



RF TEST REPORT

Applicant MobiWire SAS

FCC ID QPN-H6821

Product 4G Smart Phone

Brand MobiWire; MobiWire; Altice

Model MobiWire H6821; MBW Vodafone
Smart V22; Altice S64

Report No. R2206A0570-R3

Issue Date August 17, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(h)(2)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(m)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 /27.53(h) /27.53(m)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m)	PASS

Date of Testing: June 27, 2022 ~ July 15, 2022

Date of Sample Received: March 24, 2022

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
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City:	Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	MobiWire SAS
Applicant address	107 Boulevard de la Mission Marchand, 92400 Courbevoie, France.
Manufacturer	MobiWire SAS
Manufacturer address	107 Boulevard de la Mission Marchand, 92400 Courbevoie, France.

2.2 General information

EUT Description			
Model	MobiWire H6821; MBW Vodafone Smart V22; Altice S64		
IMEI	353539550000384		
Hardware Version	V00		
Software Version	MobiWire_H6821M_V01		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Antenna Gain(dBi)	
	LTE Band 4	-1.0	
	LTE Band 7	-1.5	
Test Mode(s)	LTE Band 4/7;		
Test Modulation	(LTE)QPSK, 16QAM;		
LTE Release	11		
Maximum E.R.P./E.I.R.P.	LTE Band 4:	23.17dBm	
	LTE Band 7:	22.39dBm	
Rated Power Supply Voltage	3.85V		
Operating Voltage	3.6V ~ 4.40V		
Operating Temperature	Lowest: -10°C Highest: +55°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
EUT Accessory			
Adapter	Manufacturer: Dongguan Aohai Technology Co., Ltd. Model: A18A-050100U-US2		
Battery	Manufacturer: NINGBO VEKEN BATTERY CO., LTD Model: 178249203		



Earphone	Manufacturer: JIU JIANG JUWEI ELECTRONICS CO.,LTD Model: JWEP0957-M01R
USB Cable	Manufacturer: SHENZHEN FKY-QY HARDWARE ELECTRONIC CO.,LTD Model: AM/MICRO5P
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.	

Item	Configure 1	Configure 2
Components on PCB changes	/	add second memory
Others	The same	The same
Note: Customer declaration, two models are the same, except for the memory, There are more than one Configure, each one should be applied throughout the compliance test respectively, and however, only the worst case (Configure 1) will be recorded in this report.		

Three models: MobiWire H6821; MBW Vodafone Smart V22; Altice S64

The difference:

MBW Vodafone Smart V22, Altice S64:

1. Battery silkscreen logo is different.
2. Different chargers are used. MBW Vodafone Smart V22 use AU charger, Altice S64 use US charger.

MobiWire H6821 is same as MBW Vodafone Smart V22.

And only the data for MobiWire H6821 is recorded in this report.



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

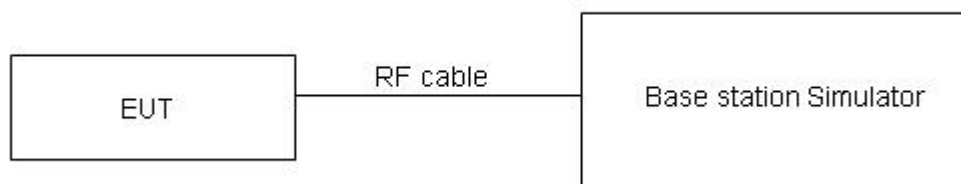
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where: dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit	≤ 2 W (33 dBm)



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

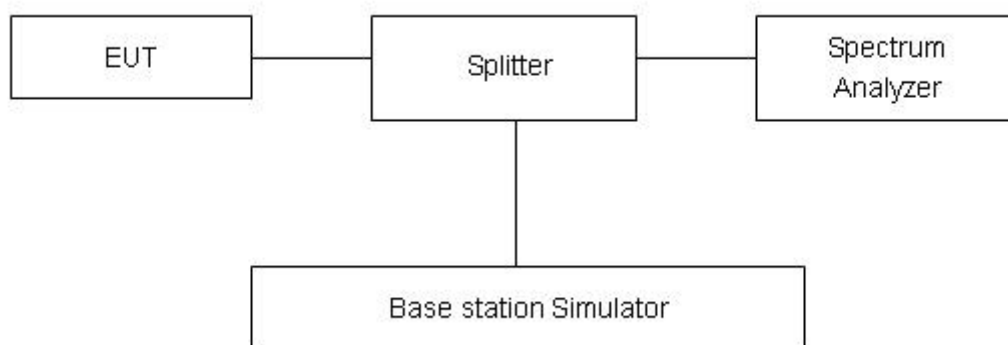
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

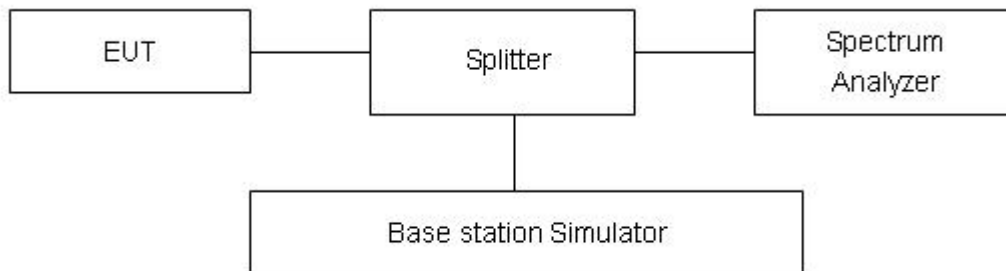
The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

Test Setup



Limits

Rule Part 27.53(h) specifies that “ for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Rule Part 27.53(m) (4)/ specifies that “for BRS and EBS stations. 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)(4) 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.

Example:

The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)



$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

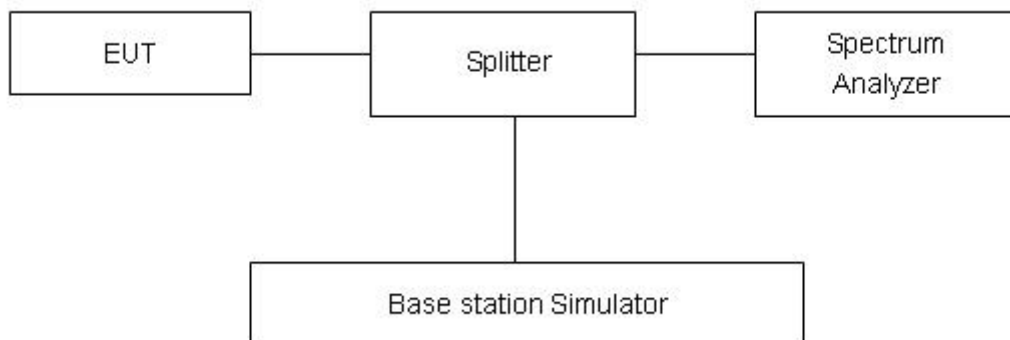
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$PAPR (dB) = PPk (dBm) - PAvg (dBm)$.

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. 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.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

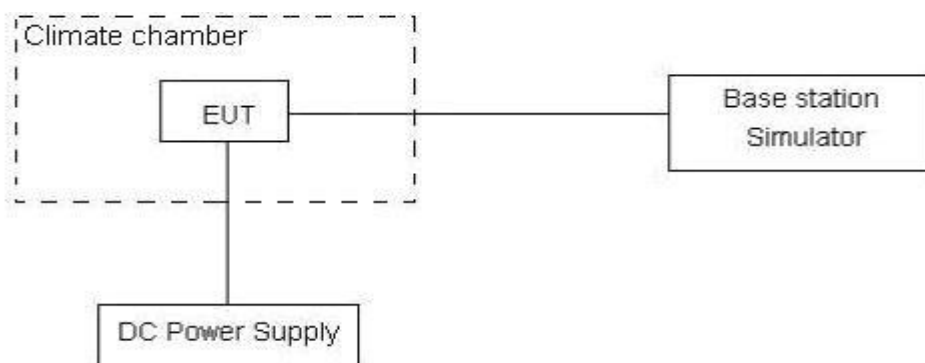
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.60 V and 4.40 V, with a nominal voltage of 3.85V.

Test setup



Limits

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100kHz, VBW is set to 300kHz for 30MHz~1GHz

RBW is set to 1MHz, VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

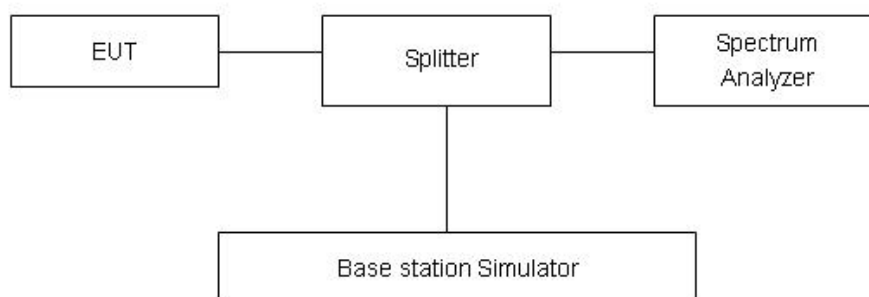
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB..”

Rule Part 27.53(m) $55 + 10 \log(P)$ 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)(4) of this section.

Part 27.53(a)/(h)/(g) Limit	-13 dBm
Part 27.53(m) Limit	-25 dBm



Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-26.5GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

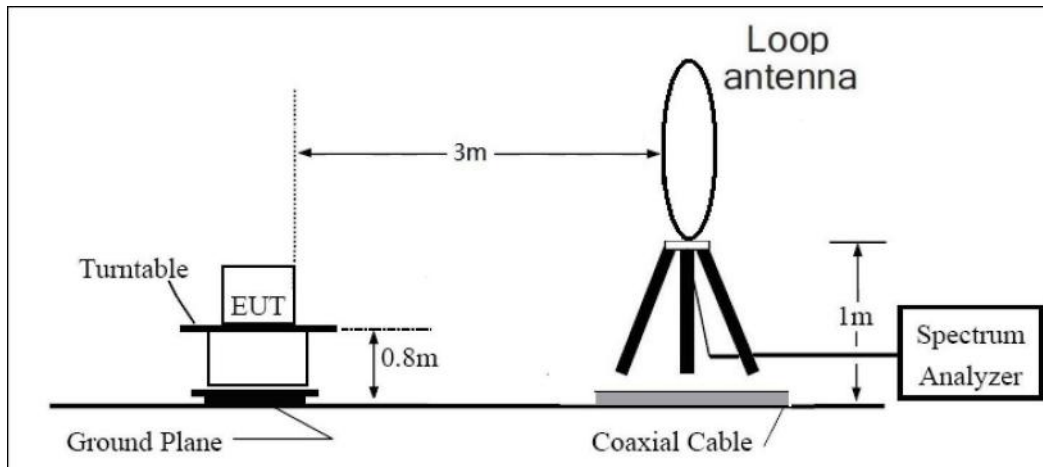
1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

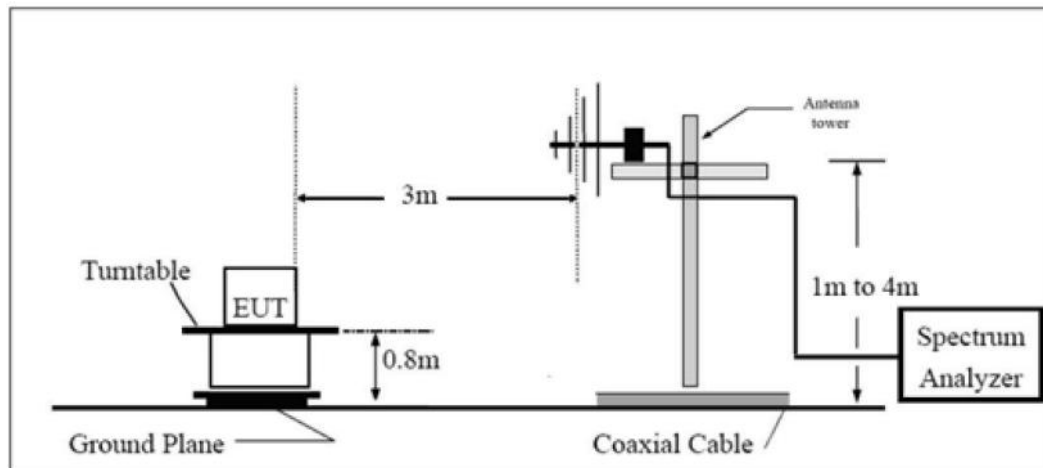
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

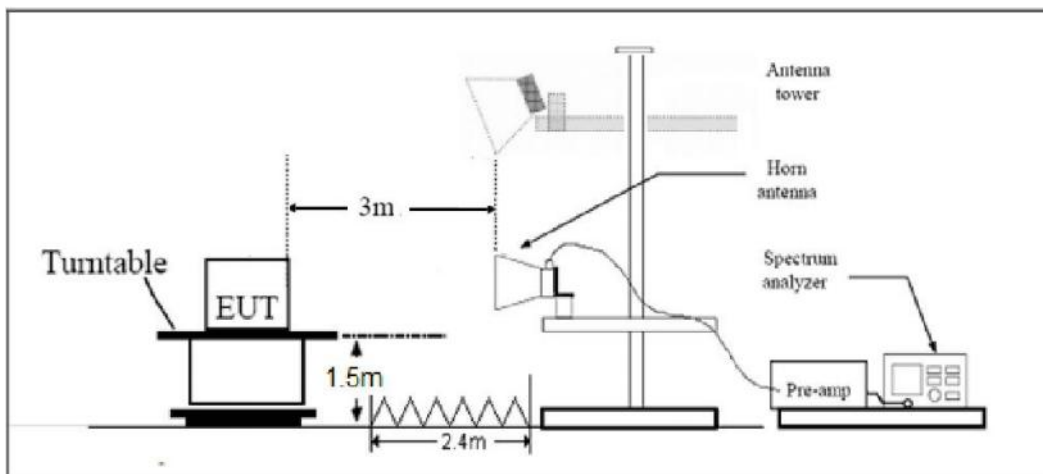
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.”

Rule Part 27.53(m) $55 + 10 \log (P)$ 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)(4) of this section.

Part 27.53(a)/(h)/(g) Limit	-13 dBm
Part 27.53(m) Limit	-25 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.



6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

LTE Band 4							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP(dBm)	Verdict
1.4	19957	1	#0	QPSK	23.85	22.85	PASS
1.4	19957	1	#Mid	QPSK	24.09	23.09	PASS
1.4	19957	1	#Max	QPSK	23.89	22.89	PASS
1.4	19957	3	#0	QPSK	23.91	22.91	PASS
1.4	19957	3	#Mid	QPSK	23.90	22.90	PASS
1.4	19957	3	#Max	QPSK	23.92	22.92	PASS
1.4	19957	6	#0	QPSK	22.88	21.88	PASS
1.4	19957	1	#0	16QAM	22.64	21.64	PASS
1.4	19957	1	#Mid	16QAM	22.91	21.91	PASS
1.4	19957	1	#Max	16QAM	22.64	21.64	PASS
1.4	19957	3	#0	16QAM	22.98	21.98	PASS
1.4	19957	3	#Mid	16QAM	22.95	21.95	PASS
1.4	19957	3	#Max	16QAM	22.98	21.98	PASS
1.4	19957	6	#0	16QAM	21.85	20.85	PASS
1.4	20175	1	#0	QPSK	23.82	22.82	PASS
1.4	20175	1	#Mid	QPSK	24.09	23.09	PASS
1.4	20175	1	#Max	QPSK	23.84	22.84	PASS
1.4	20175	3	#0	QPSK	23.89	22.89	PASS
1.4	20175	3	#Mid	QPSK	23.92	22.92	PASS
1.4	20175	3	#Max	QPSK	23.90	22.90	PASS
1.4	20175	6	#0	QPSK	22.85	21.85	PASS
1.4	20175	1	#0	16QAM	22.84	21.84	PASS
1.4	20175	1	#Mid	16QAM	23.11	22.11	PASS
1.4	20175	1	#Max	16QAM	22.83	21.83	PASS
1.4	20175	3	#0	16QAM	22.82	21.82	PASS
1.4	20175	3	#Mid	16QAM	22.80	21.80	PASS
1.4	20175	3	#Max	16QAM	22.86	21.86	PASS
1.4	20175	6	#0	16QAM	21.79	20.79	PASS
1.4	20393	1	#0	QPSK	23.72	22.72	PASS
1.4	20393	1	#Mid	QPSK	23.96	22.96	PASS
1.4	20393	1	#Max	QPSK	23.78	22.78	PASS
1.4	20393	3	#0	QPSK	23.87	22.87	PASS
1.4	20393	3	#Mid	QPSK	23.86	22.86	PASS
1.4	20393	3	#Max	QPSK	23.83	22.83	PASS



1.4	20393	6	#0	QPSK	22.78	21.78	PASS
1.4	20393	1	#0	16QAM	22.47	21.47	PASS
1.4	20393	1	#Mid	16QAM	22.65	21.65	PASS
1.4	20393	1	#Max	16QAM	22.44	21.44	PASS
1.4	20393	3	#0	16QAM	22.74	21.74	PASS
1.4	20393	3	#Mid	16QAM	22.73	21.73	PASS
1.4	20393	3	#Max	16QAM	22.72	21.72	PASS
1.4	20393	6	#0	16QAM	21.77	20.77	PASS
3	19965	1	#0	QPSK	23.92	22.92	PASS
3	19965	1	#Mid	QPSK	23.90	22.90	PASS
3	19965	1	#Max	QPSK	23.91	22.91	PASS
3	19965	8	#0	QPSK	22.89	21.89	PASS
3	19965	8	#Mid	QPSK	22.86	21.86	PASS
3	19965	8	#Max	QPSK	22.89	21.89	PASS
3	19965	15	#0	QPSK	22.88	21.88	PASS
3	19965	1	#0	16QAM	23.14	22.14	PASS
3	19965	1	#Mid	16QAM	23.09	22.09	PASS
3	19965	1	#Max	16QAM	23.11	22.11	PASS
3	19965	8	#0	16QAM	21.91	20.91	PASS
3	19965	8	#Mid	16QAM	21.89	20.89	PASS
3	19965	8	#Max	16QAM	21.92	20.92	PASS
3	19965	15	#0	16QAM	21.84	20.84	PASS
3	20175	1	#0	QPSK	23.97	22.97	PASS
3	20175	1	#Mid	QPSK	23.94	22.94	PASS
3	20175	1	#Max	QPSK	23.91	22.91	PASS
3	20175	8	#0	QPSK	22.88	21.88	PASS
3	20175	8	#Mid	QPSK	22.89	21.89	PASS
3	20175	8	#Max	QPSK	22.93	21.93	PASS
3	20175	15	#0	QPSK	22.88	21.88	PASS
3	20175	1	#0	16QAM	22.94	21.94	PASS
3	20175	1	#Mid	16QAM	22.89	21.89	PASS
3	20175	1	#Max	16QAM	22.86	21.86	PASS
3	20175	8	#0	16QAM	21.91	20.91	PASS
3	20175	8	#Mid	16QAM	21.91	20.91	PASS
3	20175	8	#Max	16QAM	21.92	20.92	PASS
3	20175	15	#0	16QAM	21.81	20.81	PASS
3	20385	1	#0	QPSK	23.82	22.82	PASS
3	20385	1	#Mid	QPSK	23.89	22.89	PASS
3	20385	1	#Max	QPSK	23.92	22.92	PASS
3	20385	8	#0	QPSK	22.85	21.85	PASS
3	20385	8	#Mid	QPSK	22.85	21.85	PASS
3	20385	8	#Max	QPSK	22.89	21.89	PASS
3	20385	15	#0	QPSK	22.80	21.80	PASS



3	20385	1	#0	16QAM	22.50	21.50	PASS
3	20385	1	#Mid	16QAM	22.56	21.56	PASS
3	20385	1	#Max	16QAM	22.51	21.51	PASS
3	20385	8	#0	16QAM	21.85	20.85	PASS
3	20385	8	#Mid	16QAM	21.85	20.85	PASS
3	20385	8	#Max	16QAM	21.85	20.85	PASS
3	20385	15	#0	16QAM	21.84	20.84	PASS
5	19975	1	#0	QPSK	23.76	22.76	PASS
5	19975	1	#Mid	QPSK	23.87	22.87	PASS
5	19975	1	#Max	QPSK	23.78	22.78	PASS
5	19975	12	#0	QPSK	22.91	21.91	PASS
5	19975	12	#Mid	QPSK	22.84	21.84	PASS
5	19975	12	#Max	QPSK	22.86	21.86	PASS
5	19975	25	#0	QPSK	22.88	21.88	PASS
5	19975	1	#0	16QAM	23.13	22.13	PASS
5	19975	1	#Mid	16QAM	23.28	22.28	PASS
5	19975	1	#Max	16QAM	23.18	22.18	PASS
5	19975	12	#0	16QAM	21.82	20.82	PASS
5	19975	12	#Mid	16QAM	21.88	20.88	PASS
5	19975	12	#Max	16QAM	21.78	20.78	PASS
5	19975	25	#0	16QAM	21.91	20.91	PASS
5	20175	1	#0	QPSK	23.86	22.86	PASS
5	20175	1	#Mid	QPSK	24.00	23.00	PASS
5	20175	1	#Max	QPSK	23.82	22.82	PASS
5	20175	12	#0	QPSK	22.88	21.88	PASS
5	20175	12	#Mid	QPSK	22.87	21.87	PASS
5	20175	12	#Max	QPSK	22.89	21.89	PASS
5	20175	25	#0	QPSK	22.91	21.91	PASS
5	20175	1	#0	16QAM	22.90	21.90	PASS
5	20175	1	#Mid	16QAM	23.01	22.01	PASS
5	20175	1	#Max	16QAM	22.81	21.81	PASS
5	20175	12	#0	16QAM	21.84	20.84	PASS
5	20175	12	#Mid	16QAM	21.84	20.84	PASS
5	20175	12	#Max	16QAM	21.85	20.85	PASS
5	20175	25	#0	16QAM	21.91	20.91	PASS
5	20375	1	#0	QPSK	23.65	22.65	PASS
5	20375	1	#Mid	QPSK	23.80	22.80	PASS
5	20375	1	#Max	QPSK	23.67	22.67	PASS
5	20375	12	#0	QPSK	22.84	21.84	PASS
5	20375	12	#Mid	QPSK	22.88	21.88	PASS
5	20375	12	#Max	QPSK	22.85	21.85	PASS
5	20375	25	#0	QPSK	22.84	21.84	PASS
5	20375	1	#0	16QAM	22.83	21.83	PASS



5	20375	1	#Mid	16QAM	22.98	21.98	PASS
5	20375	1	#Max	16QAM	22.85	21.85	PASS
5	20375	12	#0	16QAM	21.89	20.89	PASS
5	20375	12	#Mid	16QAM	21.88	20.88	PASS
5	20375	12	#Max	16QAM	21.86	20.86	PASS
5	20375	25	#0	16QAM	21.86	20.86	PASS
10	20000	1	#0	QPSK	23.92	22.92	PASS
10	20000	1	#Mid	QPSK	24.05	23.05	PASS
10	20000	1	#Max	QPSK	23.96	22.96	PASS
10	20000	25	#0	QPSK	22.90	21.90	PASS
10	20000	25	#Mid	QPSK	22.89	21.89	PASS
10	20000	25	#Max	QPSK	22.89	21.89	PASS
10	20000	50	#0	QPSK	22.87	21.87	PASS
10	20000	1	#0	16QAM	23.05	22.05	PASS
10	20000	1	#Mid	16QAM	23.41	22.41	PASS
10	20000	1	#Max	16QAM	23.19	22.19	PASS
10	20000	25	#0	16QAM	21.92	20.92	PASS
10	20000	25	#Mid	16QAM	21.95	20.95	PASS
10	20000	25	#Max	16QAM	21.96	20.96	PASS
10	20000	50	#0	16QAM	21.86	20.86	PASS
10	20175	1	#0	QPSK	23.94	22.94	PASS
10	20175	1	#Mid	QPSK	24.17	23.17	PASS
10	20175	1	#Max	QPSK	23.91	22.91	PASS
10	20175	25	#0	QPSK	22.86	21.86	PASS
10	20175	25	#Mid	QPSK	22.88	21.88	PASS
10	20175	25	#Max	QPSK	22.89	21.89	PASS
10	20175	50	#0	QPSK	22.87	21.87	PASS
10	20175	1	#0	16QAM	22.84	21.84	PASS
10	20175	1	#Mid	16QAM	23.02	22.02	PASS
10	20175	1	#Max	16QAM	22.83	21.83	PASS
10	20175	25	#0	16QAM	21.88	20.88	PASS
10	20175	25	#Mid	16QAM	21.88	20.88	PASS
10	20175	25	#Max	16QAM	21.91	20.91	PASS
10	20175	50	#0	16QAM	21.87	20.87	PASS
10	20350	1	#0	QPSK	23.83	22.83	PASS
10	20350	1	#Mid	QPSK	23.95	22.95	PASS
10	20350	1	#Max	QPSK	23.83	22.83	PASS
10	20350	25	#0	QPSK	22.94	21.94	PASS
10	20350	25	#Mid	QPSK	22.88	21.88	PASS
10	20350	25	#Max	QPSK	22.77	21.77	PASS
10	20350	50	#0	QPSK	22.82	21.82	PASS
10	20350	1	#0	16QAM	22.50	21.50	PASS
10	20350	1	#Mid	16QAM	22.65	21.65	PASS



10	20350	1	#Max	16QAM	22.53	21.53	PASS
10	20350	25	#0	16QAM	21.92	20.92	PASS
10	20350	25	#Mid	16QAM	21.92	20.92	PASS
10	20350	25	#Max	16QAM	21.78	20.78	PASS
10	20350	50	#0	16QAM	21.87	20.87	PASS
15	20025	1	#0	QPSK	23.82	22.82	PASS
15	20025	1	#Mid	QPSK	24.00	23.00	PASS
15	20025	1	#Max	QPSK	23.87	22.87	PASS
15	20025	36	#0	QPSK	22.89	21.89	PASS
15	20025	36	#Mid	QPSK	22.93	21.93	PASS
15	20025	36	#Max	QPSK	22.97	21.97	PASS
15	20025	75	#0	QPSK	22.92	21.92	PASS
15	20025	1	#0	16QAM	22.97	21.97	PASS
15	20025	1	#Mid	16QAM	23.22	22.22	PASS
15	20025	1	#Max	16QAM	23.07	22.07	PASS
15	20025	36	#0	16QAM	21.89	20.89	PASS
15	20025	36	#Mid	16QAM	21.92	20.92	PASS
15	20025	36	#Max	16QAM	21.93	20.93	PASS
15	20025	75	#0	16QAM	21.95	20.95	PASS
15	20175	1	#0	QPSK	23.83	22.83	PASS
15	20175	1	#Mid	QPSK	23.92	22.92	PASS
15	20175	1	#Max	QPSK	23.79	22.79	PASS
15	20175	36	#0	QPSK	22.86	21.86	PASS
15	20175	36	#Mid	QPSK	22.87	21.87	PASS
15	20175	36	#Max	QPSK	22.90	21.90	PASS
15	20175	75	#0	QPSK	22.89	21.89	PASS
15	20175	1	#0	16QAM	22.77	21.77	PASS
15	20175	1	#Mid	16QAM	22.86	21.86	PASS
15	20175	1	#Max	16QAM	22.71	21.71	PASS
15	20175	36	#0	16QAM	21.85	20.85	PASS
15	20175	36	#Mid	16QAM	21.85	20.85	PASS
15	20175	36	#Max	16QAM	21.86	20.86	PASS
15	20175	75	#0	16QAM	21.88	20.88	PASS
15	20325	1	#0	QPSK	23.84	22.84	PASS
15	20325	1	#Mid	QPSK	23.96	22.96	PASS
15	20325	1	#Max	QPSK	23.83	22.83	PASS
15	20325	36	#0	QPSK	22.90	21.90	PASS
15	20325	36	#Mid	QPSK	22.91	21.91	PASS
15	20325	36	#Max	QPSK	22.78	21.78	PASS
15	20325	75	#0	QPSK	22.86	21.86	PASS
15	20325	1	#0	16QAM	22.59	21.59	PASS
15	20325	1	#Mid	16QAM	22.68	21.68	PASS
15	20325	1	#Max	16QAM	22.55	21.55	PASS



15	20325	36	#0	16QAM	21.89	20.89	PASS
15	20325	36	#Mid	16QAM	21.90	20.90	PASS
15	20325	36	#Max	16QAM	21.72	20.72	PASS
15	20325	75	#0	16QAM	21.83	20.83	PASS
20	20050	1	#0	QPSK	23.63	22.63	PASS
20	20050	1	#Mid	QPSK	24.12	23.12	PASS
20	20050	1	#Max	QPSK	23.73	22.73	PASS
20	20050	50	#0	QPSK	22.89	21.89	PASS
20	20050	50	#Mid	QPSK	22.88	21.88	PASS
20	20050	50	#Max	QPSK	22.99	21.99	PASS
20	20050	100	#0	QPSK	22.97	21.97	PASS
20	20050	1	#0	16QAM	22.62	21.62	PASS
20	20050	1	#Mid	16QAM	23.16	22.16	PASS
20	20050	1	#Max	16QAM	22.74	21.74	PASS
20	20050	50	#0	16QAM	21.98	20.98	PASS
20	20050	50	#Mid	16QAM	21.95	20.95	PASS
20	20050	50	#Max	16QAM	22.02	21.02	PASS
20	20050	100	#0	16QAM	21.98	20.98	PASS
20	20175	1	#0	QPSK	23.73	22.73	PASS
20	20175	1	#Mid	QPSK	24.10	23.10	PASS
20	20175	1	#Max	QPSK	23.69	22.69	PASS
20	20175	50	#0	QPSK	22.83	21.83	PASS
20	20175	50	#Mid	QPSK	22.83	21.83	PASS
20	20175	50	#Max	QPSK	22.82	21.82	PASS
20	20175	100	#0	QPSK	22.90	21.90	PASS
20	20175	1	#0	16QAM	22.36	21.36	PASS
20	20175	1	#Mid	16QAM	22.72	21.72	PASS
20	20175	1	#Max	16QAM	22.34	21.34	PASS
20	20175	50	#0	16QAM	21.83	20.83	PASS
20	20175	50	#Mid	16QAM	21.86	20.86	PASS
20	20175	50	#Max	16QAM	21.85	20.85	PASS
20	20175	100	#0	16QAM	21.92	20.92	PASS
20	20300	1	#0	QPSK	23.53	22.53	PASS
20	20300	1	#Mid	QPSK	23.95	22.95	PASS
20	20300	1	#Max	QPSK	23.56	22.56	PASS
20	20300	50	#0	QPSK	22.95	21.95	PASS
20	20300	50	#Mid	QPSK	22.96	21.96	PASS
20	20300	50	#Max	QPSK	22.69	21.69	PASS
20	20300	100	#0	QPSK	22.86	21.86	PASS
20	20300	1	#0	16QAM	22.08	21.08	PASS
20	20300	1	#Mid	16QAM	22.52	21.52	PASS
20	20300	1	#Max	16QAM	22.10	21.10	PASS
20	20300	50	#0	16QAM	21.99	20.99	PASS



20	20300	50	#Mid	16QAM	22.03	21.03	PASS
20	20300	50	#Max	16QAM	21.79	20.79	PASS
20	20300	100	#0	16QAM	21.87	20.87	PASS

LTE Band 7							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP(dBm)	Verdict
5	20775	1	#0	QPSK	22.55	21.05	PASS
5	20775	1	#Mid	QPSK	22.64	21.14	PASS
5	20775	1	#Max	QPSK	22.57	21.07	PASS
5	20775	12	#0	QPSK	21.70	20.20	PASS
5	20775	12	#Mid	QPSK	21.69	20.19	PASS
5	20775	12	#Max	QPSK	21.72	20.22	PASS
5	20775	25	#0	QPSK	21.74	20.24	PASS
5	20775	1	#0	16QAM	21.68	20.18	PASS
5	20775	1	#Mid	16QAM	21.81	20.31	PASS
5	20775	1	#Max	16QAM	21.74	20.24	PASS
5	20775	12	#0	16QAM	20.78	19.28	PASS
5	20775	12	#Mid	16QAM	20.79	19.29	PASS
5	20775	12	#Max	16QAM	20.77	19.27	PASS
5	20775	25	#0	16QAM	20.80	19.30	PASS
5	21100	1	#0	QPSK	22.43	20.93	PASS
5	21100	1	#Mid	QPSK	22.51	21.01	PASS
5	21100	1	#Max	QPSK	22.43	20.93	PASS
5	21100	12	#0	QPSK	21.55	20.05	PASS
5	21100	12	#Mid	QPSK	21.54	20.04	PASS
5	21100	12	#Max	QPSK	21.55	20.05	PASS
5	21100	25	#0	QPSK	21.59	20.09	PASS
5	21100	1	#0	16QAM	21.81	20.31	PASS
5	21100	1	#Mid	16QAM	21.89	20.39	PASS
5	21100	1	#Max	16QAM	21.88	20.38	PASS
5	21100	12	#0	16QAM	20.55	19.05	PASS
5	21100	12	#Mid	16QAM	20.55	19.05	PASS
5	21100	12	#Max	16QAM	20.60	19.10	PASS
5	21100	25	#0	16QAM	20.64	19.14	PASS
5	21425	1	#0	QPSK	22.56	21.06	PASS
5	21425	1	#Mid	QPSK	22.63	21.13	PASS
5	21425	1	#Max	QPSK	22.56	21.06	PASS
5	21425	12	#0	QPSK	21.69	20.19	PASS
5	21425	12	#Mid	QPSK	21.72	20.22	PASS
5	21425	12	#Max	QPSK	21.64	20.14	PASS
5	21425	25	#0	QPSK	21.64	20.14	PASS
5	21425	1	#0	16QAM	21.62	20.12	PASS



5	21425	1	#Mid	16QAM	21.71	20.21	PASS
5	21425	1	#Max	16QAM	21.61	20.11	PASS
5	21425	12	#0	16QAM	20.62	19.12	PASS
5	21425	12	#Mid	16QAM	20.61	19.11	PASS
5	21425	12	#Max	16QAM	20.59	19.09	PASS
5	21425	25	#0	16QAM	20.67	19.17	PASS
10	20800	1	#0	QPSK	22.76	21.26	PASS
10	20800	1	#Mid	QPSK	22.98	21.48	PASS
10	20800	1	#Max	QPSK	22.78	21.28	PASS
10	20800	25	#0	QPSK	21.79	20.29	PASS
10	20800	25	#Mid	QPSK	21.76	20.26	PASS
10	20800	25	#Max	QPSK	21.81	20.31	PASS
10	20800	50	#0	QPSK	21.81	20.31	PASS
10	20800	1	#0	16QAM	21.71	20.21	PASS
10	20800	1	#Mid	16QAM	21.84	20.34	PASS
10	20800	1	#Max	16QAM	21.72	20.22	PASS
10	20800	25	#0	16QAM	20.82	19.32	PASS
10	20800	25	#Mid	16QAM	20.83	19.33	PASS
10	20800	25	#Max	16QAM	20.83	19.33	PASS
10	20800	50	#0	16QAM	20.90	19.40	PASS
10	21100	1	#0	QPSK	22.53	21.03	PASS
10	21100	1	#Mid	QPSK	22.63	21.13	PASS
10	21100	1	#Max	QPSK	22.60	21.10	PASS
10	21100	25	#0	QPSK	21.64	20.14	PASS
10	21100	25	#Mid	QPSK	21.64	20.14	PASS
10	21100	25	#Max	QPSK	21.62	20.12	PASS
10	21100	50	#0	QPSK	21.67	20.17	PASS
10	21100	1	#0	16QAM	21.22	19.72	PASS
10	21100	1	#Mid	16QAM	21.46	19.96	PASS
10	21100	1	#Max	16QAM	21.29	19.79	PASS
10	21100	25	#0	16QAM	20.69	19.19	PASS
10	21100	25	#Mid	16QAM	20.71	19.21	PASS
10	21100	25	#Max	16QAM	20.68	19.18	PASS
10	21100	50	#0	16QAM	20.74	19.24	PASS
10	21400	1	#0	QPSK	23.41	21.91	PASS
10	21400	1	#Mid	QPSK	23.57	22.07	PASS
10	21400	1	#Max	QPSK	23.60	22.10	PASS
10	21400	25	#0	QPSK	22.55	21.05	PASS
10	21400	25	#Mid	QPSK	22.55	21.05	PASS
10	21400	25	#Max	QPSK	22.74	21.24	PASS
10	21400	50	#0	QPSK	22.66	21.16	PASS
10	21400	1	#0	16QAM	22.73	21.23	PASS
10	21400	1	#Mid	16QAM	22.95	21.45	PASS



10	21400	1	#Max	16QAM	22.82	21.32	PASS
10	21400	25	#0	16QAM	21.60	20.10	PASS
10	21400	25	#Mid	16QAM	21.63	20.13	PASS
10	21400	25	#Max	16QAM	21.92	20.42	PASS
10	21400	50	#0	16QAM	21.74	20.24	PASS
15	20825	1	#0	QPSK	23.89	22.39	PASS
15	20825	1	#Mid	QPSK	23.79	22.29	PASS
15	20825	1	#Max	QPSK	23.01	21.51	PASS
15	20825	36	#0	QPSK	23.09	21.59	PASS
15	20825	36	#Mid	QPSK	23.05	21.55	PASS
15	20825	36	#Max	QPSK	22.46	20.96	PASS
15	20825	75	#0	QPSK	22.80	21.30	PASS
15	20825	1	#0	16QAM	23.00	21.50	PASS
15	20825	1	#Mid	16QAM	23.02	21.52	PASS
15	20825	1	#Max	16QAM	22.26	20.76	PASS
15	20825	36	#0	16QAM	22.04	20.54	PASS
15	20825	36	#Mid	16QAM	22.04	20.54	PASS
15	20825	36	#Max	16QAM	21.48	19.98	PASS
15	20825	75	#0	16QAM	21.82	20.32	PASS
15	21100	1	#0	QPSK	21.60	20.10	PASS
15	21100	1	#Mid	QPSK	21.63	20.13	PASS
15	21100	1	#Max	QPSK	21.79	20.29	PASS
15	21100	36	#0	QPSK	20.74	19.24	PASS
15	21100	36	#Mid	QPSK	20.75	19.25	PASS
15	21100	36	#Max	QPSK	21.59	20.09	PASS
15	21100	75	#0	QPSK	21.63	20.13	PASS
15	21100	1	#0	16QAM	21.44	19.94	PASS
15	21100	1	#Mid	16QAM	21.56	20.06	PASS
15	21100	1	#Max	16QAM	21.53	20.03	PASS
15	21100	36	#0	16QAM	20.63	19.13	PASS
15	21100	36	#Mid	16QAM	20.66	19.16	PASS
15	21100	36	#Max	16QAM	20.60	19.10	PASS
15	21100	75	#0	16QAM	20.67	19.17	PASS
15	21375	1	#0	QPSK	22.59	21.09	PASS
15	21375	1	#Mid	QPSK	22.74	21.24	PASS
15	21375	1	#Max	QPSK	22.65	21.15	PASS
15	21375	36	#0	QPSK	21.67	20.17	PASS
15	21375	36	#Mid	QPSK	21.67	20.17	PASS
15	21375	36	#Max	QPSK	21.64	20.14	PASS
15	21375	75	#0	QPSK	21.66	20.16	PASS
15	21375	1	#0	16QAM	21.42	19.92	PASS
15	21375	1	#Mid	16QAM	21.54	20.04	PASS
15	21375	1	#Max	16QAM	21.47	19.97	PASS



15	21375	36	#0	16QAM	20.63	19.13	PASS
15	21375	36	#Mid	16QAM	20.59	19.09	PASS
15	21375	36	#Max	16QAM	20.57	19.07	PASS
15	21375	75	#0	16QAM	20.68	19.18	PASS
20	20850	1	#0	QPSK	22.49	20.99	PASS
20	20850	1	#Mid	QPSK	22.88	21.38	PASS
20	20850	1	#Max	QPSK	22.46	20.96	PASS
20	20850	50	#0	QPSK	21.65	20.15	PASS
20	20850	50	#Mid	QPSK	21.68	20.18	PASS
20	20850	50	#Max	QPSK	21.75	20.25	PASS
20	20850	100	#0	QPSK	21.70	20.20	PASS
20	20850	1	#0	16QAM	21.18	19.68	PASS
20	20850	1	#Mid	16QAM	21.59	20.09	PASS
20	20850	1	#Max	16QAM	21.17	19.67	PASS
20	20850	50	#0	16QAM	20.69	19.19	PASS
20	20850	50	#Mid	16QAM	20.74	19.24	PASS
20	20850	50	#Max	16QAM	20.74	19.24	PASS
20	20850	100	#0	16QAM	20.77	19.27	PASS
20	21100	1	#0	QPSK	22.25	20.75	PASS
20	21100	1	#Mid	QPSK	22.66	21.16	PASS
20	21100	1	#Max	QPSK	22.32	20.82	PASS
20	21100	50	#0	QPSK	21.54	20.04	PASS
20	21100	50	#Mid	QPSK	21.57	20.07	PASS
20	21100	50	#Max	QPSK	21.62	20.12	PASS
20	21100	100	#0	QPSK	21.55	20.05	PASS
20	21100	1	#0	16QAM	20.86	19.36	PASS
20	21100	1	#Mid	16QAM	21.33	19.83	PASS
20	21100	1	#Max	16QAM	20.99	19.49	PASS
20	21100	50	#0	16QAM	20.68	19.18	PASS
20	21100	50	#Mid	16QAM	20.69	19.19	PASS
20	21100	50	#Max	16QAM	20.70	19.20	PASS
20	21100	100	#0	16QAM	20.68	19.18	PASS
20	21350	1	#0	QPSK	22.36	20.86	PASS
20	21350	1	#Mid	QPSK	22.74	21.24	PASS
20	21350	1	#Max	QPSK	22.46	20.96	PASS
20	21350	50	#0	QPSK	21.59	20.09	PASS
20	21350	50	#Mid	QPSK	21.58	20.08	PASS
20	21350	50	#Max	QPSK	21.61	20.11	PASS
20	21350	100	#0	QPSK	21.58	20.08	PASS
20	21350	1	#0	16QAM	21.50	20.00	PASS
20	21350	1	#Mid	16QAM	21.84	20.34	PASS
20	21350	1	#Max	16QAM	21.53	20.03	PASS
20	21350	50	#0	16QAM	20.64	19.14	PASS



20	21350	50	#Mid	16QAM	20.64	19.14	PASS
20	21350	50	#Max	16QAM	20.62	19.12	PASS
20	21350	100	#0	16QAM	20.70	19.20	PASS

6.2 Occupied Bandwidth

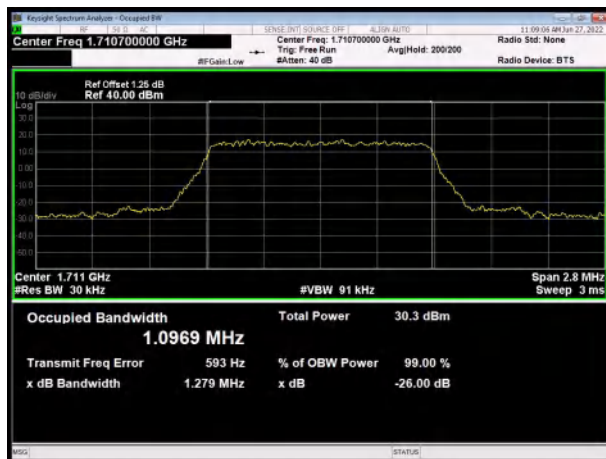
LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.097	1.279
			20175	1732.5	1.088	1.270
			20393	1754.3	1.096	1.286
		3	19965	1711.5	2.683	2.898
			20175	1732.5	2.687	2.891
			20385	1753.5	2.697	2.912
		5	19975	1712.5	4.506	4.857
			20175	1732.5	4.518	4.911
			20375	1752.5	4.509	4.914
		10	20000	1715	8.947	9.637
			20175	1732.5	8.978	9.613
			20350	1750	8.981	9.676
		15	20025	1717.5	13.498	14.459
			20175	1732.5	13.440	14.422
			20325	1747.5	13.474	14.446
		20	20050	1720	17.962	19.408
			20175	1732.5	17.924	19.259
			20300	1745	17.961	19.300
	16QAM	1.4	19957	1710.7	1.090	1.280
			20175	1732.5	1.098	1.325
			20393	1754.3	1.089	1.260
		3	19965	1711.5	2.681	2.921
			20175	1732.5	2.699	2.904
			20385	1753.5	2.683	2.915
		5	19975	1712.5	4.512	4.935
			20175	1732.5	4.498	4.891
			20375	1752.5	4.521	4.903
		10	20000	1715	8.984	9.759
			20175	1732.5	8.966	9.629
			20350	1750	8.972	9.706
		15	20025	1717.5	13.462	14.479
			20175	1732.5	13.390	14.351
			20325	1747.5	13.479	14.498



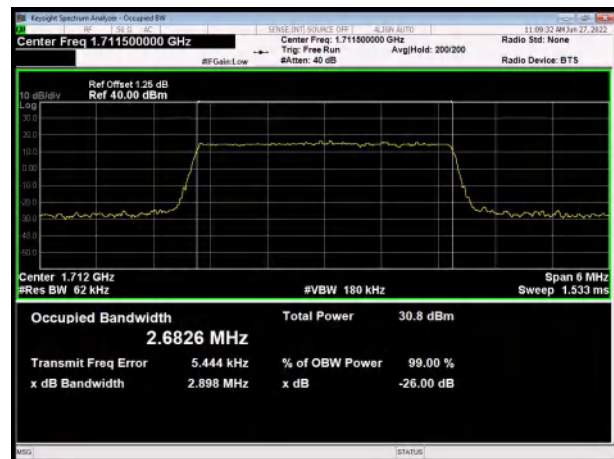
		20	20050	1720	17.951	19.472
			20175	1732.5	17.970	19.302
			20300	1745	17.932	19.286

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.507	4.883
			21100	2535	4.507	4.887
			21425	2567.5	4.520	4.938
		10	20800	2505	9.012	9.743
			21100	2535	8.968	9.679
			21400	2565	9.013	9.659
		15	20825	2507.5	13.467	14.521
			21100	2535	13.493	14.451
			21375	2562.5	13.508	14.432
		20	20850	2510	17.971	19.379
			21100	2535	17.932	19.268
			21350	2560	18.010	19.329
	16QAM	5	20775	2502.5	4.514	4.925
			21100	2535	4.510	4.909
			21425	2567.5	4.518	4.866
		10	20800	2505	9.012	9.738
			21100	2535	8.974	9.666
			21400	2565	8.988	9.769
		15	20825	2507.5	13.489	14.602
			21100	2535	13.481	14.538
			21375	2562.5	13.430	14.521
		20	20850	2510	17.990	19.265
			21100	2535	17.930	19.257
			21350	2560	17.946	19.378

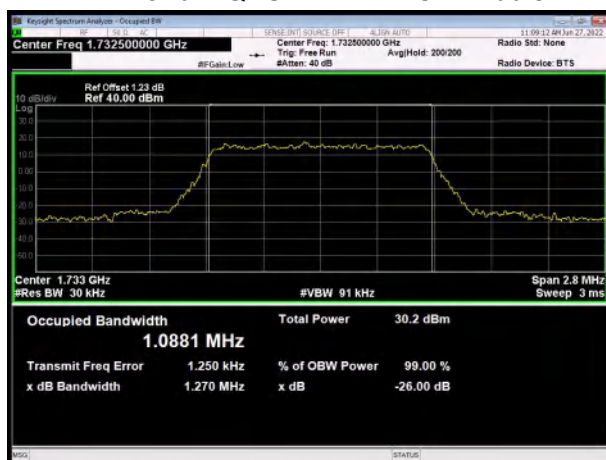
LTE Band 4 QPSK 1.4MHz CH-Low



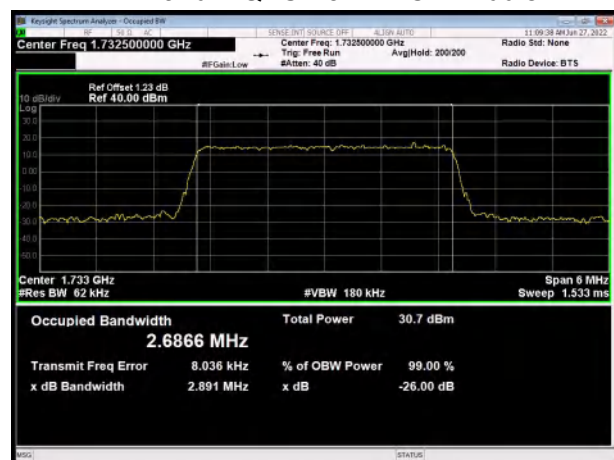
LTE Band 4 QPSK 3MHz CH-Low



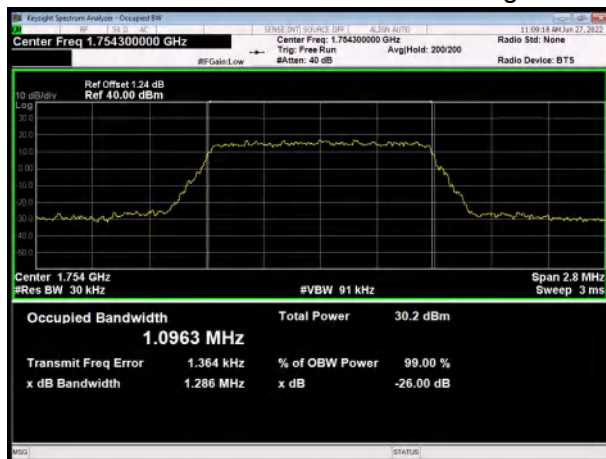
LTE Band 4 QPSK 1.4MHz CH-Middle



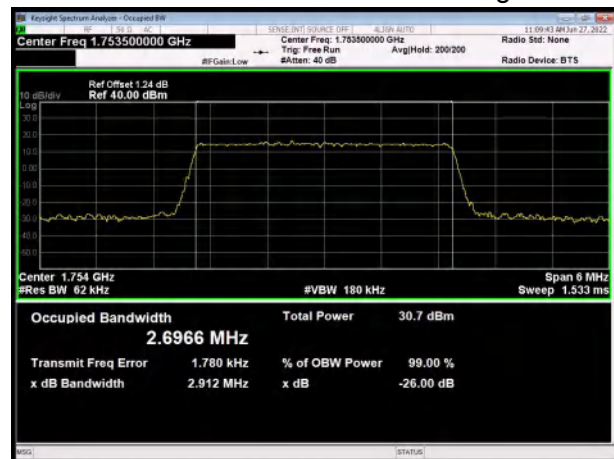
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

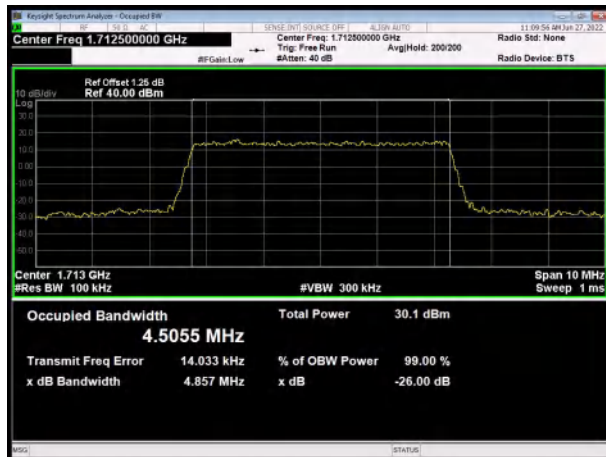


LTE Band 4 QPSK 3MHz CH-High

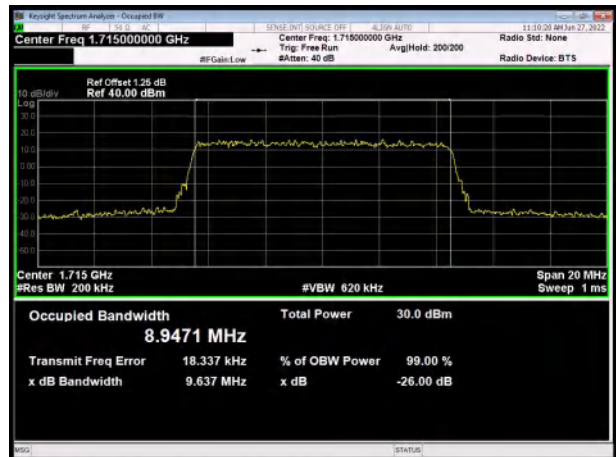




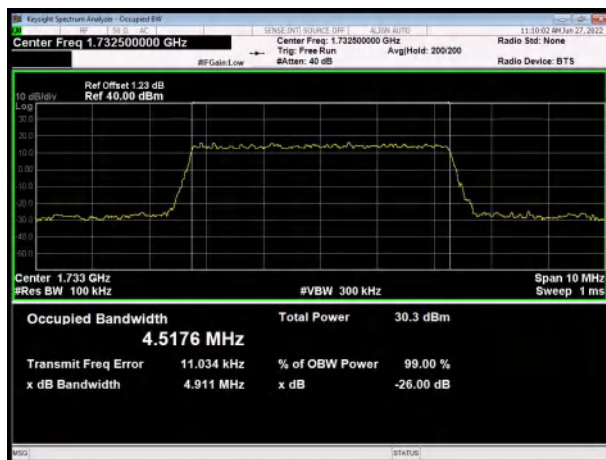
LTE Band 4 QPSK 5MHz CH-Low



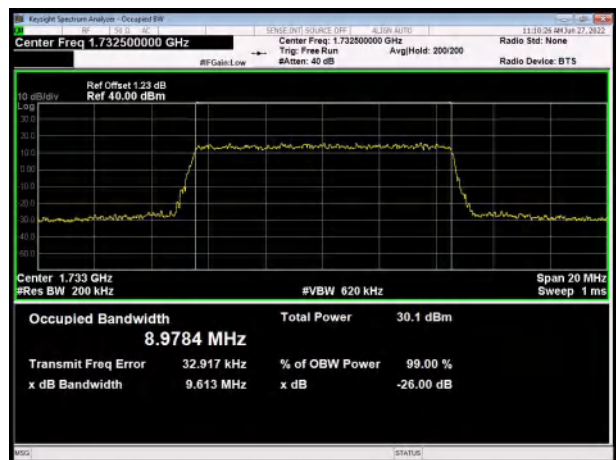
LTE Band 4 QPSK 10MHz CH-Low



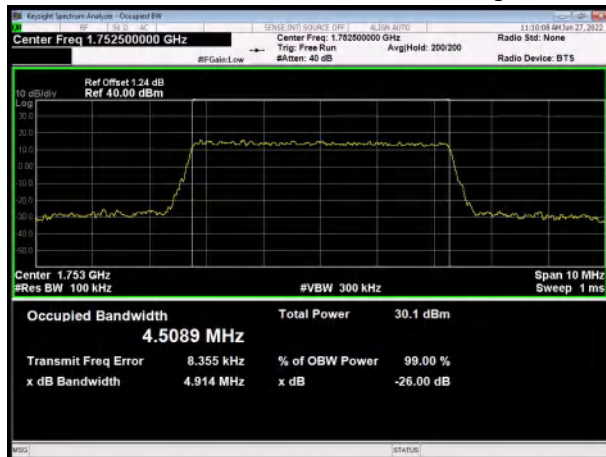
LTE Band 4 QPSK 5MHz CH-Middle



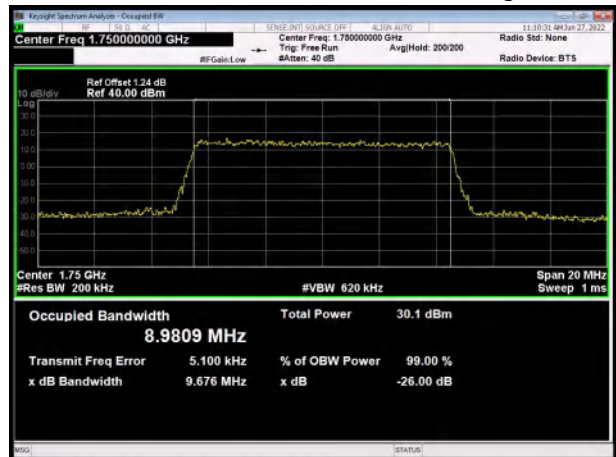
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

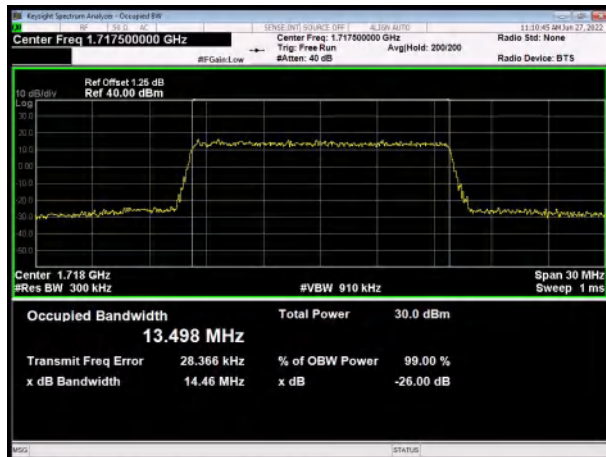


LTE Band 4 QPSK 10MHz CH-High

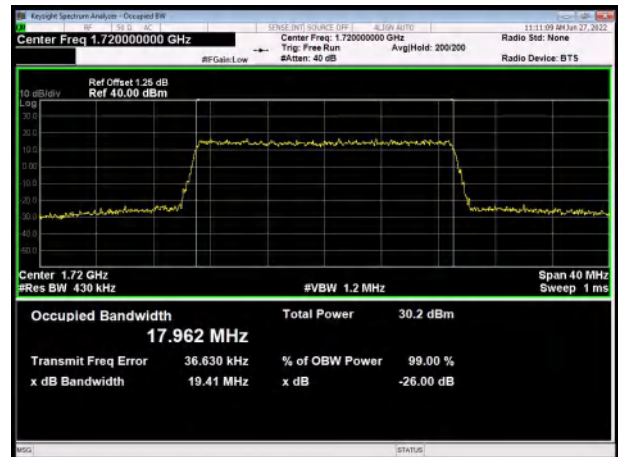




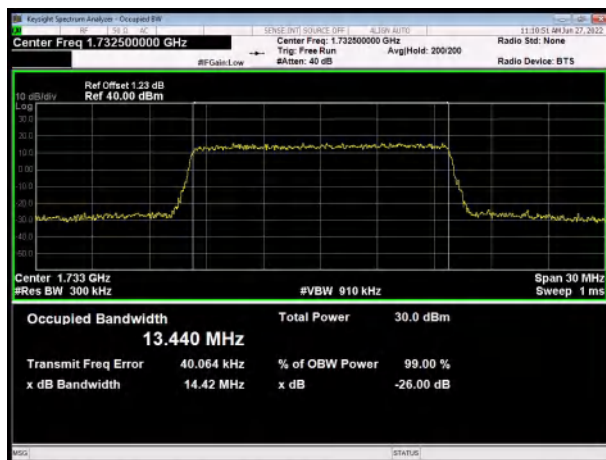
LTE Band 4 QPSK 15MHz CH-Low



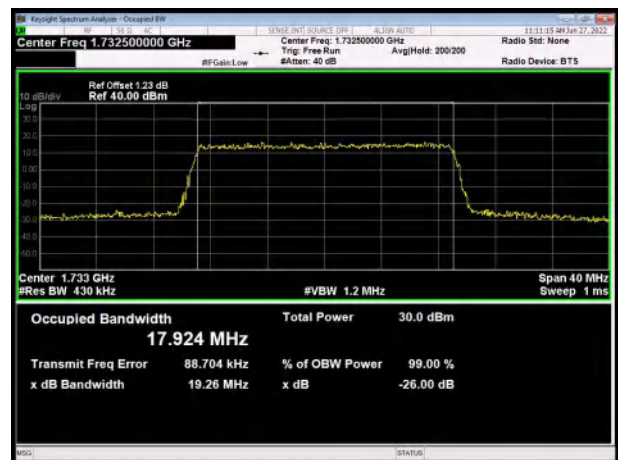
LTE Band 4 QPSK 20MHz CH-Low



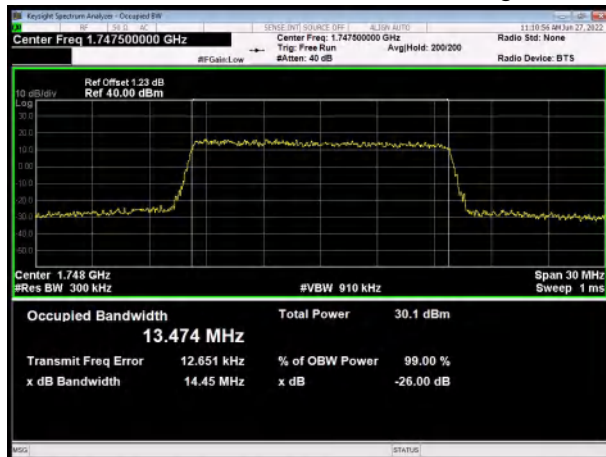
LTE Band 4 QPSK 15MHz CH-Middle



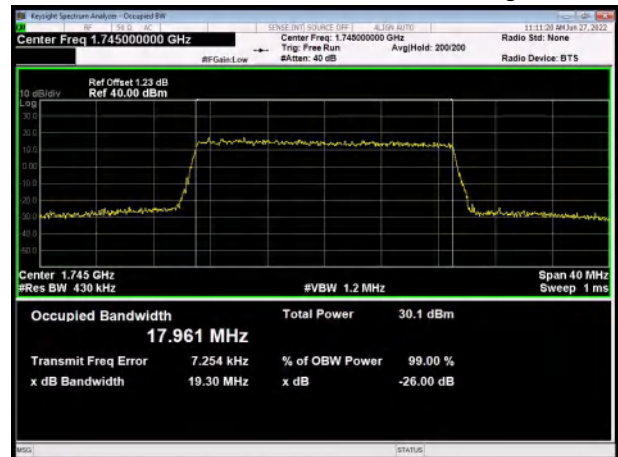
LTE Band 4 QPSK 20MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-High

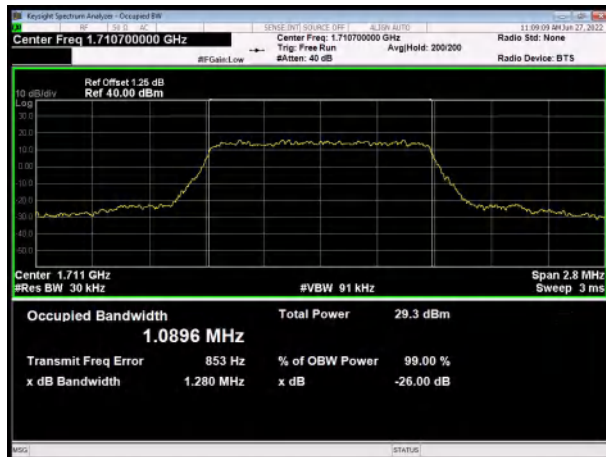


LTE Band 4 QPSK 20MHz CH-High

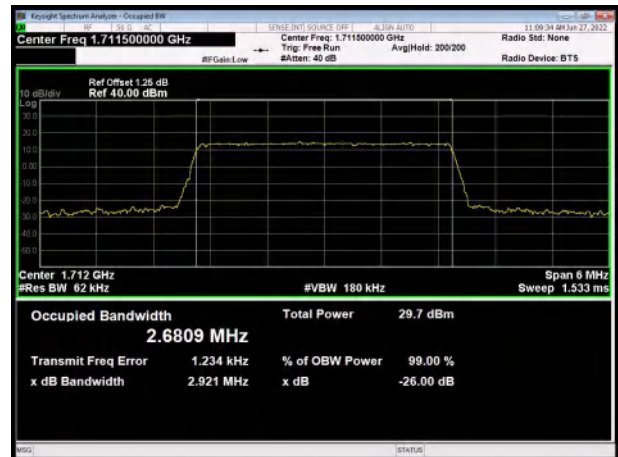




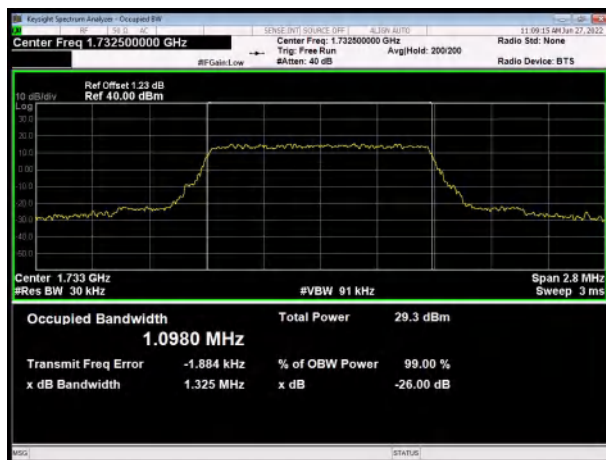
LTE Band 4 16QAM 1.4MHz CH-Low



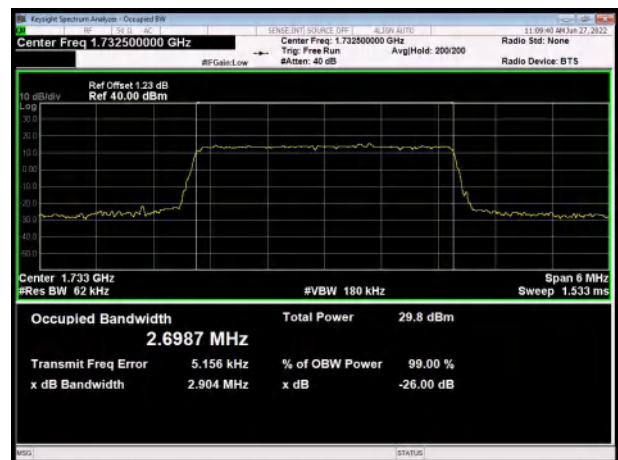
LTE Band 4 16QAM 3MHz CH-Low



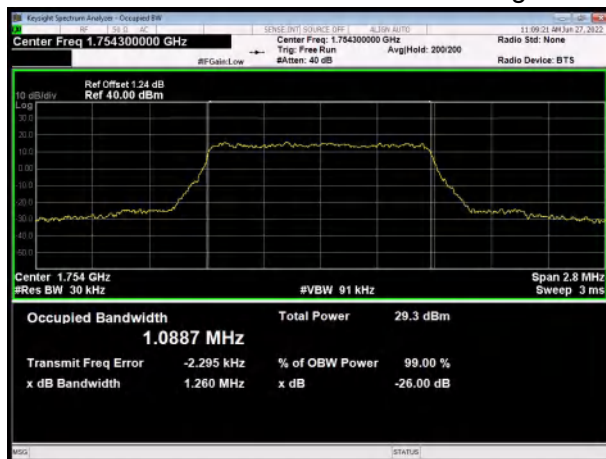
LTE Band 4 16QAM 1.4MHz CH-Middle



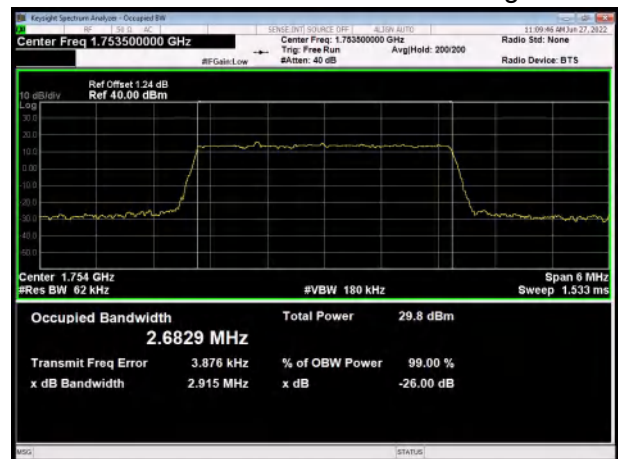
LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High

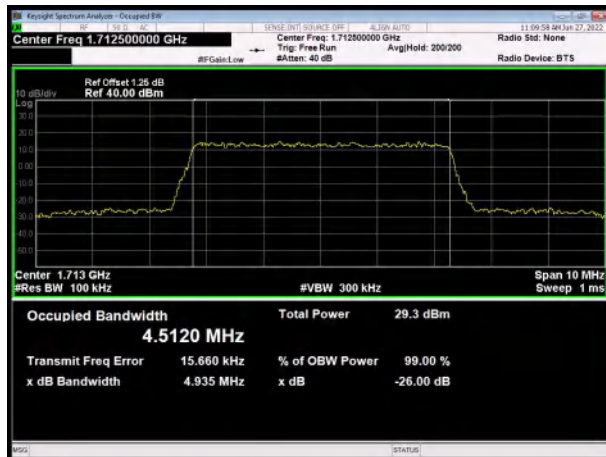


LTE Band 4 16QAM 3MHz CH-High

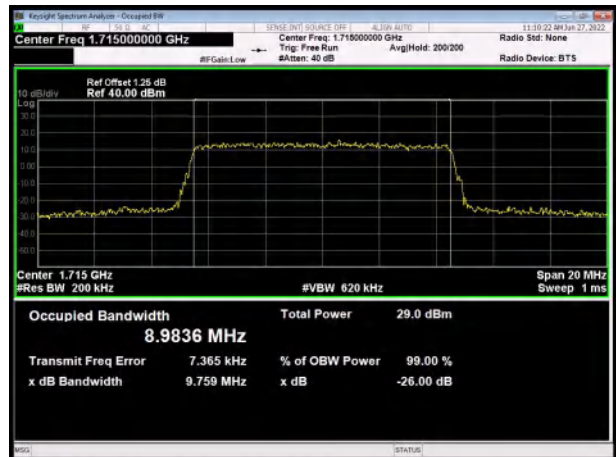




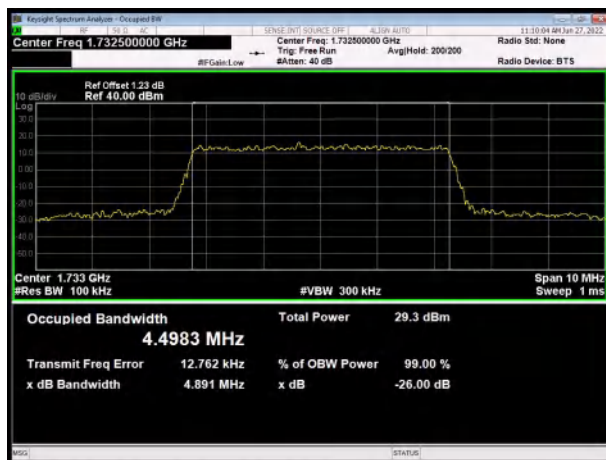
LTE Band 4 16QAM 5MHz CH-Low



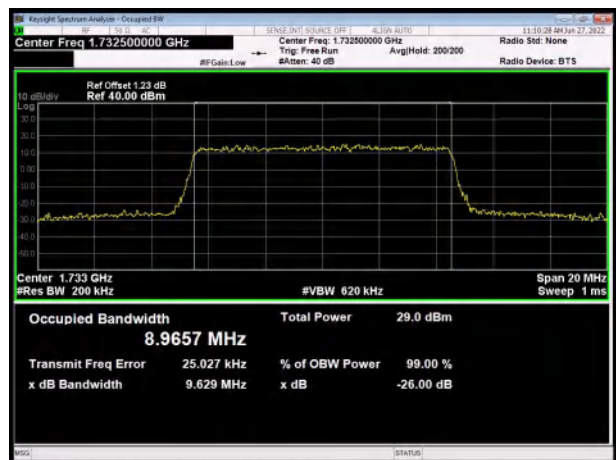
LTE Band 4 16QAM 10MHz CH-Low



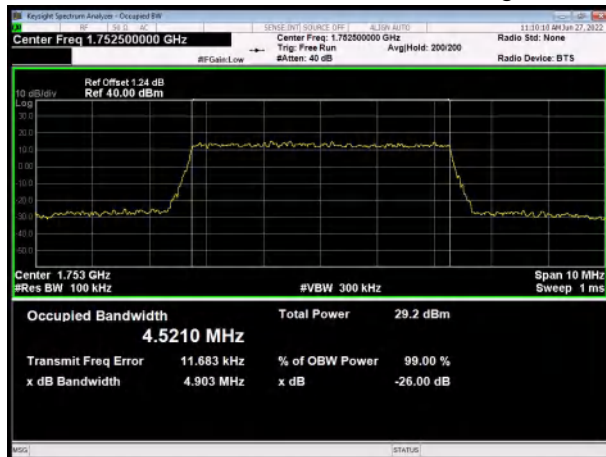
LTE Band 4 16QAM 5MHz CH-Middle



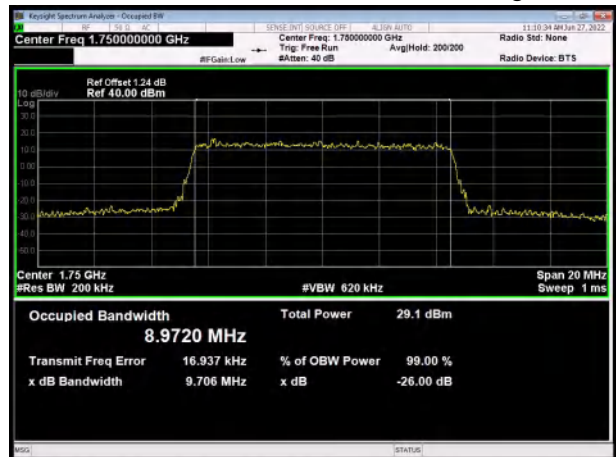
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

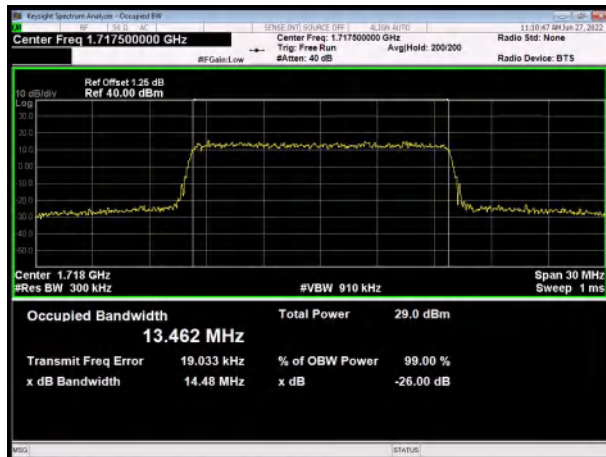


LTE Band 4 16QAM 10MHz CH-High

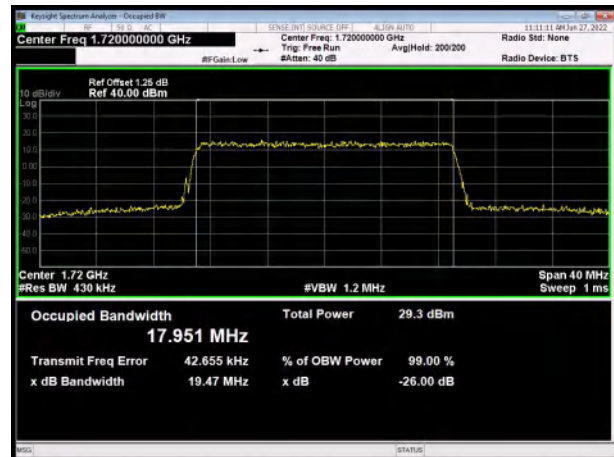




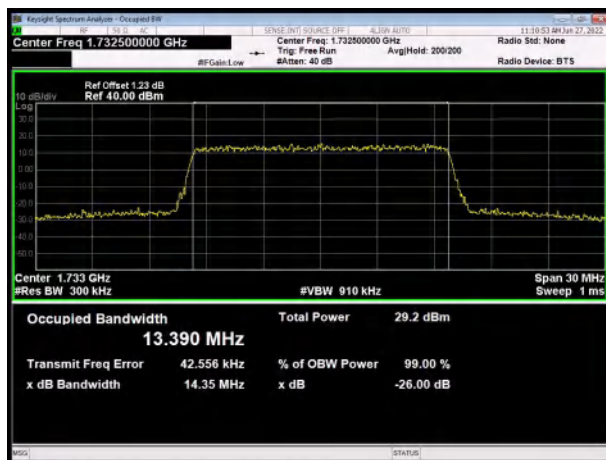
LTE Band 4 16QAM 15MHz CH-Low



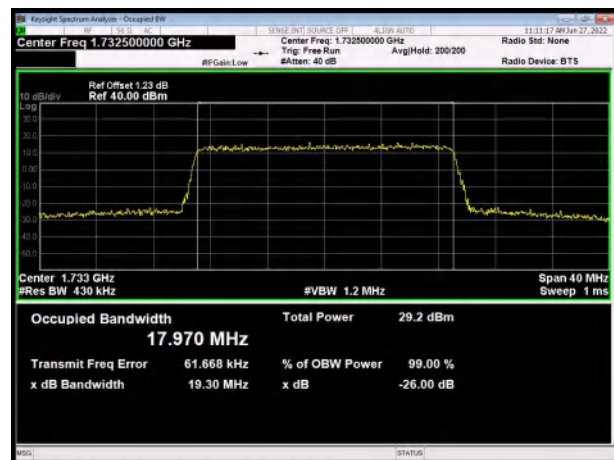
LTE Band 4 16QAM 20MHz CH-Low



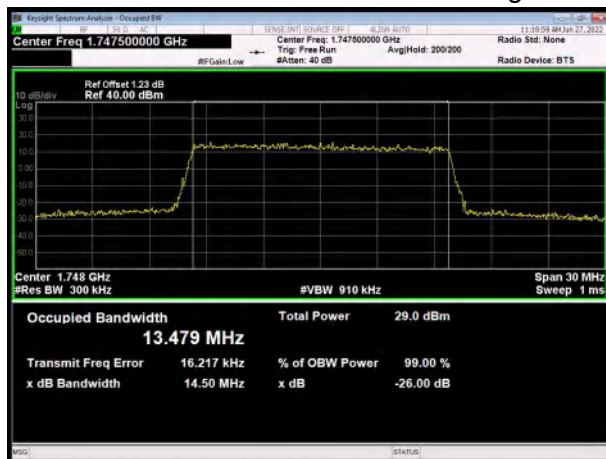
LTE Band 4 16QAM 15MHz CH-Middle



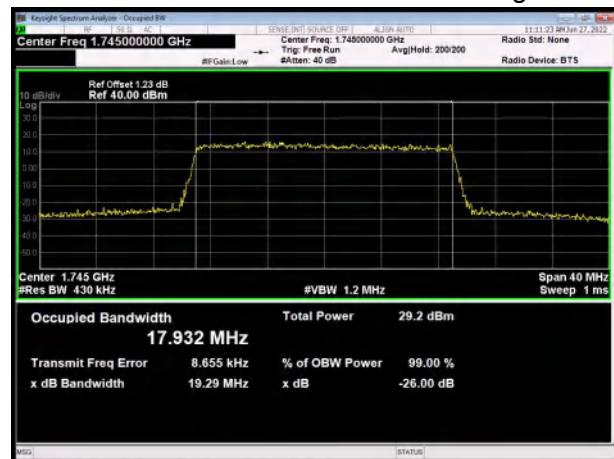
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High

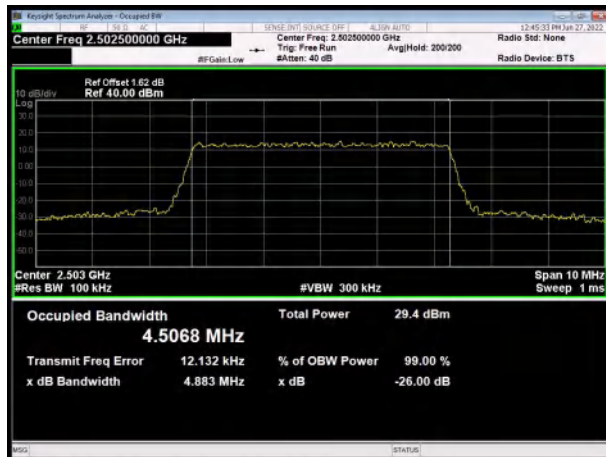


LTE Band 4 16QAM 20MHz CH-High

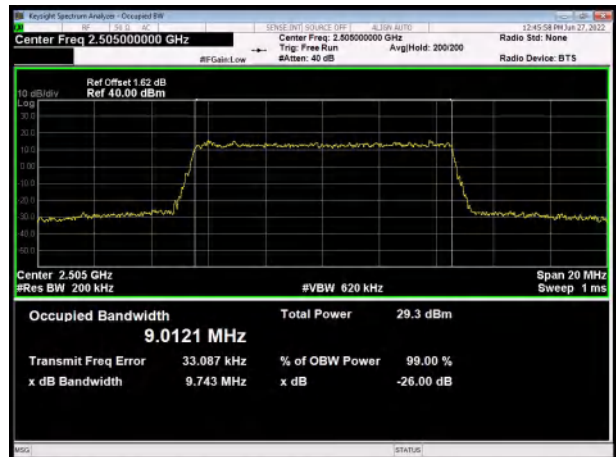




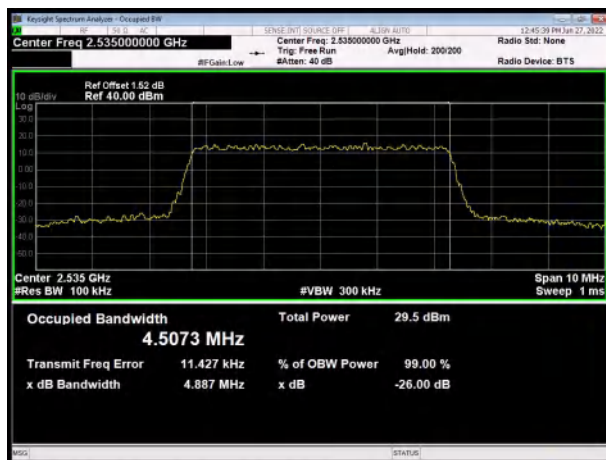
LTE Band 7 QPSK 5MHz CH-Low



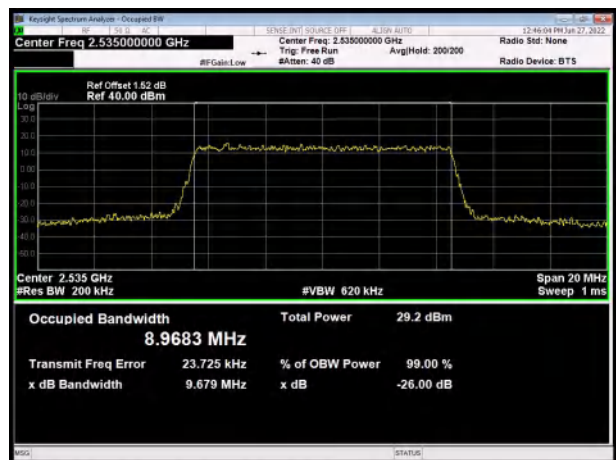
LTE Band 7 QPSK 10MHz CH-Low



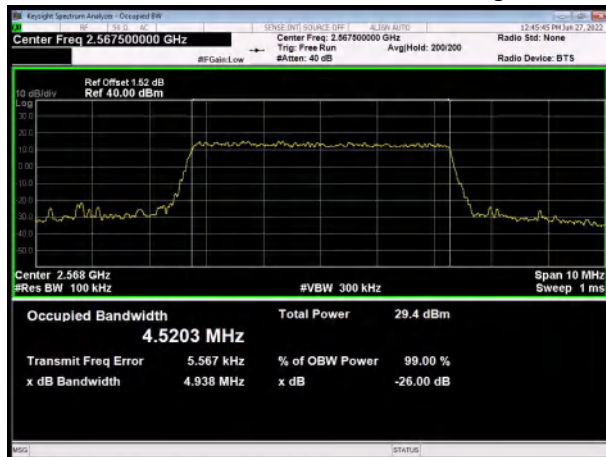
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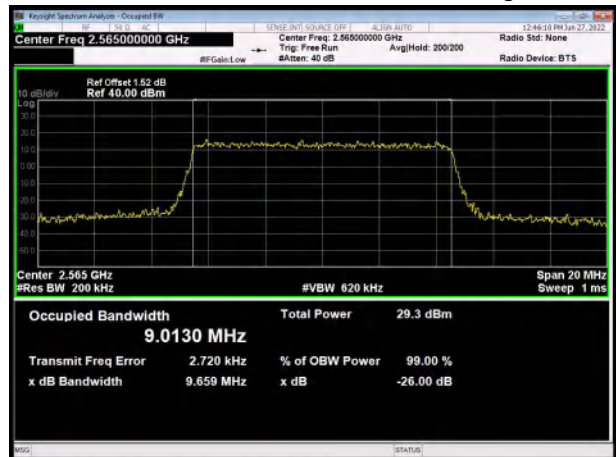
LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

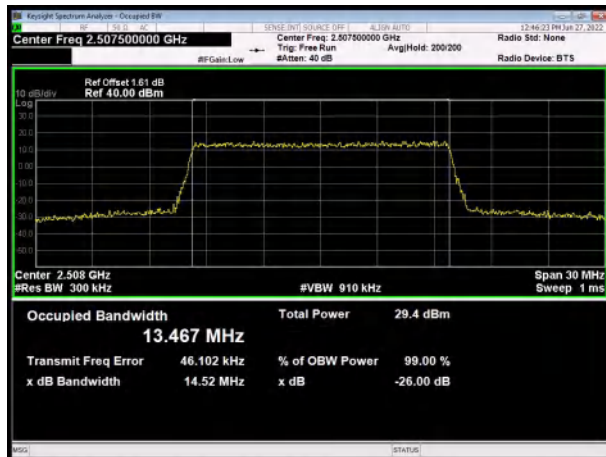


LTE Band 7 QPSK 10MHz CH-High

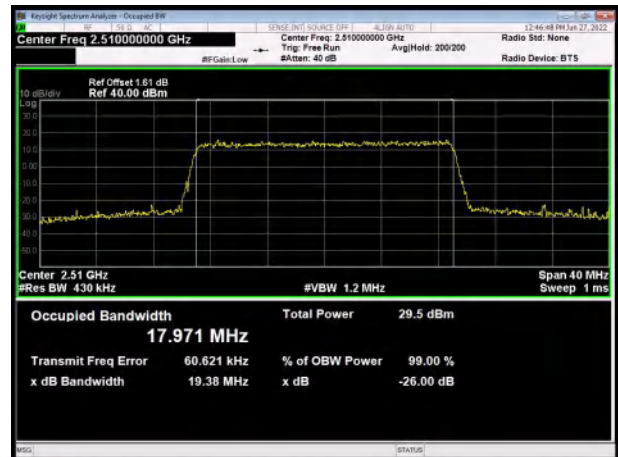




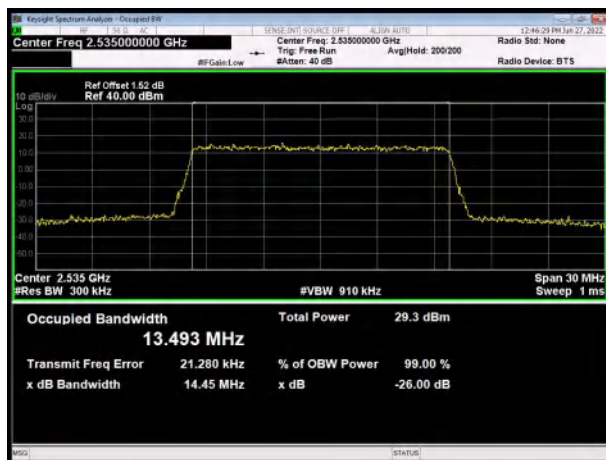
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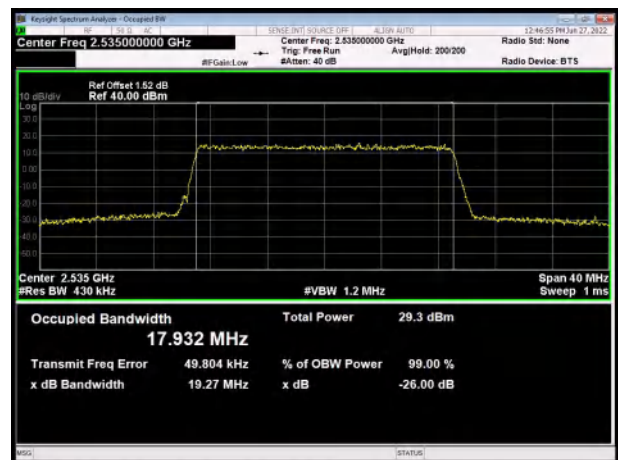
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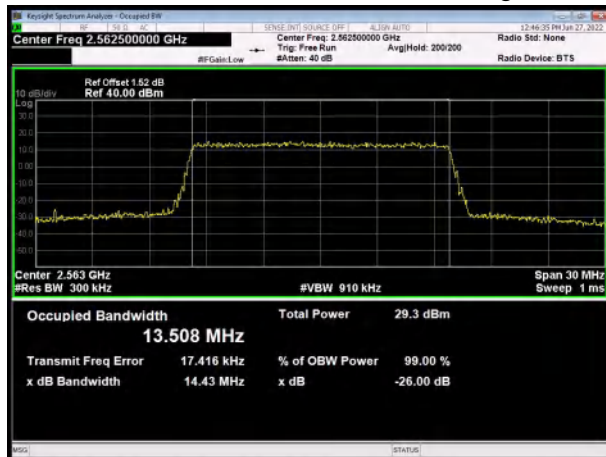
LTE Band 7 QPSK 15MHz CH-Middle



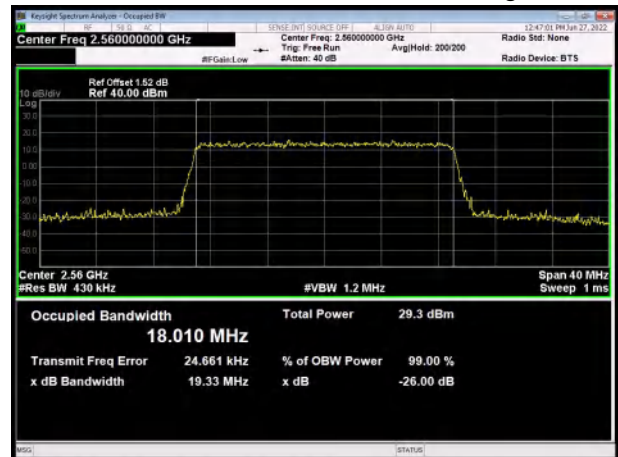
LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High

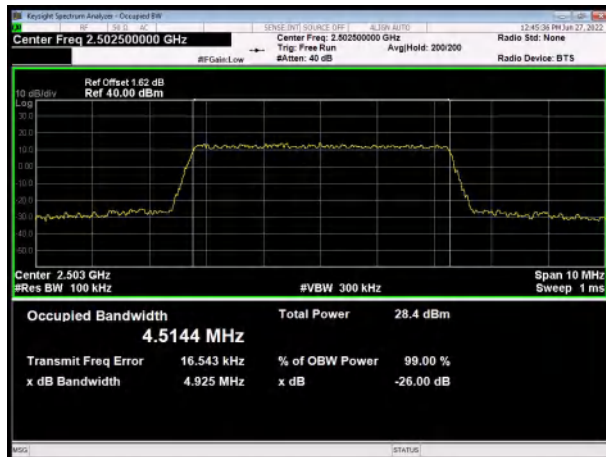


LTE Band 7 QPSK 20MHz CH-High

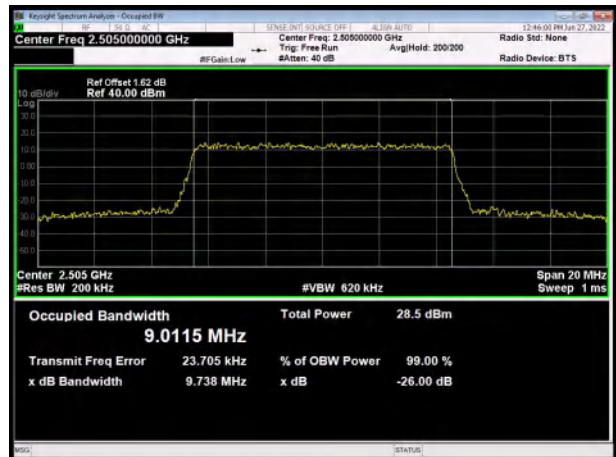




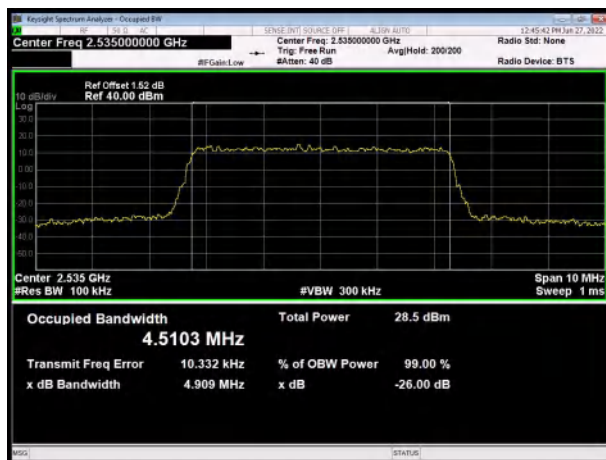
LTE Band 7 16QAM 5MHz CH-Low



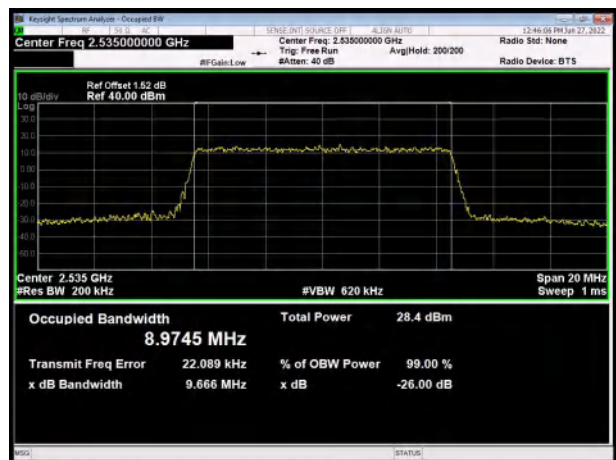
LTE Band 7 16QAM 10MHz CH-Low



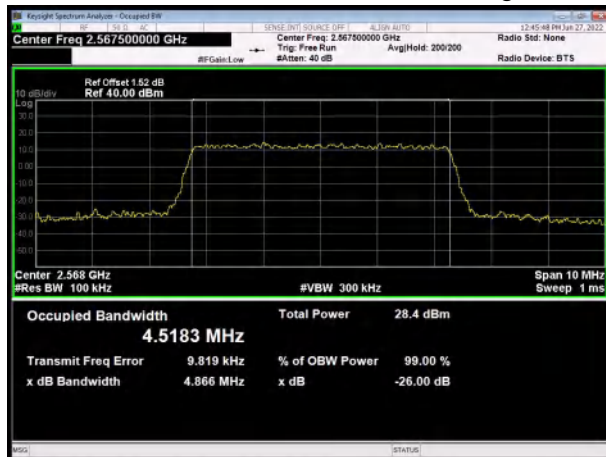
LTE Band 7 16QAM 5MHz CH-Middle



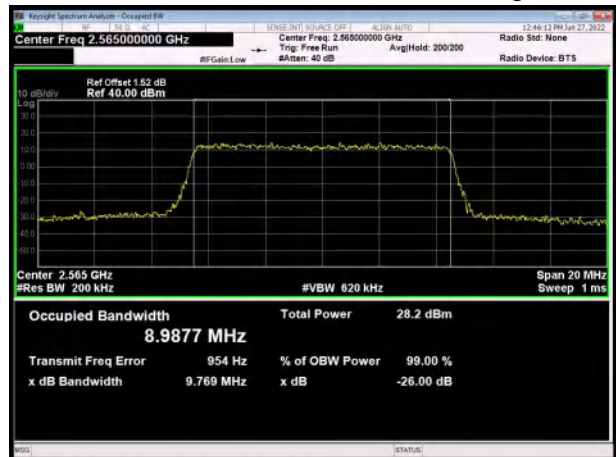
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High

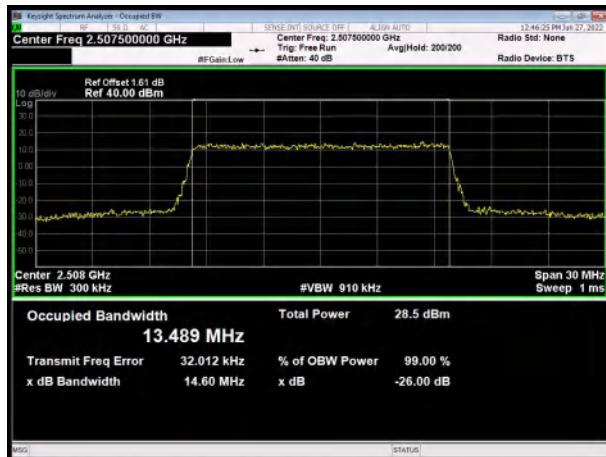


LTE Band 7 16QAM 10MHz CH-High

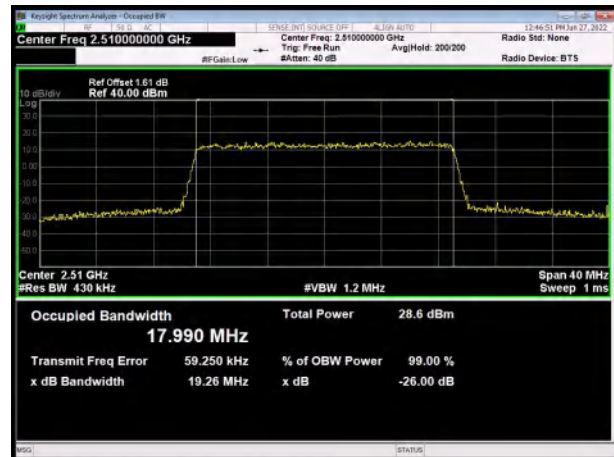




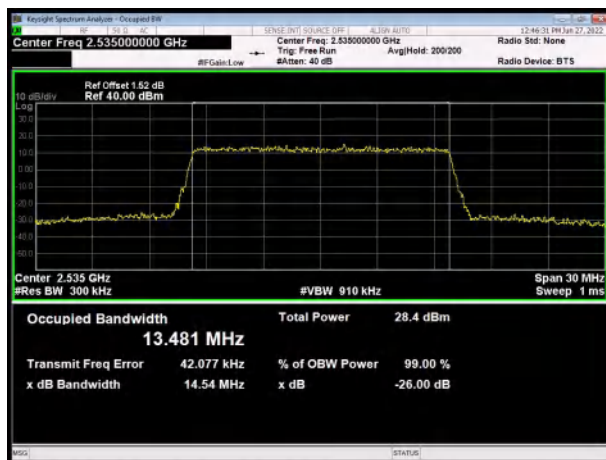
LTE Band 7 16QAM 15MHz CH-Low



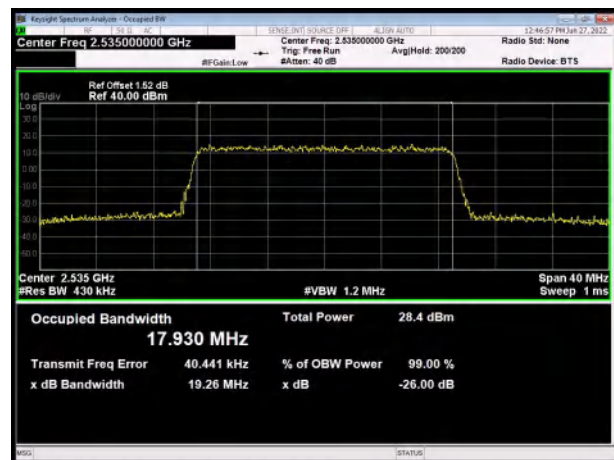
LTE Band 7 16QAM 20MHz CH-Low



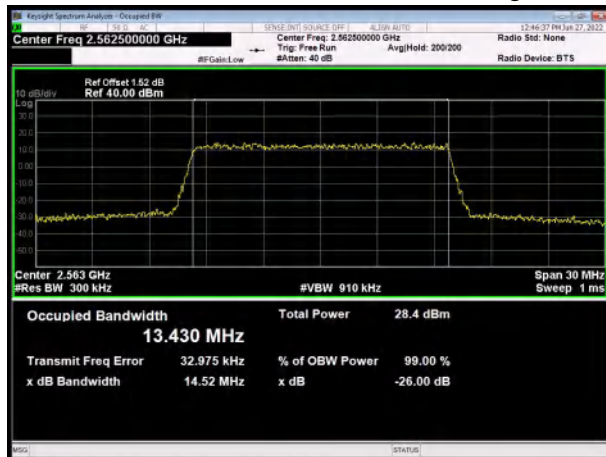
LTE Band 7 16QAM 15MHz CH-Middle



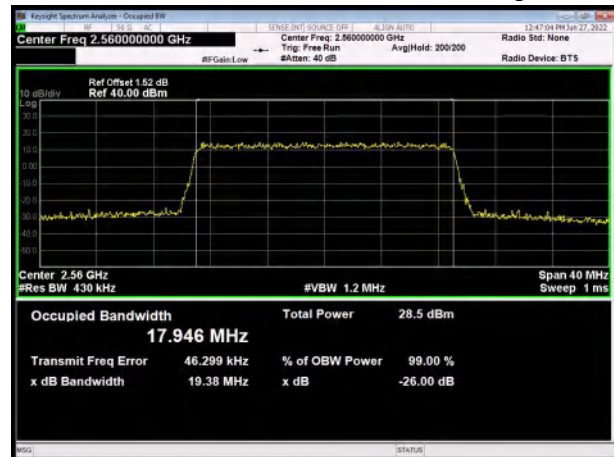
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High



LTE Band 7 16QAM 20MHz CH-High

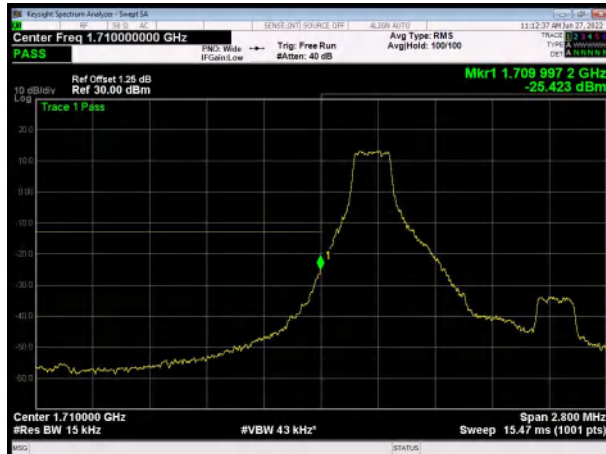




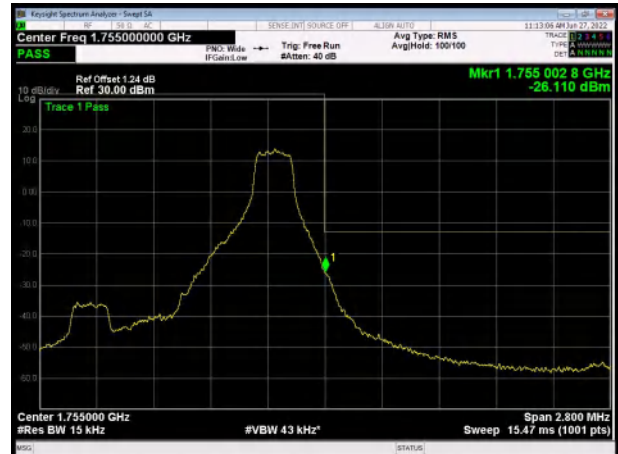
6.3 Band Edge Compliance

All the test traces in the plots shows the test results clearly.

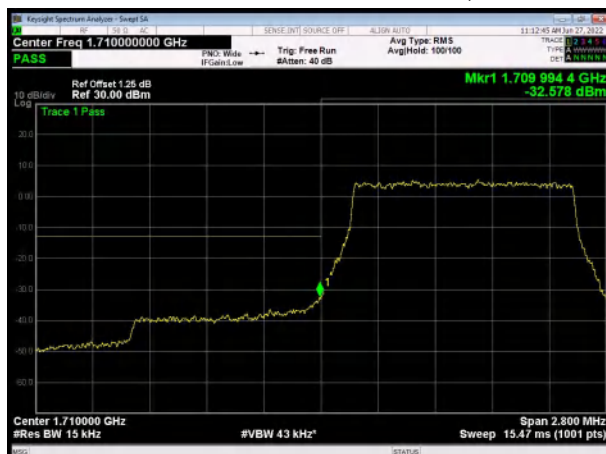
LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



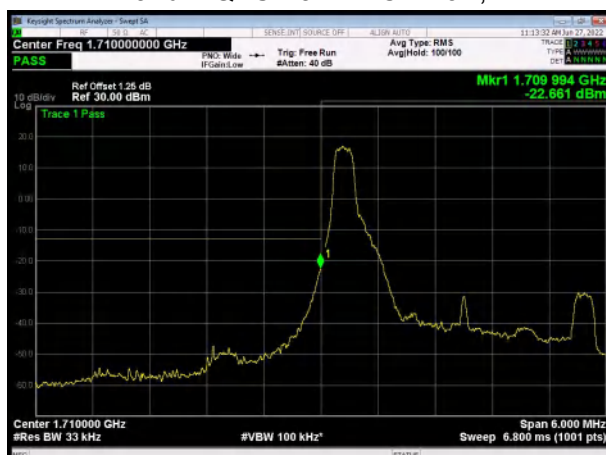
LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



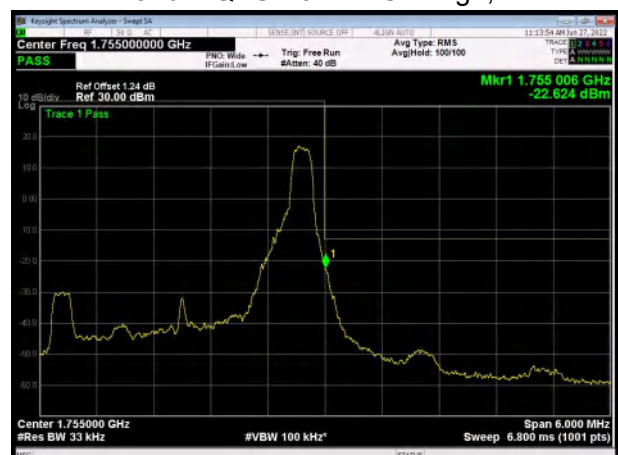
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



LTE Band 4 QPSK 3MHz CH-Low, 1 RB

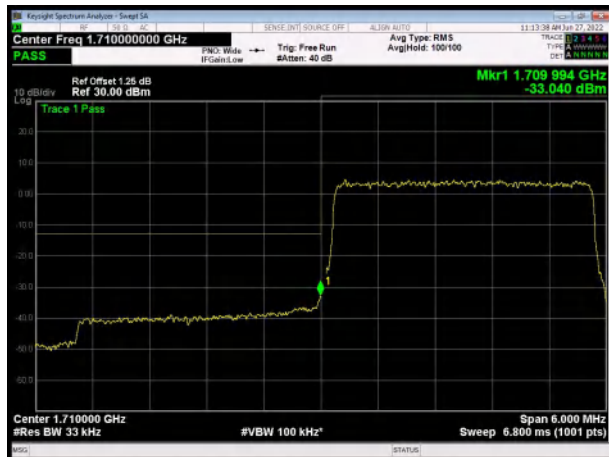


LTE Band 4 QPSK 3MHz CH-High, 1 RB





LTE Band 4 QPSK 3MHz CH-Low, 100%RB



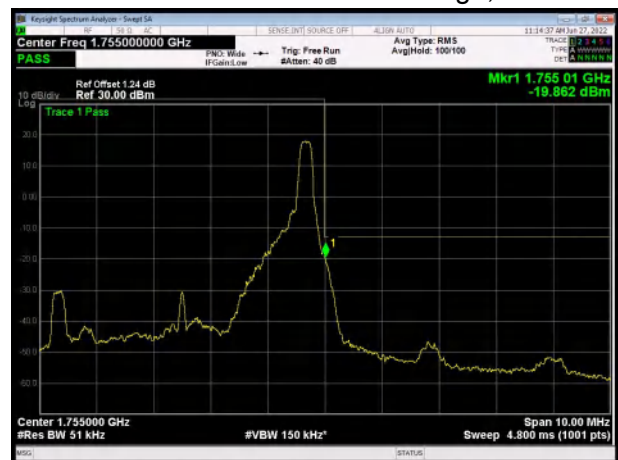
LTE Band 4 QPSK 3MHz CH-High, 100%RB



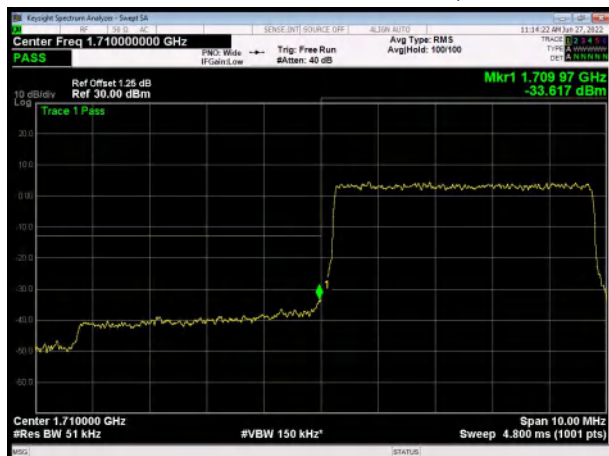
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



LTE Band 4 QPSK 5MHz CH-High, 1 RB



LTE Band 4 QPSK 5MHz CH-Low, 100%RB



LTE Band 4 QPSK 5MHz CH-High, 100%RB



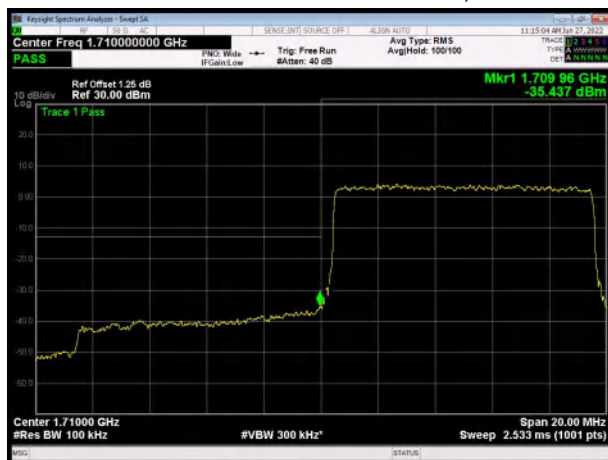
LTE Band 4 QPSK 10MHz CH-Low, 1 RB



LTE Band 4 QPSK 10MHz CH-High, 1 RB



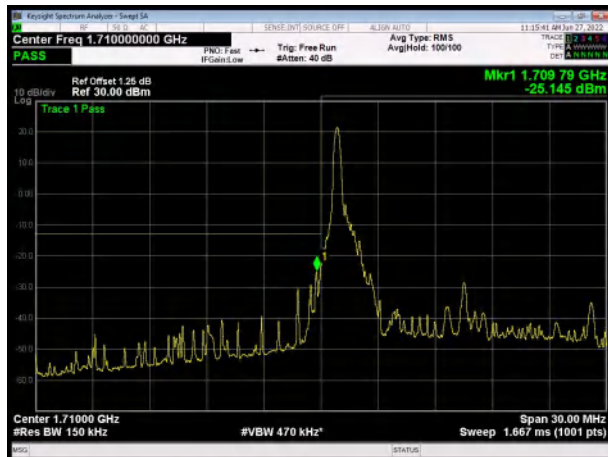
LTE Band 4 QPSK 10MHz CH-Low, 100%RB



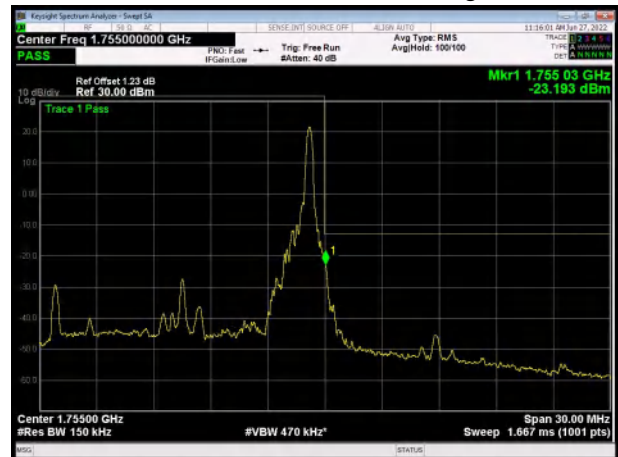
LTE Band 4 QPSK 10MHz CH-High, 100%RB



LTE Band 4 QPSK 15MHz CH-Low, 1 RB

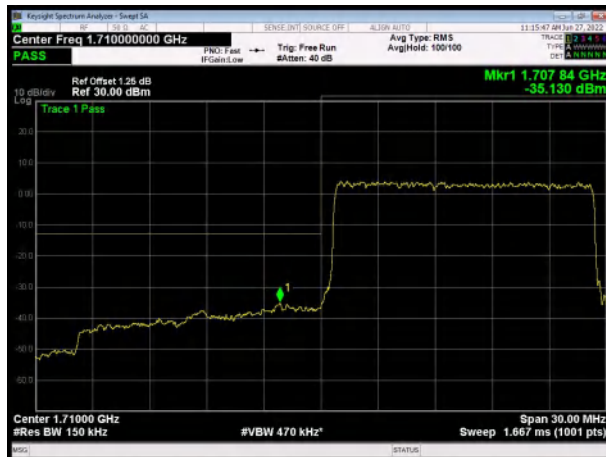


LTE Band 4 QPSK 15MHz CH-High, 1 RB

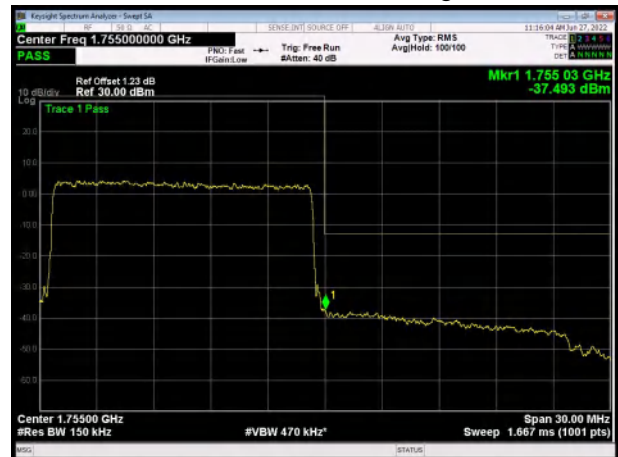




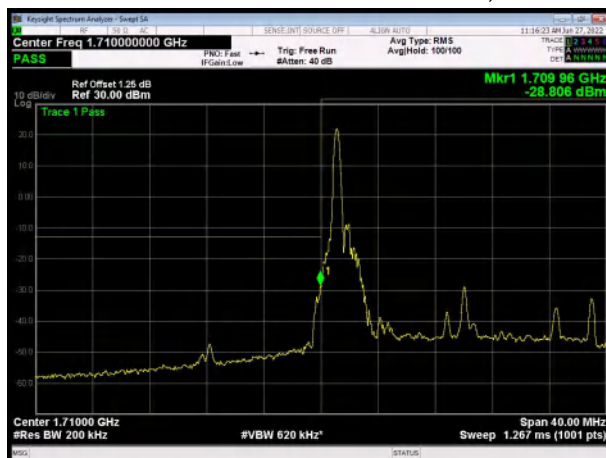
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



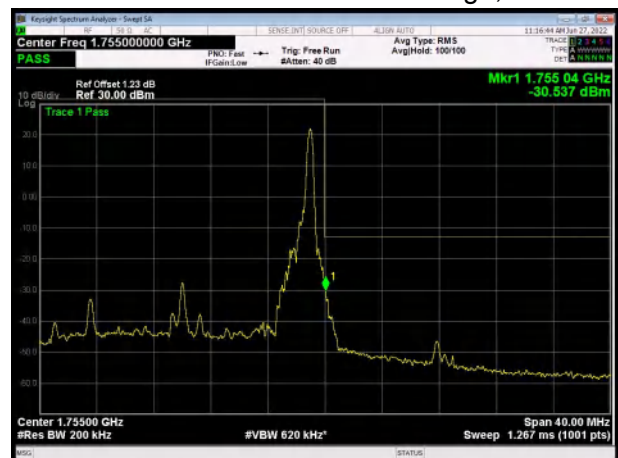
LTE Band 4 QPSK 15MHz CH-High, 100%RB



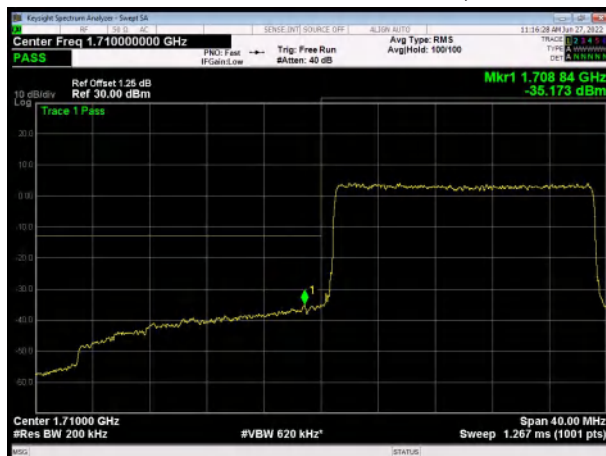
LTE Band 4 QPSK 20MHz CH-Low, 1 RB



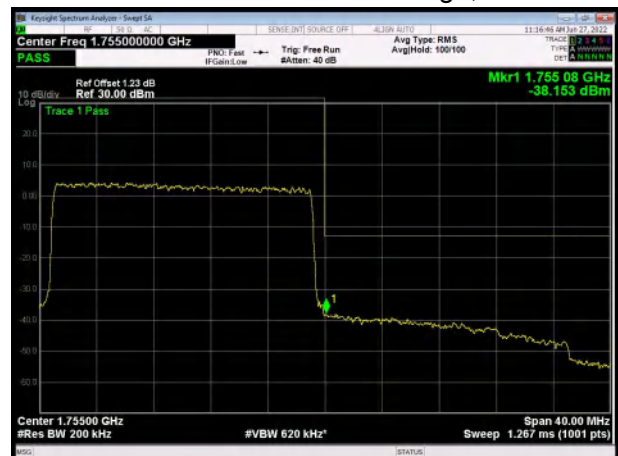
LTE Band 4 QPSK 20MHz CH-High, 1 RB



LTE Band 4 QPSK 20MHz CH-Low, 100%RB

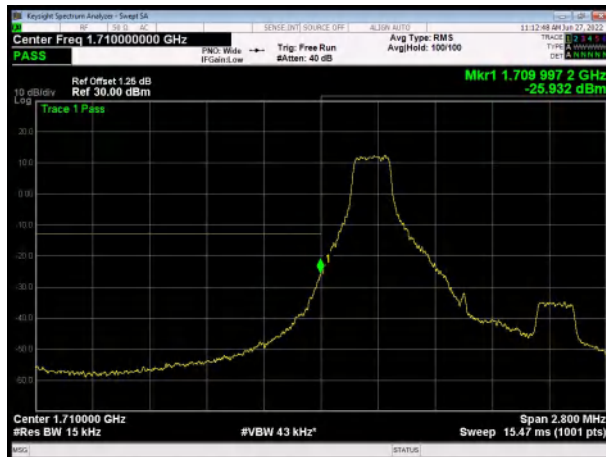


LTE Band 4 QPSK 20MHz CH-High, 100%RB

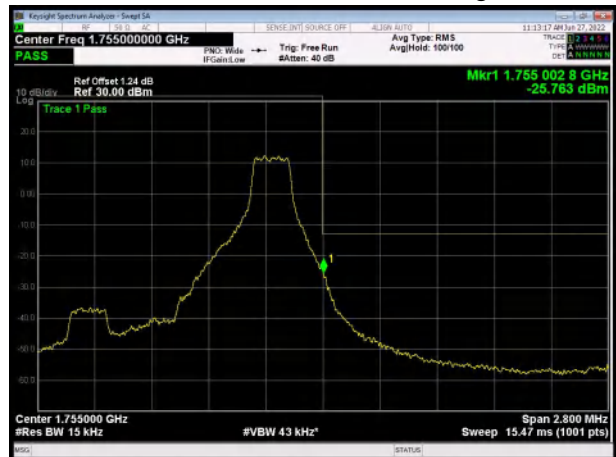




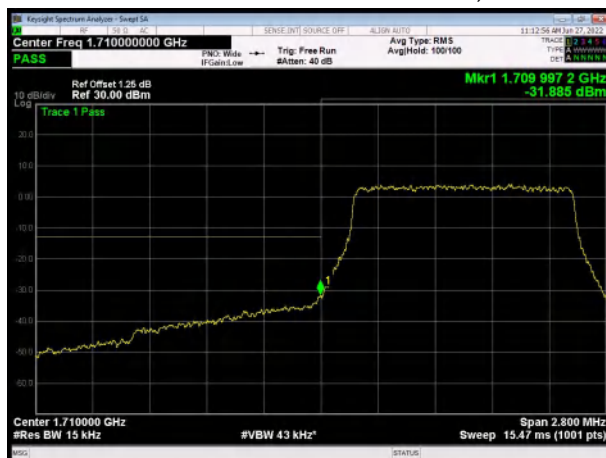
LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



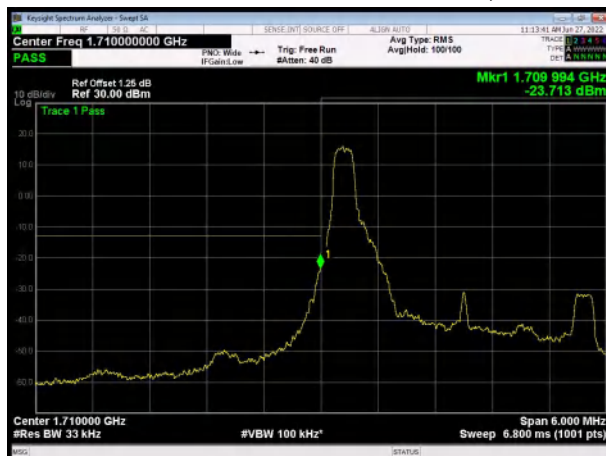
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



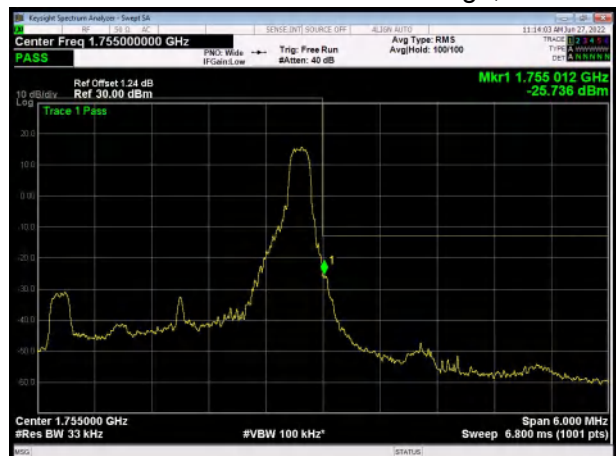
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



LTE Band 4 16QAM 3MHz CH-Low, 1 RB

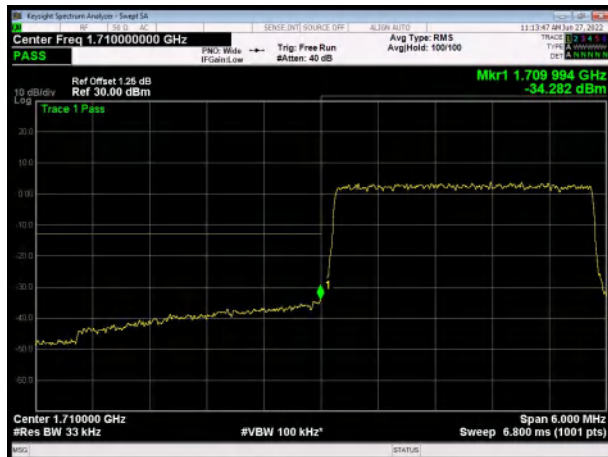


LTE Band 4 16QAM 3MHz CH-High, 1 RB

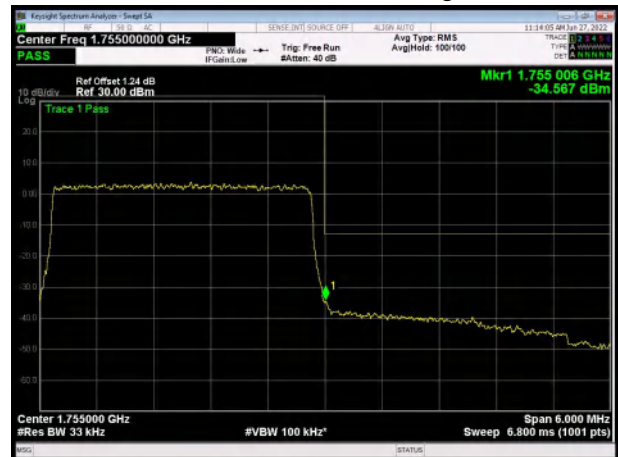




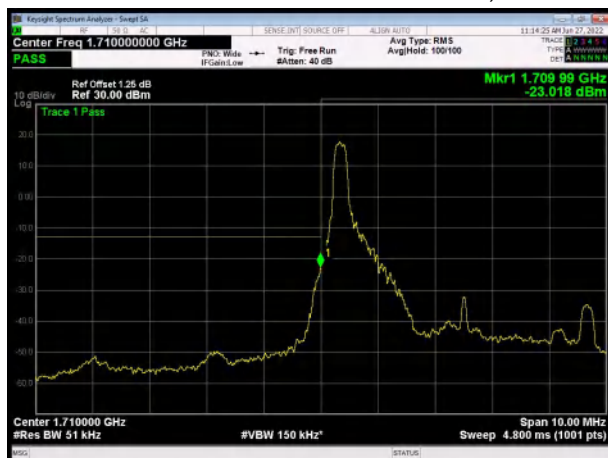
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



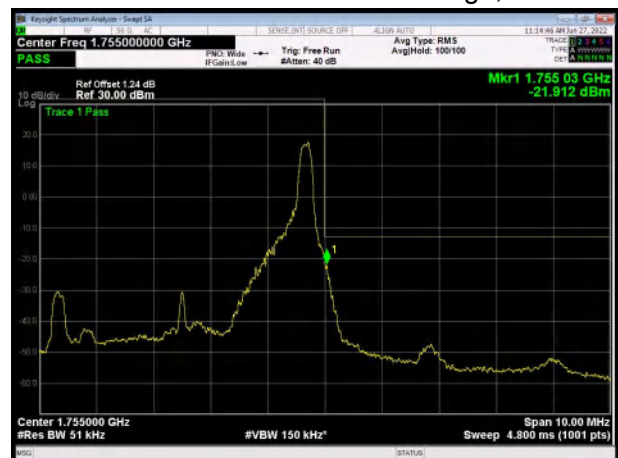
LTE Band 4 16QAM 3MHz CH-High, 100%RB



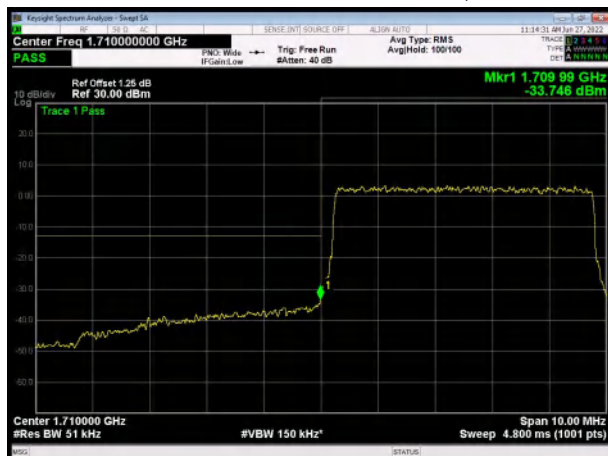
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



LTE Band 4 16QAM 5MHz CH-High, 1 RB



LTE Band 4 16QAM 5MHz CH-Low, 100%RB



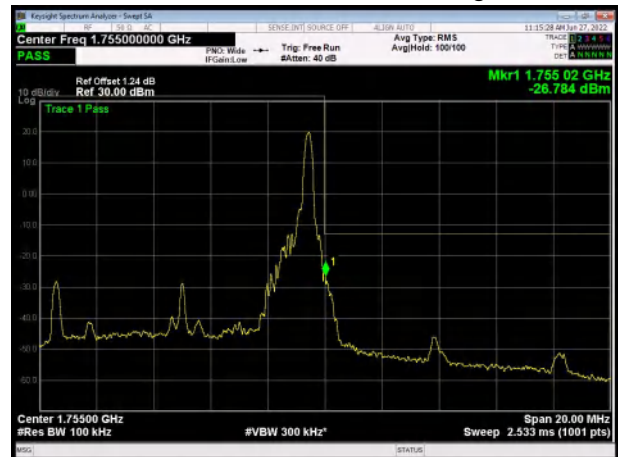
LTE Band 4 16QAM 5MHz CH-High, 100%RB



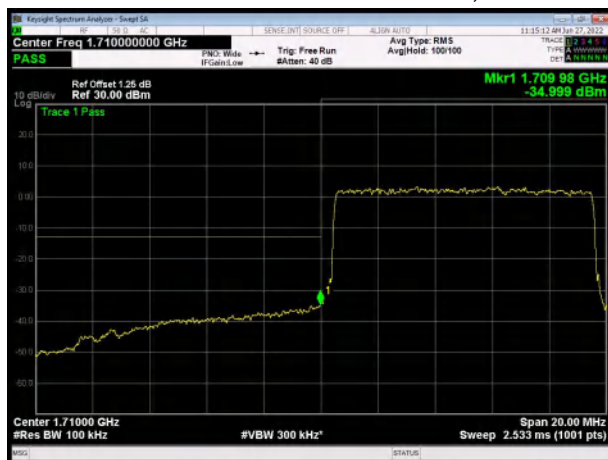
LTE Band 4 16QAM 10MHz CH-Low, 1 RB



LTE Band 4 16QAM 10MHz CH-High, 1 RB



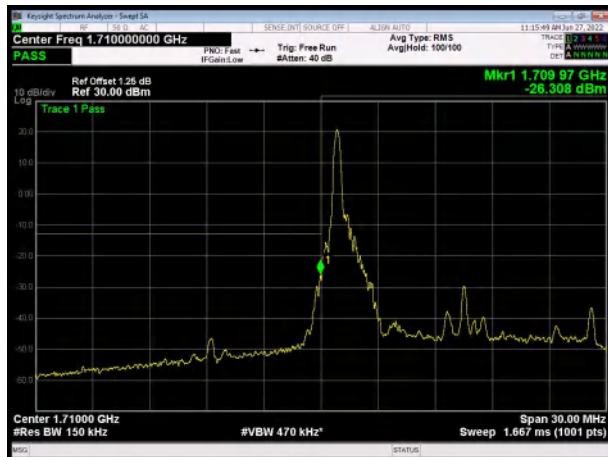
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



LTE Band 4 16QAM 10MHz CH-High, 100%RB



LTE Band 4 16QAM 15MHz CH-Low, 1 RB

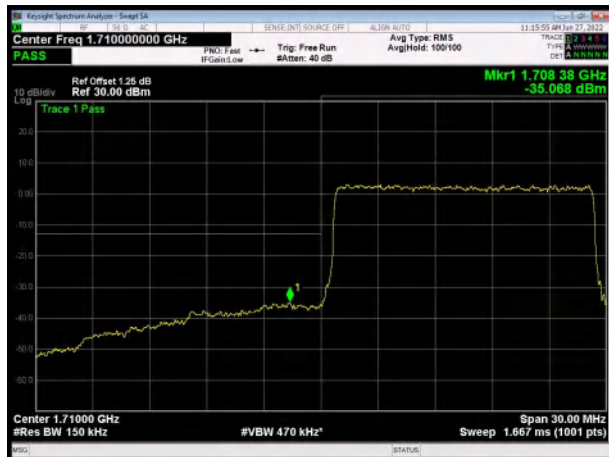


LTE Band 4 16QAM 15MHz CH-High, 1 RB





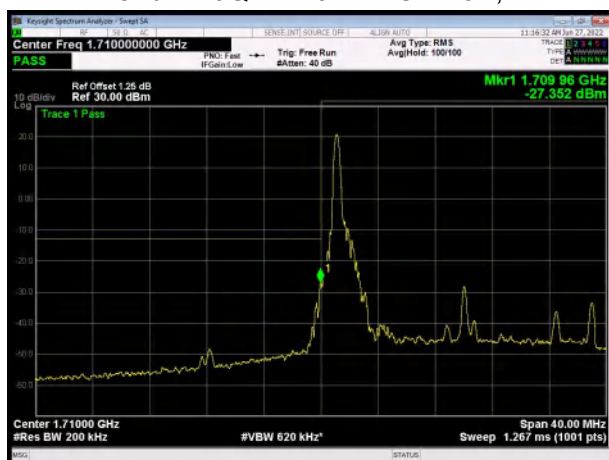
LTE Band 4 16QAM 15MHz CH-Low, 100%RB



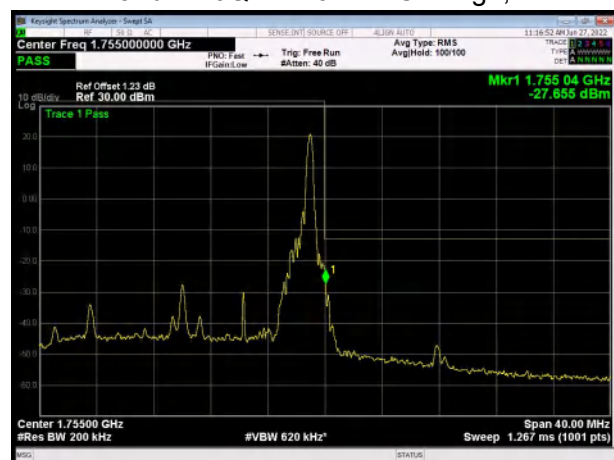
LTE Band 4 16QAM 15MHz CH-High, 100%RB



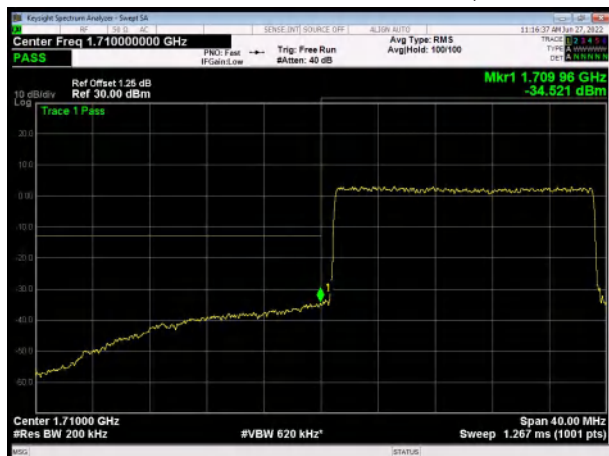
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



LTE Band 4 16QAM 20MHz CH-High, 1 RB



LTE Band 4 16QAM 20MHz CH-Low, 100%RB

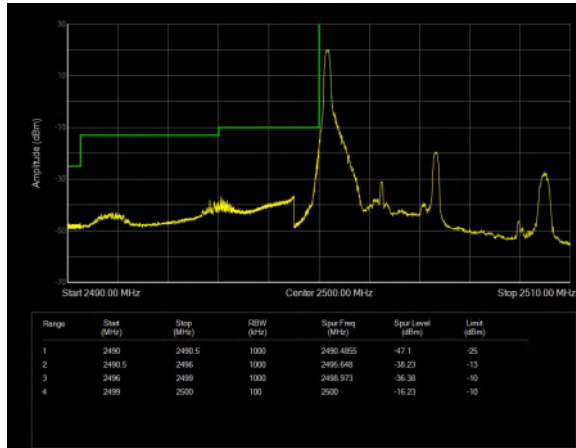


LTE Band 4 16QAM 20MHz CH-High, 100%RB

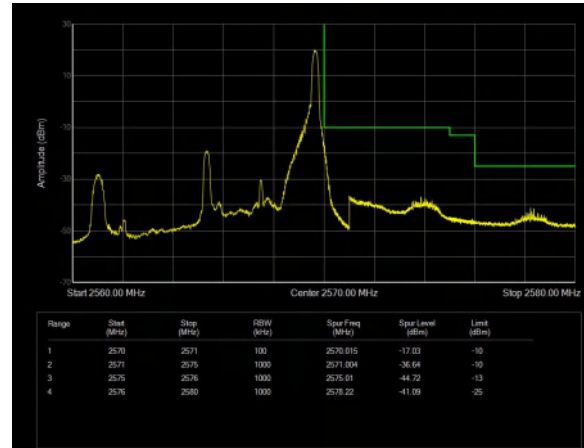




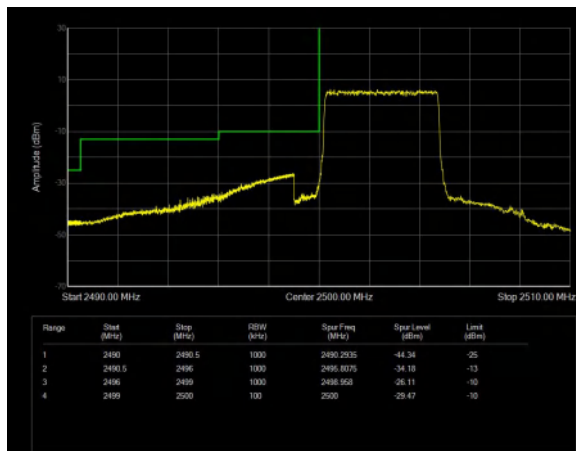
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



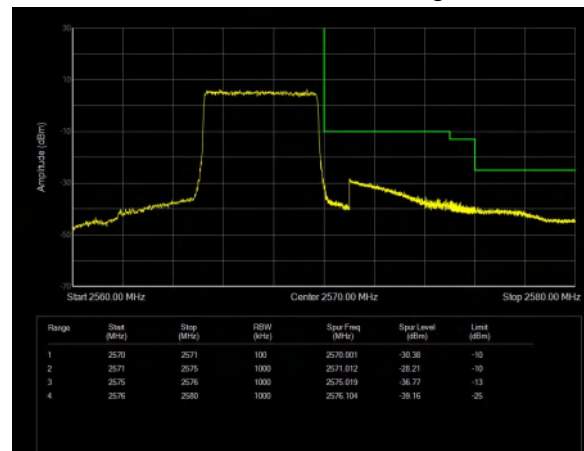
LTE Band 7 QPSK 5MHz CH-High, 1 RB



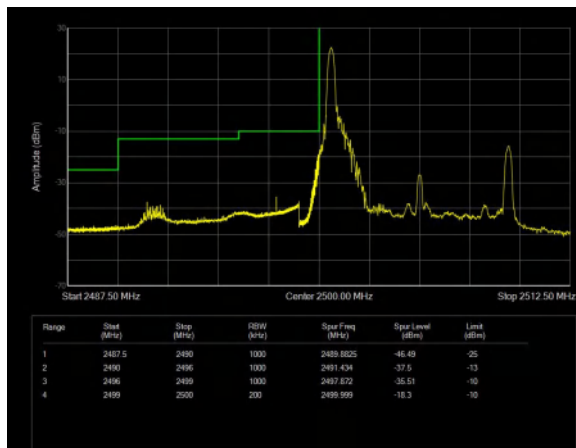
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



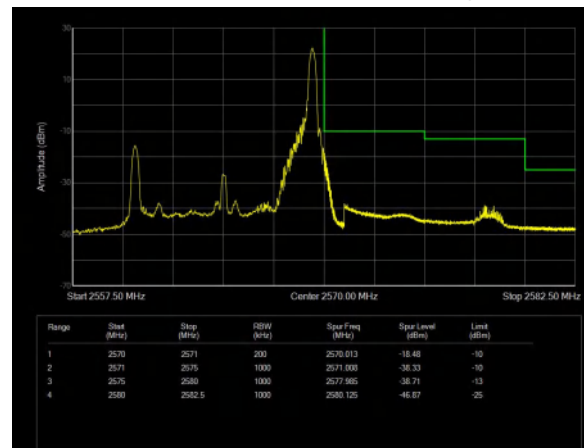
LTE Band 7 QPSK 5MHz CH-High, 100%RB



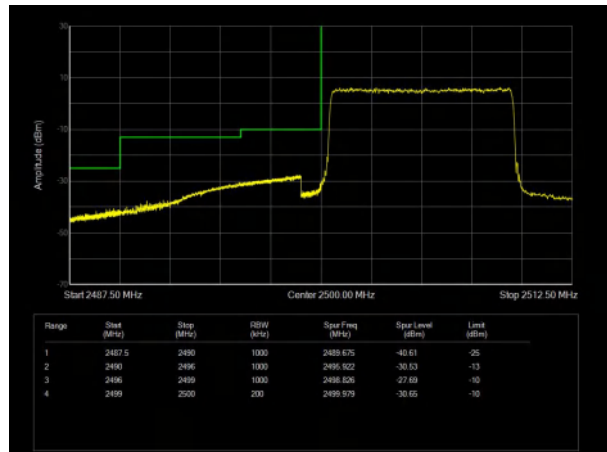
LTE Band 7 QPSK 10MHz CH-Low, 1 RB



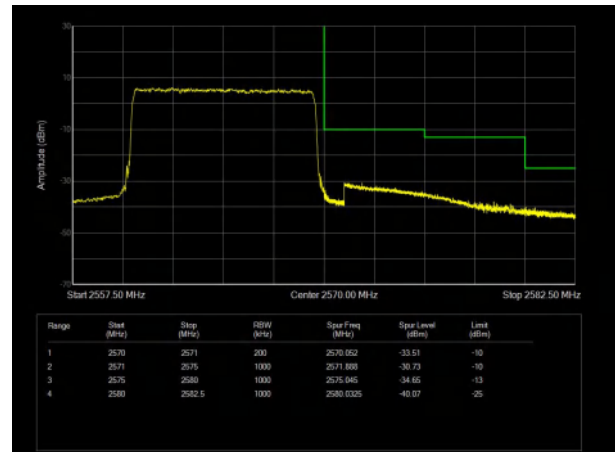
LTE Band 7 QPSK 10MHz CH-High, 1 RB



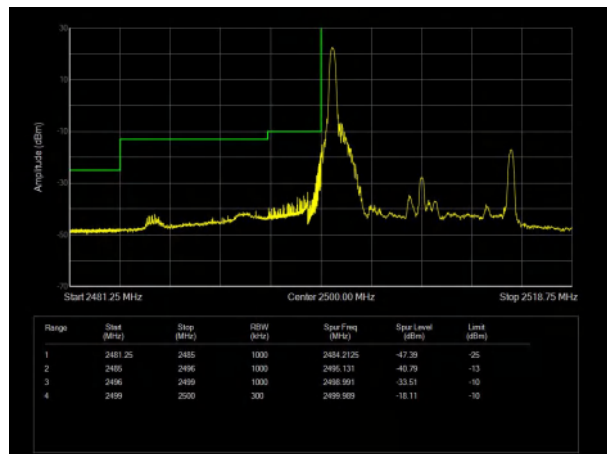
LTE Band 7 QPSK 10MHz CH-Low, 100%RB



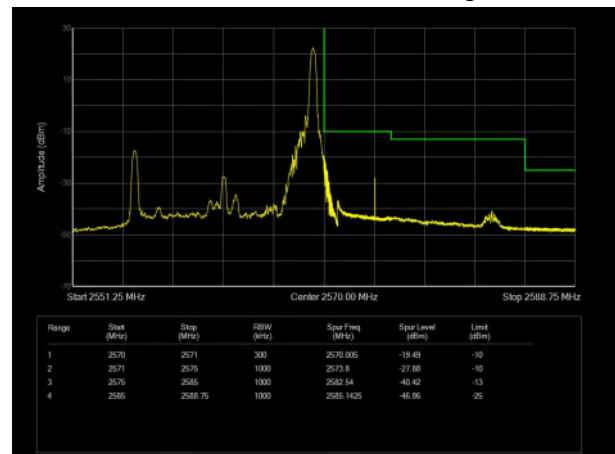
LTE Band 7 QPSK 10MHz CH-High, 100%RB



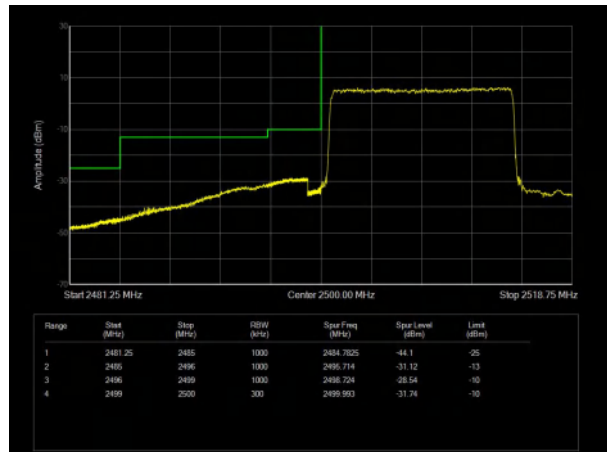
LTE Band 7 QPSK 15MHz CH-Low, 1 RB



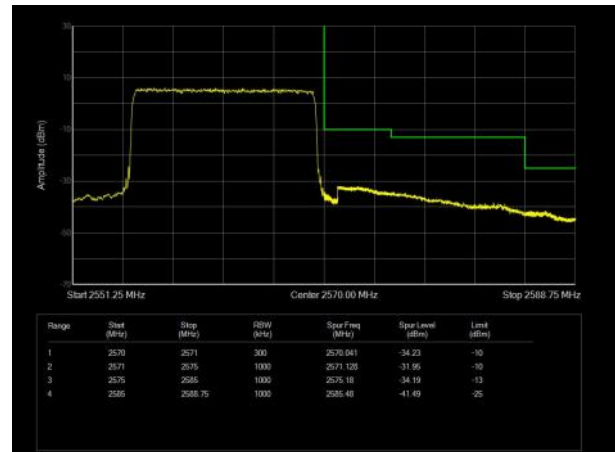
LTE Band 7 QPSK 15MHz CH-High, 1 RB



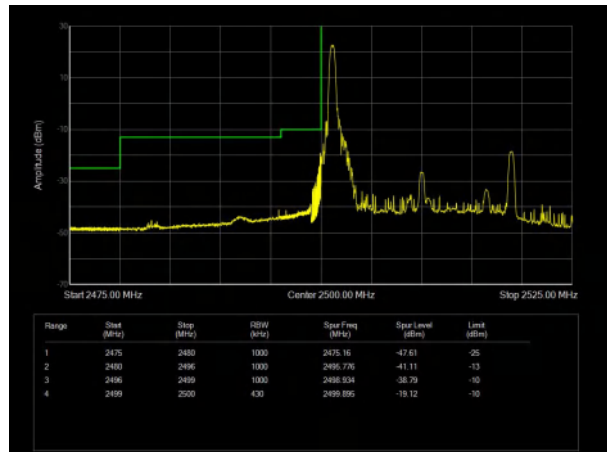
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



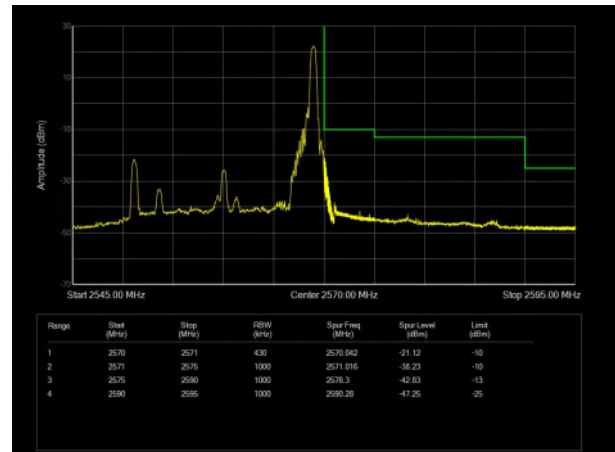
LTE Band 7 QPSK 15MHz CH-High, 100%RB



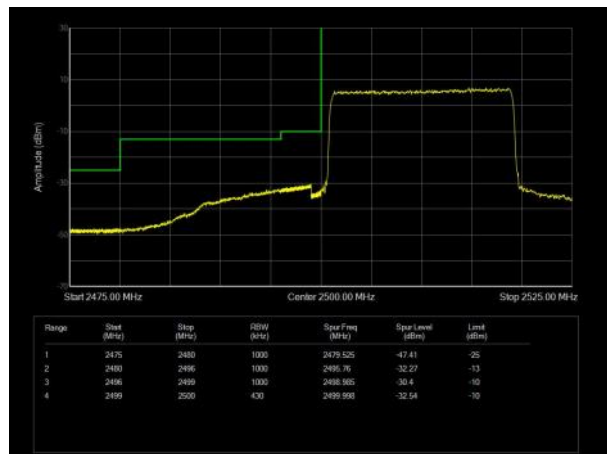
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



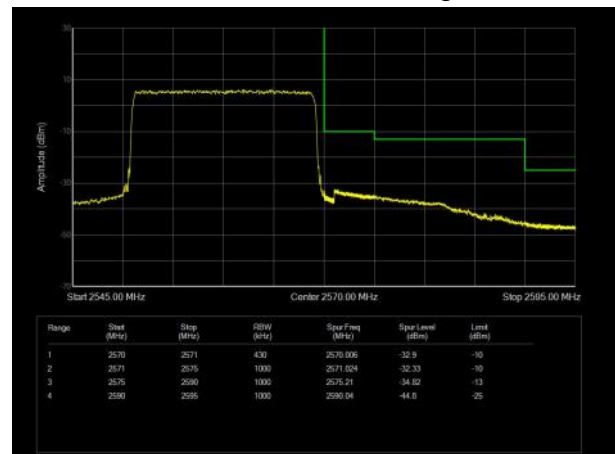
LTE Band 7 QPSK 20MHz CH-High, 1 RB



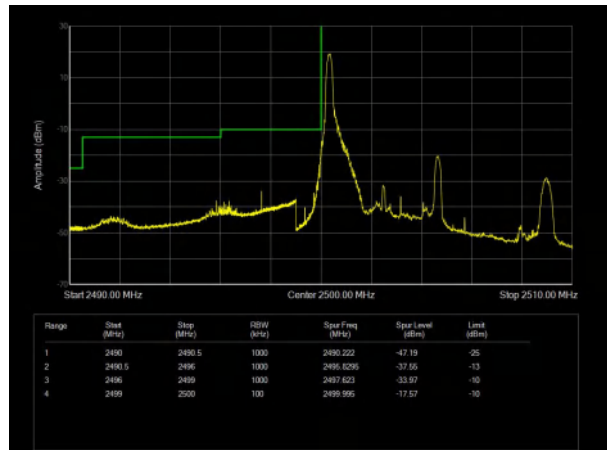
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



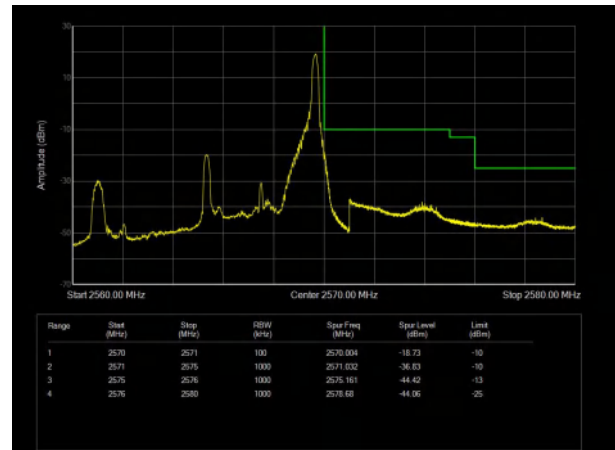
LTE Band 7 QPSK 20MHz CH-High, 100%RB



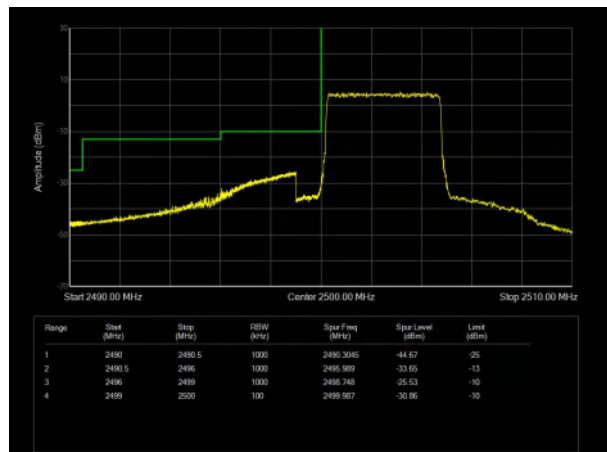
LTE Band 7 16QAM 5MHz CH-Low, 1 RB



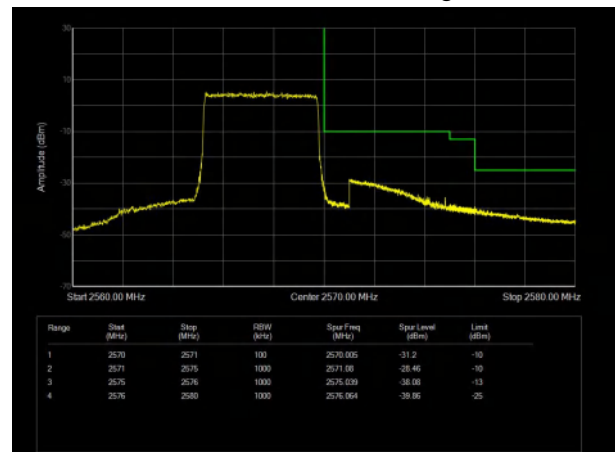
LTE Band 7 16QAM 5MHz CH-High, 1 RB



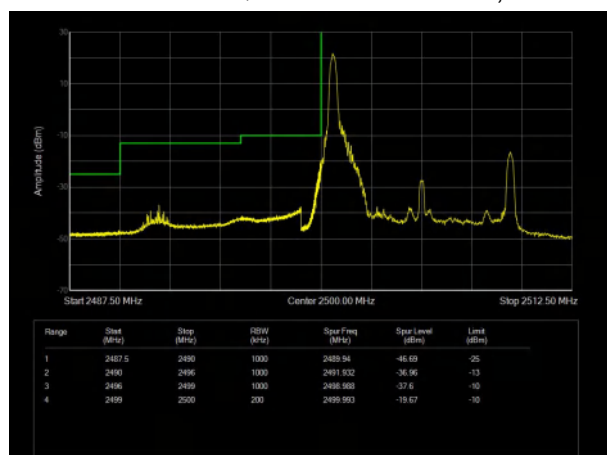
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



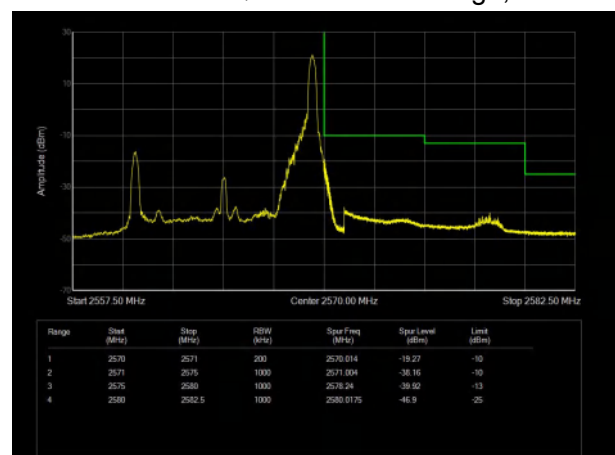
LTE Band 7 16QAM 5MHz CH-High, 100%RB



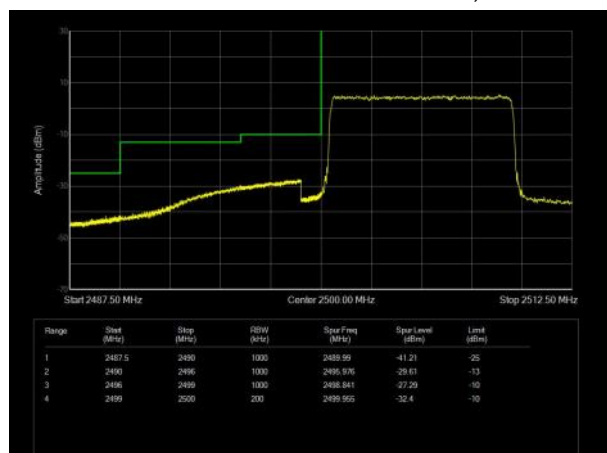
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



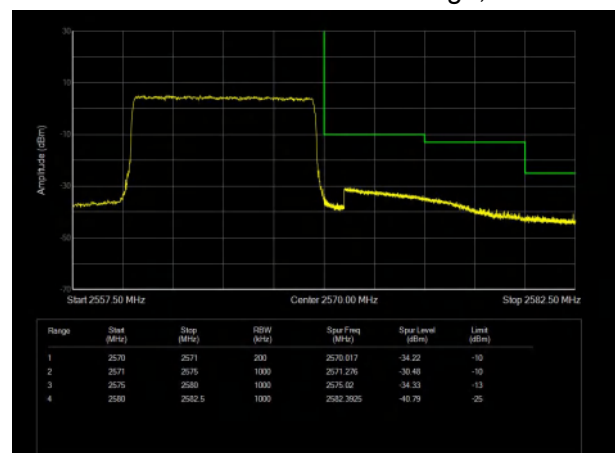
LTE Band 7 16QAM 10MHz CH-High, 1 RB



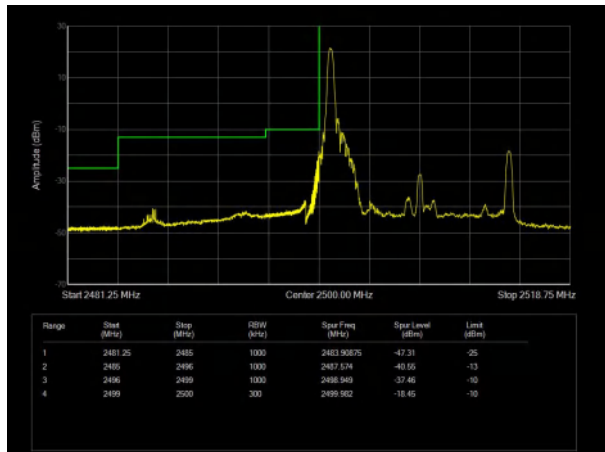
LTE Band 7 16QAM 10MHz CH-Low, 100%RB



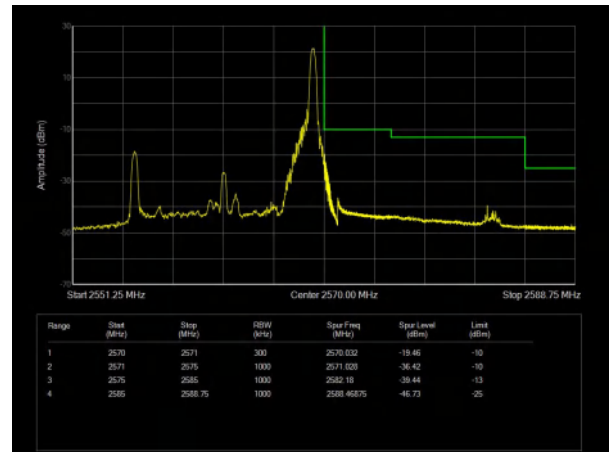
LTE Band 7 16QAM 10MHz CH-High, 100%RB



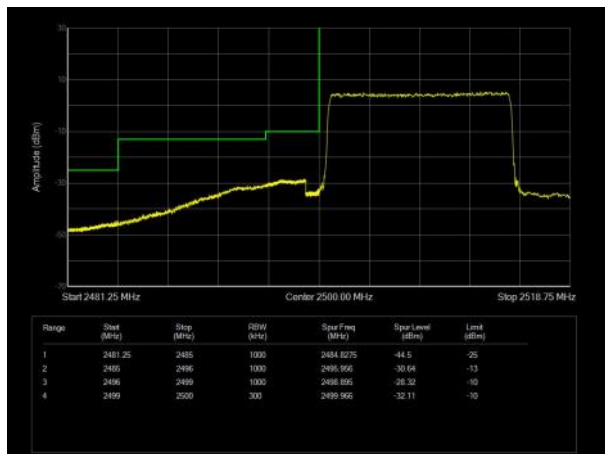
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



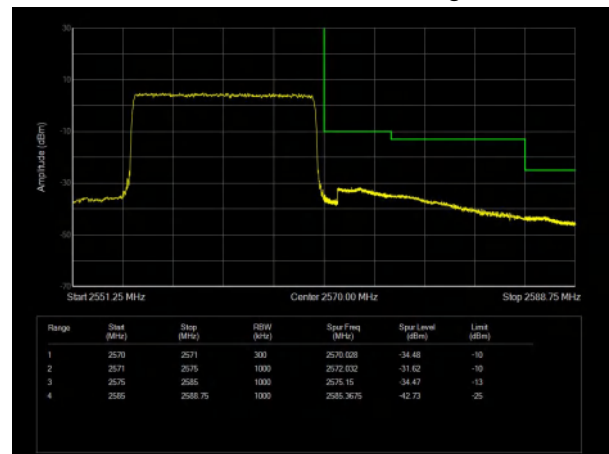
LTE Band 7 16QAM 15MHz CH-High, 1 RB



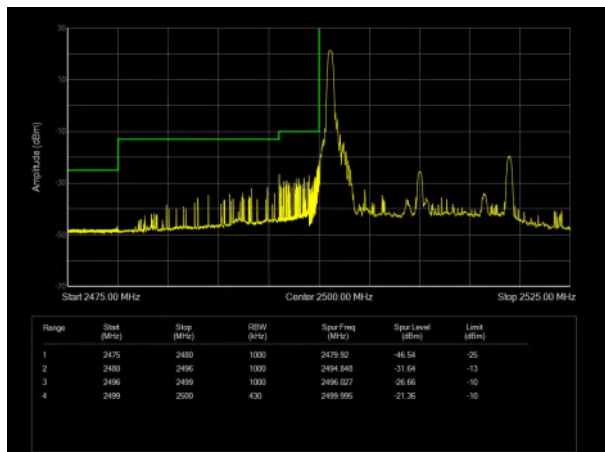
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



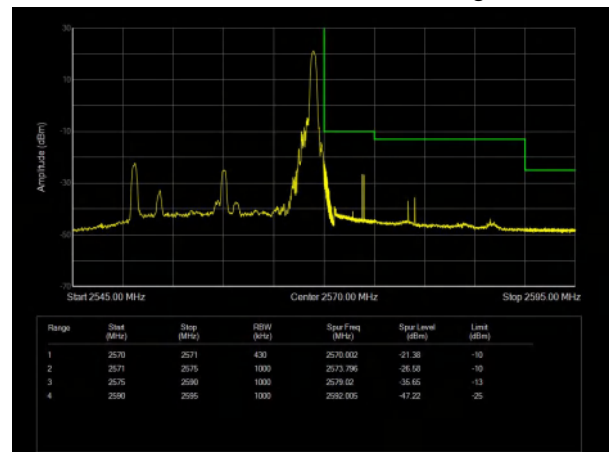
LTE Band 7 16QAM 15MHz CH-High, 100%RB



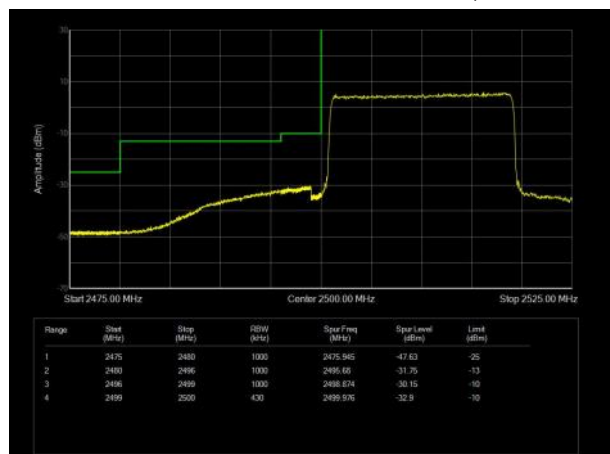
LTE Band 7 16QAM 20MHz CH-Low, 1 RB



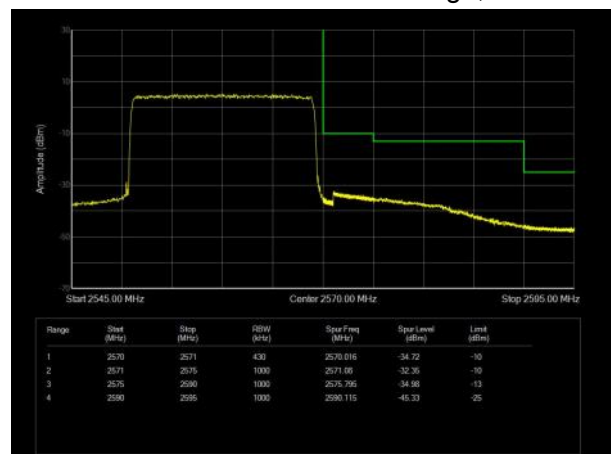
LTE Band 7 16QAM 20MHz CH-High, 1 RB



LTE Band 7 16QAM 20MHz CH-Low, 100%RB



LTE Band 7 16QAM 20MHz CH-High, 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.73	22.17	5.56	≤13	PASS
		20175	1732.5	27.65	22.16	5.49	≤13	PASS
		20393	1754.3	27.66	22.17	5.49	≤13	PASS
	3	19965	1711.5	27.83	22.19	5.64	≤13	PASS
		20175	1732.5	27.77	22.15	5.62	≤13	PASS
		20385	1753.5	27.65	22.17	5.48	≤13	PASS
	5	19975	1712.5	27.91	22.20	5.71	≤13	PASS
		20175	1732.5	27.84	22.17	5.67	≤13	PASS
		20375	1752.5	27.84	22.20	5.64	≤13	PASS
	10	20000	1715	27.86	22.16	5.70	≤13	PASS
		20175	1732.5	27.79	22.17	5.62	≤13	PASS
		20350	1750	27.87	22.21	5.66	≤13	PASS
	15	20025	1717.5	28.31	22.24	6.07	≤13	PASS
		20175	1732.5	28.17	22.18	5.99	≤13	PASS
		20325	1747.5	28.13	22.15	5.98	≤13	PASS
	20	20050	1720	28.07	22.25	5.82	≤13	PASS
		20175	1732.5	27.84	22.15	5.69	≤13	PASS
		20300	1745	27.84	22.14	5.70	≤13	PASS
16QAM	1.4	19957	1710.7	27.55	21.15	6.40	≤13	PASS
		20175	1732.5	27.47	21.16	6.31	≤13	PASS
		20393	1754.3	27.58	21.18	6.40	≤13	PASS
	3	19965	1711.5	27.63	21.22	6.41	≤13	PASS
		20175	1732.5	27.59	21.18	6.41	≤13	PASS
		20385	1753.5	27.57	21.18	6.39	≤13	PASS
	5	19975	1712.5	27.60	21.20	6.40	≤13	PASS
		20175	1732.5	27.60	21.20	6.40	≤13	PASS
		20375	1752.5	27.63	21.21	6.42	≤13	PASS
	10	20000	1715	27.61	21.19	6.42	≤13	PASS
		20175	1732.5	27.60	21.19	6.41	≤13	PASS
		20350	1750	27.64	21.20	6.44	≤13	PASS
	15	20025	1717.5	27.76	21.21	6.55	≤13	PASS
		20175	1732.5	27.68	21.17	6.51	≤13	PASS
		20325	1747.5	27.70	21.17	6.53	≤13	PASS



	20	20050	1720	27.79	21.27	6.52	≤13	PASS
		20175	1732.5	27.61	21.15	6.46	≤13	PASS
		20300	1745	27.60	21.17	6.43	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	27.25	21.49	5.76	≤13	PASS
		21100	2535	27.03	21.32	5.71	≤13	PASS
		21425	2567.5	27.06	21.38	5.68	≤13	PASS
	10	20800	2505	27.38	21.56	5.82	≤13	PASS
		21100	2535	27.12	21.43	5.69	≤13	PASS
		21400	2565	27.07	21.42	5.65	≤13	PASS
	15	20825	2507.5	27.65	21.51	6.14	≤13	PASS
		21100	2535	27.42	21.40	6.02	≤13	PASS
		21375	2562.5	27.35	21.40	5.95	≤13	PASS
	20	20850	2510	27.30	21.50	5.80	≤13	PASS
		21100	2535	27.12	21.37	5.75	≤13	PASS
		21350	2560	27.03	21.34	5.69	≤13	PASS
16QAM	5	20775	2502.5	27.06	20.56	6.50	≤13	PASS
		21100	2535	26.84	20.40	6.44	≤13	PASS
		21425	2567.5	26.85	20.41	6.44	≤13	PASS
	10	20800	2505	27.29	20.65	6.64	≤13	PASS
		21100	2535	26.95	20.46	6.49	≤13	PASS
		21400	2565	26.87	20.44	6.43	≤13	PASS
	15	20825	2507.5	27.26	20.55	6.71	≤13	PASS
		21100	2535	27.01	20.44	6.57	≤13	PASS
		21375	2562.5	26.92	20.41	6.51	≤13	PASS
	20	20850	2510	27.17	20.57	6.60	≤13	PASS
		21100	2535	26.92	20.41	6.51	≤13	PASS
		21350	2560	26.85	20.39	6.46	≤13	PASS

6.5 Frequency Stability

LTE Band 4						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	14.72	7.95	0.00850	0.00459	PASS
Extreme (50℃)		17.01	3.00	0.00982	0.00173	PASS
Extreme (40℃)		1.77	12.35	0.00102	0.00713	PASS
Extreme (30℃)		2.44	12.17	0.00141	0.00702	PASS
Extreme (20℃)		11.78	17.69	0.00680	0.01021	PASS
Extreme (10℃)		13.10	13.84	0.00756	0.00799	PASS
Extreme (0℃)		2.84	16.64	0.00164	0.00961	PASS
Extreme (-10℃)		15.16	6.46	0.00875	0.00373	PASS
Extreme (-20℃)		8.33	8.39	0.00481	0.00484	PASS
Extreme (-30℃)		13.56	12.69	0.00783	0.00733	PASS
25℃	LV	2.54	11.83	0.00147	0.00683	PASS
	HV	2.05	2.53	0.00118	0.00146	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	8.89	14.55	0.00513	0.00840	PASS
Extreme (50℃)		12.18	2.46	0.00703	0.00142	PASS
Extreme (40℃)		5.48	6.64	0.00317	0.00383	PASS
Extreme (30℃)		13.94	12.49	0.00805	0.00721	PASS
Extreme (20℃)		9.21	2.91	0.00532	0.00168	PASS
Extreme (10℃)		8.92	11.20	0.00515	0.00646	PASS
Extreme (0℃)		12.49	12.02	0.00721	0.00694	PASS
Extreme (-10℃)		7.05	13.23	0.00407	0.00764	PASS
Extreme (-20℃)		5.20	17.54	0.00300	0.01013	PASS
Extreme (-30℃)		15.64	4.99	0.00903	0.00288	PASS
25℃	LV	14.36	11.07	0.00829	0.00639	PASS
	HV	8.66	1.52	0.00500	0.00088	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	



Normal (25℃)	Normal	13.52	10.54	0.00781	0.00608	PASS
Extreme (50℃)		12.80	15.62	0.00739	0.00902	PASS
Extreme (40℃)		3.97	15.23	0.00229	0.00879	PASS
Extreme (30℃)		13.72	12.61	0.00792	0.00728	PASS
Extreme (20℃)		8.52	6.77	0.00492	0.00391	PASS
Extreme (10℃)		6.19	2.85	0.00357	0.00165	PASS
Extreme (0℃)		6.24	8.19	0.00360	0.00473	PASS
Extreme (-10℃)		11.09	6.72	0.00640	0.00388	PASS
Extreme (-20℃)		11.24	17.67	0.00649	0.01020	PASS
Extreme (-30℃)		11.96	17.55	0.00691	0.01013	PASS
25℃	LV	17.05	3.70	0.00984	0.00213	PASS
	HV	13.94	17.23	0.00805	0.00994	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	3.87	2.28	0.00223	0.00131	PASS
Extreme (50℃)		17.89	17.19	0.01033	0.00992	PASS
Extreme (40℃)		2.16	13.26	0.00125	0.00766	PASS
Extreme (30℃)		9.04	6.24	0.00522	0.00360	PASS
Extreme (20℃)		11.72	3.99	0.00677	0.00230	PASS
Extreme (10℃)		6.53	2.19	0.00377	0.00127	PASS
Extreme (0℃)		13.85	11.63	0.00800	0.00671	PASS
Extreme (-10℃)		5.00	13.45	0.00288	0.00777	PASS
Extreme (-20℃)		11.65	1.55	0.00672	0.00089	PASS
Extreme (-30℃)		1.06	17.76	0.00061	0.01025	PASS
25℃	LV	10.61	4.93	0.00612	0.00284	PASS
	HV	6.08	16.62	0.00351	0.00959	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	11.59	1.69	0.00669	0.00097	PASS
Extreme (50℃)		10.51	10.48	0.00607	0.00605	PASS
Extreme (40℃)		10.60	8.21	0.00612	0.00474	PASS
Extreme (30℃)		15.53	12.14	0.00897	0.00701	PASS
Extreme (20℃)		2.31	8.29	0.00133	0.00479	PASS
Extreme (10℃)		8.09	4.36	0.00467	0.00252	PASS
Extreme (0℃)		10.56	5.64	0.00609	0.00325	PASS
Extreme (-10℃)		16.85	2.49	0.00973	0.00144	PASS
Extreme (-20℃)		10.14	14.89	0.00585	0.00860	PASS



Extreme (-30℃)		14.32	17.16	0.00827	0.00991	PASS
25℃	LV	18.00	15.10	0.01039	0.00871	PASS
	HV	13.43	12.41	0.00775	0.00716	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)		15.47	7.06	0.00893	0.00407	PASS
Extreme (50℃)		6.21	14.80	0.00358	0.00855	PASS
Extreme (40℃)		7.90	17.45	0.00456	0.01007	PASS
Extreme (30℃)		13.02	15.14	0.00752	0.00874	PASS
Extreme (20℃)		6.19	10.76	0.00357	0.00621	PASS
Extreme (10℃)		9.89	14.18	0.00571	0.00818	PASS
Extreme (0℃)		5.44	10.07	0.00314	0.00581	PASS
Extreme (-10℃)		11.88	14.41	0.00686	0.00832	PASS
Extreme (-20℃)		8.78	17.53	0.00507	0.01012	PASS
Extreme (-30℃)		5.34	2.55	0.00308	0.00147	PASS
25℃	LV	9.78	14.97	0.00565	0.00864	PASS
	HV	14.49	11.73	0.00837	0.00677	PASS

LTE Band 7						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)		12.75	1.27	0.00503	0.00050	PASS
Extreme (50℃)		15.36	5.51	0.00606	0.00217	PASS
Extreme (40℃)		3.55	5.42	0.00140	0.00214	PASS
Extreme (30℃)		14.15	3.61	0.00558	0.00143	PASS
Extreme (20℃)		3.01	11.55	0.00119	0.00456	PASS
Extreme (10℃)		12.70	8.49	0.00501	0.00335	PASS
Extreme (0℃)		12.11	10.81	0.00478	0.00427	PASS
Extreme (-10℃)		13.68	16.57	0.00540	0.00654	PASS
Extreme (-20℃)		4.31	8.28	0.00170	0.00326	PASS
Extreme (-30℃)		13.75	8.27	0.00543	0.00326	PASS
25℃	LV	1.27	4.05	0.00050	0.00160	PASS
	HV	10.92	14.43	0.00431	0.00569	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	



Normal (25℃)	Normal	12.31	6.92	0.00486	0.00273	PASS
Extreme (50℃)		4.93	6.38	0.00194	0.00252	PASS
Extreme (40℃)		14.53	12.17	0.00573	0.00480	PASS
Extreme (30℃)		16.28	3.12	0.00642	0.00123	PASS
Extreme (20℃)		10.15	15.32	0.00400	0.00604	PASS
Extreme (10℃)		9.04	6.27	0.00357	0.00247	PASS
Extreme (0℃)		5.34	15.30	0.00211	0.00603	PASS
Extreme (-10℃)		15.48	10.88	0.00611	0.00429	PASS
Extreme (-20℃)		2.75	5.68	0.00108	0.00224	PASS
Extreme (-30℃)		8.47	3.80	0.00334	0.00150	PASS
25℃	LV	1.95	14.35	0.00077	0.00566	PASS
	HV	4.33	4.20	0.00171	0.00165	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	5.30	4.32	0.00209	0.00170	PASS
Extreme (50℃)		6.47	13.05	0.00255	0.00515	PASS
Extreme (40℃)		8.07	15.36	0.00318	0.00606	PASS
Extreme (30℃)		17.93	10.62	0.00707	0.00419	PASS
Extreme (20℃)		2.19	5.07	0.00086	0.00200	PASS
Extreme (10℃)		9.61	14.36	0.00379	0.00567	PASS
Extreme (0℃)		7.78	14.00	0.00307	0.00552	PASS
Extreme (-10℃)		8.65	13.09	0.00341	0.00516	PASS
Extreme (-20℃)		7.21	2.25	0.00284	0.00089	PASS
Extreme (-30℃)		5.09	3.14	0.00201	0.00124	PASS
25℃	LV	7.39	4.75	0.00292	0.00187	PASS
	HV	16.62	15.14	0.00656	0.00597	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)	Normal	16.27	8.37	0.00642	0.00330	PASS
Extreme (50℃)		3.74	15.22	0.00147	0.00600	PASS
Extreme (40℃)		3.88	4.47	0.00153	0.00176	PASS
Extreme (30℃)		14.22	3.07	0.00561	0.00121	PASS
Extreme (20℃)		8.02	15.02	0.00316	0.00593	PASS
Extreme (10℃)		1.89	12.33	0.00075	0.00486	PASS
Extreme (0℃)		2.59	8.49	0.00102	0.00335	PASS
Extreme (-10℃)		15.50	3.59	0.00612	0.00142	PASS
Extreme (-20℃)		3.37	11.46	0.00133	0.00452	PASS



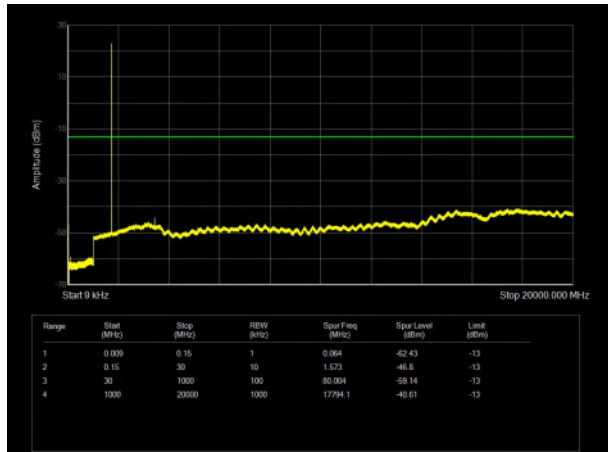
Extreme (-30℃)		7.72	5.41	0.00304	0.00213	PASS
25℃	LV	2.73	17.13	0.00108	0.00676	PASS
	HV	1.23	2.59	0.00049	0.00102	PASS

6.6 Spurious Emissions at Antenna Terminals

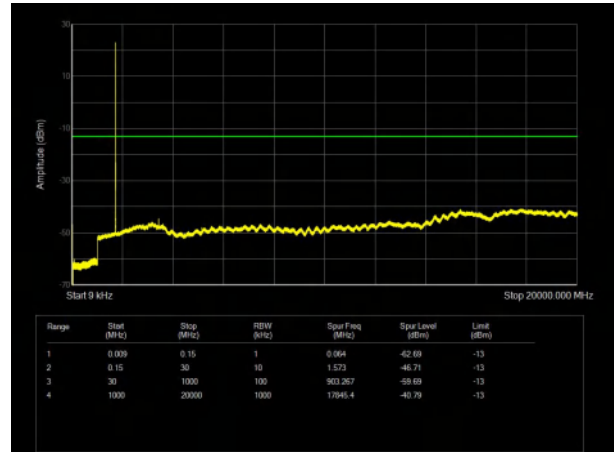
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

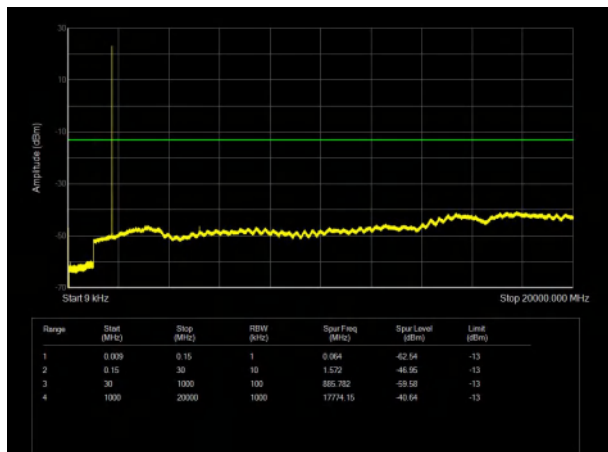
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



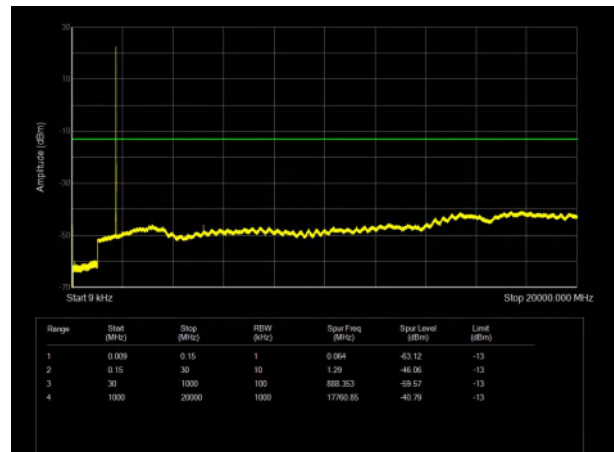
LTE Band 4 3MHz CH- Low 9kHz~20GHz



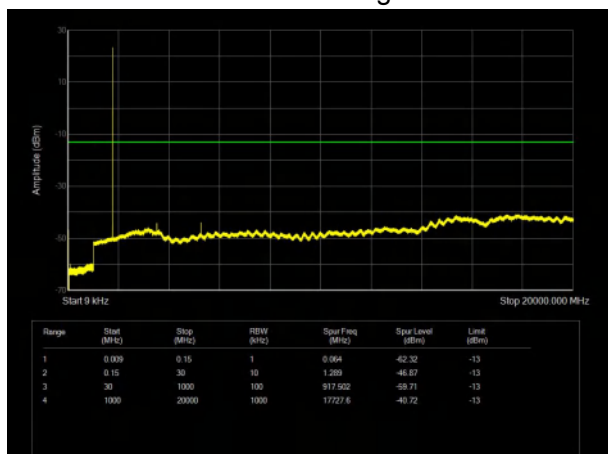
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



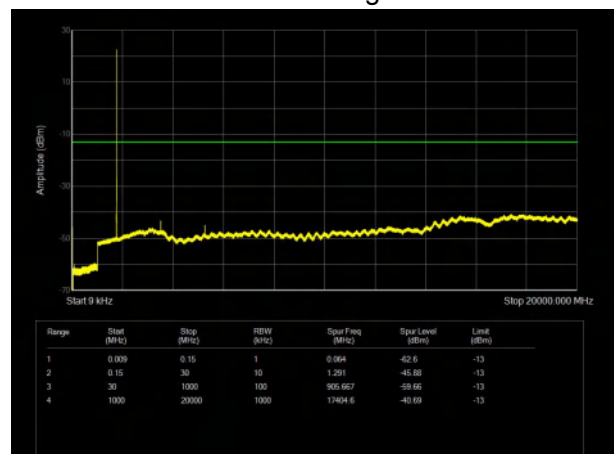
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



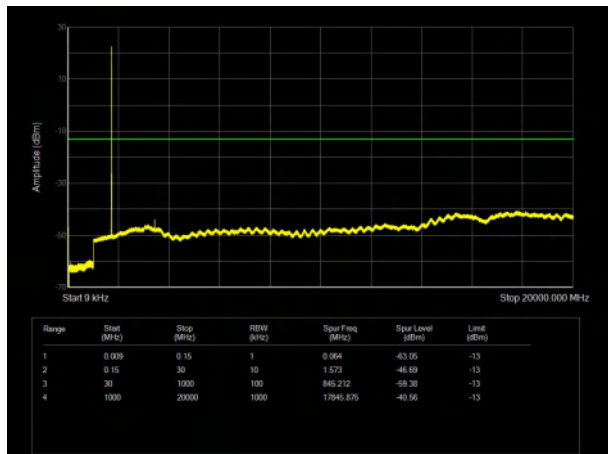
LTE Band 4 1.4MHz CH- High 9kHz~20GHz



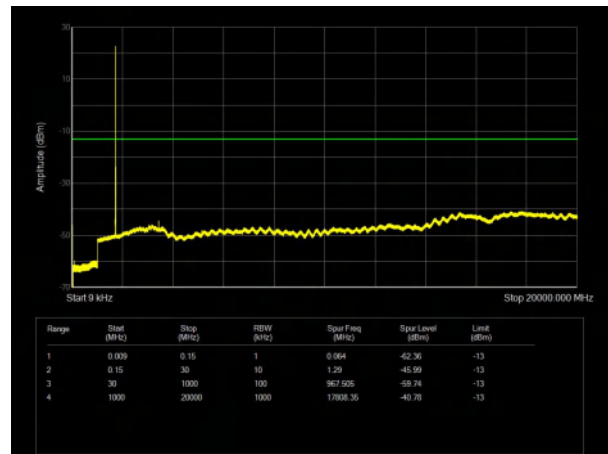
LTE Band 4 3MHz CH-High 9kHz~20GHz



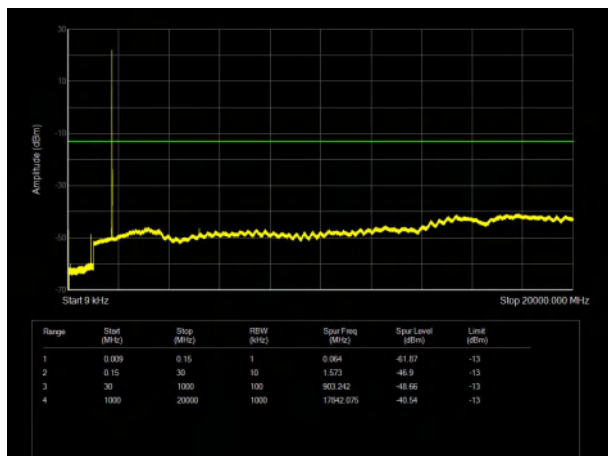
LTE Band 4 5MHz CH- Low 9kHz~20GHz



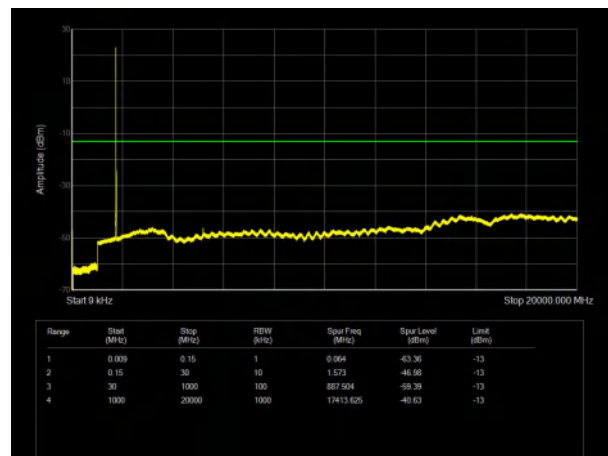
LTE Band 4 10MHz CH-Low 9kHz~20GHz



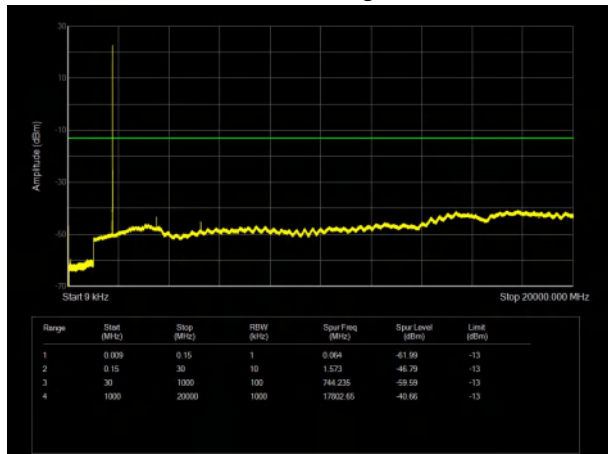
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



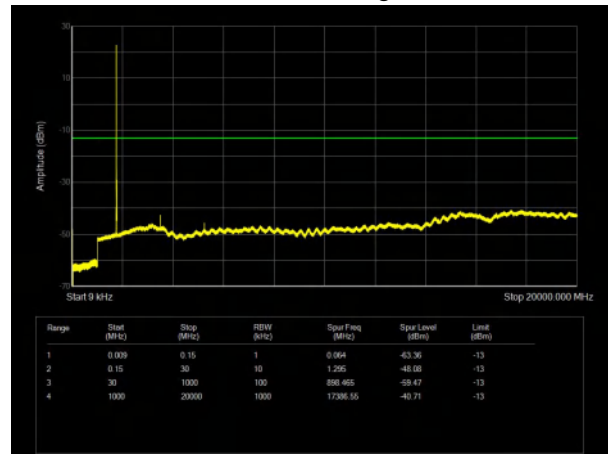
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



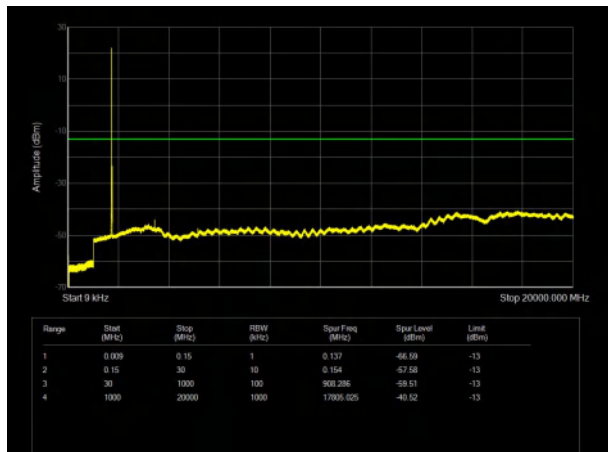
LTE Band 4 5MHz CH-High 9kHz~20GHz



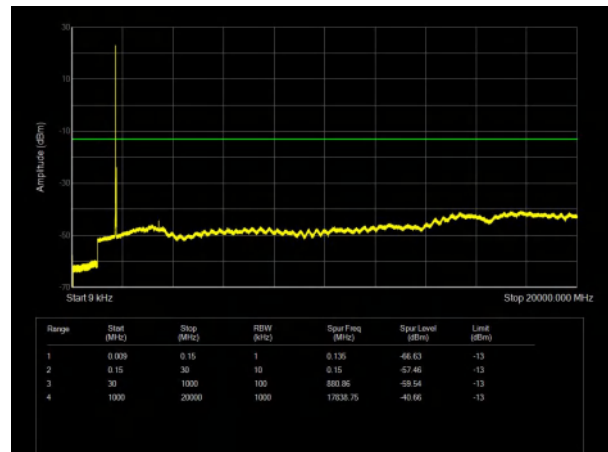
LTE Band 4 10MHz CH- High 9kHz~20GHz



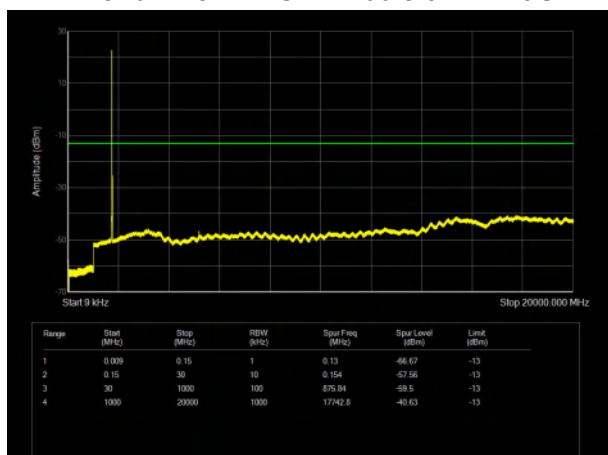
LTE Band 4 15MHz CH- Low 9kHz~20GHz



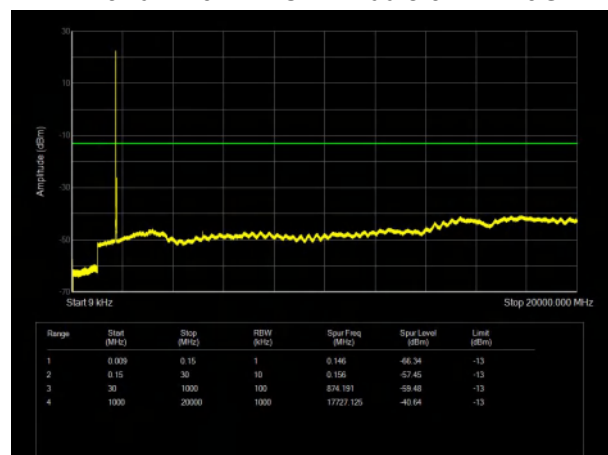
LTE Band 4 20MHz CH-Low 9kHz~20GHz



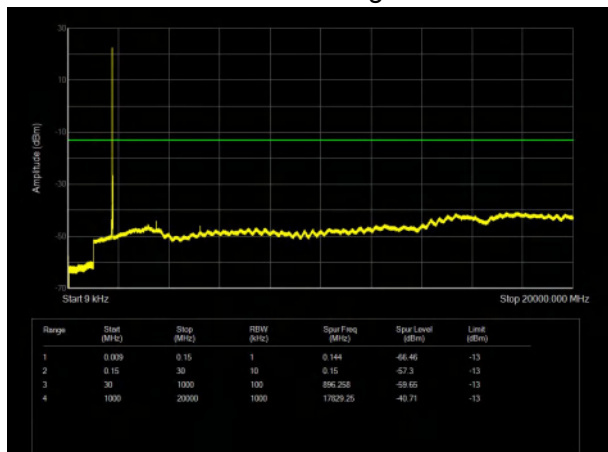
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



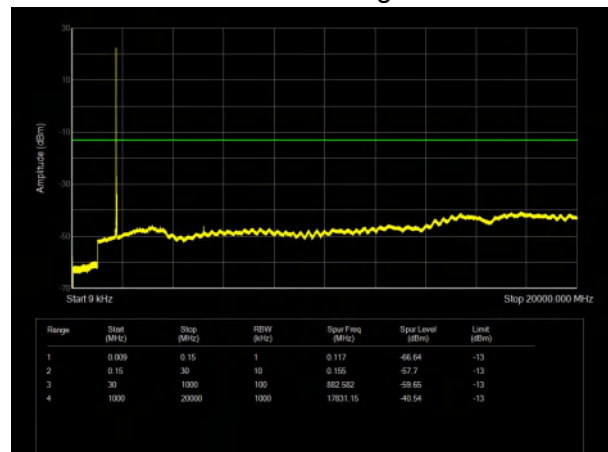
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



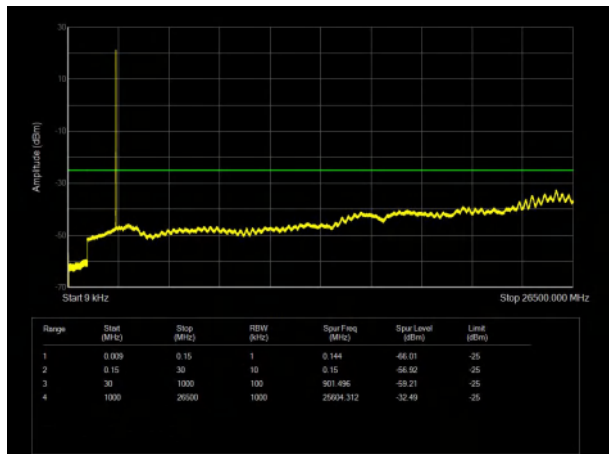
LTE Band 4 15MHz CH-High 9kHz~20GHz



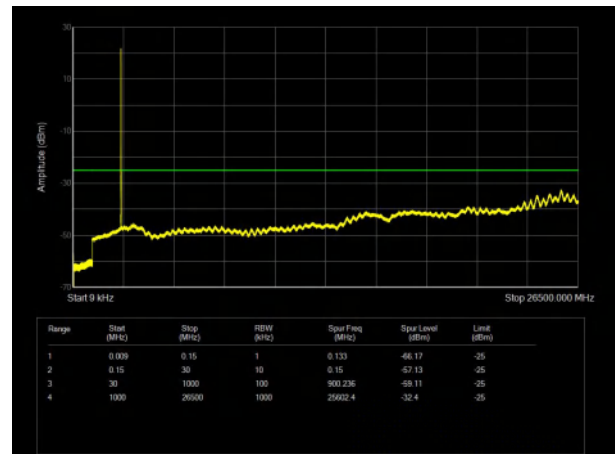
LTE Band 4 20MHz CH- High 9kHz~20GHz



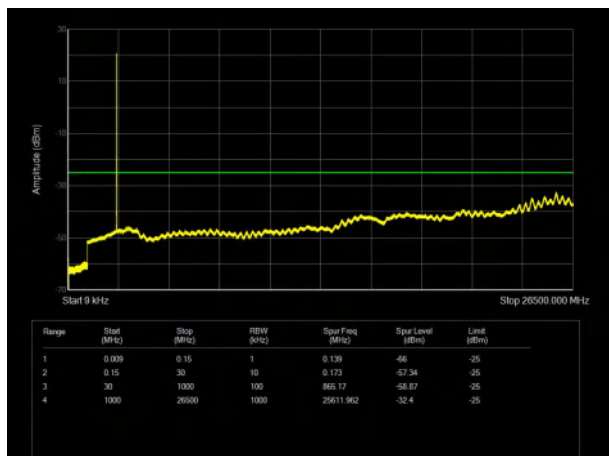
LTE Band 7 5MHz CH- Low 9kHz~26.5GHz



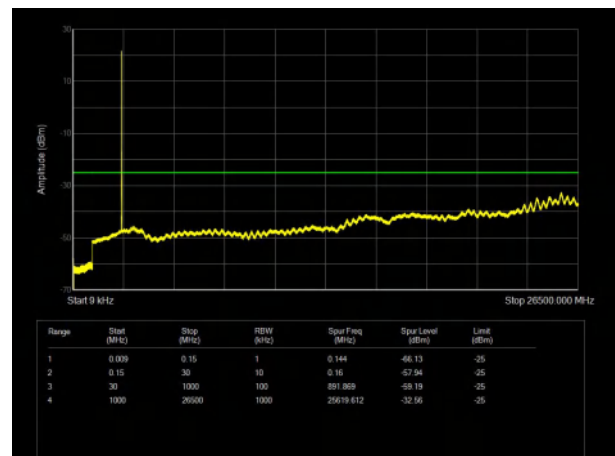
LTE Band 7 10MHz CH-Low 9kHz~26.5GHz



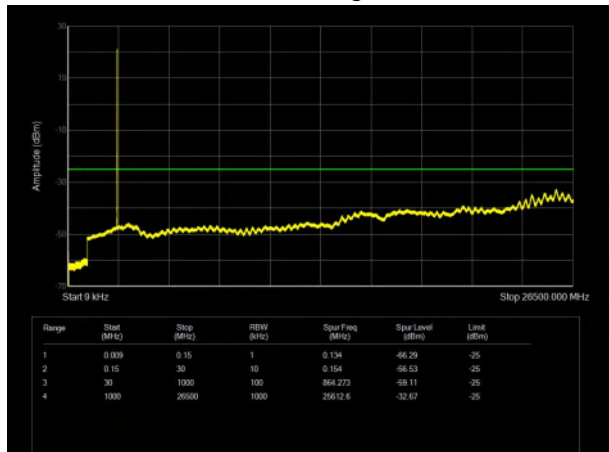
LTE Band 7 5MHz CH- Middle 9kHz~26.5GHz



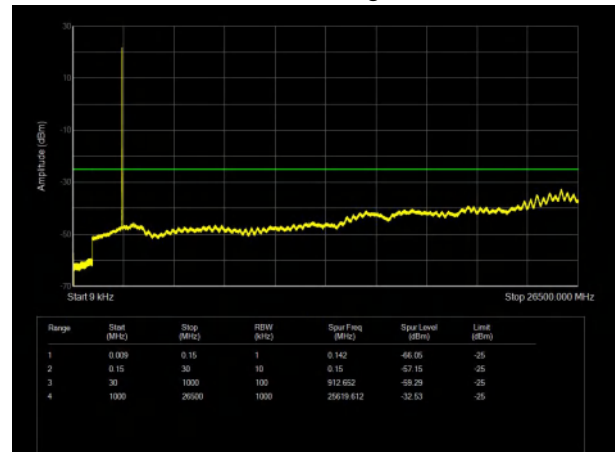
LTE Band 7 10MHz CH- Middle 9kHz~26.5GHz



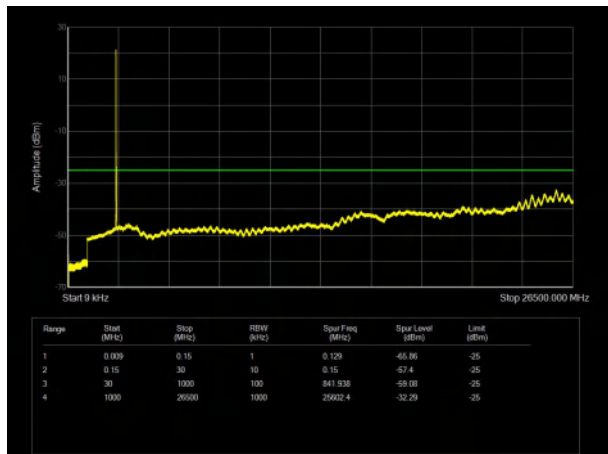
LTE Band 7 5MHz CH-High 9kHz~26.5GHz



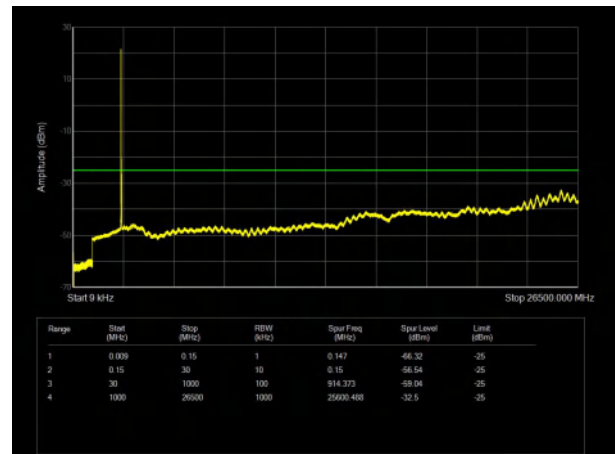
LTE Band 7 10MHz CH- High 9kHz~26.5GHz



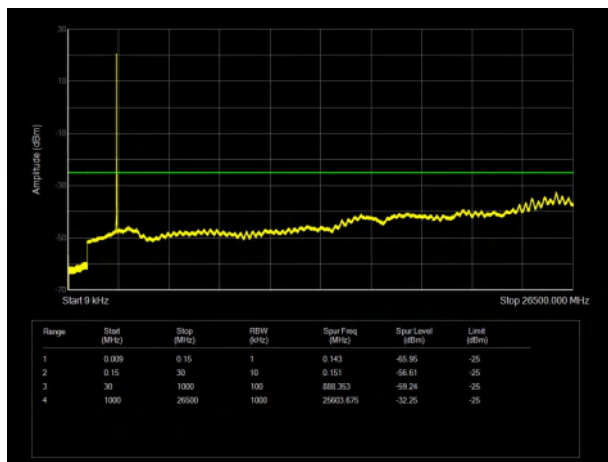
LTE Band 7 15MHz CH- Low 9kHz~26.5GHz



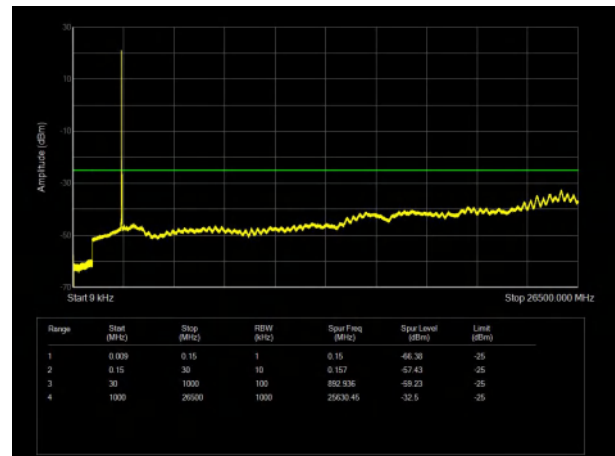
LTE Band 7 26.5MHz CH-Low 9kHz~26.5GHz



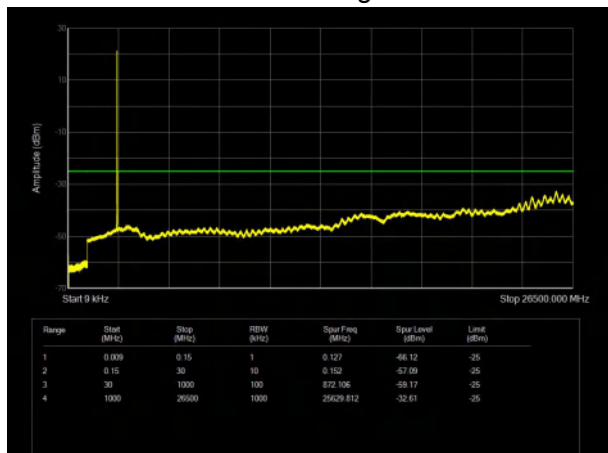
LTE Band 7 15MHz CH- Middle 9kHz~26.5GHz



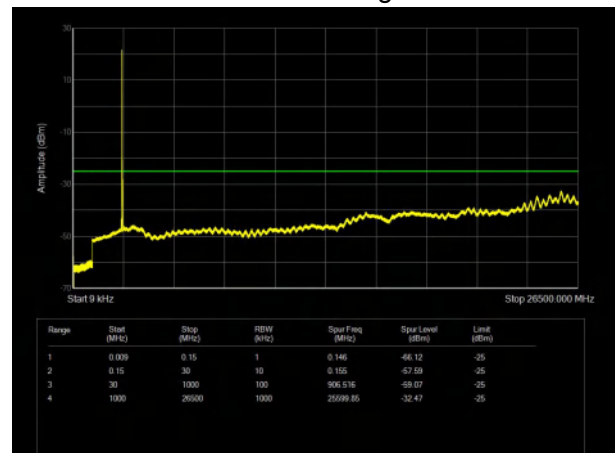
LTE Band 7 26.5MHz CH- Middle 9kHz~26.5GHz



LTE Band 7 15MHz CH-High 9kHz~26.5GHz



LTE Band 7 26.5MHz CH- High 9kHz~26.5GHz





6.7 Radiates Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.25	-64.42	2.70	12.70	Horizontal	-54.42	-13.00	41.42	0
3	5197.50	-48.25	3.20	12.50	Horizontal	-38.95	-13.00	25.95	135
4	6930.00	-64.32	4.20	11.80	Horizontal	-56.72	-13.00	43.72	0
5	8662.50	-59.12	4.40	12.50	Horizontal	-51.02	-13.00	38.02	225
6	10395.00	-54.83	4.70	11.30	Horizontal	-48.23	-13.00	35.23	0
7	12127.50	-54.27	5.20	13.80	Horizontal	-45.67	-13.00	32.67	45
8	13860.00	-53.03	5.70	11.30	Horizontal	-47.43	-13.00	34.43	225
9	15592.50	-56.96	6.10	16.80	Horizontal	-46.26	-13.00	33.26	45
10	17325.00	-53.96	6.10	14.20	Horizontal	-45.86	-13.00	32.86	225
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									



LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-64.34	2.70	12.70	Horizontal	-54.34	-13.00	41.34	0
3	5191.50	-47.11	3.20	12.50	Horizontal	-37.81	-13.00	24.81	45
4	6930.00	-63.01	4.20	11.80	Horizontal	-55.41	-13.00	42.41	135
5	8662.50	-59.32	4.40	12.50	Horizontal	-51.22	-13.00	38.22	0
6	10395.00	-55.15	4.70	11.30	Horizontal	-48.55	-13.00	35.55	45
7	12127.50	-49.09	5.20	13.80	Horizontal	-40.49	-13.00	27.49	90
8	13860.00	-53.12	5.70	11.30	Horizontal	-47.52	-13.00	34.52	135
9	15592.50	-56.38	6.10	16.80	Horizontal	-45.68	-13.00	32.68	90
10	17325.00	-52.97	6.10	14.20	Horizontal	-44.87	-13.00	31.87	135
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.75	-63.51	2.70	12.70	Horizontal	-53.51	-13.00	40.51	0
3	5170.88	-50.18	3.20	12.50	Horizontal	-40.88	-13.00	27.88	135
4	6930.00	-62.18	4.20	11.80	Horizontal	-54.58	-13.00	41.58	90
5	8662.50	-58.69	4.40	12.50	Horizontal	-50.59	-13.00	37.59	45
6	10395.00	-54.16	4.70	11.30	Horizontal	-47.56	-13.00	34.56	45
7	12127.50	-54.67	5.20	13.80	Horizontal	-46.07	-13.00	33.07	135
8	13860.00	-53.30	5.70	11.30	Horizontal	-47.70	-13.00	34.70	0
9	15592.50	-55.37	6.10	16.80	Horizontal	-44.67	-13.00	31.67	90
10	17325.00	-53.47	6.10	14.20	Horizontal	-45.37	-13.00	32.37	90
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									



LTE Band 7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.80	-62.01	3.40	12.50	Horizontal	-52.91	-25.00	27.91	225
3	7598.60	-53.60	4.40	12.20	Horizontal	-45.80	-25.00	20.80	45
4	10130.63	-45.53	4.70	11.30	Horizontal	-38.93	-25.00	13.93	0
5	12675.00	-53.15	5.40	13.20	Horizontal	-45.35	-25.00	20.35	90
6	15210.00	-50.96	6.10	13.10	Horizontal	-43.96	-25.00	18.96	135
7	17745.00	-53.40	6.10	14.20	Horizontal	-45.30	-25.00	20.30	0
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5052.20	-59.07	3.40	12.50	Horizontal	-49.97	-25.00	24.97	270
3	7578.30	-55.85	4.40	12.20	Horizontal	-48.05	-25.00	23.05	90
4	10104.40	-52.63	4.70	11.30	Horizontal	-46.03	-25.00	21.03	135
5	12630.50	-53.41	5.40	13.20	Horizontal	-45.61	-25.00	20.61	45
6	15156.60	-49.56	6.10	13.10	Horizontal	-42.56	-25.00	17.56	270
7	17745.00	-55.14	6.10	14.20	Horizontal	-47.04	-25.00	22.04	90
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-57.75	1.70	8.70	Horizontal	-51.15	-13	38.15	270
3	2122.50	-56.64	2.10	11.10	Horizontal	-50.25	-13	37.25	270
4	2830.00	-51.65	2.30	13.10	Horizontal	-46.85	-13	33.85	0
5	3537.50	-54.15	2.60	12.70	Horizontal	-50.35	-13	37.35	270
6	4245.00	-50.46	3.30	12.50	Horizontal	-46.16	-13	33.16	180
7	4952.50	-53.26	3.40	12.50	Horizontal	-47.56	-13	34.56	135
8	5660.00	-52.56	3.30	12.50	Horizontal	-47.26	-13	34.26	45
9	6367.50	-51.18	3.80	11.50	Horizontal	-46.28	-13	33.28	315
10	7075.00	-50.22	4.20	11.80	Horizontal	-45.02	-13	32.02	270

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-56.75	1.70	8.70	Horizontal	-50.15	-13	37.15	45
3	2122.50	-56.88	2.10	11.10	Horizontal	-50.49	-13	37.49	45
4	2830.00	-51.48	2.30	13.10	Horizontal	-46.68	-13	33.68	90
5	3537.50	-54.65	2.60	12.70	Horizontal	-50.85	-13	37.85	225
6	4245.00	-50.51	3.30	12.50	Horizontal	-46.21	-13	33.21	90
7	4952.50	-52.78	3.40	12.50	Horizontal	-47.08	-13	34.08	270
8	5660.00	-53.15	3.30	12.50	Horizontal	-47.85	-13	34.85	315
9	6367.50	-50.95	3.80	11.50	Horizontal	-46.05	-13	33.05	270
10	7075.00	-52.15	4.20	11.80	Horizontal	-46.95	-13	33.95	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-58.24	1.70	8.70	Horizontal	-51.64	-13	38.64	135
3	2122.50	-57.34	2.10	11.10	Horizontal	-50.95	-13	37.95	45
4	2830.00	-51.65	2.30	13.10	Horizontal	-46.85	-13	33.85	90
5	3537.50	-54.02	2.60	12.70	Horizontal	-50.22	-13	37.22	225
6	4245.00	-50.98	3.30	12.50	Horizontal	-46.68	-13	33.68	270
7	4952.50	-53.02	3.40	12.50	Horizontal	-47.32	-13	34.32	180
8	5660.00	-53.25	3.30	12.50	Horizontal	-47.95	-13	34.95	135
9	6367.50	-51.55	3.80	11.50	Horizontal	-46.65	-13	33.65	270
10	7075.00	-51.88	4.20	11.80	Horizontal	-46.68	-13	33.68	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.



7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
Wideband radio communication tester	R&S	CMW500	113645	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2021-12-12	2022-12-11
Universal Radio Communication Tester	Agilent	E5515C	GB44400275	2021-12-12	2022-12-11
Spectrum Analyzer	R&S	FSV30	104028	2021-12-12	2022-12-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019--9-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.