

RSE MEASUREMENT REPORT

Applicant: Fibocom Wireless Inc.

FCC ID: ZMOFG360NA

IC: 21374-FG360NA

Product: 5G module

Model No.: FG360-NA

Brand Name: Fibocom

FCC Rule Part(s): Part 22.917(a); Part 27.53(a)(4), (l), (m)(4), (g);
Part 90.543(e)(3), (f)

ISED Rule(s): RSS-130 Issue 2 §4.7, RSS-132 Issue 3 §5.5,
RSS-140 Issue 6 §4.4, RSS-192 Issue 3 §8.7,
RSS-195 Issue 3 §5.6, RSS-197 Issue 3 §5.7,
RSS-199 Issue 3 §4.5, RSS-Gen Issue 5 §7.3

Test Procedure(s): ANSI C63.26: 2015

Test Date: August 31 ~ September 07, 2021

Reviewed By:

Approved By:



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2108WSU022-U1	Rev. 01	Initial Report	09-17-2021	Valid

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1. GENERAL INFORMATION

1.1. Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.2. Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: R-20025, G-20034, C-20020, T-20020
☐	Test Site - MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site - MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2 nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name (PMN)	5G module
Model No. (HVIN)	FG360-NA
Brand Name	Fibocom
IMEI	861139050014293
5G NR SA Band	n5, n7, n12, n14, n30, n77, n78
5G NR SA UL MIMO Band	n77, n78

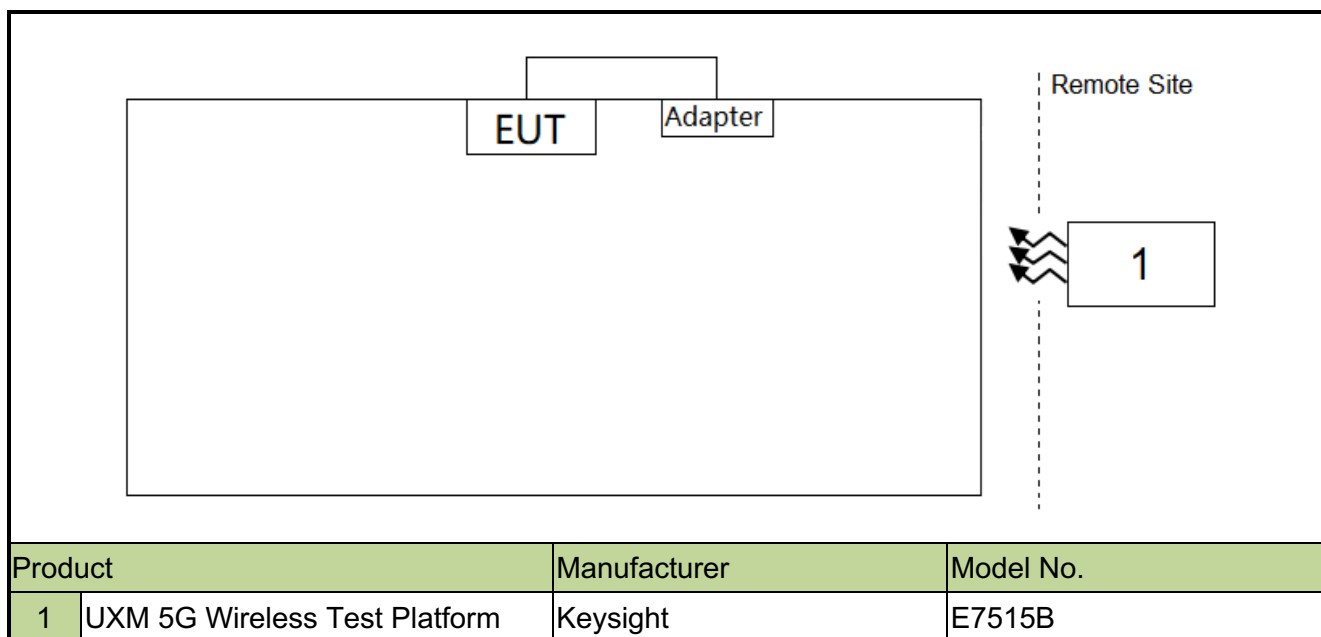
Note 1: For other features of this EUT, test report will be issued separately.

Note 2: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1.5. Radio Specification under Test

T _x Frequency Range	n5: 824 ~ 849 MHz; n7: 2500 ~ 2570 MHz; n12: 699 ~ 716 MHz; n14: 788 ~ 798 MHz; n30: 2305 ~ 2315 MHz; n77: 3700 ~ 3980MHz (FCC); n78: 3700 ~ 3800MHz (FCC); n77/n78: 3450 ~ 3700MHz (ISED)
R _x Frequency Range	n5: 869 ~ 894 MHz; n7: 2620 ~ 2690 MHz; n12: 729 ~ 746 MHz; n14: 758 ~ 768 MHz; n30: 2350 ~ 2360 MHz; n77: 3700 ~ 3980MHz (FCC); n78: 3700 ~ 3800MHz (FCC); n77/n78: 3450 ~ 3700MHz (ISED)

1.6. Configuration of Tested System



1.7. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

2. TEST EQUIPMENT CALIBRATION DATE

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2022/5/24	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2022/6/24	WZ-AC2
Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2021/12/8	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2021/10/25	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2021/11/14	WZ-AC2
Thermohygrometer	Yuhua	HTC-2	MRTSUE06178	1 year	2022/8/10	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2022/4/29	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2021/12/14	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2022/1/14	WZ-AC2
5G Test Platform	Keysight	E7515B	MRTSUE06942	1 year	2022/3/29	WZ-AC2

Software	Version	Function
EMI Software	V3	EMI Test Software

3. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions

Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

Horizontal: 9kHz ~ 300MHz: 5.04dB

300MHz ~ 1GHz: 4.95dB

1GHz ~ 40GHz: 6.40dB

Vertical: 9kHz ~ 300MHz: 5.24dB

300MHz ~ 1GHz: 6.03dB

1GHz ~ 40GHz: 6.40dB

4. TEST RESULT

4.1. Summary

NR Band	FCC Part(s)	ISED Section(s)	Test Description	Test Condition	Reference
n5	22.917(a)	RSS-132 §5.5	Transmitter Spurious Emission	Radiated	Section 4.2
n7	27.53(m)(4)	RSS-199 §4.5			
n12	27.53(g)	RSS-130 §4.7			
n14	90.543(e)(2), (f)	RSS-140 §4.4			
n30	27.53(a)(4)	RSS-195 §5.6			
n77/n78	27.53(l)(2)	RSS-192 §8.7 RSS-197 §5.7			
all bands	--	RSS-Gen	Receiver Spurious Emission	Radiated	Section 4.2

Note 1: The band n78 overlaps the entire frequency range of n77. Therefore, test data provided in this report covers the band n77 as well as n78.

Note 2: ISED shares FCC test data (except n77/n78), because the limits of ISED are the same or less restrictive as FCC.

4.2. Transmitter Unwanted Emissions Measurement

4.2.1. Test Limit

Limit for FCC:

For n5, n77, n78

Out of band emissions: 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 -13dBm. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m.

For n30

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 55.3dB μ V/m.

For n12

Out of band emissions: 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 -13dBm.

For n14

Out of band emissions: 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 -13dBm.

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(-40dBm/MHz)

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m or 55.3dB μ V/m

For n7

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 70.3dB μ V/m.

Limit for ISED:

For n5

Out of band emissions: 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 -13dBm.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m

For n30

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m.

For n12

Out of band emissions: 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 -13dBm.

For n14

Out of band emissions: 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 -13dBm.

For operations in the 758 ~ 768 MHz and 788 ~ 798 MHz bands, all emissions including harmonics in the band 1559 ~ 1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz)

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m or 55.3dB μ V/m

For n7

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 70.3dB μ V/m.

For n77/n78 (3450MHz ~ 3650MHz)

Notwithstanding the above limits in 8.7.2 and 8.7.3, the TRP (per cell) or conducted power (per single antenna connector), where applicable, for the unwanted emissions shall not exceed:

For subscriber equipment: -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band, where B is the frequency block group in MHz

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 65.3dB μ V/m.

For n77/n78 (3650MHz ~ 3700MHz)

Out of band emissions: 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.

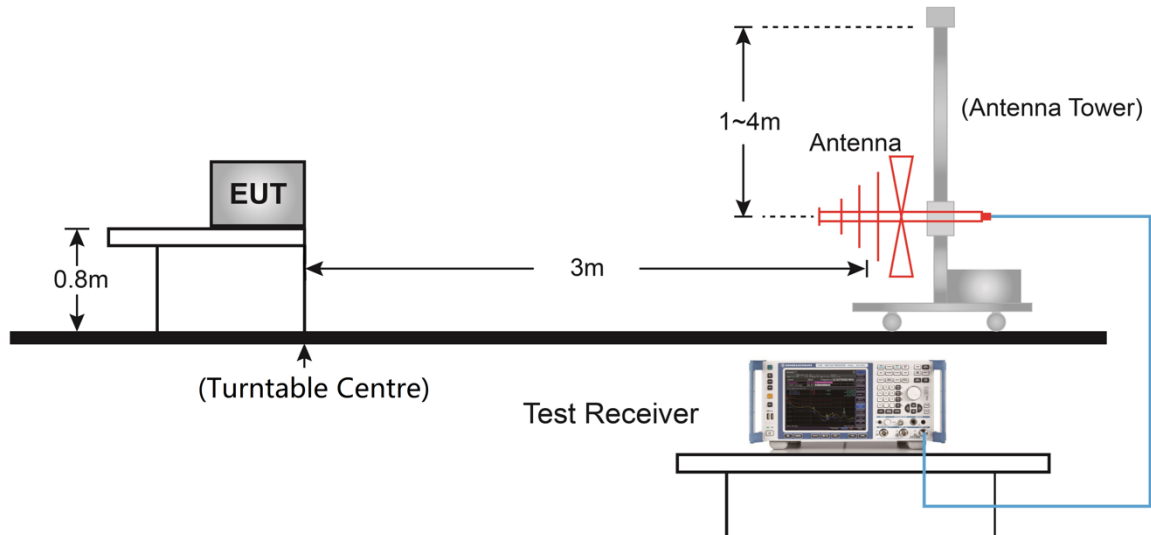
The emission limit equal to -13dBm. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m.

4.2.2.Test Procedure

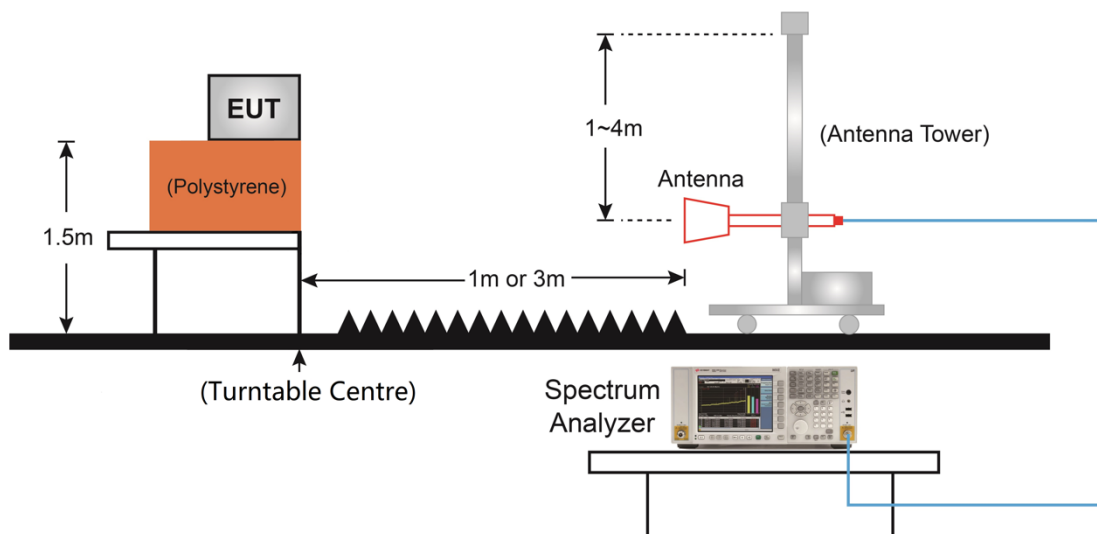
ANSI C63.26-2015 - Section 5.2.7 & 5.5

4.2.3. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.2.4. Test Result

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n5_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
509.67	4.28	25.08	29.36	82.30	-52.94	Peak	Horizontal
813.28	14.61	30.19	44.80	82.30	-37.50	Peak	Horizontal
54.74	13.49	20.16	33.65	82.30	-48.65	Peak	Vertical
811.34	8.67	30.18	38.85	82.30	-43.45	Peak	Vertical
1561.00	44.96	-4.36	40.60	82.30	-41.70	Peak	Horizontal
7298.50	35.04	12.12	47.16	82.30	-35.14	Peak	Horizontal
1561.00	44.96	-4.36	40.60	82.30	-41.70	Peak	Vertical
7298.50	35.04	12.12	47.16	82.30	-35.14	Peak	Vertical
Middle Channel							
197.33	3.60	19.00	22.60	82.30	-59.70	Peak	Horizontal
822.49	20.06	30.30	50.36	82.30	-31.94	Peak	Horizontal
32.91	16.78	17.46	34.24	82.30	-48.06	Peak	Vertical
822.01	21.93	30.29	52.22	82.30	-30.08	Peak	Vertical
2190.00	41.73	-1.07	40.66	82.30	-41.64	Peak	Horizontal
11574.00	34.39	19.09	53.48	82.30	-28.82	Peak	Horizontal
1722.50	46.56	-4.46	42.10	82.30	-40.20	Peak	Vertical
14294.00	33.35	22.76	56.11	82.30	-26.19	Peak	Vertical
High Channel							
677.96	2.91	28.54	31.45	82.30	-50.85	Peak	Horizontal
814.25	15.62	30.20	45.82	82.30	-36.48	Peak	Horizontal
32.43	16.47	17.34	33.81	82.30	-48.49	Peak	Vertical
814.73	15.32	30.20	45.52	82.30	-36.78	Peak	Vertical
1722.50	46.56	-4.46	42.10	82.30	-40.20	Peak	Horizontal
14294.00	33.35	22.76	56.11	82.30	-26.19	Peak	Horizontal
1408.00	50.91	-3.80	47.11	82.30	-35.19	Peak	Vertical
14302.50	32.71	22.68	55.39	82.30	-26.91	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n7_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
7579.00	34.29	12.33	46.62	70.30	-23.68	Peak	Horizontal
13639.50	33.26	21.47	54.73	70.30	-15.57	Peak	Horizontal
12186.00	33.21	19.42	52.63	70.30	-17.67	Peak	Vertical
14710.50	33.77	22.35	56.12	70.30	-14.18	Peak	Vertical
Middle Channel							
56.19	2.23	19.97	22.20	70.30	-48.10	Peak	Horizontal
984.97	2.97	32.05	35.02	70.30	-35.28	Peak	Horizontal
30.97	16.44	16.97	33.41	70.30	-36.89	Peak	Vertical
55.71	13.92	20.03	33.95	70.30	-36.35	Peak	Vertical
9865.50	35.97	15.48	51.45	70.30	-18.85	Peak	Horizontal
14387.50	33.38	22.09	55.47	70.30	-14.83	Peak	Horizontal
9806.00	35.49	15.33	50.82	70.30	-19.48	Peak	Vertical
14319.50	32.66	22.50	55.16	70.30	-15.14	Peak	Vertical
High Channel							
10868.50	35.11	17.79	52.90	70.30	-17.40	Peak	Horizontal
14353.50	34.15	22.37	56.52	70.30	-13.78	Peak	Horizontal
9848.50	35.40	15.36	50.76	70.30	-19.54	Peak	Vertical
13792.50	32.30	21.66	53.96	70.30	-16.34	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n12_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
711.91	22.03	28.88	50.91	82.30	-31.39	Peak	Horizontal
967.99	3.64	31.65	35.29	82.30	-47.01	Peak	Horizontal
36.79	14.50	18.44	32.94	82.30	-49.36	Peak	Vertical
716.76	31.28	28.98	60.26	82.30	-22.04	Peak	Vertical
1569.50	38.45	-4.30	34.15	82.30	-48.15	Peak	Horizontal
14464.00	33.93	21.61	55.54	82.30	-26.76	Peak	Horizontal
1569.50	38.45	-4.30	34.15	82.30	-48.15	Peak	Vertical
14464.00	33.93	21.61	55.54	82.30	-26.76	Peak	Vertical
Middle Channel							
479.60	4.21	24.65	28.86	82.30	-53.44	Peak	Horizontal
969.45	3.25	31.69	34.94	82.30	-47.36	Peak	Horizontal
32.91	15.96	17.46	33.42	82.30	-48.88	Peak	Vertical
913.67	5.01	31.55	36.56	82.30	-45.74	Peak	Vertical
1561.00	43.12	-4.36	38.76	82.30	-43.54	Peak	Horizontal
14319.50	33.65	22.50	56.15	82.30	-26.15	Peak	Horizontal
1561.00	50.39	-4.36	46.03	82.30	-36.27	Peak	Vertical
14821.00	34.40	22.43	56.83	82.30	-25.47	Peak	Vertical
High Channel							
197.33	4.10	19.00	23.10	82.30	-59.20	Peak	Horizontal
868.08	2.69	31.26	33.95	82.30	-48.35	Peak	Horizontal
31.46	18.18	17.09	35.27	82.30	-47.03	Peak	Vertical
917.07	3.23	31.57	34.80	82.30	-47.50	Peak	Vertical
1561.00	44.85	-4.36	40.49	82.30	-41.81	Peak	Horizontal
14302.50	33.02	22.68	55.70	82.30	-26.60	Peak	Horizontal
1561.00	43.91	-4.36	39.55	82.30	-42.75	Peak	Vertical
14302.50	33.37	22.68	56.05	82.30	-26.25	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n14_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
143.01	5.20	17.64	22.84	82.30	-59.46	Peak	Horizontal
207.51	12.24	14.38	26.62	82.30	-55.68	Peak	Horizontal
42.61	10.21	17.60	27.81	82.30	-54.49	Peak	Vertical
151.25	4.82	18.02	22.84	82.30	-59.46	Peak	Vertical
1561.00	42.62	-4.36	38.26	55.30	-17.04	Peak	Horizontal
14294.00	32.19	22.76	54.95	82.30	-27.35	Peak	Horizontal
1561.00	49.58	-4.36	45.22	55.30	-10.08	Peak	Vertical
14702.00	33.21	22.36	55.57	82.30	-26.73	Peak	Vertical
Middle Channel							
147.37	4.60	17.92	22.52	82.30	-59.78	Peak	Horizontal
197.33	10.01	15.01	25.02	82.30	-57.28	Peak	Horizontal
42.13	9.64	17.57	27.21	82.30	-55.09	Peak	Vertical
151.25	4.70	18.02	22.72	82.30	-59.58	Peak	Vertical
1561.00	42.95	-4.36	38.59	55.30	-16.71	Peak	Horizontal
14353.50	33.10	22.37	55.47	82.30	-26.83	Peak	Horizontal
1561.00	50.49	-4.36	46.13	55.30	-9.17	Peak	Vertical
14302.50	32.84	22.68	55.52	82.30	-26.78	Peak	Vertical
High Channel							
207.51	13.32	14.38	27.70	82.30	-54.60	Peak	Horizontal
376.78	5.07	20.24	25.31	82.30	-56.99	Peak	Horizontal
44.07	6.56	17.72	24.28	82.30	-58.02	Peak	Vertical
52.31	5.45	17.98	23.43	82.30	-58.87	Peak	Vertical
1595.00	40.26	-4.30	35.96	55.30	-19.34	Peak	Horizontal
14294.00	32.81	22.76	55.57	82.30	-26.73	Peak	Horizontal
1561.00	51.13	-4.36	46.77	55.30	-8.53	Peak	Vertical
14251.50	32.64	22.46	55.10	82.30	-27.20	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n30_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
4731.50	37.39	4.21	41.60	55.30	-13.70	Peak	Horizontal
7120.00	35.13	11.88	47.01	55.30	-8.29	Peak	Horizontal
4774.00	36.75	4.48	41.23	55.30	-14.07	Peak	Vertical
7970.00	36.19	12.44	48.63	55.30	-6.67	Peak	Vertical
Middle Channel							
197.33	3.33	19.00	22.33	55.30	-32.97	Peak	Horizontal
882.63	3.13	31.31	34.44	55.30	-20.86	Peak	Horizontal
31.46	17.66	17.09	34.75	55.30	-20.55	Peak	Vertical
987.88	3.31	32.07	35.38	55.30	-19.92	Peak	Vertical
6610.00	37.20	9.16	46.36	55.30	-8.94	Peak	Horizontal
7995.50	35.32	12.68	48.00	55.30	-7.30	Peak	Horizontal
6601.50	36.03	9.07	45.10	55.30	-10.20	Peak	Vertical
7970.00	35.85	12.44	48.29	55.30	-7.01	Peak	Vertical
High Channel							
5046.00	37.29	4.76	42.05	55.30	-13.25	Peak	Horizontal
6601.50	36.54	9.07	45.61	55.30	-9.69	Peak	Horizontal
5904.50	36.15	6.38	42.53	55.30	-12.77	Peak	Vertical
7970.00	36.13	12.44	48.57	55.30	-6.73	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_SA (3700 ~ 3980MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
9848.50	35.71	15.36	51.07	82.30	-31.23	Peak	Horizontal
14736.00	33.80	22.53	56.33	82.30	-25.97	Peak	Horizontal
8735.00	36.02	13.80	49.82	82.30	-32.48	Peak	Vertical
14353.50	32.61	22.37	54.98	82.30	-27.32	Peak	Vertical
Middle Channel							
192.48	4.25	18.21	22.46	82.30	-59.84	Peak	Horizontal
882.63	2.42	31.31	33.73	82.30	-48.57	Peak	Horizontal
31.94	19.23	17.21	36.44	82.30	-45.86	Peak	Vertical
948.11	3.06	31.40	34.46	82.30	-47.84	Peak	Vertical
9823.00	35.42	15.29	50.71	82.30	-31.59	Peak	Horizontal
14311.00	32.70	22.56	55.26	82.30	-27.04	Peak	Horizontal
9797.50	35.14	15.29	50.43	82.30	-31.87	Peak	Vertical
14880.50	33.16	21.62	54.78	82.30	-27.52	Peak	Vertical
High Channel							
9806.00	34.90	15.33	50.23	82.30	-32.07	Peak	Horizontal
14319.50	32.63	22.50	55.13	82.30	-27.17	Peak	Horizontal
9763.50	35.13	15.05	50.18	82.30	-32.12	Peak	Vertical
14260.00	32.64	22.55	55.19	82.30	-27.11	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_UL MIMO (3700 ~ 3980MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
7630.00	35.30	12.02	47.32	82.30	-34.98	Peak	Horizontal
11514.50	34.02	18.56	52.58	82.30	-29.72	Peak	Horizontal
9840.00	35.47	15.31	50.78	82.30	-31.52	Peak	Vertical
14829.50	33.06	22.37	55.43	82.30	-26.87	Peak	Vertical
Middle Channel							
58.13	2.28	19.70	21.98	82.30	-60.32	Peak	Horizontal
862.26	3.06	31.23	34.29	82.30	-48.01	Peak	Horizontal
39.22	18.97	19.08	38.05	82.30	-44.25	Peak	Vertical
58.62	11.63	19.58	31.21	82.30	-51.09	Peak	Vertical
9780.50	36.25	15.17	51.42	82.30	-30.88	Peak	Horizontal
15356.50	33.54	21.85	55.39	82.30	-26.91	Peak	Horizontal
9423.50	35.42	15.22	50.64	82.30	-31.66	Peak	Vertical
14260.00	32.87	22.55	55.42	82.30	-26.88	Peak	Vertical
High Channel							
8735.00	35.20	13.80	49.00	82.30	-33.30	Peak	Horizontal
14302.50	33.48	22.68	56.16	82.30	-26.14	Peak	Horizontal
10928.00	34.71	17.94	52.65	82.30	-29.65	Peak	Vertical
14200.50	34.15	22.22	56.37	82.30	-25.93	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_SA (3450 ~ 3650MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
7086.00	34.71	11.54	46.25	65.30	-19.05	Peak	Horizontal
11633.50	33.84	19.46	53.30	65.30	-12.00	Peak	Horizontal
6457.00	38.61	8.68	47.29	65.30	-18.01	Peak	Vertical
9857.00	35.39	15.42	50.81	65.30	-14.49	Peak	Vertical
Middle Channel							
197.33	4.43	19.00	23.43	65.30	-41.87	Peak	Horizontal
938.89	2.81	31.33	34.14	65.30	-31.16	Peak	Horizontal
31.46	17.21	17.09	34.30	65.30	-31.00	Peak	Vertical
866.63	2.87	31.26	34.13	65.30	-31.17	Peak	Vertical
9840.00	35.72	15.31	51.03	65.30	-14.27	Peak	Horizontal
12662.00	32.82	20.20	53.02	65.30	-12.28	Peak	Horizontal
9780.50	34.21	15.17	49.38	65.30	-15.92	Peak	Vertical
10911.00	33.79	17.91	51.70	65.30	-13.60	Peak	Vertical
High Channel							
9797.50	36.07	15.29	51.36	65.30	-13.94	Peak	Horizontal
11727.00	32.77	19.45	52.22	65.30	-13.08	Peak	Horizontal
9814.50	35.95	15.31	51.26	65.30	-14.04	Peak	Vertical
10826.00	34.07	17.73	51.80	65.30	-13.50	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) -Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_UL MIMO (3450 ~ 3650MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
6414.50	36.64	8.25	44.89	65.30	-20.41	Peak	Horizontal
11285.00	33.57	19.03	52.60	65.30	-12.70	Peak	Horizontal
6440.00	39.64	8.54	48.18	65.30	-17.12	Peak	Vertical
9857.00	35.07	15.42	50.49	65.30	-14.81	Peak	Vertical
Middle Channel							
59.10	2.43	19.47	21.90	65.30	-43.40	Peak	Horizontal
593.09	3.70	27.38	31.08	65.30	-34.22	Peak	Horizontal
38.73	16.80	18.95	35.75	65.30	-29.55	Peak	Vertical
58.62	13.44	19.58	33.02	65.30	-32.28	Peak	Vertical
9806.00	35.21	15.33	50.54	65.30	-14.76	Peak	Horizontal
12177.50	33.66	19.40	53.06	65.30	-12.24	Peak	Horizontal
8650.00	35.74	13.49	49.23	65.30	-16.07	Peak	Vertical
11565.50	33.41	18.92	52.33	65.30	-12.97	Peak	Vertical
High Channel							
9806.00	35.71	15.33	51.04	65.30	-14.26	Peak	Horizontal
14243.00	33.74	22.38	56.12	65.30	-9.18	Peak	Horizontal
7298.50	37.18	12.12	49.30	65.30	-16.00	Peak	Vertical
10800.50	34.57	17.42	51.99	65.30	-13.31	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_SA (3650 ~ 3700MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
9865.50	35.23	15.48	50.71	82.30	-31.59	Peak	Horizontal
14328.00	33.14	22.40	55.54	82.30	-26.76	Peak	Horizontal
9780.50	36.30	15.17	51.47	82.30	-30.83	Peak	Vertical
14285.50	32.60	22.61	55.21	82.30	-27.09	Peak	Vertical
Middle Channel							
197.33	3.67	19.00	22.67	82.30	-59.63	Peak	Horizontal
860.81	2.69	31.22	33.91	82.30	-48.39	Peak	Horizontal
197.33	3.67	19.00	22.67	82.30	-59.63	Peak	Vertical
860.81	2.69	31.22	33.91	82.30	-48.39	Peak	Vertical
9814.50	36.38	15.31	51.69	82.30	-30.61	Peak	Horizontal
14319.50	32.26	22.50	54.76	82.30	-27.54	Peak	Horizontal
9831.50	35.32	15.30	50.62	82.30	-31.68	Peak	Vertical
14362.00	32.31	22.33	54.64	82.30	-27.66	Peak	Vertical
High Channel							
9848.50	35.89	15.36	51.25	82.30	-31.05	Peak	Horizontal
14379.00	33.27	22.26	55.53	82.30	-26.77	Peak	Horizontal
10868.50	35.14	17.79	52.93	82.30	-29.37	Peak	Vertical
14719.00	32.78	22.49	55.27	82.30	-27.03	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_UL MIMO (3650 ~ 3700MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
9797.50	36.62	15.29	51.91	82.30	-30.39	Peak	Horizontal
14795.50	33.12	22.07	55.19	82.30	-27.11	Peak	Horizontal
9109.00	34.54	14.95	49.49	82.30	-32.81	Peak	Vertical
14693.50	33.02	22.20	55.22	82.30	-27.08	Peak	Vertical
Middle Channel							
328.76	9.17	21.77	30.94	82.30	-51.36	Peak	Horizontal
804.06	5.38	30.15	35.53	82.30	-46.77	Peak	Horizontal
34.37	22.08	17.83	39.91	82.30	-42.39	Peak	Vertical
41.64	14.91	19.73	34.64	82.30	-47.66	Peak	Vertical
9406.50	34.85	15.26	50.11	82.30	-32.19	Peak	Horizontal
14328.00	32.84	22.40	55.24	82.30	-27.06	Peak	Horizontal
9797.50	36.22	15.29	51.51	82.30	-30.79	Peak	Vertical
14863.50	34.40	21.73	56.13	82.30	-26.17	Peak	Vertical
High Channel							
8743.50	35.52	13.95	49.47	82.30	-32.83	Peak	Horizontal
14353.50	33.44	22.37	55.81	82.30	-26.49	Peak	Horizontal
9789.00	35.69	15.25	50.94	82.30	-31.36	Peak	Vertical
14736.00	33.00	22.53	55.53	82.30	-26.77	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)							

4.3. Receiver Spurious Emissions Measurements

4.3.1. Test Limit

Receiver spurious emissions shall comply with the limits specified in RSS-Gen.

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 metres) ^{Note 1}
30 ~ 88	100
88 ~ 216	150
216 ~ 960	200
Above 960	500

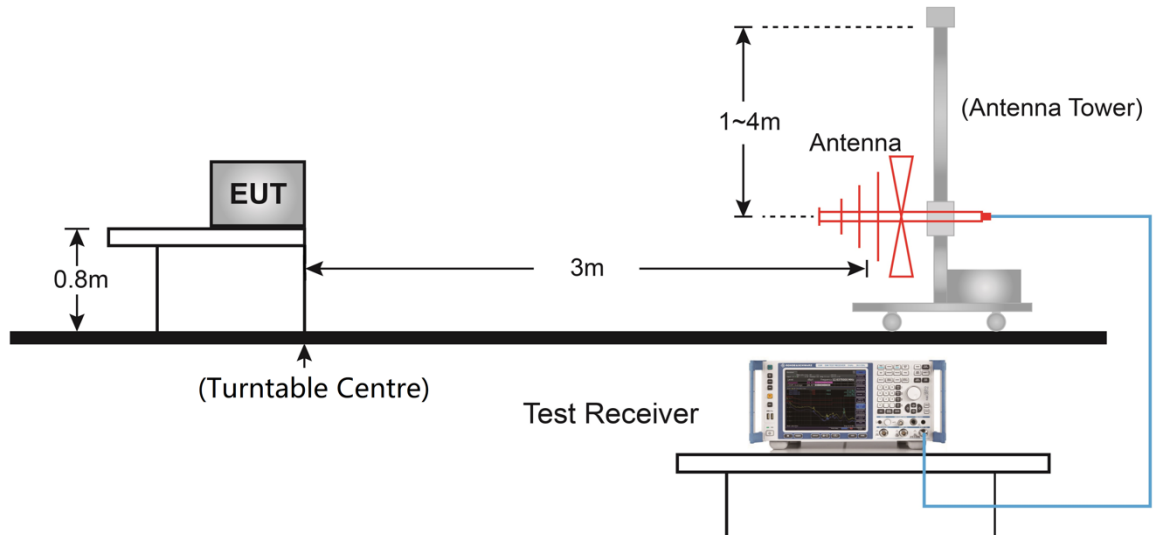
Note 1: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with RSS-Gen.

4.3.2. Test Procedure

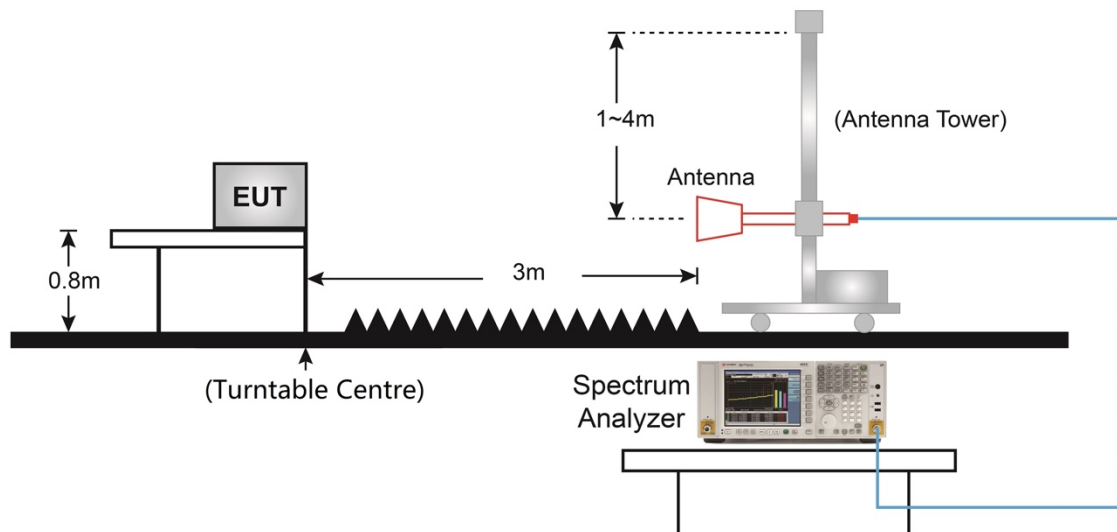
ANSI C63.4-2014 - Section 8.3

4.3.3. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3.4. Test Result

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n5_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
578.05	4.10	26.76	30.86	46.00	-15.14	Peak	Horizontal
900.09	3.10	31.45	34.55	46.00	-11.45	Peak	Horizontal
32.43	16.32	17.34	33.66	40.00	-6.34	Peak	Vertical
36.31	14.46	18.32	32.78	40.00	-7.22	Peak	Vertical
1561.00	48.11	-4.36	43.75	74.00	-30.25	Peak	Horizontal
1722.50	50.30	-4.46	45.84	74.00	-28.16	Peak	Horizontal
1561.00	49.93	-4.36	45.57	74.00	-28.43	Peak	Vertical
1722.50	52.14	-4.46	47.68	74.00	-26.32	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n7_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
190.54	6.63	17.89	24.52	43.50	-18.98	Peak	Horizontal
934.53	3.90	31.33	35.23	46.00	-10.77	Peak	Horizontal
32.91	16.49	17.46	33.95	40.00	-6.05	Peak	Vertical
54.25	10.81	20.22	31.03	40.00	-8.97	Peak	Vertical
1408.00	47.13	-3.80	43.33	74.00	-30.67	Peak	Horizontal
1722.50	49.93	-4.46	45.47	74.00	-28.53	Peak	Horizontal
1561.00	49.82	-4.36	45.46	74.00	-28.54	Peak	Vertical
1722.50	51.68	-4.46	47.22	74.00	-26.78	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n12_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
195.87	4.33	18.77	23.10	43.50	-20.40	Peak	Horizontal
907.37	3.19	31.41	34.60	46.00	-11.40	Peak	Horizontal
32.91	16.17	17.46	33.63	40.00	-6.37	Peak	Vertical
870.02	2.11	31.25	33.36	46.00	-12.64	Peak	Vertical
1408.00	47.97	-3.80	44.17	74.00	-29.83	Peak	Horizontal
1722.50	50.22	-4.46	45.76	74.00	-28.24	Peak	Horizontal
1561.00	50.58	-4.36	46.22	74.00	-27.78	Peak	Vertical
1722.50	52.19	-4.46	47.73	74.00	-26.27	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n14_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
38.73	7.22	17.27	24.49	40.00	-15.51	Peak	Horizontal
44.55	6.56	17.74	24.30	40.00	-15.70	Peak	Horizontal
38.73	3.36	17.27	20.63	40.00	-19.37	Peak	Vertical
207.51	9.79	14.38	24.17	43.50	-19.33	Peak	Vertical
1408.00	47.63	-3.80	43.83	74.00	-30.17	Peak	Horizontal
1722.50	50.18	-4.46	45.72	74.00	-28.28	Peak	Horizontal
1561.00	49.66	-4.36	45.30	74.00	-28.70	Peak	Vertical
1722.50	51.84	-4.46	47.38	74.00	-26.62	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n30_SA	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
194.90	6.83	18.61	25.44	43.50	-18.06	Peak	Horizontal
891.36	2.92	31.31	34.23	46.00	-11.77	Peak	Horizontal
32.60	11.90	17.38	29.28	40.00	-10.72	Quasi-peak	Vertical
36.79	13.14	18.44	31.58	40.00	-8.42	Peak	Vertical
1561.00	47.75	-4.36	43.39	74.00	-30.61	Peak	Horizontal
1722.50	50.01	-4.46	45.55	74.00	-28.45	Peak	Horizontal
1561.00	50.53	-4.36	46.17	74.00	-27.83	Peak	Vertical
1722.50	51.58	-4.46	47.12	74.00	-26.88	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_SA (3450 ~ 3650MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
750.23	2.74	29.72	32.46	46.00	-13.54	Peak	Horizontal
915.13	3.00	31.58	34.58	46.00	-11.42	Peak	Horizontal
32.91	15.17	17.46	32.63	40.00	-7.37	Peak	Vertical
954.41	3.08	31.57	34.65	46.00	-11.35	Peak	Vertical
1408.00	50.15	-3.80	46.35	74.00	-27.65	Peak	Horizontal
1722.50	45.18	-4.46	40.72	74.00	-33.28	Peak	Horizontal
1408.00	51.44	-3.80	47.64	74.00	-26.36	Peak	Vertical
1722.50	51.82	-4.46	47.36	74.00	-26.64	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_UL MIMO (3450 ~ 3650MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
207.51	10.35	18.28	28.63	43.50	-14.87	Peak	Horizontal
409.76	6.76	23.54	30.30	46.00	-15.70	Peak	Horizontal
36.74	10.25	18.43	28.68	40.00	-11.32	Quasi-peak	Vertical
57.16	11.43	19.85	31.28	40.00	-8.72	Peak	Vertical
1408.00	50.25	-3.80	46.45	74.00	-27.55	Peak	Horizontal
1722.50	45.83	-4.46	41.37	74.00	-32.63	Peak	Horizontal
1408.00	51.53	-3.80	47.73	74.00	-26.27	Peak	Vertical
1722.50	52.17	-4.46	47.71	74.00	-26.29	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_SA (3650 ~ 3700MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
721.13	3.68	29.06	32.74	46.00	-13.26	Peak	Horizontal
915.13	2.98	31.58	34.56	46.00	-11.44	Peak	Horizontal
31.46	16.09	17.09	33.18	40.00	-6.82	Peak	Vertical
54.25	12.11	20.22	32.33	40.00	-7.67	Peak	Vertical
1408.00	49.56	-3.80	45.76	74.00	-28.24	Peak	Horizontal
4128.00	38.70	1.85	40.55	74.00	-33.45	Peak	Horizontal
1408.00	50.63	-3.80	46.83	74.00	-27.17	Peak	Vertical
5071.50	38.40	4.87	43.27	74.00	-30.73	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Date	2021/08/31 ~ 2021/09/06
Test Band	n77/n78_UL MIMO (3650 ~ 3700MHz)	Test Engineer	Lucas Wang

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
319.55	11.17	21.37	32.54	46.00	-13.46	Peak	Horizontal
859.84	4.48	31.21	35.69	46.00	-10.31	Peak	Horizontal
33.02	11.14	17.49	28.63	40.00	-11.37	Quasi-peak	Vertical
59.59	11.32	19.35	30.67	40.00	-9.33	Peak	Vertical
1408.00	50.30	-3.80	46.50	74.00	-27.50	Peak	Horizontal
3176.00	40.46	-0.68	39.78	74.00	-34.22	Peak	Horizontal
1408.00	50.44	-3.80	46.64	74.00	-27.36	Peak	Vertical
1722.50	46.55	-4.46	42.09	74.00	-31.91	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The End