

FCC Test Report

Report No.: AGC07434220102FE02

FCC ID) 	2ARXB-B18
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Label Printer
BRAND NAME		NIIMBOT
MODEL NAME	:	NIIMBOT B18
APPLICANT	5	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.
DATE OF ISSUE	:	Mar. 03, 2022
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0





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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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Report No.: AGC07434220102FE02 Page 2 of 44

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Mar. 03, 2022	Valid	Initial Release

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Report No.: AGC07434220102FE02 Page 3 of 44

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RELATED SUBMITTAL(S)/GRANT(S)	
2.4. TEST METHODOLOGY	
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	
2.7. ANTENNA REQUIREMENT	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF TESTED SYSTEM	
5.2. EQUIPMENT USED IN TESTED SYSTEM	
5.3. SUMMARY OF TEST RESULTS	10
6. TEST FACILITY	
7. PEAK OUTPUT POWER	
7.1. MEASUREMENT PROCEDURE	
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
7.3. LIMITS AND MEASUREMENT RESULT	
8. BANDWIDTH	
8.1. MEASUREMENT PROCEDURE	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.3. LIMITS AND MEASUREMENT RESULTS	
9. CONDUCTED SPURIOUS EMISSION	
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	19
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	

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Report No.: AGC07434220102FE02 Page 4 of 44

10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3. MEASUREMENT EQUIPMENT USED	
10.4. LIMITS AND MEASUREMENT RESULT	
11. RADIATED EMISSION	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT.	
11.4. TEST RESULT	30
12. LINE CONDUCTED EMISSION TEST	40
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF COMPLIANCE

Applicant	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.		
Address	Creative Workshop No. 5, Creative World, Yezhihu West Road, Hongshan District, Wuhan, China		
Manufacturer	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.		
Address	Creative Workshop No. 5, Creative World, Yezhihu West Road, Hongshan District, Wuhan, China		
Factory	Huangpi branch of Wuhan Jingchen Intelligent Identification Technology Co., Ltd.		
Address	4th Floor, Block 6, Hui Qiang Technology Park, No. 1 Tianyang Road, Chuanlong Av. Hengdian street, Huangpi District, Wuhan, China		
Product Designation	Label Printer		
Brand Name	NIIMBOT		
Test Model	NIIMBOT B18		
Date of test	Jan. 18, 2022 to Mar. 02, 2022		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

Cool chang

Cool Cheng (Project Engineer)

Mar. 03, 2022

Reviewed By

Calvin Liu (Reviewer)

Mar. 03, 2022

Approved By

Max Zhang

Max Zhang (Authorized Officer)

Mar. 03, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Label Printer". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402GHz to 2.480GHz		
RF Output Power	-0.780dBm (Max)		
Bluetooth Version	V4.2		
Modulation	BR GFSK, EDR π /4-DQPSK, BLE GFSK 1Mbps GFSK 2Mbps		
Number of channels	40 Channels		
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	2dBi		
Hardware Version	2.01		
Software Version	2.10		
Power Supply	DC 7.4V by battery or DC 5V by adapter		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2404 MHz
2400~2483.5MHz		
	38	2478 MHz
	39	2480 MHz

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2ARXB-B18 filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.9 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.4 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
1	Low channel TX				
2	Middle channel TX				
3	High channel TX				

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

	ware Setting				
FCCTestTool V2.1					Х
chip type YC31XX 💌		- Bluetooth FCC te Frequency			
			2480MHZ 💌		
YiCHi	P	ModulationRate	GFSK 💌	SELECT	
		TX/RX	TX 💌	SELECT	
Select ROM Download		BT/BLE/2.4G	BLE 💌	SELECT	
ROM Path C:\Users\agc\Desktop\ramcode.rom		Carrier/data	DATA 💌	SELECT	
		Data Length	DH5 💌	SELECT	
set BT/BLE/2.4G succeed	^	Freq hop/fix	FIX •	SELECT	
set Carrier/data succeed set Data Length succeed set Freq hop/fix succeed set Freq hop/fix succeed set ModulationRate succeed set ModulationRate succeed set TX/RX succeed set Carrier/data succeed set Carrier/data succeed set Freq hop/fix succeed set Freq hop/fix succeed set TX/RX succeed set TX/RX succeed set Carrier/data succeed set Carrier/data succeed set Carrier/data succeed set Carrier/data succeed set Carrier/data succeed set Freq hop/fix succeed set TX/RX succeed					

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Label Printer	NIIMBOT B18	2ARXB-B18	EUT
2	Charger line	N/A	0.223m unshielded	Accessory
3	Adapter	XCMS03-0510	DC 5V	C AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	5.247 (d) Conducted Spurious Emission	
15.247 (e) Maximum Conducted Output Power Density		Compliant
15.209 Radiated Emission		Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd					
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China					
Designation Number	CN1259					
FCC Test Firm Registration Number	975832					
A2LA Cert. No.	5054.02					
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA					

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	May.11, 2021	May.10, 2022
Artificial power network	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test Software	FARA	EZ-EMC(Ver. AGC-CON03A1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn Antenna	SCHWARZBECK	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
preamplifier	ChengYi	EMC184045SE	980508	Oct. 29, 2021	Oct. 28, 2023
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Wideband Antenna	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
Test Software	FARA	EZ-EMC(Ver.RA-0 3A)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

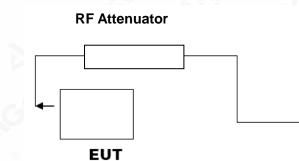
7.1. MEASUREMENT PROCEDURE

For peak power test:

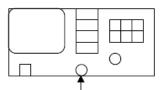
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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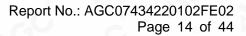
Test Data of Conducted Output Power						
Test ModeTest Channel (MHz)Peak Power (dBm)Limits (dBm)Pass or Fail						
6	2402	-3.052	≤30	Pass		
GFSK 1M	2440	-1.488	≤30	Pass		
	2480	-0.780	≤30	Pass		

7.3. LIMITS AND MEASUREMENT RESULT

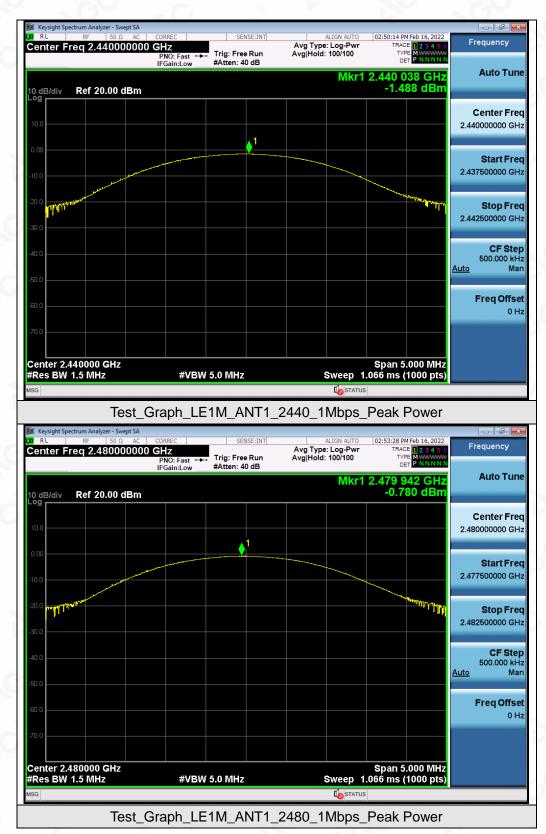
Test Graphs of Conducted Output Power



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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
 Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

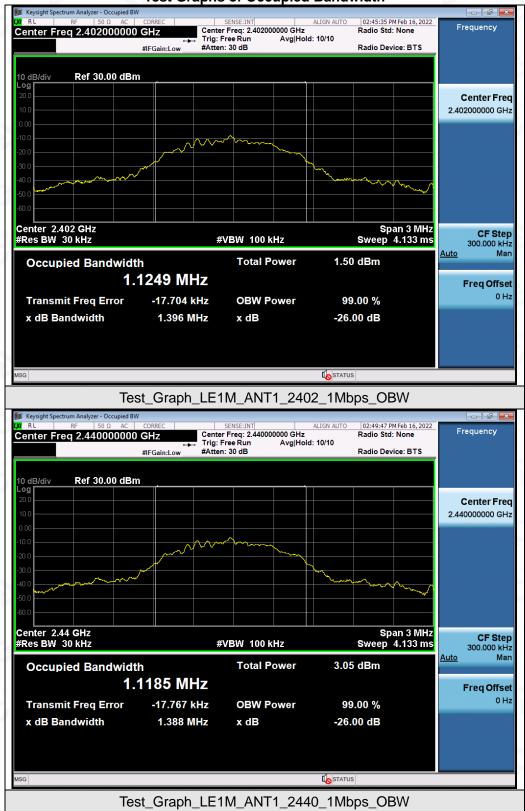
The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

	Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail		
	2402	1.125	0.655	≥0.5	Pass		
GFSK 1M	2440	1.119	0.656	≥0.5	Pass		
©	2480	1.113	0.655	≥0.5	Pass		

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Test Graphs of Occupied Bandwidth

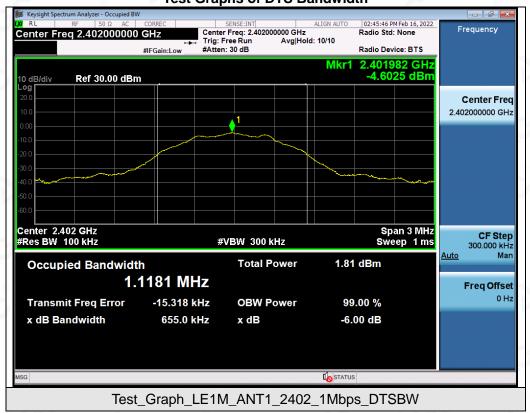
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Report No.: AGC07434220102FE02 Page 17 of 44



Test_Graph_LE1M_ANT1_2480_1Mbps_OBW Test Graphs of DTS Bandwidth



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Report No.: AGC07434220102FE02 Page 18 of 44



Test_Graph_LE1M_ANT1_2440_1Mbps_DTSBW



Test_Graph_LE1M_ANT1_2480_1Mbps_DTSBW

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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

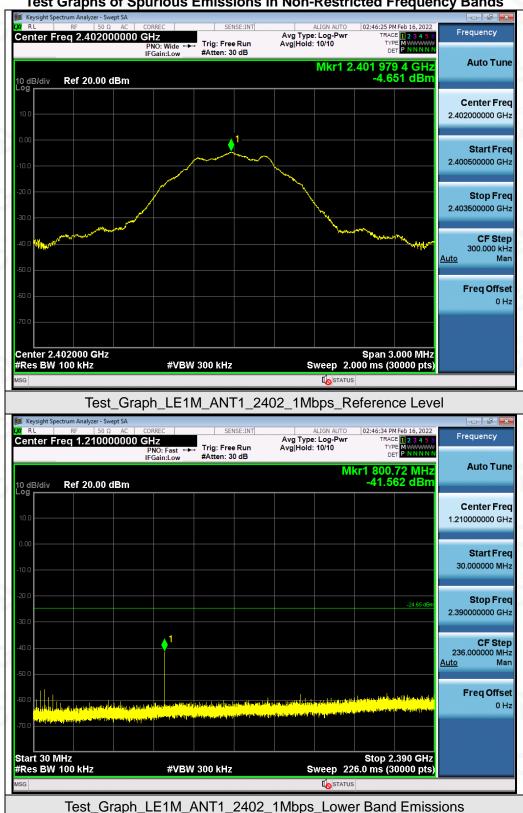
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Applicable Limite	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS			

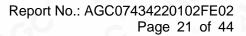
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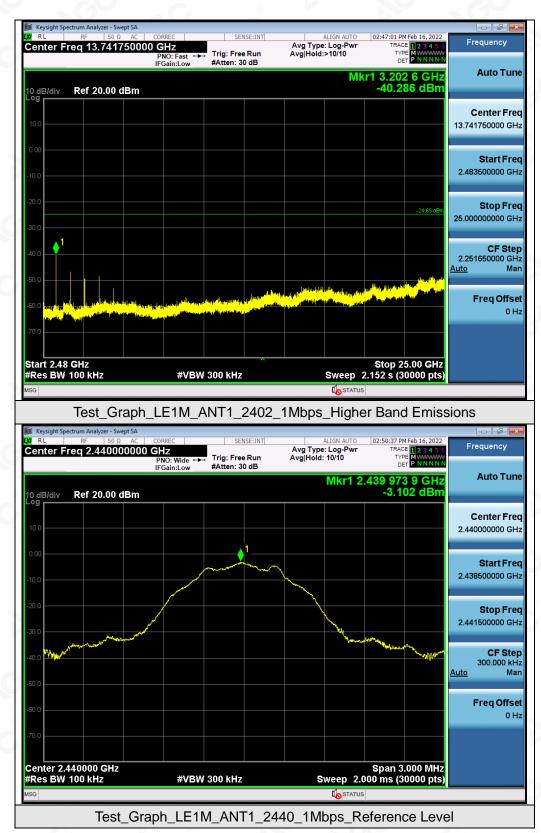


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

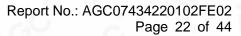
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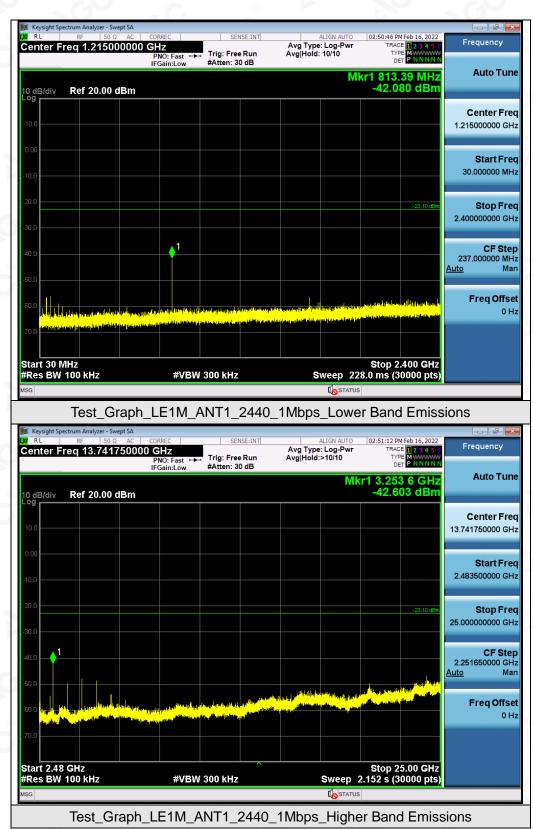




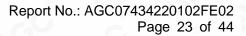
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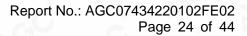
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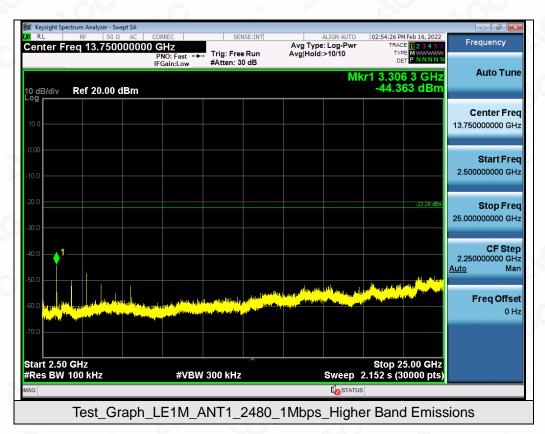




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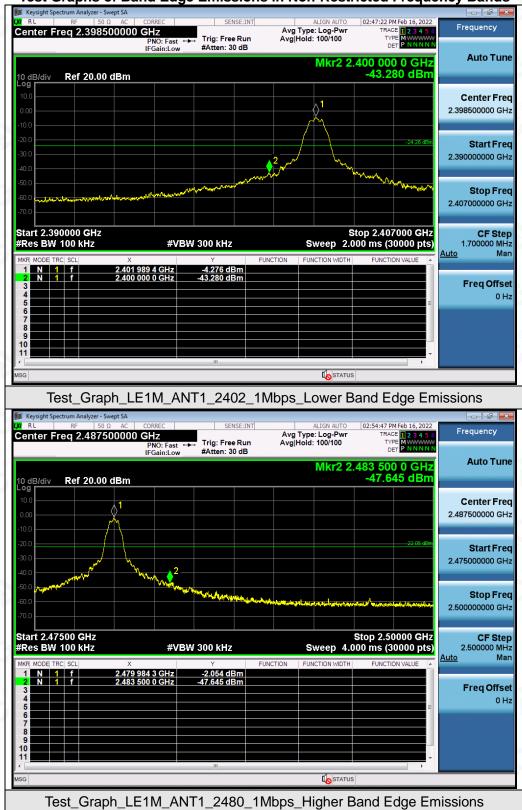
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

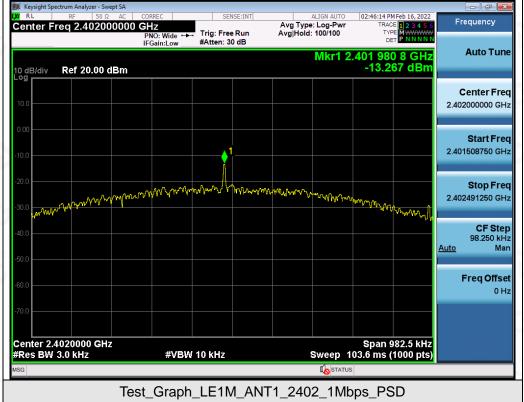
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
	2402	-13.267	≤8	Pass		
GFSK 1M	2440	-11.820	≤8	Pass		
- C	2480	-11.056	≤8	Pass		

Test Graphs of Conducted Output Power Spectral Density



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Report No.: AGC07434220102FE02 Page 27 of 44

Auto

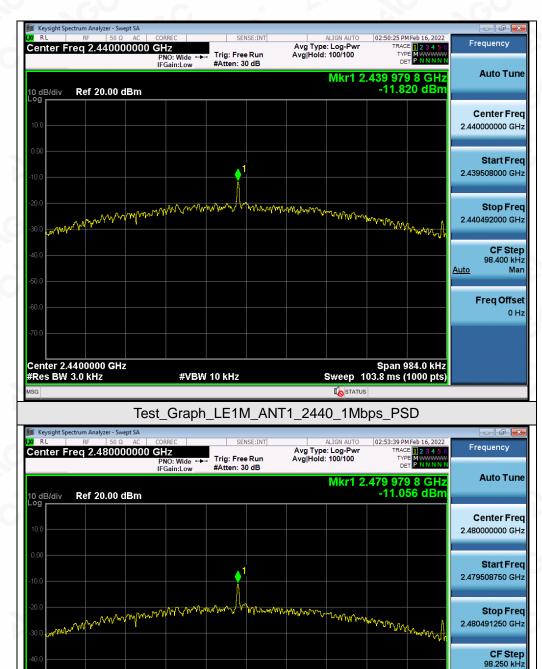
Span 982.5 kHz Sweep 103.6 ms (1000 pts)

The STATU

Mai

Freq Offset





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Test_Graph_LE1M_ANT1_2480_1Mbps_PSD

#VBW 10 kHz

Center 2.4800000 GHz #Res BW 3.0 kHz



11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

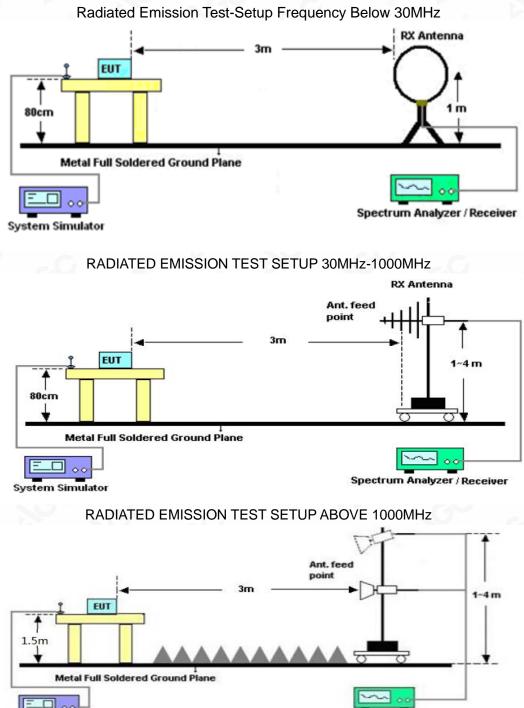
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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Report No.: AGC07434220102FE02 Page 29 of 44

11.2. TEST SETUP



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Spectrum Analyzer / Receive

System Simulator

11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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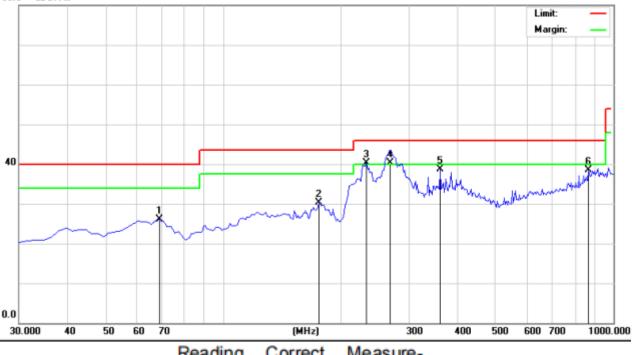


Report No.: AGC07434220102FE02 Page 31 of 44

	Radiated emission from 30	VIAZ to 1000MAZ	
EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	21.8°C	Relative Humidity	58%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Radiated emission from 30MHz to 1000MHz





	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
l			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		68.7999	14.10	12.03	26.13	40.00	-13.87	peak
Į	2		177.1167	20.95	9.32	30.27	43.50	-13.23	peak
ľ	3	*	233.6999	32.13	8.21	40.34	46.00	-5.66	peak
ľ	4	l	269.2667	31.17	9.07	40.24	46.00	-5.76	QP
	5		359.8000	20.88	17.78	38.66	46.00	-7.34	peak
	6		864.2000	16.89	21.63	38.52	46.00	-7.48	peak

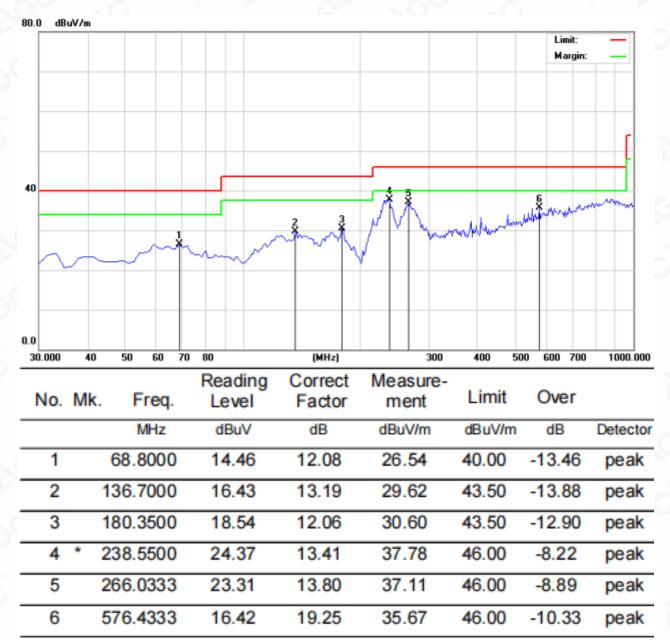
RESULT: PASS

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Report No.: AGC07434220102FE02 Page 32 of 44

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	21.8°C	Relative Humidity	58%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



RESULT: PASS

- Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
 - 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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Report No.: AGC07434220102FE02 Page 33 of 44

Radiated emission above 1GHz

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	42.34	0.08	42.42	74	-31.58	peak
4804.000	34.19	0.08	34.27	54	-19.73	AVG
7206.000	37.12	2.21	39.33	74	-34.67	peak
7206.000	29.76	2.21	31.97	54	-22.03	AVG
CC .		8		NO	- 6	8
emark:						

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	42.68	0.08	42.76	74	-31.24	peak
4804.000	33.43	0.08	33.51	54	-20.49	AVG
7206.000	38.07	2.21	40.28	74	-33.72	peak
7206.000	29.33	2.21	31.54	54	-22.46	AVG
		O.S	®		2	0

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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Report No.: AGC07434220102FE02 Page 34 of 44

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

(dB) 0.14 0.14 2.36	(dBµV/m) 43.35 34.86 40.82	(dBµV/m) 74 54 74	(dB) -30.65 -19.14	Value Type peak AVG
0.14	34.86	54	-19.14	AVG
(S)				(%)
2.36	40.82	74	00.40	. (8)
	.5.02	14	-33.18	peak
2.36	32.53	54	-21.47	AVG
		3	R	
8		~G~	- 64	8
			e Loss – Pre-amplifier.	

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits 💿	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	42.67	0.14	42.81	74	-31.19	peak
4880.000	34.19	0.14	34.33	54	-19.67	AVG
7320.000	38.36	2.36	40.72	74	-33.28	peak
7320.000	30.72	2.36	33.08	54	-20.92	AVG
2		8		G	-0	0

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Compliances Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restrict a stamp? is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the requiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results the test report.



Report No.: AGC07434220102FE02 Page 35 of 44

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	44.34	0.22	44.56	74	-29.44	peak
4960.000	33.81	0.22	34.03	54	-19.97	AVG
7440.000	40.35	2.64	42.99	74	-31.01	peak
7440.000	30.25	2.64	32.89	54	-21.11	AVG
	0				©	
emark:	- 6	0		-67	- 6	8
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier			

EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits 🔍	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.99	0.22	43.21	74	-30.79	peak
4960.000	34.05	0.22	34.27	54	-19.73	AVG
7440.000	38.68	2.64	41.32	74	-32.68	peak
7440.000	29.74	2.64	32.38	54	-21.62	AVG
	C C					
		8				
emark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-a	amplifier.	8		

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit. The "Factor" value can be calculated automatically by software of measurement system.

Compliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written of the report is not permitten /Inspection he test results apthorization of AG presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d he test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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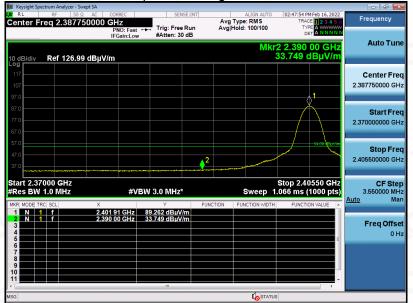
EUT	Label Printer	Model Name	NIIMBOT B18
Temperature	25°C	Relative Humidity	55%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test result for band edge emission at restricted bands

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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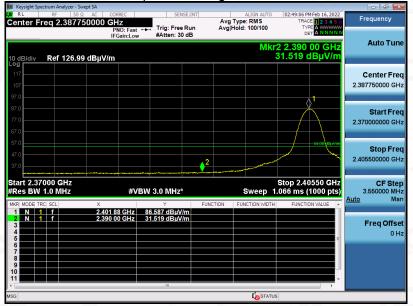
Report No.: AGC07434220102FE02 Page 37 of 44

EUT	Label Printer	Model Name	NIIMBOT B18			
Temperature	25°C	Relative Humidity	55%			
Pressure	985hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 1	Antenna	Vertical			
Test Oreals for Deals Measurement						

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC07434220102FE02 Page 38 of 44

EUT	Label Printer	Model Name	NIIMBOT B18			
Temperature	25°C	Relative Humidity	55%			
Pressure	985hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 3	Antenna	Horizontal			
	Test Onesh fee Deale					

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

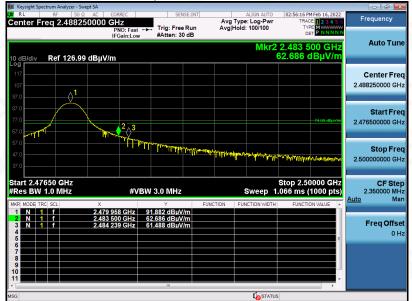
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Report No.: AGC07434220102FE02 Page 39 of 44

EUT	Label Printer	Model Name	NIIMBOT B18				
Temperature	25°C	Relative Humidity	55%				
Pressure	985hPa	Test Voltage	Normal Voltage				
Test Mode	Mode 3	Antenna	Vertical				

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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12. LINE CONDUCTED EMISSION TEST

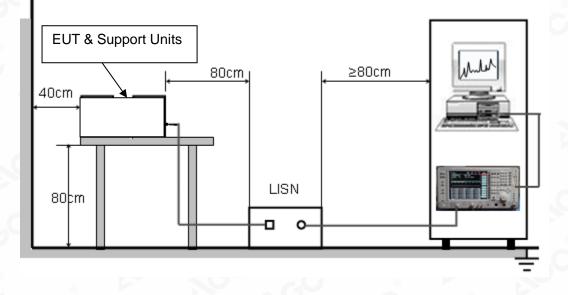
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

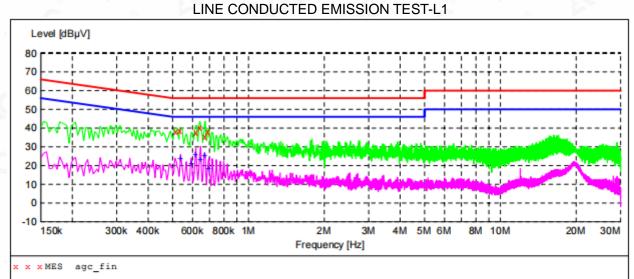
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

MEASUREMENT RESULT: "agc_fin"

2022/2/26 15:	24						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.518000	37.90	5.4	56	18.1	QP	L1	GND
0.538000	38.60	5.4	56	17.4	QP	L1	GND
0.622000	37.40	5.4	56	18.6	QP	L1	GND
0.642000	40.20	5.4	56	15.8	QP	L1	GND
0.674000	35.60	5.4	56	20.4	QP	L1	GND
0.694000	38.00	5.4	56	18.0	QP	L1	GND

MEASUREMENT RESULT: "agc fin2"

2	022/2/26 15:	24						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.538000	23.80	5.4	46	22.2	AV	L1	GND
					22.2	AV	111	
	0.594000	20.80	5.4	46	25.2	AV	L1	GND
	0.618000	25.70	5.4	46	20.3	AV	L1	GND
	0.646000	22.90	5.4	46	23.1	AV	L1	GND
	0.670000	25.40	5.4	46	20.6	AV	L1	GND
	0.698000	18.10	5.4	46	27.9	AV	L1	GND
RESU	LT: PASS							

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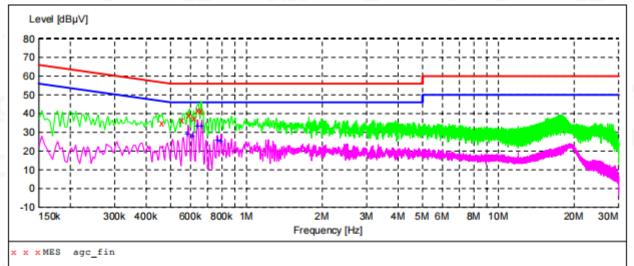
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc fin"

2022/2/26 15:3	0						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.462000	34.90	5.5	57	21.8	QP	N	GND
0.558000	36.60	5.4	56	19.4	QP	N	GND
0.594000	39.00	5.4	56	17.0	QP	N	GND
0.618000	37.50	5.4	56	18.5	QP	N	GND
0.642000	42.00	5.4	56	14.0	QP	N	GND
0.662000	41.50	5.4	56	14.5	QP	N	GND

MEASUREMENT RESULT: "agc fin2"

2022/2/26 15:	28							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
	-							
0.586000	29.00	5.4	46	17.0	AV	N	GND	
0.614000	27.70	5.4	46	18.3	AV	N	GND	
0.638000	33.50	5.4	46	12.5	AV	N	GND	
0.666000	33.30	5.4	46	12.7	AV	N	GND	
0.766000	25.90	5.4	46	20.1	AV	N	GND	
0.794000	25.10	5.4	46	20.9	AV	N	GND	
0								

RESULT: PASS

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Report No.: AGC07434220102FE02 Page 44 of 44

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC07434220102AP02 APPENDIX B: PHOTOGRAPHS OF EUT Refer to the Report No.: AGC07434220102AP03 ----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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