



RF TEST REPORT

Applicant Honor Device Co., Ltd.
FCC ID 2AYGCANY-LX3
Product Smart Phone
Model ANY-LX3
Report No. R2202A0171-R4V1
Issue Date 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 90S (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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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	March 18, 2022
Rev.1	Added adapter information in Page 7.	March 18, 2022

Note: This revised report (Report No. R2202A0171-R4V1) supersedes and replaces the previously issued report (Report No. R2202A0171-R4). Please discard or destroy the previously issued report and dispose of it accordingly.



Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046/90.635(b)	PASS
2	Occupied Bandwidth	2.1049/ 90.209	PASS
3	Emission Masks	2.1051 / 90.691	PASS
4	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 90.213	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 90.691	PASS
7	Radiates Spurious Emission	2.1053 /90.691	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 electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission 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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Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant 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
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	AJDR012126000081		
Hardware Version	HL2ANYM		
Software Version	4.2.0.19(SP01 C900E11R1P1)		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Main Antenna	Second Antenna	
	-2.2 dBi	/	
Test Mode(s)	LTE Band 26;		
Test Modulation	QPSK, 16QAM		
LTE Category	4		
Maximum E.R.P.	LTE Band 26	20.79dBm	
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)
	LTE Band 26	814 ~ 824	859 ~ 869
EUT Accessory			
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.	3



		(Manufacturer: Astec)	
	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 1) 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 90S (2021)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2021)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

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 (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.

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

Test modes are chosen as the worst case configuration below for LTE Band 26

Test items	Bandwidth (MHz)				Modulation		RB			Test Channel		
	1.4	3	5	10	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Radiated Power	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	O	O	O	O	O	O	-	-	O	O	O	O
Emission Mask	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
Frequency Stability	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	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 Radiated Power

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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.

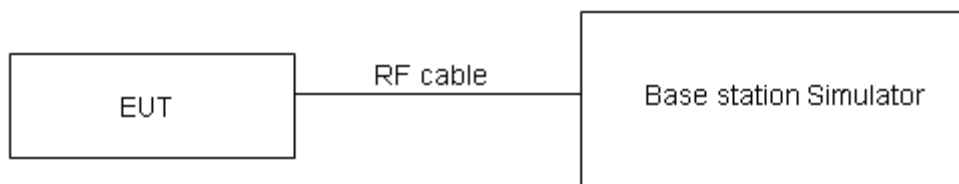
ERP can then be calculated as follows:

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

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

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

Test Setup



Limits

Part 90.635 (b) the maximum output power of the transmitter for mobile stations is 100 watts.

Rule Part 90.635(b) specifies that “The maximum output power of the transmitter for mobile stations is 100 watts”.

Limit	≤ 100 W (50 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 dB for RF power output, k = 2, U= 1.19 dB for ERP.

Test Results

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

5.2. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 30 kHz, VBW is set to 91 kHz for LTE Band 26 (1.4MHz),

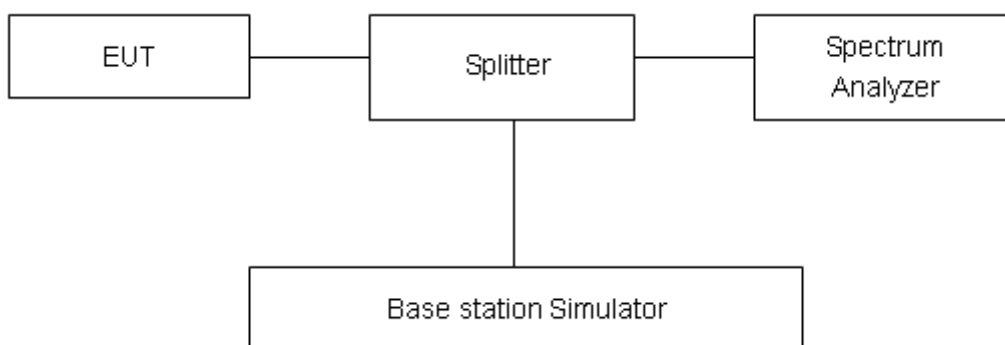
RBW is set to 62 kHz, VBW is set to 180 kHz for LTE Band 26 (3MHz).

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 26 (5MHz).

RBW is set to 200 kHz, VBW is set to 620kHz for LTE Band 26 (10MHz). .

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.

Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

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. Emission Mask

Ambient condition

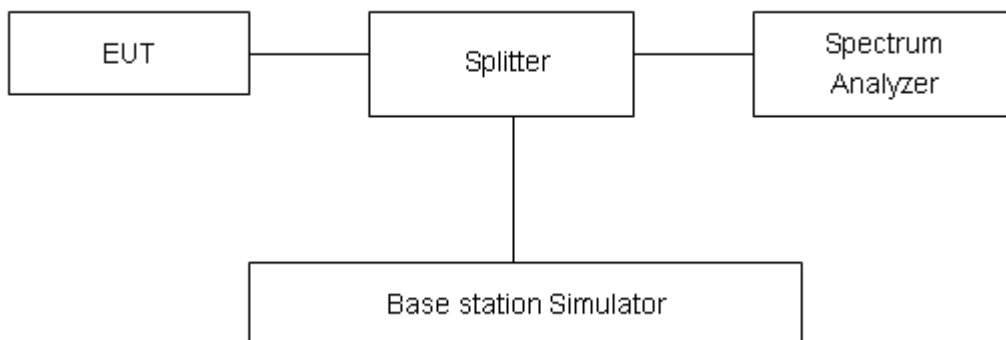
Temperature	Relative humidity
21°C ~25°C	40%~60%

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. For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 90.691(a) specifies that “ For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.”

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

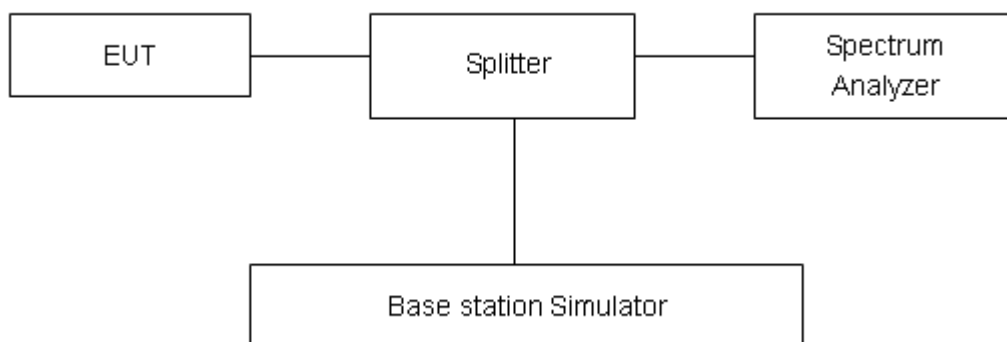
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

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

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

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
21°C ~25°C	40%~60%

Method of Measurement

1. 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.

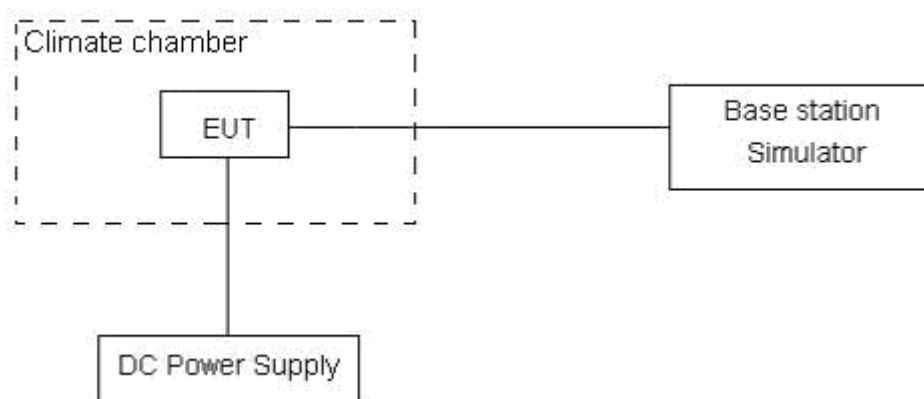
2. Frequency Stability (Voltage Variation)

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

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Minimum Frequency Stability

[Parts per million (ppm)]

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
814 ~ 824	1.5	2.5	2.5

Measurement Uncertainty

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

Test Results

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

5.6. Spurious Emissions at Antenna Terminals

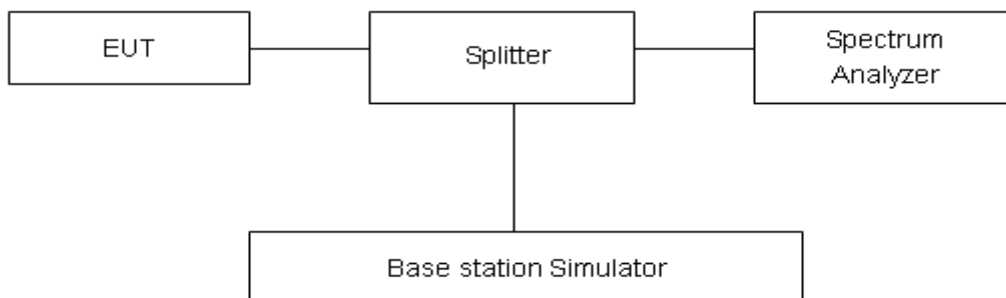
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

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 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, 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) Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

Limit	-13 dBm
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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-12.75GHz	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
21°C ~25°C	40%~60%

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=100kHz,VBW=300kHz, 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:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

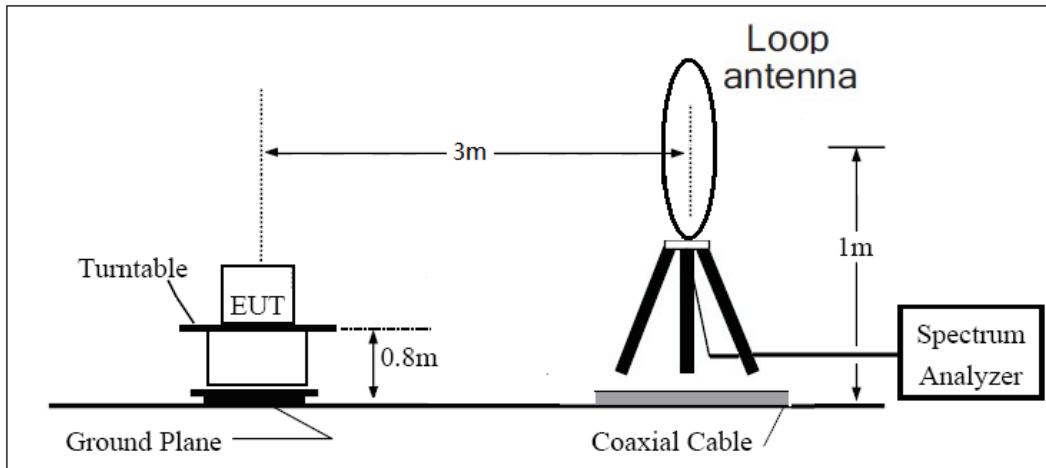
The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the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

= EIRP-2.15dBi.

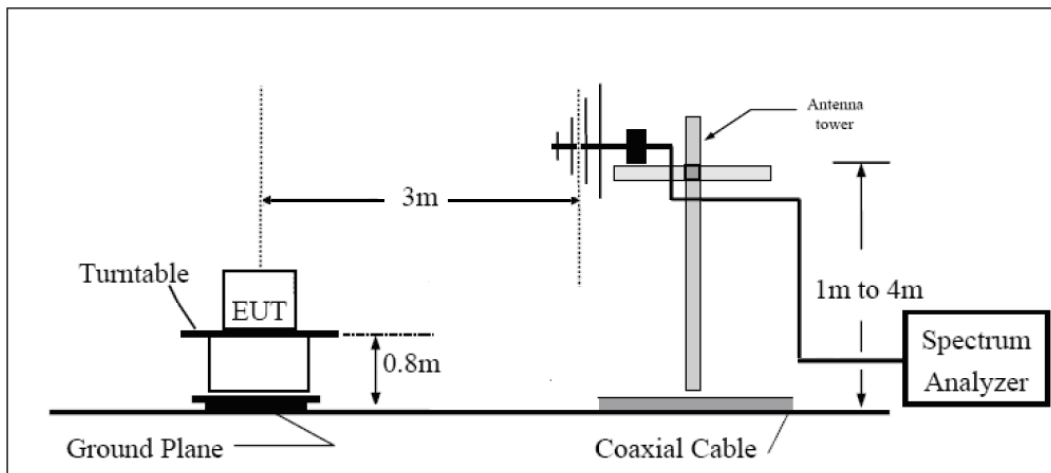
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

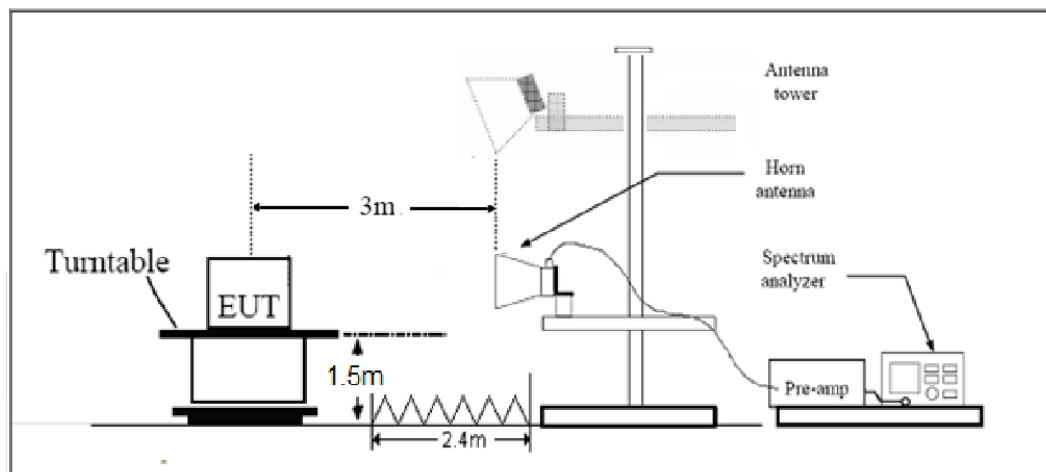
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz





Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.”

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 Radiated Power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP(dBm)
LTE Band26	1.4	26697	1	#0	QPSK	24.71	20.36
LTE Band26	1.4	26697	1	#Mid	QPSK	24.83	20.48
LTE Band26	1.4	26697	1	#Max	QPSK	24.75	20.40
LTE Band26	1.4	26697	3	#0	QPSK	24.76	20.41
LTE Band26	1.4	26697	3	#Mid	QPSK	24.64	20.29
LTE Band26	1.4	26697	3	#Max	QPSK	24.58	20.23
LTE Band26	1.4	26697	6	#0	QPSK	23.64	19.29
LTE Band26	1.4	26697	1	#0	QAM16	23.62	19.27
LTE Band26	1.4	26697	1	#Mid	QAM16	23.72	19.37
LTE Band26	1.4	26697	1	#Max	QAM16	23.66	19.31
LTE Band26	1.4	26697	3	#0	QAM16	23.83	19.48
LTE Band26	1.4	26697	3	#Mid	QAM16	23.85	19.50
LTE Band26	1.4	26697	3	#Max	QAM16	23.91	19.56
LTE Band26	1.4	26697	6	#0	QAM16	22.72	18.37
LTE Band26	1.4	26740	1	#0	QPSK	24.62	20.27
LTE Band26	1.4	26740	1	#Mid	QPSK	24.74	20.39
LTE Band26	1.4	26740	1	#Max	QPSK	24.66	20.31
LTE Band26	1.4	26740	3	#0	QPSK	24.72	20.37
LTE Band26	1.4	26740	3	#Mid	QPSK	24.75	20.40
LTE Band26	1.4	26740	3	#Max	QPSK	24.74	20.39
LTE Band26	1.4	26740	6	#0	QPSK	23.91	19.56
LTE Band26	1.4	26740	1	#0	QAM16	23.77	19.42
LTE Band26	1.4	26740	1	#Mid	QAM16	23.97	19.62
LTE Band26	1.4	26740	1	#Max	QAM16	23.82	19.47
LTE Band26	1.4	26740	3	#0	QAM16	23.67	19.32
LTE Band26	1.4	26740	3	#Mid	QAM16	23.72	19.37
LTE Band26	1.4	26740	3	#Max	QAM16	23.68	19.33
LTE Band26	1.4	26740	6	#0	QAM16	22.68	18.33
LTE Band26	1.4	26783	1	#0	QPSK	25.01	20.66
LTE Band26	1.4	26783	1	#Mid	QPSK	25.04	20.69
LTE Band26	1.4	26783	1	#Max	QPSK	24.99	20.64
LTE Band26	1.4	26783	3	#0	QPSK	24.94	20.59
LTE Band26	1.4	26783	3	#Mid	QPSK	24.92	20.57
LTE Band26	1.4	26783	3	#Max	QPSK	24.91	20.56
LTE Band26	1.4	26783	6	#0	QPSK	23.95	19.60
LTE Band26	1.4	26783	1	#0	QAM16	23.81	19.46
LTE Band26	1.4	26783	1	#Mid	QAM16	23.78	19.43



LTE Band26	1.4	26783	1	#Max	QAM16	23.93	19.58
LTE Band26	1.4	26783	3	#0	QAM16	23.93	19.58
LTE Band26	1.4	26783	3	#Mid	QAM16	23.90	19.55
LTE Band26	1.4	26783	3	#Max	QAM16	23.92	19.57
LTE Band26	1.4	26783	6	#0	QAM16	22.94	18.59
LTE Band26	3	26705	1	#0	QPSK	24.63	20.28
LTE Band26	3	26705	1	#Mid	QPSK	24.62	20.27
LTE Band26	3	26705	1	#Max	QPSK	24.64	20.29
LTE Band26	3	26705	8	#0	QPSK	23.68	19.33
LTE Band26	3	26705	8	#Mid	QPSK	23.66	19.31
LTE Band26	3	26705	8	#Max	QPSK	23.61	19.26
LTE Band26	3	26705	15	#0	QPSK	23.72	19.37
LTE Band26	3	26705	1	#0	QAM16	23.96	19.61
LTE Band26	3	26705	1	#Mid	QAM16	24.06	19.71
LTE Band26	3	26705	1	#Max	QAM16	24.01	19.66
LTE Band26	3	26705	8	#0	QAM16	22.86	18.51
LTE Band26	3	26705	8	#Mid	QAM16	22.70	18.35
LTE Band26	3	26705	8	#Max	QAM16	22.74	18.39
LTE Band26	3	26705	15	#0	QAM16	22.75	18.40
LTE Band26	3	26740	1	#0	QPSK	24.60	20.25
LTE Band26	3	26740	1	#Mid	QPSK	24.77	20.42
LTE Band26	3	26740	1	#Max	QPSK	24.72	20.37
LTE Band26	3	26740	8	#0	QPSK	23.75	19.40
LTE Band26	3	26740	8	#Mid	QPSK	23.76	19.41
LTE Band26	3	26740	8	#Max	QPSK	23.82	19.47
LTE Band26	3	26740	15	#0	QPSK	23.78	19.43
LTE Band26	3	26740	1	#0	QAM16	23.83	19.48
LTE Band26	3	26740	1	#Mid	QAM16	23.89	19.54
LTE Band26	3	26740	1	#Max	QAM16	23.90	19.55
LTE Band26	3	26740	8	#0	QAM16	22.77	18.42
LTE Band26	3	26740	8	#Mid	QAM16	22.97	18.62
LTE Band26	3	26740	8	#Max	QAM16	22.85	18.50
LTE Band26	3	26740	15	#0	QAM16	22.76	18.41
LTE Band26	3	26775	1	#0	QPSK	24.81	20.46
LTE Band26	3	26775	1	#Mid	QPSK	25.00	20.65
LTE Band26	3	26775	1	#Max	QPSK	25.14	20.79
LTE Band26	3	26775	8	#0	QPSK	23.94	19.59
LTE Band26	3	26775	8	#Mid	QPSK	23.87	19.52
LTE Band26	3	26775	8	#Max	QPSK	24.04	19.69
LTE Band26	3	26775	15	#0	QPSK	23.96	19.61
LTE Band26	3	26775	1	#0	QAM16	23.77	19.42
LTE Band26	3	26775	1	#Mid	QAM16	23.87	19.52
LTE Band26	3	26775	1	#Max	QAM16	23.89	19.54



LTE Band26	3	26775	8	#0	QAM16	22.94	18.59
LTE Band26	3	26775	8	#Mid	QAM16	22.94	18.59
LTE Band26	3	26775	8	#Max	QAM16	23.00	18.65
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LTE Band26	5	26715	12	#Mid	QPSK	23.68	19.33
LTE Band26	5	26715	12	#Max	QPSK	23.71	19.36
LTE Band26	5	26715	25	#0	QPSK	23.70	19.35
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LTE Band26	5	26715	1	#Mid	QAM16	23.95	19.60
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LTE Band26	5	26740	1	#0	QPSK	24.70	20.35
LTE Band26	5	26740	1	#Mid	QPSK	24.76	20.41
LTE Band26	5	26740	1	#Max	QPSK	24.83	20.48
LTE Band26	5	26740	12	#0	QPSK	23.93	19.58
LTE Band26	5	26740	12	#Mid	QPSK	23.81	19.46
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LTE Band26	5	26740	1	#Max	QAM16	24.05	19.70
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LTE Band26	5	26740	25	#0	QAM16	22.78	18.43
LTE Band26	5	26765	1	#0	QPSK	24.73	20.38
LTE Band26	5	26765	1	#Mid	QPSK	24.72	20.37
LTE Band26	5	26765	1	#Max	QPSK	24.84	20.49
LTE Band26	5	26765	12	#0	QPSK	23.88	19.53
LTE Band26	5	26765	12	#Mid	QPSK	23.90	19.55
LTE Band26	5	26765	12	#Max	QPSK	23.97	19.62
LTE Band26	5	26765	25	#0	QPSK	23.89	19.54
LTE Band26	5	26765	1	#0	QAM16	24.12	19.77
LTE Band26	5	26765	1	#Mid	QAM16	24.21	19.86
LTE Band26	5	26765	1	#Max	QAM16	24.26	19.91
LTE Band26	5	26765	12	#0	QAM16	22.96	18.61



LTE Band26	5	26765	12	#Mid	QAM16	22.97	18.62
LTE Band26	5	26765	12	#Max	QAM16	22.97	18.62
LTE Band26	5	26765	25	#0	QAM16	22.91	18.56
LTE Band26	10	26740	1	#0	QPSK	24.84	20.49
LTE Band26	10	26740	1	#Mid	QPSK	24.67	20.32
LTE Band26	10	26740	1	#Max	QPSK	25.11	20.76
LTE Band26	10	26740	25	#0	QPSK	23.75	19.40
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LTE Band26	10	26740	25	#Max	QPSK	23.89	19.54
LTE Band26	10	26740	50	#0	QPSK	23.90	19.55
LTE Band26	10	26740	1	#0	QAM16	24.05	19.70
LTE Band26	10	26740	1	#Mid	QAM16	23.90	19.55
LTE Band26	10	26740	1	#Max	QAM16	24.41	20.06
LTE Band26	10	26740	25	#0	QAM16	22.88	18.53
LTE Band26	10	26740	25	#Mid	QAM16	22.85	18.50
LTE Band26	10	26740	25	#Max	QAM16	22.93	18.58
LTE Band26	10	26740	50	#0	QAM16	22.88	18.53

6.2. Occupied Bandwidth

100%RB

LTE Band 26							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	1.4	26697	814.7	1.096	1.280	
			26740	819	1.093	1.276	
			26783	823.3	1.094	1.297	
		3	26705	815.5	2.699	2.993	
			26740	819	2.699	2.974	
			26775	822.5	2.701	2.989	
		5	26715	816.5	4.525	4.955	
			26740	819	4.501	4.919	
			26765	821.5	4.511	4.972	
		10	26740	819	8.979	9.885	
		16QAM	1.4	26697	814.7	1.096	1.294
				26740	819	1.095	1.298
	26783			823.3	1.098	1.270	
	3		26705	815.5	2.698	2.993	
			26740	819	2.693	2.959	
			26775	822.5	2.695	2.974	
	5		26715	816.5	4.512	4.966	
			26740	819	4.516	5.032	
			26765	821.5	4.513	4.979	
	10		26740	819	8.987	9.807	

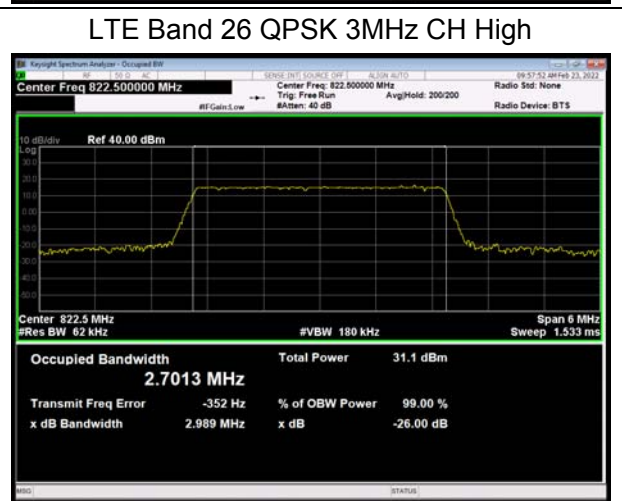
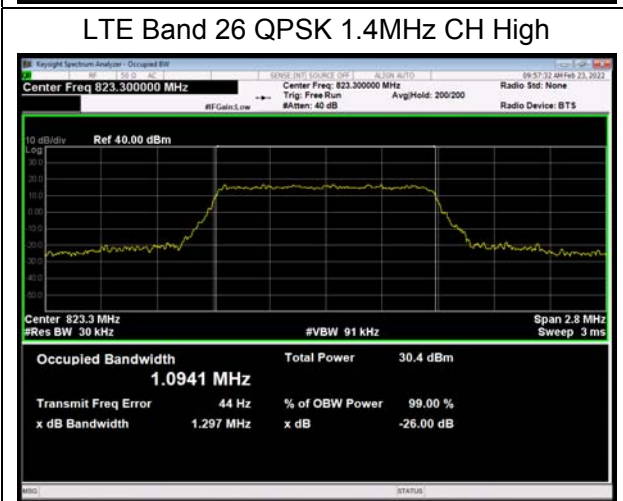
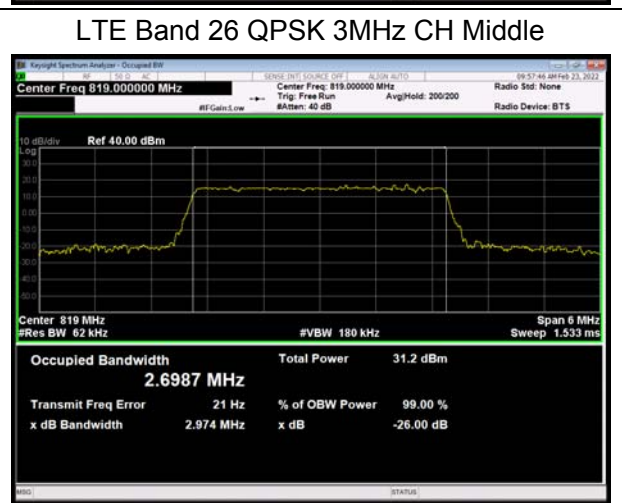
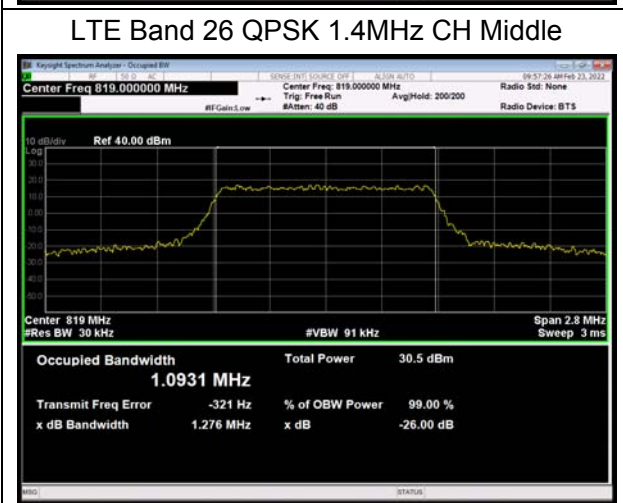
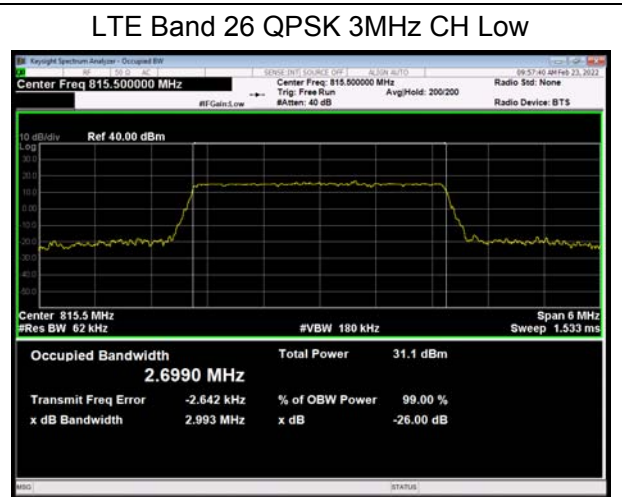
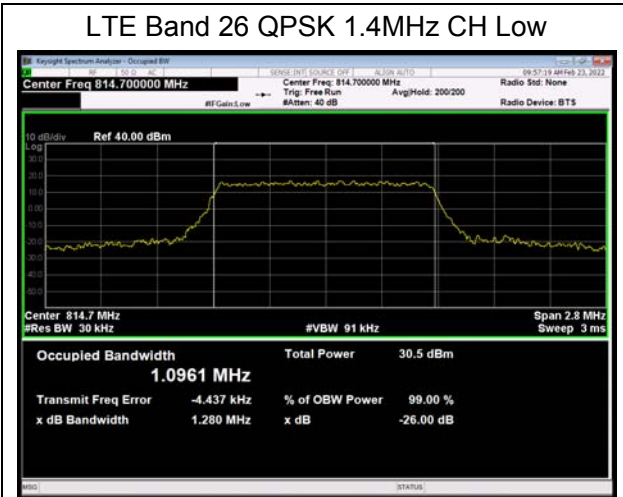


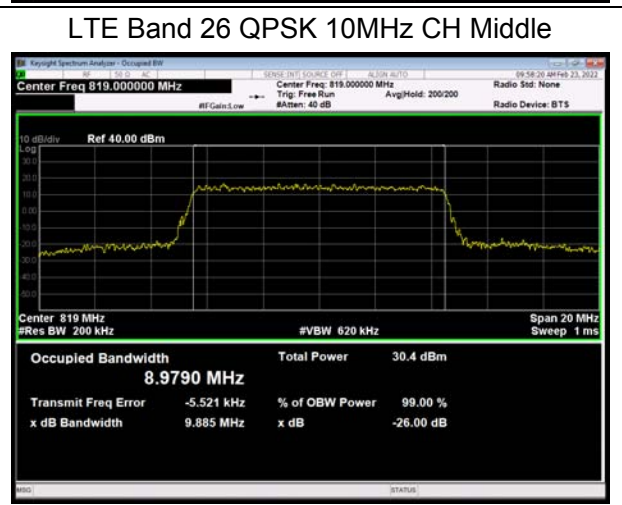
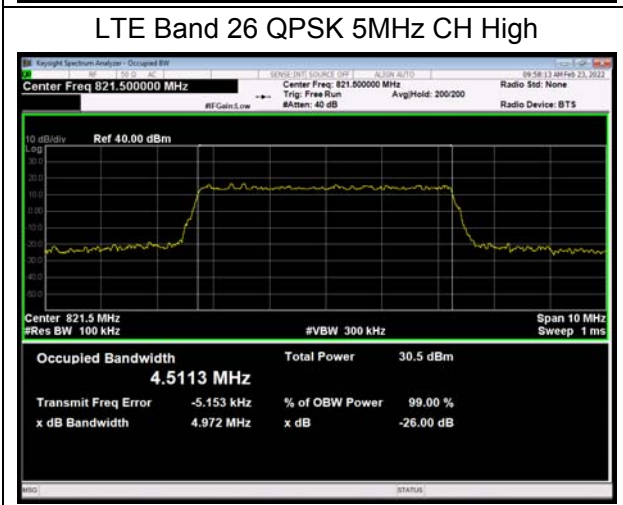
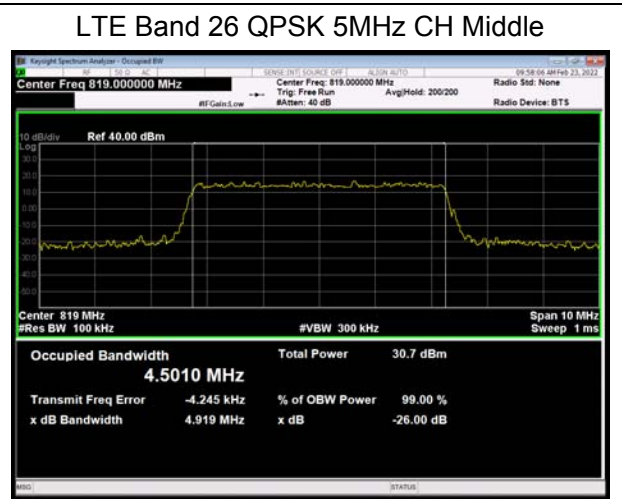
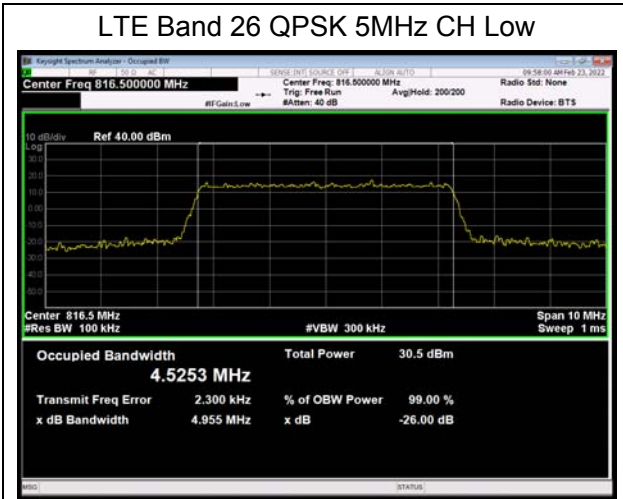
1 RB

LTE Band 26							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	1.4	26697	814.7	0.263	0.406	
			26740	819	0.267	0.395	
			26783	823.3	0.270	0.416	
		3	26705	815.5	0.342	0.485	
			26740	819	0.347	0.519	
			26775	822.5	0.336	0.481	
		5	26715	816.5	0.480	0.662	
			26740	819	0.469	0.711	
			26765	821.5	0.509	0.694	
		10	26740	819	0.706	0.974	
		16QAM	1.4	26697	814.7	0.267	0.413
				26740	819	0.266	0.403
	26783			823.3	0.274	0.393	
	3		26705	815.5	0.330	0.481	
			26740	819	0.338	0.466	
			26775	822.5	0.313	0.464	
	5		26715	816.5	0.491	0.673	
			26740	819	0.474	0.669	
			26765	821.5	0.460	0.672	
	10		26740	819	0.698	0.986	

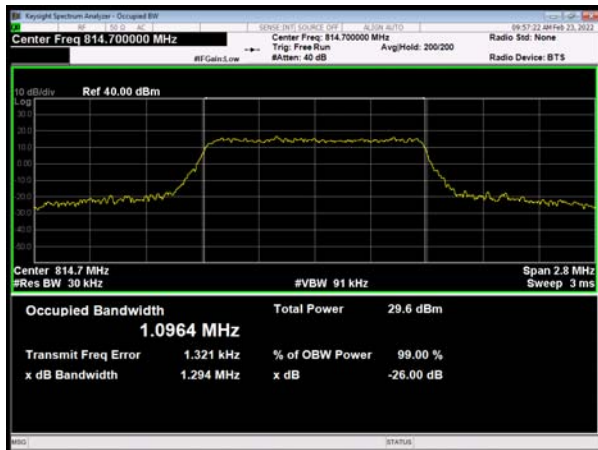


100%RB

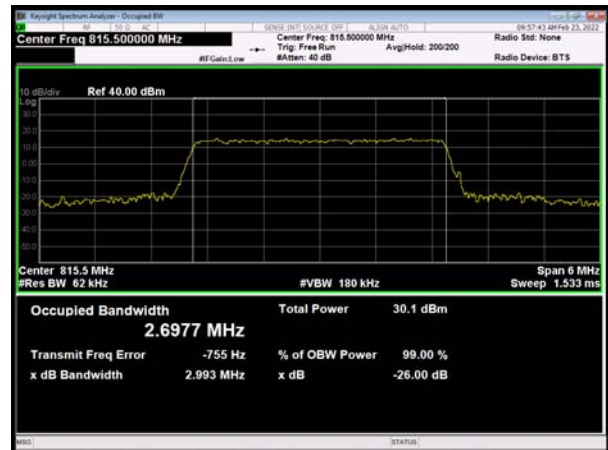




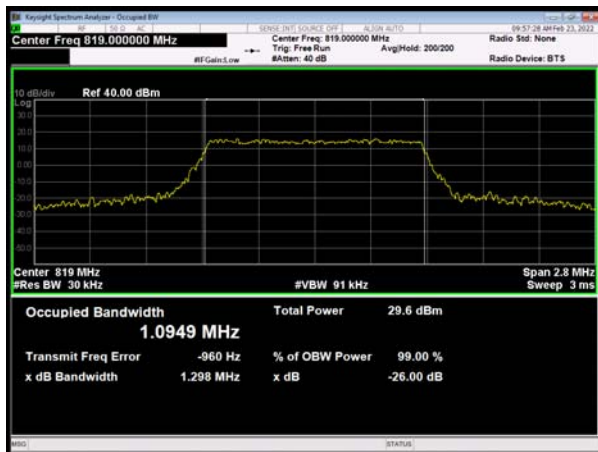
LTE Band 26 16QAM 1.4MHz CH Low



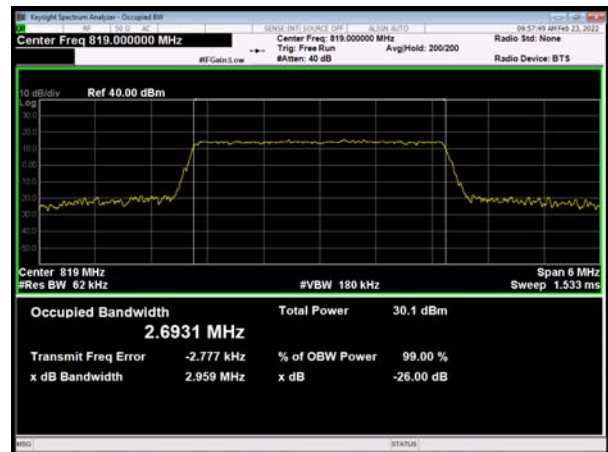
LTE Band 26 16QAM 3MHz CH Low



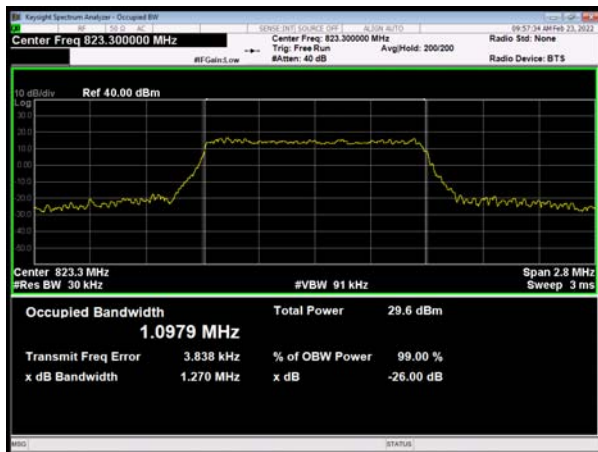
LTE Band 26 16QAM 1.4MHz CH Middle



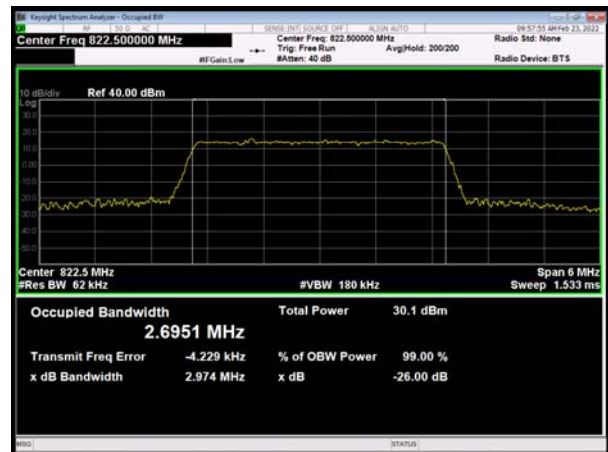
LTE Band 26 16QAM 3MHz CH Middle



LTE Band 26 16QAM 1.4MHz CH High

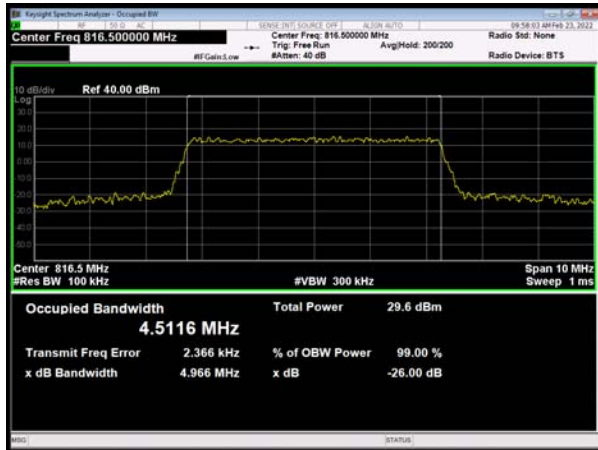


LTE Band 26 16QAM 3MHz CH High

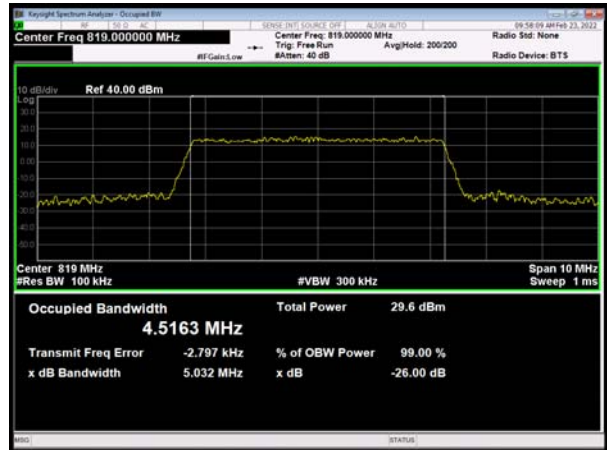




LTE Band 26 16QAM 5MHz CH Low



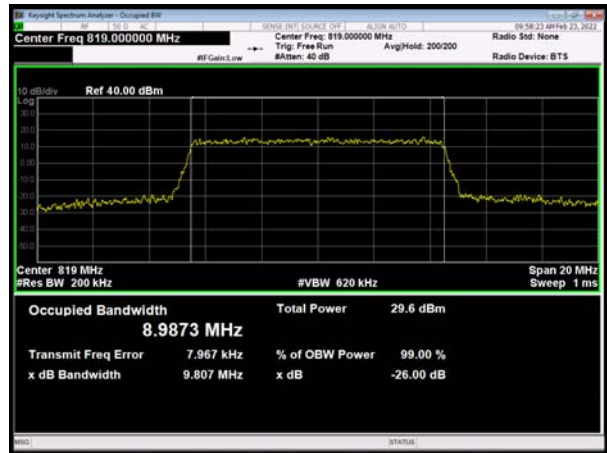
LTE Band 26 16QAM 5MHz CH Middle



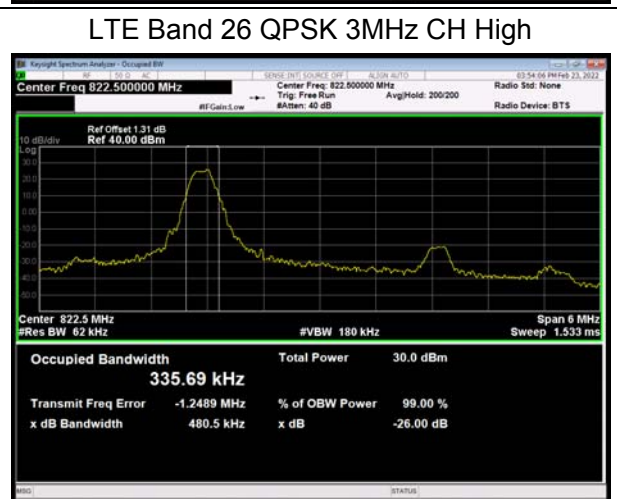
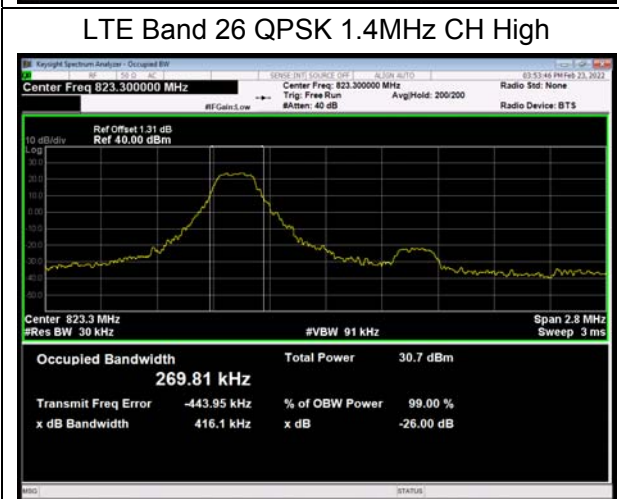
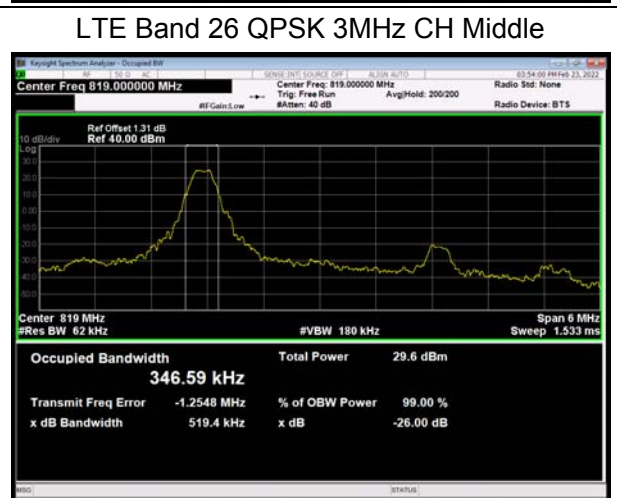
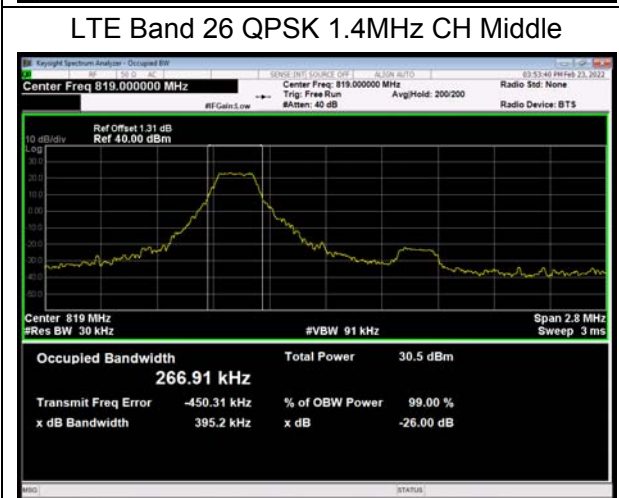
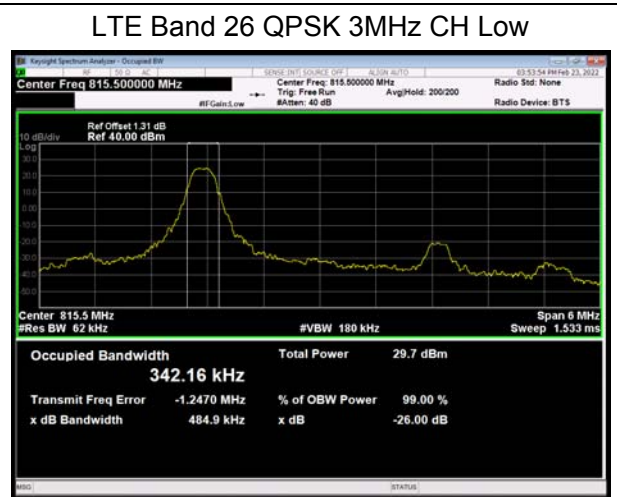
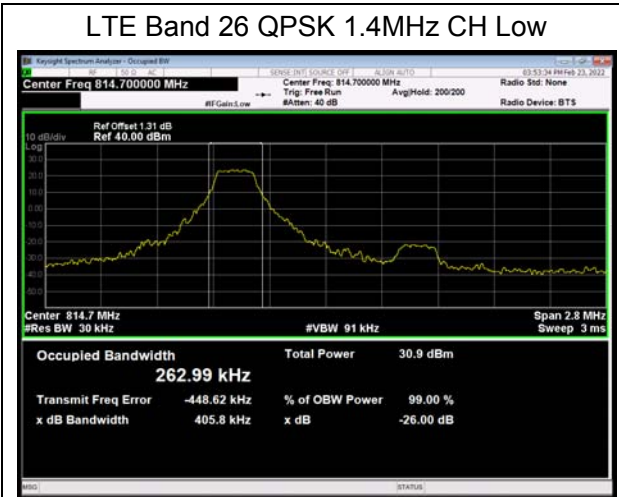
LTE Band 26 16QAM 5MHz CH High

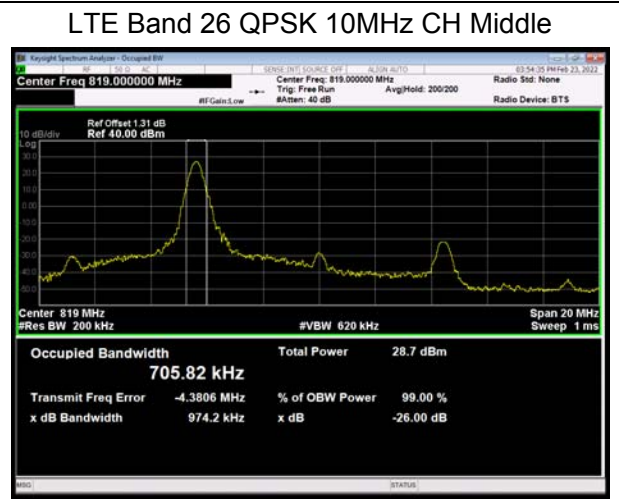
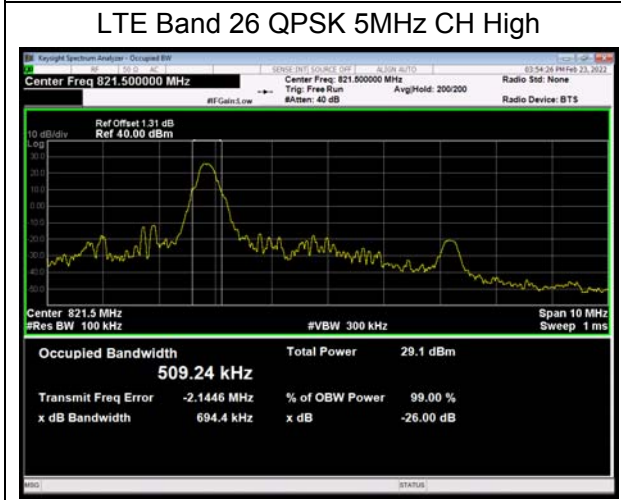
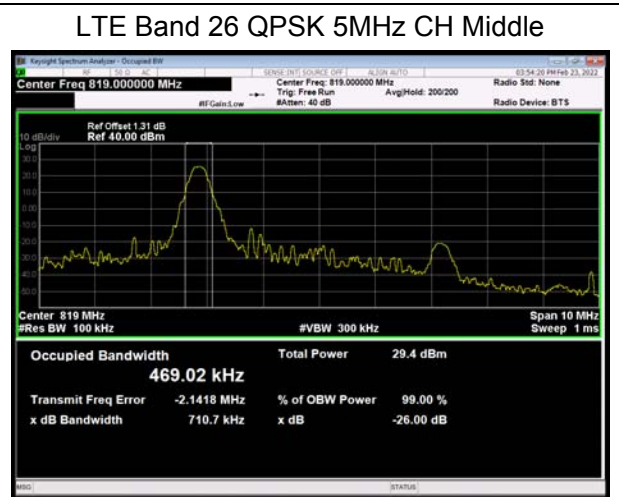
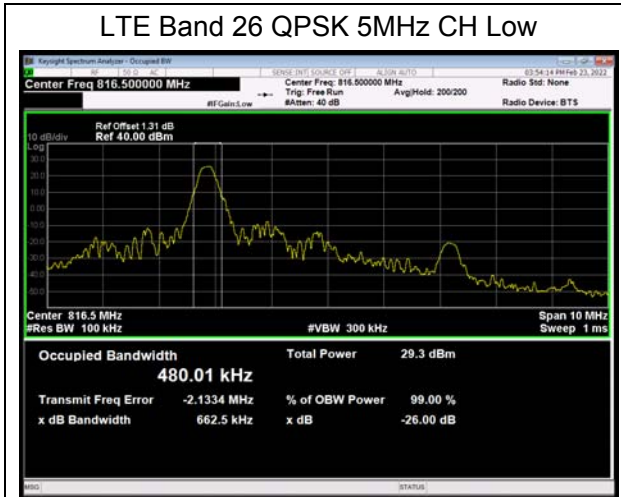


LTE Band 26 16QAM 10MHz CH Middle

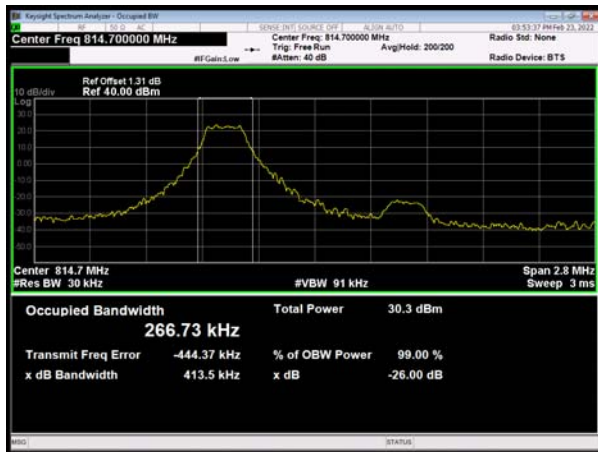


1 RB

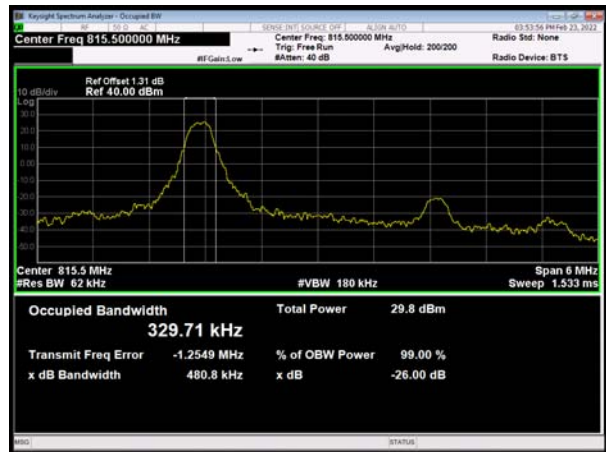




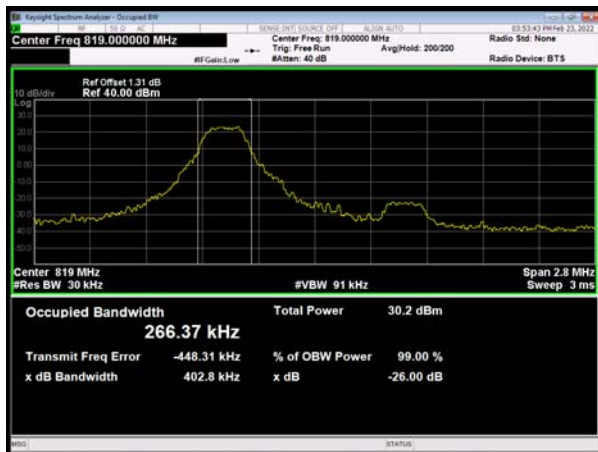
LTE Band 26 16QAM 1.4MHz CH Low



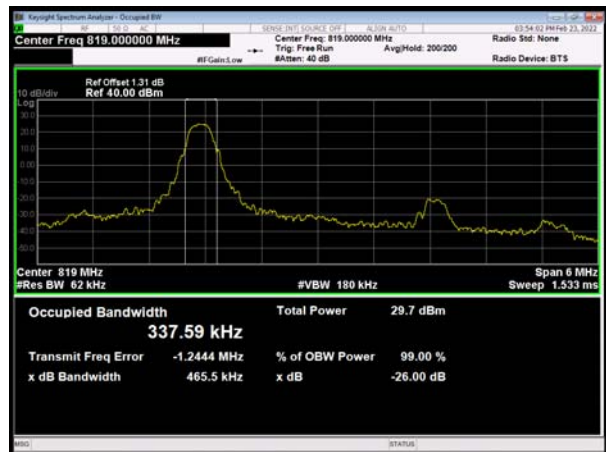
LTE Band 26 16QAM 3MHz CH Low



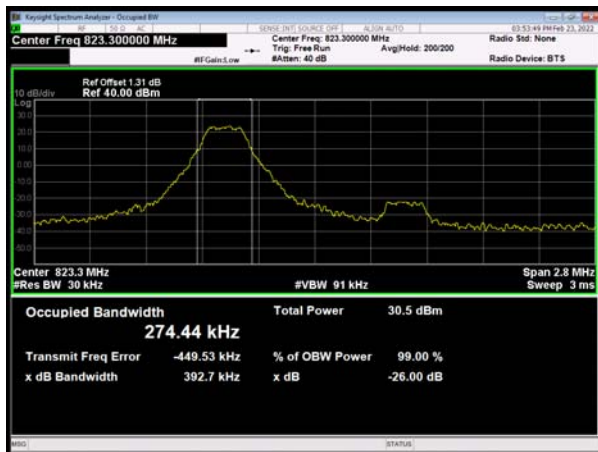
LTE Band 26 16QAM 1.4MHz CH Middle



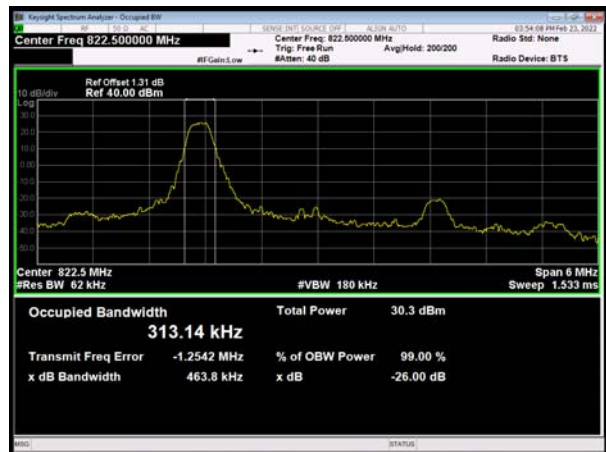
LTE Band 26 16QAM 3MHz CH Middle



LTE Band 26 16QAM 1.4MHz CH High

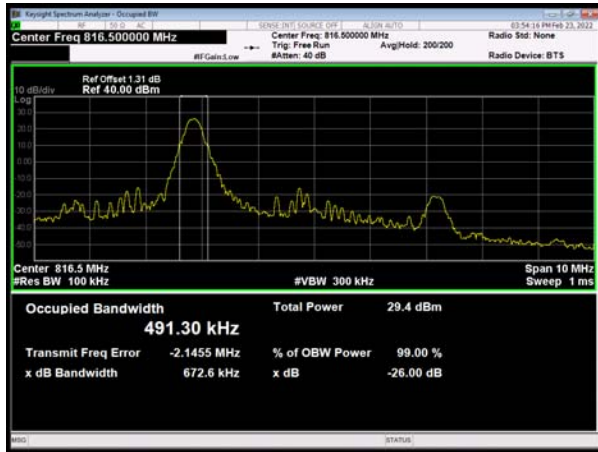


LTE Band 26 16QAM 3MHz CH High

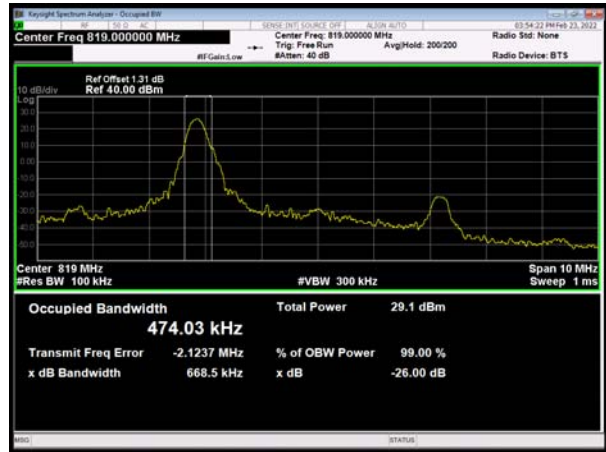




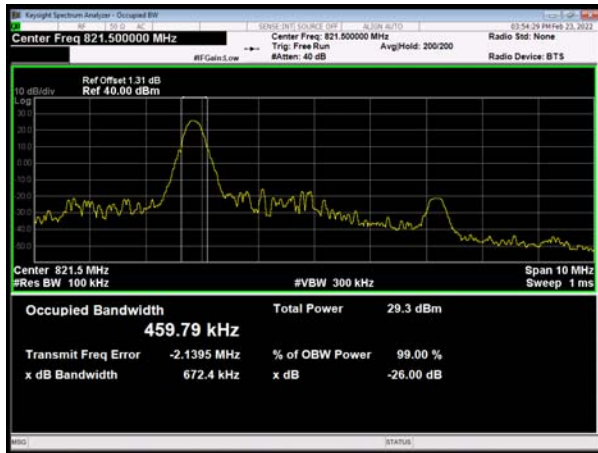
LTE Band 26 16QAM 5MHz CH Low



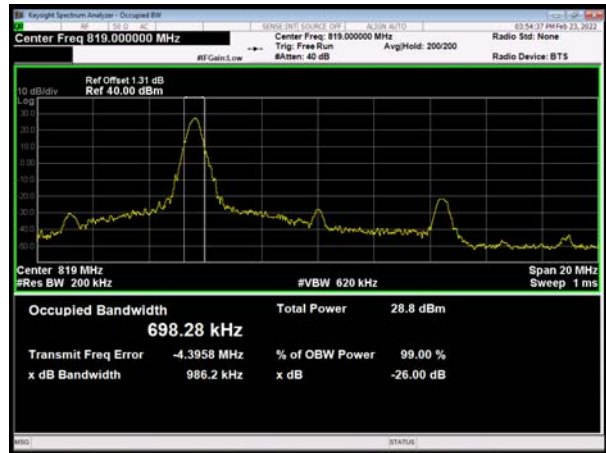
LTE Band 26 16QAM 5MHz CH Middle



LTE Band 26 16QAM 5MHz CH High



LTE Band 26 16QAM 10MHz CH Middle





6.3. Emission Mask

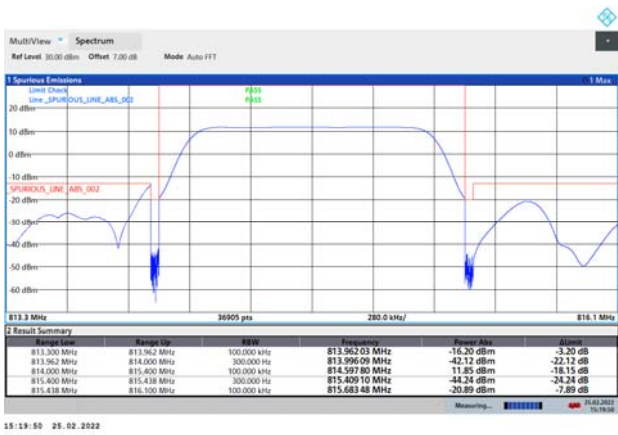
LTE Band 26 QPSK 1.4MHz CH-Low 1RB



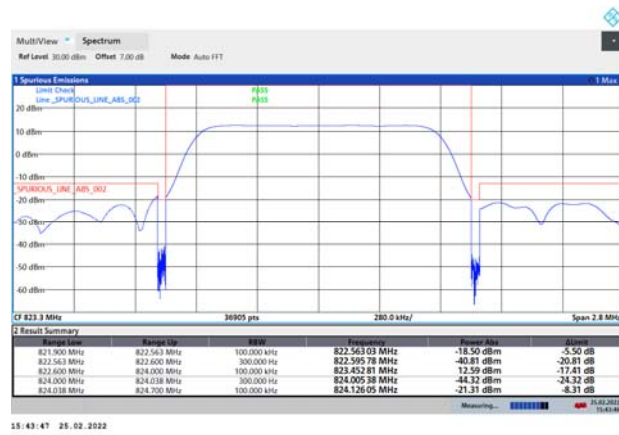
LTE Band 26 QPSK 1.4MHz CH-High 1RB



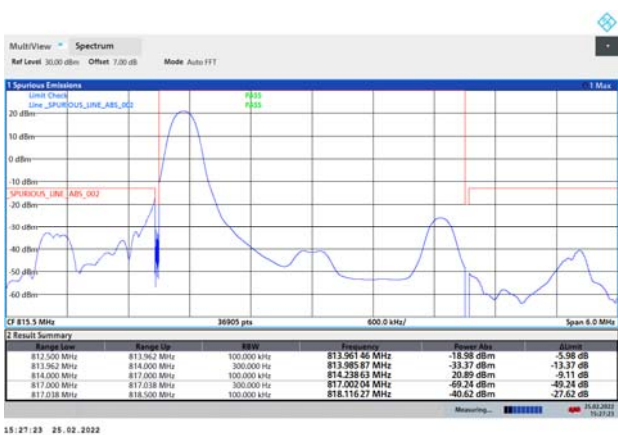
LTE Band 26 QPSK 1.4MHz CH-Low 100%RB



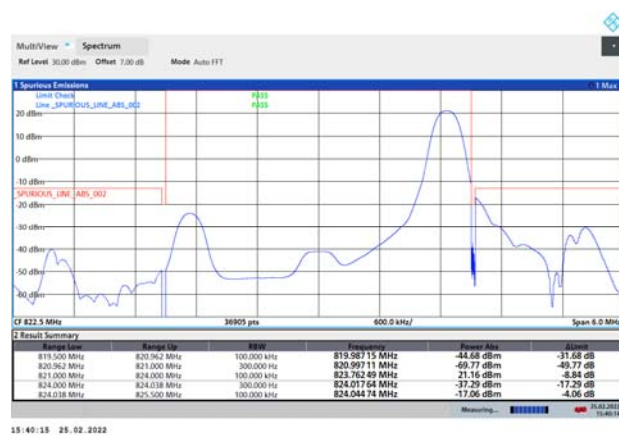
LTE Band 26 QPSK 1.4MHz CH-High 100%RB



LTE Band 26 QPSK 3MHz CH-Low 1RB



LTE Band 26 QPSK 3MHz CH-High 1RB





LTE Band 26 QPSK 3MHz CH-Low 100%RB



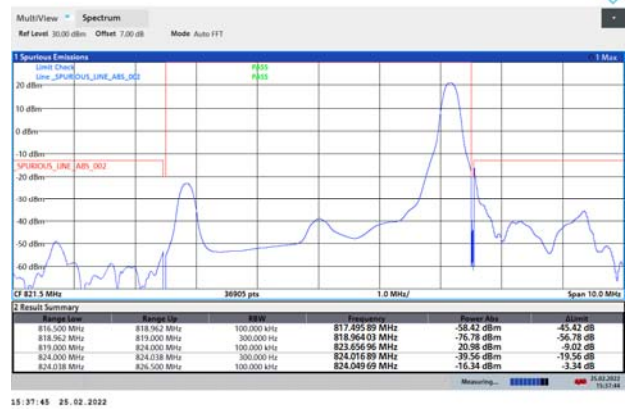
LTE Band 26 QPSK 3MHz CH-High 100%RB



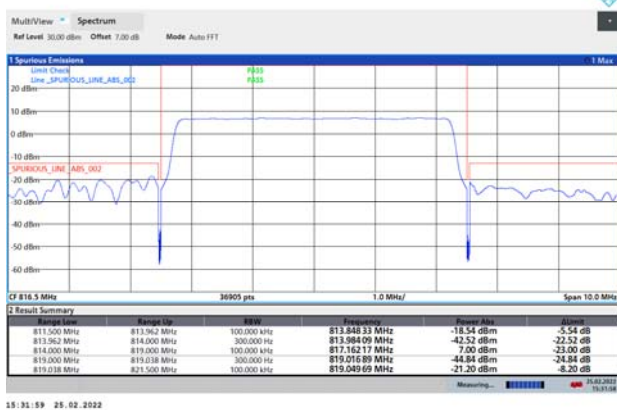
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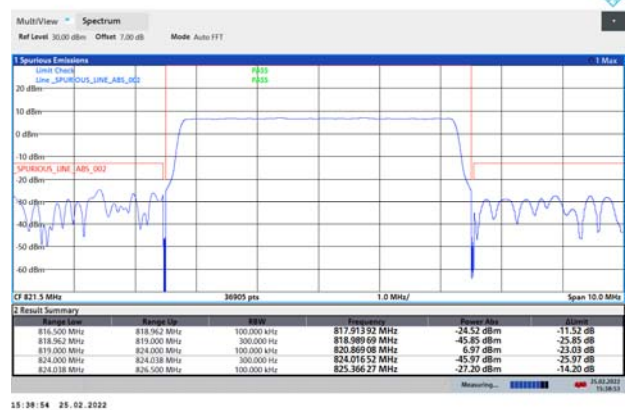
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LTE Band 26 QPSK 5MHz CH-Low 100%RB

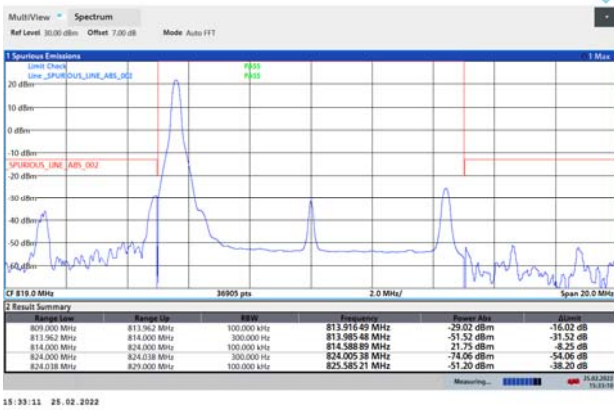


LTE Band 26 QPSK 5MHz CH-High 100%RB

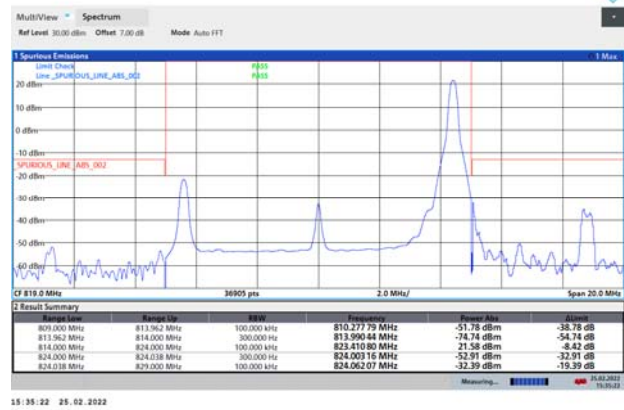




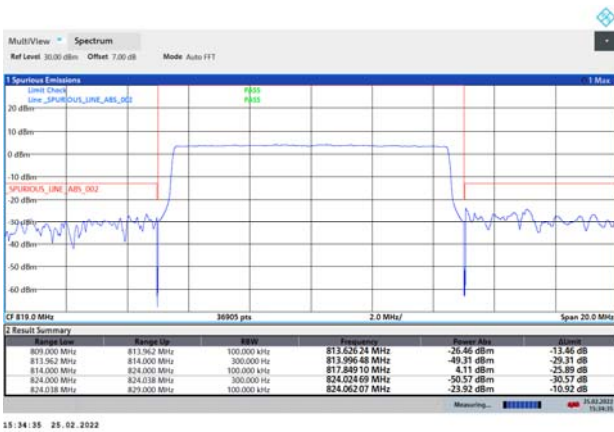
LTE Band 26 QPSK 10MHz CH-Low 1RB



LTE Band 26 QPSK 10MHz CH-High 1RB



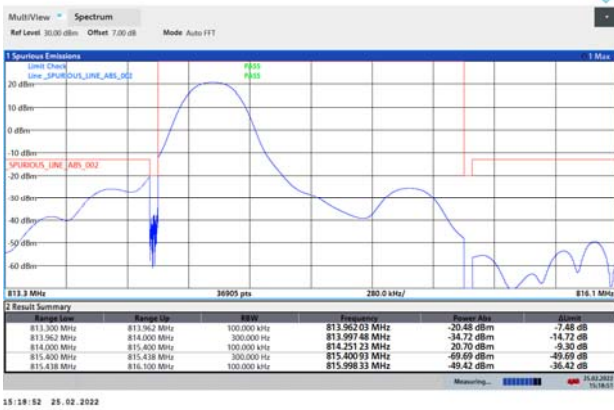
LTE Band 26 QPSK 10MHz CH-Middle 100%RB



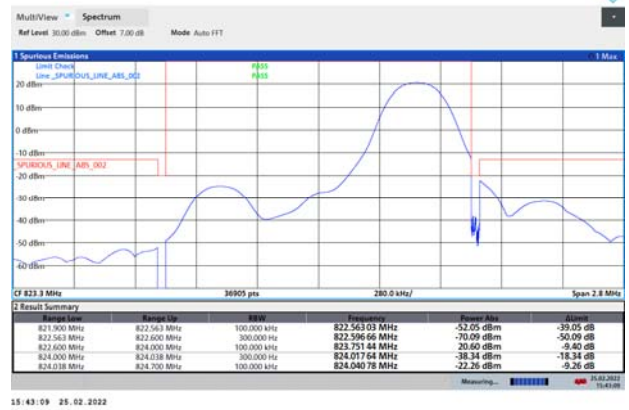
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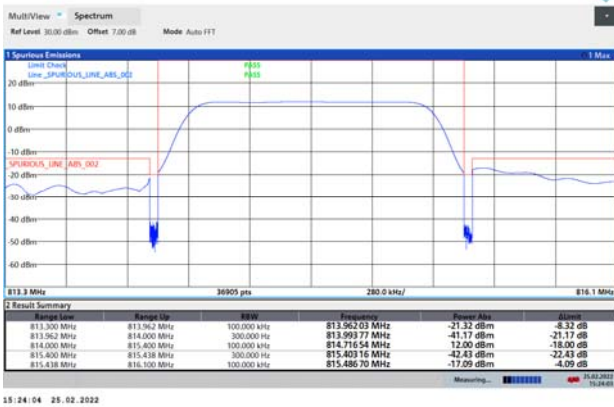
LTE Band 26 16QAM 1.4MHz CH-Low 1RB



LTE Band 26 16QAM 1.4MHz CH-High 1RB



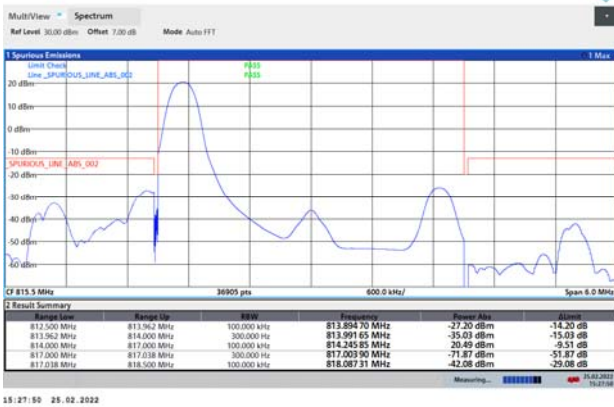
LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



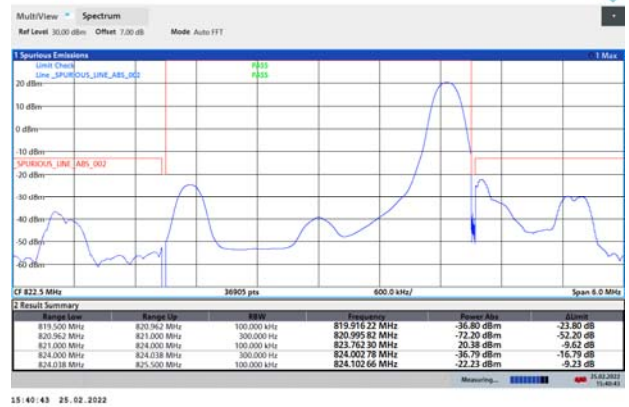
LTE Band 26 16QAM 1.4MHz CH-High 100%RB



LTE Band 26 16QAM 3MHz CH-Low 1RB



LTE Band 26 16QAM 3MHz CH-High 1RB





LTE Band 26 16QAM 3MHz CH-Low 100%RB



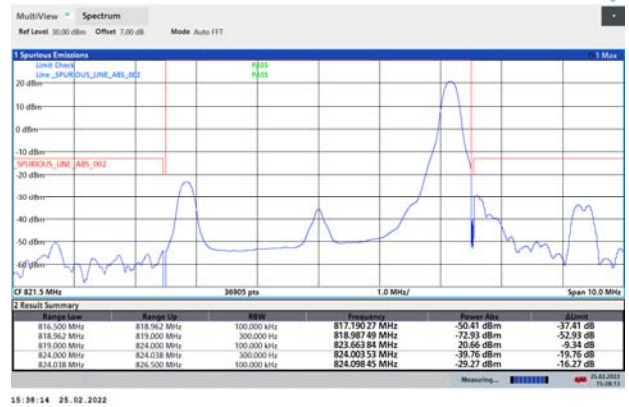
LTE Band 26 16QAM 3MHz CH-High 100%RB



LTE Band 26 16QAM 5MHz CH-Low 1RB



LTE Band 26 16QAM 5MHz CH-High 1RB



LTE Band 26 16QAM 5MHz CH-Low 100%RB

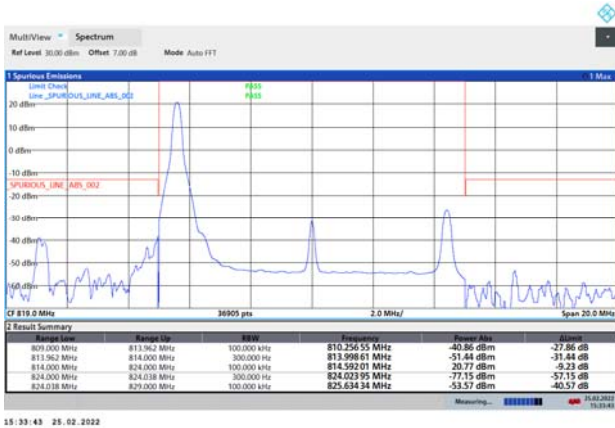


LTE Band 26 16QAM 5MHz CH-High 100%RB

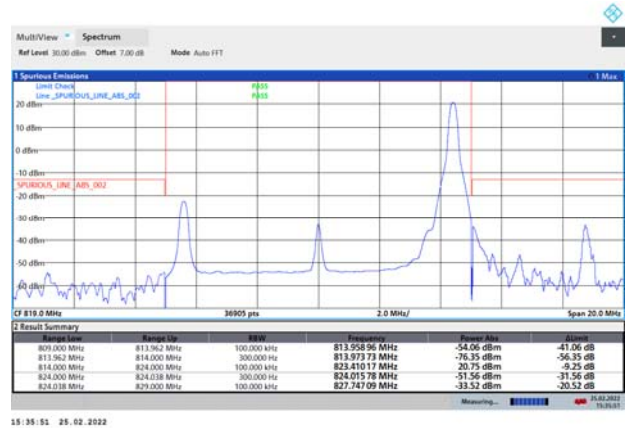




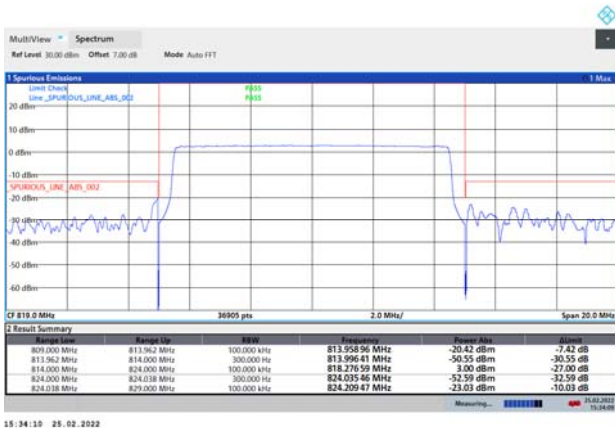
LTE Band 26 16QAM 10MHz CH-Low 1RB



LTE Band 26 16QAM 10MHz CH-High 1RB



LTE Band 26 16QAM 10MHz CH-Middle 100%RB



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

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
1.4 MHz (QPSK)	26697	814.7	26.93	22.39	4.54	13	PASS
	26740	819	27.03	22.48	4.55	13	PASS
	26783	823.3	27.40	22.53	4.87	13	PASS
3 MHz (QPSK)	26697	814.7	27.07	22.52	4.55	13	PASS
	26740	819	27.08	22.54	4.54	13	PASS
	26783	823.3	27.34	22.55	4.79	13	PASS
5 MHz (QPSK)	26697	814.7	27.00	22.45	4.55	13	PASS
	26740	819	27.10	22.53	4.57	13	PASS
	26783	823.3	27.24	22.51	4.73	13	PASS
10 MHz (QPSK)	26740	819	27.27	22.54	4.73	13	PASS

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
1.4 MHz (16QAM)	26697	814.7	26.82	21.45	5.37	13	PASS
	26740	819	27.01	21.58	5.43	13	PASS
	26783	823.3	27.25	21.56	5.69	13	PASS
3 MHz (16QAM)	26697	814.7	26.97	21.57	5.40	13	PASS
	26740	819	26.98	21.53	5.45	13	PASS
	26783	823.3	27.27	21.60	5.67	13	PASS
5 MHz (16QAM)	26697	814.7	26.81	21.42	5.39	13	PASS
	26740	819	26.94	21.53	5.41	13	PASS
	26783	823.3	27.10	21.52	5.58	13	PASS
10 MHz (16QAM)	26740	819	27.12	21.59	5.53	13	PASS

6.5. Frequency Stability

LTE Band 26						
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	16.16	8.46	0.01974	0.01033	PASS
Extreme (35°C)		4.65	6.37	0.00568	0.00777	PASS
Extreme (30°C)		6.50	10.80	0.00793	0.01318	PASS
Extreme (20°C)		17.42	5.31	0.02127	0.00649	PASS
Extreme (10°C)		2.65	10.87	0.00323	0.01328	PASS
Extreme (0°C)		13.38	7.19	0.01634	0.00878	PASS
25°C	LV	15.10	12.78	0.01844	0.01560	PASS
	HV	7.86	10.28	0.00959	0.01255	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	10.64	11.75	0.01299	0.01435	PASS
Extreme (35°C)		14.60	15.86	0.01782	0.01937	PASS
Extreme (30°C)		1.44	6.91	0.00176	0.00844	PASS
Extreme (20°C)		12.61	17.82	0.01539	0.02175	PASS
Extreme (10°C)		10.53	11.50	0.01286	0.01404	PASS
Extreme (0°C)		7.53	17.57	0.00919	0.02145	PASS
25°C	LV	9.39	14.74	0.01147	0.01800	PASS
	HV	9.24	15.37	0.01128	0.01877	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	12.42	8.17	0.01517	0.00997	PASS
Extreme (35°C)		11.27	7.13	0.01376	0.00870	PASS
Extreme (30°C)		14.61	14.71	0.01784	0.01797	PASS
Extreme (20°C)		5.15	13.71	0.00629	0.01675	PASS
Extreme (10°C)		3.14	3.40	0.00383	0.00415	PASS
Extreme (0°C)		17.47	14.50	0.02133	0.01770	PASS
25°C	LV	13.50	11.03	0.01649	0.01347	PASS
	HV	15.89	14.79	0.01940	0.01805	PASS

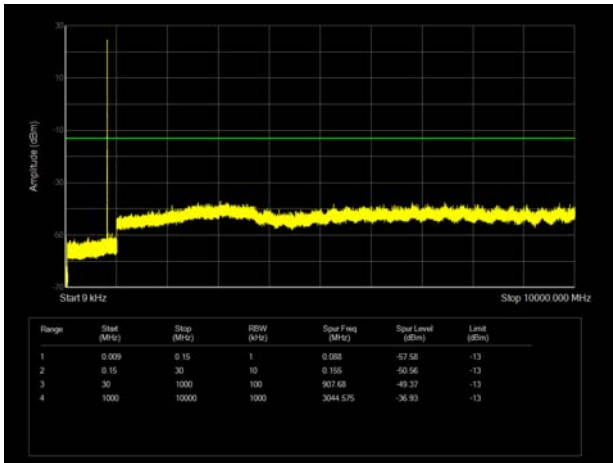


Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	4.51	9.54	0.00551	0.01165	PASS
Extreme (35°C)		17.30	16.39	0.02112	0.02001	PASS
Extreme (30°C)		5.30	8.01	0.00647	0.00978	PASS
Extreme (20°C)		4.88	9.30	0.00596	0.01136	PASS
Extreme (10°C)		16.03	4.23	0.01957	0.00517	PASS
Extreme (0°C)		6.18	16.42	0.00754	0.02005	PASS
25°C	LV	11.46	8.58	0.01399	0.01047	PASS
	HV	3.88	16.01	0.00474	0.01955	PASS

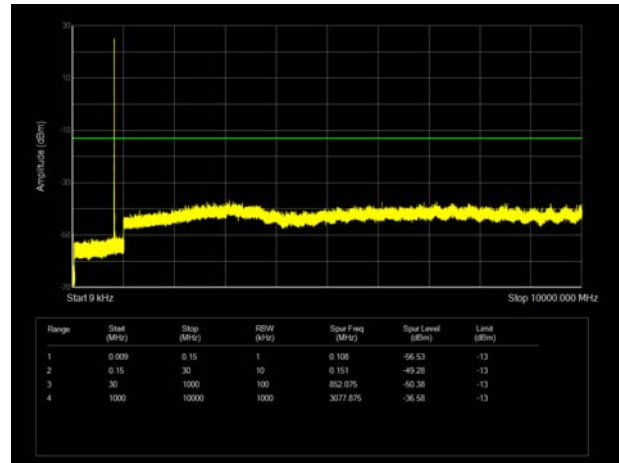
6.6. Spurious Emissions at Antenna Terminals

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.

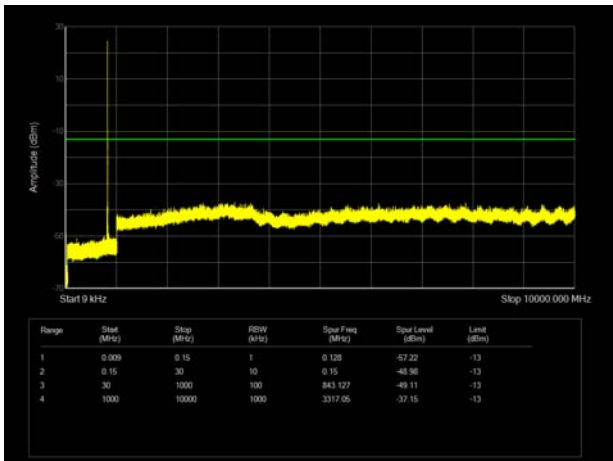
LTE Band 26 1.4MHz CH Low 9kHz~10GHz



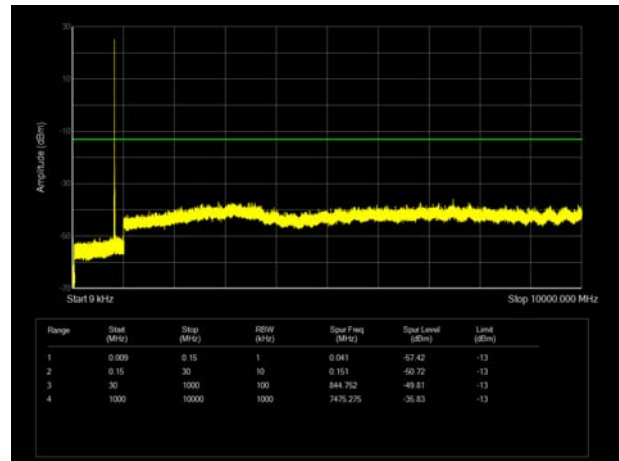
LTE Band 26 3MHz CH Low 9kHz~10GHz



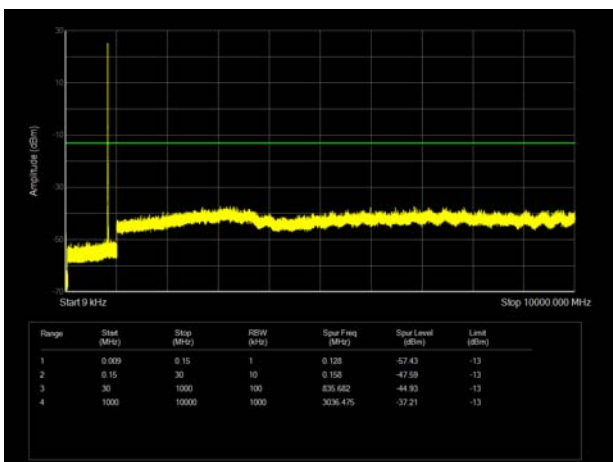
LTE Band 26 1.4MHz CH Middle 9kHz~10GHz



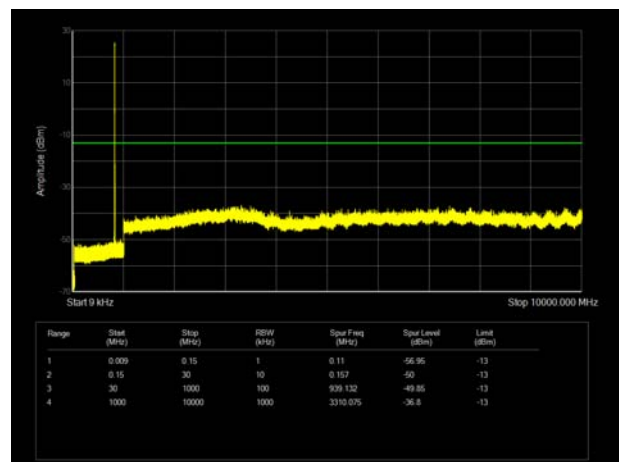
LTE Band 26 3MHz CH Middle 9kHz~10GHz



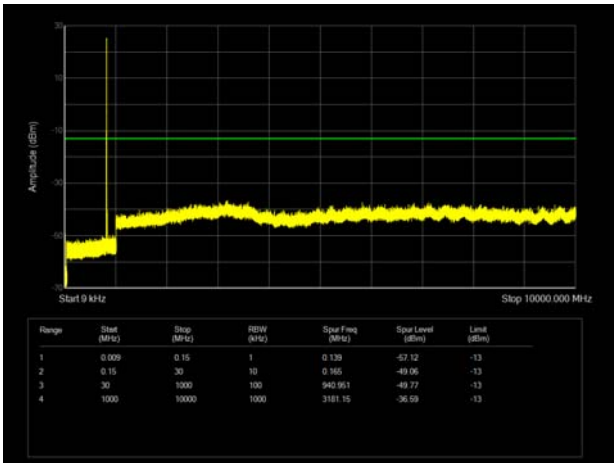
LTE Band 26 1.4MHz CH High 9kHz~10GHz



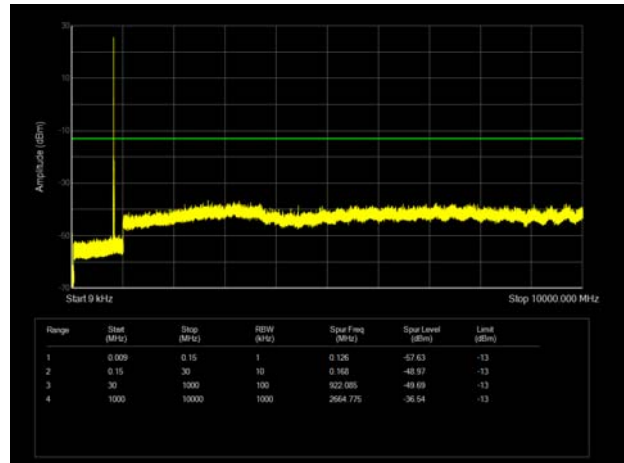
LTE Band 26 3MHz CH High 9kHz~10GHz



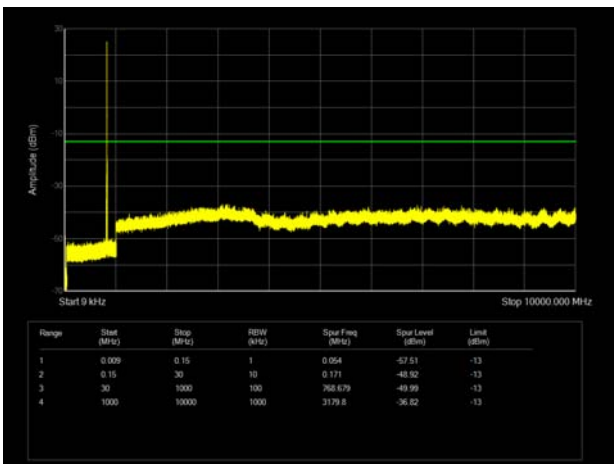
LTE Band 26 5MHz CH Low 9kHz~10GHz



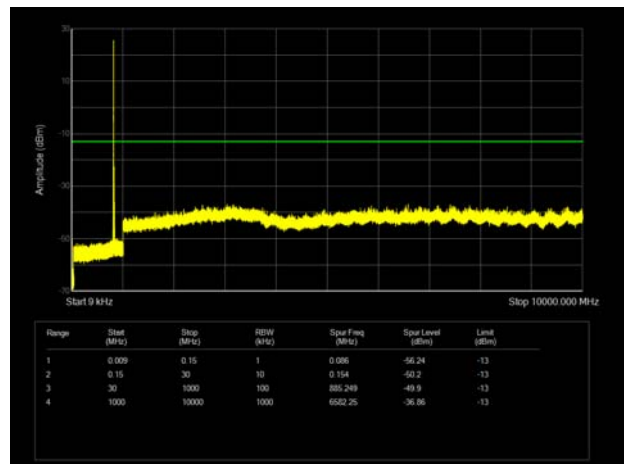
LTE Band 26 5MHz CH Middle 9kHz~10GHz



LTE Band 26 5MHz CH High 3kHz~10GHz



LTE Band 26 10MHz CH Middle 9kHz~10GHz



6.7. Radiates Spurious Emission

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 26 1.4MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1636.88	-67.20	1.70	8.70	Horizontal	-62.35	-13.00	49.35	135
3	2455.50	-62.14	2.30	12.00	Horizontal	-54.59	-13.00	41.59	225
4	3273.20	-67.43	2.20	13.10	Horizontal	-58.68	-13.00	45.68	315
5	4091.50	-63.88	3.00	12.50	Horizontal	-56.53	-13.00	43.53	0
6	4909.80	-63.48	3.10	12.50	Horizontal	-56.23	-13.00	43.23	45
7	5728.10	-63.37	3.40	12.50	Horizontal	-56.42	-13.00	43.42	0
8	6546.40	-58.94	3.80	11.50	Horizontal	-53.39	-13.00	40.39	90
9	7364.70	-55.49	4.20	12.20	Horizontal	-49.64	-13.00	36.64	90
10	8183.00	-52.87	4.30	12.30	Horizontal	-47.02	-13.00	34.02	180

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 26 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.69	-67.34	1.70	8.70	Horizontal	-62.49	-13.00	49.49	0
3	2450.63	-62.75	2.30	12.00	Horizontal	-55.20	-13.00	42.20	45
4	3266.00	-67.02	2.20	13.10	Horizontal	-58.27	-13.00	45.27	180
5	4082.50	-64.13	3.00	12.50	Horizontal	-56.78	-13.00	43.78	180
6	4899.00	-64.15	3.10	12.50	Horizontal	-56.90	-13.00	43.90	225
7	5715.50	-63.17	3.40	12.50	Horizontal	-56.22	-13.00	43.22	225
8	6532.00	-60.24	3.80	11.50	Horizontal	-54.69	-13.00	41.69	135
9	7348.50	-56.60	4.20	12.20	Horizontal	-50.75	-13.00	37.75	225
10	8165.00	-55.61	4.30	12.30	Horizontal	-49.76	-13.00	36.76	0

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 26 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1629.38	-66.22	1.70	8.70	Horizontal	-61.37	-13.00	48.37	315
3	2443.88	-62.42	2.30	12.00	Horizontal	-54.87	-13.00	41.87	315
4	3256.00	-65.17	2.20	13.10	Horizontal	-56.42	-13.00	43.42	45
5	4070.00	-64.08	3.00	12.50	Horizontal	-56.73	-13.00	43.73	135
6	4884.00	-61.35	3.10	12.50	Horizontal	-54.10	-13.00	41.10	225
7	5698.00	-61.75	3.40	12.50	Horizontal	-54.80	-13.00	41.80	0
8	6512.00	-59.81	3.80	11.50	Horizontal	-54.26	-13.00	41.26	0
9	7326.00	-55.87	4.20	12.20	Horizontal	-50.02	-13.00	37.02	45
10	8140.00	-53.58	4.30	12.30	Horizontal	-47.73	-13.00	34.73	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.



7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	WEISS	VT 4002	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	100815	2021-12-12	2022-12-11
Horn Antenna	Schwarzbeck	BBHA 9120D	01799	2019-09-21	2022-09-21
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01439	2021-06-30	2024-06-29
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.