





RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd

FCC ID XMR201909EG95NAX

Product LTE Module

Brand Quectel

Model EG95-NAX

Report No. R1907A0407-R1

Issue Date November 19, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2018)/ FCC CFR 47 Part 22H (2018). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Peng Tao

Approved by: Kai Xu

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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 T	Date of Testing: October 22, 2019 ~ November 9, 2019								



1. Test Laboratory

1.1. Notes of the Test Report

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1.2. 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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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Quectel Wireless Solutions Co., Ltd					
Applicant address	Building 5, Shanghai Business Park Phase III (Area B), No.1016					
Applicant address	Tianlin Road, Minhang District, Shanghai, China 200233					
Manufacturer	Quectel Wireless Solutions Co., Ltd					
Manufacturer address	Building 5, Shanghai Business Park Phase III (Area B), No.1016					
Manufacturer address	Tianlin Road, Minhang District, Shanghai, China 200233					

2.2. General Information

EUT Description								
Model	EG95-NAX							
IMEI	865026040005000							
Hardware Version	R1.0							
Software Version	EG95NAXGAR07A01M	1G						
Power Supply	External Power Supply							
Antenna Type	The EUT don't have statesting in this report in Antenna)							
Antenna Gain	4dBi							
Test Mode(s)	LTE Band 26;							
Test Modulation	(LTE)QPSK 16QAM;							
LTE Category	4							
Maximum E.R.P.	LTE Band 26:	24.65dBm						
Rated Power Supply Voltage	3.8V							
Extreme Voltage	Minimum: 3.3V Maxir	mum: 4.3V						
Extreme Temperature	Lowest: -40°C High	est: +85°C						
Operating Frequency Pango(s)	Band	Tx (MHz)	Rx (MHz)					
Operating Frequency Range(s)	LTE Band 26	824 ~ 849	869 ~ 894					
Note: The information of the EUT	is declared by the manuf	acturer.						

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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 (2018)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2018)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

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

All mode and data rates and positions were investigated. Subsequently, only the worst case emissions are reported.

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

Test items		Band	width	(MHz))	Modulation		RB				Test hann	
	1.4	3	5	10	15	QPSK	16QAM	1	50%	100%	L	М	Н
RF power output and Effective Isotropic	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiated power Occupied Bandwidth	0	0	0	0	0	0	0	-	-	0	0	0	0
Band Edge Compliance	0	0	0	0	0	0	0	0	-	0	0	-	0
Peak-to-Average Power Ratio	0	0	0	0	0	0	0	-	-	0	0	0	0
Frequency Stability	-	-	-	-	0	0	0	-	-	0	-	0	-
Spurious Emissions at Antenna Terminals	0	0	0	0	0	0	-	0	-	-	0	0	0
Radiates Spurious Emission	0	-	0	-	0	0	-	0	-	-	-	0	-

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 Results

5.1. RF Power Output and Effective Radiated Power

Ambient condition

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

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Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).

- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.LOSS = Generator Output Power (dBm) Analyzer reading (dBm)
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:ERP (dBm) = LVL (dBm) + LOSS (dB)
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g.transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. 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.

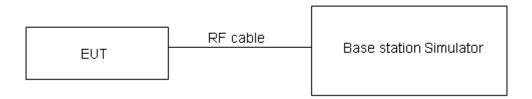
EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

The RB allocation refers to section 5.1, using the maximum output power configuration.

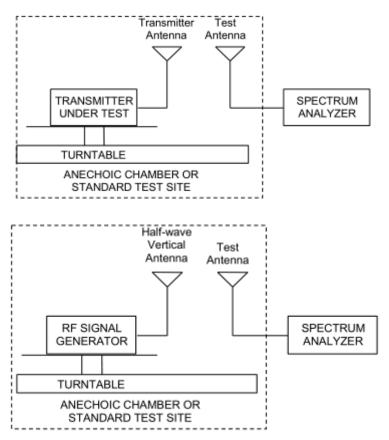




Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.



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)
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Measurement Uncertainty

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



Test Results

Dond	Bandwidth	UL	DD 0:	RB	Madulatian	Power	EDD
Band	(MHz)	Channel	RB Size	Position	Modulation	(dBm)	ERP
LTE Band26	1.4	26797	1	#0	QPSK	24.14	24.52
LTE Band26	1.4	26797	1	#Mid	QPSK	24.27	24.65
LTE Band26	1.4	26797	1	#Max	QPSK	24.08	24.46
LTE Band26	1.4	26797	3	#0	QPSK	23.87	24.25
LTE Band26	1.4	26797	3	#Mid	QPSK	23.86	24.24
LTE Band26	1.4	26797	3	#Max	QPSK	23.82	24.20
LTE Band26	1.4	26797	6	#0	QPSK	22.92	23.30
LTE Band26	1.4	26797	1	#0	16QAM	22.99	23.37
LTE Band26	1.4	26797	1	#Mid	16QAM	23.30	23.68
LTE Band26	1.4	26797	1	#Max	16QAM	22.93	23.31
LTE Band26	1.4	26797	3	#0	16QAM	23.08	23.46
LTE Band26	1.4	26797	3	#Mid	16QAM	23.08	23.46
LTE Band26	1.4	26797	3	#Max	16QAM	23.07	23.45
LTE Band26	1.4	26797	6	#0	16QAM	21.93	22.31
LTE Band26	1.4	26915	1	#0	QPSK	23.88	23.62
LTE Band26	1.4	26915	1	#Mid	QPSK	24.02	23.76
LTE Band26	1.4	26915	1	#Max	QPSK	23.78	23.52
LTE Band26	1.4	26915	3	#0	QPSK	24.05	23.79
LTE Band26	1.4	26915	3	#Mid	QPSK	24.05	23.79
LTE Band26	1.4	26915	3	#Max	QPSK	23.99	23.73
LTE Band26	1.4	26915	6	#0	QPSK	23.05	22.79
LTE Band26	1.4	26915	1	#0	16QAM	23.47	23.21
LTE Band26	1.4	26915	1	#Mid	16QAM	23.70	23.44
LTE Band26	1.4	26915	1	#Max	16QAM	23.49	23.23
LTE Band26	1.4	26915	3	#0	16QAM	23.32	23.06
LTE Band26	1.4	26915	3	#Mid	16QAM	23.32	23.06
LTE Band26	1.4	26915	3	#Max	16QAM	23.29	23.03
LTE Band26	1.4	26915	6	#0	16QAM	22.13	22.27
LTE Band26	1.4	27033	1	#0	QPSK	23.68	23.82
LTE Band26	1.4	27033	1	#Mid	QPSK	23.84	23.98
LTE Band26	1.4	27033	1	#Max	QPSK	23.63	23.77
LTE Band26	1.4	27033	3	#0	QPSK	23.72	23.86
LTE Band26	1.4	27033	3	#Mid	QPSK	23.63	23.77
LTE Band26	1.4	27033	3	#Max	QPSK	23.63	23.77
LTE Band26	1.4	27033	6	#0	QPSK	22.74	22.88
LTE Band26	1.4	27033	1	#0	16QAM	22.74	22.88
LTE Band26	1.4	27033	1	#Mid	16QAM	22.77	22.91
LTE Band26	1.4	27033	1	#Max	16QAM	22.62	22.76

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LTE Band26 1.4 27033 3 #Mid 16QAM 22.68 22.82 LTE Band26 1.4 27033 3 #Mid 16QAM 22.70 22.84 LTE Band26 1.4 27033 6 #0 16QAM 21.84 21.98 LTE Band26 1.4 27033 6 #0 16QAM 21.84 21.98 LTE Band26 3 26805 1 #0 QPSK 23.89 23.87 LTE Band26 3 26805 1 #Mid QPSK 23.78 23.76 LTE Band26 3 26805 1 #Mid QPSK 23.78 23.76 LTE Band26 3 26805 8 #0 QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 1 #0 QPSK 22.96 22.94 LTE Band26 3 26805 1 #0 QPSK 22.96 22.94 LTE Band26 3 26805 1 #0 QPSK 22.96 22.94 LTE Band26 3 26805 1 #0 QPSK 22.99 22.87 LTE Band26 3 26805 1 #0 QPSK 22.99 22.87 LTE Band26 3 26805 1 #0 16QAM 22.95 22.93 LTE Band26 3 26805 1 #Mid 16QAM 22.81 22.79 LTE Band26 3 26805 8 #0 16QAM 22.81 22.79 LTE Band26 3 26805 8 #Mid 16QAM 21.93 21.91 LTE Band26 3 26805 8 #Mid 16QAM 21.93 21.91 LTE Band26 3 26805 8 #Mid 16QAM 21.83 21.81 LTE Band26 3 26805 8 #Mid QPSK 23.89 23.83 LTE Band26 3 26805 8 #Mid QPSK 23.89 23.63 LTE Band26 3 26805 8 #Mid QPSK 23.99 22.83 LTE Band26 3 26805 15 #0 QPSK 23.09 22.83 LTE Band26 3 26805 8 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.83 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 22.73 LTE Band26 3 26915 8 #Mid QPSK 23.99 24.73 LTE Band26 3 26915 1 #Mid QPSK 23.99 24.73 LTE Band26 3 26915 8 #Mid QPSK 23.89 23.93 LTE Band26 3 26915 8 #Mid QPSK 23.99 24.73 LTE Band26 3 26915 8 #Mid QPSK	RF Test Report No.: R1907A0407-R1									
LTE Band26	LTE Band26	1.4	27033	3	#0	16QAM	22.68	22.82		
LTE Band26	LTE Band26	1.4	27033	3	#Mid	16QAM	22.70	22.84		
LTE Band26 3 26805 1 #0 QPSK 23.89 23.87 LTE Band26 3 26805 1 #Mid QPSK 23.78 23.76 LTE Band26 3 26805 1 #Max QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mo QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.96 22.94 LTE Band26 3 26805 8 #Mid QPSK 22.89 22.87 LTE Band26 3 26805 15 #0 QPSK 22.89 22.87 LTE Band26 3 26805 1 #Mid 16QAM 22.95 22.93 LTE Band26 3 26805 1 #Mid 16QAM 22.81 22.79 LTE Band26 3 26805 8 #Mid 16QAM 21.93 21.91 LTE Band26 3 <	LTE Band26	1.4	27033	3	#Max	16QAM	22.60	22.74		
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LTE Band26 3 26805 8 #0 16QAM 21.93 21.91 LTE Band26 3 26805 8 #Mid 16QAM 21.93 21.91 LTE Band26 3 26805 8 #Max 16QAM 21.83 21.81 LTE Band26 3 26805 15 #0 16QAM 21.79 21.77 LTE Band26 3 26915 1 #0 QPSK 24.04 23.78 LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 23.09 22.73 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26805</td><td>1</td><td>#Mid</td><td>16QAM</td><td>22.81</td><td>22.79</td></td<>	LTE Band26	3	26805	1	#Mid	16QAM	22.81	22.79		
LTE Band26 3 26805 8 #Mid 16QAM 21.93 21.91 LTE Band26 3 26805 8 #Max 16QAM 21.83 21.81 LTE Band26 3 26805 15 #0 16QAM 21.79 21.77 LTE Band26 3 26915 1 #0 QPSK 24.04 23.78 LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 23.09 22.73 LTE Band26 3 26915 1 #0 QPSK 23.04 22.78 LTE Band26 3	LTE Band26	3	26805	1	#Max	16QAM	22.83	22.81		
LTE Band26 3 26805 8 #Max 16QAM 21.83 21.81 LTE Band26 3 26805 15 #0 16QAM 21.79 21.77 LTE Band26 3 26915 1 #0 QPSK 24.04 23.78 LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 23.09 22.83 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.51 23.25 LTE Band26 3 2	LTE Band26	3	26805	8	#0	16QAM	21.93	21.91		
LTE Band26 3 26805 15 #0 16QAM 21.79 21.77 LTE Band26 3 26915 1 #0 QPSK 24.04 23.78 LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 23.09 22.73 LTE Band26 3 26915 1 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26	LTE Band26	3	26805	8	#Mid	16QAM	21.93	21.91		
LTE Band26 3 26915 1 #0 QPSK 24.04 23.78 LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.25 21.96 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26805</td><td>8</td><td>#Max</td><td>16QAM</td><td>21.83</td><td>21.81</td></t<>	LTE Band26	3	26805	8	#Max	16QAM	21.83	21.81		
LTE Band26 3 26915 1 #Mid QPSK 23.89 23.63 LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #Mid 16QAM 22.22 21.96 LTE Band26 3 <	LTE Band26	3	26805	15	#0	16QAM	21.79	21.77		
LTE Band26 3 26915 1 #Max QPSK 23.95 23.69 LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26915</td><td>1</td><td>#0</td><td>QPSK</td><td>24.04</td><td>23.78</td></t<>	LTE Band26	3	26915	1	#0	QPSK	24.04	23.78		
LTE Band26 3 26915 8 #0 QPSK 23.09 22.83 LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 <	LTE Band26	3	26915	1	#Mid	QPSK	23.89	23.63		
LTE Band26 3 26915 8 #Mid QPSK 23.09 22.83 LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 23.25 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3	LTE Band26	3	26915	1	#Max	QPSK	23.95	23.69		
LTE Band26 3 26915 8 #Max QPSK 22.99 22.73 LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.23 21.97 LTE Band26 3 26915 15 #0 16QAM 22.13 21.87 LTE Band26 3 27025 1 #Mid QPSK 23.86 24.00 LTE Band26 3	LTE Band26	3	26915	8	#0	QPSK	23.09	22.83		
LTE Band26 3 26915 15 #0 QPSK 23.04 22.78 LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #Mid QPSK 23.83 23.97 LTE Band26 3	LTE Band26	3	26915	8	#Mid	QPSK	23.09	22.83		
LTE Band26 3 26915 1 #0 16QAM 23.68 23.42 LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.13 21.87 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26915</td><td>8</td><td>#Max</td><td>QPSK</td><td>22.99</td><td>22.73</td></t<>	LTE Band26	3	26915	8	#Max	QPSK	22.99	22.73		
LTE Band26 3 26915 1 #Mid 16QAM 23.51 23.25 LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3	LTE Band26	3	26915	15	#0	QPSK	23.04	22.78		
LTE Band26 3 26915 1 #Max 16QAM 23.56 23.30 LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Max QPSK 22.88 23.02 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26915</td><td>1</td><td>#0</td><td>16QAM</td><td>23.68</td><td>23.42</td></t<>	LTE Band26	3	26915	1	#0	16QAM	23.68	23.42		
LTE Band26 3 26915 8 #0 16QAM 22.22 21.96 LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.83 23.97 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26915</td><td>1</td><td>#Mid</td><td>16QAM</td><td>23.51</td><td>23.25</td></td<>	LTE Band26	3	26915	1	#Mid	16QAM	23.51	23.25		
LTE Band26 3 26915 8 #Mid 16QAM 22.23 21.97 LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26	LTE Band26	3	26915	1	#Max	16QAM	23.56	23.30		
LTE Band26 3 26915 8 #Max 16QAM 22.13 21.87 LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	26915	8	#0	16QAM	22.22	21.96		
LTE Band26 3 26915 15 #0 16QAM 22.08 21.82 LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	26915	8	#Mid	16QAM	22.23	21.97		
LTE Band26 3 27025 1 #0 QPSK 23.86 24.00 LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	26915	8	#Max	16QAM	22.13	21.87		
LTE Band26 3 27025 1 #Mid QPSK 23.99 24.13 LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	26915	15	#0	16QAM	22.08	21.82		
LTE Band26 3 27025 1 #Max QPSK 23.83 23.97 LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	1	#0	QPSK	23.86	24.00		
LTE Band26 3 27025 8 #0 QPSK 22.86 23.00 LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	1	#Mid	QPSK	23.99	24.13		
LTE Band26 3 27025 8 #Mid QPSK 22.88 23.02 LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	1	#Max	QPSK	23.83	23.97		
LTE Band26 3 27025 8 #Max QPSK 22.75 22.89 LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	8	#0	QPSK	22.86	23.00		
LTE Band26 3 27025 15 #0 QPSK 22.77 22.91 LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	8	#Mid	QPSK	22.88	23.02		
LTE Band26 3 27025 1 #0 16QAM 22.90 23.04 LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	8	#Max	QPSK	22.75	22.89		
LTE Band26 3 27025 1 #Mid 16QAM 22.82 22.96	LTE Band26	3	27025	15	#0	QPSK	22.77	22.91		
	LTE Band26	3	27025	1	#0	16QAM	22.90	23.04		
LTE Bond 26 2 27025 4 #May 400 AM 00 07 00 04	LTE Band26	3	27025	1	#Mid	16QAM	22.82	22.96		
LIE Daliuzo 3 2/025 1 #IVIAX 16QAIVI 22.87 23.01	LTE Band26	3	27025	1	#Max	16QAM	22.87	23.01		

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KFIE	est Report	перс	ort No.: K1907	AU407-N1			
LTE Band26	3	27025	8	#0	16QAM	22.06	22.20
LTE Band26	3	27025	8	#Mid	16QAM	21.96	22.10
LTE Band26	3	27025	8	#Max	16QAM	21.91	22.05
LTE Band26	3	27025	15	#0	16QAM	21.76	21.90
LTE Band26	5	26815	1	#0	QPSK	23.66	24.04
LTE Band26	5	26815	1	#Mid	QPSK	23.67	24.05
LTE Band26	5	26815	1	#Max	QPSK	23.60	23.98
LTE Band26	5	26815	12	#0	QPSK	22.77	23.15
LTE Band26	5	26815	12	#Mid	QPSK	22.78	23.16
LTE Band26	5	26815	12	#Max	QPSK	22.74	23.12
LTE Band26	5	26815	25	#0	QPSK	22.82	23.20
LTE Band26	5	26815	1	#0	16QAM	23.23	23.61
LTE Band26	5	26815	1	#Mid	16QAM	23.04	23.42
LTE Band26	5	26815	1	#Max	16QAM	23.00	23.38
LTE Band26	5	26815	12	#0	16QAM	21.69	22.07
LTE Band26	5	26815	12	#Mid	16QAM	21.70	22.08
LTE Band26	5	26815	12	#Max	16QAM	21.65	22.03
LTE Band26	5	26815	25	#0	16QAM	21.86	22.24
LTE Band26	5	26915	1	#0	QPSK	23.86	23.60
LTE Band26	5	26915	1	#Mid	QPSK	23.76	23.50
LTE Band26	5	26915	1	#Max	QPSK	23.55	23.29
LTE Band26	5	26915	12	#0	QPSK	23.04	22.78
LTE Band26	5	26915	12	#Mid	QPSK	23.04	22.78
LTE Band26	5	26915	12	#Max	QPSK	22.94	22.68
LTE Band26	5	26915	25	#0	QPSK	22.94	22.68
LTE Band26	5	26915	1	#0	16QAM	22.99	22.73
LTE Band26	5	26915	1	#Mid	16QAM	23.05	22.79
LTE Band26	5	26915	1	#Max	16QAM	22.88	22.62
LTE Band26	5	26915	12	#0	16QAM	21.89	21.63
LTE Band26	5	26915	12	#Mid	16QAM	21.75	21.49
LTE Band26	5	26915	12	#Max	16QAM	21.56	21.30
LTE Band26	5	26915	25	#0	16QAM	21.77	21.51
LTE Band26	5	27015	1	#0	QPSK	23.83	23.97
LTE Band26	5	27015	1	#Mid	QPSK	23.74	23.88
LTE Band26	5	27015	1	#Max	QPSK	23.63	23.77
LTE Band26	5	27015	12	#0	QPSK	22.88	23.02
LTE Band26	5	27015	12	#Mid	QPSK	22.89	23.03
LTE Band26	5	27015	12	#Max	QPSK	22.63	22.77
LTE Band26	5	27015	25	#0	QPSK	22.78	22.92
LTE Band26	5	27015	1	#0	16QAM	22.84	22.98
LTE Band26	5	27015	1	#Mid	16QAM	22.58	22.72
LTE Band26	5	27015	1	#Max	16QAM	22.72	22.86

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RF Test Report No.: R1907A0407-R1									
LTE Band26	5	27015	12	#0	16QAM	21.98	22.12		
LTE Band26	5	27015	12	#Mid	16QAM	21.89	22.03		
LTE Band26	5	27015	12	#Max	16QAM	21.76	21.90		
LTE Band26	5	27015	25	#0	16QAM	21.70	21.84		
LTE Band26	10	26840	1	#0	QPSK	23.72	23.70		
LTE Band26	10	26840	1	#Mid	QPSK	23.70	23.68		
LTE Band26	10	26840	1	#Max	QPSK	23.75	23.73		
LTE Band26	10	26840	25	#0	QPSK	22.87	22.85		
LTE Band26	10	26840	25	#Mid	QPSK	22.85	22.83		
LTE Band26	10	26840	25	#Max	QPSK	22.91	22.89		
LTE Band26	10	26840	50	#0	QPSK	22.89	22.87		
LTE Band26	10	26840	1	#0	16QAM	22.92	22.90		
LTE Band26	10	26840	1	#Mid	16QAM	23.18	23.16		
LTE Band26	10	26840	1	#Max	16QAM	22.98	22.96		
LTE Band26	10	26840	25	#0	16QAM	21.76	21.74		
LTE Band26	10	26840	25	#Mid	16QAM	21.76	21.74		
LTE Band26	10	26840	25	#Max	16QAM	21.90	21.88		
LTE Band26	10	26840	50	#0	16QAM	21.73	21.71		
LTE Band26	10	26915	1	#0	QPSK	23.93	23.67		
LTE Band26	10	26915	1	#Mid	QPSK	24.19	23.93		
LTE Band26	10	26915	1	#Max	QPSK	23.57	23.31		
LTE Band26	10	26915	25	#0	QPSK	22.96	22.70		
LTE Band26	10	26915	25	#Mid	QPSK	22.96	22.70		
LTE Band26	10	26915	25	#Max	QPSK	22.79	22.53		
LTE Band26	10	26915	50	#0	QPSK	22.94	22.68		
LTE Band26	10	26915	1	#0	16QAM	23.24	22.98		
LTE Band26	10	26915	1	#Mid	16QAM	23.41	23.15		
LTE Band26	10	26915	1	#Max	16QAM	23.35	23.09		
LTE Band26	10	26915	25	#0	16QAM	22.02	21.76		
LTE Band26	10	26915	25	#Mid	16QAM	22.03	21.77		
LTE Band26	10	26915	25	#Max	16QAM	21.85	21.59		
LTE Band26	10	26915	50	#0	16QAM	21.78	21.52		
LTE Band26	10	26990	1	#0	QPSK	23.66	23.40		
LTE Band26	10	26990	1	#Mid	QPSK	23.92	23.66		
LTE Band26	10	26990	1	#Max	QPSK	23.61	23.35		
LTE Band26	10	26990	25	#0	QPSK	22.79	22.53		
LTE Band26	10	26990	25	#Mid	QPSK	22.80	22.54		
LTE Band26	10	26990	25	#Max	QPSK	22.79	22.53		
LTE Band26	10	26990	50	#0	QPSK	22.83	22.57		
LTE Band26	10	26990	1	#0	16QAM	22.41	22.15		
LTE Band26	10	26990	1	#Mid	16QAM	22.61	22.35		
LTE Band26	10	26990	1	#Max	16QAM	22.16	21.90		

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O KFTE	est Report				керс	rt No.: K1907	A0407-N1
LTE Band26	10	26990	25	#0	16QAM	21.89	21.63
LTE Band26	10	26990	25	#Mid	16QAM	21.64	21.38
LTE Band26	10	26990	25	#Max	16QAM	21.78	21.52
LTE Band26	10	26990	50	#0	16QAM	21.77	21.51
LTE Band26	15	26865	1	#0	QPSK	23.74	23.72
LTE Band26	15	26865	1	#Mid	QPSK	23.92	23.90
LTE Band26	15	26865	1	#Max	QPSK	23.70	23.68
LTE Band26	15	26865	36	#0	QPSK	22.84	22.82
LTE Band26	15	26865	36	#Mid	QPSK	22.84	22.82
LTE Band26	15	26865	36	#Max	QPSK	22.97	22.95
LTE Band26	15	26865	75	#0	QPSK	22.84	22.82
LTE Band26	15	26865	1	#0	16QAM	23.02	23.00
LTE Band26	15	26865	1	#Mid	16QAM	23.51	23.49
LTE Band26	15	26865	1	#Max	16QAM	22.91	22.89
LTE Band26	15	26865	36	#0	16QAM	21.91	21.89
LTE Band26	15	26865	36	#Mid	16QAM	21.86	21.84
LTE Band26	15	26865	36	#Max	16QAM	21.86	21.84
LTE Band26	15	26865	75	#0	16QAM	21.73	21.71
LTE Band26	15	26915	1	#0	QPSK	23.87	23.61
LTE Band26	15	26915	1	#Mid	QPSK	24.08	23.82
LTE Band26	15	26915	1	#Max	QPSK	23.68	23.42
LTE Band26	15	26915	36	#0	QPSK	22.88	22.62
LTE Band26	15	26915	36	#Mid	QPSK	22.92	22.66
LTE Band26	15	26915	36	#Max	QPSK	22.81	22.55
LTE Band26	15	26915	75	#0	QPSK	22.85	22.59
LTE Band26	15	26915	1	#0	16QAM	23.30	23.04
LTE Band26	15	26915	1	#Mid	16QAM	23.39	23.13
LTE Band26	15	26915	1	#Max	16QAM	23.29	23.03
LTE Band26	15	26915	36	#0	16QAM	22.05	21.79
LTE Band26	15	26915	36	#Mid	16QAM	22.06	21.80
LTE Band26	15	26915	36	#Max	16QAM	21.58	21.32
LTE Band26	15	26915	75	#0	16QAM	21.76	21.50
LTE Band26	15	26965	1	#0	QPSK	23.87	23.61
LTE Band26	15	26965	1	#Mid	QPSK	23.65	23.39
LTE Band26	15	26965	1	#Max	QPSK	23.62	23.36
LTE Band26	15	26965	36	#0	QPSK	22.87	22.61
LTE Band26	15	26965	36	#Mid	QPSK	22.87	22.61
LTE Band26	15	26965	36	#Max	QPSK	22.76	22.50
LTE Band26	15	26965	75	#0	QPSK	22.79	22.53
LTE Band26	15	26965	1	#0	16QAM	22.76	22.50
LTE Band26	15	26965	1	#Mid	16QAM	22.30	22.04
LTE Band26	15	26965	1	#Max	16QAM	22.27	22.01
	·						

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<	RF Test Report No.: R1907A0407-R1								
	LTE Band26	15	26965	36	#0	16QAM	21.91	21.65	
	LTE Band26	15	26965	36	#Mid	16QAM	21.86	21.60	
	LTE Band26	15	26965	36	#Max	16QAM	21.74	21.48	
	LTE Band26	15	26965	75	#0	16QAM	21.87	21.61	l

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

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

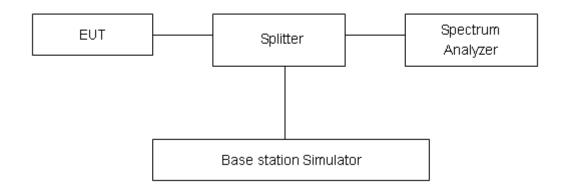
RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 26 (5MHz),

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

RBW is set to 300 kHz, VBW is set to 910kHz for LTE Band 26 (15MHz).

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.



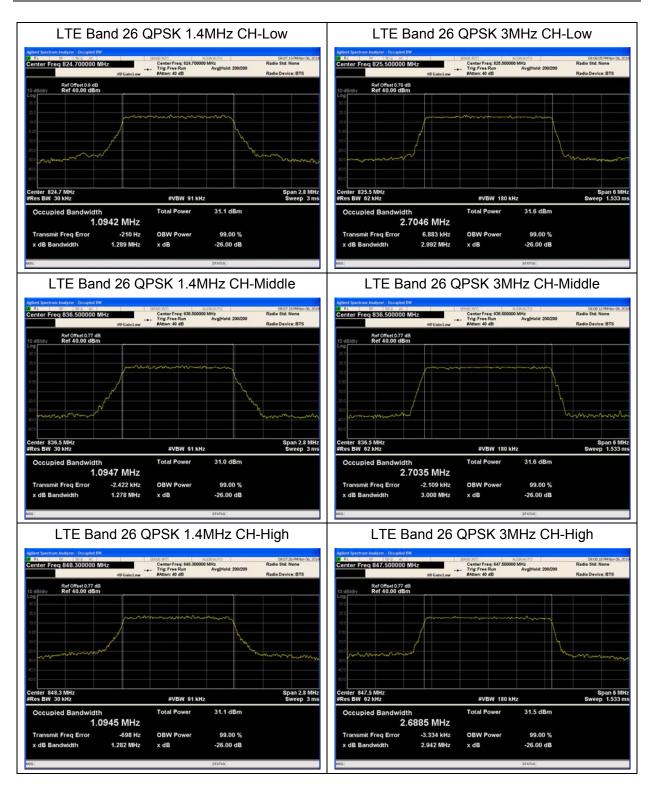
Test Result

	LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
			26797	824.7	1.0942	1.289	
		1.4	26915	836.5	1.0947	1.278	
			27033	848.3	1.0945	1.282	
			26805	825.5	2.7046	2.992	
		3	26915	836.5	2.7035	3.008	
			27025	847.5	2.6885	2.942	
			26815	826.5	4.4894	4.948	
	QPSK	5	26915	836.5	4.5199	5.000	
			27015	846.5	4.5147	4.989	
			26840	829	8.9827	9.923	
		10	26915	836.5	8.9517	9.884	
			26990	844	8.9541	9.718	
		15	26865	831.5	13.4420	14.490	
			26915	836.5	13.4070	14.630	
100%			26965	841.5	13.4130	14.580	
100%		1.4	26797	824.7	1.0986	1.286	
			26915	836.5	1.0922	1.271	
			27033	848.3	1.0951	1.280	
			26805	825.5	2.7009	2.997	
			26915	836.5	2.7031	2.965	
			27025	847.5	2.6977	2.984	
			26815	826.5	4.5095	4.994	
	16QAM	5	26915	836.5	4.4889	4.979	
			27015	846.5	4.5059	4.963	
			26840	829	8.9680	9.797	
		10	26915	836.5	8.9635	9.781	
			26990	844	8.9475	9.702	
			26865	831.5	13.4350	14.520	
		15	26915	836.5	13.4290	14.500	
			26965	841.5	13.4040	14.550	

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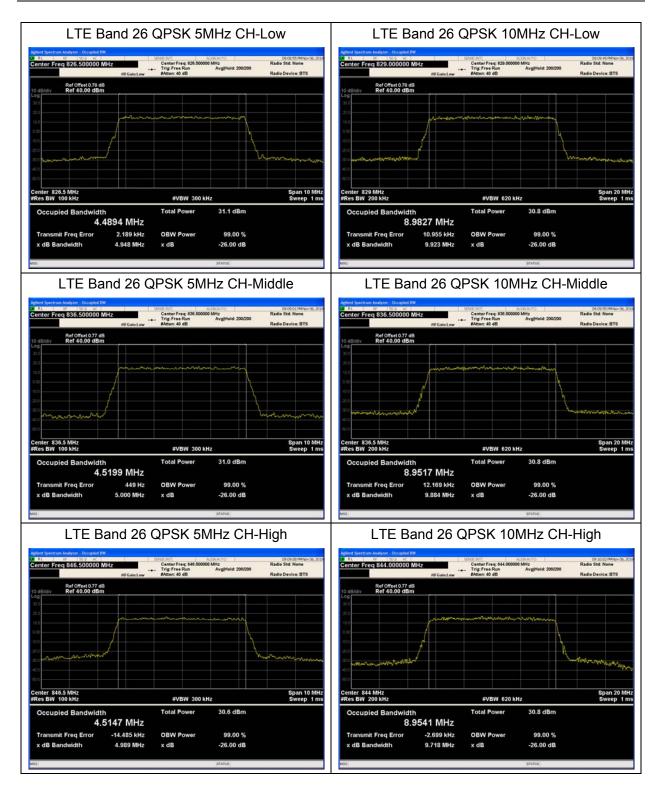






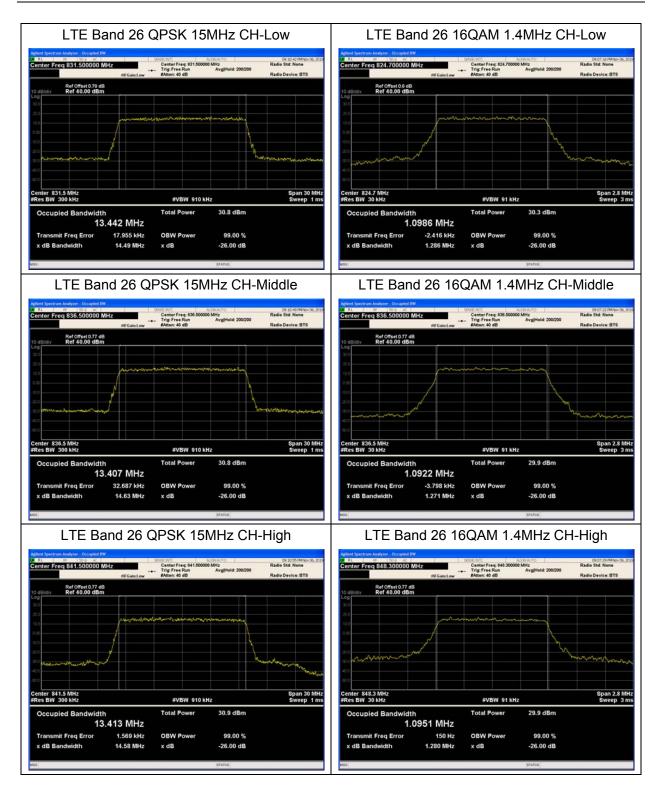






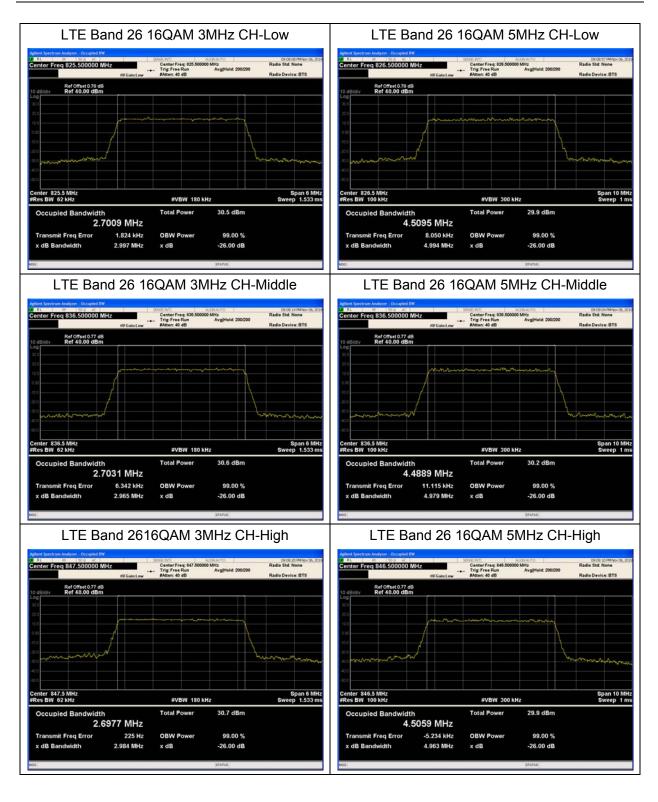






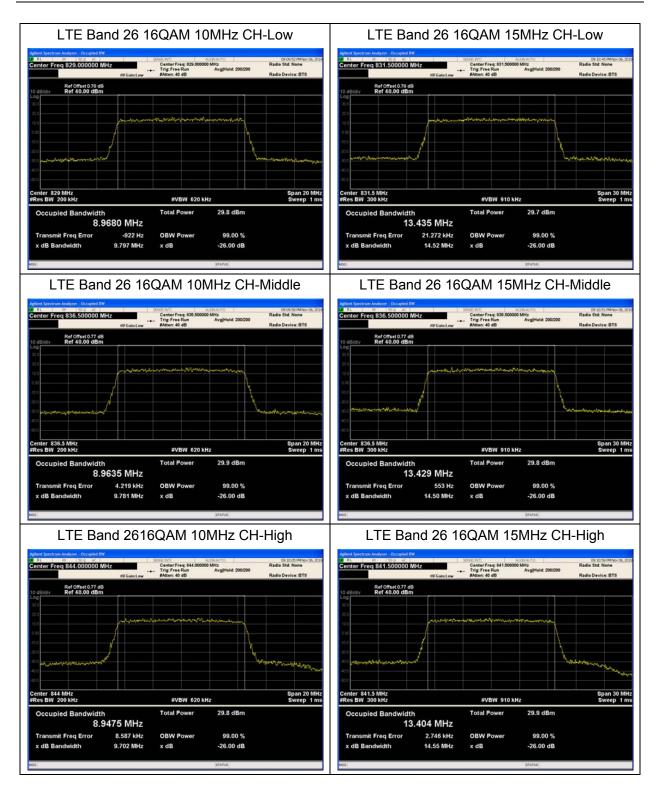














5.3. Band Edge Compliance

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 15kHz, VBW is set to 43kHz for LTE Band 26 (1.4MHz),

RBW is set to 30kHz, VBW is set to 91kHz for LTE Band 26 (3MHz),

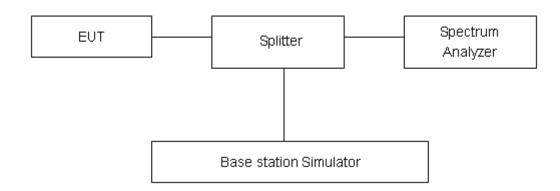
RBW is set to 51kHz, VBW is set to 150kHz for LTE Band 26 (5MHz),

RBW is set to 100kHz, VBW is set to 300kHz for LTE Band 26 (10MHz).

RBW is set to 150kHz, VBW is set to 470kHz for LTE Band 26 (15MHz).

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

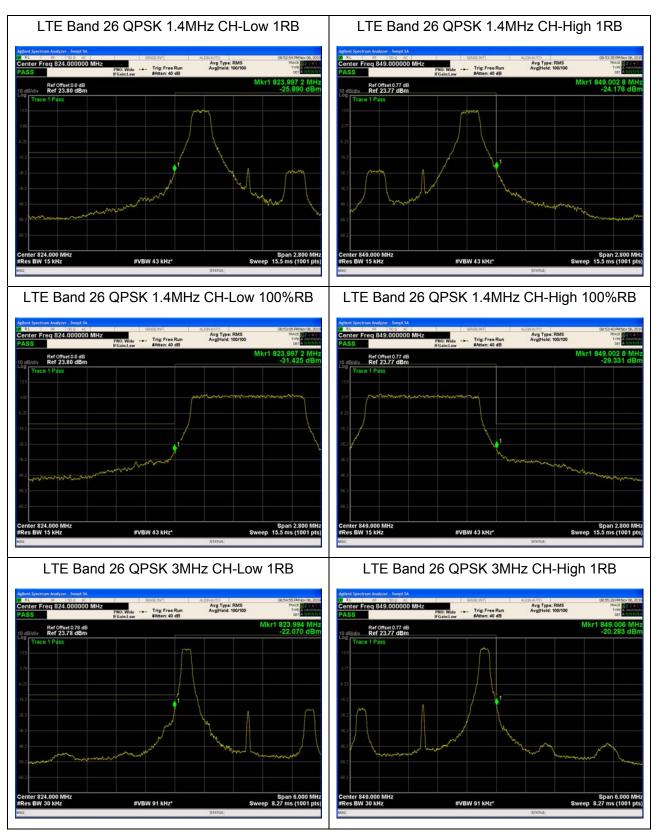
Measurement Uncertainty

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

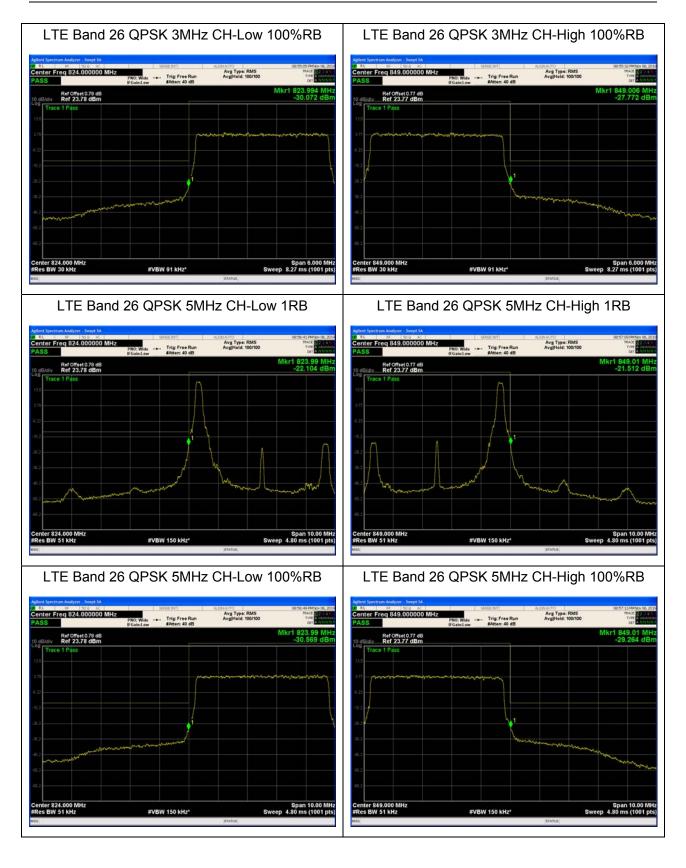




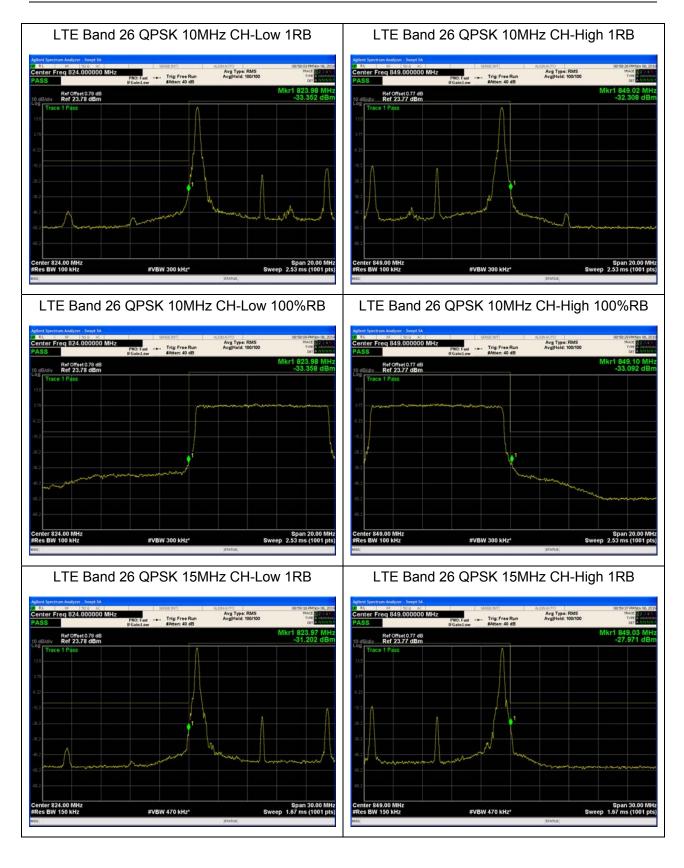
Test Result:













LTE Band 26 QPSK 15MHz CH-Low 100%RB LTE Band 26 QPSK 15MHz CH-High 100%RB Avg Type: RMS Avg[Hold: 100/100 Avg Type: RMS Avg[Hold: 100/100 Ref Offset 0.77 dB Ref 23.77 dBm Ref Offset 0.78 dB Ref 23.78 dBm Span 30.00 MHz Sweep 1.67 ms (1001 pts) LTE Band 26 16QAM 1.4MHz CH-Low 1RB LTE Band 26 16QAM 1.4MHz CH-High 1RB Avg Type: RMS Avg|Hold: 100/100 Avg Type: RMS Avg|Hold: 100/100 Ref Offset 0.8 dB Ref 23,80 dBm Ref Offset 0.77 dB Ref 23,77 dBm Span 2.800 MH Sweep 15.5 ms (1001 pt Span 2.800 MHz eep 15.5 ms (1001 pts) #VBW 43 kHz* LTE Band 26 16QAM 1.4MHz CH-Low 100%RB LTE Band 26 16QAM 1.4MHz CH-High 100%RB Avg Type: RMS Avg|Hold: 100/100 Ref Offset 0.8 dB Ref 23.80 dBm Ref Offset 0.77 dB Ref 23.77 dBm

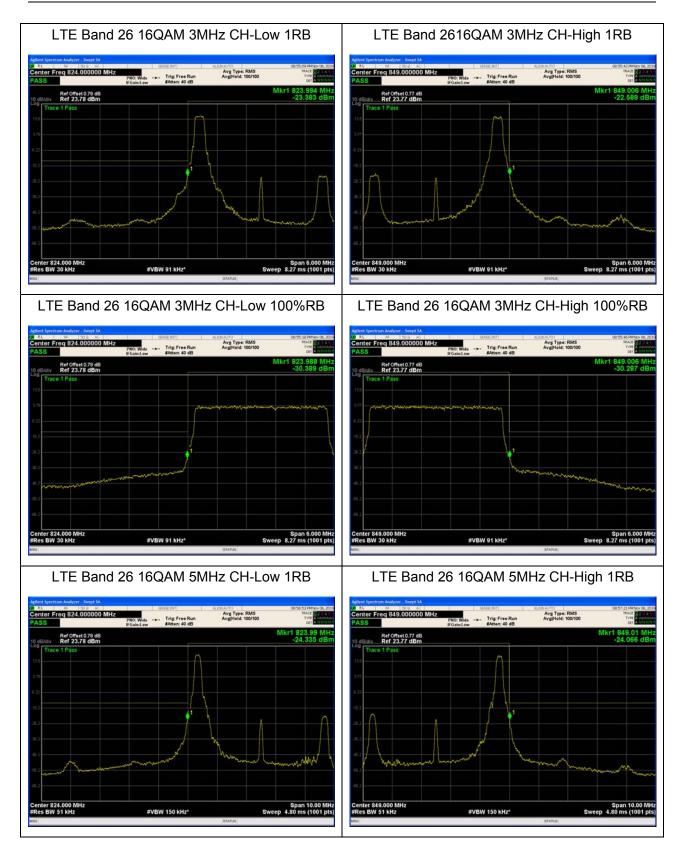
enter 849.000 MHz Res BW 15 kHz

Span 2.800 M Sweep 15.5 ms (1001 p

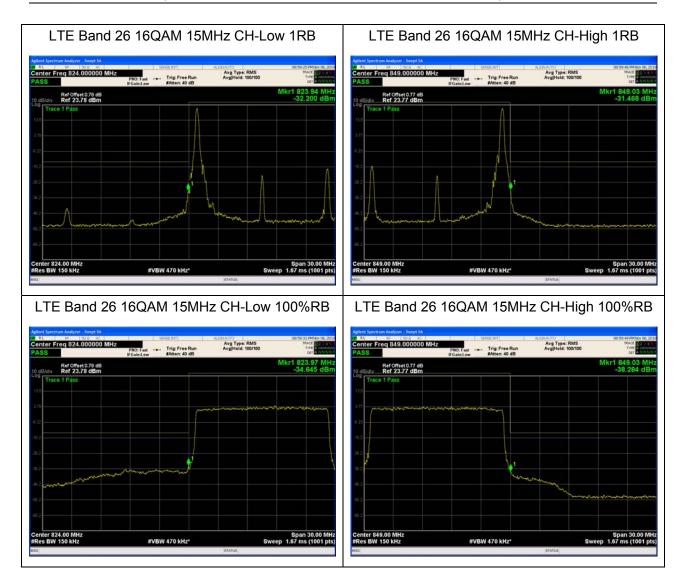
Report No.: R1907A0407-R1

Span 2.800 M ep 15.5 ms (1001 p









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

Ambient condition

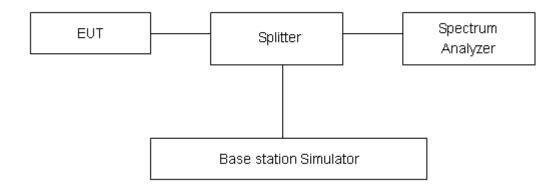
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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

LTE Band 26								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
		26797	824.7	28.38	23.10	5.28	≤13	PASS
	1.4	26915	836.5	28.05	23.00	5.05	≤13	PASS
		27033	848.3	27.46	22.91	4.55	≤13	PASS
		26805	825.5	28.45	23.07	5.38	≤13	PASS
	3	26915	836.5	28.22	23.10	5.12	≤13	PASS
		27025	847.5	27.49	22.92	4.57	≤13	PASS
		26815	826.5	28.41	23.07	5.34	≤13	PASS
QPSK	5	26915	836.5	28.22	23.11	5.11	≤13	PASS
		27015	846.5	27.62	22.91	4.71	≤13	PASS
		26840	829	28.28	22.96	5.32	≤13	PASS
	10	26915	836.5	28.17	22.99	5.18	≤13	PASS
		26990	844	27.87	22.95	4.92	≤13	PASS
	15	26865	831.5	28.48	23.07	5.41	≤13	PASS
		26915	836.5	28.33	22.98	5.35	≤13	PASS
		26965	841.5	28.19	22.97	5.22	≤13	PASS
		26797	824.7	28.28	22.17	6.11	≤13	PASS
	1.4	26915	836.5	28.24	22.33	5.91	≤13	PASS
		27033	848.3	27.44	22.05	5.39	≤13	PASS
		26805	825.5	28.32	22.14	6.18	≤13	PASS
	3	26915	836.5	27.94	21.96	5.98	≤13	PASS
		27025	847.5	27.36	21.88	5.48	≤13	PASS
		26815	826.5	28.15	22.02	6.13	≤13	PASS
16QAM	5	26915	836.5	27.97	22.05	5.92	≤13	PASS
		27015	846.5	27.42	21.86	5.56	≤13	PASS
		26840	829	28.04	21.89	6.15	≤13	PASS
	10	26915	836.5	27.99	22.02	5.97	≤13	PASS
		26990	844	27.82	22.01	5.81	≤13	PASS
		26865	831.5	28.19	22.03	6.16	≤13	PASS
	15	26915	836.5	28.22	22.12	6.10	≤13	PASS
		26965	841.5	28.00	22.04	5.96	≤13	PASS

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 -40°C to +85°C in 10°C step size,

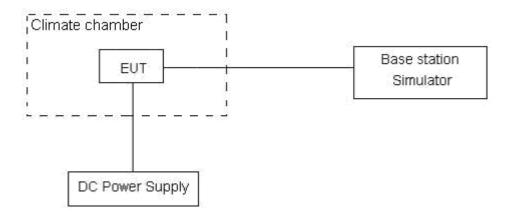
- (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
- (2) Measure the carrier frequency with the test equipment in a "call mode". These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from -40°C to +85°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:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage 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 3.3 V and 4.3 V, with a nominal voltage of 3.8V.

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.

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 Result

LTE Band 26							
Condition BANDWIDTH 15MHz		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict	
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK		
Normal (25°C)	voitage	4.73	13.70	0.00251	0.00729	PASS	
Extreme (85°C)		12.65	9.10	0.00673	0.00484	PASS	
Extreme (80°C)		10.29	16.47	0.00548	0.00876	PASS	
Extreme (70°C)		17.51	1.65	0.00931	0.00088	PASS	
Extreme (60°C)		16.27	12.80	0.00865	0.00681	PASS	
Extreme (50°C)		1.58	4.74	0.00084	0.00252	PASS	
Extreme (40°C)		8.84	11.22	0.00470	0.00597	PASS	
Extreme (30°C)	Normal	4.78	17.90	0.00254	0.00952	PASS	
Extreme (20°C)		6.81	17.40	0.00362	0.00925	PASS	
Extreme (10°C)		5.28	13.61	0.00281	0.00724	PASS	
Extreme (0°C)		7.49	8.64	0.00398	0.00459	PASS	
Extreme (-10°C)		17.99	14.75	0.00957	0.00784	PASS	
Extreme (-20°C)		1.54	1.75	0.00082	0.00093	PASS	
Extreme (-30°C)		9.88	1.40	0.00525	0.00074	PASS	
Extreme (-40°C)		15.77	4.81	0.00839	0.00256	PASS	
25℃	LV	8.38	6.35	0.00446	0.00338	PASS	
25 C	HV	10.95	11.71	0.00583	0.00623	PASS	

5.6. Spurious Emissions at Antenna Terminals

Ambient condition

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

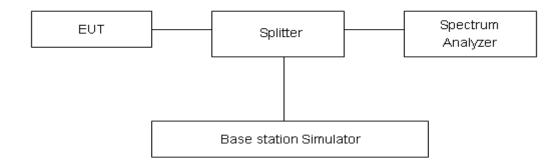
Method of Measurement

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.

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-18GHz	1.407 dB

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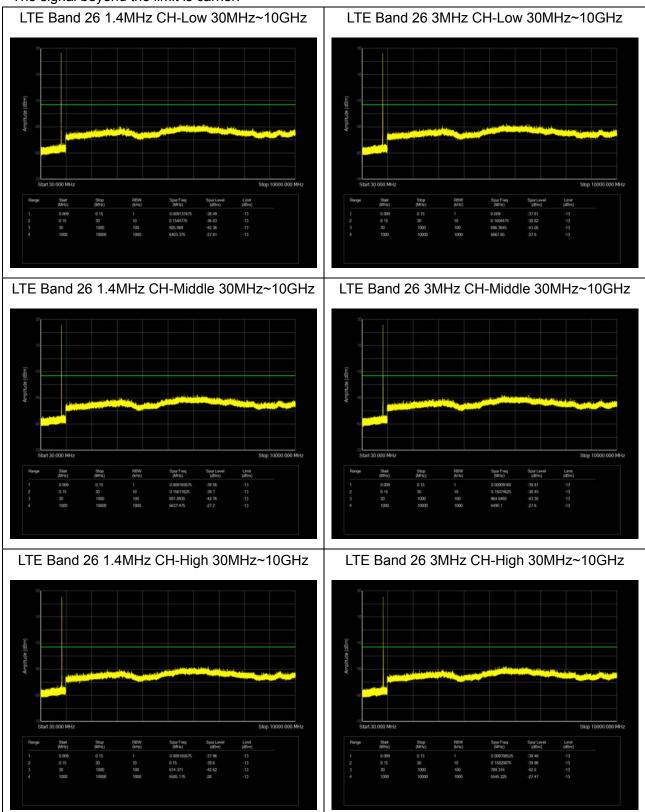
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Test Result

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.

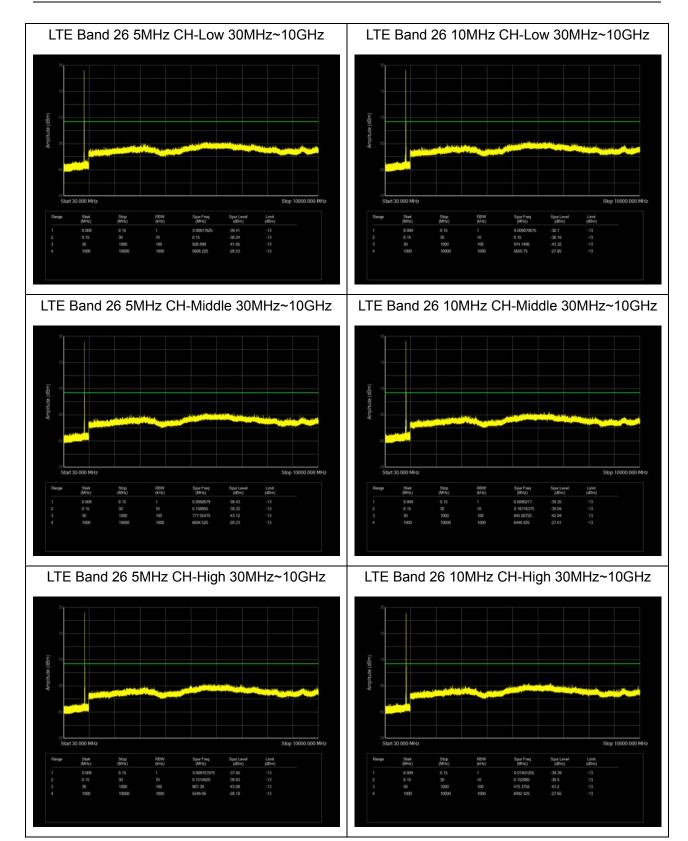
The signal beyond the limit is carrier.

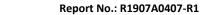


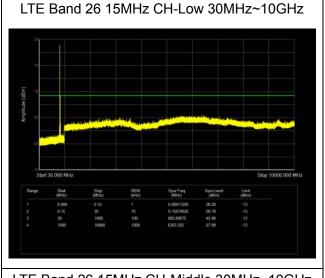
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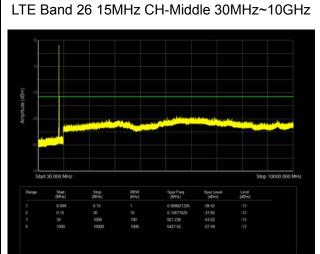


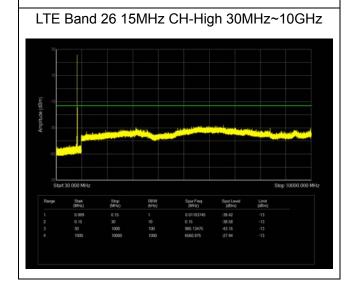














5.7. Radiates Spurious Emission

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=200Hz,VBW=600Hz for 9kHz150kHz, RBW=10kHz, VBW=30kHz 150kHz-30MHz, RBW=100kHz,VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, And the maximum value of the receiver should be recorded as (Pr). 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for
- the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,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

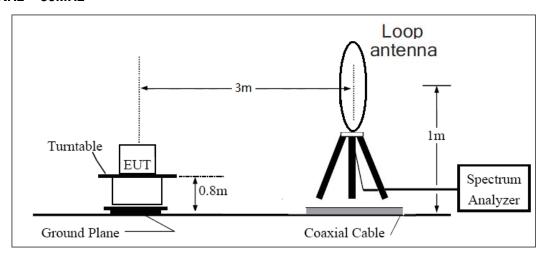
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi)

and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = FIRP-2 15dRi

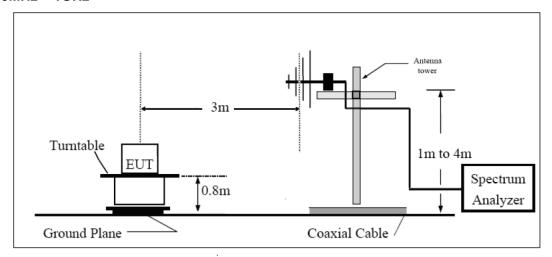
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

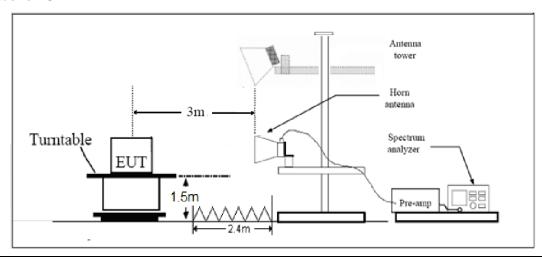
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



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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."

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 Result

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

LTE Band 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	1663.00	-60.53	2.00	10.75	Horizontal	-53.93	-13.00	40.93	0
3	2494.50	-53.04	2.51	11.05	Horizontal	-46.65	-13.00	33.65	90
4	3326.00	-63.55	4.20	11.15	Horizontal	-58.75	-13.00	45.75	90
5	4157.50	-59.70	5.20	11.15	Horizontal	-55.90	-13.00	42.90	45
6	4989.00	-59.29	5.50	11.95	Horizontal	-54.99	-13.00	41.99	135
7	5820.50	-60.19	5.70	13.55	Horizontal	-54.49	-13.00	41.49	0
8	6652.00	-58.96	6.30	13.75	Horizontal	-53.66	-13.00	40.66	45
9	7483.50	-56.43	6.80	13.85	Horizontal	-51.53	-13.00	38.53	90
10	8315.00	-56.21	6.90	14.25	Horizontal	-51.01	-13.00	38.01	180

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

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	1663.00	-63.10	2.00	10.75	Horizontal	-56.50	-13.00	43.50	45
3	2494.50	-54.71	2.51	11.05	Horizontal	-48.32	-13.00	35.32	135
4	3326.00	-62.81	4.20	11.15	Horizontal	-58.01	-13.00	45.01	135
5	4157.50	-60.59	5.20	11.15	Horizontal	-56.79	-13.00	43.79	315
6	4989.00	-58.96	5.50	11.95	Horizontal	-54.66	-13.00	41.66	90
7	5820.50	-60.54	5.70	13.55	Horizontal	-54.84	-13.00	41.84	45
8	6652.00	-57.41	6.30	13.75	Horizontal	-52.11	-13.00	39.11	90
9	7483.50	-55.47	6.80	13.85	Horizontal	-50.57	-13.00	37.57	180
10	8315.00	-55.40	6.90	14.25	Horizontal	-50.20	-13.00	37.20	270

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

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

^{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	1663.00	-60.56	2.00	10.75	Horizontal	-53.96	-13.00	40.96	315
3	2494.50	-57.64	2.51	11.05	Horizontal	-51.25	-13.00	38.25	270
4	3326.00	-62.53	4.20	11.15	Horizontal	-57.73	-13.00	44.73	180
5	4157.50	-60.72	5.20	11.15	Horizontal	-56.92	-13.00	43.92	135
6	4989.00	-59.69	5.50	11.95	Horizontal	-55.39	-13.00	42.39	45
7	5820.50	-61.07	5.70	13.55	Horizontal	-55.37	-13.00	42.37	90
8	6652.00	-58.09	6.30	13.75	Horizontal	-52.79	-13.00	39.79	180
9	7483.50	-55.99	6.80	13.85	Horizontal	-51.09	-13.00	38.09	0
10	8315.00	-55.05	6.90	14.25	Horizontal	-49.85	-13.00	36.85	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.





6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2019-05-19	2020-05-18
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	1	1
Spectrum Analyzer	Key sight	N9010A	MY50210259	2019-05-19	2020-05-18
Universal Radio Communication Tester	Key sight	E5515C	MY48367192	2019-05-19	2020-05-18
Signal Analyzer	R&S	FSV30	100815	2018-12-16	2019-12-15
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2020-09-25
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	100126	2018-07-07	2020-07-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2020-06-19
Signal generator	R&S	SMB 100A	102594	2019-05-19	2020-05-18
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
Preampflier	R&S	SCU18	102327	2019-05-19	2020-05-18
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2019-05-20	2020-05-21
RF Cable	Agilent	SMA 15cm	0001	2019-06-14	2019-12-13
Software	R&S	EMC32	9.26.0	1	1

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