VARIANT FCC TEST REPORT

(PART 27)

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Product:	Tablet PC
Brand Name:	NOKIA
Model Name:	TA-1462
FCC ID:	2AJOTTA-1462
Date of tests:	May. 15, 2022 ~ Oct. 11, 2022

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: Oct. 11, 2022	Luke Lu Date: Oct. 11, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22050002RF06	Original release	May. 31 2022
W7L-P22090011RF06	Base on the original product changing BT/WIFI/GPS antenna and decreasing antenna gain. It doesn't affect wwan function. So this report only verify RSE worse case（LTE BAND 4）, other test data is copied from the original report W7L-P22050002RF06.	Oct. 11, 2022

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(d)(4) §27.50(h)(2)	Equivalent Isotropically Radiated Power (Band 4) (Band 7) (Band 66)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 4) (Band 7) (Band 66)	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 4) (Band 7) (Band 66)	Compliance
§2.1053 §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 4) (Band 7) (Band 66)	Compliance

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 & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±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	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.05,21	Sep.04,22
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.05,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 25, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
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	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 25,23

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	Tablet PC	
BRAND NAME	NOKIA	
MODEL NAME	TA-1462	
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	**WCDMA IV**	BPSK, QPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	**WCDMA IV**	1712.4MHz ~ 1752.6MHz
	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz
	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2565MHz
	LTE Band 7 Channel Bandwidth: 15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band 7 Channel Bandwidth: 20MHz	2510MHz ~ 2560MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz
	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz

MAX. EIRP POWER	WCDMA IV	136.14mW
	LTE Band 4 Channel Bandwidth: 1.4MHz	167.49mW
	LTE Band 4 Channel Bandwidth: 3MHz	165.96mW
	LTE Band 4 Channel Bandwidth: 5MHz	165.58mW
	LTE Band 4 Channel Bandwidth: 10MHz	167.11mW
	LTE Band 4 Channel Bandwidth: 15MHz	167.49mW
	LTE Band 4 Channel Bandwidth: 20MHz	168.66mW
	LTE Band 7 Channel Bandwidth: 5MHz	253.51mW
	LTE Band 7 Channel Bandwidth: 10MHz	254.10mW
	LTE Band 7 Channel Bandwidth: 15MHz	252.93mW
	LTE Band 7 Channel Bandwidth: 20MHz	256.45mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	161.44mW
	LTE Band 66 Channel Bandwidth: 3MHz	161.06mW
	LTE Band 66 Channel Bandwidth: 5MHz	162.18mW
	LTE Band 66 Channel Bandwidth: 10MHz	161.06mW
	LTE Band 66 Channel Bandwidth: 15MHz	163.68mW
	LTE Band 66 Channel Bandwidth: 20MHz	164.06mW
EMISSION DESIGNATOR	WCDMA IV	4M17F9W
	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M09W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M69W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
	LTE Band 4	QPSK: 8M99G7D

EMISSION DESIGNATOR	**Channel Bandwidth: 10MHz**	16QAM: 8M99W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
	LTE Band 7 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
	LTE Band 7 Channel Bandwidth: 10MHz	QPSK:8M99G7D
		16QAM: 8M99W7D
	LTE Band 7 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 7 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK: 2M98G7D
		16QAM: 1M09W7D
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
	LTE Band 66 Channel Bandwidth: 10MHz	QPSK: 8M99G7D
		16QAM: 8M98W7D
	LTE Band 66 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 66 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
ANTENNA TYPE	Fixed Internal Antenna with -1dBi gain for WCDMA IV Fixed Internal Antenna with -1dBi gain for LTE4 Fixed Internal Antenna with 1dBi gain for LTE7 Fixed Internal Antenna with -1dBi gain for LTE66	
HW VERSION	V0.2	
SW VERSION	00WW_0_190	

I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1 meter Earphone: non-shielded cable, with w/o ferrite core, 1.5 meter
EXTREME TEMPERATURE	-10-45 ℃
EXTREME VOLTAGE	3.6V - 4. 35V

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

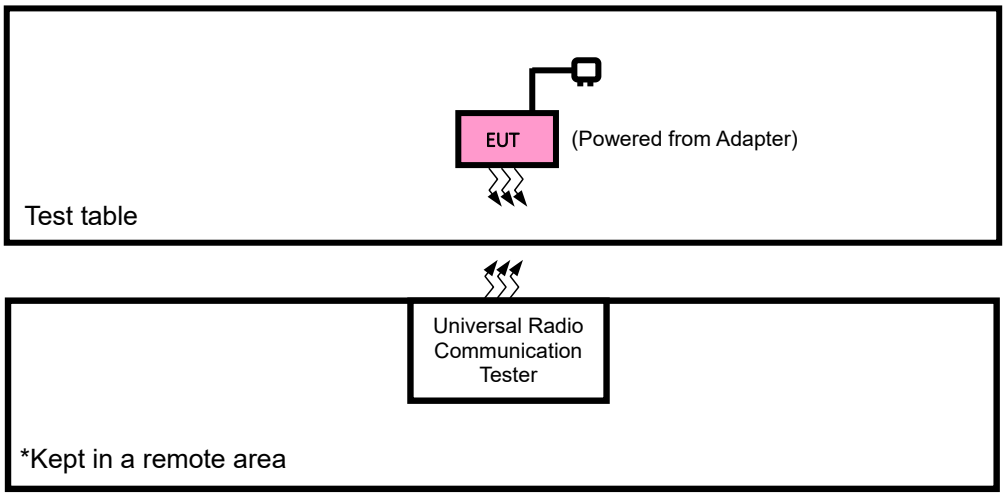
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	NOKIA	HUNAN GAOYUAN BATTERY CO.,LTD	WWT50	Capacity：3.8 Vdc, 5100mAh
AC Adapter	NOKIA	ShenZhenBaiJunDaElectronic CO., LTD.	AD-010U	I/P: 110-240Vac, 0.35A, O/P: 5.0Vdc, 2.0A
Earphone	NOKIA	HUIZHOU JUWEI ELECTRONICS CO.,LTD	JWEP1237-W27H	Signal Line, 1.5meter
USB Cable	Saibao	Saibao(Jiangxi) Communication Industrial Co.,Ltd	SWT-A116A	Signal Line, 1.0meter
LCD Panel 1	HUAXIAN	China display Optoelectronics Technology (Huizhou) Company Limited	8019-3	LCD, 8",800 * 1280, Add-on,α- Si, Non-airgap, A3
LCD Panel 2	COE	CHONG QIAN COE DISPLAY TECHNOLOGY CO., LTD.	T080ET011-HD1-QT	LCD, 8",800 * 1280,
Front Camera 1	C&T	SHENZHEN C&T TECHNOLOGY CO.,LTD	BC12715 V0	2M
Rear Camera 1	C&T	SHENZHEN C&T TECHNOLOGY CO.,LTD	BB18716 V0	8M

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	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

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 WCDMA or LTE link**
B	EUT + Battery with **WCDMA or LTE link**

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
B	FREQUENCY STABILITY	1312 to 1513	1312, 1413, 1513	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 15131312, 1413, 1513	1312, 1513	WCDMA
A	PEAK TO AVERAGE RATIO	1312 to 1513	1312, 1413, 1513	WCDMA
A	CONDCUDETED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offse 6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK,16QAM	1 RB / 0 RB Offse 15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK,16QAM	1 RB / 0 RB Offse 25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK,16QAM	1 RB / 0 RB Offse 50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK,16QAM	1 RB / 0 RB Offse 75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK,16QAM	1 RB / 0 RB Offse 100 RB / 0 RB Offset
A	BAND EDGE	19957 to 20393	19957	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			20393	1.4MHz	QPSK, 16QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		19965 to 20385	19965	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			20385	3MHz	QPSK, 16QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		19975 to 20375	19975	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			20375	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20000 to 20350	20000	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			20350	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset

						50 RB / 0 RB Offset
A	BAND EDGE	20025 to 20325	20025	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			20325	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		20050 to 20300	20050	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
			20300	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset
						100 RB / 0 RB Offset
A	CONDCUDETED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	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.

LTE BAND 7 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	BAND EDGE	20775 to 21425	20775	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			21425	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20800 to 21400	20800	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			21400	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		20825 to 21375	20825	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			21375	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		20850 to 21350	20850	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
			21350	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset
						100 RB / 0 RB Offset
A	CONDCUDE TED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB / 0 RB Offset
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	21100	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.

LTE BAND 66 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	6 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			132322	1.4MHz	QPSK,16QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			132657	3MHz	QPSK,16QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		131987 to 132657	131987	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			132657	5MHz	QPSK,16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		131997 to 132647	131997	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			132647	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		132047 to 132597	132047	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			132597	15MHz	QPSK,16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		132072 to 132572	132072	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
			132572	20MHz	QPSK,16QAM	1 RB / 99 RB Offset
						100 RB / 0 RB Offset

A	CONDCUDETED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132322	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132322	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 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.8V By Battery	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	James Fu
CONDCUDETED EMISSION	23deg. C, 70%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V 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.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

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);

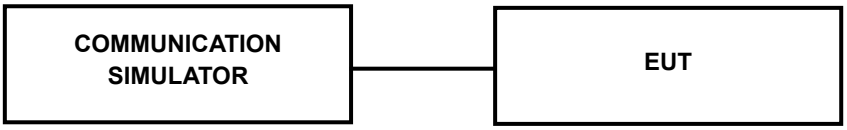
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA IV			Max. Tune-up Power
Channel	1312	1413	1513	
Frequency (MHz)	1712.4	1732.6	1752.6	
RMC 12.2K	**22.34**	22.24	22.27	24.0
HSDPA Subtest-1	21.25	21.33	21.29	23.0
HSDPA Subtest-2	21.39	21.36	21.34	23.0
HSDPA Subtest-3	20.53	20.52	20.44	22.5
HSDPA Subtest-4	20.49	20.58	20.60	22.5
DC-HSDPA Subtest-1	21.42	21.57	21.53	23.0
DC-HSDPA Subtest-2	21.51	21.46	21.44	23.0
DC-HSDPA Subtest-3	20.53	20.55	20.46	22.5
DC-HSDPA Subtest-4	20.71	20.69	20.44	22.5
HSUPA Subtest-1	21.44	21.39	21.52	23.0
HSUPA Subtest-2	19.46	19.41	19.66	21.0
HSUPA Subtest-3	20.58	20.67	20.45	22.0
HSUPA Subtest-4	19.62	19.58	19.47	21.0
HSUPA Subtest-5	21.50	21.59	21.48	23.0
HSPA+ Subtest-1	19.35	19.45	19.21	20.5

LTE Band 4

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957 Frequency 1710.7 MHz	Mid CH 20175 Frequency 1732.5 MHz	High CH 20393 Frequency 1754.3 MHz	MPR
4/ 1.4	QPSK	1	0	23.13	23.23	22.98	0
		1	2	23.13	23.16	22.96	0
		1	5	23.11	23.12	23.04	0
		3	0	23.10	23.10	22.92	0
		3	1	23.04	23.09	22.95	0
		3	3	23.24	23.19	23.05	0
		6	0	22.57	22.60	22.36	1
	16QAM	1	0	22.75	22.75	22.65	1
		1	2	22.70	22.76	22.62	1
		1	5	22.68	22.57	22.60	1
		3	0	22.23	22.34	22.14	1
		3	1	22.22	22.27	22.13	1
		3	3	22.35	22.30	22.10	1
		6	0	21.69	21.83	21.60	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965 Frequency 1711.5 MHz	Mid CH 20175 Frequency 1732.5 MHz	High CH 20385 Frequency 1753.5 MHz	MPR
4/ 3	QPSK	1	0	23.15	23.20	22.98	0
		1	7	23.09	23.17	22.96	0
		1	14	23.05	23.17	23.03	0
		8	0	22.58	22.67	22.42	1
		8	3	22.51	22.56	22.45	1
		8	7	22.71	22.76	22.59	1
		15	0	22.53	22.61	22.34	1
	16QAM	1	0	22.78	22.74	22.69	1
		1	7	22.64	22.80	22.59	1
		1	14	22.70	22.59	22.59	1
		8	0	21.75	21.82	21.64	2
		8	3	21.74	21.70	21.66	2
		8	7	21.88	21.83	21.53	2
		15	0	21.70	21.77	21.59	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975 Frequency 1712.5 MHz	Mid CH 20175 Frequency 1732.5 MHz	High CH 20375 Frequency 1752.5 MHz	MPR
4/ 5	QPSK	1	0	23.16	23.19	23.02	0
		1	12	23.12	23.17	22.93	0
		1	24	23.05	23.18	23.04	0
		12	0	22.62	22.63	22.43	1
		12	6	22.49	22.59	22.48	1
		12	13	22.72	22.72	22.59	1
		25	0	22.50	22.64	22.33	1
	16QAM	1	0	22.78	22.74	22.68	1
		1	12	22.64	22.78	22.56	1
		1	24	22.67	22.63	22.55	1
		12	0	21.70	21.84	21.67	2
		12	6	21.74	21.71	21.63	2
		12	13	21.82	21.80	21.59	2
		25	0	21.67	21.83	21.59	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000 Frequency 1715 MHz	Mid CH 20175 Frequency 1732.5 MHz	High CH 20350 Frequency 1750 MHz	MPR
4/ 10	QPSK	1	0	23.13	23.23	22.98	0
		1	24	23.13	23.16	22.96	0
		1	49	23.11	23.12	23.04	0
		25	0	22.60	22.60	22.42	1
		25	12	22.54	22.59	22.45	1
		25	25	22.72	22.69	22.55	1
		50	0	22.55	22.60	22.36	1
	16QAM	1	0	22.78	22.75	22.65	1
		1	24	22.66	22.76	22.62	1
		1	49	22.71	22.57	22.60	1
		25	0	21.69	21.85	21.64	2
		25	12	21.78	21.70	21.67	2
		25	25	21.81	21.81	21.56	2
		50	0	21.72	21.79	21.63	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
4/ 15	QPSK	1	0	23.17	23.24	22.97	0
		1	37	23.14	23.21	22.94	0
		1	74	23.07	23.14	23.08	0
		36	0	22.65	22.66	22.39	1
		36	19	22.47	22.54	22.51	1
		36	39	22.78	22.73	22.58	1
		75	0	22.55	22.65	22.32	1
	16QAM	1	0	22.76	22.77	22.68	1
		1	37	22.66	22.82	22.61	1
		1	74	22.71	22.57	22.60	1
		36	0	21.69	21.85	21.64	2
		36	19	21.77	21.72	21.66	2
		36	39	21.88	21.80	21.53	2
		75	0	21.69	21.82	21.61	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
4/ 20	QPSK	1	0	23.21	**23.27**	23.03	0
		1	50	23.16	23.22	22.98	0
		1	99	23.13	23.19	23.09	0
		50	0	22.66	22.68	22.44	1
		50	25	22.55	22.61	22.53	1
		50	50	22.79	22.77	22.61	1
		100	0	22.58	22.66	22.38	1
	16QAM	1	0	22.80	22.82	22.70	1
		1	50	22.72	22.84	22.64	1
		1	99	22.73	22.65	22.61	1
		50	0	21.77	21.89	21.69	2
		50	25	21.80	21.78	21.68	2
		50	50	21.89	21.85	21.61	2
		100	0	21.75	21.85	21.65	2

LTE Band 7

Band/BW	Modulation	RB Size	RB Offset	Low CH 20775 Frequency 2502.5 MHz	Mid CH 21100 Frequency 2535 MHz	High CH 21425 Frequency 2567.5 MHz	MPR
7/ 5	QPSK	1	0	22.92	22.91	22.69	0
		1	12	22.79	22.86	22.68	0
		1	24	23.02	23.04	22.94	0
		12	0	22.26	22.26	22.09	1
		12	6	22.43	22.44	22.37	1
		12	13	22.36	22.37	22.25	1
		25	0	22.37	22.36	22.25	1
	16QAM	1	0	22.65	22.62	22.51	1
		1	12	22.59	22.68	22.47	1
		1	24	22.78	22.78	22.69	1
		12	0	21.55	21.50	21.38	2
		12	6	21.49	21.50	21.43	2
		12	13	21.68	21.74	21.48	2
		25	0	21.48	21.53	21.38	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20800 Frequency 2505 MHz	Mid CH 21100 Frequency 2535 MHz	High CH 21400 Frequency 2565 MHz	MPR
7/ 10	QPSK	1	0	22.90	22.88	22.72	0
		1	24	22.85	22.79	22.72	0
		1	49	22.98	23.05	22.90	0
		25	0	22.30	22.20	22.13	1
		25	12	22.42	22.45	22.34	1
		25	25	22.41	22.33	22.28	1
		50	0	22.37	22.37	22.22	1
	16QAM	1	0	22.67	22.60	22.57	1
		1	24	22.64	22.68	22.45	1
		1	49	22.80	22.75	22.65	1
		25	0	21.60	21.51	21.41	2
		25	12	21.54	21.47	21.44	2
		25	25	21.68	21.72	21.49	2
		50	0	21.54	21.46	21.39	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20825 Frequency 2507.5 MHz	Mid CH 21100 Frequency 2535 MHz	High CH 21375 Frequency 2562.5 MHz	MPR
7/ 15	QPSK	1	0	22.95	22.94	22.66	0
		1	37	22.80	22.79	22.67	0
		1	74	23.03	23.03	22.93	0
		36	0	22.30	22.21	22.09	1
		36	19	22.44	22.41	22.37	1
		36	39	22.42	22.31	22.29	1
		75	0	22.31	22.40	22.22	1
	16QAM	1	0	22.71	22.60	22.58	1
		1	37	22.57	22.66	22.48	1
		1	74	22.82	22.77	22.69	1
		36	0	21.59	21.50	21.38	2
		36	19	21.50	21.47	21.43	2
		36	39	21.75	21.74	21.46	2
		75	0	21.51	21.46	21.34	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20850 Frequency 2510 MHz	Mid CH 21100 Frequency 2535 MHz	High CH 21350 Frequency 2560 MHz	MPR
7/ 20	QPSK	1	0	22.96	22.96	22.74	0
		1	50	22.87	22.87	22.73	0
		1	99	23.06	**23.09**	22.95	0
		50	0	22.32	22.28	22.14	1
		50	25	22.50	22.51	22.39	1
		50	50	22.44	22.39	22.30	1
		100	0	22.39	22.44	22.27	1
	16QAM	1	0	22.73	22.68	22.59	1
		1	50	22.65	22.70	22.53	1
		1	99	22.85	22.83	22.71	1
		50	0	21.61	21.57	21.43	2
		50	25	21.56	21.55	21.45	2
		50	50	21.76	21.76	21.54	2
		100	0	21.56	21.54	21.40	2

LTE Band 66

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979 Frequency 1710.7MHz	Mid CH 132322 Frequency 1745MHz	High CH 132665 Frequency 1779.3MHz	MPR
66/ 1.4	QPSK	1	0	22.93	23.03	22.97	0
		1	2	22.83	22.80	23.00	0
		1	5	22.89	22.75	22.90	0
		3	0	22.84	22.82	22.98	0
		3	1	22.93	23.04	22.93	0
		3	3	22.80	22.92	22.98	0
		6	0	22.49	22.35	22.37	1
	16QAM	1	0	22.95	23.08	22.94	1
		1	2	23.01	22.89	22.85	1
		1	5	22.98	22.71	22.86	1
		3	0	22.08	22.13	22.17	1
		3	1	22.12	22.04	22.19	1
		3	3	22.15	21.93	22.10	1
		6	0	21.61	21.53	21.75	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987 Frequency 1711.5MHz	Mid CH 132322 Frequency 1745MHz	High CH 132657 Frequency 1778.5MHz	MPR
66/ 3	QPSK	1	0	22.95	23.02	23.01	0
		1	7	22.85	22.84	22.97	0
		1	14	22.83	22.75	22.93	0
		8	0	22.39	22.36	22.47	1
		8	3	22.41	22.55	22.45	1
		8	7	22.31	22.45	22.52	1
		15	0	22.44	22.39	22.36	1
	16QAM	1	0	22.98	23.07	22.98	1
		1	7	22.95	22.93	22.82	1
		1	14	23.00	22.73	22.85	1
		8	0	21.61	21.63	21.64	2
		8	3	21.64	21.52	21.70	2
		8	7	21.67	21.41	21.56	2
		15	0	21.61	21.47	21.78	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997 Frequency 1712.5MHz	Mid CH 132322 Frequency 1745MHz	High CH 132647 Frequency 1777.5MHz	MPR
66/ 5	QPSK	1	0	22.96	23.00	22.97	0
		1	12	22.84	22.78	23.00	0
		1	24	22.86	22.74	22.94	0
		12	0	22.36	22.35	22.45	1
		12	6	22.36	22.55	22.46	1
		12	13	22.31	22.45	22.53	1
		25	0	22.44	22.39	22.34	1
	16QAM	1	0	22.93	23.10	22.97	1
		1	12	22.95	22.95	22.82	1
		1	24	23.01	22.71	22.85	1
		12	0	21.54	21.62	21.64	2
		12	6	21.64	21.53	21.68	2
		12	13	21.62	21.43	21.59	2
		25	0	21.61	21.48	21.75	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022 Frequency 1715MHz	Mid CH 132322 Frequency 1745MHz	High CH 132622 Frequency 1775MHz	MPR
66/ 10	QPSK	1	0	22.93	23.03	22.97	0
		1	24	22.84	22.78	23.01	0
		1	49	22.83	22.78	22.90	0
		25	0	22.37	22.34	22.48	1
		25	12	22.42	22.49	22.46	1
		25	25	22.29	22.42	22.52	1
		50	0	22.49	22.39	22.31	1
	16QAM	1	0	22.93	23.07	22.93	1
		1	24	23.00	22.91	22.85	1
		1	49	23.01	22.72	22.82	1
		25	0	21.56	21.60	21.70	2
		25	12	21.68	21.47	21.73	2
		25	25	21.61	21.44	21.56	2
		50	0	21.65	21.47	21.79	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072 Frequency 1720MHz	Mid CH 132322 Frequency 1745MHz	High CH 132572 Frequency 1770MHz	MPR
66/ 15	QPSK	1	0	22.95	23.05	22.96	0
		1	37	22.79	22.81	23.00	0
		1	74	22.85	22.75	22.90	0
		36	0	22.33	22.35	22.48	1
		36	19	22.36	22.54	22.45	1
		36	39	22.27	22.49	22.52	1
		75	0	22.46	22.36	22.31	1
	16QAM	1	0	22.92	23.14	22.97	1
		1	37	22.98	22.92	22.83	1
		1	74	23.01	22.71	22.86	1
		36	0	21.54	21.64	21.67	2
		36	19	21.67	21.49	21.72	2
		36	39	21.67	21.41	21.56	2
		75	0	21.61	21.47	21.78	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072 Frequency 1720MHz	Mid CH 132322 Frequency 1745MHz	High CH 132572 Frequency 1770MHz	MPR
66/ 20	QPSK	1	0	23.01	**23.07**	23.02	0
		1	50	22.86	22.86	23.02	0
		1	99	22.91	22.82	22.95	0
		50	0	22.40	22.40	22.50	1
		50	25	22.44	22.56	22.51	1
		50	50	22.35	22.50	22.54	1
		100	0	22.50	22.41	22.39	1
	16QAM	1	0	23.00	23.15	22.99	1
		1	50	23.03	22.97	22.87	1
		1	99	23.03	22.79	22.87	1
		50	0	21.62	21.68	21.72	2
		50	25	21.70	21.55	21.74	2
		50	50	21.69	21.48	21.61	2
		100	0	21.67	21.55	21.80	2

EIRP

WCDMA IV

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	22.34	-1	21.34	136.14	1
1413	1732.6	22.24	-1	21.24	133.05	1
1513	1752.6	22.27	-1	21.27	133.97	1

LTE BAND 4
CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.24	-1	22.24	167.49	1
20175	1732.5	23.23	-1	22.23	167.11	1
20393	1754.3	23.05	-1	22.05	160.32	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.75	-1	21.75	149.62	1
20175	1732.5	22.76	-1	21.76	149.97	1
20393	1754.3	22.65	-1	21.65	146.22	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.15	-1	22.15	164.06	1
20175	1732.5	23.2	-1	22.2	165.96	1
20385	1753.5	23.03	-1	22.03	159.59	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.78	-1	21.78	150.66	1
20175	1732.5	22.8	-1	21.8	151.36	1
20385	1753.5	21.53	-1	20.53	112.98	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.16	-1	22.16	164.44	1
20175	1732.5	23.19	-1	22.19	165.58	1
20375	1752.5	23.04	-1	22.04	159.96	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.78	-1	21.78	150.66	1
20175	1732.5	22.78	-1	21.78	150.66	1
20375	1752.5	22.68	-1	21.68	147.23	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.13	-1	22.13	163.31	1
20175	1732.5	23.23	-1	22.23	167.11	1
20350	1750	23.04	-1	22.04	159.96	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.78	-1	21.78	150.66	1
20175	1732.5	22.76	-1	21.76	149.97	1
20350	1750	22.65	-1	21.65	146.22	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.17	-1	22.17	164.82	1
20175	1732.5	23.24	-1	22.24	167.49	1
20325	1747.5	23.08	-1	22.08	161.44	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.76	-1	21.76	149.97	1
20175	1732.5	22.82	-1	21.82	152.05	1
20325	1747.5	22.68	-1	21.68	147.23	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.21	-1	22.21	166.34	1
20175	1732.5	23.27	-1	22.27	168.66	1
20300	1745	23.09	-1	22.09	161.81	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.8	-1	21.8	151.36	1
20175	1732.5	22.84	-1	21.84	152.76	1
20300	1745	22.7	-1	21.7	147.91	1

LTE BAND 7
CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	23.02	1	24.02	252.35	2
21100	2535.0	23.04	1	24.04	253.51	2
21425	2567.5	22.94	1	23.94	247.74	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.78	1	23.78	238.78	2
21100	2535.0	22.78	1	23.78	238.78	2
21425	2567.5	22.69	1	23.69	233.88	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.98	1	23.98	250.03	2
21100	2535.0	23.05	1	24.05	254.10	2
21400	2565.0	22.9	1	23.9	245.47	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.8	1	23.8	239.88	2
21100	2535.0	22.75	1	23.75	237.14	2
21400	2565.0	22.65	1	23.65	231.74	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	23.03	1	24.03	252.93	2
21100	2535.0	23.03	1	24.03	252.93	2
21375	2562.5	22.93	1	23.93	247.17	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.82	1	23.82	240.99	2
21100	2535.0	22.77	1	23.77	238.23	2
21375	2562.5	22.69	1	23.69	233.88	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	23.06	1	24.06	254.68	2
21100	2535.0	23.09	1	24.09	256.45	2
21350	2560.0	22.95	1	23.95	248.31	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	22.85	1	23.85	242.66	2
21100	2535.0	22.83	1	23.83	241.55	2
21350	2560.0	22.71	1	23.71	234.96	2

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.93	-1	21.93	155.96	1
132322	1745	23.04	-1	22.04	159.96	1
132665	1779.3	23	-1	22	158.49	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.01	-1	22.01	158.85	1
132322	1745	23.08	-1	22.08	161.44	1
132665	1779.3	22.94	-1	21.94	156.31	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.95	-1	21.95	156.68	1
132322	1745	23.02	-1	22.02	159.22	1
132657	1778.5	23.01	-1	22.01	158.85	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	23	-1	22	158.49	1
132322	1745	23.07	-1	22.07	161.06	1
132657	1778.5	22.98	-1	21.98	157.76	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	22.96	-1	21.96	157.04	1
132322	1745	23	-1	22	158.49	1
132647	1777.5	23	-1	22	158.49	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	23.01	-1	22.01	158.85	1
132322	1745	23.1	-1	22.1	162.18	1
132647	1777.5	22.97	-1	21.97	157.4	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.93	-1	21.93	155.96	1
132322	1745	23.03	-1	22.03	159.59	1
132622	1775	23.01	-1	22.01	158.85	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	23.01	-1	22.01	158.85	1
132322	1745	23.07	-1	22.07	161.06	1
132622	1775	22.93	-1	21.93	155.96	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22.95	-1	21.95	156.68	1
132322	1745	23.05	-1	22.05	160.32	1
132597	1772.5	23	-1	22	158.49	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1715	23.01	-1	22.01	158.85	1
132322	1745	23.14	-1	22.14	163.68	1
132622	1775	22.97	-1	21.97	157.4	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.01	-1	22.01	158.85	1
132322	1745	23.07	-1	22.07	161.06	1
132572	1770	23.02	-1	22.02	159.22	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.03	-1	22.03	159.59	1
132322	1745	23.15	-1	22.15	164.06	1
132572	1770	22.99	-1	21.99	158.12	1

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

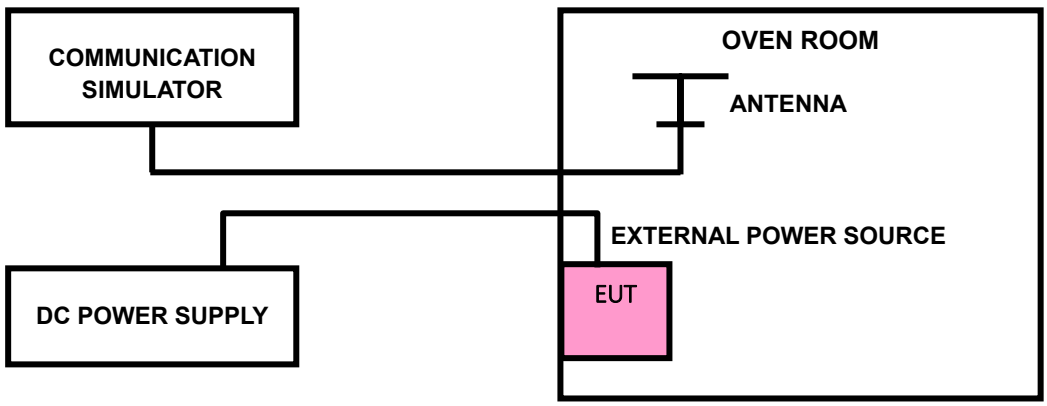
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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

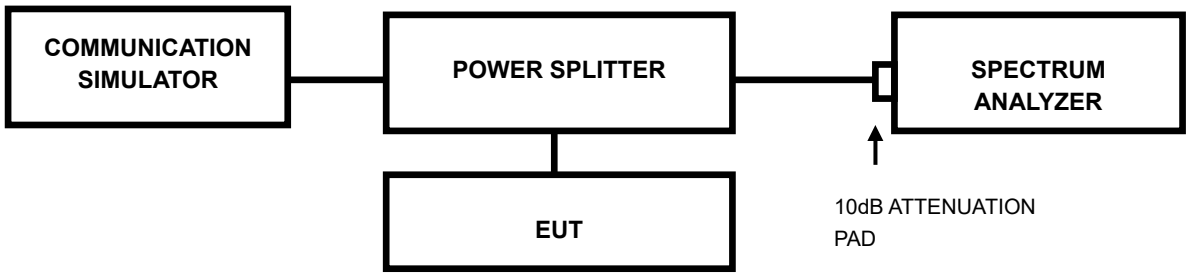
Please Refer to Appendix Of this test report.

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

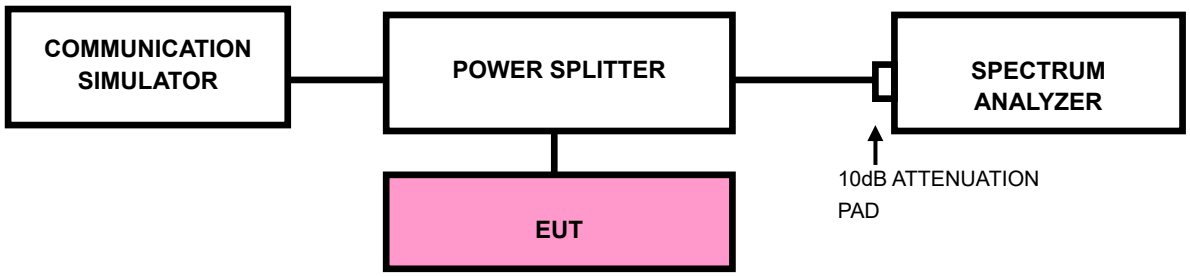
According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.In addition, the power of any unwanted emission in an 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,P(dBW),by at least 65 +10log10p(P),dB,for mobile and portable equipment.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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. All measurements were done at low and high operational frequency range.

b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.
RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).

c. The center frequency of spectrum is the band edge frequency and span is 10MHz.
RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).

d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.
RBW of the spectrum is ≥1%*EBW kHz and VBW of the spectrum is 3*RBW kHz.
(LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).

e. 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 Band7

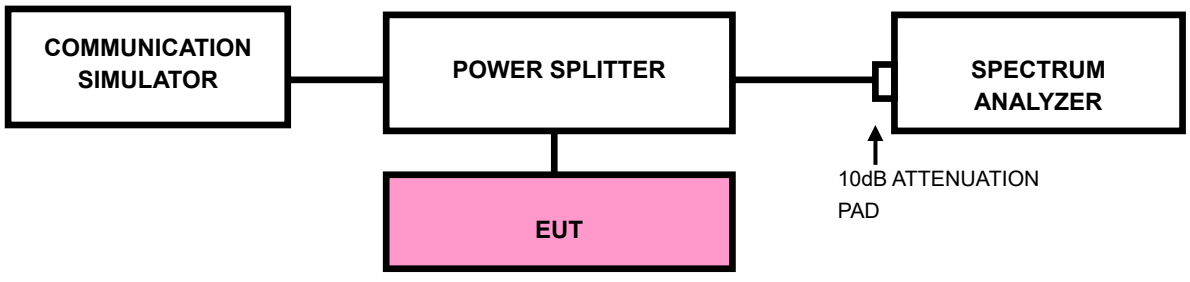
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25dBm.

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 Band7

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.

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3.6.2 TEST PROCEDURES

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G.
c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

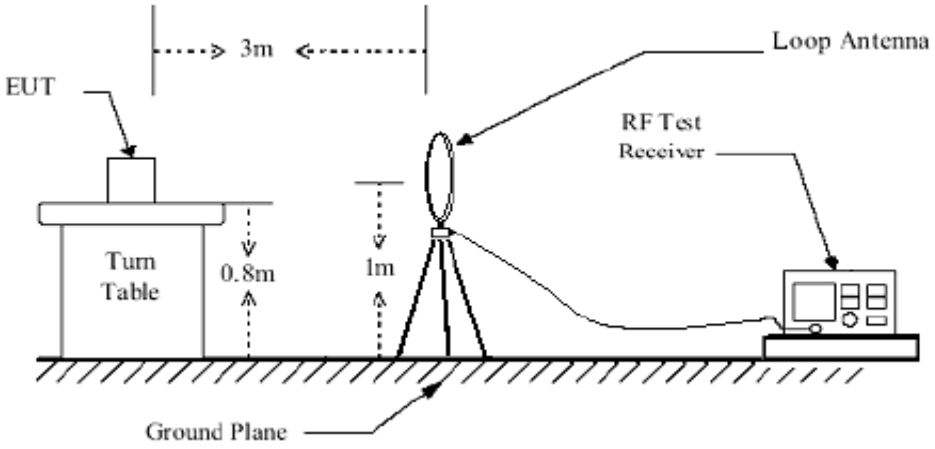
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

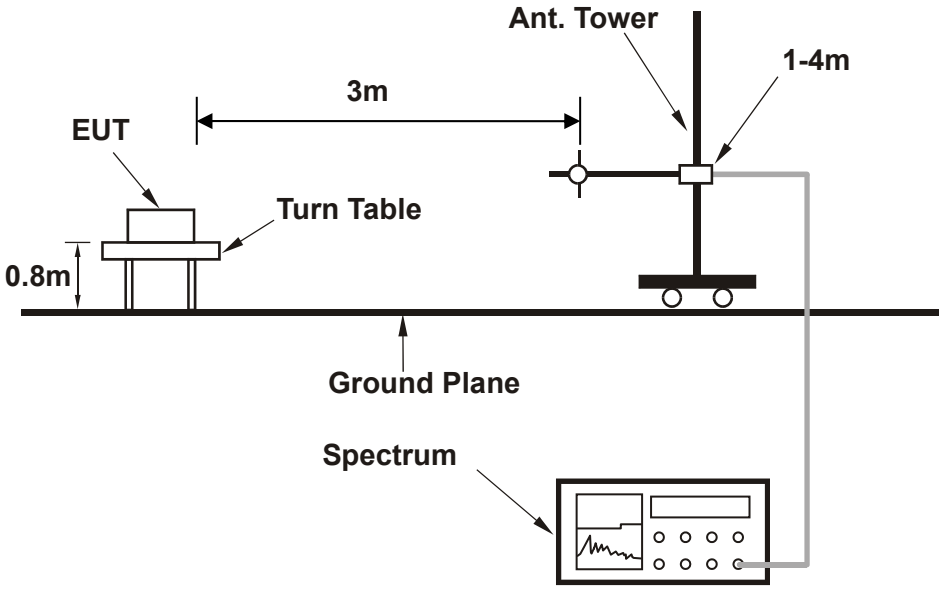
No deviation

3.6.4 TEST SETUP

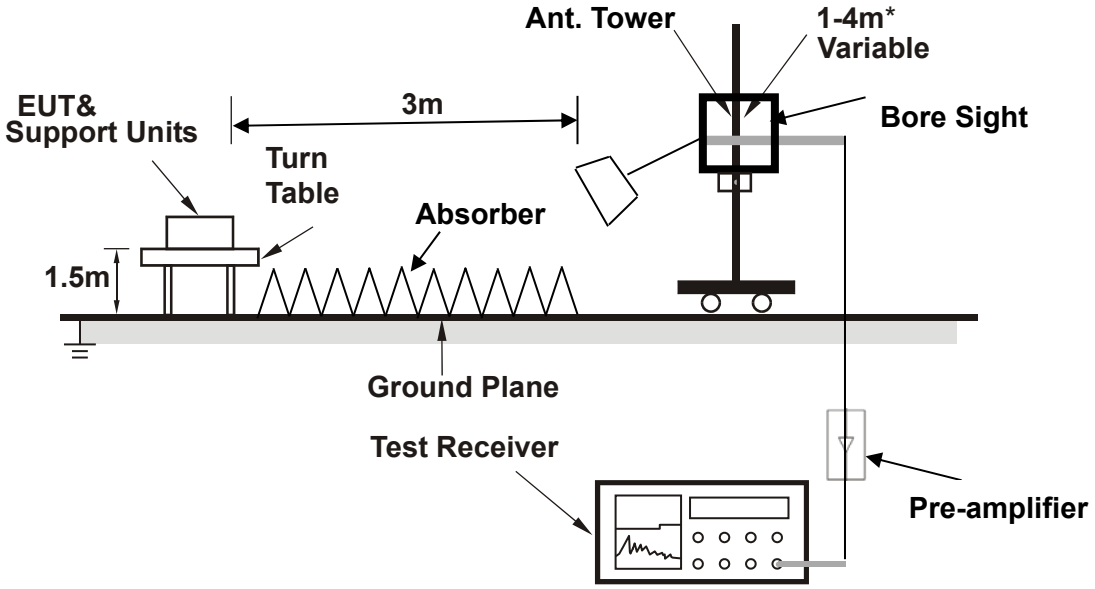
< Frequency Range below 30MHz >



< 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.

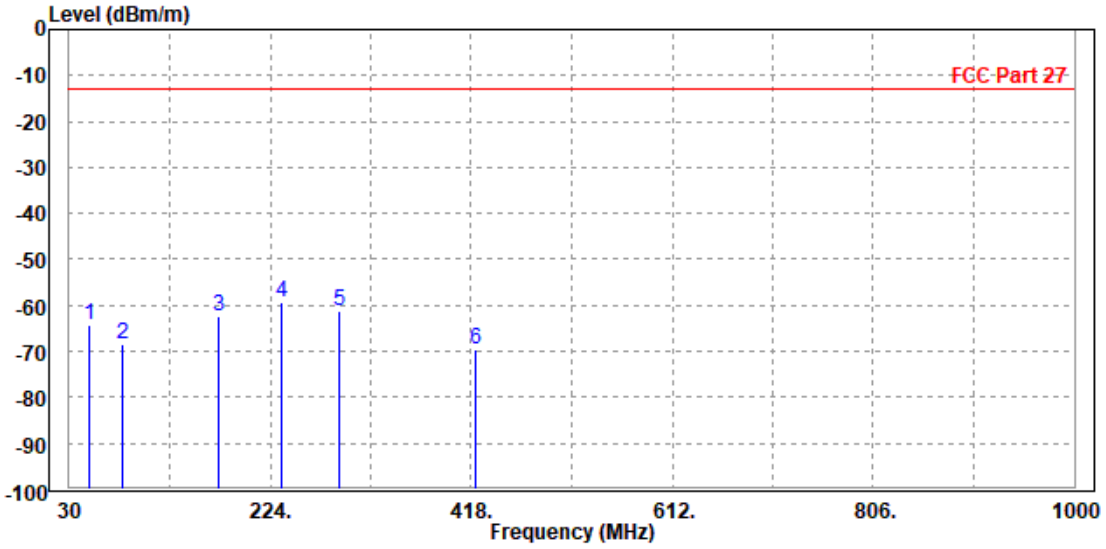
BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

LTE Band 4
CHANNEL BANDWIDTH: 10MHz / QPSK

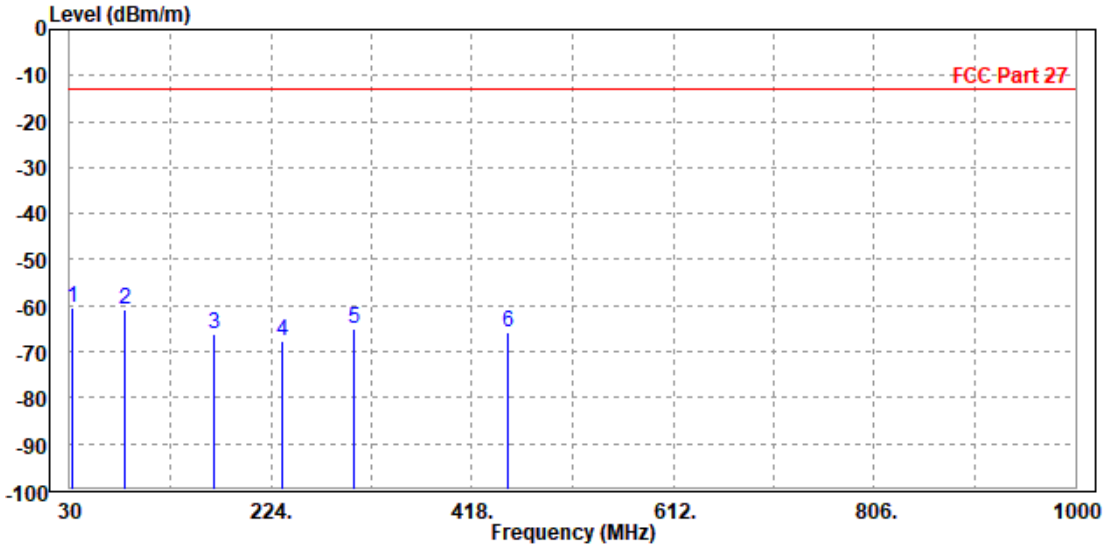
MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		49.400	-64.08	-47.17	-13.00	-51.08	-16.91	Peak	Horizontal
2		81.410	-68.62	-47.14	-13.00	-55.62	-21.48	Peak	Horizontal
3		174.530	-62.42	-45.27	-13.00	-49.42	-17.15	Peak	Horizontal
4	PP	235.640	-59.45	-46.28	-13.00	-46.45	-13.17	Peak	Horizontal
5		290.930	-61.25	-48.97	-13.00	-48.25	-12.28	Peak	Horizontal
6		422.850	-69.48	-59.86	-13.00	-56.48	-9.62	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	32.910	-60.63	-41.68	-13.00	-47.63	-18.95	Peak	Vertical
2		82.380	-60.75	-42.41	-13.00	-47.75	-18.34	Peak	Vertical
3		169.680	-66.15	-48.52	-13.00	-53.15	-17.63	Peak	Vertical
4		234.670	-67.74	-52.79	-13.00	-54.74	-14.95	Peak	Vertical
5		303.540	-65.11	-54.36	-13.00	-52.11	-10.75	Peak	Vertical
6		451.950	-65.81	-57.29	-13.00	-52.81	-8.52	Peak	Vertical



ABOVE 1GHz

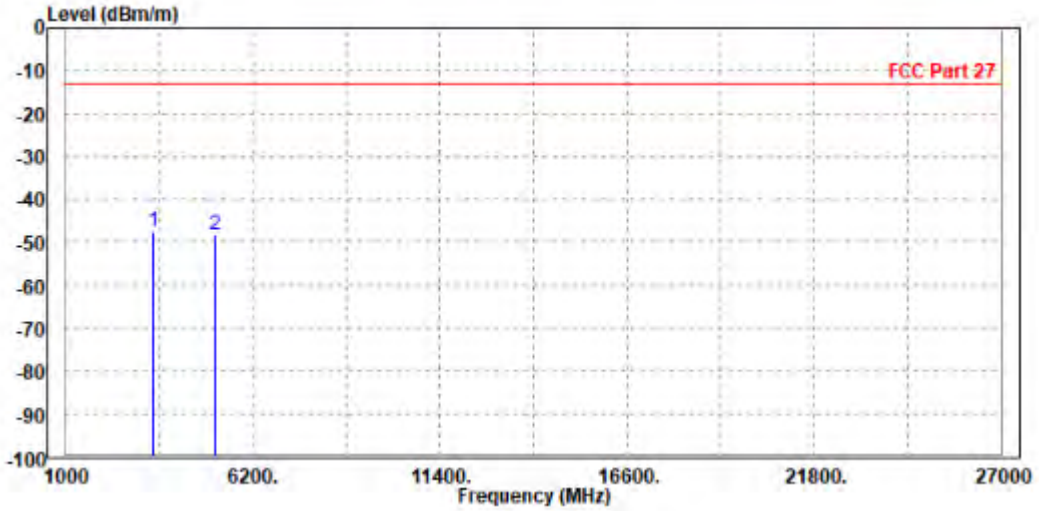
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

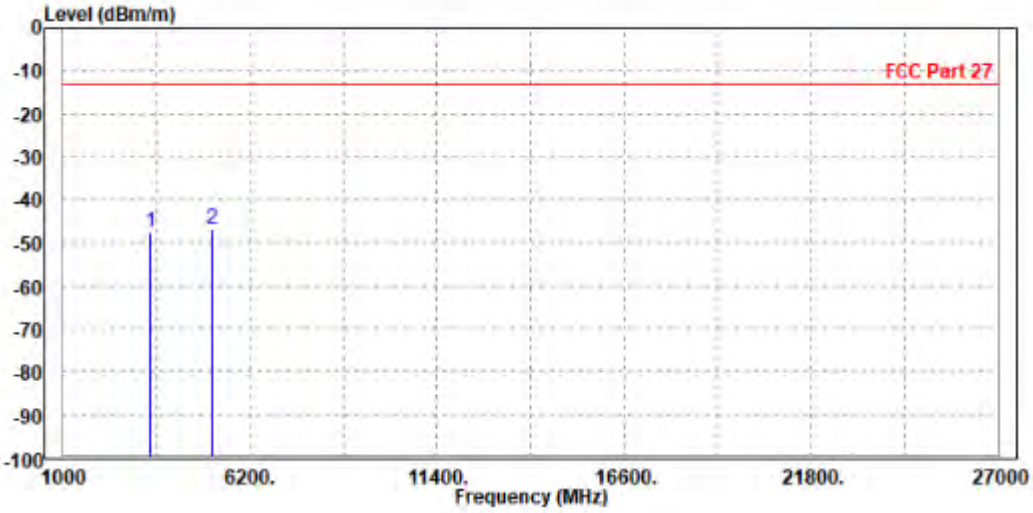
MODE	TX channel 1312	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3424.800	-47.62	-56.21	-13.00	-34.62	8.59	Peak	Horizontal
2	5137.200	-48.26	-57.20	-13.00	-35.26	8.94	Peak	Horizontal



MODE	TX channel 1312	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			

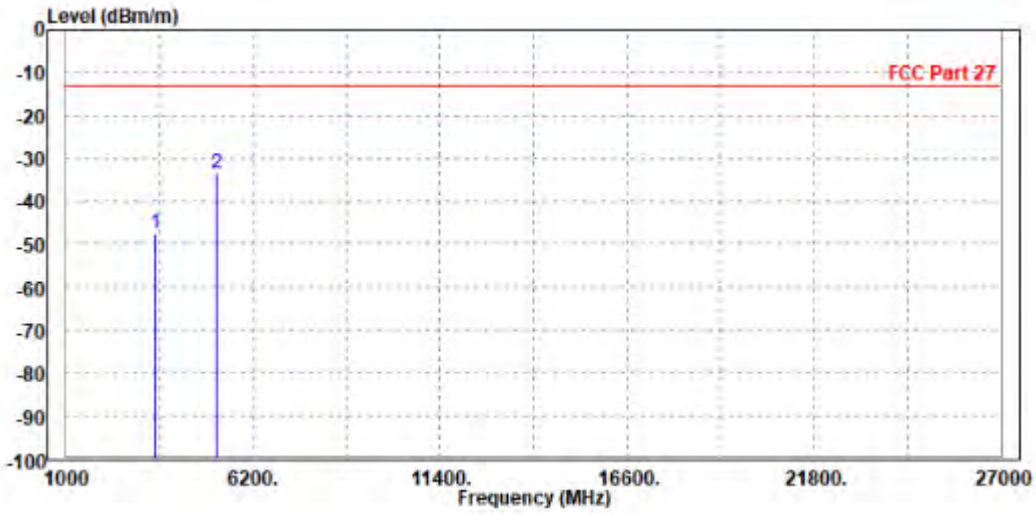
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3418.000	-47.61	-56.72	-13.00	-34.61	9.11	Peak	Vertical
2 PP	5137.200	-46.73	-56.58	-13.00	-33.73	9.85	Peak	Vertical



CH 1413

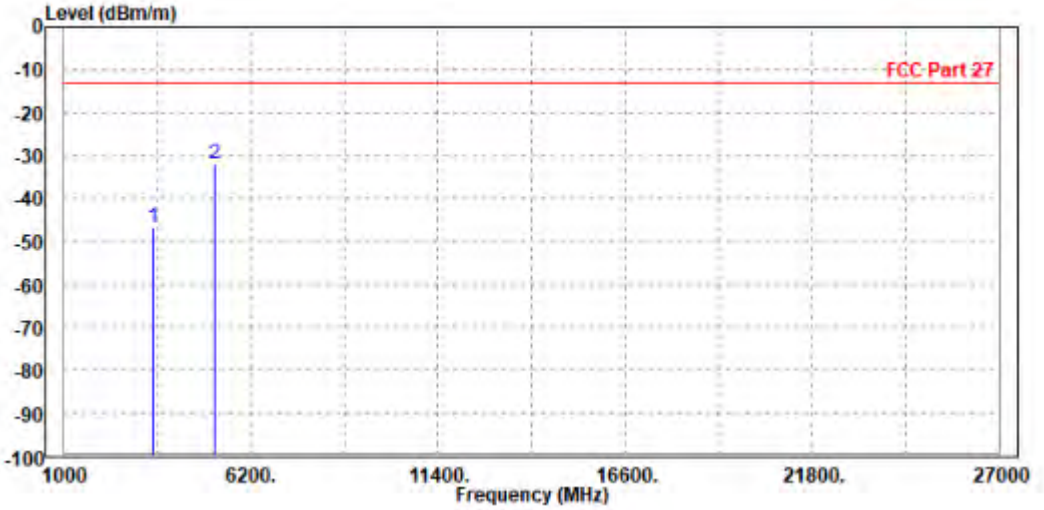
MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.57	-56.15	-13.00	-34.57	8.58	Peak	Horizontal
2 PP	5197.800	-33.35	-42.47	-13.00	-20.35	9.12	Peak	Horizontal



MODE	TX channel 1413	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			

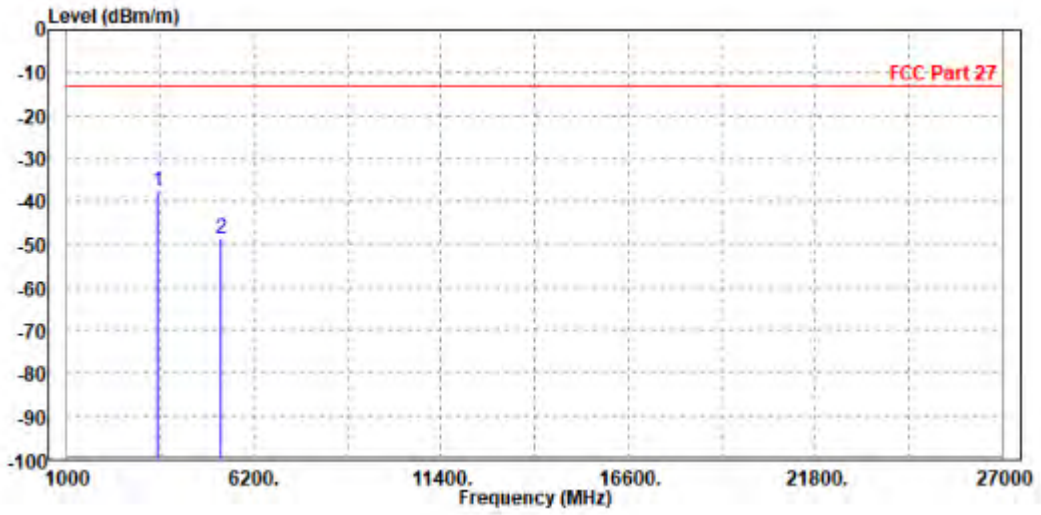
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-46.62	-55.78	-13.00	-33.62	9.16	Peak	Vertical
2 PP	5197.800	-32.06	-41.88	-13.00	-19.06	9.82	Peak	Vertical



CH 1513

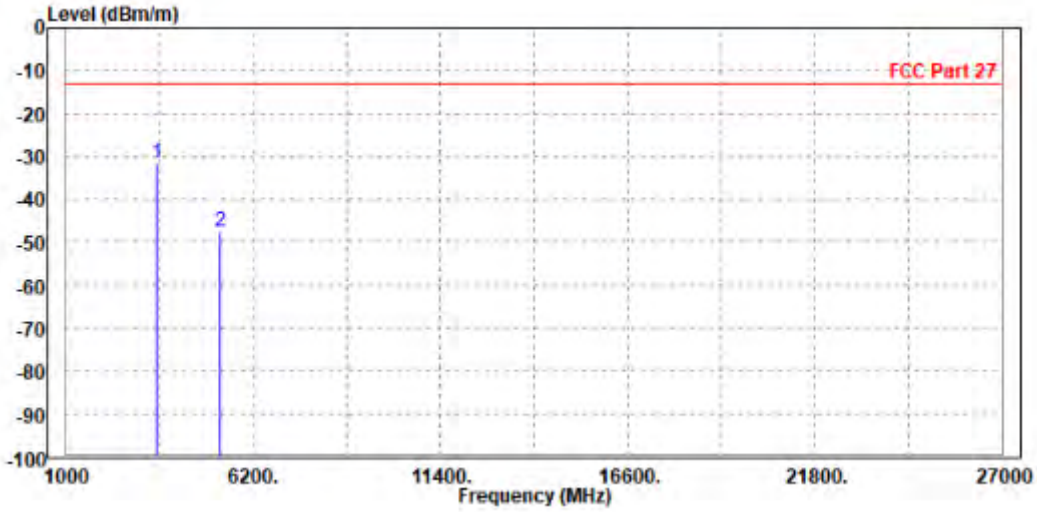
MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-37.47	-46.04	-13.00	-24.47	8.57	Peak	Horizontal
2	5257.800	-48.82	-58.12	-13.00	-35.82	9.30	Peak	Horizontal



MODE	TX channel 1513	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			

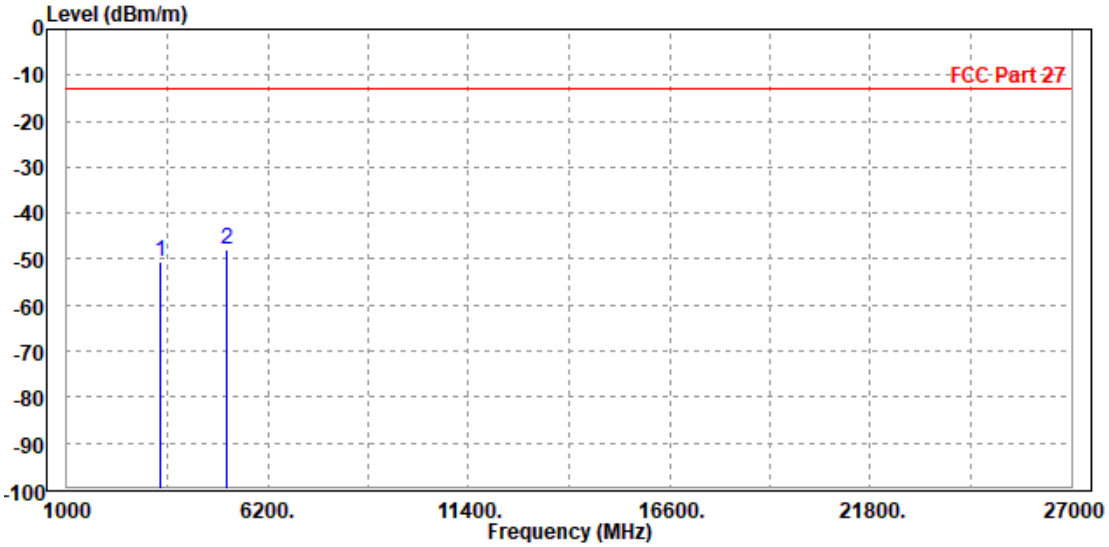
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-31.47	-40.66	-13.00	-18.47	9.19	Peak	Vertical
2	5257.800	-47.40	-57.20	-13.00	-34.40	9.80	Peak	Vertical



LTE Band 4
CHANNEL BANDWIDTH: 1.4MHz / QPSK
CH 19957

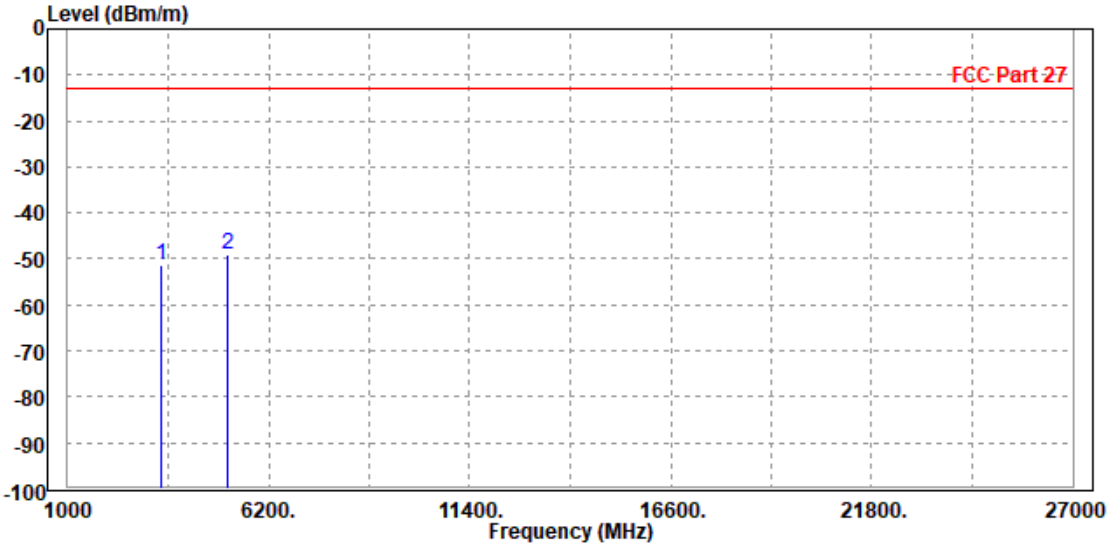
MODE	TX channel 19957	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3421.400	-50.71	-57.92	-13.00	-37.71	7.21	Peak	Horizontal
2 PP	5134.000	-47.87	-57.77	-13.00	-34.87	9.90	Peak	Horizontal



MODE	TX channel 19957	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			

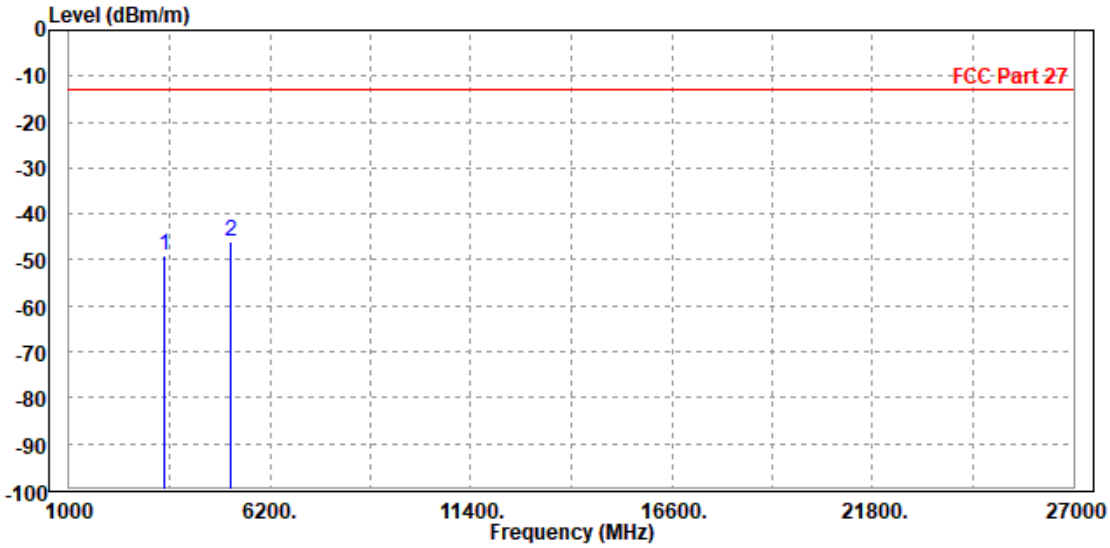
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3418.000	-51.42	-58.61	-13.00	-38.42	7.19	Peak	Vertical
2 PP	5132.100	-49.10	-59.49	-13.00	-36.10	10.39	Peak	Vertical



CH 20175

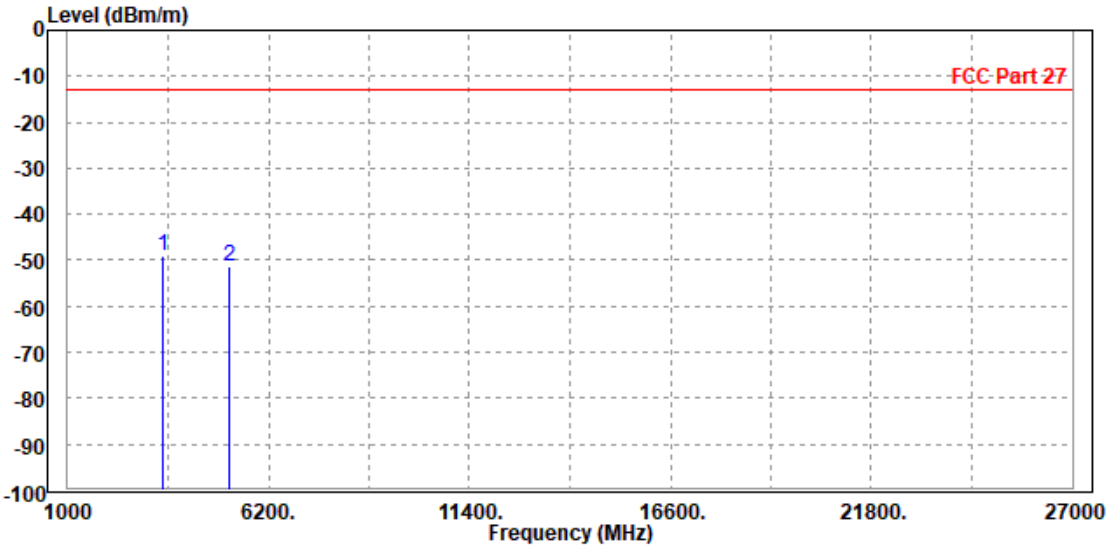
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-48.94	-56.22	-13.00	-35.94	7.28	Peak	Horizontal
2 PP	5197.500	-45.83	-55.83	-13.00	-32.83	10.00	Peak	Horizontal



MODE	TX channel 20175	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			

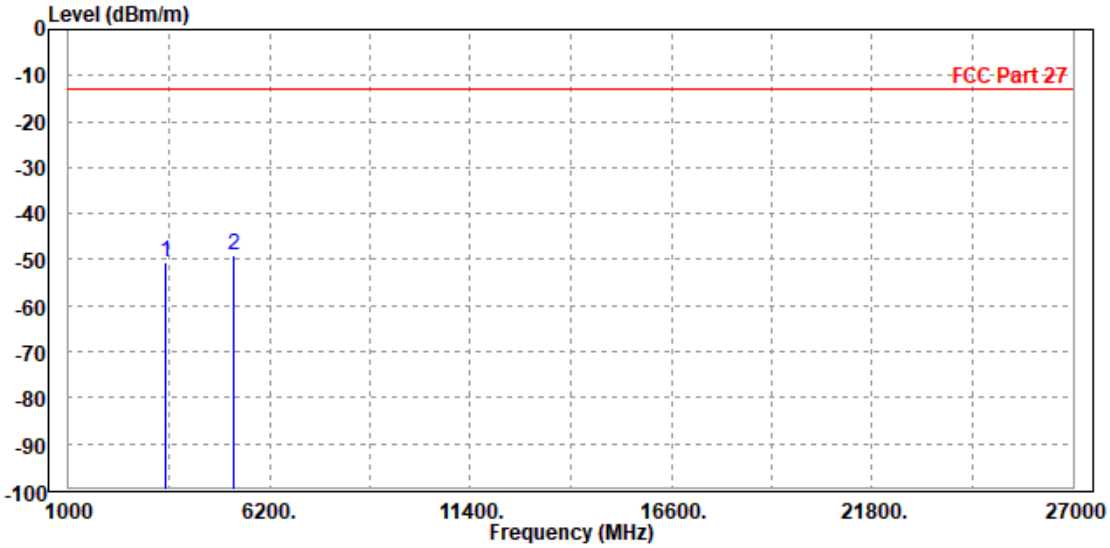
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-48.93	-56.20	-13.00	-35.93	7.27	Peak	Vertical
2	5197.500	-51.52	-61.97	-13.00	-38.52	10.45	Peak	Vertical



CH 20393

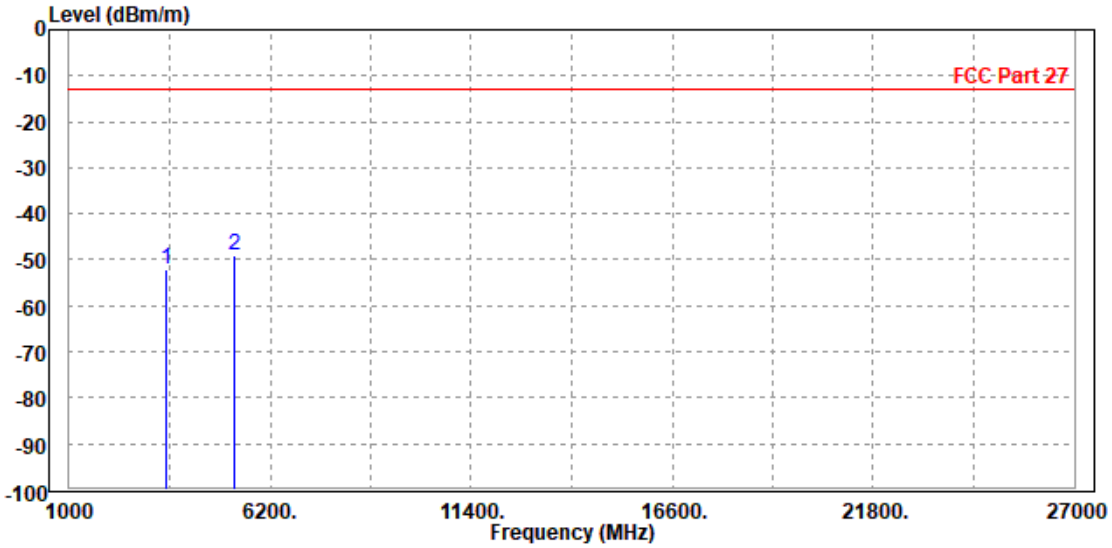
MODE	TX channel 20393	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3496.000	-50.58	-57.90	-13.00	-37.58	7.32	Peak	Horizontal
2 PP	5262.900	-48.91	-59.01	-13.00	-35.91	10.10	Peak	Horizontal



MODE	TX channel 20393	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	3508.600	-52.05	-59.38	-13.00	-39.05	7.33	Peak	Vertical
2 PP	5264.000	-49.17	-59.68	-13.00	-36.17	10.51	Peak	Vertical

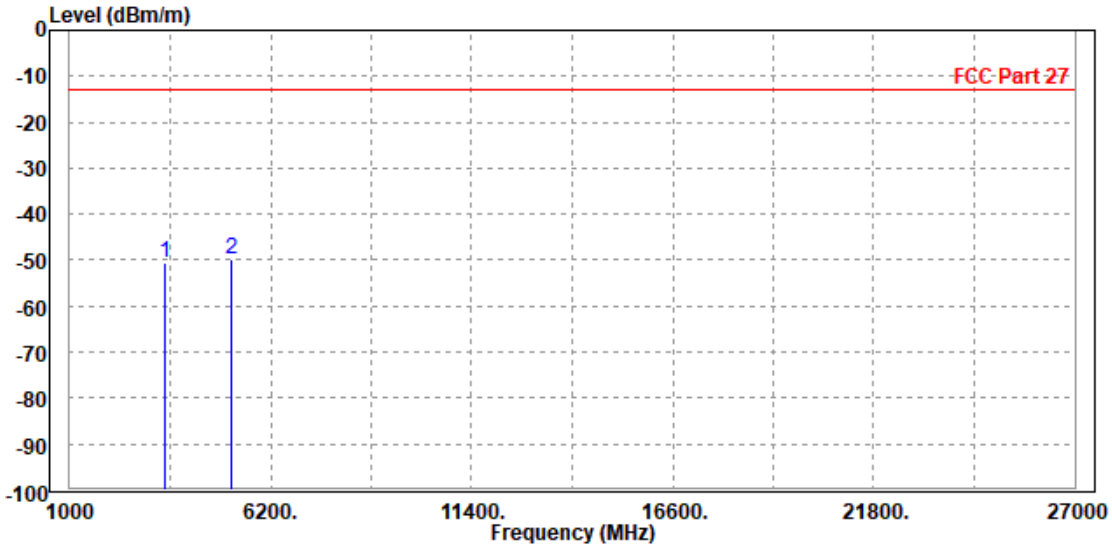


CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20175

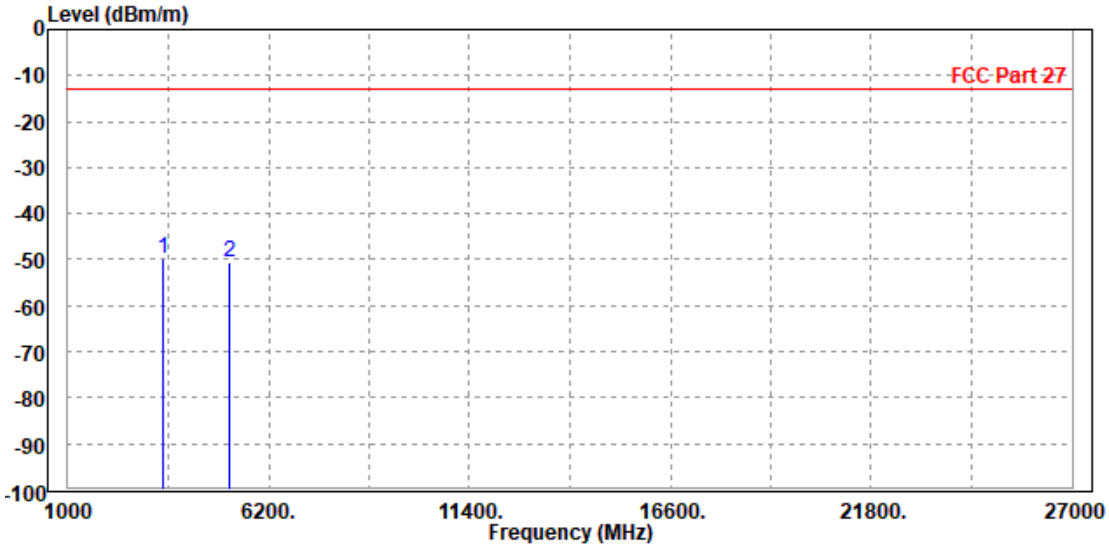
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-50.57	-57.85	-13.00	-37.57	7.28	Peak	Horizontal
2 PP	5197.500	-49.70	-59.70	-13.00	-36.70	10.00	Peak	Horizontal



MODE	TX channel 20175	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	PP 3470.000	-49.81	-57.08	-13.00	-36.81	7.27	Peak	Vertical
2	5197.500	-50.47	-60.92	-13.00	-37.47	10.45	Peak	Vertical

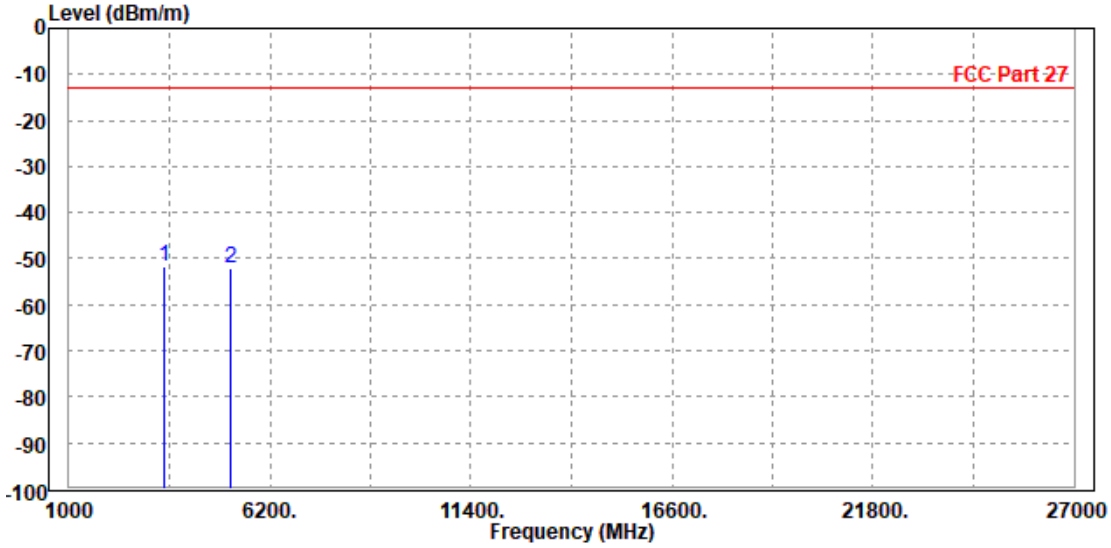


CHANNEL BANDWIDTH: 5MHz / QPSK

CH 20175

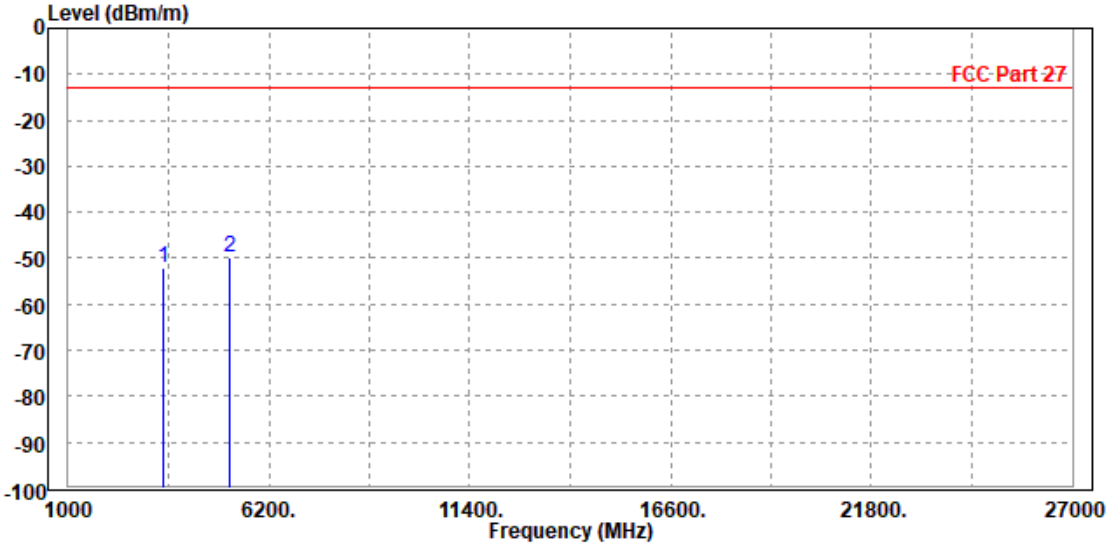
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-51.68	-58.96	-13.00	-38.68	7.28	Peak	Horizontal
2	5197.500	-52.09	-62.09	-13.00	-39.09	10.00	Peak	Horizontal



MODE	TX channel 20175	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			

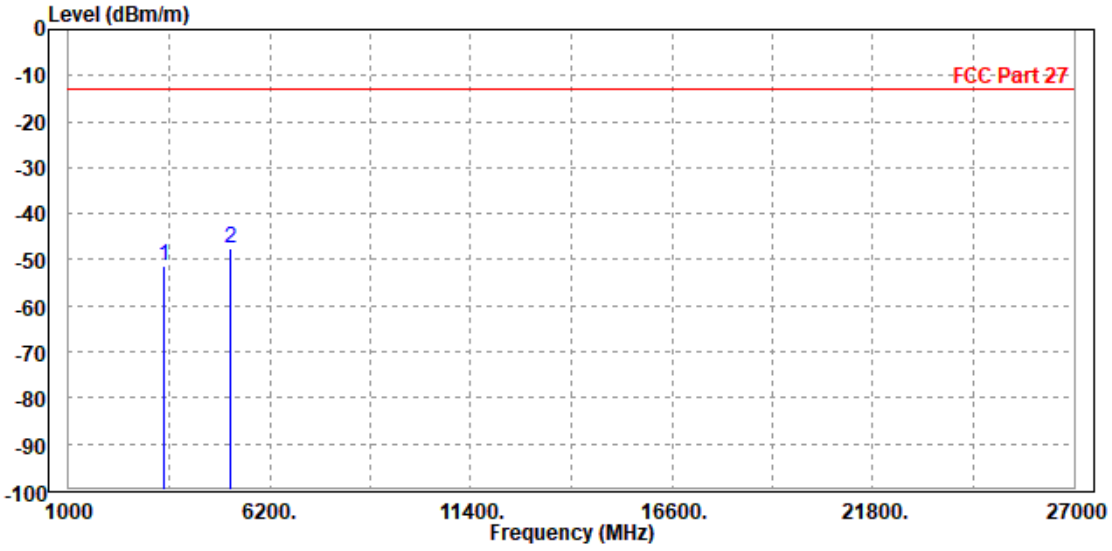
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-52.15	-59.41	-13.00	-39.15	7.26	Peak	Vertical
2 PP	5186.000	-49.89	-60.33	-13.00	-36.89	10.44	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

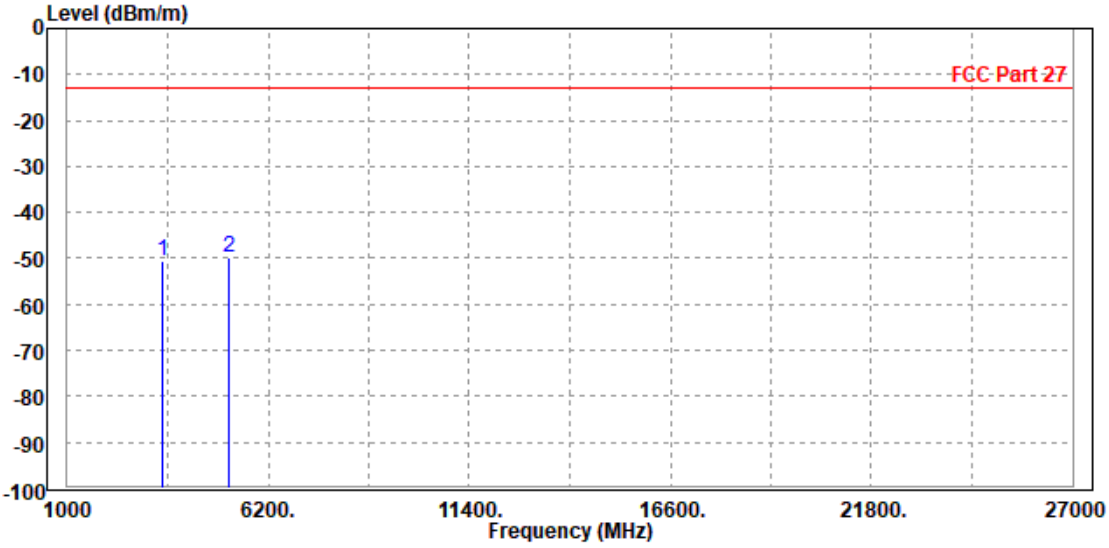
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-51.37	-58.64	-13.00	-38.37	7.27	Peak	Horizontal
2 PP	5186.000	-47.34	-57.32	-13.00	-34.34	9.98	Peak	Horizontal



MODE	TX channel 20175	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	3470.000	-50.64	-57.91	-13.00	-37.64	7.27	Peak	Vertical
2 PP	5197.500	-49.74	-60.19	-13.00	-36.74	10.45	Peak	Vertical

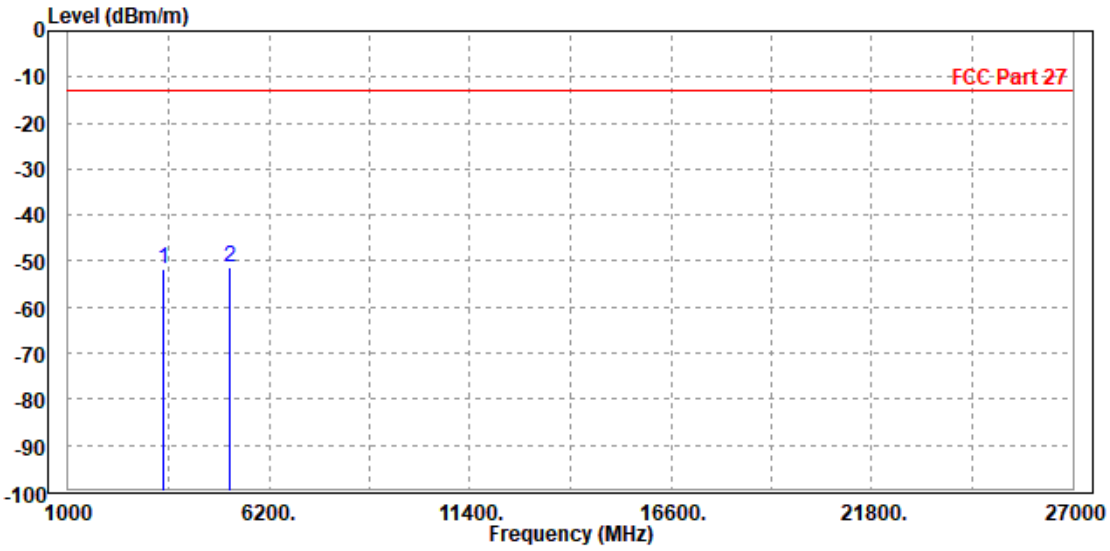


CHANNEL BANDWIDTH: 15MHz / QPSK

CH20175

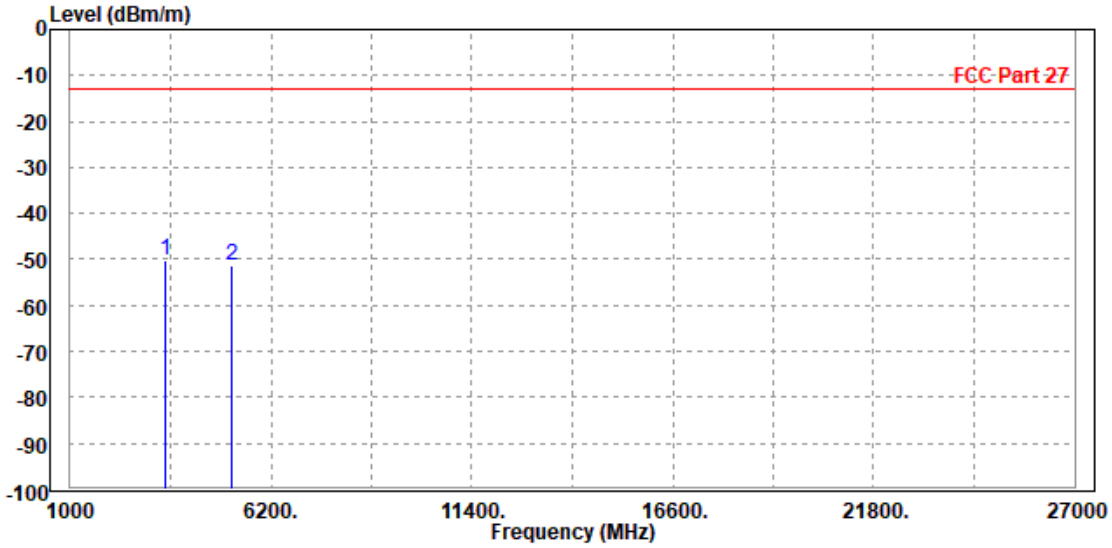
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-51.79	-59.06	-13.00	-38.79	7.27	Peak	Horizontal
2 PP	5186.000	-51.52	-61.50	-13.00	-38.52	9.98	Peak	Horizontal



MODE	TX channel 20175	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	PP 3470.000	-50.06	-57.33	-13.00	-37.06	7.27	Peak	Vertical
2	5197.500	-51.26	-61.71	-13.00	-38.26	10.45	Peak	Vertical

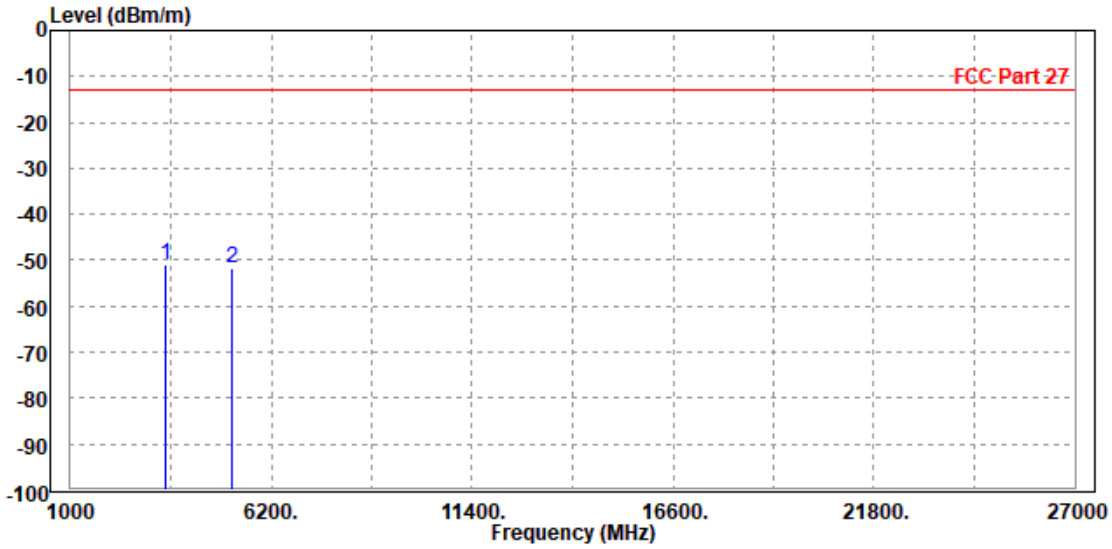


CHANNEL BANDWIDTH: 20MHz / QPSK

CH 20175

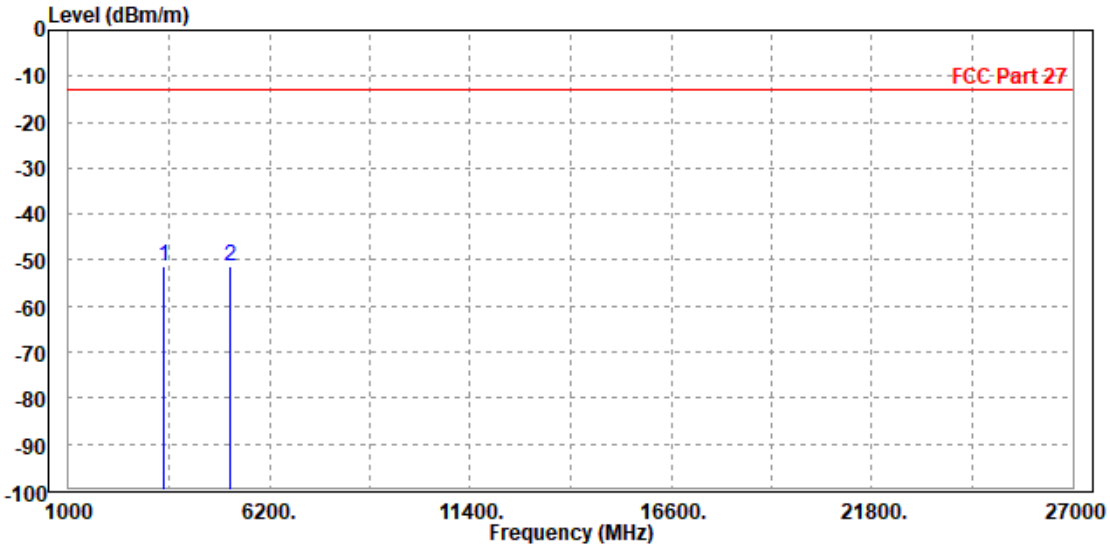
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-51.13	-58.41	-13.00	-38.13	7.28	Peak	Horizontal
2	5197.500	-51.63	-61.63	-13.00	-38.63	10.00	Peak	Horizontal



MODE	TX channel 20175	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			

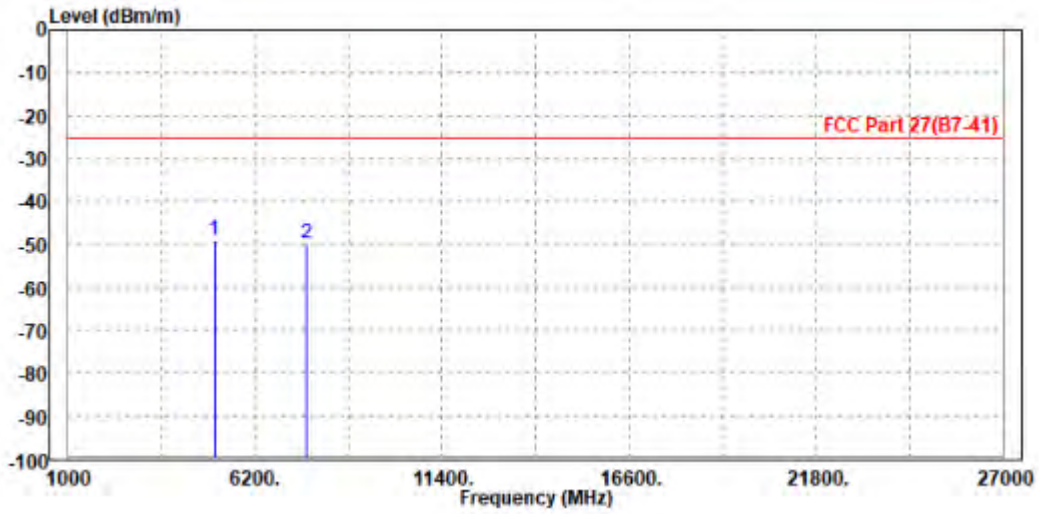
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3465.000	-51.37	-58.63	-13.00	-38.37	7.26	Peak	Vertical
2	5186.000	-51.44	-61.88	-13.00	-38.44	10.44	Peak	Vertical



LTE Band 7
CHANNEL BANDWIDTH: 5MHz / QPSK
CH 21100

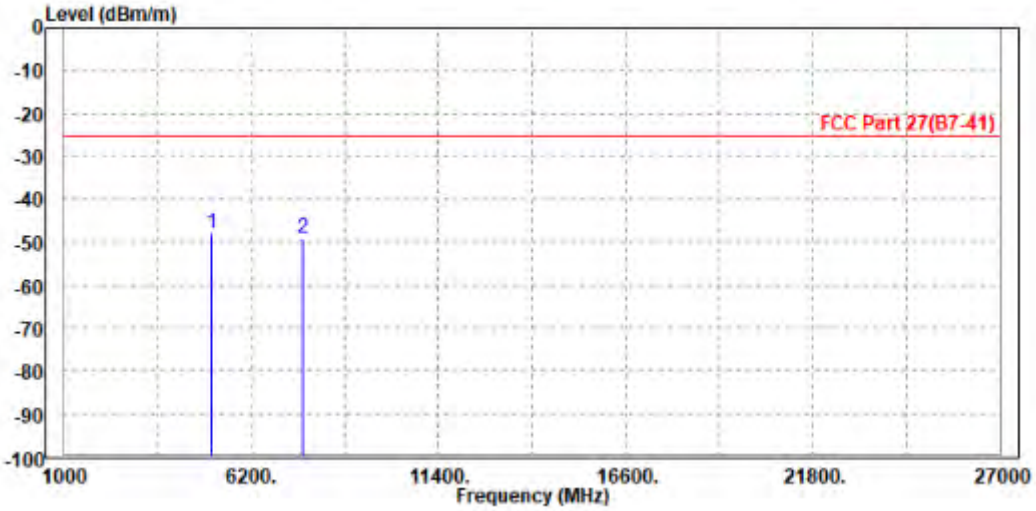
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	5070.000	-49.12	-57.85	-25.00	-24.12	8.73	Peak	Horizontal
2		7604.000	-49.63	-61.03	-25.00	-24.63	11.40	Peak	Horizontal



MODE	TX channel 21100	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	PP 5082.000	-48.02	-57.89	-25.00	-23.02	9.87	Peak	Vertical
2	7605.000	-48.87	-61.65	-25.00	-23.87	12.78	Peak	Vertical

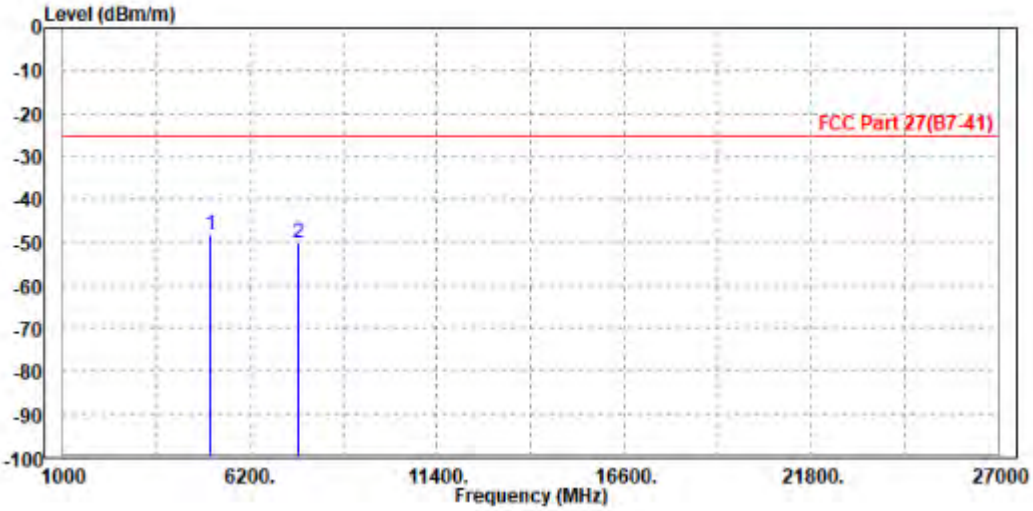


CHANNEL BANDWIDTH: 10MHz / QPSK

CH20800

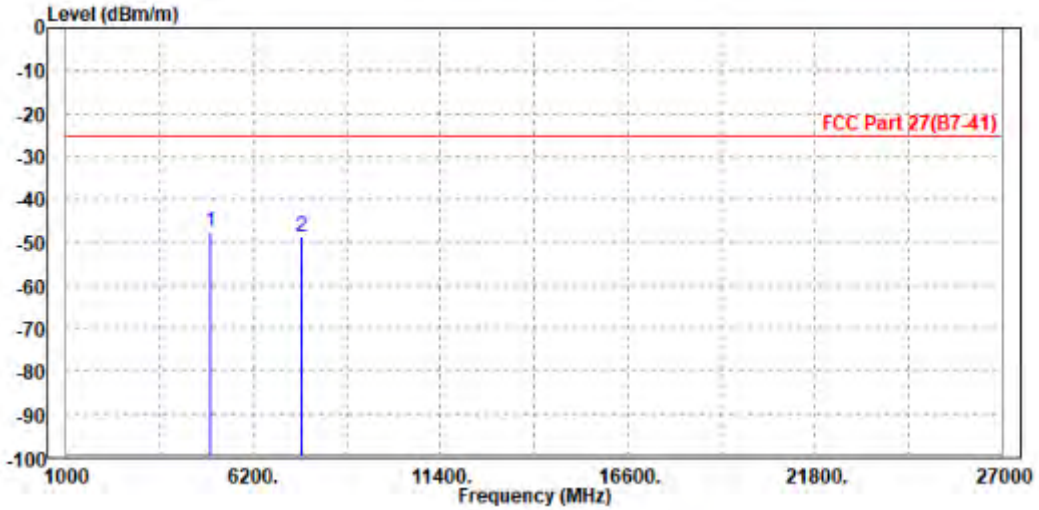
MODE	TX channel 20800	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5082.000	-48.10	-56.87	-25.00	-23.10	8.77	Peak	Horizontal
2	7515.000	-50.09	-61.46	-25.00	-25.09	11.37	Peak	Horizontal



MODE	TX channel 20800	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			

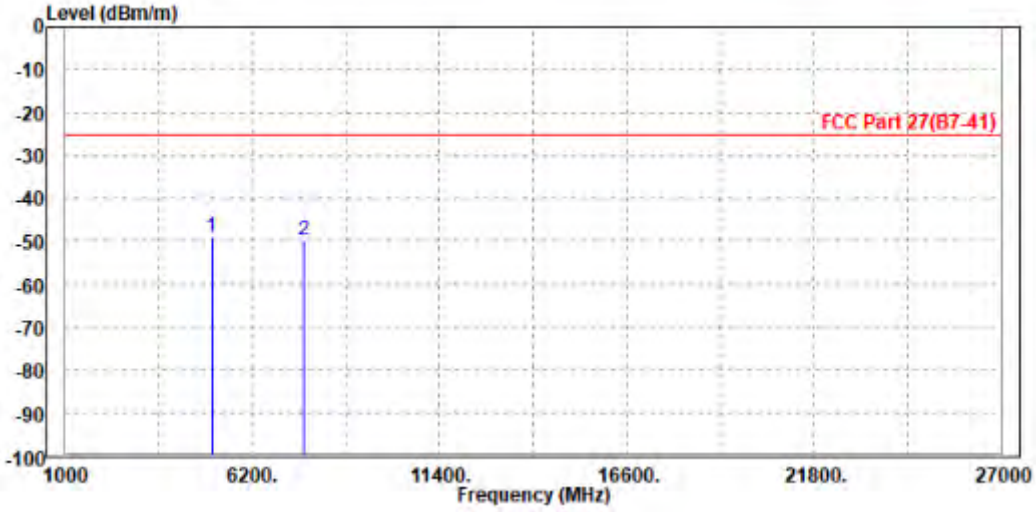
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5010.000	-47.67	-57.57	-25.00	-22.67	9.90	Peak	Vertical
2	7526.000	-48.54	-61.29	-25.00	-23.54	12.75	Peak	Vertical



CH21100

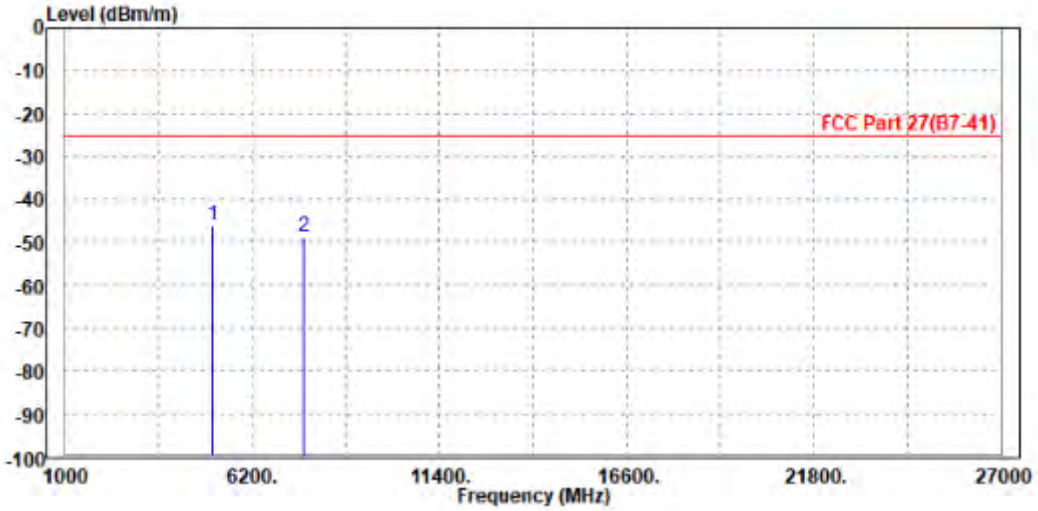
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5070.000	-49.22	-57.95	-25.00	-24.22	8.73	Peak	Horizontal
2	7604.000	-49.97	-61.37	-25.00	-24.97	11.40	Peak	Horizontal



MODE	TX channel 21100	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			

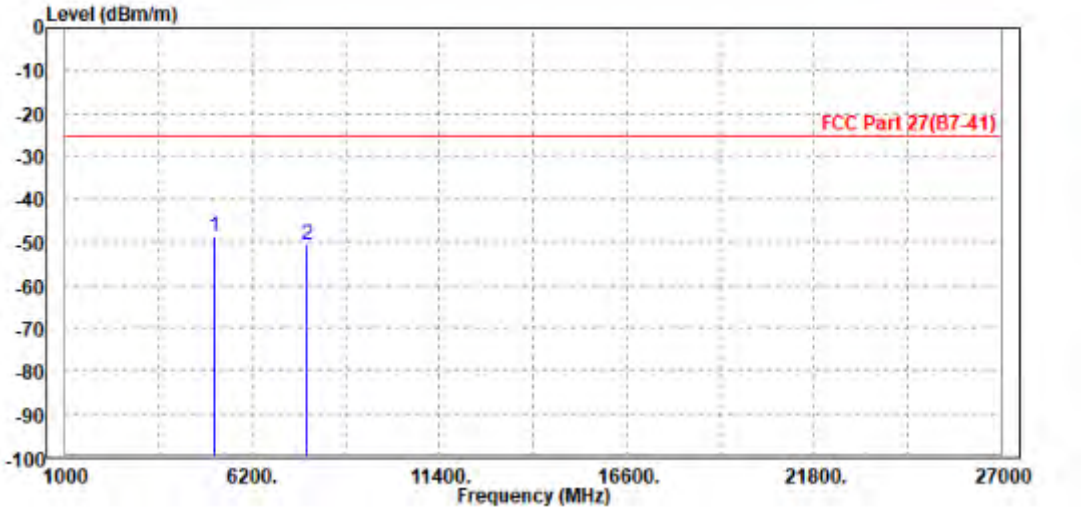
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5082.000	-45.82	-55.69	-25.00	-20.82	9.87	Peak	Vertical
2	7605.000	-48.68	-61.46	-25.00	-23.68	12.78	Peak	Vertical



CH21400

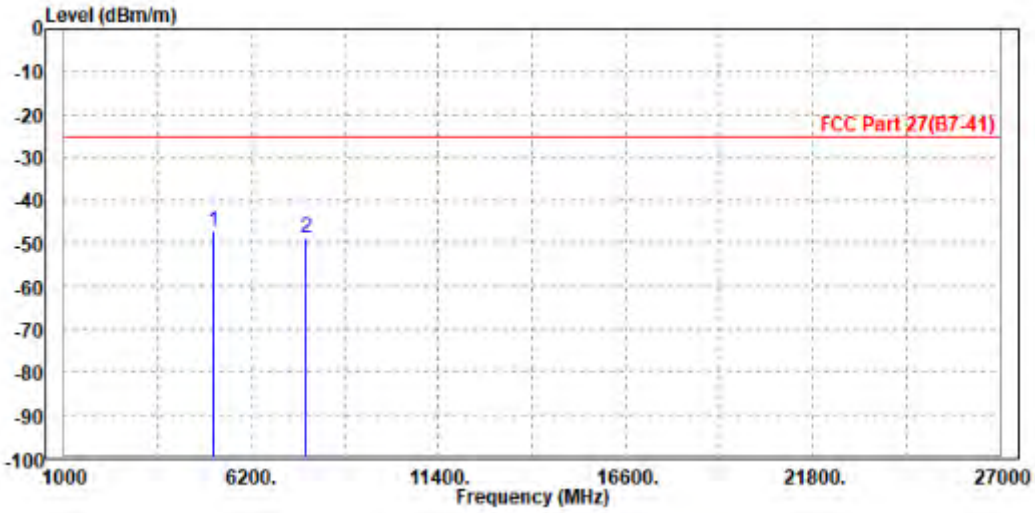
MODE	TX channel 21400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5134.000	-48.62	-57.55	-25.00	-23.62	8.93	Peak	Horizontal
2	7695.000	-50.43	-61.87	-25.00	-25.43	11.44	Peak	Horizontal



MODE	TX channel 21400	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			

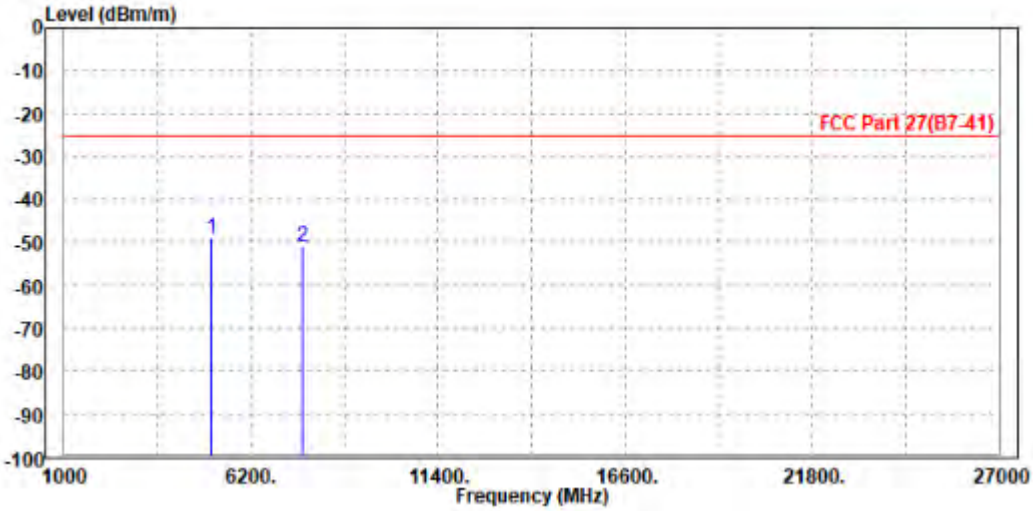
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5134.000	-47.15	-57.00	-25.00	-22.15	9.85	Peak	Vertical
2	7695.000	-48.58	-61.39	-25.00	-23.58	12.81	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

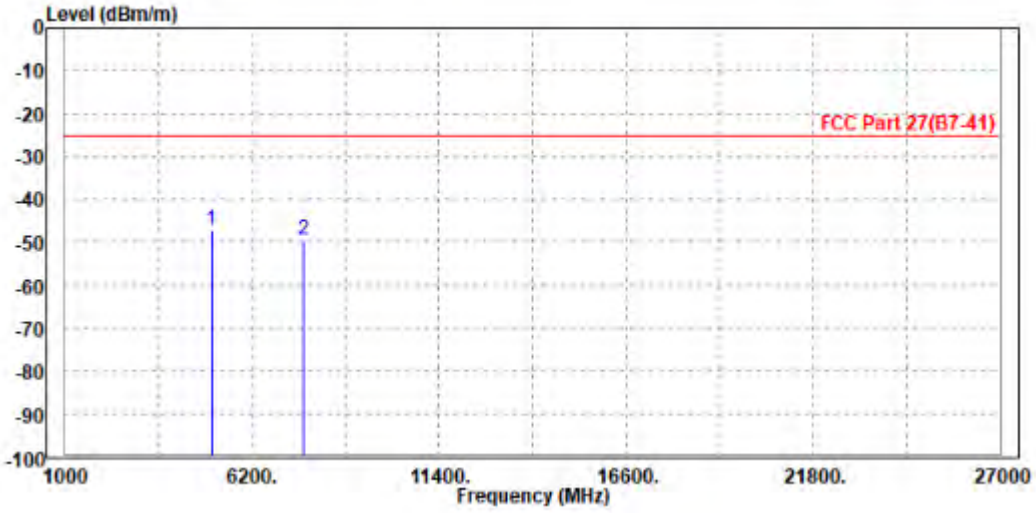
MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5082.000	-48.92	-57.69	-25.00	-23.92	8.77	Peak	Horizontal
2	7605.000	-50.88	-62.28	-25.00	-25.88	11.40	Peak	Horizontal



MODE	TX channel 21100	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			

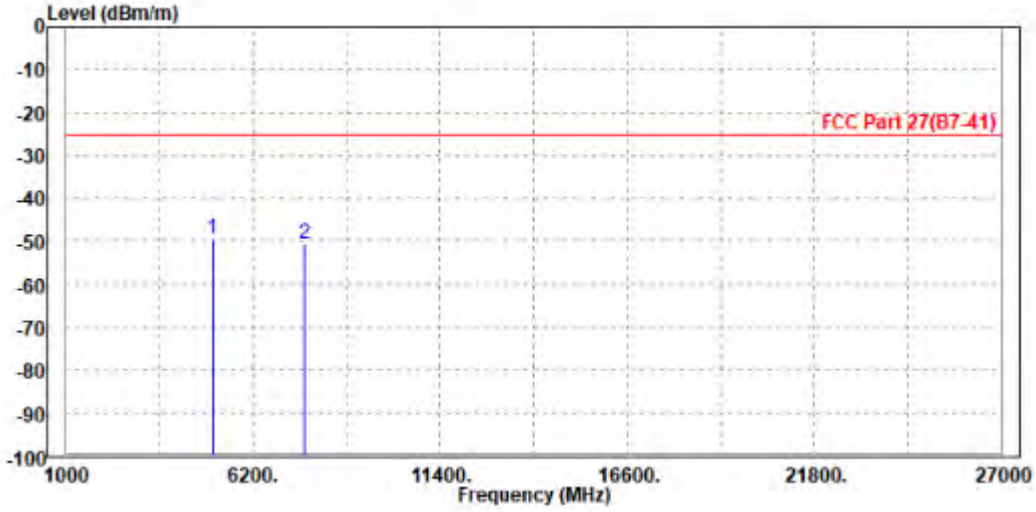
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5070.000	-47.20	-57.07	-25.00	-22.20	9.87	Peak	Vertical
2	7604.000	-49.28	-62.06	-25.00	-24.28	12.78	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

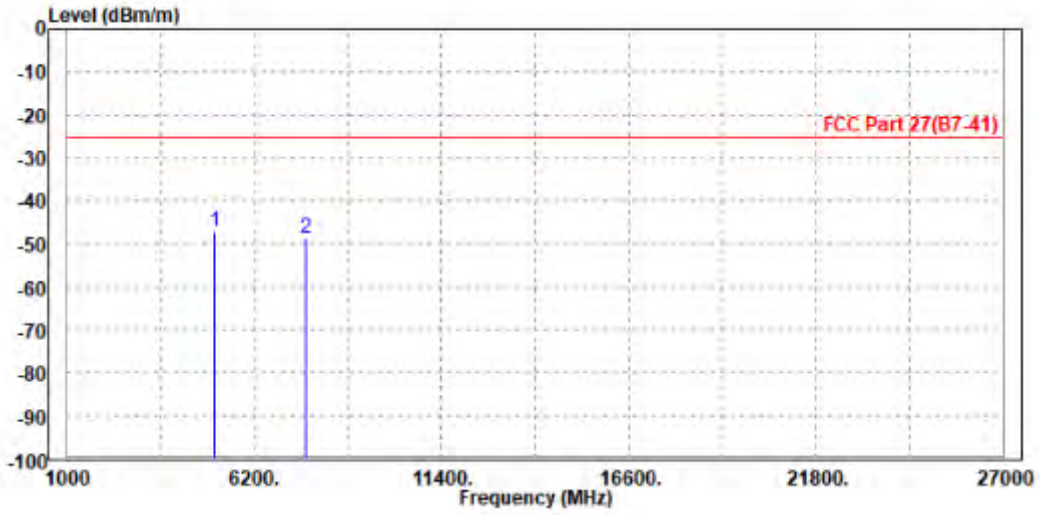
MODE	TX channel 21100	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5070.000	-49.39	-58.12	-25.00	-24.39	8.73	Peak	Horizontal
2	7604.000	-50.74	-62.14	-25.00	-25.74	11.40	Peak	Horizontal



MODE	TX channel 21100	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	PP 5082.000	-47.11	-56.98	-25.00	-22.11	9.87	Peak	Vertical
2	7605.000	-48.85	-61.63	-25.00	-23.85	12.78	Peak	Vertical



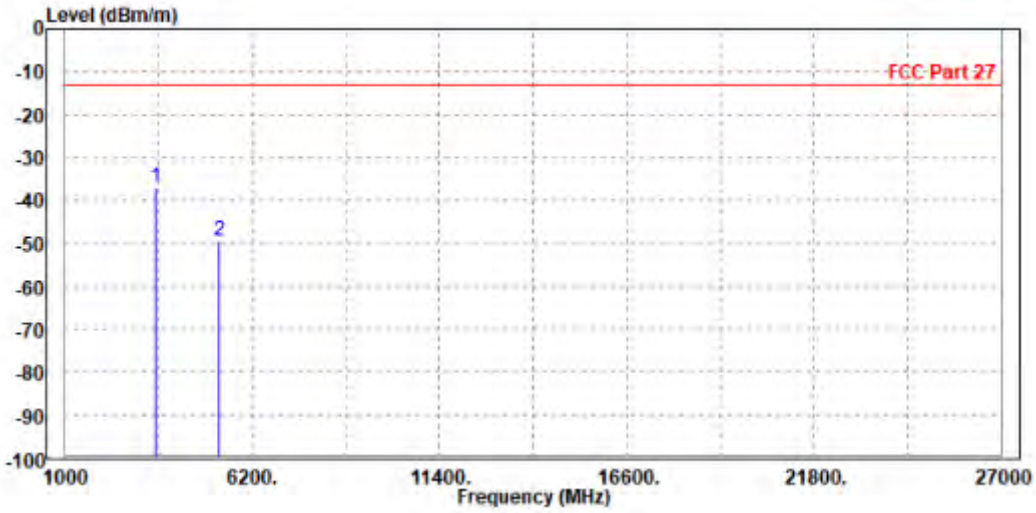
LTE B66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH132322

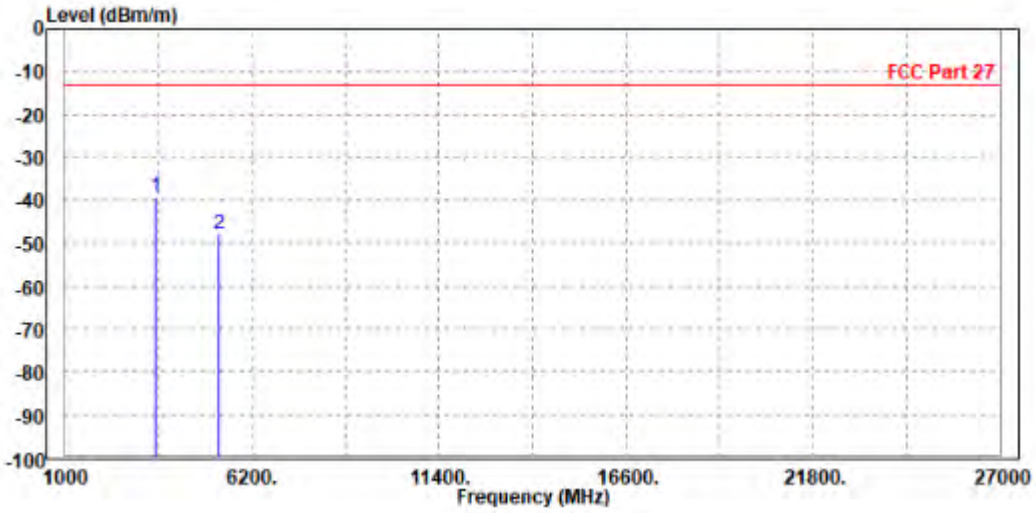
MODE	TX channel 132322	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3522.000	-36.73	-45.33	-13.00	-23.73	8.60	Peak	Horizontal
2	5265.000	-49.50	-58.82	-13.00	-36.50	9.32	Peak	Horizontal



MODE	TX channel 132322	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			

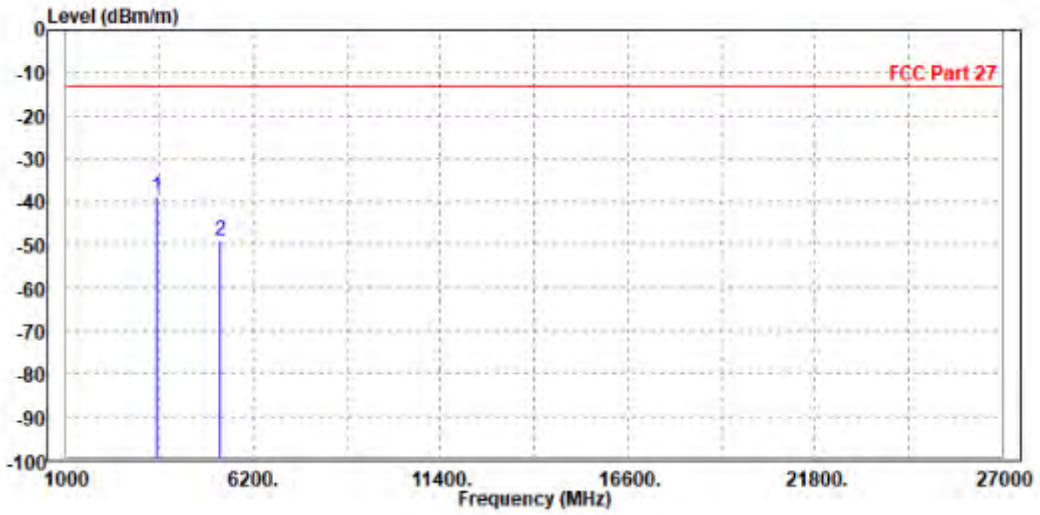
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3522.000	-39.22	-48.42	-13.00	-26.22	9.20	Peak	Vertical
2	5265.000	-48.07	-57.87	-13.00	-35.07	9.80	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

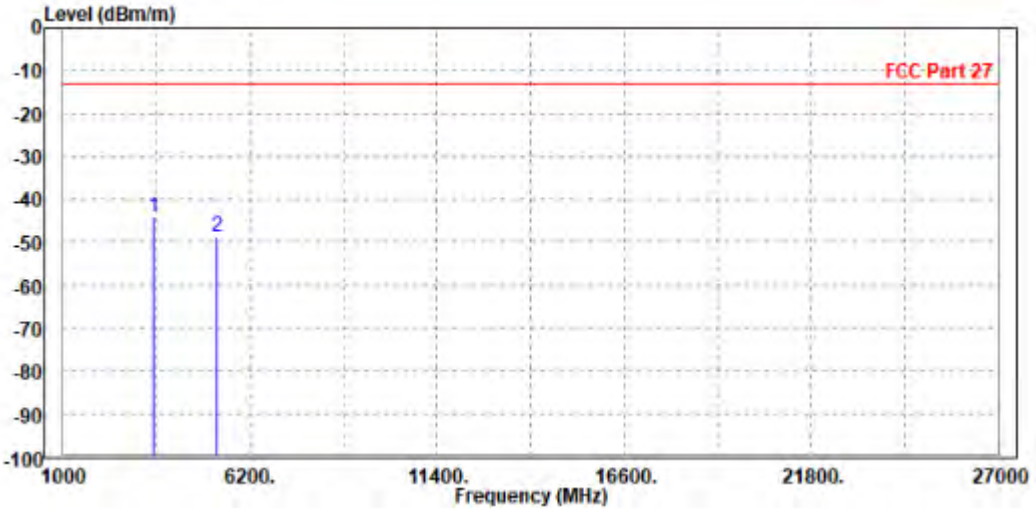
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3522.000	-38.86	-47.46	-13.00	-25.86	8.60	Peak	Horizontal
2	5265.000	-48.98	-58.30	-13.00	-35.98	9.32	Peak	Horizontal



MODE	TX channel 132322	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 PP	3510.000	-43.99	-53.18	-13.00	-30.99	9.19	Peak	Vertical
2	5264.000	-48.67	-58.47	-13.00	-35.67	9.80	Peak	Vertical

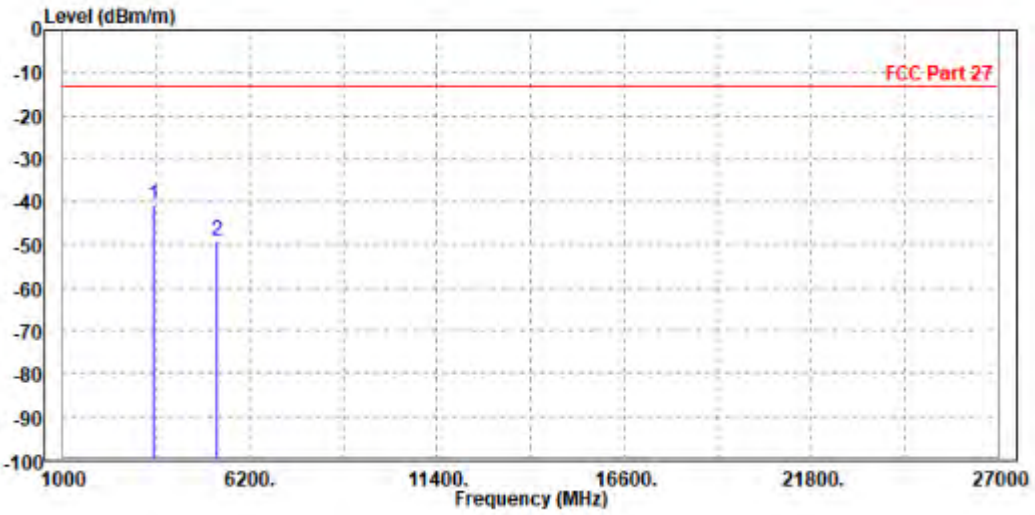


CHANNEL BANDWIDTH: 5MHz / QPSK

CH132322

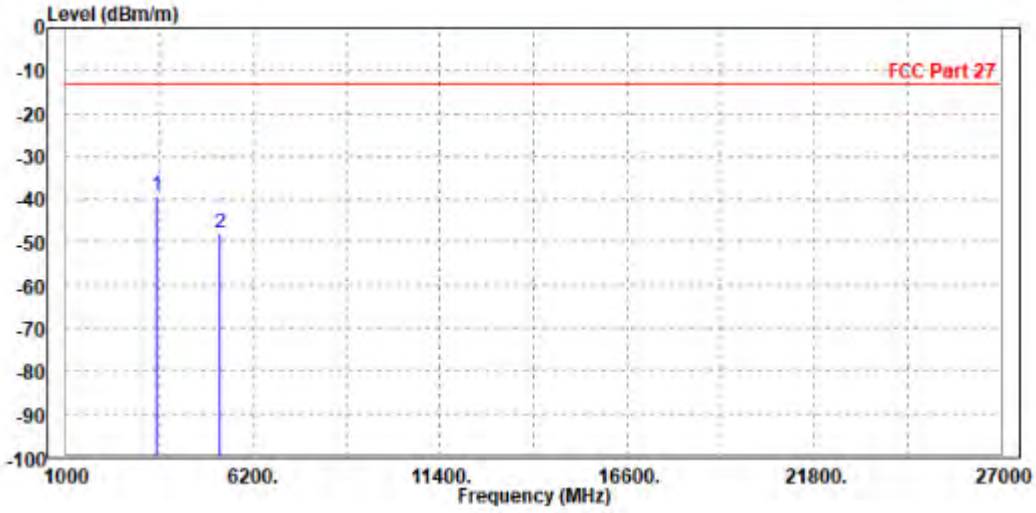
MODE	TX channel 132322	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3522.000	-40.71	-49.31	-13.00	-27.71	8.60	Peak	Horizontal
2	5265.000	-49.06	-58.38	-13.00	-36.06	9.32	Peak	Horizontal



MODE	TX channel 132322	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	PP 3510.000	-39.18	-48.37	-13.00	-26.18	9.19	Peak	Vertical
2	5264.000	-47.93	-57.73	-13.00	-34.93	9.80	Peak	Vertical

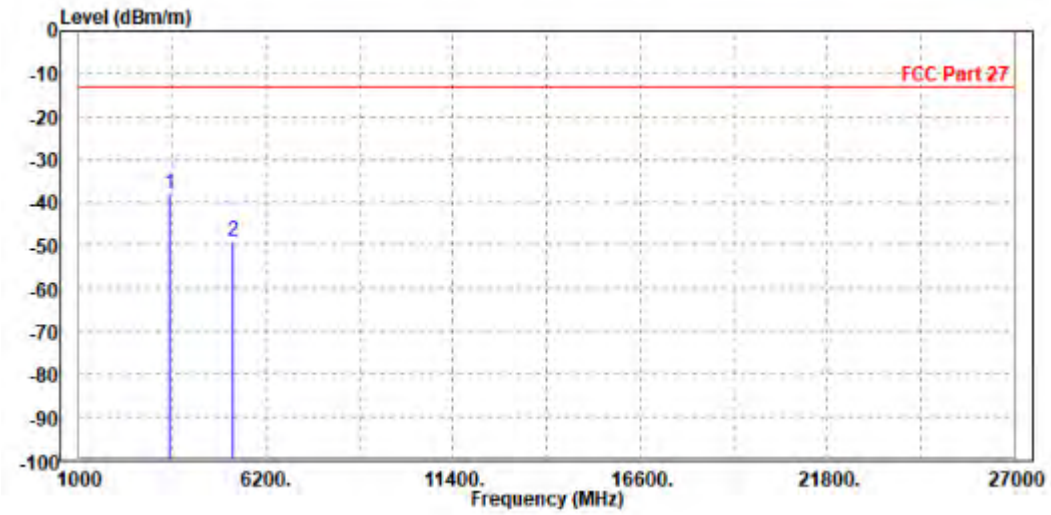


CHANNEL BANDWIDTH: 10MHz / QPSK

CH132322

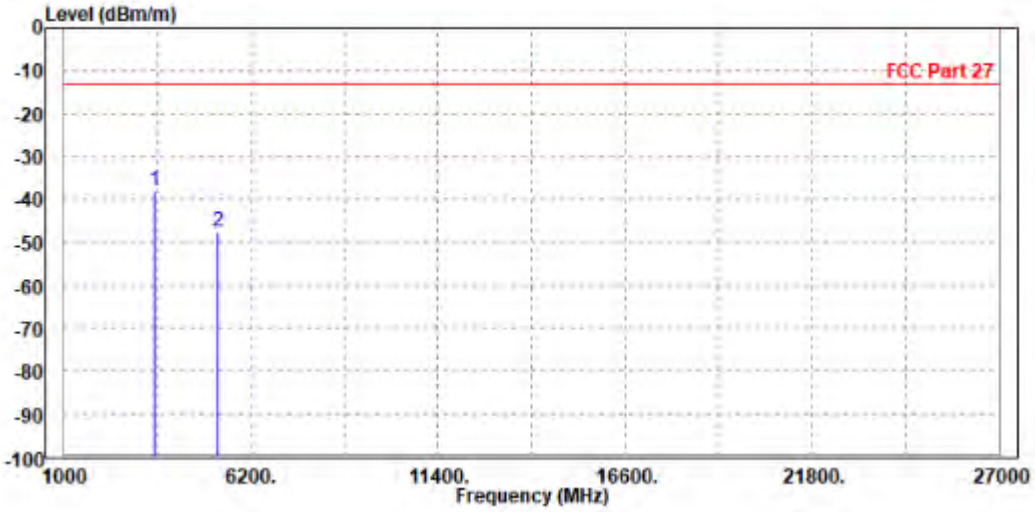
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3522.000	-38.13	-46.73	-13.00	-25.13	8.60	Peak	Horizontal
2	5265.000	-48.87	-58.19	-13.00	-35.87	9.32	Peak	Horizontal



MODE	TX channel 132322	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 PP	3522.000	-38.06	-47.26	-13.00	-25.06	9.20	Peak	Vertical
2	5265.000	-47.59	-57.39	-13.00	-34.59	9.80	Peak	Vertical

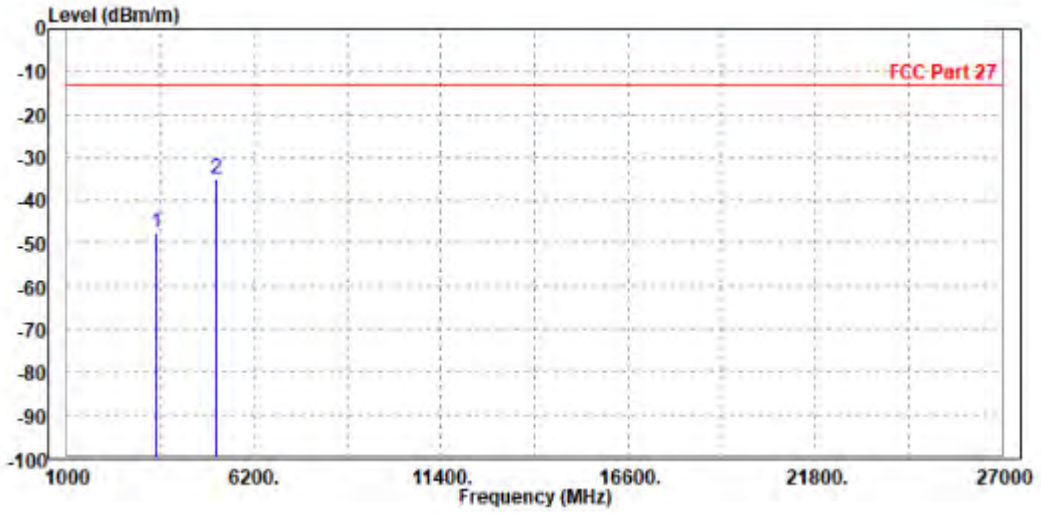


CHANNEL BANDWIDTH: 15MHz / QPSK

CH132047

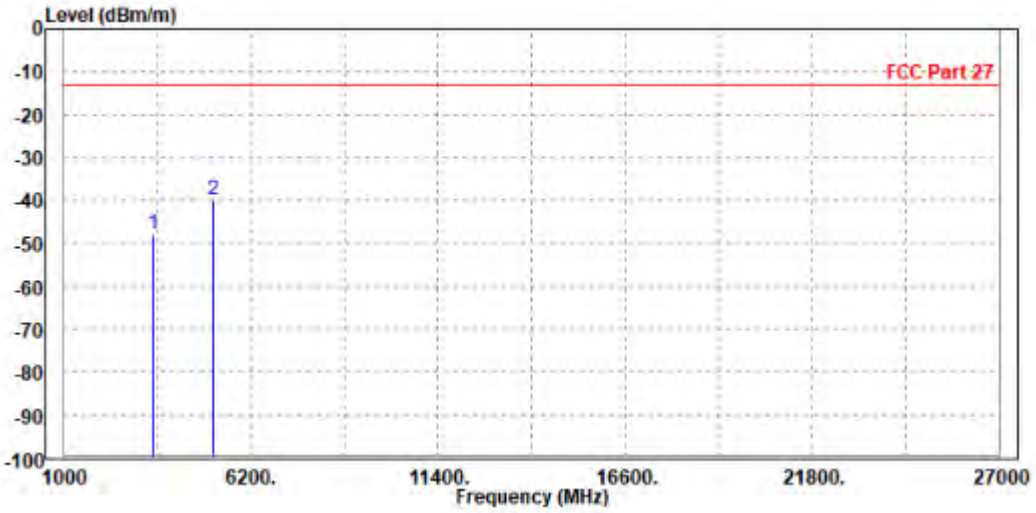
MODE	TX channel 132047	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-47.70	-56.28	-13.00	-34.70	8.58	Peak	Horizontal
2 PP	5152.500	-34.86	-43.84	-13.00	-21.86	8.98	Peak	Horizontal



MODE	TX channel 132047	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			

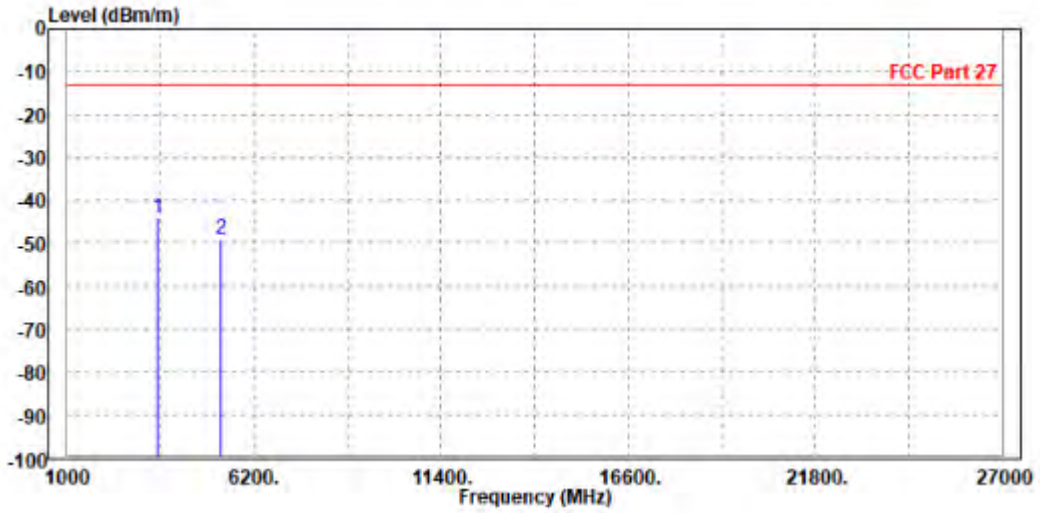
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3444.000	-47.75	-56.89	-13.00	-34.75	9.14	Peak	Vertical
2 PP	5152.500	-39.92	-49.76	-13.00	-26.92	9.84	Peak	Vertical



CH132322

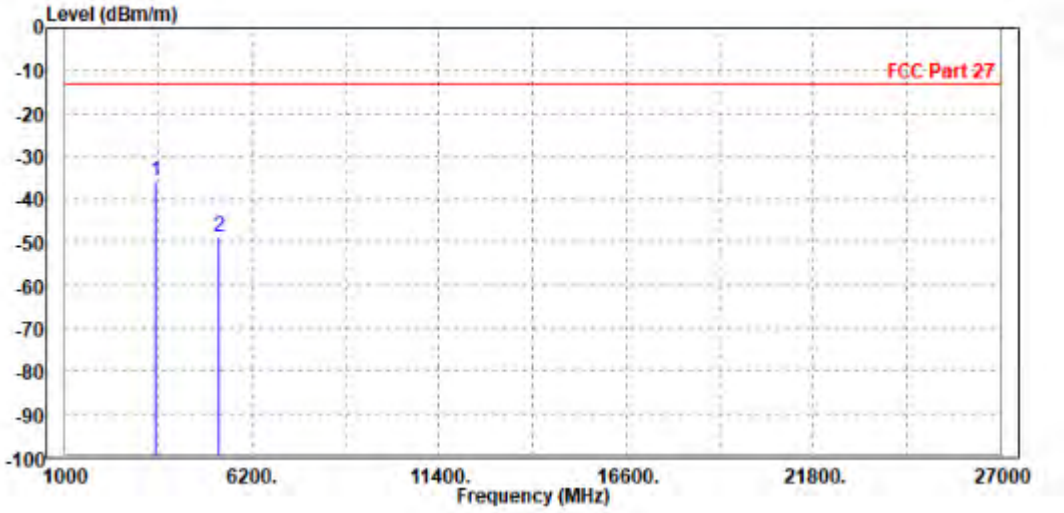
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3510.000	-44.29	-52.87	-13.00	-31.29	8.58	Peak	Horizontal
2	5264.000	-49.09	-58.41	-13.00	-36.09	9.32	Peak	Horizontal



MODE	TX channel 132322	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			

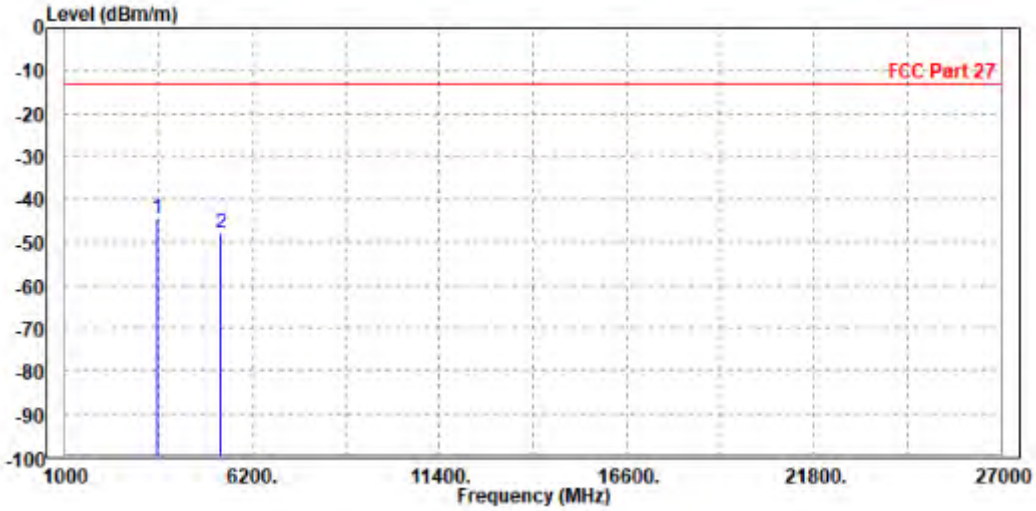
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3522.000	-35.92	-45.12	-13.00	-22.92	9.20	Peak	Vertical
2	5265.000	-48.66	-58.46	-13.00	-35.66	9.80	Peak	Vertical



CH132597

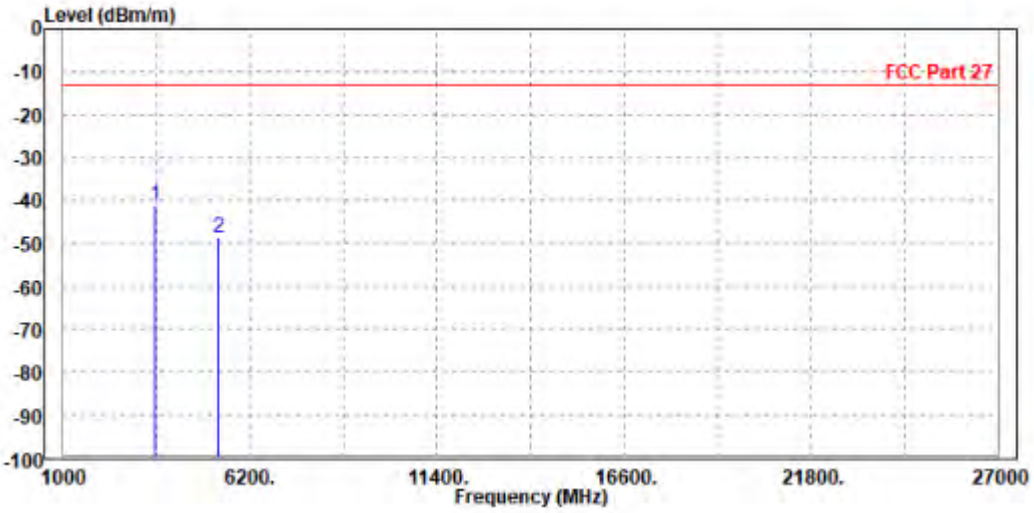
MODE	TX channel 132597	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3548.000	-44.54	-53.16	-13.00	-31.54	8.62	Peak	Horizontal
2	5317.500	-48.01	-57.49	-13.00	-35.01	9.48	Peak	Horizontal



MODE	TX channel 132597	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			

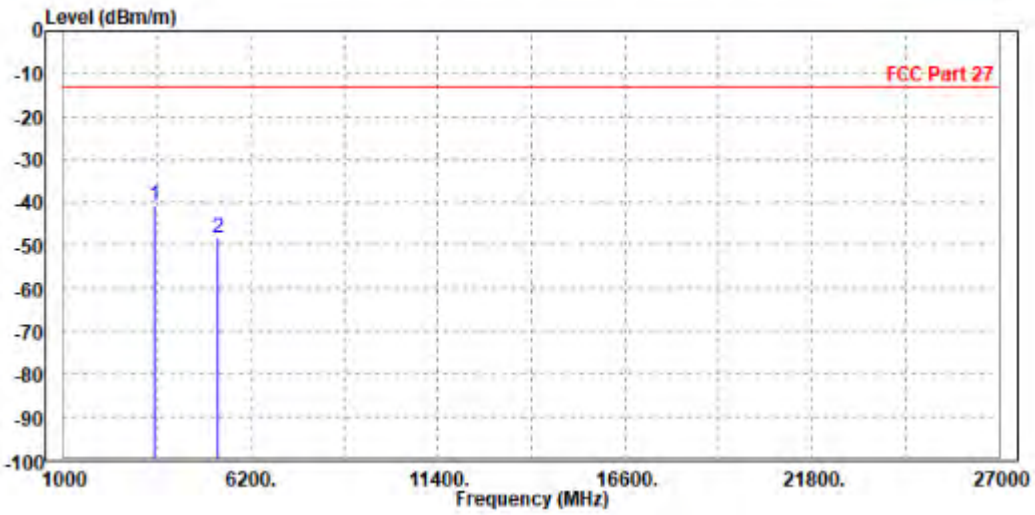
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3548.000	-40.90	-50.11	-13.00	-27.90	9.21	Peak	Vertical
2	5317.500	-48.48	-58.26	-13.00	-35.48	9.78	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

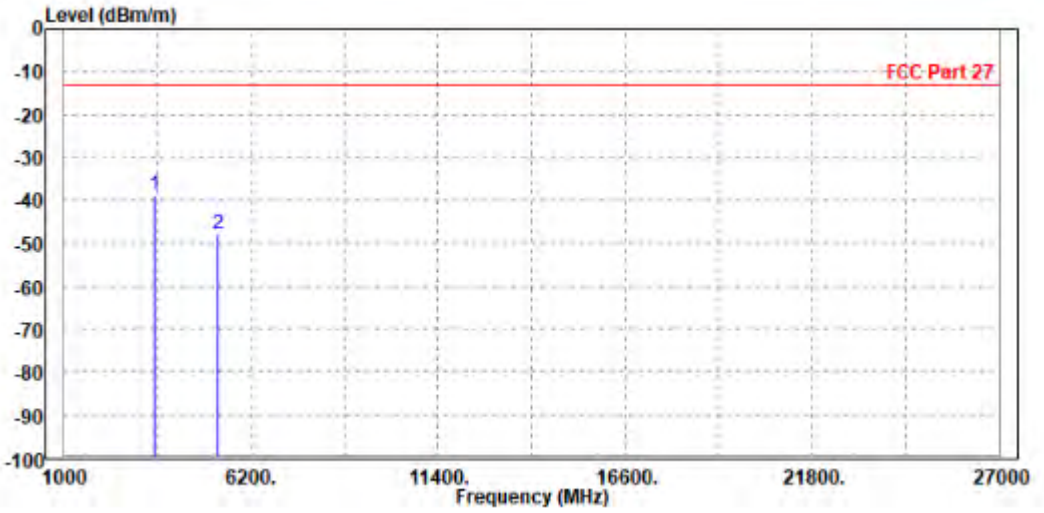
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3522.000	-40.79	-49.39	-13.00	-27.79	8.60	Peak	Horizontal
2	5265.000	-48.48	-57.80	-13.00	-35.48	9.32	Peak	Horizontal



MODE	TX channel 132322	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	PP 3510.000	-38.79	-47.98	-13.00	-25.79	9.19	Peak	Vertical
2	5264.000	-47.94	-57.74	-13.00	-34.94	9.80	Peak	Vertical

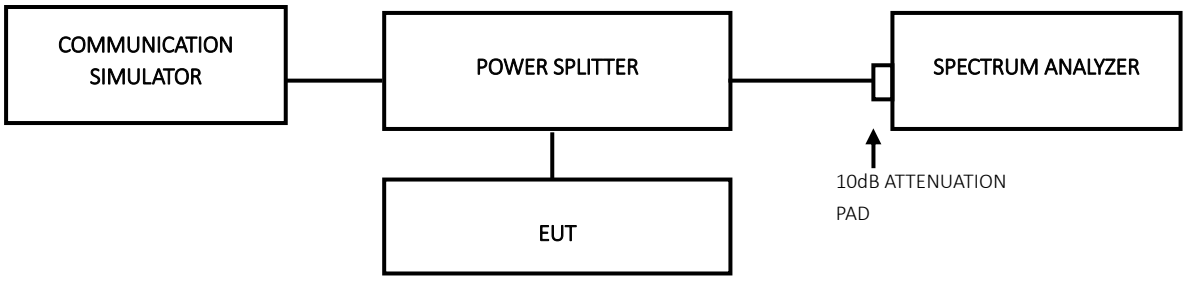


3.7 PEAK TO AVERAGE RATIO

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:

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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

WCMDA BAND4

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	2.94	13	PASS
Band4	1413	2.91	13	PASS
Band4	1513	2.96	13	PASS

Test Graphs

Band4-1312

Band4-1413

Band4-1513


Center Freq 1.752600000 GHz
Center Freq: 1.752600000 GHz
Trig: Free Run
#Atten: 30 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
22.70 dBm
53.83 % at 0dB
10.0 % 1.66 dB
1.0 % 2.50 dB
0.1 % 2.96 dB
0.01 % 3.16 dB
0.001 % 3.27 dB
0.0001 % 3.33 dB
Peak 3.35 dB
26.05 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 5.0000 MHz
Center Freq
1.752600000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1629	4.694	---	PASS
Band4	1413	4.1678	4.687	---	PASS
Band4	1513	4.1622	4.689	---	PASS

Test Graphs

Band4-1312

Band4-1413

Band4-1513


Center Freq 1.752600000 GHz
Center Freq: 1.752600000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 13.18 dB
10 dB/div
Ref 40.00 dBm
Log
Center Freq
1.752600000 GHz
Center 1.753 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.1622 MHz
Total Power
25.2 dBm
Transmit Freq Error
-3.397 kHz
OBW Power
99.00 %
x dB Bandwidth
4.689 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.95	-31.26	-13	PASS
Band4	1513	1755.09	-30.85	-13	PASS

Test Graphs

Band4-1312

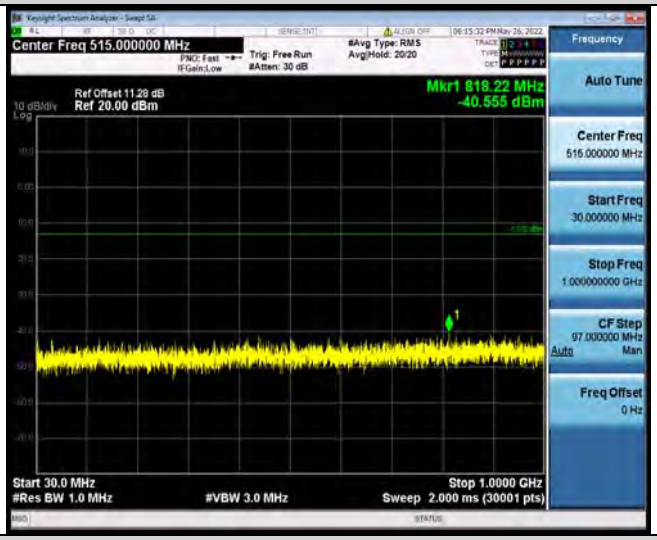
Band4-1513


CONDUCTED SPURIOUS EMISSION

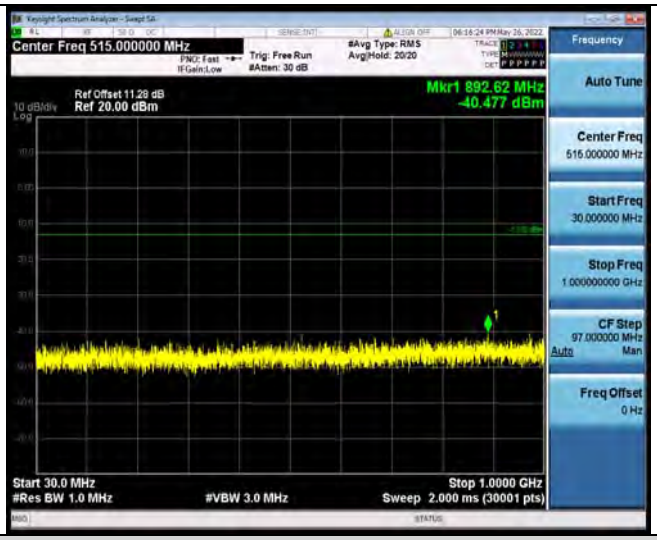
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~1000MHz	818.22	-40.56	-13	PASS
Band4	1312	1000~20000MHz	3746.77	-32.5	-13	PASS
Band4	1413	30~1000MHz	892.62	-40.48	-13	PASS
Band4	1413	1000~20000MHz	3673.93	-32.62	-13	PASS
Band4	1513	30~1000MHz	812.63	-40.26	-13	PASS
Band4	1513	1000~20000MHz	19324.23	-32.43	-13	PASS

Test Graphs

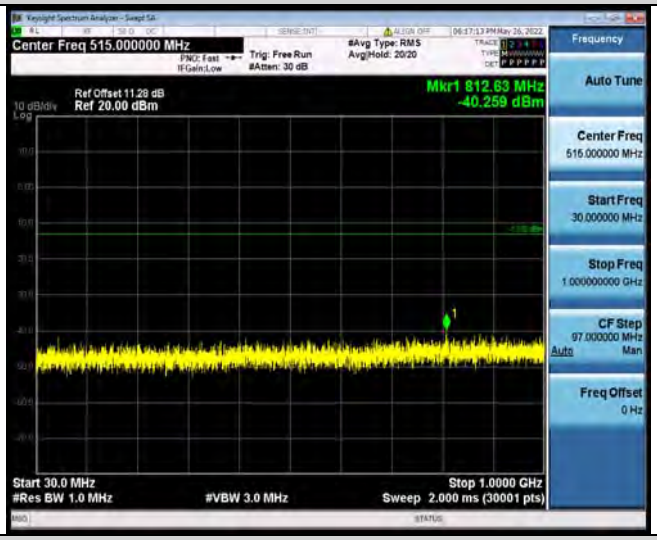
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz

Band4-1413-30~1000MHz



Band4-1413-1000~20000MHz

Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz


Center Freq 10.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/10
Ref Offset 12.72 dB
10 dB/div
Ref 30.00 dBm
Mkr2 19.324 2 GHz
-32.431 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 3.000 s (30001 pts)
Frequency
Auto Tune
Center Freq
10.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
1.900000000 GHz
Auto
Man
Freq Offset
0 Hz

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-1.30	-0.000759	±2.5	PASS
Band4	1312	VN	NT	-4.84	-0.002826	±2.5	PASS
Band4	1312	VH	NT	-5.36	-0.003130	±2.5	PASS
Band4	1413	VL	NT	3.43	0.001980	±2.5	PASS
Band4	1413	VN	NT	2.98	0.001720	±2.5	PASS
Band4	1413	VH	NT	2.38	0.001374	±2.5	PASS
Band4	1513	VL	NT	-1.86	-0.001061	±2.5	PASS
Band4	1513	VN	NT	0.40	0.000228	±2.5	PASS
Band4	1513	VH	NT	-1.90	-0.001084	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-3.70	-0.002161	±2.5	PASS
Band4	1312	NV	-20	-5.19	-0.003031	±2.5	PASS
Band4	1312	NV	0	-3.30	-0.001927	±2.5	PASS
Band4	1312	NV	10	-6.08	-0.003551	±2.5	PASS
Band4	1312	NV	20	1.53	0.000893	±2.5	PASS
Band4	1312	NV	30	2.00	0.001168	±2.5	PASS
Band4	1312	NV	40	2.53	0.001477	±2.5	PASS
Band4	1312	NV	50	5.74	0.003352	±2.5	PASS
Band4	1413	NV	-30	2.09	0.001206	±2.5	PASS
Band4	1413	NV	-20	3.61	0.002084	±2.5	PASS
Band4	1413	NV	0	4.13	0.002384	±2.5	PASS
Band4	1413	NV	10	8.25	0.004762	±2.5	PASS
Band4	1413	NV	20	5.84	0.003371	±2.5	PASS
Band4	1413	NV	30	4.93	0.002845	±2.5	PASS
Band4	1413	NV	40	3.55	0.002049	±2.5	PASS
Band4	1413	NV	50	-0.92	-0.000531	±2.5	PASS
Band4	1513	NV	-30	-3.11	-0.001775	±2.5	PASS
Band4	1513	NV	-20	-6.20	-0.003538	±2.5	PASS
Band4	1513	NV	0	-4.56	-0.002602	±2.5	PASS
Band4	1513	NV	10	-6.46	-0.003686	±2.5	PASS
Band4	1513	NV	20	-8.03	-0.004582	±2.5	PASS
Band4	1513	NV	30	-2.75	-0.001569	±2.5	PASS
Band4	1513	NV	40	-3.74	-0.002134	±2.5	PASS
Band4	1513	NV	50	-5.65	-0.003224	±2.5	PASS

LTE BAND4

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

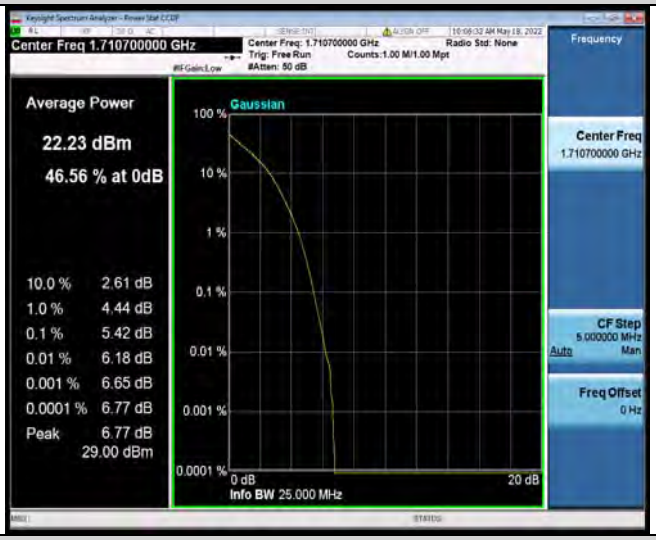
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	5.43	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.42	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	5.12	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.17	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	5.03	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.41	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.52	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.08	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.11	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.87	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.63	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.14	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	5.23	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.49	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.99	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.26	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	5.04	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.50	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.97	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.37	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.63	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.07	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.57	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.27	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	5.51	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.44	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	5.17	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.22	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	5.17	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.42	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.98	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.18	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.72	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.96	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	5.78	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.24	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	5.29	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.48	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	4.96	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.24	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	4.90	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.45	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.96	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.25	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.74	13	PASS

Band4	10MHz	16QAM	20175	50RB#0	6.02	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	5.59	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.23	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	5.34	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.76	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	5.10	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.64	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.90	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.75	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.86	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.30	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.61	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.12	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	5.31	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.24	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	5.37	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.60	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.08	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.46	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.64	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.56	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.92	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.30	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.83	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.19	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.33	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.26	13	PASS

Test Graphs

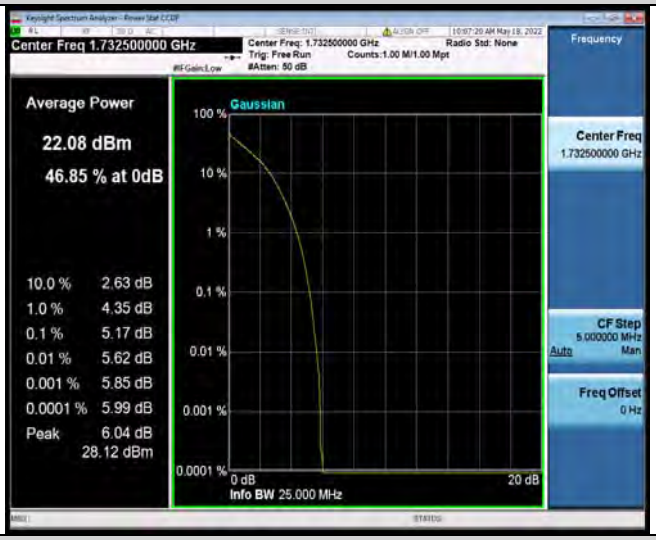
Band4-1.4MHz-QPSK-19957-1RB#0

Band4-1.4MHz-QPSK-19957-6RB#0

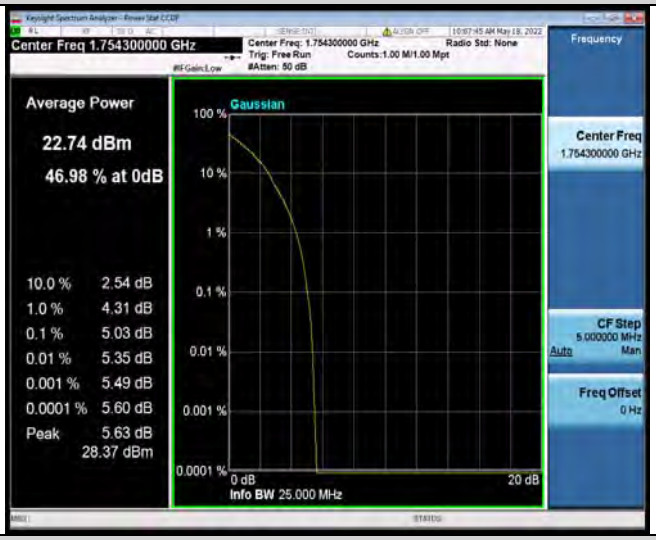


Band4-1.4MHz-QPSK-20175-1RB#0

Band4-1.4MHz-QPSK-20175-6RB#0

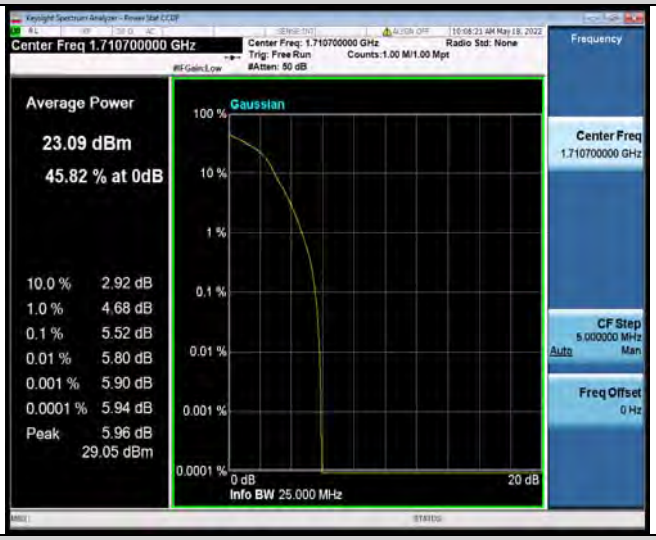


Band4-1.4MHz-QPSK-20393-1RB#0

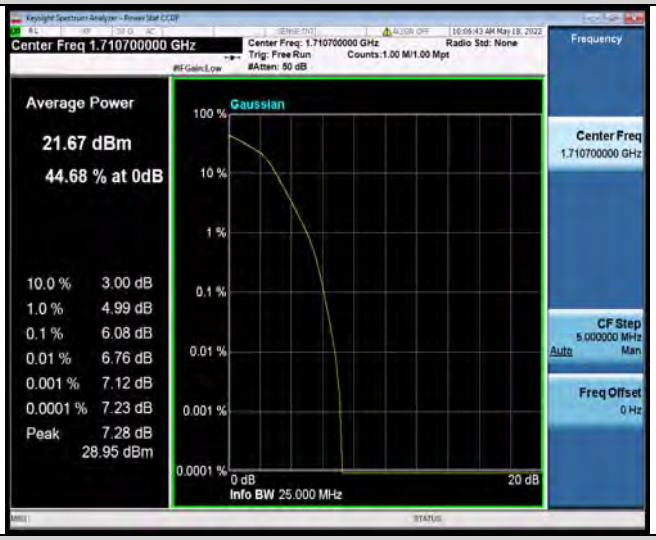


Band4-1.4MHz-QPSK-20393-6RB#0

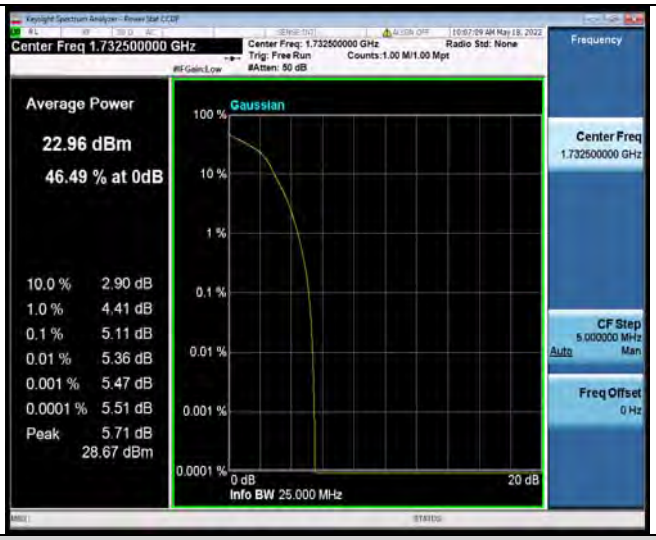
Band4-1.4MHz-16QAM-19957-1RB#0



Band4-1.4MHz-16QAM-19957-6RB#0



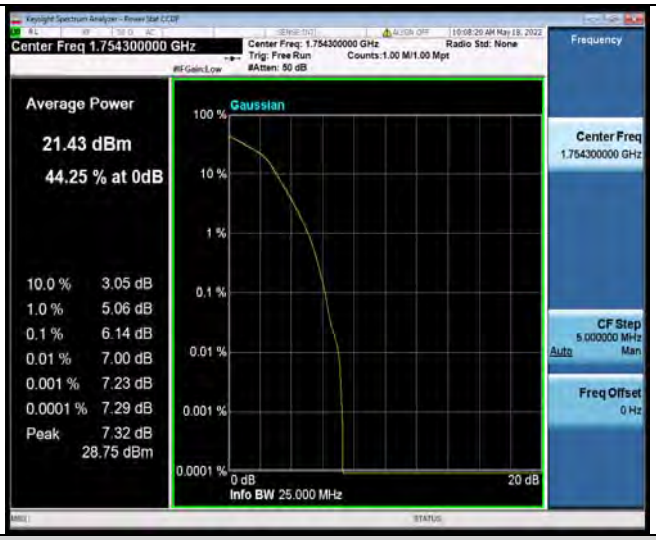
Band4-1.4MHz-16QAM-20175-1RB#0



Band4-1.4MHz-16QAM-20175-6RB#0

Band4-1.4MHz-16QAM-20393-1RB#0

Band4-1.4MHz-16QAM-20393-6RB#0

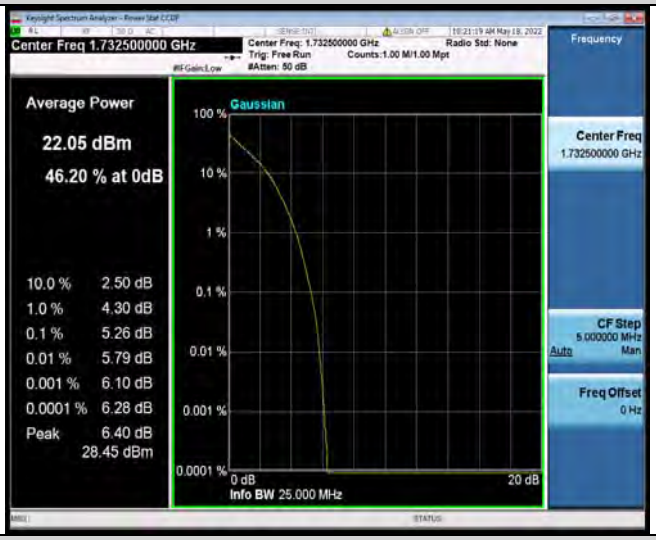


Band4-3MHz-QPSK-19965-1RB#0

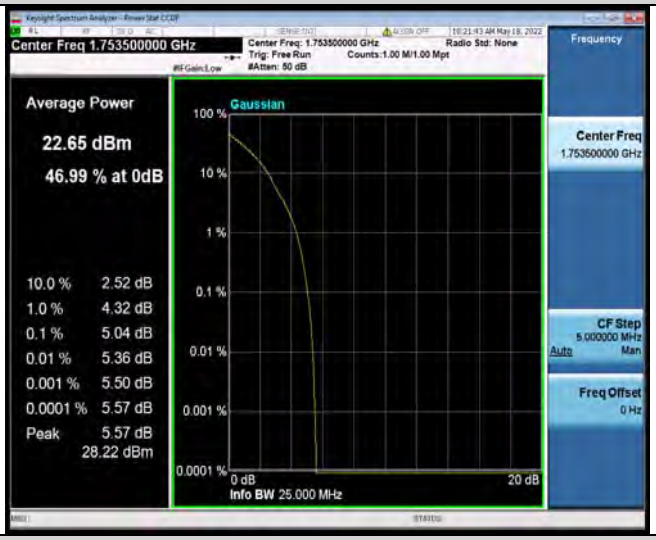
Band4-3MHz-QPSK-19965-15RB#0

Band4-3MHz-QPSK-20175-1RB#0

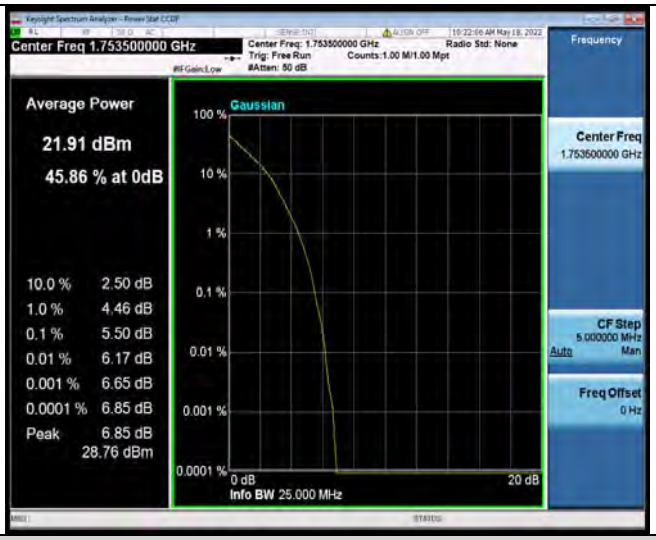
Band4-3MHz-QPSK-20175-15RB#0



Band4-3MHz-QPSK-20385-1RB#0



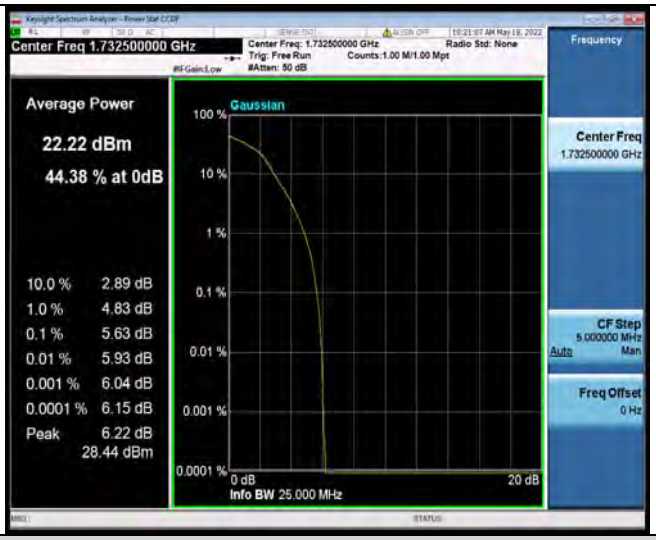
Band4-3MHz-QPSK-20385-15RB#0



Band4-3MHz-16QAM-19965-1RB#0

Band4-3MHz-16QAM-19965-15RB#0

Band4-3MHz-16QAM-20175-1RB#0



Band4-3MHz-16QAM-20175-15RB#0

Band4-3MHz-16QAM-20385-1RB#0

Band4-3MHz-16QAM-20385-15RB#0

Band4-5MHz-QPSK-19975-1RB#0

Band4-5MHz-QPSK-19975-25RB#0

Band4-5MHz-QPSK-20175-1RB#0

Band4-5MHz-QPSK-20175-25RB#0

Band4-5MHz-QPSK-20375-1RB#0

Band4-5MHz-QPSK-20375-25RB#0

Band4-5MHz-16QAM-19975-1RB#0

Band4-5MHz-16QAM-19975-25RB#0

Band4-5MHz-16QAM-20175-1RB#0

Band4-5MHz-16QAM-20175-25RB#0

Band4-5MHz-16QAM-20375-1RB#0

Band4-5MHz-16QAM-20375-25RB#0

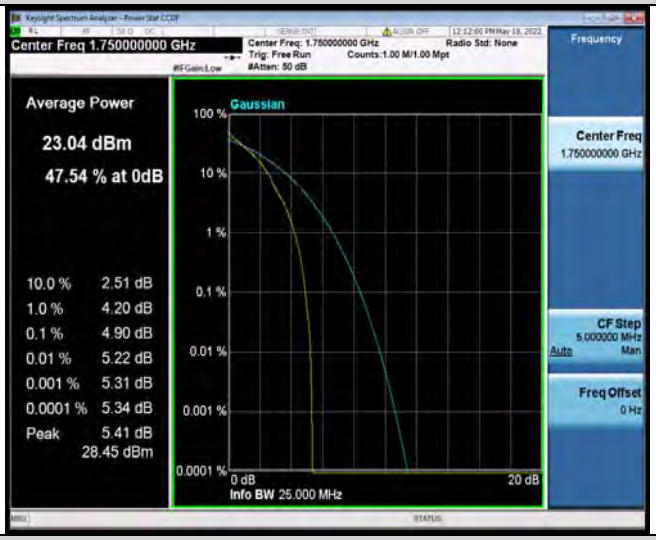
Band4-10MHz-QPSK-20000-1RB#0

Band4-10MHz-QPSK-20000-50RB#0

Band4-10MHz-QPSK-20175-1RB#0

Band4-10MHz-QPSK-20175-50RB#0

Band4-10MHz-QPSK-20350-1RB#0



Band4-10MHz-QPSK-20350-50RB#0

Band4-10MHz-16QAM-20000-1RB#0

Band4-10MHz-16QAM-20000-50RB#0

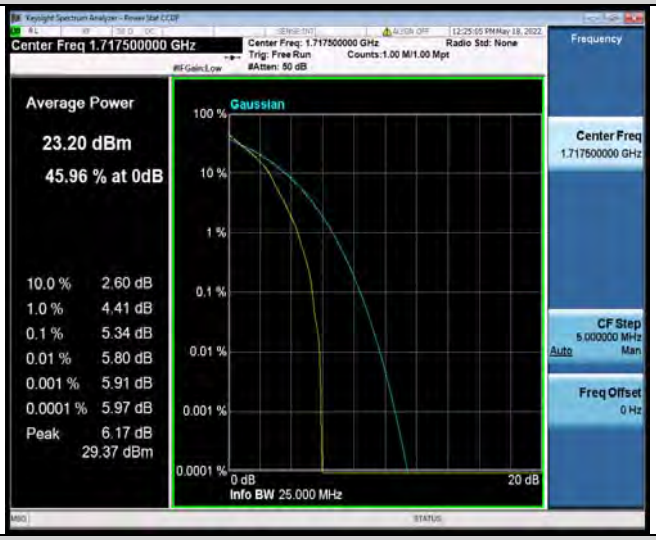
Band4-10MHz-16QAM-20175-1RB#0

Band4-10MHz-16QAM-20175-50RB#0

Band4-10MHz-16QAM-20350-1RB#0

Band4-10MHz-16QAM-20350-50RB#0

Band4-15MHz-QPSK-20025-1RB#0

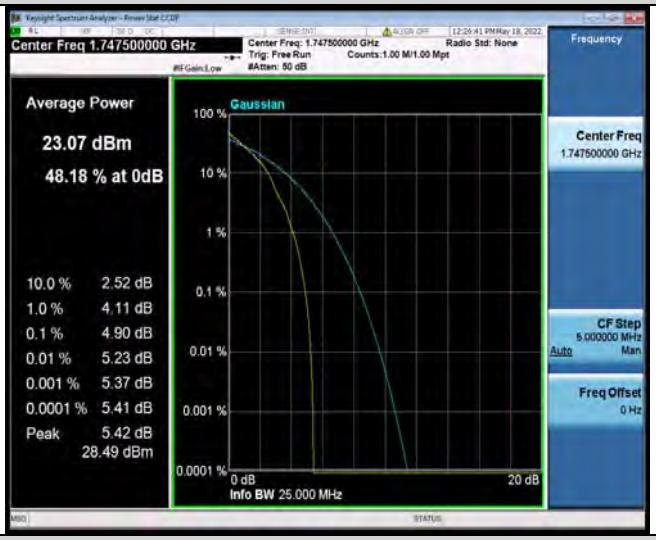


Band4-15MHz-QPSK-20025-75RB#0

Band4-15MHz-QPSK-20175-1RB#0

Band4-15MHz-QPSK-20175-75RB#0

Band4-15MHz-QPSK-20325-1RB#0



Band4-15MHz-QPSK-20325-75RB#0

Band4-15MHz-16QAM-20025-1RB#0

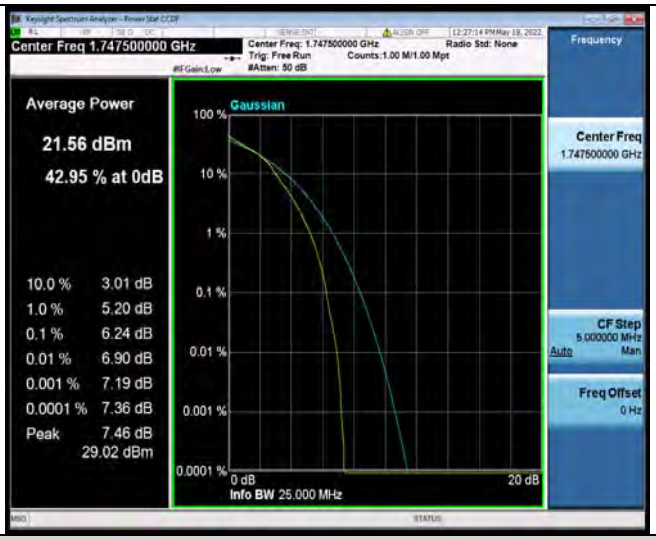
Band4-15MHz-16QAM-20025-75RB#0

Band4-15MHz-16QAM-20175-1RB#0

Band4-15MHz-16QAM-20175-75RB#0

Band4-15MHz-16QAM-20325-1RB#0

Band4-15MHz-16QAM-20325-75RB#0



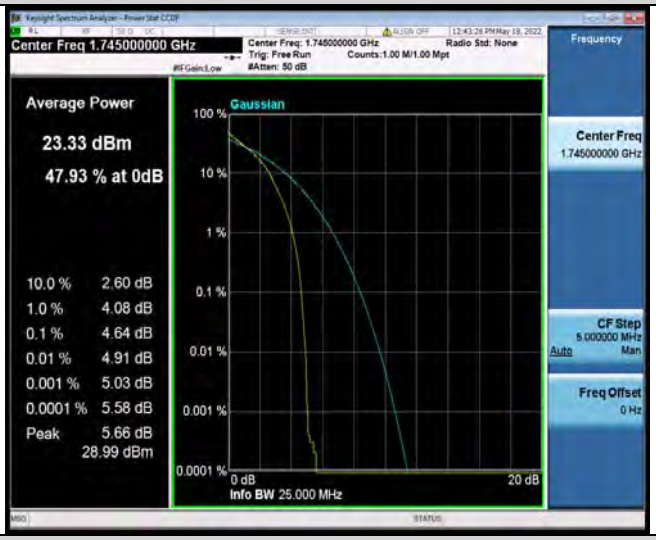
Band4-20MHz-QPSK-20050-1RB#0

Band4-20MHz-QPSK-20050-100RB#0

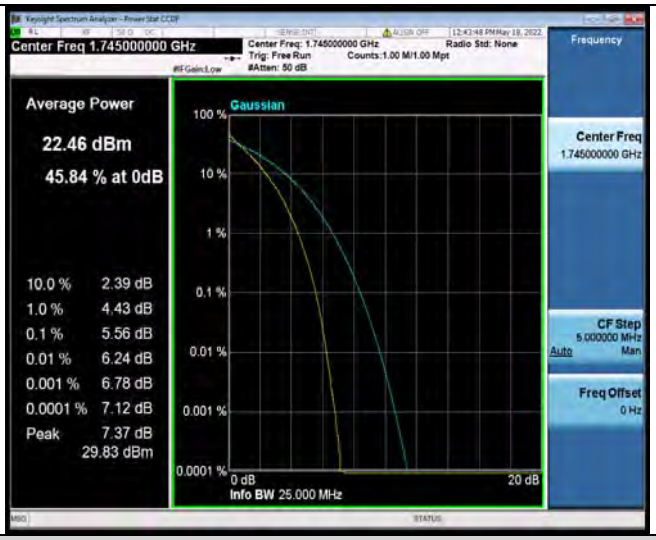
Band4-20MHz-QPSK-20175-1RB#0

Band4-20MHz-QPSK-20175-100RB#0

Band4-20MHz-QPSK-20300-1RB#0



Band4-20MHz-QPSK-20300-100RB#0

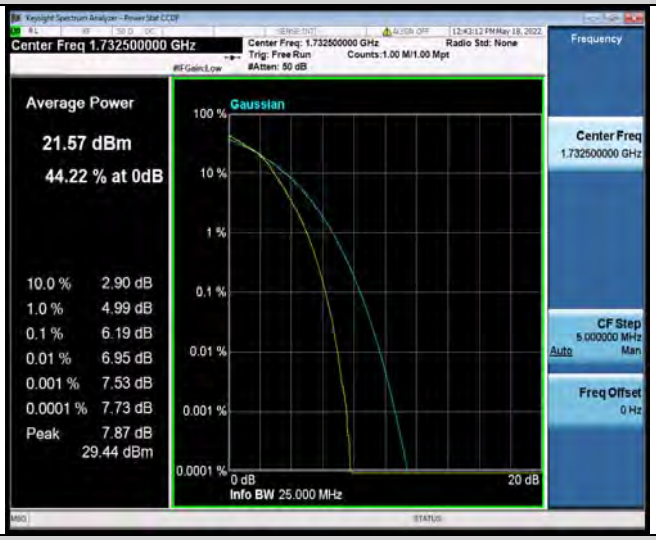


Band4-20MHz-16QAM-20050-1RB#0

Band4-20MHz-16QAM-20050-100RB#0

Band4-20MHz-16QAM-20175-1RB#0

Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-1RB#0

Band4-20MHz-16QAM-20300-100RB#0

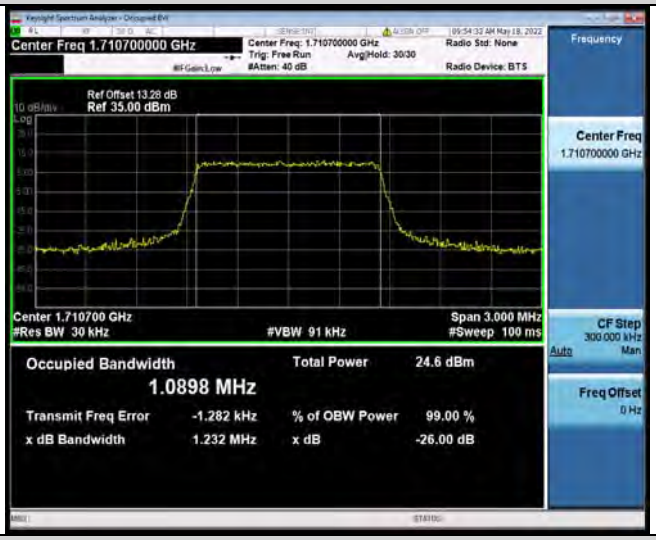
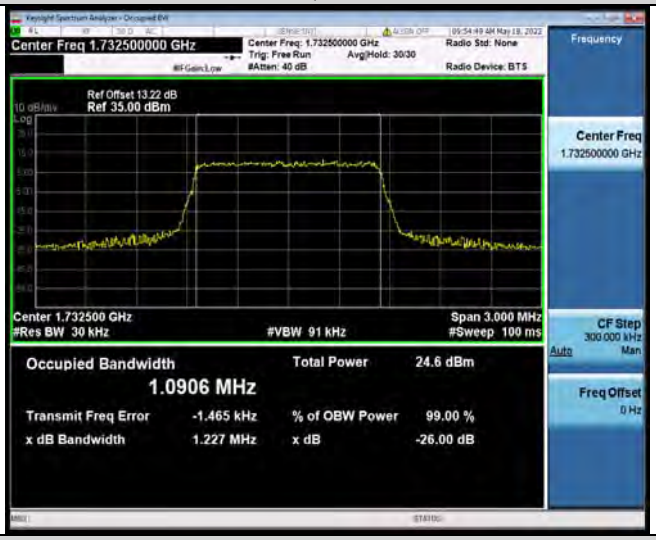

Center Freq 1.745000000 GHz
Center Freq: 1.745000000 GHz
Trig: Free Run
#Atten: 50 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
21.62 dBm
44.27 % at 0dB
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
10.0 % 2.91 dB
1.0 % 5.03 dB
0.1 % 6.26 dB
0.01 % 7.00 dB
0.001 % 7.55 dB
0.0001 % 7.99 dB
Peak 8.01 dB
29.63 dBm
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
1.745000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

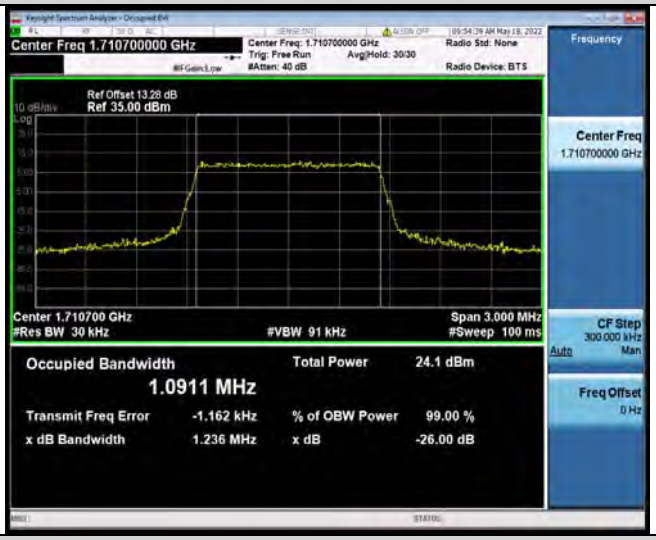
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0898	1.232	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0906	1.227	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0957	1.232	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0911	1.236	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0913	1.236	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0900	1.236	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6938	2.953	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6941	2.968	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7019	2.958	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6902	2.968	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6935	2.962	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6936	2.975	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4962	4.887	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4977	4.874	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4936	4.882	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5009	4.886	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5019	4.871	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4932	4.909	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9801	9.560	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9803	9.580	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9921	9.607	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9738	9.586	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9709	9.594	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9857	9.568	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.35	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.460	14.33	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.465	14.30	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.454	14.33	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.459	14.30	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.454	14.33	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.952	18.99	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.934	19.02	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.964	19.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.957	19.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.955	19.06	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.967	19.03	PASS

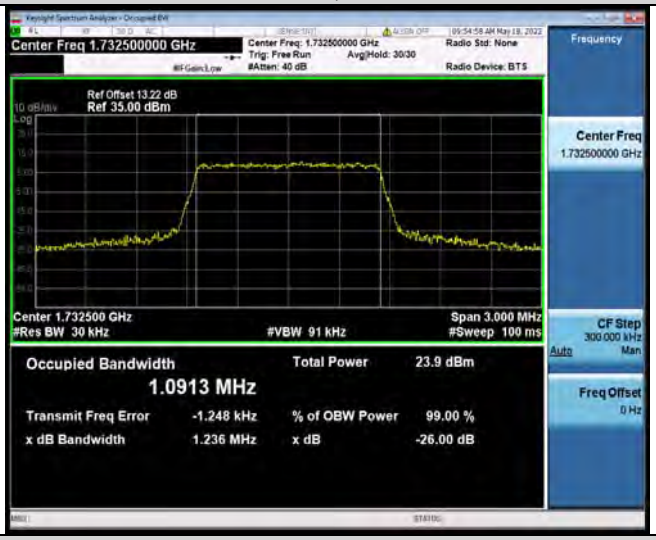
Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0

Band4-1.4MHz-QPSK-20175-6RB#0

Band4-1.4MHz-QPSK-20393-6RB#0

Band4-1.4MHz-16QAM-19957-6RB#0

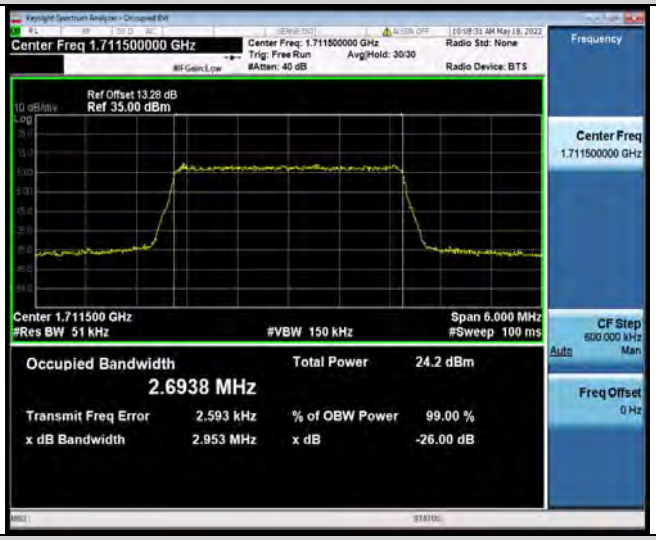


Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-6RB#0

Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20175-15RB#0

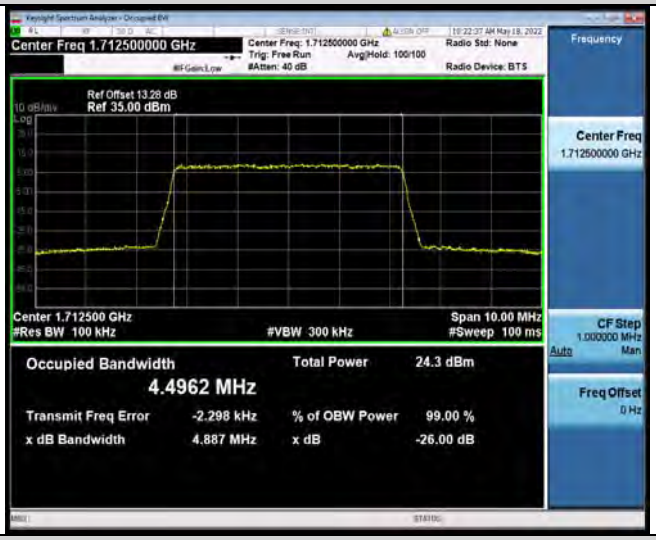
Band4-3MHz-QPSK-20385-15RB#0

Band4-3MHz-16QAM-19965-15RB#0

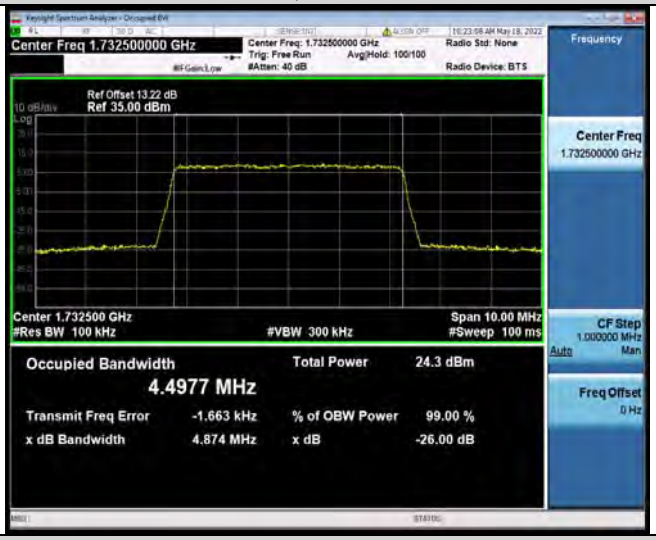
Band4-3MHz-16QAM-20175-15RB#0

Band4-3MHz-16QAM-20385-15RB#0

Band4-5MHz-QPSK-19975-25RB#0

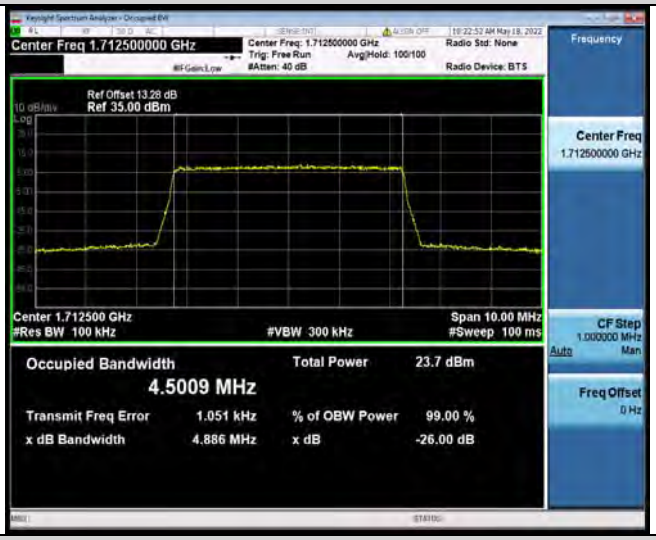


Band4-5MHz-QPSK-20175-25RB#0

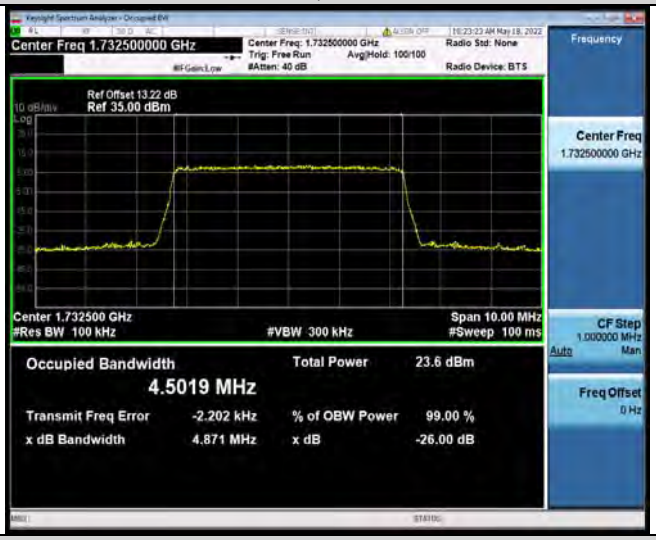


Band4-5MHz-QPSK-20375-25RB#0

Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20175-25RB#0



Band4-5MHz-16QAM-20375-25RB#0

Band4-10MHz-QPSK-20000-50RB#0

Band4-10MHz-QPSK-20175-50RB#0

Band4-10MHz-QPSK-20350-50RB#0

Band4-10MHz-16QAM-20000-50RB#0

Band4-10MHz-16QAM-20175-50RB#0

Band4-10MHz-16QAM-20350-50RB#0

Band4-15MHz-QPSK-20025-75RB#0

Band4-15MHz-QPSK-20175-75RB#0

Band4-15MHz-QPSK-20325-75RB#0

Band4-15MHz-16QAM-20025-75RB#0

Band4-15MHz-16QAM-20175-75RB#0

Band4-15MHz-16QAM-20325-75RB#0

Band4-20MHz-QPSK-20050-100RB#0

Band4-20MHz-QPSK-20175-100RB#0

Band4-20MHz-QPSK-20300-100RB#0

Band4-20MHz-16QAM-20050-100RB#0

Band4-20MHz-16QAM-20175-100RB#0

Band4-20MHz-16QAM-20300-100RB#0


Center Freq 1.745000000 GHz
Center Freq: 1.745000000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 13.18 dB
10 dB/div
Ref 35.00 dBm
Log
Center Freq
1.745000000 GHz
Center 1.745 GHz
Res BW 390 kHz
#VBW 1.2 MHz
Span 40 MHz
#Sweep 100 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.967 MHz
Total Power
22.2 dBm
Freq Offset
0 Hz
Transmit Freq Error
-13.188 kHz
OBW Power
99.00 %
x dB Bandwidth
19.03 MHz
x dB
-26.00 dB

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-16.63	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-25.11	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-20.83	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-26.96	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-17.50	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-25.13	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-17.95	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-27.57	PASS
Band4	3MHz	QPSK	19965	1RB#0	-16.46	PASS
Band4	3MHz	QPSK	19965	15RB#0	-18.17	PASS
Band4	3MHz	QPSK	20385	1RB#14	-16.64	PASS
Band4	3MHz	QPSK	20385	15RB#0	-19.42	PASS
Band4	3MHz	16QAM	19965	1RB#0	-16.03	PASS
Band4	3MHz	16QAM	19965	15RB#0	-19.28	PASS
Band4	3MHz	16QAM	20385	1RB#14	-16.17	PASS
Band4	3MHz	16QAM	20385	15RB#0	-19.97	PASS
Band4	5MHz	QPSK	19975	1RB#0	-22.48	PASS
Band4	5MHz	QPSK	19975	25RB#0	-22.65	PASS
Band4	5MHz	QPSK	20375	1RB#24	-24.37	PASS
Band4	5MHz	QPSK	20375	25RB#0	-23.83	PASS
Band4	5MHz	16QAM	19975	1RB#0	-23.20	PASS
Band4	5MHz	16QAM	19975	25RB#0	-23.88	PASS
Band4	5MHz	16QAM	20375	1RB#24	-24.94	PASS
Band4	5MHz	16QAM	20375	25RB#0	-22.50	PASS
Band4	10MHz	QPSK	20000	1RB#0	-15.60	PASS
Band4	10MHz	QPSK	20000	50RB#0	-26.76	PASS
Band4	10MHz	QPSK	20350	1RB#49	-15.42	PASS
Band4	10MHz	QPSK	20350	50RB#0	-26.74	PASS
Band4	10MHz	16QAM	20000	1RB#0	-15.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	-27.43	PASS
Band4	10MHz	16QAM	20350	1RB#49	-14.96	PASS
Band4	10MHz	16QAM	20350	50RB#0	-26.44	PASS
Band4	15MHz	QPSK	20025	1RB#0	-14.23	PASS
Band4	15MHz	QPSK	20025	75RB#0	-27.36	PASS
Band4	15MHz	QPSK	20325	1RB#74	-15.04	PASS
Band4	15MHz	QPSK	20325	75RB#0	-26.45	PASS
Band4	15MHz	16QAM	20025	1RB#0	-14.31	PASS
Band4	15MHz	16QAM	20025	75RB#0	-27.10	PASS
Band4	15MHz	16QAM	20325	1RB#74	-14.77	PASS
Band4	15MHz	16QAM	20325	75RB#0	-27.07	PASS
Band4	20MHz	QPSK	20050	1RB#0	-17.58	PASS
Band4	20MHz	QPSK	20050	100RB#0	-29.11	PASS
Band4	20MHz	QPSK	20300	1RB#99	-17.57	PASS
Band4	20MHz	QPSK	20300	100RB#0	-28.91	PASS

Band4	20MHz	16QAM	20050	1RB#0	-16.19	PASS
Band4	20MHz	16QAM	20050	100RB#0	-29.20	PASS
Band4	20MHz	16QAM	20300	1RB#99	-17.17	PASS
Band4	20MHz	16QAM	20300	100RB#0	-29.90	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0

Band4-1.4MHz-QPSK-19957-6RB#0

Band4-1.4MHz-QPSK-20393-1RB#5

Band4-1.4MHz-QPSK-20393-6RB#0

Band4-1.4MHz-16QAM-19957-1RB#0

Band4-1.4MHz-16QAM-19957-6RB#0

Band4-1.4MHz-16QAM-20393-1RB#5

Band4-1.4MHz-16QAM-20393-6RB#0

Band4-3MHz-QPSK-19965-1RB#0

Band4-3MHz-QPSK-19965-15RB#0

Band4-3MHz-QPSK-20385-1RB#14

Band4-3MHz-QPSK-20385-15RB#0

Band4-3MHz-16QAM-19965-1RB#0

Band4-3MHz-16QAM-19965-15RB#0

Band4-3MHz-16QAM-20385-1RB#14

Band4-3MHz-16QAM-20385-15RB#0

Band4-5MHz-QPSK-19975-1RB#0

Band4-5MHz-QPSK-19975-25RB#0

Band4-5MHz-QPSK-20375-1RB#24

Band4-5MHz-QPSK-20375-25RB#0

Band4-5MHz-16QAM-19975-1RB#0

Band4-5MHz-16QAM-19975-25RB#0

Band4-5MHz-16QAM-20375-1RB#24

Band4-5MHz-16QAM-20375-25RB#0

Band4-10MHz-QPSK-20000-1RB#0

Band4-10MHz-QPSK-20000-50RB#0

Band4-10MHz-QPSK-20350-1RB#49

Band4-10MHz-QPSK-20350-50RB#0

Band4-10MHz-16QAM-20000-1RB#0

Band4-10MHz-16QAM-20000-50RB#0

Band4-10MHz-16QAM-20350-1RB#49

Band4-10MHz-16QAM-20350-50RB#0

Band4-15MHz-QPSK-20025-1RB#0

Band4-15MHz-QPSK-20025-75RB#0

Band4-15MHz-QPSK-20325-1RB#74

Band4-15MHz-QPSK-20325-75RB#0

Band4-15MHz-16QAM-20025-1RB#0

Band4-15MHz-16QAM-20025-75RB#0

Band4-15MHz-16QAM-20325-1RB#74

Band4-15MHz-16QAM-20325-75RB#0

Band4-20MHz-QPSK-20050-1RB#0

Band4-20MHz-QPSK-20050-100RB#0

Band4-20MHz-QPSK-20300-1RB#99

Band4-20MHz-QPSK-20300-100RB#0

Band4-20MHz-16QAM-20050-1RB#0

Band4-20MHz-16QAM-20050-100RB#0

Band4-20MHz-16QAM-20300-1RB#99

Band4-20MHz-16QAM-20300-100RB#0


Center Freq 1.755000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.18 dB
10 dB/div
Ref 35.00 dBm
Mkr1 1.755 017 GHz
-29.897 dBm
Center 1.755000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
1.755000000 GHz
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

CONDUCTED SPURIOUS EMISSION

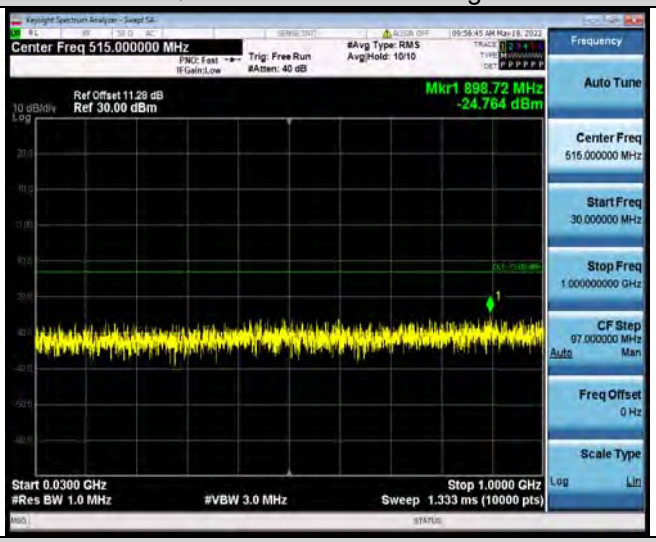
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	Range1:30~1000MHz	-24.76	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range2:1000~20000MHz	-26.15	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-25.18	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-25.28	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range1:30~1000MHz	-25.69	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range2:1000~20000MHz	-25.25	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range1:30~1000MHz	-25.69	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range2:1000~20000MHz	-25.81	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-24.61	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.62	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range1:30~1000MHz	-24.65	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range2:1000~20000MHz	-25.6	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range1:30~1000MHz	-23.83	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range2:1000~20000MHz	-25.86	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-24.24	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-26.11	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range1:30~1000MHz	-25.54	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range2:1000~20000MHz	-26.16	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range1:30~1000MHz	-25.13	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range2:1000~20000MHz	-25.87	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-24.99	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.61	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range1:30~1000MHz	-24.37	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range2:1000~20000MHz	-24.62	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range1:30~1000MHz	-25.43	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range2:1000~20000MHz	-26.28	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-25.27	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-26.24	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range1:30~1000MHz	-24.86	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range2:1000~20000MHz	-25.86	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range1:30~1000MHz	-24.1	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range2:1000~20000MHz	-26.31	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-25.18	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-25.5	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range1:30~1000MHz	-24.82	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range2:1000~20000MHz	-25.59	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range1:30~1000MHz	-30.89	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range2:1000~20000MHz	-33.63	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-31	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-33.28	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range1:30~1000MHz	-30.98	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range2:1000~20000MHz	-33.86	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range1:30~1000MHz	-29.59	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range2:1000~20000MHz	-33.61	PASS

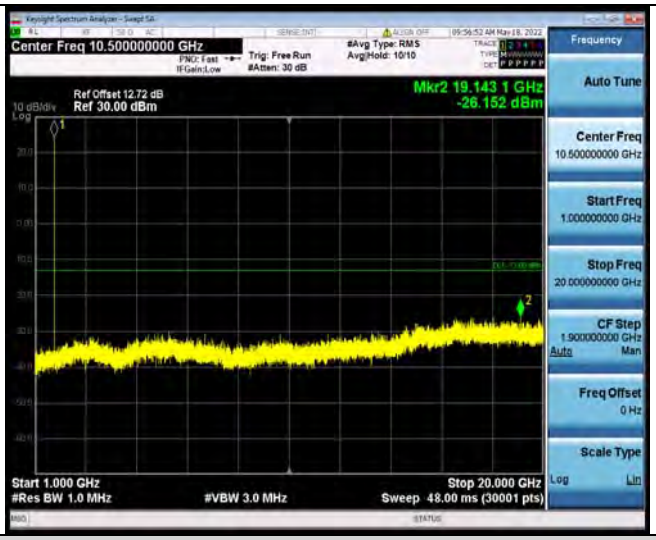
Band4	10MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-31.39	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-33.12	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range1:30~1000MHz	-31.75	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range2:1000~20000MHz	-33.15	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range1:30~1000MHz	-31.28	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range2:1000~20000MHz	-34.06	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-30.99	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-33.96	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range1:30~1000MHz	-31	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range2:1000~20000MHz	-34.04	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range1:30~1000MHz	-31.11	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range2:1000~20000MHz	-33.8	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-30.83	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-33.32	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range1:30~1000MHz	-31.16	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range2:1000~20000MHz	-33.81	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-31.48	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~20000MHz	-33.59	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-30.14	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-33.54	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-30.98	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~20000MHz	-33.95	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-31.3	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~20000MHz	-34.36	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-31.47	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-33.42	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-30.66	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~20000MHz	-33.98	PASS

Test Graphs

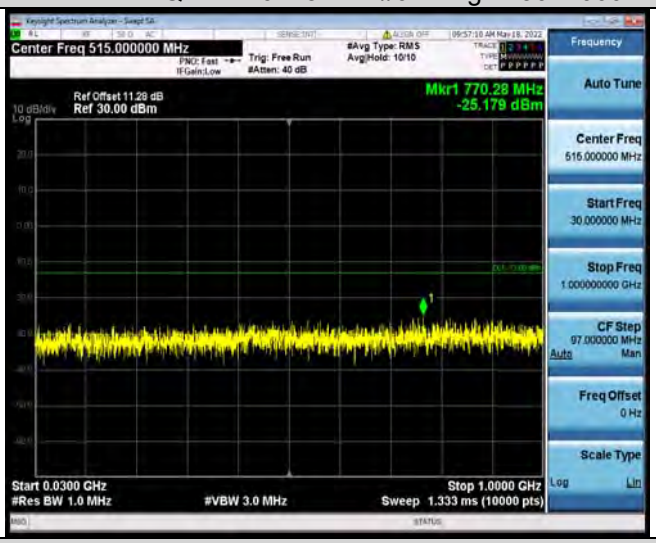
Band4-1.4MHz-QPSK-19957-1RB#0-Range1:30~1000MHz



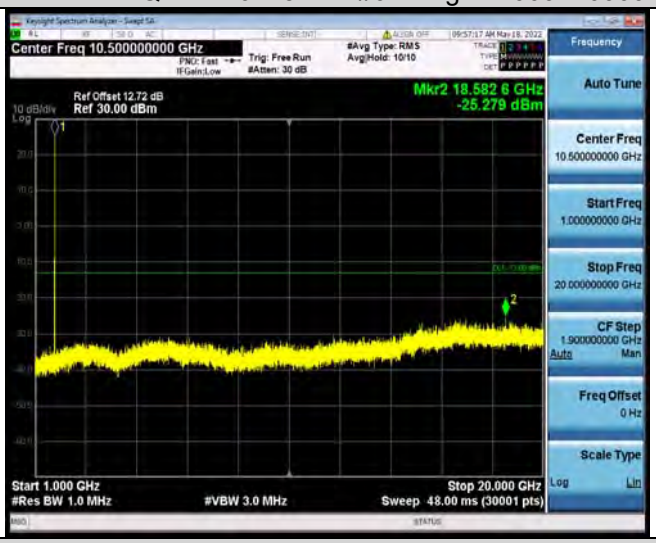
Band4-1.4MHz-QPSK-19957-1RB#0-Range2:1000~20000MHz



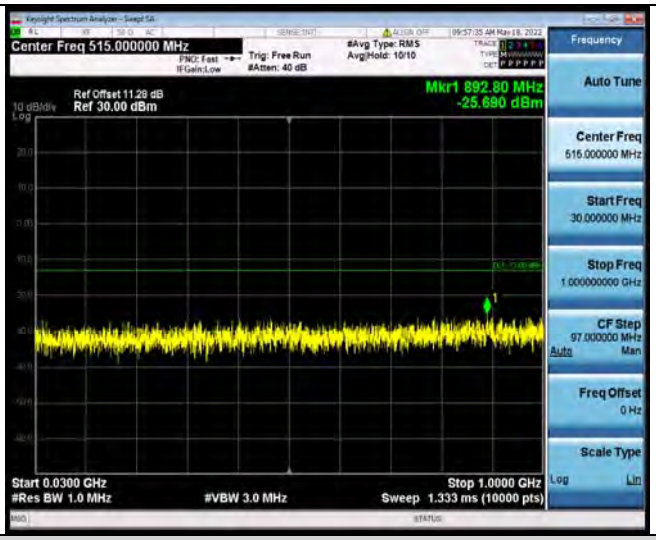
Band4-1.4MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



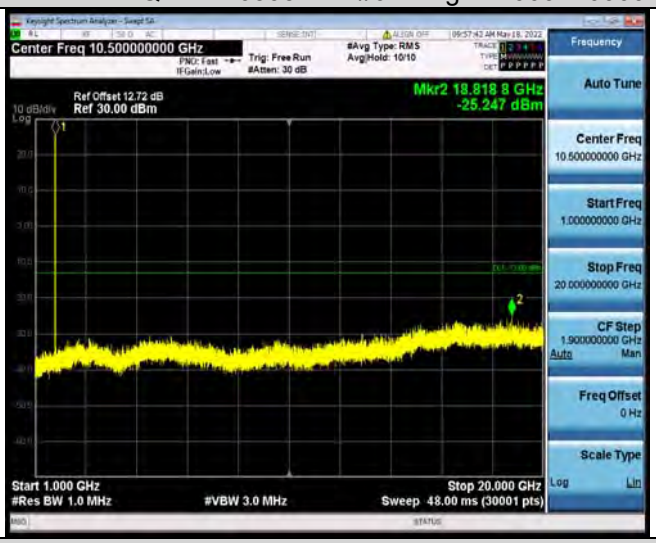
Band4-1.4MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



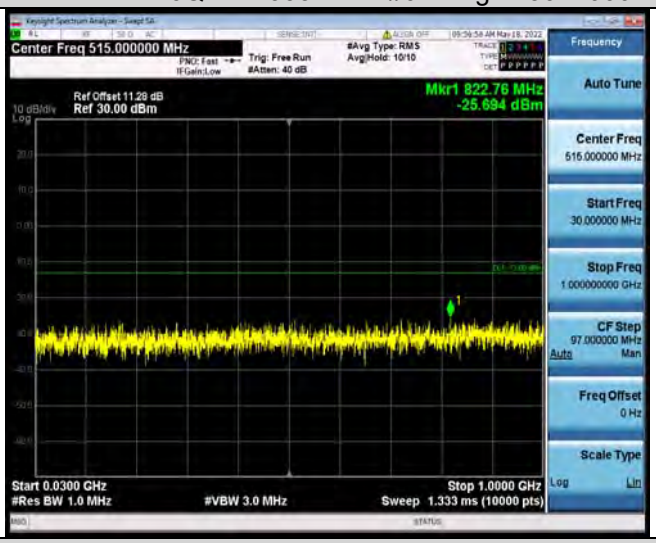
Band4-1.4MHz-QPSK-20393-1RB#0-Range1:30~1000MHz



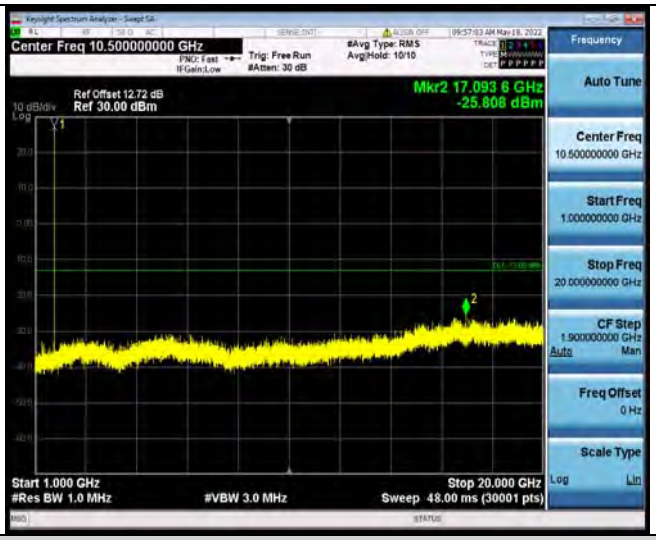
Band4-1.4MHz-QPSK-20393-1RB#0-Range2:1000~20000MHz



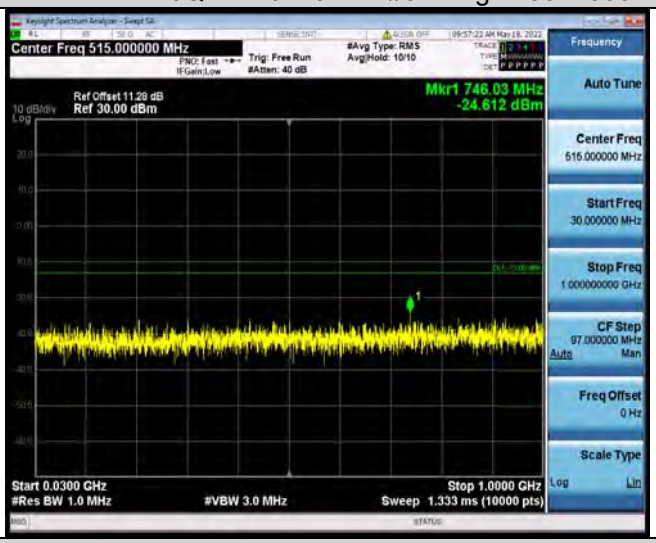
Band4-1.4MHz-16QAM-19957-1RB#0-Range1:30~1000MHz



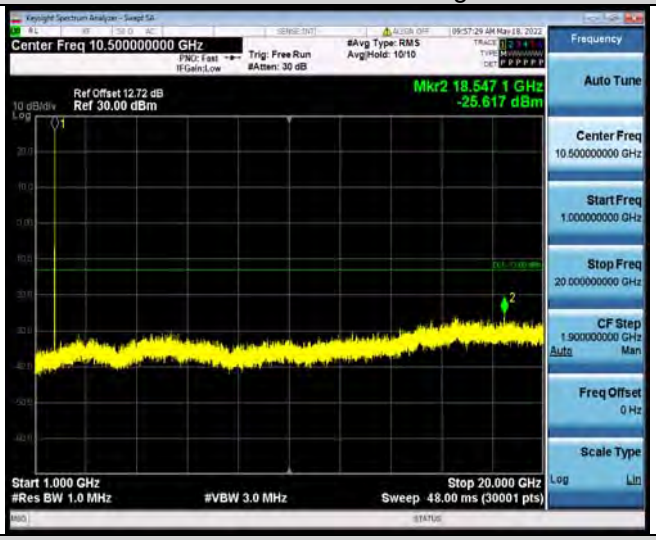
Band4-1.4MHz-16QAM-19957-1RB#0-Range2:1000~20000MHz



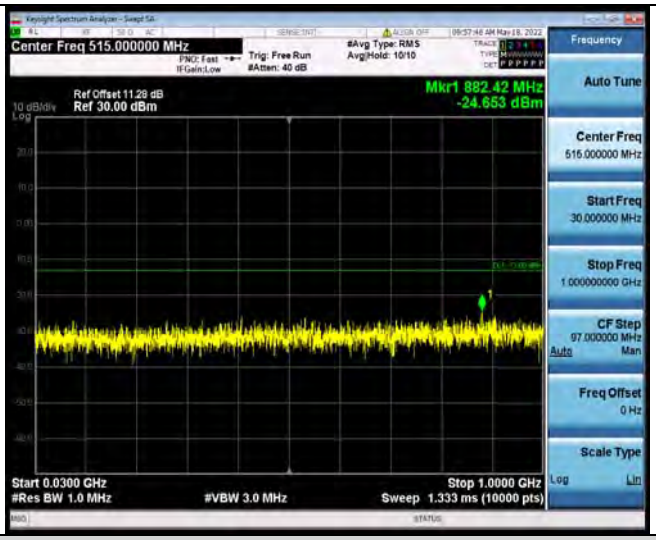
Band4-1.4MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



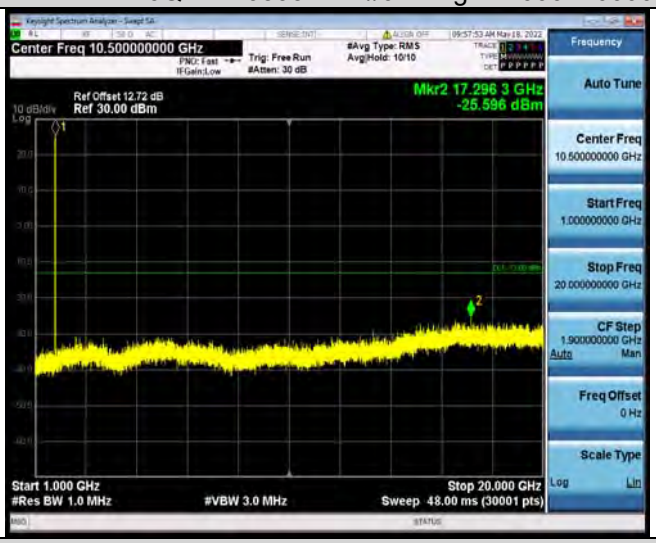
Band4-1.4MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



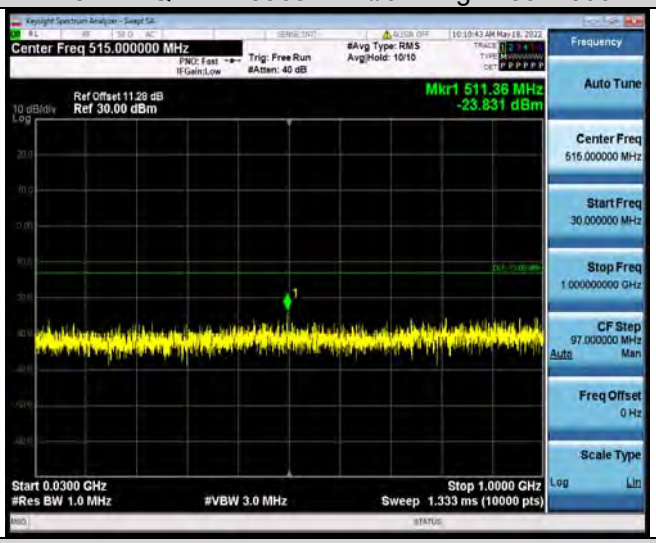
Band4-1.4MHz-16QAM-20393-1RB#0-Range1:30~1000MHz



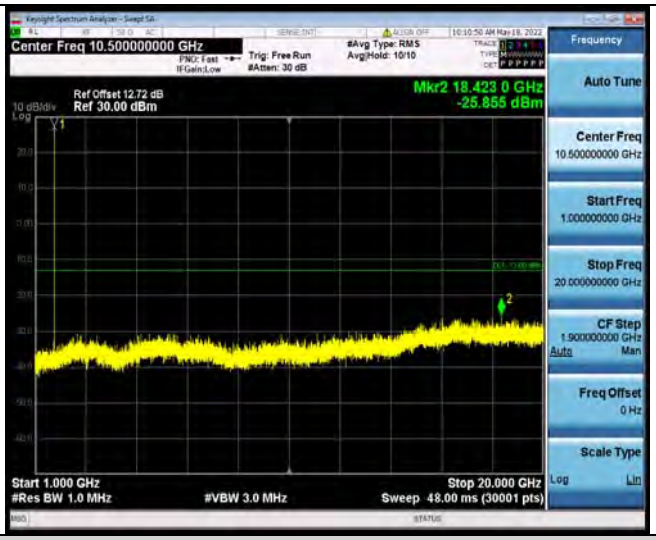
Band4-1.4MHz-16QAM-20393-1RB#0-Range2:1000~20000MHz



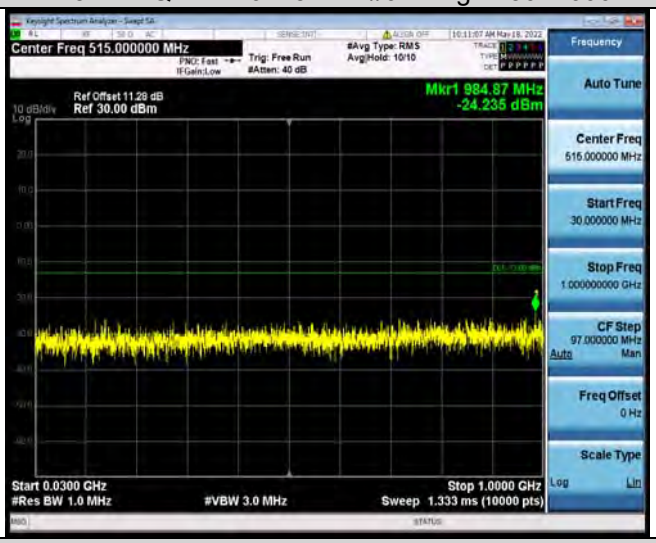
Band4-3MHz-QPSK-19965-1RB#0-Range1:30~1000MHz



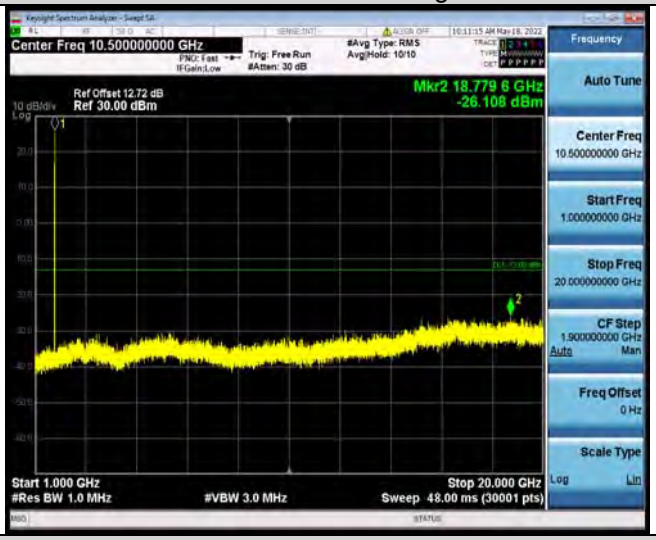
Band4-3MHz-QPSK-19965-1RB#0-Range2:1000~20000MHz



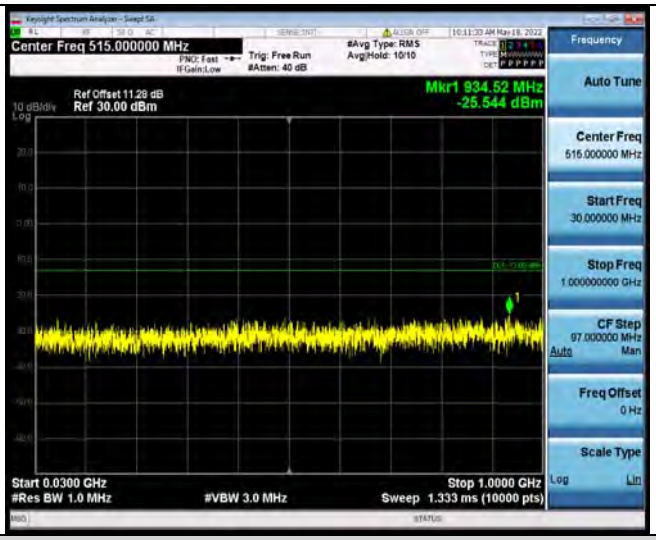
Band4-3MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Band4-3MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

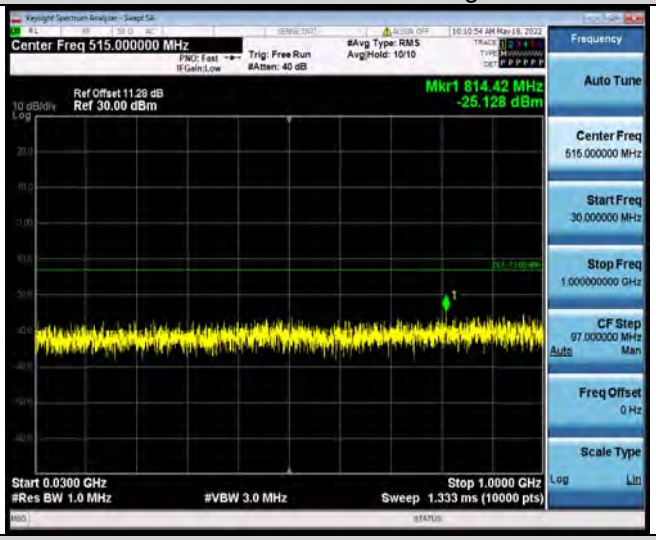


Band4-3MHz-QPSK-20385-1RB#0-Range1:30~1000MHz

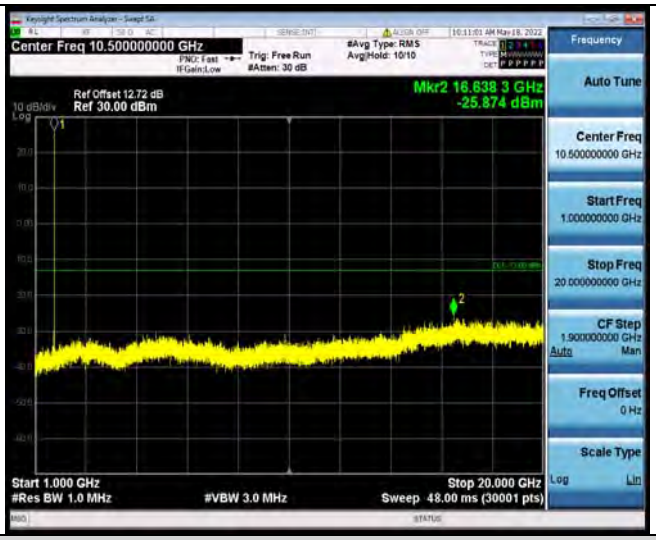


Band4-3MHz-QPSK-20385-1RB#0-Range2:1000~20000MHz

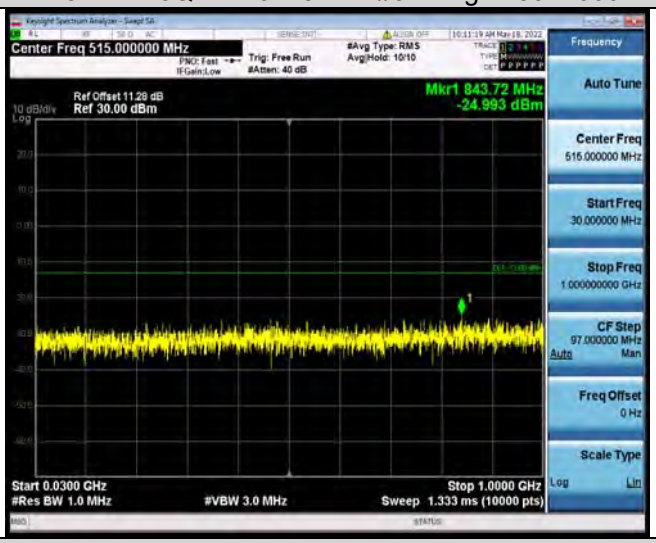
Band4-3MHz-16QAM-19965-1RB#0-Range1:30~1000MHz



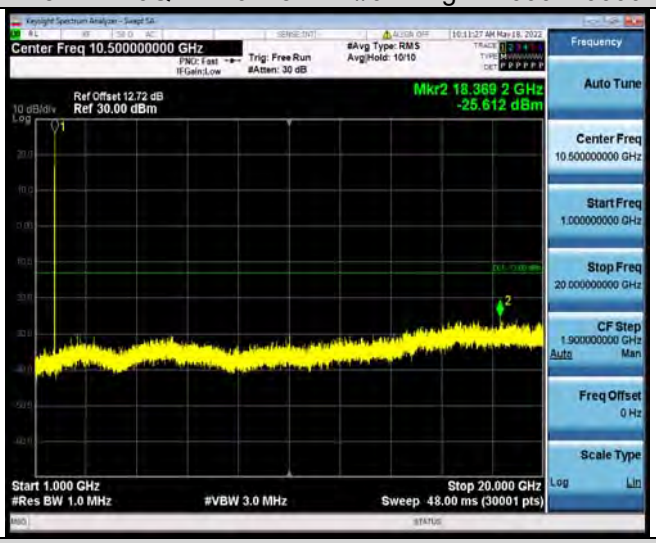
Band4-3MHz-16QAM-19965-1RB#0-Range2:1000~20000MHz



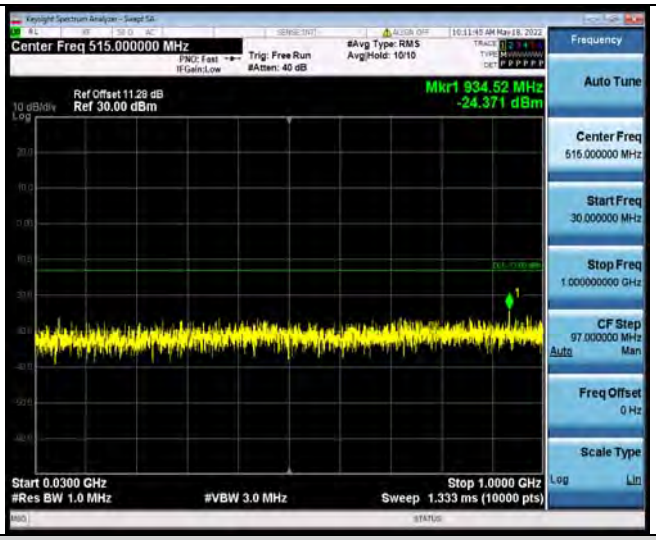
Band4-3MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



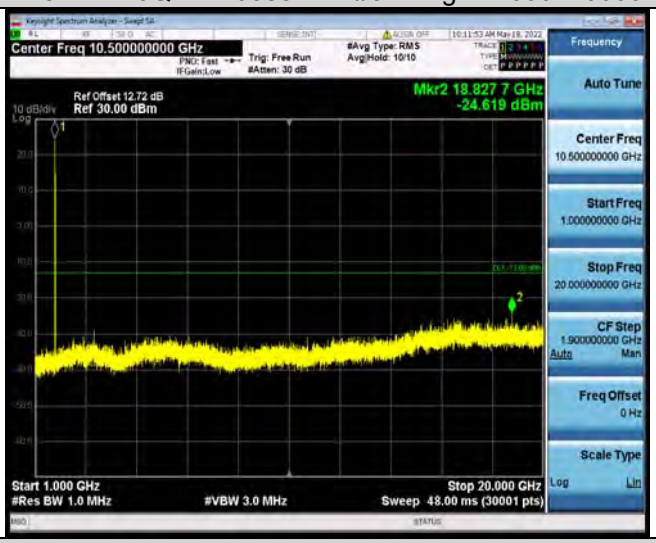
Band4-3MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



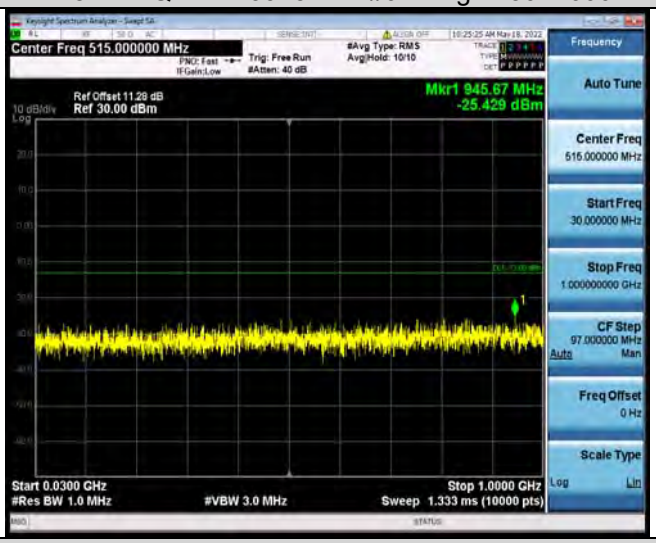
Band4-3MHz-16QAM-20385-1RB#0-Range1:30~1000MHz



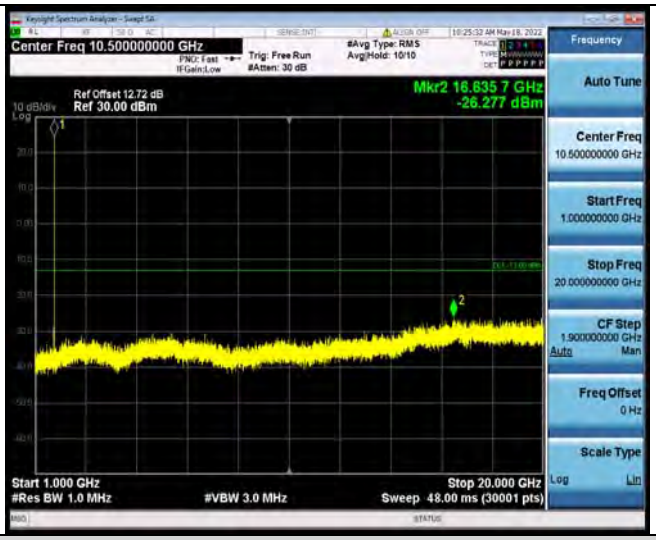
Band4-3MHz-16QAM-20385-1RB#0-Range2:1000~20000MHz



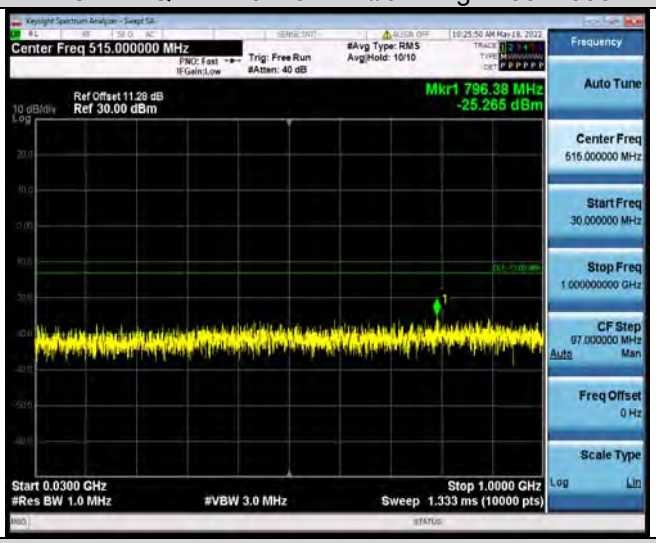
Band4-5MHz-QPSK-19975-1RB#0-Range1:30~1000MHz



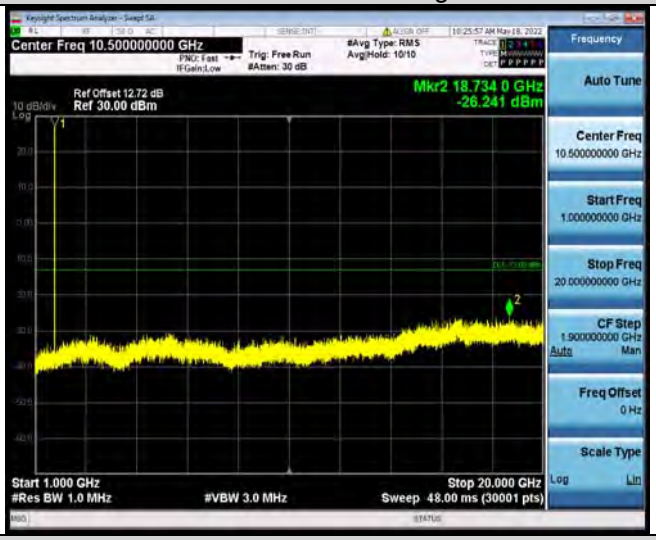
Band4-5MHz-QPSK-19975-1RB#0-Range2:1000~20000MHz



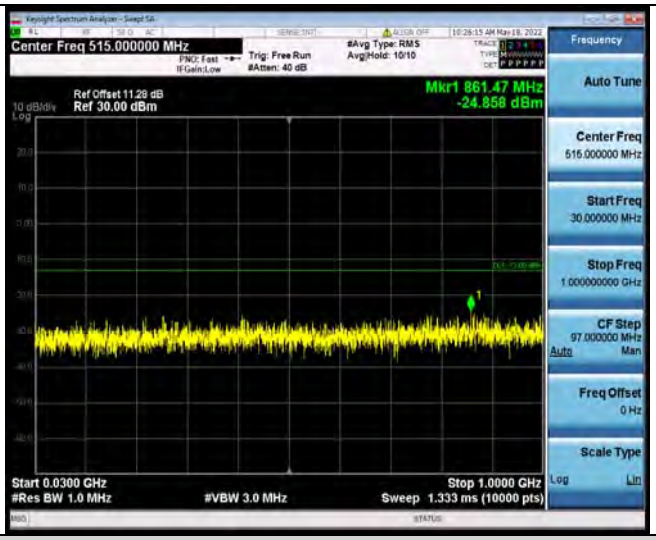
Band4-5MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



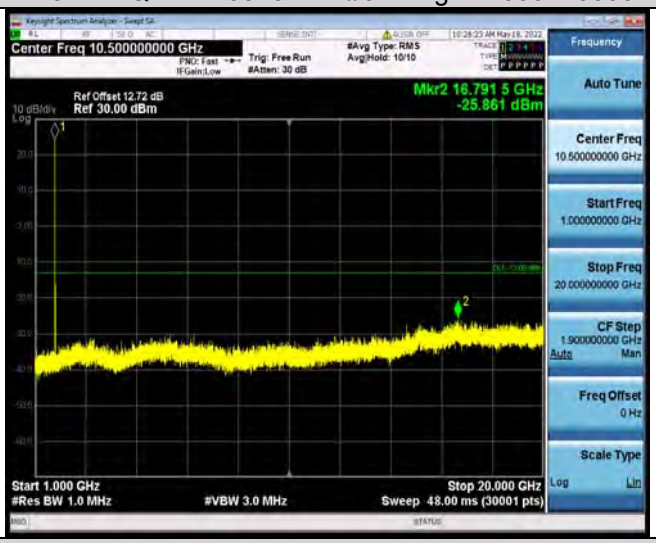
Band4-5MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



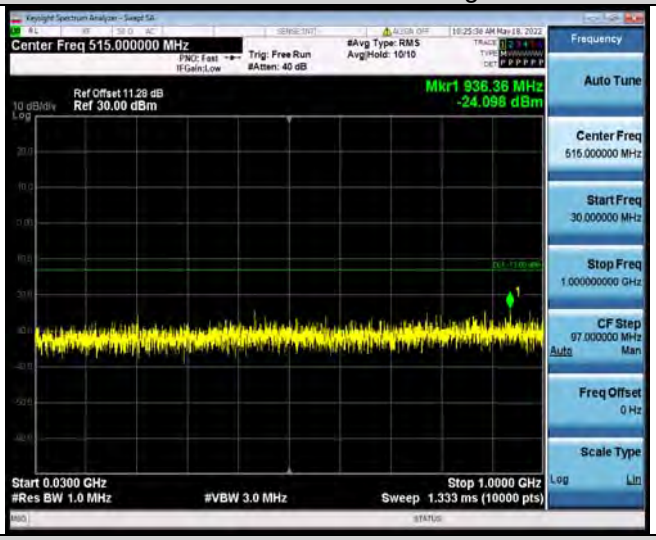
Band4-5MHz-QPSK-20375-1RB#0-Range1:30~1000MHz



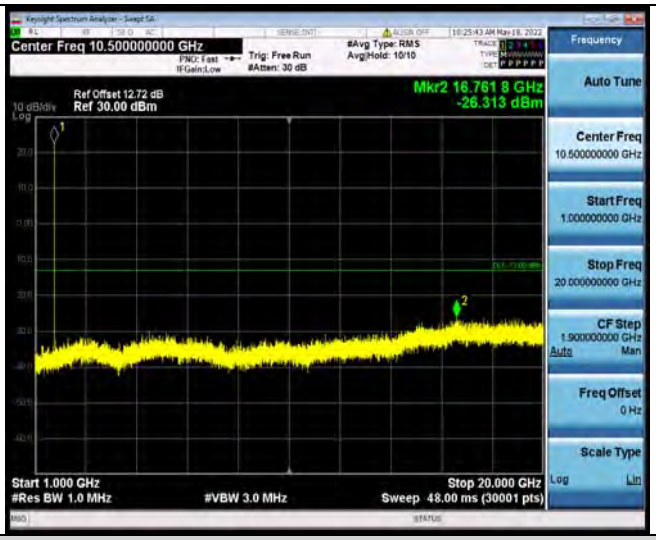
Band4-5MHz-QPSK-20375-1RB#0-Range2:1000~20000MHz



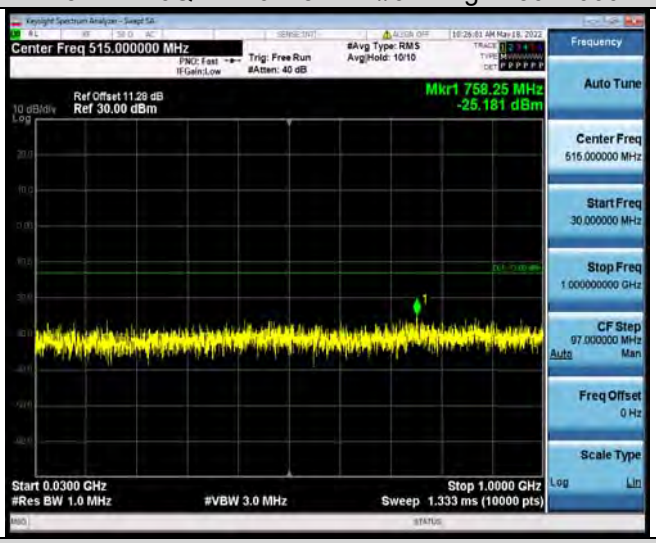
Band4-5MHz-16QAM-19975-1RB#0-Range1:30~1000MHz



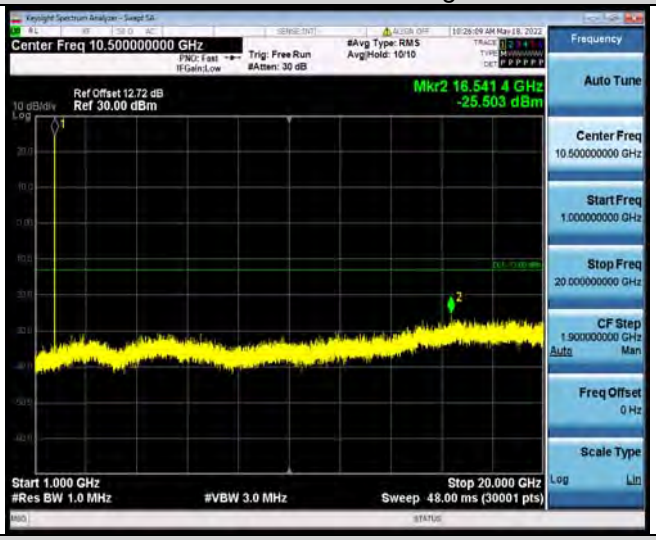
Band4-5MHz-16QAM-19975-1RB#0-Range2:1000~20000MHz



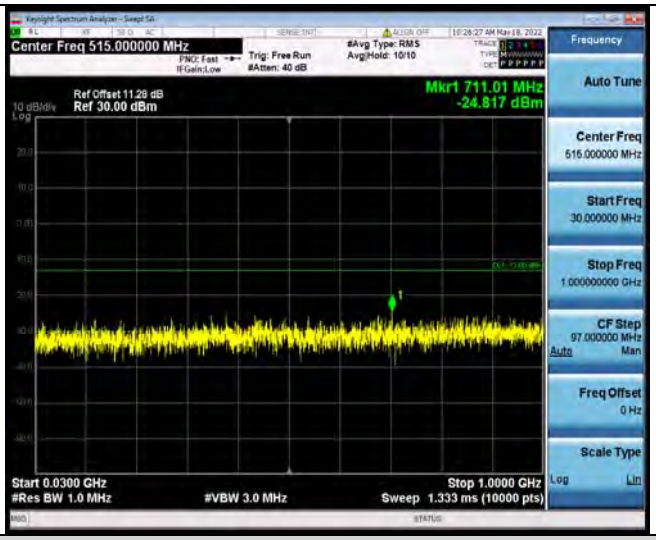
Band4-5MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



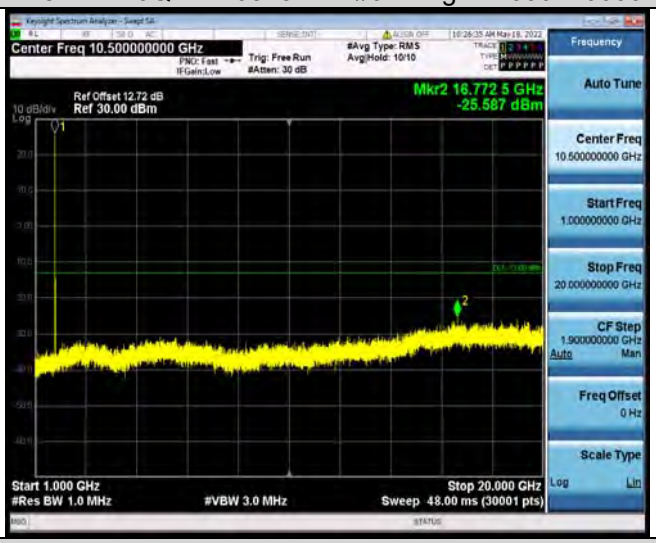
Band4-5MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



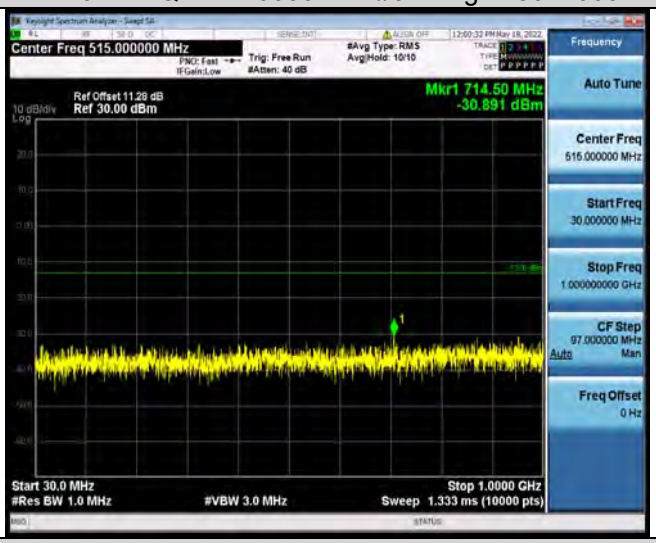
Band4-5MHz-16QAM-20375-1RB#0-Range1:30~1000MHz



Band4-5MHz-16QAM-20375-1RB#0-Range2:1000~20000MHz

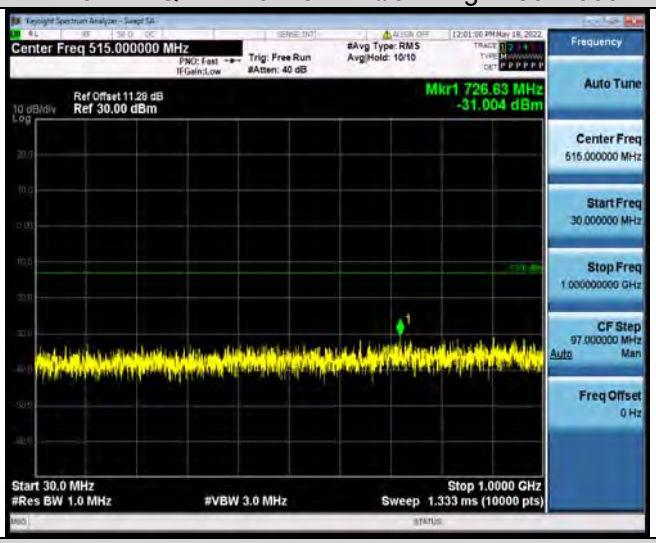


Band4-10MHz-QPSK-20000-1RB#0-Range1:30~1000MHz



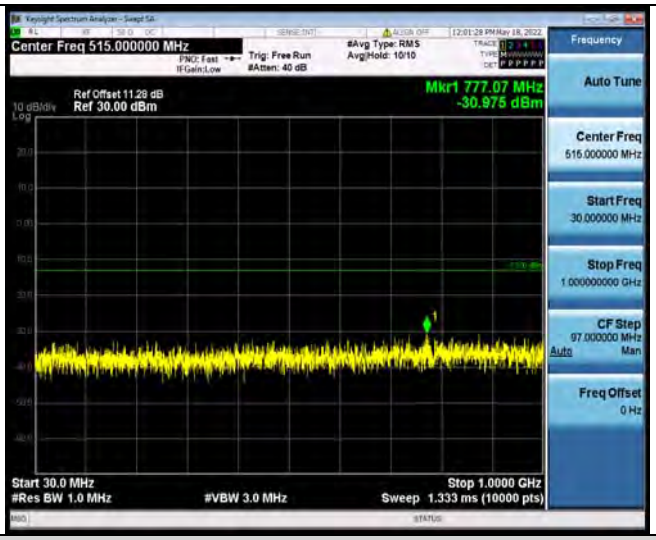
Band4-10MHz-QPSK-20000-1RB#0-Range2:1000~20000MHz

Band4-10MHz-QPSK-20175-1RB#0-Range1:30~1000MHz

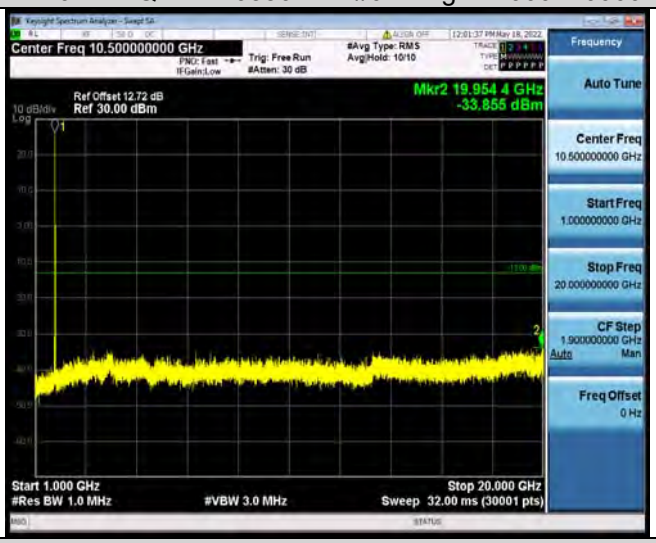


Band4-10MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

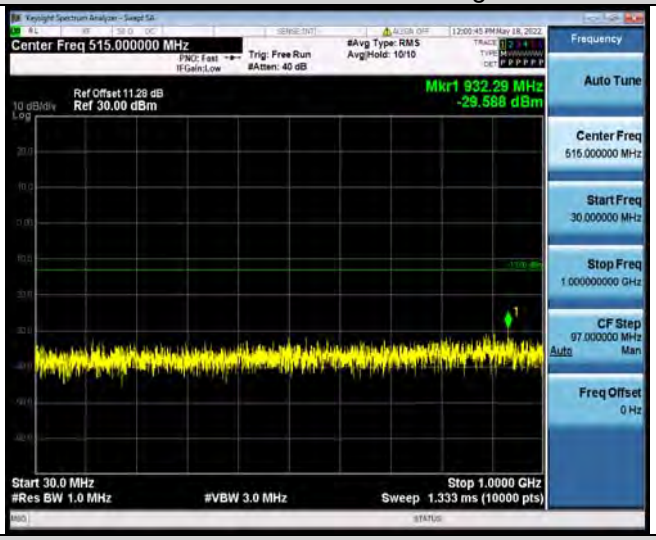
Band4-10MHz-QPSK-20350-1RB#0-Range1:30~1000MHz



Band4-10MHz-QPSK-20350-1RB#0-Range2:1000~20000MHz

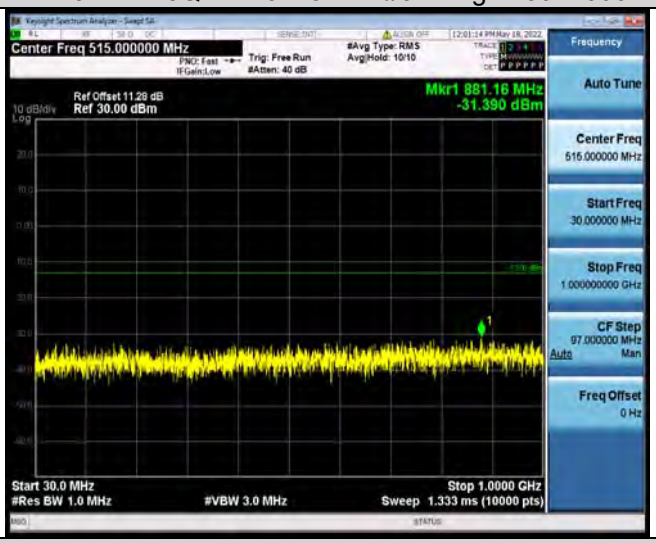


Band4-10MHz-16QAM-20000-1RB#0-Range1:30~1000MHz



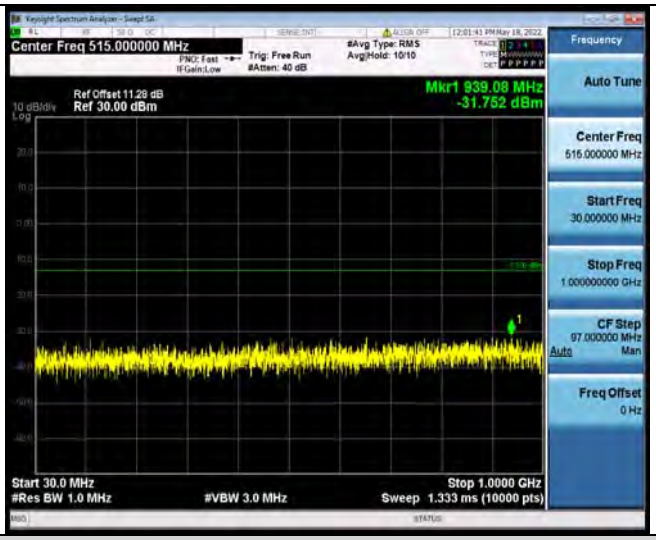
Band4-10MHz-16QAM-20000-1RB#0-Range2:1000~20000MHz

Band4-10MHz-16QAM-20175-1RB#0-Range1:30~1000MHz

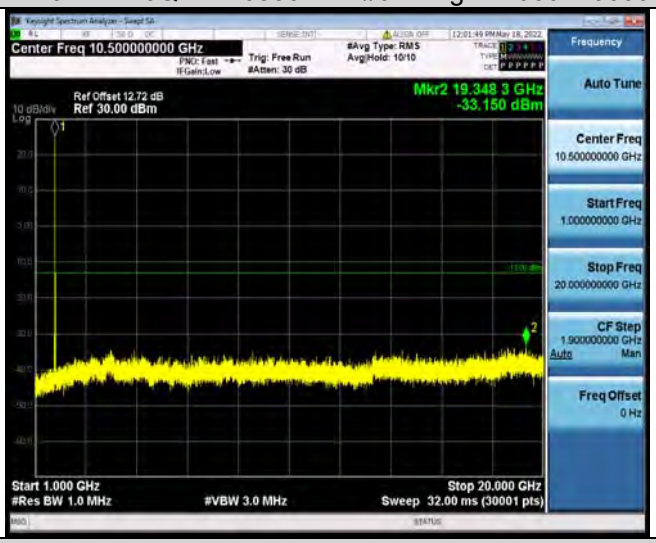


Band4-10MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

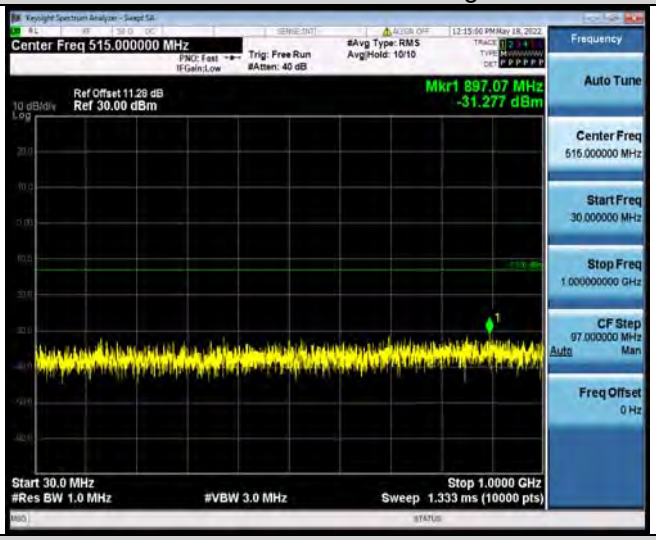
Band4-10MHz-16QAM-20350-1RB#0-Range1:30~1000MHz



Band4-10MHz-16QAM-20350-1RB#0-Range2:1000~20000MHz

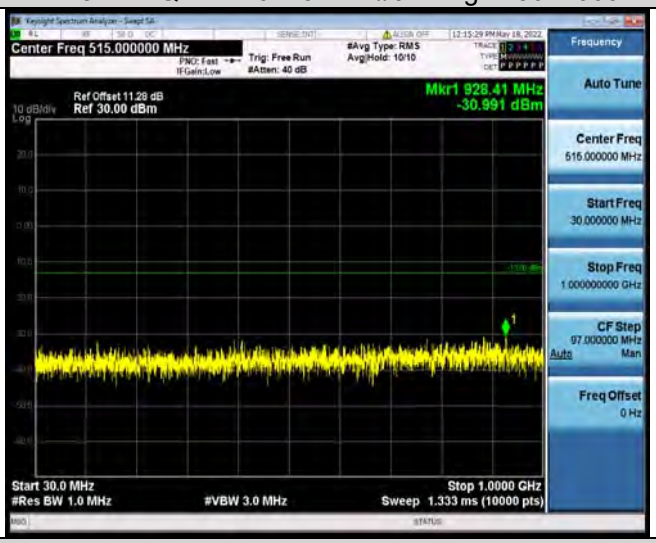


Band4-15MHz-QPSK-20025-1RB#0-Range1:30~1000MHz



Band4-15MHz-QPSK-20025-1RB#0-Range2:1000~20000MHz

Band4-15MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Band4-15MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

Band4-15MHz-QPSK-20325-1RB#0-Range1:30~1000MHz