RF TEST REPORT

Applicant	Honor Device Co., Ltd.
FCC ID	2AYGCANY-LX3
Product	Smart Phone
Model	ANY-LX3
Report No.	R2202A0171-R1
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 22H (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	2.1051 / 22.917(a)	PASS
4	Peak-to-Average Power Ratio	22.913(d)/ KDB 971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 22.355	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
7	Radiates Spurious Emission	2.1053 / 22.917 (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
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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(SP01C900E11R1P1)		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Main Antenna	Second Antenna
	GSM 850	-2.2dBi	NA
	WCDMA Band V	-2.2dBi	NA
	LTE Band 5	-2.2dBi	NA
	LTE Band 26	-2.2dBi	NA
Test Mode(s)	GSM 850; WCDMA Band V; LTE Band 5/26;		
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.R.P.	GSM 850:	28.33dBm	
	WCDMA Band V:	20.33dBm	
	LTE Band 5:	20.36dBm	
	LTE Band 26:	21.25dBm	

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)
	GSM850	824 ~ 849	869 ~ 894
	WCDMA Band V	824 ~ 849	869 ~ 894
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 26	824 ~ 849	869 ~ 894

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. (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

Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.

2. There is more than 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.

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 22H (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 and X axis, horizontal polarization for 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 850	WCDMA Band V
RF Power Output and Effective 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 as the worst case configuration below for LTE Band 5/26

Test items	Modes	Bandwidth (MHz)					Modulation		RB			Test Channel		
		1.4	3	5	10	15	QPSK	16QAM	1	50%	100%	L	M	H
RF power output and Effective Radiated power	LTE 5	O	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 5	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 26	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 5	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 5	O	O	O	O	-	O	O	O	-	-	-	O	-
	LTE 26	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 5	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 26	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 5	O	-	O	O	-	O	-	O	-	-	-	O	-
	LTE 26	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 Radiated Power

Ambient condition

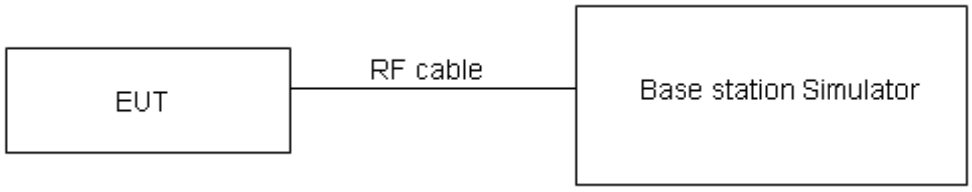
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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:
EIRP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBi)
where:dBd refers to gain relative to an ideal dipole.
EIRP (dBm) = ERP (dBm) + 2.15 (dB).

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 22.913(a)(5) specifies that "Mobile/portable stations are limited to 7 watts ERP".

Limit	≤ 7 W (38.45 dBm)

Measurement Uncertainty

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

Test Results

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

5.2. Occupied Bandwidth

Ambient condition

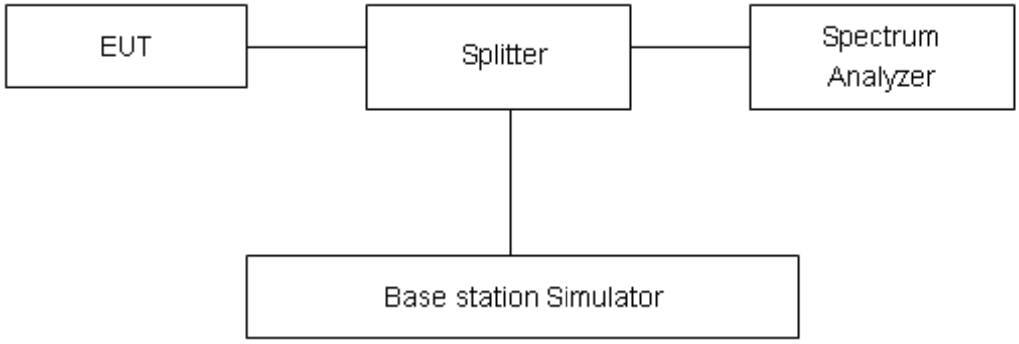
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 ≥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= 624Hz.

Test Results

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

5.3. Band Edge Compliance

Ambient condition

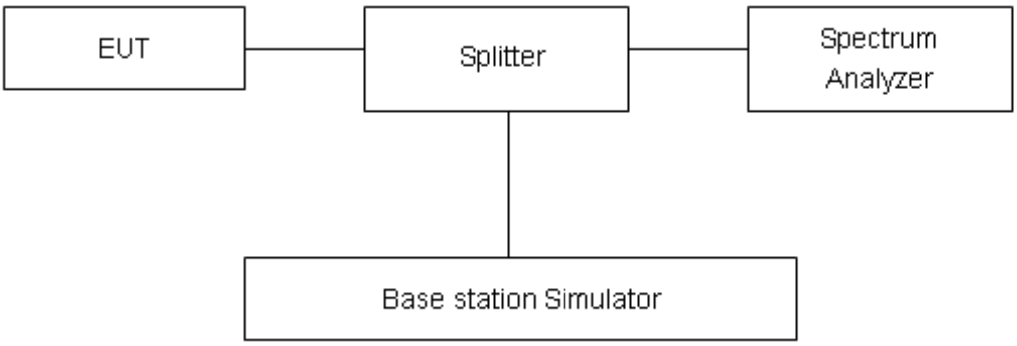
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.
RBW is set to ≥1%EBW, VBW is set to 3x RBW.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 22.917(a) 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

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)

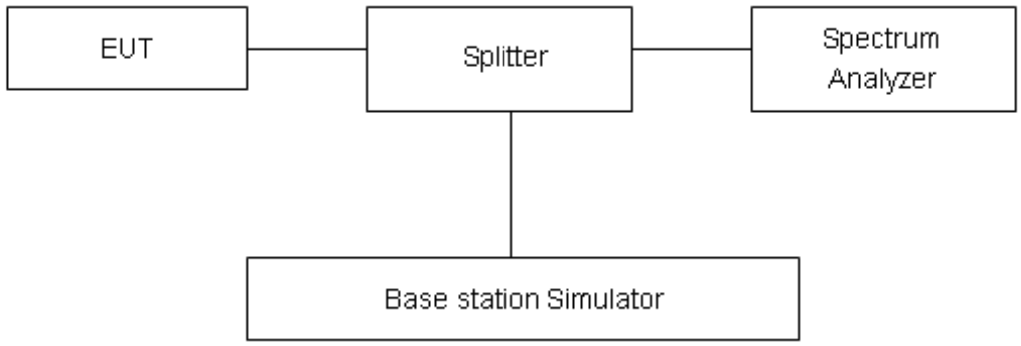
Ambient condition

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

Methods of Measurement

Measure the total peak power and record as 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

According to the Sec. 22.913(d), The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

Measurement Uncertainty

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

Test Results

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

5.5. Frequency Stability

Ambient condition

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

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from 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.

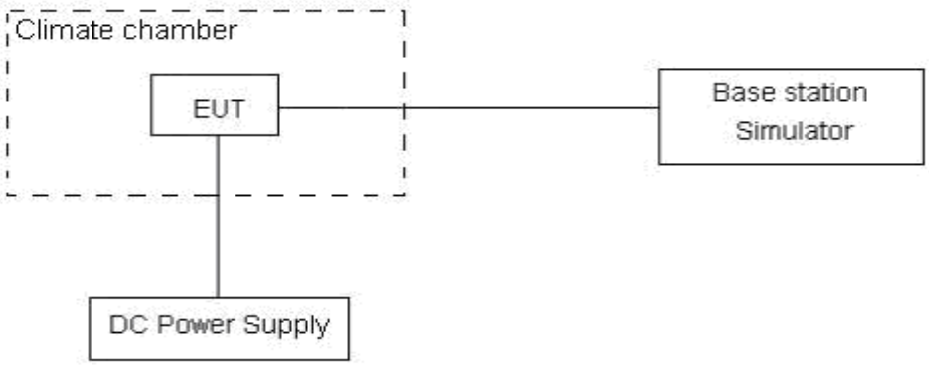
(3) Repeat the above measurements at 10°C increments from 0°C to +35°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements. Frequency Stability (Voltage Variation)

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

According to the Sec. 22.355, the frequency stability of the carrier shall be accurate to within 2.5 ppm of the received frequency for mobile stations.

Limits	≤ 2.5 ppm

Measurement Uncertainty

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

Test Results

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

5.6. Spurious Emissions at Antenna Terminals

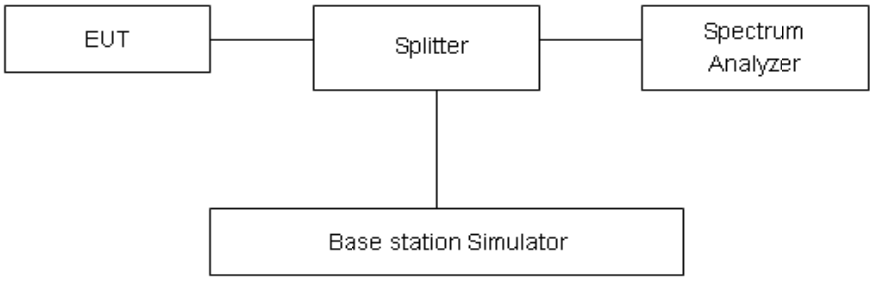
Ambient condition

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 are set to 100 kHz and VBW are set to 300 kHz for below 1G, RBW are set to 1MHz and VBW are set to 3MHz for above 1G, 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 22.917(a) 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

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

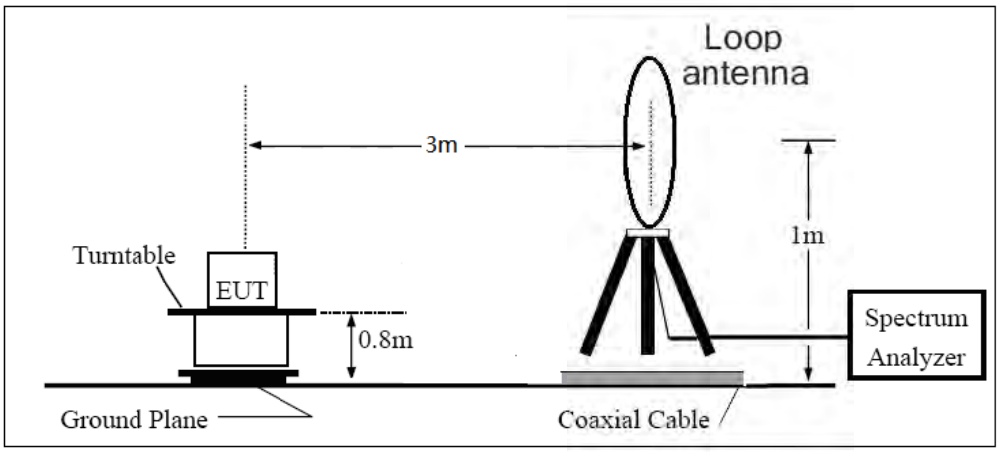
1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable 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=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:
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.

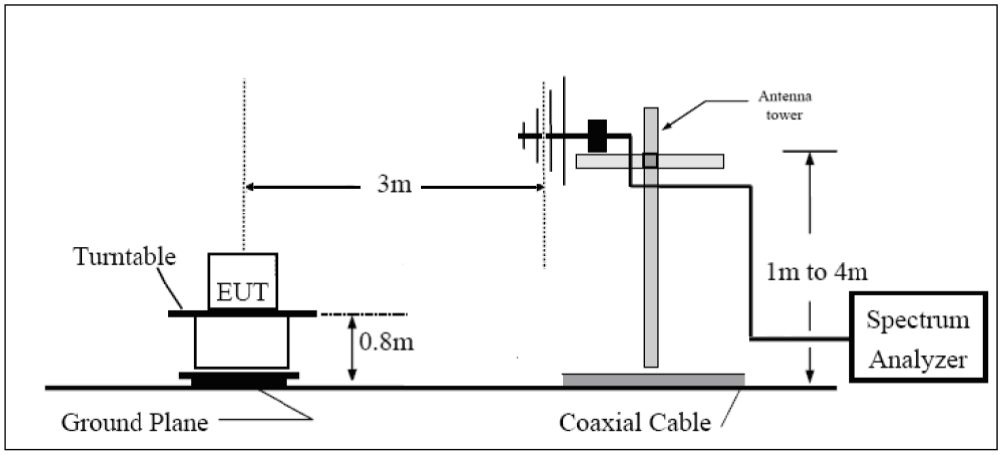
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

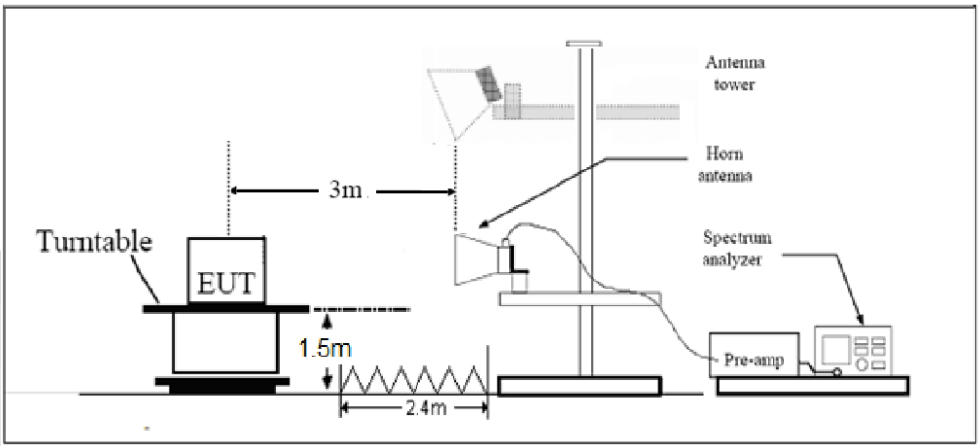
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 22.917(a) 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

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 Result

6.1. RF Power Output and Effective Radiated Power

GSM 850		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GSM(GMSK)	Results	32.48	32.62	32.68	28.13	28.27	28.33
GPRS (GMSK)	1TXslot	32.43	32.61	32.65	28.08	28.26	28.30
	2TXslots	29.45	29.80	29.94	25.10	25.45	25.59
	3TXslots	27.40	27.74	27.82	23.05	23.39	23.47
	4TXslots	25.86	26.25	26.28	21.51	21.90	21.93
EGPRS (8PSK)	1TXslot	26.95	27.05	27.07	22.60	22.70	22.72
	2TXslots	24.52	24.62	24.74	20.17	20.27	20.39
	3TXslots	21.92	22.25	22.08	17.57	17.90	17.73
	4TXslots	20.64	20.83	20.67	16.29	16.48	16.32

WCDMA Band V		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		24.41	24.56	24.11	20.06	20.21	19.76
AMR		24.39	24.68	24.13	20.04	20.33	19.78
HSDPA	Sub - Test 1	23.49	23.82	23.33	19.14	19.47	18.98
	Sub - Test 2	23.45	23.78	23.47	19.10	19.43	19.12
	Sub - Test 3	23.17	23.16	22.87	18.82	18.81	18.52
	Sub - Test 4	23.07	23.14	22.77	18.72	18.79	18.42
HSUPA	Sub - Test 1	23.67	23.78	23.09	19.32	19.43	18.74
	Sub - Test 2	21.63	21.80	21.25	17.28	17.45	16.90
	Sub - Test 3	22.41	22.70	22.31	18.06	18.35	17.96
	Sub - Test 4	21.45	21.72	21.13	17.10	17.37	16.78
	Sub - Test 5	23.37	23.60	23.07	19.02	19.25	18.72
DC-HSDPA	Sub - Test 1	23.59	23.82	23.31	19.24	19.47	18.96
	Sub - Test 2	23.49	23.66	23.39	19.14	19.31	19.04
	Sub - Test 3	22.99	23.42	22.83	18.64	19.07	18.48
	Sub - Test 4	23.15	23.28	22.69	18.80	18.93	18.34

LTE Band 5				Maximum Output Power(dBm)			ERP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20407 /824.7	20525 /836.5	20643 /848.3	20407 /824.7	20525 /836.5	20643 /848.3
1.4MHz	QPSK	1	0	24.21	24.26	24.57	19.86	19.91	20.22
		1	2	24.21	24.21	24.67	19.86	19.86	20.32
		1	5	24.23	24.32	24.44	19.88	19.97	20.09
		3	0	23.95	24.17	24.41	19.60	19.82	20.06
		3	2	23.98	24.24	24.42	19.63	19.89	20.07
		3	3	24.09	24.21	24.40	19.74	19.86	20.05
		6	0	23.18	23.27	23.58	18.83	18.92	19.23
	16QAM	1	0	23.38	23.50	23.76	19.03	19.15	19.41
		1	2	23.36	23.51	23.57	19.01	19.16	19.22
		1	5	23.49	23.63	23.72	19.14	19.28	19.37
		3	0	23.08	23.16	23.30	18.73	18.81	18.95
		3	2	23.15	23.20	23.50	18.80	18.85	19.15
		3	3	23.27	23.23	23.45	18.92	18.88	19.10
		6	0	22.15	22.31	22.54	17.80	17.96	18.19
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20415 /825.5	20525 /836.5	20635 /847.5	20415 /825.5	20525 /836.5	20635 /847.5
3MHz	QPSK	1	0	24.23	24.30	24.60	19.88	19.95	20.25
		1	7	24.19	24.24	24.71	19.84	19.89	20.36
		1	14	24.26	24.37	24.48	19.91	20.02	20.13
		8	0	23.05	23.29	23.54	18.70	18.94	19.19
		8	4	23.10	23.34	23.54	18.75	18.99	19.19
		8	7	23.19	23.32	23.50	18.84	18.97	19.15
		15	0	23.18	23.31	23.61	18.83	18.96	19.26
	16QAM	1	0	23.41	23.52	23.79	19.06	19.17	19.44
		1	7	23.39	23.51	23.61	19.04	19.16	19.26
		1	14	23.51	23.67	23.75	19.16	19.32	19.40
		8	0	22.19	22.29	22.42	17.84	17.94	18.07
		8	4	22.26	22.33	22.62	17.91	17.98	18.27
		8	7	22.37	22.35	22.58	18.02	18.00	18.23
		15	0	22.18	22.35	22.57	17.83	18.00	18.22
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20425	20525	20625	20425	20525	20625

				/826.5	/836.5	/846.5	/826.5	/836.5	/846.5
5MHz	QPSK	1	0	24.21	24.25	24.57	19.86	19.90	20.22
		1	13	24.18	24.24	24.69	19.83	19.89	20.34
		1	24	24.22	24.31	24.43	19.87	19.96	20.08
		12	0	23.03	23.25	23.51	18.68	18.90	19.16
		12	6	23.08	23.30	23.49	18.73	18.95	19.14
		12	13	23.16	23.31	23.47	18.81	18.96	19.12
		25	0	23.20	23.28	23.58	18.85	18.93	19.23
	16QAM	1	0	23.35	23.49	23.76	19.00	19.14	19.41
		1	13	23.37	23.50	23.59	19.02	19.15	19.24
		1	24	23.48	23.63	23.71	19.13	19.28	19.36
		12	0	22.17	22.28	22.40	17.82	17.93	18.05
		12	6	22.22	22.27	22.57	17.87	17.92	18.22
		12	13	22.35	22.31	22.55	18.00	17.96	18.20
		25	0	22.16	22.31	22.52	17.81	17.96	18.17
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)					
				20450 /829	20525 /836.5	20600 /844	20450 /829	20525 /836.5	20600 /844
10MHz	QPSK	1	0	24.18	24.21	24.54	19.83	19.86	20.19
		1	25	24.17	24.20	24.67	19.82	19.85	20.32
		1	49	24.20	24.30	24.40	19.85	19.95	20.05
		25	0	23.00	23.20	23.47	18.65	18.85	19.12
		25	13	23.06	23.26	23.46	18.71	18.91	19.11
		25	25	23.13	23.26	23.43	18.78	18.91	19.08
		50	0	23.17	23.23	23.54	18.82	18.88	19.19
	16QAM	1	0	23.41	23.45	23.71	19.06	19.10	19.36
		1	25	23.33	23.48	23.55	18.98	19.13	19.20
		1	49	23.46	23.60	23.69	19.11	19.25	19.34
		25	0	22.14	22.24	22.37	17.79	17.89	18.02
		25	13	22.19	22.25	22.54	17.84	17.90	18.19
		25	25	22.32	22.26	22.51	17.97	17.91	18.16
		50	0	22.14	22.27	22.49	17.79	17.92	18.14

LTE Band 26							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)	Verdict
1.4	26797	1	#0	QPSK	24.68	20.33	PASS
1.4	26797	1	#Mid	QPSK	24.72	20.37	PASS
1.4	26797	1	#Max	QPSK	24.67	20.32	PASS
1.4	26797	3	#0	QPSK	24.60	20.25	PASS
1.4	26797	3	#Mid	QPSK	24.63	20.28	PASS
1.4	26797	3	#Max	QPSK	24.50	20.15	PASS
1.4	26797	6	#0	QPSK	23.58	19.23	PASS
1.4	26797	1	#0	QAM16	23.66	19.31	PASS
1.4	26797	1	#Mid	QAM16	23.79	19.44	PASS
1.4	26797	1	#Max	QAM16	23.61	19.26	PASS
1.4	26797	3	#0	QAM16	23.73	19.38	PASS
1.4	26797	3	#Mid	QAM16	23.78	19.43	PASS
1.4	26797	3	#Max	QAM16	23.98	19.63	PASS
1.4	26797	6	#0	QAM16	22.61	18.26	PASS
1.4	26915	1	#0	QPSK	24.99	20.64	PASS
1.4	26915	1	#Mid	QPSK	25.02	20.67	PASS
1.4	26915	1	#Max	QPSK	24.94	20.59	PASS
1.4	26915	3	#0	QPSK	25.03	20.68	PASS
1.4	26915	3	#Mid	QPSK	25.02	20.67	PASS
1.4	26915	3	#Max	QPSK	25.13	20.78	PASS
1.4	26915	6	#0	QPSK	24.09	19.74	PASS
1.4	26915	1	#0	QAM16	24.19	19.84	PASS
1.4	26915	1	#Mid	QAM16	24.38	20.03	PASS
1.4	26915	1	#Max	QAM16	24.23	19.88	PASS
1.4	26915	3	#0	QAM16	24.08	19.73	PASS
1.4	26915	3	#Mid	QAM16	24.06	19.71	PASS
1.4	26915	3	#Max	QAM16	24.09	19.74	PASS
1.4	26915	6	#0	QAM16	23.10	18.75	PASS
1.4	27033	1	#0	QPSK	25.03	20.68	PASS
1.4	27033	1	#Mid	QPSK	24.85	20.50	PASS
1.4	27033	1	#Max	QPSK	24.62	20.27	PASS
1.4	27033	3	#0	QPSK	24.83	20.48	PASS
1.4	27033	3	#Mid	QPSK	24.81	20.46	PASS
1.4	27033	3	#Max	QPSK	24.57	20.22	PASS
1.4	27033	6	#0	QPSK	24.08	19.73	PASS
1.4	27033	1	#0	QAM16	23.86	19.51	PASS
1.4	27033	1	#Mid	QAM16	23.72	19.37	PASS
1.4	27033	1	#Max	QAM16	23.55	19.20	PASS
1.4	27033	3	#0	QAM16	23.86	19.51	PASS
1.4	27033	3	#Mid	QAM16	23.86	19.51	PASS

1.4	27033	3	#Max	QAM16	23.66	19.31	PASS
1.4	27033	6	#0	QAM16	23.09	18.74	PASS
3	26805	1	#0	QPSK	24.42	20.07	PASS
3	26805	1	#Mid	QPSK	24.56	20.21	PASS
3	26805	1	#Max	QPSK	24.55	20.20	PASS
3	26805	8	#0	QPSK	23.69	19.34	PASS
3	26805	8	#Mid	QPSK	23.69	19.34	PASS
3	26805	8	#Max	QPSK	23.68	19.33	PASS
3	26805	15	#0	QPSK	23.75	19.40	PASS
3	26805	1	#0	QAM16	24.08	19.73	PASS
3	26805	1	#Mid	QAM16	24.30	19.95	PASS
3	26805	1	#Max	QAM16	24.24	19.89	PASS
3	26805	8	#0	QAM16	23.43	19.08	PASS
3	26805	8	#Mid	QAM16	23.43	19.08	PASS
3	26805	8	#Max	QAM16	23.29	18.94	PASS
3	26805	15	#0	QAM16	23.36	19.01	PASS
3	26915	1	#0	QPSK	24.43	20.08	PASS
3	26915	1	#Mid	QPSK	24.32	19.97	PASS
3	26915	1	#Max	QPSK	24.13	19.78	PASS
3	26915	8	#0	QPSK	23.47	19.12	PASS
3	26915	8	#Mid	QPSK	23.52	19.17	PASS
3	26915	8	#Max	QPSK	23.36	19.01	PASS
3	26915	15	#0	QPSK	23.40	19.05	PASS
3	26915	1	#0	QAM16	23.66	19.31	PASS
3	26915	1	#Mid	QAM16	23.49	19.14	PASS
3	26915	1	#Max	QAM16	23.31	18.96	PASS
3	26915	8	#0	QAM16	22.46	18.11	PASS
3	26915	8	#Mid	QAM16	22.47	18.12	PASS
3	26915	8	#Max	QAM16	22.27	17.92	PASS
3	26915	15	#0	QAM16	22.32	17.97	PASS
3	27025	1	#0	QPSK	23.90	19.55	PASS
3	27025	1	#Mid	QPSK	23.85	19.50	PASS
3	27025	1	#Max	QPSK	23.60	19.25	PASS
3	27025	8	#0	QPSK	22.83	18.48	PASS
3	27025	8	#Mid	QPSK	22.83	18.48	PASS
3	27025	8	#Max	QPSK	22.78	18.43	PASS
3	27025	15	#0	QPSK	22.83	18.48	PASS
3	27025	1	#0	QAM16	22.71	18.36	PASS
3	27025	1	#Mid	QAM16	22.73	18.38	PASS
3	27025	1	#Max	QAM16	22.52	18.17	PASS
3	27025	8	#0	QAM16	21.84	17.49	PASS
3	27025	8	#Mid	QAM16	21.83	17.48	PASS
3	27025	8	#Max	QAM16	21.83	17.48	PASS

3	27025	15	#0	QAM16	21.81	17.46	PASS
5	26815	1	#0	QPSK	25.31	20.96	PASS
5	26815	1	#Mid	QPSK	25.14	20.79	PASS
5	26815	1	#Max	QPSK	24.89	20.54	PASS
5	26815	12	#0	QPSK	24.45	20.10	PASS
5	26815	12	#Mid	QPSK	24.53	20.18	PASS
5	26815	12	#Max	QPSK	24.14	19.79	PASS
5	26815	25	#0	QPSK	24.22	19.87	PASS
5	26815	1	#0	QAM16	24.62	20.27	PASS
5	26815	1	#Mid	QAM16	24.26	19.91	PASS
5	26815	1	#Max	QAM16	24.09	19.74	PASS
5	26815	12	#0	QAM16	23.41	19.06	PASS
5	26815	12	#Mid	QAM16	23.40	19.05	PASS
5	26815	12	#Max	QAM16	23.08	18.73	PASS
5	26815	25	#0	QAM16	23.27	18.92	PASS
5	26915	1	#0	QPSK	24.63	20.28	PASS
5	26915	1	#Mid	QPSK	24.31	19.96	PASS
5	26915	1	#Max	QPSK	23.99	19.64	PASS
5	26915	12	#0	QPSK	23.57	19.22	PASS
5	26915	12	#Mid	QPSK	23.57	19.22	PASS
5	26915	12	#Max	QPSK	23.24	18.89	PASS
5	26915	25	#0	QPSK	23.39	19.04	PASS
5	26915	1	#0	QAM16	23.84	19.49	PASS
5	26915	1	#Mid	QAM16	23.62	19.27	PASS
5	26915	1	#Max	QAM16	23.32	18.97	PASS
5	26915	12	#0	QAM16	22.54	18.19	PASS
5	26915	12	#Mid	QAM16	22.54	18.19	PASS
5	26915	12	#Max	QAM16	22.21	17.86	PASS
5	26915	25	#0	QAM16	22.36	18.01	PASS
5	27015	1	#0	QPSK	23.85	19.50	PASS
5	27015	1	#Mid	QPSK	23.69	19.34	PASS
5	27015	1	#Max	QPSK	23.34	18.99	PASS
5	27015	12	#0	QPSK	22.89	18.54	PASS
5	27015	12	#Mid	QPSK	22.84	18.49	PASS
5	27015	12	#Max	QPSK	22.79	18.44	PASS
5	27015	25	#0	QPSK	22.81	18.46	PASS
5	27015	1	#0	QAM16	23.19	18.84	PASS
5	27015	1	#Mid	QAM16	23.56	19.21	PASS
5	27015	1	#Max	QAM16	22.73	18.38	PASS
5	27015	12	#0	QAM16	21.90	17.55	PASS
5	27015	12	#Mid	QAM16	21.92	17.57	PASS
5	27015	12	#Max	QAM16	21.89	17.54	PASS
5	27015	25	#0	QAM16	21.81	17.46	PASS

10	26840	1	#0	QPSK	25.59	21.24	PASS
10	26840	1	#Mid	QPSK	24.85	20.50	PASS
10	26840	1	#Max	QPSK	24.47	20.12	PASS
10	26840	25	#0	QPSK	24.24	19.89	PASS
10	26840	25	#Mid	QPSK	24.29	19.94	PASS
10	26840	25	#Max	QPSK	23.67	19.32	PASS
10	26840	50	#0	QPSK	23.98	19.63	PASS
10	26840	1	#0	QAM16	24.69	20.34	PASS
10	26840	1	#Mid	QAM16	24.09	19.74	PASS
10	26840	1	#Max	QAM16	23.84	19.49	PASS
10	26840	25	#0	QAM16	23.30	18.95	PASS
10	26840	25	#Mid	QAM16	23.31	18.96	PASS
10	26840	25	#Max	QAM16	22.78	18.43	PASS
10	26840	50	#0	QAM16	23.04	18.69	PASS
10	26915	1	#0	QPSK	25.11	20.76	PASS
10	26915	1	#Mid	QPSK	24.27	19.92	PASS
10	26915	1	#Max	QPSK	24.02	19.67	PASS
10	26915	25	#0	QPSK	23.66	19.31	PASS
10	26915	25	#Mid	QPSK	23.65	19.30	PASS
10	26915	25	#Max	QPSK	23.32	18.97	PASS
10	26915	50	#0	QPSK	23.55	19.20	PASS
10	26915	1	#0	QAM16	24.26	19.91	PASS
10	26915	1	#Mid	QAM16	23.48	19.13	PASS
10	26915	1	#Max	QAM16	23.26	18.91	PASS
10	26915	25	#0	QAM16	22.64	18.29	PASS
10	26915	25	#Mid	QAM16	22.66	18.31	PASS
10	26915	25	#Max	QAM16	22.43	18.08	PASS
10	26915	50	#0	QAM16	22.46	18.11	PASS
10	26990	1	#0	QPSK	24.33	19.98	PASS
10	26990	1	#Mid	QPSK	23.86	19.51	PASS
10	26990	1	#Max	QPSK	23.64	19.29	PASS
10	26990	25	#0	QPSK	23.12	18.77	PASS
10	26990	25	#Mid	QPSK	23.12	18.77	PASS
10	26990	25	#Max	QPSK	22.92	18.57	PASS
10	26990	50	#0	QPSK	23.13	18.78	PASS
10	26990	1	#0	QAM16	23.55	19.20	PASS
10	26990	1	#Mid	QAM16	22.89	18.54	PASS
10	26990	1	#Max	QAM16	22.60	18.25	PASS
10	26990	25	#0	QAM16	22.17	17.82	PASS
10	26990	25	#Mid	QAM16	22.16	17.81	PASS
10	26990	25	#Max	QAM16	21.95	17.60	PASS
10	26990	50	#0	QAM16	22.13	17.78	PASS
15	26865	1	#0	QPSK	25.60	21.25	PASS

15	26865	1	#Mid	QPSK	24.72	20.37	PASS
15	26865	1	#Max	QPSK	24.12	19.77	PASS
15	26865	36	#0	QPSK	24.44	20.09	PASS
15	26865	36	#Mid	QPSK	24.49	20.14	PASS
15	26865	36	#Max	QPSK	23.15	18.80	PASS
15	26865	75	#0	QPSK	23.77	19.42	PASS
15	26865	1	#0	QAM16	24.97	20.62	PASS
15	26865	1	#Mid	QAM16	23.91	19.56	PASS
15	26865	1	#Max	QAM16	23.41	19.06	PASS
15	26865	36	#0	QAM16	23.42	19.07	PASS
15	26865	36	#Mid	QAM16	23.49	19.14	PASS
15	26865	36	#Max	QAM16	22.19	17.84	PASS
15	26865	75	#0	QAM16	22.80	18.45	PASS
15	26915	1	#0	QPSK	25.14	20.79	PASS
15	26915	1	#Mid	QPSK	24.05	19.70	PASS
15	26915	1	#Max	QPSK	23.85	19.50	PASS
15	26915	36	#0	QPSK	23.98	19.63	PASS
15	26915	36	#Mid	QPSK	23.79	19.44	PASS
15	26915	36	#Max	QPSK	22.80	18.45	PASS
15	26915	75	#0	QPSK	23.33	18.98	PASS
15	26915	1	#0	QAM16	24.31	19.96	PASS
15	26915	1	#Mid	QAM16	23.27	18.92	PASS
15	26915	1	#Max	QAM16	23.13	18.78	PASS
15	26915	36	#0	QAM16	22.87	18.52	PASS
15	26915	36	#Mid	QAM16	22.92	18.57	PASS
15	26915	36	#Max	QAM16	21.76	17.41	PASS
15	26915	75	#0	QAM16	22.26	17.91	PASS
15	26965	1	#0	QPSK	24.84	20.49	PASS
15	26965	1	#Mid	QPSK	23.99	19.64	PASS
15	26965	1	#Max	QPSK	23.87	19.52	PASS
15	26965	36	#0	QPSK	23.56	19.21	PASS
15	26965	36	#Mid	QPSK	23.49	19.14	PASS
15	26965	36	#Max	QPSK	22.77	18.42	PASS
15	26965	75	#0	QPSK	23.16	18.81	PASS
15	26965	1	#0	QAM16	23.83	19.48	PASS
15	26965	1	#Mid	QAM16	22.98	18.63	PASS
15	26965	1	#Max	QAM16	22.81	18.46	PASS
15	26965	36	#0	QAM16	22.57	18.22	PASS
15	26965	36	#Mid	QAM16	22.47	18.12	PASS
15	26965	36	#Max	QAM16	21.70	17.35	PASS
15	26965	75	#0	QAM16	22.20	17.85	PASS

6.2. Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GSM 850 (GMSK)	128	824.2	0.244	0.307
	190	836.6	0.247	0.313
	251	848.8	0.243	0.305
GPRS 850 (GMSK)	128	824.2	0.250	0.312
	190	836.6	0.244	0.307
	251	848.8	0.247	0.314
EGPRS 850 (8PSK)	128	824.2	0.250	0.316
	190	836.6	0.252	0.311
	251	848.8	0.247	0.307
WCDMA Band V (RMC)	4132	826.4	4.141	4.692
	4183	836.6	4.122	4.691
	4233	846.6	4.112	4.678

LTE Band 5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
1	QPSK	1.4	20407	824.7	0.266	0.390
			20525	836.5	0.268	0.407
			20643	848.3	0.277	0.407
		3	20415	825.5	0.337	0.477
			20525	836.5	0.354	0.496
			20635	847.5	0.341	0.455
		5	20425	826.5	0.476	0.673
			20525	836.5	0.469	0.690
			20625	846.5	0.480	0.702
		10	20450	829	0.692	1.063
			20525	836.5	0.689	1.001
			20600	844	0.727	0.969
	16QAM	1.4	20407	824.7	0.267	0.400
			20525	836.5	0.291	0.417
			20643	848.3	0.272	0.399

		3	20415	825.5	0.336	0.459
			20525	836.5	0.340	0.464
			20635	847.5	0.329	0.463
		5	20425	826.5	0.469	0.658
			20525	836.5	0.477	0.694
			20625	846.5	0.458	0.648
		10	20450	829	0.717	0.999
			20525	836.5	0.691	0.978
			20600	844	0.700	1.031
100%	QPSK	1.4	20407	824.7	1.103	1.287
			20525	836.5	1.099	1.267
			20643	848.3	1.094	1.291
		3	20415	825.5	2.697	2.932
			20525	836.5	2.705	3.004
			20635	847.5	2.703	2.974
		5	20425	826.5	4.522	4.958
			20525	836.5	4.515	4.928
			20625	846.5	4.507	4.886
		10	20450	829	8.988	9.865
			20525	836.5	8.973	9.782
			20600	844	8.985	9.851
	16QAM	1.4	20407	824.7	1.098	1.291
			20525	836.5	1.105	1.309
			20643	848.3	1.090	1.304
		3	20415	825.5	2.694	2.998
			20525	836.5	2.696	3.003
			20635	847.5	2.703	3.012
		5	20425	826.5	4.509	4.929
			20525	836.5	4.518	4.927
			20625	846.5	4.516	5.012
		10	20450	829	8.979	9.783
			20525	836.5	8.985	9.726
			20600	844	8.972	9.812

LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
1	QPSK	1.4	26797	824.7	0.265	0.396
			26915	836.5	0.267	0.410
			27033	848.5	0.275	0.423
		3	26805	825.5	0.346	0.490
			26915	836.5	0.322	0.461
			27025	847.5	0.327	0.467
		5	26815	826.5	0.470	0.690
			26915	836.5	0.463	0.679
			27015	846.5	0.466	0.664
		10	26840	829	0.743	0.986
			26915	836.5	0.693	0.955
			26990	844	0.705	1.025
		15	26865	831.5	1.061	1.516
			26915	836.5	1.095	1.571
			26965	841.5	1.063	1.601
	16QAM	1.4	26797	824.7	0.259	0.402
			26915	836.5	0.275	0.408
			27033	848.5	0.267	0.401
		3	26805	825.5	0.326	0.462
			26915	836.5	0.329	0.487
			27025	847.5	0.325	0.469
		5	26815	826.5	0.476	0.664
			26915	836.5	0.486	0.719
			27015	846.5	0.469	0.675
		10	26840	829	0.668	0.919
			26915	836.5	0.706	0.940
			26990	844	0.709	1.003
		15	26865	831.5	1.057	1.461
			26915	836.5	1.025	1.504
			26965	841.5	1.066	1.499
100%	QPSK	1.4	26797	824.7	1.096	1.273

			26915	836.5	1.095	1.293
			27033	848.3	1.102	1.274
		3	26805	825.5	2.701	3.000
			26915	836.5	2.707	2.980
			27025	847.5	2.704	2.993
		5	26815	826.5	4.542	5.000
			26915	836.5	4.520	4.944
			27015	846.5	4.508	5.010
		10	26840	829	8.986	9.917
			26915	836.5	8.983	9.759
			26990	844	8.971	9.783
		15	26865	831.5	13.458	14.630
			26915	836.5	13.486	14.696
			26965	841.5	13.454	14.754
	16QAM	1.4	26797	824.7	1.105	1.300
			26915	836.5	1.095	1.272
			27033	848.3	1.102	1.305
		3	26805	825.5	2.699	2.965
			26915	836.5	2.703	2.971
			27025	847.5	2.703	2.981
		5	26815	826.5	4.519	4.963
			26915	836.5	4.517	5.013
			27015	846.5	4.535	5.008
		10	26840	829	8.955	9.800
			26915	836.5	8.995	9.696
			26990	844	8.964	9.736
		15	26865	831.5	13.449	14.650
			26915	836.5	13.442	14.578
			26965	841.5	13.427	14.628

GSM 850 CH-Low

GSM 850 GPRS CH-Low

GSM 850 CH-Middle

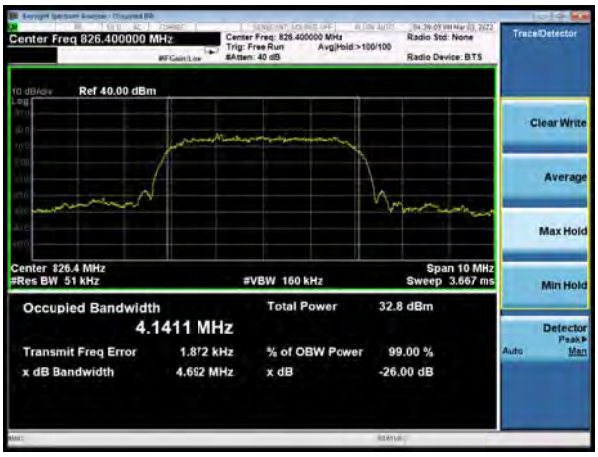
GSM 850 GPRS CH-Middle

GSM 850 CH-High

GSM 850 GPRS CH-High

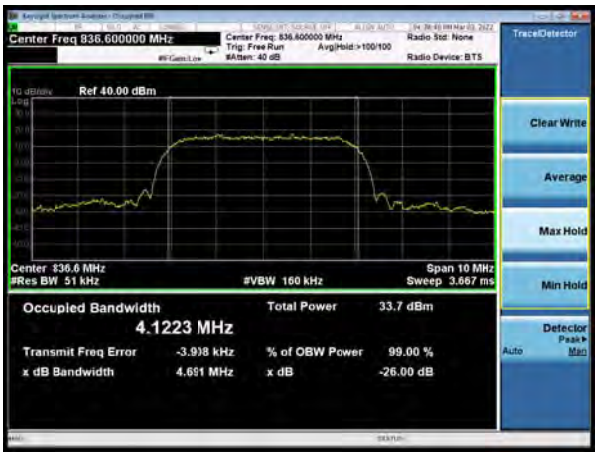
GSM 850 EGPRS CH-Low

WCDMA Band V CH-Low



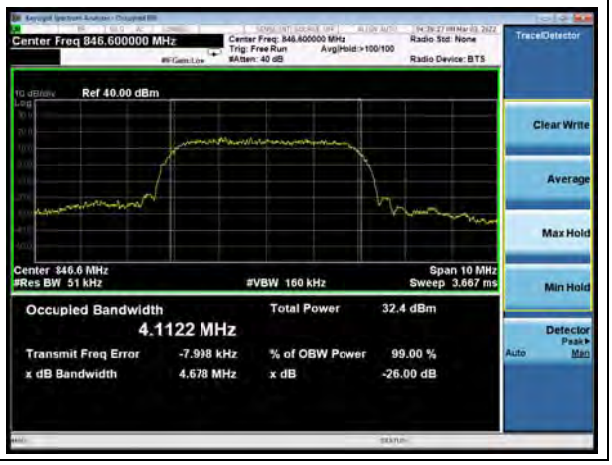
GSM 850 EGPRS CH-Middle

WCDMA Band V CH-Middle

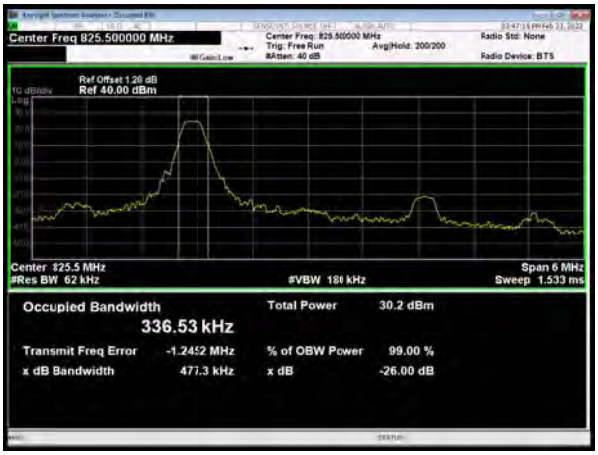
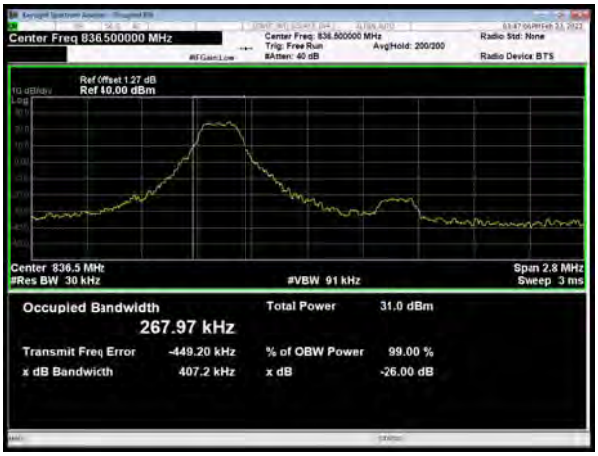
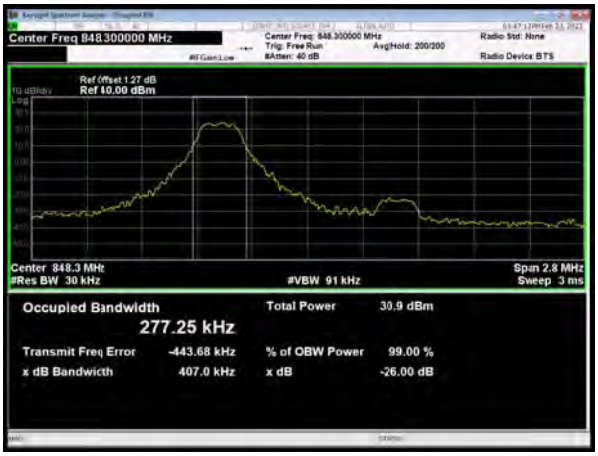
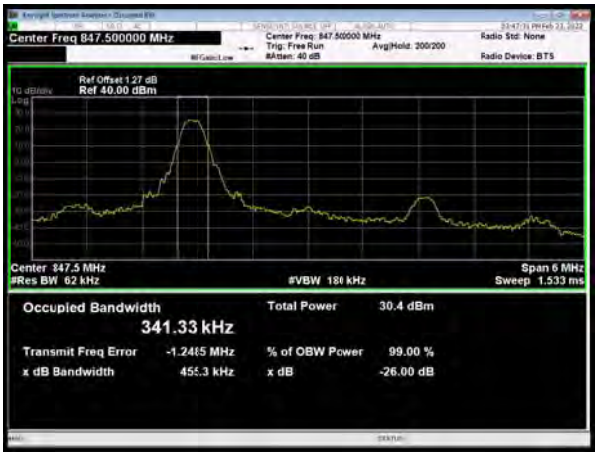


GSM 850 EGPRS CH-High

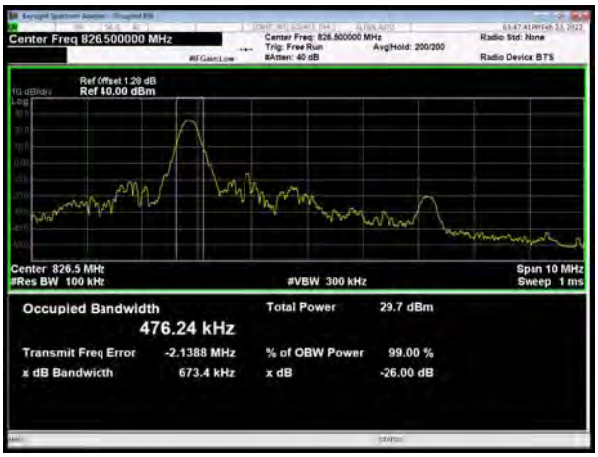
WCDMA Band V CH-High



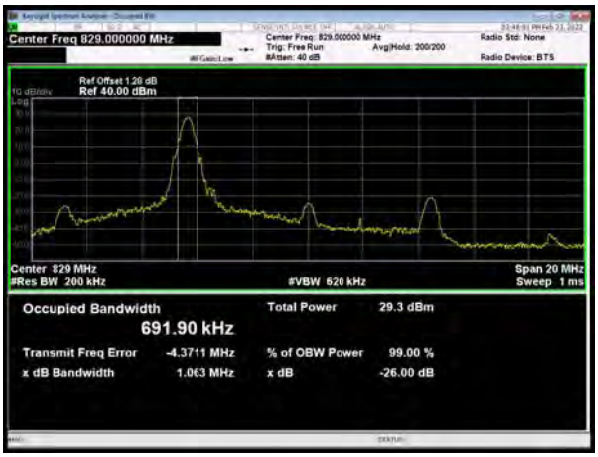
1 RB

LTE Band 5 QPSK 1.4MHz CH-Low	LTE Band 5 QPSK 3MHz CH-Low
	
LTE Band 5 QPSK 1.4MHz CH-Middle	LTE Band 5 QPSK 3MHz CH-Middle
	
LTE Band 5 QPSK 1.4MHz CH-High	LTE Band 5 QPSK 3MHz CH-High
	

LTE Band 5 QPSK 5MHz CH-Low

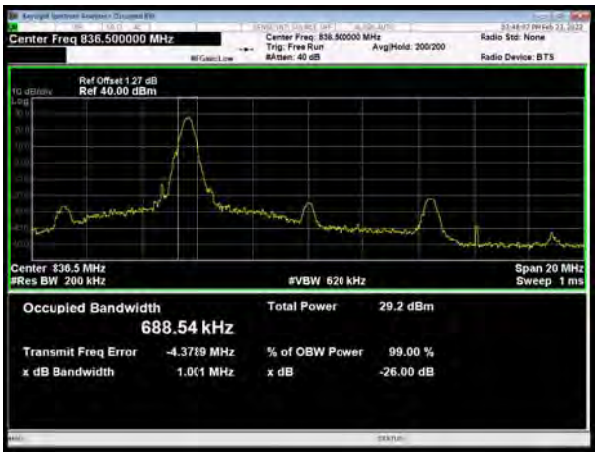


LTE Band 5 QPSK 10MHz CH-Low

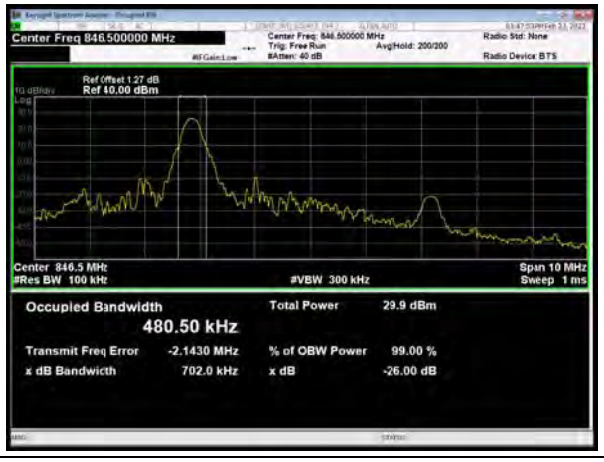


LTE Band 5 QPSK 5MHz CH-Middle

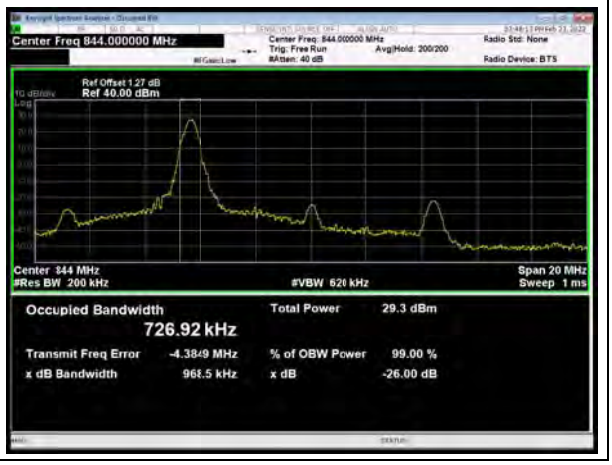
LTE Band 5 QPSK 10MHz CH-Middle



LTE Band 5 QPSK 5MHz CH-High



LTE Band 5 QPSK 10MHz CH-High



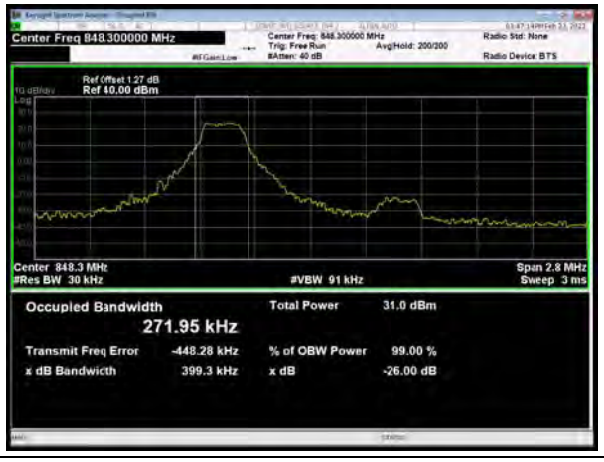
LTE Band 5 16QAM 1.4MHz CH-Low

LTE Band 5 16QAM 3MHz CH-Low

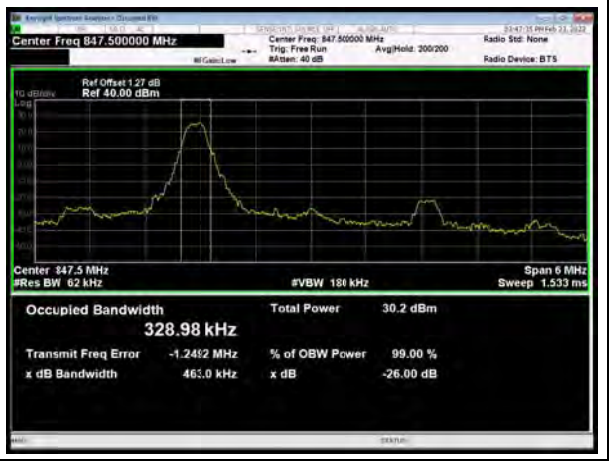
LTE Band 5 16QAM 1.4MHz CH-Middle

LTE Band 5 16QAM 3MHz CH-Middle

LTE Band 5 16QAM 1.4MHz CH-High

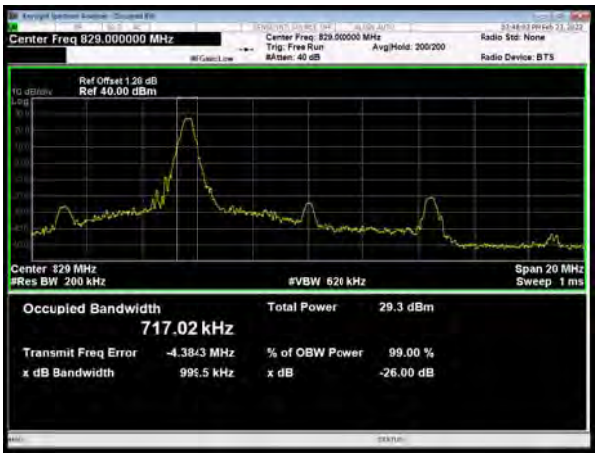


LTE Band 5 16QAM 3MHz CH-High

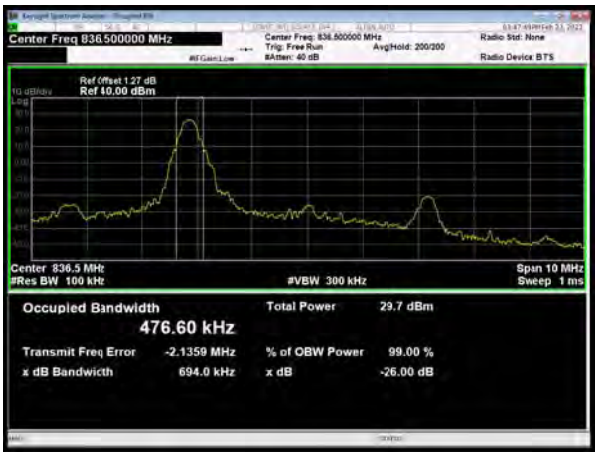


LTE Band 5 16QAM 5MHz CH-Low

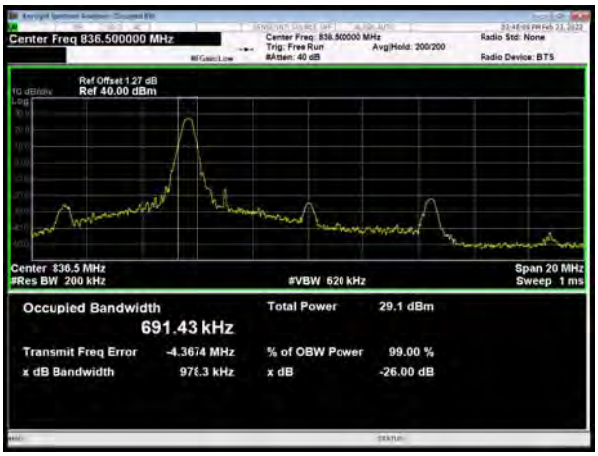
LTE Band 5 16QAM 10MHz CH-Low



LTE Band 5 16QAM 5MHz CH-Middle

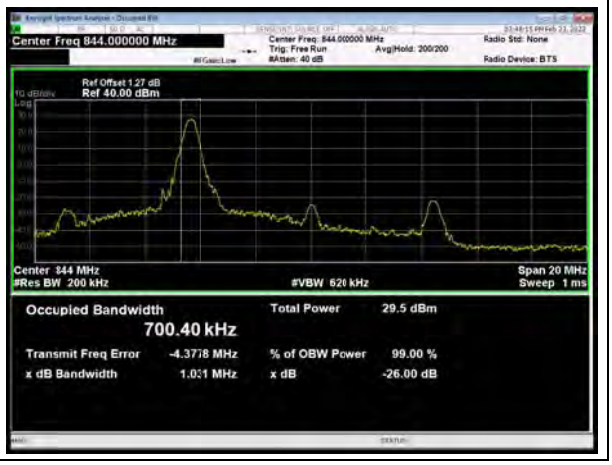


LTE Band 5 16QAM 10MHz CH-Middle



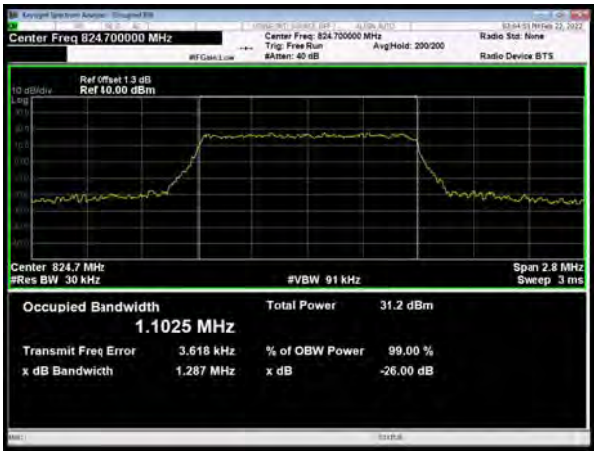
LTE Band 5 16QAM 5MHz CH-High

LTE Band 5 16QAM 10MHz CH-High

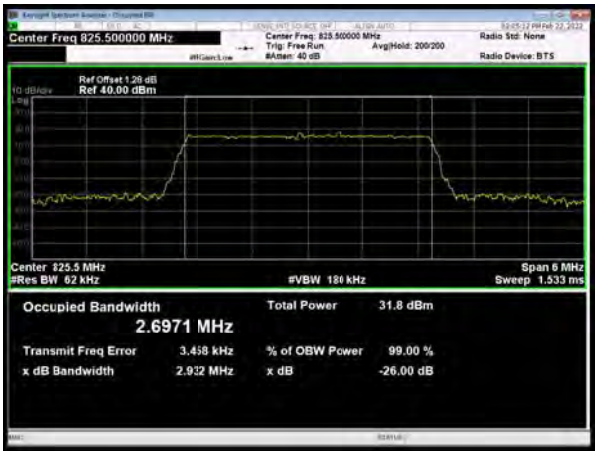


100% RB

LTE Band 5 QPSK 1.4MHz CH-Low

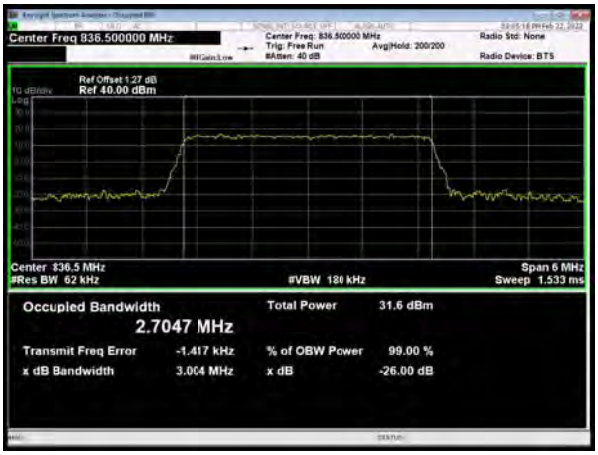


LTE Band 5 QPSK 3MHz CH-Low

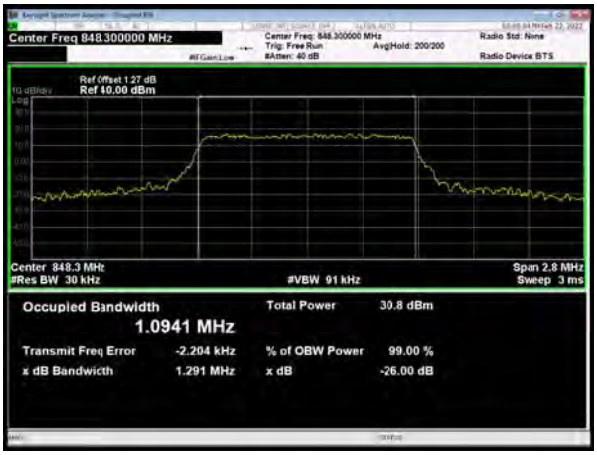


LTE Band 5 QPSK 1.4MHz CH-Middle

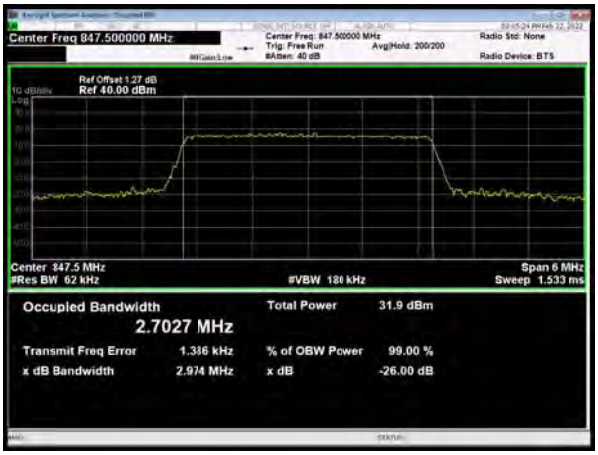
LTE Band 5 QPSK 3MHz CH-Middle



LTE Band 5 QPSK 1.4MHz CH-High



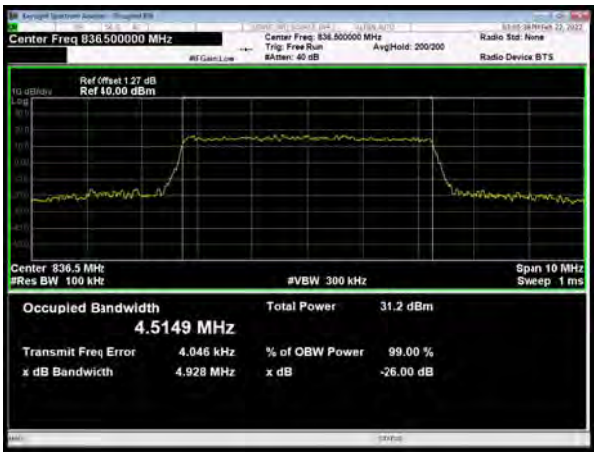
LTE Band 5 QPSK 3MHz CH-High



LTE Band 5 QPSK 5MHz CH-Low

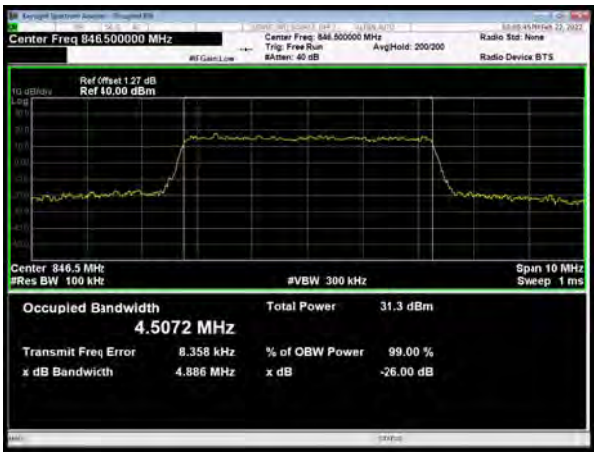
LTE Band 5 QPSK 10MHz CH-Low

LTE Band 5 QPSK 5MHz CH-Middle

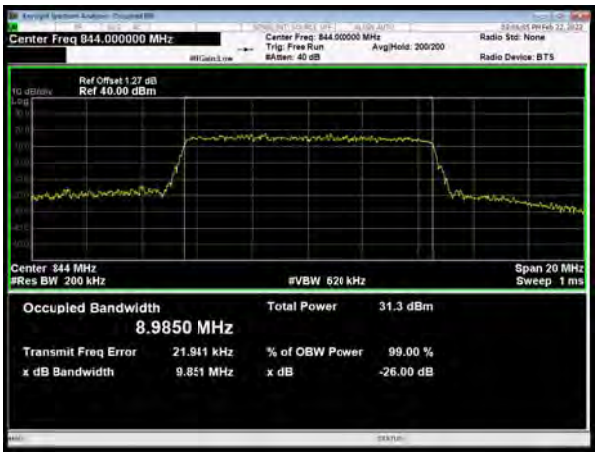


LTE Band 5 QPSK 10MHz CH-Middle

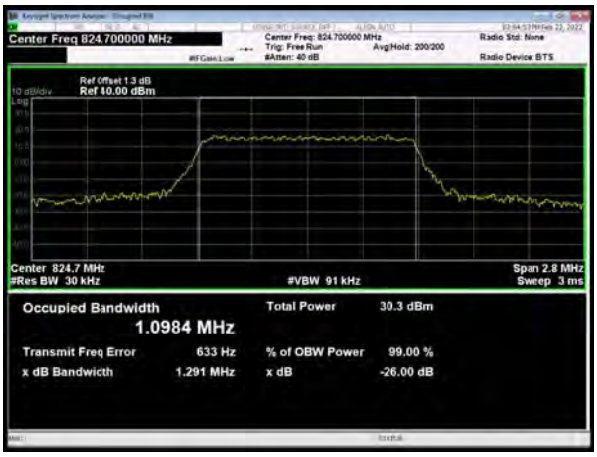
LTE Band 5 QPSK 5MHz CH-High



LTE Band 5 QPSK 10MHz CH-High



LTE Band 5 16QAM 1.4MHz CH-Low



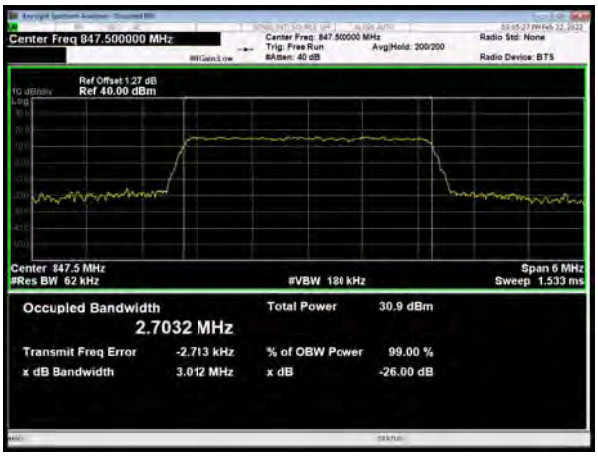
LTE Band 5 16QAM 3MHz CH-Low

LTE Band 5 16QAM 1.4MHz CH-Middle

LTE Band 5 16QAM 3MHz CH-Middle

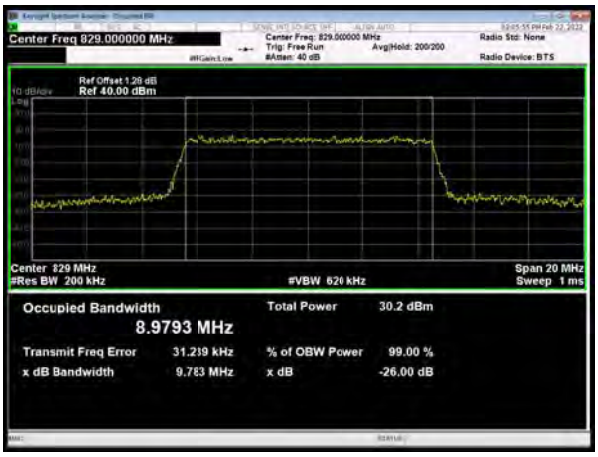
LTE Band 5 16QAM 1.4MHz CH-High

LTE Band 5 16QAM 3MHz CH-High



LTE Band 5 16QAM 5MHz CH-Low

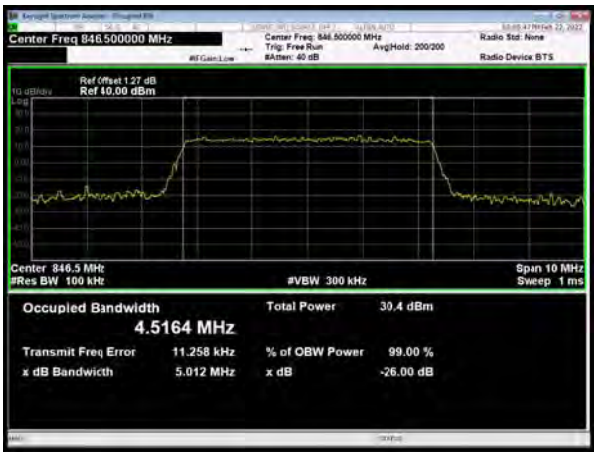
LTE Band 5 16QAM 10MHz CH-Low



LTE Band 5 16QAM 5MHz CH-Middle

LTE Band 5 16QAM 10MHz CH-Middle

LTE Band 5 16QAM 5MHz CH-High



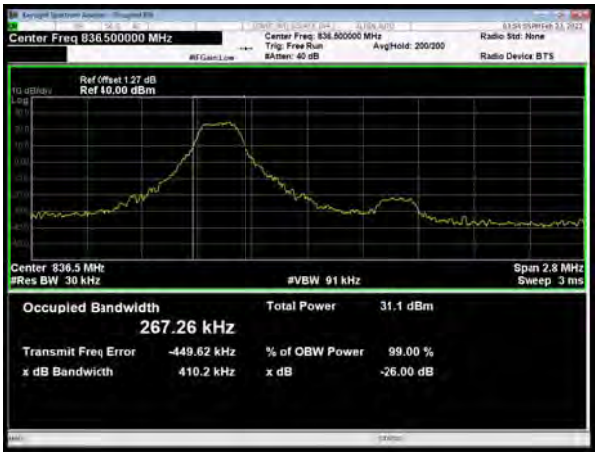
LTE Band 5 16QAM 10MHz CH-High

1 RB

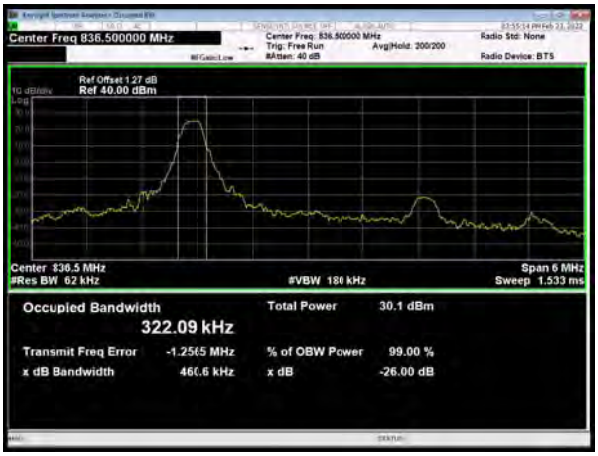
LTE Band 26 QPSK 1.4MHz CH-Low

LTE Band 26 QPSK 3MHz CH-Low

LTE Band 26 QPSK 1.4MHz CH-Middle

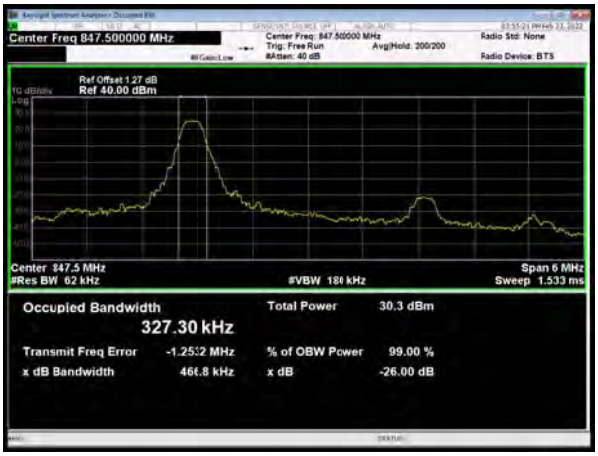


LTE Band 26 QPSK 3MHz CH-Middle



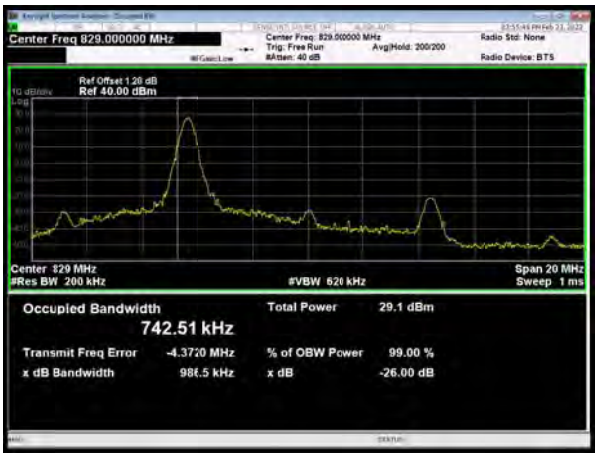
LTE Band 26 QPSK 1.4MHz CH-High

LTE Band 26 QPSK 3MHz CH-High

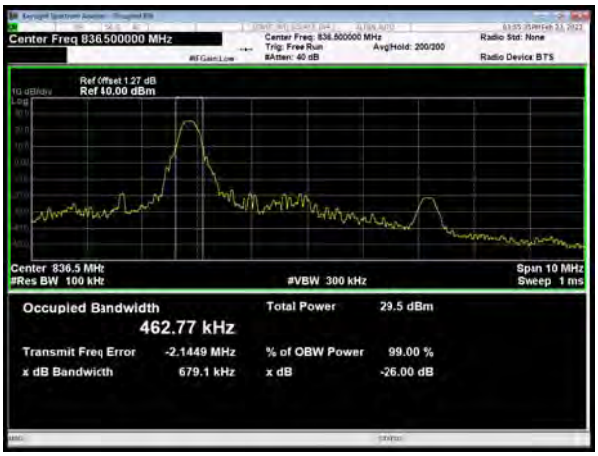


LTE Band 26 QPSK 5MHz CH-Low

LTE Band 26 QPSK 10MHz CH-Low

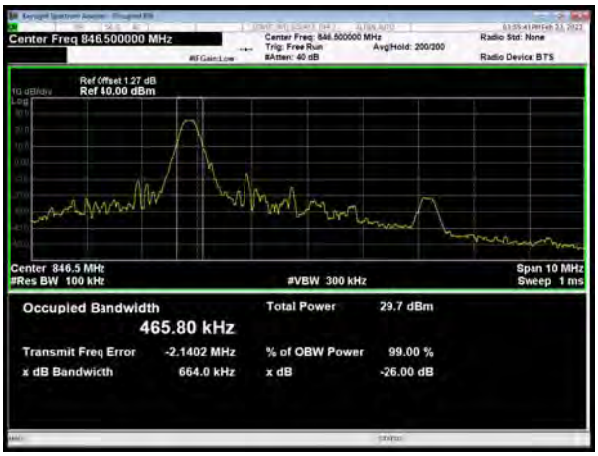


LTE Band 26 QPSK 5MHz CH-Middle

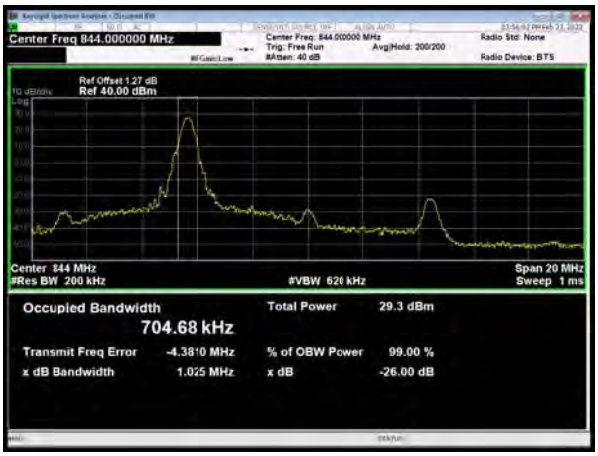


LTE Band 26 QPSK 10MHz CH-Middle

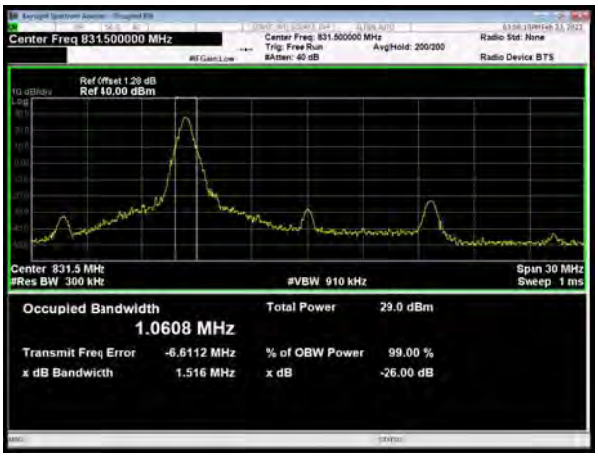
LTE Band 26 QPSK 5MHz CH-High



LTE Band 26 QPSK 10MHz CH-High

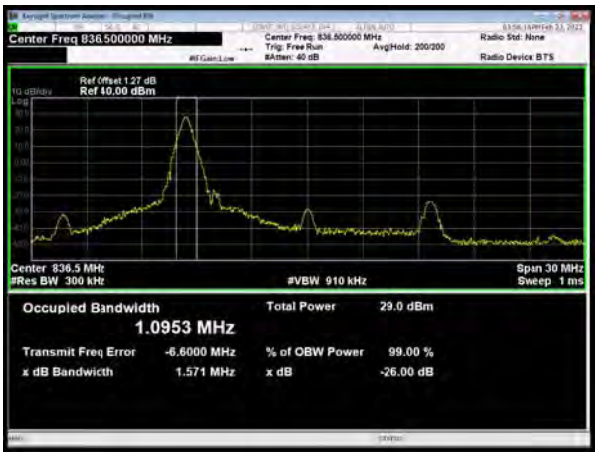


LTE Band 26 QPSK 15MHz CH-Low



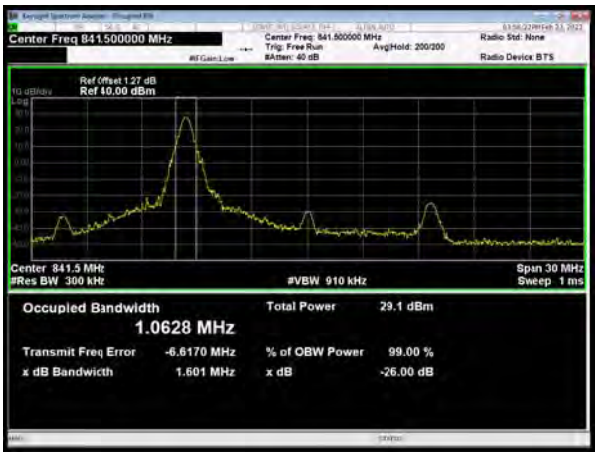
LTE Band 26 16QAM 1.4MHz CH-Low

LTE Band 26 QPSK 15MHz CH-Middle



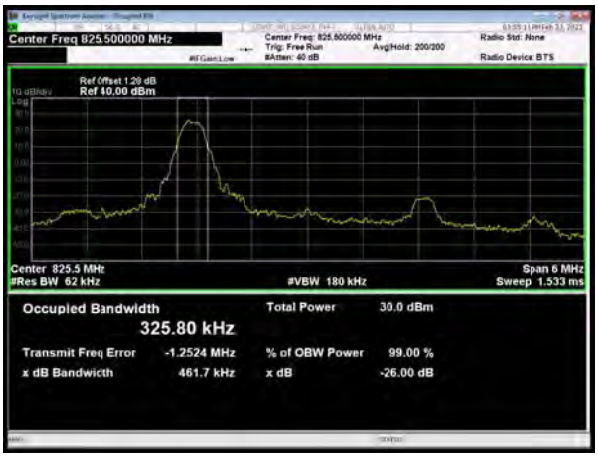
LTE Band 26 16QAM 1.4MHz CH-Middle

LTE Band 26 QPSK 15MHz CH-High



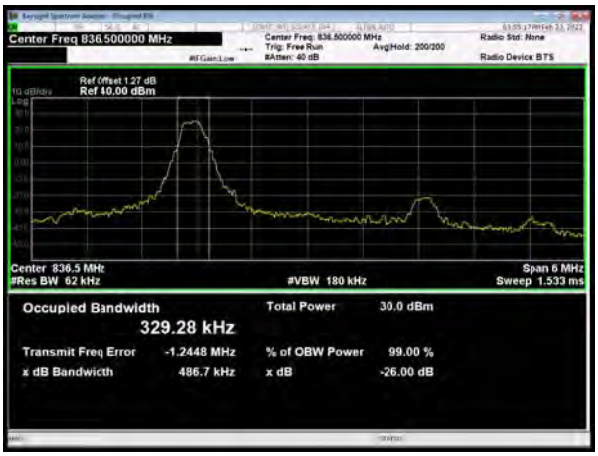
LTE Band 26 16QAM 1.4MHz CH-High

LTE Band 26 16QAM 3MHz CH-Low

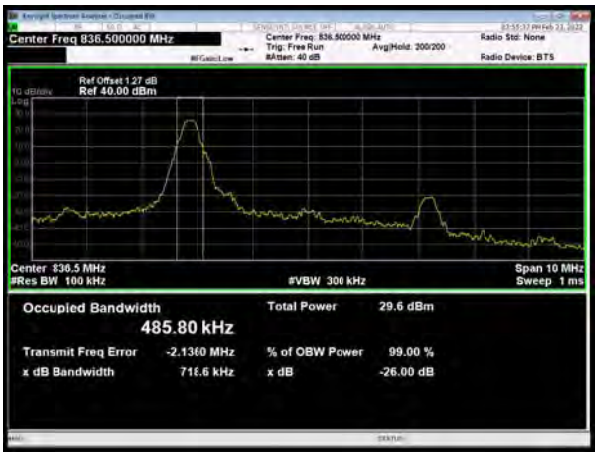


LTE Band 26 16QAM 5MHz CH-Low

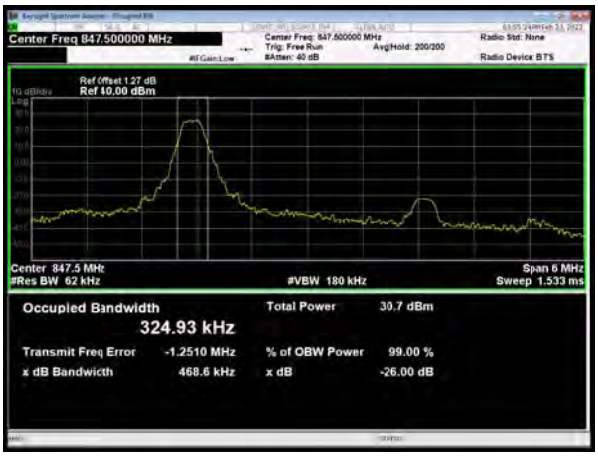
LTE Band 26 16QAM 3MHz CH-Middle



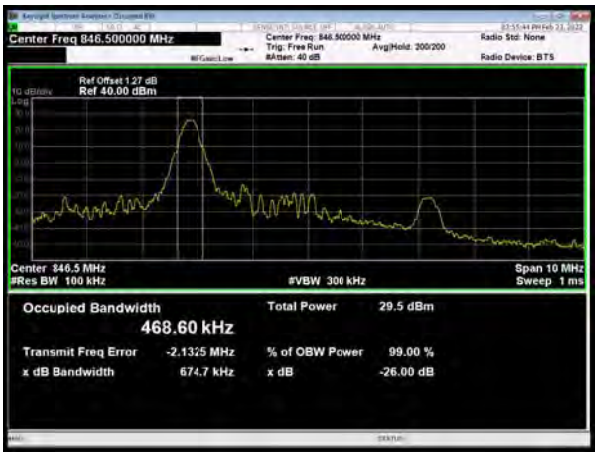
LTE Band 26 16QAM 5MHz CH-Middle



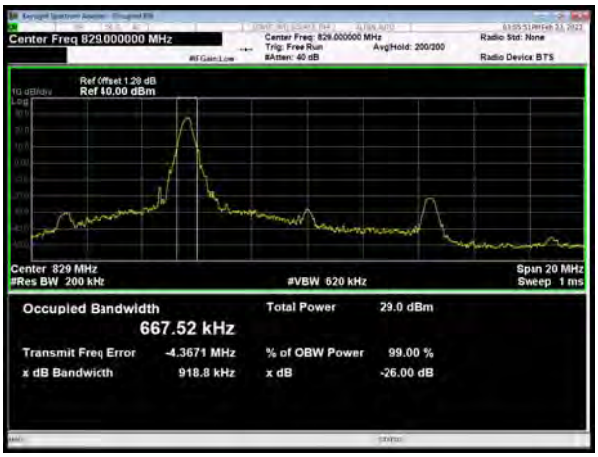
LTE Band 2616QAM 3MHz CH-High



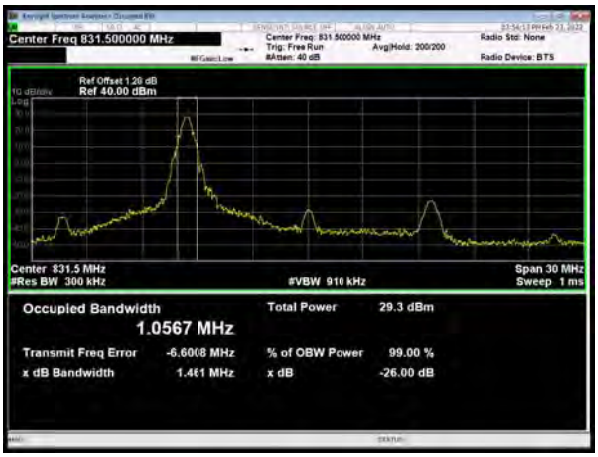
LTE Band 26 16QAM 5MHz CH-High



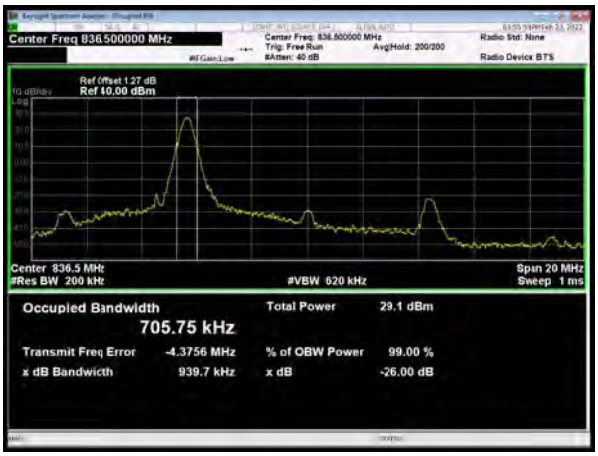
LTE Band 26 16QAM 10MHz CH-Low



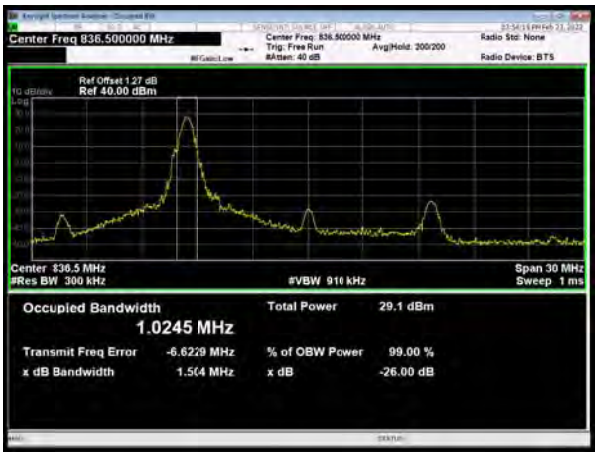
LTE Band 26 16QAM 15MHz CH-Low



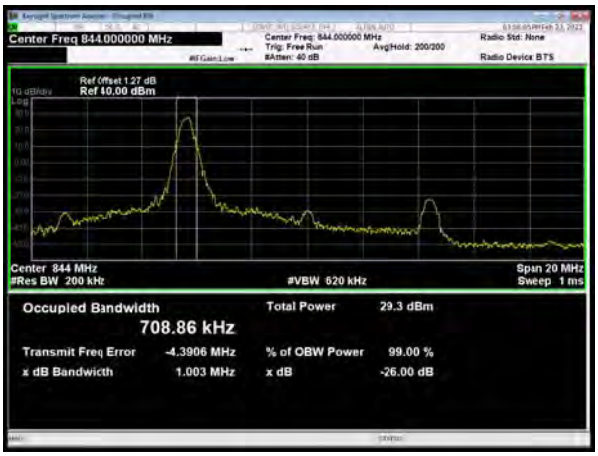
LTE Band 26 16QAM 10MHz CH-Middle



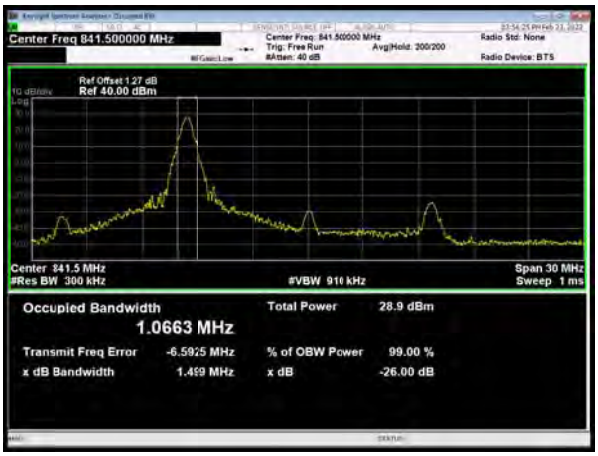
LTE Band 26 16QAM 15MHz CH-Middle



LTE Band 26 16QAM 10MHz CH-High

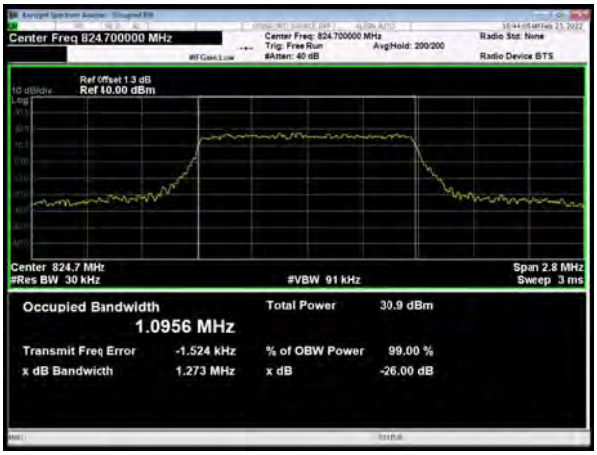


LTE Band 26 16QAM 15MHz CH-High

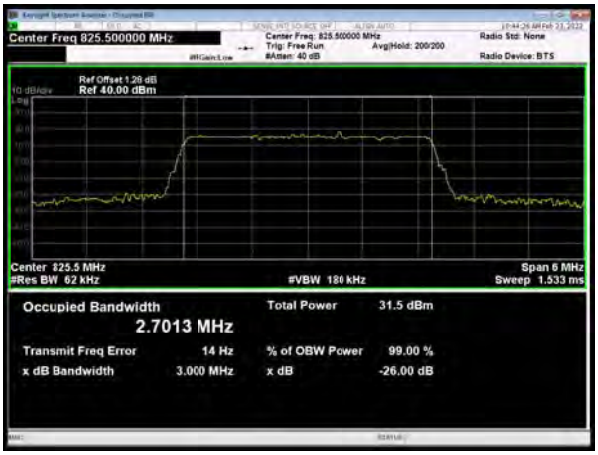


100% RB

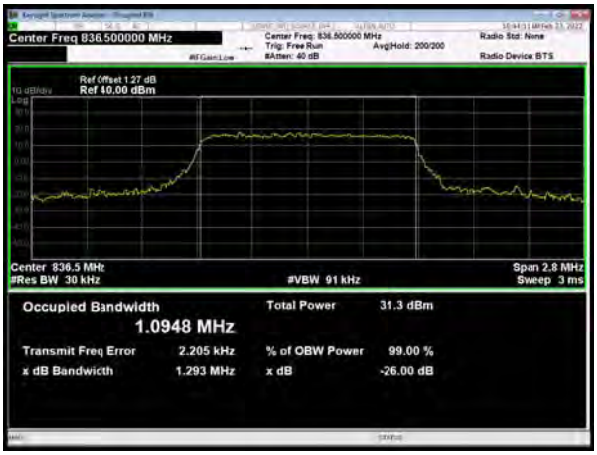
LTE Band 26 QPSK 1.4MHz CH-Low



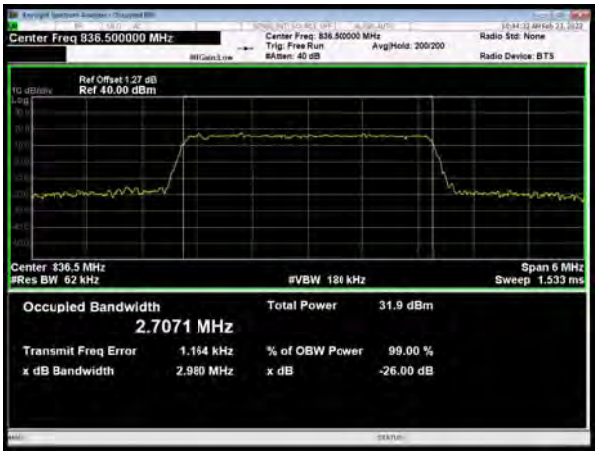
LTE Band 26 QPSK 3MHz CH-Low



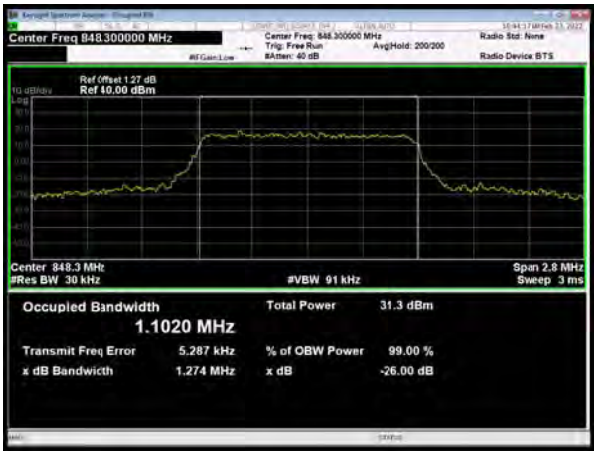
LTE Band 26 QPSK 1.4MHz CH-Middle



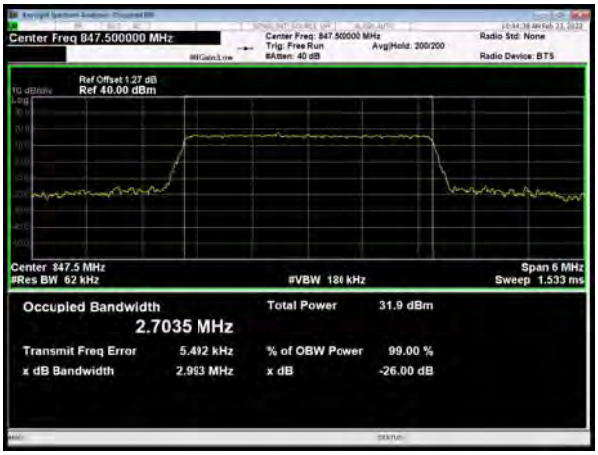
LTE Band 26 QPSK 3MHz CH-Middle



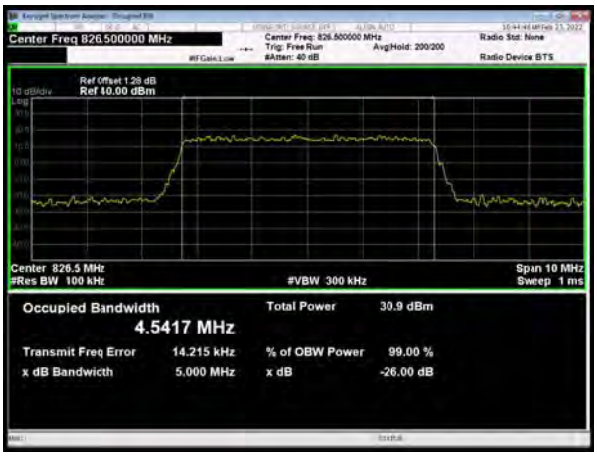
LTE Band 26 QPSK 1.4MHz CH-High



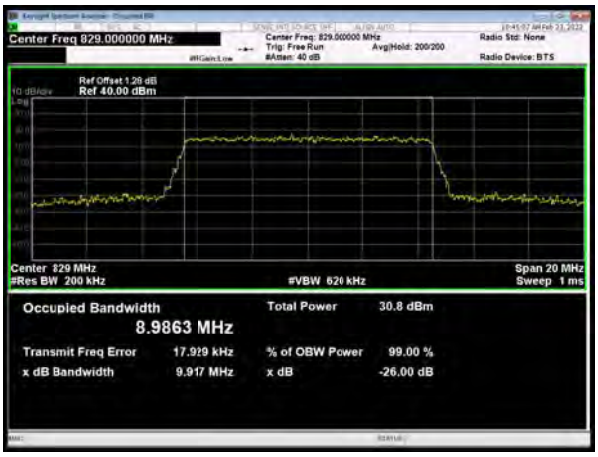
LTE Band 26 QPSK 3MHz CH-High



LTE Band 26 QPSK 5MHz CH-Low



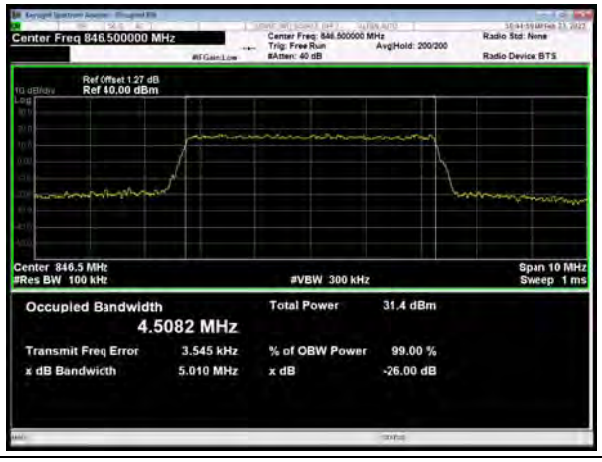
LTE Band 26 QPSK 10MHz CH-Low



LTE Band 26 QPSK 5MHz CH-Middle

LTE Band 26 QPSK 10MHz CH-Middle

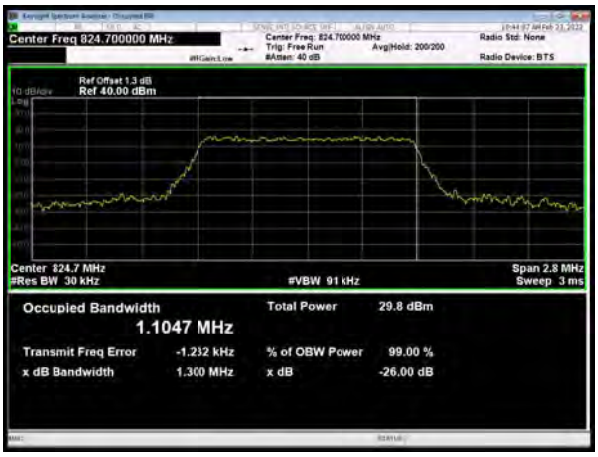
LTE Band 26 QPSK 5MHz CH-High



LTE Band 26 QPSK 10MHz CH-High

LTE Band 26 QPSK 15MHz CH-Low

LTE Band 26 16QAM 1.4MHz CH-Low

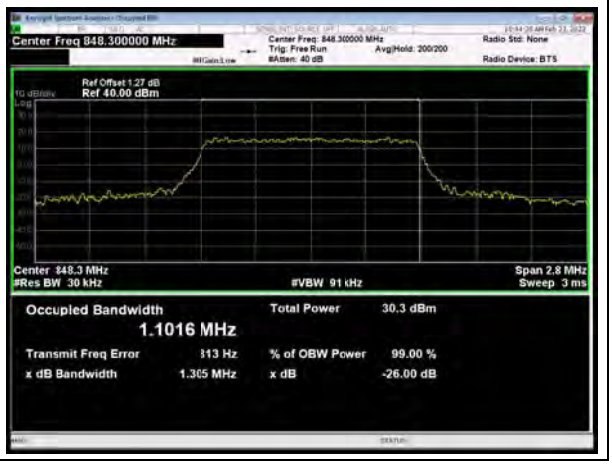


LTE Band 26 QPSK 15MHz CH-Middle

LTE Band 26 16QAM 1.4MHz CH-Middle

LTE Band 26 QPSK 15MHz CH-High

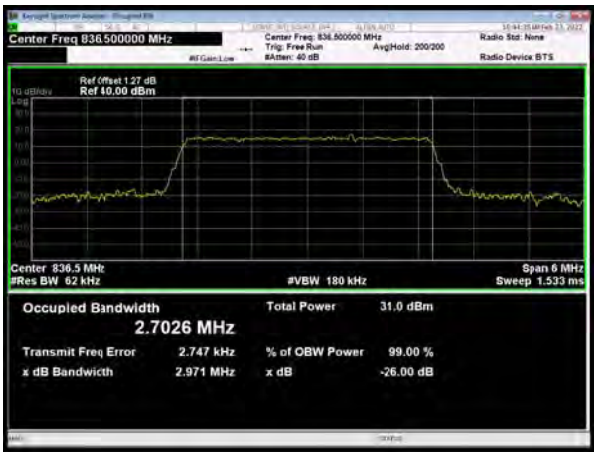
LTE Band 26 16QAM 1.4MHz CH-High



LTE Band 26 16QAM 3MHz CH-Low

LTE Band 26 16QAM 5MHz CH-Low

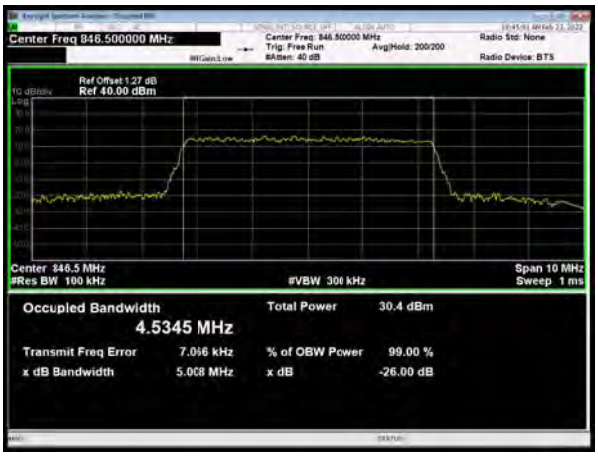
LTE Band 26 16QAM 3MHz CH-Middle



LTE Band 26 16QAM 5MHz CH-Middle

LTE Band 2616QAM 3MHz CH-High

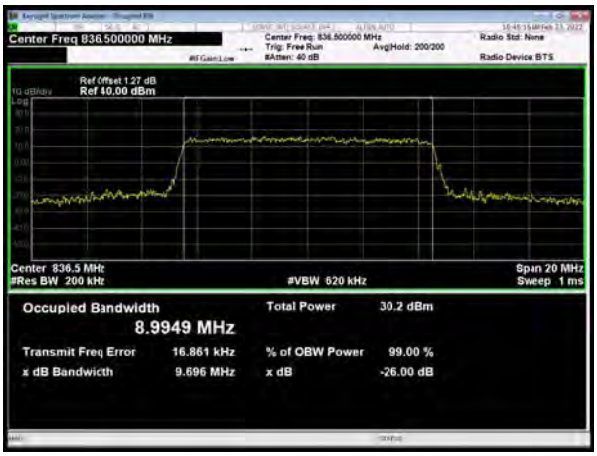
LTE Band 26 16QAM 5MHz CH-High



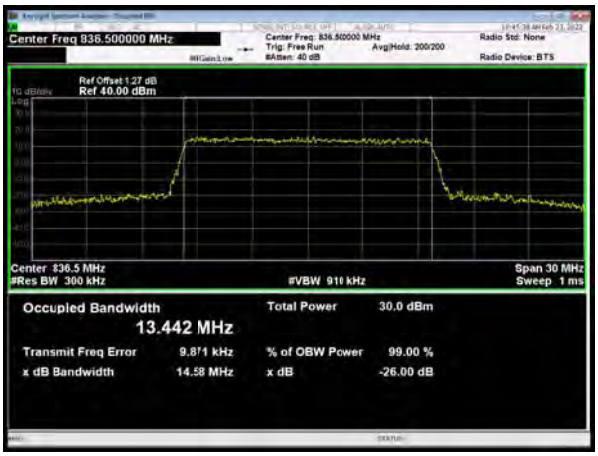
LTE Band 26 16QAM 10MHz CH-Low

LTE Band 26 16QAM 15MHz CH-Low

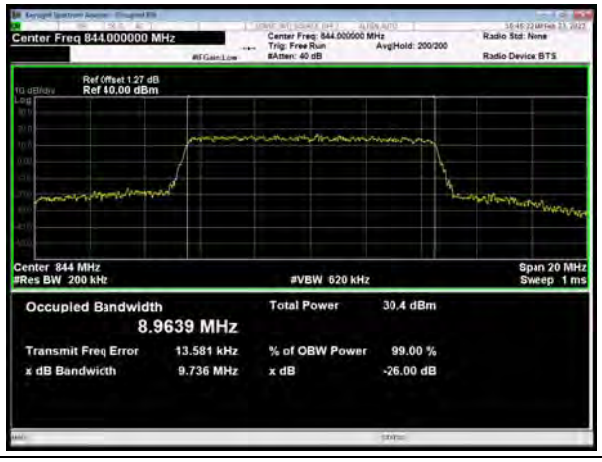
LTE Band 26 16QAM 10MHz CH-Middle



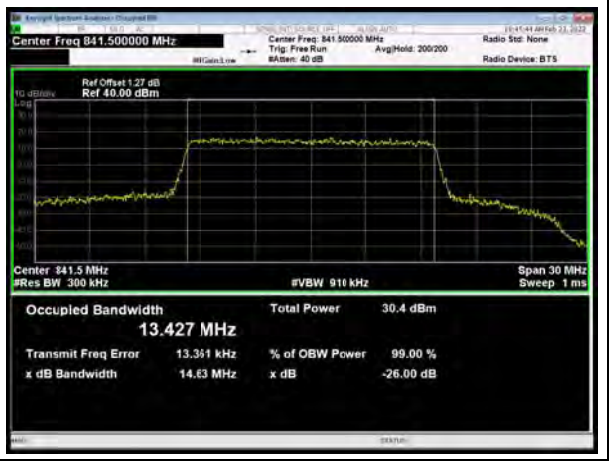
LTE Band 26 16QAM 15MHz CH-Middle



LTE Band 26 16QAM 10MHz CH-High



LTE Band 26 16QAM 15MHz CH-High



6.3. Band Edge Compliance

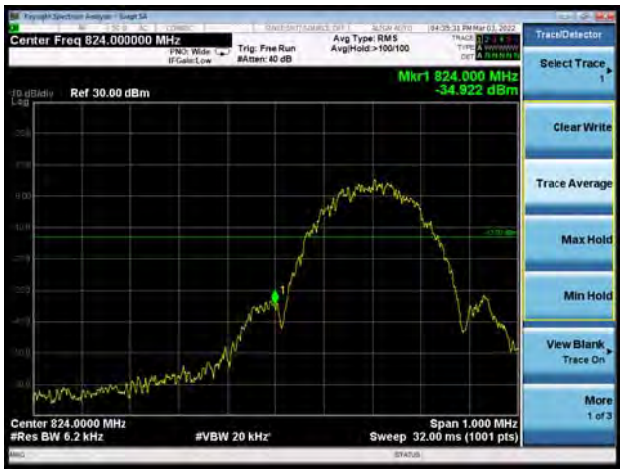
GSM 850 CH-Low

GSM 850 CH-High

GSM 850 GPRS CH-Low

GSM 850 GPRS CH-High

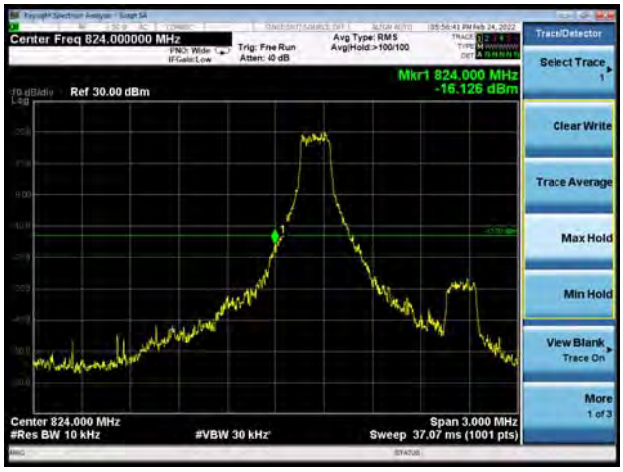
GSM 850 EGPRS CH-Low



GSM 850 EGPRS CH-High

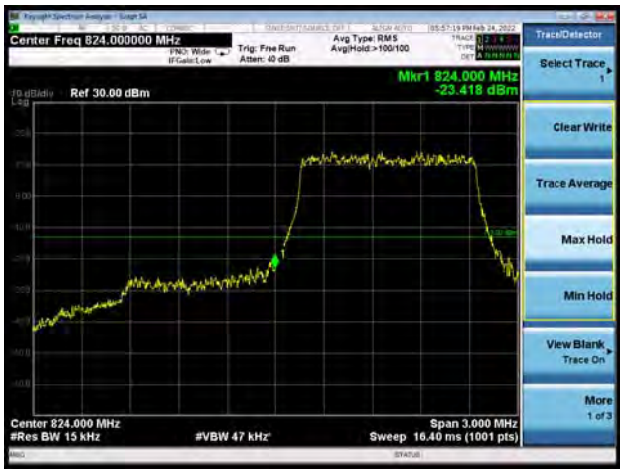
WCDMA Band V CH-Low	WCDMA Band V CH-High
	

LTE Band 5 QPSK 1.4MHz CH-Low 1RB

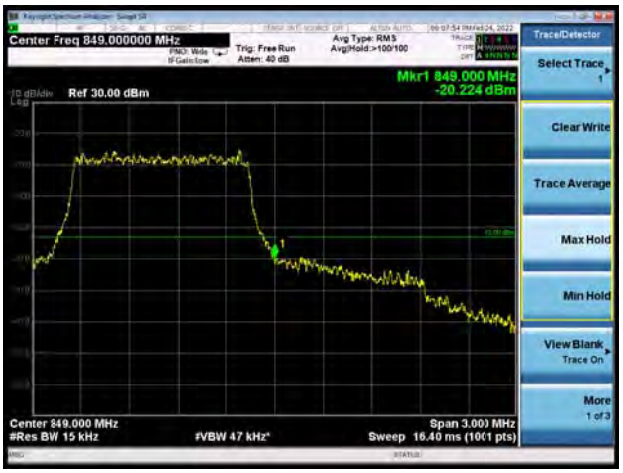


LTE Band 5 QPSK 1.4MHz CH-High 1RB

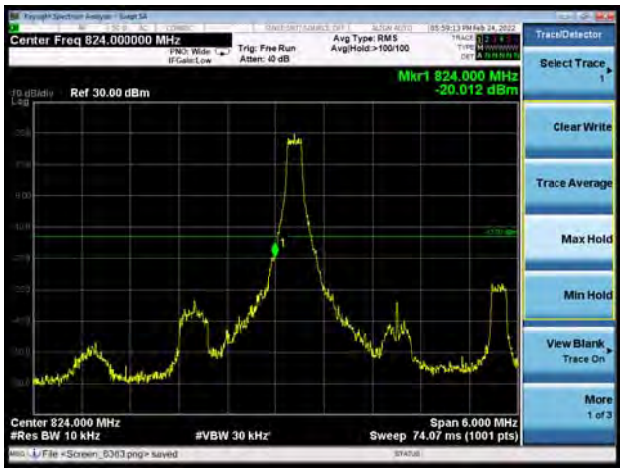
LTE Band 5 QPSK 1.4MHz CH-Low 100%RB



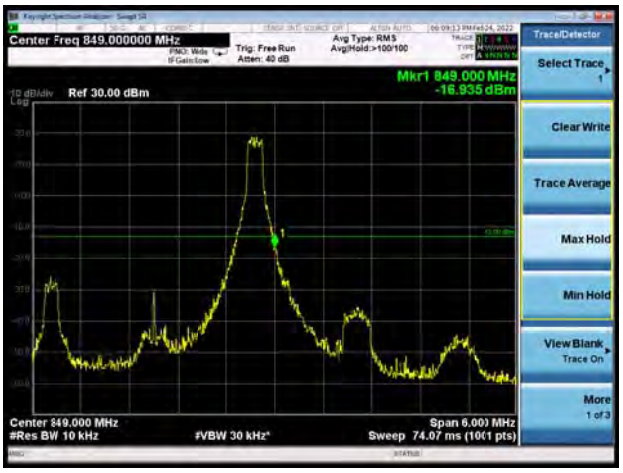
LTE Band 5 QPSK 1.4MHz CH-High 100%RB



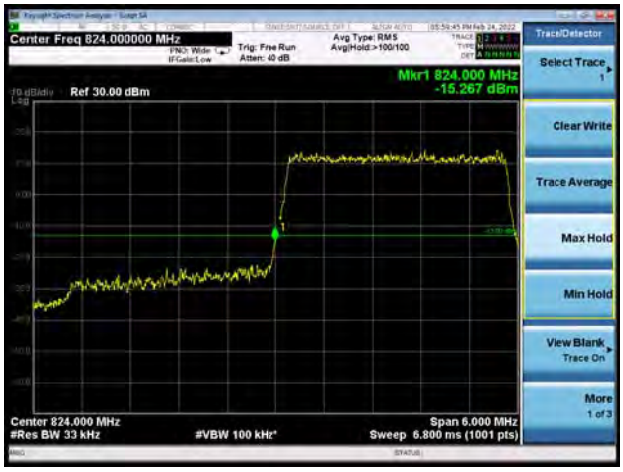
LTE Band 5 QPSK 3MHz CH-Low 1RB



LTE Band 5 QPSK 3MHz CH-High 1RB



LTE Band 5 QPSK 3MHz CH-Low 100%RB

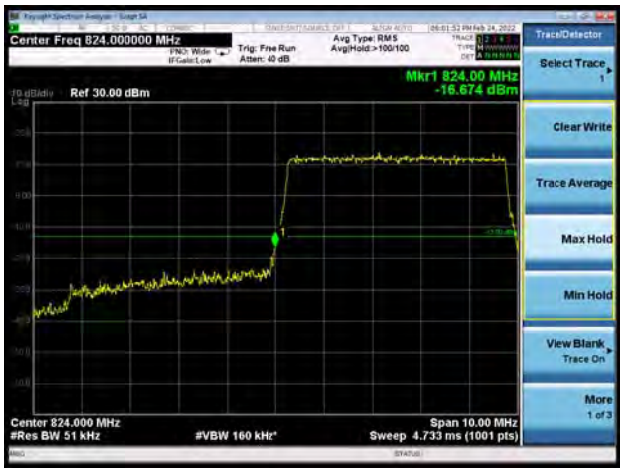


LTE Band 5 QPSK 3MHz CH-High 100%RB

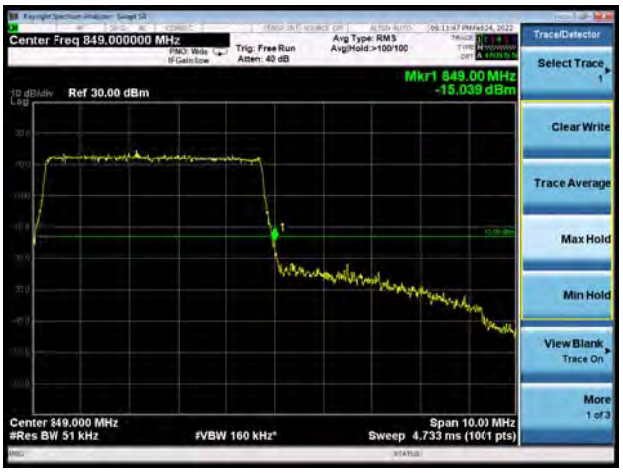
LTE Band 5 QPSK 5MHz CH-Low 1RB

LTE Band 5 QPSK 5MHz CH-High 1RB

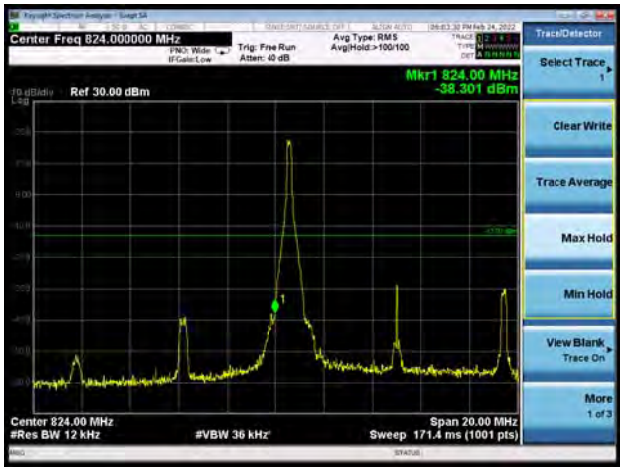
LTE Band 5 QPSK 5MHz CH-Low 100%RB



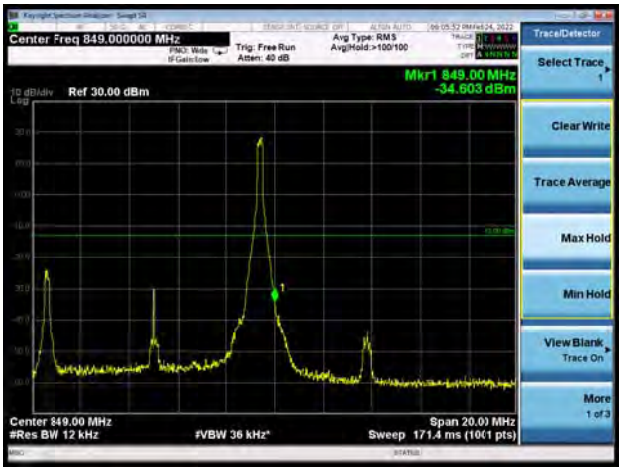
LTE Band 5 QPSK 5MHz CH-High 100%RB



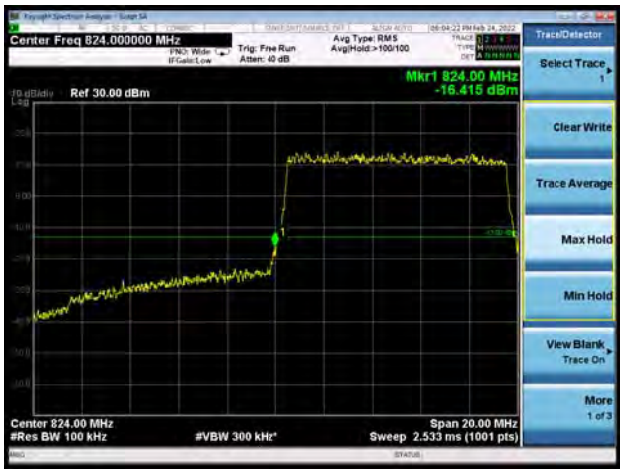
LTE Band 5 QPSK 10MHz CH-Low 1RB



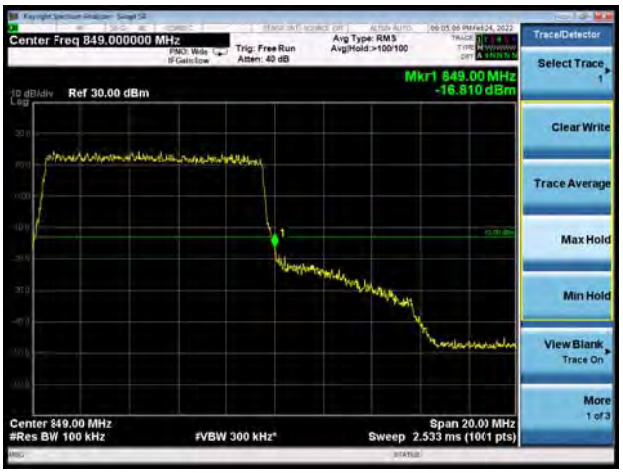
LTE Band 5 QPSK 10MHz CH-High 1RB



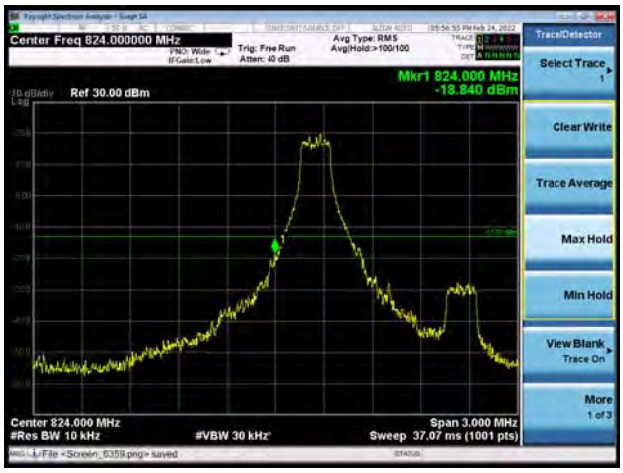
LTE Band 5 QPSK 10MHz CH-Low 100%RB



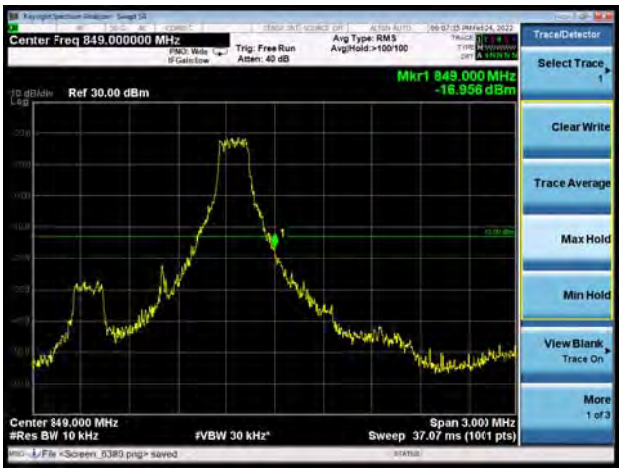
LTE Band 5 QPSK 10MHz CH-High 100%RB



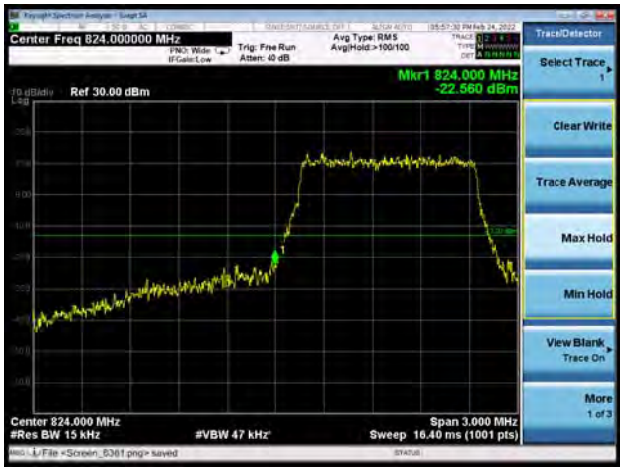
LTE Band 5 16QAM 1.4MHz CH-Low 1RB



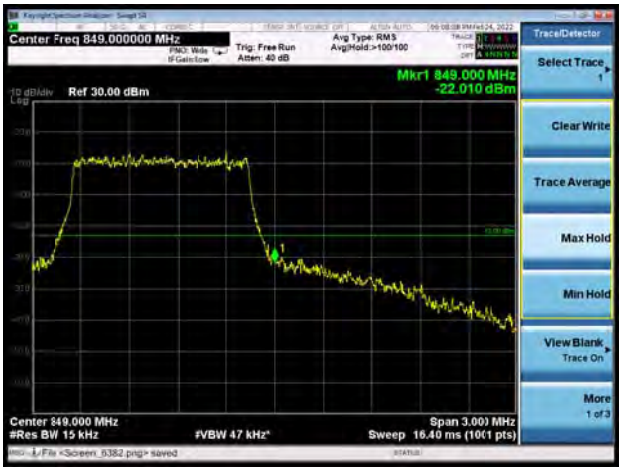
LTE Band 5 16QAM 1.4MHz CH-High 1RB



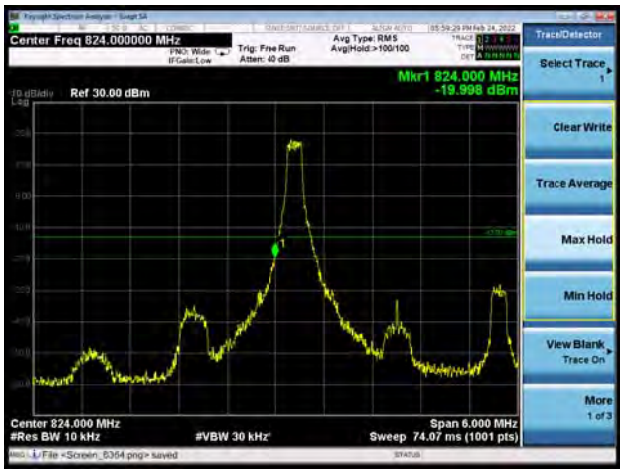
LTE Band 5 16QAM 1.4MHz CH-Low 100%RB



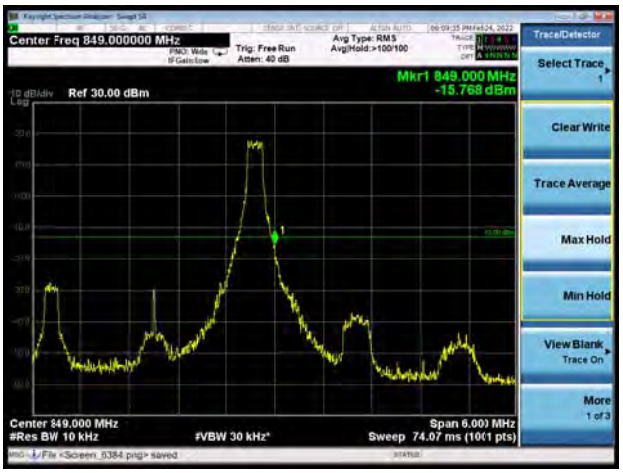
LTE Band 5 16QAM 1.4MHz CH-High 100%RB



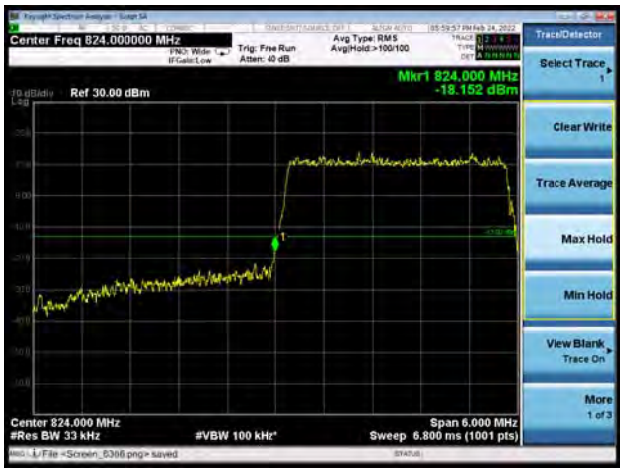
LTE Band 5 16QAM 3MHz CH-Low 1RB



LTE Band 5 16QAM 3MHz CH-High 1RB



LTE Band 5 16QAM 3MHz CH-Low 100%RB

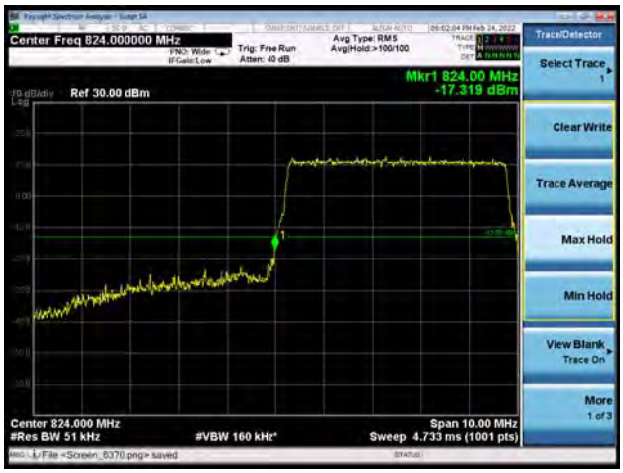


LTE Band 5 16QAM 3MHz CH-High 100%RB

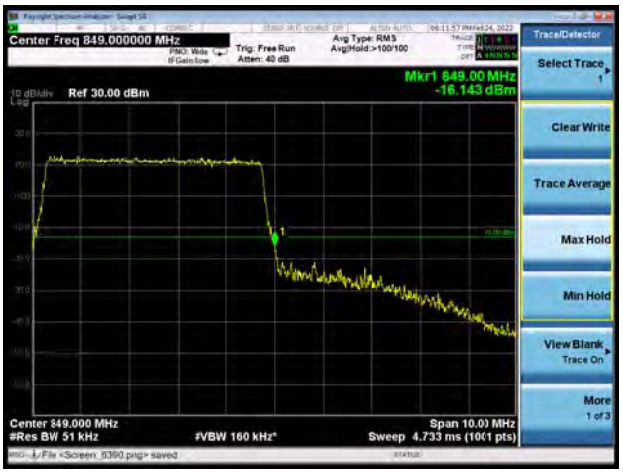
LTE Band 5 16QAM 5MHz CH-Low 1RB

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

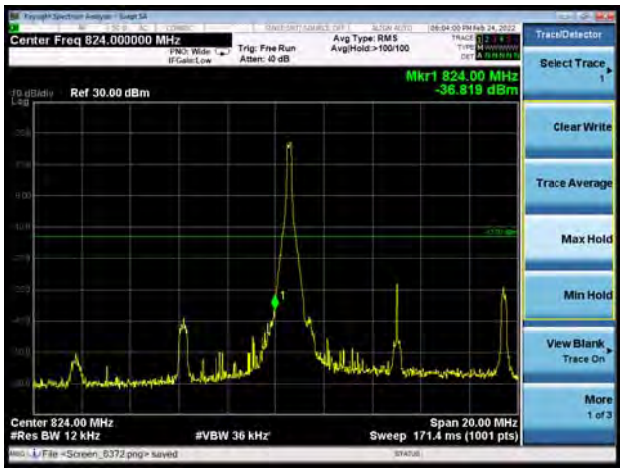
LTE Band 5 16QAM 5MHz CH-Low 100%RB



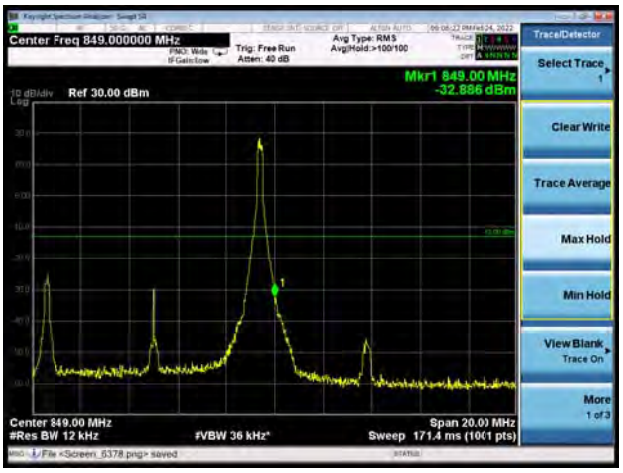
LTE Band 5 16QAM 5MHz CH-High 100%RB

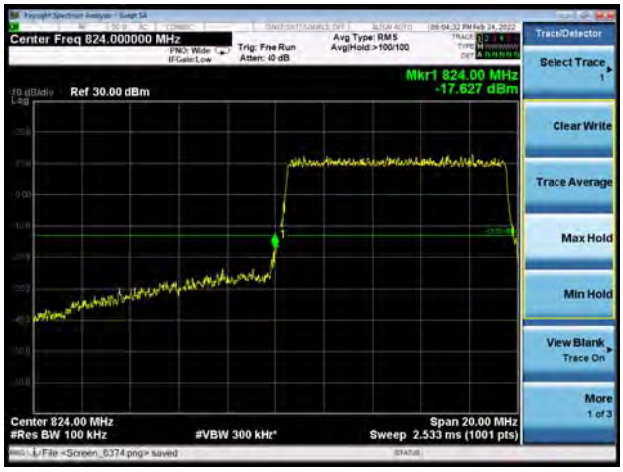
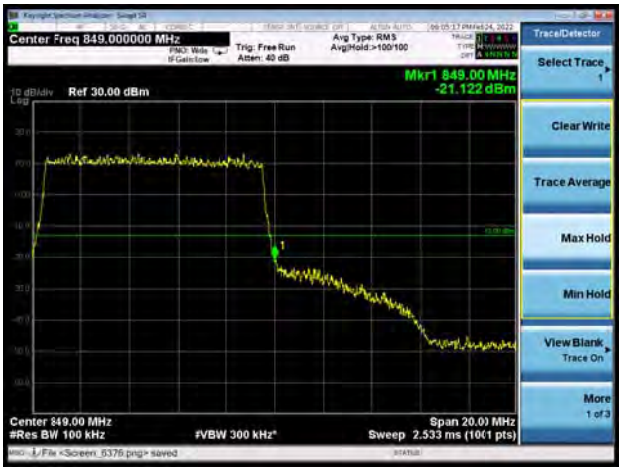


LTE Band 5 16QAM 10MHz CH-Low 1RB

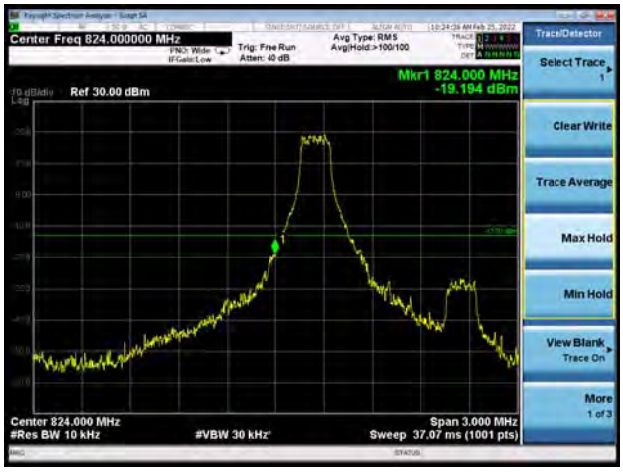


LTE Band 5 16QAM 10MHz CH-High 1RB

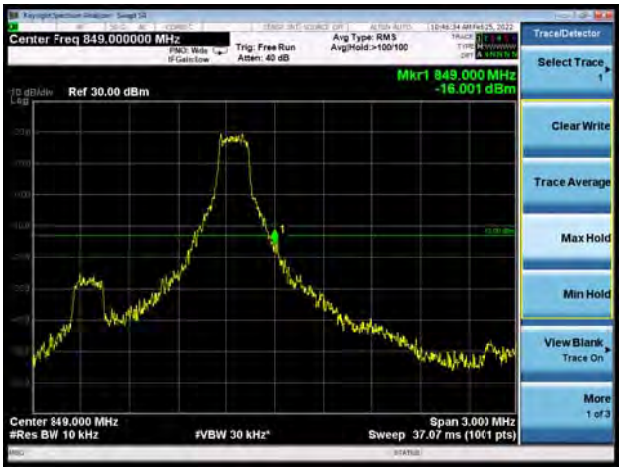


LTE Band 5 16QAM 10MHz CH-Low 100%RB	LTE Band 5 16QAM 10MHz CH-High 100%RB
	

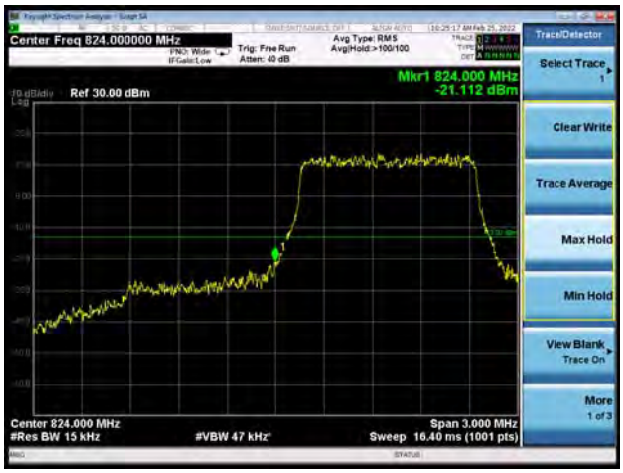
LTE Band 26 QPSK 1.4MHz CH-Low 1RB



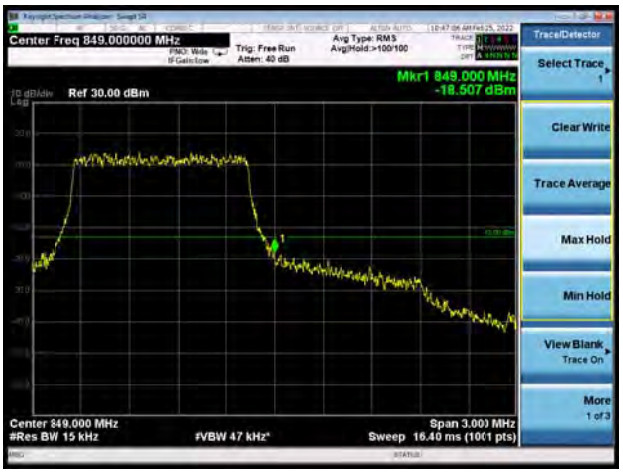
LTE Band 26 QPSK 1.4MHz CH-High 1RB



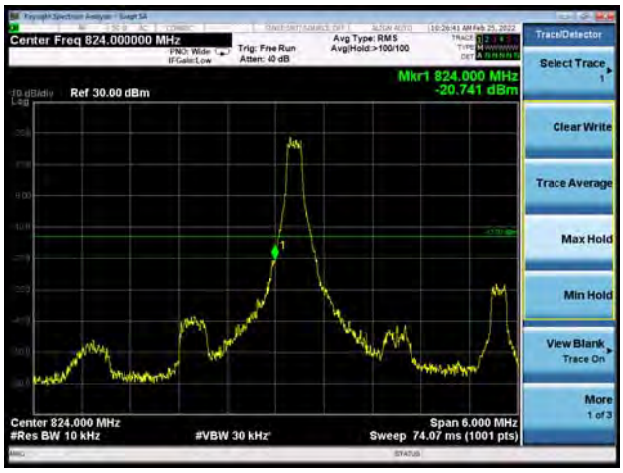
LTE Band 26 QPSK 1.4MHz CH-Low 100%RB



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

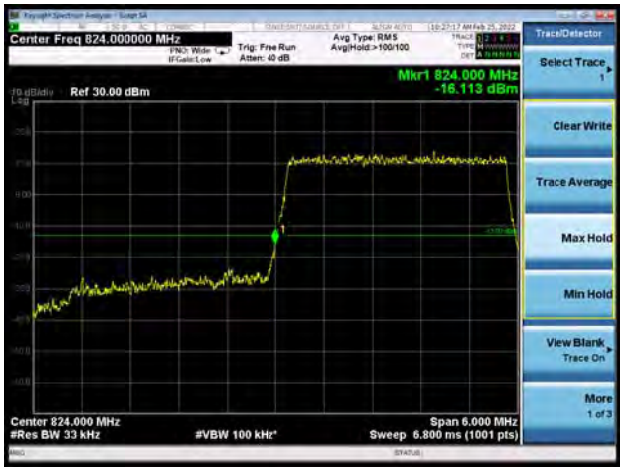


LTE Band 26 QPSK 3MHz CH-Low 1RB

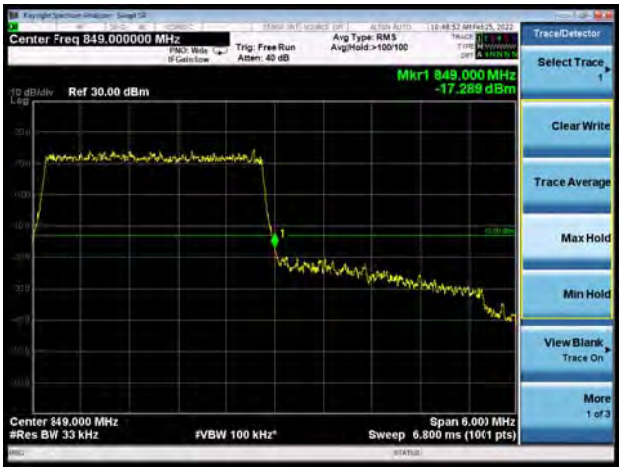


LTE Band 26 QPSK 3MHz CH-High 1RB

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



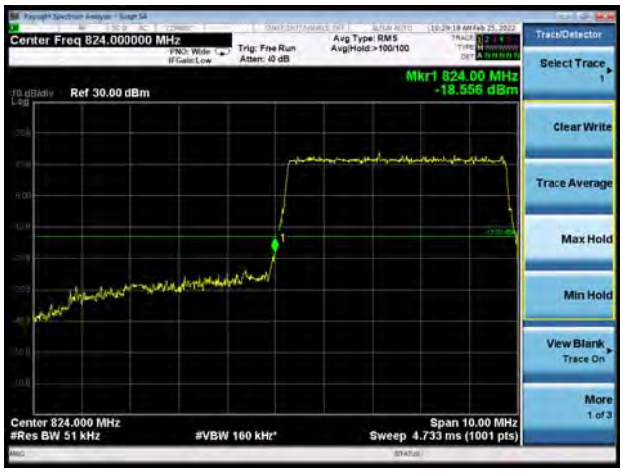
LTE Band 26 QPSK 3MHz CH-High 100%RB



LTE Band 26 QPSK 5MHz CH-Low 1RB

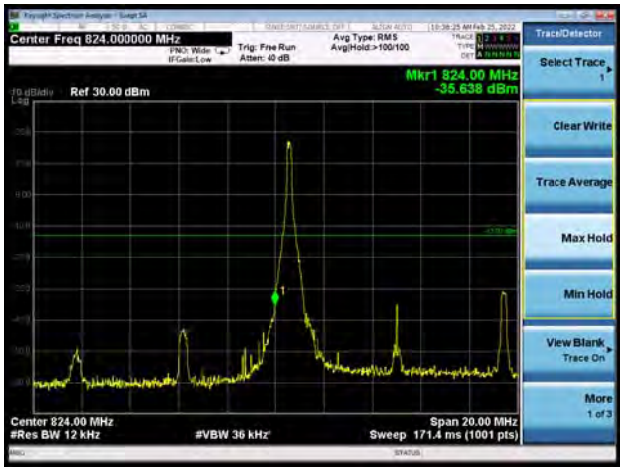
LTE Band 26 QPSK 5MHz CH-High 1RB

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

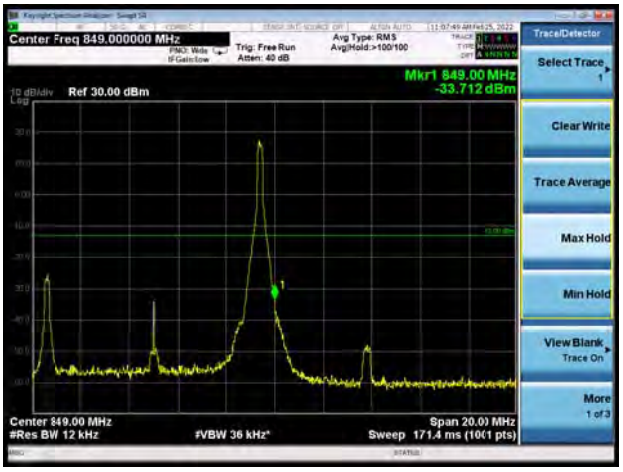


LTE Band 26 QPSK 5MHz CH-High 100%RB

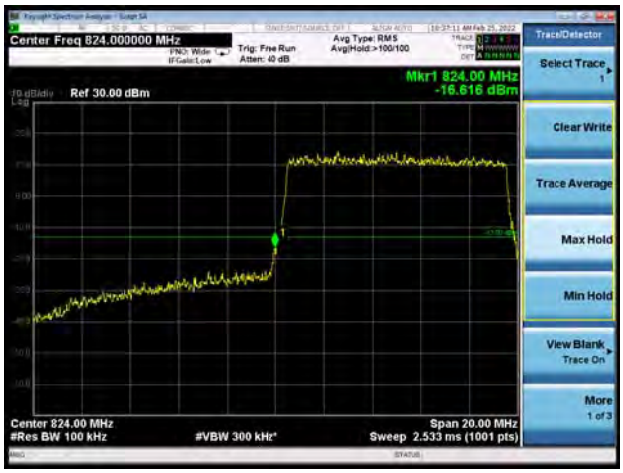
LTE Band 26 QPSK 10MHz CH-Low 1RB



LTE Band 26 QPSK 10MHz CH-High 1RB

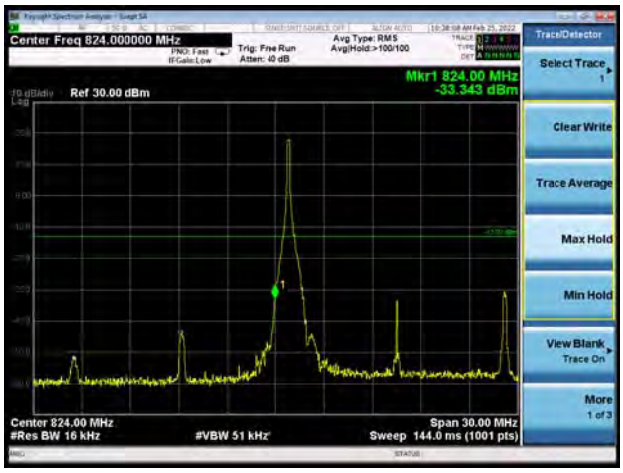


LTE Band 26 QPSK 10MHz CH-Low 100%RB

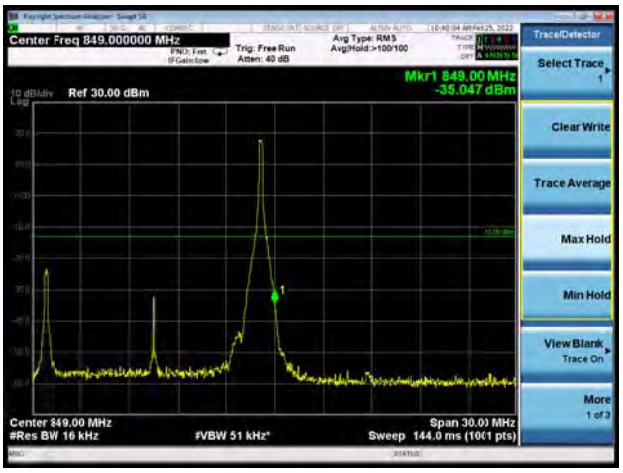


LTE Band 26 QPSK 10MHz CH-High 100%RB

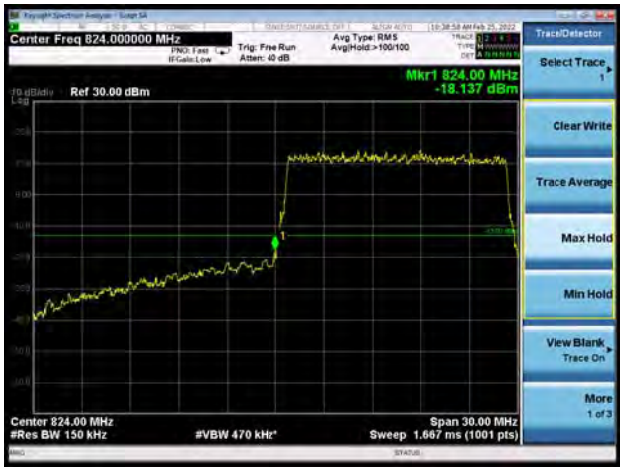
LTE Band 26 QPSK 15MHz CH-Low 1RB



LTE Band 26 QPSK 15MHz CH-High 1RB

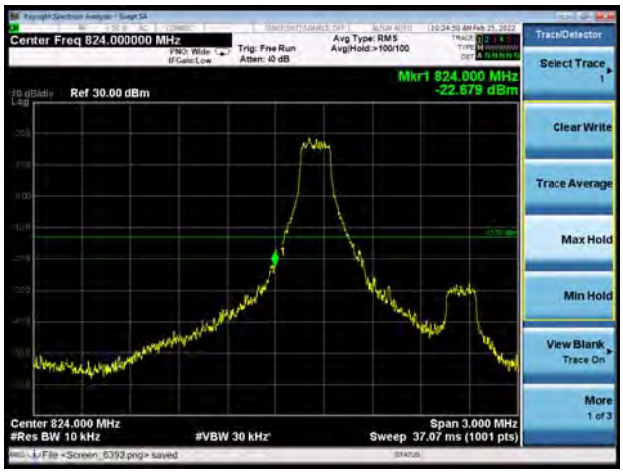


LTE Band 26 QPSK 15MHz CH-Low 100%RB



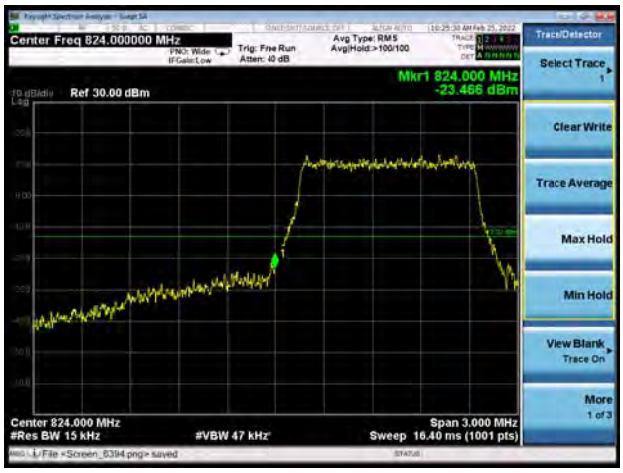
LTE Band 26 QPSK 15MHz CH-High 100%RB

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

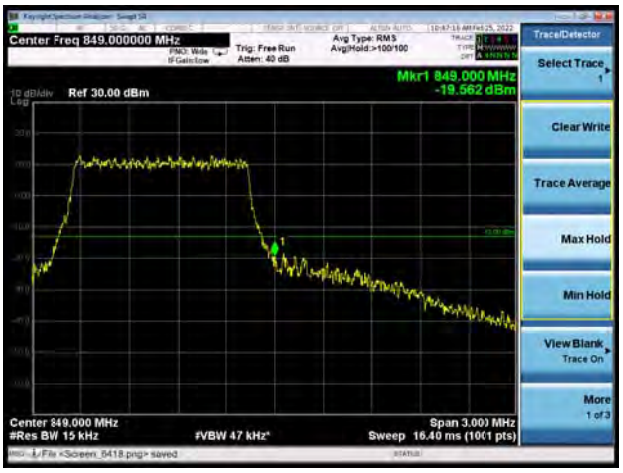


LTE Band 26 16QAM 1.4MHz CH-High 1RB

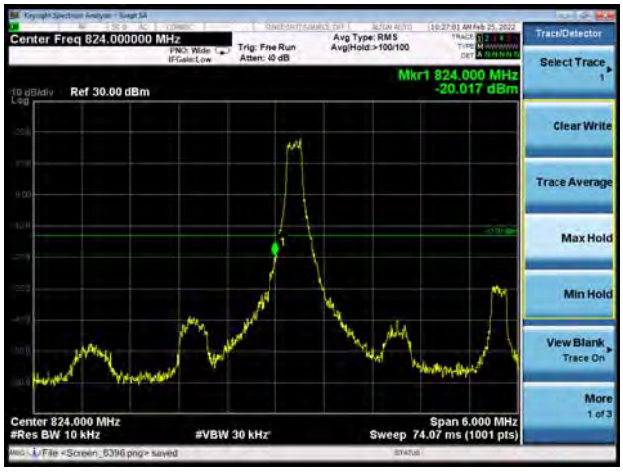
LTE Band 26 16QAM 1.4MHz CH-Low 100%RB



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

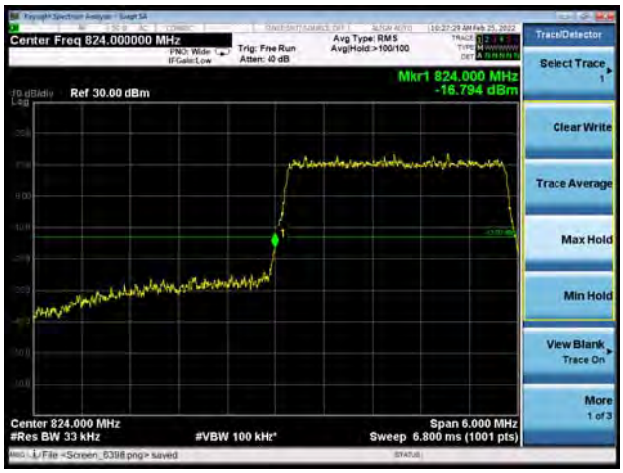


LTE Band 26 16QAM 3MHz CH-Low 1RB

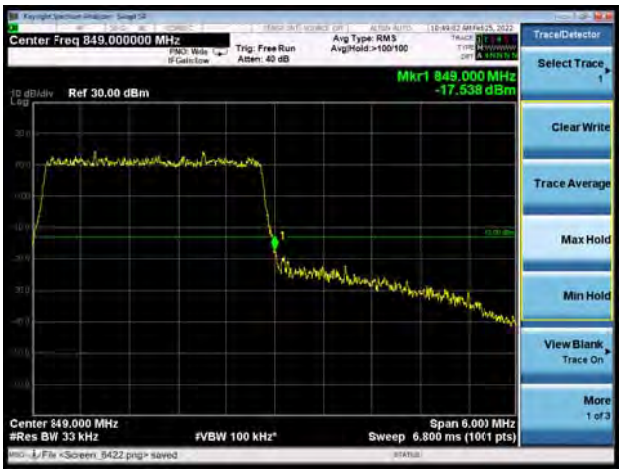


LTE Band 2616QAM 3MHz CH-High 1RB

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



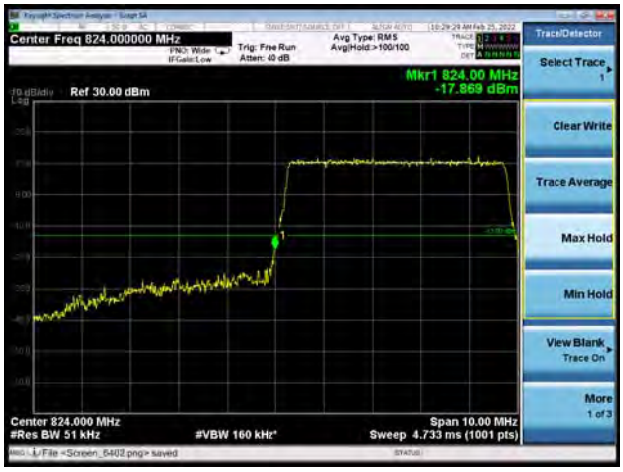
LTE Band 26 16QAM 3MHz CH-High 100%RB



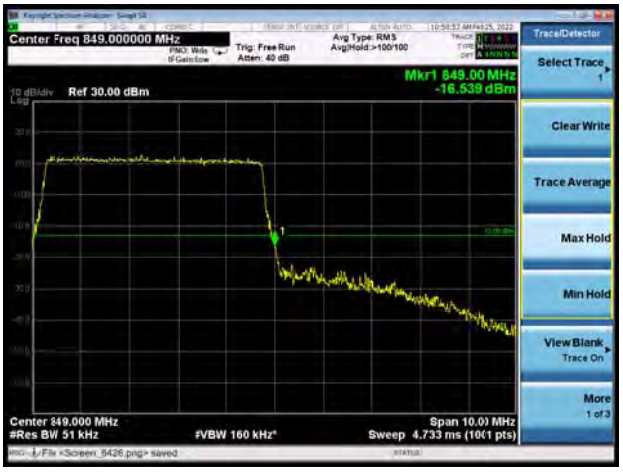
LTE Band 26 16QAM 5MHz CH-Low 1RB

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

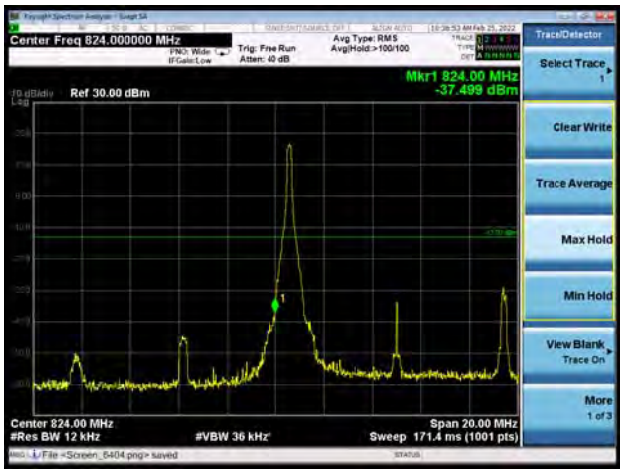
LTE Band 26 16QAM 5MHz CH-Low 100%RB



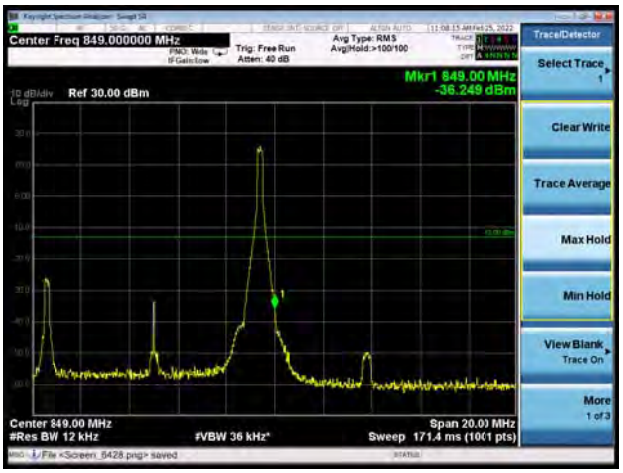
LTE Band 26 16QAM 5MHz CH-High 100%RB



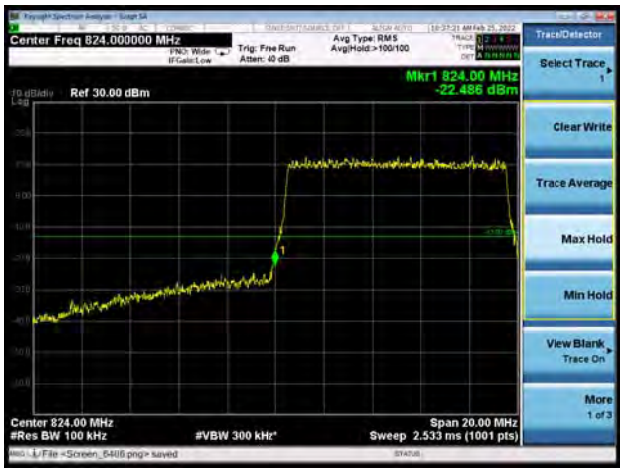
LTE Band 26 16QAM 10MHz CH-Low 1RB



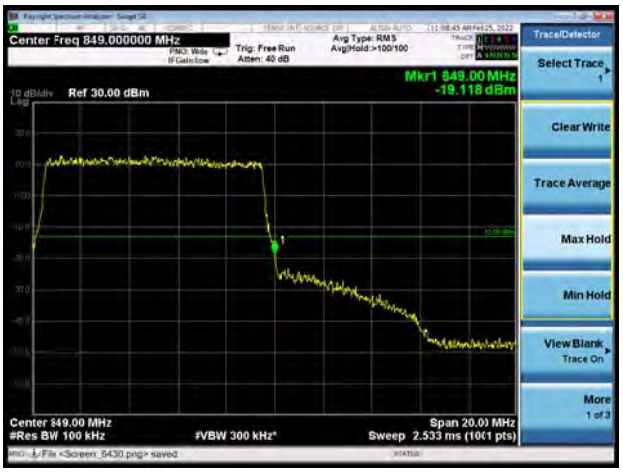
LTE Band 26 16QAM 10MHz CH-High 1RB



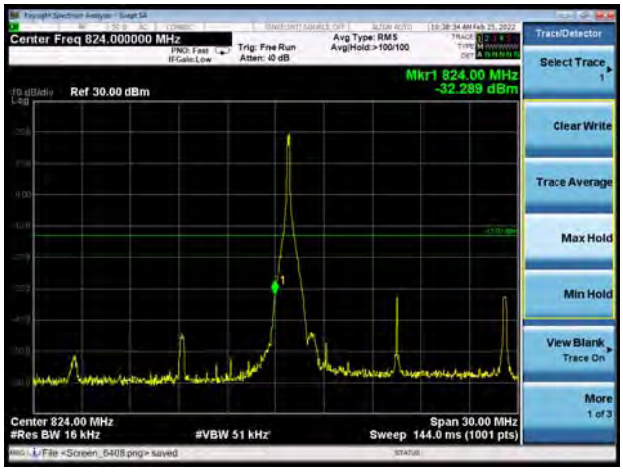
LTE Band 26 16QAM 10MHz CH-Low 100%RB



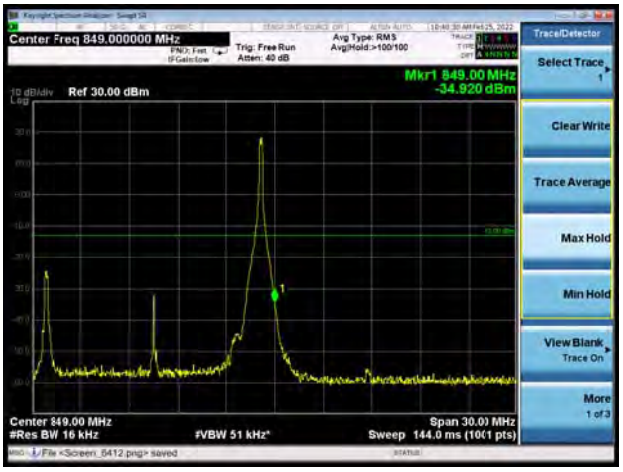
LTE Band 26 16QAM 10MHz CH-High 100%RB



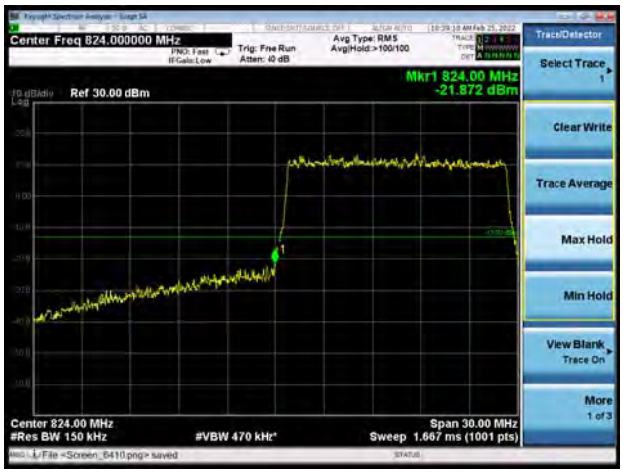
LTE Band 26 16QAM 15MHz CH-Low 1RB



LTE Band 26 16QAM 15MHz CH-High 1RB



LTE Band 26 16QAM 15MHz CH-Low 100%RB



LTE Band 26 16QAM 15MHz CH-High 100%RB

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

Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
GSM 850 (GMSK)	128	824.2	32.24	29.58	2.66	≤13	PASS
	190	836.6	32.33	29.66	2.67	≤13	PASS
	251	848.8	31.95	29.28	2.67	≤13	PASS
GPRS 850 (GMSK)	128	824.2	32.18	29.52	2.66	≤13	PASS
	190	836.6	32.32	29.65	2.67	≤13	PASS
	251	848.8	31.98	29.31	2.67	≤13	PASS
EGPRS 850 (8PSK)	128	824.2	29.22	23.33	5.89	≤13	PASS
	190	836.6	29.19	23.24	5.95	≤13	PASS
	251	848.8	29.12	23.21	5.91	≤13	PASS
WCDMA Band V (RMC)	4132	826.4	27.13	24.21	2.92	≤13	PASS
	4183	836.6	27.15	24.34	2.81	≤13	PASS
	4233	846.6	26.74	23.79	2.95	≤13	PASS

LTE Band 5								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	20407	824.7	28.11	23.28	4.83	≤13	PASS
		20525	836.5	27.72	23.14	4.58	≤13	PASS
		20643	848.3	27.33	23.14	4.19	≤13	PASS
	3	20415	825.5	27.98	23.18	4.80	≤13	PASS
		20525	836.5	27.82	23.23	4.59	≤13	PASS
		20635	847.5	27.76	23.25	4.51	≤13	PASS
	5	20425	826.5	27.93	23.10	4.83	≤13	PASS
		20525	836.5	27.85	23.26	4.59	≤13	PASS
		20625	846.5	28.05	23.43	4.62	≤13	PASS
	10	20450	829	28.00	23.22	4.78	≤13	PASS
		20525	836.5	27.97	23.28	4.69	≤13	PASS
		20600	844	28.32	23.52	4.80	≤13	PASS
16QAM	1.4	20407	824.7	27.95	22.26	5.69	≤13	PASS
		20525	836.5	27.63	22.17	5.46	≤13	PASS
		20643	848.3	27.28	22.19	5.09	≤13	PASS
	3	20415	825.5	28.00	22.28	5.72	≤13	PASS

		20525	836.5	27.69	22.19	5.50	≤13	PASS
		20635	847.5	27.61	22.26	5.35	≤13	PASS
	5	20425	826.5	27.76	22.09	5.67	≤13	PASS
		20525	836.5	27.72	22.25	5.47	≤13	PASS
		20625	846.5	27.94	22.42	5.52	≤13	PASS
	10	20450	829	27.82	22.17	5.65	≤13	PASS
		20525	836.5	27.84	22.30	5.54	≤13	PASS
		20600	844	28.19	22.51	5.68	≤13	PASS

LTE Band 26								
Modulation	**Bandwidth (MHz)**	**Channel**	**Frequency (MHz)**	**Peak (dBm)**	**Avg (dBm)**	**PAPR (dB)**	**Limit (dB)**	**Conclusion**
QPSK	1.4	26797	824.7	27.72	22.76	4.96	≤13	PASS
		26915	836.5	27.61	23.23	4.38	≤13	PASS
		27033	848.3	27.34	23.24	4.10	≤13	PASS
	3	26805	825.5	27.87	22.92	4.95	≤13	PASS
		26915	836.5	27.77	23.32	4.45	≤13	PASS
		27025	847.5	27.71	23.35	4.36	≤13	PASS
	5	26815	826.5	27.81	22.88	4.93	≤13	PASS
		26915	836.5	27.72	23.30	4.42	≤13	PASS
		27015	846.5	27.99	23.40	4.59	≤13	PASS
	10	26840	829	27.74	22.90	4.84	≤13	PASS
		26915	836.5	28.02	23.41	4.61	≤13	PASS
		26990	844	28.33	23.56	4.77	≤13	PASS
	15	26865	831.5	28.19	23.05	5.14	≤13	PASS
		26915	836.5	28.24	23.16	5.08	≤13	PASS
		26965	841.5	28.57	23.42	5.15	≤13	PASS
16QAM	1.4	26797	824.7	27.45	21.74	5.71	≤13	PASS
		26915	836.5	27.62	22.33	5.29	≤13	PASS
		27033	848.3	27.28	22.26	5.02	≤13	PASS
	3	26805	825.5	27.75	21.92	5.83	≤13	PASS
		26915	836.5	27.60	22.31	5.29	≤13	PASS
		27025	847.5	27.64	22.36	5.28	≤13	PASS
	5	26815	826.5	27.59	21.89	5.70	≤13	PASS
		26915	836.5	27.60	22.26	5.34	≤13	PASS
		27015	846.5	27.86	22.37	5.49	≤13	PASS
	10	26840	829	27.62	21.98	5.64	≤13	PASS
		26915	836.5	27.88	22.44	5.44	≤13	PASS
		26990	844	28.18	22.50	5.68	≤13	PASS

	15	26865	831.5	27.83	22.04	5.79	≤13	PASS
		26915	836.5	27.91	22.13	5.78	≤13	PASS
		26965	841.5	28.25	22.42	5.83	≤13	PASS

6.5. Frequency Stability

GSM 850						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal（25℃）	Normal	16.43	9.97	0.01964	0.01192	PASS
Extreme（35℃）		14.72	12.34	0.01759	0.01475	PASS
Extreme（30℃）		15.61	1.28	0.01865	0.00153	PASS
Extreme（20℃）		11.44	12.71	0.01367	0.01519	PASS
Extreme（10℃）		15.68	15.34	0.01875	0.01834	PASS
Extreme（0℃）		6.67	9.17	0.00797	0.01096	PASS
25℃	LV	12.29	3.45	0.01468	0.00412	PASS
	HV	5.35	11.08	0.00639	0.01325	PASS

WCDMA Band V						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal（25℃）	Normal	4.99	17.41	0.00597	0.02081	PASS
Extreme（35℃）		4.61	3.14	0.00551	0.00375	PASS
Extreme（30℃）		3.44	15.90	0.00411	0.01901	PASS
Extreme（20℃）		11.11	14.93	0.01328	0.01785	PASS
Extreme（10℃）		17.18	3.38	0.02054	0.00404	PASS
Extreme（0℃）		15.63	2.06	0.01868	0.00246	PASS
25℃	LV	7.11	14.01	0.00850	0.01674	PASS
	HV	2.28	17.73	0.00273	0.02119	PASS

LTE Band 5						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	17.68	7.30	0.02113	0.00872	PASS
Extreme（35℃）		2.20	16.67	0.00262	0.01993	PASS
Extreme（30℃）		4.01	15.49	0.00479	0.01851	PASS
Extreme（20℃）		17.21	6.29	0.02058	0.00752	PASS
Extreme（10℃）		3.51	12.62	0.00419	0.01508	PASS
Extreme（0℃）		3.79	8.67	0.00452	0.01037	PASS
25℃	LV	3.25	12.06	0.00388	0.01442	PASS
	HV	15.39	11.50	0.01840	0.01375	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	2.95	17.32	0.00353	0.02071	PASS
Extreme（35℃）		8.42	6.60	0.01007	0.00789	PASS
Extreme（30℃）		15.47	16.22	0.01850	0.01939	PASS
Extreme（20℃）		10.71	10.65	0.01280	0.01273	PASS
Extreme（10℃）		17.63	15.07	0.02107	0.01802	PASS
Extreme（0℃）		16.58	7.55	0.01982	0.00902	PASS
25℃	LV	17.11	6.40	0.02046	0.00765	PASS
	HV	11.11	11.21	0.01328	0.01340	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	11.12	8.55	0.01329	0.01022	PASS
Extreme（35℃）		15.19	14.70	0.01816	0.01757	PASS
Extreme（30℃）		6.59	6.17	0.00788	0.00737	PASS
Extreme（20℃）		2.72	6.63	0.00325	0.00793	PASS
Extreme（10℃）		3.07	8.76	0.00368	0.01047	PASS
Extreme（0℃）		8.52	3.95	0.01019	0.00472	PASS
25℃	LV	14.39	16.84	0.01720	0.02014	PASS
	HV	3.33	13.20	0.00399	0.01578	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
BANDWIDTH	10MHz					

Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	11.71	15.13	0.01400	0.01809	PASS
Extreme（35℃）		13.47	1.07	0.01610	0.00128	PASS
Extreme（30℃）		13.70	1.10	0.01638	0.00132	PASS
Extreme（20℃）		16.17	10.87	0.01933	0.01300	PASS
Extreme（10℃）		7.08	3.93	0.00846	0.00469	PASS
Extreme（0℃）		13.12	4.25	0.01569	0.00508	PASS
25℃	LV	2.33	11.87	0.00279	0.01419	PASS
	HV	14.67	12.55	0.01754	0.01501	PASS

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℃）	Normal	10.49	4.85	0.01254	0.00580	PASS
Extreme（35℃）		4.49	17.15	0.00536	0.02050	PASS
Extreme（30℃）		11.92	9.23	0.01425	0.01103	PASS
Extreme（20℃）		3.27	8.09	0.00391	0.00967	PASS
Extreme（10℃）		17.53	16.40	0.02095	0.01961	PASS
Extreme（0℃）		2.05	8.76	0.00245	0.01047	PASS
25℃	LV	16.98	10.62	0.02029	0.01269	PASS
	HV	11.82	13.18	0.01413	0.01575	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	1.60	4.75	0.00192	0.00568	PASS
Extreme（35℃）		6.14	8.89	0.00734	0.01063	PASS
Extreme（30℃）		1.19	11.04	0.00142	0.01320	PASS
Extreme（20℃）		12.14	1.08	0.01451	0.00129	PASS
Extreme（10℃）		3.80	3.32	0.00454	0.00397	PASS
Extreme（0℃）		5.13	5.24	0.00613	0.00627	PASS
25℃	LV	11.68	13.51	0.01397	0.01615	PASS
	HV	7.53	2.67	0.00901	0.00320	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	7.92	7.89	0.00947	0.00943	PASS

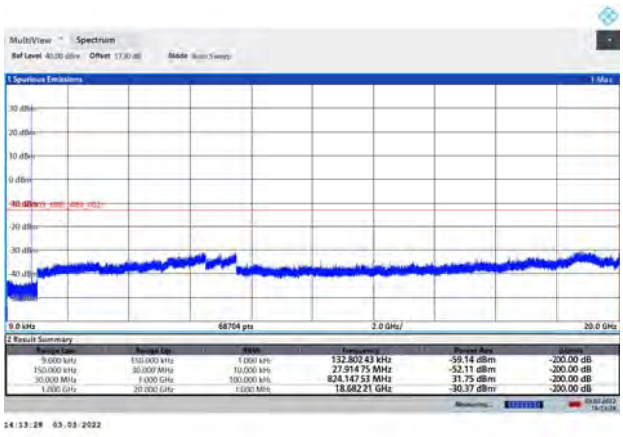
Extreme（35℃）		3.28	6.44	0.00392	0.00770	PASS
Extreme（30℃）		5.30	10.69	0.00633	0.01278	PASS
Extreme（20℃）		7.66	11.61	0.00916	0.01388	PASS
Extreme（10℃）		17.92	10.11	0.02143	0.01208	PASS
Extreme（0℃）		8.41	6.62	0.01005	0.00792	PASS
25℃	LV	14.77	9.53	0.01766	0.01139	PASS
	HV	2.22	3.40	0.00266	0.00407	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	11.96	16.75	0.01429	0.02003	PASS
Extreme（35℃）		15.05	4.23	0.01800	0.00505	PASS
Extreme（30℃）		14.41	1.67	0.01722	0.00200	PASS
Extreme（20℃）		12.98	2.23	0.01552	0.00267	PASS
Extreme（10℃）		7.89	9.73	0.00943	0.01164	PASS
Extreme（0℃）		5.67	12.87	0.00678	0.01538	PASS
25℃	LV	17.56	14.73	0.02099	0.01761	PASS
	HV	15.98	6.03	0.01910	0.00720	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	11.41	5.51	0.01364	0.00659	PASS
Extreme（35℃）		6.83	14.43	0.00817	0.01725	PASS
Extreme（30℃）		16.63	10.93	0.01988	0.01306	PASS
Extreme（20℃）		7.52	12.64	0.00899	0.01511	PASS
Extreme（10℃）		9.80	13.06	0.01172	0.01561	PASS
Extreme（0℃）		15.61	12.35	0.01866	0.01476	PASS
25℃	LV	2.82	16.22	0.00337	0.01939	PASS
	HV	13.56	5.48	0.01621	0.00655	PASS

6.6. Spurious Emissions at Antenna Terminals

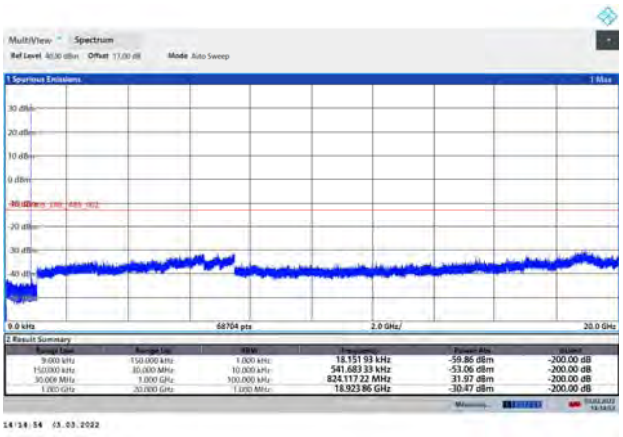
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

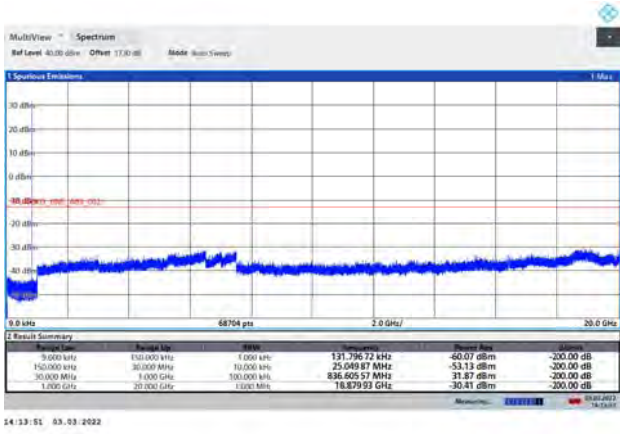
GSM 850 CH-Low 9kHz ~ 20GHz



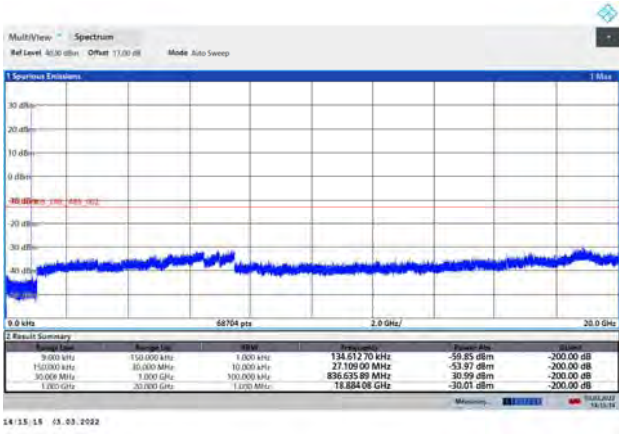
GPRS 850 CH-Low 9kHz ~ 20GHz



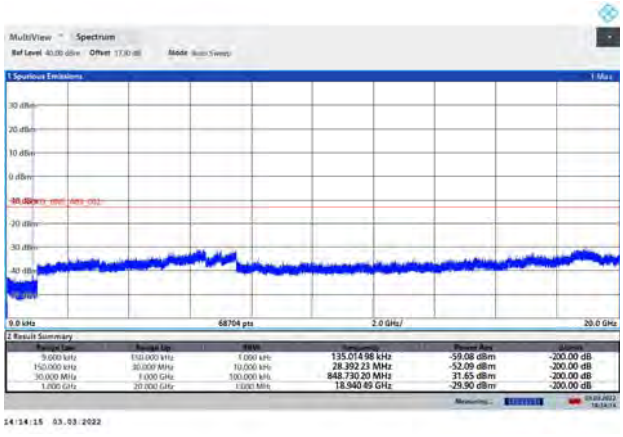
GSM 850 CH-Middle 9kHz ~ 20GHz



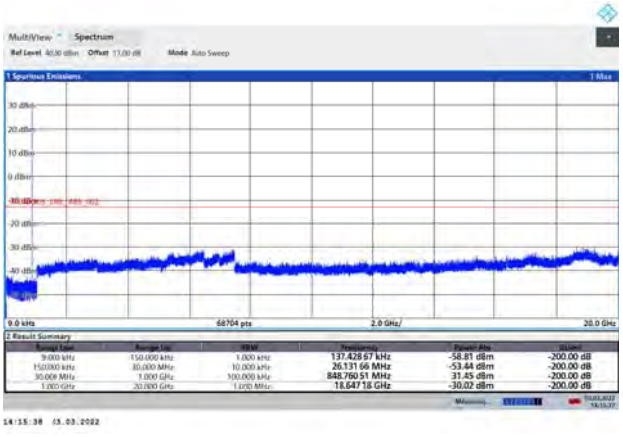
GPRS 850 CH-Middle 9kHz ~ 20GHz



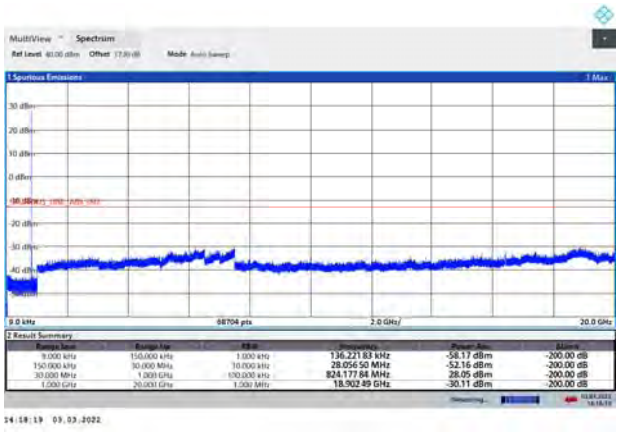
GSM 850 CH-High 9kHz ~ 20GHz



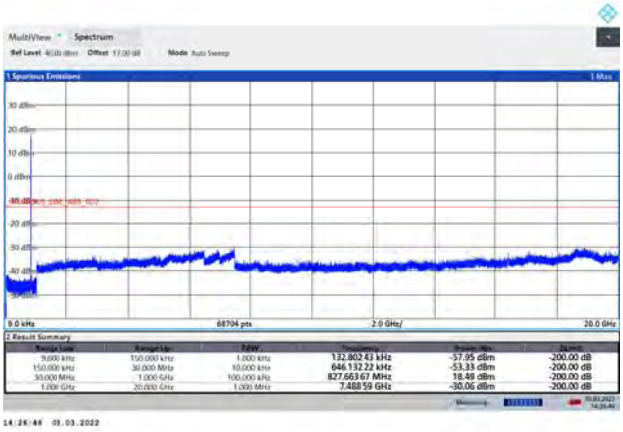
GPRS 850 CH-High 9kHz ~ 20GHz



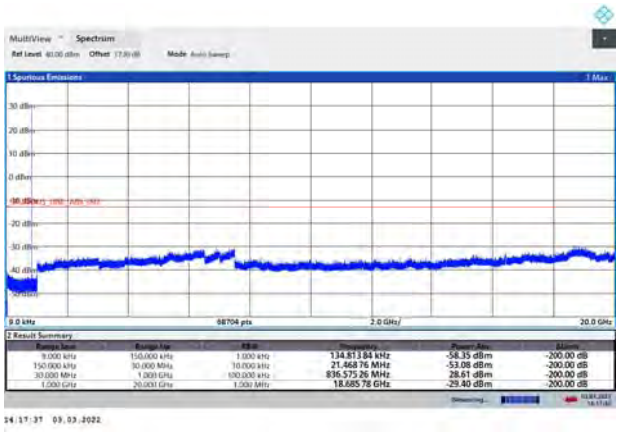
EGPRS 850 CH-Low 9kHz ~ 20GHz



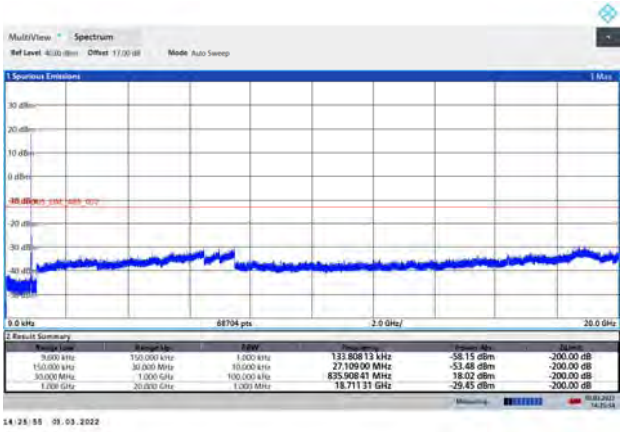
WCDMA BAND V CH-Low 9kHz ~ 20GHz



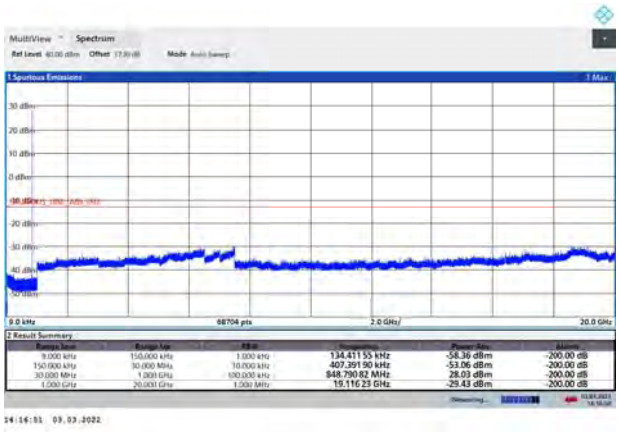
EGPRS 850 CH-Middle 9kHz ~ 20GHz



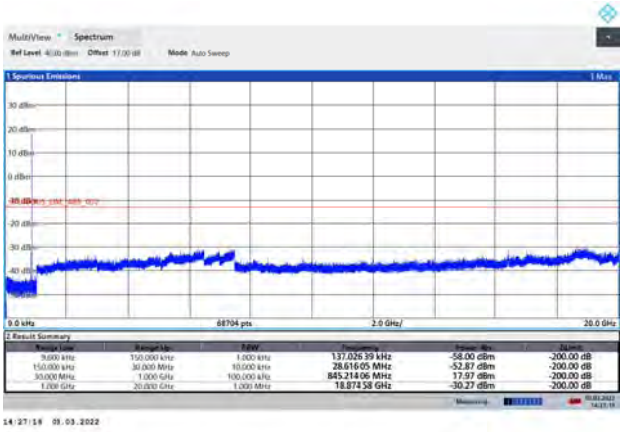
WCDMA BAND V CH-Middle 9kHz ~ 20GHz



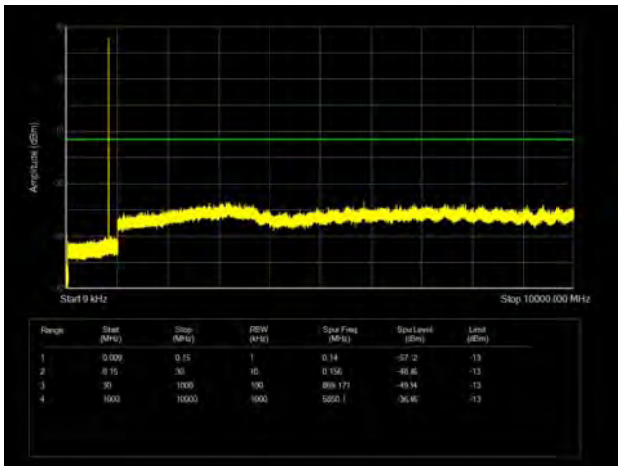
EGPRS 850 CH-High 9kHz ~ 20GHz



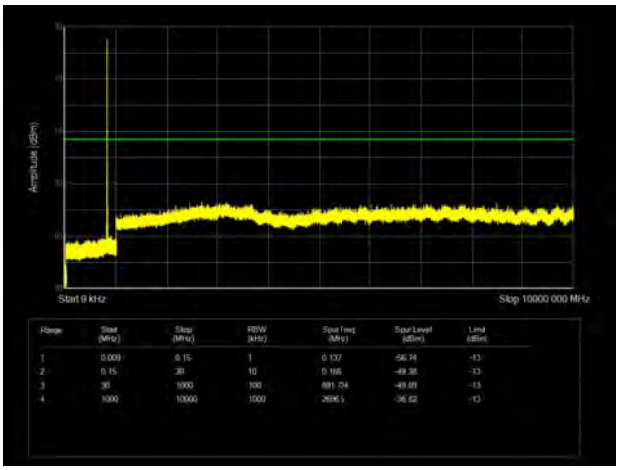
WCDMA BAND V CH-High 9kHz ~ 20GHz



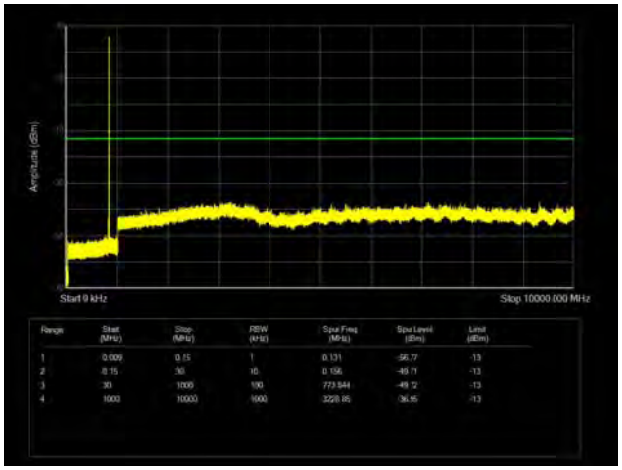
LTE Band 5 1.4MHz CH-Low 9kHz~10GHz



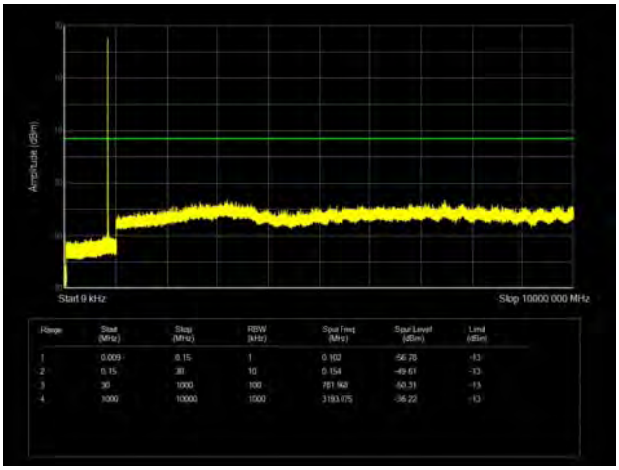
LTE Band 5 3MHz CH-Low 9kHz~10GHz



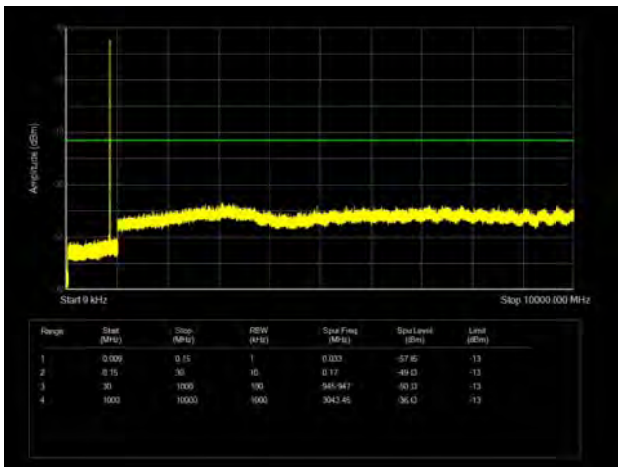
LTE Band 5 1.4MHz CH-Middle 9kHz~10GHz



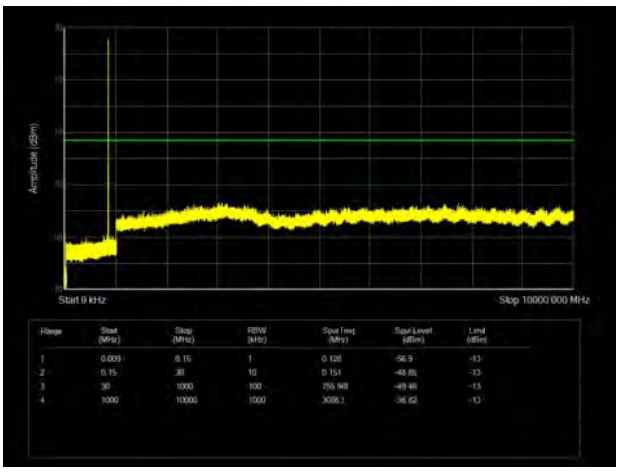
LTE Band 5 3MHz CH-Middle 9kHz~10GHz



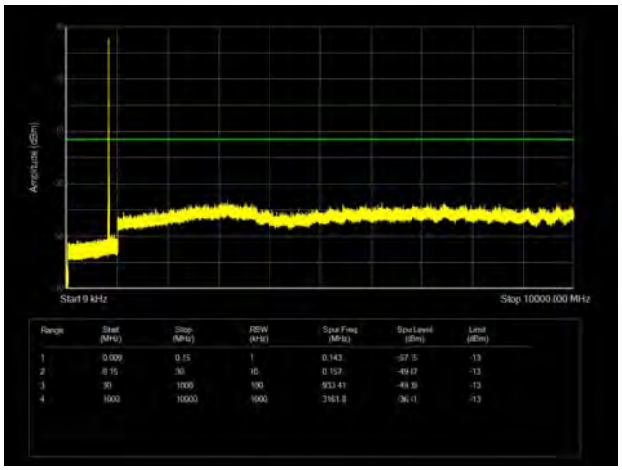
LTE Band 5 1.4MHz CH-High 9kHz~10GHz



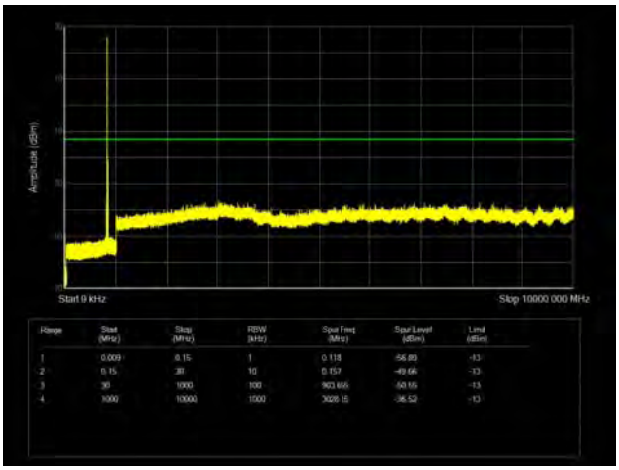
LTE Band 5 3MHz CH-High 9kHz~10GHz



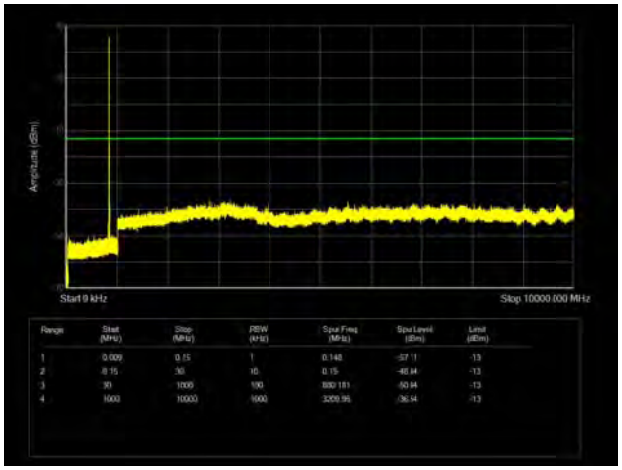
LTE Band 5 5MHz CH-Low 9kHz~10GHz



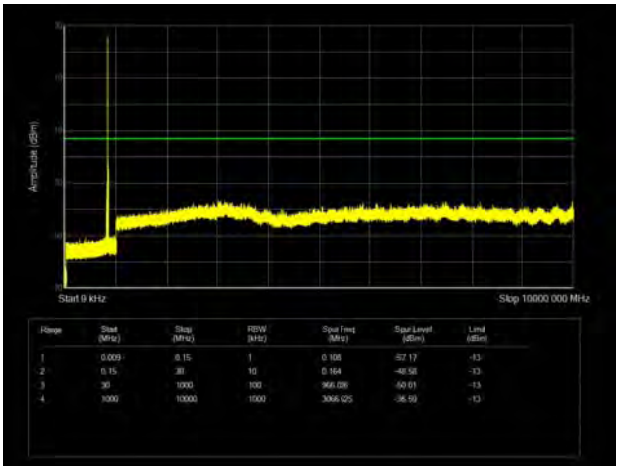
LTE Band 5 10MHz CH-Low 9kHz~10GHz



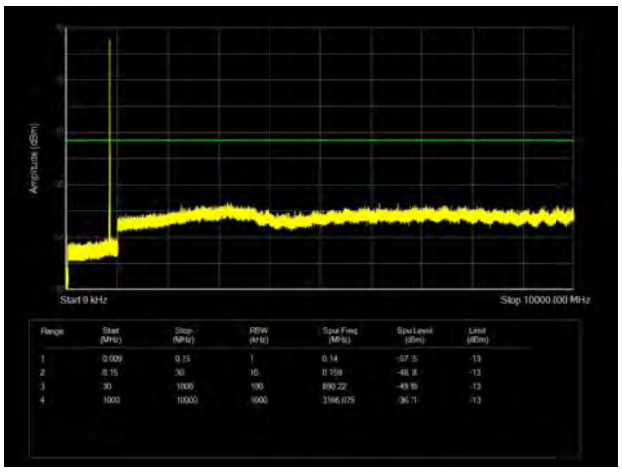
LTE Band 5 5MHz CH-Middle 9kHz~10GHz



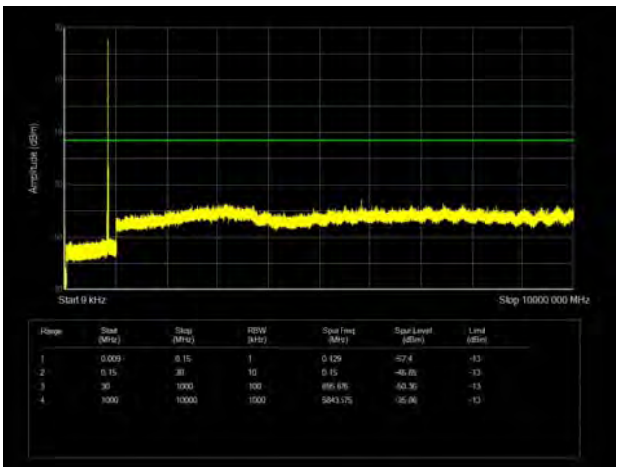
LTE Band 5 10MHz CH-Middle 9kHz~10GHz



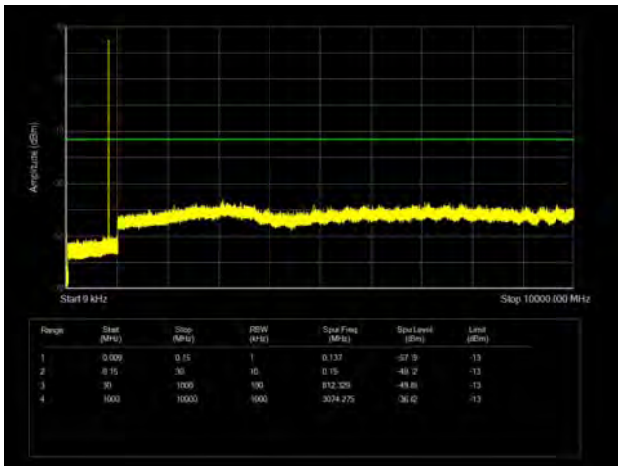
LTE Band 5 5MHz CH-High 9kHz~10GHz



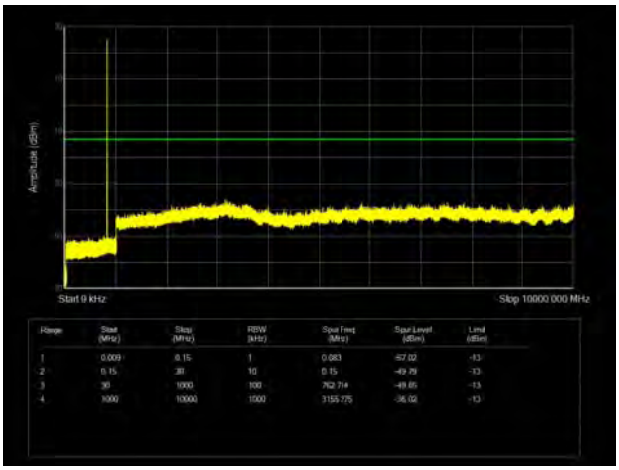
LTE Band 5 10MHz CH-High 9kHz~10GHz



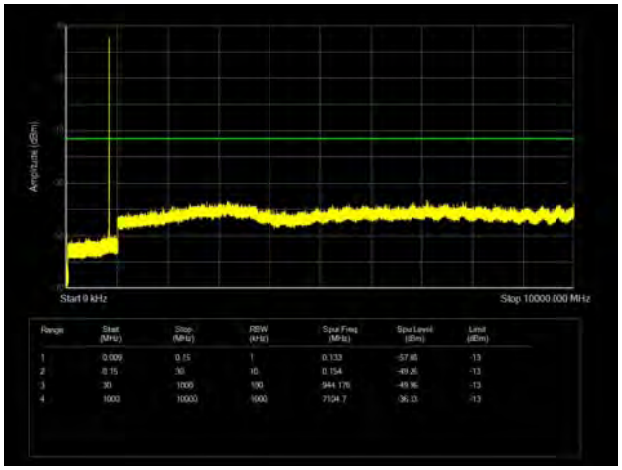
LTE Band 26 1.4MHz CH-Low 9kHz~10GHz



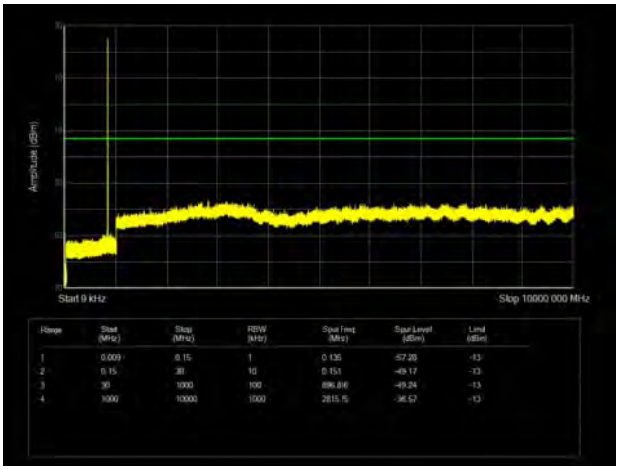
LTE Band 26 3MHz CH-Low 9kHz~10GHz



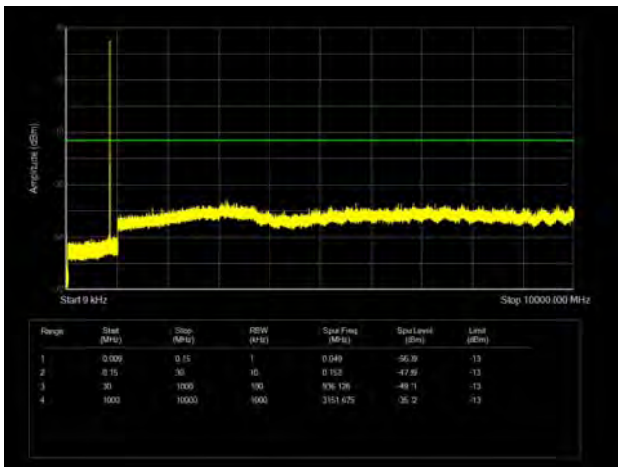
LTE Band 26 1.4MHz CH-Middle 9kHz~10GHz



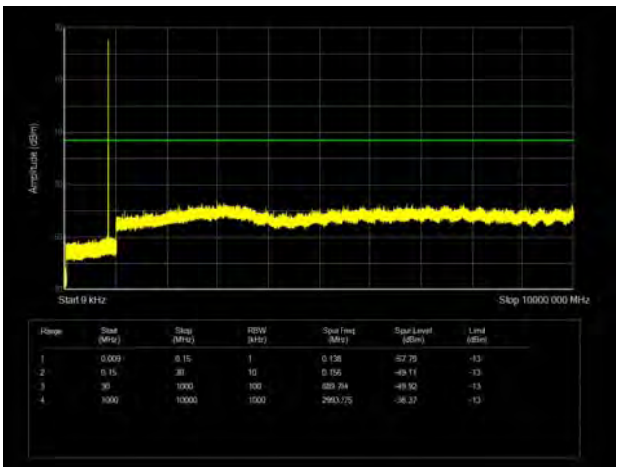
LTE Band 26 3MHz CH-Middle 9kHz~10GHz



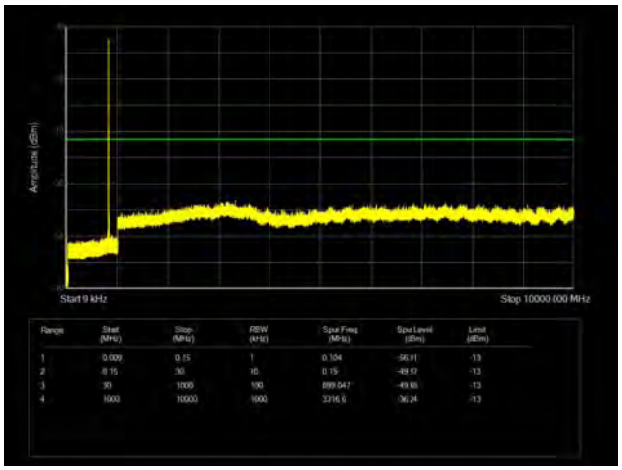
LTE Band 26 1.4MHz CH-High 9kHz~10GHz



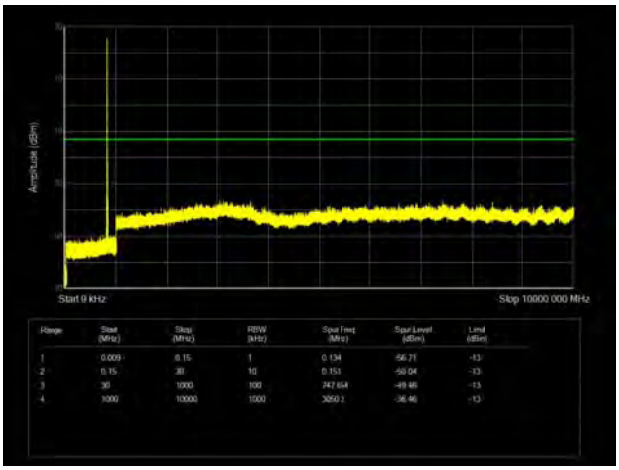
LTE Band 26 3MHz CH-High 9kHz~10GHz



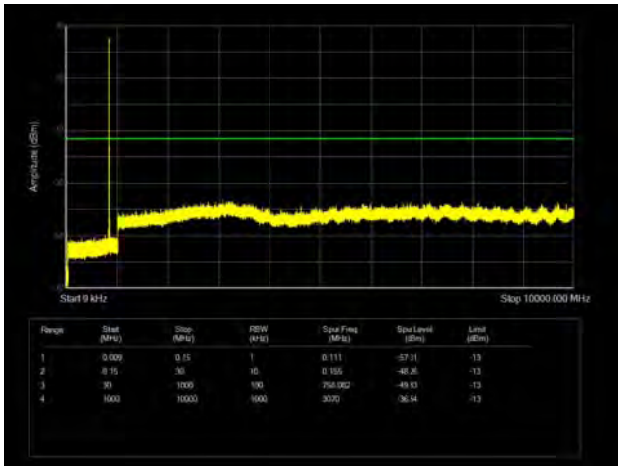
LTE Band 26 5MHz CH-Low 9kHz~10GHz



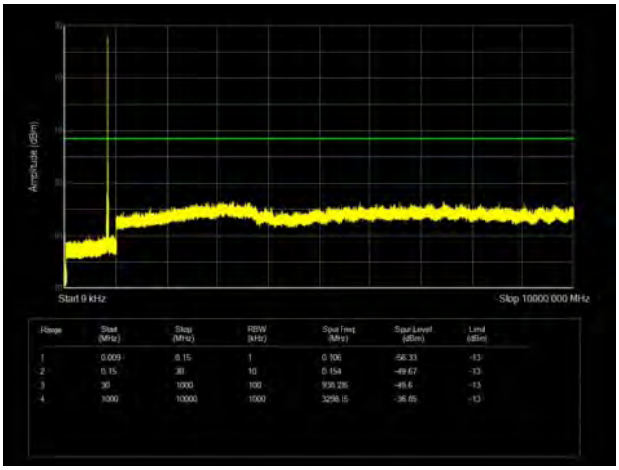
LTE Band 26 10MHz CH-Low 9kHz~10GHz



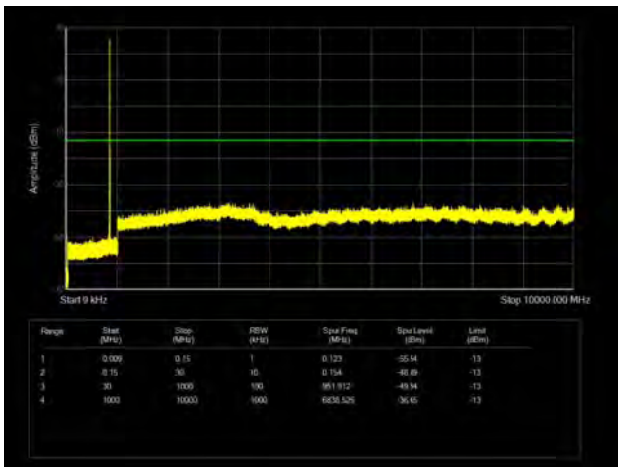
LTE Band 26 5MHz CH-Middle 9kHz~10GHz



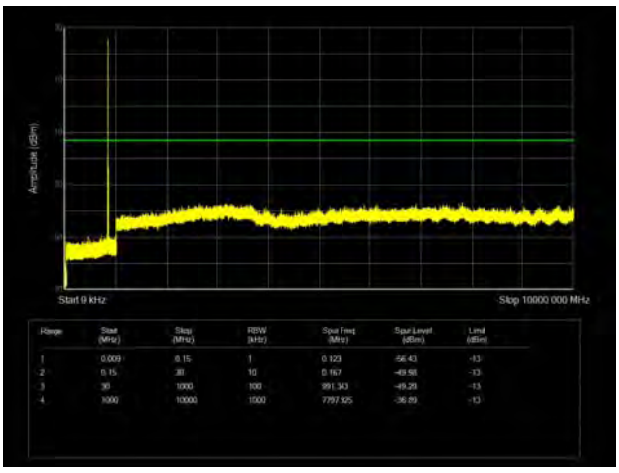
LTE Band 26 10MHz CH-Middle 9kHz~10GHz



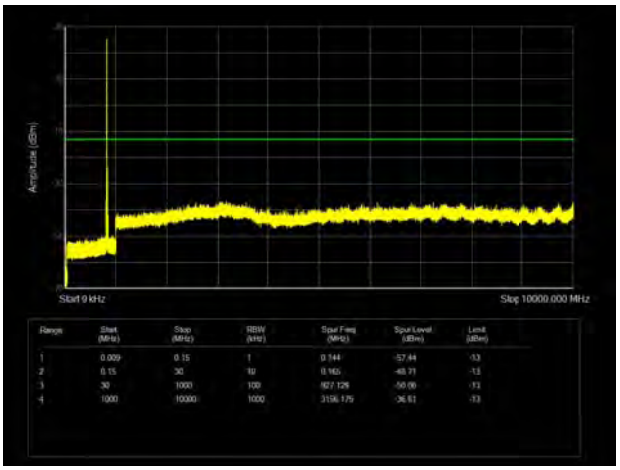
LTE Band 26 5MHz CH-High 9kHz~10GHz



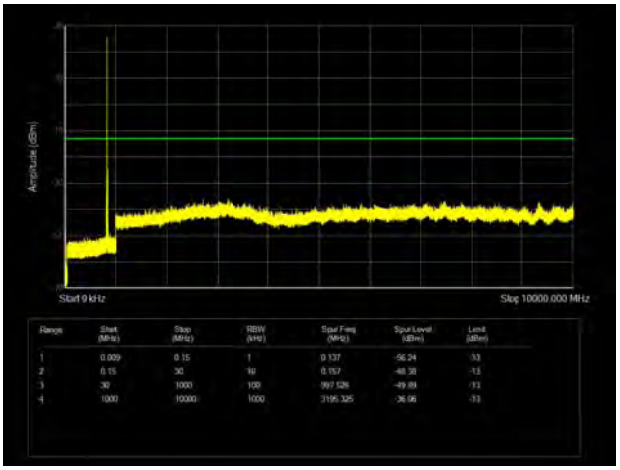
LTE Band 26 10MHz CH-High 9kHz~10GHz



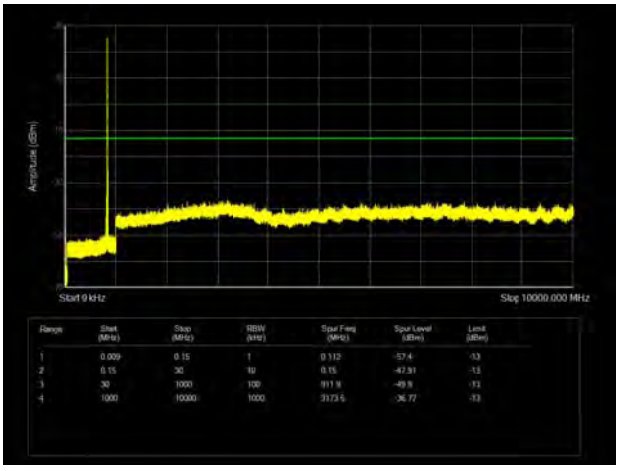
LTE Band 26 15MHz CH-Low 9kHz~10GHz



LTE Band 26 15MHz CH-Middle 9kHz~10GHz



LTE Band 26 15MHz CH-High 9kHz~10GHz



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 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1672.50	-60.24	1.70	8.70	Horizontal	-55.39	-13.00	42.39	135
3	2509.90	-59.02	2.30	12.00	Horizontal	-51.47	-13.00	38.47	225
4	3346.40	-64.90	2.70	12.70	Horizontal	-57.05	-13.00	44.05	45
5	4183.00	-63.20	3.00	12.50	Horizontal	-55.85	-13.00	42.85	225
6	5019.60	-62.47	3.40	12.50	Horizontal	-55.52	-13.00	42.52	180
7	5856.20	-62.94	3.40	12.80	Horizontal	-55.69	-13.00	42.69	90
8	6692.80	-58.62	4.10	11.50	Horizontal	-53.37	-13.00	40.37	45
9	7529.40	-56.53	4.20	12.20	Horizontal	-50.68	-13.00	37.68	225
10	8366.00	-55.18	4.30	12.50	Horizontal	-49.13	-13.00	36.13	315
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 V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.20	-65.59	1.70	8.70	Horizontal	-60.74	-13.00	47.74	90
3	2509.80	-65.33	2.30	12.00	Horizontal	-57.78	-13.00	44.78	225
4	3346.40	-62.33	2.70	12.70	Horizontal	-54.48	-13.00	41.48	45
5	4183.00	-63.75	3.00	12.50	Horizontal	-56.40	-13.00	43.40	225
6	5019.60	-61.60	3.40	12.50	Horizontal	-54.65	-13.00	41.65	90
7	5856.20	-62.83	3.40	12.80	Horizontal	-55.58	-13.00	42.58	45
8	6692.80	-57.85	4.10	11.50	Horizontal	-52.60	-13.00	39.60	180
9	7529.40	-56.10	4.20	12.20	Horizontal	-50.25	-13.00	37.25	90
10	8366.00	-55.27	4.30	12.50	Horizontal	-49.22	-13.00	36.22	225
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 5 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	1671.85	-63.00	1.70	8.70	Horizontal	-58.15	-13.00	45.15	45
3	2515.80	-64.13	2.30	12.00	Horizontal	-56.58	-13.00	43.58	135
4	3346.00	-65.33	2.70	12.70	Horizontal	-57.48	-13.00	44.48	90
5	4182.50	-63.22	3.00	12.50	Horizontal	-55.87	-13.00	42.87	0
6	5019.00	-61.47	3.40	12.50	Horizontal	-54.52	-13.00	41.52	225
7	5855.50	-63.04	3.40	12.80	Horizontal	-55.79	-13.00	42.79	90
8	6692.00	-57.78	4.10	11.50	Horizontal	-52.53	-13.00	39.53	45
9	7528.50	-56.06	4.20	12.20	Horizontal	-50.21	-13.00	37.21	315
10	8365.00	-55.34	4.30	12.50	Horizontal	-49.29	-13.00	36.29	90
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 5 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	1668.60	-63.17	1.70	8.70	Horizontal	-58.32	-13.00	45.32	225
3	2503.30	-65.47	2.30	12.00	Horizontal	-57.92	-13.00	44.92	90
4	3466.20	-65.06	2.70	12.70	Horizontal	-57.21	-13.00	44.21	45
5	4215.90	-63.87	3.00	12.50	Horizontal	-56.52	-13.00	43.52	315
6	5165.60	-61.02	3.40	12.50	Horizontal	-54.07	-13.00	41.07	225
7	5815.30	-63.46	3.40	12.80	Horizontal	-56.21	-13.00	43.21	225
8	6765.00	-57.59	4.10	11.50	Horizontal	-52.34	-13.00	39.34	0
9	7614.70	-56.71	4.20	12.20	Horizontal	-50.86	-13.00	37.86	45
10	8464.40	-56.91	4.30	12.50	Horizontal	-50.86	-13.00	37.86	45
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 5 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	1664.40	-63.16	1.70	8.70	Horizontal	-58.31	-13.00	45.31	45
3	2496.60	-65.38	2.30	12.00	Horizontal	-57.83	-13.00	44.83	0
4	3346.00	-65.01	2.70	12.70	Horizontal	-57.16	-13.00	44.16	315
5	4182.50	-63.52	3.00	12.50	Horizontal	-56.17	-13.00	43.17	90
6	5019.00	-61.94	3.40	12.50	Horizontal	-54.99	-13.00	41.99	225
7	5855.50	-62.93	3.40	12.80	Horizontal	-55.68	-13.00	42.68	90
8	6692.00	-59.74	4.10	11.50	Horizontal	-54.49	-13.00	41.49	0
9	7528.50	-55.69	4.20	12.20	Horizontal	-49.84	-13.00	36.84	45
10	8365.00	-54.96	4.30	12.50	Horizontal	-48.91	-13.00	35.91	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 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	1672.13	-65.70	1.70	8.70	Horizontal	-60.85	-13.00	47.85	45
3	2508.00	-65.51	2.30	12.00	Horizontal	-57.96	-13.00	44.96	0
4	3346.00	-65.30	2.70	12.70	Horizontal	-57.45	-13.00	44.45	90
5	4182.50	-65.87	3.00	12.50	Horizontal	-58.52	-13.00	45.52	180
6	5019.00	-62.78	3.40	12.50	Horizontal	-55.83	-13.00	42.83	180
7	5855.50	-63.72	3.40	12.80	Horizontal	-56.47	-13.00	43.47	180
8	6692.00	-59.49	4.10	11.50	Horizontal	-54.24	-13.00	41.24	0
9	7528.50	-56.25	4.20	12.20	Horizontal	-50.40	-13.00	37.40	45
10	8365.00	-56.54	4.30	12.50	Horizontal	-50.49	-13.00	37.49	135
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 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	1668.75	-64.95	1.70	8.70	Horizontal	-60.10	-13.00	47.10	45
3	2502.94	-66.37	2.30	12.00	Horizontal	-58.82	-13.00	45.82	135
4	3336.00	-64.75	2.70	12.70	Horizontal	-56.90	-13.00	43.90	0
5	4170.00	-63.84	3.00	12.50	Horizontal	-56.49	-13.00	43.49	225
6	5004.00	-62.31	3.40	12.50	Horizontal	-55.36	-13.00	42.36	45
7	5838.00	-63.14	3.40	12.80	Horizontal	-55.89	-13.00	42.89	135
8	6672.00	-57.53	4.10	11.50	Horizontal	-52.28	-13.00	39.28	225
9	7506.00	-56.20	4.20	12.20	Horizontal	-50.35	-13.00	37.35	45
10	8340.00	-55.71	4.30	12.50	Horizontal	-49.66	-13.00	36.66	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 15MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1659.38	-65.85	1.70	8.70	Horizontal	-61.00	-13.00	48.00	225
3	2489.44	-65.82	2.30	12.00	Horizontal	-58.27	-13.00	45.27	0
4	3316.00	-64.74	2.70	12.70	Horizontal	-56.89	-13.00	43.89	90
5	4145.00	-63.54	3.00	12.50	Horizontal	-56.19	-13.00	43.19	180
6	4974.00	-61.81	3.40	12.50	Horizontal	-54.86	-13.00	41.86	180
7	5803.00	-64.58	3.40	12.80	Horizontal	-57.33	-13.00	44.33	180
8	6632.00	-60.47	4.10	11.50	Horizontal	-55.22	-13.00	42.22	45
9	7461.00	-53.74	4.20	12.20	Horizontal	-47.89	-13.00	34.89	0
10	8290.00	-53.58	4.30	12.50	Horizontal	-47.53	-13.00	34.53	45
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	Weiss	VT4002	58226119450010	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.