

FCC Test Report

Report No.: AGC15798230728FR01

FCC ID : 2BB3M-LIMITLESS5

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: 2.4G broadcasting module

BRAND NAME : N/A

MODEL NAME : LIMITLESS 5

APPLICANT: Drone-Clone Xperts, Inc.

DATE OF ISSUE : Sep. 13, 2023

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION: V1.0

Attestation Of Global Conclude (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 13, 2023	Valid	Initial Release

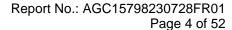


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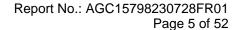
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1. General Information

Applicant	Drone-Clone Xperts, Inc.
Address	13 Carrington Way, Morristown NJ, 07960 Unites States
Manufacturer	Drone-Clone Xperts, Inc.
Address	13 Carrington Way, Morristown NJ, 07960 Unites States
Factory	Drone-Clone Xperts, Inc.
Address	13 Carrington Way, Morristown NJ, 07960 Unites States
Product Designation	2.4G broadcasting module
Brand Name	N/A
Test Model	LIMITLESS 5
Date of receipt of test ite m	Jul. 10, 2023
Date of Test	Jul. 10, 2023 to Sep. 13, 2023
Deviation from Standard	No any deviation from the test method
Condition of Test Sample Normal	
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Reviewed By

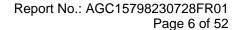
Calvin Liu
(Reviewer)

Max Zhang
(Authorized Officer)

Sep. 13, 2023

Sep. 13, 2023

Sep. 13, 2023





2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz			
Operation Frequency Range	2402MHz-2480MHz			
Bluetooth Version	V5.3			
Modulation Type	BLE ⊠GFSK 1Mbps □GFSK 2Mbps			
Number of channels	40			
Carrier Frequency of Each Channel	40 Channels (37 hopping + 3 advertising channel)			
Channel Separation	2 MHz			
Maximum Transmitter Power	4.689 dBm (0.00294 W)			
Hardware Version	V1.0			
Software Version	V1.0			
Antenna Designation	PCB Antenna			
Antenna Gain	1.74 dBi			
Power Supply DC 5V by PC				
Note: The EUT doesn't support BR/EDR.				

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency			
	0	2402 MHz			
	1	2404 MHz			
	:	:			
2400~2483.5MHz	19	2440MHz			
	:	:			
	38	2478 MHz			
	39	2480 MHz			
Note: f = 2402 + 2*k MHz, k = 0,, 39 f is the operating frequency (MHz) k is the operating channel.					



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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BB3M-LIMITLESS5**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 1.74 dBi.



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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

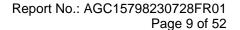
Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.





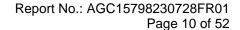
3.3 Environmental Conditions

	NORMAL CONDITIONS
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 5V

3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±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	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
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 = ±2 %

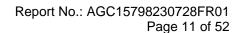




3.5 List of Equipment Use

RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
\boxtimes	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
\boxtimes	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02
\boxtimes	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02
\boxtimes	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
\boxtimes	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
\boxtimes	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
\boxtimes	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

• R	Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
\boxtimes	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17	
	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11	
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
\boxtimes	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22	
\boxtimes	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2021-10-31	2023-10-30	
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03	
\boxtimes	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	
• A	AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
\boxtimes	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024/06/02	





• Tes	Test Software								
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information				
\boxtimes	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	4.0.0.0				
\boxtimes	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A				
\boxtimes	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71				



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4.System Test Configuration

4.1 EUT Configuration

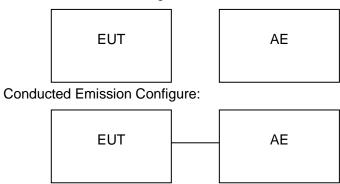
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Specification Information	Note
1	PC	XMA2002-AB	N/A	Test Peripheral
2	Adapter(PC)	AD651	Input: 100V-240V 50/60HZ 1.5A Output: 5V3A, 9V3A, 12V3A, 15V3A, 3.25A 65W	Test Peripheral

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Specification Information	Note
1	2.4G broadcasting module	LIMITLESS 5	2BB3M-LIMITLESS5	EUT



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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
4	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
5	§15.209	Radiated Emission& Band Edge	Pass
6	§15.207	AC Power Line Conducted Emission	Pass

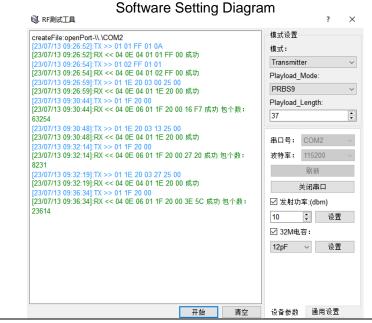


5. Description of Test Modes

Summary Table of Test Cases				
	Data Rate / Modulation			
Test Item	Bluetooth – LE / GFSK			
Radiated&Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps			
AC Conducted Emission	Mode 1: Bluetooth Link + USB Port (Power supply by PC)			

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.





6. Duty Cycle Measurement

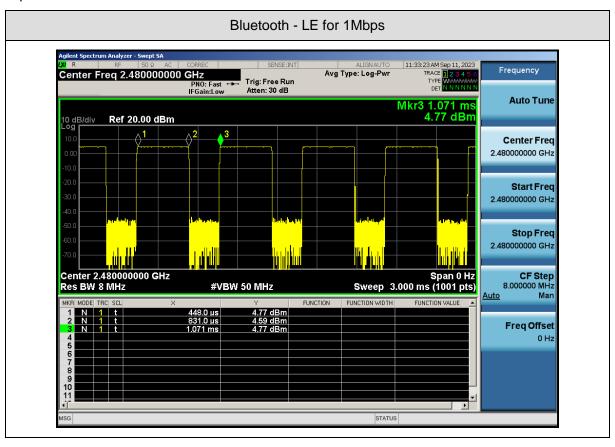
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

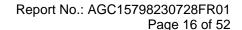
Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	0.383	61	2.15	2.61

Remark:

- Duty Cycle factor = 10 * log (1/ Duty cycle)
- The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value

The test plots as follows:







7. RF Output Power Measurement

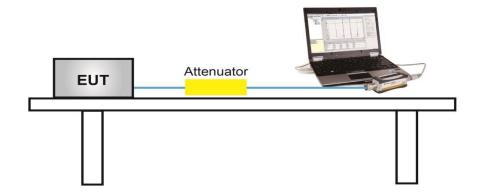
7.1 Provisions Applicable

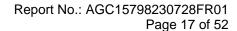
For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

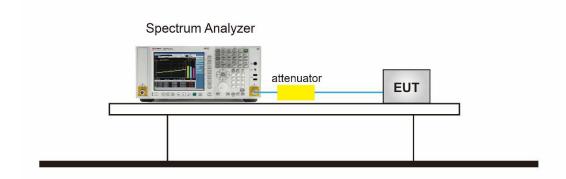
- For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.2 Method Integrated band power:
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector Function: Peak.
- 7. Trace: Max hold.
- 8. 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.
- For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

7.3 Measurement Setup (Block Diagram of Configuration)







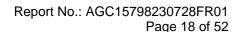


7.4 Measurement Result

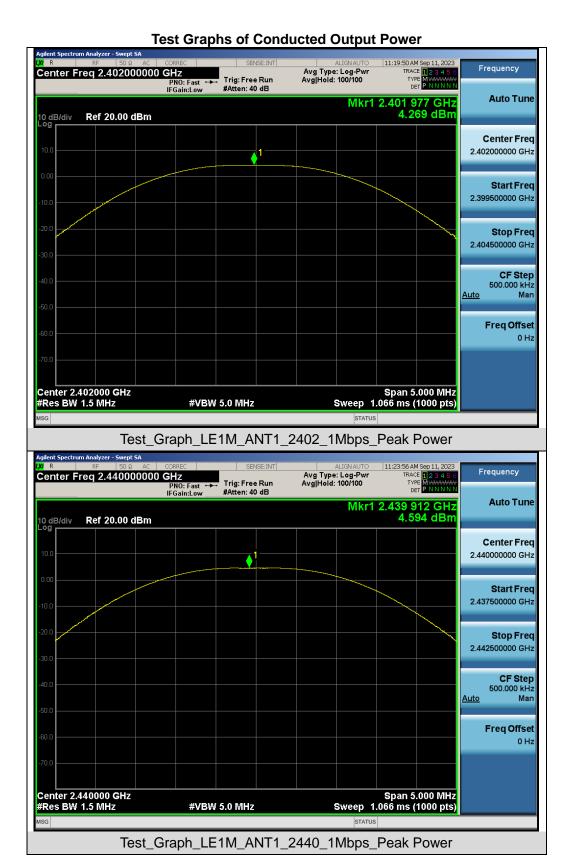
Test Data of Conducted Output Power					
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
	2402	4.269	≤30	Pass	
GFSK_1Mbps	2440	4.594	≤30	Pass	
	2480	4.689	≤30	Pass	

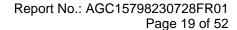
Test Result of Average Output Power (Reporting Only)

Test Data of Conducted Output Power					
lest Mode		Limits (dBm)	Pass or Fail		
	2402	3.925	≤30	Pass	
GFSK_1Mbps	2440	3.276	≤30	Pass	
	2480	3.454	≤30	Pass	

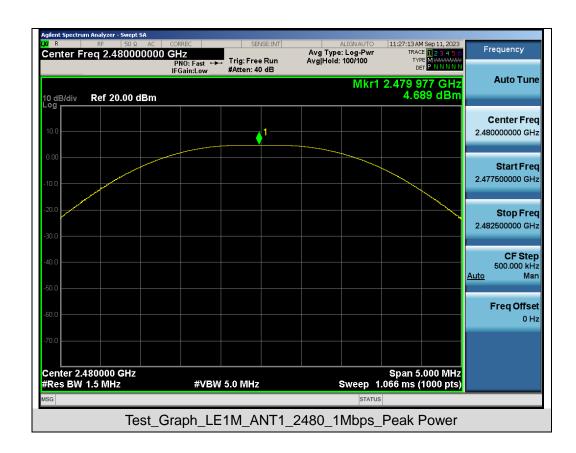


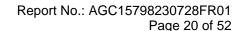














8. 6dB Bandwidth Measurement

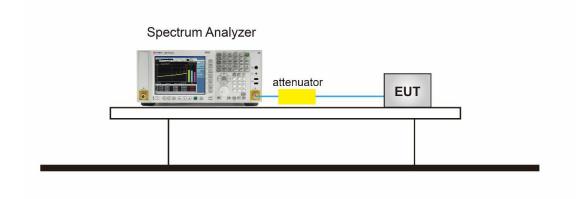
8.1 Provisions Applicable

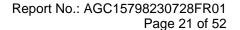
The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

- 1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 6. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)





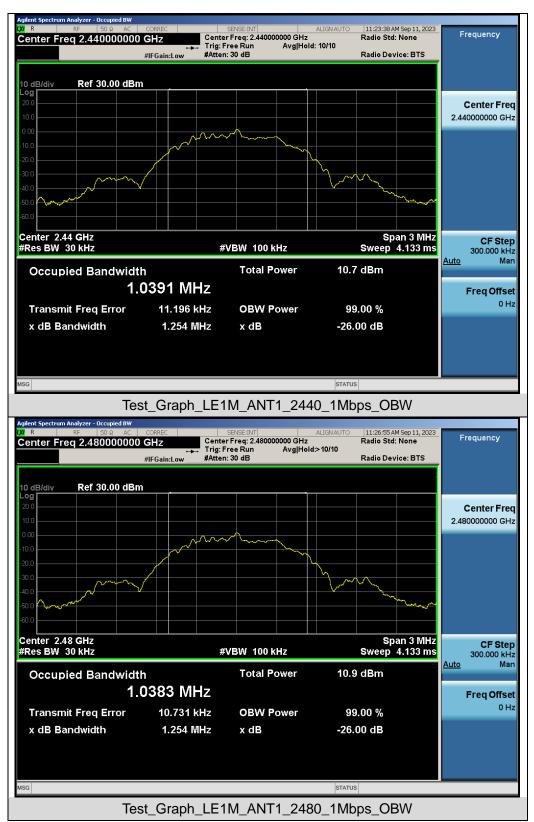


8.4 Measurement Results

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
	2402	1.041	0.711	≥0.5	Pass
GFSK_1Mbps	2440	1.039	0.709	≥0.5	Pass
	2480	1.038	0.707	≥0.5	Pass

Test Graphs of Occupied Bandwidth |11:19:32 AM Sep 11, 2023 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Center Freq 2.402000000 GHz Avg|Hold: 10/10 Radio Device: BTS Ref 30.00 dBm Center Freq 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 4.133 ms **CF Step** #VBW 100 kHz 300,000 kHz <u>Auto</u> 10.5 dBm **Total Power** Occupied Bandwidth 1.0409 MHz Freq Offset 0 Hz **Transmit Freq Error** 10.932 kHz **OBW Power** 99.00 % x dB Bandwidth 1.257 MHz -26.00 dB x dB STATUS Test_Graph_LE1M_ANT1_2402_1Mbps_OBW



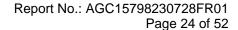


Test Graphs of DTS Bandwidth

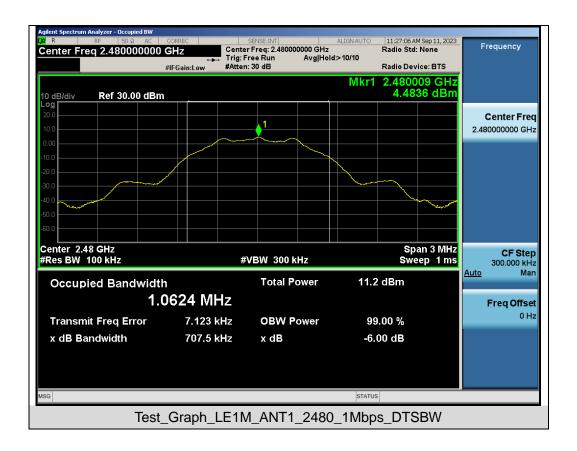
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

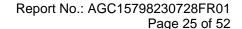














9. Power Spectral Density Measurement

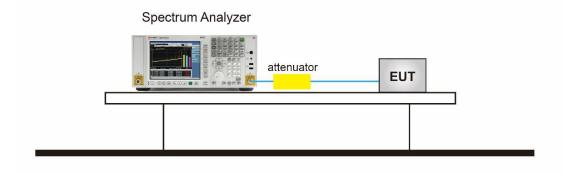
9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

- 1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)

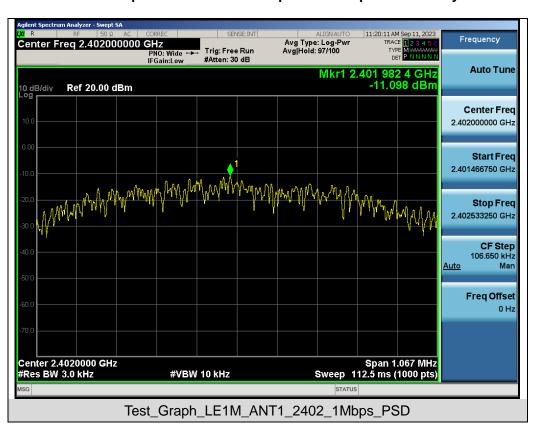




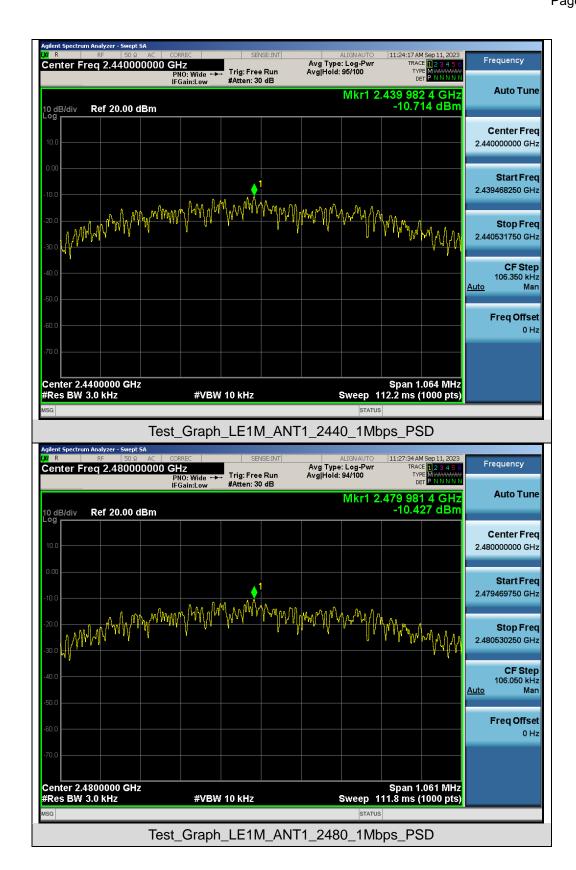
9.4 Measurement Results

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
	2402	-11.098	≪8	Pass	
GFSK_1Mbps	2440	-10.714	≤8	Pass	
	2480	-10.427	≪8	Pass	

Test Graphs of Conducted Output Power Spectral Density









10. Conducted Band Edge And Out-of-Band Emissions

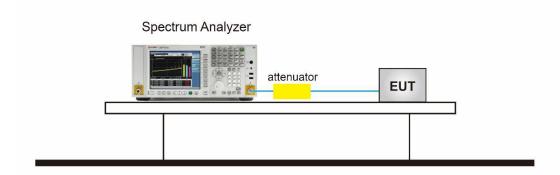
10.1 Provisions Applicable

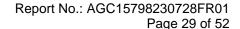
The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)







10.4 Measurement Results

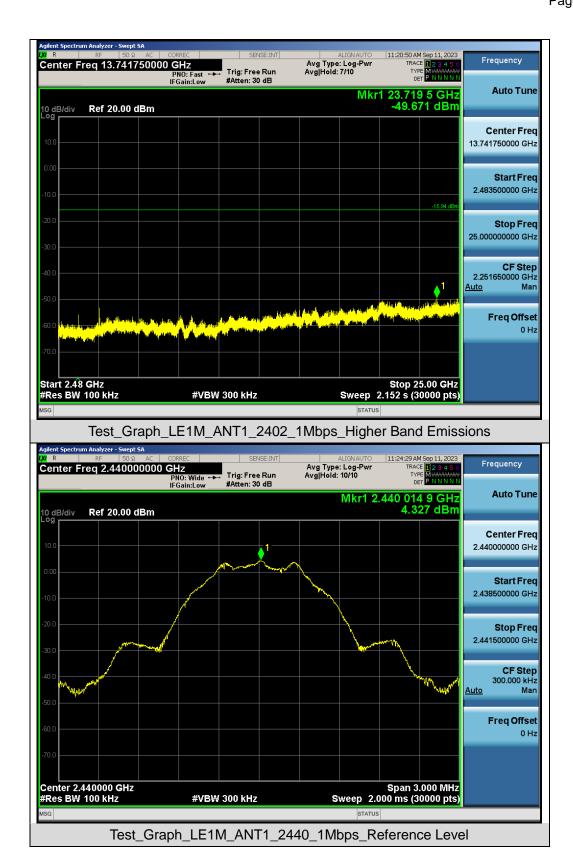
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



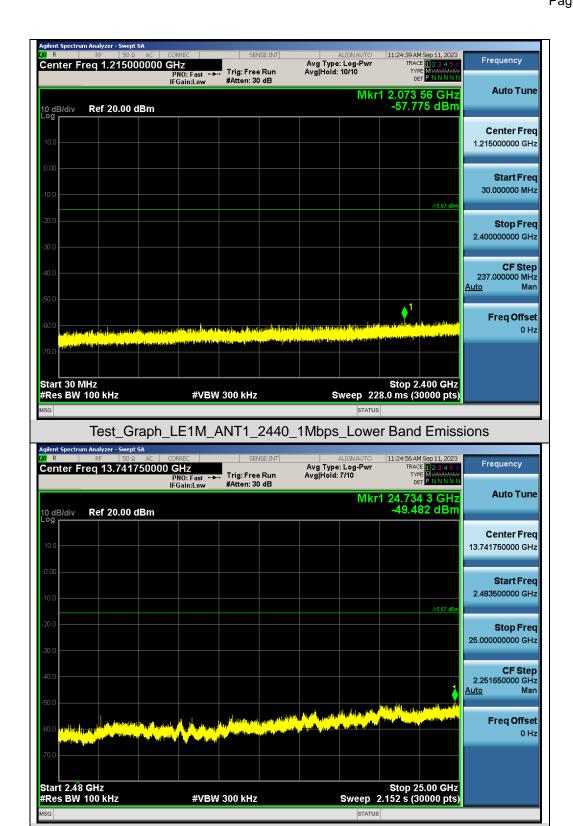
Test_Graph_LE1M_ANT1_2402_1Mbps_Reference Level







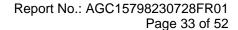




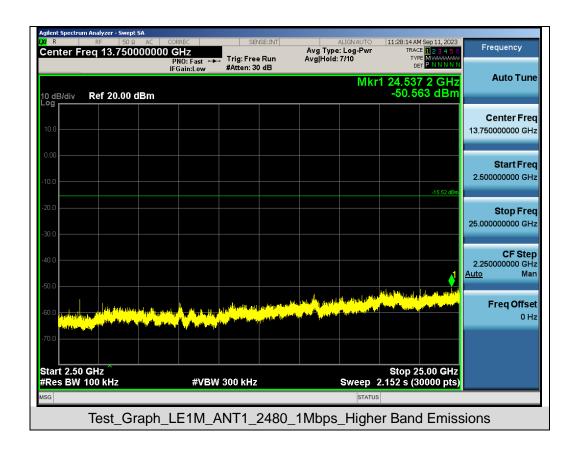
Test_Graph_LE1M_ANT1_2440_1Mbps_Higher Band Emissions

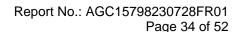




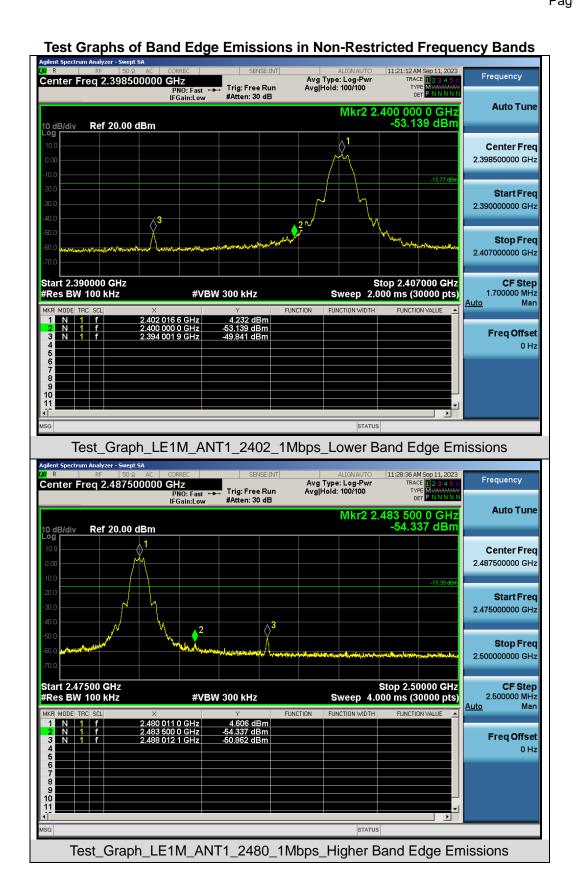














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11. Radiated Spurious Emission

11.1 Measurement Limits

FCC Part 15.209 Limit in the below table 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.

11.2 Measurement Procedure

- 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.

Any rep Ashang alternative (provided pther, transmitteral operates a forrill ongern than one in seconds) e or pincases in where othe Stamp" is deemed to be invalid. Copying or excepting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



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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.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Start ~Stop i requency	1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



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Quasi-Peak Measurements below 1GHz

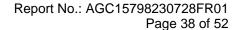
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

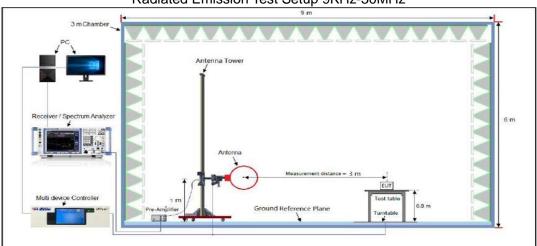
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW setting requirements are as follows:
- 4. If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
- 5. If the EUT duty cycle is < 98%, set VBW $\ge 1/T$. T is the minimum transmission duration.
- 6. Detector = Peak
- 7. Sweep time = auto
- 8. Trace mode = max hold
- 8. Trace was allowed to stabilize



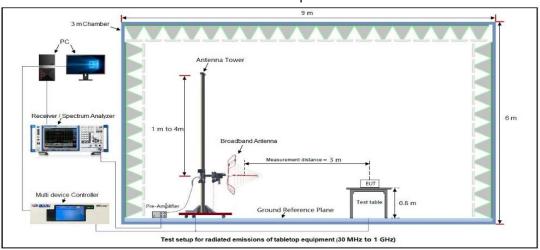


11.3 Measurement Setup (Block Diagram of Configuration)

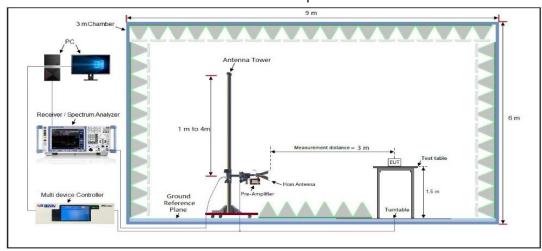
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz

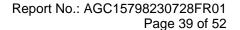


Radiated Emission Test Setup Above 1000MHz



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11.4 Measurement 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.

				Rad	liate	d E	missi	on Test Re	sults a	at 30N	IHz-1GI	Hz			
EUT	2.4	4G b	roa	dcast	ing n	nod	ule		N	Model Name			LIN	LIMITLESS 5	
Temperature	23	8.6°	С						R	Relative Humidity 5			59.	.1%	
Pressure	96	0hP	а						Т	est Vo	ltage		No	Normal Voltage	
Test Mode	Мс	ode 3	3						Р	olarity	':		Но	rizo	ntal
72.0 d	BuV/m												Limit		
-8 30,000				n _h ol _a th _h ot-an		a)halisi	Z HUR Yww	alkarenden den Helle segar eta - Hel ^{ler}	ang a kapang dan	Parket Verlagiful	alan Arangha da Parangan Arang	***	Marg		ωχ.,
				60 70	1 80			(MHz)		300	400	500	600 7	nn	1000 000
١	Vo. N	Æ.		60 7 0 Freq.	F	Rear	ding /el	(MHz) Correct Factor		300 sure-	400 Limit	500	600 7)ver	00	1000.000
1	10. N	Λk.	F		F		/el	Correct		sure- ent		: C			1000.000
	No. N		F	Freq.	F	dB)	/el	Correct Factor	me	sure- ent V/m	Limit	: C)ver	De	
			44.	Freq.	F	dBi	/el ¯ uV	Correct Factor	dBu'	sure- ent V/m 09	Limit dB/m	-1)∨er dB	De	tector
	1	1	44.1 09.1	Freq. MHz .7433	F	dB 6. 5.	/el	Correct Factor dB 13.57	те dBu' 20 .	sure- ent V/m 09	Limit dB/m	-1 -2	over dB 9.91	De p	tector eak
	1 2	1 4	44. 44. 09.	Freq. MHz .7433 .0285	F	dB 6. 5.	/el uv 52 40	Correct Factor dB 13.57 16.29	me dBu ¹ 20 . 21 .	sure- ent V/m 09 69	Limit dB/m 40.00	-1 -2	over dB 9.91 1.81	De p	tector eak eak
	1 2 3	1 4 5	6 44.1 09.1 147.3	Freq. MHz 7433 0285 9821	F	6. 5.	/el uv 52 40 29	Correct Factor dB 13.57 16.29 24.82	20 . 21 . 30 .	sure- ent V/m 09 69 11	Limit dB/m 40.00 43.50 46.00	-1 -2 -1 -1	0ver dB 9.91 1.81 5.89	De p	eak eak
	1 2 3 4	1 4 5	F 44.1 09.1 147.3 120.1	Freq. MHz 7433 0285 9821 8881	F	6. 5. 6. 7.	/el	Correct Factor dB 13.57 16.29 24.82 25.14	20. 21. 30.	sure- ent V/m 09 69 11 53	Limit dB/m 40.00 43.50 46.00 46.00	-1 -2 -1 -1	0ver dB 9.91 1.81 5.89	De p	eak eak eak eak



				aiate	ed Emissi		ditto at oon.		_	
EUT	2.4	4G bro	adcas	ting	module		Model I	Name	L	LIMITLESS 5
Temperature	e 23	.6° C					Relativ	e Humid	lity 5	59.1%
Pressure	96	0hPa					Test Vo	Itage	N	Normal Voltage
Test Mode	М	ode 3					Polarity	:	\	/ertical
32								33	M	argin:
	LANKA DIRAK	derenter Herri	, A April policy	rtusta-Viraga	W. A. Land March	hers or folken province have	and property the second many published and	MADE TO THE STREET	July County	
-8 30.00				**************************************		MHz)	Weeken beeken when	400		700 1000.000
-8		50		70 80				WWW	500 600	700 1000.000
-8	00 40	50	60 7	70 80	Reading	(MHz) Correct	300 Measure-	400	500 600 Ove	700 1000.000
-8	00 40	50 Mk.	60 7	70 8 0	Reading Level	(MHz) Correct Factor	300 Measure- ment	400 Limit	500 600 Ove	700 1000.000 er Detector
-8	00 40 No. I	50 Mk.	Frec	70 80	Reading Level	(MHz) Correct Factor	Measure- ment dBuV/m	400 Limit	500 600 Ove	700 1000.000 er Detector 29 peak
-8	00 40 No. I	50 Mk.	Frec MHz	70 80	Reading Level dBuV 6.69	(MHz) Correct Factor dB 17.02	Measure- ment dBuV/m	400 Limit dB/m 40.00	Ove	700 1000.000 er Detector 29 peak 39 peak
-8	No. I	50 Mk. 52 122 44	Fred MHz 2.207	70 80 71. 9	Reading Level dBuV 6.69 9.74	(MHz) Correct Factor dB 17.02	Measure- ment dBuV/m 23.71 27.51	Limit dB/m 40.00 43.50	Ove dB -16.2	700 1000.000 er Detector 29 peak 39 peak
-8	No. I	50 Mk. 50 122 44 586	Fred MHz 2.207 2.834 7.982	70 80 71. 9 0 1	Reading Level dBuV 6.69 9.74 7.74	(MHz) Correct Factor dB 17.02 17.77 25.74	300 Measure- ment dBuV/m 23.71 27.51 33.48	400 Limit dB/m 40.00 43.50 46.00	Ove dB -16.2 -12.5	700 1000.000 er Detector 29 peak 39 peak 52 peak 63 peak

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.



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Radiated Emissions Test Results for Above 1 GHz

EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.45	0.08	46.53	74	-27.47	peak
37.56	0.08	37.64	54	-16.36	AVG
41.79	2.21	44	74	-30	peak
32.24	2.21	34.45	54	-19.55	AVG
	(dBµV) 46.45 37.56 41.79	(dBµV) (dB) 46.45 0.08 37.56 0.08 41.79 2.21	(dBμV) (dB) (dBμV/m) 46.45 0.08 46.53 37.56 0.08 37.64 41.79 2.21 44	(dBμV) (dB) (dBμV/m) (dBμV/m) 46.45 0.08 46.53 74 37.56 0.08 37.64 54 41.79 2.21 44 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 46.45 0.08 46.53 74 -27.47 37.56 0.08 37.64 54 -16.36 41.79 2.21 44 74 -30

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

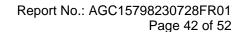
EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	46.46	0.08	46.54	74	-27.46	peak
4804.000	37.17	0.08	37.25	54	-16.75	AVG
7206.000	41.22	2.21	43.43	74	-30.57	peak
7206.000	32.45	2.21	34.66	54	-19.34	AVG

Remark:

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

RESULT: Pass





Radiated Emissions Test Results for Above 1GHz

EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.54	0.14	45.68	74	-28.32	peak
4882.000	38.26	0.14	38.4	54	-15.6	AVG
7323.000	41.69	2.36	44.05	74	-29.95	peak
7323.000	34.45	2.36	36.81	54	-17.19	AVG

Remark:

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

EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	45.86	0.14	46	74	-28	peak
4882.000	37.74	0.14	37.88	54	-16.12	AVG
7323.000	40.26	2.36	42.62	74	-31.38	peak
7323.000	33.52	2.36	35.88	54	-18.12	AVG

RESULT: Pass

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





Radiated Emissions Test Results for Above 1GHz

EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.21	0.22	46.43	74	-27.57	peak
4960.000	38.56	0.22	38.78	54	-15.22	AVG
7440.000	41.69	2.64	44.33	74	-29.67	peak
7440.000	32.82	2.64	35.46	54	-18.54	AVG

|Remark:

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

EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.36	0.22	46.58	74	-27.42	peak
4960.000	38.75	0.22	38.97	54	-15.03	AVG
7440.000	40.88	2.64	43.52	74	-30.48	peak
7440.000	31.49	2.64	34.13	54	-19.87	AVG
Remark:						

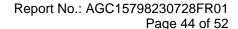
RESULT: Pass

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection 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. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

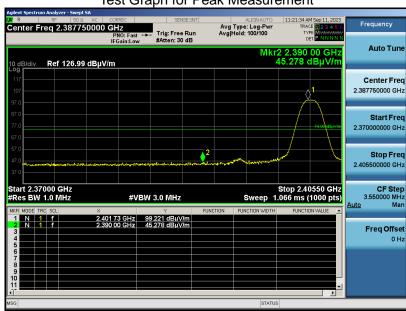
Factor = Antenna Factor + Cable Loss - Pre-amplifier.

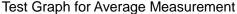


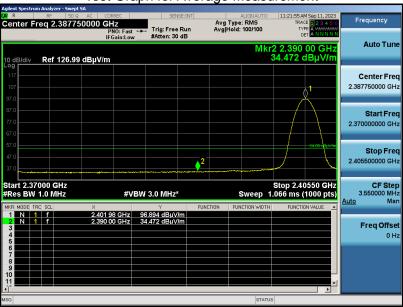


EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

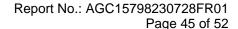
Test Graph for Peak Measurement







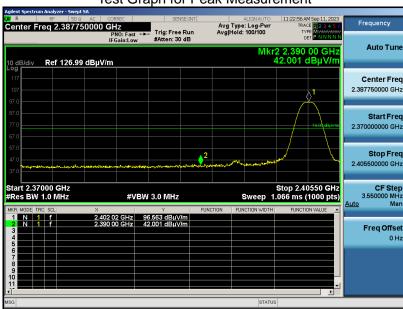
RESULT: Pass



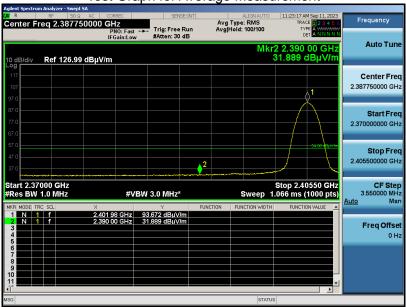


EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

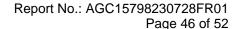
Test Graph for Peak Measurement







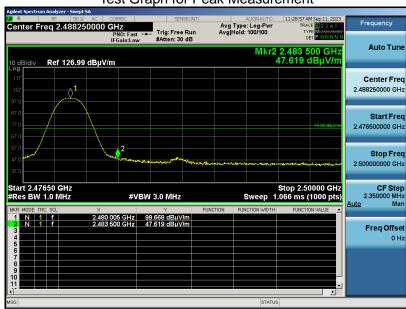
RESULT: Pass

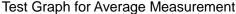


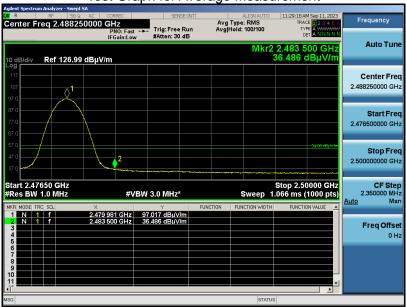


EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

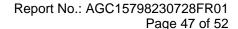
Test Graph for Peak Measurement







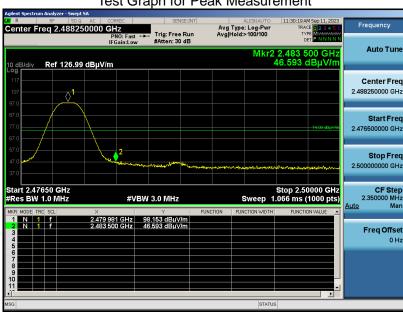
RESULT: Pass



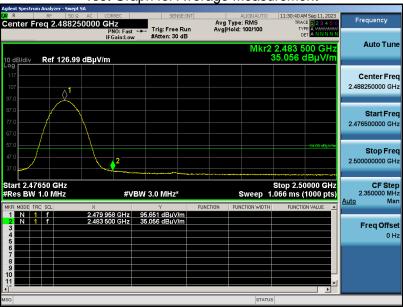


EUT	2.4G broadcasting module	Model Name	LIMITLESS 5
Temperature	23.6° C	Relative Humidity	59.1%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

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.



12. AC Power Line Conducted Emission Test

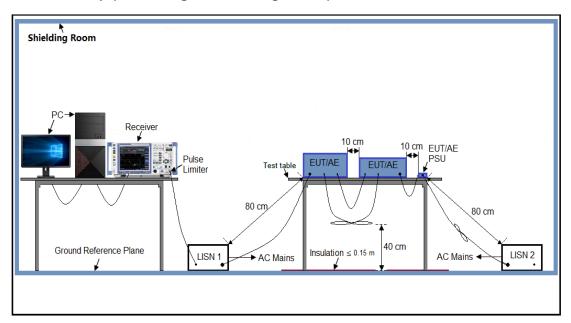
12.1 Measurement Limits

Francisco	Maximum RF	Line Voltage
Frequency	Q.P. (dBμV)	Average (dBμV)
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 Measurement Setup (Block Diagram of Configuration)





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12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. 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 PC 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.
- 2. 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.



12.5 Measurement Results

		AC Power	Line Cond	ucted Em	ission Test		
st Mode	Mode 3			LIS	N Line	Hot S	ide
Leve	el (dBµV)			•		<u>'</u>	
80 ₋ -					-,,,-		
70		; 				i-i-i	
60					·	1 1 1	-
50 -2	√,		L		· -\	<u>i i i</u>	i
40 - 7			 		·		
30 🛂			Heridina and parties	A Visite of the second		T-TX	
20	A-v Japak por Manara	Word and the charge	de talente de la companya del la companya de la com				
10							
0 -	· 	-					
-10 <u>└</u> 15	iok 300k 400k	600k 800k 1	M 2	M 3M	4M 5M 6M	3M 10M	20M 30M
			Frequ	ency [Hz]			
ж ж ж М	ES agc_fin						
20	23/9/13 8:4 Frequency MHz	7 Level dBµV	Transd dB	fin" Limit dBµV	Margin dB	Detector	Line
20	Frequency	Level		Limit		Detector QP QP QP QP QP QP QP QP	Line L1 L1 L1 L1 L1 L1 L1
	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40	dB 6.1 6.1 6.1 6.2 6.6	Limit dBµV 65 64 64 62 56	dB 12.9 24.9 26.1 25.0 28.0	QP QP QP QP QP	L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 RESULT	dB 6.1 6.1 6.1 6.2 6.6	Limit dBµV 65 64 62 56 60	dB 12.9 24.9 26.1 25.0 28.0 30.6	QP QP QP QP QP	L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 RESULT 7 Level	dB 6.1 6.1 6.1 6.2 6.6	Limit dBµV 65 64 62 56 60 fin2 "	dB 12.9 24.9 26.1 25.0 28.0 30.6	QP QP QP QP QP	L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 RESULT	dB 6.1 6.1 6.1 6.2 6.6	Limit dBµV 65 64 62 56 60	dB 12.9 24.9 26.1 25.0 28.0 30.6	QP QP QP QP QP	L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency MHz	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 RESULT 7 Level dBµV	dB 6.1 6.1 6.2 6.6 Transd dB	Limit dBµV 65 64 62 56 60 fin2" Limit dBµV	dB 12.9 24.9 26.1 25.0 28.0 30.6 Margin dB	QP QP QP QP QP QP	L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency MHz 0.166000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 RESULT 7 Level dBµV 32.40	dB 6.1 6.1 6.2 6.6 Transd dB 6.1	Limit dBµV 65 64 64 62 56 60 fin2" Limit dBµV	dB 12.9 24.9 26.1 25.0 28.0 30.6 Margin dB 22.8	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency MHz 0.166000 0.182000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 **RESULT** 7 **Level dBµV 32.40 24.10	dB 6.1 6.1 6.2 6.6 Transd dB 6.1 6.1	Limit dBµV 65 64 62 56 60 fin2" Limit dBµV	dB 12.9 24.9 26.1 25.0 28.0 30.6 Margin dB 22.8 30.3	QP QP QP QP QP QP Detector	L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency MHz 0.166000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 **RESULT** 7 **Level dBµV 32.40 24.10 20.40	dB 6.1 6.1 6.2 6.6 Transd dB 6.1	Limit dBµV 65 64 62 56 60 fin2" Limit dBµV 55 54	12.9 24.9 26.1 25.0 28.0 30.6 Margin dB 22.8 30.3 33.1	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1 L1
м	Frequency MHz 0.166000 0.182000 0.202000 0.246000 0.510000 9.442000 EASUREMENT 23/9/13 8:4' Frequency MHz 0.166000 0.182000 0.202000	Level dBµV 52.30 39.50 37.40 36.90 28.00 29.40 **RESULT** 7 **Level dBµV 32.40 24.10	dB 6.1 6.1 6.2 6.6 Transd dB 6.1 6.1	Limit dBµV 65 64 62 56 60 fin2" Limit dBµV	dB 12.9 24.9 26.1 25.0 28.0 30.6 Margin dB 22.8 30.3	QP QP QP QP QP QP Detector AV AV	L1

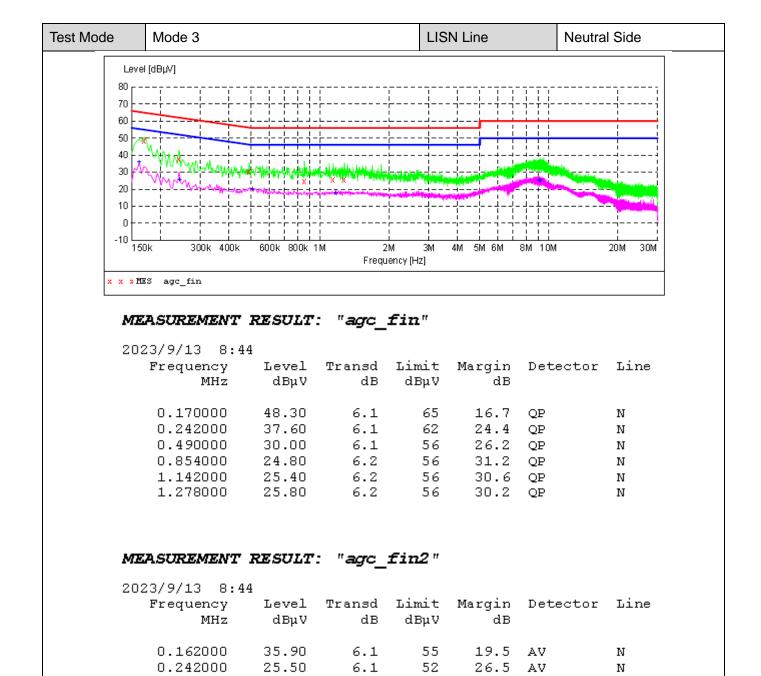
RESULT: Pass

AC Power Line Conducted Emission Test

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6.2

6.2

6.6

6.6

46

46

50

50

26.1

28.3

25.0

24.8

AV

AV

ΑV

AV

Ν

Μ

Ν

Ν

0.506000

1.170000

9.042000

9.190000

19.90

17.70

25.00

25.20



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC15798230663AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC15798230663AP02

----END OF REPORT----



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