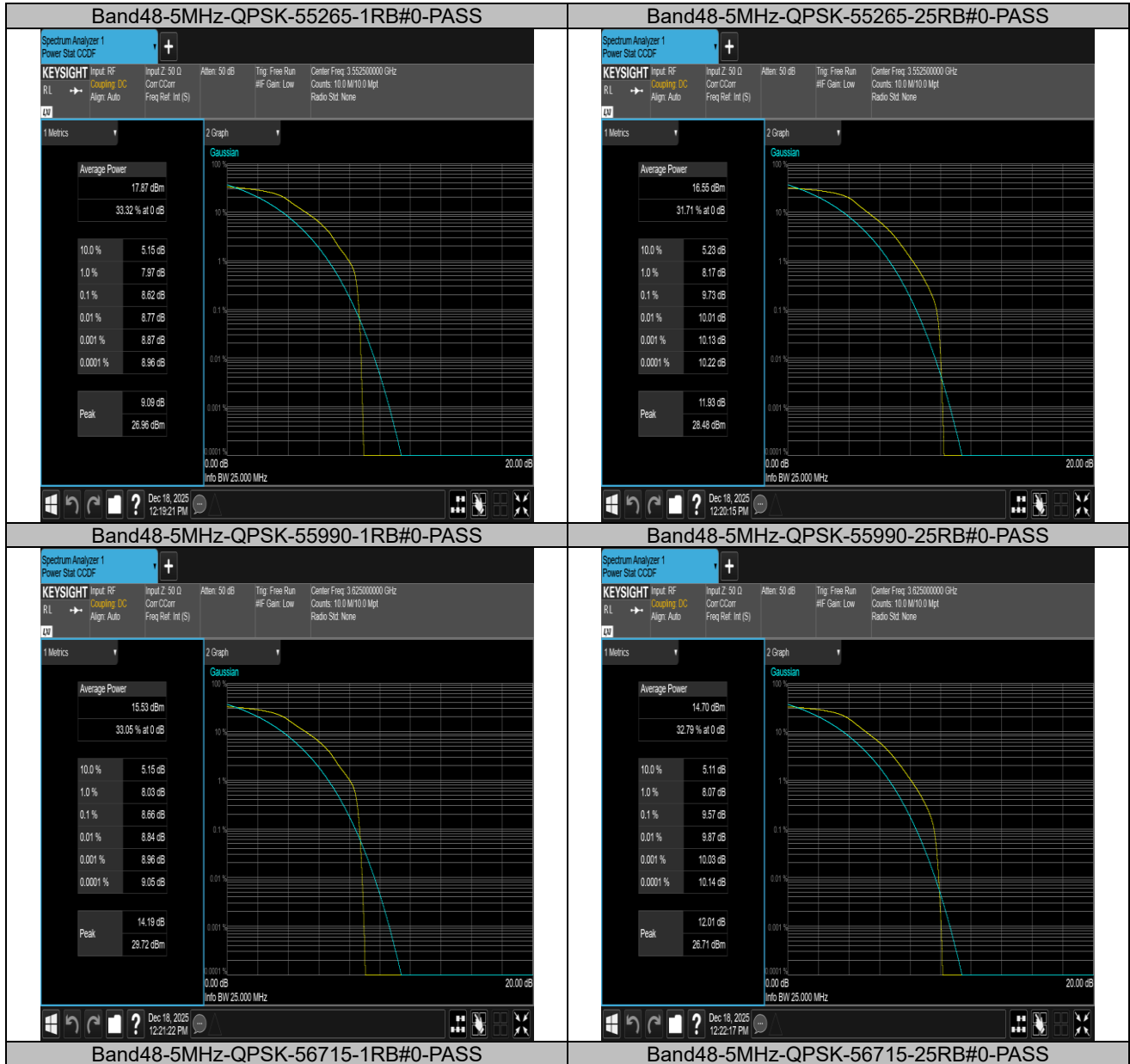


Test Report No.: PSU-QBJ2512030110RF06

Band48	15MHz	16QAM	56665	1RB#0	9.75	13	PASS
Band48	15MHz	16QAM	56665	75RB#0	11.23	13	PASS
Band48	20MHz	QPSK	55340	1RB#0	9.04	13	PASS
Band48	20MHz	QPSK	55340	100RB#0	9.73	13	PASS
Band48	20MHz	QPSK	55990	1RB#0	8.99	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	9.37	13	PASS
Band48	20MHz	QPSK	56640	1RB#0	9.41	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	9.37	13	PASS
Band48	20MHz	64QAM	55340	1RB#0	10.40	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	10.53	13	PASS
Band48	20MHz	64QAM	55990	1RB#0	10.19	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	10.25	13	PASS
Band48	20MHz	64QAM	56640	1RB#0	10.04	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	10.28	13	PASS
Band48	20MHz	16QAM	55340	1RB#0	9.64	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	10.17	13	PASS
Band48	20MHz	16QAM	55990	1RB#0	9.47	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	10.14	13	PASS
Band48	20MHz	16QAM	56640	1RB#0	9.83	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	10.30	13	PASS

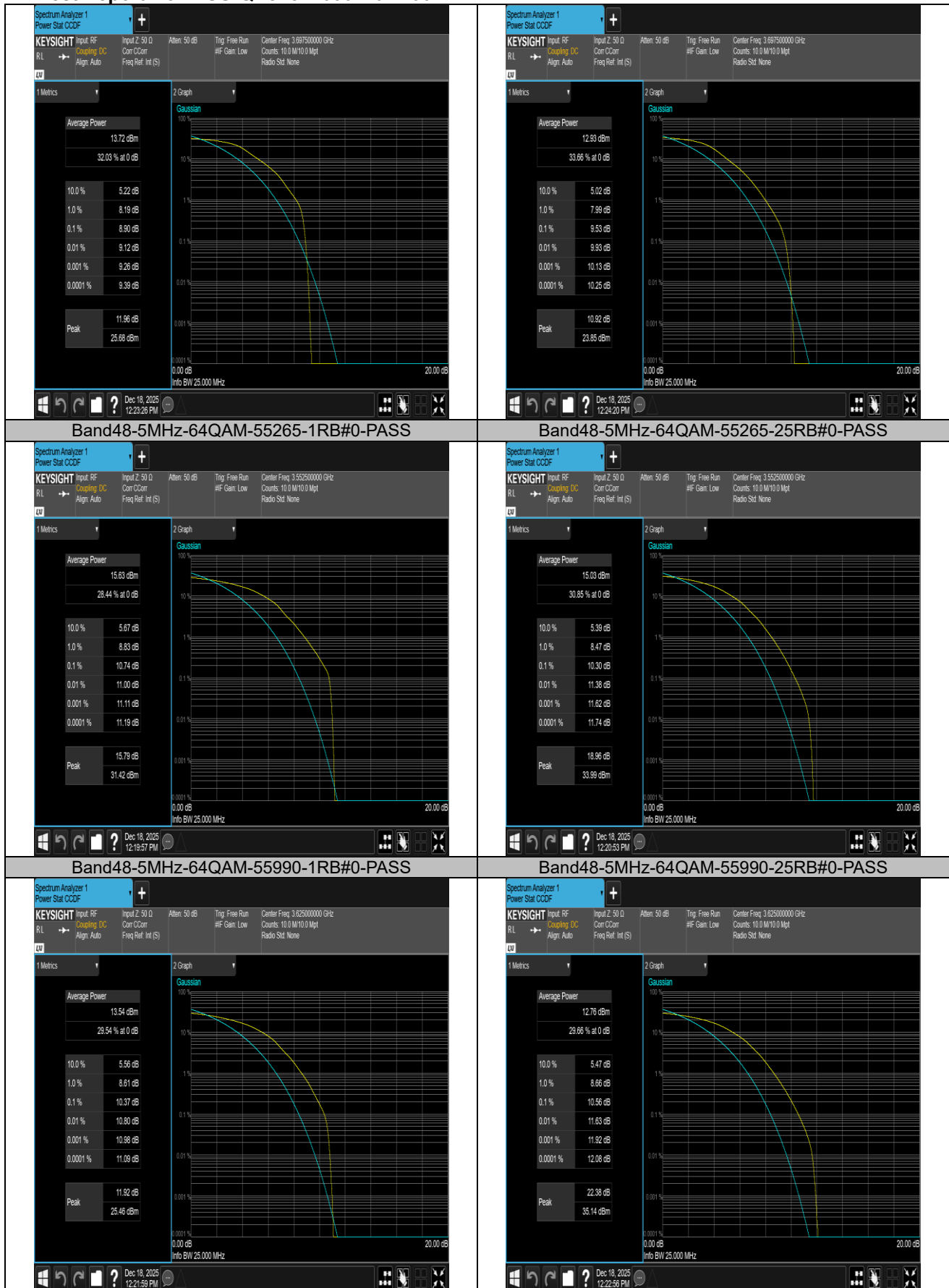


Test Report No.: PSU-QBJ2512030110RF06 Test Graphs





Test Report No.: PSU-QBJ2512030110RF06



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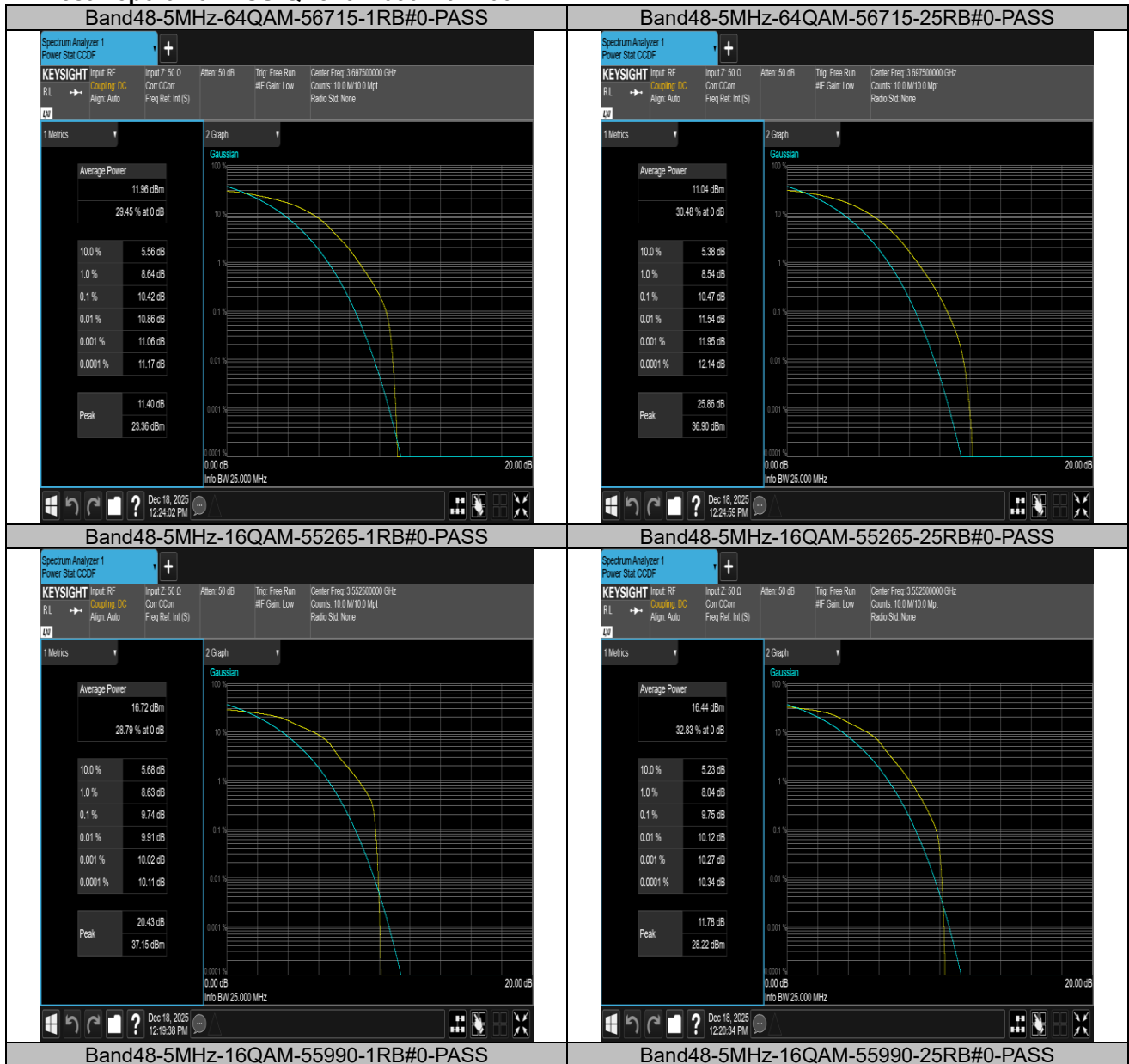
Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan
4th Rd, Chiwan Comm, Zhaoshang St, Nanshan
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Mobile: +86 15118052731

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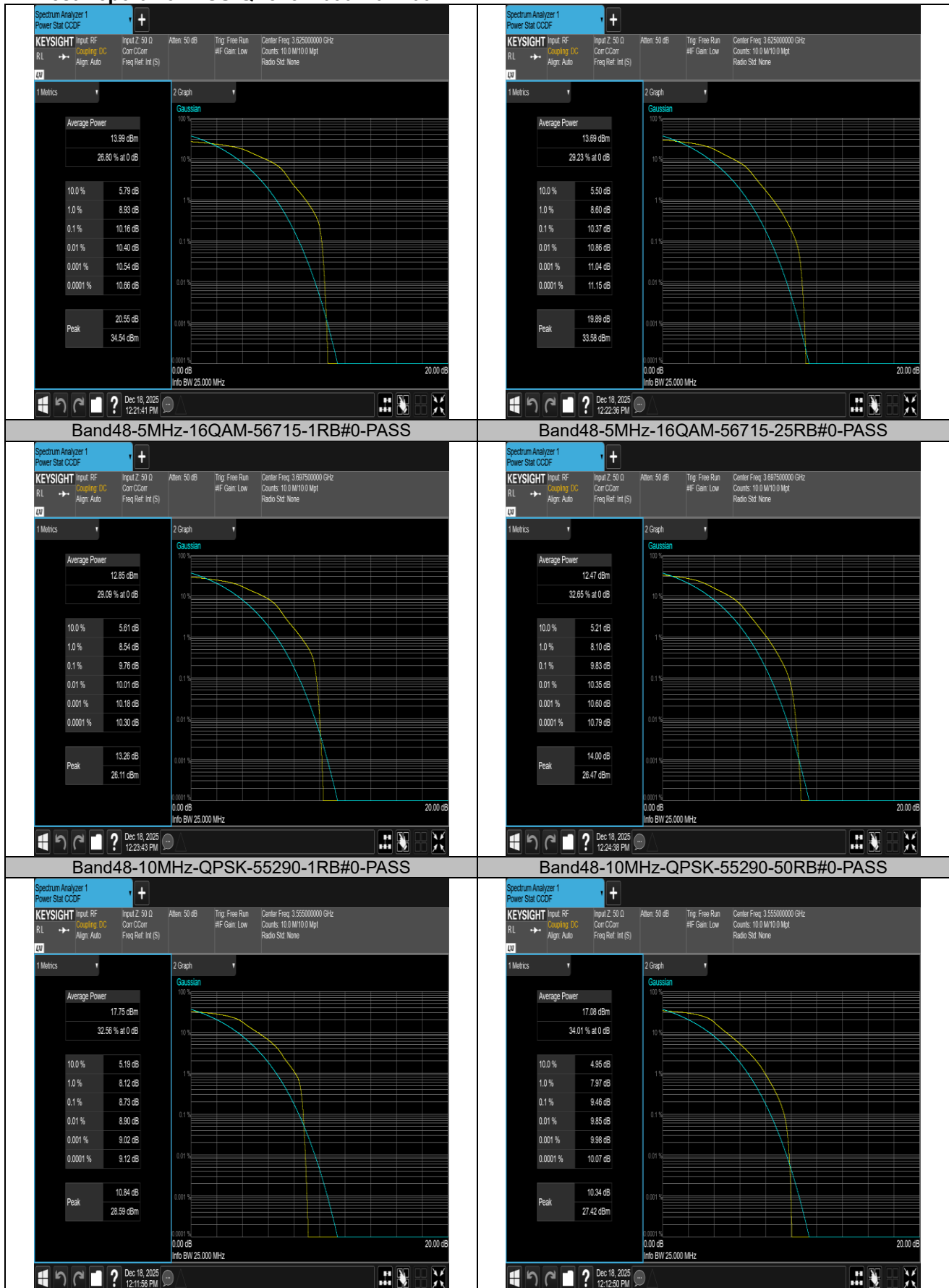


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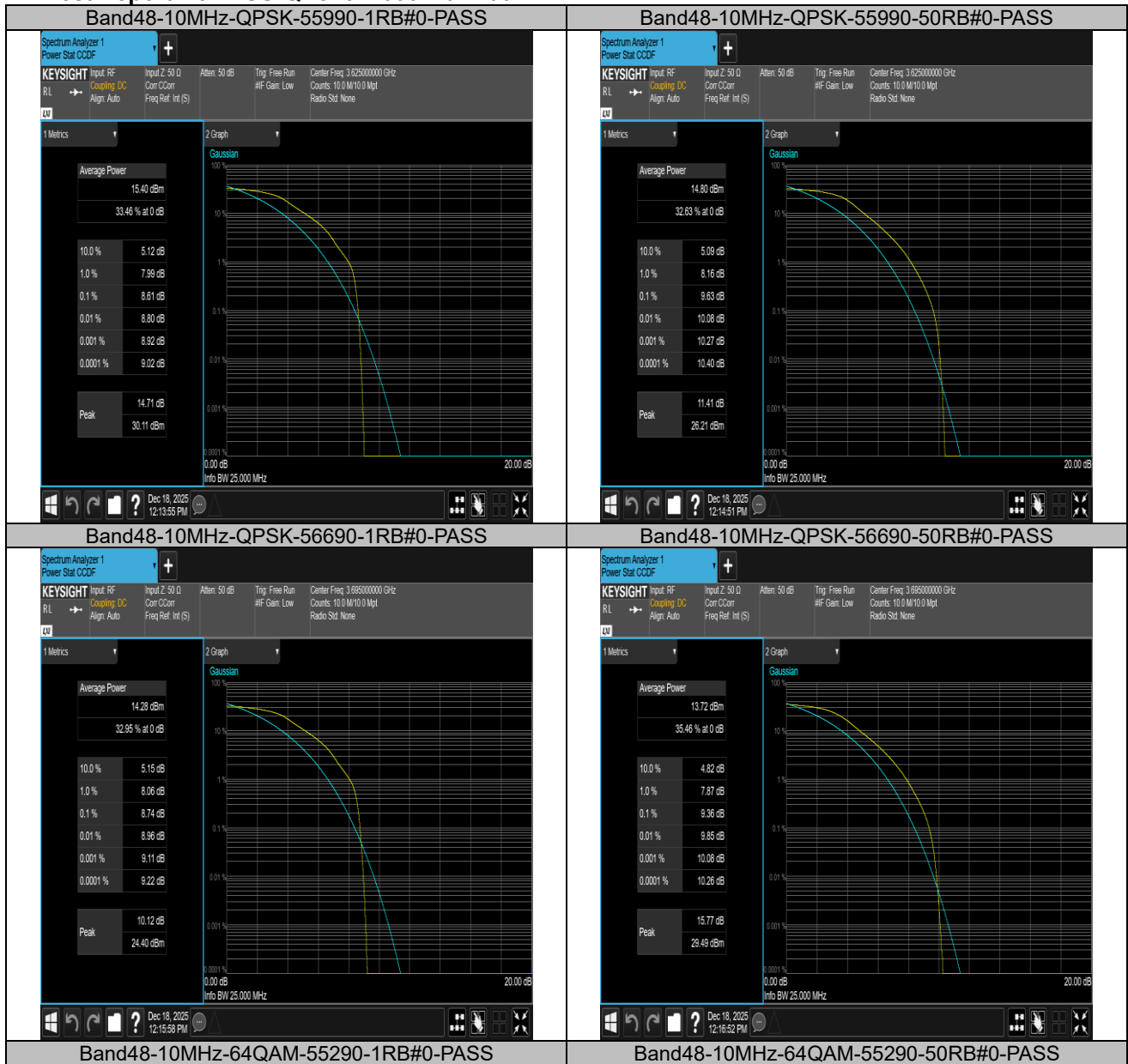
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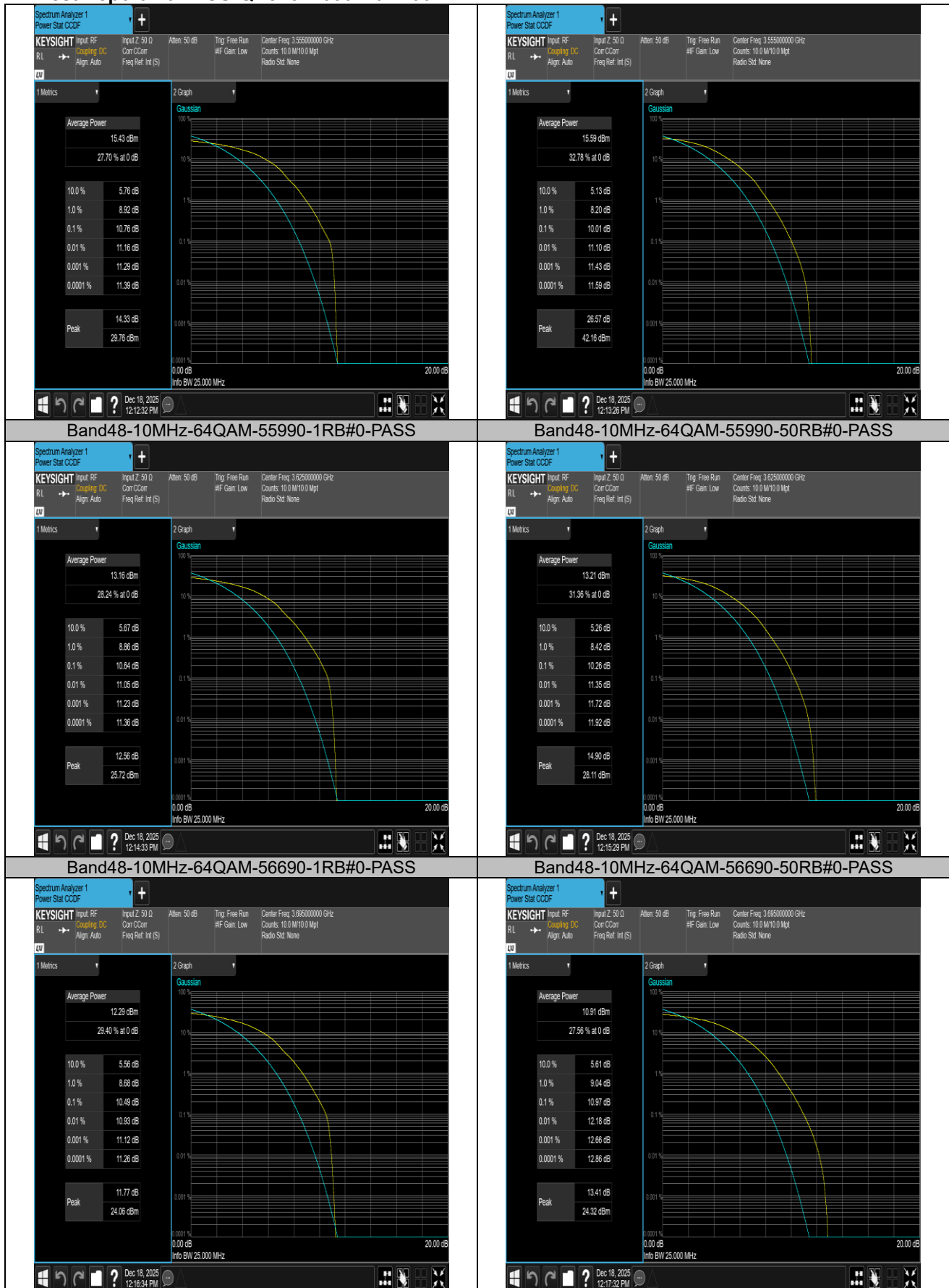


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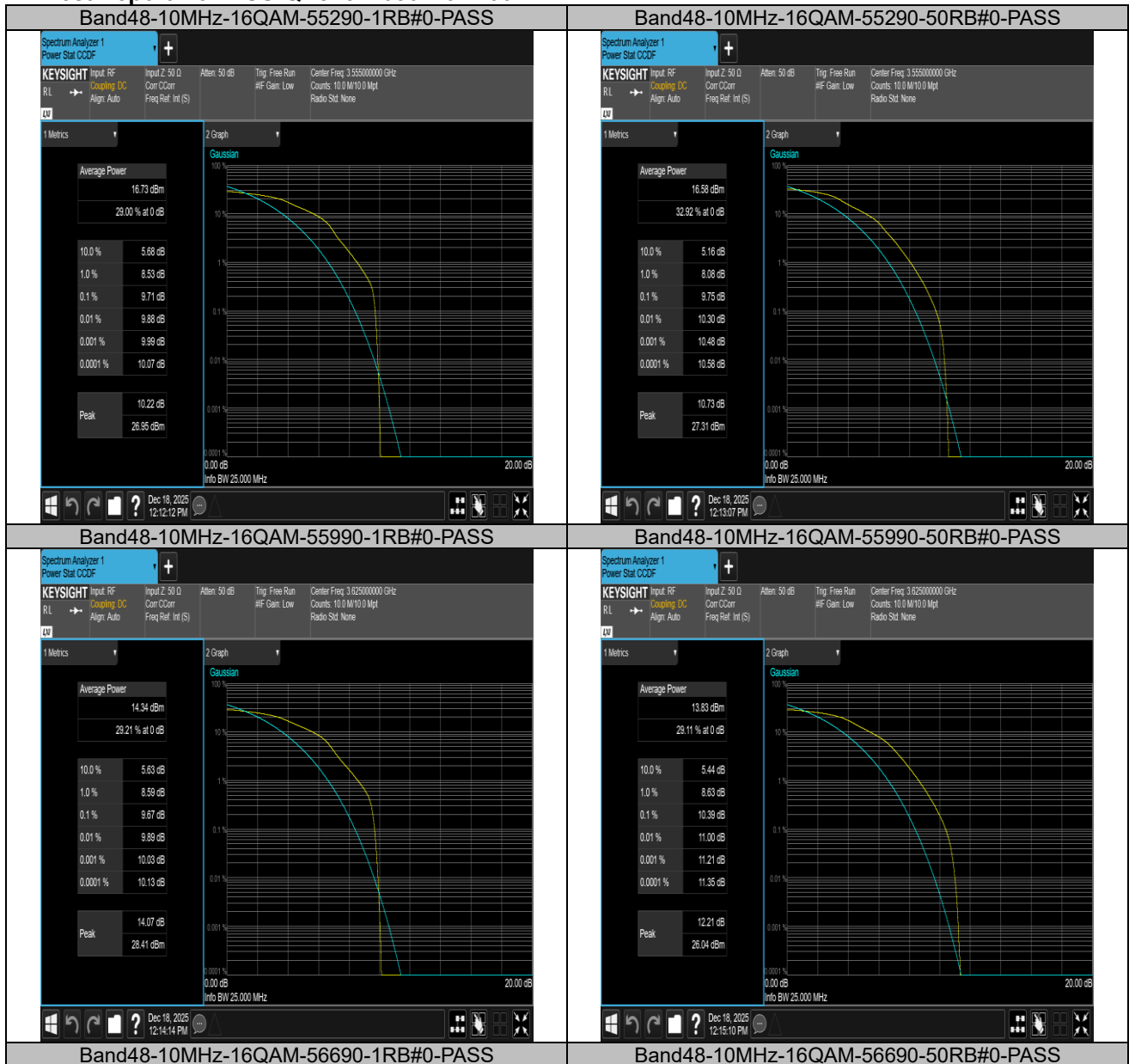
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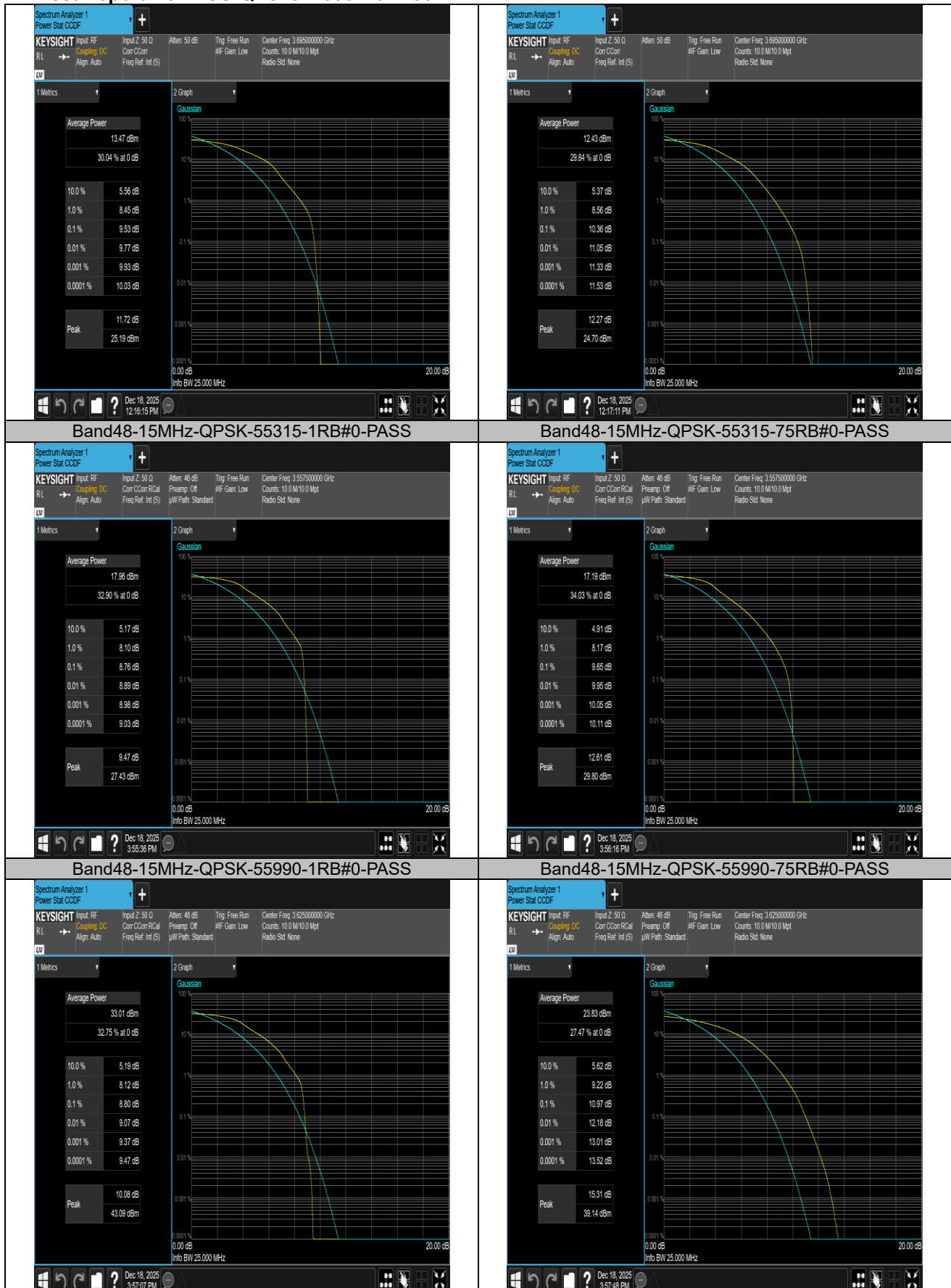


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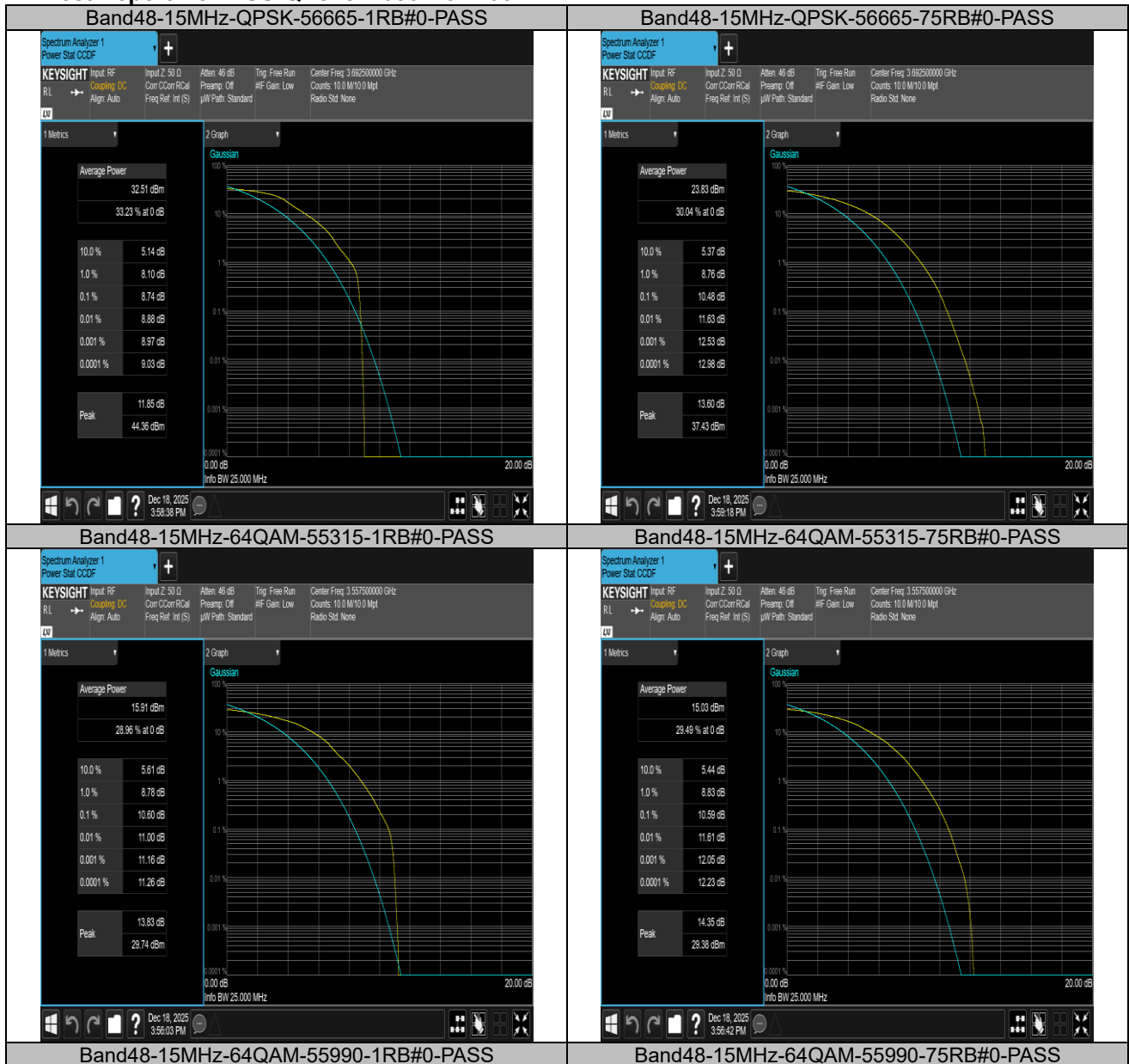
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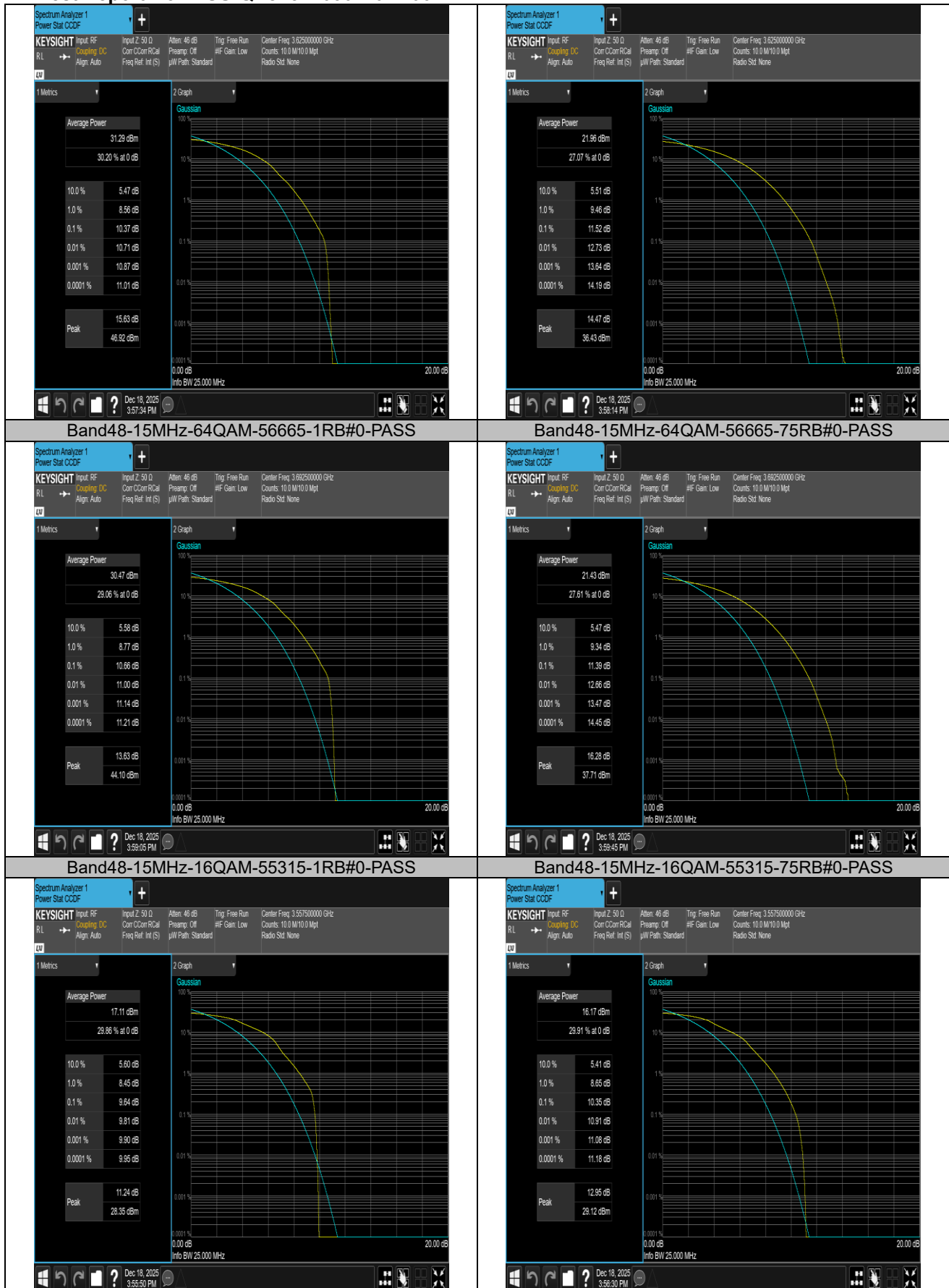


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