

TEST REPORT

FCC LTE Test for IML-C6400W

Certification

APPLICANT Infomark Co.,Ltd.

REPORT NO. HCT-RF-2301-FC011

DATE OF ISSUE January 6, 2023

Tested by Jae Mun Do

Technical Manager Jong Seok Lee

EMPT.

23

HCT CO., LTD.
Bongsai Huh / CEO



HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Tel. +82 31 634 6300 Fax. +82 31 645 6401

TEST REPORT FCC LTE Test for IML-C6400W

REPORT NO. HCT-RF-2301-FC011

DATE OF ISSUE January 06,2023

Additional Model

standard.

-

Applicant	Infomark Co.,Ltd. 8F, 321, Hwangsaeul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13590, KOREA
Eut Type	LTE Mobile WiFi
Model Name	IML-C6400W
FCC Classification:	Licensed Non-Broadcast Station Transmitter (TNB)
FCC Rule Part(s):	§ 90, § 22, § 2
	The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
	This test results were applied only to the test methods required by the

F-TP22-6\(Rev. 04) Page 2 of 72





REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	January 06,2023	Initial Release

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)

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

F-TP22-6\(Rev. 04) Page 3 of 72





CONTENTS

1. GENERAL INFORMATION	5
1.1. MAXIMUM OUTPUT POWER	6
2. INTRODUCTION	7
2.1. DESCRIPTION OF EUT	7
2.2. MEASURING INSTRUMENT CALIBRATION	7
2.3. TEST FACILITY	7
3. DESCRIPTION OF TESTS	8
3.1. TEST PROCEDURE	8
3.2. CONDUCTED OUTPUT POWER	9
3.3. RADIATED POWER	10
3.4. RADIATED SPURIOUS EMISSIONS	11
3.5. OCCUPIED BANDWIDTH.	12
3.6. SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	13
3.7. CHANNEL EDGE	14
3.8. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	15
3.9. WORST CASE(RADIATED TEST)	16
3.10. WORST CASE(CONDUCTED TEST)	17
4. LIST OF TEST EQUIPMENT	18
5. MEASUREMENT UNCERTAINTY	19
6. SUMMARY OF TEST RESULTS 7. SAMPLE CALCULATION	20 21
8. TEST DATA	23
8.1. CONDUCTED OUTPUT POWER	23
8.2. EFFECTIVE RADIATED POWER	25
8.3. RADIATED SPURIOUS EMISSIONS	26
8.4. OCCUPIED BANDWIDTH	27
8.5. CONDUCTED SPURIOUS EMISSIONS	28
8.6. CHANNEL EDGE	28
8.7. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	29
8.8. STADDLE CHANNEL	32
8.8.1. CONDUCTED OUTPUT POWER	32
8.8.2. EFFECTIVE RADIATED POWER	33
8.8.3. RADIATED SPURIOUS EMISSIONS	34
8.8.4. CONDUCTED SPURIOUS EMISSIONS	35
8.8.5. CHANNEL EDGE(Part90)	35
8.8.6. BAND EDGE(Part22)	35
9. TEST PLOTS	36
10. TEST PLOTS (STRADDLE CHANNEL)	59
11 ANNEX A_ TEST SETUP PHOTO	72

F-TP22-6\(Rev. 04) Page 4 of 72



MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	Infomark Co.,Ltd
Address:	3F, Humaxvillage, 216 Hwangsaeul-ro, Bundang-gu, Seongnam-si Gyeonggi-do, 13595, Korea
Application Type:	Certification
FCC Classification:	Licensed Non-Broadcast Station Transmitter (TNB)
FCC Rule Part(s):	§ 90, § 22, § 2
EUT Type:	LTE Mobile WiFi
Model(s):	IML-C6400W
Tx Frequency:	816.5 MHz – 821.5 MHz (LTE – Band 26 (5 MHz)) 819.0 MHz (LTE – Band 26 (10 MHz)) 821.5 MHz (LTE – Band 26 (15 MHz))
Date(s) of Tests:	December 03, 2022 ~ January 3, 2023
Serial number:	Radiated: 980084 Conducted: 980090

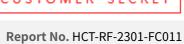
F-TP22-6\(Rev. 04) Page 5 of 72



1.1. MAXIMUM OUTPUT POWER

Mode	T. F	F		Conducted Output Power		
Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Max. Power (W)	Max. Power (dBm)	
LTE Day 426 (F)	016 5 024 0	4M51G7D	QPSK	0.200	23.02	
LTE – Band26 (5)	816.5 – 824.0	4M50W7D	16QAM	0.172	22.36	
	9M95G7D	QPSK	0.194	22.88		
LTE – Band26 (10)	819.0 – 824.0	9M92W7D	16QAM	0.170	22.31	
LTE D 100 (15)	5) 821.5	13M4G7D	QPSK	0.195	22.89	
LTE – Band26 (15)		13M4W7D	16QAM	0.159	22.01	

F-TP22-6\(Rev. 04) Page 6 of 72





2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a LTE Mobile WiFi with LTE. It also supports IEEE 802.11 b/g/n (20/40 MHz), LoRa.

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.

F-TP22-6\(Rev. 04) Page 7 of 72





3. DESCRIPTION OF TESTS

3.1. TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
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
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

F-TP22-6\(Rev. 04) Page 8 of 72



3.2. CONDUCTED OUTPUT POWER

Test Overview

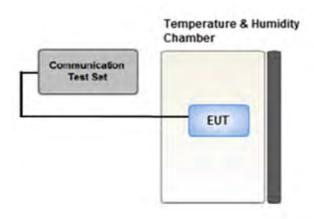
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

- 1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
- 2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



F-TP22-6\(Rev. 04) Page 9 of 72





3.3. 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

- 1. 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 \geq 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;

$$P_{d (dBm)} = Pg_{(dBm)} - cable loss_{(dB)} + antenna gain_{(dB)}$$

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.

F-TP22-6\(Rev. 04)





3.4. 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 1 MHz for emissions above 1 GHz
- 2. VBW \geq 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

- 1. 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 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 spurious emissions is calculated by the following formula;

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

Where: P_{g} is the generator output power into the substitution antenna.

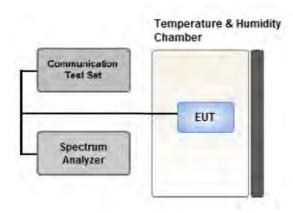
If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

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

F-TP22-6\(Rev. 04)



3.5. 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

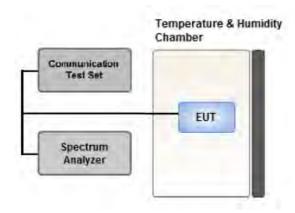
Test Settings

- 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 \geq 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

F-TP22-6\(Rev. 04) Page 12 of 72



3.6. 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.

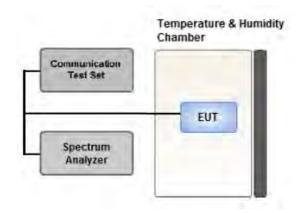
Test Settings

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

F-TP22-6\(Rev. 04) Page 13 of 72







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:
 - .- EA licensee's frequency block by up to and including 37.5 kHz: 300 Hz
 - .- EA licensee's frequency block greater than 37.5 kHz: 100 kHz
- $4. VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Notes

For 90.691(a), RBW=300 Hz for offset less than 37.5 kHz from channel edge and RBW=100 kHz for offsets greater than 37.5 kHz is allowed.

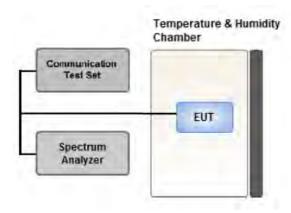
Where Margin < 1 dB the emission level is either corrected by 10 log(1 MHz/ RB) or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge

F-TP22-6\(Rev. 04)





3.8. 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

- 1. 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.

F-TP22-6\(Rev. 04) Page 15 of 72



3.9. 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.

Mode: Stand alone, Stand alone + External accessories (AC adapter, etc)

Worst case: Stand alone

- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 5 MHz)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All modes of operation were tested and the worst case results are reported.
- Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	RB size	RB offset	Axis
	QPSK, 16QAM	5	1	24	Z
Effective Radiated Power		10	1	49	
		15	1	38	
Radiated Spurious and Harmonic Emissions	QPSK	5	1	24	Х

F-TP22-6\(Rev. 04)

비



3.10. WORST CASE(CONDUCTED TEST)

-Worst case : Of all modulation, We have tested modulation of the high Conducted Output Power.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
O constad Books talk	QPSK, 16QAM	5	High	Full RB	0
Occupied Bandwidth	QPSK, 16QAM	10, 15	Mid		0
		F	High 1 Mid 1	1	0
		5	High	1	24
		10	Mid	1	0
				1	49
Channel Edge	QPSK	15	Mid	1	0
				1	74
		5	Low, High	Full RB	0
		10, 15	Mid	Mid Full RB ow 1 ligh 1 Mid 1 ow, Full RB Mid Full RB Mid 1 Mid 1 Mid Full RB ow, 1 ligh 1	0
Pand Edge		5	Mid	1	24
Band Edge (Staddle Channel)	QPSK	10	Mid	1	49
(Staudie Chainlet)		5, 10	Mid Full RB Mid 1 Mid 1 Mid Full RB	0	
Spurious and Harmonic Emissions at	QPSK	5	Low, High	1	0
Antenna Terminal		10, 15	Mid	1	0

Page 17 of 72 F-TP22-6\(Rev. 04)



4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
H.P.F	FBSR-02B(WHK1.2/15 G- 10EF)	T&M SYSTEM	-	02/18/2023	Annual
H.P.F	FBSR-02B(WHK3.3/18 G- 10EF)	T&M SYSTEM	-	02/18/2023	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	11275	03/11/2023	Annual
DC Power Supply	E3632A	Agilent	MY40010147	06/21/2023	Annual
Dipole Antenna	UHAP	Schwarzbeck	557	04/05/2023	Biennial
Dipole Antenna	UHAP	Schwarzbeck	558	04/05/2023	Biennial
Chamber	SU-642	ESPEC	93008124	03/04/2023	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	147	08/30/2023	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1298	09/15/2023	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	05/02/2023	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	05/18/2023	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	100931	08/29/2023	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/18/2023	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/17/2024	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/03/2023	Biennial
Hybrid Antenna	VULB9168	Schwarzbeck	760	02/22/2023	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262116770	07/05/2023	Annual
Wideband Radio Communication Tester	MT8820C	Anritsu Corp.	6201026545	01/05/2023	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/05/2023	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/30/2023	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

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).

F-TP22-6\(Rev. 04) Page 18 of 72



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)	2.00 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.40 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.51 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.92 (Confidence level about 95 %, <i>k</i> =2)
Radiated Disturbance (Above 40 GHz)	5.48 (Confidence level about 95 %, <i>k</i> =2)

F-TP22-6\(Rev. 04) Page 19 of 72



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	§ 2.1049 N/A	
Channel Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 90.691	< 50 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge	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 § 90.635	< 100 Watts	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 90.213 § 22.355	< 2.5 ppm	PASS

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 (Only 15 MHz B.W)	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 90.691 § 22.917(a)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

F-TP22-6\(Rev. 04) Page 20 of 72



Report No. HCT-RF-2301-FC011

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch.	/ Freq.	Measured	Substitute	Ant. Gain	CI	Pol.	ERP	
channel	Freq.(MHz)	Level (dBm)	Level (dBm)	(dBd)	C.L	POI.	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	CI	Del	EIRP	
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.

F-TP22-6\(Rev. 04) Page 21 of 72





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

F-TP22-6\(Rev. 04) Page 22 of 72

비





8. TEST DATA

8.1. CONDUCTED OUTPUT POWER

					Max. output	power(dBm)	Limit
Band Width	Modulation	RB Size	RB Offset	816.	5 MHz	821.5	MHz	Limit (W)
Wideii		Size	Onset	dBm	W	dBm	W	(**)
		1	0	22.41	0.174	22.54	0.179	100
		1	12	22.60	0.182	22.62	0.183	100
		1	24	23.02	0.200	22.95	0.197	100
	QPSK	12	0	21.74	0.149	21.78	0.151	100
		12	6	22.01	0.159	22.02	0.159	100
		12	11	22.13	0.163	22.14	0.164	100
-		25	0	22.10	0.162	22.13	0.163	100
5		1	0	21.87	0.154	21.96	0.157	100
		1	12	21.89	0.155	21.93	0.156	100
		1	24	22.35	0.172	22.36	0.172	100
	16QAM	12	0	20.90	0.123	20.92	0.124	100
		12	6	21.03	0.127	21.05	0.127	100
		12	11	21.22	0.132	21.28	0.134	100
		25	0	21.28	0.134	21.25	0.133	100

				Max. output	power(dBm)	
Band Width	Modulation	RB Size	RB Offset	819	MHz	Limit (W)
Widen		Size	Onset	dBm	W	(**)
		1	0	22.27	0.169	100
		1	24	22.88	0.194	100
		1	49	22.40	0.174	100
	QPSK	25	0	21.97	0.157	100
		25	12	22.03	0.160	100
		25	24	22.14	0.164	100
10		50	0	22.15	0.164	100
10		1	0	21.57	0.144	100
		1	24	22.31	0.170	100
		1	49	21.62	0.145	100
	16QAM	25	0	21.13	0.130	100
		25	12	21.18	0.131	100
		25	24	21.16	0.131	100
		50	0	21.24	0.133	100

F-TP22-6\(Rev. 04) Page 23 of 72





				Max. output	power(dBm)	
Band Width	Modulation	RB Size	RB Offset	821.5	MHz	Limit (W)
Width		3120	Onset	dBm	W	(**)
		1	0	22.08	0.161	100
		1	36	22.89	0.195	100
		1	74	22.20	0.166	100
	QPSK	36	0	21.52	0.142	100
		36	18	21.98	0.158	100
		36	39	21.89	0.155	100
15		75	0	21.88	0.154	100
13		1	0	21.36	0.137	100
		1	36	22.01	0.159	100
		1	74	21.70	0.148	100
	16QAM	36	0	20.58	0.114	100
		36	18	21.05	0.127	100
		36	39	21.07	0.128	100
		75	0	20.88	0.122	100

F-TP22-6\(Rev. 04) Page 24 of 72





8.2. EFFECTIVE RADIATED POWER

Freq	Bandwidth Modulation Measured Substitute Ant. Gain Level (dBm) Level (dBm) (dBd)	C.L	Pol	Limit	EF	RP				
(MHz)			Level (dBm)	Level (dBm)	(dBd)			W	W	dBm
016.5		QPSK	-32.78	28.01	-10.28	1.41	Н		0.043	16.32
816.5	LTE B26/	16QAM	-33.60	27.19	-10.28	1.41	Н	. 100	0.036	15.50
021.5	5 MHz	QPSK	-31.58	29.38	-10.26	1.41	Н	< 100	0.059	17.71
821.5		16QAM	-32.31	28.65	-10.26	1.41	Н		0.050	16.98

Freq	Bandwidth	Modulation	ion		Measured Substitute evel (dBm)	Ant. Gain	C.L	Pol	Limit	EF	RP
(MHz)			Level (abm)	Level (abm)	(ава)			W	W	dBm	
010.0	LTE B26/	QPSK	-32.64	28.17	-10.27	1.41	Н	. 100	0.045	16.49	
819.0	10 MHz	16QAM	-33.34	27.47	-10.27	1.41	Н	< 100	0.038	15.79	

Freq	Bandwidth	Modulation		Modulation		sured Substitute	Ant. Gain (dBd)	C.L	Pol	Limit	EF	RP
(MHz)			Level (aBm)	Level (aBm)	(aBa)			W	W	dBm		
021.5	LTE B26/	QPSK	-33.29	27.67	-10.26	1.41	Н	. 7.00	0.040	16.00		
821.5	15 MHz	16QAM	-34.09	26.87	-10.26	1.41	Н	< 7.00	0.033	15.20		

Note

1. Limit: None (for reporting purposes only)

F-TP22-6\(Rev. 04) Page 25 of 72





8.3. RADIATED SPURIOUS EMISSIONS

■ MODE: <u>LTE B26</u>

■ MODULATION SIGNAL: 5 MHz QPSK

■ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit
	1 633.00	-42.88	9.50	-53.23	1.96	V	-45.69	-13.00
26715 (816.5)	2 449.50	-47.86	10.30	-52.19	2.56	Н	-44.45	-13.00
(010.5)	3 266.00	-46.46	10.89	-46.41	2.92	V	-38.44	-13.00
	1 643.00	-45.68	9.60	-56.32	1.99	V	-48.71	-13.00
26765	2 464.50	-45.35	10.42	-50.31	2.55	V	-42.44	-13.00
(821.5)	3 286.00	-43.18	12.01	-44.48	2.92	V	-35.40	-13.00
	4 107.50	-54.50	12.58	-52.31	3.28	Н	-43.01	-13.00

F-TP22-6\(Rev. 04) Page 26 of 72



8.4. OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
	E MII-	021 5	QPSK	25		4.5102
	5 MHz	821.5	16QAM	25		4.4954
D 4 2C	10 МП-	010.0	QPSK	F0	0	8.9451
Band 26	10 MHz	819.0	16QAM	- 50	0	8.9225
	15 MH-	021.5	QPSK	75		13.387
	15 MHz	821.5	16QAM	75		13.405

Note:

F-TP22-6\(Rev. 04) Page 27 of 72

^{1.} Plots of the EUT's Occupied Bandwidth are shown Page 37 \sim 42.





8.5. CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
	F	816.5	3.7084	27.976	-67.025	-39.049	
26	5	821.5	3.7274	27.976	-67.203	-39.227	12.00
26	10	819.0	3.6895	27.976	-66.927	-38.951	-13.00
	15	821.5	3.6895	27.976	-67.184	-39.208	

Note:

- 1. Plots of the EUT's Conducted Spurious Emissions are shown Page $55 \sim 58$.
- 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 + Ext. 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

8.6. CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 43 ~ 54.

F-TP22-6\(Rev. 04) Page 28 of 72





8.7. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

■ MODE: <u>LTE 26</u>

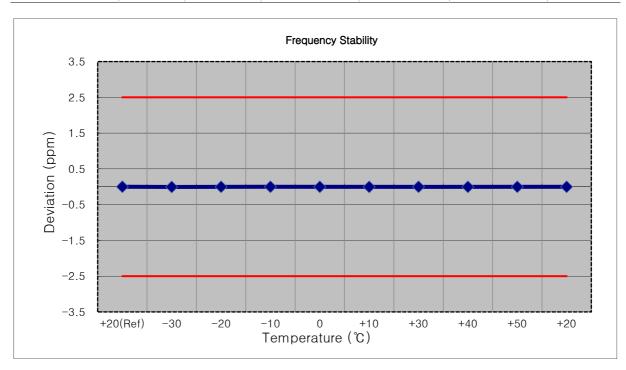
■ OPERATING FREQUENCY: 816,500,000 Hz

■ CHANNEL: <u>26715(5 MHz)</u>

■ REFERENCE VOLTAGE: 3.800 VDC

■ DEVIATION LIMIT: \pm 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100 %		+20(Ref)	816 500 001	0.0	0.000 000	0.000
100 %		-30	816 499 997	-4.5	-0.000 001	-0.006
100 %		-20	816 500 000	-1.5	0.000 000	-0.002
100 %		-10	816 500 000	-1.3	0.000 000	-0.002
100 %	3.800	0	816 500 000	-1.6	0.000 000	-0.002
100 %		+10	816 499 998	-3.0	0.000 000	-0.004
100 %		+30	816 500 000	-1.3	0.000 000	-0.002
100 %		+40	816 499 999	-2.7	0.000 000	-0.003
100 %		+50	816 500 000	-1.4	0.000 000	-0.002
Batt. Endpoint	3.000	+20	816 500 000	-1.4	0.000 000	-0.002



F-TP22-6\(Rev. 04) Page 29 of 72





■ MODE: LTE 26

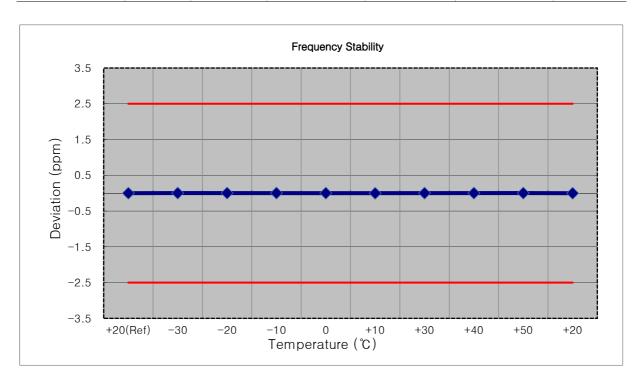
■ OPERATING FREQUENCY: 819,000,000 Hz

■ CHANNEL: 26740(10 MHz)

■ REFERENCE VOLTAGE: 3.800 VDC

■ DEVIATION LIMIT: \pm 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100 %		+20(Ref)	819 000 003	0.0	0.000 000	0.000
100 %		-30	819 000 005	2.4	0.000 000	0.003
100 %		-20	819 000 006	2.6	0.000 000	0.003
100 %		-10	819 000 005	2.4	0.000 000	0.003
100 %	3.800	0	819 000 004	1.2	0.000 000	0.001
100 %		+10	819 000 001	-2.0	0.000 000	-0.002
100 %		+30	819 000 004	1.1	0.000 000	0.001
100 %		+40	819 000 005	1.8	0.000 000	0.002
100 %		+50	819 000 005	2.0	0.000 000	0.002
Batt. Endpoint	3.000	+20	819 000 002	-1.3	0.000 000	-0.002



F-TP22-6\(Rev. 04) Page 30 of 72





■ MODE: LTE 26

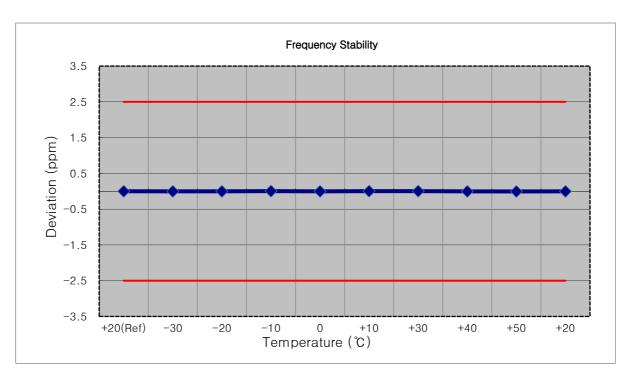
OPERATING FREQUENCY: 821,500,000 Hz

■ CHANNEL: 26765(15 MHz)

■ REFERENCE VOLTAGE: 3.800 VDC

■ DEVIATION LIMIT: \pm 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100 %		+20(Ref)	821 499 996	0.0	0.000 000	0.000
100 %		-30	821 499 994	-2.1	0.000 000	-0.003
100 %		-20	821 499 994	-1.8	0.000 000	-0.002
100 %		-10	821 499 999	3.3	0.000 000	0.004
100 %	3.800	0	821 499 994	-2.1	0.000 000	-0.003
100 %		+10	821 499 999	2.8	0.000 000	0.003
100 %		+30	821 499 999	2.8	0.000 000	0.003
100 %		+40	821 499 993	-3.0	0.000 000	-0.004
100 %		+50	821 499 992	-4.2	-0.000 001	-0.005
Batt. Endpoint	3.000	+20	821 499 994	-2.1	0.000 000	-0.003



F-TP22-6\(Rev. 04) Page 31 of 72



비



8.8. STADDLE CHANNEL

8.8.1. CONDUCTED OUTPUT POWER

				Max. output	power(dBm)	
Band Width	Modulation	RB Size	RB Offset	824	MHz	Limit (W)
wiatii		Size	Offset	dBm	W	(**)
		1	0	22.39	0.173	100
		1	12	22.58	0.181	100
		1	24	23.00	0.200	100
	QPSK	12	0	21.72	0.149	100
		12	6	22.00	0.158	100
		12	11	22.12	0.163	100
5		25	0	22.08	0.161	100
5		1	0	21.85	0.153	100
		1	12	21.87	0.154	100
		1	24	22.33	0.171	100
	16QAM	12	0	20.88	0.122	100
		12	6	21.01	0.126	100
		12	11	21.20	0.132	100
		25	0	21.26	0.134	100

_			RB	Max. output p	oower(dBm)	
Band Width	Modulation	Modulation RB		824 1	ИНZ	Limit
wiatii		Size	Offset	dBm	W	(W)
		1	0	22.25	0.168	100
		1	24	22.86	0.193	100
		1	49	22.38	0.173	100
	QPSK	25	0	21.95	0.157	100
		25	12	22.01	0.159	100
		25	24	22.12	0.163	100
10		50	0	22.13	0.163	100
10		1	0	21.55	0.143	100
		1	24	22.29	0.169	100
		1	49	21.60	0.145	100
	16QAM	25	0	21.11	0.129	100
		25	12	21.16	0.131	100
		25	24	21.14	0.130	100
		50	0	21.22	0.132	100

F-TP22-6\(Rev. 04) Page 32 of 72



8.8.2. EFFECTIVE RADIATED POWER

Freq	Bandwidth	Modulation	Measured	Substitute	Ant. Gain	C.L	Dal	Limit	EF	₹P
(MHz)	bandwidth	Modulation	Level (dBm) Level		el (dBm) (dBd)		Pol	W	W	dBm
024.0	LTE B26/	QPSK	-31.28	29.86	-10.25	1.41	Н	.7.00	0.066	18.20
824.0	5 MHz	16QAM	-31.98	29.16	-10.25	1.41	Н	< 7.00	0.056	17.50

Freq	Dan dividela	Madulatian	Measured Substitute Ant. Ga	Measured Substitute Ant. Gain		Measured Substitute Ant. Gain		Measured Substitute Ant. Gain		Measured Substitute Ant. Gain		Measured Substitute Ant. Gain		Dal	Limit	EF	RP
(MHz)	Bandwidth	dth Modulation	Level (dBm)	Level (dBm)	(dBd)	C.L	Pol	W	W	dBm							
024.0	LTE B26/	QPSK	-31.83	29.31	-10.25	1.41	Н	-7.00	0.058	17.65							
824.0	10 MHz	16QAM	-32.71	28.43	-10.25	1.41	Н	< 7.00	0.048	16.77							

F-TP22-6\(Rev. 04) Page 33 of 72



8.8.3. RADIATED SPURIOUS EMISSIONS

■ MODE: <u>LTE B26</u>

■ MODULATION SIGNAL: 5 MHz QPSK

■ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit
	1 648.00	-44.54	9.70	-55.13	2.04	V	-47.47	-13.00
26790 (824.0)	2 472.00	-44.85	10.46	-49.87	2.54	Н	-41.95	-13.00
(024.0)	3 296.00	-41.44	12.07	-42.49	2.95	V	-33.37	-13.00

F-TP22-6\(Rev. 04) Page 34 of 72



8.8.4. CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	5	924.0	3.6980	27.976	-67.011	-39.035	-13.00
26	10	824.0	3.6980	27.976	-67.007	-39.031	-13.00

Note:

- 1. Plots of the EUT's Conducted Spurious Emissions are shown Page 60 \sim 61.
- 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

8.8.5. CHANNEL EDGE(Part90)

- Test Channel: 26790(824.0MHz)

- Plots of the EUT's Band Edge are shown Page 62 ~ 67.

8.8.6. BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)

- Plots of the EUT's Band Edge are shown Page 68 ~ 71.

F-TP22-6\(Rev. 04) Page 35 of 72



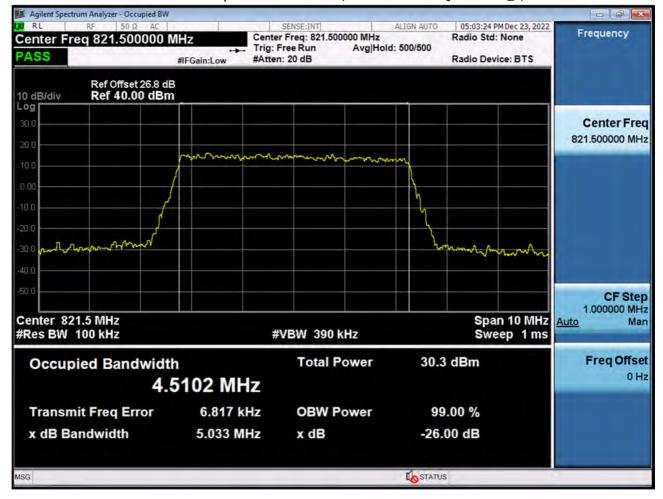


F-TP22-6\(Rev. 04) Page 36 of 72



HCT

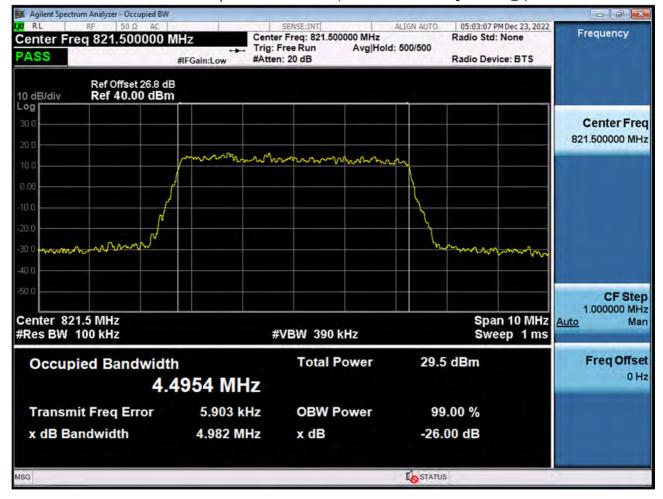
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 QPSK RB 25_0)



F-TP22-6\(Rev. 04) Page 37 of 72



BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 16QAM RB 25_0)

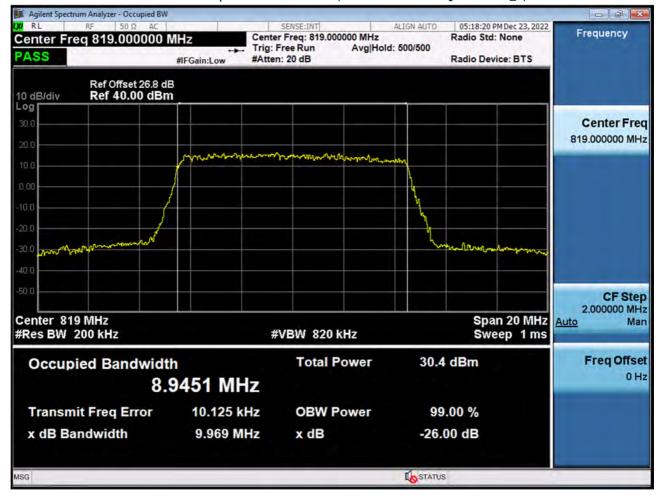


F-TP22-6\(Rev. 04) Page 38 of 72



HCT

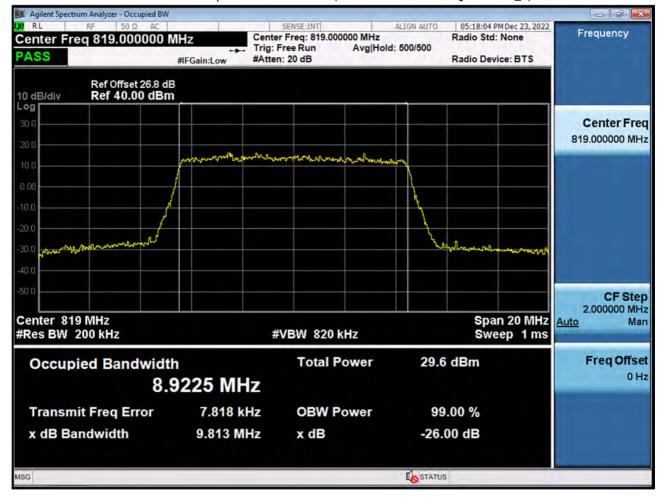
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 QPSK RB 50_0)



F-TP22-6\(Rev. 04) Page 39 of 72



BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 16QAM RB 50_0)

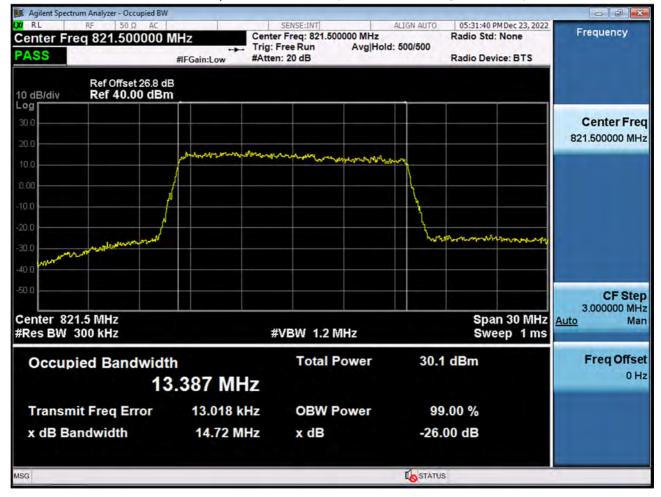


F-TP22-6\(Rev. 04) Page 40 of 72



ИСТ

BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 QPSK RB 75_0)

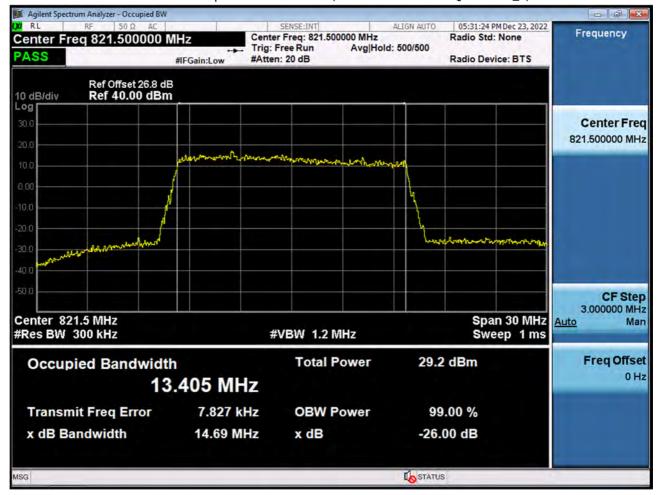


F-TP22-6\(Rev. 04) Page 41 of 72



HCT

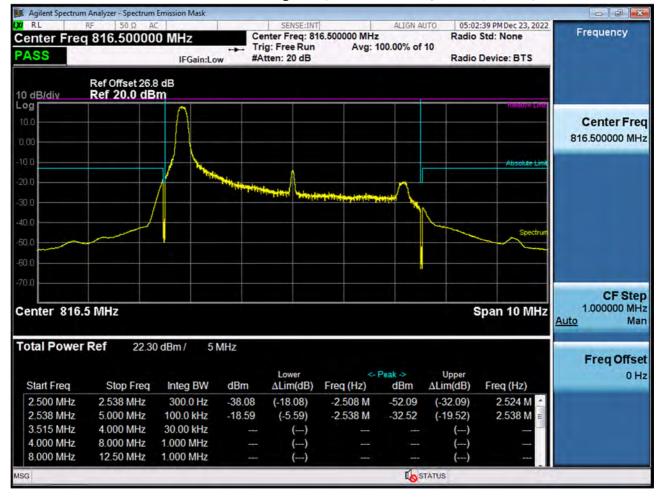
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 16QAM RB 75_0)



F-TP22-6\(Rev. 04) Page 42 of 72



BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK RB 1, Offset 0)



F-TP22-6\(Rev. 04) Page 43 of 72



BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK_RB25_Offset 0)



F-TP22-6\(Rev. 04) Page 44 of 72



BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK RB 1, Offset 0)



F-TP22-6\(Rev. 04) Page 45 of 72



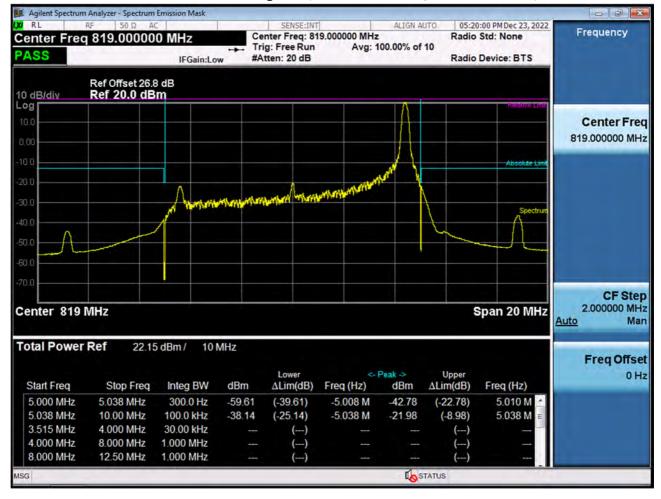
BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK_RB50_Offset 0)



F-TP22-6\(Rev. 04) Page 46 of 72



BAND 26. Mid Channel Edge Plot (10 M BW Ch. 26740 QPSK_RB1_Offset 49)



F-TP22-6\(Rev. 04) Page 47 of 72



BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset 0)



F-TP22-6\(Rev. 04) Page 48 of 72



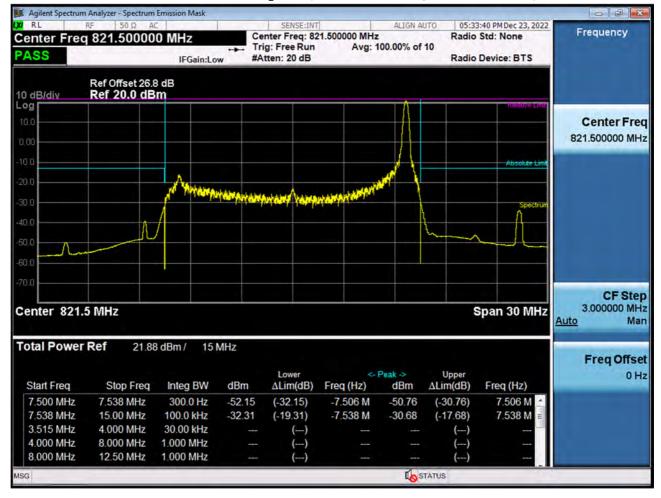
BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 75, Offset0)



F-TP22-6\(Rev. 04) Page 49 of 72



BAND 26. Mid Channel Edge Plot (15 M BW Ch.26765 QPSK_RB1_Offset 74)



F-TP22-6\(Rev. 04) Page 50 of 72

밀



HCT

BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset74)



F-TP22-6\(Rev. 04) Page 51 of 72

밀



BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK_RB75_Offset 0)



F-TP22-6\(Rev. 04) Page 52 of 72



BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB1_Offset 24)



F-TP22-6\(Rev. 04) Page 53 of 72



BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB25_Offset 0)



F-TP22-6\(Rev. 04) Page 54 of 72



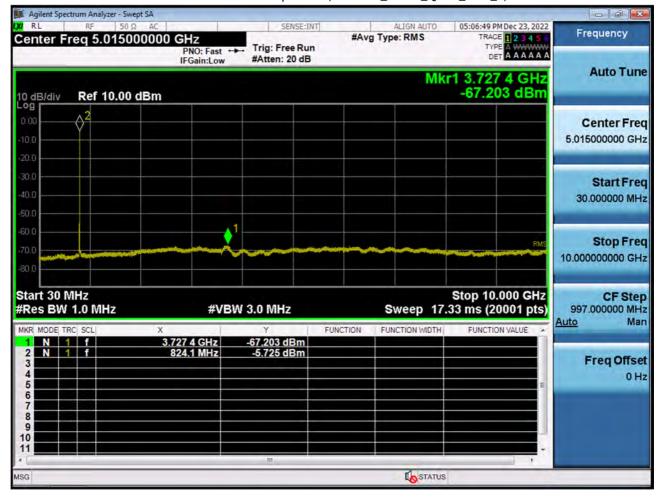
BAND 26. Conducted Spurious (26715 ch_5 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 55 of 72



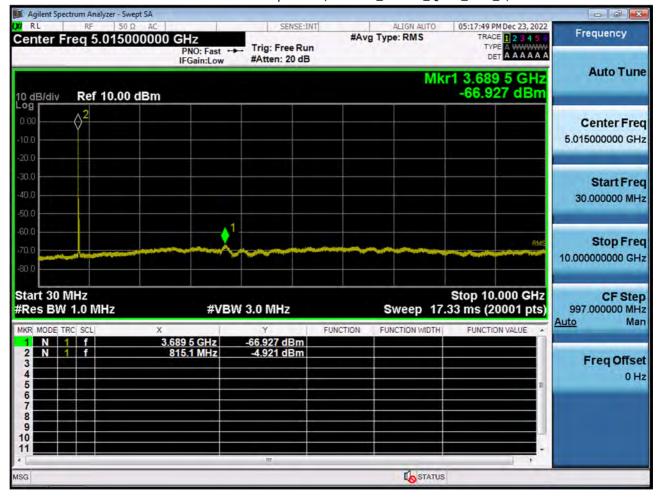
BAND 26. Conducted Spurious (26765 ch_5 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 56 of 72



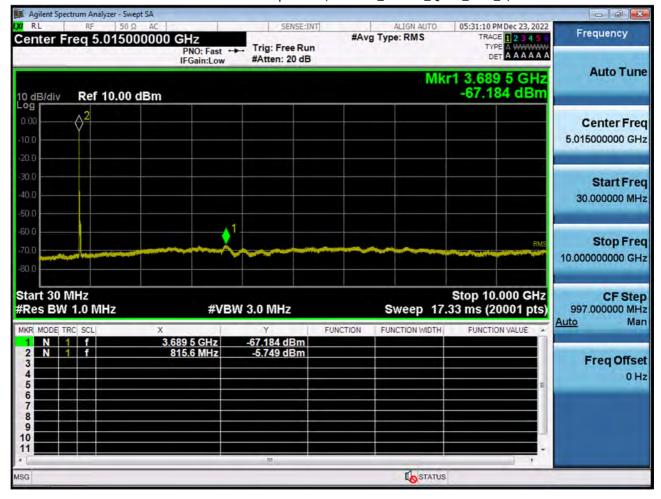
BAND 26. Conducted Spurious (26740 ch_10 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 57 of 72



BAND 26. Conducted Spurious (26765 ch_15 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 58 of 72



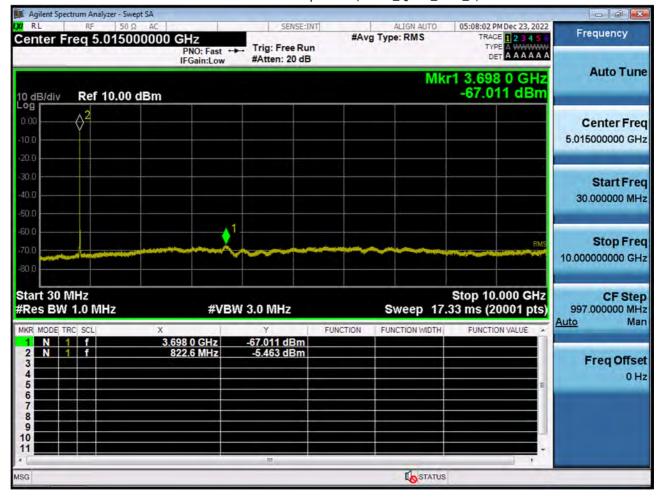
Report No. HCT-RF-2301-FC011

10. TEST PLOTS (STRADDLE CHANNEL)

F-TP22-6\(Rev. 04) Page 59 of 72



BAND 26. Conducted Spurious (5 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 60 of 72



BAND 26. Conducted Spurious (10 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 61 of 72



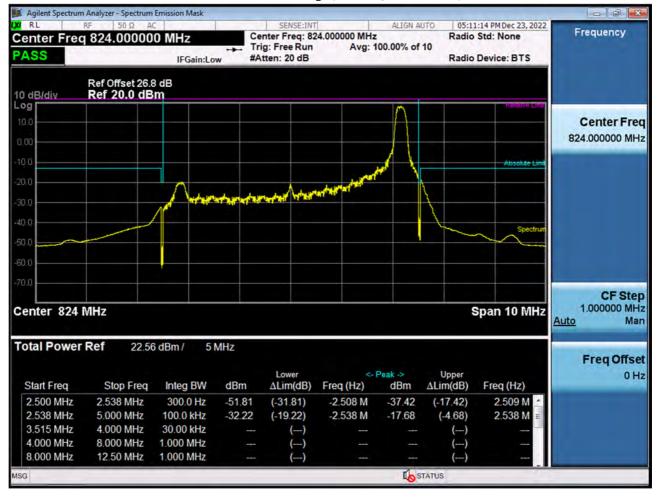
BAND 26. Channel Edge (5 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 62 of 72



BAND 26. Channel Edge (5 MHz_QPSK_RB 1_24)



F-TP22-6\(Rev. 04) Page 63 of 72



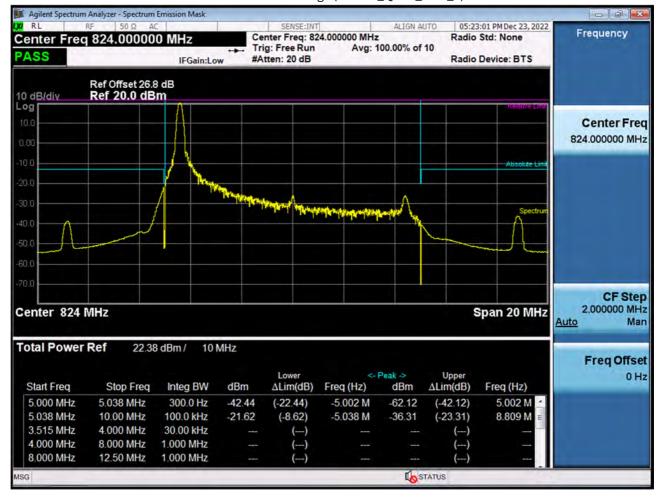
BAND 26. Channel Edge (5 MHz_QPSK_Full RB)



F-TP22-6\(Rev. 04) Page 64 of 72



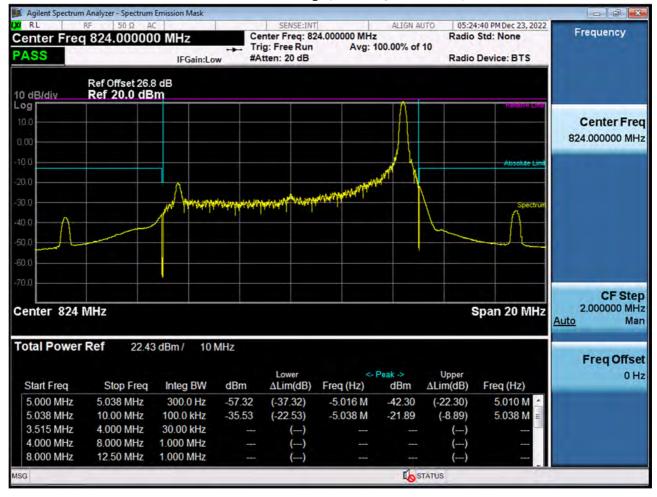
BAND 26. Channel Edge (10 MHz_QPSK_RB 1_0)



F-TP22-6\(Rev. 04) Page 65 of 72



BAND 26. Channel Edge (10 MHz_QPSK_RB 1_49)



F-TP22-6\(Rev. 04) Page 66 of 72



BAND 26. Channel Edge (10 MHz_QPSK_Full RB)



F-TP22-6\(Rev. 04) Page 67 of 72

밀



BAND 26. Band Edge (5 MHz_QPSK_RB 1_24)



F-TP22-6\(Rev. 04) Page 68 of 72

밀



BAND 26. Band Edge (5 MHz_QPSK_ Full RB)

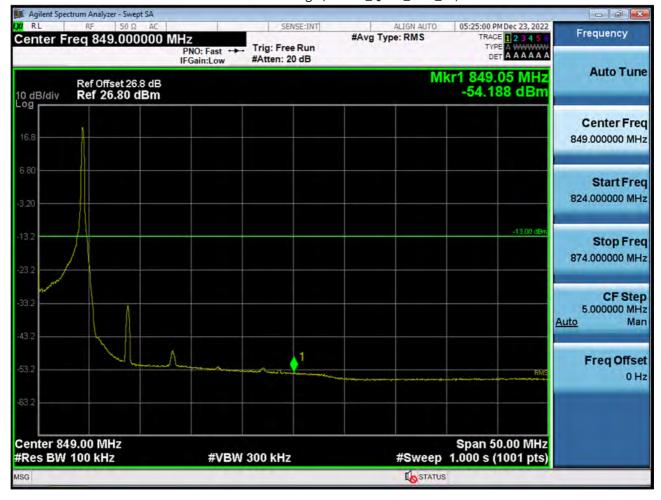


F-TP22-6\(Rev. 04) Page 69 of 72

밀



BAND 26. Band Edge (10 MHz_QPSK_RB 1_49)



F-TP22-6\(Rev. 04) Page 70 of 72

밀



Report No. HCT-RF-2301-FC011

BAND 26. Band Edge (10 MHz_QPSK_ Full RB)



F-TP22-6\(Rev. 04) Page 71 of 72





Report No. HCT-RF-2301-FC011

11 ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2301-FC011-P

F-TP22-6\(Rev. 04) Page 72 of 72