



FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL
FCC ID : ZMOFM350GL
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Sep. 27, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG051802-04C	Rev. 01	Initial issue of report	Oct. 09, 2021



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (5G NR n5) (5G NR n2) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 41.45 dB at 7484.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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 General Description

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 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Fibocom
Model Name	FM350-GL
FCC ID	ZMOFM350GL
IMEI Code	Radiation : 862146050150950
HW Version	V1.0.6
SW Version	81600.0000.00.19.16.97
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n66 : 2110 MHz~ 2200 MHz
Uplink CA Bands	n2A-n5A, n5A-n2A, n5A-n66A, n66A-n5A
SCS	15KHz, 30KHz
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note: The test items of inter band CA were cover by 5G NR single carrier, only conduced Power/RSE were verified.



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.




2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

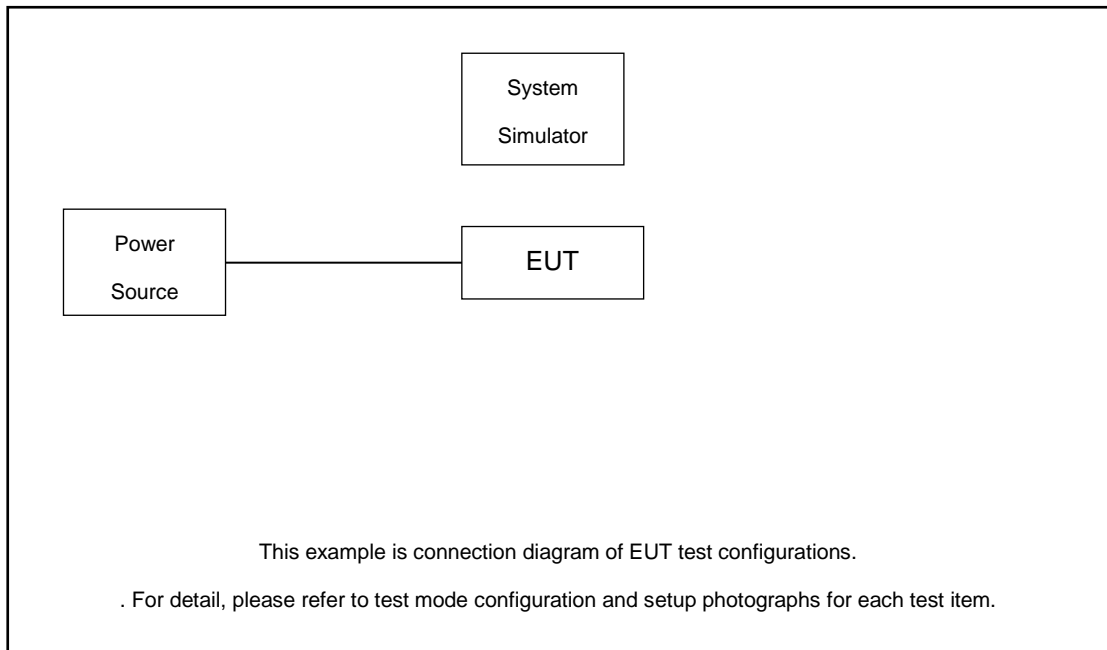
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	Band	Bandwidth (MHz)												Modulation					RB #		Test Channel		
		40+20	20+40	20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n2A-n5A	-	-	v										v	v				v	v	v	v	v
	n5A-n2A	-	-	v										v	v				v	v	v	v	v
	n5A-n66A	-	v											v	v				v	v	v	v	v
	n66A-n5A	v	-											v	v				v	v	v	v	v
Radiated Spurious Emission	n2A-n5A	Worst Case																				v	
	n5A-n2A	Worst Case																				v	
	n5A-n66A	Worst Case																				v	
	n66A-n5A	Worst Case																				v	
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) have been tested, and only the worst test results of BPSK & QPSK are shown in the report . The device supports all BWs combination for Inter Band CA follow 3GPP, maximum bandwidth is shown in the report in accordance with the maximum power. 																						

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Keysight	UXM E7515B	Fcc DoC	N/A	Unshielded, 1.5 m
2.	Test Jig	N/A	N/A	N/A	N/A	N/A
3.	Adapter	N/A	N/A	N/A	N/A	N/A



2.4 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

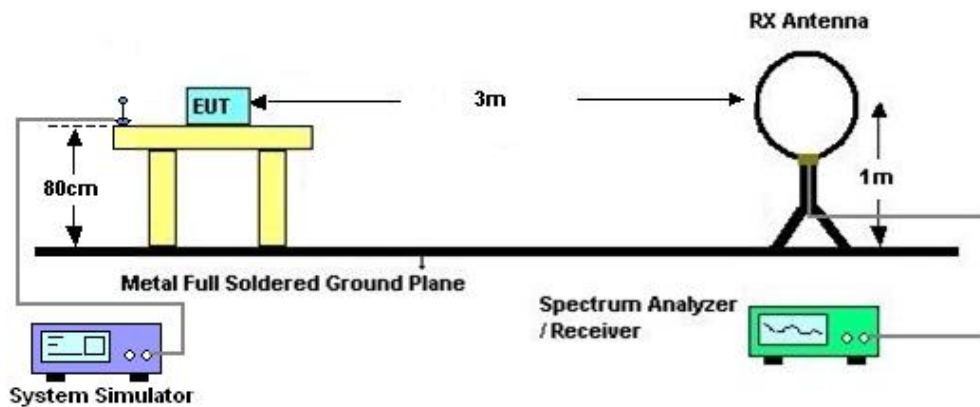
4 Radiated Test Items

4.1 Measuring Instruments

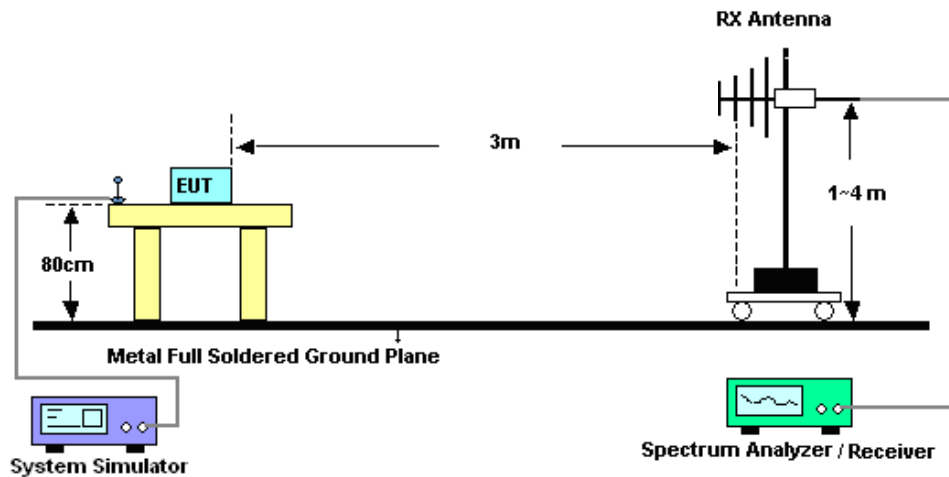
See list of measuring instruments of this test report.

4.2 Test Setup

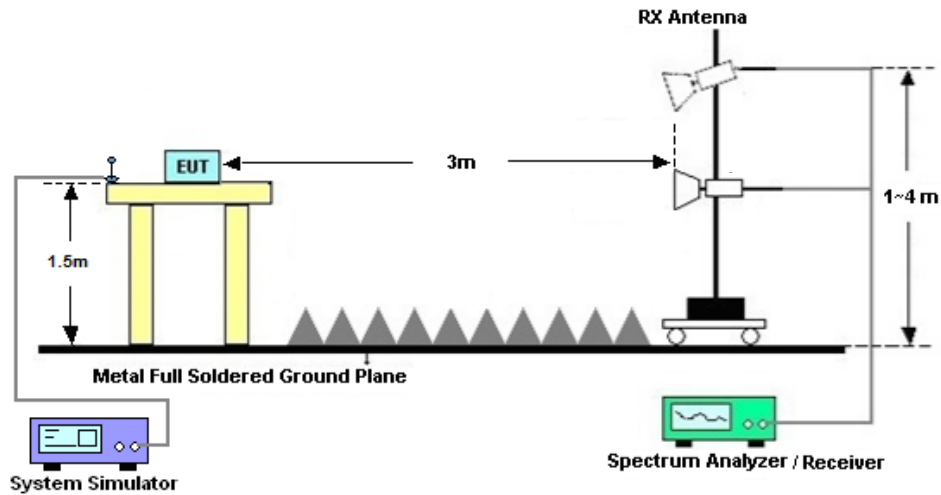
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Sep. 27, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 13, 2021	Sep. 27, 2021	Jul. 12, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Sep. 27, 2021	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2021	Sep. 27, 2021	Jul. 14, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Sep. 27, 2021	Jul. 24, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 13, 2021	Sep. 27, 2021	Jul. 12, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11 2021	Sep. 27, 2021	Apr. 10, 2022	Radiation (03CH02-SZ)
LF Amplifier	Bur35407geon	BPA-530	102211	0.01~3000Mhz	Jul. 13, 2021	Sep. 27, 2021	Jul. 12, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 16, 2020	Sep. 27, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Sep. 27, 2021	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Sep. 27, 2021	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Sep. 27, 2021	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

SCS 15KHz

CA_n2A-n5A								
Combination 20MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
372000	166800	BPSK	1	1	1	1	19.12	19.63
			1	104	1	104	18.86	20.14
			50	25	50	25	19.23	19.80
		QPSK	1	1	1	1	19.17	19.52
			1	104	1	104	18.89	19.73
			50	25	50	25	19.18	20.15
376000	167300	BPSK	1	1	1	1	18.72	20.19
			1	104	1	104	18.87	19.79
			50	25	50	25	19.05	20.31
		QPSK	1	1	1	1	19.01	20.05
			1	104	1	104	18.82	20.26
			50	25	50	25	19.08	20.32
380000	167800	BPSK	1	1	1	1	18.74	19.71
			1	104	1	104	18.33	20.06
			50	25	50	25	18.61	20.25
		QPSK	1	1	1	1	18.76	19.62
			1	104	1	104	18.23	20.22
			50	25	50	25	18.66	20.27



CA_n5A-n2A								
Combination 20MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
166800	372000	BPSK	1	1	1	1	20.24	20.08
			1	104	1	104	20.40	19.92
			50	25	50	25	20.51	19.94
		QPSK	1	1	1	1	20.29	19.84
			1	104	1	104	20.39	19.90
			50	25	50	25	20.41	19.99
167300	376000	BPSK	1	1	1	1	20.47	20.24
			1	104	1	104	20.62	20.53
			50	25	50	25	20.63	20.46
		QPSK	1	1	1	1	20.44	20.33
			1	104	1	104	20.58	20.45
			50	25	50	25	20.64	20.37
167800	380000	BPSK	1	1	1	1	20.33	20.02
			1	104	1	104	20.49	20.12
			50	25	50	25	20.60	20.49
		QPSK	1	1	1	1	20.34	19.88
			1	104	1	104	20.35	20.11
			50	25	50	25	20.61	20.47



CA_n5A-n66A								
Combination 20MHz+40MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
166800	346000	BPSK	1	1	1	1	20.36	19.67
			1	104	1	214	20.55	19.52
			50	25	108	54	20.49	19.80
		QPSK	1	1	1	1	20.24	19.71
			1	104	1	214	20.50	19.62
			50	25	108	54	20.53	19.96
167300	349000	BPSK	1	1	1	1	20.44	19.62
			1	104	1	214	20.35	19.71
			50	25	108	54	20.37	19.62
		QPSK	1	1	1	1	20.34	19.84
			1	104	1	214	20.41	19.81
			50	25	108	54	20.49	19.76
167800	352000	BPSK	1	1	1	1	20.42	19.72
			1	104	1	214	20.38	19.81
			50	25	108	54	20.55	19.89
		QPSK	1	1	1	1	20.43	19.65
			1	104	1	214	20.51	19.72
			50	25	108	54	20.62	20.05



CA_n66A-n5A								
Combination 40MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
346000	166800	BPSK	1	1	1	1	19.82	20.04
			1	214	1	104	19.41	19.67
			108	54	50	25	20.33	19.78
		QPSK	1	1	1	1	19.79	19.94
			1	214	1	104	19.34	19.70
			108	54	50	25	20.27	20.21
349000	167300	BPSK	1	1	1	1	19.41	20.08
			1	214	1	104	19.52	20.11
			108	54	50	25	20.25	20.32
		QPSK	1	1	1	1	19.34	20.12
			1	214	1	104	19.63	20.08
			108	54	50	25	20.32	20.29
352000	167800	BPSK	1	1	1	1	19.63	20.14
			1	214	1	104	19.72	20.20
			108	54	50	25	20.20	20.30
		QPSK	1	1	1	1	19.62	20.16
			1	214	1	104	19.64	20.24
			108	54	50	25	20.18	20.21



SCS 30KHz

CA_n2A-n5A								
Combination 20MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
372000	166800	BPSK	1	1	1	1	21.74	21.41
			1	49	1	49	19.42	20.66
			25	12	25	12	21.31	21.65
		QPSK	1	1	1	1	21.64	21.02
			1	49	1	49	21.33	21.96
			25	12	25	12	22.19	22.10
376000	167300	BPSK	1	1	1	1	21.26	21.71
			1	49	1	49	22.08	21.51
			25	12	25	12	21.88	21.71
		QPSK	1	1	1	1	20.83	20.83
			1	49	1	49	21.71	21.60
			25	12	25	12	21.67	22.21
380000	167800	BPSK	1	1	1	1	21.15	20.01
			1	49	1	49	20.95	19.58
			25	12	25	12	22.10	21.79
		QPSK	1	1	1	1	20.88	21.02
			1	49	1	49	20.95	19.30
			25	12	25	12	22.35	21.38



CA_n5A-n2A								
Combination 20MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
166800	372000	BPSK	1	1	1	1	20.58	20.26
			1	49	1	49	21.76	21.35
			25	12	25	12	21.00	21.92
		QPSK	1	1	1	1	21.58	21.13
			1	49	1	49	21.33	21.77
			25	12	25	12	21.76	20.69
167300	376000	BPSK	1	1	1	1	20.41	21.13
			1	49	1	49	21.70	21.44
			25	12	25	12	20.42	20.42
		QPSK	1	1	1	1	21.80	20.14
			1	49	1	49	22.44	21.31
			25	12	25	12	20.34	20.26
167800	380000	BPSK	1	1	1	1	21.77	22.13
			1	49	1	49	22.14	21.59
			25	12	25	12	21.07	22.33
		QPSK	1	1	1	1	21.46	20.64
			1	49	1	49	21.97	21.84
			25	12	25	12	21.35	21.51



CA_n5A-n66A								
Combination 20MHz+40MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
166800	346000	BPSK	1	1	1	1	19.09	20.53
			1	49	1	104	20.54	21.03
			25	12	50	25	20.73	21.62
		QPSK	1	1	1	1	20.16	21.34
			1	49	1	104	19.78	21.77
			25	12	50	25	20.19	20.71
167300	349000	BPSK	1	1	1	1	20.15	20.07
			1	49	1	104	20.33	19.79
			25	12	50	25	20.80	19.79
		QPSK	1	1	1	1	19.86	20.11
			1	49	1	104	21.21	20.96
			25	12	50	25	20.67	20.13
167800	352000	BPSK	1	1	1	1	21.27	21.02
			1	49	1	104	21.68	21.79
			25	12	50	25	21.23	21.21
		QPSK	1	1	1	1	20.38	20.11
			1	49	1	104	21.01	21.37
			25	12	50	25	20.23	20.33



CA_n66A-n5A								
Combination 40MHz+20MHz								
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
346000	166800	BPSK	1	1	1	1	21.29	21.10
			1	104	1	49	20.46	21.94
			50	25	25	12	21.17	21.47
		QPSK	1	1	1	1	21.01	21.26
			1	104	1	49	21.24	22.23
			50	25	25	12	21.95	22.63
349000	167300	BPSK	1	1	1	1	21.88	20.42
			1	104	1	49	20.37	21.87
			50	25	25	12	21.75	20.37
		QPSK	1	1	1	1	21.01	22.29
			1	104	1	49	20.99	20.94
			50	25	25	12	21.64	22.67
352000	167800	BPSK	1	1	1	1	21.48	21.45
			1	104	1	49	21.65	21.09
			50	25	25	12	21.95	22.53
		QPSK	1	1	1	1	21.21	22.41
			1	104	1	49	21.10	21.86
			50	25	25	12	21.68	21.22



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

5GNR CA_n5A_n2A									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 Middle	3742.00	-60.37	-13	-47.37	-78.76	-67.12	5.85	12.60	H
	5613.00	-58.79	-13	-45.79	-79.13	-64.59	7.30	13.10	H
	7484.00	-54.52	-13	-41.52	-78.36	-57.67	8.35	11.50	H
	3742.00	-60.60	-13	-47.60	-77.21	-67.35	5.85	12.60	V
	5613.00	-58.94	-13	-45.94	-78.84	-64.74	7.30	13.10	V
	7484.00	-54.45	-13	-41.45	-79.18	-57.60	8.35	11.50	V
NR n5 Middle	1655	-65.71	-13	-52.71	-74.38	-68.96	4.00	9.40	H
	2482.5	-63.10	-13	-50.10	-75.99	-66.67	4.88	10.60	H
	3310	-62.09	-13	-49.09	-76.81	-67.02	5.52	12.60	H
	1655	-65.83	-13	-52.83	-77.06	-69.08	4.00	9.40	V
	2482.5	-62.36	-13	-49.36	-78.50	-65.93	4.88	10.60	V
	3310	-62.36	-13	-49.36	-79.26	-67.29	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5GNR CA_n2A_n5A									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1655	-65.50	-13	-52.50	-74.17	-68.75	4.00	9.40	H
	2482.5	-62.94	-13	-49.94	-75.83	-66.51	4.88	10.60	H
	3310	-61.84	-13	-48.84	-76.56	-66.77	5.52	12.60	H
	1655	-65.87	-13	-52.87	-74.14	-69.12	4.00	9.40	V
	2482.5	-63.20	-13	-50.20	-76.06	-66.77	4.88	10.60	V
	3310	-62.22	-13	-49.22	-76.72	-67.15	5.52	12.60	V
NR n2 Middle	3742.00	-60.84	-13	-47.84	-77.53	-67.59	5.85	12.60	H
	5613.00	-59.03	-13	-46.03	-78.74	-64.83	7.30	13.10	H
	7484.00	-54.79	-13	-41.79	-79.53	-57.94	8.35	11.50	H
	3742.00	-60.77	-13	-47.77	-77.38	-67.52	5.85	12.60	V
	5613.00	-59.33	-13	-46.33	-79.23	-65.13	7.30	13.10	V
	7484.00	-54.67	-13	-41.67	-79.4	-57.82	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5GNR CA_n5A_n66A									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1655	-66.00	-13	-53.00	-74.67	-69.25	4.00	9.40	H
	2482.5	-63.60	-13	-50.60	-76.49	-67.17	4.88	10.60	H
	3310	-62.32	-13	-49.32	-77.04	-67.25	5.52	12.60	H
	1655	-66.34	-13	-53.34	-74.61	-69.59	4.00	9.40	V
	2482.5	-63.82	-13	-50.82	-76.68	-67.39	4.88	10.60	V
	3310	-62.74	-13	-49.74	-77.24	-67.67	5.52	12.60	V
NR n66 Middle	3472.00	-61.58	-13	-49.23	-76.96	-68.43	5.65	12.50	H
	5208.00	-61.40	-13	-48.77	-80.73	-67.07	7.13	12.80	H
	6944.00	-55.47	-13	-45.47	-79.40	-58.87	8.40	11.80	H
	3472.00	-62.10	-13	-48.75	-77.5	-68.95	5.65	12.50	V
	5208.00	-61.32	-13	-48.72	-80.9	-66.99	7.13	12.80	V
	6944.00	-55.34	-13	-45.25	-79.74	-58.74	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5GNR CA_n66A_n5A									
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1655	-66.19	-13	-53.19	-74.86	-69.44	4.00	9.40	H
	2482.5	-63.52	-13	-50.52	-76.41	-67.09	4.88	10.60	H
	3310	-62.04	-13	-49.04	-76.76	-66.97	5.52	12.60	H
	1655	-66.27	-13	-53.27	-74.54	-69.52	4.00	9.40	V
	2482.5	-63.54	-13	-50.54	-76.40	-67.11	4.88	10.60	V
	3310	-62.56	-13	-49.56	-77.06	-67.49	5.52	12.60	V
NR n66 Middle	3472.00	-61.80	-13	-49.23	-77.18	-68.65	5.65	12.50	H
	5208.00	-60.35	-13	-48.77	-79.68	-66.02	7.13	12.80	H
	6944.00	-55.79	-13	-45.47	-79.72	-59.19	8.40	11.80	H
	3472.00	-61.94	-13	-48.75	-77.34	-68.79	5.65	12.50	V
	5208.00	-60.41	-13	-48.72	-79.99	-66.08	7.13	12.80	V
	6944.00	-55.51	-13	-45.25	-79.91	-58.91	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.