

RF Test Report

For

Applicant Name: Shenzhen DOOGEE Hengtong Technology CO.,LTD

Address: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.

22, Longhua New District, Shenzhen, China

EUT Name: Tablet
Brand Name: DOOGEE
Model Number: Tab E3 Max

Tab E3 Max VIP Edition, Tab E3 Pro,

Series Model Tab E3 Pro VIP Edition, Tab E3 Pro+, Tab E3 Pro+ VIP Edition,

Number: Tab E3 Pro Max, Tab E3 Pro Max VIP Edition, Tab E3 Ultra,

Tab E3 Power

FCC ID: 2AX4YTABE3MAX

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.

Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou

Community, Songgang Subdistrict, Bao'an District, Shenzhen, China

Report number: BTF250514R00702

Test standards: FCC CFR Title 47 Part 15 Subpart C (§15.247)

Test conclusion: Pass

Prepared by:

Date of sample 2025-03-31

receipt: 2025-03-

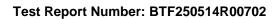
Test date: 2025-04-01 to 2025-05-22

Date of issue: 2025-05-23

Test by: Sean He / Tester

Chris Liu/ Project engineer * * Fyan.CJ /EMC manager

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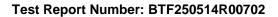


Revision History					
Version	Issue Date	Revisions Content			
R_V0 2025-05-23		Original			
Note: Once the revision has been made, then previous versions reports are invalid.					



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Test Report Number: BTF250514R00702

1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Phone number:	+86-0755-23146130	
Fax number:	+86-0755-23146130	

1.2 Laboratory Facility

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

FCC - Designation No.: CN1409

BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 518915.

CNAS - Registration No.: CNAS L17568

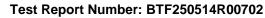
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

A2LA - Registration No.: 6660.01

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
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- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2 Product Information

2.1 Application Information

Company Name: Shenzhen DOOGEE Hengtong Technology CO.,LTD	
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

2.2 Manufacturer Information

Company Name:	Name: Shenzhen DOOGEE Hengtong Technology CO.,LTD			
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China			

2.3 Factory Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name	Tablet	
Under test model name	Tab E3 Max	
Series model name	Tab E3 Max VIP Edition, Tab E3 Pro, Tab E3 Pro VIP Edition, Tab E3 Pro+, Tab E3 Pro+ VIP Edition, Tab E3 Pro Max, Tab E3 Pro Max VIP Edition, Tab E3 Ultra, Tab E3 Power	
Description of model name differentiation	There is no difference except the name of the model	
Hardware Version	M100TCER100-TC67DG	
Software Version	DOOGEE-Tab E3 Max-EEA-Android15.0	
Rating:	DC 3.87V from battery or DC 9V from Fast Charger	

2.5 Technical Information

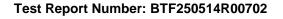
Operation frequency:	2402MHz ~ 2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Data rate:	1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY)
Max. Conducted Peak Power Power:	7.01dBm
Antenna type: PIFA Antenna	
Antenna gain: 2.23 dBi (declare by Applicant)	
Antenna transmit mode: SISO (1TX, 1RX)	
	Manufacturer: Shenzhen Huajin Electronics Co.,LTD
	Model: HJ-PD18W-US
Fast Charger	Input: AC100-240V~ 50/60Hz 0.6A
	Output: 5.0V-3.0A 15.0W OR 9.0V-2.0A 18.0W OR 12.0V-1.5A
	18.0W MAX





Channel List:

Onamio Lioti							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							





3 Summary of Test Results

3.1 Test Standards

Identity	Document Title		
FCC CFR Title 47 Part 15 Subpart C (§15.247)	Intentional Radiators - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.		
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices		
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules		

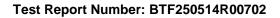
3.2 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Supply voltages	±3 %
Time	±5 %
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB

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

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass





Test Configuration

Test Equipment List

	Radiated test method						
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due		
EMI Receiver	Rohde &Schwarz	ESCI7	101032	2024/10/25	2025/10/24		
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2024/10/25	2025/10/24		
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2024/10/28	2025/10/27		
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2024/09/24	2025/09/23		
Horn Antenna (1GHz ~18GHz)	Schwarzbeck	BBHA9120D	2597	2024/10/30	2025/10/29		
Horn Antenna (15GHz ~ 40GHz)	SCHWARZBECK	BBHA9170	1157	2024/10/24	2025/10/23		
Preamplifier (1GHz ~ 40GHz)	TST Pass	LNA10180G45	246	2024/09/24	2025/09/23		
Test Software	Frad	EZ_EMC		Version: FA-03	A2 RE+		

	Conducted Emission Test							
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due			
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2024/10/25	2025/10/24			
V-LISN	Schwarzbeck	NSLK 8127	01073	2024/10/25	2025/10/24			
Coaxial Switcher	Schwarzbeck	CX210	CX210	2024/10/25	2025/10/24			
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	2024/10/25	2025/10/24			
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+					

	Con	ducted test meth	od			
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	
Spectrum Analyzer	Keysight	N9020A	MY50410020	2024/10/25	2025/10/24	
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2024/10/25	2025/10/24	
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2024/10/25	2025/10/24	
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2024/10/25	2025/10/24	
Temperature Humidity Chamber	ZZCKONG	ZZ-K02A	20210928007	2024/10/25	2025/10/24	
DC Power Supply	Tongmen	etm-6050c	20211026123	2024/10/25	2025/10/24	
RF Control Unit	Techy	TR1029-1	/	2024/10/25	2025/10/24	
RF Sensor Unit	Techy	TR1029-2	/	2024/10/25	2025/10/24	
Test Software	TST Pass	/	Version: 2.0			

4.2 Test Auxiliary Equipment

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Fast Charger	Shenzhen Huajin Electronics Co.,LTD	HJ-PD18W-US	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A

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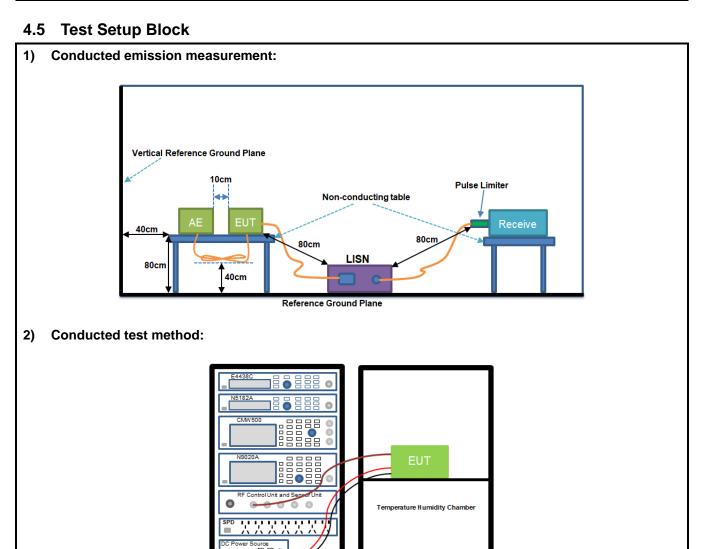


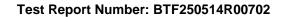
4.3 Test Modes

No.	Test Modes	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.

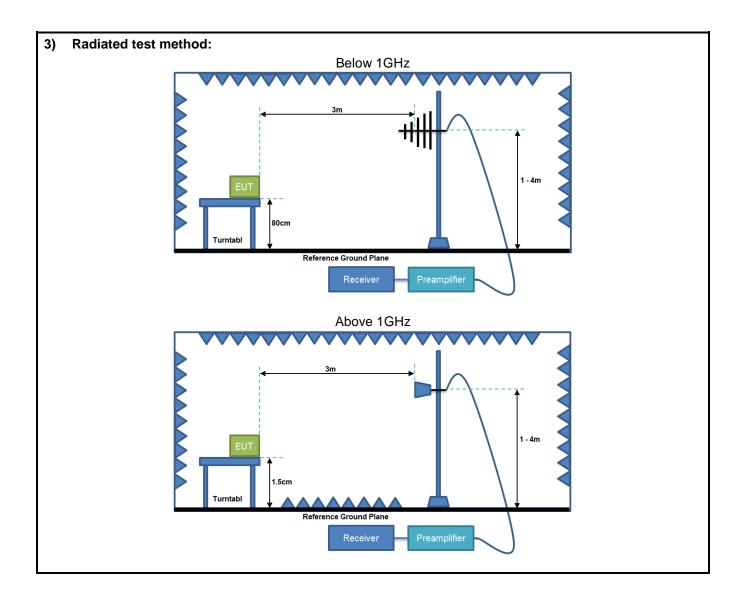
4.4 Test software

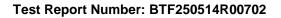
Test software:	Engineering mode	Version:	DOOGEE-Tab E3 Max-EEA-Android15.0
Power Class:	Default		













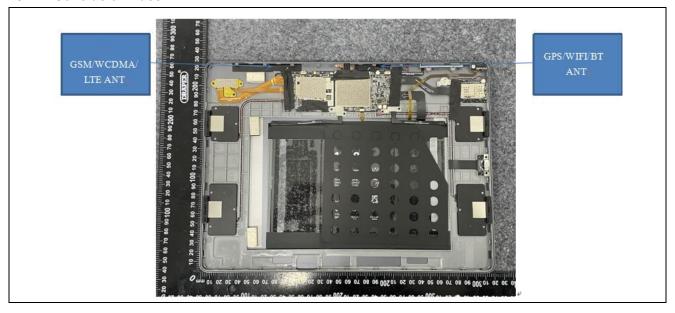
5 Evaluation Results (Evaluation)

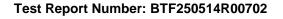
5.1 Antenna requirement

Test 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 shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:Pass







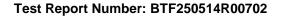
Radio Spectrum Matter Test Results (RF) 6

Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).					
Test Method:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					
	Frequency of emission (MHz)	Conducted limit (dBµ	V)			
	,	Quasi-peak	Average			
Test Limit:	0.15-0.5	66 to 56*	56 to 46*			
rest Limit.	0.5-5	56	46			
	5-30	60 50				
	*Decreases with the logarithm of the frequency.					

6.1.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25 °C	
Humidity:	49.5 %	
Atmospheric Pressure:	1010 hpa	
Test Voltage	AC 120V 60Hz	



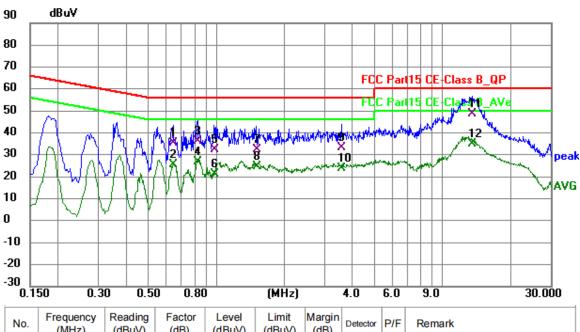


6.1.2 Test Setup

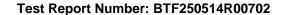
See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.1.3 Test Data:

TM1 / Line: Line / Band: GFSK 1M 2402MHz

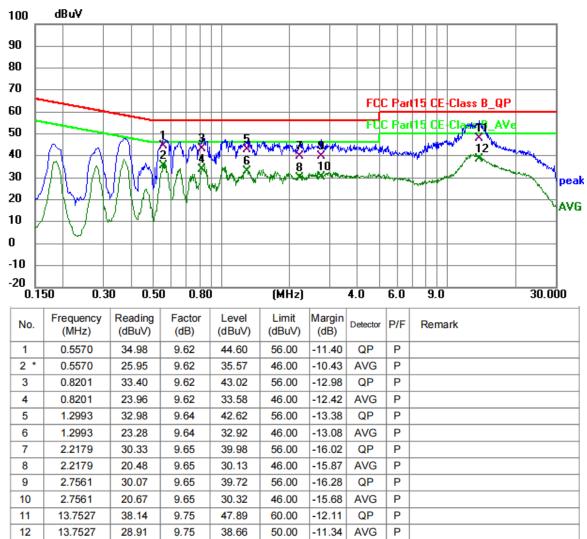


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6450	25.92	9.63	35.55	56.00	-20.45	QP	Р	
2	0.6450	15.67	9.63	25.30	46.00	-20.70	AVG	Р	
3	0.8287	26.38	9.63	36.01	56.00	-19.99	QP	Р	
4	0.8287	17.21	9.63	26.84	46.00	-19.16	AVG	Р	
5	0.9796	22.63	9.64	32.27	56.00	-23.73	QP	Р	
6	0.9796	11.49	9.64	21.13	46.00	-24.87	AVG	Р	
7	1.5084	22.75	9.64	32.39	56.00	-23.61	QP	Р	
8	1.5084	15.03	9.64	24.67	46.00	-21.33	AVG	Р	
9	3.5800	23.46	9.67	33.13	56.00	-22.87	QP	Р	
10	3.5800	14.28	9.67	23.95	46.00	-22.05	AVG	Р	
11 *	13.4917	38.70	9.74	48.44	60.00	-11.56	QP	Р	
12	13.4917	25.34	9.74	35.08	50.00	-14.92	AVG	Р	

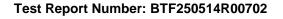








Note:Margin=Level-Limit=Reading+factor-Limit





6.2 Occupied Bandwidth

Test Requirement:	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	DTS bandwidth
Test Limit:	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 x RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

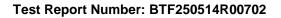
6.2.1 E.U.T. Operation:

Operating Environment:		
Temperature:	23.7 °C	
Humidity:	53.4 %	
Atmospheric Pressure:	1010 hpa	
Test Voltage	AC 120V 60Hz	

6.2.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.2.3 Test Data:





6.3 Maximum Conducted Output Power

Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	Maximum peak conducted output power
Test Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

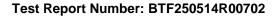
6.3.1 E.U.T. Operation:

Operating Environment:				
Temperature: 23.7 °C				
Humidity:	53.4 %			
Atmospheric Pressure:	1010 hpa			

6.3.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.3.3 Test Data:





6.4 Power Spectral Density

Test Requirement:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	Maximum power spectral density level in the fundamental emission
Test Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

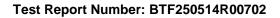
6.4.1 E.U.T. Operation:

Operating Environment:				
Temperature: 23.7 °C				
Humidity:	53.4 %			
Atmospheric Pressure:	1010 hpa			

6.4.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.4.3 Test Data:





6.5 Emissions in non-restricted frequency bands

Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Emissions in nonrestricted frequency bands
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

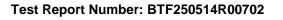
6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature: 23.7 °C					
Humidity:	53.4 %				
Atmospheric Pressure:	1010 hpa				
Test Voltage	AC 120V 60Hz				

6.5.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.5.3 Test Data:





6.6 Band edge emissions (Radiated)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Method:	Radiated emissions tests							
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300					
	1.705-30.0	30	30					
	111 00 0010	100 **						
Took I limit.	30-88		3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.							
Procedure:	ANSI C63.10-2020 section	on 6.10.5.2						

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C				
Humidity:	54.8 %				
Atmospheric Pressure:	1010 hpa				
Test Voltage	AC 120V 60Hz				



Test Report Number: BTF250514R00702

6.6.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.6.3 Test Data:

Remark: During the test, pre-scan 1M, 2M mode, found 2M was worse case mode. The report only reflects the test data of worst mode.

	1001 0010	or worst mic	est Results	PASS							
		Fred	quency Range		2310MHz~2410MHz						
		-	Test Mode		2Mbps: GFSK TX 2402MHz						
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark			
1	2390	Н	74.39	-21.47	52.92	74.00	-21.08	Peak			
2	2390	Н		-21.47		54.00		Avg			
3	2400	Н	79.31	-26.12	53.19	74.00	-20.81	Peak			
4	2400	Н		-26.12		54.00		Avg			
1	2390	V	75.02	-21.47	53.55	74.00	-20.45	Peak			
2	2390	V		-21.47		54.00		Avg			
3	2400	V	79.24	-26.12	53.12	74.00	-20.88	Peak			
4	2400	V		-26.12		54.00		Avg			
	Т	est Results			PASS						
	Fred	quency Ran	ge	2450MHz~2550MHz							
Test Mode				2Mbps: GFSK TX 2480MHz							
1	2483.5	Н	78.46	-25.29	53.17	74.00	-20.83	Peak			
2	2483.5	Н		-25.29		54.00		Avg			
1	2483.5	V	79.18	-25.29	53.89	74.00	-20.11	Peak			
2	2483.5	V		-25.29		54.00		Avg			
2	2483.5	V		-25.29		54.00		Avg			

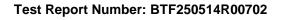
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Margin= Result-Limit.

Note: Margin=Level-Limit=Reading+factor-Limit

^{2.} Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor.

^{3.} If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.



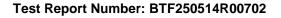


6.7 RADIATED EMISSIONS (below 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`								
Test Method:	Radiated emissions tests								
	0.009-0.490	Field strength (microvolts/meter) 2400/F(kHz)	Measurement distance (meters)						
	0.490-1.705	24000/F(kHz)	30						
	1.705-30.0	30	30						
	30-88	100 **	3						
Test Limit:	88-216	150 **	3						
	216-960	200 **	3						
	Above 960	500	3						
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.								
Procedure:	ANSI C63.10-2020 section	ANSI C63.10-2020 section 6.6.4							

6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C				
Humidity:	54.8 %				
Atmospheric Pressure:	1010 hpa				
Test Voltage	AC 120V 60Hz				



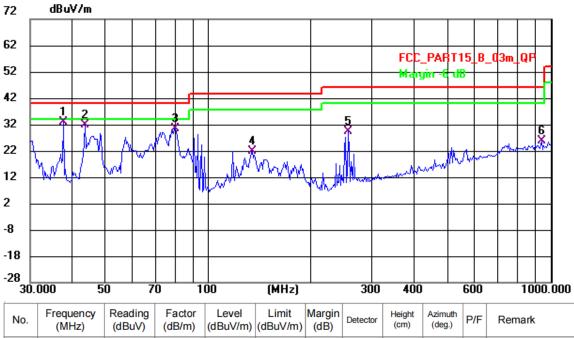


6.7.2 Test Setup

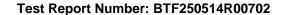
See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.7.3 Test Data:

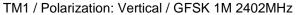
TM1 / Polarization: Horizontal / Band: GFSK 1M 2402MHz

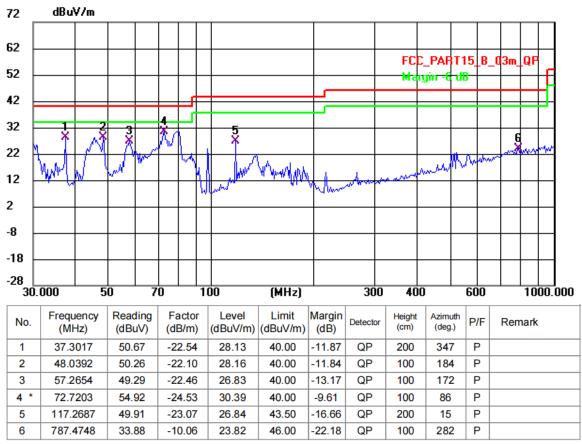


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	37.5648	55.33	-22.49	32.84	40.00	-7.16	QP	200	301	Р	
2	43.5380	54.17	-22.18	31.99	40.00	-8.01	QP	200	249	Р	
3	79.6764	56.13	-25.82	30.31	40.00	-9.69	QP	100	11	Р	
4	134.0194	43.75	-21.90	21.85	43.50	-21.65	QP	100	23	Р	
5	255.8226	52.80	-23.33	29.47	46.00	-16.53	QP	200	353	Р	
6	938.7139	34.06	-8.47	25.59	46.00	-20.41	QP	200	172	Р	









Note:Margin=Level-Limit=Reading+factor-Limit



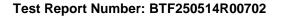


6.8 RADIATED EMISSIONS (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`						
Test Method:	Radiated emissions tests						
Test Limit:	0.009-0.490	Field strength (microvolts/meter) 2400/F(kHz)	Measurement distance (meters) 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				
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.						
Procedure:	ANSI C63.10-2020 section 6.6.4						

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.6 °C		
Humidity:	54.8 %		
Atmospheric Pressure:	1010 hpa		
Test Voltage	AC 120V 60Hz		





6.8.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

6.8.3 Test Data:

Remark: During the test, pre-scan 1M, 2M mode, found 2M was worse case mode. The report only reflects the test data of worst mode.

Test Mode: GFSK TX Low										
No.	Freq	Polarity	Reading	Correct	Result	Limit	Manaia Da	Damasılı		
	MHz		(dBuV/m)	Factor	(dBuV/m)	(dBuV/m)	Margin	Remark		
1	4804	V	88.07	-27.21	60.86	74	-13.14	Peak		
2	4804	V	69.19	-27.21	41.98	54	-12.02	Avg		
3	7206									
4	9608					-				
5	4804	Н	90.29	-27.21	63.08	74	-10.92	Peak		
6	4804	Н	68.37	-27.21	41.16	54	-12.84	Avg		
7	7206			-						
8	9608									
Test Mode: GFSK TX Mid										
1	4880	V	90.40	-27.84	62.56	74	-11.44	Peak		
2	4880	V	71.01	-27.84	43.17	54	-10.83	Avg		
3	7320									
4	9760									
5	4880	Н	90.68	-27.84	62.84	74	-11.16	Peak		
6	4880	Н	72.34	-27.84	44.50	54	-9.50	Avg		
7	7320					-				
8	9760									
Test Mode: GFSK TX High										
1	4960	V	90.23	-28.49	61.74	74	-12.26	Peak		
2	4960	V	69.37	-28.49	40.88	54	-13.12	Avg		
3	7440									
4	9920									
5	4960	Н	90.83	-28.49	62.34	74	-11.66	Peak		
6	4960	Н	69.13	-28.49	40.64	54	-13.36	Avg		
7	7440									
8	9920									

Note:Margin=Level-Limit=Reading+factor-Limit



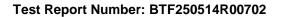
Test Report Number: BTF250514R00702

Test Setup Photos

Please refer to the Appendix I Test Setup Photos

EUT Constructional Details (EUT Photos) 8

Please refer to the Appendix II External Photos & Appendix III Internal Photos







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-- END OF REPORT --