FCC TEST REPORT

(PART 27)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name	24094RAD4G
FCC ID:	2AFZZRAD4G
Date of tests:	Jul. 12, 2024 ~ Aug. 05, 2024

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Wang Date: Aug. 05, 2024	Luke Lu Date: Aug. 05, 2024

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-240618W001RF09	Original release	Aug. 05, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2		
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**
§2.1046	Conducted Output Power	Compliance
§27.50(h)(2)	Equivalent Isotopically Radiated Power (Band 7C) (Band 38C)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 7C) (Band 38C)	Compliance
§2.1051 §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 7C) (Band 38C)	Compliance
§2.1053 §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 7C) (Band 38C)	Compliance
NA	Peak to average ratio	Compliance

NOTE:

1. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, and 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.
2. For Band Edge and Emission Mask: 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.
3. For Out of Band Emissions: All combinations were tested. The highest power RB combination was selected as the worst case.

1.1 MEASREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
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	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.

3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	Redmi	
MODEL NAME	24094RAD4G	
NOMINAL VOLTAGE	5/5~11Vdc(adapter or host equipment) 3.91Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	**LTE**	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	**LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz**	2505.5MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	2507.5MHz ~ 2564.7MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	2507.8MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	2510MHz ~ 2564.5MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	2510MHz ~ 2562.2MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz	2510MHz ~ 2560MHz
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	2580.5MHz ~ 2610MHz

MAX. EIRP or EPR POWER	**LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz**	183.65mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	177.83mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	181.97mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	179.06mW
	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	181.13mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	182.81mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	178.24mW
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	199.07mW
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	198.15mW
EMISSION DESIGNATOR	**LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz**	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +10MHz	QPSK: 23M2G7D
		16QAM: 23M1W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +15MHz	QPSK: 28M5G7D
		16QAM: 28M4W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +20MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +10MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +15MHz	QPSK: 32M7G7D
		16QAM: 32M7W7D

EMISSION DESIGNATOR	**LTE Band CA_7C Channel Bandwidth: 20MHz +20MHz**	QPSK: 37M6G7D
		16QAM: 37M7W7D
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	QPSK: 28M4G7D
		16QAM: 28M4W7D
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	QPSK: 37M7G7D
		16QAM: 37M8W7D
ANTENNA TYPE	ANT 4(UP): PIFA Antenna with -1.4dBi gain for LTE CA 7C PIFA Antenna with -1dBi gain for LTE CA 38C ANT 1(DOWN): PIFA Antenna with -0.6dBi gain for LTE CA 7C PIFA Antenna with -0.6dBi gain for LTE CA 38C	
HW VERSION	13510O17P	
SW VERSION	Xiaomi HyperOS 1.0	
IMEI	861781070039865	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	0-40 ℃	
EXTREME VOLTAGE	3.7V - 4.3V	

NOTE:

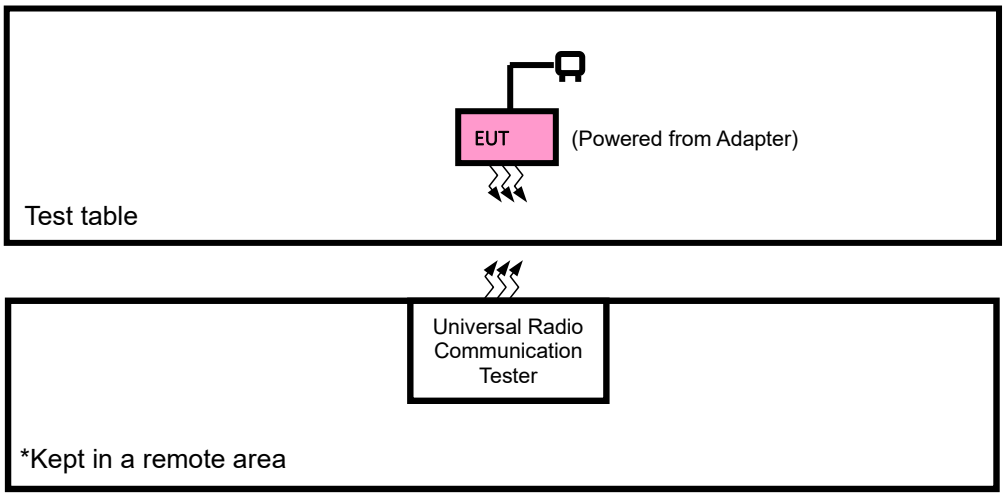
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Physically, the EUT provides two completed transmitters and two receivers.

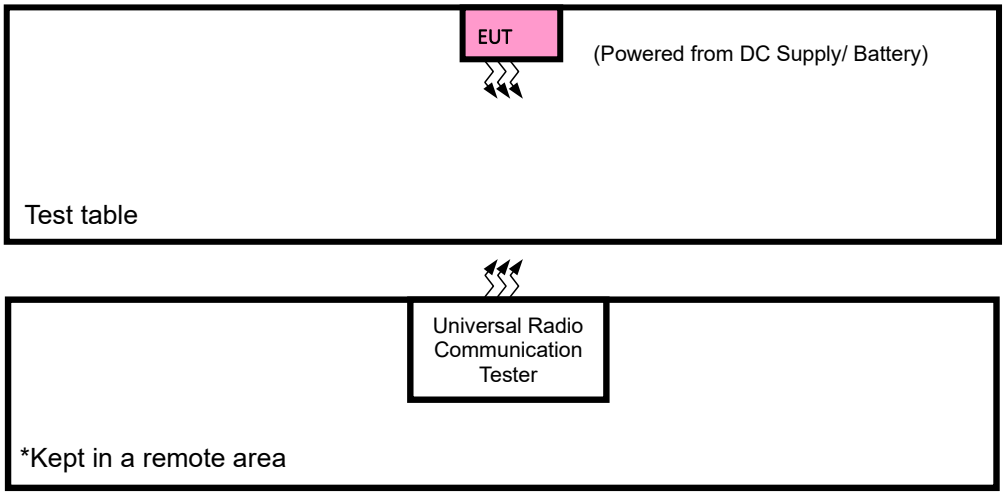
MODULATION MODE	TX FUNCTION
LTE	SISO-2TX/2RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.
5. For Band Edge and Emission Mask: 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.
6. For Out of Band Emissions: All combinations were tested. The highest power RB combination was selected as the worst case.

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	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

LTE BAND CA_7C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	20850 to 21152	21048 to 21350	Low	20MHz+20MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 99RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 99RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	20850 to 21152	21048 to 21350	Middle	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset

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

LTE BAND CA_38C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	37825 to 38025	37975 to 38175	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	37825 to 38025	37975 to 38175	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	37850 to 37952	38048 to 38150	Low	20MHz+20MHz	QPSK, 16QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz		1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20MHz	QPSK	1RB / 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	37850 to 37952	38048 to 38150	Middle	20MHz+20MHz	QPSK	1RB / 99RB Offset	1RB/ 0RB 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 5/5~11V By Adapter	Jace Hu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC 5/5~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

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

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for 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);

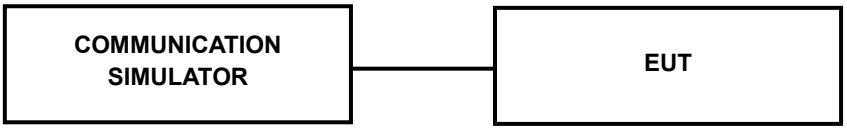
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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.

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

ANT4(UP):

CA_7C Ant4									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21048	2529.8	QPSK	1	99	1	0	23.35
				16QAM	1	99	1	0	22.41
				64QAM	1	99	1	0	20.83
21001	2525.1	21199	2544.9	QPSK	1	99	1	0	**23.46**
				16QAM	1	99	1	0	22.54
				64QAM	1	99	1	0	20.78
21152	2540.2	21350	2560	QPSK	1	99	1	0	23.29
				16QAM	1	99	1	0	22.16
				64QAM	1	99	1	0	20.71
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21021	2527.1	QPSK	1	99	1	0	23.31
				16QAM	1	99	1	0	22.38
				64QAM	1	99	1	0	20.77
21026	2527.6	21197	2544.7	QPSK	1	99	1	0	23.45
				16QAM	1	99	1	0	22.41
				64QAM	1	99	1	0	20.64
21201	2545.1	21372	2562.2	QPSK	1	99	1	0	23.19
				16QAM	1	99	1	0	22.06
				64QAM	1	99	1	0	20.57

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20828	2507.8	20999	2524.9	QPSK	1	74	1	0	23.21
				16QAM	1	74	1	0	22.37
				64QAM	1	74	1	0	20.75
21003	2525.3	21174	2542.4	QPSK	1	74	1	0	23.32
				16QAM	1	74	1	0	22.47
				64QAM	1	74	1	0	20.68
21179	2542.9	21350	2560	QPSK	1	74	1	0	23.15
				16QAM	1	74	1	0	22.05
				64QAM	1	74	1	0	20.55
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	20994	2524.4	QPSK	1	99	1	0	23.20
				16QAM	1	99	1	0	22.30
				64QAM	1	99	1	0	20.79
21051	2530.1	21195	2544.5	QPSK	1	99	1	0	23.42
				16QAM	1	99	1	0	22.51
				64QAM	1	99	1	0	20.77
21251	2550.1	21395	2564.5	QPSK	1	99	1	0	23.20
				16QAM	1	99	1	0	22.14
				64QAM	1	99	1	0	20.56

Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20805	2505.5	20949	2519.9	QPSK	1	49	1	0	23.24
				16QAM	1	49	1	0	22.34
				64QAM	1	49	1	0	20.69
21006	2525.6	21150	2540	QPSK	1	49	1	0	23.40
				16QAM	1	49	1	0	22.51
				64QAM	1	49	1	0	20.68
21206	21206	21350	21220.4	QPSK	1	49	1	0	23.15
				16QAM	1	49	1	0	22.12
				64QAM	1	49	1	0	20.59
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20975	2522.5	QPSK	1	74	1	0	23.28
				16QAM	1	74	1	0	22.33
				64QAM	1	74	1	0	20.73
21025	2527.5	21175	2542.5	QPSK	1	74	1	0	23.39
				16QAM	1	74	1	0	22.40
				64QAM	1	74	1	0	20.63
21225	2547.5	21375	2562.5	QPSK	1	74	1	0	23.19
				16QAM	1	74	1	0	22.11
				64QAM	1	74	1	0	20.59
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20945	2519.5	QPSK	1	74	1	0	23.31
				16QAM	1	74	1	0	22.29
				64QAM	1	74	1	0	20.77
21051	2530.1	21171	2542.1	QPSK	1	74	1	0	23.43
				16QAM	1	74	1	0	22.53
				64QAM	1	74	1	0	20.76
21277	2552.7	21397	2564.7	QPSK	1	74	1	0	23.18
				16QAM	1	74	1	0	22.11
				64QAM	1	74	1	0	20.58

CA_38C Ant4									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37850	2580	38048	2599.8	QPSK	1	99	1	0	23.13
				16QAM	1	99	1	0	22.05
				64QAM	1	99	1	0	21.07
37901	2585.1	38099	2604.9	QPSK	1	99	1	0	23.08
				16QAM	1	99	1	0	22.11
				64QAM	1	99	1	0	21.09
37952	2590.2	38150	2610	QPSK	1	99	1	0	**23.18**
				16QAM	1	99	1	0	22.09
				64QAM	1	99	1	0	21.10
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37825	2577.5	37975	2592.5	QPSK	1	74	1	0	23.09
				16QAM	1	74	1	0	22.12
				64QAM	1	74	1	0	21.13
37925	2587.5	38075	2602.5	QPSK	1	74	1	0	23.05
				16QAM	1	74	1	0	22.16
				64QAM	1	74	1	0	21.05
38025	2597.5	38175	2612.5	QPSK	1	74	1	0	23.14
				16QAM	1	74	1	0	22.06
				64QAM	1	74	1	0	21.07

ANT1(DOWN):

CA_7C Ant1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21048	2529.8	QPSK	1	99	1	0	23.19
				16QAM	1	99	1	0	22.62
				64QAM	1	99	1	0	21.14
21001	2525.1	21199	2544.9	QPSK	1	99	1	0	**23.24**
				16QAM	1	99	1	0	22.58
				64QAM	1	99	1	0	21.19
21152	2540.2	21350	2560	QPSK	1	99	1	0	23.15
				16QAM	1	99	1	0	22.54
				64QAM	1	99	1	0	21.07
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	21021	2527.1	QPSK	1	99	1	0	23.10
				16QAM	1	99	1	0	22.58
				64QAM	1	99	1	0	21.12
21026	2527.6	21197	2544.7	QPSK	1	99	1	0	23.05
				16QAM	1	99	1	0	22.49
				64QAM	1	99	1	0	21.13
21201	2545.1	21372	2562.2	QPSK	1	99	1	0	23.07
				16QAM	1	99	1	0	22.45
				64QAM	1	99	1	0	21.09

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20828	2507.8	20999	2524.9	QPSK	1	74	1	0	23.20
				16QAM	1	74	1	0	22.47
				64QAM	1	74	1	0	21.13
21003	2525.3	21174	2542.4	QPSK	1	74	1	0	23.17
				16QAM	1	74	1	0	22.41
				64QAM	1	74	1	0	21.12
21179	2542.9	21350	2560	QPSK	1	74	1	0	23.12
				16QAM	1	74	1	0	22.45
				64QAM	1	74	1	0	21.06
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20850	2510	20994	2524.4	QPSK	1	99	1	0	23.12
				16QAM	1	99	1	0	22.34
				64QAM	1	99	1	0	21.08
21051	2530.1	21195	2544.5	QPSK	1	99	1	0	23.08
				16QAM	1	99	1	0	22.47
				64QAM	1	99	1	0	21.10
21251	2550.1	21395	2564.5	QPSK	1	99	1	0	23.13
				16QAM	1	99	1	0	22.29
				64QAM	1	99	1	0	21.14

Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20805	2505.5	20949	2519.9	QPSK	1	49	1	0	23.09
				16QAM	1	49	1	0	22.55
				64QAM	1	49	1	0	21.04
21006	2525.6	21150	2540	QPSK	1	49	1	0	23.18
				16QAM	1	49	1	0	22.46
				64QAM	1	49	1	0	21.12
21206	21206	21350	21220.4	QPSK	1	49	1	0	23.15
				16QAM	1	49	1	0	22.50
				64QAM	1	49	1	0	21.05
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20975	2522.5	QPSK	1	74	1	0	23.12
				16QAM	1	74	1	0	22.61
				64QAM	1	74	1	0	21.13
21025	2527.5	21175	2542.5	QPSK	1	74	1	0	23.05
				16QAM	1	74	1	0	22.55
				64QAM	1	74	1	0	21.18
21225	2547.5	21375	2562.5	QPSK	1	74	1	0	23.22
				16QAM	1	74	1	0	22.49
				64QAM	1	74	1	0	21.17
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
20825	2507.5	20945	2519.5	QPSK	1	74	1	0	23.09
				16QAM	1	74	1	0	22.51
				64QAM	1	74	1	0	21.07
21051	2530.1	21171	2542.1	QPSK	1	74	1	0	23.05
				16QAM	1	74	1	0	22.44
				64QAM	1	74	1	0	21.17
21277	2552.7	21397	2564.7	QPSK	1	74	1	0	23.11
				16QAM	1	74	1	0	22.42
				64QAM	1	74	1	0	21.05

CA_38C Ant1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37850	2580	38048	2599.8	QPSK	1	99	1	0	23.54
				16QAM	1	99	1	0	22.57
				64QAM	1	99	1	0	21.59
37901	2585.1	38099	2604.9	QPSK	1	99	1	0	**23.59**
				16QAM	1	99	1	0	22.69
				64QAM	1	99	1	0	21.54
37952	2590.2	38150	2610	QPSK	1	99	1	0	23.55
				16QAM	1	99	1	0	22.61
				64QAM	1	99	1	0	21.52
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
37825	2577.5	37975	2592.5	QPSK	1	74	1	0	23.57
				16QAM	1	74	1	0	22.54
				64QAM	1	74	1	0	21.68
37925	2587.5	38075	2602.5	QPSK	1	74	1	0	23.52
				16QAM	1	74	1	0	22.57
				64QAM	1	74	1	0	21.59
38025	2597.5	38175	2612.5	QPSK	1	74	1	0	23.56
				16QAM	1	74	1	0	22.58
				64QAM	1	74	1	0	21.56

EIRP POWER (dBm)

Ant 4(UP):

CA_7C Ant4									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	21048	2529.8	QPSK	23.35	-1.4	21.95	156.68	2
				16QAM	22.41	-1.4	21.01	126.18	2
				64QAM	20.83	-1.4	19.43	87.7	2
21001	2525.1	21199	2544.9	QPSK	**23.46**	-1.4	22.06	160.69	2
				16QAM	22.54	-1.4	21.14	130.02	2
				64QAM	20.78	-1.4	19.38	86.7	2
21152	2540.2	21350	2560	QPSK	23.29	-1.4	21.89	154.53	2
				16QAM	22.16	-1.4	20.76	119.12	2
				64QAM	20.71	-1.4	19.31	85.31	2
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	21021	2527.1	QPSK	23.31	-1.4	21.91	155.24	2
				16QAM	22.38	-1.4	20.98	125.31	2
				64QAM	20.77	-1.4	19.37	86.5	2
21026	2527.6	21197	2544.7	QPSK	23.45	-1.4	22.05	160.32	2
				16QAM	22.41	-1.4	21.01	126.18	2
				64QAM	20.64	-1.4	19.24	83.95	2
21201	2545.1	21372	2562.2	QPSK	23.19	-1.4	21.79	151.01	2
				16QAM	22.06	-1.4	20.66	116.41	2
				64QAM	20.57	-1.4	19.17	82.6	2
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20828	2507.8	20999	2524.9	QPSK	23.21	-1.4	21.81	151.71	2
				16QAM	22.37	-1.4	20.97	125.03	2
				64QAM	20.75	-1.4	19.35	86.1	2
21003	2525.3	21174	2542.4	QPSK	23.32	-1.4	21.92	155.6	2
				16QAM	22.47	-1.4	21.07	127.94	2
				64QAM	20.68	-1.4	19.28	84.72	2
21179	2542.9	21350	2560	QPSK	23.15	-1.4	21.75	149.62	2
				16QAM	22.05	-1.4	20.65	116.14	2
				64QAM	20.55	-1.4	19.15	82.22	2

Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	20994	2524.4	QPSK	23.20	-1.4	21.8	151.36	2
				16QAM	22.30	-1.4	20.9	123.03	2
				64QAM	20.79	-1.4	19.39	86.9	2
21051	2530.1	21195	2544.5	QPSK	23.42	-1.4	22.02	159.22	2
				16QAM	22.51	-1.4	21.11	129.12	2
				64QAM	20.77	-1.4	19.37	86.5	2
21251	2550.1	21395	2564.5	QPSK	23.20	-1.4	21.8	151.36	2
				16QAM	22.14	-1.4	20.74	118.58	2
				64QAM	20.56	-1.4	19.16	82.41	2
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20805	2505.5	20949	2519.9	QPSK	23.24	-1.4	21.84	152.76	2
				16QAM	22.34	-1.4	20.94	124.17	2
				64QAM	20.69	-1.4	19.29	84.92	2
21006	2525.6	21150	2540	QPSK	23.40	-1.4	22	158.49	2
				16QAM	22.51	-1.4	21.11	129.12	2
				64QAM	20.68	-1.4	19.28	84.72	2
21206	21206	21350	21220.4	QPSK	23.15	-1.4	21.75	149.62	2
				16QAM	22.12	-1.4	20.72	118.03	2
				64QAM	20.59	-1.4	19.19	82.99	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20825	2507.5	20975	2522.5	QPSK	23.28	-1.4	21.88	154.17	2
				16QAM	22.33	-1.4	20.93	123.88	2
				64QAM	20.73	-1.4	19.33	85.7	2
21025	2527.5	21175	2542.5	QPSK	23.39	-1.4	21.99	158.12	2
				16QAM	22.40	-1.4	21	125.89	2
				64QAM	20.63	-1.4	19.23	83.75	2
21225	2547.5	21375	2562.5	QPSK	23.19	-1.4	21.79	151.01	2
				16QAM	22.11	-1.4	20.71	117.76	2
				64QAM	20.59	-1.4	19.19	82.99	2
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20825	2507.5	20945	2519.5	QPSK	23.31	-1.4	21.91	155.24	2
				16QAM	22.29	-1.4	20.89	122.74	2
				64QAM	20.77	-1.4	19.37	86.5	2
21051	2530.1	21171	2542.1	QPSK	23.43	-1.4	22.03	159.59	2
				16QAM	22.53	-1.4	21.13	129.72	2
				64QAM	20.76	-1.4	19.36	86.3	2
21277	2552.7	21397	2564.7	QPSK	23.18	-1.4	21.78	150.66	2
				16QAM	22.11	-1.4	20.71	117.76	2
				64QAM	20.58	-1.4	19.18	82.79	2

CA_38C Ant4									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
37850	2580	38048	2599.8	QPSK	23.13	-1.00	22.13	163.31	2
				16QAM	22.05	-1.00	21.05	127.35	2
				64QAM	21.07	-1.00	20.07	101.62	2
37901	2585.1	38099	2604.9	QPSK	23.08	-1.00	22.08	161.44	2
				16QAM	22.11	-1.00	21.11	129.12	2
				64QAM	21.09	-1.00	20.09	102.09	2
37952	2590.2	38150	2610	QPSK	**23.18**	-1.00	22.18	165.2	2
				16QAM	22.09	-1.00	21.09	128.53	2
				64QAM	21.10	-1.00	20.1	102.33	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
37825	2577.5	37975	2592.5	QPSK	23.09	-1.00	22.09	161.81	2
				16QAM	22.12	-1.00	21.12	129.42	2
				64QAM	21.13	-1.00	20.13	103.04	2
37925	2587.5	38075	2602.5	QPSK	23.05	-1.00	22.05	160.32	2
				16QAM	22.16	-1.00	21.16	130.62	2
				64QAM	21.05	-1.00	20.05	101.16	2
38025	2597.5	38175	2612.5	QPSK	23.14	-1.00	22.14	163.68	2
				16QAM	22.06	-1.00	21.06	127.64	2
				64QAM	21.07	-1.00	20.07	101.62	2

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

Ant 1(DOWN):

CA_7C Ant1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	21048	2529.8	QPSK	23.19	-0.6	22.59	181.55	2
				16QAM	22.62	-0.6	22.02	159.22	2
				64QAM	21.14	-0.6	20.54	113.24	2
21001	2525.1	21199	2544.9	QPSK	**23.24**	-0.6	22.64	183.65	2
				16QAM	22.58	-0.6	21.98	157.76	2
				64QAM	21.19	-0.6	20.59	114.55	2
21152	2540.2	21350	2560	QPSK	23.15	-0.6	22.55	179.89	2
				16QAM	22.54	-0.6	21.94	156.31	2
				64QAM	21.07	-0.6	20.47	111.43	2
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	21021	2527.1	QPSK	23.10	-0.6	22.5	177.83	2
				16QAM	22.58	-0.6	21.98	157.76	2
				64QAM	21.12	-0.6	20.52	112.72	2
21026	2527.6	21197	2544.7	QPSK	23.05	-0.6	22.45	175.79	2
				16QAM	22.49	-0.6	21.89	154.53	2
				64QAM	21.13	-0.6	20.53	112.98	2
21201	2545.1	21372	2562.2	QPSK	23.07	-0.6	22.47	176.6	2
				16QAM	22.45	-0.6	21.85	153.11	2
				64QAM	21.09	-0.6	20.49	111.94	2
Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20828	2507.8	20999	2524.9	QPSK	23.20	-0.6	22.6	181.97	2
				16QAM	22.47	-0.6	21.87	153.82	2
				64QAM	21.13	-0.6	20.53	112.98	2
21003	2525.3	21174	2542.4	QPSK	23.17	-0.6	22.57	180.72	2
				16QAM	22.41	-0.6	21.81	151.71	2
				64QAM	21.12	-0.6	20.52	112.72	2
21179	2542.9	21350	2560	QPSK	23.12	-0.6	22.52	178.65	2
				16QAM	22.45	-0.6	21.85	153.11	2
				64QAM	21.06	-0.6	20.46	111.17	2

Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20850	2510	20994	2524.4	QPSK	23.12	-0.6	22.52	178.65	2
				16QAM	22.34	-0.6	21.74	149.28	2
				64QAM	21.08	-0.6	20.48	111.69	2
21051	2530.1	21195	2544.5	QPSK	23.08	-0.6	22.48	177.01	2
				16QAM	22.47	-0.6	21.87	153.82	2
				64QAM	21.10	-0.6	20.5	112.2	2
21251	2550.1	21395	2564.5	QPSK	23.13	-0.6	22.53	179.06	2
				16QAM	22.29	-0.6	21.69	147.57	2
				64QAM	21.14	-0.6	20.54	113.24	2
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20805	2505.5	20949	2519.9	QPSK	23.09	-0.6	22.49	177.42	2
				16QAM	22.55	-0.6	21.95	156.68	2
				64QAM	21.04	-0.6	20.44	110.66	2
21006	2525.6	21150	2540	QPSK	23.18	-0.6	22.58	181.13	2
				16QAM	22.46	-0.6	21.86	153.46	2
				64QAM	21.12	-0.6	20.52	112.72	2
21206	21206	21350	21220.4	QPSK	23.15	-0.6	22.55	179.89	2
				16QAM	22.50	-0.6	21.9	154.88	2
				64QAM	21.05	-0.6	20.45	110.92	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20825	2507.5	20975	2522.5	QPSK	23.12	-0.6	22.52	178.65	2
				16QAM	22.61	-0.6	22.01	158.85	2
				64QAM	21.13	-0.6	20.53	112.98	2
21025	2527.5	21175	2542.5	QPSK	23.05	-0.6	22.45	175.79	2
				16QAM	22.55	-0.6	21.95	156.68	2
				64QAM	21.18	-0.6	20.58	114.29	2
21225	2547.5	21375	2562.5	QPSK	23.22	-0.6	22.62	182.81	2
				16QAM	22.49	-0.6	21.89	154.53	2
				64QAM	21.17	-0.6	20.57	114.02	2
Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
20825	2507.5	20945	2519.5	QPSK	23.09	-0.6	22.49	177.42	2
				16QAM	22.51	-0.6	21.91	155.24	2
				64QAM	21.07	-0.6	20.47	111.43	2
21051	2530.1	21171	2542.1	QPSK	23.05	-0.6	22.45	175.79	2
				16QAM	22.44	-0.6	21.84	152.76	2
				64QAM	21.17	-0.6	20.57	114.02	2
21277	2552.7	21397	2564.7	QPSK	23.11	-0.6	22.51	178.24	2
				16QAM	22.42	-0.6	21.82	152.05	2
				64QAM	21.05	-0.6	20.45	110.92	2

CA_38C Ant1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
37850	2580	38048	2599.8	QPSK	23.54	-0.60	22.94	196.79	2
				16QAM	22.57	-0.60	21.97	157.4	2
				64QAM	21.59	-0.60	20.99	125.6	2
37901	2585.1	38099	2604.9	QPSK	**23.59**	-0.60	22.99	199.07	2
				16QAM	22.69	-0.60	22.09	161.81	2
				64QAM	21.54	-0.60	20.94	124.17	2
37952	2590.2	38150	2610	QPSK	23.55	-0.60	22.95	197.24	2
				16QAM	22.61	-0.60	22.01	158.85	2
				64QAM	21.52	-0.60	20.92	123.59	2
Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP(dBm)	EIRP(mW)	Limit（W）
37825	2577.5	37975	2592.5	QPSK	23.57	-0.60	22.97	198.15	2
				16QAM	22.54	-0.60	21.94	156.31	2
				64QAM	21.68	-0.60	21.08	128.23	2
37925	2587.5	38075	2602.5	QPSK	23.52	-0.60	22.92	195.88	2
				16QAM	22.57	-0.60	21.97	157.4	2
				64QAM	21.59	-0.60	20.99	125.6	2
38025	2597.5	38175	2612.5	QPSK	23.56	-0.60	22.96	197.7	2
				16QAM	22.58	-0.60	21.98	157.76	2
				64QAM	21.56	-0.60	20.96	124.74	2

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

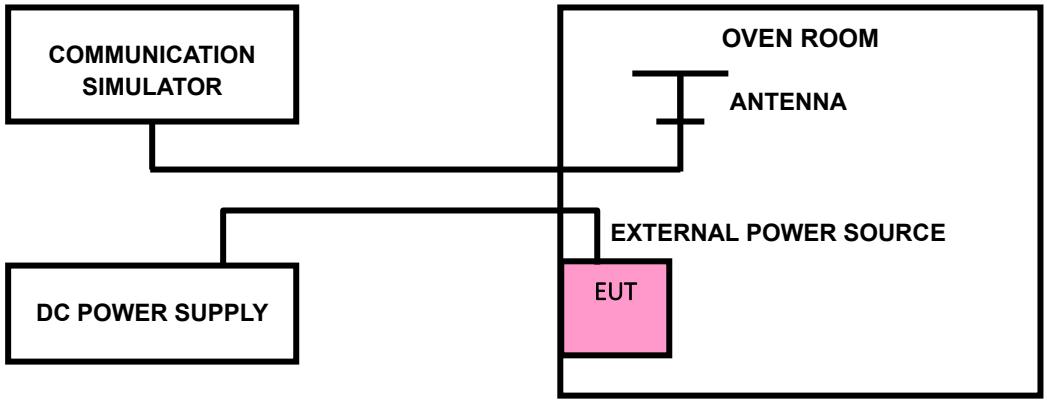
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 ±0.5℃ 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



3.2.4 TEST RESULTS

LTE BAND CA_7C

LTE BAND CA_7C channel and Frequency List					
BW(MHz)	**Channel/Frequcncy(MHz)**		**Lowest**	**Middle**	**Highest**
10+20	PCC	channel	20805	21006	21206
		Frequcncy	2505.5	2525.6	2545.6
	SCC	channel	20949	21150	21350
		Frequcncy	2519.9	2540	2560
15+10	PCC	channel	20825	21051	21277
		Frequcncy	2507.5	2530.1	2552.7
	SCC	channel	20945	21171	21397
		Frequcncy	2519.5	2542.1	2564.7
15+15	PCC	channel	20825	21025	21225
		Frequcncy	2507.5	2527.5	2547.5
	SCC	channel	20975	21175	21375
		Frequcncy	2522.5	2542.5	2562.5
15+20	PCC	channel	20828	21003	21179
		Frequcncy	2507.8	2525.3	2542.9
	SCC	channel	20999	21174	21350
		Frequcncy	2524.9	2542.4	2560
20+10	PCC	channel	20850	21051	21251
		Frequcncy	2510	2530.1	2550.1
	SCC	channel	20994	21195	21395
		Frequcncy	2524.4	2544.5	2564.5
20+15	PCC	channel	20850	21026	21201
		Frequcncy	2510	2527.6	2545.1
	SCC	channel	21021	21197	21372
		Frequcncy	2527.1	2544.7	2562.2
20+20	PCC	channel	20850	21001	21152
		Frequcncy	2510	2525.1	2540.2
	SCC	channel	21048	21199	21350
		Frequcncy	2529.8	2544.9	2560

LTE BAND CA_38C

LTE BAND CA_38C channel and Frequency List					
BW(MHz)	**Channel/Frequcncy(MHz)**		**Lowest**	**Middle**	**Highest**
15+15	PCC	channel	37825	37925	38025
		Frequcncy	2577.5	2587.5	2597.5
	SCC	channel	37975	38075	38175
		Frequcncy	2592.5	2602.5	2612.5
20+20	PCC	channel	37850	37901	37952
		Frequcncy	2580.0	2585.1	2590.2
	SCC	channel	38048	38099	38150
		Frequcncy	2599.8	2604.9	2610

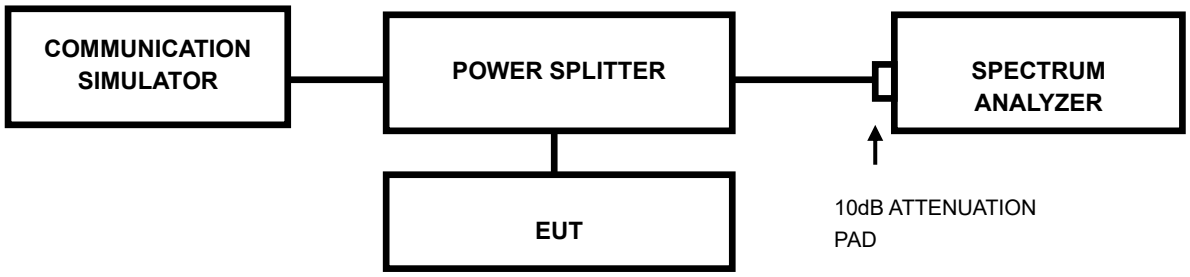
Note: VL = Low voltage(3.7V); VN/NV = Normal voltage(3.91); VH = High voltage(4.3V);
NT = Normal temperature (25℃)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

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

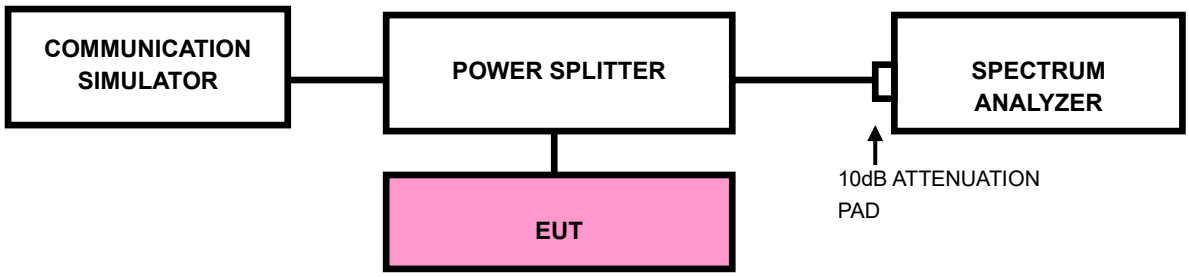
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

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 ≧3 x 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 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

For: LTE Band7C

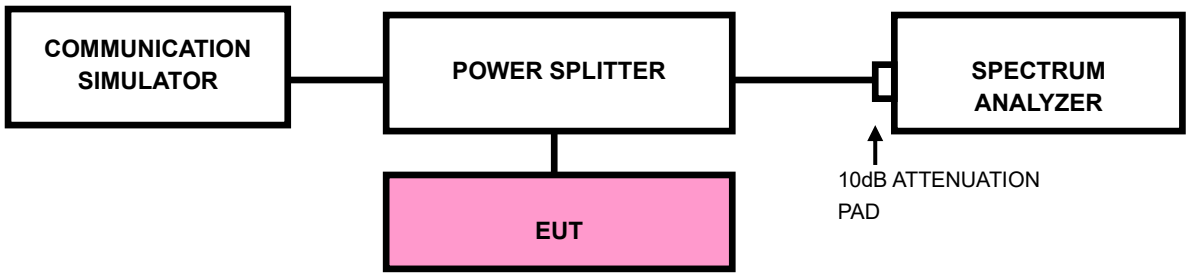
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25dBm.

3.5.2 TEST PROCEDURE

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high 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



3.5.4 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.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

For: LTE Band7C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25dBm.

.

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.R.P power - 2.15dBi.

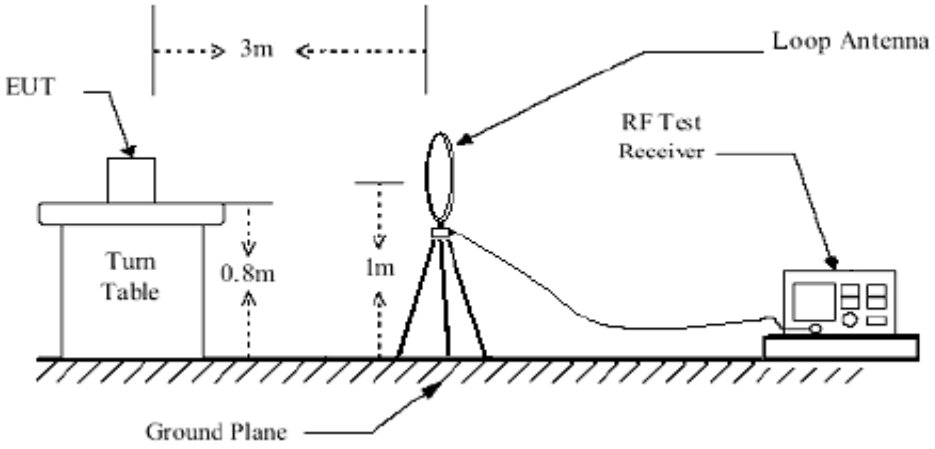
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

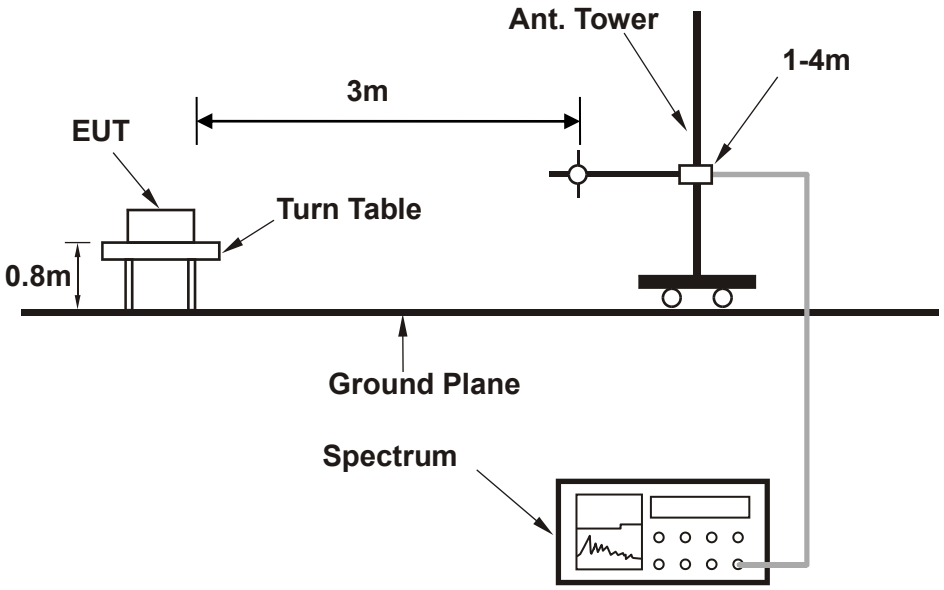
No deviation

3.6.4 TEST SETUP

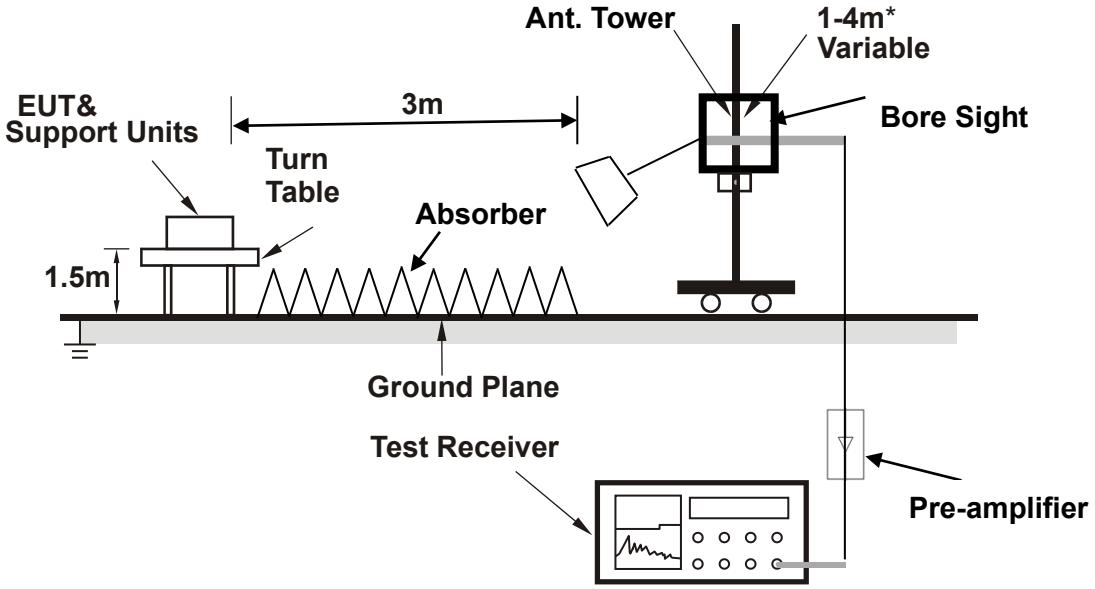
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



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

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

3.6.5 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

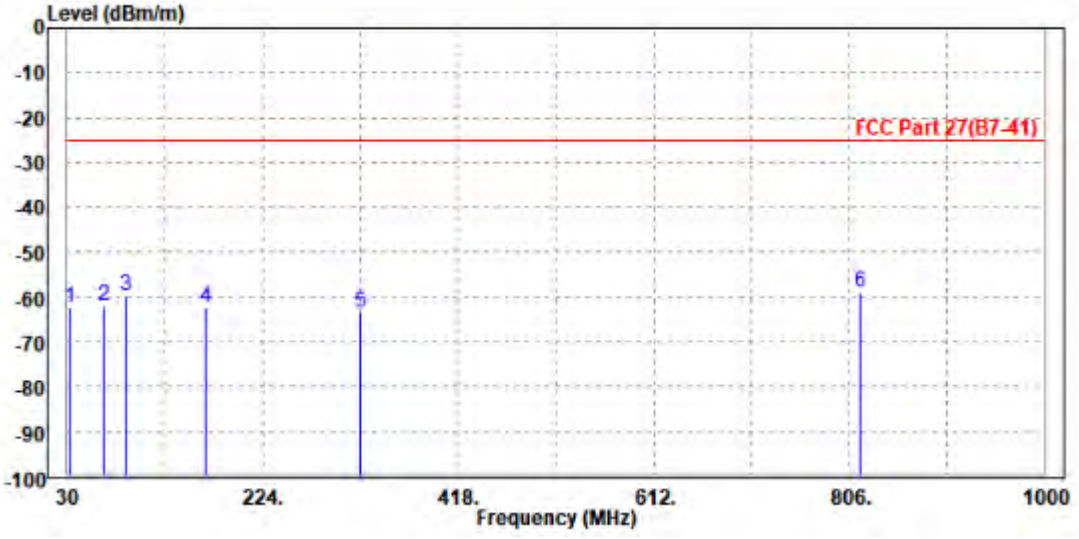
30 MHz – 1GHz data:

LTE Band CA_7C(Ant4) (UP):

CHANNEL BANDWIDTH: (20+20) MHz / QPSK

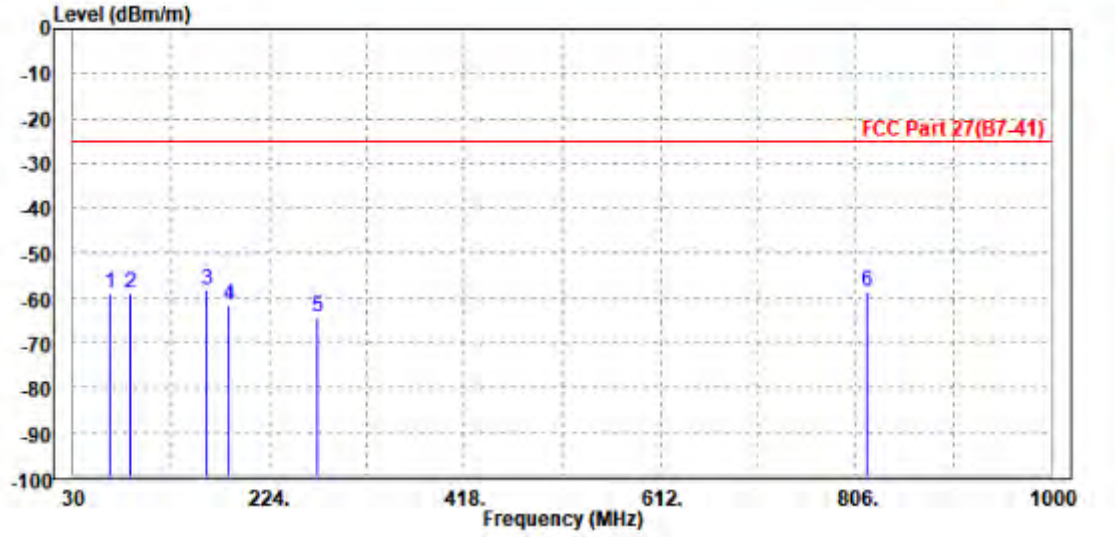
MODE	TX channel PCC 21001 TX channel SCC 21199	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-62.35	-59.31	-25.00	-37.35	-3.04	Peak	Horizontal
2	65.890	-62.04	-49.73	-25.00	-37.04	-12.31	Peak	Horizontal
3	88.200	-59.70	-46.97	-25.00	-34.70	-12.73	Peak	Horizontal
4	166.770	-62.39	-46.12	-25.00	-37.39	-16.27	Peak	Horizontal
5	321.000	-63.51	-55.10	-25.00	-38.51	-8.41	Peak	Horizontal
6 PP	817.640	-58.95	-63.34	-25.00	-33.95	4.39	Peak	Horizontal



MODE	TX channel PCC 21001	FREQUENCY RANGE	Above 1000MHz
	TX channel SCC 21199		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		65.890	-58.90	-39.28	-25.00	-33.90	-19.62	Peak	Vertical
2		87.230	-58.96	-41.14	-25.00	-33.96	-17.82	Peak	Vertical
3	PP	162.890	-58.18	-47.61	-25.00	-33.18	-10.57	Peak	Vertical
4		185.200	-61.73	-53.33	-25.00	-36.73	-8.40	Peak	Vertical
5		272.500	-64.24	-60.65	-25.00	-39.24	-3.59	Peak	Vertical
6		816.670	-58.42	-64.62	-25.00	-33.42	6.20	Peak	Vertical



ABOVE 1GHz

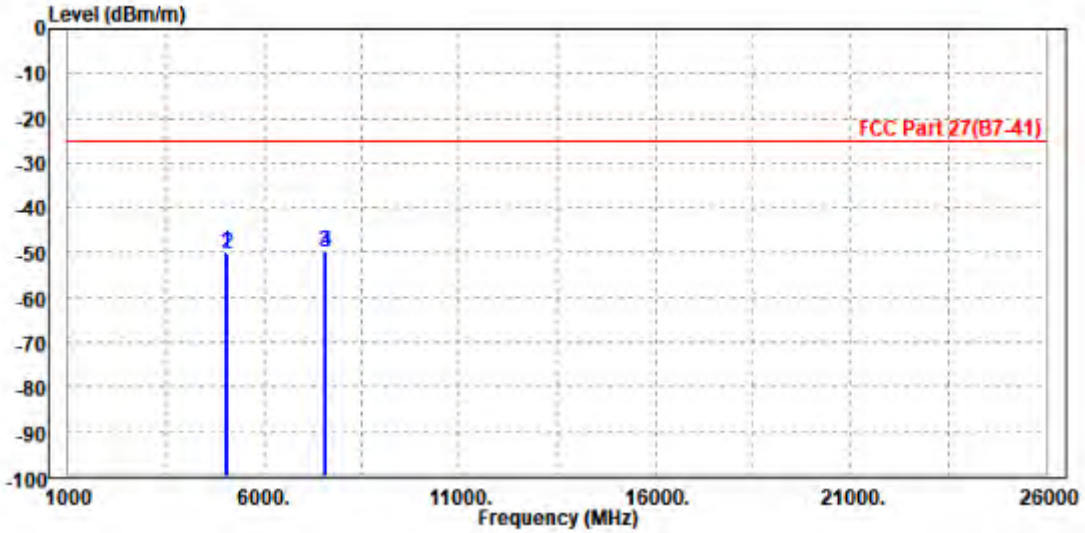
Note: For higher frequency, the emission is too low to be detected.

LTE Band CA _7C(Ant4) (UP):

CHANNEL BANDWIDTH: (20+20) MHz / QPSK

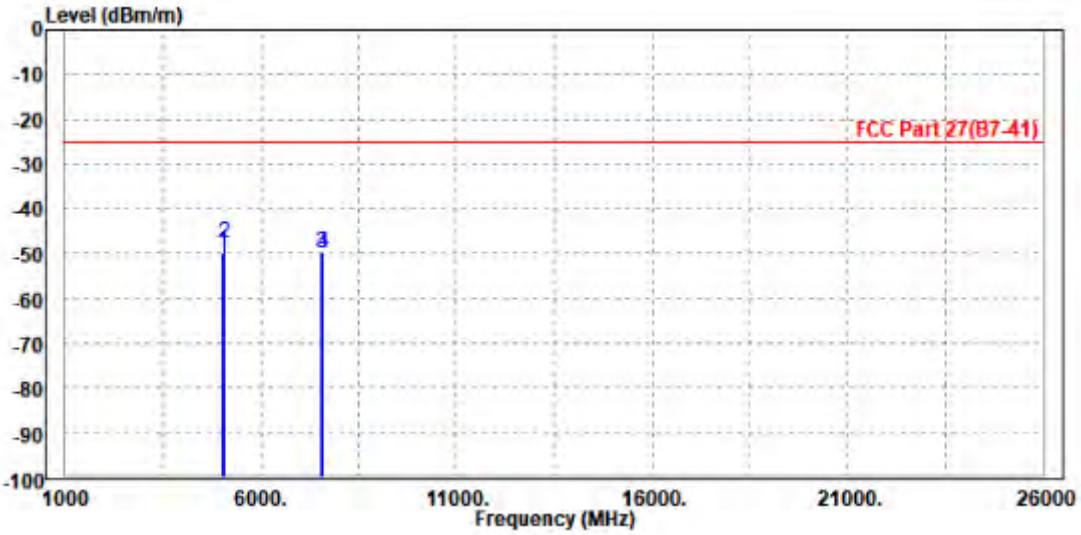
MODE	TX channel PCC 21001 TX channel SCC 21199	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		5025.000	-49.72	-60.82	-25.00	-24.72	11.10	Peak	Horizontal
2		5070.000	-50.23	-61.39	-25.00	-25.23	11.16	Peak	Horizontal
3		7530.000	-49.70	-64.09	-25.00	-24.70	14.39	Peak	Horizontal
4	PP	7605.000	-49.63	-64.15	-25.00	-24.63	14.52	Peak	Horizontal



MODE	TX channel PCC 21001 TX channel SCC 21199	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5025.000	-49.72	-61.14	-25.00	-24.72	11.42	Peak	Vertical
2 PP	5070.000	-47.42	-58.93	-25.00	-22.42	11.51	Peak	Vertical
3	7530.000	-49.89	-63.04	-25.00	-24.89	13.15	Peak	Vertical
4	7605.000	-49.93	-63.41	-25.00	-24.93	13.48	Peak	Vertical

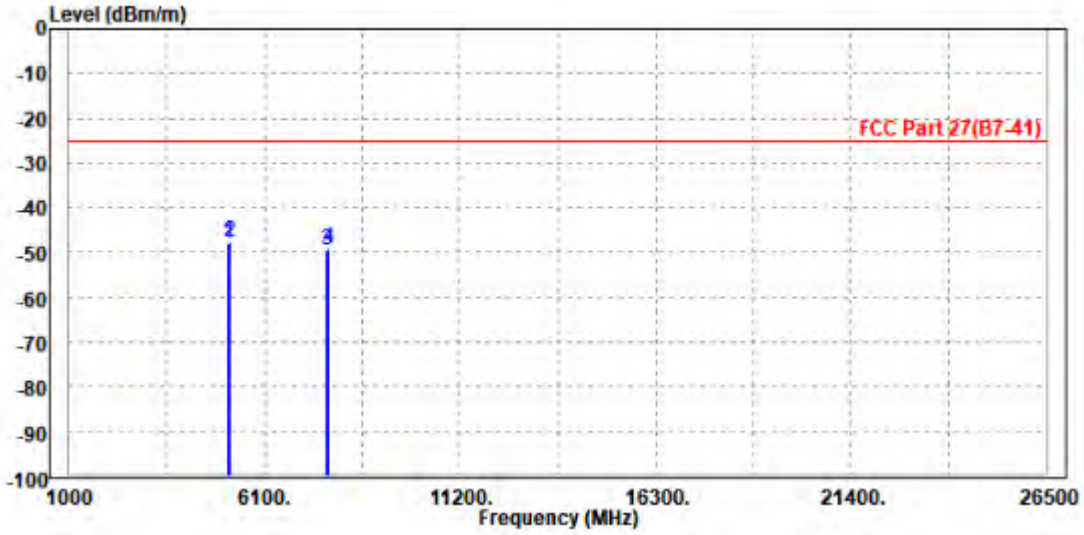


LTE Band CA _38C(Ant1) (DOWN):

CHANNEL BANDWIDTH: (20+20) MHz / QPSK

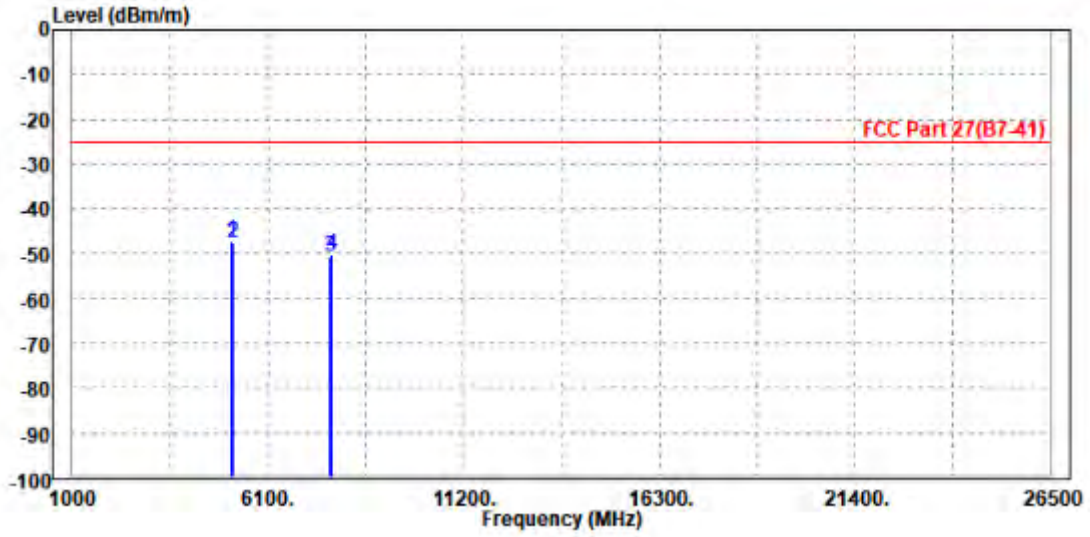
MODE	TX channel PCC 37901 TX channel SCC 38099	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		5160.000	-47.97	-59.27	-25.00	-22.97	11.30	Peak	Horizontal
2	PP	5190.000	-47.46	-58.80	-25.00	-22.46	11.34	Peak	Horizontal
3		7740.000	-49.44	-64.19	-25.00	-24.44	14.75	Peak	Horizontal
4		7785.000	-49.23	-64.06	-25.00	-24.23	14.83	Peak	Horizontal



MODE	TX channel PCC 37901	FREQUENCY RANGE	Above 1000MHz
	TX channel SCC 38099		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5160.000	-47.32	-59.00	-25.00	-22.32	11.68	Peak	Vertical
2	5190.000	-47.60	-59.34	-25.00	-22.60	11.74	Peak	Vertical
3	7740.000	-50.45	-64.51	-25.00	-25.45	14.06	Peak	Vertical
4	7783.000	-50.00	-64.25	-25.00	-25.00	14.25	Peak	Vertical

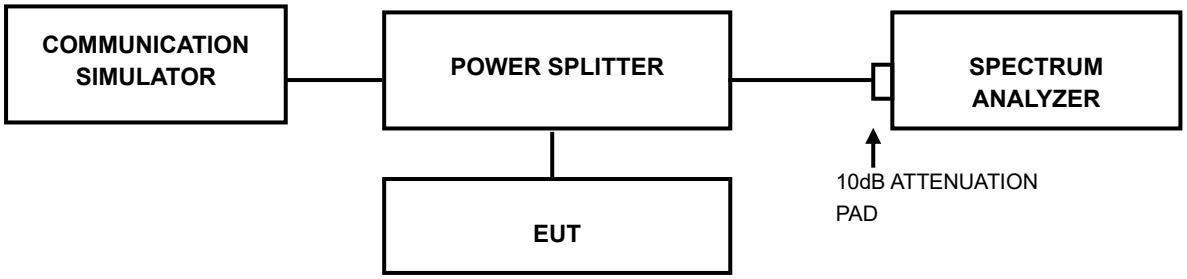


3.7 PEAK TO AVERAGE RATIO

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

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

Shenzhen EMC/RF Lab:
Tel: +86-755-88696566
Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com
Web Site: www.adt.com.tw

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

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.

6 APPENDIX

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7C

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.145	24.60	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.158	24.64	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.143	24.63	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.143	24.58	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.138	24.58	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.098	24.63	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.793	29.44	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.783	29.47	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.799	29.40	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.772	29.47	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.791	29.42	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.749	29.47	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.450	30.21	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.381	30.17	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.358	30.09	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.380	30.18	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.331	30.12	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.341	30.21	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.672	34.66	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.724	34.68	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.646	34.61	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.707	34.73	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.647	34.58	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.614	34.61	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.809	29.50	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.780	29.43	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.671	29.45	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.795	29.37	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.780	29.38	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.664	29.39	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.679	34.64	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.679	34.68	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.663	34.55	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.705	35.01	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.671	34.57	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.568	34.58	PASS

7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.583	39.86	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.577	39.79	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.568	40.44	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.658	40.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.540	39.83	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.519	39.89	PASS

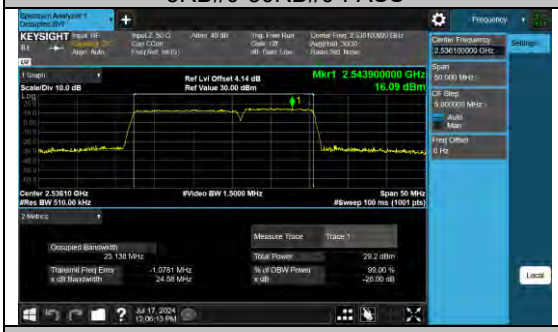
Test Graphs

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0-PASS

7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0-PASS

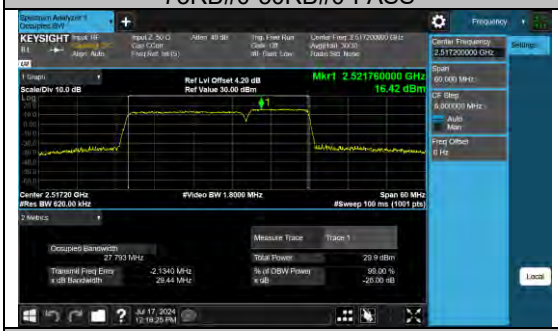
7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0-PASS

7-7-15MHz-10MHz-16QAM-16QAM-20825-20945-75RB#0-50RB#0-PASS



7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0-PASS

7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-75RB#0-50RB#0-PASS

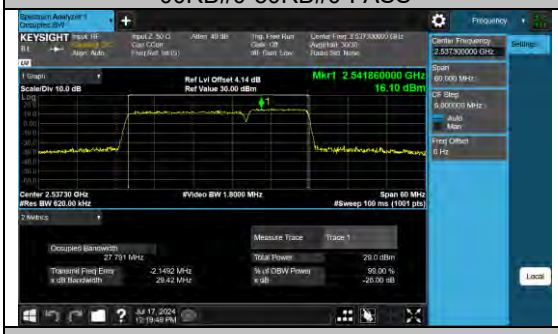


7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0-PASS

7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0-PASS

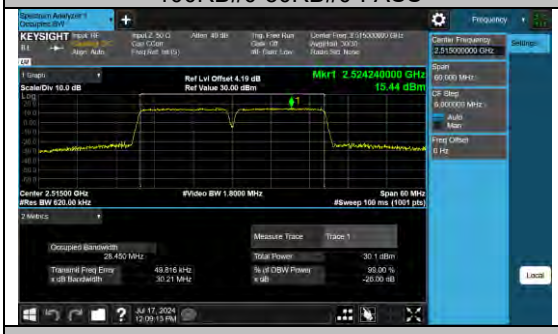
7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0-PASS

7-7-20MHz-10MHz-16QAM-16QAM-20850-20994-100RB#0-50RB#0-PASS



7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0-PASS

7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0-PASS

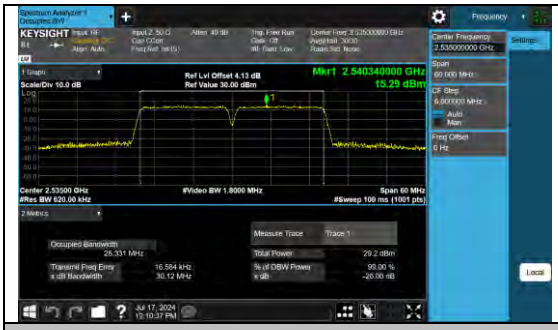


7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0-PASS

7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0-PASS

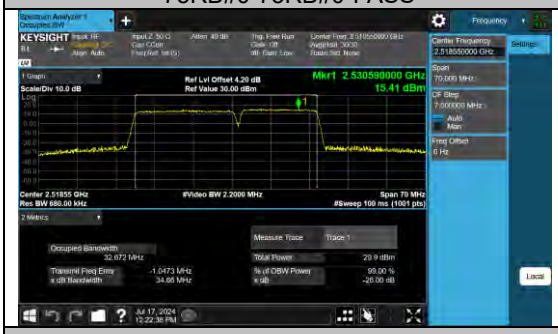
7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0-PASS

7-7-15MHz-15MHz-16QAM-16QAM-20825-20975-75RB#0-75RB#0-PASS

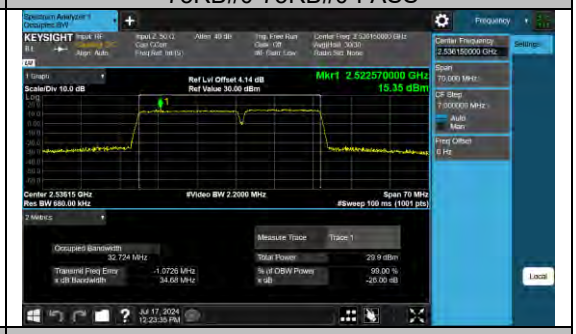


7-7-15MHz-15MHz-16QAM-16QAM-21025-21175-75RB#0-75RB#0-PASS

7-7-15MHz-15MHz-16QAM-16QAM-21225-21375-75RB#0-75RB#0-PASS

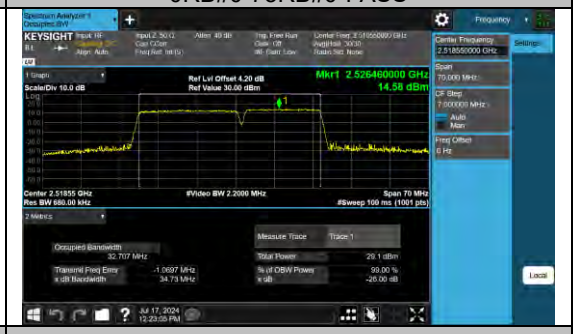


7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0-PASS



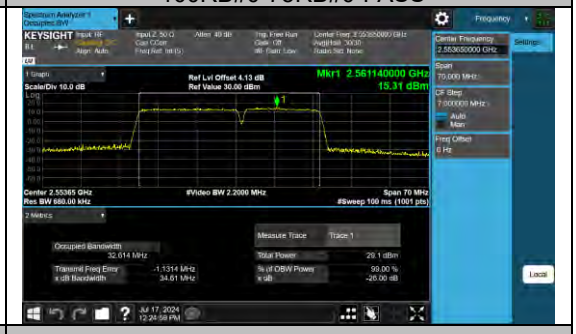
7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0-PASS

7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0-PASS



7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0-PASS

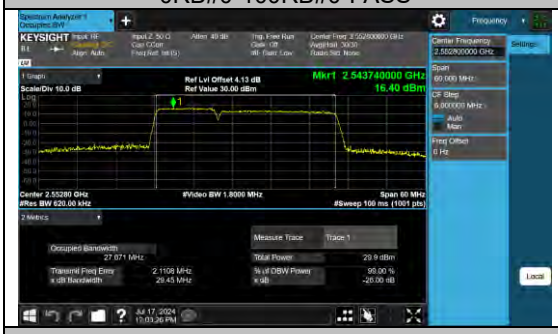
7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-100RB#0-75RB#0-PASS



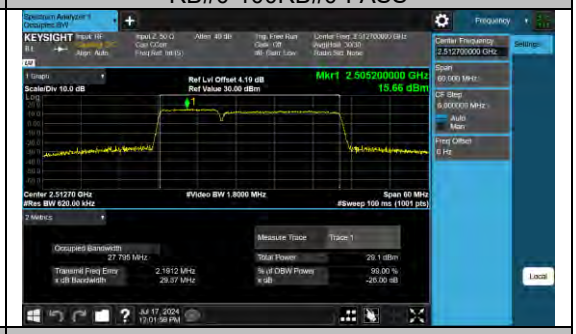
7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-100RB#0-75RB#0-PASS

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0-PASS

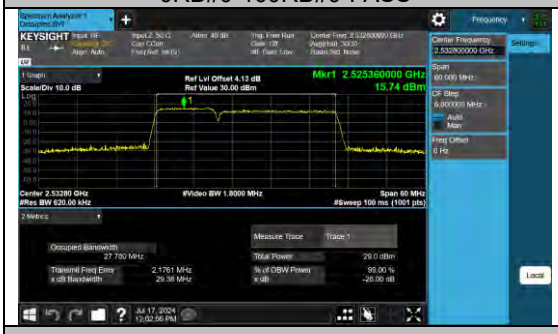
7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0-PASS



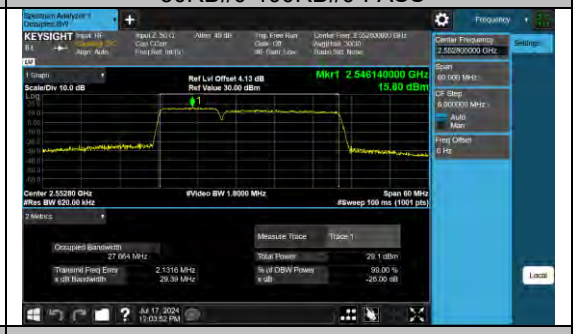
7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0-PASS



7-7-10MHz-20MHz-16QAM-16QAM-20805-20949-50RB#0-100RB#0-PASS

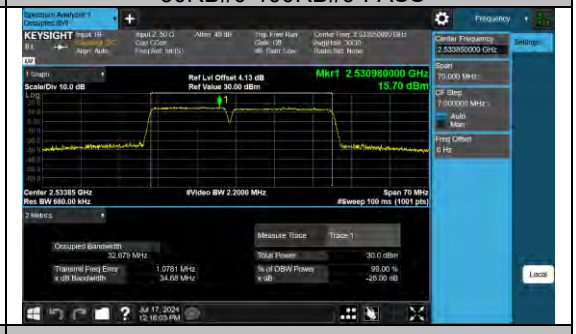


7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0-PASS



7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0-PASS

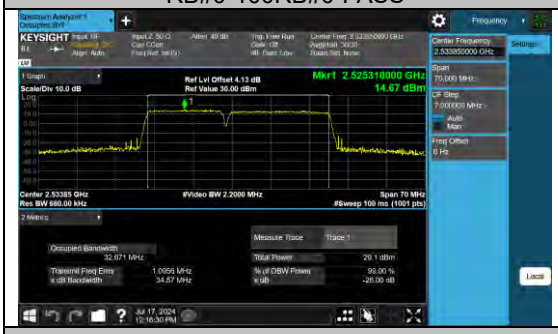
7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0-PASS



7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0-PASS

7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0-PASS

7-7-15MHz-20MHz-16QAM-16QAM-20828-20999-75RB#0-100RB#0-PASS



7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0-PASS

7-7-15MHz-20MHz-16QAM-16QAM-21179-21350-75RB#0-100RB#0-PASS

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0-PASS

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0-PASS

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0-PASS

7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0-PASS

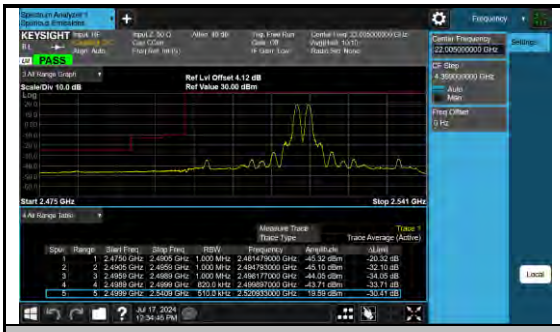
	
7-7-20MHz-20MHz-16QAM-16QAM-21001-21199 -100RB#0-100RB#0-PASS	7-7-20MHz-20MHz-16QAM-16QAM-21152-21350 -100RB#0-100RB#0-PASS

BAND EDGE

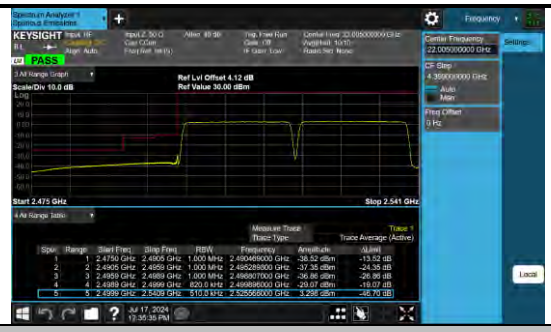
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	20850-21048	1RB#99@100RB#0-1RB#0@100RB#0	-45.32	PASS
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	20850-21048	100RB#0@100RB#0-100RB#0@100RB#0	-38.52	PASS
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	20850-21048	1RB#0@100RB#0-1RB#99@100RB#0	-16.63	PASS
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	21152-21350	1RB#99@100RB#0-1RB#0@100RB#0	-46.21	PASS
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	21152-21350	100RB#0@100RB#0-100RB#0@100RB#0	-30.20	PASS
7-7	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	21152-21350	1RB#0@100RB#0-1RB#99@100RB#0	-17.20	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	20850-21048	1RB#99@100RB#0-1RB#0@100RB#0	-45.50	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	20850-21048	100RB#0@100RB#0-100RB#0@100RB#0	-40.30	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	20850-21048	1RB#0@100RB#0-1RB#99@100RB#0	-16.30	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	21152-21350	1RB#99@100RB#0-1RB#0@100RB#0	-46.24	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	21152-21350	100RB#0@100RB#0-100RB#0@100RB#0	-31.16	PASS
7-7	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	21152-21350	1RB#0@100RB#0-1RB#99@100RB#0	-17.36	PASS

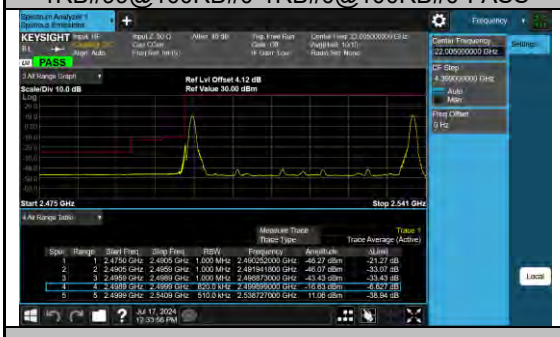
Test Graphs



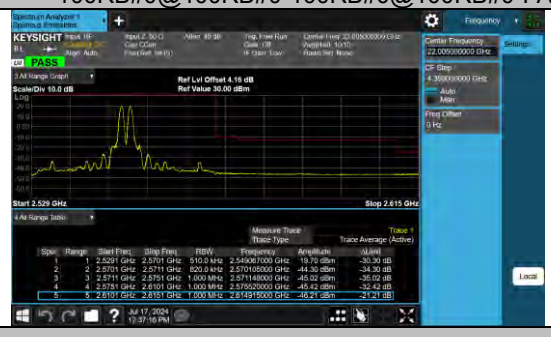
7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-20850-21048-1RB#99@100RB#0-1RB#0@100RB#0-PASS



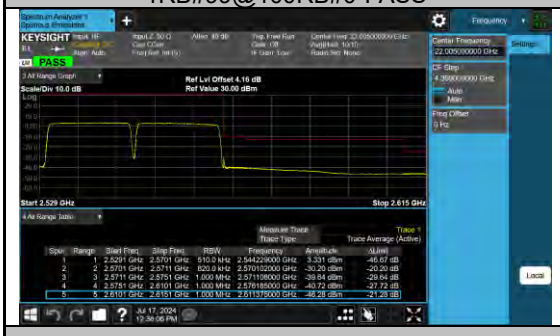
7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-20850-21048-100RB#0@100RB#0-100RB#0@100RB#0-PASS



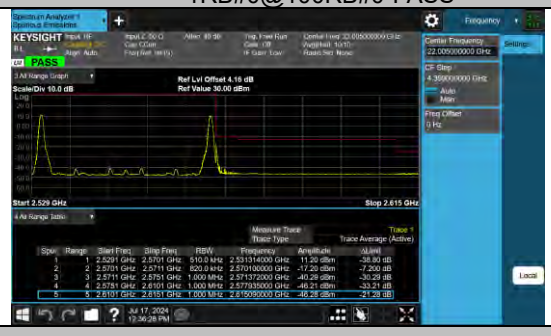
7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-20850-21048-1RB#0@100RB#0-1RB#99@100RB#0-PASS



7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-1RB#99@100RB#0-1RB#0@100RB#0-PASS



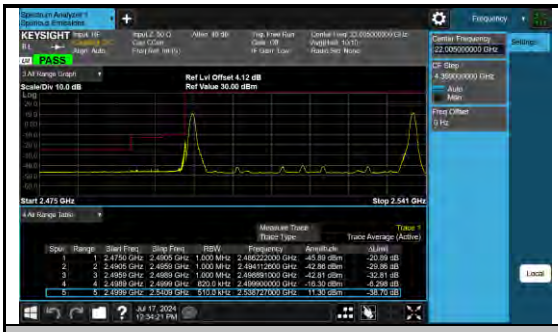
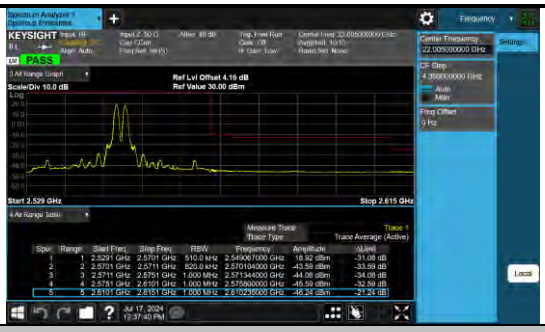
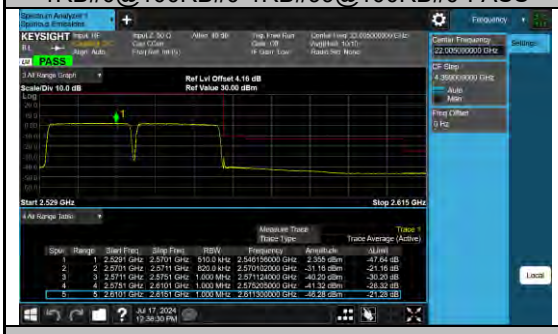
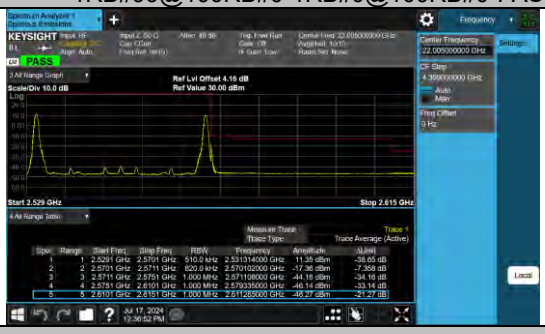
7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-100RB#0@100RB#0-100RB#0@100RB#0-PASS



7-7-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-21152-21350-1RB#0@100RB#0-1RB#99@100RB#0-PASS

7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-20850-21048-1RB#99@100RB#0-1RB#0@100RB#0-PASS

7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-20850-21048-100RB#0@100RB#0-100RB#0@100RB#0-PASS

	
7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-20850-21048-1RB#0@100RB#0-1RB#99@100RB#0-PASS	7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-21152-21350-1RB#99@100RB#0-1RB#0@100RB#0-PASS
	
7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-21152-21350-100RB#0@100RB#0-100RB#0@100RB#0-PASS	7-7-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-21152-21350-1RB#0@100RB#0-1RB#99@100RB#0-PASS

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#99-1RB#0	30~1000MHz	-59.75	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#99-1RB#0	1000~10000MHz	-51.54	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#99-1RB#0	10000~20000MHz	-58.52	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#99-1RB#0	20000~27000MHz	-53.76	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#99-1RB#0	30~1000MHz	-59.77	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#99-1RB#0	1000~10000MHz	-51.57	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#99-1RB#0	10000~20000MHz	-58.45	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#99-1RB#0	20000~27000MHz	-53.72	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#99-1RB#0	30~1000MHz	-59.75	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#99-1RB#0	1000~10000MHz	-51.49	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#99-1RB#0	10000~20000MHz	-58.38	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#99-1RB#0	20000~27000MHz	-53.69	PASS

Test Graphs

	
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#99-1RB#0-30~1000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#99-1RB#0-1000~10000MHz-PASS
	
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#99-1RB#0-10000~20000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#99-1RB#0-20000~27000MHz-PASS
	
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#99-1RB#0-30~1000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#99-1RB#0-1000~10000MHz-PASS
	
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#99-1RB#0-10000~20000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#99-1RB#0-20000~27000MHz-PASS

	
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#99-1RB#0-30~1000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#99-1RB#0-1000~10000MHz-PASS
	
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#99-1RB#0-10000~20000MHz-PASS	7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#99-1RB#0-20000~27000MHz-PASS

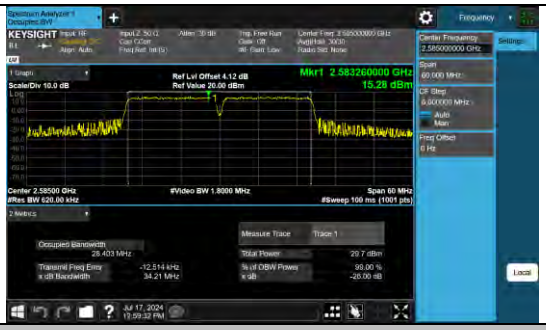
38C

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

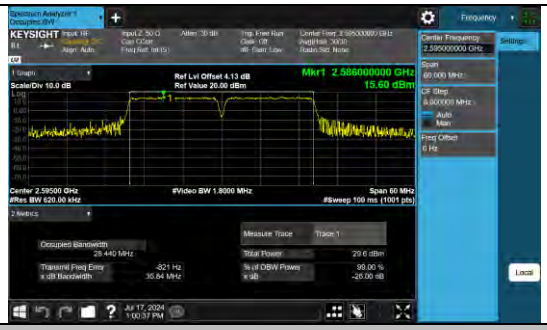
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.403	34.21	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.440	35.84	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.384	32.18	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.405	37.64	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.350	36.66	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.373	31.90	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.682	40.30	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.612	46.09	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.688	44.85	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.760	43.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.615	41.37	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.672	42.24	PASS

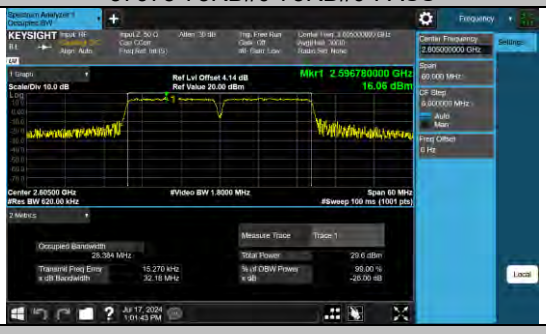
Test Graphs



38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0-PASS

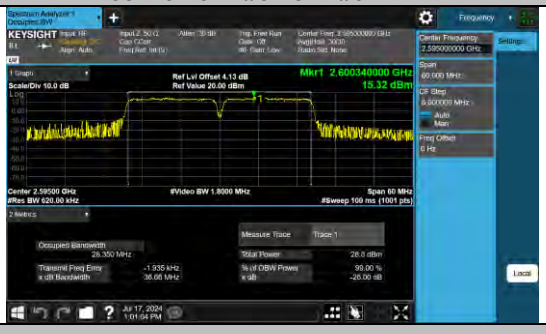


38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0-PASS

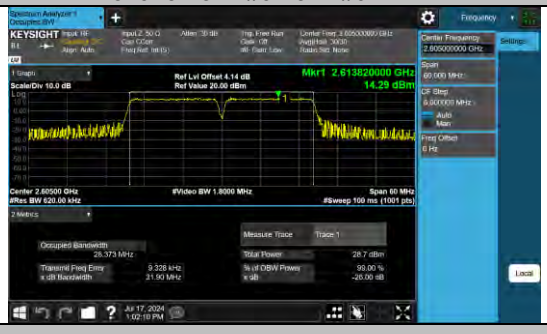


38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0-PASS

38-38-15MHz-15MHz-16QAM-16QAM-37825-37975-75RB#0-75RB#0-PASS



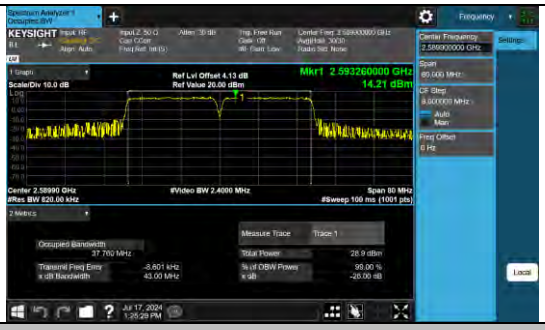
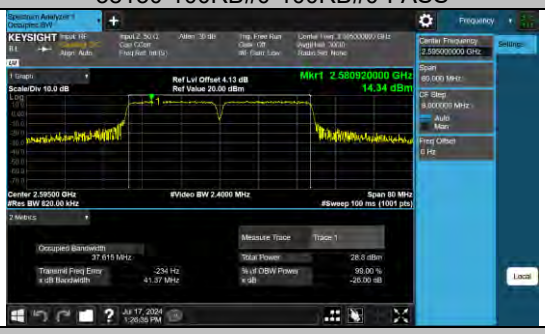
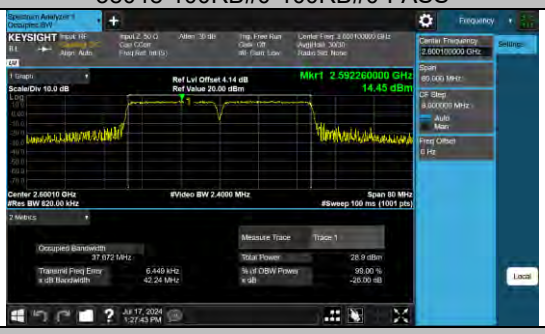
38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0-PASS



38-38-15MHz-15MHz-16QAM-16QAM-38025-38175-75RB#0-75RB#0-PASS

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0-PASS

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0-PASS

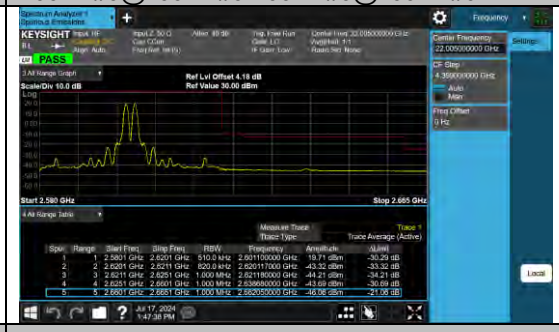
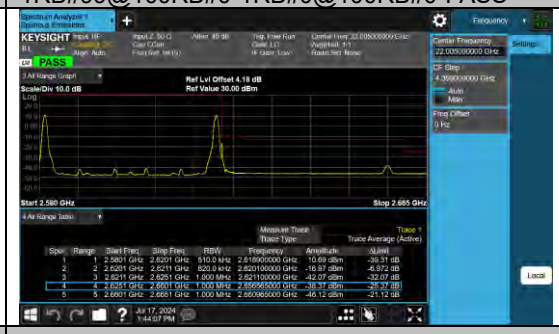
	
38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0-PASS	38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0-PASS
	
38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0-PASS	38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0-PASS

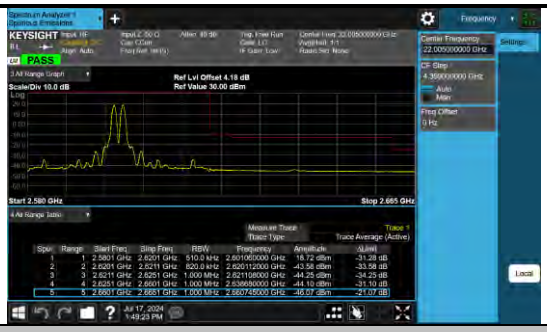
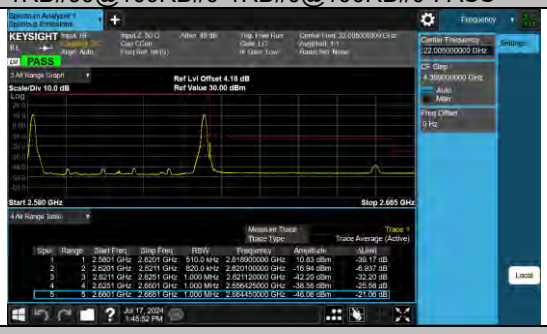
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	1RB#99@100RB#0-1RB#0@100RB#0	-46.22	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	100RB#0@100RB#0-100RB#0@100RB#0	-43.30	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	1RB#0@100RB#0-1RB#99@100RB#0	-15.99	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	1RB#99@100RB#0-1RB#0@100RB#0	-46.06	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	100RB#0@100RB#0-100RB#0@100RB#0	-43.15	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	1RB#0@100RB#0-1RB#99@100RB#0	-16.97	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	1RB#99@100RB#0-1RB#0@100RB#0	-46.14	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	100RB#0@100RB#0-100RB#0@100RB#0	-29.20	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	1RB#0@100RB#0-1RB#99@100RB#0	-46.23	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	1RB#99@100RB#0-1RB#0@100RB#0	-46.07	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	100RB#0@100RB#0-100RB#0@100RB#0	-44.31	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	1RB#0@100RB#0-1RB#99@100RB#0	-16.94	PASS

Test Graphs

	
38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37850-38048-1RB#99@100RB#0-1RB#0@100RB#0-PASS	38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37850-38048-100RB#0@100RB#0-100RB#0@100RB#0-PASS
	
38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37850-38048-1RB#0@100RB#0-1RB#99@100RB#0-PASS	38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37952-38150-1RB#99@100RB#0-1RB#0@100RB#0-PASS
	
38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37952-38150-100RB#0@100RB#0-100RB#0@100RB#0-PASS	38-38-20MHz-20MHz-QPSK@QPSK-QPSK@QPSK-37952-38150-1RB#0@100RB#0-1RB#99@100RB#0-PASS
	
38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37850-38048-1RB#99@100RB#0-1RB#0@100RB#0-PASS	38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37850-38048-100RB#0@100RB#0-100RB#0@100RB#0-PASS

	
38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37850-38048-1RB#0@100RB#0-1RB#99@100RB#0-PASS	38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37952-38150-1RB#99@100RB#0-1RB#0@100RB#0-PASS
	
38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37952-38150-100RB#0@100RB#0-100RB#0@100RB#0-PASS	38-38-20MHz-20MHz-16QAM@16QAM-16QAM@16QAM-37952-38150-1RB#0@100RB#0-1RB#99@100RB#0-PASS

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-1RB#0	30~1000MHz	-59.02	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-1RB#0	1000~10000MHz	-50.63	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-1RB#0	10000~20000MHz	-57.31	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-1RB#0	20000~27000MHz	-52.72	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-1RB#0	30~1000MHz	-51.49	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-1RB#0	1000~10000MHz	-50.72	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-1RB#0	10000~20000MHz	-57.53	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-1RB#0	20000~27000MHz	-52.99	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#99-1RB#0	30~1000MHz	-51.72	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#99-1RB#0	1000~10000MHz	-50.84	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#99-1RB#0	10000~20000MHz	-57.41	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#99-1RB#0	20000~27000MHz	-52.4	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-1RB#0	30~1000MHz	-58.96	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-1RB#0	1000~10000MHz	-50.5	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-1RB#0	10000~20000MHz	-57.45	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-1RB#0	20000~27000MHz	-52.7	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-1RB#0	30~1000MHz	-52.75	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-1RB#0	1000~10000MHz	-50.52	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-1RB#0	10000~20000MHz	-57.52	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-1RB#0	20000~27000MHz	-52.46	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#99-1RB#0	30~1000MHz	-53.31	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#99-1RB#0	1000~10000MHz	-50.29	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#99-1RB#0	10000~20000MHz	-57.44	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#99-1RB#0	20000~27000MHz	-52.66	PASS

Test Graphs

	
38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#99-1RB#0-30~1000MHz-PASS	38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#99-1RB#0-1000~10000MHz-PASS
	
38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#99-1RB#0-10000~20000MHz-PASS	38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#99-1RB#0-20000~27000MHz-PASS
	
38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#99-1RB#0-30~1000MHz-PASS	38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#99-1RB#0-1000~10000MHz-PASS
	
38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#99-1RB#0-10000~20000MHz-PASS	38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#99-1RB#0-20000~27000MHz-PASS

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#99-1RB#0-30~1000MHz-PASS

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#99-1RB#0-1000~10000MHz-PASS

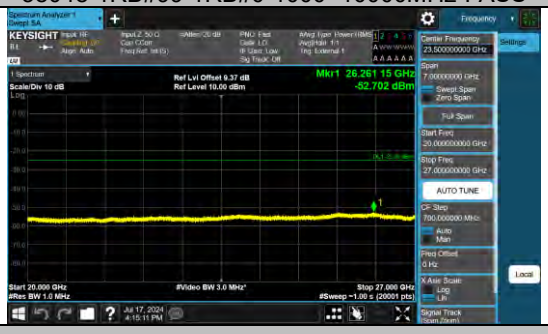
38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#99-1RB#0-10000~20000MHz-PASS

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#99-1RB#0-20000~27000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-1RB#99-1RB#0-30~1000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-1RB#99-1RB#0-1000~10000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-1RB#99-1RB#0-10000~20000MHz-PASS



38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-1RB#99-1RB#0-20000~27000MHz-PASS

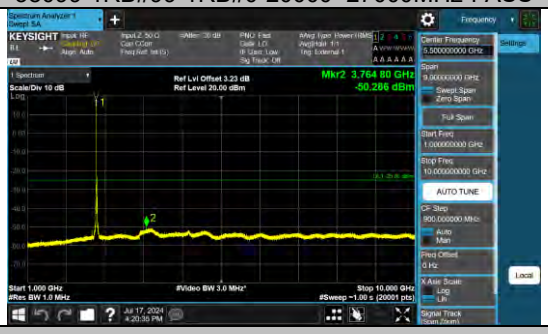
38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-1RB#99-1RB#0-30~1000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-1RB#99-1RB#0-1000~10000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-1RB#99-1RB#0-10000~20000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-1RB#99-1RB#0-20000~27000MHz-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-1RB#99-1RB#0-30~1000MHz-PASS



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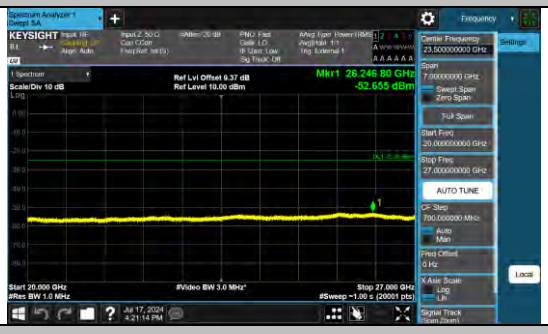
38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-1RB#99-1RB#0-10000~20000MHz-PASS



38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-1RB#99-1RB#0-20000~27000MHz-PASS

--END--