

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFCDVB-WTW-P22080669G-3

FCC ID: QYLFN990K12

Product: 5G NR Module

Brand: Getac

Model No.: FN990A28

Received Date: 2025/11/14

Test Date: 2025/12/3 ~ 2026/1/8

Issued Date: 2026/1/12

Applicant: Getac Technology Corporation.

Address: 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 115018, Taiwan, R.O.C.

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

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

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Prepared by : Polly Chien / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P22080669G-3	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: 2025/12/3 ~ 2026/1/8

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

Measurement ANSI/TIA/EIA-603-E 2016

procedure: 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 -3.53 dB at 118.27 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -0.72 dB at 7389.96 MHz
Part 2.1055	Frequency Stability	N/A	Refer to Note

Note:

- 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.
- 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	End User Device
Modulation Type	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM
5G NR support SISO bands	n48

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	$\pi/2$ BPSK	0.041	16.12
		QPSK	0.041	16.12
		16QAM	0.026	14.17
		64QAM	0.022	13.47
		256QAM	0.014	11.48
15 MHz	3557.52 ~ 3692.49	$\pi/2$ BPSK	0.041	16.09
		QPSK	0.041	16.13
		16QAM	0.026	14.12
		64QAM	0.023	13.53
		256QAM	0.014	11.44
20 MHz	3560.01 ~ 3690	$\pi/2$ BPSK	0.04	16.04
		QPSK	0.041	16.11
		16QAM	0.026	14.07
		64QAM	0.022	13.45
		256QAM	0.014	11.42
30 MHz	3565.02 ~ 3684.99	$\pi/2$ BPSK	0.041	16.08
		QPSK	0.041	16.1
		16QAM	0.026	14.14
		64QAM	0.023	13.55
		256QAM	0.014	11.48
40 MHz	3570 ~ 3679.98	$\pi/2$ BPSK	0.042	16.19
		QPSK	0.042	16.22
		16QAM	0.027	14.28
		64QAM	0.023	13.65
		256QAM	0.015	11.63

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.

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)
n48	1TX (Ant. 0)	3550 ~ 3700	-5.61	-7.14
n77	1TX (Ant. 0)	3300 ~ 4200	-5.41	-6.65
n78	1TX (Ant. 0)	3300 ~ 3980	-5.43	-6.65

*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. Adapter Worst Condition: Adapter 1 3. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis (Tablet Mode)

3.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

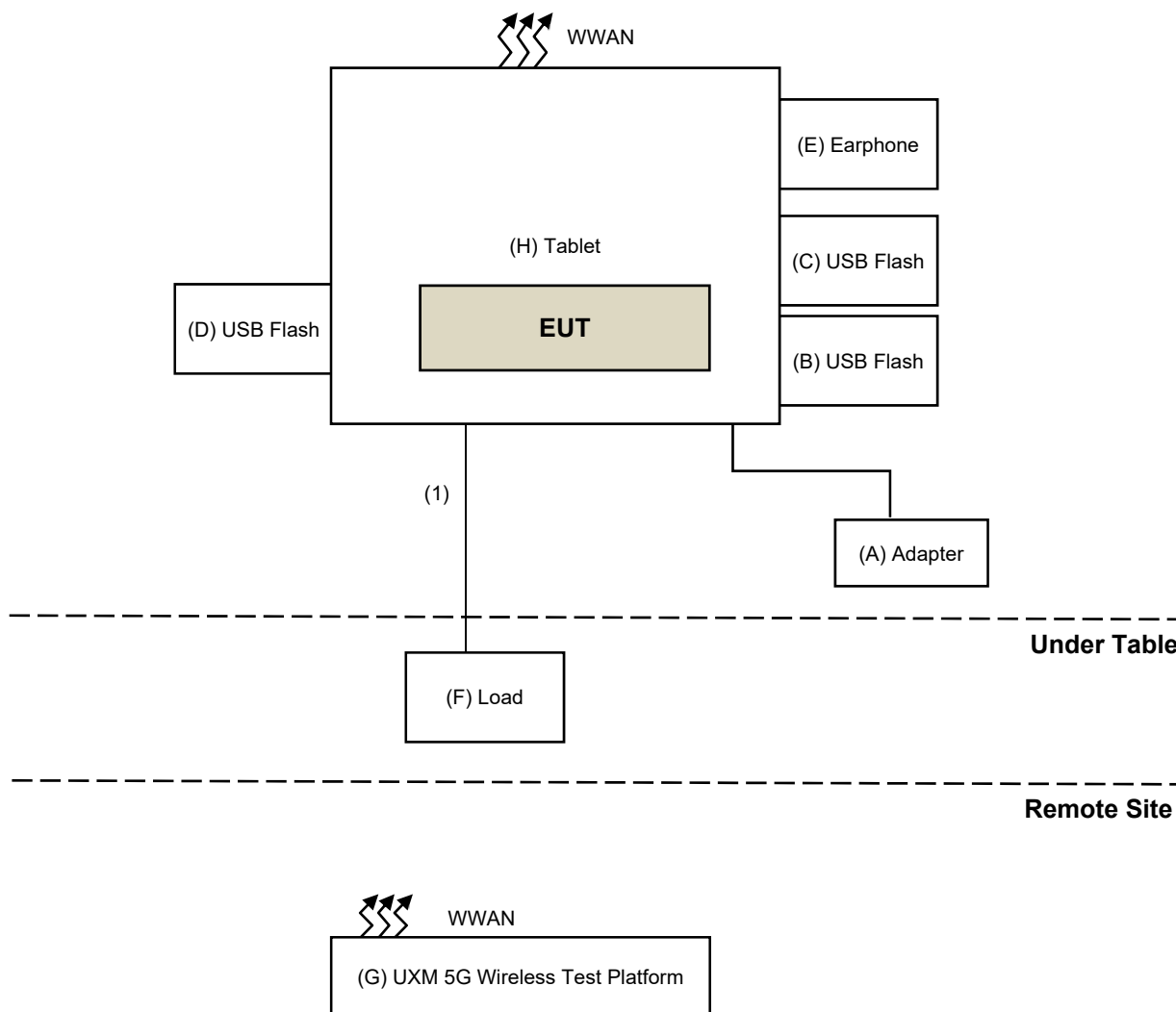
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	A	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	A, B	641666(3624.99 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	A	637000(3555.00 MHz) 641666(3624.99 MHz) 646332(3694.98 MHz)	10 MHz	QPSK	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 RB
EUT Configure Mode:	A	Tablet Mode			
	B	NB Mode			

3.4 Test Program Used and Operation Descriptions

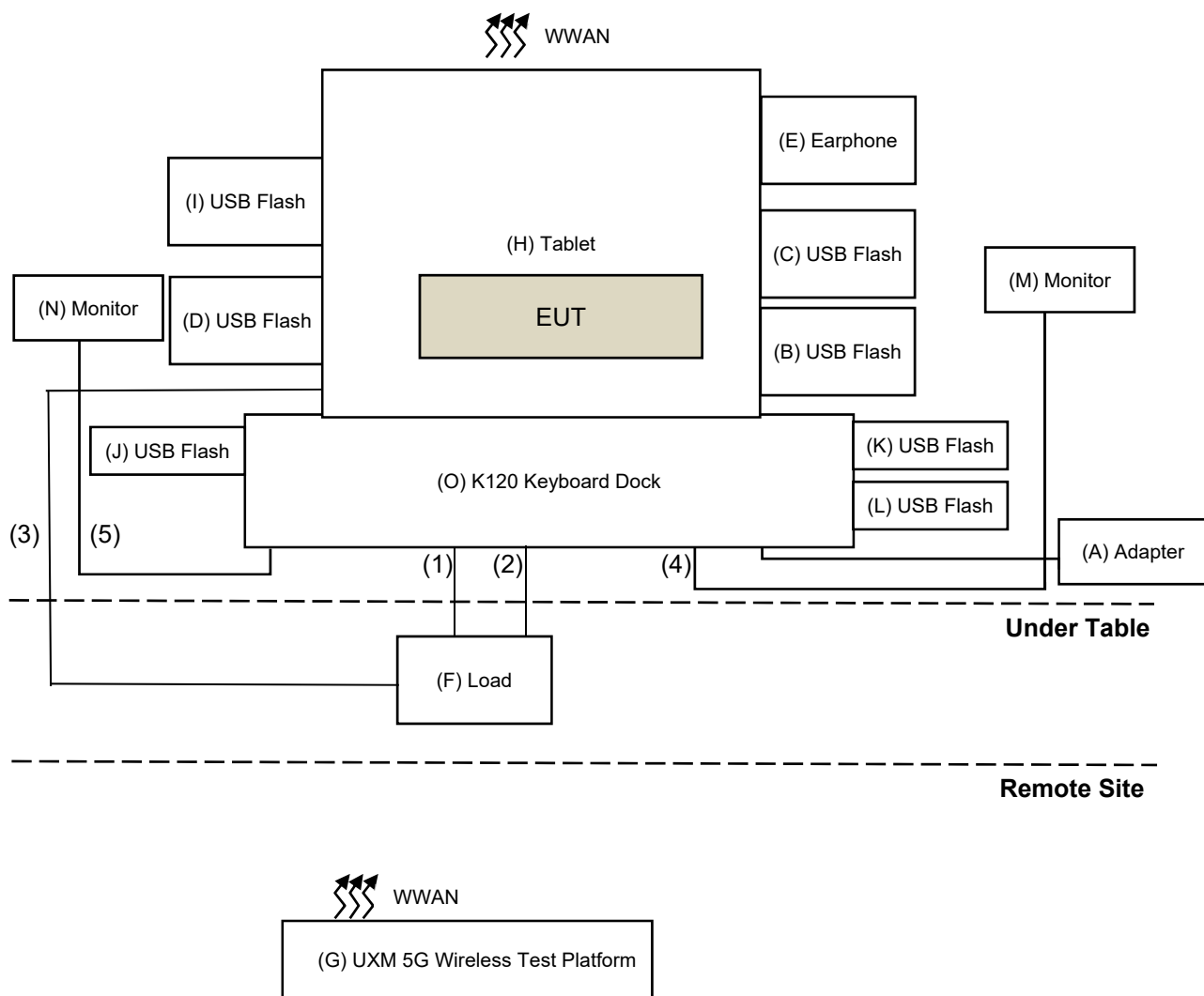
There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



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	UXM 5G Wireless Test Platform	Keysight	E7515B	MY60102115	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-01KFWF-WSL00-24C-714B	NA	Provided by Lab
N	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF-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 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
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 ~ 2026/1/8

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: 2025/12/3

5 Limits of Test Items

5.1 Maximum EIRP

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

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 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

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 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

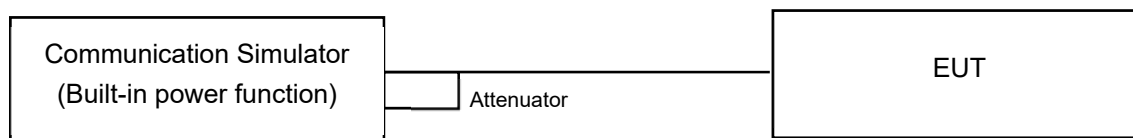
The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

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 test software or key-in commands 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.
- 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)

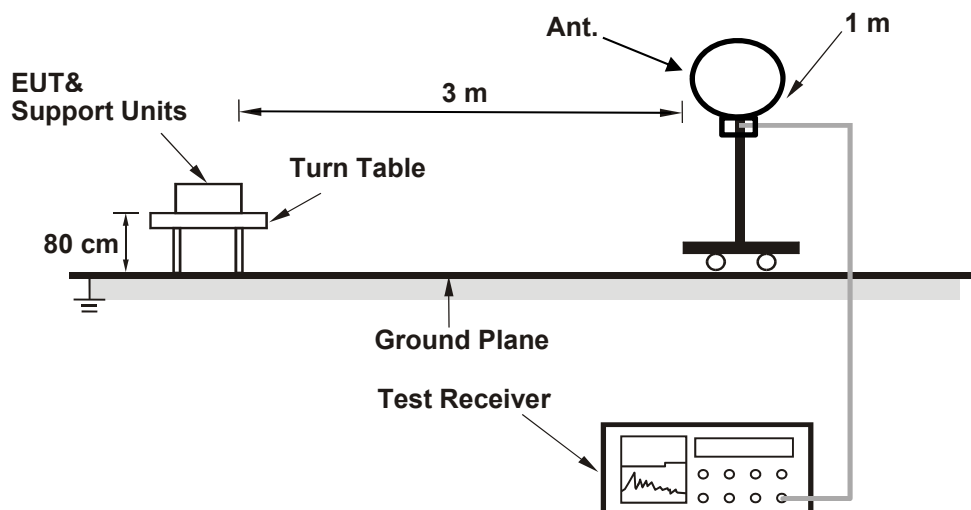
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

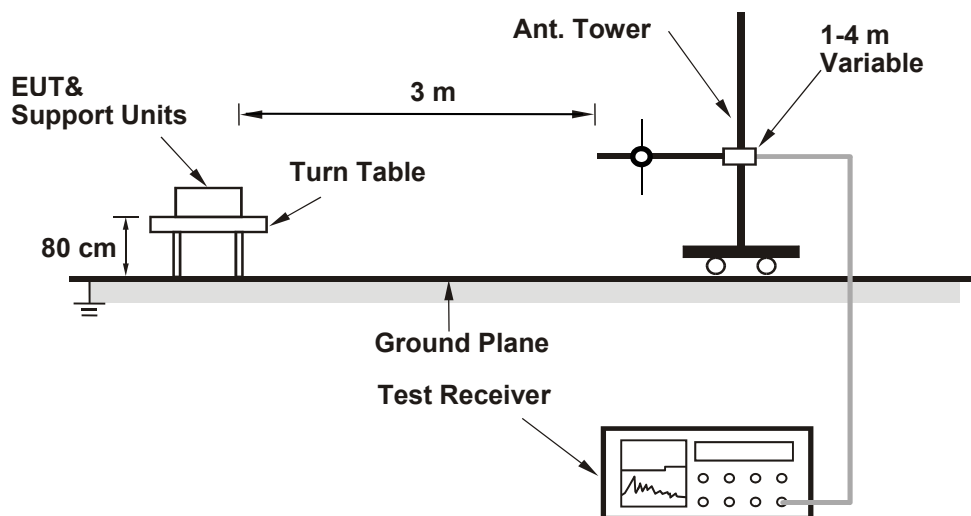
6.2 Radiated Spurious Emissions below 1GHz

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.

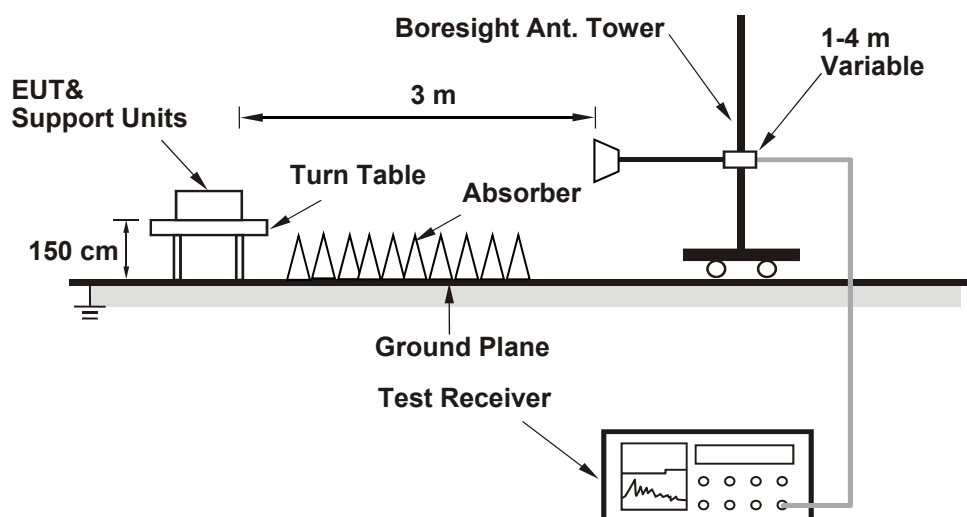
Note:

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, 62% RH	Tested By:	Charles Hsiao
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7.1.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	1	21.53	21.48	21.73
	1	0	21.05	20.88	20.98
QPSK	1	1	21.69	21.48	21.73
	1	0	20.52	20.38	20.50
	1	11	21.51	21.46	21.49
	1	22	21.52	21.43	21.42
	1	23	20.52	20.53	20.53
	12	0	20.58	20.46	20.48
	12	6	21.44	21.42	21.69
	12	12	20.45	20.41	20.54
	24	0	20.74	20.60	20.74
16QAM	1	0	19.65	19.53	19.78
64QAM	1	0	19.08	18.94	19.03
256QAM	1	0	17.09	16.90	17.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.88	21.73	15.27	16.12	23
QPSK	20.38	21.73	14.77	16.12	23
16QAM	19.53	19.78	13.92	14.17	23
64QAM	18.94	19.08	13.33	13.47	23
256QAM	16.9	17.09	11.29	11.48	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	21.54	21.47	21.70
	1	0	21.06	20.87	21.01
QPSK	1	1	21.74	21.58	21.71
	1	0	20.50	20.40	20.59
	1	19	21.53	21.47	21.53
	1	36	21.42	21.34	21.46
	1	37	20.54	20.57	20.58
	18	0	20.54	20.42	20.49
	18	10	21.48	21.41	21.70
	18	20	20.50	20.48	20.43
	36	0	20.66	20.56	20.75
16QAM	1	0	19.68	19.51	19.73
64QAM	1	0	18.98	18.86	19.14
256QAM	1	0	17.02	16.99	17.05

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.87	21.7	15.26	16.09	23
QPSK	20.4	21.74	14.79	16.13	23
16QAM	19.51	19.73	13.9	14.12	23
64QAM	18.86	19.14	13.25	13.53	23
256QAM	16.99	17.05	11.38	11.44	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	21.63	21.47	21.65
	1	0	20.93	20.83	21.01
QPSK	1	1	21.72	21.63	21.69
	1	0	20.60	20.27	20.60
	1	26	21.53	21.50	21.42
	1	49	21.50	21.32	21.49
	1	50	20.50	20.52	20.59
	25	0	20.58	20.42	20.57
	25	13	21.44	21.43	21.66
	25	26	20.42	20.35	20.52
	50	0	20.63	20.49	20.71
16QAM	1	0	19.68	19.56	19.64
64QAM	1	0	19.03	19.02	19.06
256QAM	1	0	17.03	16.99	17.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.83	21.65	15.22	16.04	23
QPSK	20.27	21.72	14.66	16.11	23
16QAM	19.56	19.68	13.95	14.07	23
64QAM	19.02	19.06	13.41	13.45	23
256QAM	16.99	17.03	11.38	11.42	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	21.57	21.43	21.69
	1	0	20.98	20.95	20.90
QPSK	1	1	21.70	21.60	21.71
	1	0	20.49	20.35	20.49
	1	39	21.57	21.34	21.54
	1	76	21.55	21.30	21.41
	1	77	20.52	20.51	20.52
	36	0	20.60	20.42	20.48
	36	21	21.46	21.39	21.70
	36	42	20.54	20.51	20.43
	75	0	20.69	20.49	20.72
16QAM	1	0	19.75	19.61	19.75
64QAM	1	0	18.95	18.94	19.16
256QAM	1	0	17.09	16.99	17.08

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.9	21.69	15.29	16.08	23
QPSK	20.35	21.71	14.74	16.1	23
16QAM	19.61	19.75	14	14.14	23
64QAM	18.94	19.16	13.33	13.55	23
256QAM	16.99	17.09	11.38	11.48	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	21.75	21.72	21.8
	1	0	21.18	21.06	21.11
QPSK	1	1	21.8	21.74	21.83
	1	0	20.73	20.60	20.72
	1	53	21.72	21.63	21.67
	1	104	21.67	21.51	21.64
	1	105	20.64	20.63	20.53
	50	0	20.74	20.62	20.71
	50	28	21.67	21.59	21.82
	50	56	20.64	20.66	20.68
	100	0	20.86	20.70	20.90
16QAM	1	0	19.85	19.75	19.89
64QAM	1	0	19.20	19.18	19.26
256QAM	1	0	17.19	17.07	17.24

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.06	21.8	15.45	16.19	23
QPSK	20.53	21.83	14.92	16.22	23
16QAM	19.75	19.89	14.14	14.28	23
64QAM	19.18	19.26	13.57	13.65	23
256QAM	17.07	17.24	11.46	11.63	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	21.46	21.4	21.62
	1	0	21.03	20.74	20.95
QPSK	1	1	21.7	21.45	21.65
	1	0	20.35	20.27	20.49
	1	19	21.41	21.46	21.38
	1	36	21.29	21.28	21.32
	1	37	20.46	20.52	20.45
	18	0	20.41	20.39	20.45
	18	10	21.33	21.33	21.65
	18	20	20.38	20.33	20.39
	36	0	19.21	19.21	19.37
16QAM	1	0	19.64	19.5	19.72
64QAM	1	0	18.92	18.76	19.12
256QAM	1	0	16.9	16.91	17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.74	21.62	15.13	16.01	23
QPSK	19.21	21.7	13.6	16.09	23
16QAM	19.5	19.72	13.89	14.11	23
64QAM	18.76	19.12	13.15	13.51	23
256QAM	16.9	17	11.29	11.39	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	21.49	21.43	21.57
	1	0	20.85	20.7	20.86
QPSK	1	1	21.58	21.52	21.62
	1	0	20.55	20.25	20.57
	1	26	21.47	21.36	21.36
	1	49	21.4	21.25	21.36
	1	50	20.41	20.44	20.48
	25	0	20.43	20.29	20.52
	25	13	21.33	21.31	21.57
	25	26	20.33	20.34	20.46
	50	0	18.1	17.98	18.21
16QAM	1	0	19.63	19.42	19.52
64QAM	1	0	18.9	18.94	19.02
256QAM	1	0	16.9	16.87	16.96

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.7	21.57	15.09	15.96	23
QPSK	17.98	21.62	12.37	16.01	23
16QAM	19.42	19.63	13.81	14.02	23
64QAM	18.9	19.02	13.29	13.41	23
256QAM	16.87	16.96	11.26	11.35	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	21.46	21.41	21.6
	1	0	20.92	20.91	20.8
QPSK	1	1	21.57	21.45	21.61
	1	0	20.39	20.3	20.37
	1	39	21.5	21.19	21.52
	1	76	21.52	21.22	21.26
	1	77	20.46	20.4	20.43
	36	0	19.59	19.39	19.46
	36	21	20.41	20.35	20.7
	36	42	19.49	19.37	19.34
	75	0	16.69	16.37	16.67
16QAM	1	0	19.7	19.58	19.64
64QAM	1	0	18.88	18.85	19.12
256QAM	1	0	17.04	16.98	17.05

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.8	21.6	15.19	15.99	23
QPSK	16.37	21.61	10.76	16	23
16QAM	19.58	19.7	13.97	14.09	23
64QAM	18.85	19.12	13.24	13.51	23
256QAM	16.98	17.05	11.37	11.44	23

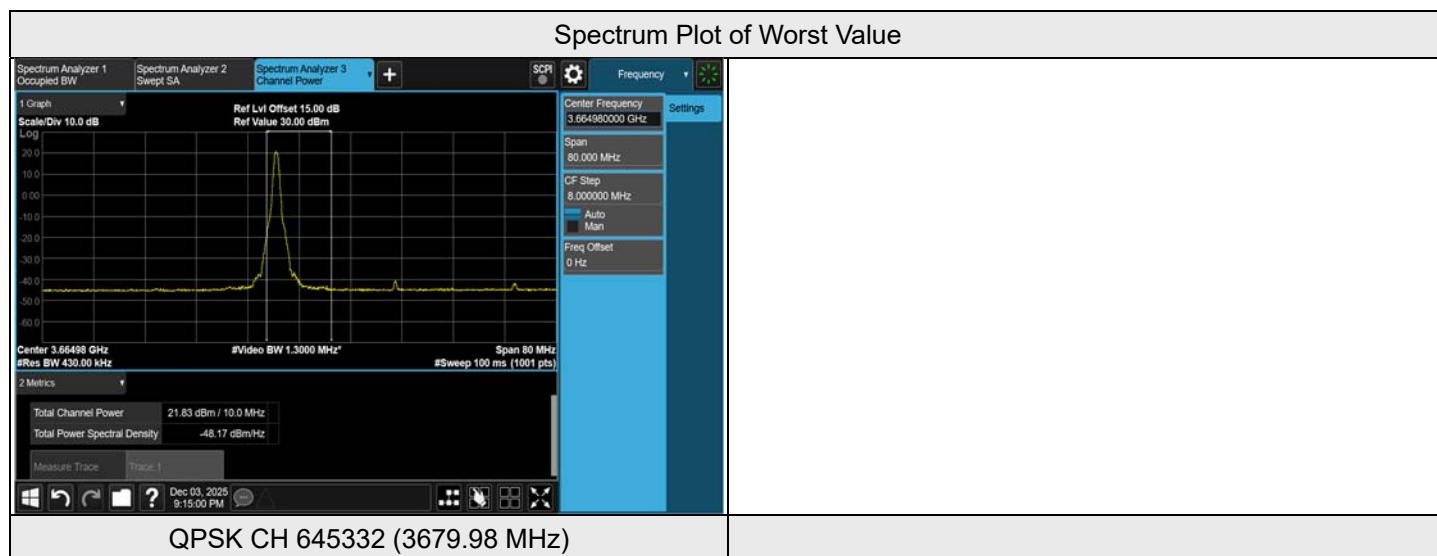
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	21.74	21.63	21.77
	1	0	21.12	20.96	21
QPSK	1	1	21.71	21.67	21.83
	1	0	20.69	20.56	20.64
	1	53	21.62	21.5	21.64
	1	104	21.62	21.36	21.6
	1	105	20.62	20.52	20.44
	50	0	18.26	18.12	18.27
	50	28	19.21	19.16	19.4
	50	56	18.22	18.14	18.19
	100	0	15.32	15.2	15.44
16QAM	1	0	19.81	19.71	19.84
64QAM	1	0	19.14	19.09	19.18
256QAM	1	0	17.07	16.96	17.19

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.96	21.77	15.35	16.16	23
QPSK	15.2	21.83	9.59	16.22	23
16QAM	19.71	19.84	14.1	14.23	23
64QAM	19.09	19.18	13.48	13.57	23
256QAM	16.96	17.19	11.35	11.58	23

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



7.2 Radiated Spurious Emissions below 1GHz

7.2.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

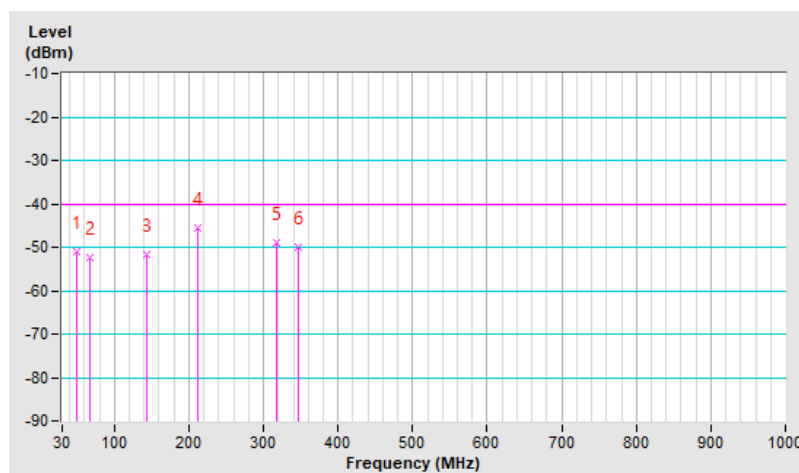
Mode A

RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 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	50.37	-51.18	-40.00	-11.18	1.00 H	24	52.93	-104.11
2	67.83	-52.22	-40.00	-12.22	1.00 H	24	53.49	-105.71
3	143.49	-51.67	-40.00	-11.67	1.00 H	277	52.10	-103.77
4	212.36	-45.72	-40.00	-5.72	1.00 H	146	60.24	-105.96
5	318.09	-49.15	-40.00	-9.15	1.00 H	203	51.96	-101.11
6	347.19	-49.94	-40.00	-9.94	1.00 H	216	50.87	-100.81

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.

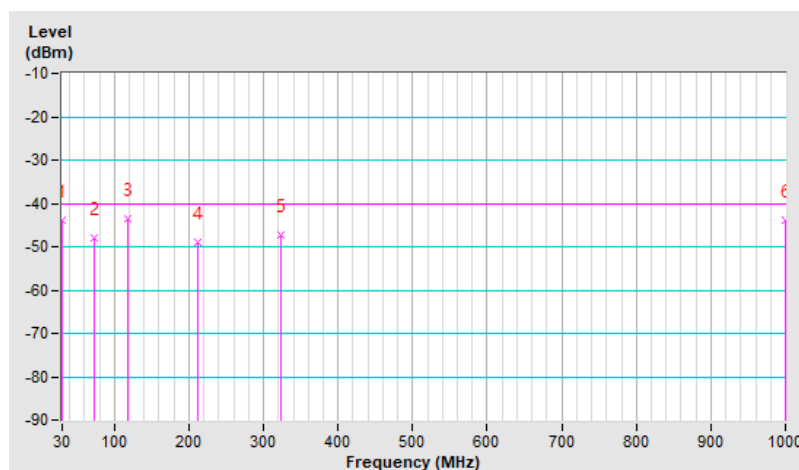


RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	30.00	-44.06	-40.00	-4.06	1.49 V	183	61.48	-105.54
2	73.65	-47.90	-40.00	-7.90	1.00 V	80	59.01	-106.91
3	118.27	-43.53	-40.00	-3.53	1.00 V	147	62.56	-106.09
4	211.39	-49.05	-40.00	-9.05	1.00 V	352	56.95	-106.00
5	323.91	-47.21	-40.00	-7.21	1.00 V	99	53.74	-100.95
6	1000.00	-43.82	-40.00	-3.82	1.00 V	334	45.20	-89.02

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.



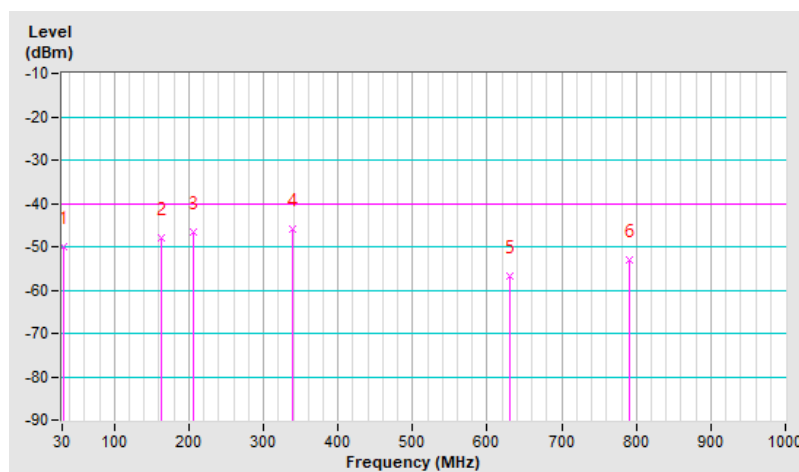
Mode B

RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 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	31.94	-49.86	-40.00	-9.86	2.00 H	85	55.76	-105.62
2	163.86	-48.09	-40.00	-8.09	1.00 H	296	55.40	-103.49
3	206.54	-46.47	-40.00	-6.47	1.50 H	167	59.69	-106.16
4	339.43	-46.08	-40.00	-6.08	1.50 H	2	54.76	-100.84
5	630.43	-56.93	-40.00	-16.93	1.00 H	286	38.19	-95.12
6	791.45	-52.91	-40.00	-12.91	1.00 H	347	39.27	-92.18

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.

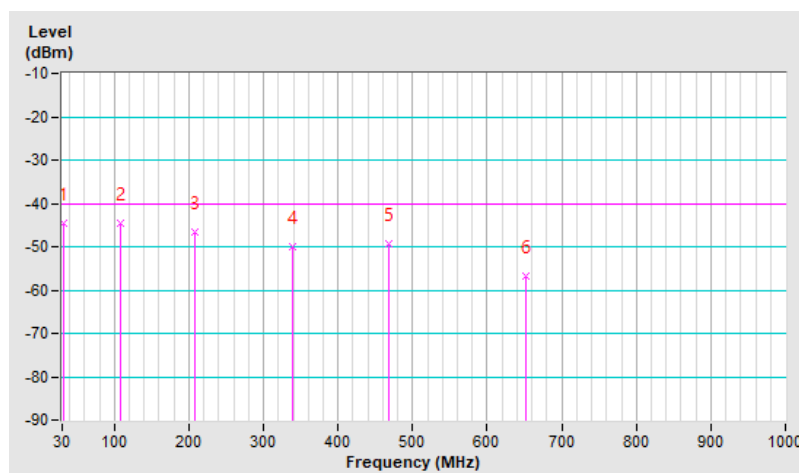


RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	32.91	-44.69	-40.00	-4.69	2.00 V	315	60.87	-105.56
2	107.60	-44.45	-40.00	-4.45	1.00 V	217	62.64	-107.09
3	208.48	-46.67	-40.00	-6.67	1.50 V	156	59.44	-106.11
4	339.43	-50.15	-40.00	-10.15	1.50 V	312	50.69	-100.84
5	468.44	-49.33	-40.00	-9.33	1.00 V	178	48.93	-98.26
6	652.74	-56.64	-40.00	-16.64	1.00 V	243	38.22	-94.86

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.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

RF Mode	NR n48 Channel Bandwidth: 10MHz	Channel	CH 637000 : 3555 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	7110.00	-41.35	-40.00	-1.35	1.58 H	186	44.24	-85.59
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	7110.00	-41.12	-40.00	-1.12	2.27 V	200	44.47	-85.59

Remarks:

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

RF Mode	NR n48 Channel Bandwidth: 10MHz	Channel	CH 641666 : 3624.99 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	7249.98	-41.13	-40.00	-1.13	1.60 H	190	44.25	-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	7249.98	-40.93	-40.00	-0.93	2.23 V	206	44.45	-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	NR n48 Channel Bandwidth: 10MHz	Channel	CH 643222 : 3648.33 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	7389.96	-40.95	-40.00	-0.95	1.54 H	188	43.82	-84.77
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	7389.96	-40.72	-40.00	-0.72	2.25 V	201	44.05	-84.77

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	NR n48 Channel Bandwidth: 20MHz	Channel	CH 637334 : 3560.01 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	7120.02	-41.43	-40.00	-1.43	1.59 H	191	44.15	-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	7120.02	-41.25	-40.00	-1.25	2.31 V	205	44.33	-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	NR n48 Channel Bandwidth: 20MHz	Channel	CH 641666 : 3624.99 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	7249.98	-41.36	-40.00	-1.36	1.57 H	182	44.02	-85.38
2	7380.00	-40.98	-40.00	-0.98	1.55 H	194	43.82	-84.80
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	7249.98	-41.12	-40.00	-1.12	2.29 V	204	44.26	-85.38
2	7380.00	-40.74	-40.00	-0.74	2.22 V	197	44.06	-84.80

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	NR n48 Channel Bandwidth: 40MHz	Channel	CH 638000 : 3570 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	7140.00	-41.65	-40.00	-1.65	1.60 H	193	43.92	-85.57
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	7140.00	-41.42	-40.00	-1.42	2.12 V	201	44.15	-85.57

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	NR n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 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	7249.98	-41.56	-40.00	-1.56	1.52 H	197	43.82	-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	7249.98	-41.31	-40.00	-1.31	2.20 V	193	44.07	-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	NR n48 Channel Bandwidth: 40MHz	Channel	CH 645332 : 3679.98 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	7359.96	-41.02	-40.00	-1.02	1.59 H	182	43.86	-84.88
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	7359.96	-40.76	-40.00	-0.76	2.13 V	190	44.12	-84.88

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.

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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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