

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Report No.: RFBBQZ-WTW-P26040594-8

FCC ID: PY326200664

Product: Nighthawk 5G M8 Pro

Brand: NETGEAR

Model No.: MR8400

Received Date: 2026/5/6

Test Date: 2026/6/10 ~ 2026/7/18

Issued Date: 2026/8/6

Applicant and Manufacturer: NETGEAR, INC.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:

Jeremy Lin

Date: 2026/8/6

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
RFBBQZ-WTW-P26040594-8	Original release.	2026/8/6

1 Certificate

Product: Nighthawk 5G M8 Pro

Brand: NETGEAR

Test Model: MR8400

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: 2026/6/10 ~ 2026/7/18

Standard: 47 CFR FCC Part 96

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 940660 D01 Part 96 CBRS Eqpt v03

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 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 2.1046 Part 96.41(b)	Maximum Power Spectral Density	N/A	This device is End User Device.
Part 96.41(g)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 96.41(e)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -12.37 dB at 943.74 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.91 dB at 7250.00 MHz
Part 2.1055	Frequency Stability	Pass	Meet the requirement of limit.

Note: 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 (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	18 GHz ~ 40 GHz	1.77 dB
	1 GHz ~ 18 GHz	1.76 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Conducted Spurious Emissions	-	2.12 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB
Frequency Stability	-	0.176 ppm

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	Nighthawk 5G M8 Pro
Brand	NETGEAR
Test Model	MR8400
Status of EUT	Engineering sample
Power Supply Rating	3.85 Vdc from Battery 5 Vdc / 9 Vdc from Adapter
EUT Category	Portable station
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
LTE support SISO bands	B42, B43, B48
LTE support MIMO bands	-
Band Covered Information	B48 cover B42, B43 (all three B42, B43, B48 have the same frequency range (B42: 3550 to 3600 MHz, B43: 3600 to 3700 MHz) and the same bandwidth, only B48 was fully tested)

Note:

1. Based on engineering judgment and verification of the worst-case configuration, the WWAN bands for this device may reference the conducted test results of the certified modular device. Please refer to the table below for further details.

LTE Band	Remark	Reference Module FCC ID
B2	Conducted test result refers to module data	FCC ID: GKRRXLN4N
B4	Conducted test result refers to module data	
B5	Conducted test result refers to module data	
B7	Conducted test result refers to module data	
B12	Conducted test result refers to module data	
B13	Conducted test result refers to module data	
B14	Conducted test result refers to module data	
B17	Conducted test result refers to module data	
B25	Conducted test result refers to module data	
B26	Conducted test result refers to module data	
B30	Conducted test result refers to module data	
B38	Full Test (Remove PC2 in B38)	
B40	Full Test (Enable B40)	
B41	Conducted test result refers to module data	
B42	Conducted test result refers to module data	
B43	Conducted test result refers to module data	
B48	Conducted test result refers to module data	
B66	Conducted test result refers to module data	
B71	Conducted test result refers to module data	

Device has removed Intra-band CA modes form reference Module: 2C, 5B, 7C, 12B, 41C, 42C, 43C, 48B, 48C, 66B, 66C.

2. EUT Overview

LTE Band 48, Output Power: Full Power

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	3552.5 ~ 3697.5	QPSK	0.177	22.48	4M50G7D
		16QAM	0.146	21.64	4M50D7W
		64QAM	0.116	20.63	4M50D7W
		256QAM	0.064	18.06	4M50D7W
10 MHz	3555 ~ 3695	QPSK	0.174	22.41	8M98G7D
		16QAM	0.143	21.54	8M98D7W
		64QAM	0.114	20.55	8M98D7W
		256QAM	0.063	18.01	8M99D7W
15 MHz	3557.5 ~ 3692.5	QPSK	0.177	22.47	13M5G7D
		16QAM	0.145	21.61	13M5D7W
		64QAM	0.115	20.6	13M5D7W
		256QAM	0.064	18.06	13M5D7W
20 MHz	3560 ~ 3690	QPSK	0.183	22.62	18M0G7D
		16QAM	0.148	21.69	18M0D7W
		64QAM	0.117	20.69	18M0D7W
		256QAM	0.065	18.13	18M0D7W

LTE Band 48, Output Power: dBm/10 MHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
15 MHz	3557.5 ~ 3692.5	QPSK	0.173	22.39	13M5G7D
		16QAM	0.142	21.51	13M5D7W
		64QAM	0.112	20.5	13M5D7W
		256QAM	0.063	17.97	13M5D7W
20 MHz	3560 ~ 3690	QPSK	0.177	22.49	18M0G7D
		16QAM	0.143	21.54	18M0G7D
		64QAM	0.113	20.53	18M0D7W
		256QAM	0.063	17.98	18M0D7W

3. The EUT uses following accessories.

Battery	Brand	NETGEAR
	Model	W-20b
	Power Rating	3.85V, 19.96Wh
AC Adapter 1	Brand	NETGEAR
	Model	2AGD02131
	Part Number	332-11838-01
	AC Input	100-120Vac, 50/60 Hz
	DC Output	5V/9V, 3A/2.34A
	Manufacturer	CHANNEL WELL TECHNOLOGY
AC Adapter 2	Brand	NETGEAR
	Model	ADT-21NPD-09-EPCU
	Part Number	332-11830-01
	AC Input	100-120Vac, 50/60 Hz
	DC Output	5V/9V, 3A/2.34A
	Manufacturer	Honor: Vietnam Honor High Tech Co., Ltd.

Type C Cable	Brand	JI-HAW ELECTRONICS CO., LTD
	Model	310-10092-01
	Signal Line	0.95M

4. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
5. 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.

Type		Monopole				
Connector		NA				
Band		Freq. Range (MHz)	Gain (dBi)			
			Ant. 0	Ant. 1	Ant. 2	Ant. 3
LTE B2	1TX (Ant. 0)	1850~1910	1.26	-	-	2.21
LTE B4	1TX (Ant. 0)	1710 ~ 1755	1.14	-	-	1.37
LTE B5	1TX (Ant. 0)	824 ~ 849	1.12	-	-	-
LTE B7	1TX (Ant. 3)	2500 ~ 2570	1.25	-	-	1.58
LTE B12	1TX (Ant. 0)	698 ~ 716	-0.3	-	-	-
LTE B13	1TX (Ant. 0)	777 ~ 787	-0.08	-	-	-
LTE B14	1TX (Ant. 0)	788 ~ 798	-0.08	-	-	-
LTE B17	1TX (Ant. 0)	704 ~ 716	-0.3	-	-	-
LTE B25	1TX (Ant. 0)	1850 ~ 1915	1.26	-	-	2.21
LTE B26	1TX (Ant. 0)	814 ~ 849	1.12	-	-	-
LTE B30	1TX (Ant. 3)	2305 ~ 2315	0.85	-	-	1.41
LTE B38	1TX (Ant. 3)	2570 ~ 2620	1.03	-	-	1.58
LTE B40	1TX (Ant. 3)	2300 ~ 2400	-	-	-	1.41
LTE B41	1TX (Ant. 3)	2496 ~ 2690	1.25	1.01	1.09	1.58
LTE B42	1TX (Ant. 0)	3400 ~ 3600	3.31	-	-	2.07
LTE B43	1TX (Ant. 0)	3600 ~ 3800	3.31	-	-	1.86
LTE B48	1TX (Ant. 0)	3550 ~ 3700	3.31	2.14	1.83	2.07
LTE B66	1TX (Ant. 0)	1710 ~ 1780	1.14	-	-	1.37
LTE B71	1TX (Ant. 0)	663 ~ 698	-1.12	-	-	-

* 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. 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. 2. EUT has the following AC Adapter: AC Adapter 1 / AC Adapter 2. Pre-scan these AC Adapters and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case from all possible combinations of EUT configure mode (1Tx or 2Tx if available), power class, channel, bandwidth, modulation and RB mode. See below table(s) for details.
Worst Case:	1. X-axis/ Y-axis / Z-axis Worst Condition: X-axis 2. Adapter Worst Condition: AC Adapter 2

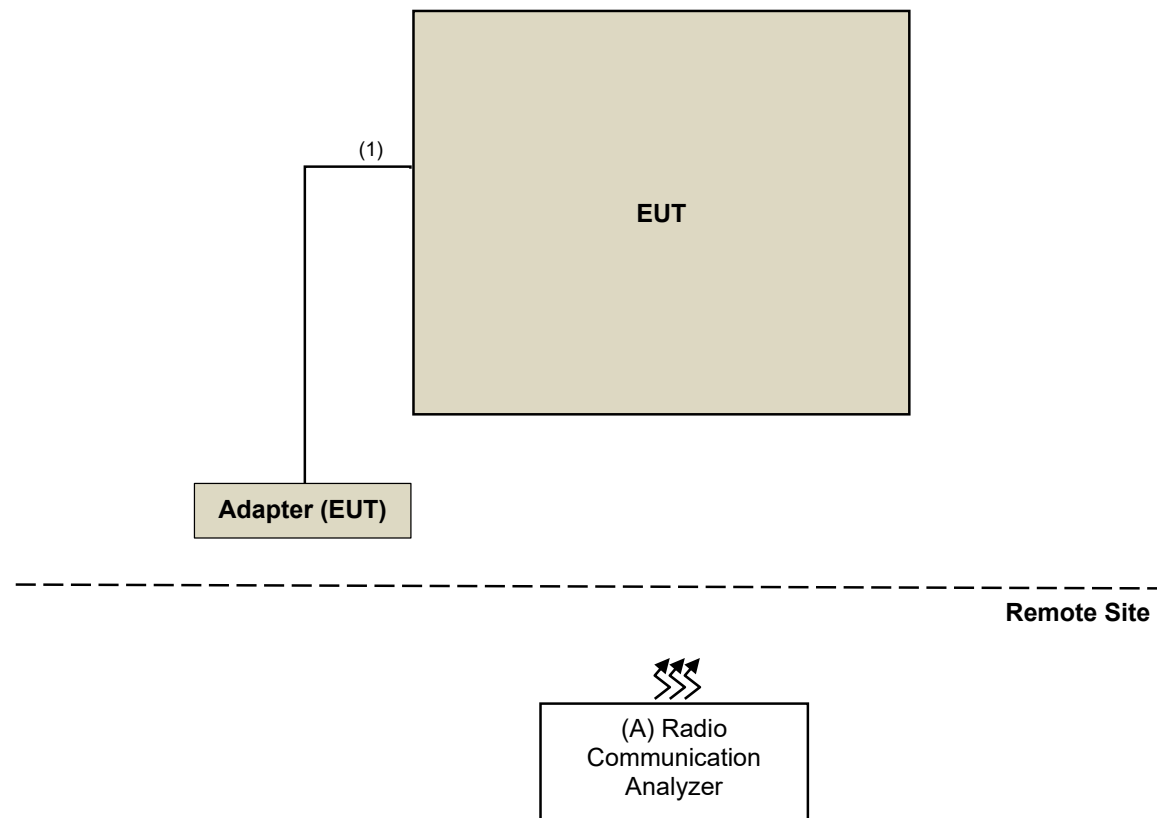
3.3.1 LTE Band 48

Test Item	Power Class	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	PC3	55265(3552.50 MHz) 55990(3625.00 MHz) 56715(3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		55290(3555.00 MHz) 55990(3625.00 MHz) 56690(3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		55315(3557.50 MHz) 55990(3625.00 MHz) 56665(3692.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		55340(3560.00 MHz) 55990(3625.00 MHz) 56640(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	PC3	55990(3625.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3	55265(3552.50 MHz) 55990(3625.00 MHz) 56715(3697.50 MHz)	5 MHz	QPSK	1 RB
		55340(3560.00 MHz) 55990(3625.00 MHz) 56640(3690.00 MHz)	20 MHz	QPSK	1 RB

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



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C Cable	1	0.95	No	0	Supplied by applicant

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 Maximum EIRP

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier Agilent	83017A	MY39501357	2026/6/10	2027/6/9
Preamplifier EMCI	EMC184045SE	980788	2026/1/13	2027/1/12
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2026/2/12	2027/2/11
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210103	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201241	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201244	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2026/6/29	2027/6/28
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/7/18

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2025/9/18	2026/9/17
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980798	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201249	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201251(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/6/10

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier Agilent	83017A	MY39501357	2026/6/10	2027/6/9
Preamplifier EMCI	EMC184045SE	980788	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210103	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201241	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201244	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/6/10 ~ 2026/6/16

5 Limits of Test Items

5.1 Maximum EIRP

For LTE Band 48:

Device Category	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

5.2 Radiated Spurious Emissions below 1GHz

For LTE Band 48:

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

5.3 Radiated Spurious Emissions above 1GHz

For LTE Band 48:

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

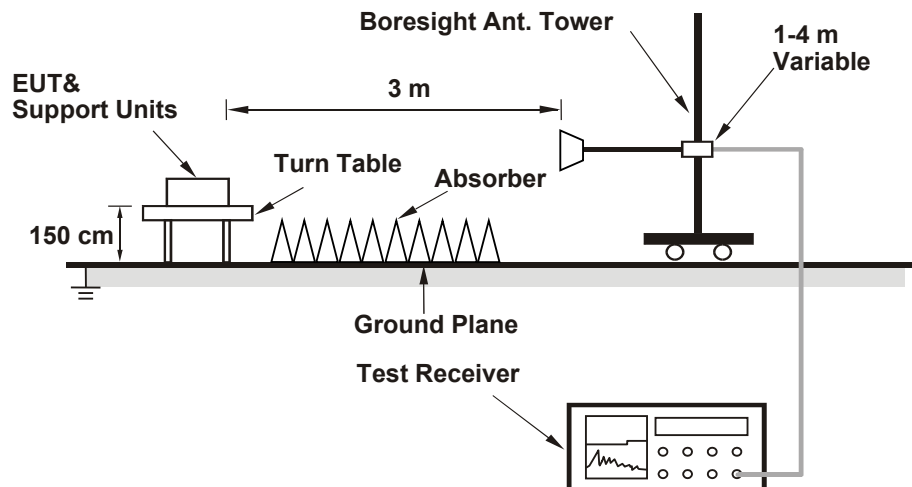
6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Radiated Power EIRP / ERP Measurement:

For Radiated Emission above 1 GHz



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

6.1.2 Test Procedure

Radiated Power EIRP / ERP Measurement:

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

Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer.

- In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 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.
 - 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.
 - 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.
 - Following C63.26 section 5.5 and 5.2.7. Set the detector to power averaging (rms) detector.
- EIRP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - ERP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Spectrum analyzer setting as below:

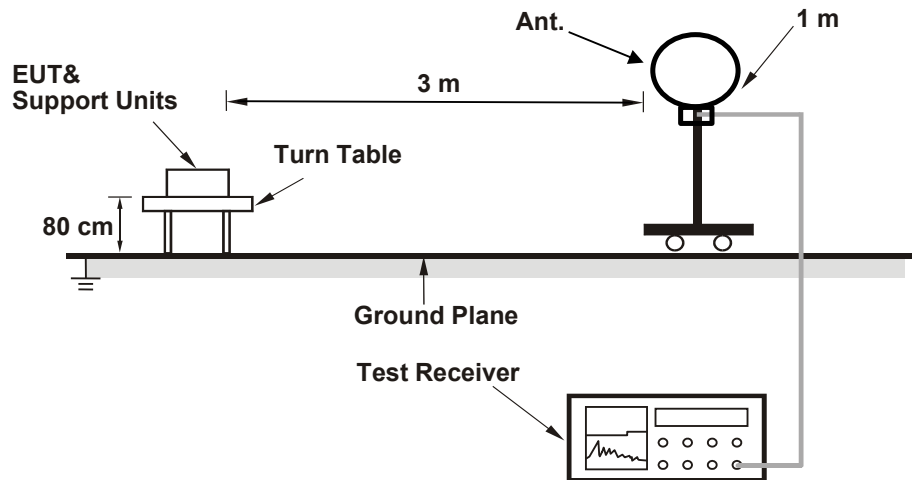
Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e. Set Sweep time = auto-couple.
- f. Detector = power averaging (rms).
- g. Set sweep trigger to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- j. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges.
- k. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

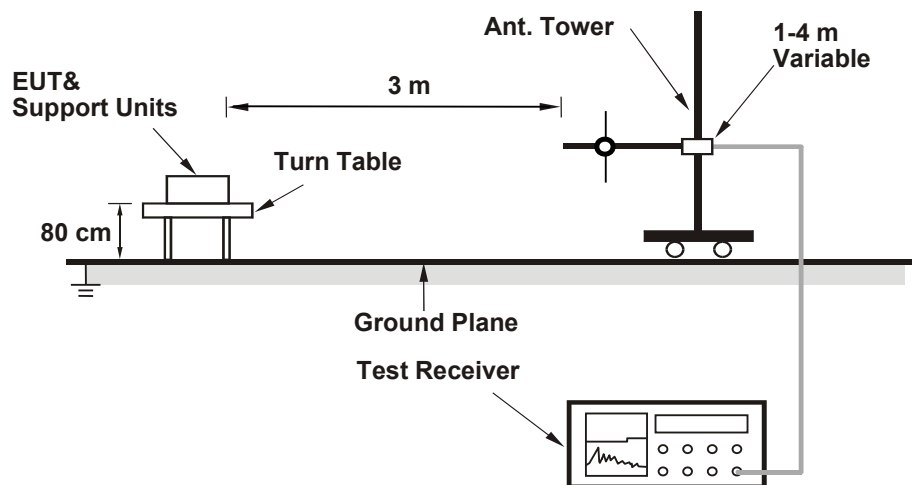
6.2 Radiated Spurious Emissions below 1GHz

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. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

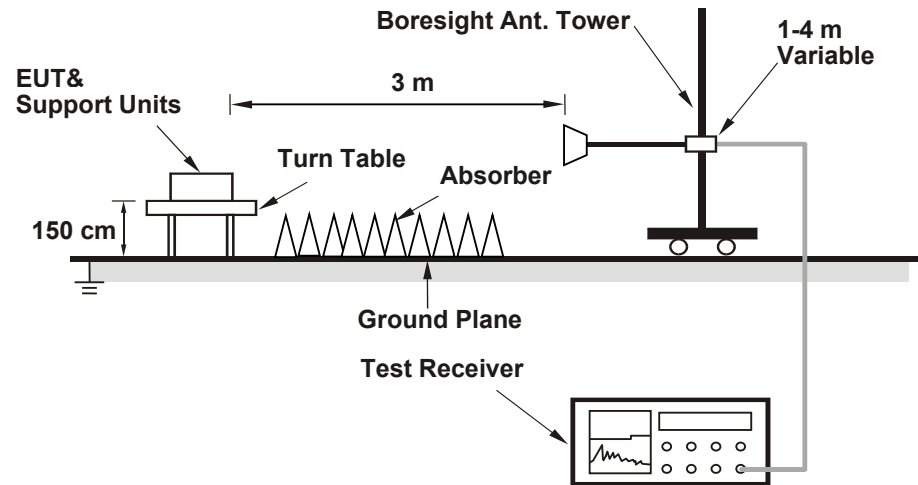
Note:

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.

- 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.
- 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.
- 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.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; 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 Maximum EIRP

Environmental Conditions:	25°C, 60% RH	Tested By:	Greg Lin
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7.1.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55265	3552.5	117.61	-95.26	171.791	22.35	23
	55990	3625	117.74	-95.26	177.011	22.48	23
	56715	3697.5	117.53	-95.26	168.655	22.27	23
16QAM	55265	3552.5	116.79	-95.26	142.233	21.53	23
	55990	3625	116.9	-95.26	145.881	21.64	23
	56715	3697.5	116.69	-95.26	138.995	21.43	23
64QAM	55265	3552.5	115.78	-95.26	112.72	20.52	23
	55990	3625	115.89	-95.26	115.611	20.63	23
	56715	3697.5	115.67	-95.26	109.901	20.41	23
256QAM	55265	3552.5	113.24	-95.26	62.806	17.98	23
	55990	3625	113.32	-95.26	63.973	18.06	23
	56715	3697.5	113.1	-95.26	60.814	17.84	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

LTE Band 48, Channel Bandwidth: 10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55290	3555	117.48	-95.26	166.725	22.22	23
	55990	3625	117.64	-95.26	172.982	22.38	23
	56690	3695	117.67	-95.26	174.181	22.41	23
16QAM	55290	3555	116.59	-95.26	135.831	21.33	23
	55990	3625	116.79	-95.26	142.233	21.53	23
	56690	3695	116.8	-95.26	142.561	21.54	23
64QAM	55290	3555	115.59	-95.26	107.895	20.33	23
	55990	3625	115.81	-95.26	113.501	20.55	23
	56690	3695	115.8	-95.26	113.24	20.54	23
256QAM	55290	3555	113.05	-95.26	60.117	17.79	23
	55990	3625	113.27	-95.26	63.241	18.01	23
	56690	3695	113.24	-95.26	62.806	17.98	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

LTE Band 48, Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55315	3557.5	117.71	-95.26	175.792	22.45	23
	55990	3625	117.73	-95.26	176.604	22.47	23
	56665	3692.5	117.63	-95.26	172.584	22.37	23
16QAM	55315	3557.5	116.85	-95.26	144.212	21.59	23
	55990	3625	116.87	-95.26	144.877	21.61	23
	56665	3692.5	116.79	-95.26	142.233	21.53	23
64QAM	55315	3557.5	115.83	-95.26	114.025	20.57	23
	55990	3625	115.86	-95.26	114.815	20.6	23
	56665	3692.5	115.79	-95.26	112.98	20.53	23
256QAM	55315	3557.5	113.26	-95.26	63.096	18	23
	55990	3625	113.32	-95.26	63.973	18.06	23
	56665	3692.5	113.22	-95.26	62.517	17.96	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

LTE Band 48, Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340	3560	117.43	-95.26	164.816	22.17	23
	55990	3625	117.88	-95.26	182.81	22.62	23
	56640	3690	117.78	-95.26	178.649	22.52	23
16QAM	55340	3560	116.58	-95.26	135.519	21.32	23
	55990	3625	116.89	-95.26	145.546	21.63	23
	56640	3690	116.95	-95.26	147.571	21.69	23
64QAM	55340	3560	115.57	-95.26	107.399	20.31	23
	55990	3625	115.91	-95.26	116.145	20.65	23
	56640	3690	115.95	-95.26	117.22	20.69	23
256QAM	55340	3560	113.04	-95.26	59.979	17.78	23
	55990	3625	113.36	-95.26	64.565	18.1	23
	56640	3690	113.39	-95.26	65.013	18.13	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

LTE Band 48, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55315	3557.5	117.65	-95.26	173.38	22.39	23
	55990	3625	117.37	-95.26	162.555	22.11	23
	56665	3692.5	117.49	-95.26	167.109	22.23	23
16QAM	55315	3557.5	116.77	-95.26	141.579	21.51	23
	55990	3625	116.52	-95.26	133.66	21.26	23
	56665	3692.5	116.66	-95.26	138.038	21.4	23
64QAM	55315	3557.5	115.76	-95.26	112.202	20.5	23
	55990	3625	115.52	-95.26	106.17	20.26	23
	56665	3692.5	115.64	-95.26	109.144	20.38	23
256QAM	55315	3557.5	113.23	-95.26	62.661	17.97	23
	55990	3625	112.96	-95.26	58.884	17.7	23
	56665	3692.5	113.07	-95.26	60.395	17.81	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

LTE Band 48, Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340	3560	117.38	-95.26	162.93	22.12	23
	55990	3625	117.75	-95.26	177.419	22.49	23
	56640	3690	117.58	-95.26	170.608	22.32	23
16QAM	55340	3560	116.53	-95.26	133.968	21.27	23
	55990	3625	116.8	-95.26	142.561	21.54	23
	56640	3690	116.7	-95.26	139.316	21.44	23
64QAM	55340	3560	115.51	-95.26	105.925	20.25	23
	55990	3625	115.79	-95.26	112.98	20.53	23
	56640	3690	115.7	-95.26	110.662	20.44	23
256QAM	55340	3560	112.98	-95.26	59.156	17.72	23
	55990	3625	113.24	-95.26	62.806	17.98	23
	56640	3690	113.13	-95.26	61.235	17.87	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

7.2 Modulation Characteristics

LTE Band 48

Please refer to certified modular device FCC ID: GKRRXLN4N
Grant Date:05/26/2026 test report.

7.3 Peak to Average Ratio

LTE Band 48

Please refer to certified modular device FCC ID: GKRRXLN4N
Grant Date:05/26/2026 test report.

7.4 Bandwidth

LTE Band 48

Please refer to certified modular device FCC ID: GKRRXLN4N
Grant Date:05/26/2026 test report.

7.5 Conducted Spurious Emissions

LTE Band 48

Please refer to certified modular device FCC ID: GKRRXLN4N
Grant Date:05/26/2026 test report.

7.6 Radiated Spurious Emissions below 1GHz

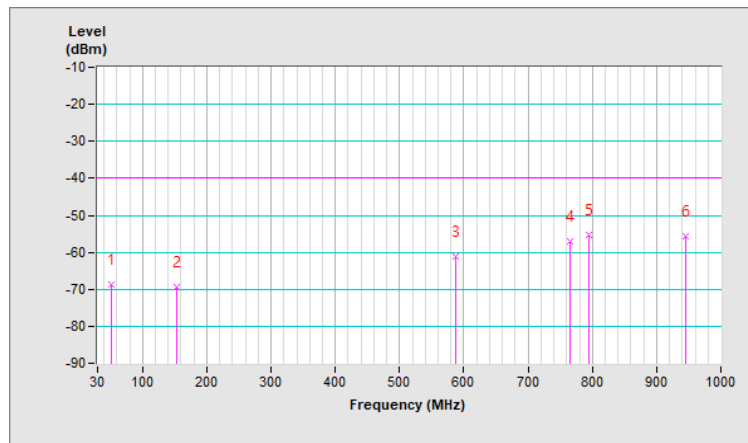
7.6.1 LTE Band 48

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	51.34	-68.76	-40.00	-28.76	1.25 H	99	39.64	-108.40
2	154.16	-69.56	-40.00	-29.56	1.25 H	198	38.61	-108.17
3	586.78	-61.26	-40.00	-21.26	1.00 H	4	39.62	-100.88
4	765.26	-57.07	-40.00	-17.07	1.50 H	176	40.76	-97.83
5	794.36	-55.47	-40.00	-15.47	1.00 H	299	42.05	-97.52
6	944.71	-55.51	-40.00	-15.51	1.00 H	19	39.71	-95.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

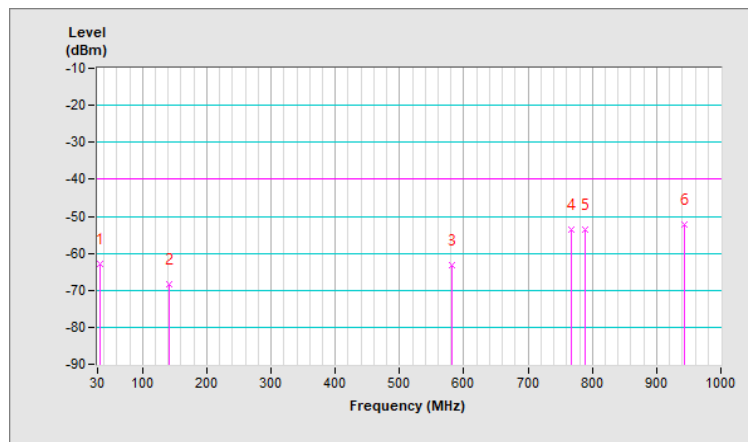


RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	34.85	-62.78	-40.00	-22.78	1.25 V	188	46.60	-109.38
2	141.55	-68.29	-40.00	-28.29	1.50 V	131	40.37	-108.66
3	580.96	-63.19	-40.00	-23.19	1.00 V	232	37.91	-101.10
4	767.20	-53.52	-40.00	-13.52	1.00 V	346	44.33	-97.85
5	789.51	-53.63	-40.00	-13.63	1.50 V	171	43.96	-97.59
6	943.74	-52.37	-40.00	-12.37	1.00 V	252	42.87	-95.24

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 LTE Band 48

RF Mode	LTE Band 48 Channel Bandwidth: 5MHz	Channel	CH 55265 : 3552.5 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7105.00	-43.41	-40.00	-3.41	2.30 H	79	42.22	-85.63
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	7105.00	-42.20	-40.00	-2.20	2.02 V	296	43.43	-85.63

Remarks:

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

RF Mode	LTE Band 48 Channel Bandwidth: 5MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7250.00	-43.24	-40.00	-3.24	2.32 H	80	42.14	-85.38
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	7250.00	-41.94	-40.00	-1.94	2.09 V	294	43.44	-85.38

Remarks:

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

RF Mode	LTE Band 48 Channel Bandwidth: 5MHz	Channel	CH 56715 : 3697.5 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7395.00	-43.19	-40.00	-3.19	2.33 H	77	42.11	-85.30
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	7395.00	-41.95	-40.00	-1.95	2.04 V	294	43.35	-85.30

Remarks:

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

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55340 : 3560 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7120.00	-43.65	-40.00	-3.65	2.30 H	74	41.93	-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	7120.00	-42.35	-40.00	-2.35	2.03 V	292	43.23	-85.58

Remarks:

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

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7250.00	-43.12	-40.00	-3.12	2.35 H	79	42.26	-85.38
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	7250.00	-41.91	-40.00	-1.91	2.08 V	297	43.47	-85.38

Remarks:

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

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 56640 : 3690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68% RH
Tested By	Greg Lin		

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	7380.00	-43.39	-40.00	-3.39	2.30 H	74	41.95	-85.34
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	7380.00	-41.95	-40.00	-1.95	2.05 V	297	43.39	-85.34

Remarks:

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

7.8 Frequency Stability

Environmental Conditions:	26°C, 59% RH	Tested By:	Noah Chang
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7.8.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage					
Voltage (Vdc)	CH 55340 (3560 MHz)		CH 56640 (3690 MHz)		Test Result
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.4	3560.000003	0.0008	3690.000004	0.0011	Pass
3.85	3559.999991	-0.0025	3689.999991	-0.0025	Pass
4.4	3560.000008	0.0022	3690.000003	0.0008	Pass

Note: The applicant defined the normal working voltage is from 3.4 to 4.4 Vdc.

Frequency Stability Versus Temperature					
Temperature (°C)	CH 55340 (3560 MHz)		CH 56640 (3690 MHz)		Test Result
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	3559.999993	-0.002	3689.999992	-0.0022	Pass
-20	3559.999999	-0.0003	3690.000001	0.0003	Pass
-10	3559.999993	-0.002	3689.99999	-0.0028	Pass
0	3559.999997	-0.0008	3689.999997	-0.0008	Pass
10	3559.999999	-0.0003	3689.999994	-0.0017	Pass
20	3559.999996	-0.0011	3689.999998	-0.0006	Pass
30	3559.999991	-0.0025	3689.99999	-0.0028	Pass
40	3559.999996	-0.0011	3689.999992	-0.0022	Pass
50	3560.000005	0.0014	3690.000009	0.0025	Pass

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.

If you have any comments, please feel free to contact us at the following:

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Web Site: <http://ee.bureauveritas.com.tw>

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

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