

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Report No.: RFBEDV-WTW-P23030565A-2

FCC ID: G95RG525FNA

Product: Module

Brand: Vantiva

Model No.: RG525FNA

Received Date: 2023/3/16

Test Date: 2024/10/25 ~ 2025/1/15

Issued Date: 2025/2/3

Applicant: Vantiva USA LLC

Address: 4855 Peachtree Industrial Blvd. Suite 200 Norcross, Georgia 30092

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 /

Designation Number: 788550 / TW0003

Approved by:

Jeremy Lin

Date:

2025/2/3

Jeremy Lin / Project Engineer

This test report consists of 81 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Pettie Chen / Senior Specialist



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	7
2.2 Supplementary Information	7
3 General Information	8
3.1 General Description of EUT	8
3.2 Antenna Description of EUT	13
3.3 Test Mode Applicability and Tested Channel Detail.....	14
3.3.1 NR n7 SCS 15 kHz	14
3.3.2 NR n14 SCS 15 kHz	15
3.3.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz).....	15
3.3.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz).....	16
3.3.5 NR n30 SCS 15 kHz	16
3.4 Test Program Used and Operation Descriptions	17
3.5 Connection Diagram of EUT and Peripheral Devices	17
3.6 Configuration of Peripheral Devices and Cable Connections	17
4 Test Instruments	18
4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power	18
4.2 Radiated Spurious Emissions below 1GHz.....	18
4.3 Radiated Spurious Emissions above 1GHz	19
5 Limits of Test Items.....	20
5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power	20
5.2 Radiated Spurious Emissions below 1GHz.....	20
5.3 Radiated Spurious Emissions above 1GHz	21
6 Test Arrangements.....	22
6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power	22
6.1.1 Test Setup	22
6.1.2 Test Procedure	22
6.2 Radiated Spurious Emissions below 1GHz.....	23
6.2.1 Test Setup	23
6.2.2 Test Procedure	24
6.3 Radiated Spurious Emissions above 1GHz	25
6.3.1 Test Setup	25
6.3.2 Test Procedure	25
7 Test Results of Test Item.....	26
7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power	26
7.1.1 NR n7 SCS 15 kHz	26
7.1.2 NR n14 SCS 15 kHz	33
7.1.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz).....	35
7.1.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz).....	39
7.1.5 NR n30 SCS 15 kHz	43
7.2 Radiated Spurious Emissions below 1GHz.....	45
7.2.1 NR n7 SCS 15 kHz	45
7.2.2 NR n14 SCS 15 kHz	47
7.2.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz).....	49
7.2.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz).....	51
7.2.5 NR n30 SCS 15 kHz	53
7.3 Radiated Spurious Emissions above 1GHz	55
7.3.1 NR n7 SCS 15 kHz	55
7.3.2 NR n14 SCS 15 kHz	64
7.3.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz).....	68
7.3.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz).....	72



7.3.5	NR n30 SCS 15 kHz	76
8	Pictures of Test Arrangements	80
9	Information of the Testing Laboratories	81

Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P23030565A-2	Original release.	2025/2/3

1 Certificate

Product: Module

Brand: Vantiva

Test Model: RG525FNA

Sample Status: Engineering sample

Applicant: Vantiva USA LLC

Test Date: 2024/10/25 ~ 2025/1/15

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Measurement Procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 971168 D02 Misc Rev Approv License Devices v02r02

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

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 22.913 (a) Part 27.50(h) Part 27.50(a) Part 90.635(b) Part 90.542(a)(7)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	NA	Refer to Note
Part 22.913 (d)	Peak to Average Ratio	NA	Refer to Note
Part 2.1049	Bandwidth	NA	Refer to Note
Part 2.1051 Part 22.917 Part 27.53(m) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Conducted Spurious Emissions	NA	Refer to Note
Part 2.1053 Part 22.917 Part 27.53(m) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -3.59 dB at 191.02 MHz
Part 2.1053 Part 22.917 Part 27.53(m) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -4.43 dB at 4620.00 MHz
Part 2.1055 Part 22.355 Part 27.54 Part 90.213 Part 90.539(e)	Frequency Stability	NA	Refer to Note

Note:

1. This report is issued as a supplementary report. Therefore, only test item of Effective Radiated Power and Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to MRT Technology (Suzhou) Co., Ltd report no.: 2211RSU034-U6, 2211RSU034-U7, 2211RSU034-U8, 2211RSU034-U9 for module (Brand: Quectel, Model: RG525F-NA).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Parameter	Specification	Uncertainty (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	Module
Brand	Vantiva
Test Model	RG525FNA
Status of EUT	Engineering sample
Power Supply Rating	Refer to Note
EUT Category	Mobile station

Note:

1. This report is a supplementary report to BV CPS report no.: RFBEDV-WTW-P23030565-4. The differences compared with the original report are to enable LTE Band: Band 14, 17, 29 (down link only), 30, 42, 43 & LTE Band 42, 43 (HPUE PC2) & 5GNR Band: n7, n14, n26, n30, n48 by software and add host marketing name. Therefore, only the Effective Radiated Power and Equivalent Isotropically Radiated Power and Radiated Spurious Emissions test had been an addendum test to this report. Refer to original report for the other test data.

2. EUT Overview

NR n7 SCS 15 kHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
5 MHz	2502.5 ~ 2567.5	DFT-S BPSK	0.617	27.90
		DFT-S QPSK	0.617	27.90
		DFT-S 16QAM	0.491	26.91
		DFT-S 64QAM	0.381	25.81
		DFT-S 256QAM	0.303	24.81
10 MHz	2505 ~ 2565	DFT-S BPSK	0.622	27.94
		DFT-S QPSK	0.615	27.89
		DFT-S 16QAM	0.486	26.87
		DFT-S 64QAM	0.374	25.73
		DFT-S 256QAM	0.302	24.80
15 MHz	2507.5 ~ 2562.5	DFT-S BPSK	0.607	27.83
		DFT-S QPSK	0.604	27.81
		DFT-S 16QAM	0.502	27.01
		DFT-S 64QAM	0.373	25.72
		DFT-S 256QAM	0.313	24.95
20 MHz	2510 ~ 2560	DFT-S BPSK	0.598	27.77
		DFT-S QPSK	0.627	27.97
		DFT-S 16QAM	0.492	26.92
		DFT-S 64QAM	0.374	25.73
		DFT-S 256QAM	0.316	24.99

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
25 MHz	2512.5 ~ 2557.5	DFT-S BPSK	0.597	27.76
		DFT-S QPSK	0.612	27.87
		DFT-S 16QAM	0.505	27.03
		DFT-S 64QAM	0.381	25.81
		DFT-S 256QAM	0.31	24.92
30 MHz	2515 ~ 2555	DFT-S BPSK	0.611	27.86
		DFT-S QPSK	0.607	27.83
		DFT-S 16QAM	0.498	26.97
		DFT-S 64QAM	0.376	25.75
		DFT-S 256QAM	0.314	24.97
40 MHz	2520 ~ 2550	DFT-S BPSK	0.628	27.98
		DFT-S QPSK	0.631	28.00
		DFT-S 16QAM	0.511	27.08
		DFT-S 64QAM	0.381	25.81
		DFT-S 256QAM	0.316	25

NR n14 SCS 15 kHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)
5 MHz	790.5 ~ 795.5	DFT-S BPSK	0.202	23.05
		DFT-S QPSK	0.203	23.07
		DFT-S 16QAM	0.158	21.99
		DFT-S 64QAM	0.122	20.85
		DFT-S 256QAM	0.074	18.72
10 MHz	793	DFT-S BPSK	0.207	23.15
		DFT-S QPSK	0.207	23.16
		DFT-S 16QAM	0.163	22.11
		DFT-S 64QAM	0.122	20.85
		DFT-S 256QAM	0.072	18.58

NR n26 SCS 15 kHz (814 MHz ~ 824 MHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)
5 MHz	816.5 ~ 821.5	DFT-S BPSK	0.172	22.35
		DFT-S QPSK	0.177	22.49
		DFT-S 16QAM	0.144	21.57
		DFT-S 64QAM	0.104	20.17
		DFT-S 256QAM	0.076	18.80
		CP QPSK	0.148	21.7
		CP 16QAM	0.131	21.17
		CP 64QAM	0.084	19.25
		CP 256QAM	0.044	16.46
10 MHz	819	DFT-S BPSK	0.178	22.51
		DFT-S QPSK	0.179	22.53
		DFT-S 16QAM	0.144	21.57
		DFT-S 64QAM	0.105	20.20
		DFT-S 256QAM	0.077	18.88
		CP QPSK	0.146	21.64
		CP 16QAM	0.134	21.26
		CP 64QAM	0.086	19.35
		CP 256QAM	0.044	16.41
15 MHz	821.5	DFT-S BPSK	0.177	22.49
		DFT-S QPSK	0.18	22.55
		DFT-S 16QAM	0.144	21.59
		DFT-S 64QAM	0.105	20.22
		DFT-S 256QAM	0.081	19.09
		CP QPSK	0.16	22.04
		CP 16QAM	0.137	21.36
		CP 64QAM	0.087	19.41
		CP 256QAM	0.045	16.56
20 MHz	824	DFT-S BPSK	0.179	22.54
		DFT-S QPSK	0.182	22.59
		DFT-S 16QAM	0.146	21.64
		DFT-S 64QAM	0.105	20.23
		DFT-S 256QAM	0.082	19.15
		CP QPSK	0.129	21.09
		CP 16QAM	0.134	21.28
		CP 64QAM	0.086	19.37
		CP 256QAM	0.046	16.64

NR n26 SCS 15 kHz (824 MHz ~ 849 MHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)
5 MHz	826.5 ~ 846.5	DFT-S BPSK	0.175	22.42
		DFT-S QPSK	0.175	22.42
		DFT-S 16QAM	0.145	21.62
		DFT-S 64QAM	0.11	20.40
		DFT-S 256QAM	0.078	18.90
10 MHz	826.5 ~ 846.5	DFT-S BPSK	0.172	22.35
		DFT-S QPSK	0.18	22.56
		DFT-S 16QAM	0.147	21.68
		DFT-S 64QAM	0.11	20.41
		DFT-S 256QAM	0.08	19.02
15 MHz	831.5 ~ 841.5	DFT-S BPSK	0.176	22.45
		DFT-S QPSK	0.18	22.56
		DFT-S 16QAM	0.15	21.77
		DFT-S 64QAM	0.11	20.41
		DFT-S 256QAM	0.084	19.23
20 MHz	834 ~ 839	DFT-S BPSK	0.182	22.60
		DFT-S QPSK	0.183	22.62
		DFT-S 16QAM	0.151	21.79
		DFT-S 64QAM	0.112	20.51
		DFT-S 256QAM	0.084	19.26

NR n30 SCS 15 kHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W/5MHz)	Max. EIRP (dBm/5MHz)
5 MHz	2307.5 ~ 2312.5	DFT-S BPSK	0.192	22.83
		DFT-S QPSK	0.197	22.94
		DFT-S 16QAM	0.164	22.14
		DFT-S 64QAM	0.121	20.81
		DFT-S 256QAM	0.081	19.11
10 MHz	2535	DFT-S BPSK	0.157	21.96
		DFT-S QPSK	0.199	22.99
		DFT-S 16QAM	0.164	22.14
		DFT-S 64QAM	0.123	20.90
		DFT-S 256QAM	0.08	19.02

3. The EUT is authorized for use in specific End-product. Please refer to below for more details. (New model is marked in boldface.)

Item	Brand	Model	Note
WIFI Gateway	Vantiva	MGA5331	Model difference only for marketing strategy.
		MGA5331VBV5	

*The RF characteristics of the above two host models are the same as the newly added frequency band of this module.

4. The adapter for the End-product.

AC Adapter		
Brand	Model	Specification
HONOR	ADS-42FI-12 12042EPCU-L	AC Input: 100-120V~ 50/60Hz 1.2A max. DC Output: 12VDC, 3.5A, 42W DC Output Cable: 1.5m, Non-Shielded

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.

Antenna Type		PCB		
Antenna Connector		Iplex(MHF)		
Item	Band	TX Ant	Gain (dBi)	
			ANT0	ANT3
5G NR FR1	n2	Ant 0	5.05	3.47
	n5	Ant 0	2.38	1.58
	n7	Ant 3	5.02	5.7
	n12	Ant 0	1.12	1.99
	n14	Ant 0	2.02	0.74
	n25	Ant 0	5.05	3.47
	n26 (824 ~ 849MHz)	Ant 0	2.38	1.75
	n26 (814 ~ 824MHz)	Ant 0	2.3	1.75
	n30	Ant 3	4.65	2
	n38	Ant 3	5.43	6.11
	n41	Ant 3 UL-MIMO: Ant 0+3	5.43	6.17
	n66	Ant 0	4.84	3.96
	n71	Ant 0	1.12	1.99
	n77/n78 (3450MHz-3550MHz)	Ant 0 UL-MIMO: Ant 0+3	3.65	3.72
	n77/n78 (3700MHz-3980MHz)	Ant 0 UL-MIMO: Ant 0+3	5.37	4.59

* Detail antenna specification please refer to antenna datasheet an antenna gain measurement report.

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.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis 2. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP/ERP had been tested under BPSK, QPSK, 16QAM, 64QAM and 256QAM mode, the other items were performed under QPSK mode only. 3. For transmitter unwanted emissions, choose the maximum EIRP/ERP power and 1RB mode worst case were selected for the final test.

3.3.1 NR n7 SCS 15 kHz

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501000(2505.00 MHz) 507000(2535.00 MHz) 513000(2565.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	501500(2507.50 MHz) 507000(2535.00 MHz) 512500(2562.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	502500(2512.50 MHz) 507000(2535.00 MHz) 511500(2557.50 MHz)	25 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	503000(2515.00 MHz) 507000(2535.00 MHz) 511000(2555.00 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	507000(2535.00 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	500500(2502.50 MHz) 507000(2535.00 MHz) 513500(2567.50 MHz)	5 MHz	QPSK	1 RB
	502000(2510.00 MHz) 507000(2535.00 MHz) 512000(2560.00 MHz)	20 MHz	QPSK	1 RB
	504000(2520.00 MHz) 507000(2535.00 MHz) 510000(2550.00 MHz)	40 MHz	QPSK	1 RB

3.3.2 NR n14 SCS 15 kHz

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	158100(790.50 MHz) 158600(793.00 MHz) 159100(795.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	158600(793.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	158600(793.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	158100(790.50 MHz) 158600(793.00 MHz) 159100(795.50 MHz)	5 MHz	QPSK	1 RB
	158600(793.00 MHz)	10 MHz	QPSK	1 RB

3.3.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	163300(816.50 MHz) 163800(819.00 MHz) 164300(821.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	163800(819.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	164300 (821.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	164800 (824.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	164800 (824.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	163300(816.50 MHz) 163800(819.00 MHz) 164300(821.50 MHz)	5 MHz	QPSK	1 RB
	164800 (824.00 MHz)	20 MHz	QPSK	1 RB

3.3.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	165300(826.50 MHz) 167300(836.50 MHz) 169300(846.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	165800(829.00 MHz) 167300(836.50 MHz) 168800(844.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	166300(831.50 MHz) 167300(836.50 MHz) 168300(841.50 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	167300(836.50 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	167300(836.50 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	165300(826.50 MHz) 167300(836.50 MHz) 169300(846.50 MHz)	5 MHz	QPSK	1 RB
	167300(836.50 MHz)	20 MHz	QPSK	1 RB

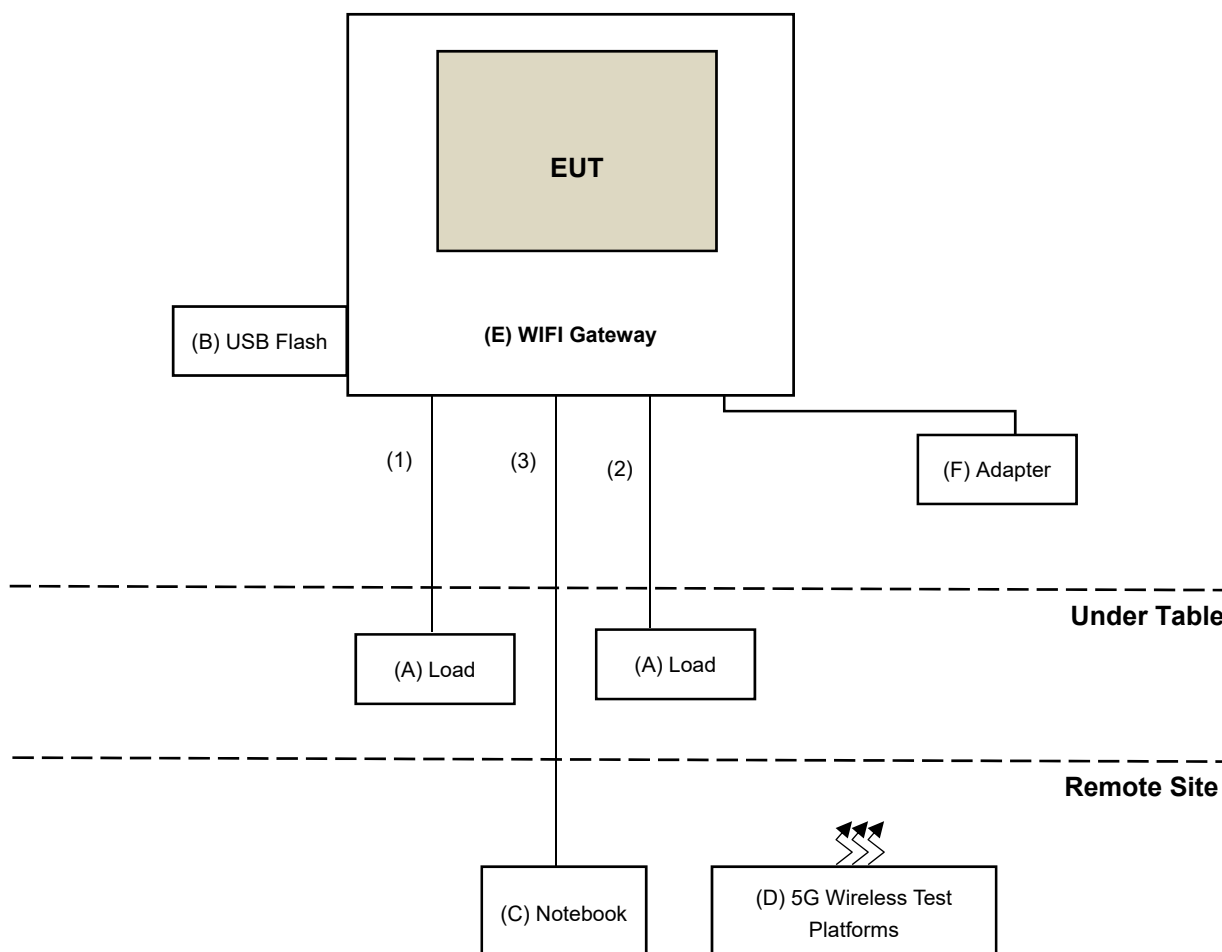
3.3.5 NR n30 SCS 15 kHz

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	461500(2307.50 MHz) 462000(2310.00 MHz) 462500(2312.50 MHz)	5 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	462000(2310.00 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	462000(2310.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	461500(2307.50 MHz) 462000(2310.00 MHz) 462500(2312.50 MHz)	5 MHz	QPSK	1 RB
	462000(2310.00 MHz)	10 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 5G Wireless Test Platforms 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	Load*2	N/A	N/A	N/A	N/A	Provided by Lab
B	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C	Notebook	Lenovo	X250ALT5	PC06HPSE	N/A	Provided by Lab
D	5G Wireless Test Platforms	Keysight	E7515B	MY60102114	N/A	Provided by Lab
E	WIFI Gateway	Vantiva	MGA5331	N/A	N/A	Provided by applicant
F	Adapter	HONOR	ADS-42FI-12 12042EPCU-L	N/A	N/A	Provided by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ11 Cable	1	1.5	No	0	Provided by Lab
2	RJ45 Cable	4	1.5	No	0	Provided by Lab
3	RJ45 Cable	1	10	No	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 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/10/25 ~ 2025/1/15

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Keysight	N9038A	MY55420137	2024/5/8	2025/5/7
Preamplifier EMCI	EMC 330H	980112	2024/9/24	2025/9/23
	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/11/13

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2024/11/10	2025/11/9
	BBHA 9170	148	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038A	MY55420137	2024/5/8	2025/5/7
Preamplifier EMCI	EMC 012645	980115	2024/9/24	2025/9/23
	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
	EMC104-SM-SM-8000+3000	171005	2024/9/24	2025/9/23
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/11/11 ~ 2024/12/6

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For NR n26 SCS 15 kHz (824 MHz ~ 849 MHz):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

For NR n14 SCS 15 kHz:

Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

For NR n26 SCS 15 kHz (814 MHz ~ 824 MHz):

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ERP.

For NR n30 SCS 15 kHz:

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

For NR n7 SCS 15 kHz:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

5.2 Radiated Spurious Emissions below 1GHz

For NR n26 SCS 15 kHz (824 MHz ~ 849 MHz):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For NR n14 SCS 15 kHz:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

For NR n26 SCS 15 kHz (814 MHz ~ 824 MHz):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For NR n30 SCS 15 kHz:

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log(P)$ dB. The limit of emission is equal to -40 dBm.

For NR n7 SCS 15 kHz:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

5.3 Radiated Spurious Emissions above 1GHz

For NR n26 SCS 15 kHz (824 MHz ~ 849 MHz):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For NR n14 SCS 15 kHz:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For NR n26 SCS 15 kHz (814 MHz ~ 824 MHz):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For NR n30 SCS 15 kHz:

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log(P)$ dB. The limit of emission is equal to -40 dBm.

For NR n7 SCS 15 kHz:

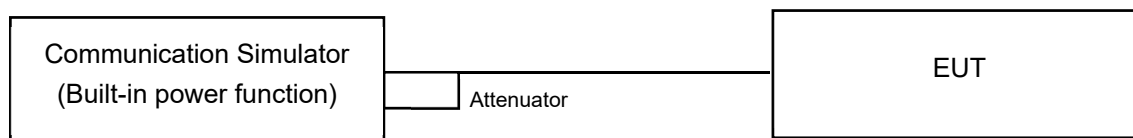
According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

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. The average (rms) power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator. 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.
- 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)

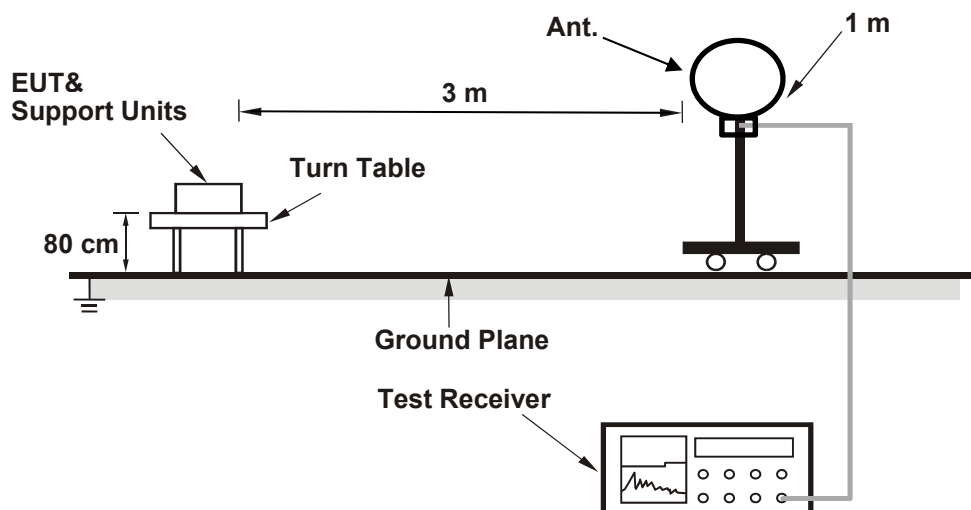
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

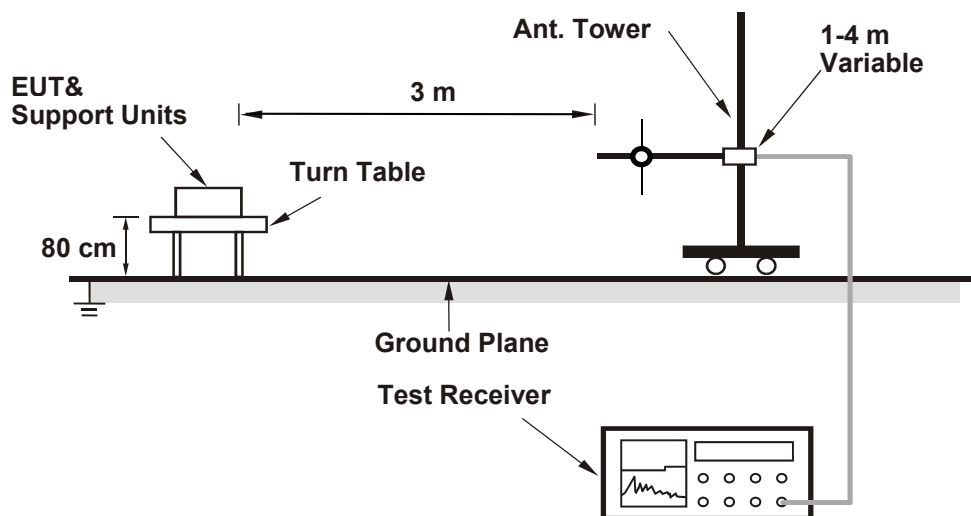
6.2 Radiated Spurious Emissions below 1GHz

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.

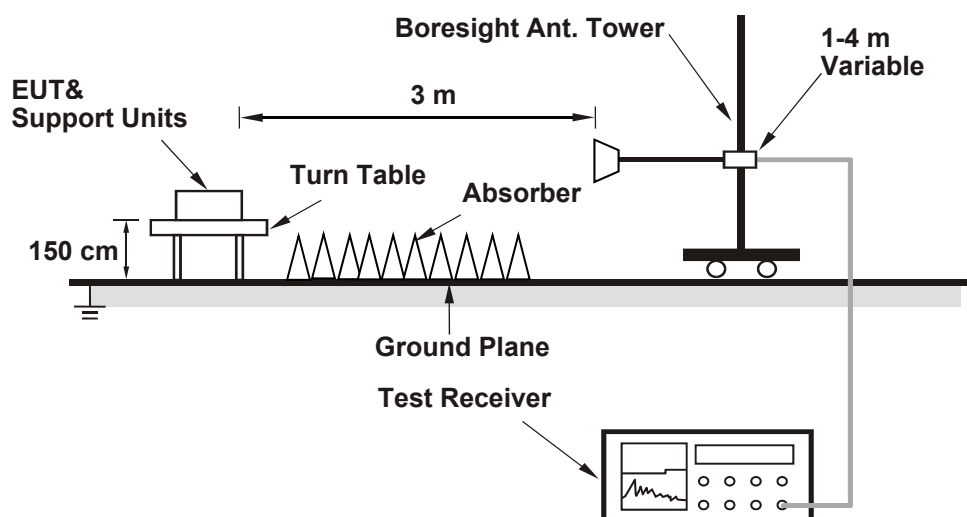
Note:

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 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23°C, 71% RH	Tested By:	Charles
--------------	----------------	---------------------------	--------------	------------	---------

7.1.1 NR n7 SCS 15 kHz

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 500500	CH 507000	CH 513500
			2502.5 MHz	2535 MHz	2567.5 MHz
DFT-S BPSK	1	1	22.20	22.07	22.07
DFT-S QPSK	1	1	22.19	22.01	22.18
	1	13	22.02	21.87	22.20
	1	23	21.93	21.77	21.96
	12	0	21.26	21.20	21.28
	12	7	21.33	21.00	21.08
	12	13	21.38	21.04	21.07
	25	0	21.29	21.18	21.41
DFT-S 16 QAM	1	1	21.16	21.21	21.20
DFT-S 64 QAM	1	1	20.11	19.96	19.95
DFT-S 256 QAM	1	1	19.05	19.10	19.11

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.07	22.20	27.77	27.90	33.01
DFT-S QPSK	21.00	22.20	26.70	27.90	33.01
DFT-S 16QAM	21.16	21.21	26.86	26.91	33.01
DFT-S 64QAM	19.95	20.11	25.65	25.81	33.01
DFT-S 256QAM	19.05	19.11	24.75	24.81	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501000	CH 507000	CH 513000
			2505 MHz	2535 MHz	2565 MHz
DFT-S BPSK	1	1	22.05	21.95	22.24
DFT-S QPSK	1	1	22.19	22.00	22.18
	1	26	22.14	21.92	22.01
	1	50	22.04	21.83	21.97
	25	0	21.26	21.15	21.34
	25	14	21.20	21.24	21.26
	25	27	21.21	21.22	21.23
	50	0	21.43	21.18	21.16
DFT-S 16 QAM	1	1	21.12	21.12	21.17
DFT-S 64 QAM	1	1	20.03	20.02	19.79
DFT-S 256 QAM	1	1	19.10	19.05	19.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	21.95	22.24	27.65	27.94	33.01
DFT-S QPSK	21.15	22.19	26.85	27.89	33.01
DFT-S 16QAM	21.12	21.17	26.82	26.87	33.01
DFT-S 64QAM	19.79	20.03	25.49	25.73	33.01
DFT-S 256QAM	19.03	19.10	24.73	24.80	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 501500	CH 507000	CH 512500
			2507.5 MHz	2535 MHz	2562.5 MHz
DFT-S BPSK	1	1	22.09	22.13	22.12
DFT-S QPSK	1	1	22.06	22.00	22.09
	1	40	22.11	21.90	22.07
	1	77	22.07	21.86	21.90
	36	0	21.48	21.18	21.19
	36	22	21.41	21.05	21.29
	36	43	21.13	21.08	21.21
	75	0	21.37	21.24	21.32
DFT-S 16 QAM	1	1	21.16	21.31	21.27
DFT-S 64QAM	1	1	19.89	19.87	20.02
DFT-S 256QAM	1	1	19.25	19.11	19.18

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.09	22.13	27.79	27.83	33.01
DFT-S QPSK	21.05	22.11	26.75	27.81	33.01
DFT-S 16QAM	21.16	21.31	26.86	27.01	33.01
DFT-S 64QAM	19.87	20.02	25.57	25.72	33.01
DFT-S 256QAM	19.11	19.25	24.81	24.95	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 502000	CH 507000	CH 512000
			2510 MHz	2535 MHz	2560 MHz
DFT-S BPSK	1	1	22.04	22.07	22.02
DFT-S QPSK	1	1	22.27	22.09	22.22
	1	53	22.14	21.93	22.20
	1	104	22.02	21.92	22.06
	50	0	21.29	21.22	21.42
	50	28	21.37	21.12	21.28
	50	56	21.20	21.29	21.03
	100	0	21.24	21.32	21.24
DFT-S 16QAM	1	1	21.14	21.22	21.09
DFT-S 64QAM	1	1	20.03	19.94	19.92
DFT-S 256QAM	1	1	19.26	19.29	19.25

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.02	22.07	27.72	27.77	33.01
DFT-S QPSK	21.03	22.27	26.73	27.97	33.01
DFT-S 16QAM	21.09	21.22	26.79	26.92	33.01
DFT-S 64QAM	19.92	20.03	25.62	25.73	33.01
DFT-S 256QAM	19.25	19.29	24.95	24.99	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 25 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 502500	CH 507000	CH 511500
			2512.5 MHz	2535 MHz	2557.5 MHz
DFT-S BPSK	1	1	22.06	21.91	22.00
DFT-S QPSK	1	1	22.02	22.02	22.17
	1	67	21.94	21.98	22.00
	1	131	21.90	21.89	22.08
	64	0	21.46	21.32	21.25
	64	35	21.36	21.06	21.35
	64	69	21.33	21.32	21.19
	133	0	21.45	21.20	21.38
DFT-S 16QAM	1	1	21.22	21.33	21.28
DFT-S 64QAM	1	1	20.11	19.83	19.99
DFT-S 256QAM	1	1	19.22	19.12	19.02

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	21.91	22.06	27.61	27.76	33.01
DFT-S QPSK	21.06	22.17	26.76	27.87	33.01
DFT-S 16QAM	21.22	21.33	26.92	27.03	33.01
DFT-S 64QAM	19.83	20.11	25.53	25.81	33.01
DFT-S 256QAM	19.02	19.22	24.72	24.92	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 503000	CH 507000	CH 511000
			2515 MHz	2535 MHz	2555 MHz
DFT-S BPSK	1	1	22.16	22.03	22.06
DFT-S QPSK	1	1	22.02	22.13	22.09
	1	81	21.94	21.92	21.99
	1	160	21.97	21.97	22.06
	80	0	21.47	21.33	21.36
	80	41	21.31	20.97	21.18
	80	81	21.32	21.18	21.28
	160	0	21.35	21.45	21.30
DFT-S 16QAM	1	1	21.27	21.09	21.22
DFT-S 64QAM	1	1	20.05	19.95	19.84
DFT-S 256QAM	1	1	19.21	19.27	19.18

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.03	22.16	27.73	27.86	33.01
DFT-S QPSK	20.97	22.13	26.67	27.83	33.01
DFT-S 16QAM	21.09	21.27	26.79	26.97	33.01
DFT-S 64QAM	19.84	20.05	25.54	25.75	33.01
DFT-S 256QAM	19.18	19.27	24.88	24.97	33.01

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

NR n7 SCS 15 kHz - Ant 3, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 504000	CH 507000	CH 510000
			2520 MHz	2535 MHz	2550 MHz
DFT-S BPSK	1	1	22.28	22.20	22.26
DFT-S QPSK	1	1	22.30	22.29	22.28
	1	109	22.23	22.14	22.20
	1	214	22.17	22.06	22.12
	108	0	21.49	21.40	21.44
	108	54	21.45	21.26	21.36
	108	108	21.40	21.33	21.30
	216	0	21.50	21.47	21.44
DFT-S 16QAM	1	1	21.38	21.33	21.36
DFT-S 64QAM	1	1	20.11	20.06	20.05
DFT-S 256QAM	1	1	19.30	19.22	19.20

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
DFT-S BPSK	22.20	22.28	27.90	27.98	33.01
DFT-S QPSK	21.26	22.30	26.96	28.00	33.01
DFT-S 16QAM	21.33	21.38	27.03	27.08	33.01
DFT-S 64QAM	20.05	20.11	25.75	25.81	33.01
DFT-S 256QAM	19.20	19.30	24.90	25	33.01

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

7.1.2 NR n14 SCS 15 kHz

NR n14 SCS 15 kHz - Ant 0, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 158100	CH 158600	CH 159100
			790.5 MHz	793 MHz	795.5 MHz
DFT-S BPSK	1	1	23.09	23.18	23.01
DFT-S QPSK	1	1	23.03	23.08	23.09
	1	13	22.94	22.94	23.05
	1	23	23.20	23.04	22.94
	12	0	22.18	22.05	22.24
	12	7	23.15	23.19	22.96
	12	13	21.88	21.96	21.89
	25	0	21.90	22.05	22.16
DFT-S 16 QAM	1	1	22.09	21.97	22.12
DFT-S 64 QAM	1	1	20.98	20.80	20.69
DFT-S 256 QAM	1	1	18.66	18.68	18.85

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	23.01	23.18	22.88	23.05	44.77
DFT-S QPSK	21.88	23.20	21.75	23.07	44.77
DFT-S 16QAM	21.97	22.12	21.84	21.99	44.77
DFT-S 64QAM	20.69	20.98	20.56	20.85	44.77
DFT-S 256QAM	18.66	18.85	18.53	18.72	44.77

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n14 SCS 15 kHz - Ant 0, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 158600
			793 MHz
DFT-S BPSK	1	1	23.28
DFT-S QPSK	1	1	23.29
	1	26	23.22
	1	50	23.20
	25	0	22.25
	25	14	23.19
	25	27	22.17
	50	0	22.16
DFT-S 16 QAM	1	1	22.24
DFT-S 64 QAM	1	1	20.98
DFT-S 256 QAM	1	1	18.71

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	23.28	23.28	23.15	23.15	44.77
DFT-S QPSK	22.16	23.29	22.03	23.16	44.77
DFT-S 16QAM	22.24	22.24	22.11	22.11	44.77
DFT-S 64QAM	20.98	20.98	20.85	20.85	44.77
DFT-S 256QAM	18.71	18.71	18.58	18.58	44.77

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

ERP (dBm) = EIRP (dBm) - 2.15

7.1.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz)

NR n26 SCS 15 kHz (814 MHz ~ 824 MHz) - Ant 0, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 163300	CH 163800	CH 164300
			816.5 MHz	819 MHz	821.5 MHz
DFT-S BPSK	1	1	22.11	22.08	22.20
DFT-S QPSK	1	1	22.10	22.12	22.34
	1	13	22.10	22.16	22.16
	1	23	22.32	22.30	22.31
	12	0	21.14	21.37	21.38
	12	7	22.34	22.33	22.14
	12	13	21.03	21.28	21.26
	25	0	21.40	21.22	21.15
DFT-S 16 QAM	1	1	21.40	21.42	21.15
DFT-S 64 QAM	1	1	20.02	19.76	19.89
DFT-S 256 QAM	1	1	18.65	18.55	18.46
CP QPSK	1	1	21.59	21.55	21.60
CP 16QAM	1	1	21.02	20.95	21.01
CP 64QAM	1	1	19.10	18.99	19.10
CP 256QAM	1	1	16.21	16.31	16.23

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.08	22.20	22.23	22.35	50
DFT-S QPSK	21.03	22.34	21.18	22.49	50
DFT-S 16QAM	21.15	21.42	21.30	21.57	50
DFT-S 64QAM	19.76	20.02	19.91	20.17	50
DFT-S 256QAM	18.46	18.65	18.61	18.80	50
CP QPSK	21.60	21.55	21.75	21.7	50
CP 16QAM	20.95	21.02	21.1	21.17	50
CP 64QAM	18.99	19.10	19.14	19.25	50
CP 256QAM	16.21	16.31	16.36	16.46	50

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (814 MHz ~ 824 MHz) - Ant 0, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 163800
			819 MHz
DFT-S BPSK	1	1	22.36
DFT-S QPSK	1	1	22.38
	1	26	22.33
	1	50	22.35
	25	0	21.42
	25	14	22.35
	25	27	21.32
	50	0	21.42
DFT-S 16 QAM	1	1	21.44
DFT-S 64 QAM	1	1	20.05
DFT-S 256 QAM	1	1	18.65
CP QPSK	1	1	21.49
CP 16QAM	1	1	21.11
CP 64QAM	1	1	19.20
CP 256QAM	1	1	16.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.36	22.36	22.51	22.51	50
DFT-S QPSK	21.32	22.38	21.47	22.53	50
DFT-S 16QAM	21.42	21.42	21.57	21.57	50
DFT-S 64QAM	20.05	20.05	20.20	20.20	50
DFT-S 256QAM	18.65	18.65	18.88	18.88	50
CP QPSK	21.49	21.49	21.64	21.64	50
CP 16QAM	21.11	21.11	21.26	21.26	50
CP 64QAM	19.20	19.20	19.35	19.35	50
CP 256QAM	16.26	16.26	16.41	16.41	50

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (814 MHz ~ 824 MHz) - Ant 0, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 164300
			821.5 MHz
DFT-S BPSK	1	1	22.34
DFT-S QPSK	1	1	22.40
	1	26	22.35
	1	50	22.32
	25	0	21.28
	25	14	22.27
	25	27	21.25
	50	0	21.39
DFT-S 16 QAM	1	1	21.44
DFT-S 64 QAM	1	1	20.07
DFT-S 256 QAM	1	1	18.94
CP QPSK	1	1	21.89
CP 16QAM	1	1	21.21
CP 64QAM	1	1	19.26
CP 256QAM	1	1	16.41

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.34	22.34	22.49	22.49	50
DFT-S QPSK	21.25	22.40	21.40	22.55	50
DFT-S 16QAM	21.44	21.44	21.59	21.59	50
DFT-S 64QAM	20.07	20.07	20.22	20.22	50
DFT-S 256QAM	18.94	18.94	19.09	19.09	50
CP QPSK	21.89	21.89	22.04	22.04	50
CP 16QAM	21.21	21.21	21.36	21.36	50
CP 64QAM	19.26	19.26	19.41	19.41	50
CP 256QAM	16.41	16.41	16.56	16.56	50

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (814 MHz ~ 824 MHz) - Ant 0, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 164800
			824 MHz
DFT-S BPSK	1	1	22.39
DFT-S QPSK	1	1	22.44
	1	26	22.36
	1	50	22.40
	25	0	21.38
	25	14	22.36
	25	27	21.30
	50	0	21.45
DFT-S 16 QAM	1	1	21.49
DFT-S 64 QAM	1	1	20.08
DFT-S 256 QAM	1	1	19.00
CP QPSK	1	1	21.75
CP 16QAM	1	1	21.13
CP 64QAM	1	1	19.22
CP 256QAM	1	1	16.49

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.39	22.39	22.54	22.54	50
DFT-S QPSK	21.30	22.44	21.45	22.59	50
DFT-S 16QAM	21.49	21.49	21.64	21.64	50
DFT-S 64QAM	20.08	20.08	20.23	20.23	50
DFT-S 256QAM	19	19	19.15	19.15	50
CP QPSK	21.75	21.75	21.9	21.09	50
CP 16QAM	21.13	21.13	21.28	21.28	50
CP 64QAM	19.22	19.22	19.37	19.37	50
CP 256QAM	16.49	16.49	16.64	16.64	50

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

ERP (dBm) = EIRP (dBm) - 2.15

7.1.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz)

NR n26 SCS 15 kHz (824 MHz ~ 849 MHz) - Ant 0, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 165300	CH 167300	CH 169300
			826.5 MHz	836.5 MHz	846.5 MHz
DFT-S BPSK	1	1	21.92	21.91	22.19
DFT-S QPSK	1	1	22.04	22.00	22.05
	1	13	22.13	22.10	21.92
	1	23	22.09	21.88	22.19
	12	0	21.31	21.23	21.52
	12	7	22.05	22.04	21.96
	12	13	21.07	21.12	21.36
	25	0	21.49	21.24	21.20
DFT-S 16 QAM	1	1	21.35	21.39	21.25
DFT-S 64 QAM	1	1	19.76	19.88	20.17
DFT-S 256 QAM	1	1	18.67	18.50	18.59

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	21.91	22.19	22.14	22.42	38.45
DFT-S QPSK	21.07	22.19	21.30	22.42	38.45
DFT-S 16QAM	21.25	21.39	21.48	21.62	38.45
DFT-S 64QAM	19.76	20.17	19.99	20.40	38.45
DFT-S 256QAM	18.50	18.67	18.73	18.90	38.45

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (824 MHz ~ 849 MHz) - Ant 0, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 165300	CH 167300	CH 169300
			826.5 MHz	836.5 MHz	846.5 MHz
DFT-S BPSK	1	1	22.04	22.05	22.12
DFT-S QPSK	1	1	22.06	22.00	21.98
	1	26	22.06	21.98	21.74
	1	50	22.33	21.85	22.09
	25	0	21.12	21.28	21.36
	25	14	21.96	22.11	22.02
	25	27	21.23	21.04	21.44
	50	0	21.51	21.31	21.22
DFT-S 16 QAM	1	1	21.45	21.34	21.38
DFT-S 64 QAM	1	1	19.89	19.79	20.18
DFT-S 256 QAM	1	1	18.79	18.71	18.64

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.04	22.12	22.27	22.35	38.45
DFT-S QPSK	21.04	22.33	21.27	22.56	38.45
DFT-S 16QAM	21.34	21.45	21.57	21.68	38.45
DFT-S 64QAM	19.79	20.18	20.02	20.41	38.45
DFT-S 256QAM	18.64	18.79	18.87	19.02	38.45

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (824 MHz ~ 849 MHz) - Ant 0, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 166300	CH 167300	CH 168300
			831.5 MHz	836.5 MHz	841.5 MHz
DFT-S BPSK	1	1	22.14	22.11	22.22
DFT-S QPSK	1	1	22.21	22.15	22.10
	1	40	22.22	22.23	22.03
	1	77	22.33	22.13	22.30
	36	0	21.37	21.31	21.59
	36	22	22.25	22.15	22.20
	36	43	21.26	21.32	21.49
	75	0	21.61	21.53	21.44
DFT-S 16 QAM	1	1	21.54	21.41	21.44
DFT-S 64 QAM	1	1	20.02	19.99	20.18
DFT-S 256 QAM	1	1	19.	18.92	18.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.11	22.22	22.34	22.45	38.45
DFT-S QPSK	21.26	22.33	21.49	22.56	38.45
DFT-S 16QAM	21.41	21.54	21.64	21.77	38.45
DFT-S 64QAM	19.99	20.18	20.22	20.41	38.45
DFT-S 256QAM	18.92	19	19.15	19.23	38.45

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

ERP (dBm) = EIRP (dBm) - 2.15

NR n26 SCS 15 kHz (824 MHz ~ 849 MHz) - Ant 0, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 166800	CH 167300	CH 167800
			834 MHz	836.5 MHz	839 MHz
DFT-S BPSK	1	1	22.26	22.37	22.31
DFT-S QPSK	1	1	22.34	22.39	22.32
	1	40	22.20	22.32	22.22
	1	77	22.23	22.37	22.27
	36	0	21.52	21.60	21.52
	36	22	22.27	22.38	22.27
	36	43	21.38	21.50	21.40
	75	0	21.51	21.63	21.52
DFT-S 16 QAM	1	1	21.42	21.56	21.42
DFT-S 64 QAM	1	1	20.14	20.28	20.20
DFT-S 256 QAM	1	1	18.94	19.03	18.89

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
DFT-S BPSK	22.26	22.37	22.49	22.60	38.45
DFT-S QPSK	21.38	22.39	21.61	22.62	38.45
DFT-S 16QAM	21.42	21.56	21.65	21.79	38.45
DFT-S 64QAM	20.14	20.28	20.37	20.51	38.45
DFT-S 256QAM	18.89	19.03	19.12	19.26	38.45

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

ERP (dBm) = EIRP (dBm) - 2.15

7.1.5 NR n30 SCS 15 kHz

NR n30 SCS 15 kHz - Ant 3, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm/5MHz)		
			CH 461500	CH 462000	CH 462500
			2307.5 MHz	2310 MHz	2312.5 MHz
DFT-S BPSK	1	1	20.82	20.69	20.83
DFT-S QPSK	1	1	20.90	20.86	20.86
	1	13	20.83	20.88	20.82
	1	23	20.78	20.90	20.87
	12	0	20.17	19.92	20.13
	12	7	20.94	20.82	20.73
	12	13	20.03	19.95	19.96
	25	0	19.96	20.10	20.09
DFT-S 16 QAM	1	1	20.06	20.13	20.14
DFT-S 64 QAM	1	1	18.62	18.81	18.62
DFT-S 256 QAM	1	1	17.10	17.09	17.11

Output Power					
Modulation	Minimum Cond. Power (dBm/5MHz)	Maximum Cond. Power (dBm/5MHz)	Minimum EIRP (dBm/5MHz)	Maximum EIRP (dBm/5MHz)	EIRP Limit (dBm/5MHz)
DFT-S BPSK	20.69	20.83	22.69	22.83	23.98
DFT-S QPSK	19.92	20.94	21.92	22.94	23.98
DFT-S 16QAM	20.06	20.14	22.06	22.14	23.98
DFT-S 64QAM	18.62	18.81	20.62	20.81	23.98
DFT-S 256QAM	17.09	17.11	19.09	19.11	23.98

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

NR n30 SCS 15 kHz - Ant 3, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm/5MHz)
			CH 507000
			2535 MHz
DFT-S BPSK	1	1	20.96
DFT-S QPSK	1	1	20.92
	1	26	20.95
	1	50	20.99
	25	0	20.17
	25	14	20.94
	25	27	20.18
	50	0	20.10
DFT-S 16 QAM	1	1	20.14
DFT-S 64 QAM	1	1	18.90
DFT-S 256 QAM	1	1	17.02

Output Power					
Modulation	Minimum Cond. Power (dBm/5MHz)	Maximum Cond. Power (dBm/5MHz)	Minimum EIRP (dBm/5MHz)	Maximum EIRP (dBm/5MHz)	EIRP Limit (dBm/5MHz)
DFT-S BPSK	20.96	20.96	21.96	21.96	23.98
DFT-S QPSK	20.10	20.99	22.10	22.99	23.98
DFT-S 16QAM	20.14	20.14	22.14	22.14	23.98
DFT-S 64QAM	18.90	18.90	20.90	20.90	23.98
DFT-S 256QAM	17.02	17.02	19.02	19.02	23.98

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

7.2 Radiated Spurious Emissions below 1GHz

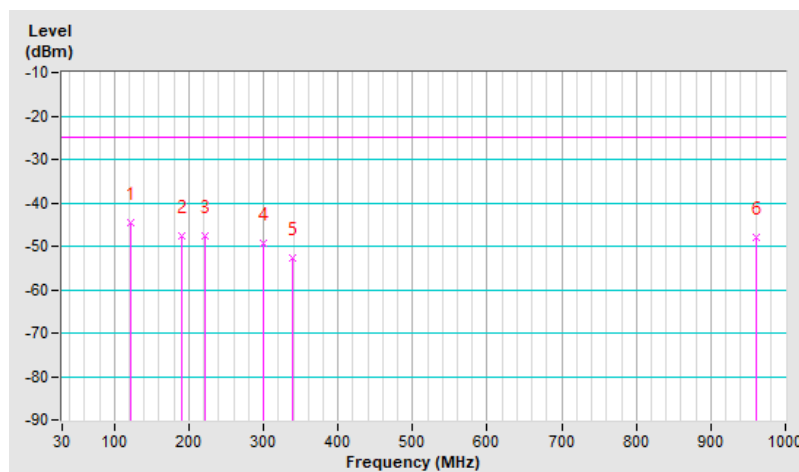
7.2.1 NR n7 SCS 15 kHz

RF Mode	NR n7 Channel Bandwidth: 40MHz	Channel	CH 507000 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	121.18	-44.70	-25.00	-19.70	1.00 H	60	64.54	-109.24
2	191.02	-47.72	-25.00	-22.72	1.49 H	120	62.54	-110.26
3	221.09	-47.49	-25.00	-22.49	1.49 H	96	63.36	-110.85
4	299.66	-49.38	-25.00	-24.38	1.00 H	251	57.49	-106.87
5	338.46	-52.68	-25.00	-27.68	1.00 H	205	53.31	-105.99
6	960.23	-47.93	-25.00	-22.93	2.00 H	72	46.55	-94.48

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.

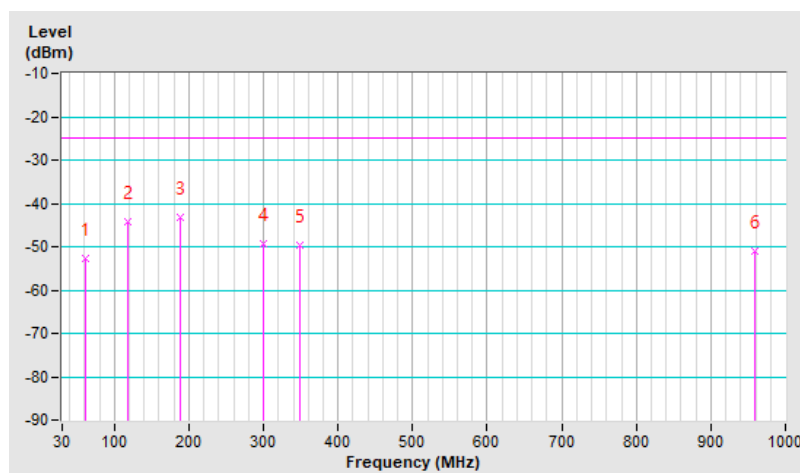


RF Mode	NR n7 Channel Bandwidth: 40MHz	Channel	CH 507000 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

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	61.04	-52.67	-25.00	-27.67	1.51 V	3	55.67	-108.34
2	117.30	-44.32	-25.00	-19.32	1.01 V	200	65.24	-109.56
3	189.08	-43.14	-25.00	-18.14	1.01 V	123	66.98	-110.12
4	299.66	-49.28	-25.00	-24.28	1.51 V	104	57.59	-106.87
5	348.16	-49.62	-25.00	-24.62	1.01 V	123	56.31	-105.93
6	959.26	-51.11	-25.00	-26.11	2.00 V	58	43.38	-94.49

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.



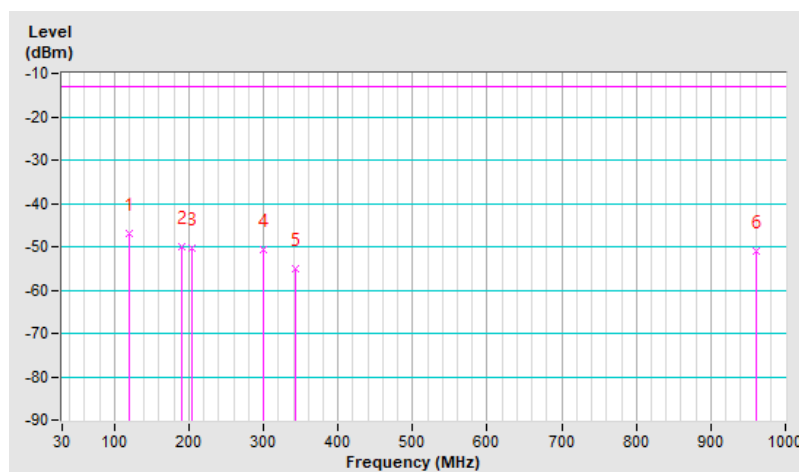
7.2.2 NR n14 SCS 15 kHz

RF Mode	NR n14 Channel Bandwidth: 10MHz	Channel	CH 158600 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	120.21	-46.85	-13.00	-33.85	1.49 H	97	64.60	-111.45
2	191.02	-49.88	-13.00	-36.88	1.49 H	123	62.53	-112.41
3	203.63	-50.20	-13.00	-37.20	1.00 H	133	62.66	-112.86
4	299.66	-50.56	-13.00	-37.56	1.00 H	103	58.46	-109.02
5	342.34	-55.17	-13.00	-42.17	2.00 H	208	52.97	-108.14
6	960.23	-51.06	-13.00	-38.06	1.00 H	69	45.57	-96.63

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

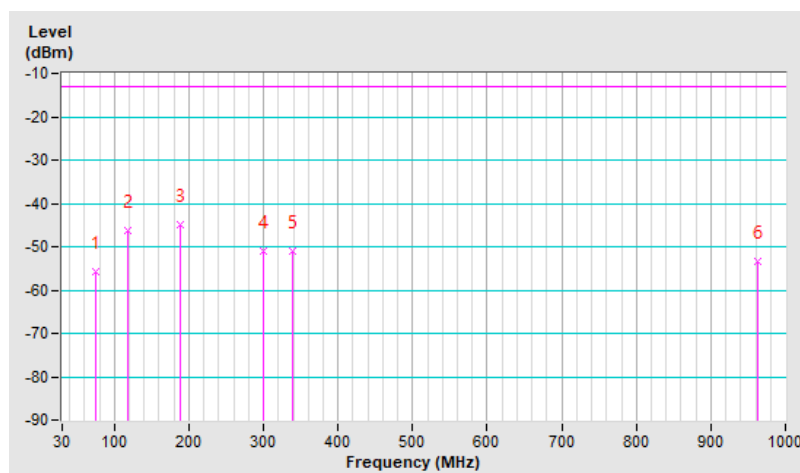


RF Mode	NR n14 Channel Bandwidth: 10MHz	Channel	CH 158600 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.62	-55.62	-13.00	-42.62	1.01 V	0	57.34	-112.96
2	117.30	-46.44	-13.00	-33.44	1.51 V	328	65.27	-111.71
3	189.08	-44.99	-13.00	-31.99	1.01 V	123	67.28	-112.27
4	300.63	-51.16	-13.00	-38.16	1.51 V	174	57.83	-108.99
5	338.46	-50.99	-13.00	-37.99	1.01 V	203	57.15	-108.14
6	962.17	-53.50	-13.00	-40.50	2.00 V	69	43.09	-96.59

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP 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.



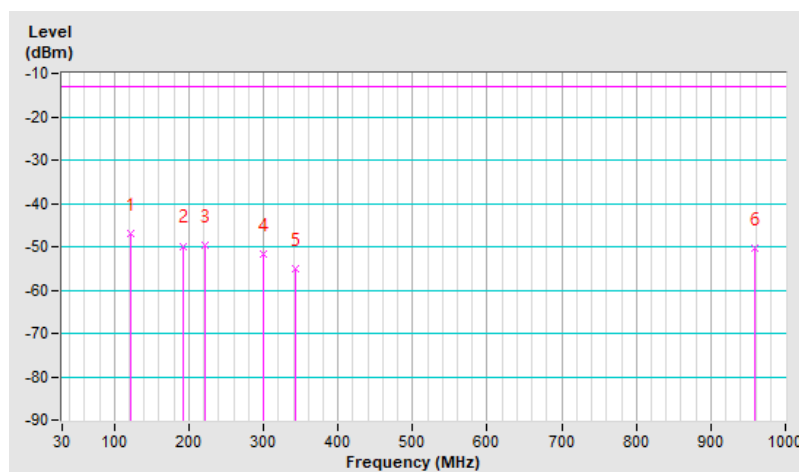
7.2.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz)

RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 164800 : 824 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	121.18	-46.97	-13.00	-33.97	2.00 H	100	64.42	-111.39
2	191.99	-49.83	-13.00	-36.83	1.51 H	94	62.69	-112.52
3	222.06	-49.65	-13.00	-36.65	1.51 H	112	63.38	-113.03
4	299.66	-51.57	-13.00	-38.57	1.01 H	239	57.45	-109.02
5	342.34	-55.02	-13.00	-42.02	1.01 H	214	53.12	-108.14
6	959.26	-50.33	-13.00	-37.33	1.51 H	68	46.31	-96.64

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

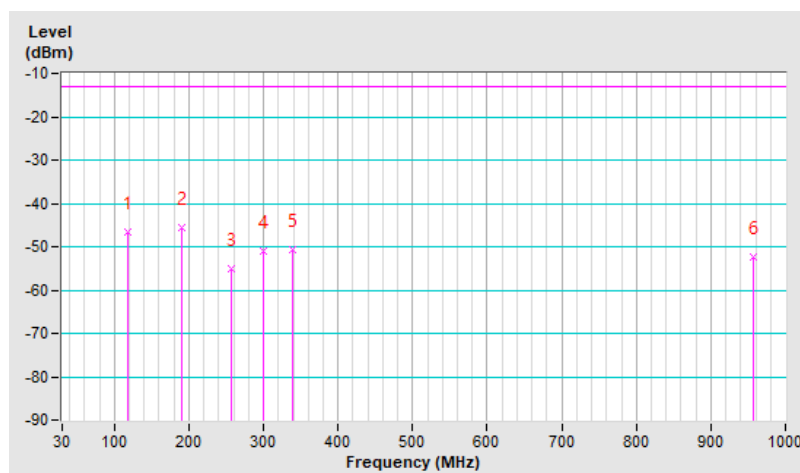


RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 164800 : 824 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	118.27	-46.71	-13.00	-33.71	1.00 V	330	64.98	-111.69
2	190.05	-45.58	-13.00	-32.58	1.49 V	125	66.80	-112.38
3	256.98	-55.02	-13.00	-42.02	1.00 V	110	55.65	-110.67
4	299.66	-51.06	-13.00	-38.06	1.49 V	178	57.96	-109.02
5	339.43	-50.56	-13.00	-37.56	1.49 V	193	57.59	-108.15
6	957.32	-52.37	-13.00	-39.37	2.00 V	57	44.31	-96.68

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + $20\log(D) - 104.8 - 2.15$
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



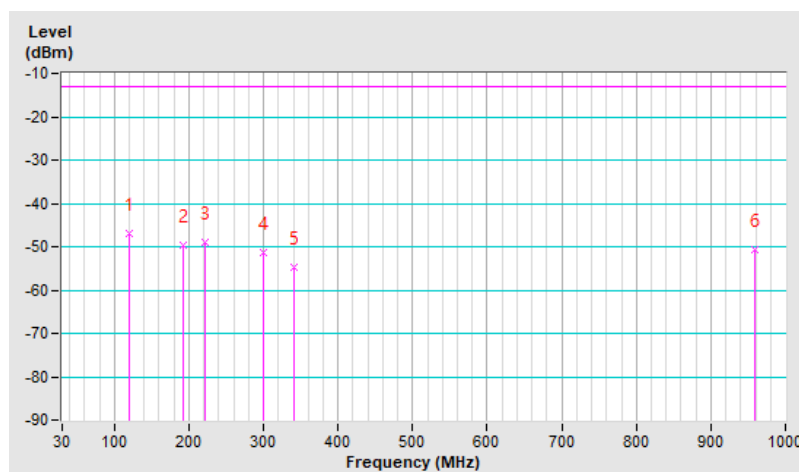
7.2.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz)

RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 167300 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	120.21	-46.92	-13.00	-33.92	1.00 H	101	64.53	-111.45
2	191.99	-49.83	-13.00	-36.83	1.49 H	124	62.69	-112.52
3	222.06	-48.94	-13.00	-35.94	1.49 H	99	64.09	-113.03
4	299.66	-51.34	-13.00	-38.34	1.00 H	232	57.68	-109.02
5	341.37	-54.78	-13.00	-41.78	2.00 H	204	53.37	-108.15
6	959.26	-50.59	-13.00	-37.59	1.49 H	69	46.05	-96.64

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

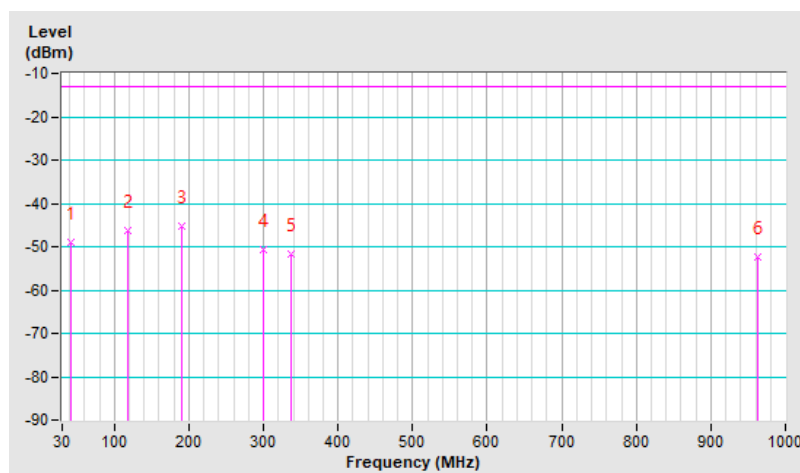


RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 167300 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	-49.11	-13.00	-36.11	1.01 V	2	60.57	-109.68
2	117.30	-46.36	-13.00	-33.36	2.00 V	163	65.35	-111.71
3	190.05	-45.18	-13.00	-32.18	1.01 V	124	67.20	-112.38
4	299.66	-50.74	-13.00	-37.74	1.51 V	164	58.28	-109.02
5	336.52	-51.62	-13.00	-38.62	1.51 V	196	56.52	-108.14
6	962.17	-52.37	-13.00	-39.37	1.01 V	54	44.22	-96.59

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP 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.



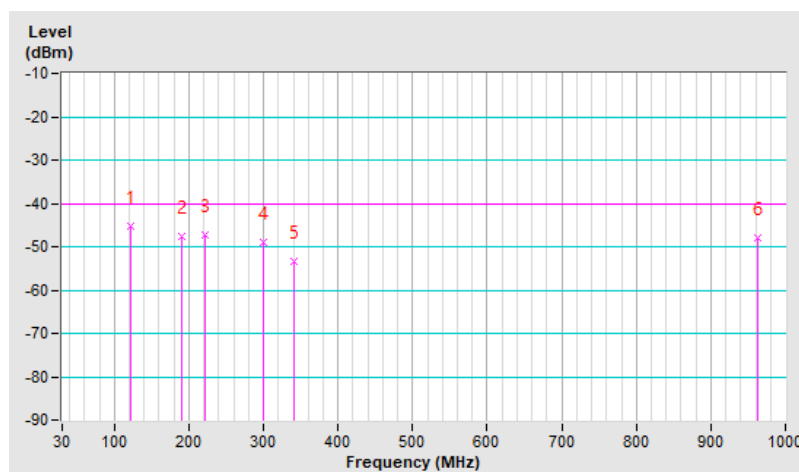
7.2.5 NR n30 SCS 15 kHz

RF Mode	NR n30 Channel Bandwidth: 10MHz	Channel	CH 462000 : 2310 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	121.18	-45.36	-40.00	-5.36	1.00 H	75	63.88	-109.24
2	191.02	-47.66	-40.00	-7.66	1.51 H	101	62.60	-110.26
3	221.09	-47.41	-40.00	-7.41	1.51 H	83	63.44	-110.85
4	300.63	-48.90	-40.00	-8.90	1.01 H	248	57.94	-106.84
5	340.40	-53.27	-40.00	-13.27	2.00 H	205	52.73	-106.00
6	962.17	-47.97	-40.00	-7.97	1.51 H	74	46.47	-94.44

Remarks:

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

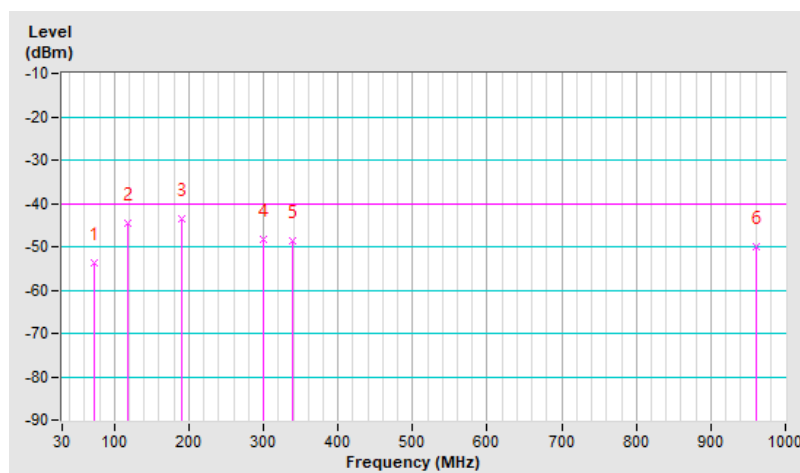


RF Mode	NR n30 Channel Bandwidth: 10MHz	Channel	CH 462000 : 2310 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

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	73.65	-53.62	-40.00	-13.62	1.00 V	359	57.02	-110.64
2	117.30	-44.45	-40.00	-4.45	1.00 V	182	65.11	-109.56
3	191.02	-43.59	-40.00	-3.59	1.00 V	105	66.67	-110.26
4	300.63	-48.32	-40.00	-8.32	1.49 V	185	58.52	-106.84
5	339.43	-48.58	-40.00	-8.58	1.49 V	201	57.42	-106.00
6	960.23	-50.09	-40.00	-10.09	1.00 V	59	44.39	-94.48

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 n7 SCS 15 kHz

RF Mode	NR n7 Channel Bandwidth: 5MHz	Channel	CH 500500 : 2502.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5005.00	-42.11	-25.00	-17.11	1.22 H	189	47.98	-90.09
2	7507.50	-41.18	-25.00	-16.18	1.78 H	167	44.26	-85.44
3	10010.00	-36.74	-25.00	-11.74	1.46 H	111	47.22	-83.96
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	5005.00	-40.96	-25.00	-15.96	1.12 V	297	49.13	-90.09
2	7507.50	-40.80	-25.00	-15.80	1.21 V	313	44.64	-85.44
3	10010.00	-36.40	-25.00	-11.40	1.35 V	348	47.56	-83.96

Remarks:

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

RF Mode	NR n7 Channel Bandwidth: 5MHz	Channel	CH 507000 : 2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5070.00	-41.42	-25.00	-16.42	1.31 H	201	48.12	-89.54
2	7605.00	-40.72	-25.00	-15.72	1.82 H	172	44.62	-85.34
3	10140.00	-36.60	-25.00	-11.60	1.52 H	120	47.52	-84.12
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	5070.00	-40.12	-25.00	-15.12	1.21 V	302	49.42	-89.54
2	7605.00	-40.42	-25.00	-15.42	1.18 V	326	44.92	-85.34
3	10140.00	-36.29	-25.00	-11.29	1.42 V	351	47.83	-84.12

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 n7 Channel Bandwidth: 5MHz	Channel	CH 513500 : 2567.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5135.00	-41.65	-25.00	-16.65	1.42 H	193	47.89	-89.54
2	7702.50	-40.76	-25.00	-15.76	1.76 H	162	44.52	-85.28
3	10270.00	-36.42	-25.00	-11.42	1.59 H	118	47.66	-84.08
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	5135.00	-40.27	-25.00	-15.27	1.33 V	298	49.27	-89.54
2	7702.50	-40.47	-25.00	-15.47	1.17 V	326	44.81	-85.28
3	10270.00	-36.39	-25.00	-11.39	1.38 V	340	47.69	-84.08

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 n7 Channel Bandwidth: 20MHz	Channel	CH 502000 : 2510 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Vincent Chen		

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	5020.00	-42.80	-25.00	-17.80	1.60 H	202	47.14	-89.94
2	7530.00	-41.03	-25.00	-16.03	1.67 H	207	44.36	-85.39
3	10040.00	-36.84	-25.00	-11.84	1.34 H	216	47.16	-84.00
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	5020.00	-40.86	-25.00	-15.86	1.13 V	283	49.08	-89.94
2	7530.00	-40.85	-25.00	-15.85	1.35 V	232	44.54	-85.39
3	10040.00	-36.79	-25.00	-11.79	1.18 V	168	47.21	-84.00

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 n7 Channel Bandwidth: 20MHz	Channel	CH 507000 : 2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Vincent Chen		

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	5070.00	-41.71	-25.00	-16.71	1.57 H	214	47.83	-89.54
2	7605.00	-41.21	-25.00	-16.21	1.58 H	171	44.13	-85.34
3	10140.00	-37.09	-25.00	-12.09	1.46 H	229	47.03	-84.12
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	5070.00	-40.52	-25.00	-15.52	1.27 V	287	49.02	-89.54
2	7605.00	-40.88	-25.00	-15.88	1.36 V	229	44.46	-85.34
3	10140.00	-36.76	-25.00	-11.76	1.21 V	286	47.36	-84.12

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 n7 Channel Bandwidth: 20MHz	Channel	CH 512000 : 2560 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Vincent Chen		

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	5120.00	-41.82	-25.00	-16.82	1.54 H	215	47.65	-89.47
2	7680.00	-41.18	-25.00	-16.18	1.46 H	227	44.15	-85.33
3	10240.00	-36.95	-25.00	-11.95	1.72 H	235	47.16	-84.11
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	5120.00	-40.43	-25.00	-15.43	1.12 V	289	49.04	-89.47
2	7680.00	-40.80	-25.00	-15.80	1.35 V	296	44.53	-85.33
3	10240.00	-36.70	-25.00	-11.70	1.14 V	332	47.41	-84.11

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 n7 Channel Bandwidth: 40MHz	Channel	CH 504000 : 2520 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5040.00	-41.65	-25.00	-16.65	1.31 H	196	48.11	-89.76
2	7560.00	-40.97	-25.00	-15.97	1.81 H	172	44.39	-85.36
3	10080.00	-36.56	-25.00	-11.56	1.59 H	120	47.51	-84.07
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	5040.00	-40.47	-25.00	-15.47	1.31 V	302	49.29	-89.76
2	7560.00	-40.55	-25.00	-15.55	1.33 V	308	44.81	-85.36
3	10080.00	-36.29	-25.00	-11.29	1.53 V	351	47.78	-84.07

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 n7 Channel Bandwidth: 40MHz	Channel	CH 507000 : 2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5070.00	-41.13	-25.00	-16.13	1.37 H	212	48.41	-89.54
2	7605.00	-40.38	-25.00	-15.38	1.92 H	181	44.96	-85.34
3	10140.00	-36.43	-25.00	-11.43	1.59 H	125	47.69	-84.12
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	5070.00	-39.83	-25.00	-14.83	1.29 V	298	49.71	-89.54
2	7605.00	-40.32	-25.00	-15.32	1.08 V	317	45.02	-85.34
3	10140.00	-36.17	-25.00	-11.17	1.44 V	347	47.95	-84.12

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 n7 Channel Bandwidth: 40MHz	Channel	CH 513500 : 2567.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	5100.00	-41.41	-25.00	-16.41	1.37 H	200	47.96	-89.37
2	7650.00	-40.69	-25.00	-15.69	1.81 H	159	44.71	-85.40
3	10200.00	-36.50	-25.00	-11.50	1.61 H	122	47.66	-84.16
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	5100.00	-39.78	-25.00	-14.78	1.31 V	302	49.59	-89.37
2	7650.00	-40.24	-25.00	-15.24	1.21 V	311	45.16	-85.40
3	10200.00	-36.35	-25.00	-11.35	1.45 V	337	47.81	-84.16

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.

7.3.2 NR n14 SCS 15 kHz

RF Mode	NR n14 Channel Bandwidth: 5MHz	Channel	CH 158100 : 790.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	1581.00	-52.28	-40.00	-12.28	1.72 H	179	46.86	-99.14
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	1581.00	-51.28	-40.00	-11.28	1.52 V	12	47.86	-99.14

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 n14 Channel Bandwidth: 5MHz	Channel	CH 158600 : 793 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	1586.00	-51.91	-40.00	-11.91	1.66 H	191	47.23	-99.14
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	1586.00	-51.08	-40.00	-11.08	1.42 V	21	48.06	-99.14

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 n14 Channel Bandwidth: 5MHz	Channel	CH 159100 : 795.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	1591.00	-52.33	-40.00	-12.33	1.62 H	189	46.81	-99.14
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	1591.00	-51.36	-40.00	-11.36	1.59 V	18	47.78	-99.14

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 n14 Channel Bandwidth: 10MHz	Channel	CH 158600 : 793 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	1586.00	-51.62	-40.00	-11.62	1.78 H	206	47.52	-99.14
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	1586.00	-50.81	-40.00	-10.81	1.59 V	35	48.33	-99.14

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.

7.3.3 NR n26 SCS 15 kHz (814 MHz ~ 824 MHz)

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 163300 : 816.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-54.40	-13.00	-41.40	1.82 H	35	46.83	-101.23
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1633.00	-53.94	-13.00	-40.94	1.72 V	203	47.29	-101.23

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 163800 : 819 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-54.24	-13.00	-41.24	1.92 H	41	46.97	-101.21
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1638.00	-53.56	-13.00	-40.56	1.79 V	218	47.65	-101.21

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 164300 : 821.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-54.51	-13.00	-41.51	1.78 H	49	46.69	-101.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-54.08	-13.00	-41.08	1.66 V	231	47.12	-101.20

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 164800 : 824 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1648.00	-53.74	-13.00	-40.74	1.80 H	40	47.45	-101.19
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1648.00	-52.99	-13.00	-39.99	1.89 V	220	48.20	-101.19

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

7.3.4 NR n26 SCS 15 kHz (824 MHz ~ 849 MHz)

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 165300 : 826.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1653.00	-54.08	-13.00	-41.08	1.77 H	46	47.12	-101.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1653.00	-53.54	-13.00	-40.54	1.62 V	221	47.66	-101.20

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$
 $+ 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 167300 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-53.96	-13.00	-40.96	1.83 H	30	47.29	-101.25
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-53.36	-13.00	-40.36	1.66 V	232	47.89	-101.25

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 5MHz	Channel	CH 169300 : 846.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.00	-54.36	-13.00	-41.36	1.71 H	43	46.93	-101.29
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.00	-53.50	-13.00	-40.50	1.59 V	213	47.79	-101.29

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	NR n26 Channel Bandwidth: 20MHz	Channel	CH 167300 : 836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-53.73	-13.00	-40.73	1.75 H	48	47.52	-101.25
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-53.02	-13.00	-40.02	1.62 V	217	48.23	-101.25

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

7.3.5 NR n30 SCS 15 kHz

RF Mode	NR n30 Channel Bandwidth: 5MHz	Channel	CH 461500 : 2307.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	4615.00	-45.14	-40.00	-5.14	1.37 H	134	45.80	-90.94
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	4615.00	-45.97	-40.00	-5.97	1.88 V	87	44.97	-90.94

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 n30 Channel Bandwidth: 5MHz	Channel	CH 462000 : 2310 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	4620.00	-44.71	-40.00	-4.71	1.44 H	129	46.23	-90.94
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	4620.00	-45.76	-40.00	-5.76	1.79 V	79	45.18	-90.94

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 n30 Channel Bandwidth: 5MHz	Channel	CH 462500 : 2312.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	4625.00	-45.31	-40.00	-5.31	1.42 H	129	45.62	-90.93
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	4625.00	-46.10	-40.00	-6.10	1.88 V	93	44.83	-90.93

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 n30 Channel Bandwidth: 10MHz	Channel	CH 462000 : 2310 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 65 % RH
Tested By	Tank 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	4620.00	-44.43	-40.00	-4.43	1.52 H	133	46.51	-90.94
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	4620.00	-45.47	-40.00	-5.47	1.86 V	88	45.47	-90.94

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.

--- END ---