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FCC LTE REPORT

Certification

Applicant Name: Date of Issue:

SAMSUNG Electronics Co., Ltd. August 19, 2021

Location:

Address: HCT CO., LTD.,

129, Samsung-ro, Yeongtong-gu, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-2108-FC017

FCC ID: A3LSMM526B

APPLICANT: SAMSUNG Electronics Co., Ltd.

Model(s): SM-M526B/DS EUT Type: Mobile Phone

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s): §22, §2

No. de	T. F.	F		El	RP
Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Max. Power (W)	Max. Power (dBm)
		1M09G7D	QPSK	0.081	19.07
LTE - Band26 (1.4)	824.7 – 848.3	1M09W7D	16QAM	0.068	18.35
		1M09W7D	64QAM	0.054	17.35
		2M71G7D	QPSK	0.082	19.15
LTE - Band26 (3)	825.5 - 847.5	2M70W7D	16QAM	0.070	18.44
		2M70W7D	64QAM	0.054	17.35
		4M51G7D	QPSK	0.083	19.20
LTE – Band26 (5)	826.5 - 846.5	4M50W7D	16QAM	0.071	18.53
		4M51W7D	64QAM	0.055	17.39
		8M99G7D	QPSK	0.084	19.24
LTE – Band26 (10)	829.0 - 844.0	8M98W7D	16QAM	0.073	18.64
		8M99W7D	64QAM	0.057	17.58
		13 M5G7D	QPSK	0.081	19.09
LTE – Band26 (15)	831.5 – 841.5	13 M5W7D	16QAM	0.071	18.52
		13 M5W7D	64QAM	0.054	17.34

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



FCC ID: A3LSMM526B

REVIEWED BY

4 Mes.

Report prepared by: Jae Mun Do **Engineer of Telecommunication Testing Center**

Report approved by: Kwon Jeong Manager of Telecommunication Testing Center

This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked *. The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2108-FC017	August 19, 2021	- First Approval Report

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.



Table of Contents

REVIEWED BY	2
1. GENERAL INFORMATION	5
2. INTRODUCTION	6
2.1. DESCRIPTION OF EUT	6
2.2. MEASURING INSTRUMENT CALIBRATION	6
2.3. TEST FACILITY	6
3. DESCRIPTION OF TESTS	7
3.1 TEST PROCEDURE	7
3.2 RADIATED POWER	8
3.3 RADIATED SPURIOUS EMISSIONS	9
3.4 OCCUPIED BANDWIDTH1	0
3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL1	11
3.6 BAND EDGE	2
3.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 1	3
3.8 WORST CASE(RADIATED TEST)1	4
3.9 WORST CASE(CONDUCTED TEST)	5
4. LIST OF TEST EQUIPMENT 1	6
5. MEASUREMENT UNCERTAINTY	7
6. SUMMARY OF TEST RESULTS 1	8
7. SAMPLE CALCULATION 1	9
8. TEST DATA	21
8.1 EFFECTIVE RADIATED POWER2	21
8.2 RADIATED SPURIOUS EMISSIONS2	24
8.3 OCCUPIED BANDWIDTH2	25
8.4 CONDUCTED SPURIOUS EMISSIONS2	26
8.5 BAND EDGE	26
8.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 2	27
9. TEST PLOTS	32
10. ANNEX A_ TEST SETUP PHOTO9)3



MEASUREMENT REPORT

1. GENERAL INFORMATION

A 11 (A)	CAMCUNIC Floatronics Co. Ltd.
Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMM526B
Application Type:	Certification
71	
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
	. 00 2.00.1004 114.11014 10 24.1 (1 02)
FCC Rule Part(s):	§22, §2
1 00 1(0).	3—, 3—
EUT Type:	Mobile Phone
Lot type.	Mobile i Horie
Medal/a).	SM-M526B/DS
Model(s):	3W-W320D/D3
To Francisco	024 7 MHz 040 2 MHz /LTC Don't 20 (4 4 MHz)
Tx Frequency:	824.7 MHz – 848.3 MHz (LTE – Band 26 (1.4 MHz))
	825.5 MHz – 847.5 MHz (LTE – Band 26 (3 MHz))
	826.5 MHz – 846.5 MHz (LTE – Band 26 (5 MHz))
	829.0 MHz – 844.0 MHz (LTE – Band 26 (10 MHz))
	831.5 MHz – 841.5 MHz (LTE – Band 26 (15 MHz))
Date(s) of Tests:	July 19, 2021 ~ August 17, 2021
. ,	
Serial number:	Radiated: R3CR41328YL
	Conducted: R3CR60JBG9Z
	0011440104.11001.0002002



2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub6.

It also supports IEEE 802.11 a/b/g/n/ac/ax (HT20/40/80), Bluetooth, BT LE, NFC.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.



3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occursied Benduidable	- KDB 971168 D01 v03r01 – Section 4.3
Occupied Bandwidth	- ANSI C63.26-2015 – Section 5.4.4
Pand Edga	- KDB 971168 D01 v03r01 – Section 6.0
Band Edge	- ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna	- KDB 971168 D01 v03r01 – Section 6.0
Terminal	- ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Effective Radiated Power/	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8
Effective Isotropic Radiated Power	- ANSI/TIA-603-E-2016 – Section 2.2.17
Padiated Sourious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2
Radiated Spurious and Harmonic Emissions	- ANSI/TIA-603-E-2016 – Section 2.2.12



3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

Test Settings

- Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
- 2. RBW = 1-5 % of the expected OBW, not to exceed 1 MHz
- 3. VBW ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points > 2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

Test Note

- 1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
- 2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.

These steps are repeated with the receiving antenna in both vertical and horizontal polarization, the difference

between the gain of the horn and an isotropic antenna are taken into consideration

- 4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- 5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.



3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603-E-2016.

Test Settings

- 1. RBW = 100 kHz for emissions below 1 GHz and 1MHz for emissions above 1 GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x span / RBW
- 5. Detector = Peak
- 6. Trace mode = Max Hold
- 7. The trace was allowed to stabilize
- 8. Test channel: Low/ Middle/ High
- 9. Frequency range: We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

- Measurements value show only up to 3 maximum emissions noted, or would be lesser
 if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit)
 and considered that's already beyond the background noise floor.
- 2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.

 The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
- 3. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The spurious emissions is calculated by the following formula;

Result (dBm) = Pg (dBm) - cable loss (dB) + antenna gain (dBi)

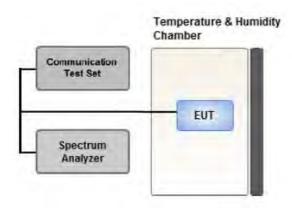
Where: Pgis the generator output power into the substitution antenna.

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

 $EIRP_{(dBm)} = ERP_{(dBm)} + 2.15$



3.4 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

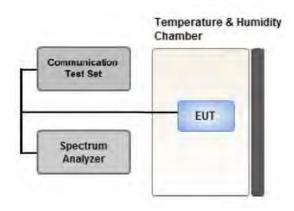
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5 % of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within
 - 1 5 % of the 99 % occupied bandwidth observed in Step 7



3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

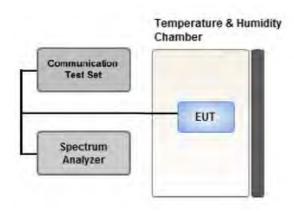
All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

- 1. RBW = 1 MHz
- 2. VBW ≥ 3 MHz
- 3. Detector = RMS
- 4. Trace Mode = trace average
- 5. Sweep time = auto
- 6. Number of points in sweep ≥ 2 x Span / RBW



3.6 BAND EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1 % of the emission bandwidth
- 4. VBW > 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Notes

According to FCC 22.917, 24.238, 27.53 specified that 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.

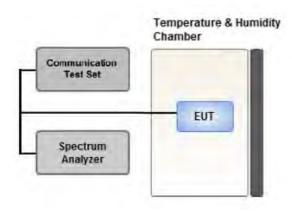
In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.



3.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature:

The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.

- 2. Primary Supply Voltage:
 - .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
 - .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter.

 Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.



3.8 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.

 (In the case of radiated spurious emissions, only the B.W result that confirmed the maximum radiated power was reported.)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
	QPSK,			
Effective Radiated Power	16QAM,	1	0	×
	64QAM,			
Radiated Spurious and Harmonic Emissions	QPSK	1	0	Х



3.9 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM,	1.4, 3, 5, 10, 15	Mid	Full RB	0
		1.4	Low	1	0
		1.4	High	1	5
		3	Low	1	0
	QPSK	3	High	1	14
		5	Low	1	0
Band Edge			High	1	24
Ballu Euge		10	Low	1	0
			High	1	49
		15	Low	1	0
			High	1	74
		1.4, 3, 5, 10,	Low,	Full RB	0
		15	High	Full ND	U
Spurious and Harmonic Emissions at		1.4, 3, 5, 10,	Low,		
Antenna Terminal	QPSK	15	Mid,	1	0
Antenna Iellilliai		13	High		



4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Date	Calibrati on Interval	Calibration Due
T&M SYSTEM	FBSR-02B(WHK1.2/15 G-10EF)/H.P.F	-	03/02/2021	Annual	03/02/2022
T&M SYSTEM	FBSR-02B(WHK3.3/18 G-10EF)/H.P.F	-	03/02/2021	Annual	03/02/2022
Hewlett Packard	11667B / Power Splitter(DC ~ 26.5 GHz)	11275	04/07/2021	Annual	04/07/2022
Hewlett Packard	E3632A/DC Power Supply	MY40004427	09/16/2020	Annual	09/16/2021
Schwarzbeck	UHAP/ Dipole Antenna	557	04/05/2021	Biennial	04/05/2023
Schwarzbeck	UHAP/ Dipole Antenna	558	04/05/2021	Biennial	04/05/2023
ESPEC	SU-642 / Chamber	93008124	03/15/2021	Annual	03/15/2022
Schwarzbeck	BBHA 9120D/ Horn Antenna(1 ~ 18 GHz)	147	08/29/2019	Biennial	08/29/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1 ~ 18 GHz)	9120D-1298	09/25/2019	Biennial	09/25/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15 ~ 40 GHz)	BBHA91703 42	10/13/2020	Biennial	10/13/2022
Schwarzbeck	BBHA 9170/ Horn Antenna(15 ~ 40 GHz)	BBHA91701 24	02/11/2020	Biennial	02/11/2022
Agilent	N9020A/Signal Analyzer(10 Hz ~ 26.5 GHz)	MY50200093	11/17/2020	Annual	11/17/2021
Hewlett Packard	8493C/ATTENUATOR(20 dB)	17280	06/01/2021	Annual	06/01/2022
REOHDE & SCHWARZ	FSV40/Spectrum Analyzer(10 Hz ~ 40 GHz)	100931	10/14/2020	Annual	10/14/2021
Agilent	8960 (E5515C)/ Base Station	MY48360800	08/26/2020	Annual	08/26/2021
Schwarzbeck	FMZB1513/ Loop Antenna(9 kHz ~ 30 MHz)	1513-333	03/19/2020	Biennial	03/19/2022
Schwarzbeck	VULB9160/ Bilog Antenna	3150	03/03/2021	Biennial	03/03/2023
Schwarzbeck	VULB9168/ Hybrid Antenna	760	02/22/2021	Biennial	02/22/2023
Anritsu Corp.	MT8821C/Wideband Radio Communication Tester	6262116770	07/12/2021	Annual	07/12/2022
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201026545	01/07/2021	Annual	01/07/2022
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100 kHz ~ 40 GHz)	177633	07/05/2021	Annual	07/05/2022
KEYSIGHT	N9030B / Signal Analyzer(5 Hz ~ 40.0 GHz)	MY55480167	06/02/2021	Annual	06/02/2022
HCT CO., LTD.,	FCC LTE Mobile Conducted RF Automation Test Software	-	-	-	-

Note:

- 1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- 2. Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).



5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05 (Confidence level about 95 %, <i>k</i> =2)



6. SUMMARY OF TEST RESULTS

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §22.917(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§2.1046	N/A	See Note1
Frequency stability / variation of ambient temperature	§2.1055, §22.355	< 2.5 ppm	PASS

Note:

1. See SAR Report

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§22.913(a)(5)	< 7 Watts max. ERP	PASS
Radiated Spurious and Harmonic	§2.1053,	< 43 + 10log10 (P[Watts]) for	PASS
Emissions	§22.917(a)	all out-of band emissions	FA33



7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch	./ Freq.	Measured	Substitute	Substitute Ant. Gain		Pol.	EF	RP
channel	Freq.(MHz)	Level (dBm)	Level (dBm) ((dBd)	C.L Po	1 01.	W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	Н	0.483	26.84

ERP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured	Substitute	Ant. Gain		5.1	EII	RP
channel	Freq.(MHz)	Level (dBm)	Level (dBm)	(dBi)	C.L	Pol.	w	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	Н	0.456	26.59

EIRP = Substitute LEVEL(dBm) + Ant. Gain - CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.



7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand



8. TEST DATA

8.1 EFFECTIVE RADIATED POWER

Freq	Mod/	Madulation	Measured	Substitute	Ant. Gain	6.1	Del	Limit	EF	RP
(MHz)	Bandwidth	Modulation	Level (dBm)	Level (dBm)	(dBd)	C.L	Pol	W	W	dBm
		QPSK	-33.40	30.28	-10.42	1.40	Н		0.070	18.46
824.7		16-QAM	-34.04	29.64	-10.42	1.40	Н		0.060	17.82
		64-QAM	-35.12	28.56	-10.42	1.40	Н		0.047	16.74
	LTE 20	QPSK	-33.26	30.88	-10.40	1.41	Н		0.081	19.07
836.5	LTE 26	16-QAM	-33.98	30.16	-10.40	1.41	Н	< 7.00	0.068	18.35
	(1.4 MHz)	64-QAM	-34.98	29.16	-10.40	1.41	Н		0.054	17.35
		QPSK	-33.74	30.64	-10.38	1.42	Н		0.077	18.84
848.3		16-QAM	-34.46	29.92	-10.38	1.42	Н		0.065	18.12
	-	64-QAM	-35.43	28.95	-10.38	1.42	Н		0.052	17.15

Freq	Mod/	Modulation	Measured	Substitute	Ant. Gain	C.L	Pol	Limit	EF	₹P
(MHz)	Bandwidth	Wiodulation	Level (dBm)	Level (dBm)	(dBd)	j.	POI	W	W	dBm
		QPSK	-33.27	30.42	-10.42	1.40	Н		0.073	18.60
825.5		16-QAM	-33.95	29.74	-10.42	1.40	Н		0.062	17.92
		64-QAM	-35.09	28.60	-10.42	1.40	Н		0.048	16.78
	LTE 26	QPSK	-33.18	30.96	-10.40	1.41	Н		0.082	19.15
836.5	(3 MHz)	16-QAM	-33.89	30.25	-10.40	1.41	Н	< 7.00	0.070	18.44
	(3 1/11 12)	64-QAM	-34.98	29.16	-10.40	1.41	Н		0.054	17.35
		QPSK	-33.64	30.69	-10.39	1.42	Н		0.077	18.89
847.5		16-QAM	-34.34	29.99	-10.39	1.42	Н		0.066	18.19
		64-QAM	-35.43	28.90	-10.39	1.42	Н		0.051	17.10



Freq	Mod/	Madulation	Measured	Substitute	Ant. Gain	6.1	Dal	Limit	EF	₹P
(MHz)	Bandwidth	Modulation	Level (dBm)	Level (dBm)	(dBd)	C.L	Pol	W	W	dBm
		QPSK	-33.01	30.74	-10.42	1.40	Н		0.078	18.93
826.5		16-QAM	-33.67	30.08	-10.42	1.40	Н		0.067	18.27
		64-QAM	-34.87	28.88	-10.42	1.40	Н		0.051	17.07
	LTE 26	QPSK	-33.13	31.01	-10.40	1.41	Н		0.083	19.20
836.5	(5 MHz)	16-QAM	-33.80	30.34	-10.40	1.41	Н	< 7.00	0.071	18.53
	(3 MHZ)	64-QAM	-34.94	29.20	-10.40	1.41	Н		0.055	17.39
		QPSK	-33.55	30.69	-10.39	1.42	Н		0.077	18.88
846.5		16-QAM	-34.22	30.02	-10.39	1.42	Н		0.066	18.21
	-	64-QAM	-35.30	28.94	-10.39	1.42	Н		0.052	17.13

Freq	Mod/	Modulation	Measured	Substitute	Ant. Gain	C.L	Pol	Limit	EF	₹P
(MHz)	Bandwidth	Wiodulation	Level (dBm)	Level (dBm)	(dBd)	Ċ.L	POI	W	W	dBm
		QPSK	-33.08	30.82	-10.41	1.40	Н		0.080	19.01
829.0		16-QAM	-33.72	30.18	-10.41	1.40	Н		0.069	18.37
		64-QAM	-34.85	29.05	-10.41	1.40	Н		0.053	17.24
	LTE 26	QPSK	-33.09	31.05	-10.40	1.41	Н		0.084	19.24
836.5	(10 MHz)	16-QAM	-33.69	30.45	-10.40	1.41	Н	< 7.00	0.073	18.64
	(10 MHZ)	64-QAM	-34.75	29.39	-10.40	1.41	Н		0.057	17.58
		QPSK	-33.38	30.71	-10.39	1.41	Н		0.078	18.91
844.0		16-QAM	-34.05	30.04	-10.39	1.41	Н		0.067	18.24
		64-QAM	-35.19	28.90	-10.39	1.41	Н		0.051	17.10



Freq	Mod/	Madulation	Measured	Substitute	Ant. Gain	61	Dal	Limit	EF	RP
(MHz)	Bandwidth	Modulation	Level (dBm)	Level (dBm)	(dBd)	C.L	Pol	W	W	dBm
		QPSK	-33.19	30.84	-10.41	1.40	Н		0.080	19.03
831.5		16-QAM	-33.88	30.15	-10.41	1.40	Н		0.068	18.34
		64-QAM	-35.04	28.99	-10.41	1.40	Н		0.052	17.18
	LTE Dae	QPSK	-33.24	30.90	-10.40	1.41	Н		0.081	19.09
836.5	LTE B26	16-QAM	-33.81	30.33	-10.40	1.41	Н	< 7.00	0.071	18.52
	(15 MHz)	64-QAM	-34.99	29.15	-10.40	1.41	Н		0.054	17.34
		QPSK	-33.33	30.79	-10.39	1.41	Н		0.079	18.99
841.5		16-QAM	-34.03	30.09	-10.39	1.41	Н		0.067	18.29
		64-QAM	-35.15	28.97	-10.39	1.41	Н		0.052	17.17



8.2 RADIATED SPURIOUS EMISSIONS

■ MODE: <u>LTE B26</u>

■ MODULATION SIGNAL: <u>10 MHz QPSK</u>

■ DISTANCE: <u>3 meters</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBd)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit
	1658.00	-53.50	9.58	-63.50	2.01	٧	-55.93	-13.00
26840 (829.0)	2487.00	-55.56	10.65	-59.60	2.49	٧	-51.44	-13.00
(020.0)	3316.00	-58.67	12.38	-59.65	2.91	Н	-50.18	-13.00
	1673.00	-52.12	9.65	-61.89	2.01	٧	-54.25	-13.00
26915 (836.5)	2509.50	-55.31	10.75	-59.03	2.50	Н	-50.78	-13.00
(000.0)	3346.00	-58.46	12.48	-59.45	2.92	٧	-49.89	-13.00
	1688.00	-52.82	9.73	-62.50	2.03	V	-54.80	-13.00
26990 (844.0)	2532.00	-54.52	10.80	-57.74	2.50	V	-49.44	-13.00
	3376.00	-57.50	12.60	-58.63	2.93	Н	-48.96	-13.00



8.3 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)	
			QPSK			1.0939	
	1.4 MHz		16-QAM	6		1.0925	
			64-QAM			1.0931	
			QPSK			2.7100	
	3 MHz		16-QAM	15		2.6948	
				64-QAM			2.7005
			QPSK			4.5064	
26	5 MHz	836.5	16-QAM	25	0	4.4962	
			64-QAM			4.5105	
			QPSK			8.9896	
	10 MHz		16-QAM	50		8.9812	
			64-QAM			8.9913	
			QPSK			13.454	
	15 MHz		16-QAM	75		13.462	
			64-QAM			13.452	

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 33 \sim 47.



8.4 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
		824.7	3.8550	27.976	-65.342	-37.366	
	1.4	836.5	3.9043	27.976	-65.247	-37.271	
		848.3	3.9048	27.976	-65.334	-37.358	
		825.5	3.8495	27.976	-65.537	-37.561	
	3	836.5	3.8520	27.976	-65.217	-37.241	
		847.5	3.8475	27.976	-65.339	-37.363	
		826.5	3.8729	27.976	-65.504	-37.528	
26	5	836.5	3.8146	27.976	-65.409	-37.433	-13.00
		846.5	3.8595	27.976	-65.497	-37.521	
		829.0	3.8660	27.976	-65.369	-37.393	
	10	836.5	3.8545	27.976	-65.417	-37.441	
		844.0	3.8480	27.976	-65.348	-37.372	
		831.5	3.8485	27.976	-65.321	-37.345	
	15	836.5	3.8380	27.976	-65.033	-37.057	
		841.5	3.8435	27.976	-65.452	-37.476	

Note:

- 1. Plots of the EUT's Conducted Spurious Emissions are shown Page 78 \sim 92.
- 2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
- 3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
- 4. Factor (dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

8.5 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 48 \sim 77.



8.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

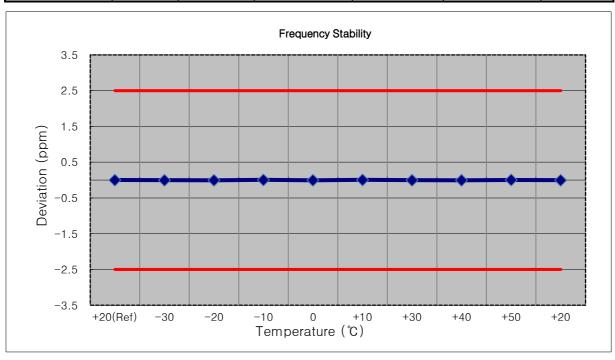
■ MODE: <u>LTE 26</u>

■ OPERATING FREQUENCY: 836,500,000 Hz

■ CHANNEL: <u>26915 (1.4 MHz)</u>

■ REFERENCE VOLTAGE: 3.860 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 500 002	0.0	0.000 000	0.000
100%		-30	836 499 999	-2.6	0.000 000	-0.003
100%		-20	836 499 997	-4.8	-0.000 001	-0.006
100%		-10	836 500 006	4.3	0.000 001	0.005
100%	3.860	0	836 499 997	-4.9	-0.000 001	-0.006
100%		+10	836 500 005	3.4	0.000 000	0.004
100%		+30	836 499 998	-4.2	-0.000 001	-0.005
100%		+40	836 499 997	-4.9	-0.000 001	-0.006
100%		+50	836 500 004	2.0	0.000 000	0.002
Batt. Endpoint	3.550	+20	836 499 998	-4.0	0.000 000	-0.005





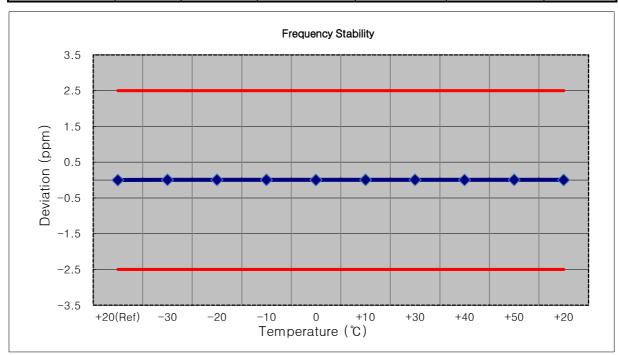
■ MODE: <u>LTE 26</u>

■ OPERATING FREQUENCY: 836,500,000 Hz

■ CHANNEL: <u>26915 (3 MHz)</u>

■ REFERENCE VOLTAGE: 3.860 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 500 007	0.0	0.000 000	0.000
100%		-30	836 500 014	6.4	0.000 001	0.008
100%		-20	836 500 014	6.3	0.000 001	0.008
100%		-10	836 500 012	5.0	0.000 001	0.006
100%	3.860	0	836 500 011	4.0	0.000 000	0.005
100%		+10	836 500 012	5.1	0.000 001	0.006
100%		+30	836 500 013	5.9	0.000 001	0.007
100%		+40	836 500 011	3.8	0.000 000	0.005
100%		+50	836 500 013	5.8	0.000 001	0.007
Batt. Endpoint	3.550	+20	836 500 011	3.5	0.000 000	0.004





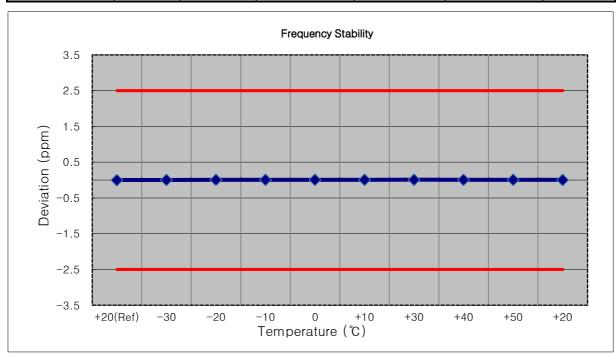
■ MODE: <u>LTE 26</u>

■ OPERATING FREQUENCY: 836,500,000 Hz

■ CHANNEL: <u>26915 (5 MHz)</u>

■ REFERENCE VOLTAGE: 3.860 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	
100%	3.860	+20(Ref)	836 500 006	0.0	0.000 000	0.000
100%		-30	836 500 008	2.5	0.000 000	0.003
100%		-20	836 500 012	5.9	0.000 001	0.007
100%		-10	836 500 012	6.0	0.000 001	0.007
100%		0	836 500 013	6.7	0.000 001	0.008
100%		+10	836 500 012	5.7	0.000 001	0.007
100%		+30	836 500 013	7.1	0.000 001	0.008
100%		+40	836 500 011	5.4	0.000 001	0.006
100%		+50	836 500 012	5.7	0.000 001	0.007
Batt. Endpoint	3.550	+20	836 500 011	4.7	0.000 001	0.006





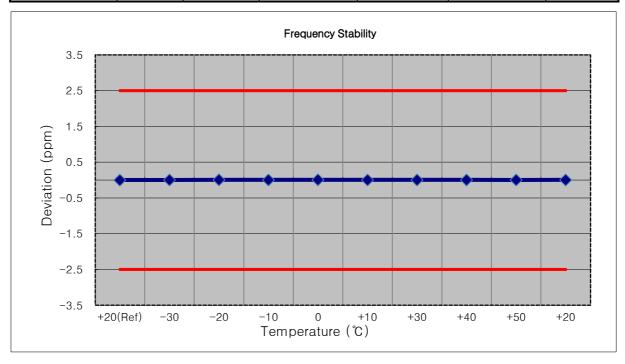
■ MODE: <u>LTE 26</u>

■ OPERATING FREQUENCY: 836,500,000 Hz

■ CHANNEL: <u>26915 (10 MHz)</u>

■ REFERENCE VOLTAGE: 3.860 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	
100%	3.860	+20(Ref)	836 500 005	0.0	0.000 000	0.000
100%		-30	836 500 007	1.8	0.000 000	0.002
100%		-20	836 500 010	5.0	0.000 001	0.006
100%		-10	836 500 010	4.5	0.000 001	0.005
100%		0	836 500 010	5.1	0.000 001	0.006
100%		+10	836 500 009	4.3	0.000 001	0.005
100%		+30	836 500 010	4.9	0.000 001	0.006
100%		+40	836 500 010	4.5	0.000 001	0.005
100%		+50	836 500 007	2.0	0.000 000	0.002
Batt. Endpoint	3.550	+20	836 500 009	3.5	0.000 000	0.004





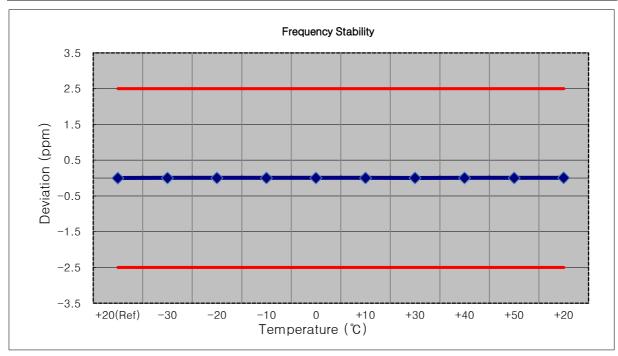
■ MODE: <u>LTE B26</u>

■ OPERATING FREQUENCY: 836,500,000 Hz

■ CHANNEL: <u>26915 (15 MHz)</u>

■ REFERENCE VOLTAGE: 3.860 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	ppm
100%	3.860	+20(Ref)	836 500 004	0.0	0.000 000	0.000
100%		-30	836 500 010	4.5	0.000 001	0.005
100%		-20	836 500 010	4.5	0.000 001	0.005
100%		-10	836 500 010	4.4	0.000 001	0.005
100%		0	836 500 009	3.5	0.000 000	0.004
100%		+10	836 500 009	4.1	0.000 000	0.005
100%		+30	836 500 008	3.0	0.000 000	0.004
100%		+40	836 500 009	3.5	0.000 000	0.004
100%		+50	836 500 009	3.4	0.000 000	0.004
Batt. Endpoint	3.550	+20	836 500 010	5.1	0.000 001	0.006





9. TEST PLOTS



BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 QPSK_RB6_0)





BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 16QAM RB6 0)





Spectrum Analyzer 1 Occupied BW ø Frequency Atten: 20 dB Preamp: Off Center Freq: 836.500000 MHz Avg|Hold 500/500 Radio Std: None Trig: Free Run Gate: Off #IF Gain: Low Input Z: 50 Ω KEYSIGHT Input RF Center Frequency Corrections: Off Freq Ref. Int (S) Settings Align: Auto 836.500000 MHz LNJ PASS Span 1 Graph Ref Lvl Offset 26.60 dB Ref Value 40.00 dBm 2.8000 MHz Scale/Div 10.0 dB CF Step 280.000 kHz 200 Auto Man Freq Offset 0 Hz Span 2.8 MHz Sweep 3.67 ms (1001 pts) Center 836.500 MHz #Video BW 110.00 kHz Res BW 27.000 kHz 2 Metrics Occupied Bandwidth 1.0931 MHz Total Power 29.8 dBm Transmit Freq Error 997 Hz % of OBW Power 99.00 % x dB Bandwidth 1.235 MHz x dB -26.00 dB

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BAND26. Occupied Bandwidth Plot (1.4 M BW Ch.26915 64QAM RB6 0)



BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 QPSK_RB15_0)





x dB Bandwidth

170

3.004 MHz

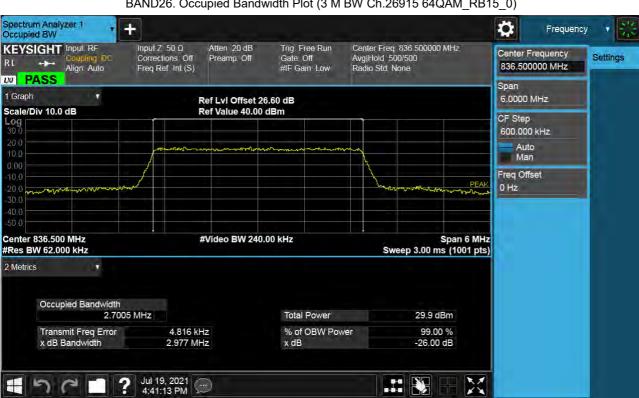
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Spectrum Analyzer 1 Occupied BW ø Frequency Atten: 20 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 836.500000 MHz Avg|Hold: 500/500 Radio Std: None KEYSIGHT Input RF Input Z: 50 Ω Center Frequency Settings Corrections: Off Freq Ref: Int (S) RL Align: Auto 836.500000 MHz LN PASS Span 1 Graph Ref LvI Offset 26.60 dB Ref Value 40.00 dBm 6.0000 MHz Scale/Div 10.0 dB CF Step 600.000 kHz Auto Man Freq Offset 0 Hz Center 836.500 MHz #Video BW 240.00 kHz Span 6 MHz Sweep 3.00 ms (1001 pts) #Res BW 62.000 kHz 2 Metrics Occupied Bandwidth 2.6948 MHz Total Power 30.9 dBm 1.244 kHz 99.00 % -26.00 dB Transmit Freq Error % of OBW Power

x dB

BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 16QAM RB15 0)





BAND26. Occupied Bandwidth Plot (3 M BW Ch.26915 64QAM_RB15_0)



BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 QPSK_RB25_0)





BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 16QAM_RB25_0)





Spectrum Analyzer 1 Occupied BW ø Frequency Atten: 20 dB Preamp: Off Center Freq: 836.500000 MHz Avg|Hold: 500/500 Radio Std: None Tng: Free Run Gate: Off #IF Gain: Low Input Z: 50 Ω KEYSIGHT Input RF Center Frequency Corrections: Off Freq Ref. Int (S) Settings Align: Auto 836.500000 MHz LNJ PASS Span 1 Graph Ref Lvl Offset 26.60 dB Ref Value 40.00 dBm 10.000 MHz Scale/Div 10.0 dB CF Step 1.000000 MHz 200 Auto Man Freq Offset 0 Hz Span 10 MHz Sweep 5.00 ms (1001 pts) Center 836.500 MHz #Video BW 390.00 kHz #Res BW 100.00 kHz 2 Metrics Occupied Bandwidth 4.5105 MHz Total Power 30.1 dBm Transmit Freq Error -4.252 kHz % of OBW Power 99.00 % x dB Bandwidth 4.973 MHz x dB -26.00 dB Jul 19, 2021 4:47:04 PM # 💸

BAND26. Occupied Bandwidth Plot (5 M BW Ch.26915 64QAM_RB25_0)



BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 QPSK RB50 0)



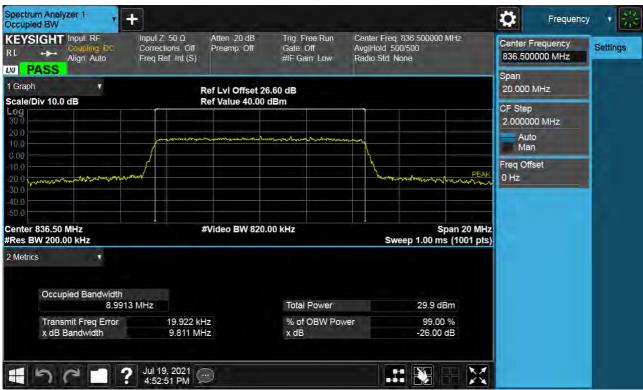


BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 16QAM RB50 0)





BAND26. Occupied Bandwidth Plot (10 M BW Ch.26915 64QAM_RB50_0)







BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 QPSK RB 75_0)





BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 16QAM RB 75 0)





BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26915 64QAM RB 75_0)



BAND26. Lower Band Edge Plot (1.4 M BW Ch.26797 QPSK RB1 Offset 0)





BAND26. Lower Band Edge Plot (1.4 M BW Ch.26797 QPSK_RB6_Offset 0)



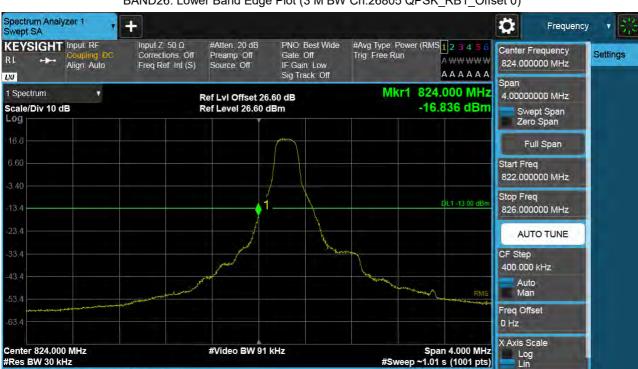


BAND26. Lower Extended Band Edge Plot (1.4 M BW Ch.26797 QPSK RB6 0)





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BAND26. Lower Band Edge Plot (3 M BW Ch.26805 QPSK_RB1_Offset 0)



BAND26. Lower Band Edge Plot (3 M BW Ch.26805 QPSK_RB15_Offset 0)





BAND26. Lower Extended Band Edge Plot (3 M BW Ch.26805 QPSK RB15 0)





BAND26. Lower Band Edge Plot (5 M BW Ch.26815 QPSK RB1 Offset 0)





BAND26. Lower Band Edge Plot (5 M BW Ch.26815 QPSK_RB25_Offset 0)





BAND26. Lower Extended Band Edge Plot (5 M BW Ch.26815 QPSK RB25 0)





BAND26. Lower Band Edge Plot (10 M BW Ch.26840 QPSK_RB1_Offset 0)





BAND26. Lower Band Edge Plot (10 M BW Ch.26840 QPSK RB50 Offset 0)





BAND26. Lower Extended Band Edge Plot (10 M BW Ch.26840 QPSK RB50 0)





BAND 26. Lower Band Edge Plot (15 M BW Ch.26865 QPSK RB1 Offset 0)







BAND 26. Lower Band Edge Plot (15 M BW Ch.26865 QPSK_RB75_Offset 0)









BAND26. Upper Band Edge Plot (1.4 M BW Ch.27033 QPSK_RB1_Offset 5)





BAND26. Upper Band Edge Plot (1.4 M BW Ch.27033 QPSK RB6 Offset 0)





BAND26. Upper Extended Band Edge Plot (1.4 M BW Ch.27033 QPSK RB6 0)





BAND26. Upper Band Edge Plot (3 M BW Ch.27025 QPSK_RB1_Offset 14)





BAND26. Upper Band Edge Plot (3 M BW Ch.27025 QPSK_RB15_Offset 0)





BAND26. Upper Extended Band Edge Plot (3 M BW Ch.27025 QPSK RB15 0)





BAND26. Upper Band Edge Plot (5 M BW Ch.27015 QPSK_RB1_Offset 24)





BAND26. Upper Band Edge Plot (5 M BW Ch.27015 QPSK_RB25_Offset 0)





BAND26. Upper Extended Band Edge Plot (5 M BW Ch.27015 QPSK RB25 0)





BAND26. Upper Band Edge Plot (10 M BW Ch.26990 QPSK RB1 Offset 49)





BAND26. Upper Band Edge Plot (10 M BW Ch.26990 QPSK RB50 Offset 0)





BAND26. Upper Extended Band Edge Plot (10 M BW Ch.26990 QPSK RB50 0)







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BAND 26. Upper Band Edge Plot (15 M BW Ch.26965 QPSK_RB1_Offset 74)



BAND 26. Upper Band Edge Plot (15 M BW Ch.26965 QPSK RB75 Offset 0)





BAND 26. Upper Extended Band Edge Plot (15 M BW Ch.26965 QPSK RB75 0)





BAND26. Conducted Spurious Plot (26797ch 1.4 MHz QPSK RB 1 0)





BAND26. Conducted Spurious Plot (26915ch_1.4 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (27033ch_1.4 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (26805ch 3 MHz QPSK RB 1 0)





BAND26. Conducted Spurious Plot (26915ch 3 MHz QPSK RB 1 0)





BAND26. Conducted Spurious Plot (27025ch_3 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (26815ch_5 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (26915ch 5 MHz QPSK RB 1 0)





BAND26. Conducted Spurious Plot (27015ch_5 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (26840ch_10 MHz_QPSK_RB 1_0)





BAND26. Conducted Spurious Plot (26915ch 10 MHz QPSK RB 1 0)





BAND26. Conducted Spurious Plot (26990ch 10 MHz QPSK RB 1 0)







BAND 26. Conducted Spurious (26865ch_15 MHz_QPSK_RB 1_0)





BAND 26. Conducted Spurious (26915ch_15 MHz_QPSK_RB 1_0)





BAND 26. Conducted Spurious (26965ch_15 MHz_QPSK_RB 1_0)



Report No.: HCT-RF-2108-FC017 FCC ID: A3LSMM526B

10. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2108-FC017-P