

FCC Test Report

Report No.: AGC03285210502FE02

FCC ID : 2AMWO-FSCBT1026

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Bluetooth Module

BRAND NAME : Feasycom

MODEL NAME : FSC-BT1026

APPLICANT: Shenzhen Feasycom Technology Co., LTD

DATE OF ISSUE : Jul. 06, 2021

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9 /	Jul. 06, 2021	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Shenzhen Feasycom Technology Co., LTD		
Room 2004A, 20th Floor, Huichao Technology Building, Jinhai Road, Xixiang, Baoan District, Shenzhen, China		
Shenzhen Feasycom Technology Co., LTD		
Room 2004A, 20th Floor, Huichao Technology Building, Jinhai Road, Xixiang, Baoan District, Shenzhen, China		
Shenzhen Feasycom Technology Co., LTD		
Room 2004A, 20th Floor, Huichao Technology Building, Jinhai Road, Xixiang, Baoan District, Shenzhen, China		
Bluetooth Module		
Feasycom		
FSC-BT1026		
May 27, 2021 to Jul. 06, 2021		
No any deviation from the test method		
of Test Sample Normal		
Pass		
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	John Zerry	
	John Zeng (Project Engineer)	Jul. 06, 2021
Reviewed By	Max Zhang	
F.C.	Max Zhang (Reviewer)	Jul. 06, 2021
Approved By	Formarles	
	Forrest Lei (Authorized Officer)	Jul. 06, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Bluetooth Module". 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

2.402GHz to 2.480GHz		
GFSK 1Mbps:7.262dBm(Max) GFSK 2Mbps:7.243dBm(Max)		
V5.1		
BR⊠GFSK, EDR⊠π /4-DQPSK, ⊠8DPSK BLE⊠GFSK 1Mbps ⊠GFSK 2Mbps		
40 Channels		
PCB Antenna (Comply with requirements of the FCC part 15.203)		
2dBi		
V1.2		
V1.2.1		
DC 3.3V		

Note: All the same except for the Bluetooth chips model. (The EUT has two Bluetooth chips model. One is Bluetooth chips(QCC3024), and the one is Bluetooth chips(QCC3034). Only the test data of chips model (QCC3024) recorded in this report.)

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
0	0	2402 MHz
GC C	0 1	2404 MHz
2400~2483.5MHz		100 : CO
	38	2478 MHz
-C	39	2480 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2AMWO-FSCBT1026** 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 ±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	$U_c = \pm 3.1 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$	
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(1M)
2	Middle channel TX(1M)
3	High channel TX(1M)
4	Low channel TX(2M)
5	Middle channel TX(2M)
6	High channel TX(2M)

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.

Software Setting

BlueTest3 - Test Command Mode

Test Command

Test Argonents

CPG FRED IS

Close

Length (0-295) 37

Relp

Execute

FRED IS

FRED IS

FRED IS

CIOSE

Relp

Execute

FRED IS

CIOSE

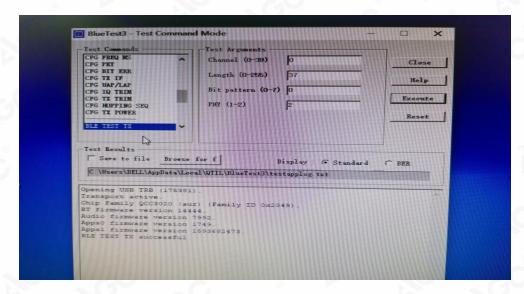
Relp

Execute

CIOSE

Reset

CIVESTENDELLAPPDATA LOCAL QUILL (Reluctesta) test applicated to the command of the comman



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Attestation of Global Compliance(Shenzhen)Co., Ltd

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

EUT	GC O	AE
onducted Emission C	onfigure	e:

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Module	FSC-BT1026	2AMWO-FSCBT1026	EUT
2	Control Box	N/A	USB-TRBI200	AE
3	PC Adapter	ADC6501TM	N/A	AE
4	PC	16301-01	N/A	AE
5	Charger line	N/A	0.6m unshielded	AE

ΑE

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)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	15.209 Radiated Emission	
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	Rohde & Schwarz	ESPI	101206	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
LISN	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	Rohde & Schwarz	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
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	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE(Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

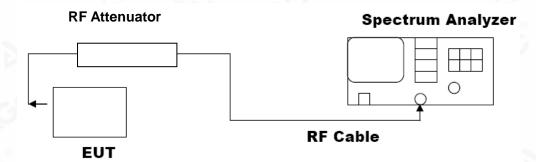
7.1. MEASUREMENT PROCEDURE

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



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7.3. LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
8	2402	6.523	≤30	Pass	
GFSK 1M	2440	6.983	≤30	Pass	
	2480	7.262	≤30	Pass	

	Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
8	2402	6.513	≪30	Pass	
GFSK 2M	2440	6.950	≤30	Pass	
	2480	7.243	≤30	Pass	

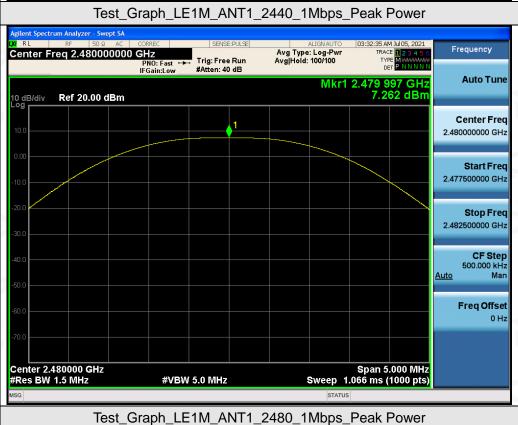
Test Graphs of Conducted Output Power



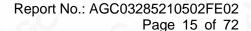
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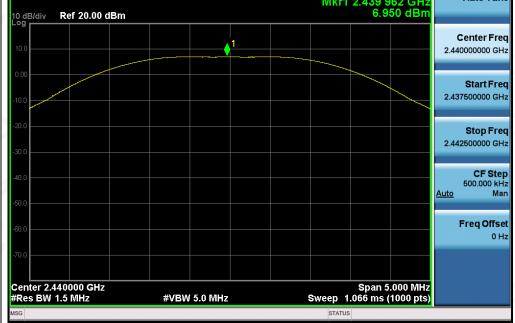


Test Graphs of Conducted Output Power-



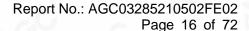


Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power



Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power

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g/Inspection
The test results
If the test report.





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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 ≥ 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.
- 3. 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
- 4. 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)

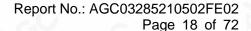
The same as described in section 7.2.

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
60	2402	1.041	0.713	≥0.5	Pass
GFSK 1M	2440	1.039	0.708	≥0.5	Pass
	2480	1.039	0.708	≥0.5	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel 99% Occupied -6dB Limits (MHz) Bandwidth (MHz) Bandwidth (MHz) (MHz) Pass or Fa					
0 20	2402	2.055	1.203	≥0.5	Pass	
GFSK 2M	2440	2.051	1.207	≥0.5	Pass	
0	2480	2.049	1.201	≥0.5	Pass	

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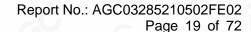


Test Graphs of Occupied Bandwidth





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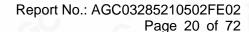




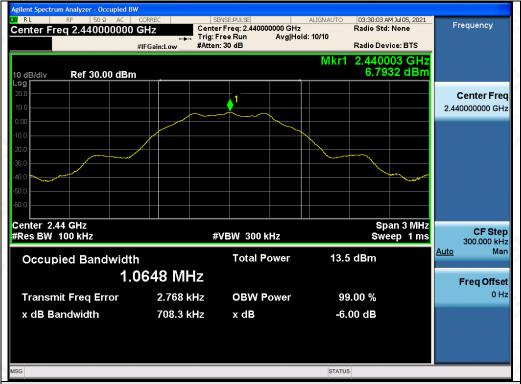


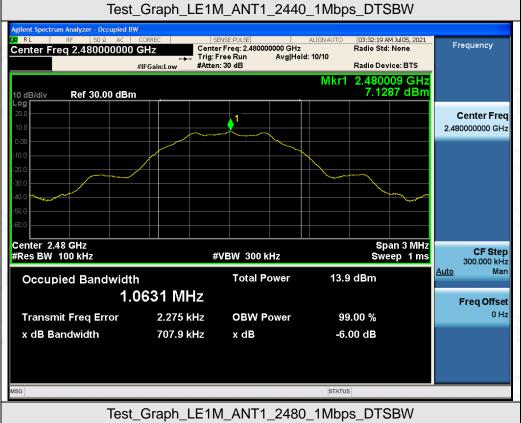


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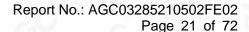








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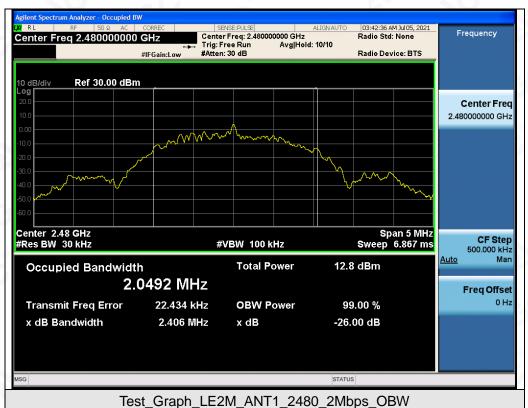
Test Graphs of Occupied Bandwidth

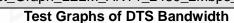




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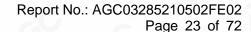




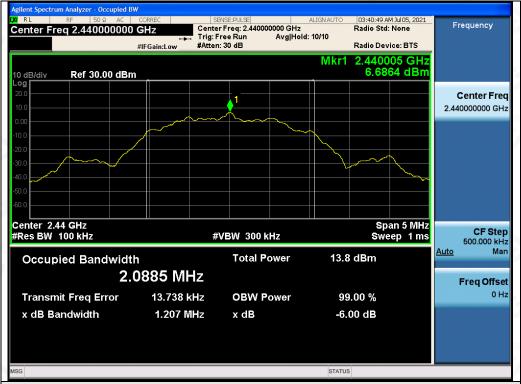




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9. CONDUCTED SPURIOUS EMISSION

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.

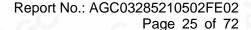
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Annilo alda I inside	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			

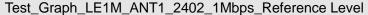
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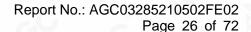
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands







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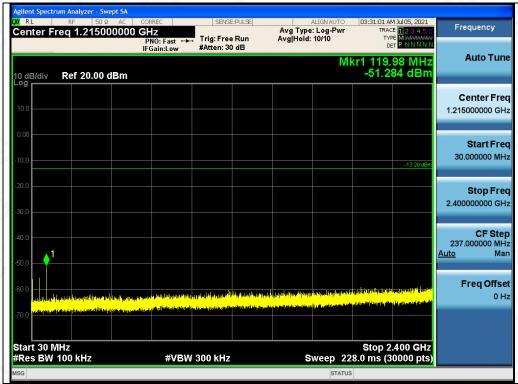






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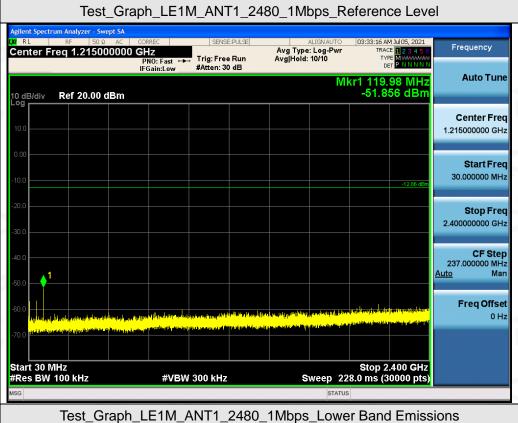




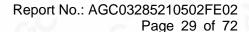
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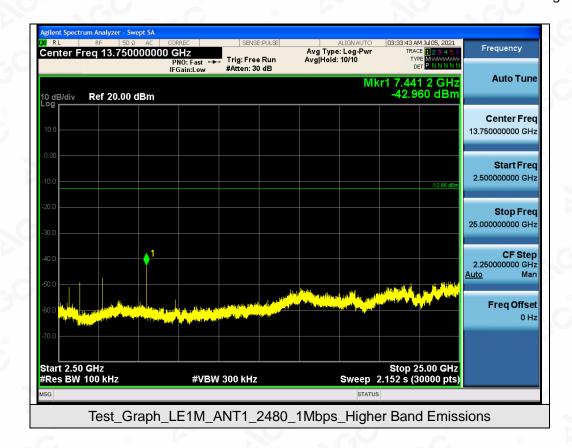


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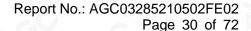


g/Inspection
The test results
If the test report.





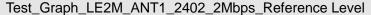
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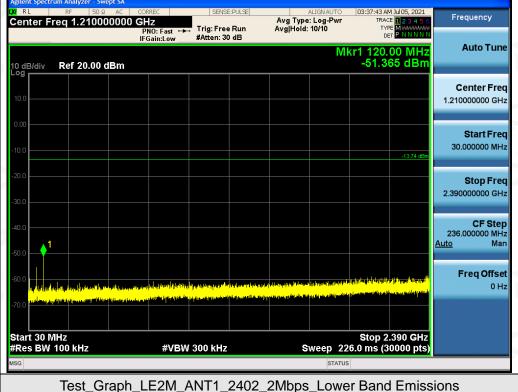




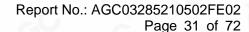
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands







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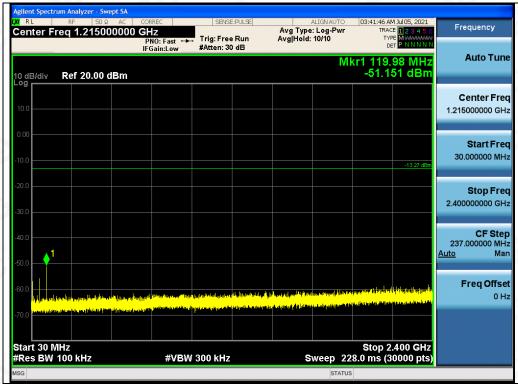


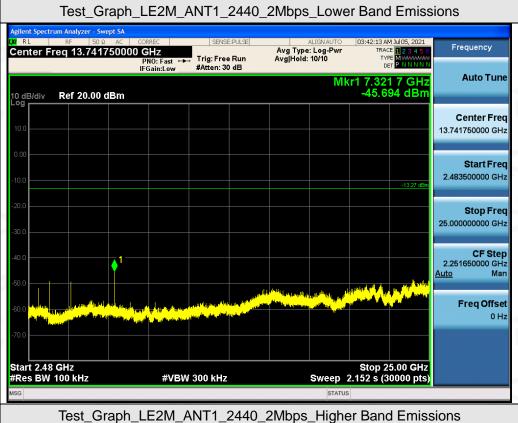




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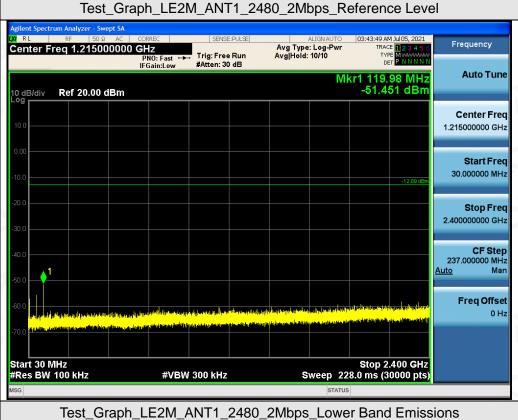




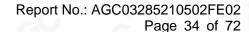
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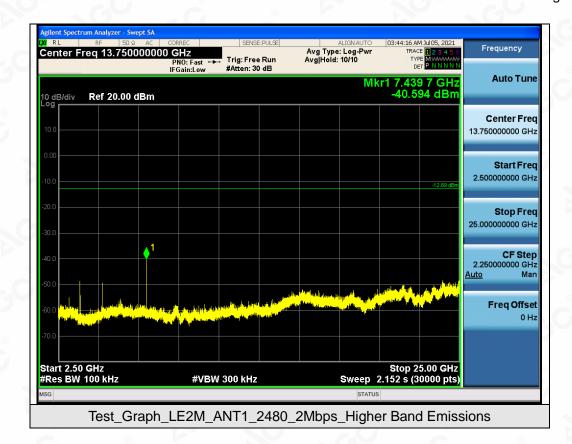


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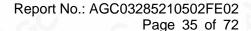


g/Inspection
The test results
If the test report.



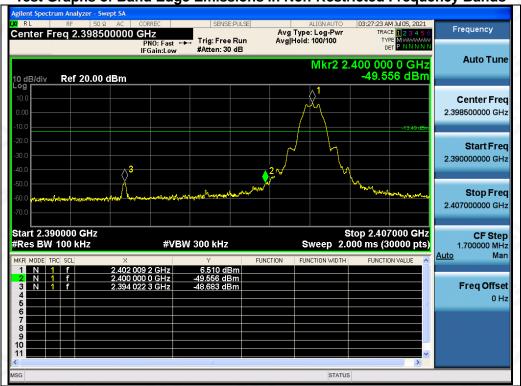


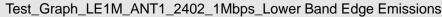
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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

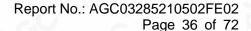






Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

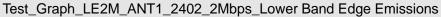
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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands







Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

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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 Power density Limit (MHz) (dBm/3kHz) Pass or Fail					
	2402	-8.330	≤8	Pass	
GFSK 1M	2440	-7.946	≪8	Pass	
	2480	-7.859	≤8	Pass	

Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
	2402	-11.351	≤8	Pass
GFSK 2M	2440	-10.898	≤8	Pass
	2480	-10.500	◎ ≤8	Pass

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