

RF Test Report

For

Applicant Name: SHENZHEN AMS COMMUNICATIONS COMPANY LIMITED

Address: 5F, Unit B, Building 1#, Hongfa Industrial Park, Lezhujiao, Jiuwei

Community, Hangcheng Street, Baoan District, Shenzhen, China

EUT Name: Mobile Phone

Brand Name: MAZE SPEED, SOHO STYLE, LUSH MINT, TRUE SLIM, LIST MINT,

MINT MIST
Model Number: M1586K

Series Model Number: Refer to section 2

Issued By

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

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF230801R00401 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2A55S-M1586K

Test Date: 2023-08-01 to 2023-08-15

Date of Issue: 2023-08-16

Prepared By:

Approved By:

Chris Liu / Profect Engineer

Date: 2023-08-16

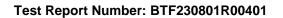
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Ryan.CJ / EMC Manager

Date: 2023-08-16

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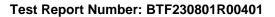


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-08-16	Original	
Note: Once the revision has been made, then previous versions reports are invalid			



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1 Introduction

1.1 Identification of Testing Laboratory

Company Name: 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 Identification of the Responsible Testing Location

Company Name:	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
FCC Registration Number:	518915
Designation Number:	CN1330

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.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



Test Report Number: BTF230801R00401



2 Product Information

2.1 Application Information

Company Name:	SHENZHEN AMS COMMUNICATIONS COMPANY LIMITED
Address:	5F, Unit B, Building 1#, Hongfa Industrial Park, Lezhujiao, Jiuwei Community, Hangcheng Street, Baoan District, Shenzhen, China

2.2 Manufacturer Information

Company Name:	SHENZHEN AMS COMMUNICATIONS COMPANY LIMITED
Address:	5F, Unit B, Building 1#, Hongfa Industrial Park, Lezhujiao, Jiuwei Community,
	Hangcheng Street, Baoan District, Shenzhen, China

2.3 Factory Information

Company Name:		SHENZHEN AMS COMMUNICATIONS COMPANY LIMITED
Ad	Address:	5F, Unit B, Building 1#, Hongfa Industrial Park, Lezhujiao, Jiuwei Community,
	Address.	Hangcheng Street, Baoan District, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Mobile Phone
Test Model Number:	M1586K
Series Model Number:	S1586K, L1586K, T1586K, LT58K, MT58K
Description of Model name differentiation:	Only the model name and brand name are different, others are the same.
Hardware Version:	Q112_MB_V2.0
Software and Firmware Version	MAZE SPEED_M1582C_V1.0_20220225

2.5 Technical Information

Power Supply:	DC 3.7V from Battery
Power Adaptor:	Input: 100-240V AC. 50/60Hz Output: 5V 1000mA
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	PIFA ANT
Antenna Gain [#] :	1.37dBi
Mata.	

Note

^{#:} The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.



Test Report Number: BTF230801R00401



3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

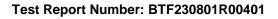
3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
Occupied Bandwidth	±69kHz
Transmitter Power, Conducted	±0.87dB
Conducted Spurious Emissions	±0.95dB
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB

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

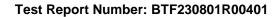
Test Equipment List

Conducted Emission	at AC power line				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23

Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	1	V1.00	1	/	/
RF Control Unit	Techy	TR1029-1	1	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Maximum Conducted	Output Power				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	1	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Power Spectral Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	1	V1.00	/	/	/



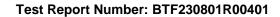


RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emissions in non-restricted frequency bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	1	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Band edge emissions	Band edge emissions (Radiated)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/	
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27	
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23	
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23	

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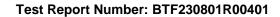




POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	1
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	1	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricte	Emissions in restricted frequency bands (below 1GHz)				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	80000	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (above 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23	





POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	1
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

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4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation.

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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.
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6 Radio Spectrum Matter Test Results (RF)

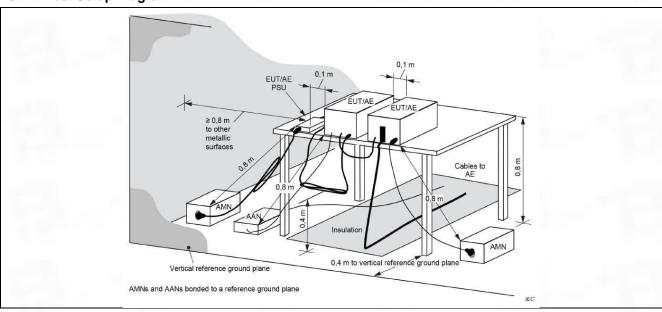
6.1 Conducted Emission at AC power line

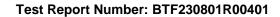
	•			
Test Requirement:	Except as shown in paragraphs (by that is designed to be connected to frequency voltage that is conducted or frequencies, within the band 15 the following table, as measured ustabilization network (LISN).	o the public utility (AC) ed back onto the AC po 0 kHz to 30 MHz, shall	power line, the radio wer line on any frequence not exceed the limits in	
Test Method:		Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dl	BμV)	
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	*Decreases with the logarithm of t	he frequency.		

6.1.1 E.U.T. Operation:

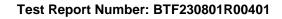
Operating Environment:	
Temperature:	24.9 °C
Humidity:	50.3 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:





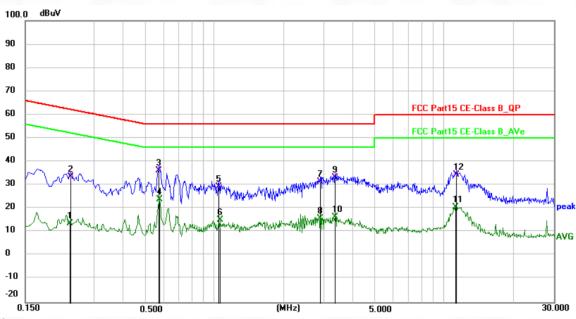




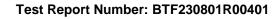


6.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 1 / CH: M

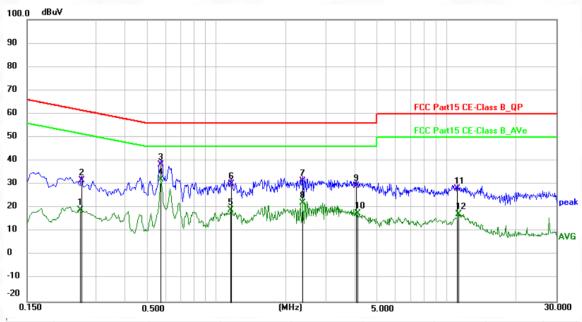


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.235300	3.63	10.20	13.83	52.26	-38.43	AVG	Р
2	0.235500	23.21	10.20	33.41	62.25	-28.84	QP	Р
3 *	0.573000	26.10	10.26	36.36	56.00	-19.64	QP	Р
4	0.577500	13.57	10.25	23.82	46.00	-22.18	AVG	Р
5	1.045500	19.12	10.25	29.37	56.00	-26.63	QP	Р
6	1.059000	5.04	10.25	15.29	46.00	-30.71	AVG	Р
7	2.890500	21.28	10.28	31.56	56.00	-24.44	QP	Р
8	2.890500	5.68	10.28	15.96	46.00	-30.04	AVG	Р
9	3.358500	22.83	10.28	33.11	56.00	-22.89	QP	Р
10	3.358500	6.21	10.28	16.49	46.00	-29.51	AVG	Р
11	11.220000	10.27	10.27	20.54	50.00	-29.46	AVG	Р
12	11.283000	24.28	10.27	34.55	60.00	-25.45	QP	Р

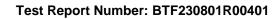








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.253500	9.09	10.16	19.25	51.64	-32.39	AVG	Р
2	0.258000	21.50	10.16	31.66	61.50	-29.84	QP	Р
3	0.573000	28.22	10.26	38.48	56.00	-17.52	QP	Р
4 *	0.573000	21.67	10.26	31.93	46.00	-14.07	AVG	Р
5	1.153500	8.76	10.27	19.03	46.00	-26.97	AVG	Р
6	1.162500	19.95	10.27	30.22	56.00	-25.78	QP	Р
7	2.368500	21.17	10.27	31.44	56.00	-24.56	QP	Р
8	2.368500	11.96	10.27	22.23	46.00	-23.77	AVG	Р
9	4.060500	19.28	10.22	29.50	56.00	-26.50	QP	Р
10	4.105500	7.41	10.22	17.63	46.00	-28.37	AVG	Р
11	11.103000	17.76	10.29	28.05	60.00	-31.95	QP	Р
12	11.269500	7.06	10.28	17.34	50.00	-32.66	AVG	Р





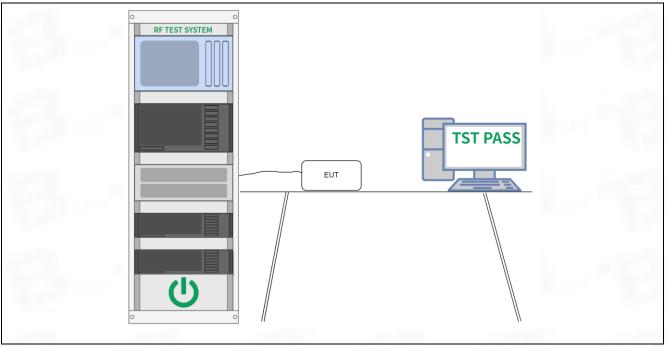
6.2 Occupied Bandwidth

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:

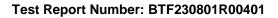
Operating Environment:	
Temperature:	25.4 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.



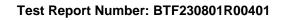


6.3 Maximum Conducted Output Power

	·
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 C63.10-2013, section 11.9.1 Maximum peak conducted output power

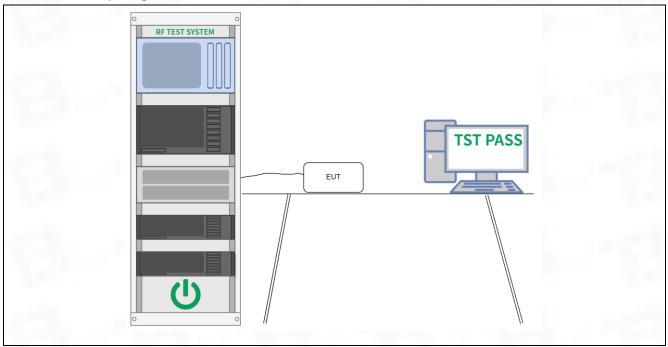
6.3.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.4 °C	
Humidity:	48.7 %	
Atmospheric Pressure:	1010 mbar	



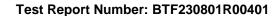


6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.





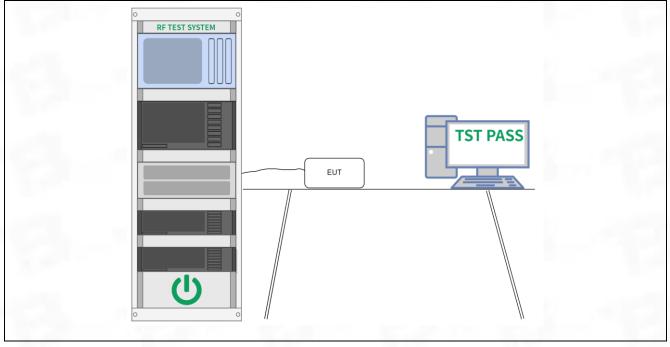
6.4 Power Spectral Density

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:

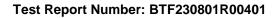
Operating Environment:	
Temperature:	25.4 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.



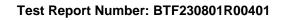


6.5 Emissions in non-restricted frequency bands

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 C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

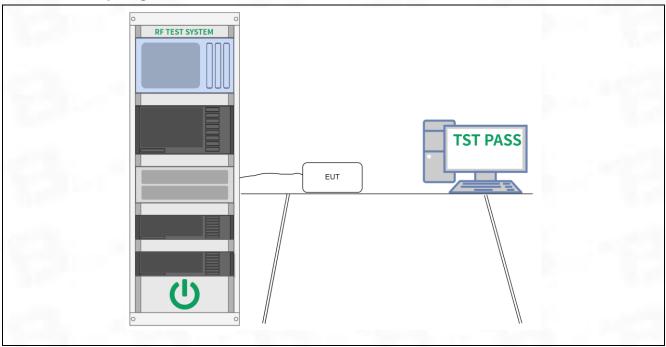
6.5.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.4 °C	
Humidity:	48.7 %	
Atmospheric Pressure:	1010 mbar	



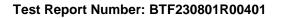


6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



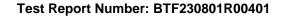


6.6 Band edge emissions (Radiated)

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 test	Radiated emissions tests						
	Frequency (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					
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 C63.10-2013 secti	ion 6.6.4						

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	47.5 %
Atmospheric Pressure:	1010 mbar





6.6.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	40.94	-0.28	40.66	74.00	-33.34	peak	Р
2	2390.000	40.83	-0.24	40.59	74.00	-33.41	peak	Р
3 *	2400.000	54.45	-0.24	54.21	74.00	-19.79	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

	Г	Deeding	Faster	Laural	Lineit	Massis		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	44.34	-1.68	42.66	74.00	-31.34	peak	Р
2	2390.000	43.23	-1.64	41.59	74.00	-32.41	peak	Р
3 *	2400.000	53.85	-1.64	52.21	74.00	-21.79	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	42.21	-0.21	42.00	74.00	-32.00	peak	P
2	2500.000	40.44	-0.20	40.24	74.00	-33.76	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

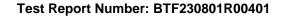
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	43.61	-1.61	42.00	74.00	-32.00	peak	Р
2	2500.000	41.84	-1.60	40.24	74.00	-33.76	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	39.44	-0.28	39.16	74.00	-34.84	peak	P
2	2390.000	38.83	-0.24	38.59	74.00	-35.41	peak	Р
3 *	2400.000	52.45	-0.24	52.21	74.00	-21.79	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	42.44	-0.28	42.16	74.00	-31.84	peak	Р
2	2390.000	42.33	-0.24	42.09	74.00	-31.91	peak	P
3 *	2400.000	50.95	-0.24	50.71	74.00	-23.29	peak	Р





TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	44.71	-0.21	44.50	74.00	-29.50	peak	Р
2	2500.000	42.94	-0.20	42.74	74.00	-31.26	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

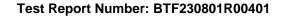
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	38.71	-0.21	38.50	74.00	-35.50	peak	Р
2	2500.000	37.94	-0.20	37.74	74.00	-36.26	peak	Р

6.7 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	15.205(a), must also cor	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 test	Radiated emissions tests							
	Frequency (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						
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 C63.10-2013 secti	on 6.6.4							

6.7.1 E.U.T. Operation:

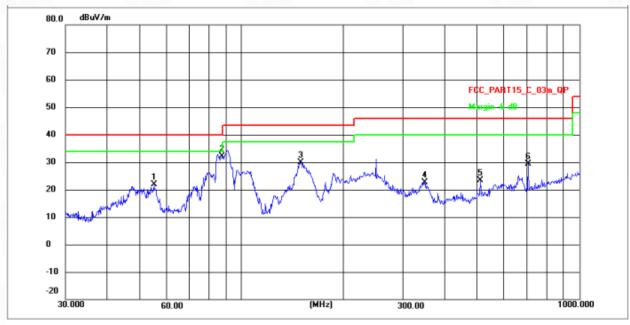
Operating Environment:	Operating Environment:							
Temperature:	23.4 °C							
Humidity:	47.5 %							
Atmospheric Pressure:	1010 mbar							



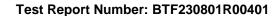


6.7.2 Test Data:

Note: All the mode have been tested, and only the worst mode are in the report TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

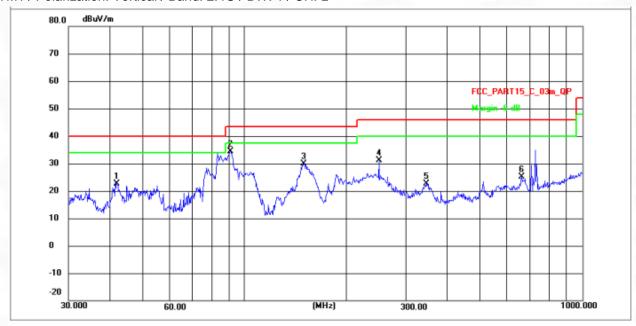


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	54.9310	35.82	-13.98	21.84	40.00	-18.16	peak	Р
2 *	87.4177	59.89	-27.84	32.05	40.00	-7.95	peak	P
3	149.4857	57.11	-27.25	29.86	43.50	-13.64	peak	Р
4	348.0274	48.86	-26.17	22.69	46.00	-23.31	peak	P
5	510.0436	48.90	-25.43	23.47	46.00	-22.53	peak	P
6	706.6999	54.07	-24.81	29.26	46.00	-16.74	peak	Р

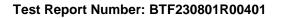








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	41.8596	37.63	-14.90	22.73	40.00	-17.27	peak	Р
2 *	90.6963	62.14	-27.82	34.32	43.50	-9.18	peak	P
3	149.4857	57.11	-27.25	29.86	43.50	-13.64	peak	Р
4	250.3012	57.85	-26.70	31.15	46.00	-14.85	peak	P
5	344.9898	48.75	-26.20	22.55	46.00	-23.45	peak	P
6	662.3106	49.98	-24.92	25.06	46.00	-20.94	peak	Р



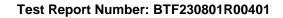


6.8 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:		ssions which fall in the restrictemply with the radiated emission (c)).`						
Test Method:	Radiated emissions test	S						
	Frequency (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					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	radiators operating unde 54-72 MHz, 76-88 MHz,	** 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 C63.10-2013 secti	on 6.6.4						

6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	47.5 %
Atmospheric Pressure:	1010 mbar





6.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2878.583	70.54	-31.02	39.52	74.00	-34.48	peak	Р
2	4003.181	72.16	-33.60	38.56	74.00	-35.44	peak	Р
3	4985.176	75.16	-32.63	42.53	74.00	-31.47	peak	Р
4	6334.941	77.47	-31.83	45.64	74.00	-28.36	peak	Р
5 *	9258.909	81.68	-33.51	48.17	74.00	-25.83	peak	Р
6	12262.311	81.94	-34.02	47.92	74.00	-26.08	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

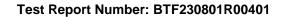
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3506.823	72.45	-33.30	39.15	74.00	-34.85	peak	Р
2	4970.787	74.33	-32.66	41.67	74.00	-32.33	peak	Р
3	6333.110	77.31	-31.83	45.48	74.00	-28.52	peak	Р
4	7946.135	77.92	-34.28	43.64	74.00	-30.36	peak	Р
5	9569.074	81.49	-33.35	48.14	74.00	-25.86	peak	Р
6 *	13446.694	85.25	-34.63	50.62	74.00	-23.38	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2881.913	70.71	-31.02	39.69	74.00	-34.31	peak	Р
2	3585.745	71.42	-33.35	38.07	74.00	-35.93	peak	Р
3	4584.348	74.07	-33.51	40.56	74.00	-33.44	peak	Р
4	6665.540	77.64	-32.33	45.31	74.00	-28.69	peak	Р
5	9541.456	82.00	-33.27	48.73	74.00	-25.27	peak	Р
6 *	14075.013	84.26	-34.41	49.85	74.00	-24.15	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1588.434	64.24	-31.85	32.39	74.00	-41.61	peak	Р
2	3123.942	70.73	-31.50	39.23	74.00	-34.77	peak	Р
3	4977.976	74.53	-32.65	41.88	74.00	-32.12	peak	Р
4	6659.763	77.90	-32.31	45.59	74.00	-28.41	peak	Р
5	9602.322	81.21	-33.45	47.76	74.00	-26.24	peak	Р
6 *	15208.631	82.93	-34.60	48.33	74.00	-25.67	peak	Р





TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
3056.950	71.36	-31.17	40.19	74.00	-33.81	peak	Р
3781.607	72.99	-33.47	39.52	74.00	-34.48	peak	Р
4883.914	75.28	-32.86	42.42	74.00	-31.58	peak	Р
6642.461	78.11	-32.27	45.84	74.00	-28.16	peak	Р
9552.494	82.18	-33.31	48.87	74.00	-25.13	peak	Р
13407.884	85.64	-34.66	50.98	74.00	-23.02	peak	Р
	(MHz) 3056.950 3781.607 4883.914 6642.461 9552.494	(MHz) (dBuV) 3056.950 71.36 3781.607 72.99 4883.914 75.28 6642.461 78.11 9552.494 82.18	(MHz) (dBuV) (dB/m) 3056.950 71.36 -31.17 3781.607 72.99 -33.47 4883.914 75.28 -32.86 6642.461 78.11 -32.27 9552.494 82.18 -33.31	(MHz) (dBuV) (dBm) (dBuV/m) 3056.950 71.36 -31.17 40.19 3781.607 72.99 -33.47 39.52 4883.914 75.28 -32.86 42.42 6642.461 78.11 -32.27 45.84 9552.494 82.18 -33.31 48.87	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) 3056.950 71.36 -31.17 40.19 74.00 3781.607 72.99 -33.47 39.52 74.00 4883.914 75.28 -32.86 42.42 74.00 6642.461 78.11 -32.27 45.84 74.00 9552.494 82.18 -33.31 48.87 74.00	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB 3056.950 71.36 -31.17 40.19 74.00 -33.81 3781.607 72.99 -33.47 39.52 74.00 -34.48 4883.914 75.28 -32.86 42.42 74.00 -31.58 6642.461 78.11 -32.27 45.84 74.00 -28.16 9552.494 82.18 -33.31 48.87 74.00 -25.13	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector 3056.950 71.36 -31.17 40.19 74.00 -33.81 peak 3781.607 72.99 -33.47 39.52 74.00 -34.48 peak 4883.914 75.28 -32.86 42.42 74.00 -31.58 peak 6642.461 78.11 -32.27 45.84 74.00 -28.16 peak 9552.494 82.18 -33.31 48.87 74.00 -25.13 peak

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

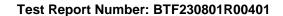
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2987.939	70.46	-30.91	39.55	74.00	-34.45	peak	Р
2	5218.116	75.70	-32.78	42.92	74.00	-31.08	peak	Р
3	7569.502	79.75	-33.50	46.25	74.00	-27.75	peak	Р
4	9178.971	80.71	-33.63	47.08	74.00	-26.92	peak	Р
5	12319.150	83.13	-33.98	49.15	74.00	-24.85	peak	P
6 *	15363.267	84.78	-35.05	49.73	74.00	-24.27	peak	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2987.939	72.46	-30.91	41.55	74.00	-32.45	peak	Р
2	4349.422	75.08	-33.67	41.41	74.00	-32.59	peak	Р
3	5844.138	76.39	-32.10	44.29	74.00	-29.71	peak	Р
4	7569.502	80.25	-33.50	46.75	74.00	-27.25	peak	Р
5	9549.733	81.14	-33.29	47.85	74.00	-26.15	peak	Р
6 *	14325.374	83.03	-34.76	48.27	74.00	-25.73	peak	P

TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3672.807	67.78	-33.40	34.38	74.00	-39.62	peak	Р
2	4773.658	69.61	-33.10	36.51	74.00	-37.49	peak	Р
3	6485.004	72.11	-31.89	40.22	74.00	-33.78	peak	Р
4	9549.733	78.64	-33.29	45.35	74.00	-28.65	peak	Р
5	10977.296	78.44	-34.63	43.81	74.00	-30.19	peak	Р
6 *	14379.303	82.64	-34.83	47.81	74.00	-26.19	peak	Р





TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3384.340	69.89	-32.74	37.15	74.00	-36.85	peak	Р
2	4912.229	75.17	-32.79	42.38	74.00	-31.62	peak	P
3	7134.019	76.52	-33.24	43.28	74.00	-30.72	peak	Р
4 *	9549.733	82.14	-33.29	48.85	74.00	-25.15	peak	Р
5	10794.805	81.47	-34.87	46.60	74.00	-27.40	peak	Р
6	13666.114	82.27	-34.50	47.77	74.00	-26.23	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW:2 / CH: M

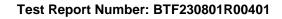
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
3020.064	67.94	-31.00	36.94	74.00	-37.06	peak	Р
3719.815	70.02	-33.43	36.59	74.00	-37.41	peak	Р
4976.538	71.96	-32.65	39.31	74.00	-34.69	peak	Р
6809.643	73.84	-32.70	41.14	74.00	-32.86	peak	Р
8353.570	75.93	-34.51	41.42	74.00	-32.58	peak	Р
13396.263	82.48	-34.66	47.82	74.00	-26.18	peak	Р
	(MHz) 3020.064 3719.815 4976.538 6809.643 8353.570	(MHz) (dBuV) 3020.064 67.94 3719.815 70.02 4976.538 71.96 6809.643 73.84 8353.570 75.93	(MHz) (dBuV) (dB/m) 3020.064 67.94 -31.00 3719.815 70.02 -33.43 4976.538 71.96 -32.65 6809.643 73.84 -32.70 8353.570 75.93 -34.51	(MHz) (dBuV) (dBm) (dBuV/m) 3020.064 67.94 -31.00 36.94 3719.815 70.02 -33.43 36.59 4976.538 71.96 -32.65 39.31 6809.643 73.84 -32.70 41.14 8353.570 75.93 -34.51 41.42	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) 3020.064 67.94 -31.00 36.94 74.00 3719.815 70.02 -33.43 36.59 74.00 4976.538 71.96 -32.65 39.31 74.00 6809.643 73.84 -32.70 41.14 74.00 8353.570 75.93 -34.51 41.42 74.00	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB uV/m) (dB) 3020.064 67.94 -31.00 36.94 74.00 -37.06 3719.815 70.02 -33.43 36.59 74.00 -37.41 4976.538 71.96 -32.65 39.31 74.00 -34.69 6809.643 73.84 -32.70 41.14 74.00 -32.86 8353.570 75.93 -34.51 41.42 74.00 -32.58	(MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector 3020.064 67.94 -31.00 36.94 74.00 -37.06 peak 3719.815 70.02 -33.43 36.59 74.00 -37.41 peak 4976.538 71.96 -32.65 39.31 74.00 -34.69 peak 6809.643 73.84 -32.70 41.14 74.00 -32.86 peak 8353.570 75.93 -34.51 41.42 74.00 -32.58 peak

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 2 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3314.637	69.03	-32.41	36.62	74.00	-37.38	peak	Р
2	4923.600	72.59	-32.77	39.82	74.00	-34.18	peak	Р
3	8274.271	77.47	-34.48	42.99	74.00	-31.01	peak	Р
4	9981.525	78.85	-34.54	44.31	74.00	-29.69	peak	Р
5	12494.865	80.41	-33.86	46.55	74.00	-27.45	peak	Р
6 *	16348.275	79.32	-32.20	47.12	74.00	-26.88	peak	Р

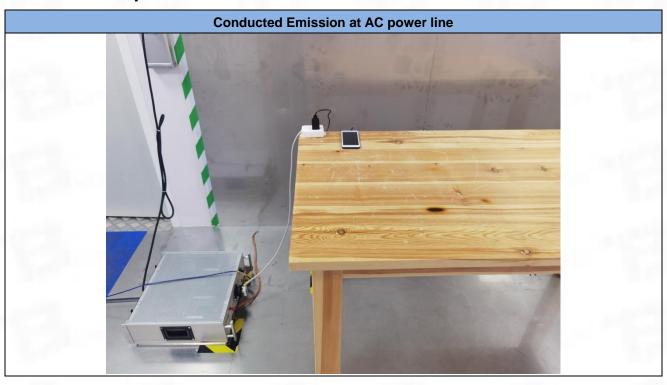
TM1 / Polarization: Vertical / Band: 2.4G / BW: 2 / CH: H

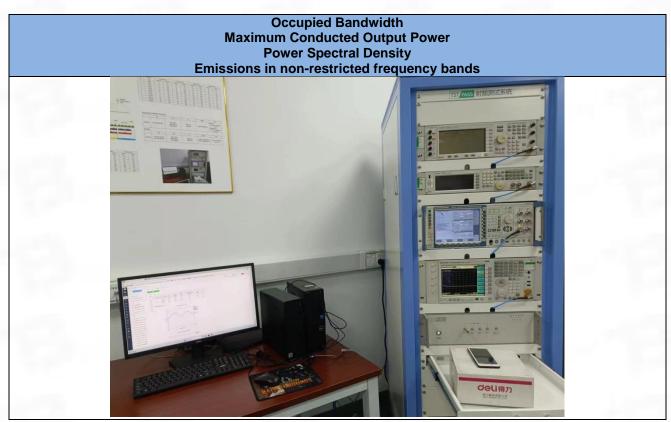
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3335.781	69.30	-32.51	36.79	74.00	-37.21	peak	Р
2	3889.131	68.39	-33.53	34.86	74.00	-39.14	peak	Р
3	5252.921	71.57	-32.80	38.77	74.00	-35.23	peak	Р
4	7254.623	75.60	-33.28	42.32	74.00	-31.68	peak	Р
5	9380.123	76.96	-33.33	43.63	74.00	-30.37	peak	Р
6 *	14271.648	80.47	-34.68	45.79	74.00	-28.21	peak	Р

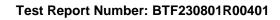




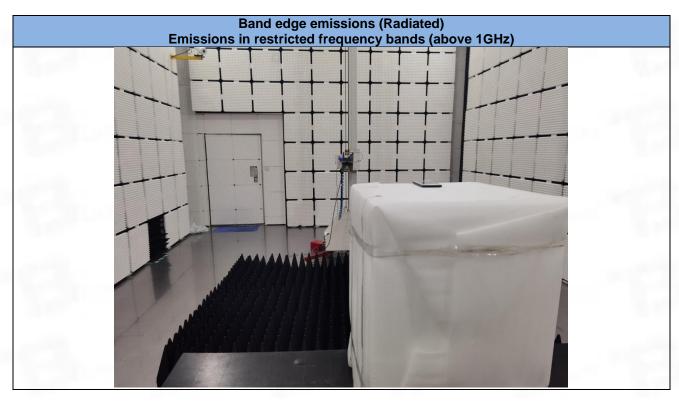
Test Setup Photos

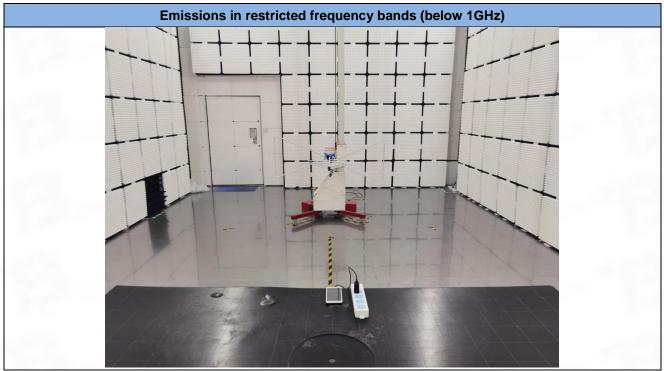


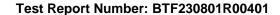






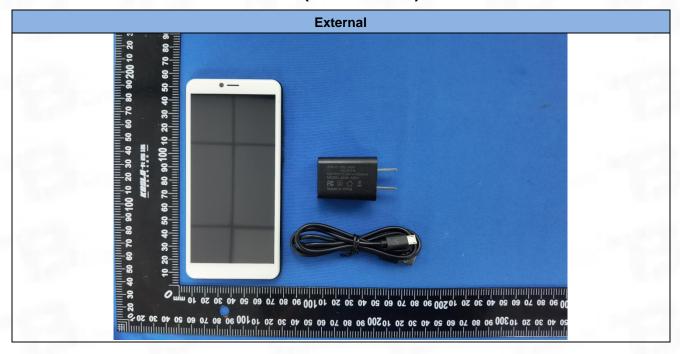




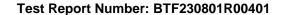




8 EUT Constructional Details (EUT Photos)

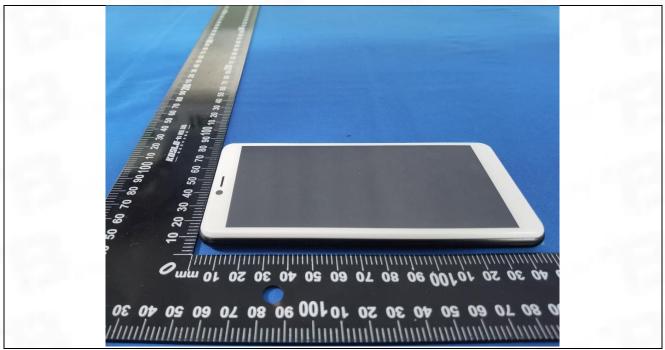


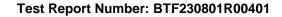




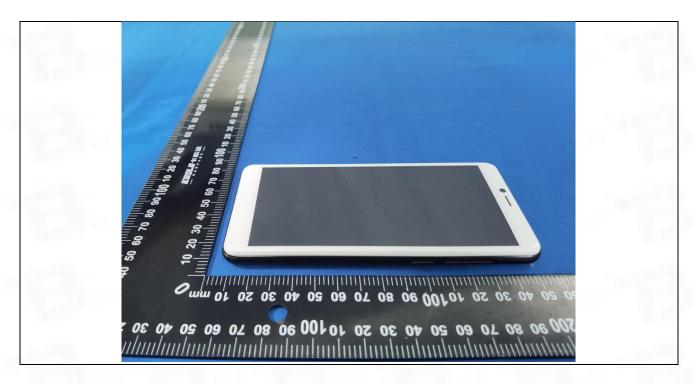


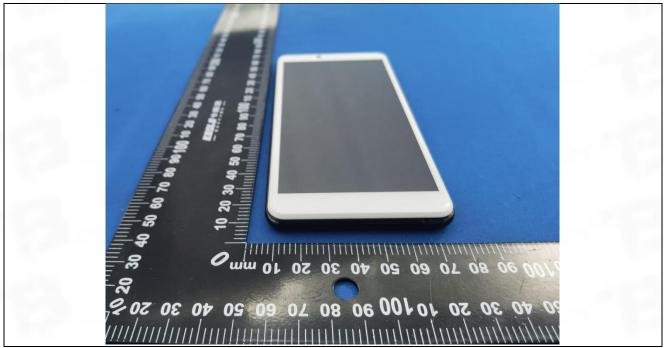


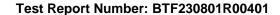




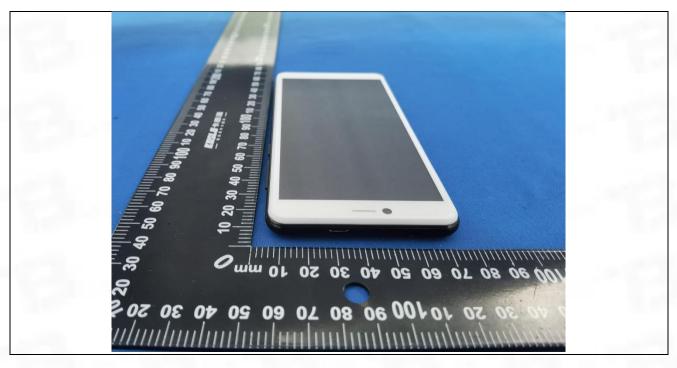




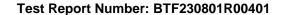




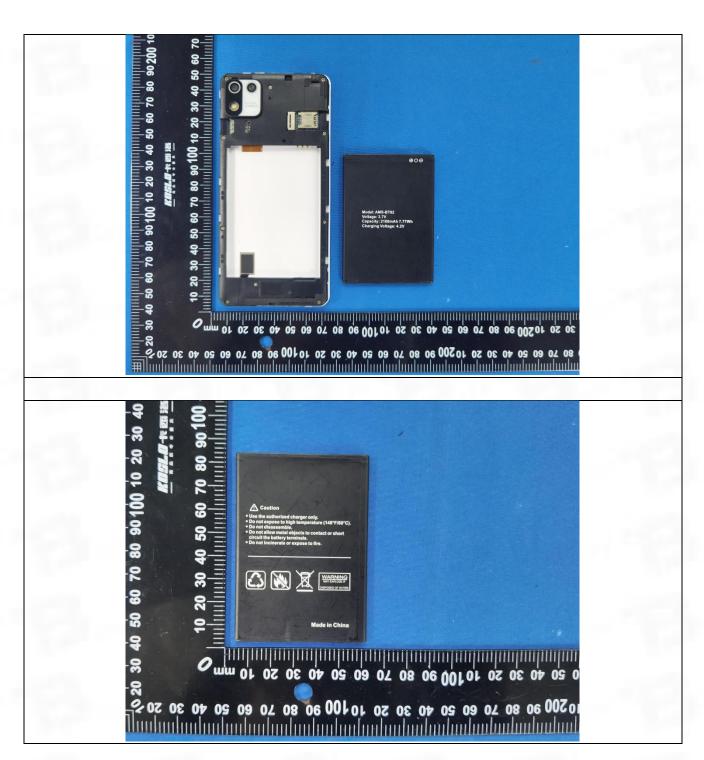


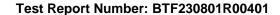




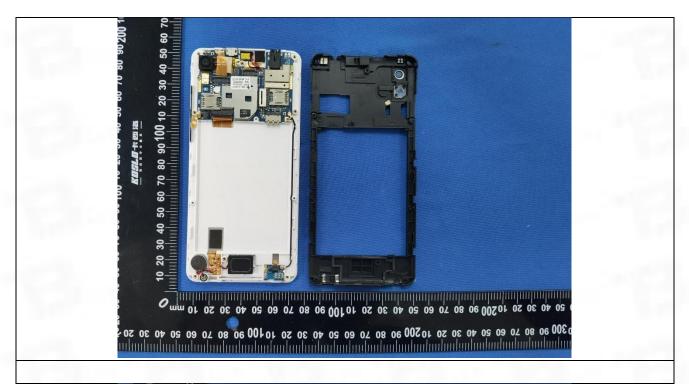




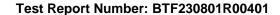




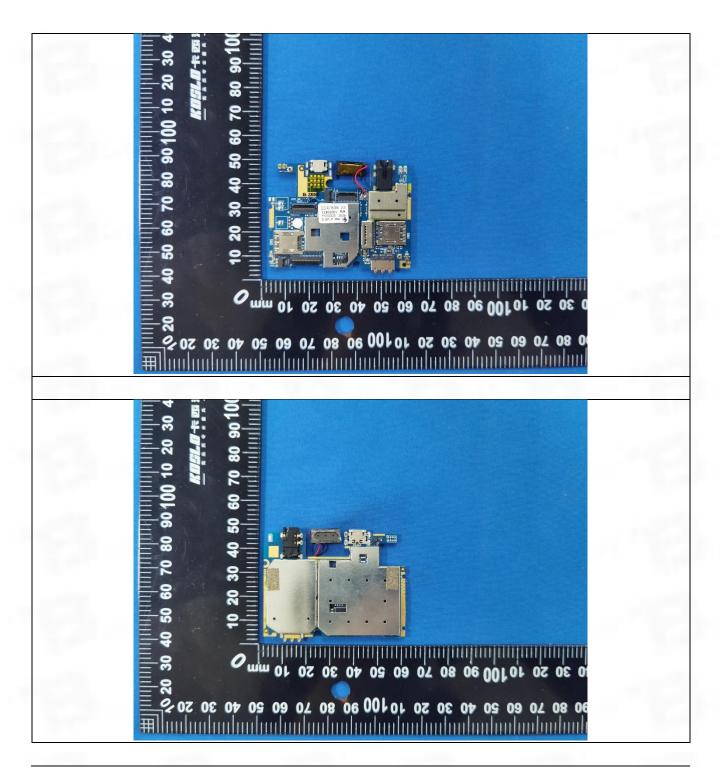


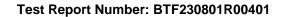




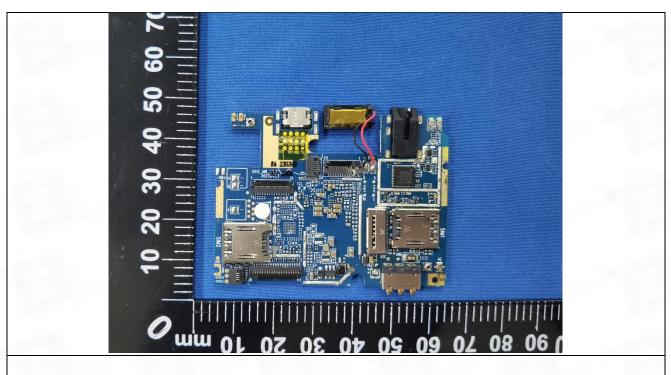


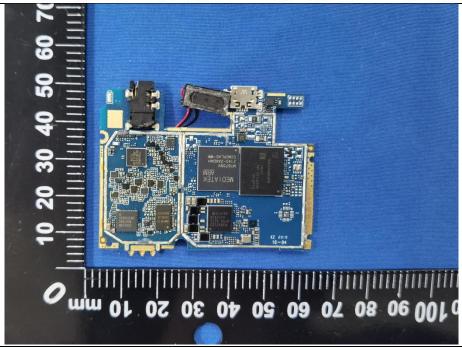


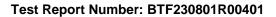






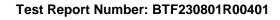








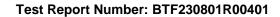
Appendix





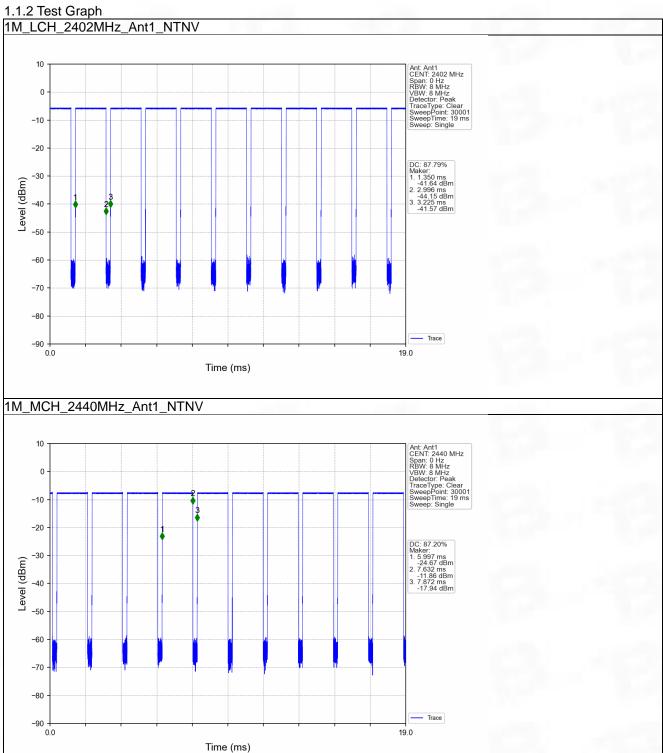
- 1. Duty Cycle 1.1 Ant1
- 1.1.1 Test Result

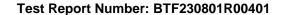
Ant1							
Mada	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2402	1.646	1.875	87.79	0.57	0.00
1M SIS	SISO	2440	1.635	1.875	87.20	0.59	0.03
		2480	1.645	1.875	87.73	0.57	0.03
		2402	0.866	1.250	69.28	1.59	0.02
2M	SISO	2440	0.866	1.250	69.28	1.59	0.03
		2480	0.866	1.250	69.28	1.59	0.03



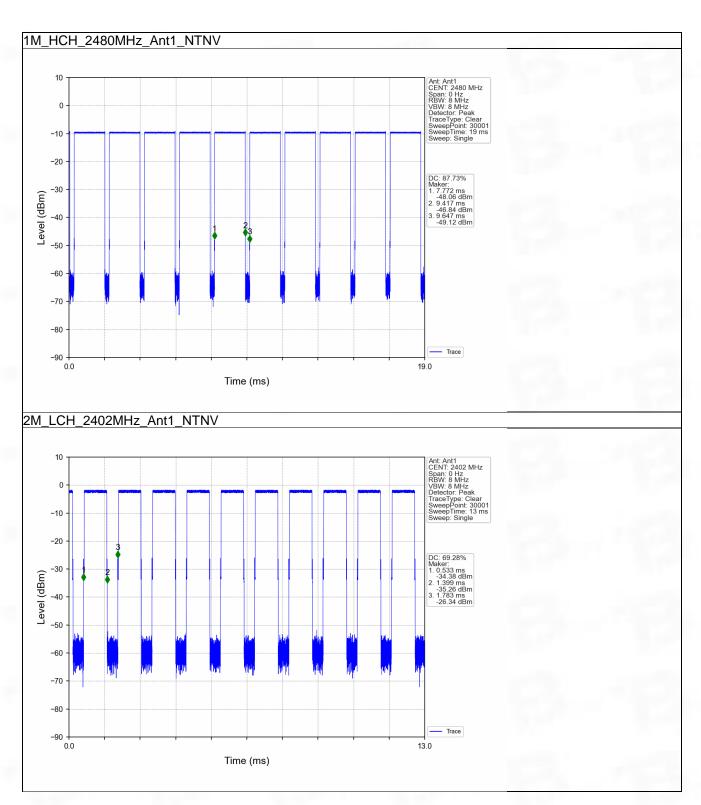


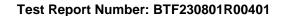




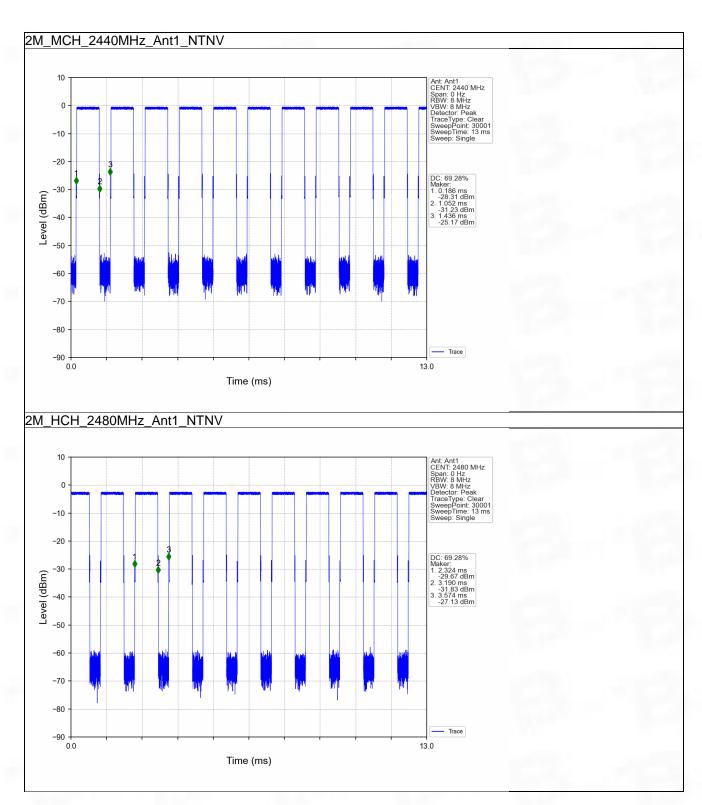


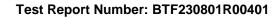










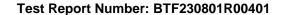




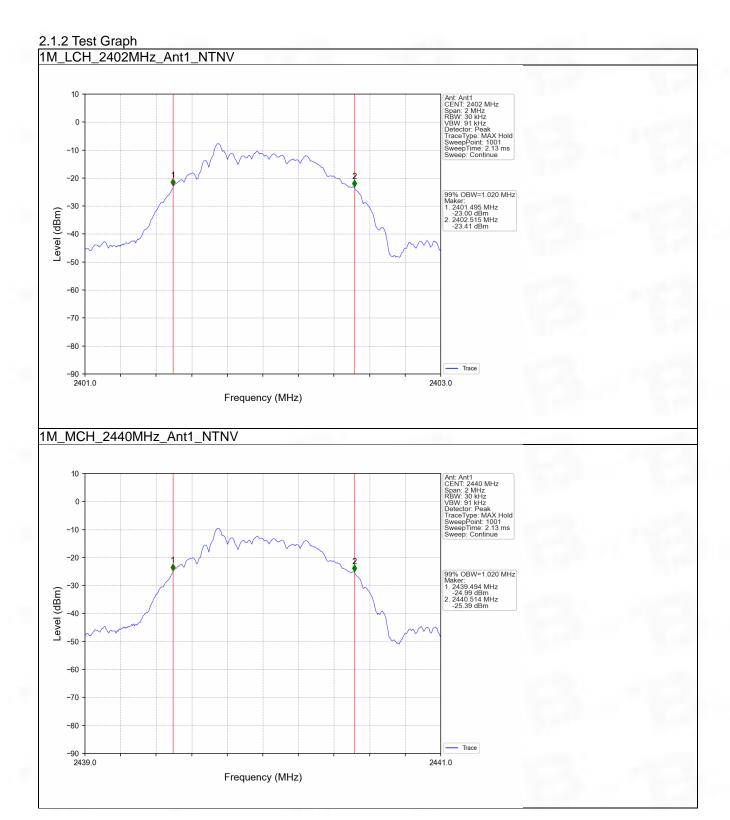
2. Bandwidth 2.1 OBW

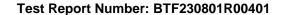
2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
vioue	Туре	(MHz)	ANI	Result	verdict
		2402	1	1.020	Pass
1M	SISO	2440	1	1.020	Pass
		2480	1	1.021	Pass
		2402	1	2.025	Pass
2M	SISO	2440	1	2.024	Pass
		2480	1	2.025	Pass

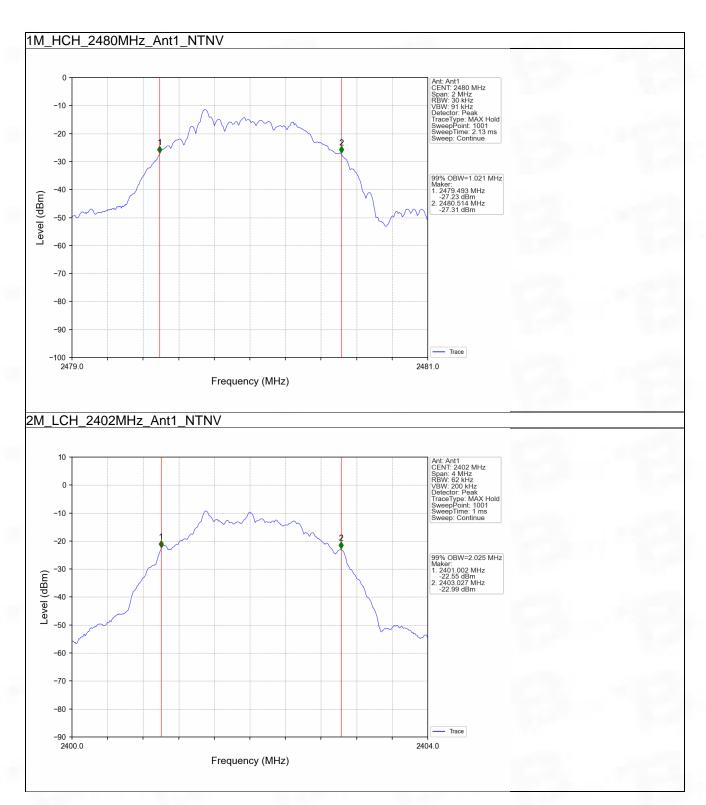


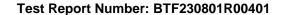




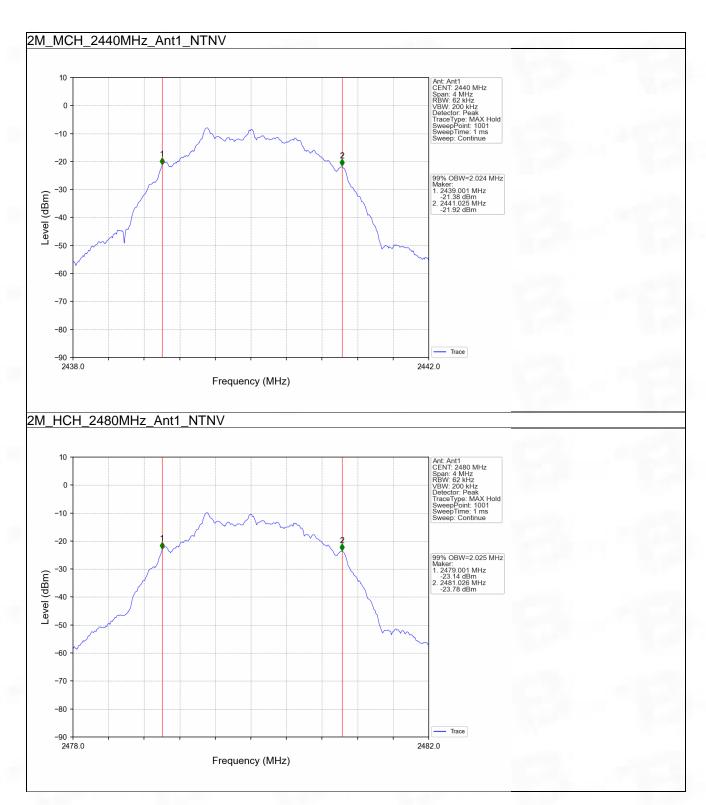


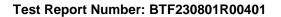








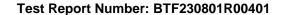






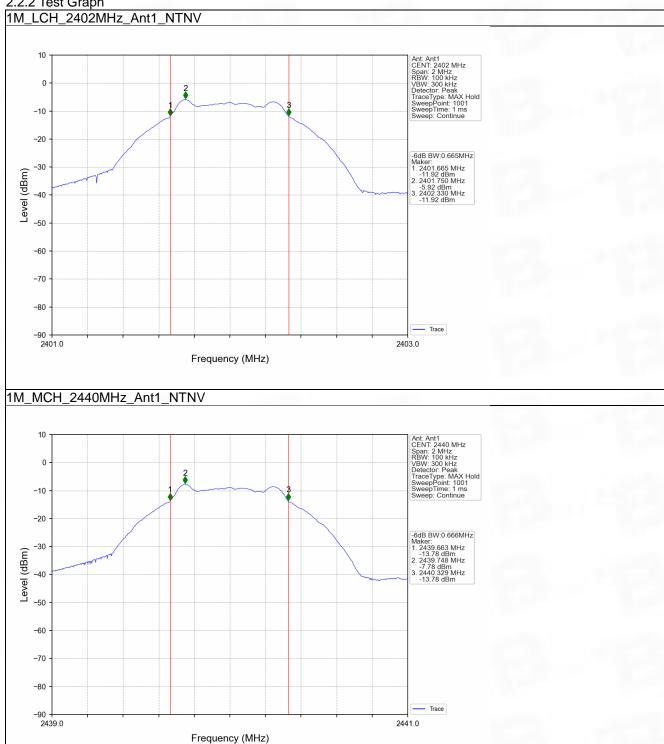
2.2 6dB BW 2.2.1 Test Result

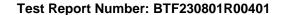
Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Vardiat
	Туре	(MHz)	ANI	Result	Limit	Verdict
1M		2402	1	0.665	>=0.5	Pass
	SISO	2440	1	0.666	>=0.5	Pass
		2480	1	0.665	>=0.5	Pass
2M	SISO	2402	1	1.203	>=0.5	Pass
		2440	1	1.199	>=0.5	Pass
		2480	1	1.201	>=0.5	Pass



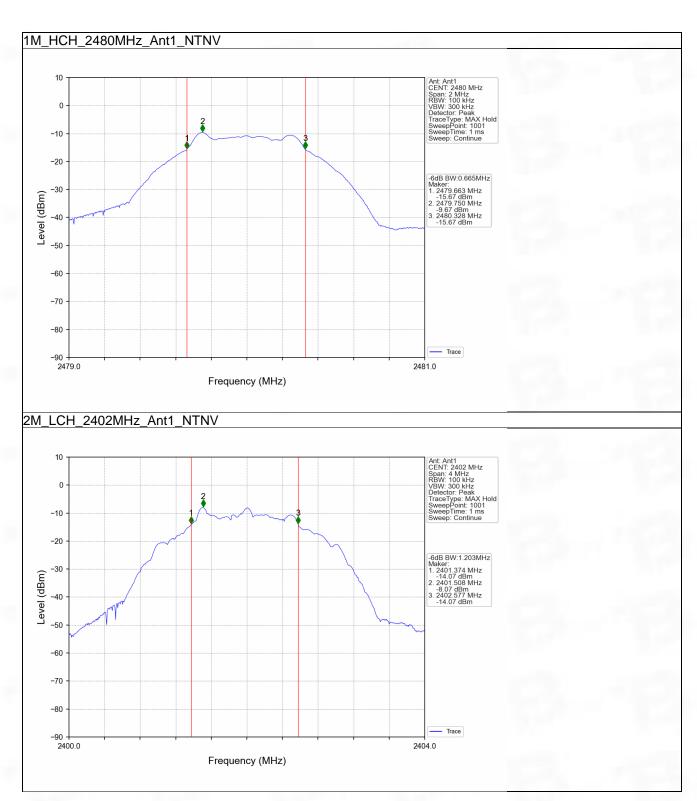


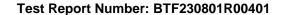




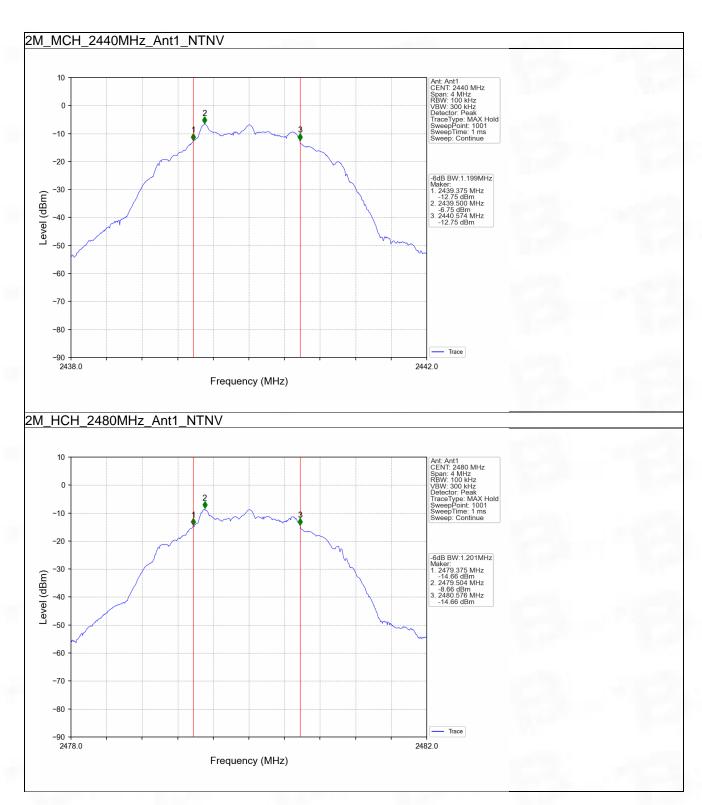


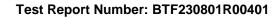










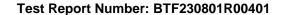




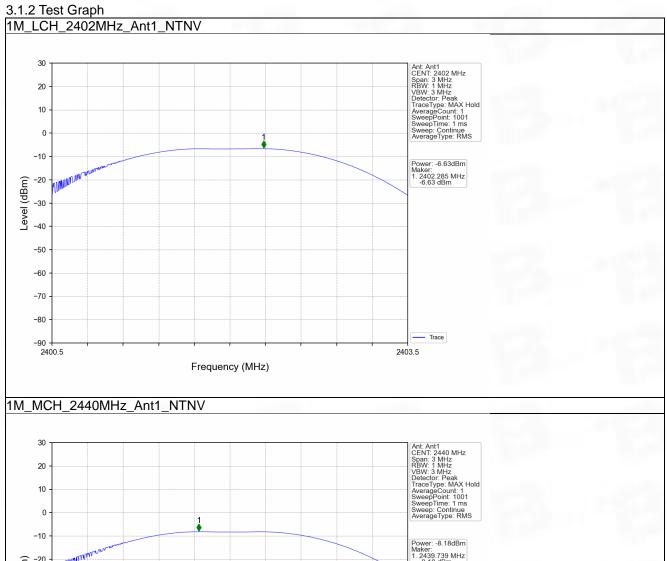
3. Maximum Conducted Output Power 3.1 Power

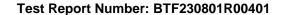
3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conducted Output Power (dBm)		\
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2402	-6.63	<=30	Pass
1M	SISO	2440	-8.18	<=30	Pass
		2480	-9.81	<=30	Pass
		2402	-7.09	<=30	Pass
2M	SISO	2440	-5.83	<=30	Pass
		2480	-7.71	<=30	Pass

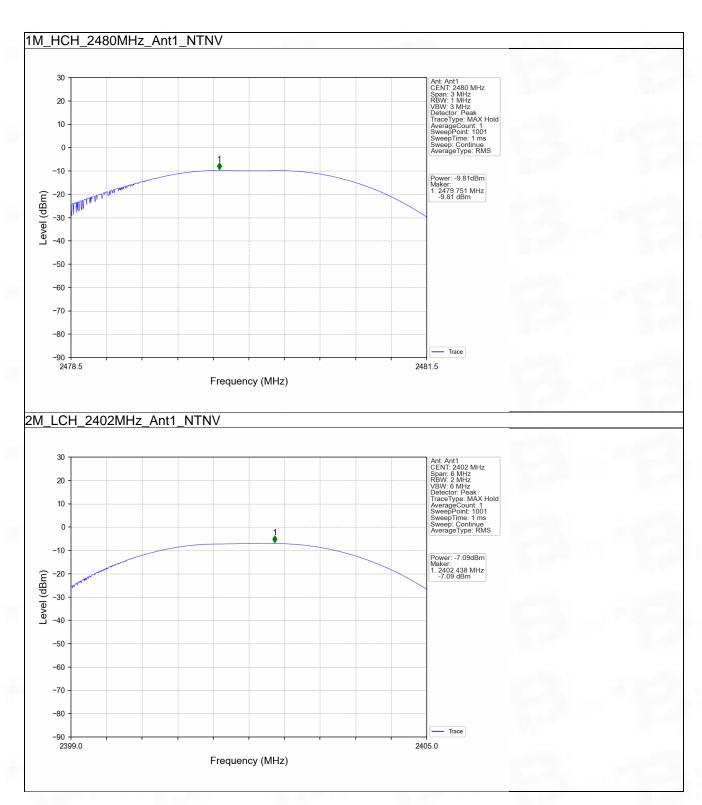


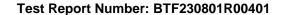




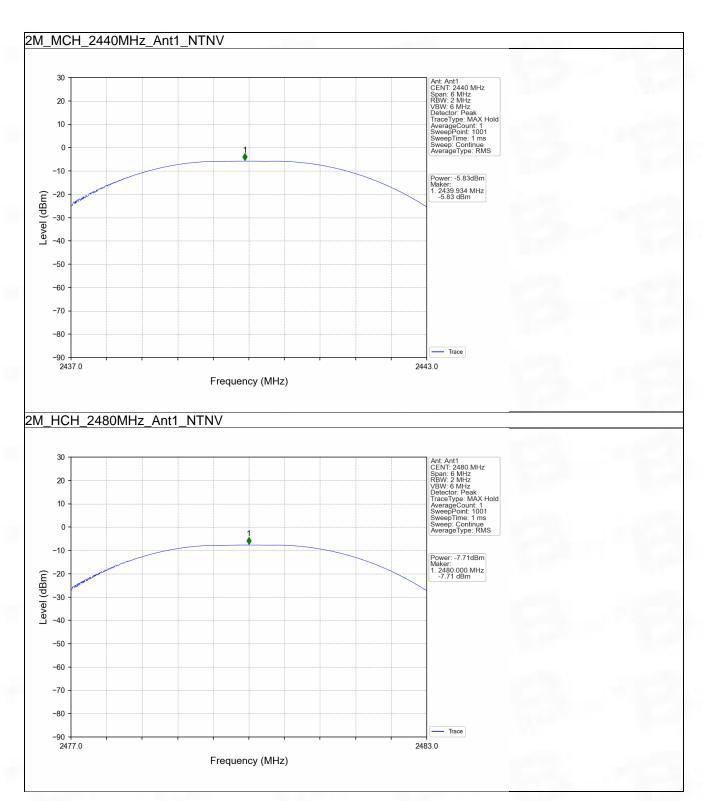


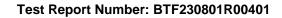










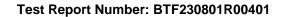




4. Maximum Power Spectral Density 4.1 PSD

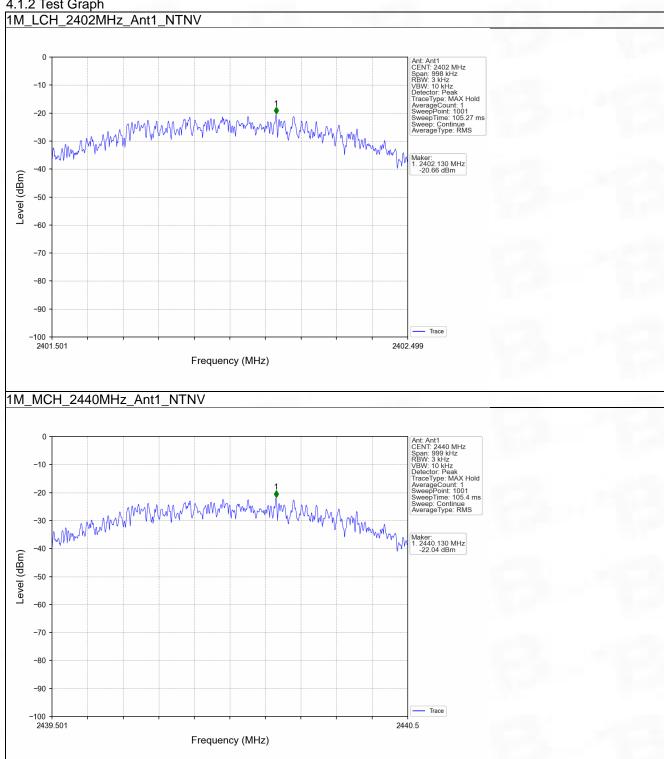
4.1.1 Test Result

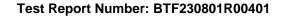
Mada	TX	Frequency Maximum PSD (dBm/3kHz)		Vardiat	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
1M		2402	-20.66	<=8	Pass
	SISO	2440	-22.04	<=8	Pass
		2480	-23.68	<=8	Pass
2M	SISO	2402	-23.65	<=8	Pass
		2440	-22.43	<=8	Pass
		2480	-24.42	<=8	Pass



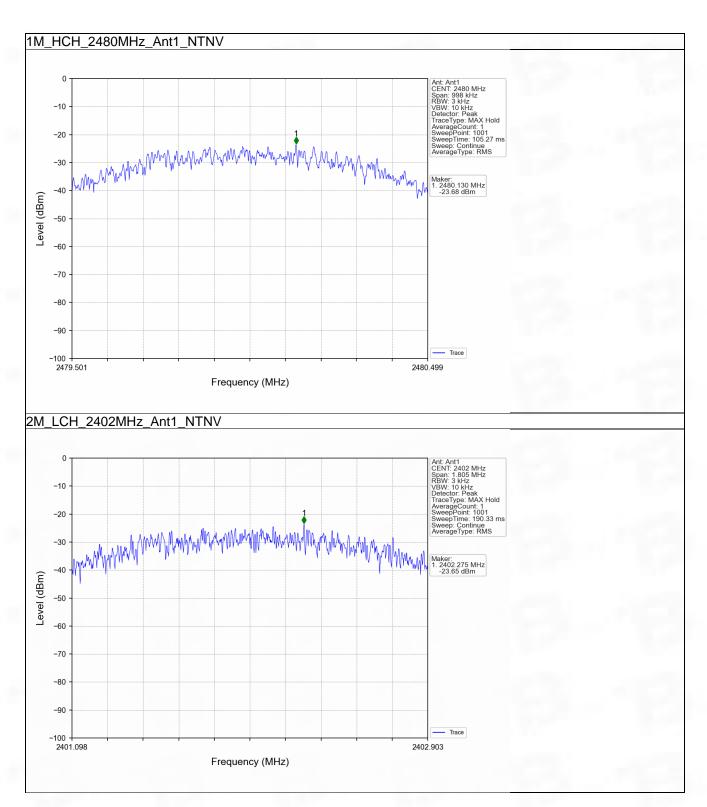


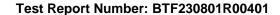




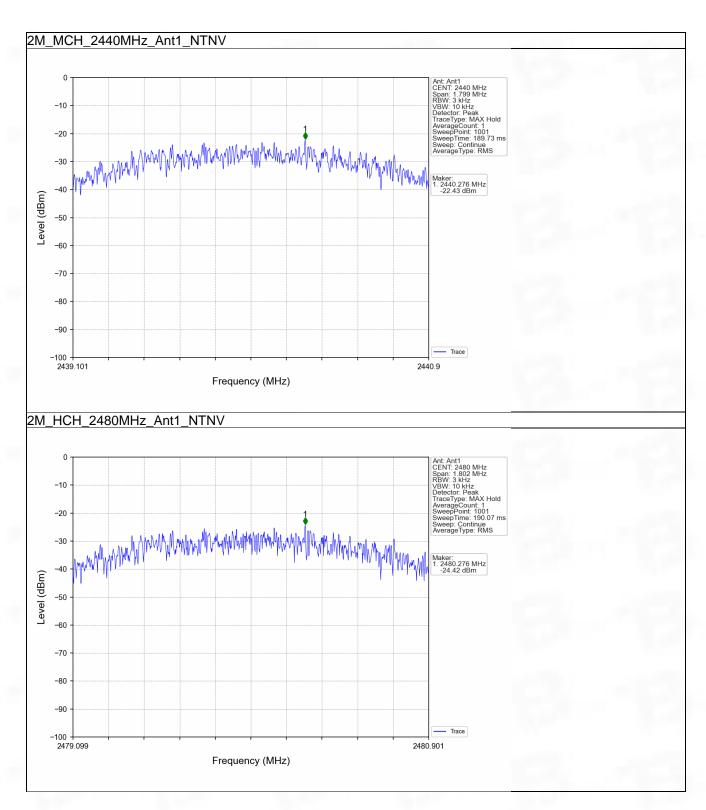


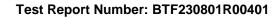














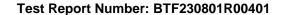
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

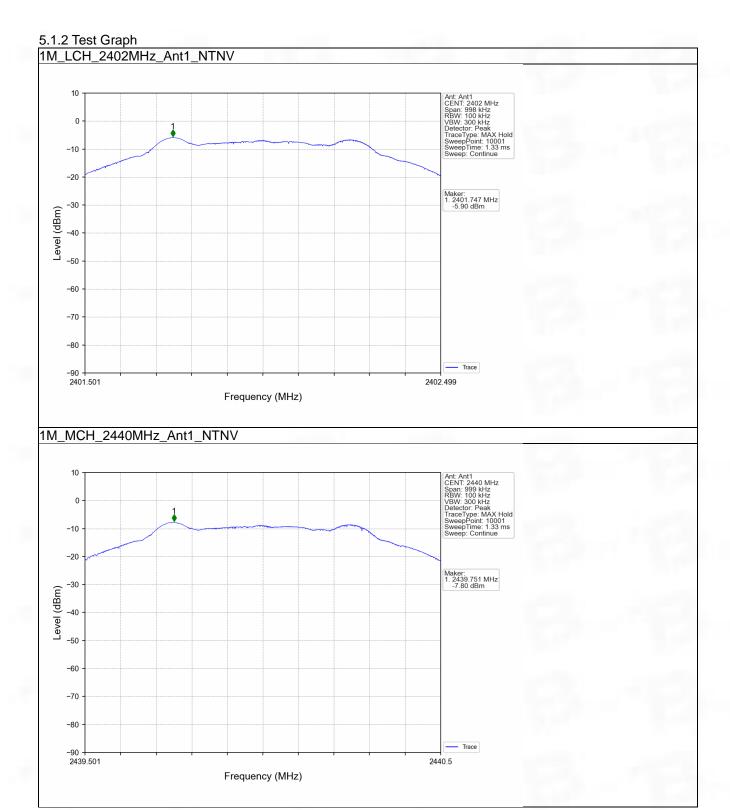
5.1.1 Test Result

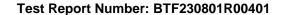
0.1.1 10001	Codit			
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	-5.90
1M	SISO	2440	1	-7.80
		2440 <u>1</u> 2480 <u>1</u>	-9.68	
		2402	1	-3.11
2M	SISO	2440	1	-1.75
		2480	1	-3.80

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

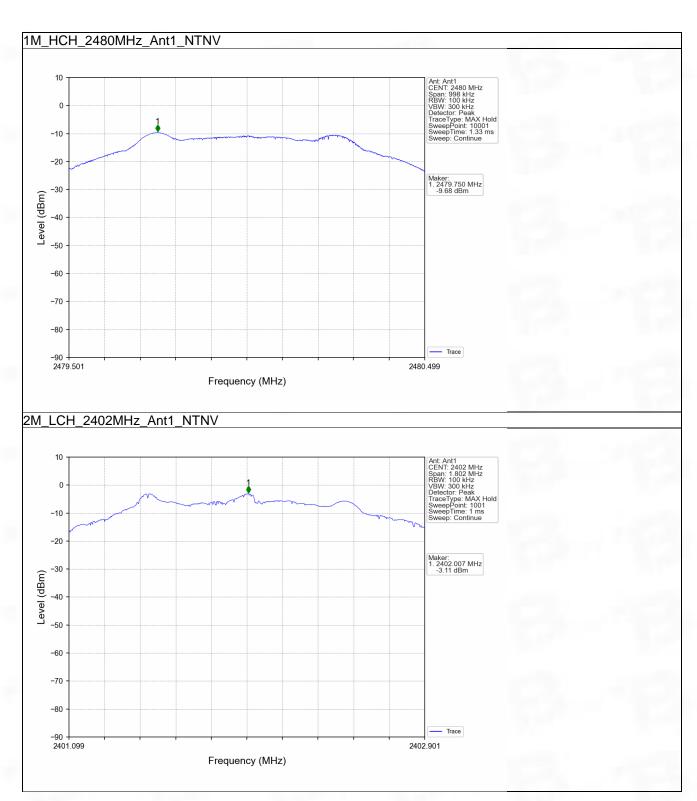


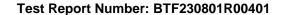




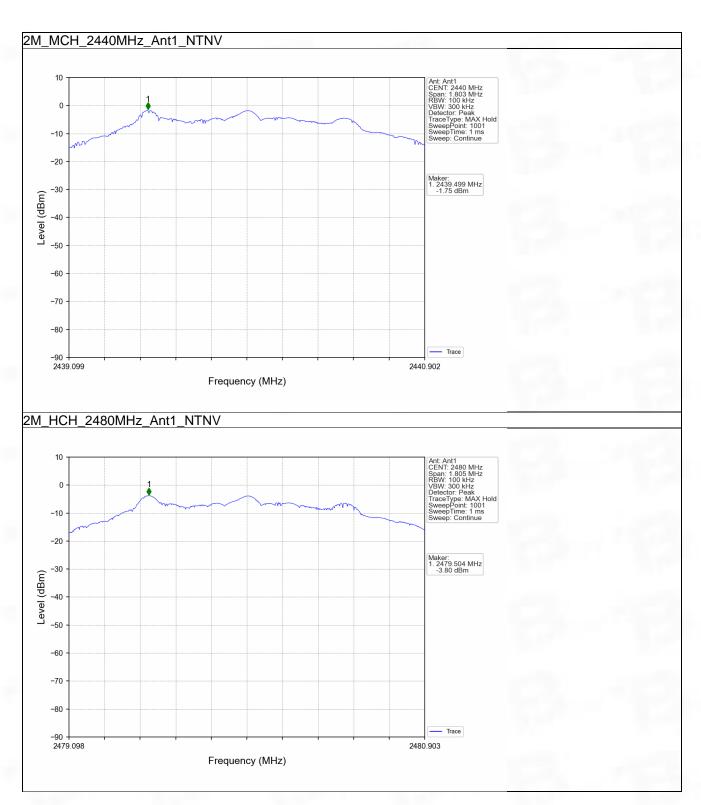


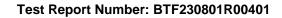












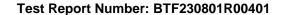


5.2 CSE

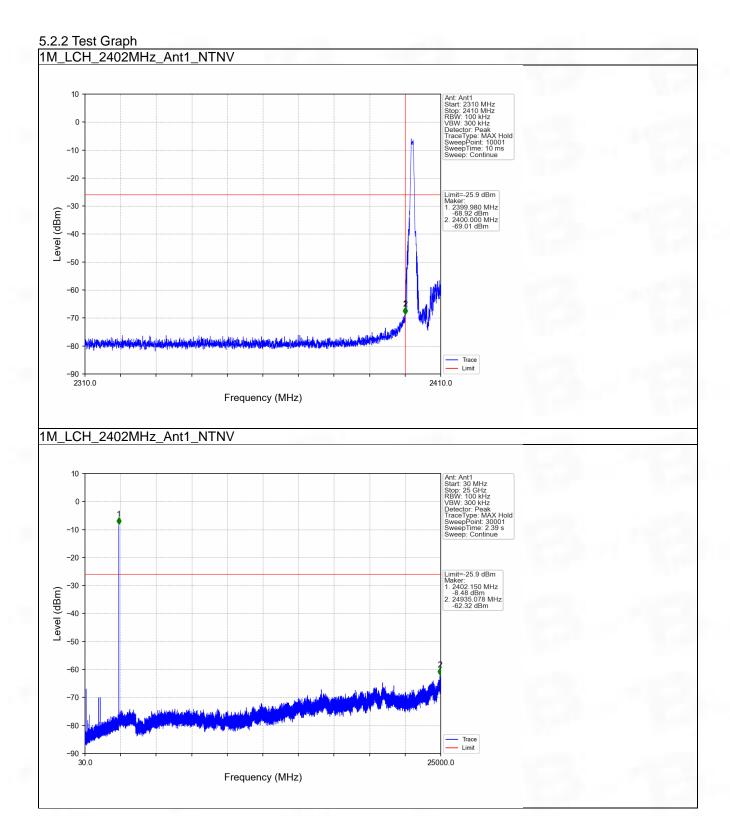
5.2.1 Test Result

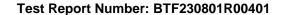
N 4l -	TX	Frequency		Level of Reference	Level of Reference Limit	
Mode	Туре	(MHz)	ANT	(dBm)	(dBm)	Verdict
		2402	1	-5.90	-25.90	Pass
1M	SISO	2440	1	-5.90	-25.90	Pass
		2480	1	-5.90	-25.90	Pass
		2402	1	-1.75	-21.75	Pass
2M	SISO	2440	1	-1.75	-21.75	Pass
		2480	1	-1.75	-21.75	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

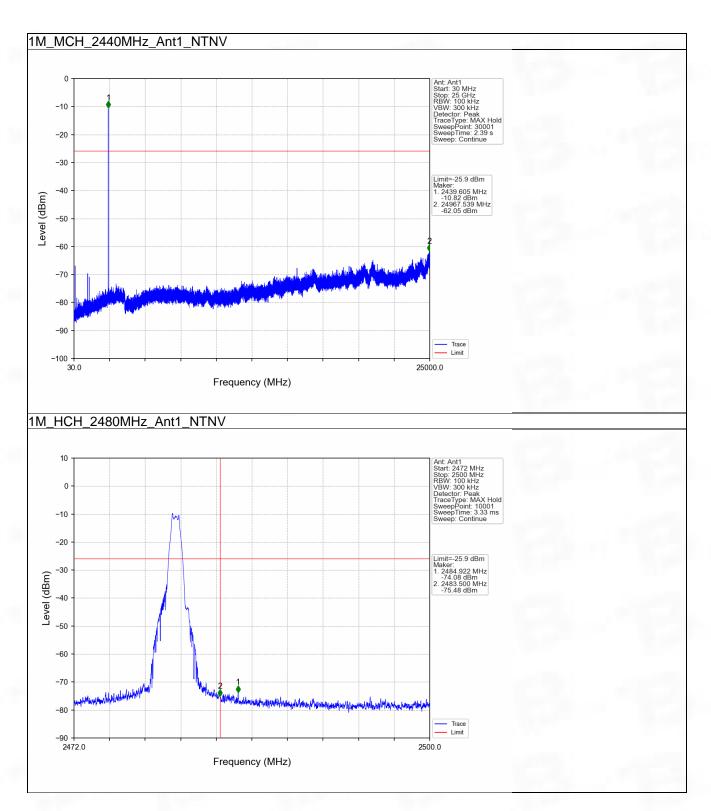


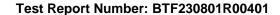




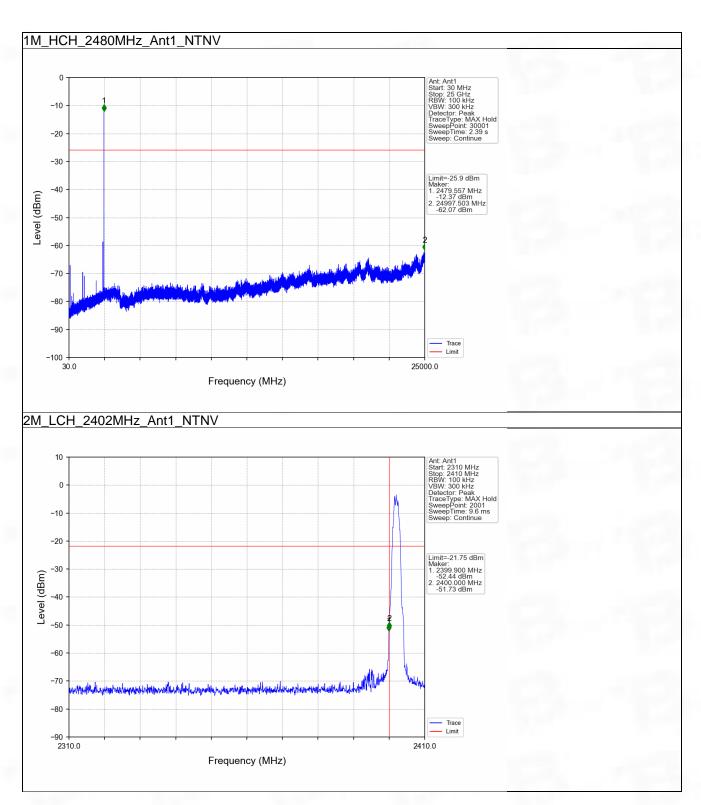


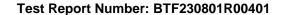




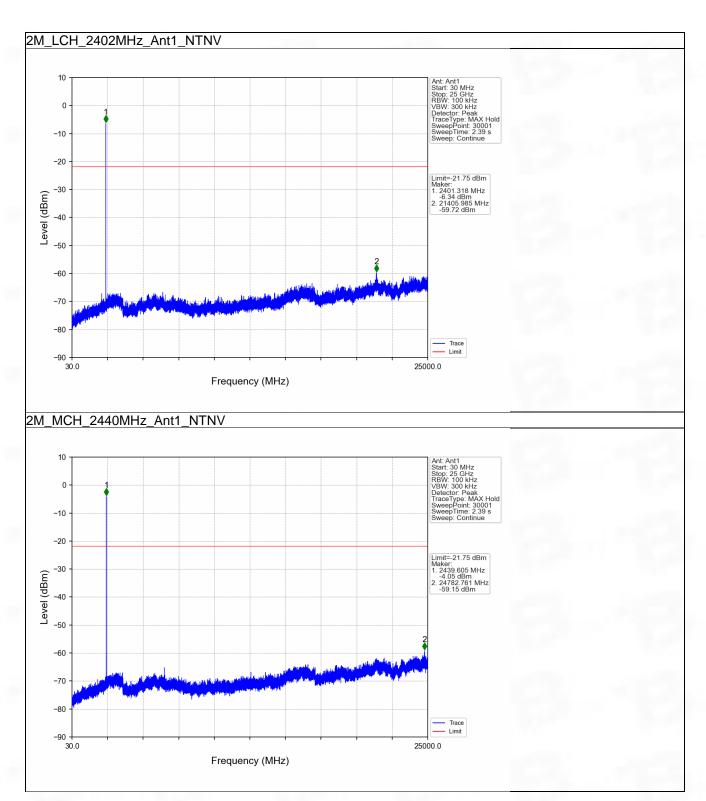


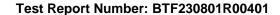




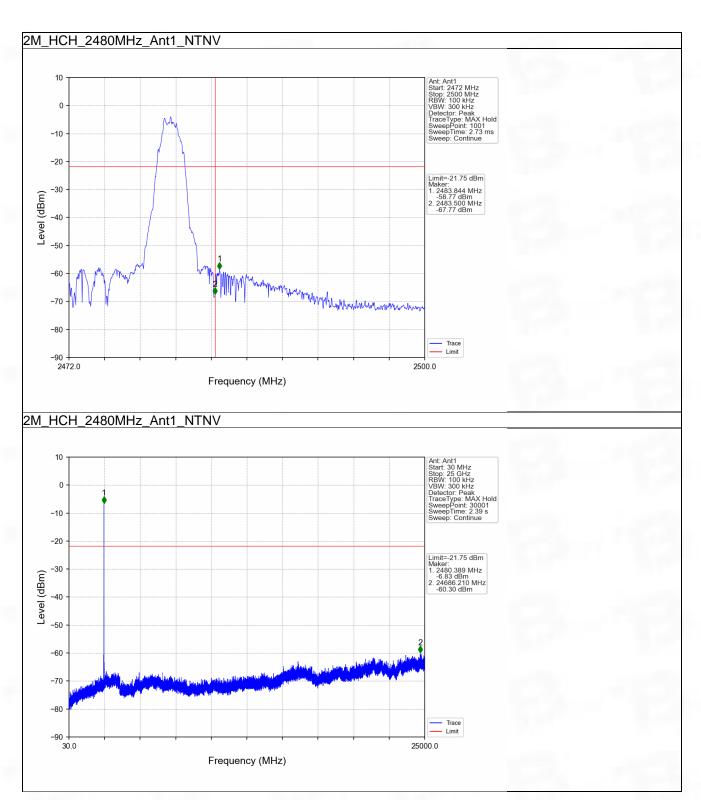


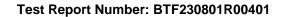














6. Form731 6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0003	-5.83



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-- END OF REPORT --