



# RF TEST REPORT

<b>Applicant</b>	Honor Device Co., Ltd.
<b>FCC ID</b>	2AYGCANY-LX3
<b>Product</b>	Smart Phone
<b>Model</b>	ANY-LX3
<b>Report No.</b>	R2202A0171-R2
<b>Issue Date</b>	March 18, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR 47 Part 24E (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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Approved by: Kai Xu

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## TABLE OF CONTENT

1. Test Laboratory .....	4
1.1. Notes of the test report .....	4
1.2. Test facility .....	4
1.3. Testing Location .....	4
2. General Description of Equipment under Test .....	5
2.1. Applicant and Manufacturer Information .....	5
2.2. General information .....	5
3. Applied Standards .....	7
4. Test Configuration .....	8
5. Test Case .....	10
5.1. RF Power Output and Effective Isotropic Radiated Power .....	10
5.2. Occupied Bandwidth .....	11
5.3. Band Edge Compliance .....	12
5.4. Peak-to-Average Power Ratio (PAPR) .....	13
5.5. Frequency Stability .....	14
5.6. Spurious Emissions at Antenna Terminals .....	16
5.7. Radiates Spurious Emission .....	17
6. Test Results .....	20
6.1. RF Power Output and Effective Isotropic Radiated Power .....	20
6.2. Occupied Bandwidth .....	24
6.3. Band Edge Compliance .....	41
6.4. Peak-to-Average Power Ratio (PAPR) .....	51
6.5. Frequency Stability .....	53
6.6. Spurious Emissions at Antenna Terminals .....	56
6.7. Radiates Spurious Emission .....	61
7. Main Test Instruments .....	66
ANNEX A: The EUT Appearance .....	67
ANNEX B: Test Setup Photos .....	68



## Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	2.1051 /24.238(a)	PASS
4	Peak-to-Average Power Ratio	24.232/KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 24.235	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 24.238(a)	PASS
7	Radiates Spurious Emission	2.1053 / 24.238(a)	PASS

Date of Testing: February 22, 2022 ~ March 15, 2020

Date of Sample Received: February 21, 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.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
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## 2. General Description of Equipment under Test

### 2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	uite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

### 2.2. General information

EUT Description			
Model	ANY-LX3		
SN	AJDR012126000091		
Hardware Version	HL2ANYM		
Software Version	4.2.0.19(SP01 C900E11R1P1)		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Main Antenna	Second Antenna
	GSM 1900	-2.0dBi	-1.3dBi
	WCDMA Band II	-2.0dBi	-1.3dBi
	LTE Band 2	-2.0dBi	-1.3dBi
Test Mode(s)	GSM1900; WCDMA Band II; LTE Band 2;		
Test Modulation	(GSM/GPRS)GMSK, (EGPRS) GMSK/ 8PSK; (WCDMA) BPSK, QPSK; (LTE)QPSK,16QAM		
GPRS Multislot Class	12		
EGPRS Multislot Class	12		
HSDPA UE Category	14		
HSUPA UE Category	6		
DC-HSDPA UE Category	24		
LTE Category	4		
Maximum E.I.R.P	GSM 1900	28.58dBm	
	WCDMA Band II	20.50dBm	
	LTE Band 2	21.91dBm	
Rated Power Supply Voltage	3.87V		
Operating Voltage	Minimum: 3.6V    Maximum: 4.45V		



Operating Temperature	Lowest: 0°C    Highest: +35°C		
Testing Temperature	Lowest: 0°C    Highest: +35°C		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM1900	1850 ~ 1910	1930 ~ 1990
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990
	LTE Band 2	1850 ~ 1910	1930 ~ 1990
<b>EUT Accessory</b>			
Accessory	Model	Manufacture	No.
Adapter	HW-110600E00	Honor Device Co., Ltd. (Manufacturer: Astec)	1
	HW-110600B00	Honor Device Co., Ltd. (Manufacturer: Astec)	2
	HW-110600U00	Honor Device Co., Ltd. (Manufacturer: Astec)	3
	HN-110600E00	Honor Device Co., Ltd. (Manufacturer: Astec)	4
	HN-110600B00	Honor Device Co., Ltd. (Manufacturer: Astec)	5
	HN-110600U00	Honor Device Co., Ltd. (Manufacturer: Astec)	6
Battery	HB466596EFW	Honor Device Co., Ltd. (Manufacturer: Desay)	1
	HB466596EFW	Honor Device Co., Ltd. (Manufacturer: NVT)	2
	HB466596EFW	Honor Device Co., Ltd. (Manufacturer: SCUD)	3
Earphone	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	1
	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	2
	MEND1532B528A11	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	3
USB Cable	L99UC139 - CS - H	Luxshare Precision Industry Co.,Ltd.	1
	213-01011-0	MING JI ELECTRONICS CO., LTD.	2
Earphone,USB Type-C to 3.5mm Adapter Assembly	Model: USB042020090AW7		1
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one Adapter/Battery/ USB cable, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 3/ Battery 3/ USB cable 2) will be recorded in this report.</p>			



### 3. Applied Standards

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

**Test standards:**

**FCC CFR 47 Part 24E (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 for GSM/WCDMA; X axis, horizontal polarization for Main Antenna LTE; Z axis, vertical polarization for Second Antenna LTE) 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 GSM/WCDMA/LTE is set based on the maximum RF Output Power.

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation	
	GSM 1900	WCDMA Band II
RF Power Output and Effective Isotropic Radiated Power	GSM GPRS EGPRS	RMC/AMR HSDPA/HSUPA DC-HSDPA
Occupied Bandwidth	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Band Edge Compliance	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Peak-to-Average Power Ratio	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Frequency Stability	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Spurious Emissions at Antenna Terminals	GSM	RMC
Radiates Spurious Emission	GSM	RMC





Test modes are chosen to be reported as the worst case configuration below for LTE Band 2:

Test items	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	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	O	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	O	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	O	-	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.

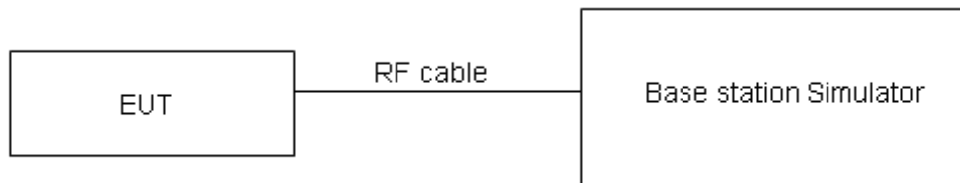
ERP can then be calculated as follows:

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

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 24.232(c) Mobile and portable stations are limited to 2 watts EIRP.

Rule Part 24.232(e) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Limit	$\leq 2 \text{ W}$ (33 dBm)
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#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.4 \text{ dB}$  for RF power output,  $k = 2$ ,  $U = 1.19 \text{ dB}$  for 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

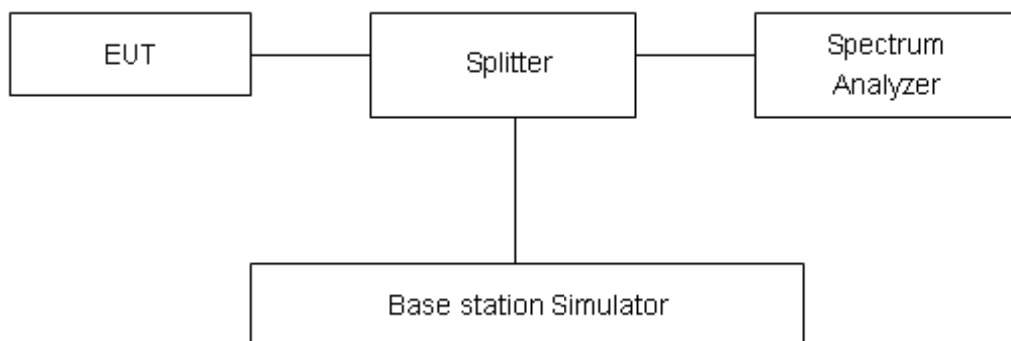
### Method of Measurement

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

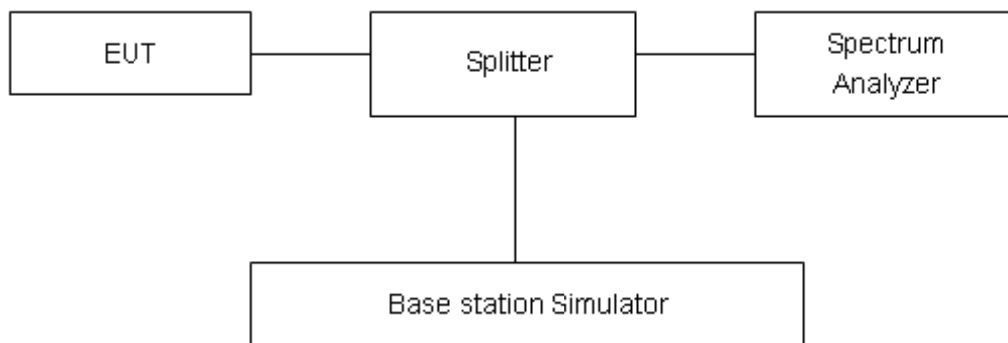
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### 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 Average detector is used and RBW is set to  $\geq 1\%EBW$ , VBW is set to 3x RBW.

Spectrum analyzer plots are included on the following pages.

#### Test Setup



#### Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee’s frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10} (P)$  dB.”

Limit	-13 dBm
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#### Measurement Uncertainty

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

#### Test Results

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

### 5.4. Peak-to-Average Power Ratio (PAPR)

#### Ambient condition

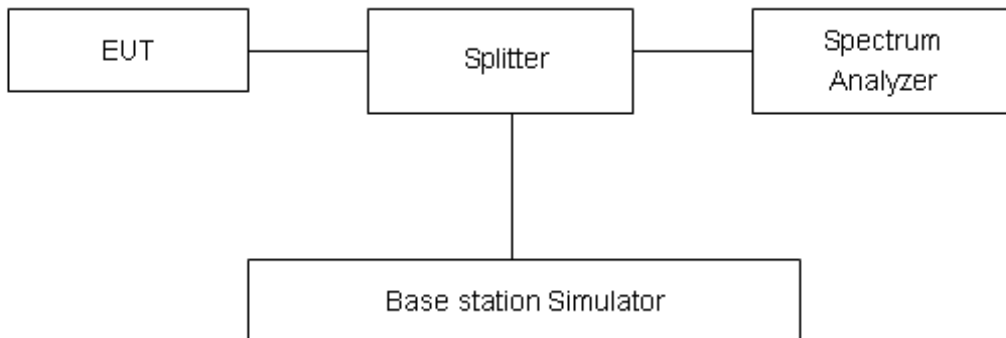
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### 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

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 in 24.232(d).

#### 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 0°C to +35°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°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 0°C to +35°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

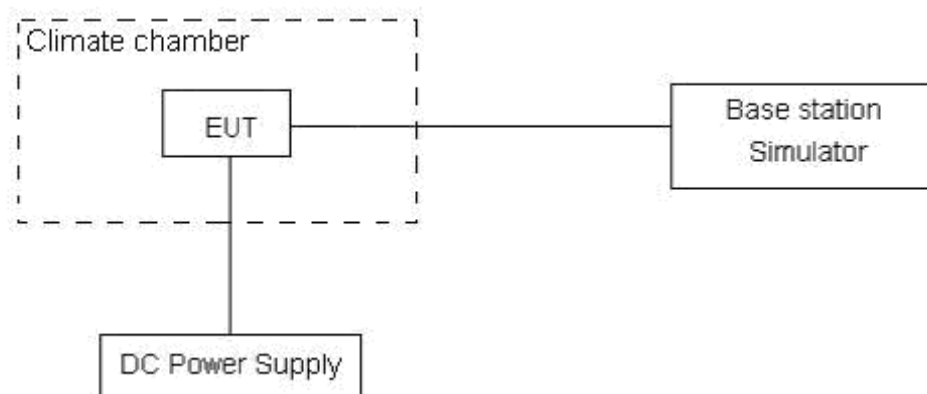
#### Frequency Stability (Voltage Variation)

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 3.6 V and 4.45 V, with a nominal voltage of 3.87V.

### Test setup



**Limits**

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

**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),

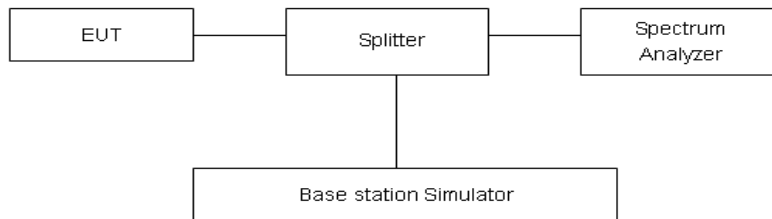
RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

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

RBW is set to 1000 kHz (above 1000MHz)

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

#### Test setup



#### Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee’s frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log<sub>10</sub> (P) dB.”

Limit	-13 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-20GHz	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

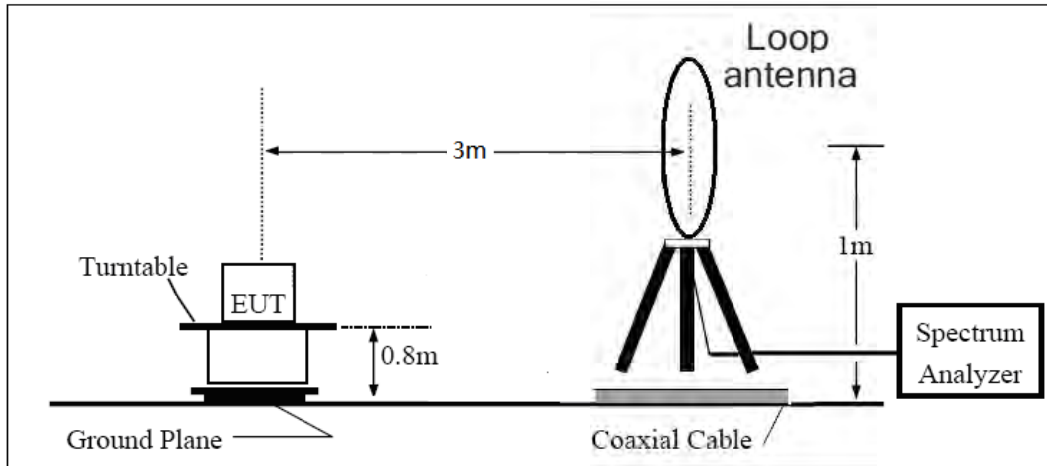
1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable 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=1MHz, VBW=3MHz, 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:  
Power(EIRP)=PMea- PAg - Pcl + Ga  
The measurement results are amend as described below:  
Power(EIRP)=PMea- Pcl + 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, ERP

= EIRP-2.15dB.

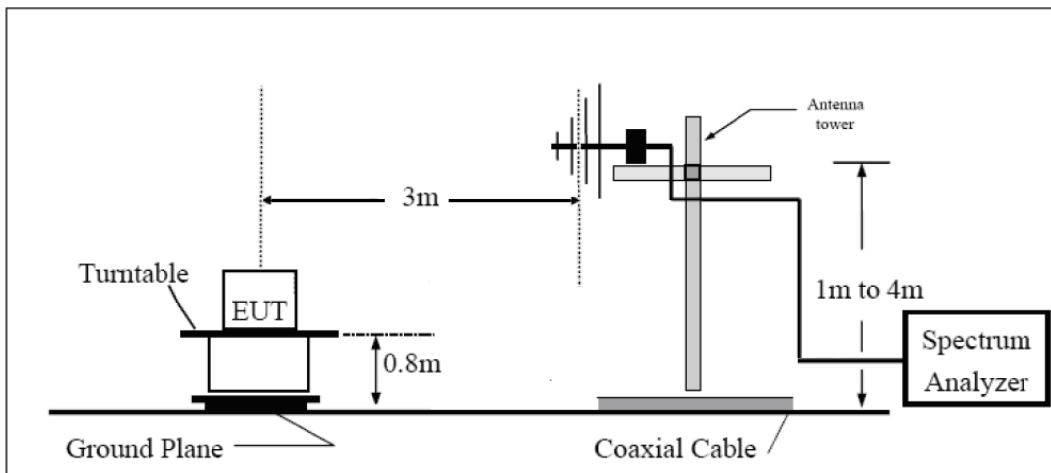
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

**Test setup**

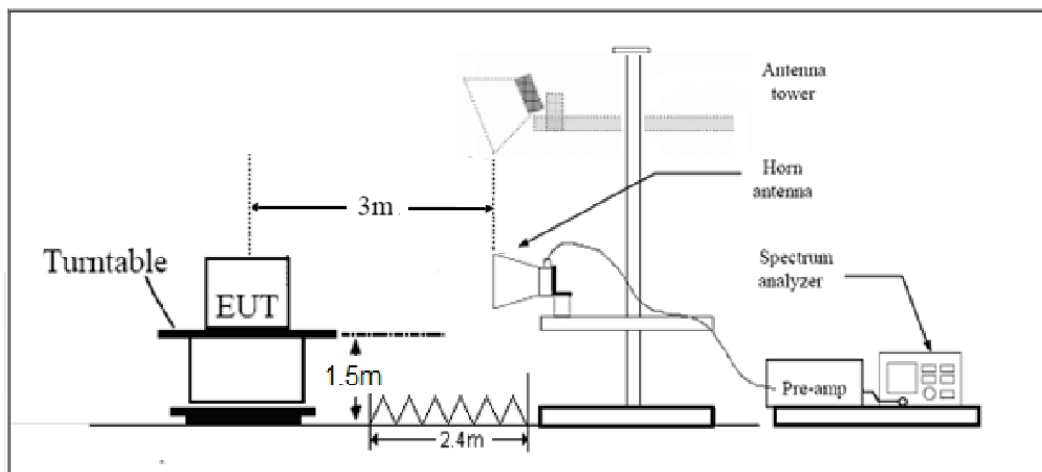
**9KHz ~ 30MHz**



**30MHz ~ 1GHz**



**Above 1GHz**



Note: Area side: 2.4mX3.6m

**Limits**

Rule Part 24.238(a) specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB.”

Limit	-13 dBm
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**Measurement Uncertainty**

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

GSM 1900		Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
		Channel 512	Channel 661	Channel 810	Channel 512	Channel 661	Channel 810	Channel 512	Channel 661	Channel 810
		1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)	1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)	1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)
GSM(GMSK)	Results	29.39	29.88	29.65	27.39	27.88	27.65	28.09	28.58	28.35
GPRS (GMSK)	1TXslot	29.25	29.42	29.40	27.25	27.42	27.40	27.95	28.12	28.10
	2TXslots	25.93	26.07	26.12	23.93	24.07	24.12	24.63	24.77	24.82
	3TXslots	23.86	24.04	23.96	21.86	22.04	21.96	22.56	22.74	22.66
	4TXslots	22.87	22.99	22.90	20.87	20.99	20.90	21.57	21.69	21.60
EGPRS (8PSK)	1TXslot	24.64	24.65	24.87	22.64	22.65	22.87	23.34	23.35	23.57
	2TXslots	21.77	22.30	22.13	19.77	20.30	20.13	20.47	21.00	20.83
	3TXslots	19.70	20.18	20.12	17.70	18.18	18.12	18.40	18.88	18.82
	4TXslots	18.12	18.28	18.01	16.12	16.28	16.01	16.82	16.98	16.71

WCDMA Band II		Maximum Output Power (dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
		Channel 9262	Channel 9400	Channel 9538	Channel 9262	Channel 9400	Channel 9538	Channel 9262	Channel 9400	Channel 9538
		1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)	1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)	1852.4 (MHz)	1880 (MHz)	1907.6 (MHz)
RMC		21.77	21.80	21.61	19.77	19.80	19.61	20.47	20.50	20.31
AMR		21.75	21.78	21.71	19.75	19.78	19.71	20.45	20.48	20.41
HSDPA	Sub - Test 1	21.13	21.12	20.87	19.13	19.12	18.87	19.83	19.82	19.57
	Sub - Test 2	21.03	21.12	20.89	19.03	19.12	18.89	19.73	19.82	19.59
	Sub - Test 3	20.61	20.44	20.15	18.61	18.44	18.15	19.31	19.14	18.85
	Sub - Test 4	20.61	20.38	20.19	18.61	18.38	18.19	19.31	19.08	18.89
HSUPA	Sub - Test 1	20.13	19.94	19.83	18.13	17.94	17.83	18.83	18.64	18.53
	Sub - Test 2	18.93	18.88	18.85	16.93	16.88	16.85	17.63	17.58	17.55
	Sub - Test 3	19.67	19.78	19.45	17.67	17.78	17.45	18.37	18.48	18.15
	Sub - Test 4	19.09	19.06	18.93	17.09	17.06	16.93	17.79	17.76	17.63
	Sub - Test 5	20.81	21.10	20.77	18.81	19.10	18.77	19.51	19.80	19.47
DC-HSDPA	Sub - Test 1	21.05	21.00	20.93	19.05	19.00	18.93	19.75	19.70	19.63
	Sub - Test 2	20.95	21.14	20.79	18.95	19.14	18.79	19.65	19.84	19.49
	Sub - Test 3	20.49	20.66	20.41	18.49	18.66	18.41	19.19	19.36	19.11
	Sub - Test 4	20.47	20.64	20.29	18.47	18.64	18.29	19.17	19.34	18.99



LTE Band 2				Maximum Output Power(dBm)			Main Antenna EIRP (dBm)			Second Antenna EIRP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18607/1850.7	18900/1880	19193/1909.3	18607/1850.7	18900/1880	19193/1909.3	18607/1850.7	18900/1880	19193/1909.3
1.4MHz	QPSK	1	0	22.20	21.97	21.88	20.20	19.97	19.88	20.90	20.67	20.58
		1	2	22.13	21.85	21.92	20.13	19.85	19.92	20.83	20.55	20.62
		1	5	21.81	21.51	21.60	19.81	19.51	19.60	20.51	20.21	20.30
		3	0	23.21	22.90	22.90	21.21	20.90	20.90	21.91	21.60	21.60
		3	2	23.01	22.89	22.97	21.01	20.89	20.97	21.71	21.59	21.67
		3	3	22.92	22.72	22.86	20.92	20.72	20.86	21.62	21.42	21.56
		6	0	22.07	21.89	22.04	20.07	19.89	20.04	20.77	20.59	20.74
	16QAM	1	0	22.20	22.13	22.13	20.20	20.13	20.13	20.90	20.83	20.83
		1	2	22.18	22.13	22.14	20.18	20.13	20.14	20.88	20.83	20.84
		1	5	21.83	21.75	21.81	19.83	19.75	19.81	20.53	20.45	20.51
		3	0	22.13	21.89	21.91	20.13	19.89	19.91	20.83	20.59	20.61
		3	2	21.99	21.93	21.96	19.99	19.93	19.96	20.69	20.63	20.66
		3	3	21.81	21.76	21.79	19.81	19.76	19.79	20.51	20.46	20.49
		6	0	20.96	20.92	21.02	18.96	18.92	19.02	19.66	19.62	19.72
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18615/1851.5	18900/1880	19185/1908.5	18615/1851.5	18900/1880	19185/1908.5	18615/1851.5	18900/1880	19185/1908.5
3MHz	QPSK	1	0	22.22	22.01	21.91	20.22	20.01	19.91	20.92	20.71	20.61
		1	7	22.11	21.88	21.96	20.11	19.88	19.96	20.81	20.58	20.66
		1	14	21.84	21.56	21.64	19.84	19.56	19.64	20.54	20.26	20.34
		8	0	22.31	22.02	22.03	20.31	20.02	20.03	21.01	20.72	20.73
		8	4	22.13	21.99	22.09	20.13	19.99	20.09	20.83	20.69	20.79
		8	7	22.02	21.83	21.96	20.02	19.83	19.96	20.72	20.53	20.66
		15	0	22.07	21.93	22.07	20.07	19.93	20.07	20.77	20.63	20.77
	16QAM	1	0	22.23	22.15	22.16	20.23	20.15	20.16	20.93	20.85	20.86
		1	7	22.21	22.13	22.18	20.21	20.13	20.18	20.91	20.83	20.88
		1	14	21.85	21.79	21.84	19.85	19.79	19.84	20.55	20.49	20.54
		8	0	21.24	21.02	21.03	19.24	19.02	19.03	19.94	19.72	19.73
		8	4	21.10	21.06	21.08	19.10	19.06	19.08	19.80	19.76	19.78
		8	7	20.91	20.88	20.92	18.91	18.88	18.92	19.61	19.58	19.62
		15	0	20.99	20.96	21.05	18.99	18.96	19.05	19.69	19.66	19.75



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18625/ 1852.5	18900/ 1880	19175/ 1907.5	18625/ 1852.5	18900/ 1880	19175/ 1907.5	18625/ 1852.5	18900/ 1880	19175/ 1907.5
5MHz	QPSK	1	0	22.19	21.99	21.87	20.19	19.99	19.87	20.89	20.69	20.57
		1	13	22.09	21.84	21.93	20.09	19.84	19.93	20.79	20.54	20.63
		1	24	21.81	21.51	21.60	19.81	19.51	19.60	20.51	20.21	20.30
		12	0	22.28	21.97	21.99	20.28	19.97	19.99	20.98	20.67	20.69
		12	6	22.11	21.95	22.04	20.11	19.95	20.04	20.81	20.65	20.74
		12	13	22.00	21.81	21.92	20.00	19.81	19.92	20.70	20.51	20.62
		25	0	22.07	21.92	22.05	20.07	19.92	20.05	20.77	20.62	20.75
	16QAM	1	0	22.20	22.11	22.13	20.20	20.11	20.13	20.90	20.81	20.83
		1	13	22.18	22.11	22.15	20.18	20.11	20.15	20.88	20.81	20.85
		1	24	21.82	21.77	21.80	19.82	19.77	19.80	20.52	20.47	20.50
		12	0	21.22	20.98	21.00	19.22	18.98	19.00	19.92	19.68	19.70
		12	6	21.07	21.01	21.04	19.07	19.01	19.04	19.77	19.71	19.74
		12	13	20.88	20.83	20.88	18.88	18.83	18.88	19.58	19.53	19.58
		25	0	20.97	20.92	21.00	18.97	18.92	19.00	19.67	19.62	19.70
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18650/ 1855	18900/ 1880	19150/ 1905	18650/ 1855	18900/ 1880	19150/ 1905	18650/ 1855	18900/ 1880	19150/ 1905
10MHz	QPSK	1	0	22.21	22.00	21.90	20.21	20.00	19.90	20.91	20.70	20.60
		1	25	22.12	21.89	21.97	20.12	19.89	19.97	20.82	20.59	20.67
		1	49	21.83	21.55	21.63	19.83	19.55	19.63	20.53	20.25	20.33
		25	0	22.31	22.02	22.03	20.31	20.02	20.03	21.01	20.72	20.73
		25	13	22.14	22.00	22.08	20.14	20.00	20.08	20.84	20.70	20.78
		25	25	22.02	21.85	21.97	20.02	19.85	19.97	20.72	20.55	20.67
		50	0	22.11	21.94	22.09	20.11	19.94	20.09	20.81	20.64	20.79
	16QAM	1	0	22.22	22.14	22.15	20.22	20.14	20.15	20.92	20.84	20.85
		1	25	22.21	22.15	22.18	20.21	20.15	20.18	20.91	20.85	20.88
		1	49	21.85	21.79	21.83	19.85	19.79	19.83	20.55	20.49	20.53
		25	0	21.25	21.03	21.04	19.25	19.03	19.04	19.95	19.73	19.74
		25	13	21.09	21.05	21.07	19.09	19.05	19.07	19.79	19.75	19.77
		25	25	20.91	20.88	20.92	18.91	18.88	18.92	19.61	19.58	19.62
		50	0	21.00	20.97	21.04	19.00	18.97	19.04	19.70	19.67	19.74
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18675/ 1857.5	18900/ 1880	19125/ 1902.5	18675/ 1857.5	18900/ 1880	19125/ 1902.5	18675/ 1857.5	18900/ 1880	19125/ 1902.5
15MHz	QPSK	1	0	22.20	21.96	21.88	20.20	19.96	19.88	20.90	20.66	20.58



		1	38	22.10	21.88	21.94	20.10	19.88	19.94	20.80	20.58	20.64
		1	74	21.80	21.50	21.59	19.80	19.50	19.59	20.50	20.20	20.29
		36	0	22.29	21.98	22.00	20.29	19.98	20.00	20.99	20.68	20.70
		36	18	22.11	21.95	22.04	20.11	19.95	20.04	20.81	20.65	20.74
		36	39	21.99	21.82	21.93	19.99	19.82	19.93	20.69	20.52	20.63
		75	0	22.09	21.90	22.04	20.09	19.90	20.04	20.79	20.60	20.74
		75	0	22.09	21.90	22.04	20.09	19.90	20.04	20.79	20.60	20.74
	16QAM	1	0	22.17	22.12	22.13	20.17	20.12	20.13	20.87	20.82	20.83
		1	38	22.19	22.12	22.16	20.19	20.12	20.16	20.89	20.82	20.86
		1	74	21.82	21.75	21.80	19.82	19.75	19.80	20.52	20.45	20.50
		36	0	21.22	21.01	21.01	19.22	19.01	19.01	19.92	19.71	19.71
		36	18	21.06	21.00	21.03	19.06	19.00	19.03	19.76	19.70	19.73
		36	39	20.89	20.84	20.89	18.89	18.84	18.89	19.59	19.54	19.59
		75	0	20.97	20.92	21.00	18.97	18.92	19.00	19.67	19.62	19.70
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				18700/ 1860	18900/ 1880	19100/ 1900	18700/ 1860	18900/ 1880	19100/ 1900	18700/ 1860	18900/ 1880	19100/ 1900
20MHz	QPSK	1	0	22.17	21.92	21.85	20.17	19.92	19.85	20.87	20.62	20.55
		1	50	22.09	21.84	21.92	20.09	19.84	19.92	20.79	20.54	20.62
		1	99	21.78	21.49	21.56	19.78	19.49	19.56	20.48	20.19	20.26
		50	0	22.26	21.93	21.96	20.26	19.93	19.96	20.96	20.63	20.66
		50	25	22.09	21.91	22.01	20.09	19.91	20.01	20.79	20.61	20.71
		50	50	21.96	21.77	21.89	19.96	19.77	19.89	20.66	20.47	20.59
		100	0	22.06	21.85	22.00	20.06	19.85	20.00	20.76	20.55	20.70
	16QAM	1	0	22.24	22.08	22.08	20.24	20.08	20.08	20.94	20.78	20.78
		1	50	22.15	22.10	22.12	20.15	20.10	20.12	20.85	20.80	20.82
		1	99	21.80	21.72	21.78	19.80	19.72	19.78	20.50	20.42	20.48
		50	0	21.19	20.97	20.98	19.19	18.97	18.98	19.89	19.67	19.68
		50	25	21.03	20.98	21.00	19.03	18.98	19.00	19.73	19.68	19.70
		50	50	20.86	20.79	20.85	18.86	18.79	18.85	19.56	19.49	19.55
		100	0	20.95	20.88	20.97	18.95	18.88	18.97	19.65	19.58	19.67

### 6.2.Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
<b>GSM 1900 (GMSK)</b>	512	1850.2	0.240	0.308
	661	1880.0	0.244	0.307
	810	1909.8	0.247	0.309
<b>GPRS 1900 (GMSK)</b>	512	1850.2	0.245	0.314
	661	1880.0	0.247	0.308
	810	1909.8	0.249	0.305
<b>EGPRS 1900 (8PSK)</b>	512	1850.2	0.246	0.310
	661	1880.0	0.245	0.307
	810	1909.8	0.246	0.317
<b>WCDMA Band II (RMC)</b>	9262	1852.4	4.156	4.714
	9400	1880	4.166	4.700
	9538	1907.6	4.134	4.681

LTE Band 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
1	QPSK	1.4	18607	1850.7	0.263	0.388
			18900	1880.0	0.269	0.400
			19193	1909.3	0.274	0.420
		3	18615	1851.5	0.336	0.485
			18900	1880	0.334	0.492
			19185	1908.5	0.335	0.470
		5	18625	1852.5	0.464	0.645
			18900	1880	0.474	0.693
			19175	1907.5	0.485	0.674
		10	18650	1855	0.735	1.046
			18900	1880	0.687	0.943
			19150	1905	0.678	0.971
		15	18675	1857.5	1.067	1.405
			18900	1880	1.016	1.445
			19125	1902.5	1.071	1.459
20	18700	1860	1.353	1.935		
	18900	1880	1.329	1.760		





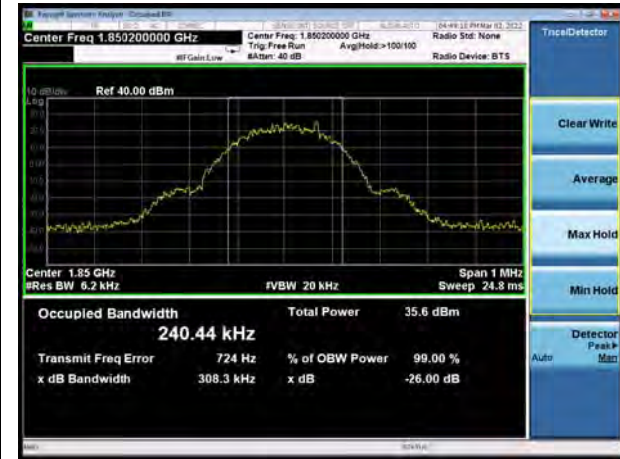
	16QAM	1.4	19100	1900	1.401	1.863						
			18607	1850.7	0.265	0.404						
							18900	1880.0	0.268	0.404		
		19193									1909.3	0.271
		3	18615	1851.5	0.336	0.477						
							18900	1880	0.343	0.462		
											19185	1908.5
		5	18625	1852.5	0.483	0.667						
							18900	1880	0.492	0.689		
											19175	1907.5
		10	18650	1855	0.661	0.954						
							18900	1880	0.693	0.954		
											19150	1905
		15	18675	1857.5	1.067	1.528						
							18900	1880	1.099	1.520		
											19125	1902.5
		20	18700	1860	1.466	2.037						
							18900	1880	1.360	1.887		
											19100	1900
		100%	QPSK	1.4	18607	1850.7	1.106	1.291				
					18900	1880.0	1.094	1.313				
									19193	1909.3	1.100	1.327
				3								
					18900	1880	2.697	2.978				
									19185	1908.5	2.707	2.979
				5	18625	1852.5	4.519	4.966				
									18900	1880	4.517	4.997
				10	18650	1855	8.978	9.801				
									18900	1880	8.986	9.807
				15	18675	1857.5	13.478	14.727				
									18900	1880	13.453	14.629
				20	18700	1860	17.925	19.364				
									18900	1880	17.949	19.580
19100	1900											
16QAM	1.4			18607	1850.7	1.098	1.318					
				18900	1880.0	1.102	1.300					
								19193	1909.3	1.097	1.300	



		3	18615	1851.5	2.697	3.007
			18900	1880	2.703	2.997
			19185	1908.5	2.696	2.989
		5	18625	1852.5	4.506	4.969
			18900	1880	4.527	4.966
			19175	1907.5	4.521	4.926
		10	18650	1855	8.995	9.816
			18900	1880	8.978	9.863
			19150	1905	8.998	9.845
		15	18675	1857.5	13.447	14.686
			18900	1880	13.454	14.546
			19125	1902.5	13.459	14.672
		20	18700	1860	17.927	19.442
			18900	1880	17.985	19.377
			19100	1900	17.942	19.369



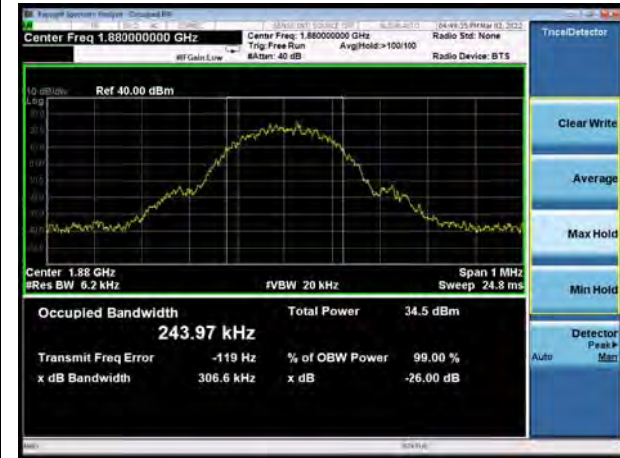
GSM1900 GSM CH-Low



GSM1900 GPRS CH-Low



GSM 1900 GSM CH-Middle



GSM 1900 GPRS CH-Middle



GSM 1900 GSM CH-High

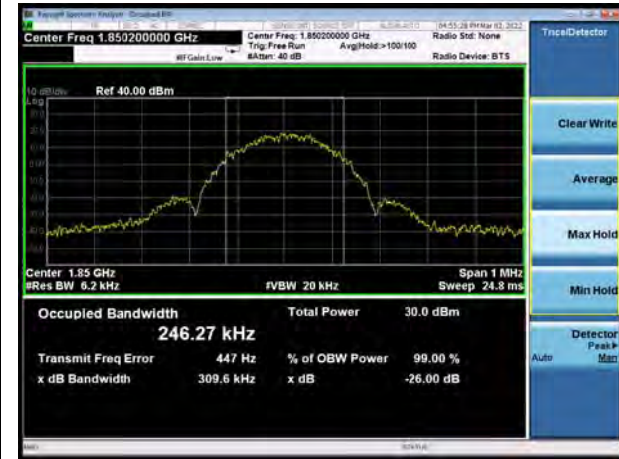


GSM 1900 GPRS CH-High





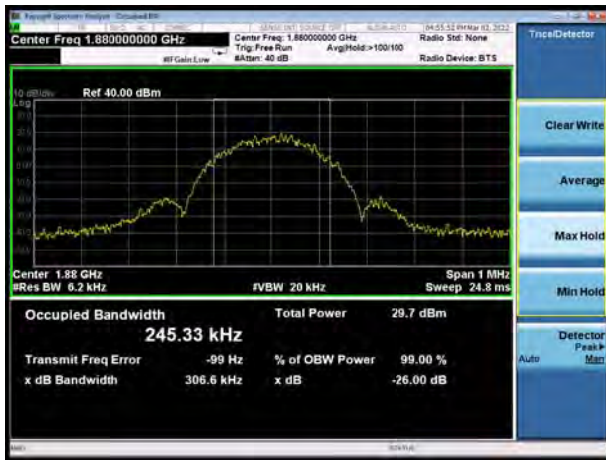
GSM1900 EGPRS CH-Low



WCDMA Band II RMC CH-Low



GSM 1900 EGPRS CH-Middle



WCDMA Band II RMC CH-Middle



GSM 1900 EGPRS CH-High



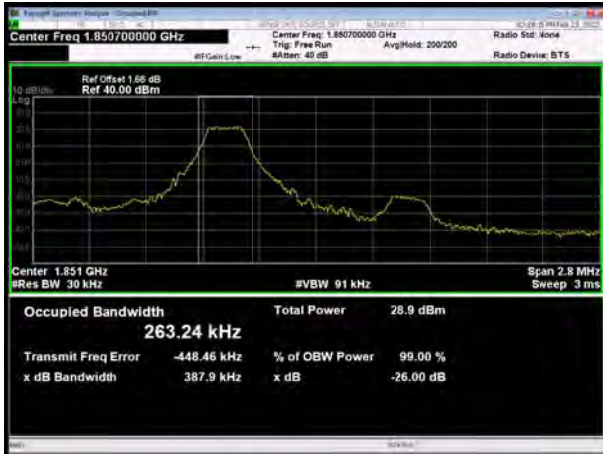
WCDMA Band II RMC CH-High



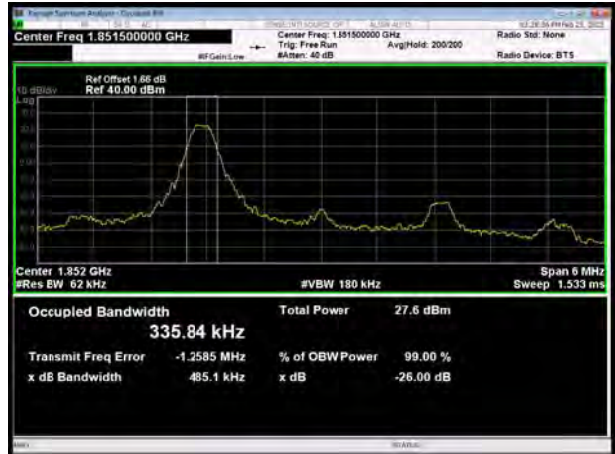


1RB

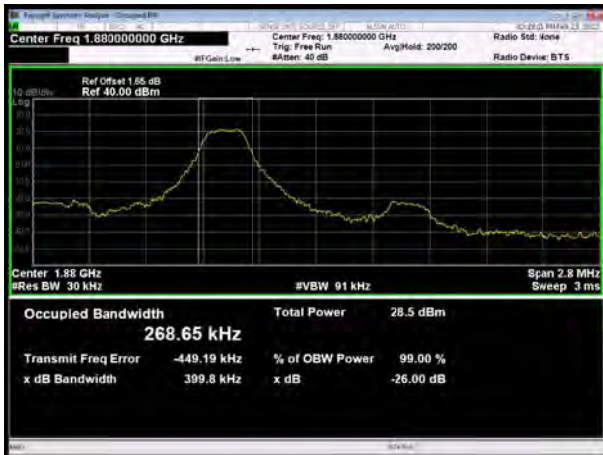
LTE Band 2 1.4MHz QPSK CH-Low



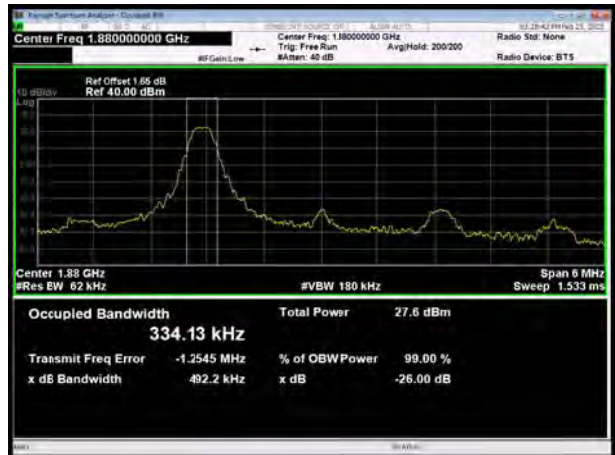
LTE Band 2 3MHz QPSK CH-Low



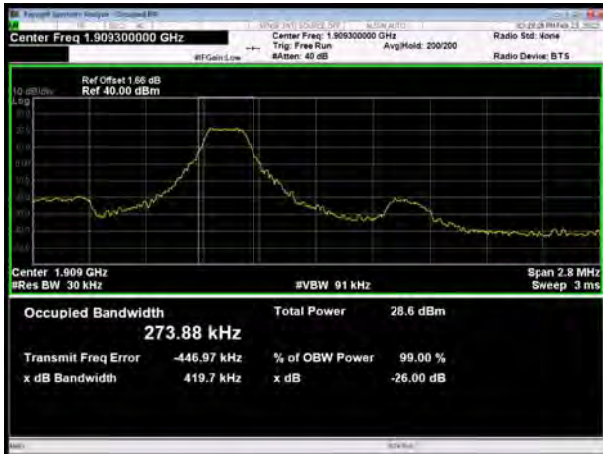
LTE Band 2 1.4MHz QPSK CH-Middle



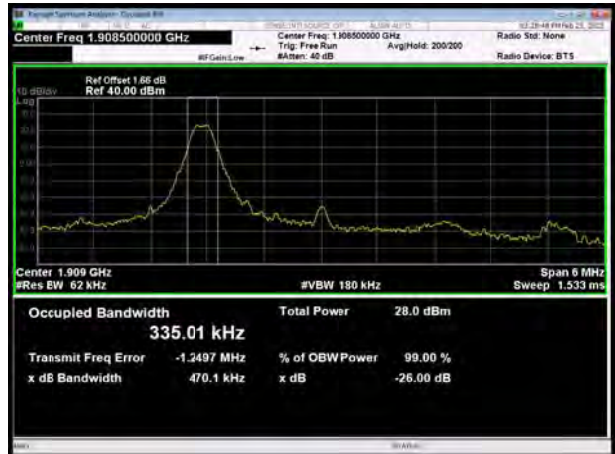
LTE Band 2 3MHz QPSK CH-Middle



LTE Band 2 1.4MHz QPSK CH-High

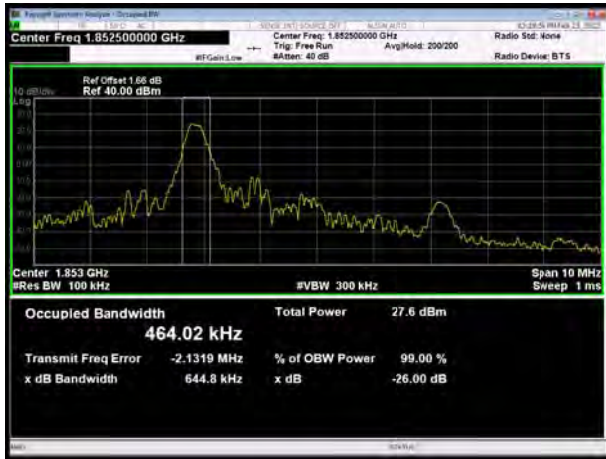


LTE Band 2 3MHz QPSK CH-High

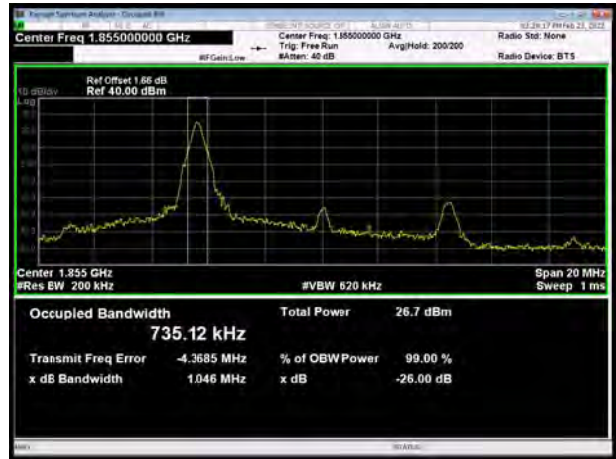




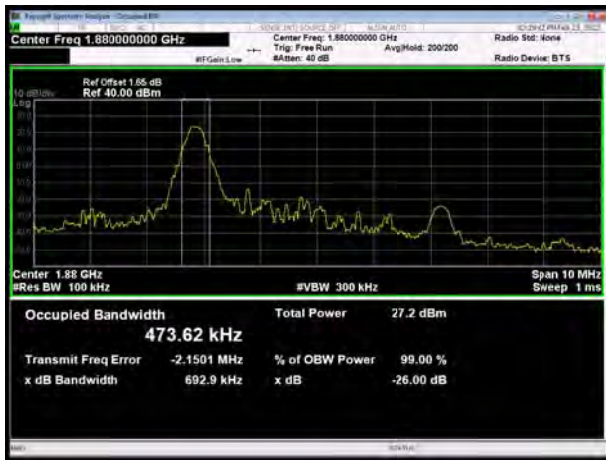
LTE Band 2 5MHz QPSK CH-Low



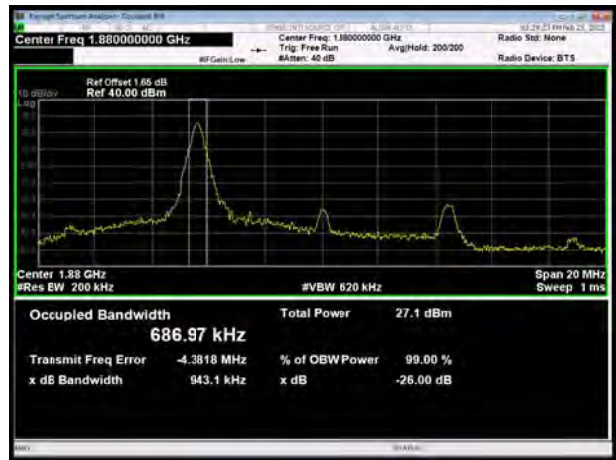
LTE Band 2 10MHz QPSK CH-Low



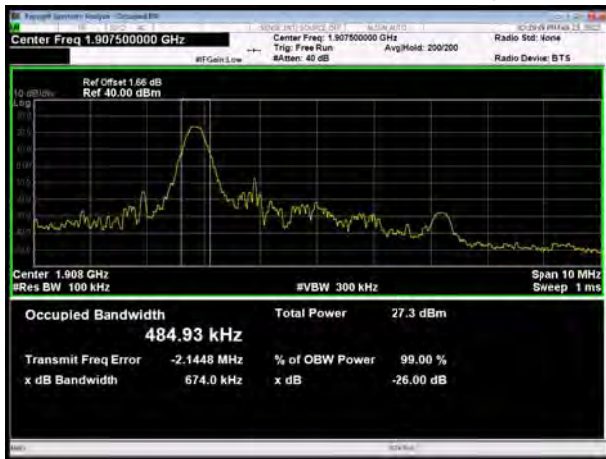
LTE Band 2 5MHz QPSK CH-Middle



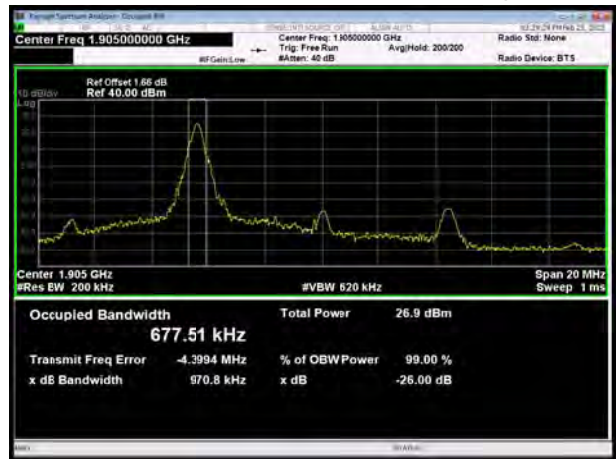
LTE Band 2 10MHz QPSK CH-Middle



LTE Band 2 5MHz QPSK CH-High

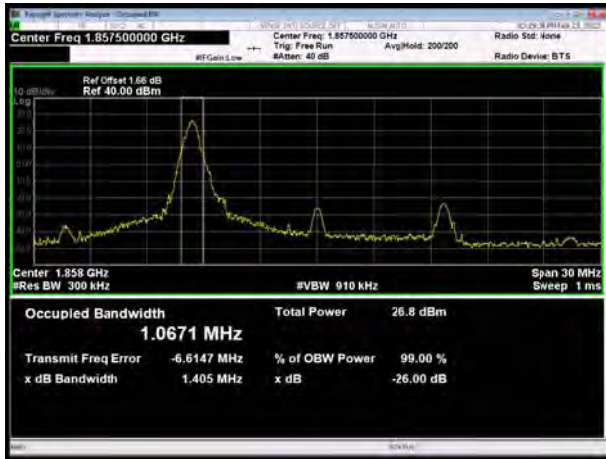


LTE Band 2 10MHz QPSK CH-High

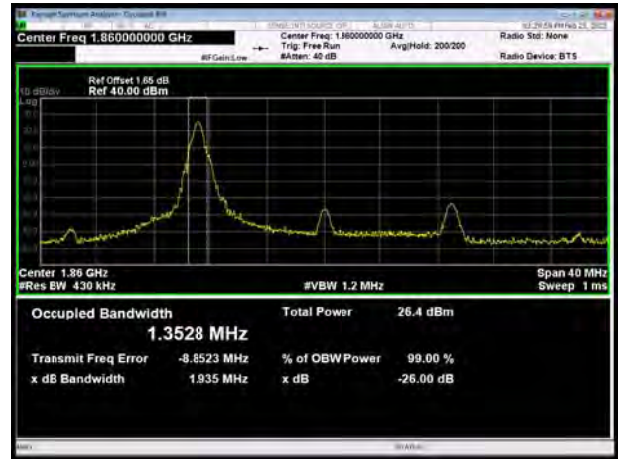




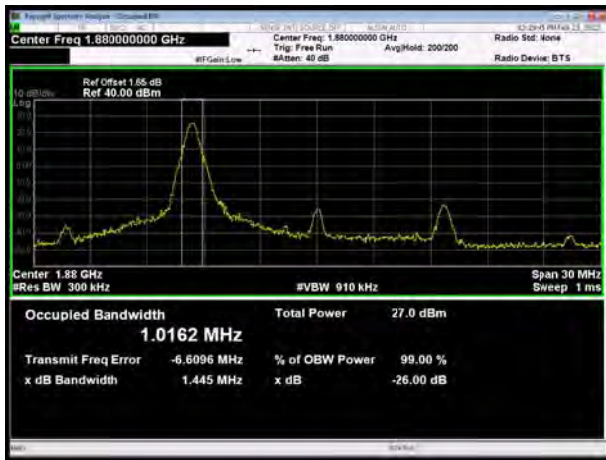
LTE Band 2 15MHz QPSK CH-Low



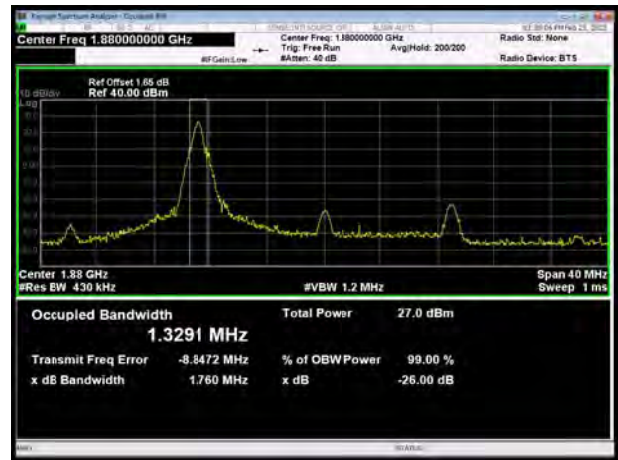
LTE Band 2 20MHz QPSK CH-Low



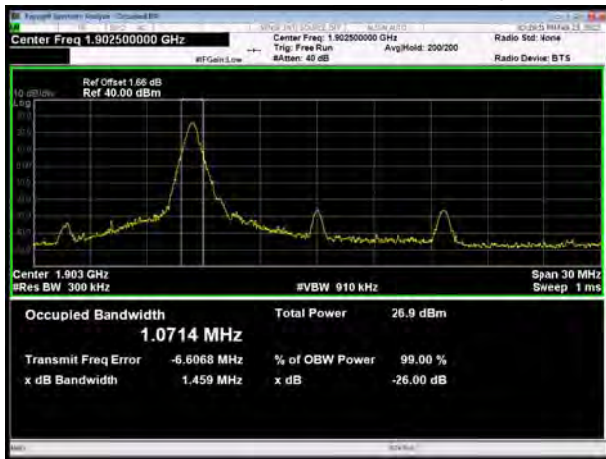
LTE Band 2 15MHz QPSK CH-Middle



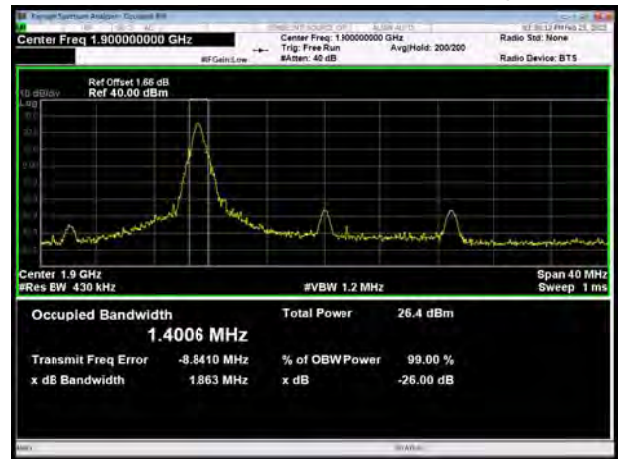
LTE Band 2 20MHz QPSK CH-Middle



LTE Band 2 15MHz QPSK CH-High

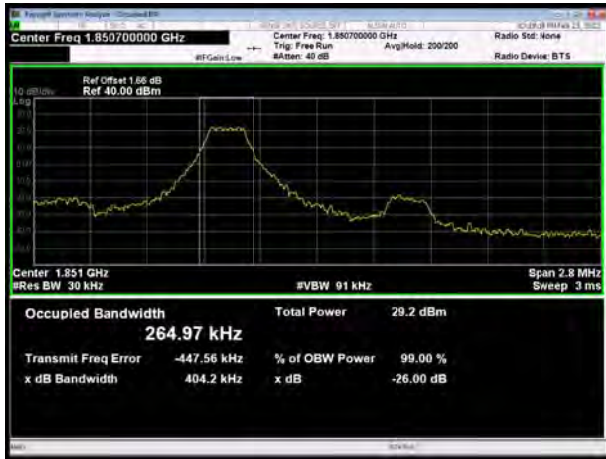


LTE Band 2 20MHz QPSK CH-High

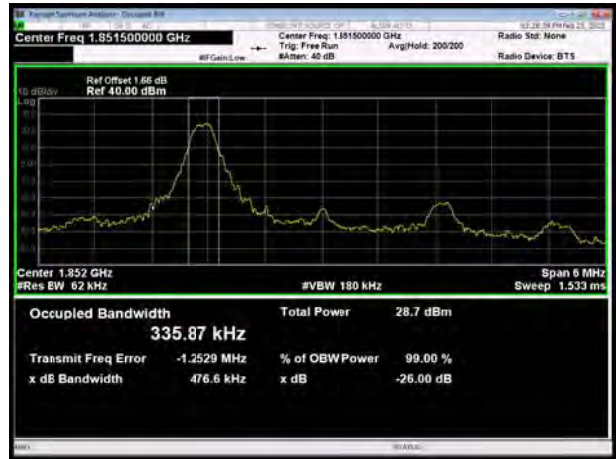




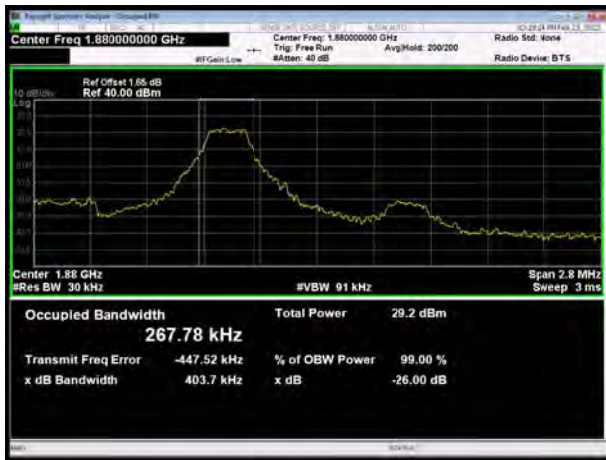
LTE Band 2 1.4MHz 16QAM CH-Low



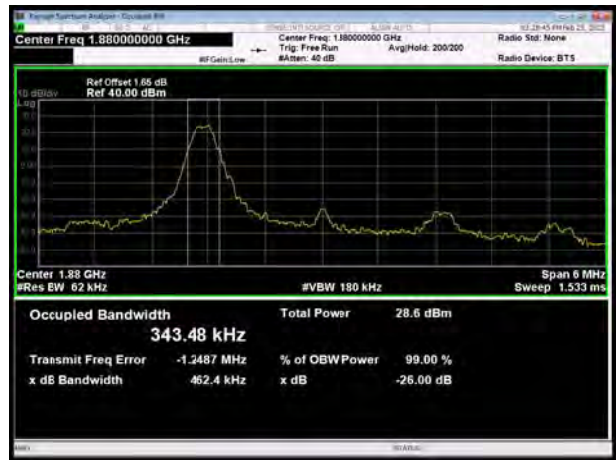
LTE Band 2 3MHz 16QAM CH-Low



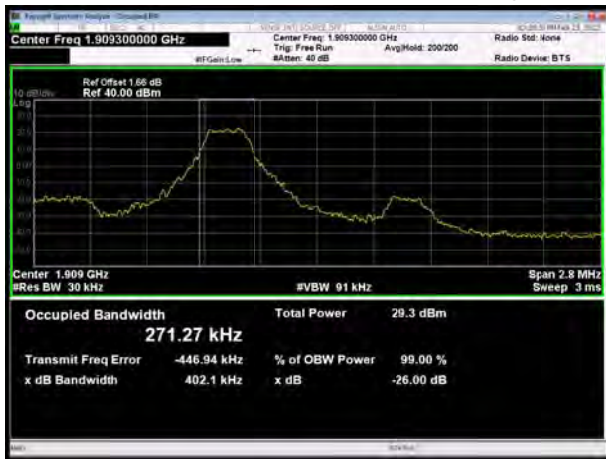
LTE Band 2 1.4MHz 16QAM CH-Middle



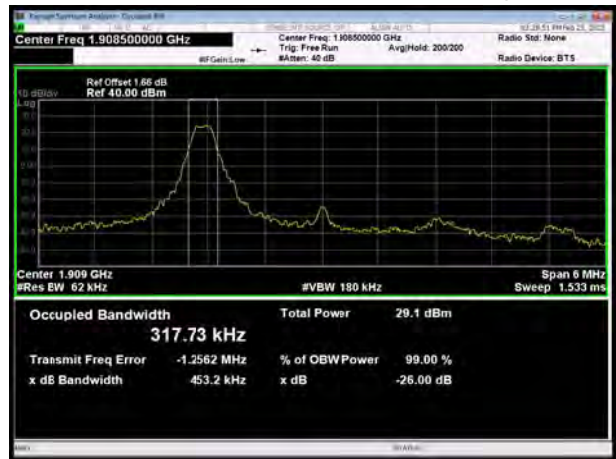
LTE Band 2 3MHz 16QAM CH-Middle



LTE Band 2 1.4MHz 16QAM CH-High



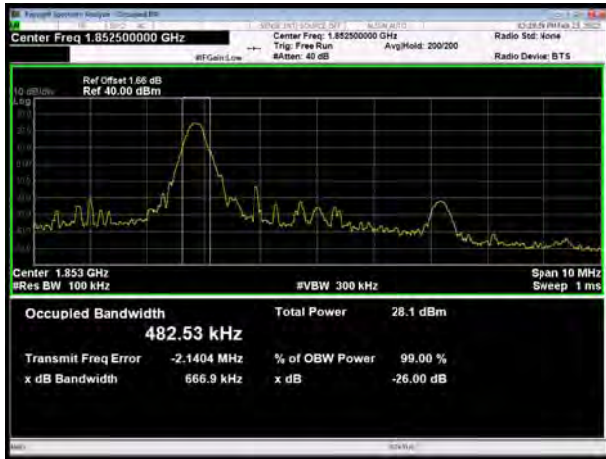
LTE Band 2 3MHz 16QAM CH-High



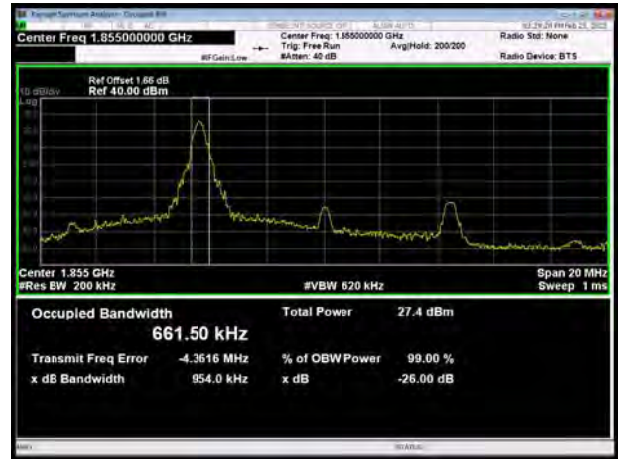




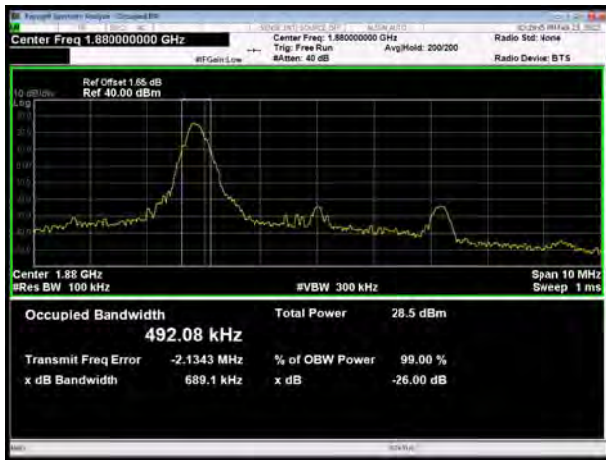
LTE Band 2 5MHz 16QAM CH-Low



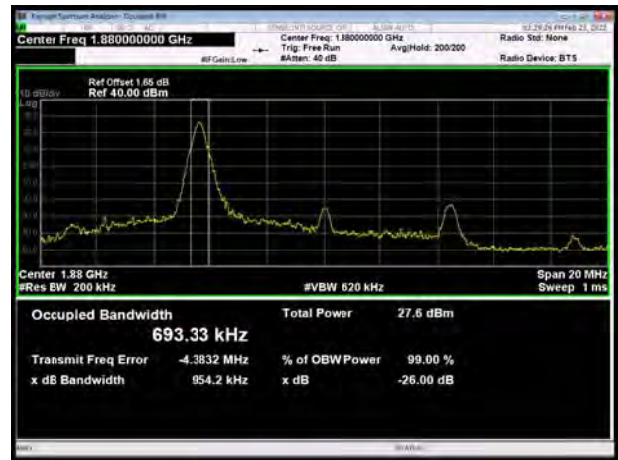
LTE Band 2 10MHz 16QAM CH-Low



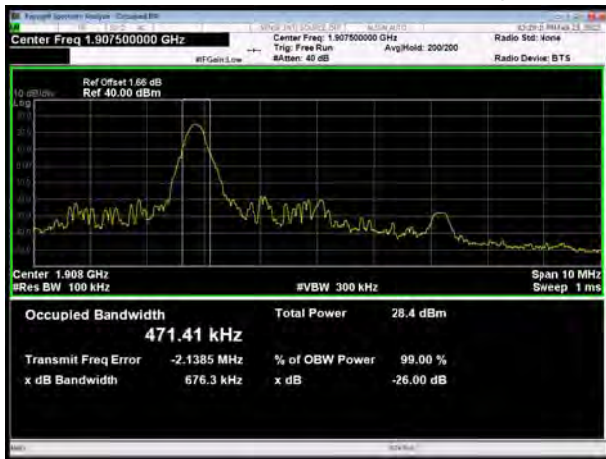
LTE Band 2 5MHz 16QAM CH-Middle



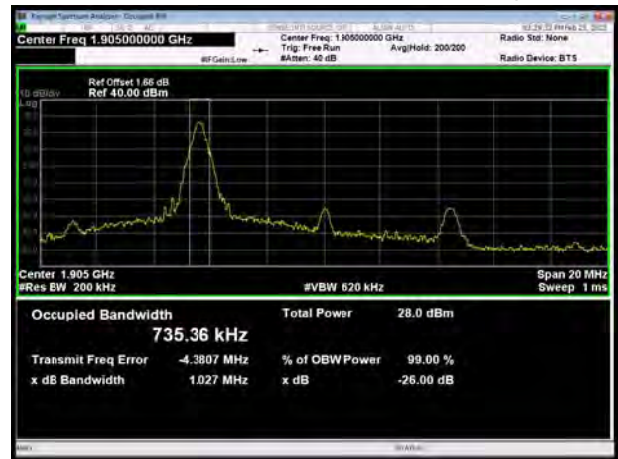
LTE Band 2 10MHz 16QAM CH-Middle



LTE Band 2 5MHz 16QAM CH-High

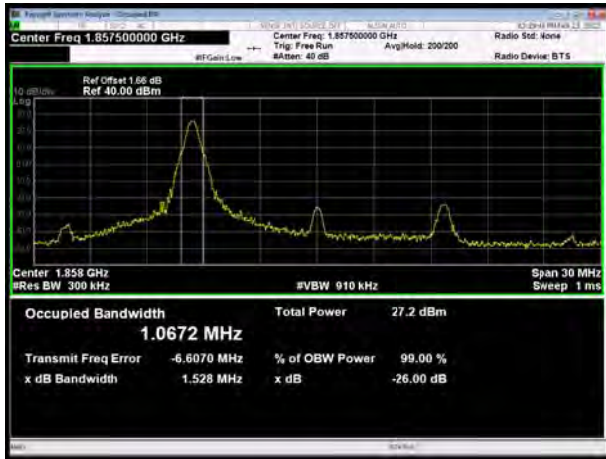


LTE Band 2 10MHz 16QAM CH-High

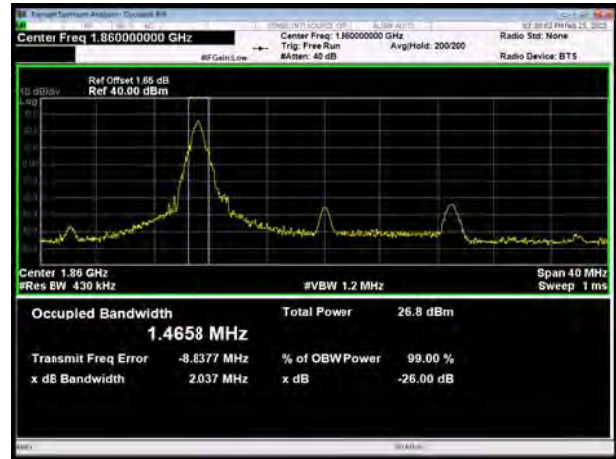




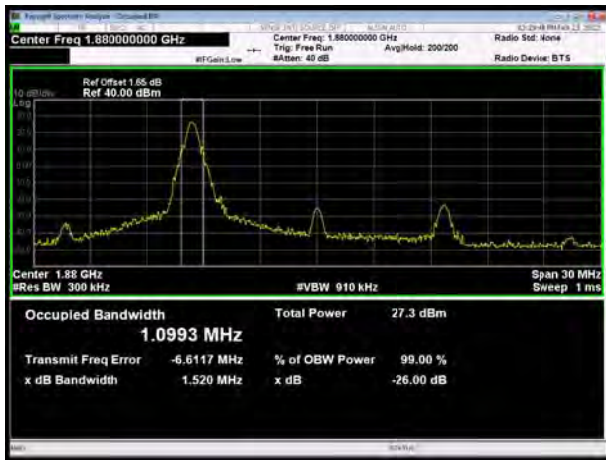
LTE Band 2 15MHz 16QAM CH-Low



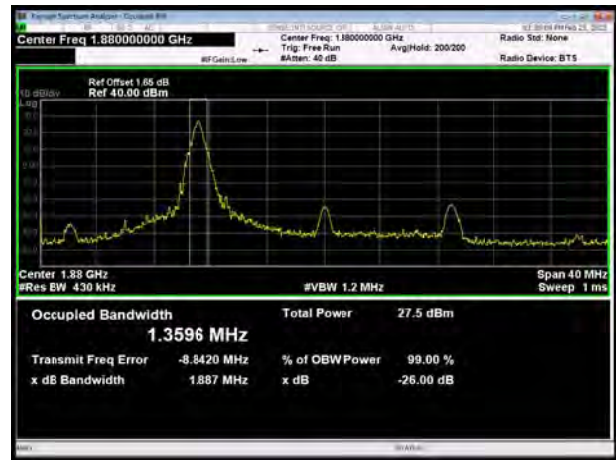
LTE Band 2 20MHz 16QAM CH-Low



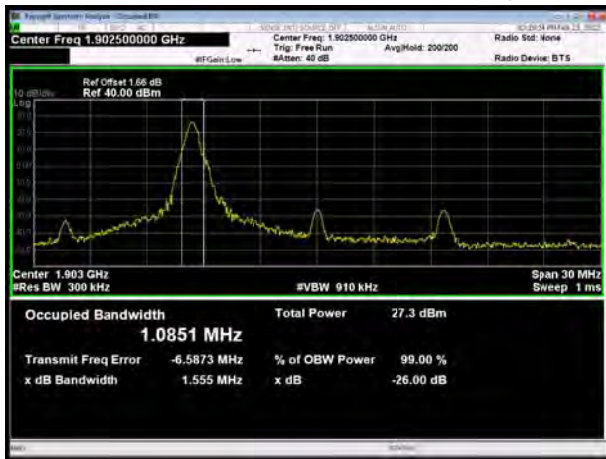
LTE Band 2 15MHz 16QAM CH-Middle



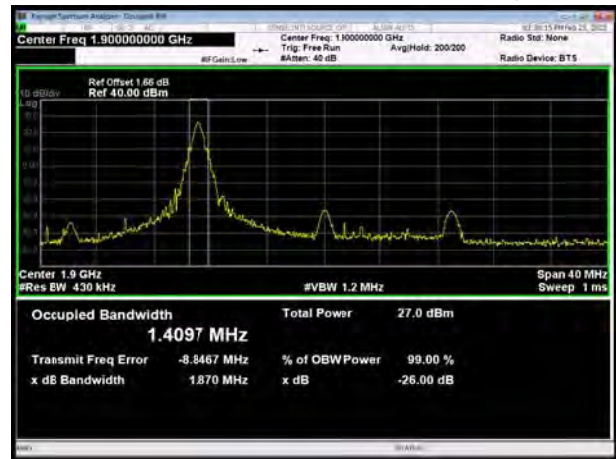
LTE Band 2 20MHz 16QAM CH-Middle



LTE Band 2 15MHz 16QAM CH-High



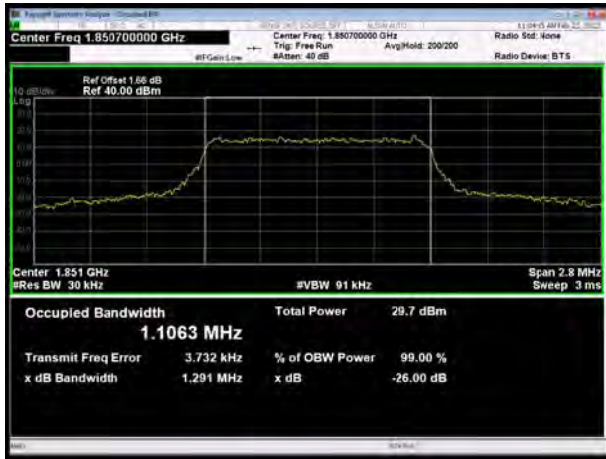
LTE Band 2 20MHz 16QAM CH-High



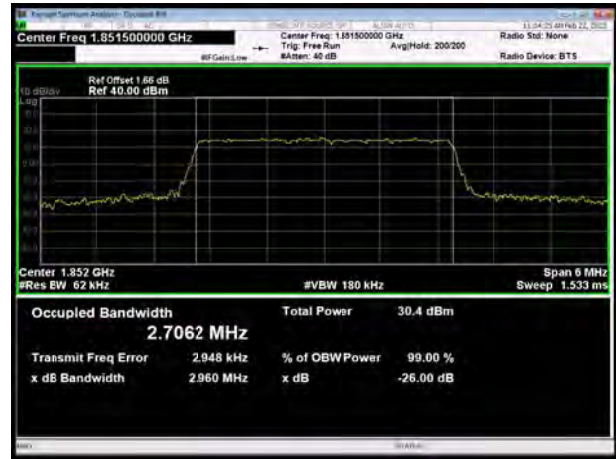


100%RB

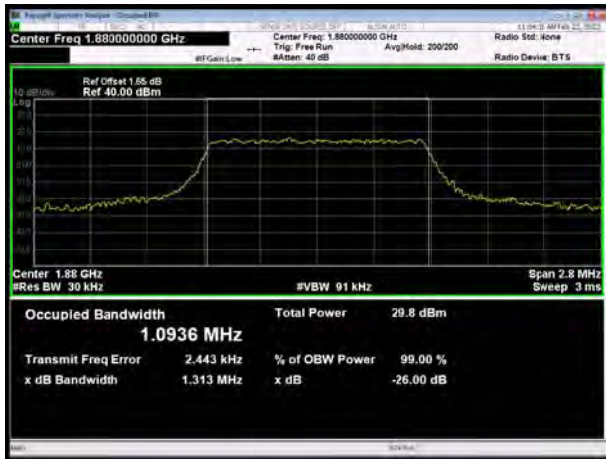
LTE Band 2 1.4MHz QPSK CH-Low



LTE Band 2 3MHz QPSK CH-Low



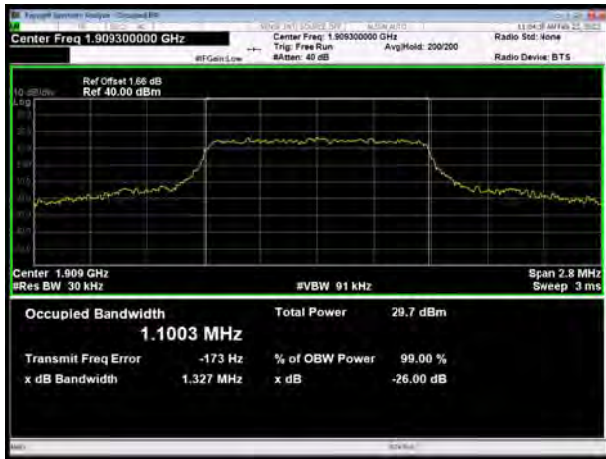
LTE Band 2 1.4MHz QPSK CH-Middle



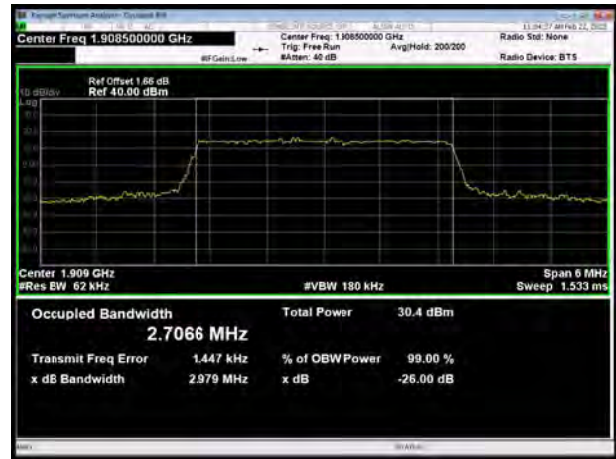
LTE Band 2 3MHz QPSK CH-Middle



LTE Band 2 1.4MHz QPSK CH-High

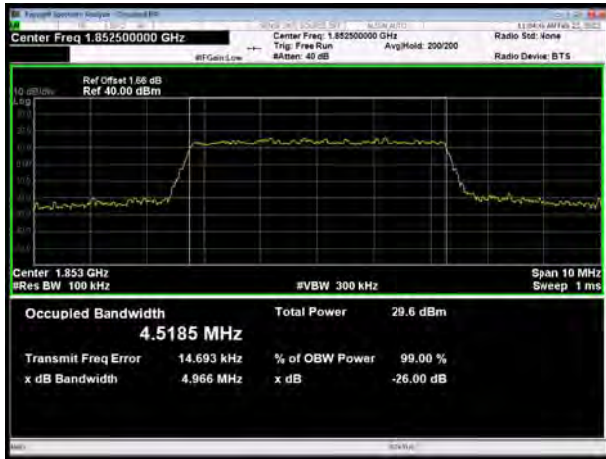


LTE Band 2 3MHz QPSK CH-High

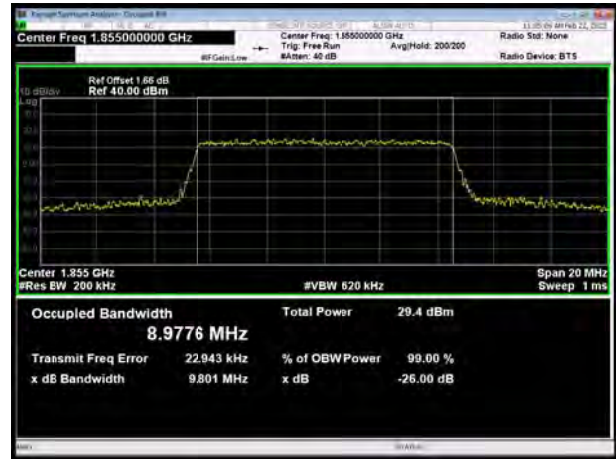




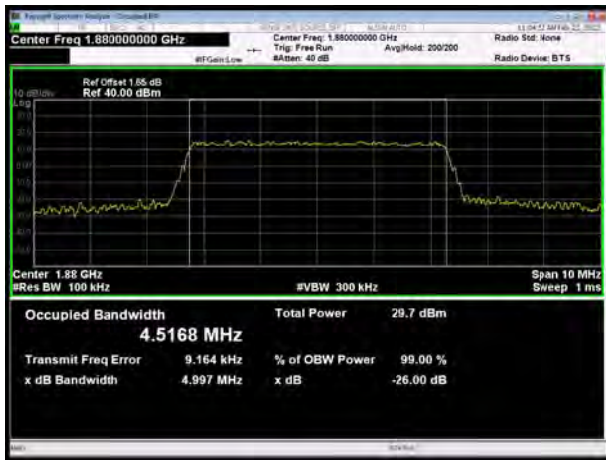
LTE Band 2 5MHz QPSK CH-Low



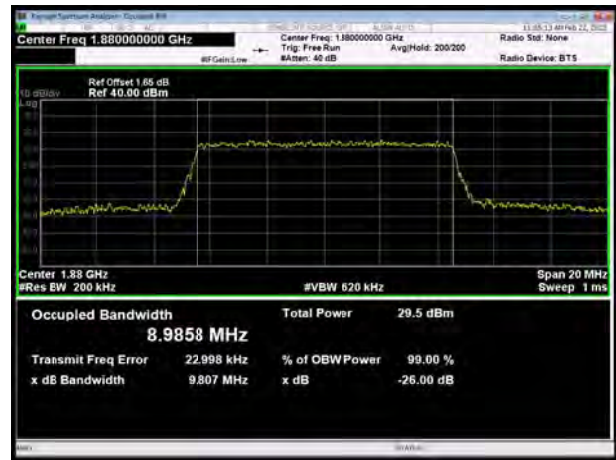
LTE Band 2 10MHz QPSK CH-Low



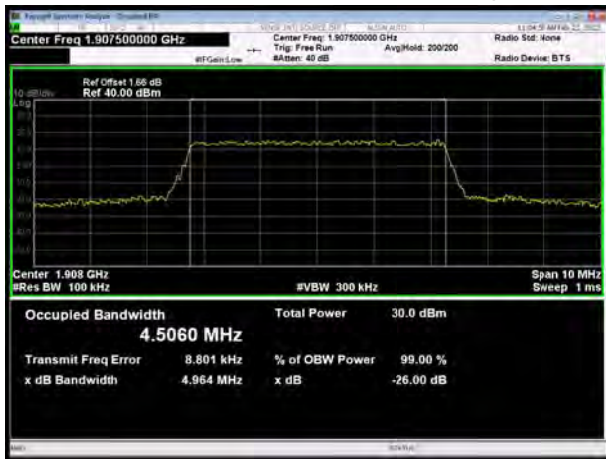
LTE Band 2 5MHz QPSK CH-Middle



LTE Band 2 10MHz QPSK CH-Middle



LTE Band 2 5MHz QPSK CH-High

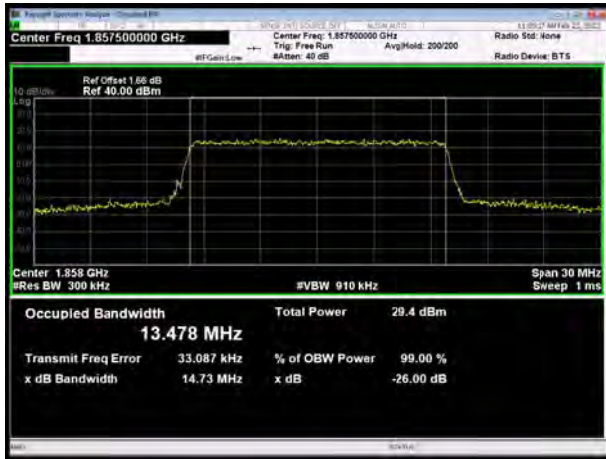


LTE Band 2 10MHz QPSK CH-High

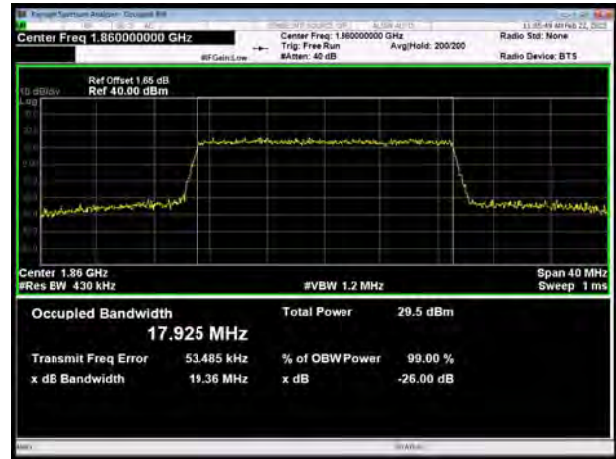




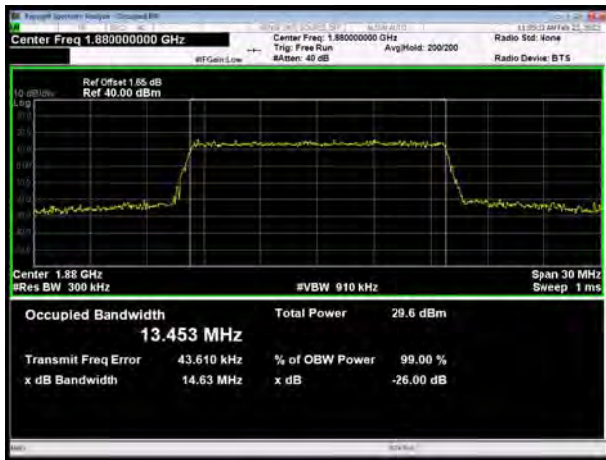
LTE Band 2 15MHz QPSK CH-Low



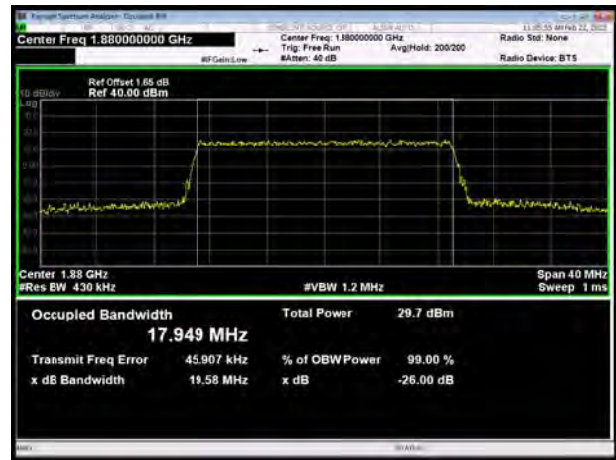
LTE Band 2 20MHz QPSK CH-Low



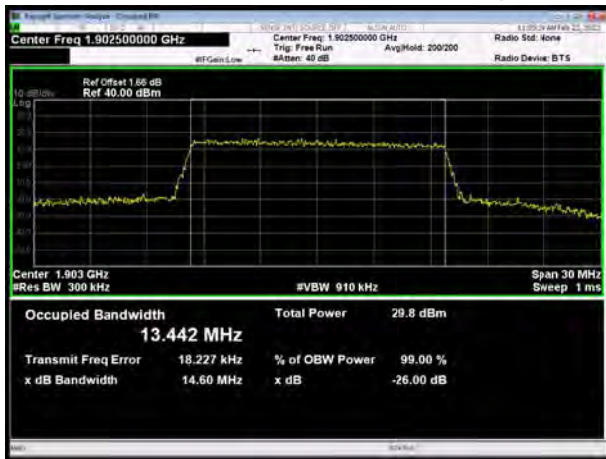
LTE Band 2 15MHz QPSK CH-Middle



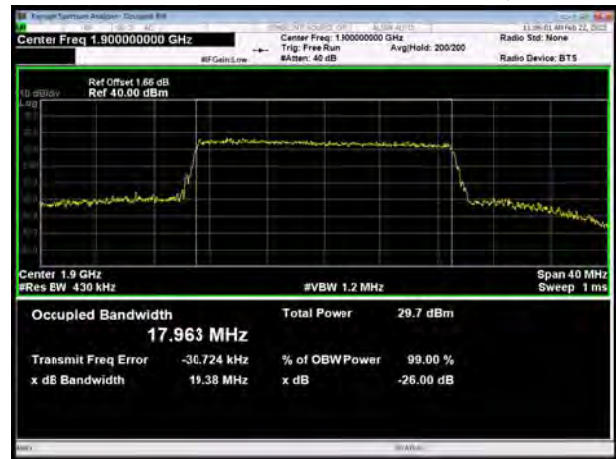
LTE Band 2 20MHz QPSK CH-Middle



LTE Band 2 15MHz QPSK CH-High

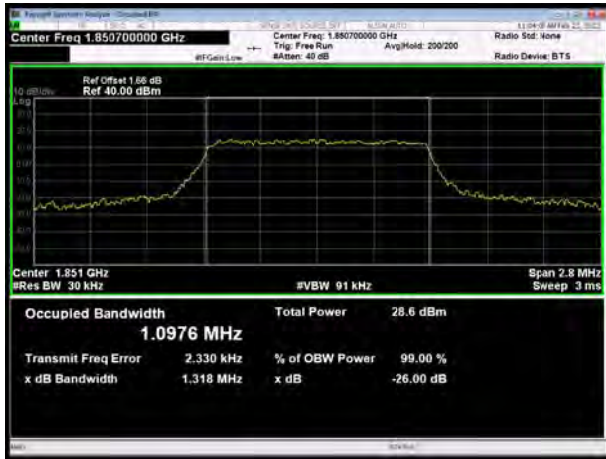


LTE Band 2 20MHz QPSK CH-High

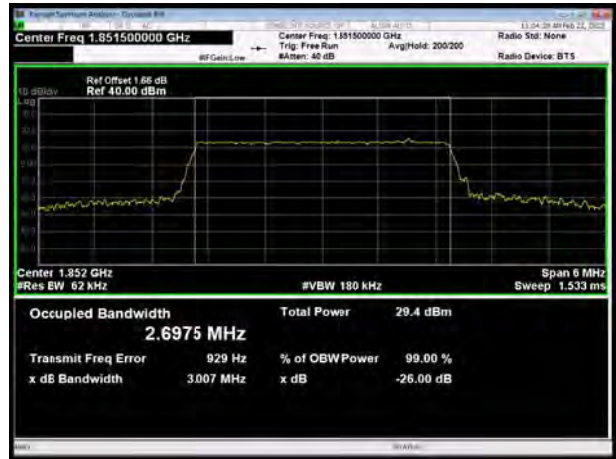




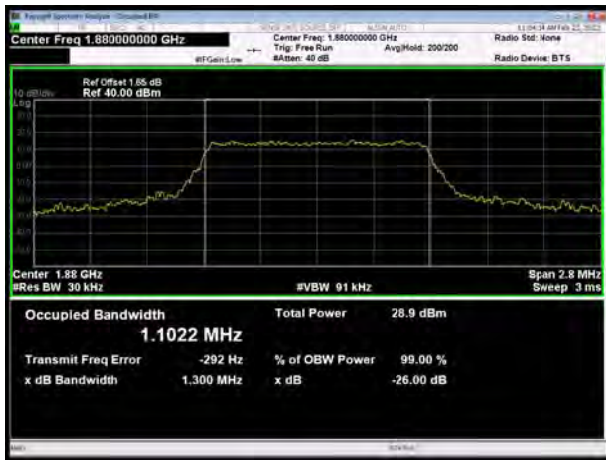
LTE Band 2 1.4MHz 16QAM CH-Low



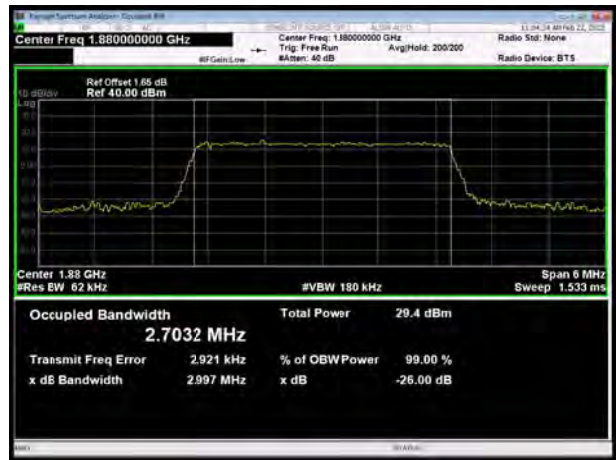
LTE Band 2 3MHz 16QAM CH-Low



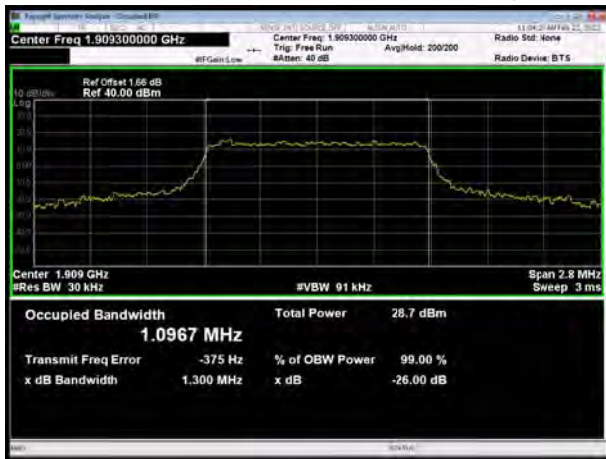
LTE Band 2 1.4MHz 16QAM CH-Middle



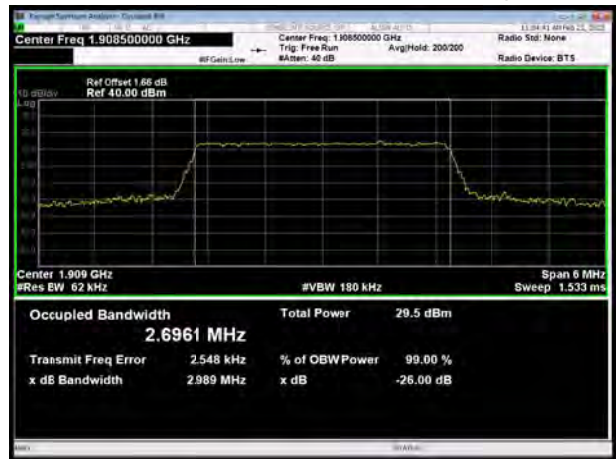
LTE Band 2 3MHz 16QAM CH-Middle

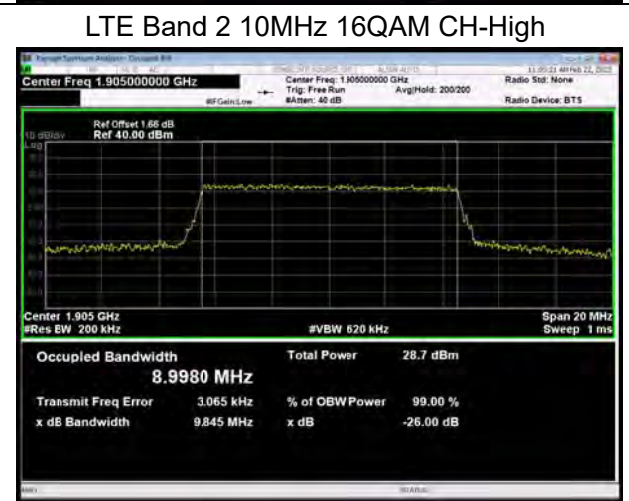
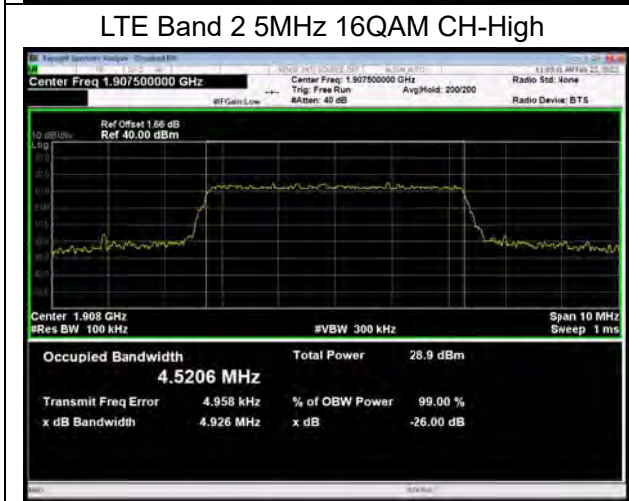
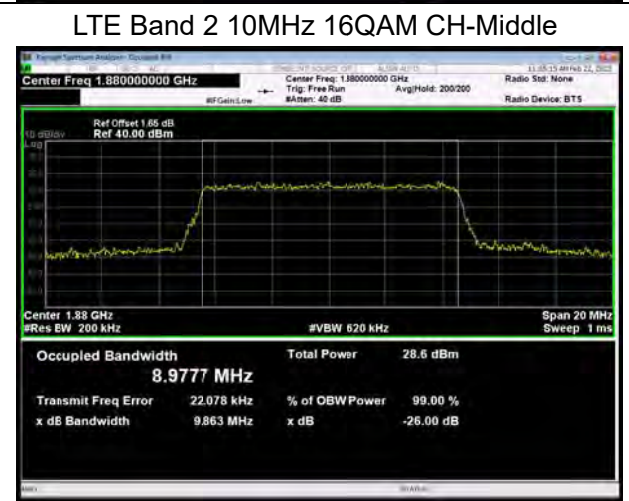
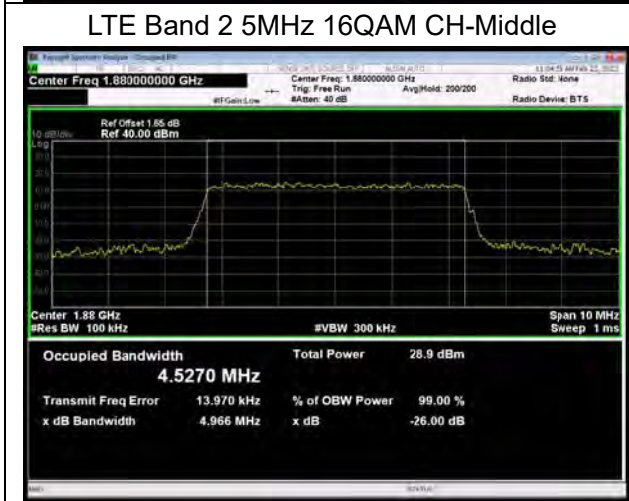
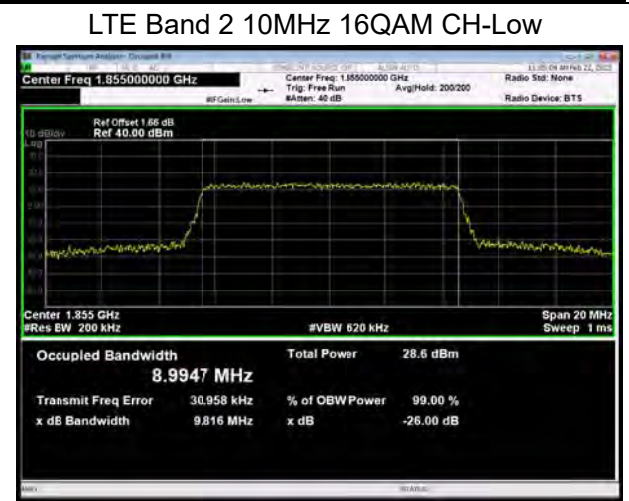
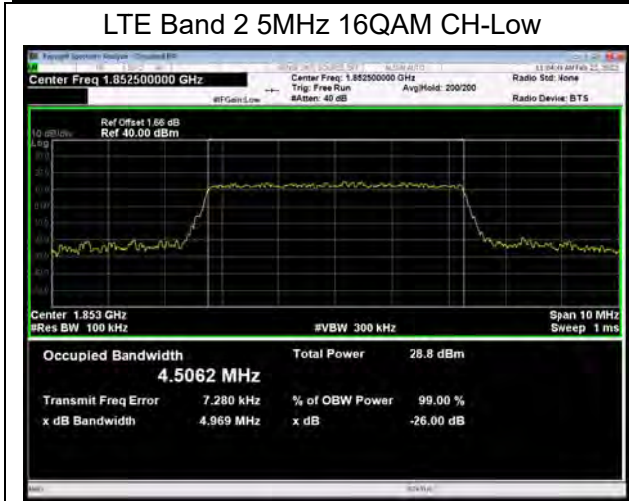


LTE Band 2 1.4MHz 16QAM CH-High



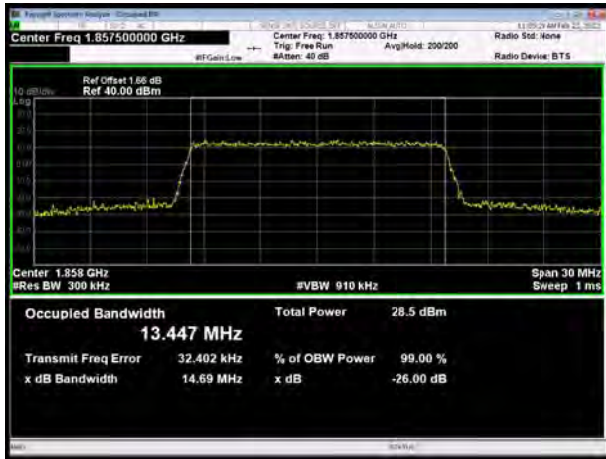
LTE Band 2 3MHz 16QAM CH-High



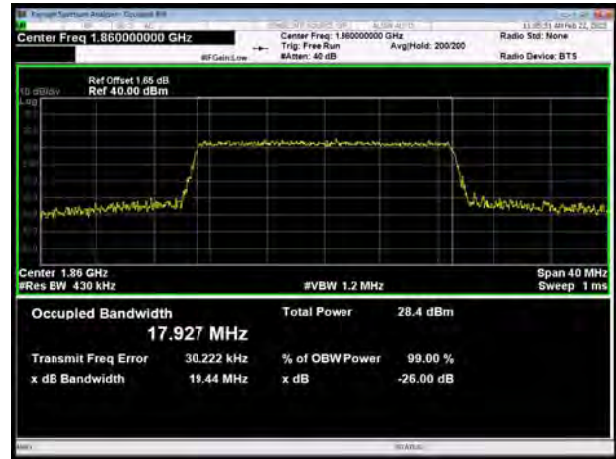




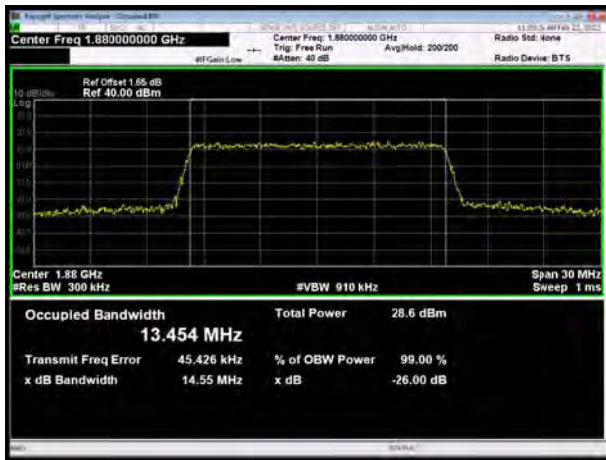
LTE Band 2 15MHz 16QAM CH-Low



LTE Band 2 20MHz 16QAM CH-Low



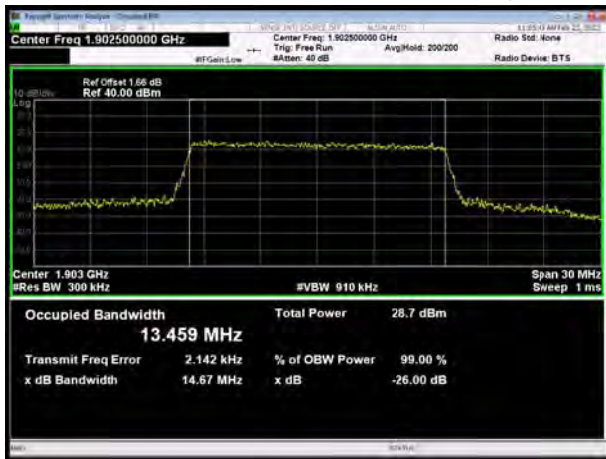
LTE Band 2 15MHz 16QAM CH-Middle



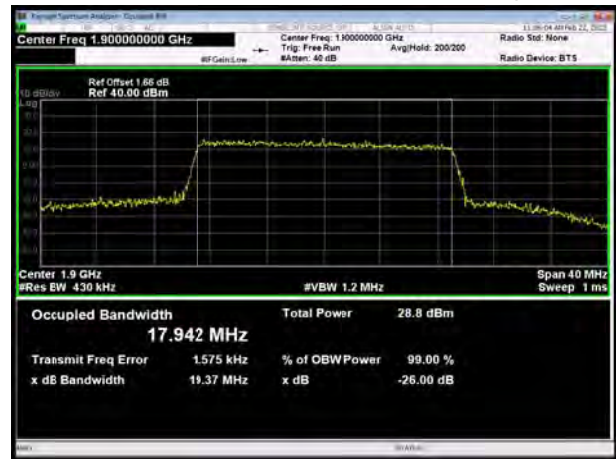
LTE Band 2 20MHz 16QAM CH-Middle



LTE Band 2 15MHz 16QAM CH-High

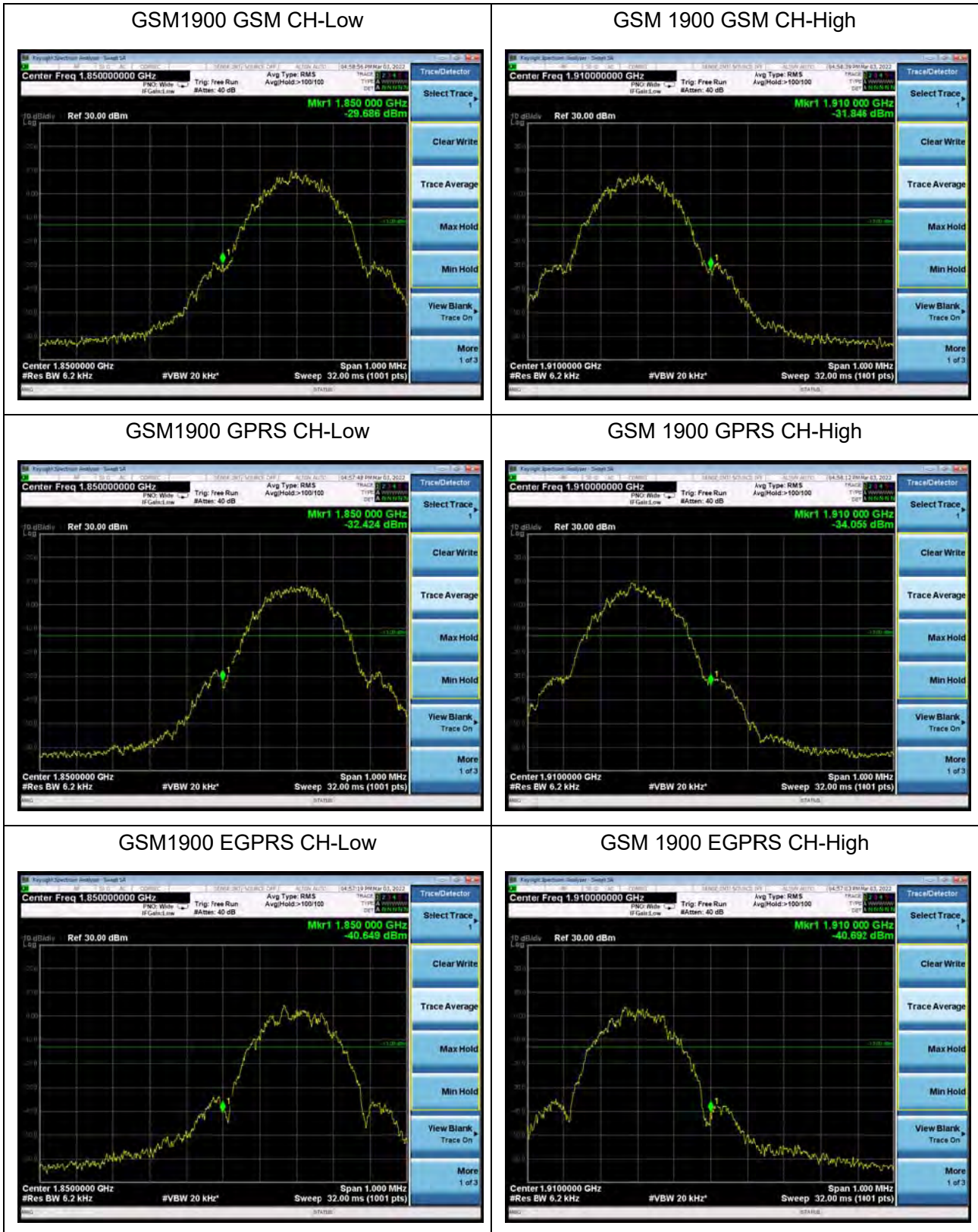


LTE Band 2 20MHz 16QAM CH-High





### 6.3. Band Edge Compliance





WCDMA Band II RMC CH-Low



WCDMA Band II RMC CH-High





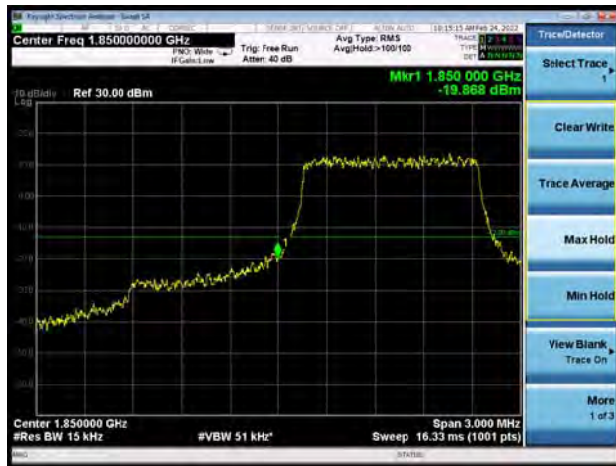
LTE Band 2 1.4MHz QPSK 1RB CH-Low



LTE Band 2 1.4MHz QPSK 1RB CH-High



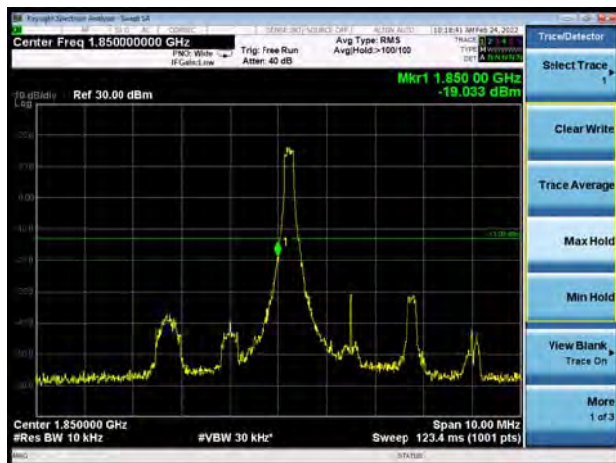
LTE Band 2 1.4MHz QPSK 100%RB CH-Low



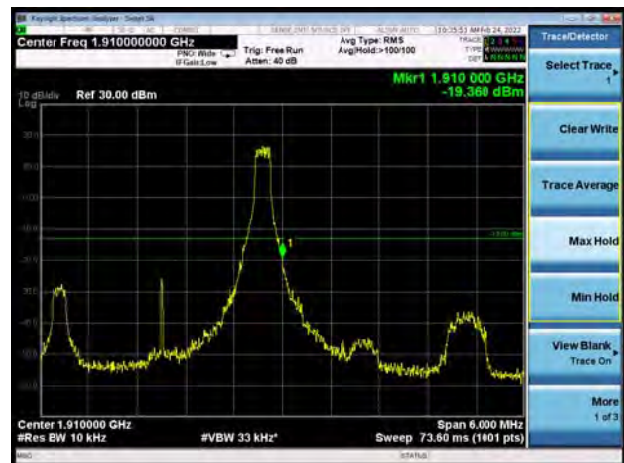
LTE Band 2 1.4MHz QPSK 100%RB CH-High



LTE Band 2 3MHz QPSK 1RB CH-Low



LTE Band 2 3MHz QPSK 1RB CH-High





LTE Band 2 3MHz QPSK 100%RB CH-Low



LTE Band 2 3MHz QPSK 100%RB CH-High



LTE Band 2 5MHz QPSK 1RB CH-Low



LTE Band 2 5MHz QPSK 1RB CH-High



LTE Band 2 5MHz QPSK 100%RB CH-Low

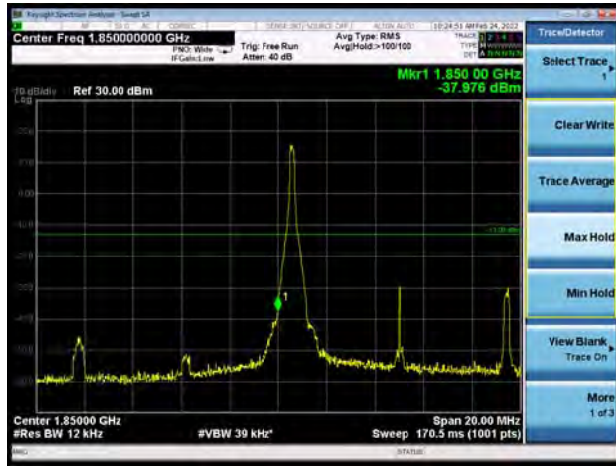


LTE Band 2 5MHz QPSK 100%RB CH-High

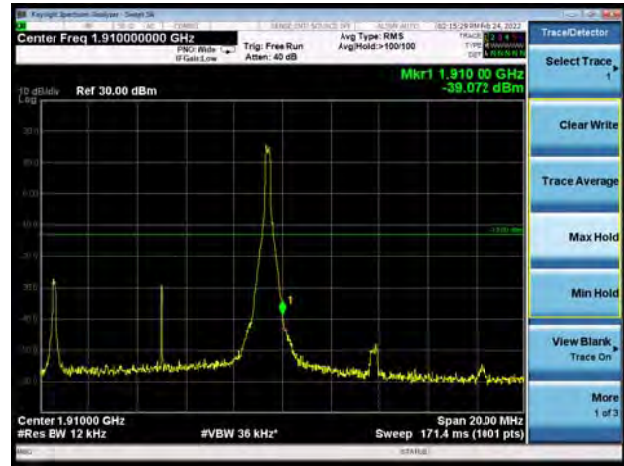




LTE Band 2 10MHz QPSK 1RB CH-Low



LTE Band 2 10MHz QPSK 1RB CH-High



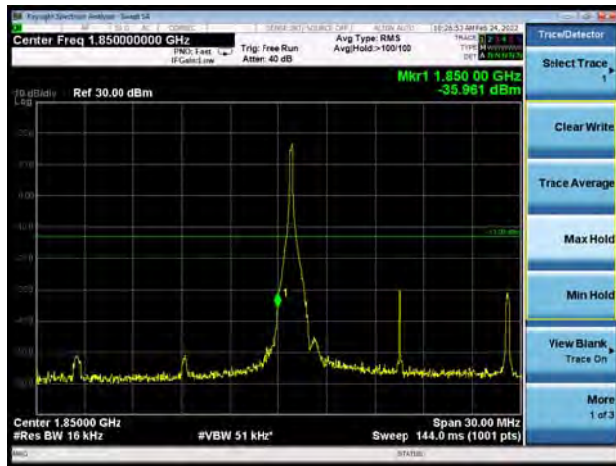
LTE Band 2 10MHz QPSK 100%RB CH-Low



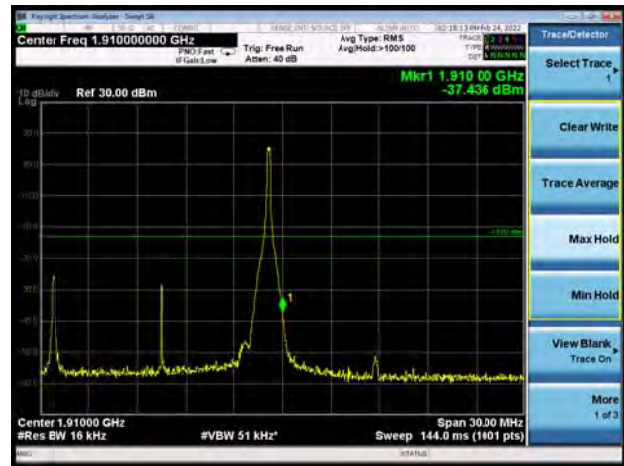
LTE Band 2 10MHz QPSK 100%RB CH-High



LTE Band 2 15MHz QPSK 1RB CH-Low

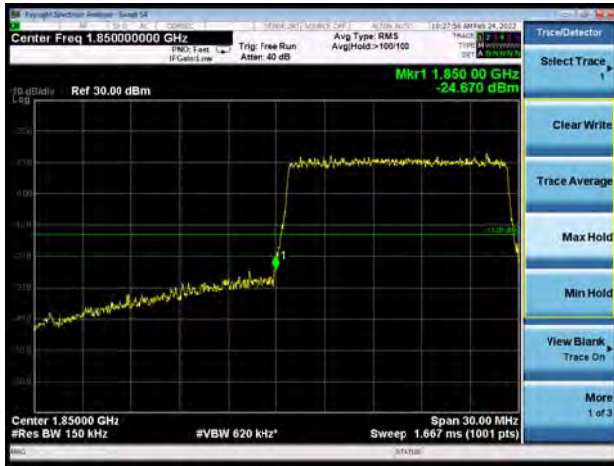


LTE Band 2 15MHz QPSK 1RB CH-High





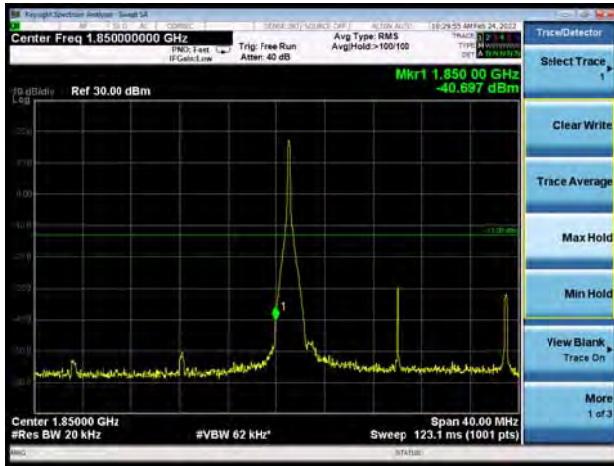
LTE Band 2 15MHz QPSK 100%RB CH-Low



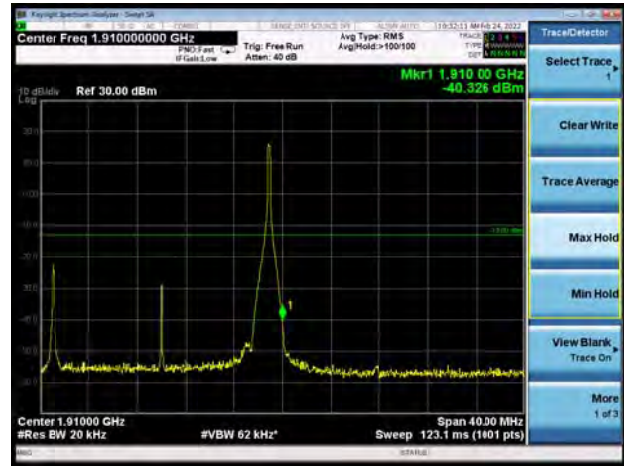
LTE Band 2 15MHz QPSK 100%RB CH-High



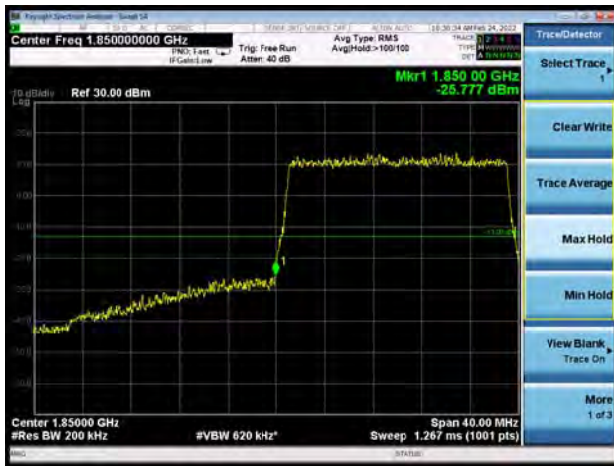
LTE Band 2 20MHz QPSK 1RB CH-Low



LTE Band 2 20MHz QPSK 1RB CH-High



LTE Band 2 20MHz QPSK 100%RB CH-Low



LTE Band 2 20MHz QPSK 100%RB CH-High





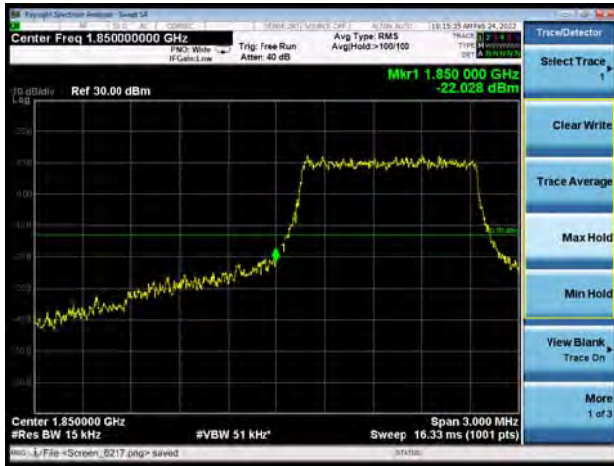
LTE Band 2 1.4MHz 16QAM 1RB CH-Low



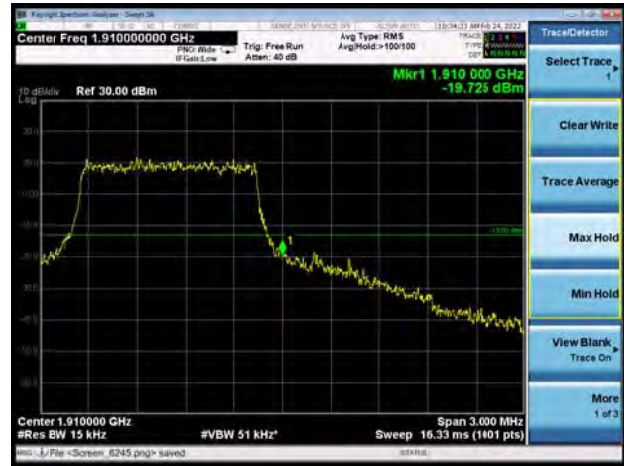
LTE Band 2 1.4MHz 16QAM 1RB CH-High



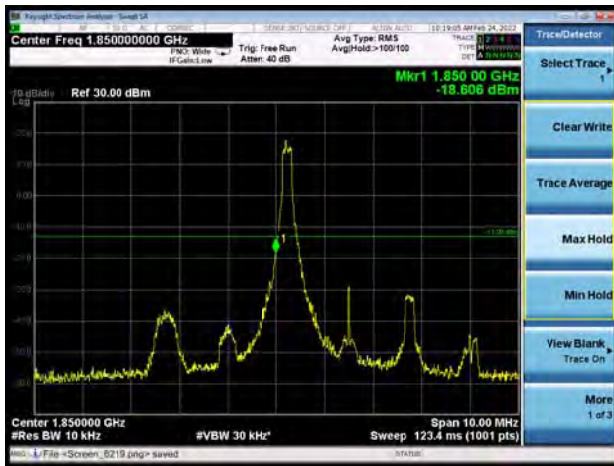
LTE Band 2 1.4MHz 16QAM 100%RB CH-Low



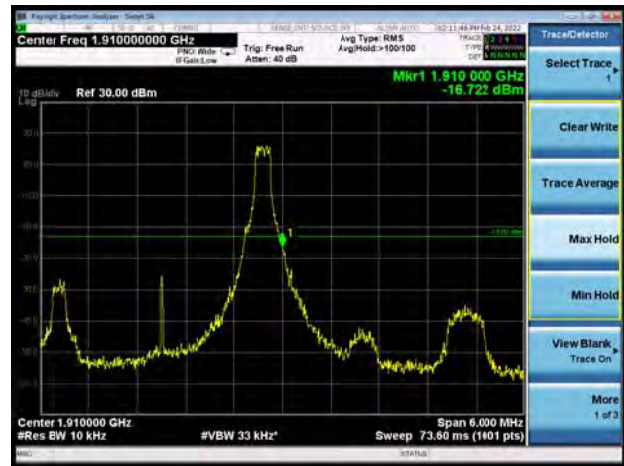
LTE Band 2 1.4MHz 16QAM 100%RB CH-High



LTE Band 2 3MHz 16QAM 1RB CH-Low



LTE Band 2 3MHz 16QAM 1RB CH-High

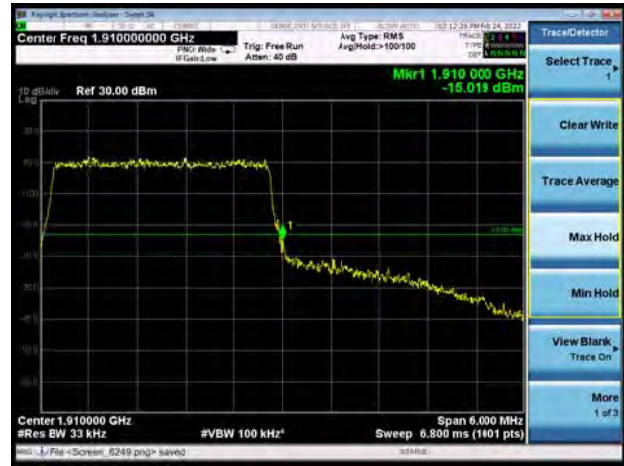




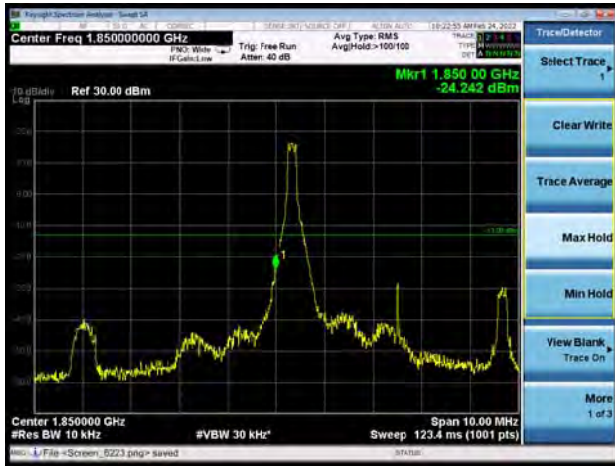
LTE Band 2 3MHz 16QAM 100%RB CH-Low



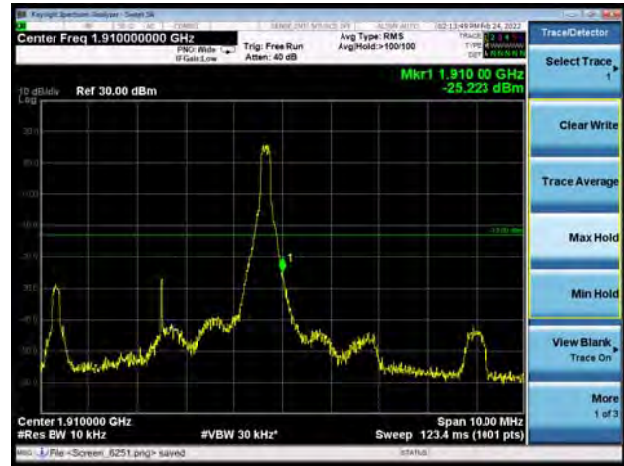
LTE Band 2 3MHz 16QAM 100%RB CH-High



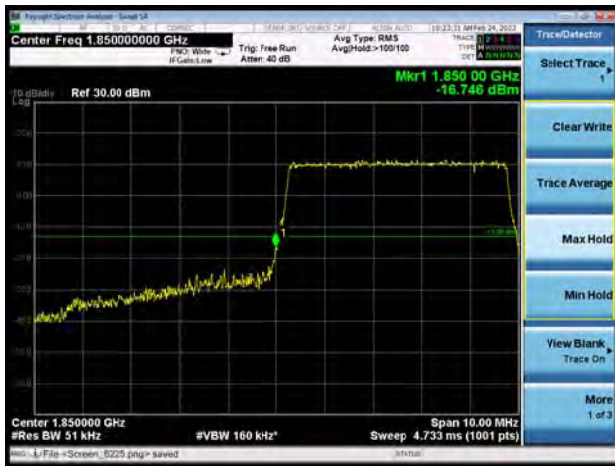
LTE Band 2 5MHz 16QAM 1RB CH-Low



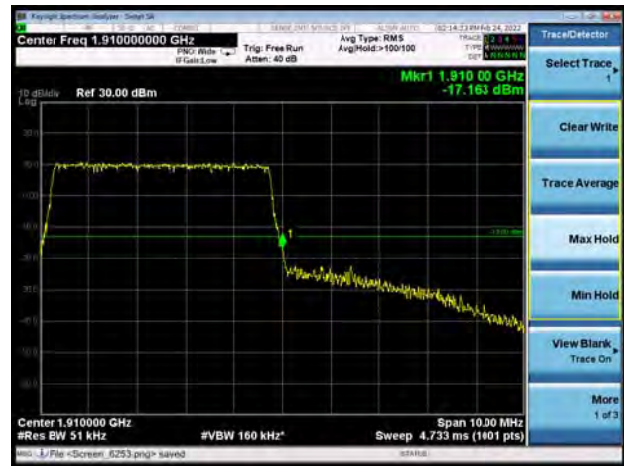
LTE Band 2 5MHz 16QAM 1RB CH-High



LTE Band 2 5MHz 16QAM 100%RB CH-Low



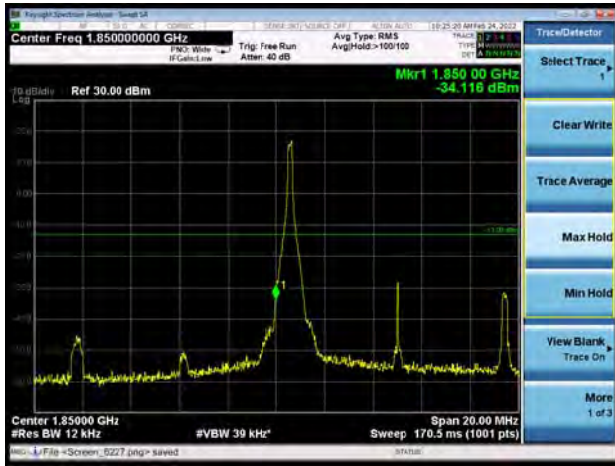
LTE Band 2 5MHz 16QAM 100%RB CH-High



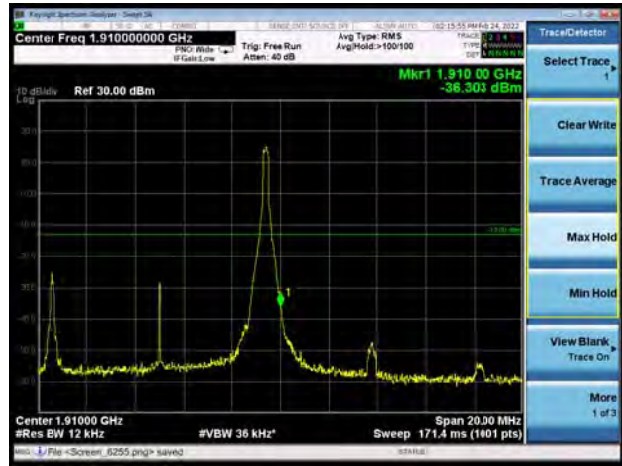




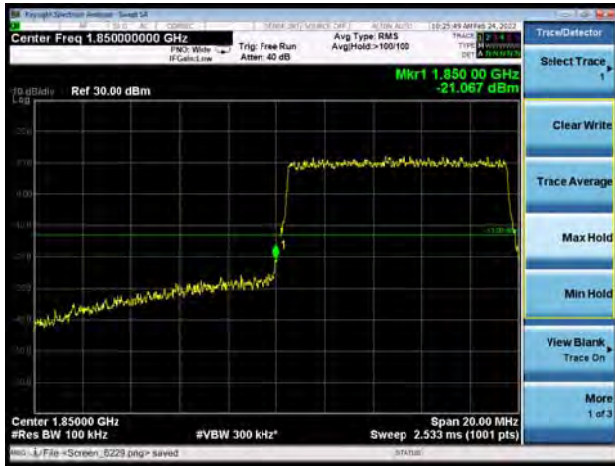
LTE Band 2 10MHz 16QAM 1RB CH-Low



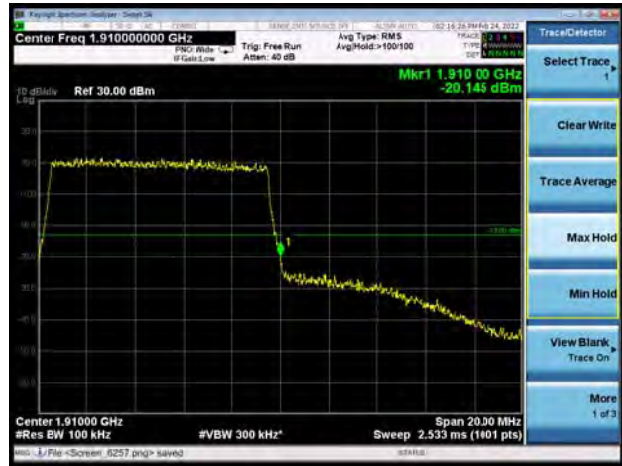
LTE Band 2 10MHz 16QAM 1RB CH-High



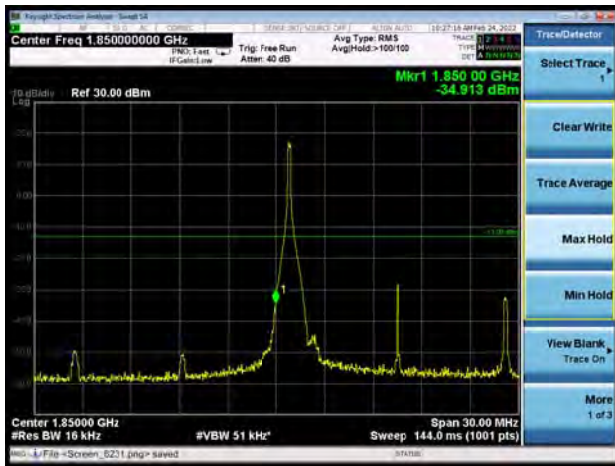
LTE Band 2 10MHz 16QAM 100%RB CH-Low



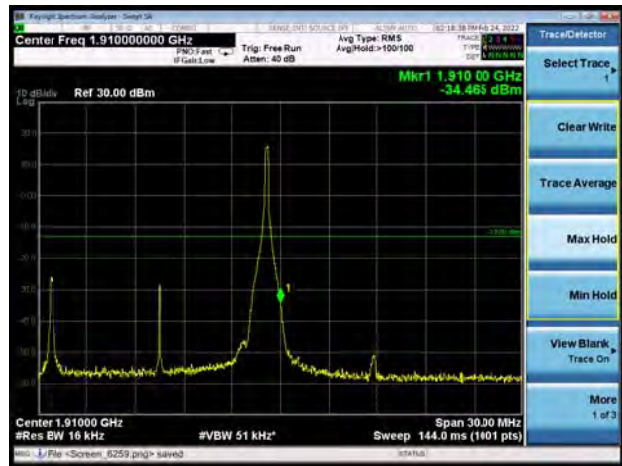
LTE Band 2 10MHz 16QAM 100%RB CH-High



LTE Band 2 15MHz 16QAM 1RB CH-Low



LTE Band 2 15MHz 16QAM 1RB CH-High





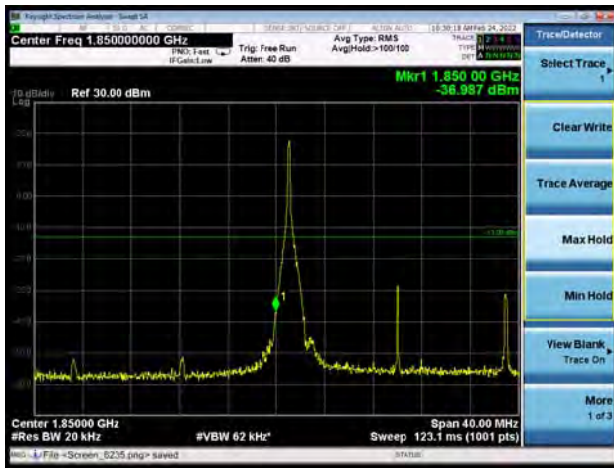
LTE Band 2 15MHz 16QAM 100%RB CH-Low



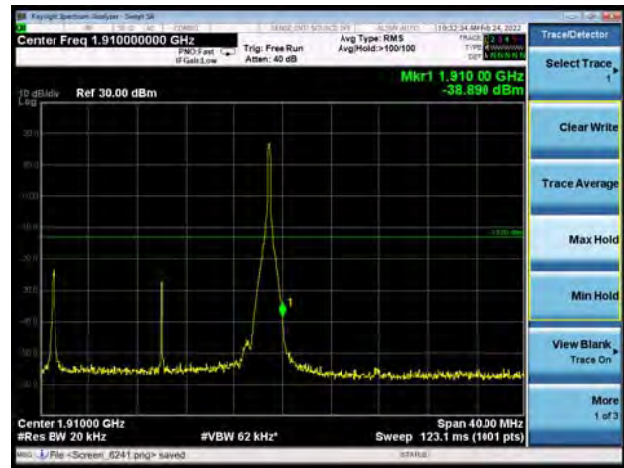
LTE Band 2 15MHz 16QAM 100%RB CH-High



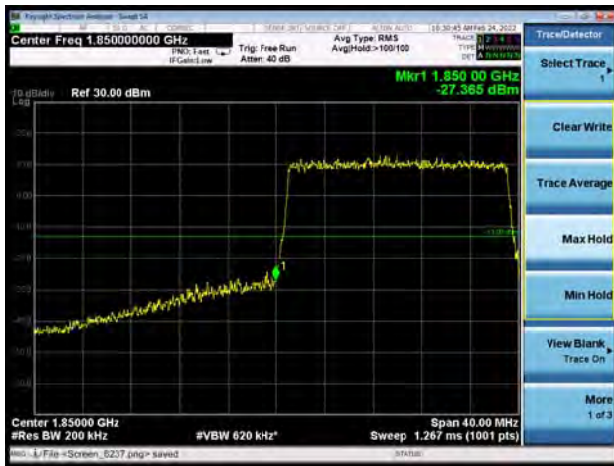
LTE Band 2 20MHz 16QAM 1RB CH-Low



LTE Band 2 20MHz 16QAM 1RB CH-High



LTE Band 2 20MHz 16QAM 100%RB CH-Low



LTE Band 2 20MHz 16QAM 100%RB CH-High





### 6.4. Peak-to-Average Power Ratio (PAPR)

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 1900 (GMSK)	512	1850.2	29.10	26.24	2.86	≤13	PASS
	661	1880	28.98	26.10	2.88	≤13	PASS
	810	1909.8	28.95	26.07	2.88	≤13	PASS
GPRS 1900 (GMSK)	512	1850.2	29.22	26.36	2.86	≤13	PASS
	661	1880	29.12	26.25	2.87	≤13	PASS
	810	1909.8	29.17	26.29	2.88	≤13	PASS
EGPRS 1900 (8PSK)	512	1850.2	27.51	20.95	6.56	≤13	PASS
	661	1880	27.31	21.01	6.30	≤13	PASS
	810	1909.8	27.31	21.26	6.05	≤13	PASS
WCDMA Band II (RMC)	9262	1852.4	24.33	21.47	2.86	≤13	PASS
	9400	1880	24.41	21.47	2.94	≤13	PASS
	9538	1907.6	23.58	20.50	3.08	≤13	PASS

LTE Band 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	18607	1850.7	26.01	21.59	4.42	≤13	PASS
		18900	1880.0	26.55	21.69	4.86	≤13	PASS
		19193	1909.3	25.62	21.69	3.93	≤13	PASS
	3	18615	1851.5	26.15	21.73	4.42	≤13	PASS
		18900	1880	26.59	21.74	4.85	≤13	PASS
		19185	1908.5	25.94	21.85	4.09	≤13	PASS
	5	18625	1852.5	26.18	21.64	4.54	≤13	PASS
		18900	1880	26.66	21.83	4.83	≤13	PASS
		19175	1907.5	26.17	21.85	4.32	≤13	PASS
	10	18650	1855	26.33	21.66	4.67	≤13	PASS
		18900	1880	26.60	21.74	4.86	≤13	PASS
		19150	1905	26.54	21.91	4.63	≤13	PASS
	15	18675	1857.5	26.72	21.55	5.17	≤13	PASS
		18900	1880	26.95	21.69	5.26	≤13	PASS
		19125	1902.5	26.91	21.87	5.04	≤13	PASS
	20	18700	1860	26.61	21.47	5.14	≤13	PASS
		18900	1880	26.84	21.64	5.20	≤13	PASS
		19100	1900	26.82	21.78	5.04	≤13	PASS
16QAM	1.4	18607	1850.7	25.90	20.68	5.22	≤13	PASS



		18900	1880.0	26.54	20.76	5.78	≤13	PASS
		19193	1909.3	25.53	20.62	4.91	≤13	PASS
	3	18615	1851.5	26.06	20.77	5.29	≤13	PASS
		18900	1880	26.51	20.79	5.72	≤13	PASS
		19185	1908.5	25.87	20.84	5.03	≤13	PASS
	5	18625	1852.5	26.00	20.62	5.38	≤13	PASS
		18900	1880	26.44	20.80	5.64	≤13	PASS
		19175	1907.5	26.08	20.87	5.21	≤13	PASS
	10	18650	1855	26.18	20.66	5.52	≤13	PASS
		18900	1880	26.46	20.72	5.74	≤13	PASS
		19150	1905	26.37	20.87	5.50	≤13	PASS
	15	18675	1857.5	26.40	20.56	5.84	≤13	PASS
		18900	1880	26.59	20.69	5.90	≤13	PASS
		19125	1902.5	26.53	20.81	5.72	≤13	PASS
	20	18700	1860	26.44	20.52	5.92	≤13	PASS
		18900	1880	26.65	20.70	5.95	≤13	PASS
		19100	1900	26.55	20.77	5.78	≤13	PASS

## 6.5. Frequency Stability

GSM1900						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal (25°C)	Normal	10.60	13.31	0.00564	0.00708	PASS
Extreme (35°C)		14.90	3.37	0.00793	0.00179	PASS
Extreme (30°C)		1.23	17.84	0.00065	0.00949	PASS
Extreme (20°C)		17.43	16.67	0.00927	0.00887	PASS
Extreme (10°C)		4.51	15.20	0.00240	0.00808	PASS
Extreme (0°C)		5.82	15.92	0.00309	0.00847	PASS
25°C	LV	12.42	13.38	0.00660	0.00712	PASS
	HV	4.27	17.45	0.00227	0.00928	PASS

WCDMA Band II						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	QPSK	BPSK	QPSK	BPSK	
Normal (25°C)	Normal	6.60	17.22	0.00351	0.00916	PASS
Extreme (35°C)		4.14	7.01	0.00220	0.00373	PASS
Extreme (30°C)		2.92	14.37	0.00156	0.00764	PASS
Extreme (20°C)		8.69	9.43	0.00462	0.00502	PASS
Extreme (10°C)		4.18	1.98	0.00222	0.00105	PASS
Extreme (0°C)		13.52	14.06	0.00719	0.00748	PASS
25°C	LV	14.94	3.19	0.00795	0.00170	PASS
	HV	13.86	6.15	0.00737	0.00327	PASS



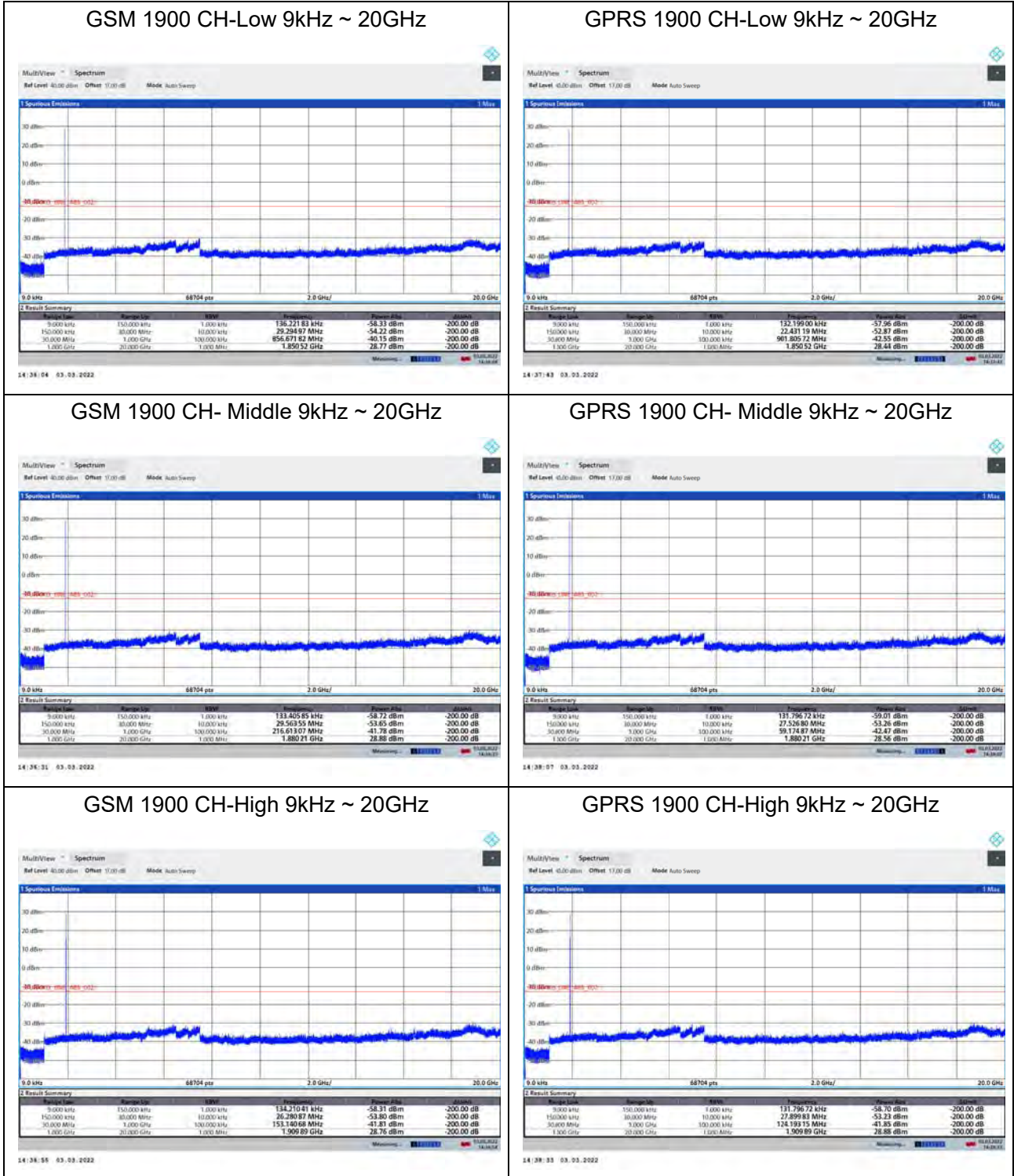
LTE Band 2						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	14.10	7.72	0.00750	0.00411	PASS
Extreme (35°C)		3.98	14.34	0.00211	0.00763	PASS
Extreme (30°C)		10.26	18.00	0.00546	0.00957	PASS
Extreme (20°C)		9.09	14.14	0.00483	0.00752	PASS
Extreme (10°C)		9.34	14.88	0.00497	0.00792	PASS
Extreme (0°C)		17.90	14.90	0.00952	0.00793	PASS
25°C	LV	5.56	11.90	0.00296	0.00633	PASS
	HV	8.86	15.78	0.00471	0.00839	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°C)	Normal	7.06	7.48	0.00376	0.00398	PASS
Extreme (35°C)		5.23	3.70	0.00278	0.00197	PASS
Extreme (30°C)		7.84	3.61	0.00417	0.00192	PASS
Extreme (20°C)		8.02	8.48	0.00426	0.00451	PASS
Extreme (10°C)		15.39	1.62	0.00819	0.00086	PASS
Extreme (0°C)		13.16	6.04	0.00700	0.00321	PASS
25°C	LV	4.92	8.66	0.00262	0.00460	PASS
	HV	16.69	7.95	0.00888	0.00423	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°C)	Normal	6.63	17.59	0.00353	0.00936	PASS
Extreme (35°C)		3.33	12.79	0.00177	0.00680	PASS
Extreme (30°C)		15.67	16.45	0.00833	0.00875	PASS
Extreme (20°C)		7.88	17.43	0.00419	0.00927	PASS
Extreme (10°C)		8.28	10.74	0.00440	0.00571	PASS
Extreme (0°C)		1.09	9.07	0.00058	0.00482	PASS
25°C	LV	16.30	15.83	0.00867	0.00842	PASS
	HV	12.22	1.37	0.00650	0.00073	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°C)	Normal	5.56	13.85	0.00296	0.00736	PASS
Extreme (35°C)		11.17	7.28	0.00594	0.00387	PASS



Extreme (30°C)		13.75	2.79	0.00731	0.00148	PASS
Extreme (20°C)		16.63	7.80	0.00885	0.00415	PASS
Extreme (10°C)		2.56	14.04	0.00136	0.00747	PASS
Extreme (0°C)		4.42	7.28	0.00235	0.00387	PASS
25°C	LV	1.41	7.88	0.00075	0.00419	PASS
	HV	16.38	7.49	0.00871	0.00398	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°C)	Normal	13.55	4.27	0.00721	0.00227	
Extreme (35°C)		16.41	5.12	0.00873	0.00272	PASS
Extreme (30°C)		8.46	16.90	0.00450	0.00899	PASS
Extreme (20°C)		11.45	9.45	0.00609	0.00502	PASS
Extreme (10°C)		13.61	6.53	0.00724	0.00347	PASS
Extreme (0°C)		8.82	6.32	0.00469	0.00336	PASS
25°C	LV	9.85	13.05	0.00524	0.00694	PASS
	HV	17.10	17.66	0.00910	0.00940	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°C)	Normal	11.82	8.79	0.00629	0.00468	
Extreme (35°C)		15.52	13.86	0.00825	0.00737	PASS
Extreme (30°C)		10.44	6.62	0.00555	0.00352	PASS
Extreme (20°C)		16.69	14.85	0.00888	0.00790	PASS
Extreme (10°C)		7.69	2.13	0.00409	0.00113	PASS
Extreme (0°C)		12.65	15.69	0.00673	0.00835	PASS
25°C	LV	16.32	15.73	0.00868	0.00837	PASS
	HV	4.80	12.52	0.00255	0.00666	PASS

### 6.6. Spurious Emissions at Antenna Terminals

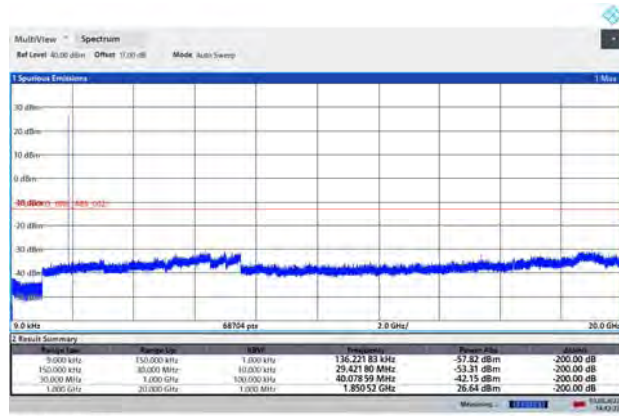
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported. The signal beyond the limit is carrier.







### EGPRS 1900 CH-Low 9kHz ~ 20GHz



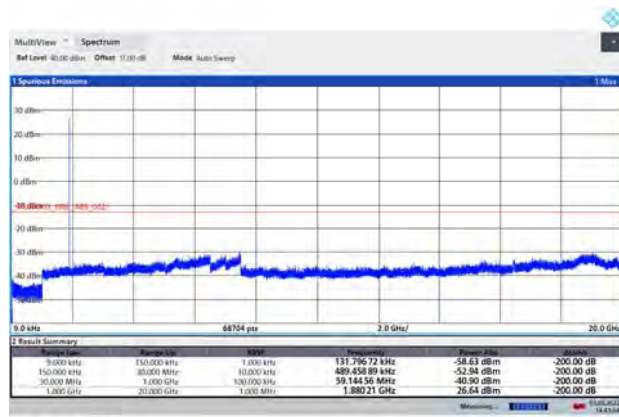
14:42:22 03.03.2022

### WCDMA BAND II CH-Low 9kHz ~ 20GHz



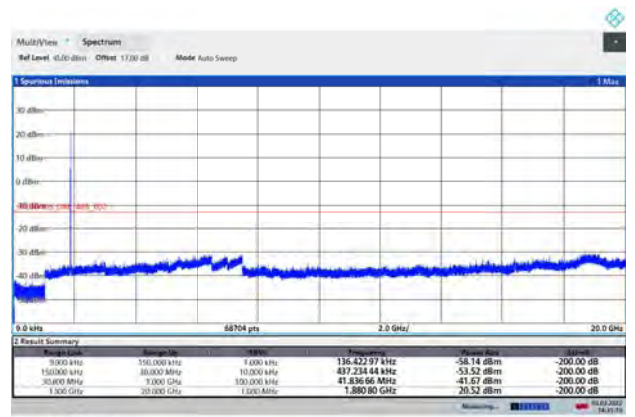
14:38:37 03.03.2022

### EGPRS 1900 CH- Middle 9kHz ~ 20GHz



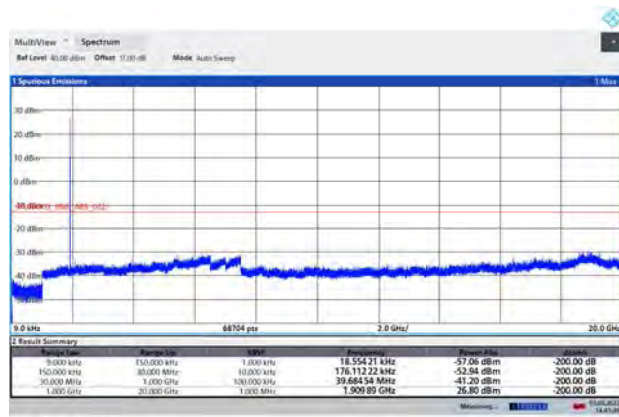
14:41:55 03.03.2022

### WCDMA BAND II CH- Middle 9kHz ~ 20GHz



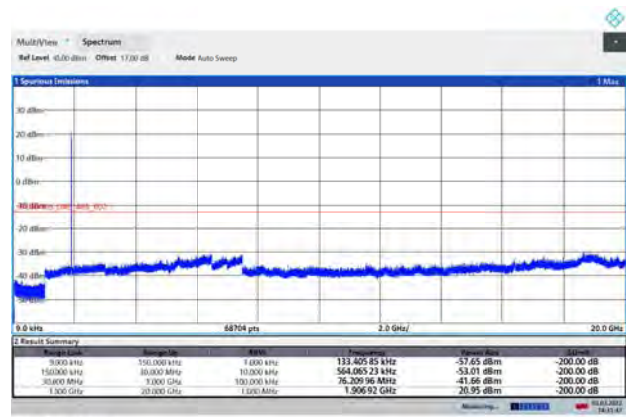
14:38:10 03.03.2022

### EGPRS 1900 CH-High 9kHz ~ 20GHz



14:41:27 03.03.2022

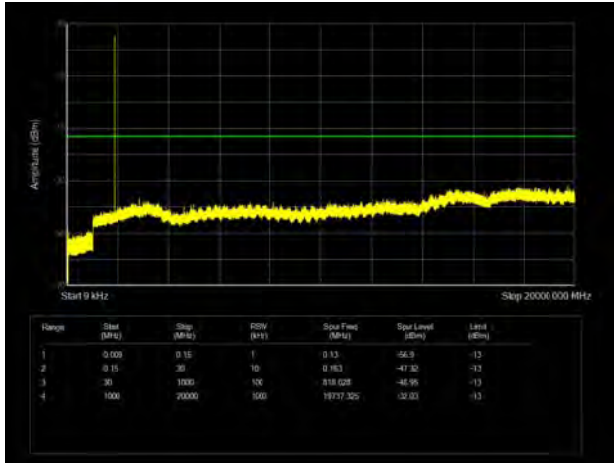
### WCDMA BAND II CH-High 9kHz ~ 20GHz



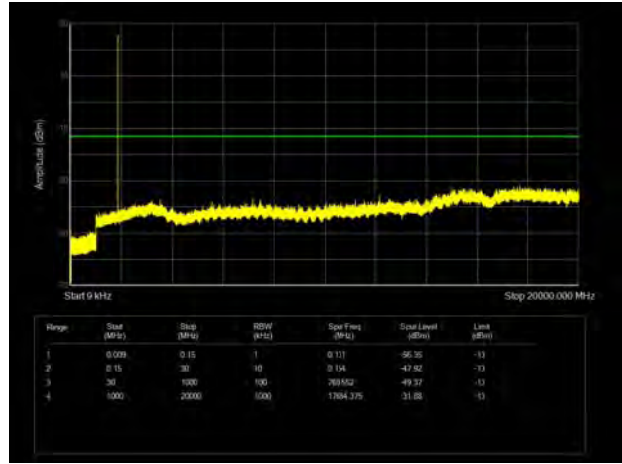
14:35:47 03.03.2022



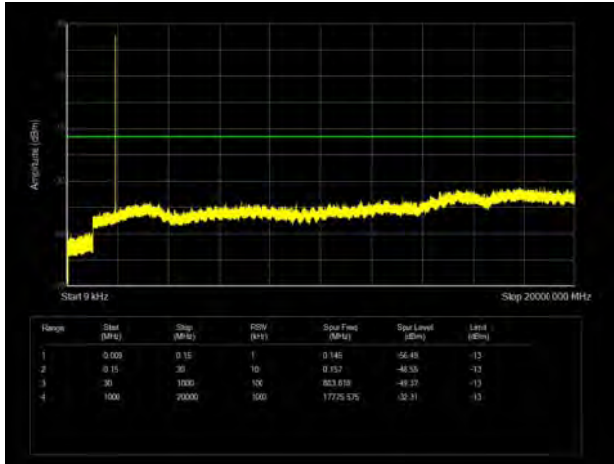
LTE Band 2 1.4MHz CH-Low 9kHz~20GHz



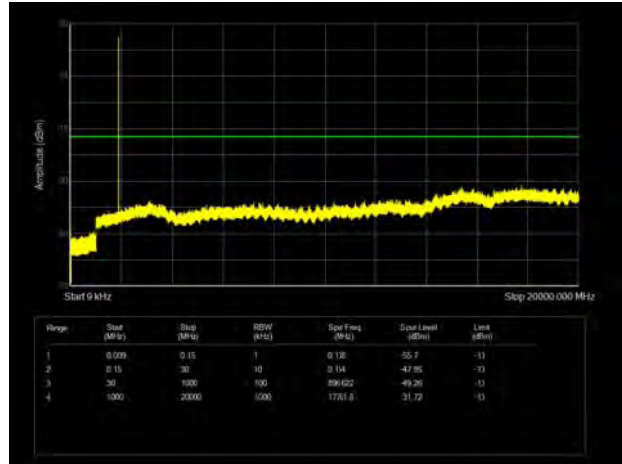
LTE Band 2 3MHz CH-Low 9kHz~20GHz



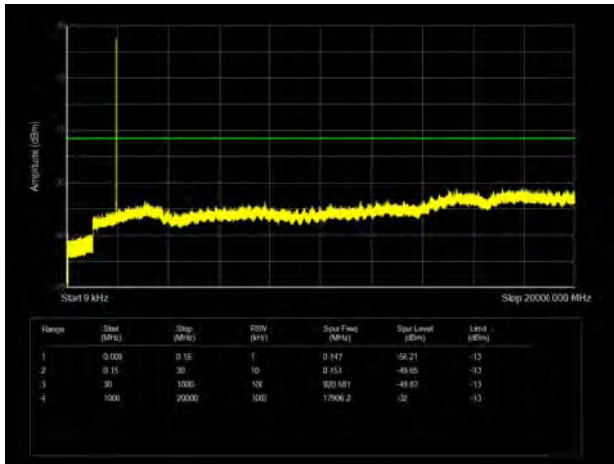
LTE Band 2 1.4MHz CH-Middle 9kHz~20GHz



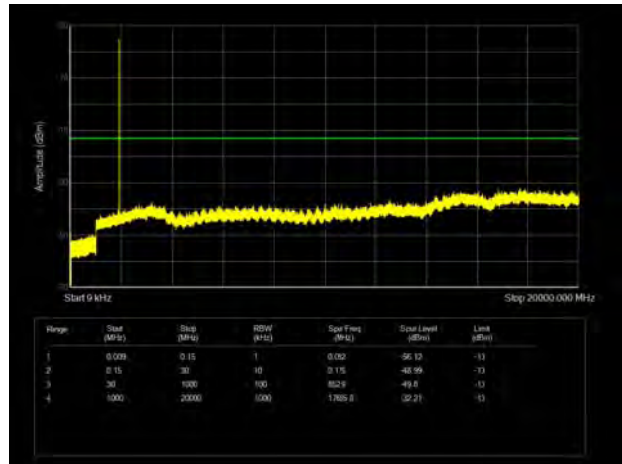
LTE Band 2 3MHz CH-Middle 9kHz~20GHz



LTE Band 2 1.4MHz CH-High 9kHz~20GHz

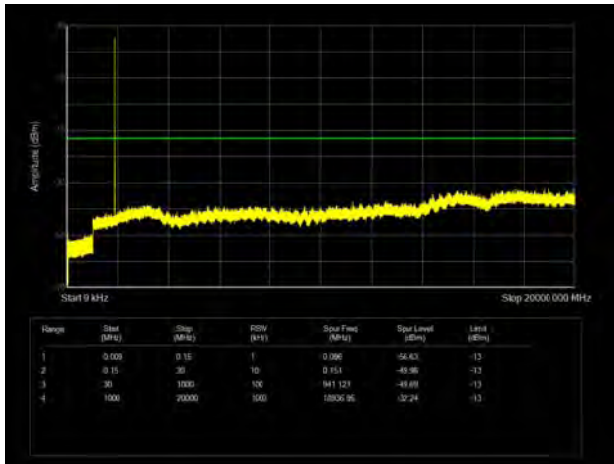


LTE Band 2 3MHz CH-High 9kHz~20GHz

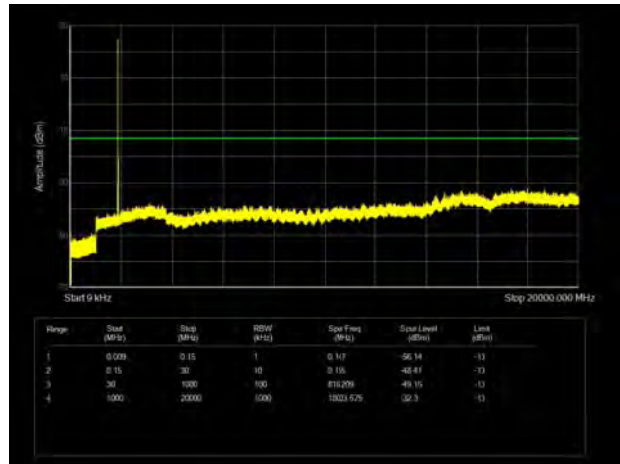




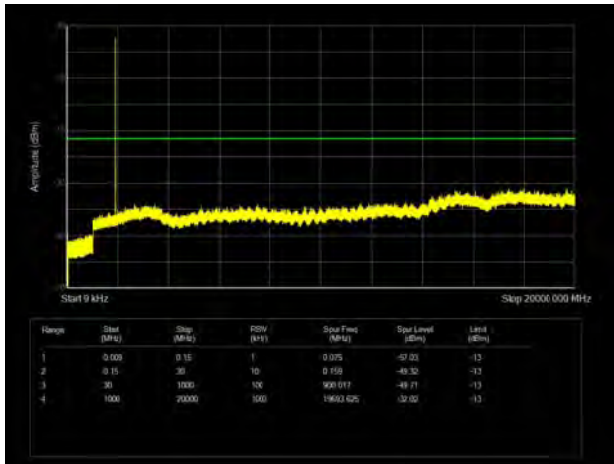
LTE Band 2 5MHz CH-Low 9kHz~20GHz



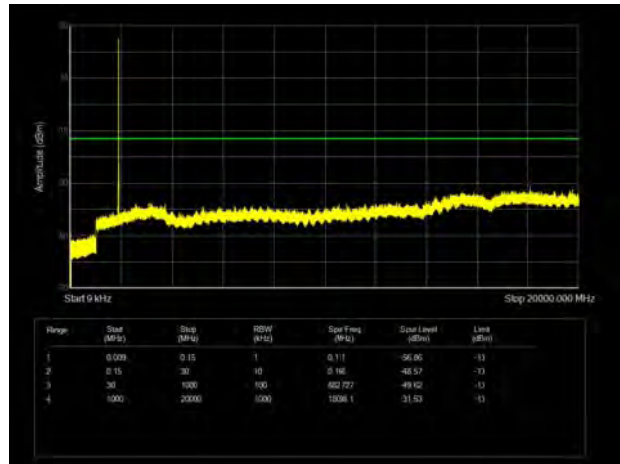
LTE Band 2 10MHz CH-Low 9kHz~20GHz



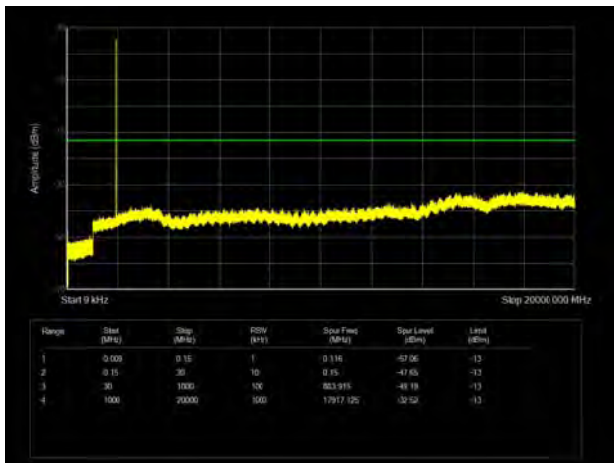
LTE Band 2 5MHz CH-Middle 9kHz~20GHz



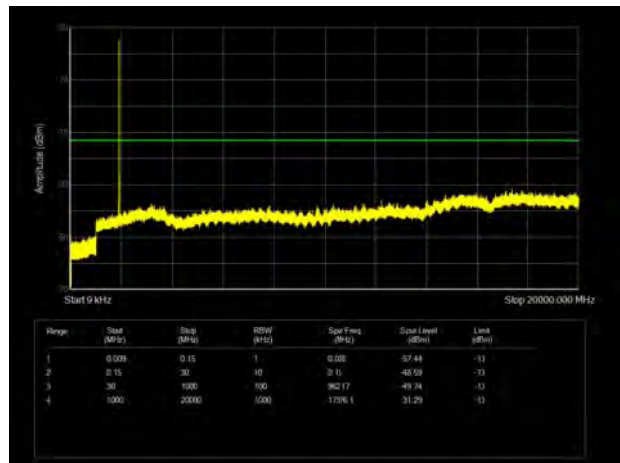
LTE Band 2 10MHz CH-Middle 9kHz~20GHz



LTE Band 2 5MHz CH-High 9kHz~20GHz

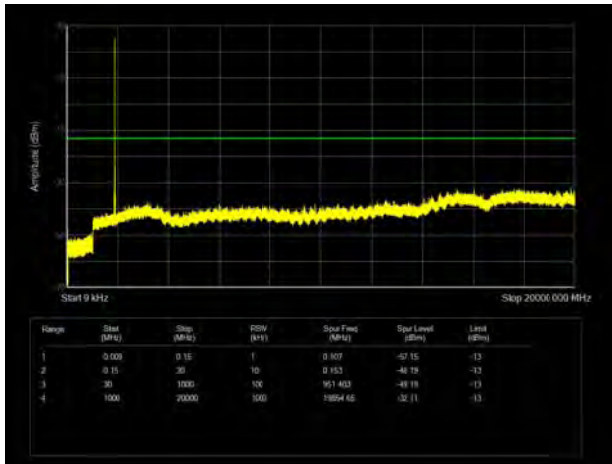


LTE Band 2 10MHz CH-High 9kHz~20GHz

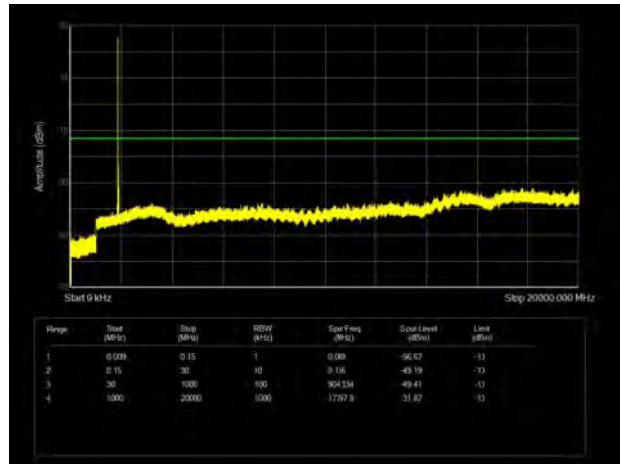




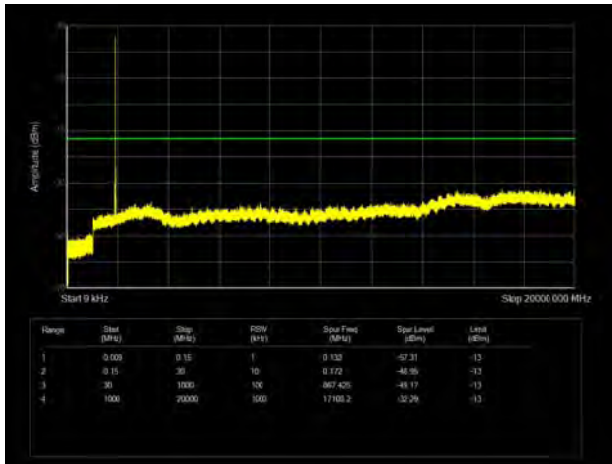
LTE Band 2 15MHz CH-Low 9kHz~20GHz



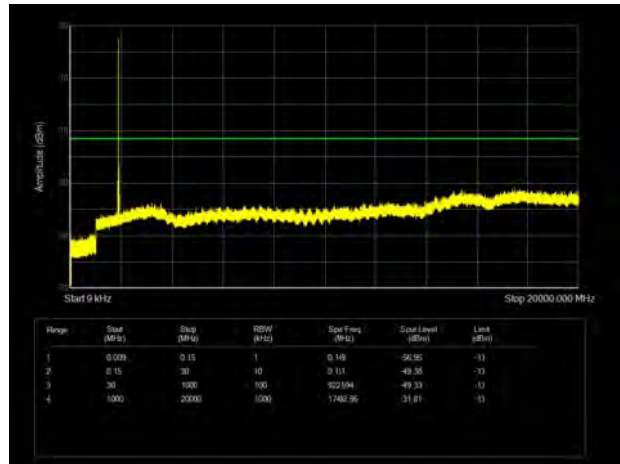
LTE Band 2 20MHz CH-Low 9kHz~20GHz



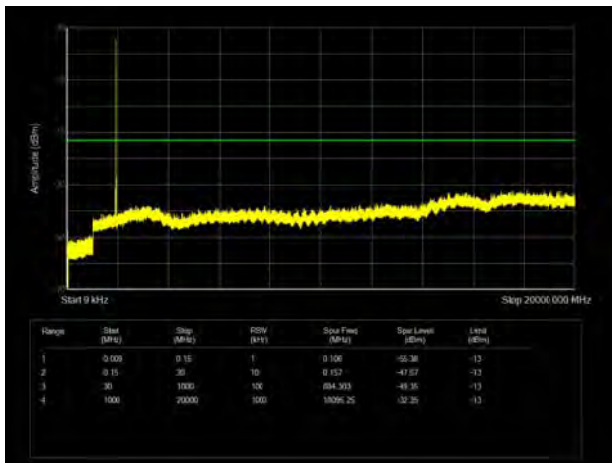
LTE Band 2 15MHz CH-Middle 9kHz~20GHz



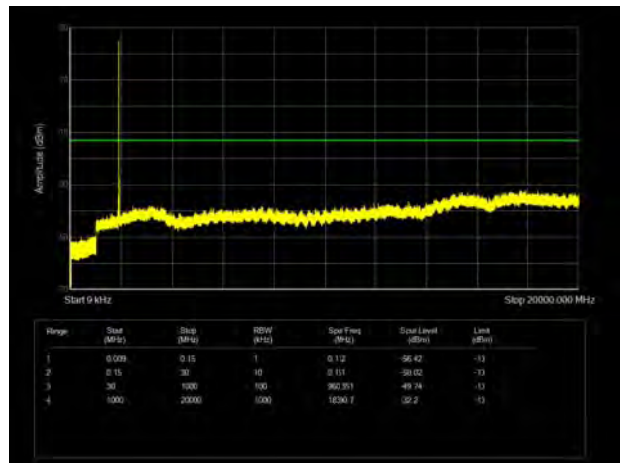
LTE Band 2 20MHz CH-Middle 9kHz~20GHz



LTE Band 2 15MHz CH-High 9kHz~20GHz



LTE Band 2 20MHz CH-High 9kHz~20GHz



### 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.

#### Main Antenna

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-60.47	2.60	12.50	Horizontal	-50.57	-13.00	37.57	180
3	5640.00	-65.10	3.30	12.50	Horizontal	-55.90	-13.00	42.90	45
4	7520.00	-57.00	4.20	12.20	Horizontal	-49.00	-13.00	36.00	225
5	9400.00	-52.00	4.30	11.10	Horizontal	-45.20	-13.00	32.20	90
6	11280.00	-48.36	5.90	11.90	Horizontal	-42.36	-13.00	29.36	45
7	13160.00	-53.89	5.70	14.00	Horizontal	-45.59	-13.00	32.59	90
8	15040.00	-51.91	5.80	13.10	Horizontal	-44.61	-13.00	31.61	135
9	16920.00	-50.15	6.10	14.60	Horizontal	-41.65	-13.00	28.65	270
10	18800.00	--	--	--	--	--	--	--	--

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.

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-66.15	2.60	12.50	Horizontal	-56.25	-13.00	43.25	90
3	5640.00	-65.01	3.30	12.50	Horizontal	-55.81	-13.00	42.81	0
4	7520.00	-57.88	4.20	12.20	Horizontal	-49.88	-13.00	36.88	225
5	9400.00	-53.85	4.30	11.10	Horizontal	-47.05	-13.00	34.05	90
6	11280.00	-48.71	5.90	11.90	Horizontal	-42.71	-13.00	29.71	45
7	13160.00	-52.90	5.70	14.00	Horizontal	-44.60	-13.00	31.60	270
8	15040.00	-51.75	5.80	13.10	Horizontal	-44.45	-13.00	31.45	315
9	16920.00	-50.13	6.10	14.60	Horizontal	-41.63	-13.00	28.63	180
10	18800.00	--	--	--	--	--	--	--	--

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 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-63.69	2.60	12.50	Horizontal	-53.79	-13.00	40.79	90
3	5638.88	-65.61	3.30	12.50	Horizontal	-56.41	-13.00	43.41	45
4	7520.00	-58.55	4.20	12.20	Horizontal	-50.55	-13.00	37.55	225
5	9400.00	-53.75	4.30	11.10	Horizontal	-46.95	-13.00	33.95	90
6	11280.00	-49.60	5.90	11.90	Horizontal	-43.60	-13.00	30.60	0
7	13160.00	-53.27	5.70	14.00	Horizontal	-44.97	-13.00	31.97	45
8	15040.00	-52.01	5.80	13.10	Horizontal	-44.71	-13.00	31.71	315
9	16920.00	-50.52	6.10	14.60	Horizontal	-42.02	-13.00	29.02	180
10	18800.00	--	--	--	--	--	--	--	--

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.

## TE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.50	-62.76	2.60	12.50	Horizontal	-52.86	-13.00	39.86	270
3	5633.63	-65.14	3.30	12.50	Horizontal	-55.94	-13.00	42.94	45
4	7520.00	-57.90	4.20	12.20	Horizontal	-49.90	-13.00	36.90	270
5	9400.00	-54.06	4.30	11.10	Horizontal	-47.26	-13.00	34.26	225
6	11280.00	-50.14	5.90	11.90	Horizontal	-44.14	-13.00	31.14	45
7	13160.00	-53.37	5.70	14.00	Horizontal	-45.07	-13.00	32.07	90
8	15040.00	-52.22	5.80	13.10	Horizontal	-44.92	-13.00	31.92	315
9	16920.00	-49.52	6.10	14.60	Horizontal	-41.02	-13.00	28.02	180
10	18800.00	--	--	--	--	--	--	--	--

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 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.13	-63.32	2.60	12.50	Horizontal	-53.42	-13.00	40.42	0
3	5613.38	-64.92	3.30	12.50	Horizontal	-55.72	-13.00	42.72	90
4	7484.63	-57.71	4.20	12.20	Horizontal	-49.71	-13.00	36.71	45
5	9400.00	-52.58	4.30	11.10	Horizontal	-45.78	-13.00	32.78	225
6	11280.00	-49.47	5.90	11.90	Horizontal	-43.47	-13.00	30.47	90
7	13160.00	-52.79	5.70	14.00	Horizontal	-44.49	-13.00	31.49	45
8	15040.00	-52.19	5.80	13.10	Horizontal	-44.89	-13.00	31.89	90
9	16920.00	-50.30	6.10	14.60	Horizontal	-41.80	-13.00	28.80	270
10	18800.00	--	--	--	--	--	--	--	--

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.

**Second Antenna**

## GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-65.32	2.60	12.50	Horizontal	-55.42	-13.00	42.42	0
3	5640.00	-66.55	3.30	12.50	Horizontal	-57.35	-13.00	44.35	225
4	7520.00	-57.85	4.20	12.20	Horizontal	-49.85	-13.00	36.85	135
5	9400.00	-54.07	4.30	11.10	Horizontal	-47.27	-13.00	34.27	45
6	11280.00	-50.02	5.90	11.90	Horizontal	-44.02	-13.00	31.02	315
7	13160.00	-53.67	5.70	14.00	Horizontal	-45.37	-13.00	32.37	225
8	15040.00	-52.34	5.80	13.10	Horizontal	-45.04	-13.00	32.04	180
9	16920.00	-51.66	6.10	14.60	Horizontal	-43.16	-13.00	30.16	135
10	18800.00	--	--	--	--	--	--	--	--

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.



## WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-66.81	2.60	12.50	Horizontal	-56.91	-13.00	43.91	315
3	5640.00	-66.86	3.30	12.50	Horizontal	-57.66	-13.00	44.66	225
4	7520.00	-58.96	4.20	12.20	Horizontal	-50.96	-13.00	37.96	45
5	9400.00	-54.04	4.30	11.10	Horizontal	-47.24	-13.00	34.24	180
6	11280.00	-50.60	5.90	11.90	Horizontal	-44.60	-13.00	31.60	0
7	13160.00	-53.99	5.70	14.00	Horizontal	-45.69	-13.00	32.69	225
8	15040.00	-53.52	5.80	13.10	Horizontal	-46.22	-13.00	33.22	135
9	16920.00	-52.24	6.10	14.60	Horizontal	-43.74	-13.00	30.74	45
10	18800.00	--	--	--	--	--	--	--	--

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 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3758.60	-66.98	2.60	12.50	Vertical	-57.08	-13.00	44.08	45
3	5637.90	-66.16	3.30	12.50	Vertical	-56.96	-13.00	43.96	135
4	7517.20	-60.51	4.20	12.20	Vertical	-52.51	-13.00	39.51	0
5	9396.50	-54.37	4.30	11.10	Vertical	-47.57	-13.00	34.57	270
6	11275.80	-51.78	5.90	11.90	Vertical	-45.78	-13.00	32.78	315
7	13155.10	-54.25	5.70	14.00	Vertical	-45.95	-13.00	32.95	225
8	15034.40	-53.04	5.80	13.10	Vertical	-45.74	-13.00	32.74	90
9	16913.70	-51.51	6.10	14.60	Vertical	-43.01	-13.00	30.01	135
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical position.





## TE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.50	-66.49	2.60	12.50	Vertical	-56.59	-13.00	43.59	45
3	5633.63	-65.87	3.30	12.50	Vertical	-56.67	-13.00	43.67	225
4	7520.00	-60.07	4.20	12.20	Vertical	-52.07	-13.00	39.07	0
5	9400.00	-54.23	4.30	11.10	Vertical	-47.43	-13.00	34.43	90
6	11280.00	-51.75	5.90	11.90	Vertical	-45.75	-13.00	32.75	180
7	13160.00	-54.69	5.70	14.00	Vertical	-46.39	-13.00	33.39	315
8	15040.00	-53.91	5.80	13.10	Vertical	-46.61	-13.00	33.61	135
9	16920.00	-51.81	6.10	14.60	Vertical	-43.31	-13.00	30.31	225
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical position.

## LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3740.00	-67.43	2.60	12.50	Vertical	-57.53	-13.00	44.53	45
3	5610.00	-66.21	3.30	12.50	Vertical	-57.01	-13.00	44.01	0
4	7480.00	-59.42	4.20	12.20	Vertical	-51.42	-13.00	38.42	315
5	9350.00	-53.45	4.30	11.10	Vertical	-46.65	-13.00	33.65	135
6	11220.00	-53.15	5.90	11.90	Vertical	-47.15	-13.00	34.15	90
7	13090.00	-53.29	5.70	14.00	Vertical	-44.99	-13.00	31.99	270
8	14960.00	-51.66	5.80	13.10	Vertical	-44.36	-13.00	31.36	180
9	16830.00	-50.35	6.10	14.60	Vertical	-41.85	-13.00	28.85	45
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical position.



## 7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	Weiss	VT4002	58226119450 010	2021-05-15	2022-05-14
Base Station Simulator	R&S	CMW500	150415	2021-05-15	2022-05-14
Spectrum Analyzer	Keysight	N9020A	MY52330084	2021-05-15	2022-05-14
Universal Radio Communication Tester	Agilent	E5515C	GB44400275	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV30	104028	2021-05-15	2022-05-14
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 is submitted separately.**



## **ANNEX B: Test Setup Photos**

The Test Setup Photos is submitted separately.