

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2
Report No.: RFBCMA-WTW-P26010290-1
FCC ID: UXX-FE990B40NA
Product: 5G NR Module
Brand: Ericsson
Model No.: FE990B40-NAD
Received Date: 2026/1/6
Test Date: 2026/1/6 ~ 2026/3/23
Issued Date: 2026/4/16

Applicant: Ericsson Enterprise Wireless Solutions, Inc.

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

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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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

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

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2026/4/16

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P26010290-1	Original release.	2026/4/16

1 Certificate

Product: 5G NR Module

Brand: Ericsson

Test Model: FE990B40-NAD

Sample Status: Engineering sample

Applicant: Ericsson Enterprise Wireless Solutions, Inc.

Test Date: 2026/1/6 ~ 2026/3/23

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	N/A	Refer to Note
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	N/A	Refer to Note
Part 2.1049	Bandwidth	N/A	Refer to Note
Part 2.1051 Part 96.41(e)	Conducted Spurious Emissions	N/A	Refer to Note
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -6.24 dB at 201.22 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -11.23 dB at 7250.00 MHz
Part 2.1055	Frequency Stability	N/A	Refer to Note

Note:

- Only test item of Maximum EIRP and radiated spurious emissions was performed for this report. Other testing data please refer to Sporton report no.: FG492402C_R01 for module (Brand: Telit, Model: FE990B40-NAD).
- 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	-	1.371 dB
Radiated Spurious Emissions below 1GHz	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

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	Ericsson
Test Model	FE990B40-NAD
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from adapter 56Vdc from PoE
EUT Category	End User Device
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
LTE support SISO bands	B48
PC3 for Power Class	LTE: B48
Band Covered Information	LTE Band 48 cover LTE Band 42 and 43 (Part 96)

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with original report is addition of antennas and a host. Therefore, test items for Maximum EIRP and Radiated Spurious Emissions test had been re-tested in this report.
2. The EUT is integrated into the following host: W2255 5G Wideband Cellular Adapter model S5A615A
3. All types of host are listed as below.

Model	Type	Material
S5A615A	indoor	Plastic bracket
	outdoor	Metal bracket

4. EUT Overview

LTE Band 48

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
5 MHz	3552.5 ~ 3697.5	QPSK	0.179	22.52
		16QAM	0.173	22.39
		64QAM	0.135	21.29
		256QAM	0.073	18.64
10 MHz	3555 ~ 3695	QPSK	0.176	22.46
		16QAM	0.175	22.43
		64QAM	0.133	21.25
		256QAM	0.073	18.61
15 MHz	3557.5 ~ 3692.5	QPSK	0.177	22.49
		16QAM	0.174	22.40
		64QAM	0.134	21.28
		256QAM	0.072	18.59
20 MHz	3560 ~ 3690	QPSK	0.179	22.53
		16QAM	0.175	22.44
		64QAM	0.136	21.33
		256QAM	0.073	18.64

5. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter	Asian Power Devices Inc.	WB-24M12R	AC Input: 100-240V~50-60Hz 0.7A Max DC Output: 12.0V=2.0A 24.0W DC Output Cable: 1.5m, non-shielded
POE	Phihong	POE29U-1AT(PL)	AC Input: 100-240V~0.8A 50-60Hz DC Output: 56V=0.536A, 30W
Power Cable	-	-	Signal Line: 1m

6. LTE Band 48 overlaps the entire frequency range of LTE Band 42 (3550 ~ 3600 MHz), support Bandwidth 5M/10M/15M/20M and LTE Band 43 (3600 ~ 3700 MHz), support Bandwidth 5M/10M/15M/20M. Therefore, test data provided in this report covers LTE Band 48 as well as LTE Band 42 and LTE Band 43
7. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
8. 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.

Antenna	Antenna Type	Brand	Mdoel	Connector Type
Internal-1	Monopole	SPEED	F-0Q-CT-6006-001-00	ipex(MHF)
Internal-2	Monopole	SPEED	F-0Q-CT-6006-002-00	ipex(MHF)
Internal-3	Monopole	SPEED	F-0Q-CT-6006-003-00	ipex(MHF)
Internal-4	Monopole	SPEED	F-0Q-CT-6006-004-00	ipex(MHF)
External	Dipole	Maxtena	MEA-4IN1-5G-SM	SMA

Band	Frequency Range (MHz)	Gain (dBi)				
		Monopole Antenna				Dipole Antenna
		Internal-1	Internal-2	Internal-3	Internal-4	
B2	1850-1910	4.60	4.54	4.36	4.11	5
B4	1710-1755	4.01	4.83	3.66	3.64	5
B5	824-849	1.71	1.04	2.41	1.77	5
B7	2500-2570	3.08	3.35	5.00	4.27	5
B12	699-716	1.59	1.52	1.53	-0.18	5
B13	777-787	2.18	1.56	2.12	1.51	5
B14	788-798	2.10	1.40	2.68	1.46	5
B17	704-716	1.59	1.52	1.53	-0.27	5
B25	1850-1915	4.60	4.54	4.43	4.13	5
B26	814-849	1.97	1.04	2.60	1.77	5
B30	2305-2315	2.61	3.69	4.90	3.72	5
B38	2570-2620	3.14	2.89	4.91	4.12	5
B41	2496-2690	3.81	3.35	5.00	4.27	5
B42	3450-3600	3.45	4.41	5.94	4.73	5
B43	3600-3800	3.53	3.72	5.31	3.33	5
B48	3550-3700	3.29	4.00	5.68	4.35	5
B66	1710-1780	4.01	4.83	3.74	3.64	5
B71	663-698	1.65	1.38	2.85	0.22	5

* Internal Antenna: Main antenna (worst case): Internal-1 for LTE Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30,38,41, 66, 71
Internal-3 for LTE Band 42, 43, 48

*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 support multiple power sources: AC Adapter / POE Adapter. Pre-scan these sources and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis. 2. Tthe test item the worst condition of power sources: POE

Following channel(s) was (were) selected for the final test as listed below:

3.3.1 LTE Band 48

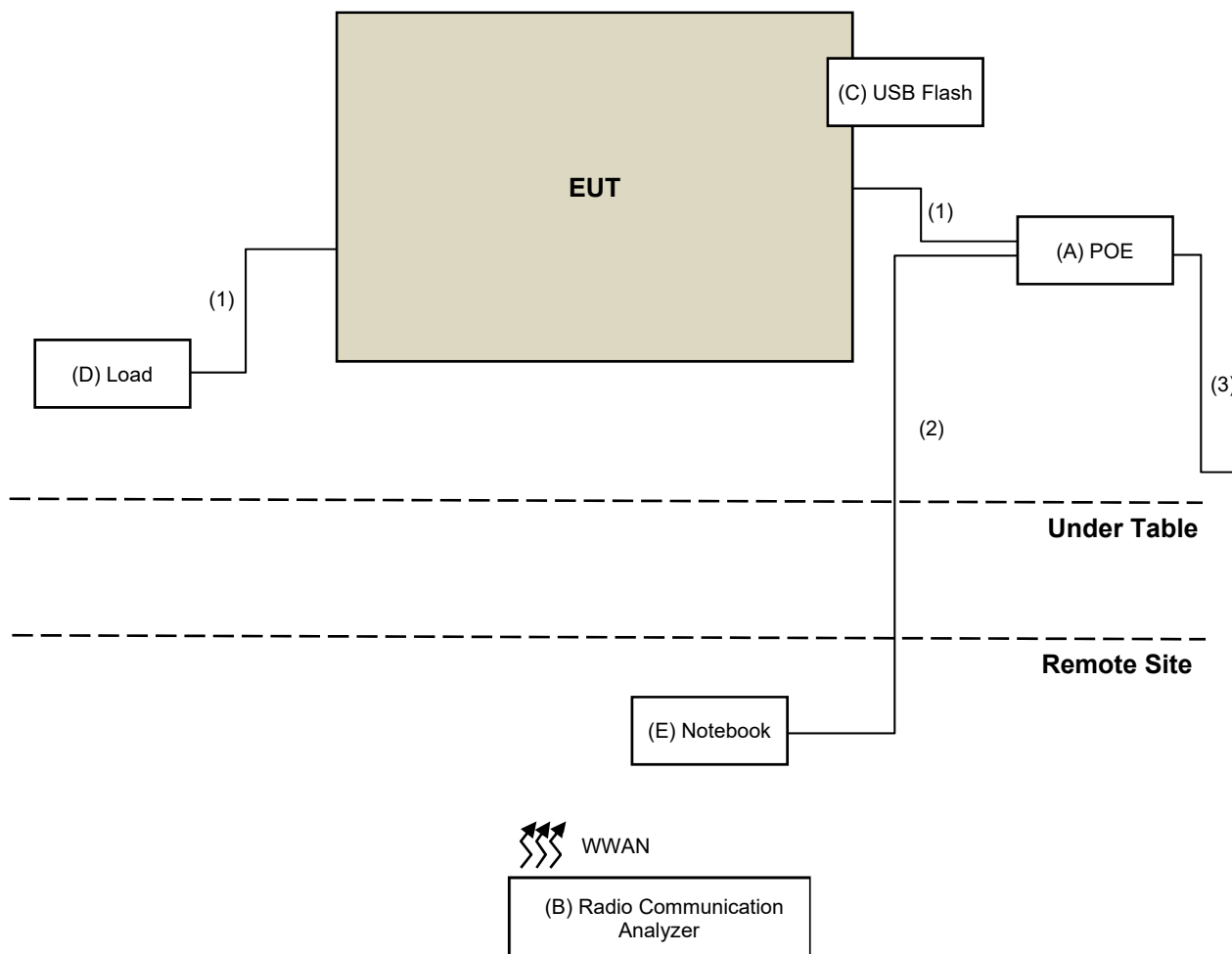
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	A, B	55265(3552.50 MHz) 55990(3625.00 MHz) 56715(3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		55290(3555.00 MHz) 55990(3625.00 MHz) 56690(3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	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	A, B	55990(3625.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	A, B	55990(3625.00 MHz)	20 MHz	QPSK	1 RB
EUT Configure Mode:	A	Internal Ant with Plastic bracket			
	B	External Ant with Metal bracket			

3.4 Test Program Used and Operation Descriptions

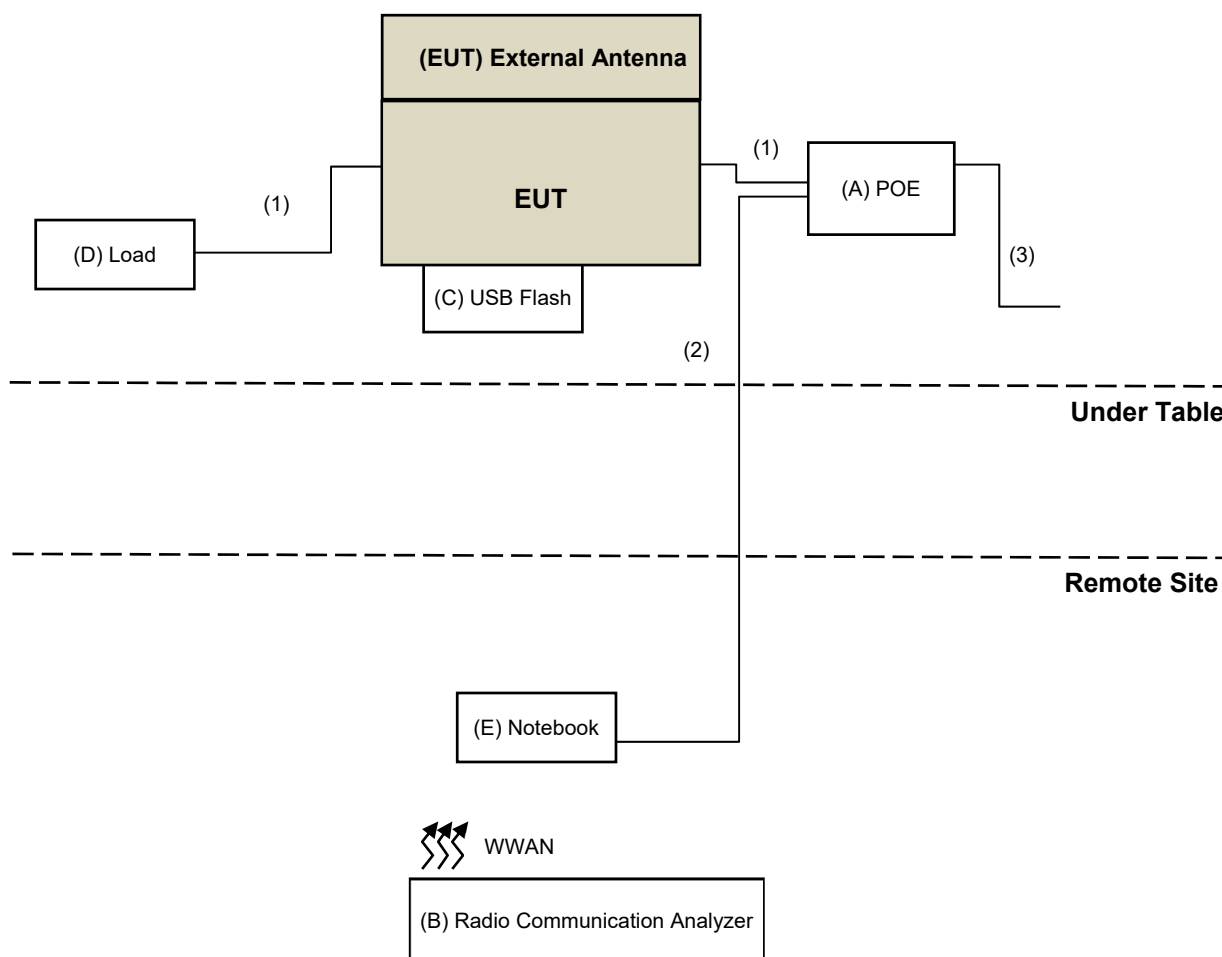
Set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices

Internal Ant



External Ant



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	POE	Phihong	POE29U-1AT(PL)	N/A	N/A	Accessory of EUT
B	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
C	USB Flash	SanDisk	SDDDC3	BM220358356W	N/A	Provided by Lab
D	Load	N/A	N/A	N/A	N/A	Provided by Lab
E	Notebook	Lenovo	L470	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	2	1	No	0	Provided by Lab
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	AC Cable	1	1	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
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

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/3/23

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2025/9/18	2026/9/17
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980782	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201235	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201236(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSW43	101867	2026/2/11	2027/2/10
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/2/23 ~ 2026/2/24

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	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	2025/1/15	2026/1/14
Preamplifier EMCI	EMC118A45SE	980808	2025/12/24	2026/12/23
	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
		201255	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210102	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201231	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201243	2025/1/14	2026/1/13
Signal & Spectrum Analyzer R&S	FSW43	101867	2025/2/18	2026/2/17
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/1/6

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:

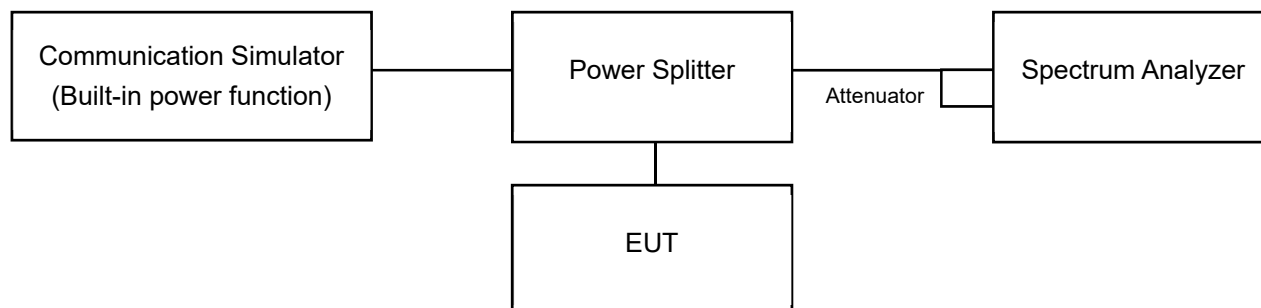
The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements. Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer. Power measurements use detector average (rms).

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- Set span to 2 × to 3 × the OBW.
- Set RBW = 1% to 5% of the OBW.
- Set VBW ≥ 3 × RBW.
- Set number of measurement points in sweep ≥ 2 × span / RBW.
- Set Sweep time = auto-couple.
- Detector = power averaging (rms).
- Set sweep trigger to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode.
- 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.
- 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.
- If Duty cycle < 98%, Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

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:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

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

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)

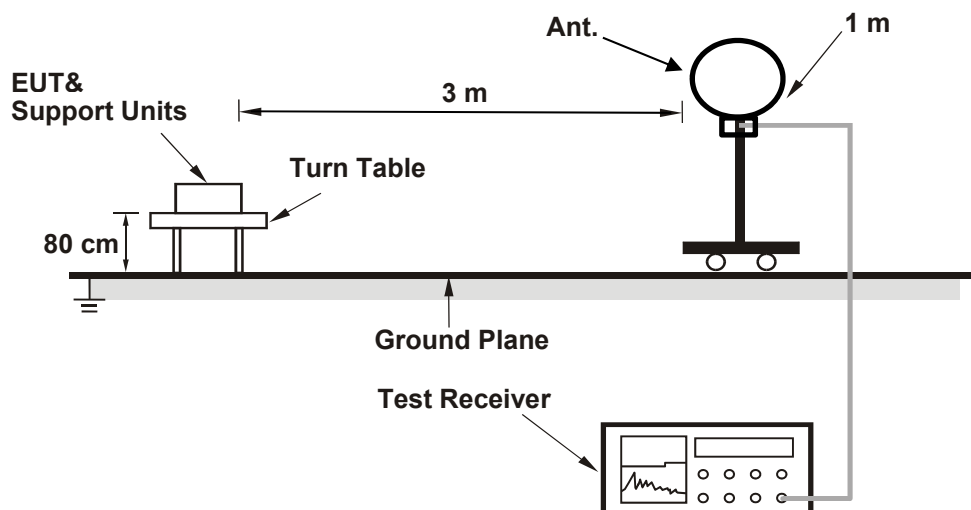
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

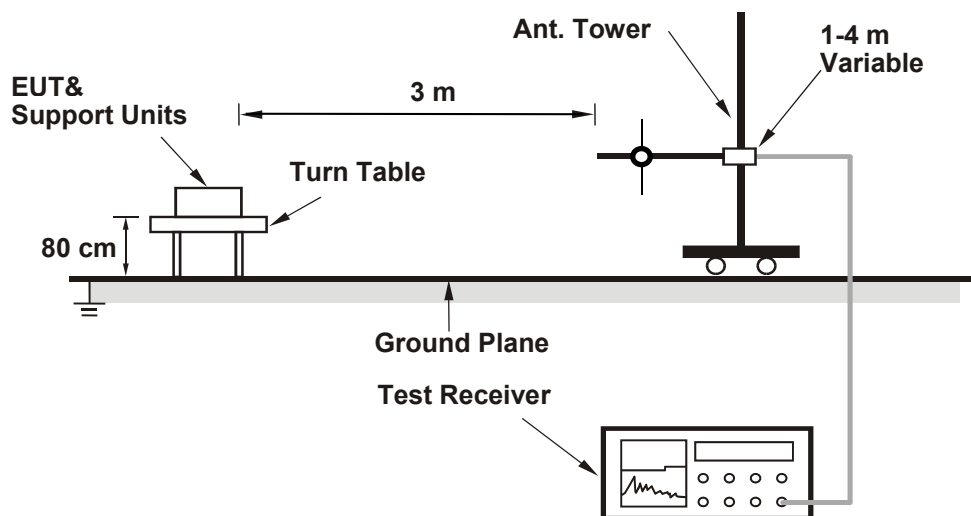
6.2 Radiated Spurious Emissions below 1GHz

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. $EIRP\ (dBm) = E\ (dB\mu V/m) + 20\log(D) - 104.8$; 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.

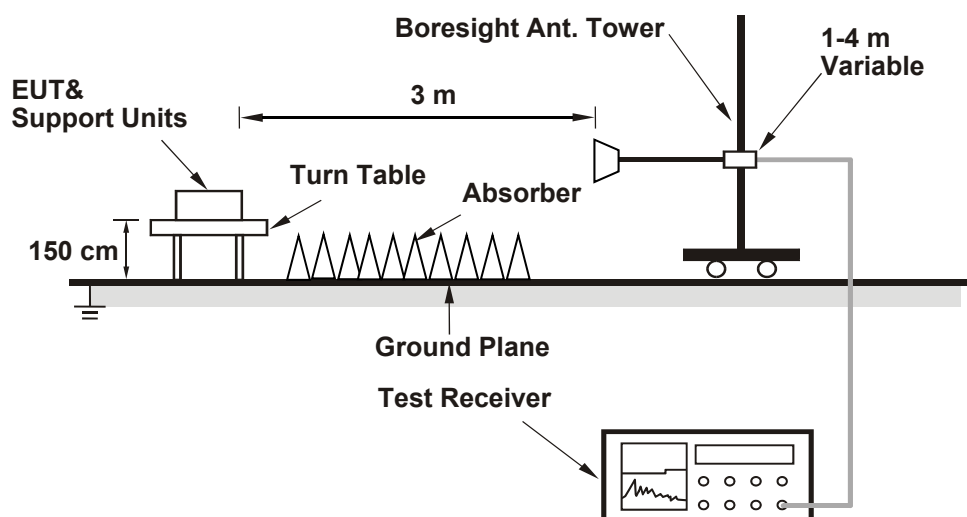
Note:

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

Note: 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:	23°C, 74% RH	Tested By:	Willy Cheng
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Mode A: Internal Ant

7.1.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55265	CH 55990	CH 56715
			3552.5 MHz	3625 MHz	3697.5 MHz
QPSK	1	0	16.84	16.40	16.33
	1	12	16.68	16.57	16.54
	1	24	16.69	16.69	16.54
	12	0	16.75	16.71	16.59
	12	6	16.73	16.69	16.61
	12	13	16.67	16.64	16.68
	25	0	16.65	16.60	16.60
16QAM	1	0	16.51	16.43	16.43
	1	12	16.71	16.70	16.60
	1	24	16.56	16.55	16.51
	12	0	16.68	16.61	16.65
	12	6	16.57	16.48	16.35
	12	13	16.61	16.52	16.57
	25	0	15.51	15.51	15.40
64QAM	1	0	15.37	15.18	15.16
	1	12	15.61	15.57	15.49
	1	24	15.45	15.50	15.47
	12	0	14.46	14.37	14.30
	12	6	14.45	14.39	14.31
	12	13	14.03	13.90	13.88
	25	0	14.40	14.28	14.22
256QAM	1	0	12.76	12.62	12.59
	1	12	12.68	12.58	12.63
	1	24	12.96	12.85	12.82
	12	0	12.43	12.40	12.32
	12	6	12.44	12.40	12.28
	12	13	12.14	12.11	12.08
	25	0	12.47	12.40	12.37

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.33	16.84	22.01	22.52	23.00
16QAM	15.40	16.71	21.08	22.39	23.00
64QAM	13.88	15.61	19.56	21.29	23.00
256QAM	12.08	12.96	17.76	18.64	23.00

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

LTE Band 48, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55290	CH 55990	CH 56690
			3555 MHz	3625 MHz	3695 MHz
QPSK	1	0	16.77	16.46	16.39
	1	24	16.69	16.62	16.56
	1	49	16.65	16.68	16.63
	25	0	16.78	16.71	16.64
	25	12	16.67	16.70	16.52
	25	25	16.63	16.70	16.69
	50	0	16.67	16.61	16.63
16QAM	1	0	16.45	16.42	16.38
	1	24	16.71	16.62	16.62
	1	49	16.51	16.50	16.57
	25	0	16.75	16.59	16.60
	25	12	16.47	16.49	16.38
	25	25	16.66	16.57	16.49
	50	0	15.56	15.48	15.43
64QAM	1	0	15.34	15.18	15.18
	1	24	15.56	15.51	15.57
	1	49	15.49	15.41	15.44
	25	0	14.46	14.41	14.33
	25	12	14.41	14.38	14.34
	25	25	14.02	13.94	13.88
	50	0	14.31	14.25	14.19
256QAM	1	0	12.75	12.61	12.58
	1	24	12.67	12.61	12.54
	1	49	12.93	12.82	12.80
	25	0	12.40	12.31	12.27
	25	12	12.48	12.33	12.26
	25	25	12.13	12.12	12.03
	50	0	12.52	12.41	12.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.39	16.78	22.07	22.46	23.00
16QAM	15.43	16.75	21.11	22.43	23.00
64QAM	13.88	15.57	19.56	21.25	23.00
256QAM	12.03	12.93	17.71	18.61	23.00

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

LTE Band 48, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55315	CH 55990	CH 56665
			3557.5 MHz	3625 MHz	3692.5 MHz
QPSK	1	0	16.81	16.45	16.30
	1	37	16.70	16.53	16.55
	1	74	16.68	16.66	16.59
	36	0	16.73	16.67	16.56
	36	19	16.67	16.65	16.55
	36	39	16.65	16.66	16.65
	75	0	16.63	16.63	16.66
16QAM	1	0	16.45	16.45	16.43
	1	37	16.70	16.65	16.60
	1	74	16.50	16.58	16.56
	36	0	16.72	16.62	16.58
	36	19	16.56	16.50	16.45
	36	39	16.61	16.59	16.48
	75	0	15.56	15.53	15.46
64QAM	1	0	15.27	15.24	15.18
	1	37	15.60	15.54	15.49
	1	74	15.51	15.51	15.41
	36	0	14.40	14.31	14.32
	36	19	14.35	14.40	14.33
	36	39	13.99	13.99	13.83
	75	0	14.39	14.35	14.24
256QAM	1	0	12.68	12.60	12.51
	1	37	12.67	12.55	12.61
	1	74	12.91	12.77	12.84
	36	0	12.50	12.30	12.32
	36	19	12.44	12.41	12.29
	36	39	12.13	12.07	12.09
	75	0	12.43	12.45	12.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.30	16.81	21.98	22.49	23.00
16QAM	15.46	16.72	21.14	22.40	23.00
64QAM	13.83	15.60	19.51	21.28	23.00
256QAM	12.07	12.91	17.75	18.59	23.00

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

LTE Band 48, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55340	CH 55990	CH 56640
			3560 MHz	3625 MHz	3690 MHz
QPSK	1	0	16.85	16.48	16.40
	1	50	16.70	16.63	16.61
	1	99	16.75	16.69	16.64
	50	0	16.81	16.75	16.65
	50	25	16.75	16.71	16.61
	50	50	16.71	16.70	16.69
	100	0	16.72	16.70	16.68
16QAM	1	0	16.53	16.46	16.43
	1	50	16.71	16.71	16.67
	1	99	16.60	16.60	16.59
	50	0	16.76	16.69	16.65
	50	25	16.57	16.53	16.45
	50	50	16.69	16.59	16.58
	100	0	15.57	15.57	15.50
64QAM	1	0	15.37	15.28	15.25
	1	50	15.65	15.59	15.58
	1	99	15.54	15.51	15.49
	50	0	14.48	14.41	14.37
	50	25	14.45	14.44	14.34
	50	50	14.06	14.00	13.90
	100	0	14.41	14.35	14.27
256QAM	1	0	12.78	12.70	12.61
	1	50	12.73	12.65	12.64
	1	99	12.96	12.86	12.86
	50	0	12.50	12.40	12.36
	50	25	12.50	12.42	12.32
	50	50	12.21	12.13	12.09
	100	0	12.53	12.49	12.44

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.40	16.85	22.08	22.53	23.00
16QAM	15.50	16.76	21.18	22.44	23.00
64QAM	13.90	15.65	19.58	21.33	23.00
256QAM	12.09	12.96	17.77	18.64	23.00

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

Mode B: External Ant

7.1.2 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55265	CH 55990	CH 56715
			3552.5 MHz	3625 MHz	3697.5 MHz
QPSK	1	0	16.84	16.40	16.33
	1	12	16.68	16.57	16.54
	1	24	16.69	16.69	16.54
	12	0	16.75	16.71	16.59
	12	6	16.73	16.69	16.61
	12	13	16.67	16.64	16.68
	25	0	16.65	16.60	16.60
16QAM	1	0	16.51	16.43	16.43
	1	12	16.71	16.70	16.60
	1	24	16.56	16.55	16.51
	12	0	16.68	16.61	16.65
	12	6	16.57	16.48	16.35
	12	13	16.61	16.52	16.57
	25	0	15.51	15.51	15.40
64QAM	1	0	15.37	15.18	15.16
	1	12	15.61	15.57	15.49
	1	24	15.45	15.50	15.47
	12	0	14.46	14.37	14.30
	12	6	14.45	14.39	14.31
	12	13	14.03	13.90	13.88
	25	0	14.40	14.28	14.22
256QAM	1	0	12.76	12.62	12.59
	1	12	12.68	12.58	12.63
	1	24	12.96	12.85	12.82
	12	0	12.43	12.40	12.32
	12	6	12.44	12.40	12.28
	12	13	12.14	12.11	12.08
	25	0	12.47	12.40	12.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.33	16.84	21.33	21.84	23.00
16QAM	15.40	16.71	20.40	21.71	23.00
64QAM	13.88	15.61	18.88	20.61	23.00
256QAM	12.08	12.96	17.08	17.96	23.00

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

LTE Band 48, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55290	CH 55990	CH 56690
			3555 MHz	3625 MHz	3695 MHz
QPSK	1	0	16.77	16.46	16.39
	1	24	16.69	16.62	16.56
	1	49	16.65	16.68	16.63
	25	0	16.78	16.71	16.64
	25	12	16.67	16.70	16.52
	25	25	16.63	16.70	16.69
	50	0	16.67	16.61	16.63
16QAM	1	0	16.45	16.42	16.38
	1	24	16.71	16.62	16.62
	1	49	16.51	16.50	16.57
	25	0	16.75	16.59	16.60
	25	12	16.47	16.49	16.38
	25	25	16.66	16.57	16.49
	50	0	15.56	15.48	15.43
64QAM	1	0	15.34	15.18	15.18
	1	24	15.56	15.51	15.57
	1	49	15.49	15.41	15.44
	25	0	14.46	14.41	14.33
	25	12	14.41	14.38	14.34
	25	25	14.02	13.94	13.88
	50	0	14.31	14.25	14.19
256QAM	1	0	12.75	12.61	12.58
	1	24	12.67	12.61	12.54
	1	49	12.93	12.82	12.80
	25	0	12.40	12.31	12.27
	25	12	12.48	12.33	12.26
	25	25	12.13	12.12	12.03
	50	0	12.52	12.41	12.37

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.39	16.78	21.39	21.78	23.00
16QAM	15.43	16.75	20.43	21.75	23.00
64QAM	13.88	15.57	18.88	20.57	23.00
256QAM	12.03	12.93	17.03	17.93	23.00

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

LTE Band 48, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55315	CH 55990	CH 56665
			3557.5 MHz	3625 MHz	3692.5 MHz
QPSK	1	0	16.81	16.45	16.30
	1	37	16.70	16.53	16.55
	1	74	16.68	16.66	16.59
	36	0	16.73	16.67	16.56
	36	19	16.67	16.65	16.55
	36	39	16.65	16.66	16.65
	75	0	16.63	16.63	16.66
16QAM	1	0	16.45	16.45	16.43
	1	37	16.70	16.65	16.60
	1	74	16.50	16.58	16.56
	36	0	16.72	16.62	16.58
	36	19	16.56	16.50	16.45
	36	39	16.61	16.59	16.48
	75	0	15.56	15.53	15.46
64QAM	1	0	15.27	15.24	15.18
	1	37	15.60	15.54	15.49
	1	74	15.51	15.51	15.41
	36	0	14.40	14.31	14.32
	36	19	14.35	14.40	14.33
	36	39	13.99	13.99	13.83
	75	0	14.39	14.35	14.24
256QAM	1	0	12.68	12.60	12.51
	1	37	12.67	12.55	12.61
	1	74	12.91	12.77	12.84
	36	0	12.50	12.30	12.32
	36	19	12.44	12.41	12.29
	36	39	12.13	12.07	12.09
	75	0	12.43	12.45	12.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.30	16.81	21.30	21.81	23.00
16QAM	15.46	16.72	20.46	21.72	23.00
64QAM	13.83	15.60	18.83	20.60	23.00
256QAM	12.07	12.91	17.07	17.91	23.00

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

LTE Band 48, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 55340	CH 55990	CH 56640
			3560 MHz	3625 MHz	3690 MHz
QPSK	1	0	16.85	16.48	16.40
	1	50	16.70	16.63	16.61
	1	99	16.75	16.69	16.64
	50	0	16.81	16.75	16.65
	50	25	16.75	16.71	16.61
	50	50	16.71	16.70	16.69
	100	0	16.72	16.70	16.68
16QAM	1	0	16.53	16.46	16.43
	1	50	16.71	16.71	16.67
	1	99	16.60	16.60	16.59
	50	0	16.76	16.69	16.65
	50	25	16.57	16.53	16.45
	50	50	16.69	16.59	16.58
	100	0	15.57	15.57	15.50
64QAM	1	0	15.37	15.28	15.25
	1	50	15.65	15.59	15.58
	1	99	15.54	15.51	15.49
	50	0	14.48	14.41	14.37
	50	25	14.45	14.44	14.34
	50	50	14.06	14.00	13.90
	100	0	14.41	14.35	14.27
256QAM	1	0	12.78	12.70	12.61
	1	50	12.73	12.65	12.64
	1	99	12.96	12.86	12.86
	50	0	12.50	12.40	12.36
	50	25	12.50	12.42	12.32
	50	50	12.21	12.13	12.09
	100	0	12.53	12.49	12.44

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	16.40	16.85	21.40	21.85	23.00
16QAM	15.50	16.76	20.50	21.76	23.00
64QAM	13.90	15.65	18.90	20.65	23.00
256QAM	12.09	12.96	17.09	17.96	23.00

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

7.2 Radiated Spurious Emissions below 1GHz

Mode A

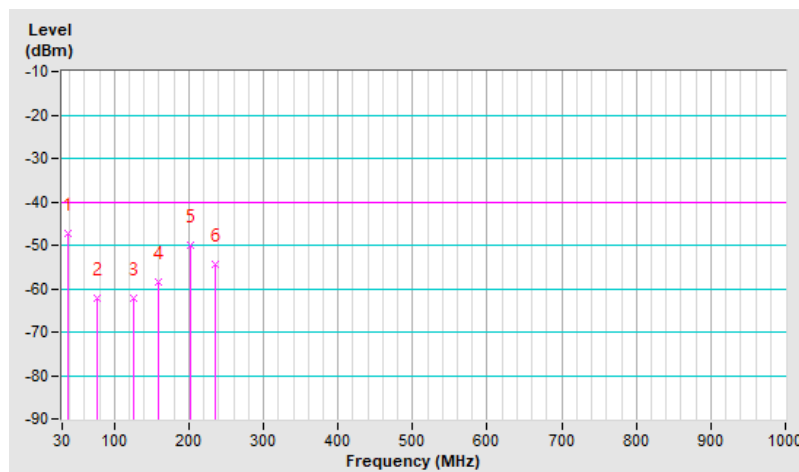
7.2.1 LTE Band 48

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	23 °C, 67% RH
Tested By	Tony Wu		

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	38.37	-47.33	-40.00	-7.33	1.00 H	38	61.32	-108.65
2	77.34	-62.06	-40.00	-22.06	1.00 H	124	50.38	-112.44
3	125.00	-62.29	-40.00	-22.29	1.00 H	237	47.37	-109.66
4	159.00	-58.33	-40.00	-18.33	1.50 H	44	49.31	-107.64
5	203.00	-50.08	-40.00	-10.08	2.00 H	158	61.32	-111.40
6	235.00	-54.33	-40.00	-14.33	2.00 H	203	55.34	-109.67

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.

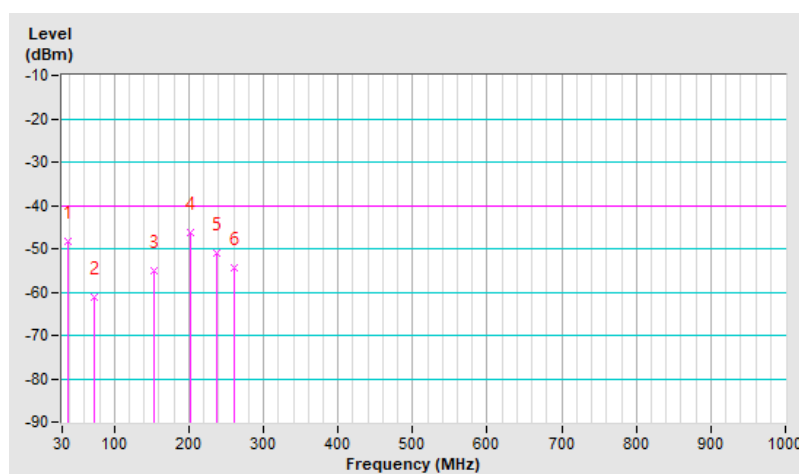


RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

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	38.12	-48.31	-40.00	-8.31	1.00 V	32	60.31	-108.62
2	73.14	-61.11	-40.00	-21.11	1.00 V	125	50.34	-111.45
3	154.16	-55.14	-40.00	-15.14	1.00 V	253	52.39	-107.53
4	201.22	-46.24	-40.00	-6.24	1.50 V	34	65.13	-111.37
5	237.64	-51.18	-40.00	-11.18	1.50 V	127	58.31	-109.49
6	259.94	-54.35	-40.00	-14.35	2.00 V	214	54.34	-108.69

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.



Mode B

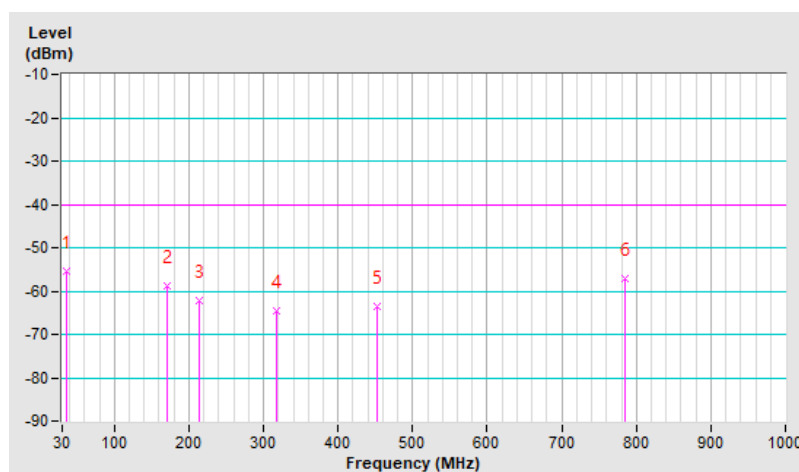
7.2.2 LTE Band 48

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	23 °C, 67% RH
Tested By	Tony Wu		

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	36.79	-55.27	-40.00	-15.27	1.00 H	129	53.59	-108.86
2	170.65	-58.76	-40.00	-18.76	1.50 H	214	49.34	-108.10
3	214.30	-62.36	-40.00	-22.36	1.00 H	121	49.02	-111.38
4	318.09	-64.44	-40.00	-24.44	1.50 H	144	42.02	-106.46
5	451.95	-63.44	-40.00	-23.44	1.00 H	121	39.29	-102.73
6	784.66	-56.95	-40.00	-16.95	1.50 H	315	39.03	-95.98

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.

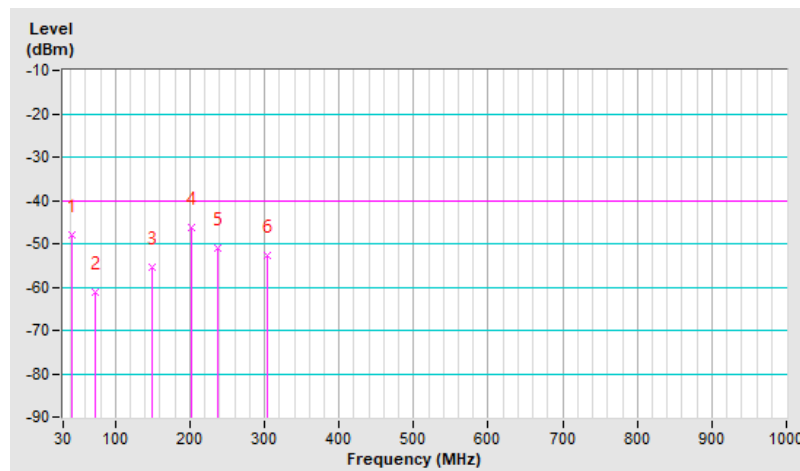


RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

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	42.00	-47.99	-40.00	-7.99	1.00 V	32	60.31	-108.30
2	73.14	-61.11	-40.00	-21.11	1.00 V	125	50.34	-111.45
3	149.00	-55.30	-40.00	-15.30	1.00 V	253	52.39	-107.69
4	201.22	-46.24	-40.00	-6.24	1.50 V	34	65.13	-111.37
5	237.64	-51.18	-40.00	-11.18	1.50 V	127	58.31	-109.49
6	304.00	-52.63	-40.00	-12.63	2.00 V	214	54.34	-106.97

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.



7.3 Radiated Spurious Emissions above 1GHz

Mode A

7.3.1 LTE Band 48

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	23 °C, 67% RH
Tested By	Karl Lee		

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	-51.23	-40.00	-11.23	2.26 H	0	36.61	-87.84
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	-53.64	-40.00	-13.64	1.79 V	156	34.20	-87.84

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.

Mode B

7.3.2 LTE Band 48

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	23 °C, 67% RH
Tested By	Karl Lee		

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	-52.34	-40.00	-12.34	1.55 H	231	35.50	-87.84
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	-51.42	-40.00	-11.42	3.62 V	171	36.42	-87.84

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.

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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