TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: **47 CFR FCC Part 27**
47 CFR FCC Part 2

Report No.: RFCDVB-WTW-P22080669G

FCC ID: QYLFN990K12

Product: 5G NR Module

Brand: Getac

Model No.: FN990A28

Received Date: 2025/11/14

Test Date: 2025/12/2 ~ 2026/1/8

Issued Date: 2026/1/12

Applicant: Getac Technology Corporation.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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FCC Registration / Designation Number: 788550 / TW0003

Approved by: Jeremy . Lin , **Date:** 2026/1/12

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P22080669G	Original release.	2026/1/12

1 Certificate

Product:	5G NR Module
Brand:	Getac
Test Model:	FN990A28
Sample Status:	Engineering sample
Applicant:	Getac Technology Corporation.
Test Date:	2025/12/2 ~ 2026/1/8
Standard:	47 CFR FCC Part 27 47 CFR FCC Part 2
Measurement procedure:	ANSI/TIA/EIA-603-E 2016 ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03r01 KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 27.50(k)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	N/A	Refer to Note
Part 27.50(k)(4)	Peak to Average Ratio	N/A	Refer to Note
Part 2.1049	Bandwidth	N/A	Refer to Note
Part 2.1051 Part 27.53(n)	Conducted Spurious Emissions	N/A	Refer to Note
Part 2.1053 Part 27.53(n)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -19.97 dB at 281.23 MHz
Part 2.1053 Part 27.53(n)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -26.73 dB at 6920.00 MHz
Part 2.1055 Part 27.54	Frequency Stability	N/A	Refer to Note

Note:

1. Only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions were performed for this report. Other testing data please refer to WWAN module (FCC ID: RI7FN990A28) certified report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
Equivalent Isotropically Radiated Power	-	1.371 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	5G NR Module
Brand	Getac
Test Model	FN990A28
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
EUT Category	Portable station
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
Support Bands	B42
LTE bands support CA mode	42C

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model	Difference
Tablet	Getac	K120G3	For marketing purpose
		K120Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose and no impact safety related critical components and constructions.)	

2. The End-product uses following accessories.

Adapter 1		
Brand	Model	Specification
Chicony	A20-065N3A	I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5.0V, 3.0A, 15.0W / 9V, 3A / 12V, 3A / 15V, 3A / 20.0V, 3.25A, 65.0W 1.45m non-shielded DC cable no core
Adapter 2		
Brand	Model	Specification
FSP	FSP065-RBBN3	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 19.0Vdc, 3.42A, 65.0W 1.5m non-shielded DC cable no core
Battery 1		
Brand	Model	Specification
Getac	BP3S1P2100S-01	Rating: 11.1Vdc 2040mAh, 23Wh Typical Capacity: 2100mAh, 24Wh
Battery 2		
Brand	Model	Specification
Getac	BP4S1P3450P-01	Rating: 14.4Vdc 3300mAh, 48Wh Typical Capacity: 3450mAh, 50Wh
Touch Pen		
Brand	Model	Description
Getac	340142000064	2.8mm + 1500g Spring
K120 Keyboard Dock (Support Unit)		
Brand	Model	Description
Getac	K120-Keyboard Dock 3.0	-

3. EUT Overview

LTE Band 42 (3.45 GHz ~ 3.55 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
5 MHz	3452.5 ~ 3547.5	QPSK	0.040	16.06
		16QAM	0.032	15.08
		64QAM	0.024	13.85
		256QAM	0.013	11
10 MHz	3455 ~ 3545	QPSK	0.040	16.06
		16QAM	0.032	15
		64QAM	0.024	13.86
		256QAM	0.013	10.98
15 MHz	3457.5 ~ 3542.5	QPSK	0.041	16.1
		16QAM	0.032	15.02
		64QAM	0.025	13.9
		256QAM	0.013	10.97
20 MHz	3460 ~ 3540	QPSK	0.042	16.2
		16QAM	0.033	15.17
		64QAM	0.025	14.01
		256QAM	0.013	11.11

LTE Band 42C (3.45 GHz ~ 3.55 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
20 MHz + 20 MHz	3460 ~ 3540	QPSK	0.044	16.41
		16QAM	0.032	15.08
		64QAM	0.025	13.95
		256QAM	0.015	11.86
20 MHz + 15 MHz	3460 ~ 3542.5	QPSK	0.043	16.29
		16QAM	0.032	15.04
		64QAM	0.024	13.84
		256QAM	0.015	11.76
15 MHz + 20 MHz	3457.5 ~ 3540	QPSK	0.043	16.34
		16QAM	0.032	15.03
		64QAM	0.024	13.85
		256QAM	0.015	11.81
20 MHz + 10 MHz	3460 ~ 3545	QPSK	0.043	16.35
		16QAM	0.032	15.03
		64QAM	0.024	13.84
		256QAM	0.015	11.78
10 MHz + 20 MHz	3455 ~ 3540	QPSK	0.043	16.29
		16QAM	0.032	15.00
		64QAM	0.024	13.87
		256QAM	0.015	11.78

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
20 MHz + 5 MHz	3460 ~ 3547.5	QPSK	0.043	16.31
		16QAM	0.032	15.01
		64QAM	0.024	13.85
		256QAM	0.015	11.78
5 MHz + 20 MHz	3452.5 ~ 3540	QPSK	0.043	16.34
		16QAM	0.032	15.05
		64QAM	0.025	13.92
		256QAM	0.015	11.81

4. The EUT support the following CA Configuration.

Band Configuration
42C

5. E-UTRA CA configuration / Bandwidth combination set.

E-UTRA CA configuration / Bandwidth combination set		
E-UTRA CA Configuration	Component carriers in order of increasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated bandwidth [MHz]
CA_42C	20+5 / 5+20	25
	20+10 / 10+20	30
	20+15 / 15+20	35
	20+20	40

* For CA mode configuration, please consult the manufacturer to declare the test mode.
* 42C is continuous CA and maximum combination is 20M+20M.

6. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
7. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. 0		Ant. 1	
Antenna Type	PIFA	Antenna Type	PIFA
Connector Type	I-PEX	Connector Type	I-PEX
Brand	AWAN	Brand	AWAN
Model	422144600011	Model	422144600028

Band		Freq. Range (MHz)	Ant. 0 Gain (dBi)	Ant. 1 Gain (dBi)
LTE Band 42	1TX (Ant. 0)	3400 ~ 3600	-5.20	-7.14
LTE Band 43	1TX (Ant. 0)	3600 ~ 3800	-5.43	-6.65
LTE Band 48	1TX (Ant. 0)	3550 ~ 3700	-5.61	-7.14

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The EUT has the following Battery: Battery 1 / Battery 2. Pre-scan these batteries and find the worst case as a representative test condition. 2. The EUT has the following Adapter: Adapter 1 / Adapter 2. Pre-scan these batteries and find the worst case as a representative test condition. 3. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. Battery Worst Condition: Battery 2 2. Adater Worst Condition: Adapter 1 3. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis (Tablet Mode)

3.3.1 LTE Band 42

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	A	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	A	42190(3460.00 MHz) + 42388(3479.80 MHz) 42491(3490.10 MHz) + 42689(3509.90 MHz) 42791(3520.10 MHz) + 42990(3540.00 MHz)	20 MHz + 20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42190(3460.00 MHz) + 42361(3477.10 MHz) 42517(3492.70 MHz) + 42688(3509.80 MHz) 42844(3525.40 MHz) + 43015(3542.50 MHz)	20 MHz + 15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42165(3457.50 MHz) + 42336(3474.60 MHz) 42492(3490.20 MHz) + 42663(3507.30 MHz) 42819(3522.90 MHz) + 42990(3540.00 MHz)	15 MHz + 20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42190(3460.00 MHz) + 42334(3474.40 MHz) 42543(3495.30 MHz) + 42687(3509.70 MHz) 42896(3530.60 MHz) + 43040(3545.00 MHz)	20 MHz + 10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB

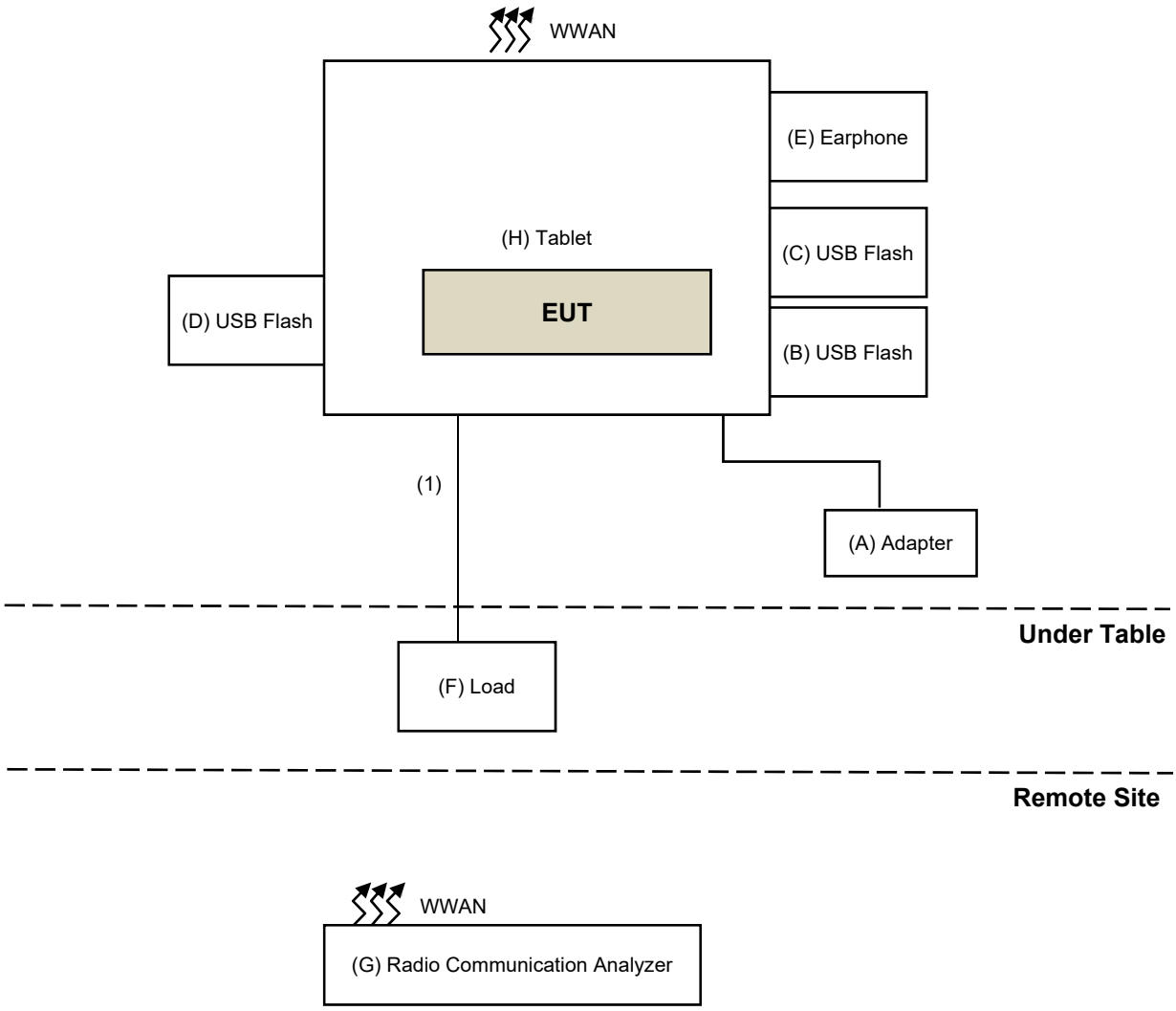
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	A	42140(3455.00 MHz) + 42284(3469.40 MHz) 42493(3490.30 MHz) + 42637(3504.70 MHz) 42846(3525.60 MHz) + 42990(3540.00 MHz)	10 MHz + 20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42190(3460.00 MHz) + 42307(3471.70 MHz) 42569(3497.90 MHz) + 42686(3509.60 MHz) 42948(3535.80 MHz) + 43065(3547.50 MHz)	20 MHz + 5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		42115(3452.50 MHz) + 42232(3464.20 MHz) 42494(3490.40 MHz) + 42611(3502.10 MHz) 42873(3528.30 MHz) + 42990(3540.00 MHz)	5 MHz + 20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	A, B	42190(3460.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	A	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK	1 RB
		42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK	1 RB
	A	42190(3460.00 MHz) + 42388(3479.80 MHz) 42491(3490.10 MHz) + 42689(3509.90 MHz) 42791(3520.10 MHz) + 42990(3540.00 MHz)	20 MHz + 20 MHz	QPSK	1 RB
EUT Configure Mode:	A	Tablet Mode			
	B	NB Mode			

3.4 Test Program Used and Operation Descriptions

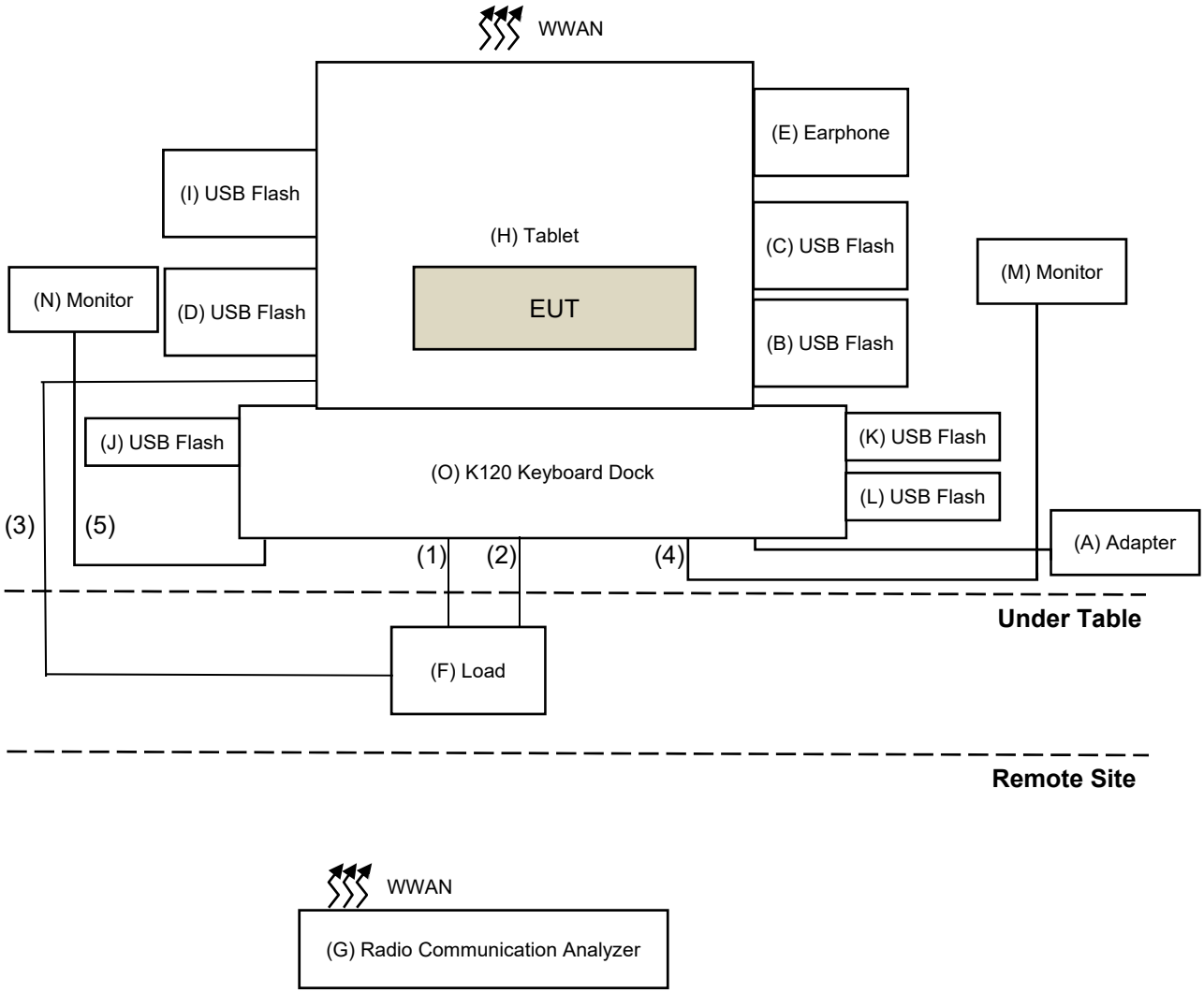
There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B


WWAN
(E) Earphone
(I) USB Flash
(H) Tablet
(C) USB Flash
(M) Monitor
(N) Monitor
(D) USB Flash
EUT
(B) USB Flash
(J) USB Flash
(O) K120 Keyboard Dock
(K) USB Flash
(L) USB Flash
(3)
(5)
(1)
(2)
(4)
(A) Adapter
Under Table
(F) Load
Remote Site

WWAN
(G) Radio Communication Analyzer

3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Chicony	A20-065N3A	N/A	N/A	Supplied by applicant
B	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
F	Load	N/A	N/A	N/A	N/A	Provided by Lab
G	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
H	Tablet	Getac	K120G3	N/A	N/A	Supplied by applicant
I	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
J	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
K	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
L	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
M	Monitor	DELL	A14S2421HSXmTW	CN-01KWFW-WSL00-24C-714B	NA	Provided by Lab
N	Monitor	DELL	A14S2421HSXmTW	CN-01KWFW-WSL00-24C-711B	NA	Provided by Lab
O	K120 Keyboard Dock	Getac	K120-Detachable Keyboard 3.0	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	1.5	N	0	Provided by Lab
2	RJ-45 Cable	1	1.5	N	0	Provided by Lab
3	Console Cable	1	1.5	N	0	Provided by Lab
4	HDMI Cable	1	1.5	N	0	Provided by Lab
5	DP Cable	1	1.5	N	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2025/5/26	2026/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/12/3 ~ 2025/12/30

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/3 ~ 2026/1/8

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/2

5 Limits of Test Items

5.1 Equivalent Isotropically Radiated Power

For LTE Band 42 / LTE Band 42C (3.45 GHz ~ 3.55 GHz):

Mobile devices are limited to 1Watt (30 dBm) EIRP.

5.2 Radiated Spurious Emissions below 1GHz

For LTE Band 42 / LTE Band 42C (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

5.3 Radiated Spurious Emissions above 1GHz

For LTE Band 42 / LTE Band 42C (3.45 GHz ~ 3.55 GHz):

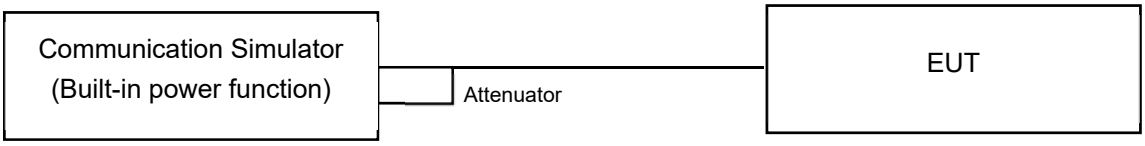
According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

6 Test Arrangements

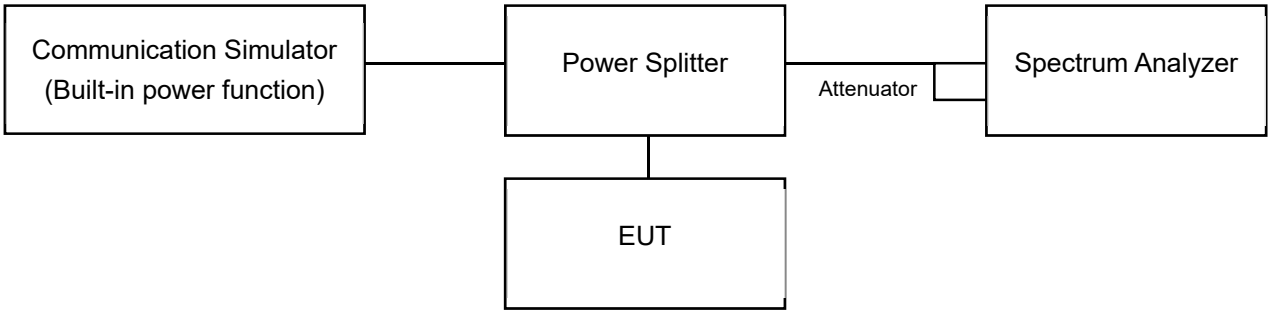
6.1 Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



For measuring output power using spectrum



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The average (rms) power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$EIRP = P_{Meas} + G_T$

$ERP = P_{Meas} + G_T - 2.15$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

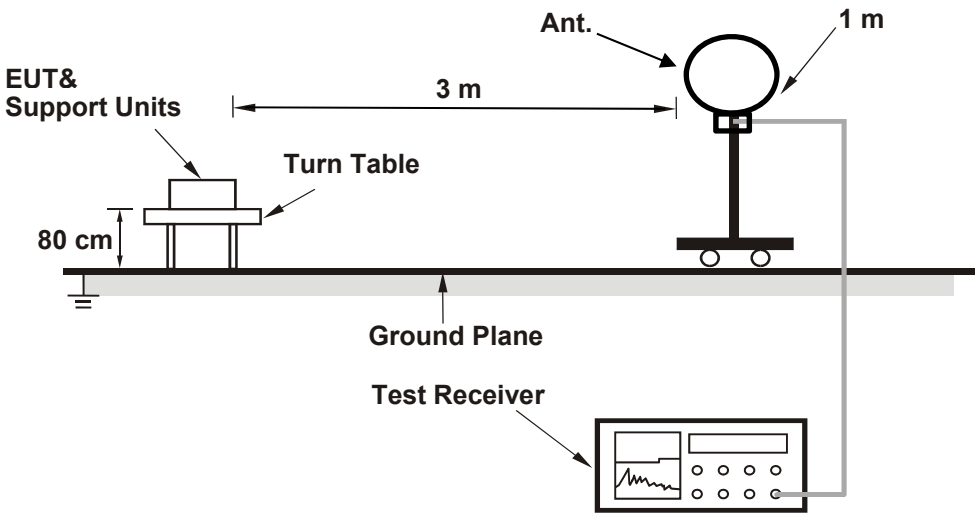
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

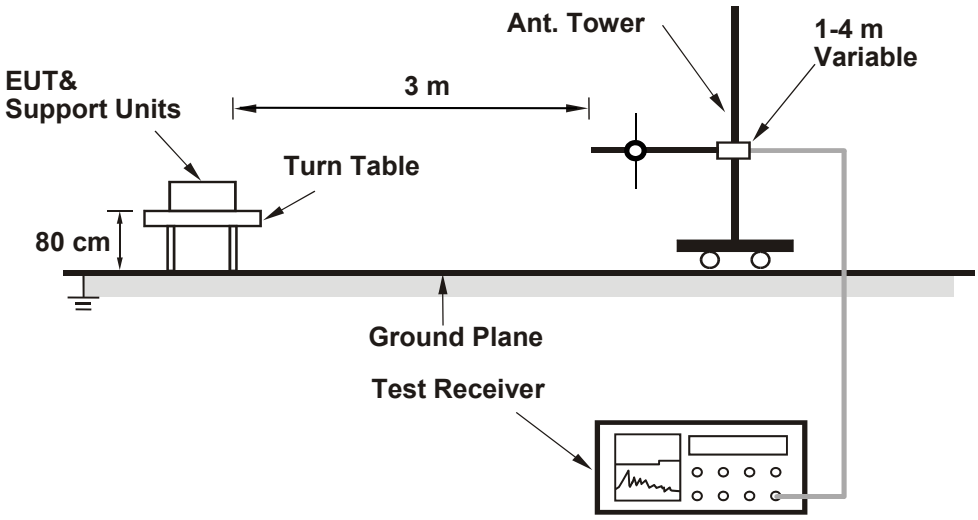
6.2 Radiated Spurious Emissions below 1GHz

6.2.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.2.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

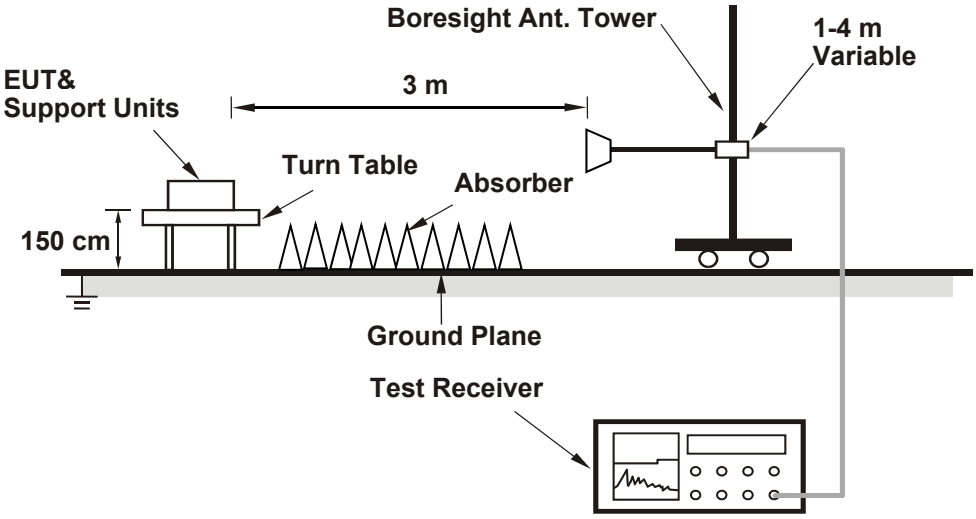
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.3 Radiated Spurious Emissions above 1GHz

6.3.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.3.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

7 Test Results of Test Item

7.1 Equivalent Isotropically Radiated Power

Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao

7.1.1 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42115	CH 42590	CH 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
QPSK	1	0	21.25	21.26	21.13
	1	12	21.26	21.06	21.11
	1	24	21.22	21.05	21.08
	12	0	20.2	20.1	20.19
	12	6	20.13	20.15	20.11
	12	13	20.13	20.04	19.99
	25	0	20.07	20.01	20.08
16QAM	1	0	20.14	20.14	20.28
	1	12	20.11	20.1	20.11
	1	24	20.15	20.05	20.12
	12	0	19.2	19.08	19.04
	12	6	19.08	18.99	19.16
	12	13	19.08	19.02	19.03
	25	0	19.12	19.06	19.12
64QAM	1	0	19.05	19.03	19.01
	1	12	19.01	19	19.04
	1	24	19.01	19.01	19.05
	12	0	18.13	17.96	18
	12	6	18.08	17.94	18.02
	12	13	18.07	17.96	17.92
	25	0	18.12	18.12	18.08
256QAM	1	0	16.1	16.01	16.14
	1	12	16.03	15.98	16.02
	1	24	16.01	15.97	15.94
	12	0	16.2	16.03	16.14
	12	6	16.12	16.02	15.97
	12	13	16.1	15.97	15.93
	25	0	16.02	15.95	15.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.99	21.26	14.79	16.06	30
16QAM	18.99	20.28	13.79	15.08	30
64QAM	17.92	19.05	12.72	13.85	30
256QAM	15.93	16.2	10.73	11	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42140	CH 42590	CH 43040
			3455 MHz	3500 MHz	3545 MHz
QPSK	1	0	21.26	21.26	21.24
	1	24	21.12	21.19	21.06
	1	49	21.16	21.01	21.17
	25	0	20.18	20.09	20.04
	25	12	20.1	20.06	20.15
	25	25	20.09	19.95	20.01
	50	0	20.21	20.18	20.1
16QAM	1	0	20.17	20.1	20.13
	1	24	20.16	20.2	20.07
	1	49	20.18	20.11	20.04
	25	0	19.16	19.03	19.08
	25	12	19.05	19.07	18.98
	25	25	19.05	18.91	18.95
	50	0	19.17	19.1	19.04
64QAM	1	0	19.06	19.02	19.03
	1	24	19.03	18.98	19.01
	1	49	19.01	19	19
	25	0	18.14	18.14	18.02
	25	12	18.05	18.05	18.04
	25	25	18.01	17.97	17.96
	50	0	18.2	18	18.07
256QAM	1	0	16.09	16	16.02
	1	24	16.07	16	15.97
	1	49	16.01	15.94	15.92
	25	0	16.12	16.1	16.18
	25	12	16.11	16.02	16.03
	25	25	16.01	16.03	15.91
	50	0	16.13	15.95	16.07

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.95	21.26	14.75	16.06	30
16QAM	18.91	20.2	13.71	15	30
64QAM	17.96	19.06	12.76	13.86	30
256QAM	15.91	16.18	10.71	10.98	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42165	CH 42590	CH 43015
			3457.5 MHz	3500 MHz	3542.5 MHz
QPSK	1	0	21.3	21.14	21.22
	1	37	21.18	21.1	21.09
	1	74	21.08	21.03	21.12
	36	0	20.08	20.1	20.18
	36	19	20.17	20	20.08
	36	39	20.05	19.95	20.05
	75	0	20.15	19.98	20.16
16QAM	1	0	20.16	20.22	20.13
	1	37	20.15	20.02	20.04
	1	74	20.13	20.03	20.03
	36	0	19.06	19.1	19.11
	36	19	19.05	19.11	19.01
	36	39	19.03	19	18.96
	75	0	19.2	19.12	19.12
64QAM	1	0	19.1	19.01	18.95
	1	37	19.08	19.05	19.03
	1	74	19.05	19.05	18.93
	36	0	18.04	18.18	18.07
	36	19	18.03	18.02	18.06
	36	39	18.01	17.93	17.98
	75	0	18.12	18.14	18.11
256QAM	1	0	16.09	16.02	15.97
	1	37	16.06	15.99	16.02
	1	74	16.03	15.99	16.03
	36	0	16.11	16.06	16.17
	36	19	16.08	16.05	16.04
	36	39	16.06	16.07	16.07
	75	0	16.11	16.07	15.97

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.95	21.3	14.75	16.1	30
16QAM	18.96	20.22	13.76	15.02	30
64QAM	17.93	19.1	12.73	13.9	30
256QAM	15.97	16.17	10.77	10.97	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42190	CH 42590	CH 42990
			3460 MHz	3500 MHz	3540 MHz
QPSK	1	0	21.4	21.24	21.39
	1	50	21.22	21.13	21.29
	1	99	21.2	21.05	21.32
	50	0	20.08	20.13	20.22
	50	25	20.06	20.18	20.29
	50	50	20.05	20.1	20.24
	100	0	20.11	20.04	20.29
16QAM	1	0	20.29	20.2	20.37
	1	50	20.18	20.11	20.3
	1	99	20.14	20.05	20.24
	50	0	19.07	19.13	19.28
	50	25	19.04	19.13	19.21
	50	50	19.02	19.04	19.23
	100	0	19.07	19.03	19.32
64QAM	1	0	19.11	19.04	19.15
	1	50	19.07	19.1	19.21
	1	99	19.03	19.01	19.1
	50	0	18.18	18.1	18.19
	50	25	18.01	17.96	18.18
	50	50	18.01	17.96	18.09
	100	0	18.11	18.08	18.26
256QAM	1	0	16.06	15.98	16.19
	1	50	16.03	15.99	16.11
	1	99	16.01	16	16.04
	50	0	16.17	16.02	16.31
	50	25	16.13	15.99	16.16
	50	50	16.11	15.98	15.92
	100	0	16.01	15.97	16.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.04	21.4	14.84	16.2	30
16QAM	19.02	20.37	13.82	15.17	30
64QAM	17.96	19.21	12.76	14.01	30
256QAM	15.92	16.31	10.72	11.11	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 LTE Band 42C (3.45 GHz ~ 3.55 GHz)

LTE Band 42C

Confugure	Combination	PCC							SCC							Measurement Power
		Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Tx Power with UL-CA Active (dBm) Total
Intra Band Contiguous	42C	42	20	QPSK20M	1	0	42190	3460	42	20	QPSK20M	1	99	42388	3479.8	13.23
					1	99						1	0			21.08
		42	20	QPSK20M	1	0	42491	3490.1	42	20	QPSK20M	1	99	42689	3509.9	13.71
					1	99						1	0			21.61
		42	20	QPSK20M	1	0	42791	3520.1	42	20	QPSK20M	1	99	42990	3540	13.19
					1	99						1	0			21.04
	42C	42	20	QPSK20M	1	0	42190	3460	42	15	QPSK15M	1	74	42361	3477.1	13.12
					1	99						1	0			21.06
		42	20	QPSK20M	1	0	42517	3492.7	42	15	QPSK15M	1	74	42688	3509.8	13.63
					1	99						1	0			21.49
		42	20	QPSK20M	1	0	42844	3525.4	42	15	QPSK15M	1	74	43015	3542.5	13.15
					1	99						1	0			20.94
	42C	42	15	QPSK15M	1	0	42165	3457.5	42	20	QPSK20M	1	99	42336	3474.6	13.13
					1	74						1	0			20.98
		42	15	QPSK15M	1	0	424925	3490.2	42	20	QPSK20M	1	99	42663	3507.3	13.61
					1	74						1	0			21.54
		42	15	QPSK15M	1	0	42819	3522.9	42	20	QPSK20M	1	99	42990	3540	13.10
					1	74						1	0			20.96
	42C	42	20	QPSK20M	1	0	42190	3460	42	10	QPSK10M	1	49	42334	3474.4	13.16
					1	99						1	0			20.99
		42	20	QPSK20M	1	0	42543	3495.3	42	10	QPSK10M	1	49	42687	3509.7	13.65
					1	99						1	0			21.55
		42	20	QPSK20M	1	0	42896	3530.6	42	10	QPSK10M	1	49	43040	3545	13.10
					1	99						1	0			20.98
	42C	42	10	QPSK10M	1	0	42140	3455	42	20	QPSK20M	1	99	42284	3469.4	13.09
					1	49						1	0			21.01
		42	10	QPSK10M	1	0	42493	3490.3	42	20	QPSK20M	1	99	42637	3504.7	13.63
					1	49						1	0			21.49
		42	10	QPSK10M	1	0	42846	3525.6	42	20	QPSK20M	1	99	42990	3540	13.08
					1	49						1	0			20.94
	42C	42	20	QPSK20M	1	0	42190	3460	42	5	QPSK5M	1	24	42307	3471.7	13.13
					1	99						1	0			21.06
		42	20	QPSK20M	1	0	42569	3497.9	42	5	QPSK5M	1	24	42686	3509.6	13.63
					1	99						1	0			21.51
		42	20	QPSK20M	1	0	42948	3535.8	42	5	QPSK5M	1	24	43065	3547.5	13.05
					1	99						1	0			20.99
	42C	42	5	QPSK5M	1	0	42115	3452.5	42	20	QPSK20M	1	99	42232	3464.2	13.14
					1	24						1	0			20.98
		42	5	QPSK5M	1	0	42494	3490.4	42	20	QPSK20M	1	99	42611	3502.1	13.61
					1	24						1	0			21.54
		42	5	QPSK5M	1	0	42873	3528.3	42	20	QPSK20M	1	99	42990	3540	13.07
					1	24						1	0			20.92

Confugure	Combination	PCC							SCC							Measurement Power
		Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Tx Power with UL-CA Active (dBm) Total
Intra Band Contiguous	42C	42	20	16QAM20M	1	0	42190	3460	42	20	16QAM20M	1	99	42388	3479.8	12.27
					1	99						1	0			20.27
		42	20	16QAM20M	1	0	42490	3490	42	20	16QAM20M	1	99	42689	3509.9	12.37
					1	99						1	0			20.28
		42	20	16QAM20M	1	0	42792	3520.2	42	20	16QAM20M	1	99	42990	3540	12.21
					1	99						1	0			20.22
	42C	42	20	16QAM20M	1	0	42190	3460	42	15	16QAM15M	1	74	42361	3477.1	12.19
					1	99						1	0			20.17
		42	20	16QAM20M	1	0	42517	3492.7	42	15	16QAM15M	1	74	42688	3509.8	12.29
					1	99						1	0			20.24
		42	20	16QAM20M	1	0	42844	3525.4	42	15	16QAM15M	1	74	43015	3542.5	12.10
					1	99						1	0			20.12
	42C	42	15	16QAM15M	1	0	42165	3457.5	42	20	16QAM20M	1	99	42336	3474.6	12.19
					1	74						1	0			20.19
		42	15	16QAM15M	1	0	424925	3490.2	42	20	16QAM20M	1	99	42663	3507.3	12.32
					1	74						1	0			20.23
		42	15	16QAM15M	1	0	42819	3522.9	42	20	16QAM20M	1	99	42990	3540	12.14
					1	74						1	0			20.12
	42C	42	20	16QAM20M	1	0	42190	3460	42	10	16QAM10M	1	49	42334	3474.4	12.20
					1	99						1	0			20.16
		42	20	16QAM20M	1	0	42543	3495.3	42	10	16QAM10M	1	49	42687	3509.7	12.29
					1	99						1	0			20.23
		42	20	16QAM20M	1	0	42896	3530.6	42	10	16QAM10M	1	49	43040	3545	12.11
					1	99						1	0			20.18
	42C	42	10	16QAM10M	1	0	42140	3455	42	20	16QAM20M	1	99	42284	3469.4	12.15
					1	49						1	0			20.17
		42	10	16QAM10M	1	0	42493	3490.3	42	20	16QAM20M	1	99	42637	3504.7	12.27
					1	49						1	0			20.20
		42	10	16QAM10M	1	0	42846	3525.6	42	20	16QAM20M	1	99	42990	3540	12.13
					1	49						1	0			20.20
	42C	42	20	16QAM20M	1	0	42190	3460	42	5	16QAM5M	1	24	42307	3471.7	12.18
					1	99						1	0			20.17
		42	20	16QAM20M	1	0	42569	3497.9	42	5	16QAM5M	1	24	42686	3509.6	12.26
					1	99						1	0			20.21
		42	20	16QAM20M	1	0	42948	3535.8	42	5	16QAM5M	1	24	43065	3547.5	12.14
					1	99						1	0			20.14
	42C	42	5	16QAM5M	1	0	42115	3452.5	42	20	16QAM20M	1	99	42232	3464.2	12.15
					1	24						1	0			20.21
		42	5	16QAM5M	1	0	42494	3490.4	42	20	16QAM20M	1	99	42611	3502.1	12.34
					1	24						1	0			20.25
		42	5	16QAM5M	1	0	42873	3528.3	42	20	16QAM20M	1	99	42990	3540	12.09
					1	24						1	0			20.10

Confugure	Combination	PCC							SCC							Measurement Power
		Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Tx Power with UL-CA Active (dBm) Total
Intra Band Contiguous	42C	42	20	64QAM20M	1	0	42190	3460	42	20	64QAM20M	1	99	42388	3479.8	11.12
					1	99						1	0			19.09
		42	20	64QAM20M	1	0	42490	3490	42	20	64QAM20M	1	99	42689	3509.9	11.26
					1	99						1	0			19.15
		42	20	64QAM20M	1	0	42792	3520.2	42	20	64QAM20M	1	99	42990	3540	11.06
					1	99						1	0			19.08
	42C	42	20	64QAM20M	1	0	42190	3460	42	15	64QAM15M	1	74	42361	3477.1	11.06
					1	99						1	0			19.04
		42	20	64QAM20M	1	0	42517	3492.7	42	15	64QAM15M	1	74	42688	3509.8	11.22
					1	99						1	0			19.04
		42	20	64QAM20M	1	0	42844	3525.4	42	15	64QAM15M	1	74	43015	3542.5	10.97
					1	99						1	0			18.99
	42C	42	15	64QAM15M	1	0	42165	3457.5	42	20	64QAM20M	1	99	42336	3474.6	11.09
					1	74						1	0			18.99
		42	15	64QAM15M	1	0	424925	3490.2	42	20	64QAM20M	1	99	42663	3507.3	11.12
					1	74						1	0			19.05
		42	15	64QAM15M	1	0	42819	3522.9	42	20	64QAM20M	1	99	42990	3540	10.98
					1	74						1	0			18.97
	42C	42	20	64QAM20M	1	0	42190	3460	42	10	64QAM10M	1	49	42334	3474.4	11.04
					1	99						1	0			18.98
		42	20	64QAM20M	1	0	42543	3495.3	42	10	64QAM10M	1	49	42687	3509.7	11.16
					1	99						1	0			19.04
		42	20	64QAM20M	1	0	42896	3530.6	42	10	64QAM10M	1	49	43040	3545	11.02
					1	99						1	0			19.03
	42C	42	10	64QAM10M	1	0	42140	3455	42	20	64QAM20M	1	99	42284	3469.4	11.00
					1	49						1	0			19.04
		42	10	64QAM10M	1	0	42493	3490.3	42	20	64QAM20M	1	99	42637	3504.7	11.24
					1	49						1	0			19.07
		42	10	64QAM10M	1	0	42846	3525.6	42	20	64QAM20M	1	99	42990	3540	10.93
					1	49						1	0			19.07
	42C	42	20	64QAM20M	1	0	42190	3460	42	5	64QAM5M	1	24	42307	3471.7	11.03
					1	99						1	0			18.98
		42	20	64QAM20M	1	0	42569	3497.9	42	5	64QAM5M	1	24	42686	3509.6	11.15
					1	99						1	0			19.05
		42	20	64QAM20M	1	0	42948	3535.8	42	5	64QAM5M	1	24	43065	3547.5	11.00
					1	99						1	0			19.05
	42C	42	5	64QAM5M	1	0	42115	3452.5	42	20	64QAM20M	1	99	42232	3464.2	11.09
					1	24						1	0			18.96
		42	5	64QAM5M	1	0	42494	3490.4	42	20	64QAM20M	1	99	42611	3502.1	11.16
					1	24						1	0			19.12
		42	5	64QAM5M	1	0	42873	3528.3	42	20	64QAM20M	1	99	42990	3540	10.94
					1	24						1	0			18.94

Confugure	Combination	PCC							SCC							Measurement Power
		Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Band	BW (MHz)	Modulation	RB Size	RB Offset	UL Channel	UL Frequency (MHz)	Tx Power with UL-CA Active (dBm) Total
Intra Band Contiguous	42C	42	20	256QAM20M	1	0	42190	3460	42	20	256QAM20M	1	99	42388	3479.8	9.05
					1	99						1	0			17.05
		42	20	256QAM20M	1	0	42490	3490	42	20	256QAM20M	1	99	42689	3509.9	9.21
					1	99						1	0			17.06
		42	20	256QAM20M	1	0	42792	3520.2	42	20	256QAM20M	1	99	42990	3540	8.93
					1	99						1	0			16.97
	42C	42	20	256QAM20M	1	0	42190	3460	42	15	256QAM15M	1	74	42361	3477.1	8.96
					1	99						1	0			16.96
		42	20	256QAM20M	1	0	42517	3492.7	42	15	256QAM15M	1	74	42688	3509.8	9.12
					1	99						1	0			16.93
		42	20	256QAM20M	1	0	42844	3525.4	42	15	256QAM15M	1	74	43015	3542.5	8.82
					1	99						1	0			16.93
	42C	42	15	256QAM15M	1	0	42165	3457.5	42	20	256QAM20M	1	99	42336	3474.6	8.96
					1	74						1	0			17.01
		42	15	256QAM15M	1	0	424925	3490.2	42	20	256QAM20M	1	99	42663	3507.3	9.12
					1	74						1	0			16.93
		42	15	256QAM15M	1	0	42819	3522.9	42	20	256QAM20M	1	99	42990	3540	8.83
					1	74						1	0			16.89
	42C	42	20	256QAM20M	1	0	42190	3460	42	10	256QAM10M	1	49	42334	3474.4	8.90
					1	99						1	0			16.91
		42	20	256QAM20M	1	0	42543	3495.3	42	10	256QAM10M	1	49	42687	3509.7	9.15
					1	99						1	0			16.98
		42	20	256QAM20M	1	0	42896	3530.6	42	10	256QAM10M	1	49	43040	3545	8.81
					1	99						1	0			16.89
	42C	42	10	256QAM10M	1	0	42140	3455	42	20	256QAM20M	1	99	42284	3469.4	8.93
					1	49						1	0			16.96
		42	10	256QAM10M	1	0	42493	3490.3	42	20	256QAM20M	1	99	42637	3504.7	9.13
					1	49						1	0			16.98
		42	10	256QAM10M	1	0	42846	3525.6	42	20	256QAM20M	1	99	42990	3540	8.84
					1	49						1	0			16.89
	42C	42	20	256QAM20M	1	0	42190	3460	42	5	256QAM5M	1	24	42307	3471.7	8.94
					1	99						1	0			16.97
		42	20	256QAM20M	1	0	42569	3497.9	42	5	256QAM5M	1	24	42686	3509.6	9.08
					1	99						1	0			16.98
		42	20	256QAM20M	1	0	42948	3535.8	42	5	256QAM5M	1	24	43065	3547.5	8.85
					1	99						1	0			16.86
	42C	42	5	256QAM5M	1	0	42115	3452.5	42	20	256QAM20M	1	99	42232	3464.2	8.95
					1	24						1	0			17.01
		42	5	256QAM5M	1	0	42494	3490.4	42	20	256QAM20M	1	99	42611	3502.1	9.11
					1	24						1	0			17.00
		42	5	256QAM5M	1	0	42873	3528.3	42	20	256QAM20M	1	99	42990	3540	8.86
					1	24						1	0			16.88

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	13.05	21.61	7.85	16.41	30.00
16QAM	12.09	20.28	6.89	15.08	30.00
64QAM	10.93	19.15	5.73	13.95	30.00
256QAM	8.81	17.06	3.61	11.86	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.2 Radiated Spurious Emissions below 1GHz

7.2.1 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

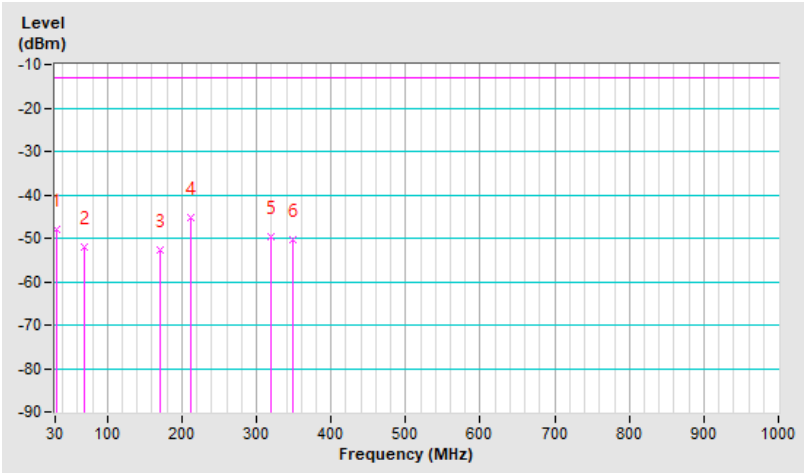
Mode A

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	32.91	-47.84	-13.00	-34.84	1.00 H	51	57.72	-105.56
2	69.77	-51.92	-13.00	-38.92	1.50 H	259	54.01	-105.93
3	170.65	-52.82	-13.00	-39.82	1.00 H	288	50.95	-103.77
4	212.36	-45.34	-13.00	-32.34	1.50 H	153	60.62	-105.96
5	319.06	-49.55	-13.00	-36.55	1.00 H	206	51.54	-101.09
6	349.13	-50.46	-13.00	-37.46	1.00 H	209	50.32	-100.78

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

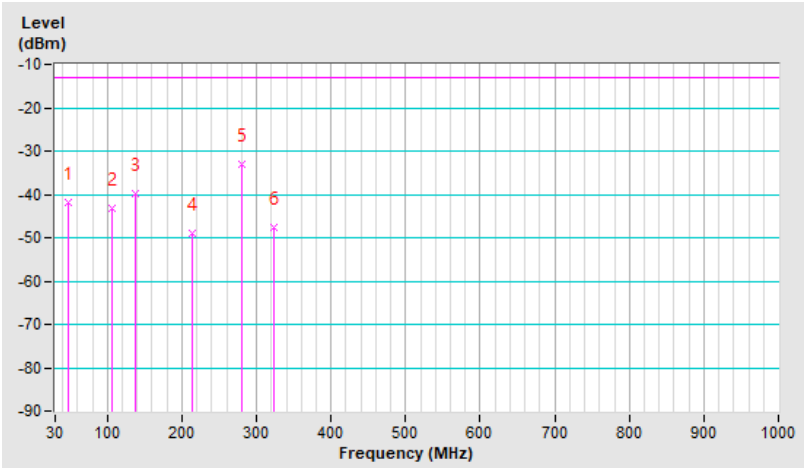


RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	48.43	-42.77	-13.00	-28.77	1.49 V	260	62.34	-104.11
2	106.63	-43.16	-13.00	-30.16	1.49 V	174	64.14	-107.30
3	136.70	-39.94	-13.00	-26.94	1.49 V	115	64.39	-104.33
4	213.33	-48.82	-13.00	-35.82	1.00 V	6	57.11	-105.93
5	**281.23**	**-32.97**	**-13.00**	**-19.97**	**1.00 V**	**170**	**69.26**	**-102.23**
6	323.91	-47.54	-13.00	-34.54	1.00 V	98	53.42	-100.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



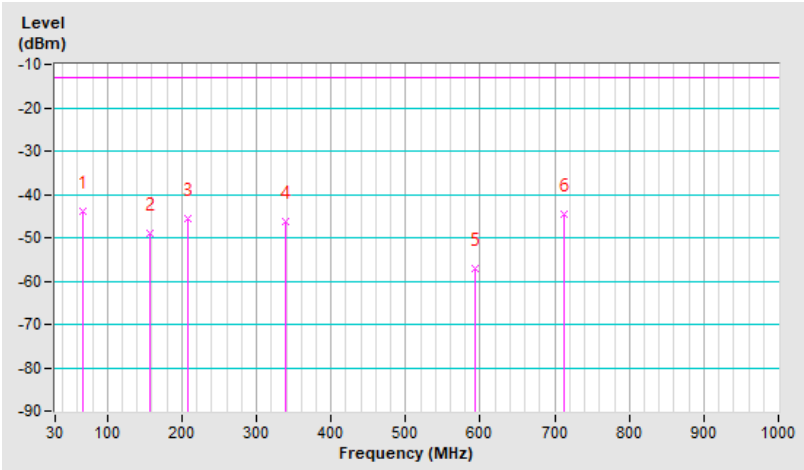
Mode B

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	66.86	-43.78	-13.00	-30.78	2.00 H	128	61.51	-105.29
2	158.04	-49.01	-13.00	-36.01	1.00 H	289	54.37	-103.38
3	208.48	-45.55	-13.00	-32.55	1.50 H	184	60.56	-106.11
4	339.43	-46.20	-13.00	-33.20	1.50 H	2	54.64	-100.84
5	592.60	-57.19	-13.00	-44.19	1.00 H	279	38.71	-95.90
6	711.91	-44.65	-13.00	-31.65	1.00 H	101	49.31	-93.96

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

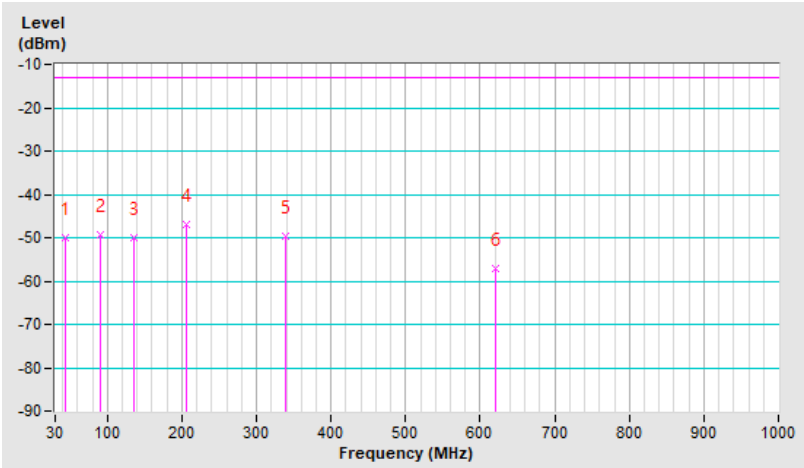


RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	44.55	-49.84	-13.00	-36.84	1.50 V	269	54.46	-104.30
2	91.11	-49.46	-13.00	-36.46	1.00 V	192	60.10	-109.56
3	135.73	-49.86	-13.00	-36.86	2.00 V	144	54.52	-104.38
4	206.54	-47.03	-13.00	-34.03	1.00 V	165	59.13	-106.16
5	339.43	-49.73	-13.00	-36.73	2.00 V	327	51.11	-100.84
6	619.76	-57.12	-13.00	-44.12	1.00 V	282	38.20	-95.32

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 42115：3452.5 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6905.00	-42.20	-13.00	-29.20	1.65 H	203	44.39	-86.59
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6905.00	-40.77	-13.00	-27.77	2.20 V	146	45.82	-86.59

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 42590：3500 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-40.47	-13.00	-27.47	1.70 H	200	45.23	-85.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-40.02	-13.00	-27.02	2.24 V	148	45.68	-85.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	**Channel**	CH 43065：3547.5 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7095.00	-40.67	-13.00	-27.67	1.74 H	203	44.91	-85.58
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7095.00	-39.87	-13.00	-26.87	2.21 V	142	45.71	-85.58

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42190：3460 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6920.00	-42.35	-13.00	-28.35	1.66 H	199	45.09	-86.44
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**6920.00**	**-39.73**	**-13.00**	**-26.73**	**2.18 V**	**151**	**46.71**	**-86.44**

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42590：3500 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-42.02	-13.00	-28.02	1.68 H	203	44.68	-85.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.00	-39.91	-13.00	-26.91	2.18 V	150	45.79	-85.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	**Channel**	CH 42990：3540 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7080.00	-42.53	-13.00	-28.53	1.69 H	205	44.03	-85.56
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7080.00	-39.88	-13.00	-26.88	2.24 V	144	45.68	-85.56

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.2 LTE Band 42C (3.45 GHz ~ 3.55 GHz)

RF Mode	LTE Band 42C Channel Bandwidth: 20MHz + 20MHz	**Channel**	CH 42190：3460 MHz+ CH 42388：3479.8 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6920.00	-43.72	-13.00	-30.72	1.82 H	222	42.72	-86.44
2	6959.60	-43.45	-13.00	-30.45	1.85 H	212	42.59	-86.04
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6920.00	-42.67	-13.00	-29.67	2.39 V	154	43.77	-86.44
2	6959.60	-42.33	-13.00	-29.33	2.42 V	158	43.71	-86.04

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42C Channel Bandwidth: 20MHz + 20MHz	**Channel**	CH 42490：3490 MHz+ CH 42689：3509.9 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6980.00	-43.12	-13.00	-30.12	1.78 H	225	42.75	-85.87
2	7019.60	-42.96	-13.00	-29.96	1.81 H	221	42.66	-85.62
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6980.00	-42.05	-13.00	-29.05	2.36 V	157	43.82	-85.87
2	7019.60	-41.85	-13.00	-28.85	2.40 V	161	43.77	-85.62

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42C Channel Bandwidth: 20MHz + 20MHz	**Channel**	CH 42792：3520.2 MHz+ CH 42990：3540 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7040.40	-42.96	-13.00	-29.96	1.71 H	219	42.58	-85.54
2	7080.00	-43.04	-13.00	-30.04	1.65 H	213	42.52	-85.56
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7040.40	-41.85	-13.00	-28.85	2.38 V	159	43.69	-85.54
2	7080.00	-41.93	-13.00	-28.93	2.43 V	164	43.63	-85.56

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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