

RF Test Report

Foi

Applicant Name: DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD

WANCHAI HK CHINA

EUT Name: Mobile Phone Brand Name: Blackview

Model Number: BV4800 (2+32)

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: BTF231007R01804 Test Standards: 47 CFR Part 15E

Test Conclusion: Pass

FCC ID: 2A7DX-BV4800-32

Test Date: 2023-10-09 to 2023-11-8

Date of Issue: 2023-11-13

Prepared By:

Chris Liu / Project En

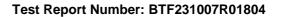
Date: 2023-11-

Approved By:

Ryan.CJ / EMC Manager

Date: 2023-11-13

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-11-13	Original	
Note: Once the I	revision has been made, then pre	vious versions reports are invalid.	

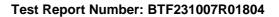
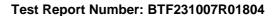




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1 Introduction

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
Address.	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.



2 Product Information

2.1 Application Information

Company Name:	DOKE COMMUNICATION (HK) LIMITED
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

2.2 Manufacturer Information

	Company Name:	Shenzhen DOKE Electronic Co., Ltd
	Address:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

2.3 Factory Information

Company Name:	Shenzhen DOKE Electronic Co., Ltd
Address:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Mobile Phone
Test Model Number:	BV4800 (2+32)
Hardware Version:	HCT-M662MB-B2
Software Version:	BV4800_NEU_M662_V1.0

2.5 Technical Information

Power Supply:	DC 3.85V form battery
Operation Frequency	U-NII Band 1: 5.18~5.24 GHz
Range	U-NII Band 3: 5.745~5.825 GHz
Frequency Block	U-NII Band 1: 5.15~5.25 GHz
Frequency Block	U-NII Band 3: 5.725~5.85 GHz
	802.11a: 20 MHz
Channel Bandwidth	802.11n: 20 MHz, 40 MHz
	802.11ac: 20 MHz, 40 MHz, 80 MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-0.45 dBi
NI. I.	

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.



3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

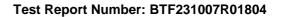
3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB

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 15E	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15E	47 CFR Part 15.207(a)	Pass
Maximum conducted output power	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Power spectral density	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)	Pass
Emission bandwidth and occupied bandwidth	47 CFR Part 15E	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Channel Availability Check Time	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(ii)	Pass
U-NII Detection Bandwidth	47 CFR Part 15E	47 CFR Part 15.407(h)(2)	Pass
Statistical Performance Check	47 CFR Part 15E	KDB 935210 D02, Clause 5.1 Table 2	Pass
Channel Move Time, Channel Closing Transmission Time	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(iii)	Pass
Non-Occupancy Period Test	47 CFR Part 15E	47 CFR Part 15.407(h)(2)(iv)	Pass
DFS Detection Thresholds	47 CFR Part 15E	KDB 905462 D02, Clause 5.2 Table 3	Pass
Band edge emissions (Radiated)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass





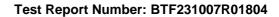
Test Configuration

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		

Duty Cycle							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	1	V1.00	1	1	1		
RF Control Unit	Techy	TR1029-1	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		

Maximum conducted output power							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	1	/	/		
RF Control Unit	Techy	TR1029-1	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		

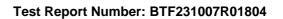




Power spectral density							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	1	V1.00	1	/	/		
RF Control Unit	Techy	TR1029-1	1	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	1	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	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		

Emission bandwidth and occupied bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	1	V1.00	1	1	1	
RF Control Unit	Techy	TR1029-1	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	

Channel Availability Check Time							
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	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		

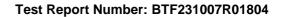




U-NII Detection Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	1	V1.00	1	1	/	
RF Control Unit	Techy	TR1029-1	1	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	1	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	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	

Statistical Performance Check							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	1	V1.00	1	1	1		
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		

Channel Move Time, Channel Closing Transmission Time							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	1	V1.00	1	1	1		
RF Control Unit	Techy	TR1029-1	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		



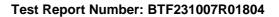


WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Non-Occupancy Period Test							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	1	V1.00	1	1	/		
RF Control Unit	Techy	TR1029-1	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		

DFS Detection Thresholds								
Equipment	Manufacturer	Manufacturer Model 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	1	2022-11-24	2023-11-23			
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	ZZ-K02A 20210928007		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			

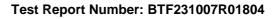
Band edge emissions (Radiated)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23				
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23				
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	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	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	1	1	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	/	1
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Undesirable emission	limits (below 1GH	z)			
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	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	1	1	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+	- /	1	/
POSITIONAL SKET		PCI-GPIB	1	1	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27





Undesirable emission	limits (above 1GH	lz)				
Equipment	Manufacturer	turer Model No Inventory No			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	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	1	1	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	1	1	
POSITIONAL SKET		PCI-GPIB	1	1	1	
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27	

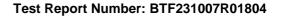


4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	802.11a mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ТМ3	802.11ac mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. Only the data of worst case is recorded in the report.
TM4	Normal Operating	Keep the EUT works in normal operating mode and connect to companion device





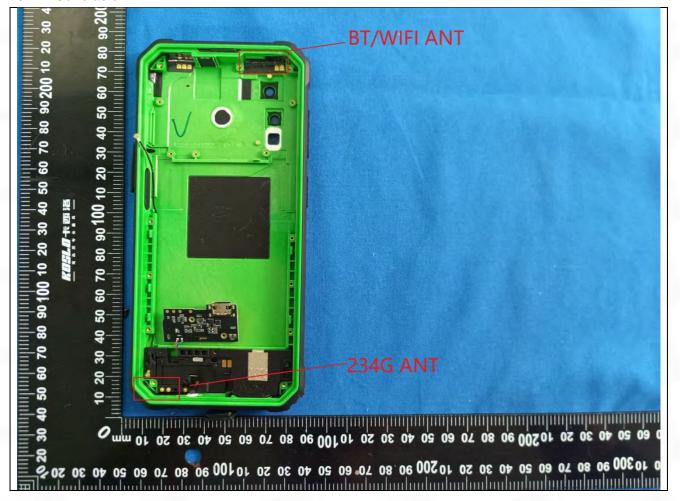
5 Evaluation Results (Evaluation)

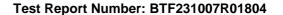
5.1 Antenna requirement

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:







6 Radio Spectrum Matter Test Results (RF)

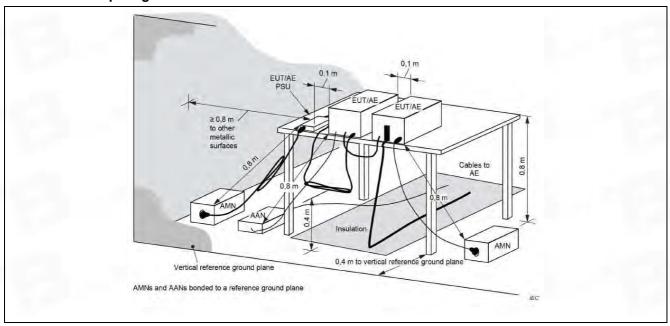
6.1 Conducted Emission at AC power line

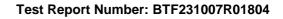
Test Requirement:	47 CFR Part 15.207(a)								
Test Method:		Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices							
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB Quasi-peak	μV) Average						
	0.15-0.5 0.5-5	66 to 56* 56	56 to 46* 46						
	5-30 *Decreases with the logarithm of t	60 he frequency.	50						

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

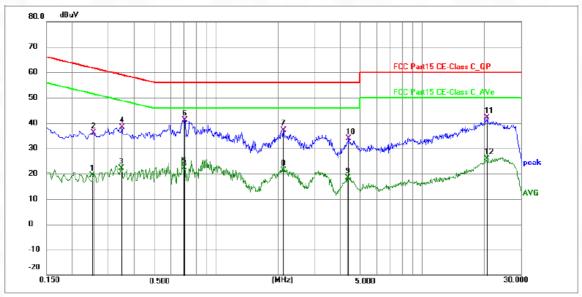






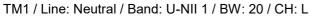
6.1.3 Test Data:

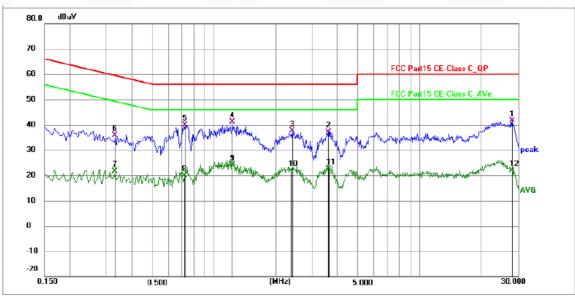
TM1 / Line: Line / Band: U-NII 1 / BW: 20 / CH: L



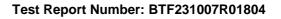
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2519	8.77	10.59	19.36	51.69	-32.33	AVG	Р	
2	0.2534	25.53	10.59	36.12	61.64	-25.52	QP	Р	
3	0.3462	11.44	10.60	22.04	49.05	-27.01	AVG	Р	
4	0.3480	27.80	10.60	38.40	59.01	-20.61	QP	Р	
5	0.6990	11.75	10.73	22.48	46.00	-23.52	AVG	Р	
6 *	0.7035	30.47	10.73	41.20	56.00	-14.80	QP	Р	
7	2.1120	26.45	10.69	37.14	56.00	-18.86	QP	Р	
8	2.1120	10.68	10.69	21.37	46.00	-24.63	AVG	Р	
9	4.3395	7.50	10.76	18.26	46.00	-27.74	AVG	Р	
10	4.3845	23.07	10.76	33.83	56.00	-22.17	QP	Р	
11	20.5575	31.06	11.03	42.09	60.00	-17.91	QP	Р	
12	20.5575	14.92	11.03	25.95	50.00	-24.05	AVG	Р	







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	28.0680	30.66	11.07	41.73	60.00	-18.27	QP	Р	
2	3.5970	26.44	10.72	37.16	56.00	-18.84	QP	Р	
3	2.4045	27.01	10.70	37.71	56.00	-18.29	QP	Р	
4 *	1.2300	30.25	10.76	41.01	56.00	-14.99	QP	Р	
5	0.7215	29.13	10.73	39.86	56.00	-16.14	QP	Р	
6	0.3300	25.20	10.60	35.80	59.45	-23.65	QP	Р	
7	0.3300	11.13	10.60	21.73	49.45	-27.72	AVG	Р	
8	0.7170	9.12	10.73	19.85	46.00	-26.15	AVG	Р	
9	1.2255	13.44	10.76	24.20	46.00	-21.80	AVG	Р	
10	2.3909	11.10	10.70	21.80	46.00	-24.20	AVG	Р	
11	3.6194	11.85	10.72	22.57	46.00	-23.43	AVG	Р	
12	28.0680	10.87	11.07	21.94	50.00	-28.06	AVG	Р	





6.2 Duty Cycle

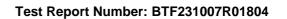
Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Test Limit:	No limits, only for report use.
Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

6.2.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.5 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

6.2.2 Test Data:

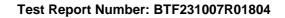
Please Refer to Appendix for Details.





6.3 Maximum conducted output power

6.3 Maximum conducted output power						
	47 CFR Part 15.407(a)(1)(i)					
	47 CFR Part 15.407(a)(1)(ii)					
To the December of	47 CFR Part 15.407(a)(1)(iii)					
Test Requirement:	47 CFR Part 15.407(a)(1)(iv)					
	47 CFR Part 15.407(a)(2)					
	47 CFR Part 15.407(a)(3)(i)					
Test Method:	ANSI C63.10-2013, section 12.3					
	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum					
	conducted output power over the frequency band of operation shall not exceed 1					
	W provided the maximum antenna gain does not exceed 6 dBi.					
	If transmitting antennas of directional gain greater than 6 dBi are used, the					
	maximum conducted output power shall be reduced by the amount in dB that the					
	directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any					
	elevation angle above 30 degrees as measured from the horizon must not exceed					
	125 mW (21 dBm).					
	120 1111 (21 42111).					
	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum					
	conducted output power over the frequency band of operation shall not exceed 1					
	W provided the maximum antenna gain does not exceed 6 dBi.					
	If transmitting antennas of directional gain greater than 6 dBi are used, the					
	maximum conducted output power shall be reduced by the amount in dB that the					
	directional gain of the antenna exceeds 6 dBi.					
	gg					
	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the					
	maximum conducted output power over the frequency band of operation shall not					
	exceed 1 W.					
	Fixed point-to-point U-NII devices may employ antennas with directional gain up to					
	23 dBi without any corresponding reduction in the maximum conducted output					
	power.					
Toot Limits	For fixed point-to-point transmitters that employ a directional antenna gain greater					
than 23 dBi, a 1 dB reduction in maximum conducted output power is						
	each 1 dB of antenna gain in excess of 23 dBi.					
	Fixed, point-to-point operations exclude the use of point-to-multipoint systems,					
	omnidirectional applications, and multiple collocated transmitters transmitting the					
	same information. The operator of the U-NII device, or if the equipment is					
	professionally installed, the installer, is responsible for ensuring that systems					
	employing high gain directional antennas are used exclusively for fixed,					
	point-to-point operations.					
	For client devices in the 5.15-5.25 GHz band, the maximum conducted output					
	power over the frequency band of operation shall not exceed 250 mW provided the					
	maximum antenna gain does not exceed 6 dBi.					
	If transmitting antennas of directional gain greater than 6 dBi are used, the					
	maximum conducted output power shall be reduced by the amount in dB that the					
	directional gain of the antenna exceeds 6 dBi.					
	For the F OF F OF CITE and F 47 F 70F CITE hands the manifest of the second of the sec					
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output					
	power over the frequency bands of operation shall not exceed the lesser of 250					
	mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.					
	If transmitting antennas of directional gain greater than 6 dBi are used, the					
	maximum conducted output power shall be reduced by the amount in dB that the					
	directional gain of the antenna exceeds 6 dBi.					





	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
	If transmitting antennas of directional gain greater than 6 dBi are used, the
	maximum conducted output power shall be reduced by the amount in dB that the
	directional gain of the antenna exceeds 6 dBi.
	However, fixed point-to-point U-NII devices operating in this band may employ
	transmitting antennas with directional gain greater than 6 dBi without any
	corresponding reduction in transmitter conducted power. Fixed, point-to-point
	operations exclude the use of point-to-multipoint systems, omnidirectional
	applications, and multiple collocated transmitters transmitting the same
	information. The operator of the U-NII device, or if the equipment is professionally
	installed, the installer, is responsible for ensuring that systems employing high gain
	directional antennas are used exclusively for fixed, point-to-point operations.
	Method SA-1
	a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
	b) Set RBW = 1 MHz.
	c) Set VBW >= 3 MHz.
	d) Number of points in sweep >= [2 × span / RBW]. (This gives bin-to-bin spacing
	<= RBW / 2, so
	that narrowband signals are not lost between frequency bins.)
	e) Sweep time = auto.
	f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
	g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to
	enable triggering only on full power pulses. The transmitter shall operate at maximum power control
	level for the
Procedure:	entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF
Flocedule.	intervals) or
	at duty cycle >= 98%, and if each transmission is entirely at the maximum power
	control level,
	then the trigger shall be set to "free run."
	h) Trace average at least 100 traces in power averaging (rms) mode.
	i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW
	of the signal
	using the instrument's band power measurement function, with band limits set
	equal to the
	EBW or OBW band edges. If the instrument does not have a band power function,
	then sum the
	spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB
	EBW or 99%
	OBW of the spectrum.
C24 FILT Operations	OBIT OF AID SPOORWITE

6.3.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.5 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

6.3.2 Test Data:

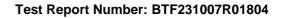
Please Refer to Appendix for Details.





6.4 Power spectral density

6.4 Power spectral	density				
	47 CFR Part 15.407(a)(1)(i)				
	47 CFR Part 15.407(a)(1)(ii)				
Test Requirement:	47 CFR Part 15.407(a)(1)(iii)				
·	47 CFR Part 15.407(a)(1)(iv)				
	47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)				
Test Method:	ANSI C63.10-2013, section 12.5				
	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the				
	directional gain of the antenna exceeds 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.				
Test Limit:	For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.				
	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.				
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.				
	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter				





	conducted power.
	Fixed, point-to-point operations exclude the use of point-to-multipoint systems,
	omnidirectional applications, and multiple collocated transmitters transmitting the
	same information. The operator of the U-NII device, or if the equipment is
	professionally installed, the installer, is responsible for ensuring that systems
	employing high gain directional antennas are used exclusively for fixed,
	point-to-point operations.
	a) Create an average power spectrum for the EUT operating mode being tested by
	following the
	instructions in 12.3.2 for measuring maximum conducted output power using a
	spectrum
	analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their
	respective alternatives) and apply it up to, but not including, the step labeled,
	"Compute
	power" (This procedure is required even if the maximum conducted output power
	measurement was performed using the power meter method PM.)
	b) Use the peak search function on the instrument to find the peak of the spectrum.
	c) Make the following adjustments to the peak value of the spectrum, if applicable:
	1) If method SA-2 or SA-2A was used, then add [10 log (1 / D)], where D is the duty
	cycle, to the peak of the spectrum.
	2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7,
	add
Procedure:	1 dB to the final result to compensate for the difference between linear averaging
Procedure.	and
	power averaging.
	d) The result is the PPSD.
	e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to
	satisfy the 1 MHz measurement bandwidth specified by some regulatory
	authorities. This
	requirement also permits use of resolution bandwidths less than 1 MHz "provided
	that the
	measured power is integrated to show the total power over the measurement
	bandwidth" (i.e.,
	1 MHz). If measurements are performed using a reduced resolution bandwidth and
	integrated
	over 1 MHz bandwidth, the following adjustments to the procedures apply:
	1) Set RBW >= 1 / T, where T is defined in 12.2 a).
	2) Set VBW >= [3 × RBW].
	3) Care shall be taken such that the measurements are performed during a period
	of continuous transmission or are corrected upward for duty cycle.

6.4.1 E.U.T. Operation:

· ·	
Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Data:

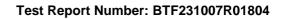
Please Refer to Appendix for Details.



6.5 Emission bandwidth and occupied bandwidth

6.5 Emission band	dwidth and occupied bandwidth					
Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.					
Toot i toquironionii	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)					
Test Method:	ANSI C63.10-2013, section 6.9.3 & 12.4					
Tool Woulde.	KDB 789033 D02, Clause C.2					
	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.					
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the					
	minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.					
	Emission bandwidth:					
	a) Set RBW = approximately 1% of the emission bandwidth.					
	b) Set the VBW > RBW.					
	c) Detector = peak.					
	d) Trace mode = max hold.					
	e) Measure the maximum width of the emission that is 26 dB down from the peak					
	of the emission.					
	Compare this with the RBW setting of the instrument. Readjust RBW and repeat					
	measurement					
	as needed until the RBW/EBW ratio is approximately 1%.					
	O a sumia di la aradoni della					
	Occupied bandwidth:					
	a) The instrument center frequency is set to the nominal EUT channel center					
	frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times					
	the OBW.					
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of					
	the OBW,					
	and VBW shall be approximately three times the RBW, unless otherwise specified					
	by the					
	applicable requirement.					
	c) Set the reference level of the instrument as required, keeping the signal from					
	exceeding the					
Procedure:	maximum input mixer level for linear operation. In general, the peak of the spectral					
	envelope					
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific					
	guidance is given					
	in 4.1.5.2.					
	d) Step a) through step c) might require iteration to adjust within the specified					
	range.					
	e) Video averaging is not permitted. Where practical, a sample detection and single					
	sweep mode					
	shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be					
	used.					
	f) Use the 99% power bandwidth function of the instrument (if available) and report					
	the measured					
	bandwidth.					
	g) If the instrument does not have a 99% power bandwidth function, then the trace					
	data points are					
	recovered and directly summed in linear power terms. The recovered amplitude					
	data points,					
	beginning at the lowest frequency, are placed in a running sum until 0.5% of the					
	total is reached;					
	that frequency is recorded as the lower frequency. The process is repeated until					
	99.5% of the					
	total is reached; that frequency is recorded as the upper frequency. The 99%					

Test Report Number: BTF231007R01804





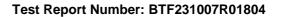
power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing plot(s) of the measuring display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s). 6 dB emission bandwidth: a) Set RBW = 100 kHz. b) Set the video bandwidth (VBW) ≥ 3 >= 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.

6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Data:

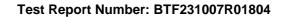
Please Refer to Appendix for Details.





6.6 Band edge emissions (Radiated)

	47 CFR Part 15.407(b)	(1)							
T	47 CFR Part 15.407(b)	47 CFR Part 15.407(b)(2)							
Test Requirement:		47 CFR Part 15.407(b)(4)							
	47 CFR Part 15.407(b)(10)								
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6								
TOST MICHIOG.	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the								
	5.15-5.35 GHz band sh	nall not exceed an e.i.r.	p. of −27 dBm/M	IHz.					
	For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.								
	For transmitters operat	ting solely in the 5.725-	5.850 GHz band	l:					
	All emissions shall be I	imited to a level of −27	dBm/MHz at 75	MHz or more above					
	or below the band edge								
	below the band edge, a								
	linearly to a level of 15								
	from 5 MHz above or b		creasing linearly	to a level of 27					
	dBm/MHz at the band	edge.							
	MHz	MHz	MHz	GHz					
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
	4.20725-4.20775	73-74.6	1645.5-1646.	9.3-9.5					
			5						
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7					
	6.26775-6.26825	108-121.94	1718.8-1722. 2	13.25-13.4					
Test Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5					
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
	8.362-8.366	156.52475-156.525 25	2483.5-2500	17.7-21.4					
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12					
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0					
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5					
	12.57675-12.57725 13.36-13.41	322-335.4	3600-4400	(²)					
	¹ Until February 1, 1999), this restricted band s	nall be 0.490-0.5	510 MHz.					
	² Above 38.6								
	The field strength of en exceed the limits show MHz, compliance with measurement instrume 1000 MHz, compliance based on the average 15.35apply to these me	n in § 15.209. At frequenthe limits in § 15.209shentation employing a Clewith the emission limit value of the measured	encies equal to o all be demonstra SPR quasi-peak s in § 15.209sha	or less than 1000 ated using a detector. Above all be demonstrated					
	Event as any district	and and in this and a	the excitation of						
	Except as provided els	ewhere in this subpart,	tne emissions fr	rom an intentional					

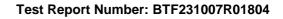




	radiator shall not exceed to	ne field strength levels speci	fied in the following table:			
	Frequency (MHz)	Field strength	Measurement			
		(microvolts/meter)	distance			
		,	(meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
			0			
Procedure:	above the ground at a 3 m degrees to determine the pb. The EUT was set 3 met was mounted on the top of c. The antenna height is videtermine the maximum vipolarizations of the antenna d. For each suspected em the antenna was tuned to of below 30MHz, the anterwas turned from 0 degrees e. The test-receiver syster Bandwidth with Maximum f. If the emission level of the specified, then testing coureported. Otherwise the erre-tested one by one using in a data sheet. g. Test the EUT in the lower transmitting mode, and for	s to 360 degrees to find the r n was set to Peak Detect Ful	The table was rotated 360 on. ce-receiving antenna, which ower. meters above the ground to the horizontal and vertical urement. d to its worst case and then eters (for the test frequency neter) and the rotatable table maximum reading. Inction and Specified OdB lower than the limit values of the EUT would be odB margin would be specified and then reported nel, the Highest channel. Z axis positioning for hich it is the worst case.			
	Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious					
	emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits					
	not exceed the maximum pdB under any condition of than the average limit, only 4. The disturbance above		shown in the report. e harmonics were the			

6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.5 °C		
Humidity:	50.6 %		

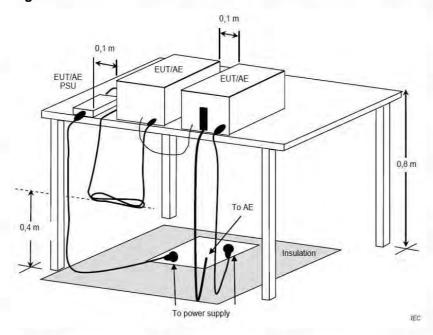


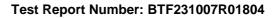


Atmospheric Pressure:

1010 mbar

6.6.2 Test Setup Diagram:







6.6.3 Test Data:

Note: All the mode have been tested, and only the worst mode 802.11a are in the report UNII-1 20M 5180MHz Horizontal

		_	_						
N	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1 *	5148.180	78.47	-27.25	51.22	74.00	-22.78	peak	Р
2	2	5150.000	76.61	-27.24	49.37	74.00	-24.63	peak	Р

UNII-1 20M_5180MHz_Vertical

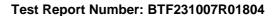
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5145.060	85.28	-27.25	58.03	74.00	-15.97	peak	Р
2	5150.000	82.75	-27.24	55.51	74.00	-18.49	peak	Р

UNII-1 20M 5320MHz Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5350.000	53.10	6.37	59.47	125.20	-65.73	peak	Р
2	5460.000	41.99	6.57	48.56	125.20	-76.64	peak	Р

UNII-1 20M_5320MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5350.000	61.49	4.63	66.12	125.20	-59.08	peak	Р
2	5460.000	43.74	4.79	48.53	125.20	-76.67	peak	Р





UNII-3 20M_5745MHz_Horizontal

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	171
1	5650.000	87.72	-31.86	55.86	68.20	-12.34	peak	Р
2	5700.000	94.66	-31.97	62.69	105.60	-42.91	peak	Р
3	5720.000	95.56	-32.03	63.53	110.8	-47.27	peak	Р

UNII-1 20M_5745MHz_Vertical

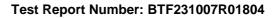
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	171
1	5650.000	88.47	-31.77	56.70	68.20	-11.50	peak	Р
2	5700.000	95.41	-31.88	63.53	105.60	-42.07	peak	Р
3	5720.000	96.31	-31.94	64.37	110.8	-46.43	peak	Р

UNII-3 20M 5825MHz Horizontal

	_	_						
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	5850.000	87.98	-31.90	56.08	122.20	-66.12	peak	Р
2	5875.000	94.92	-32.01	62.91	110.80	-47.89	peak	Р
3	5925.000	95.82	-32.07	63.75	68.20	-4.45	peak	Р

UNII-3 20M_5825MHz_Vertical

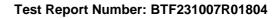
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.000	87.48	-31.76	55.72	122.20	-66.48	peak	Р
2	5875.000	94.42	-31.87	62.55	110.80	-48.25	peak	Р
3	5925.000	95.32	-31.93	63.39	68.20	-4.81	peak	Р





6.7 Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(,	
Test Method:		tion 12.7.4, 12.7.5, 12.7.6	
	limits set forth in § 15.20 Except as provided else	elow 1 GHz must comply with the comply with the complex subpart, the emised the field strength levels specifield strength	ssions from an intentional
Test Limit:	r requericy (Wiriz)	(microvolts/meter)	distance (meters)
	0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960	2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 ** 500	300 30 30 3 3 3 3 3
Procedure:	Below 1GHz: a. For below 1GHz, the above the ground at a 3 degrees to determine the b. The EUT was set 3 o which was mounted on c. The antenna height is determine the maximum polarizations of the antend. For each suspected of the antenna was tuned of below 30MHz, the an was turned from 0 degree. The test-receiver sys Bandwidth with Maximum f. If the emission level of specified, then testing or reported. Otherwise the re-tested one by one us data sheet. g. Test the EUT in the loth. The radiation measur Transmitting mode, and i. Repeat above proced Remark: 1. Level= Read Level+ 12. Scan from 9kHz to 30 points marked on above testing, so only above pemissions from the radineed not be reported. 3. The disturbance belo	EUT was placed on the top of a meter semi-anechoic chamber the position of the highest radiator 10 meters away from the intest the top of a variable-height antor a varied from one meter to four an value of the field strength. Both are set to make the measurements are set to make the measurements are set to make the measurements are set to make the measurements. The elements was tuned to heights 1 mees to 360 degrees to find the internation was set to Peak Detect Full meters.	a rotating table 0.8 meters r. The table was rotated 360 ion. rference-receiving antenna, tenna tower. meters above the ground to th horizontal and vertical urement. det to its worst case and then eters (for the test frequency neter) and the rotatable table maximum reading. Inction and Specified OdB lower than the limit values of the EUT would be odB margin would be cified and then reported in a linel, the Highest channel. Z axis positioning for thich it is the worst case. Ureamp Factor OMHz was very low. The line could be found when amplitude of spurious ethan 20dB below the limit tharmonics were the highest

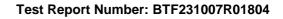




- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

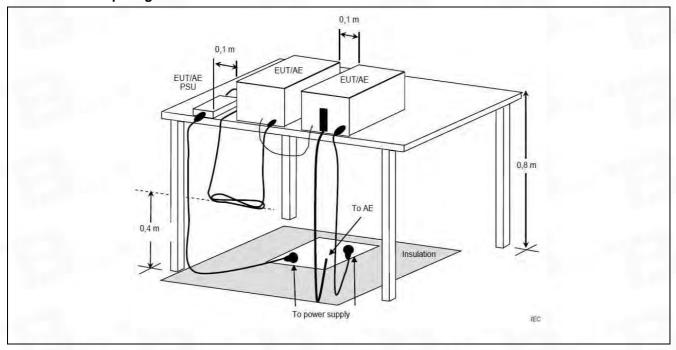
6.7.1 E.U.T. Operation:

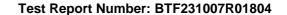
Operating Env	ironment:			
Temperature:	25.5 °C			
Humidity:	50.6 %			
Atmospheric F	ressure: 1010 mba	ar		





6.7.2 Test Setup Diagram:

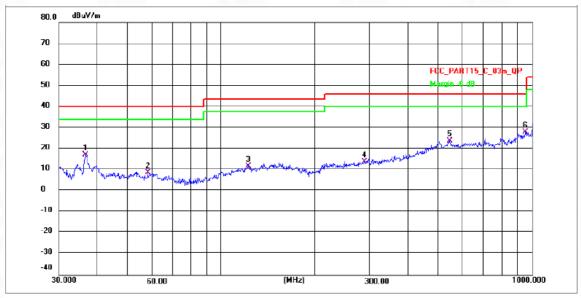






6.7.3 Test Data:

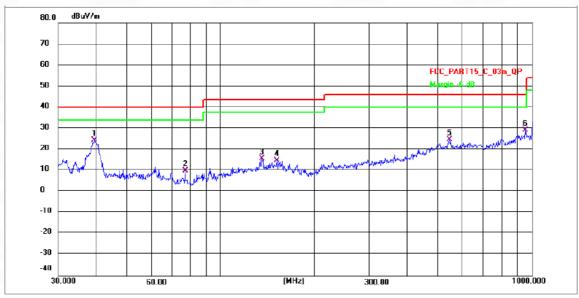
Note: All the mode have been tested, and only the worst mode are in the report TM1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: L



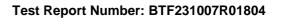
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	36.7018	35.51	-18.44	17.07	40.00	-22.93	QP	Р
2	58.2030	26.94	-18.20	8.74	40.00	-31.26	QP	Р
3	122.1896	39.80	-28.03	11.77	43.50	-31.73	QP	Р
4	290.0172	39.39	-25.51	13.88	46.00	-32.12	QP	Р
5	543.2742	45.30	-21.59	23.71	46.00	-22.29	QP	Р
6 *	952.0937	49.63	-21.77	27.86	46.00	-18.14	QP	Р



TM1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: L



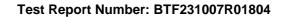
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	39.4371	44.94	-20.54	24.40	40.00	-15.60	QP	Р
2	76.7808	29.71	-19.88	9.83	40.00	-30.17	QP	Р
3	135.7440	24.30	-8.64	15.66	43.50	-27.84	QP	Р
4	151.5972	29.35	-14.45	14.90	43.50	-28.60	QP	Р
5	545.1826	36.40	-11.61	24.79	46.00	-21.21	QP	Р
6	953.7645	50.84	-21.75	29.09	46.00	-16.91	QP	Р





6.8 Undesirable emission limits (above 1GHz)

	oda) emini noicenna	*							
	47 CFR Part 15.407(b)								
Test Requirement:	47 CFR Part 15.407(b)								
root requirement.	47 CFR Part 15.407(b)	,							
	47 CFR Part 15.407(b))(10)							
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6								
	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the								
	5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.								
	For transmitters opera	ting in the 5.25-5.35 GH	Hz band: All emis	ssions outside of the					
	5.15-5.35 GHz band sl	nall not exceed an e.i.r.	p. of −27 dBm/N	1Hz.					
		ting solely in the 5.725-							
		limited to a level of −27							
		e increasing linearly to							
		and from 25 MHz above							
		.6 dBm/MHz at 5 MHz							
		pelow the band edge in	creasing linearly	to a level of 27					
	dBm/MHz at the band			0.11					
	MHz	MHz	MHz	GHz					
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
	10.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
	4.20725-4.20775	73-74.6	1645.5-1646. 5	9.3-9.5					
	6.215-6.218	74.8-75.2 1660-1710		10.6-12.7					
	6.26775-6.26825	108-121.94	1718.8-1722.	13.25-13.4					
	0.20775-0.20825	100-121.94	2	13.23-13.4					
	6.31175-6.31225	123-138	2200-2300	14.47-14.5					
Test Limit:	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
	8.362-8.366	156.52475-156.525	2483.5-2500	17.7-21.4					
	0.002-0.000	25	2400.0-2000	17.7-21.4					
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12					
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0					
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
	12.51975-12.52025		3345.8-3358	36.43-36.5					
	12.57675-12.57725	322-335.4	3600-4400	(²)					
	13.36-13.41	022 000.1	0000 1100	()					
	¹ Until February 1, 1999	e, this restricted band s	hall be 0.490-0.5	510 MHz.					
	² Above 38.6								
		nissions appearing with							
	exceed the limits show	n in § 15.209. At freque	encies equal to c	or less than 1000					
		the limits in § 15.209sh							
		entation employing a Cl							
		with the emission limit							
		value of the measured	emissions. The	provisions in §					
	15.35apply to these m	easurements.							
	Except as provided els	ewhere in this subpart,	the emissions for	rom an intentional					
		ed the field strength lev							
	Frequency (MHz)	Field strength		Measurement					
	1 104001103 (1711112)	. ioia onongan							





	(microvolts/meter)	distance
		(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3
Above 1GHz:		
a. For above 1GHz,	the EUT was placed on the top of	a rotating table 1.5 meters
	t a 3 meter fully-anechoic chamber	•

- above the ground at a 3 meter fully-anechoic chamber. The table was rotated $360\,$ degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.8.1 E.U.T. Operation:

Procedure:

Operating Environment:	
Temperature:	25.5 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar



Test Report Number: BTF231007R01804

6.8.2 Test Data:

Note:All of the mode had be tested, only the worse mode of 802.11a are show in the report: UNII-1_20M_5180MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	10438.873	85.47	-24.49	60.98	74.00	-13.02	peak	P
2	14255.157	80.36	-21.14	59.22	74.00	-14.78	peak	Р

UNII-1_20M_5180MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	10357.726	87.16	-24.45	62.71	74.00	-11.29	peak	Р
2	15546.413	82.97	-21.51	61.46	74.00	-12.54	peak	P

UNII-1_20M_5200MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	10402.730	86.11	-24.47	61.64	74.00	-12.36	peak	Р
2 *	15600.428	83.86	-21.51	62.35	74.00	-11.65	peak	Р

UNII-1_20M_5200MHz_Vertical

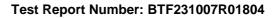
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	10390.709	85.35	-24.47	60.88	74.00	-13.12	peak	Р
2 *	15600.428	82.83	-21.51	61.32	74.00	-12.68	peak	Р

UNII-1_20M_5240MHz_Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	10438.873	84.47	-24.49	59.98	74.00	-14.02	peak	Р
2	14255.157	80.36	-21.14	59.22	74.00	-14.78	peak	Р
3	17028.299	76.23	-18.17	58.06	74.00	-15.94	peak	Р

UNII-1_20M_5240MHz_Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	10444.910	83.40	-24.49	58.91	74.00	-15.09	peak	Р
2 *	15659.157	81.13	-21.53	59.60	74.00	-14.40	peak	Р





UNII-3_20M_5745MHz_Horizontal

- 1									
	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
	1	11490.000	82.87	-24.07	58.80	74.00	-15.20	peak	Р
	2	17235.000	78.17	-20.72	57.45	74.00	-16.55	peak	Р
,				UNII-3	20M 5745N	/Hz Vertical			

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
1	11490.000	83.55	-24.04	59.51	74.00	-14.49	peak	Р
2	17235.000	78.85	-20.69	58.16	74.00	-15.84	peak	Р

UNII-3_20M_5785MHz_Horizontal

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	17/1
1	11570.000	81.09	-23.28	57.81	74.00	-16.19	peak	Р
2	17355.000	76.39	-19.93	56.46	74.00	-17.54	peak	Р

UNII-3_20M_5785MHz_Vertical

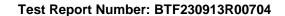
No.	570	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	11750.000	81.46	-23.13	58.33	74.00	-15.67	peak	Р
2	17355.000	76.76	-19.78	56.98	74.00	-17.02	peak	Р

UNII-3_20M_5825MHz_Horizontal

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	171
1	11650.000	80.67	-23.37	57.30	74.00	-16.70	peak	Р
2	17475.000	75.97	-20.02	55.95	74.00	-18.05	peak	Р

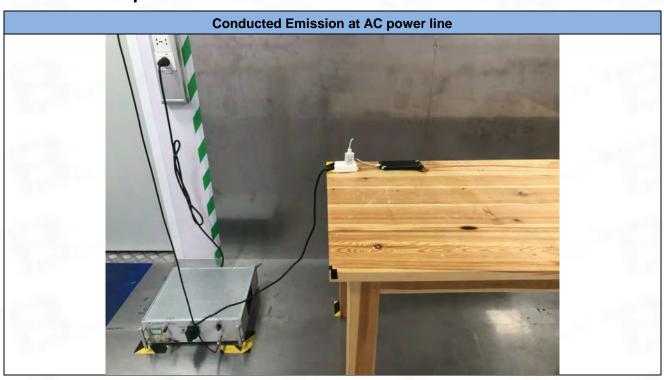
UNII-3_20M_5825MHz_Vertical

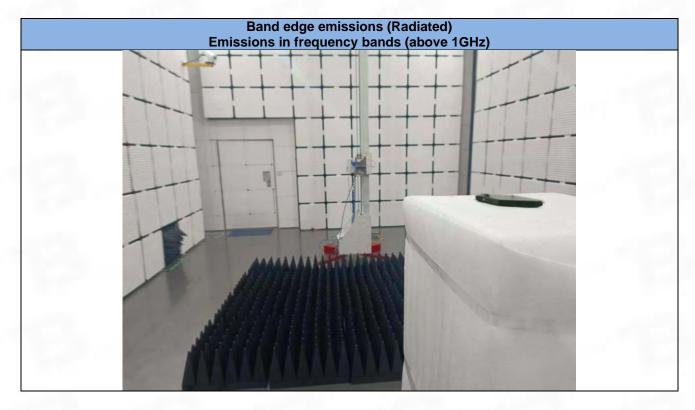
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	11650.000	81.21	-23.28	57.93	74.00	-16.07	peak	Р
2	17475.000	76.51	-19.93	56.58	74.00	-17.42	peak	Р

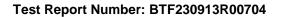




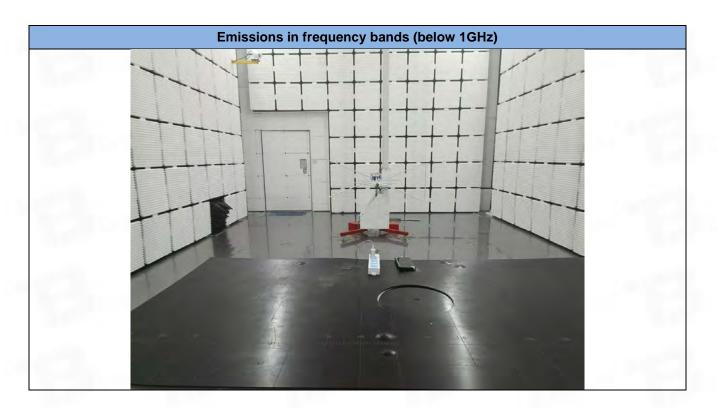
7 **Test Setup Photos**

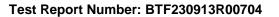








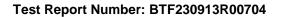






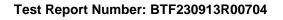
EUT Constructional Details (EUT Photos)

Please refer to the test report NO. BTF231007R01801





Appendix





1. Duty Cycle

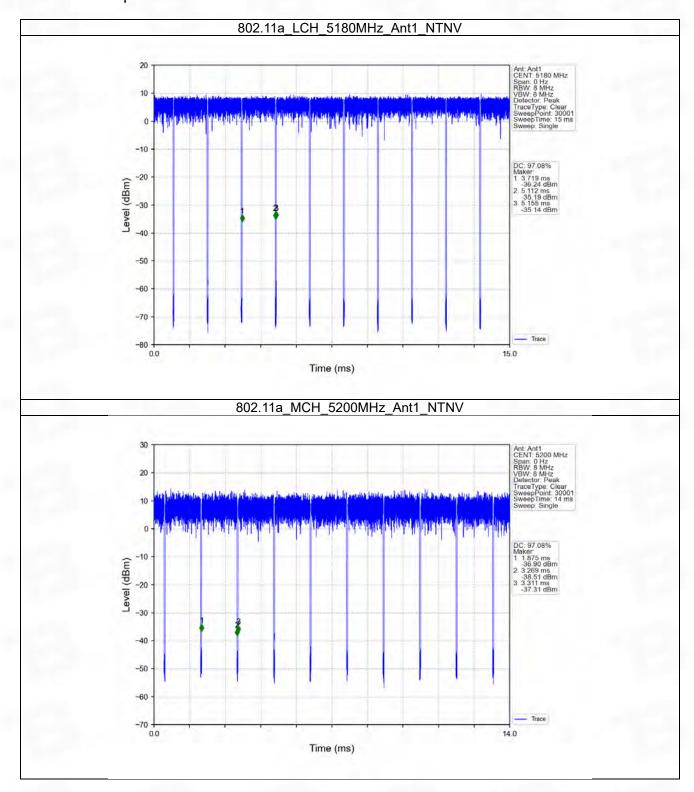
1.1 Ant1

1.1.1 Test Result

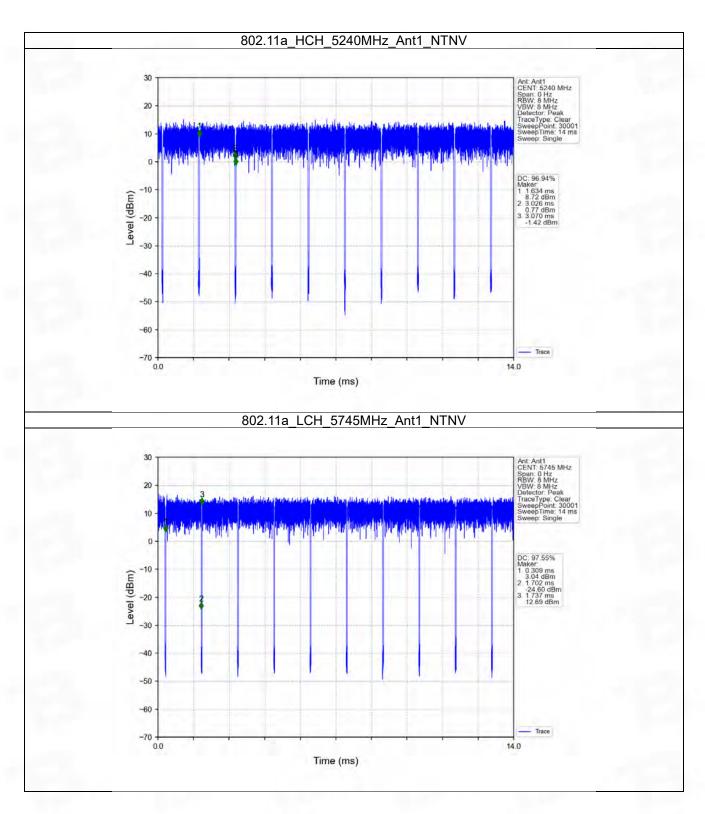
					Ant1		
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
802.11a	SISO	5180	1.394	1.436	97.08	0.13	0.03
		5200	1.394	1.436	97.08	0.13	0.03
		5240	1.392	1.436	96.94	0.14	0.03
002.11a		5745	1.393	1.428	97.55	0.11	0.03
		5785	1.392	1.428	97.48	0.11	0.03
		5825	1.393	1.428	97.55	0.11	0.07
	SISO	5180	1.301	1.345	96.73	0.14	0.10
		5200	1.302	1.345	96.80	0.14	0.03
802.11n		5240	1.300	1.344	96.73	0.14	0.03
(HT20)		5745	1.301	1.337	97.31	0.12	0.07
		5785	1.300	1.336	97.31	0.12	0.04
		5825	1.300	1.336	97.31	0.12	0.03
	SISO	5190	0.648	0.692	93.64	0.29	0.03
802.11n		5230	0.649	0.693	93.65	0.28	0.07
(HT40)		5755	0.648	0.683	94.88	0.23	0.03
		5795	0.649	0.683	95.02	0.22	0.03
	SISO	5180	1.314	1.356	96.90	0.14	0.03
		5200	1.314	1.357	96.83	0.14	0.03
802.11ac		5240	1.313	1.356	96.83	0.14	0.03
(VHT20)		5745	1.312	1.348	97.33	0.12	0.03
		5785	1.312	1.348	97.33	0.12	0.07
		5825	1.314	1.348	97.48	0.11	0.07
802.11ac (VHT40)	SISO	5190	1.313	1.357	96.76	0.14	0.03
		5230	0.652	0.696	93.68	0.28	0.04
		5755	0.653	0.687	95.05	0.22	0.03
		5795	0.652	0.687	94.91	0.23	0.07
802.11ac	SISO	5210	0.324	0.368	88.04	0.55	0.07
(VHT80)	3130	5775	0.249	0.284	87.68	0.57	0.04



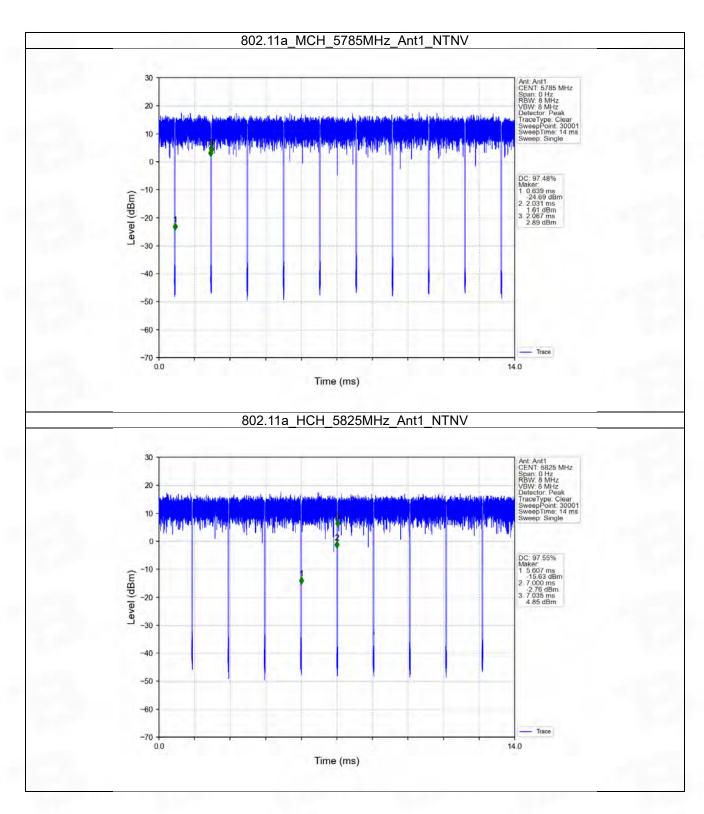
1.1.2 Test Graph



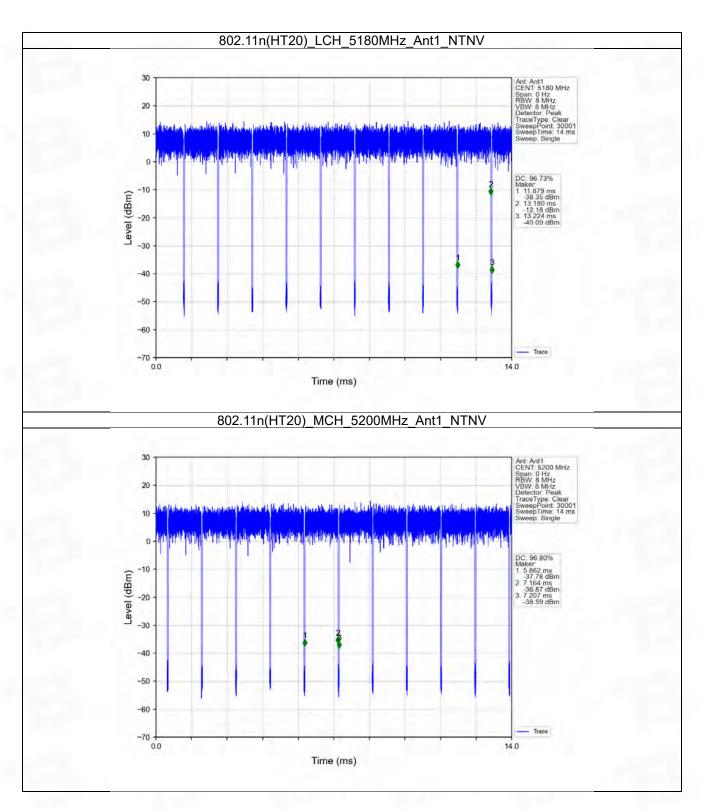




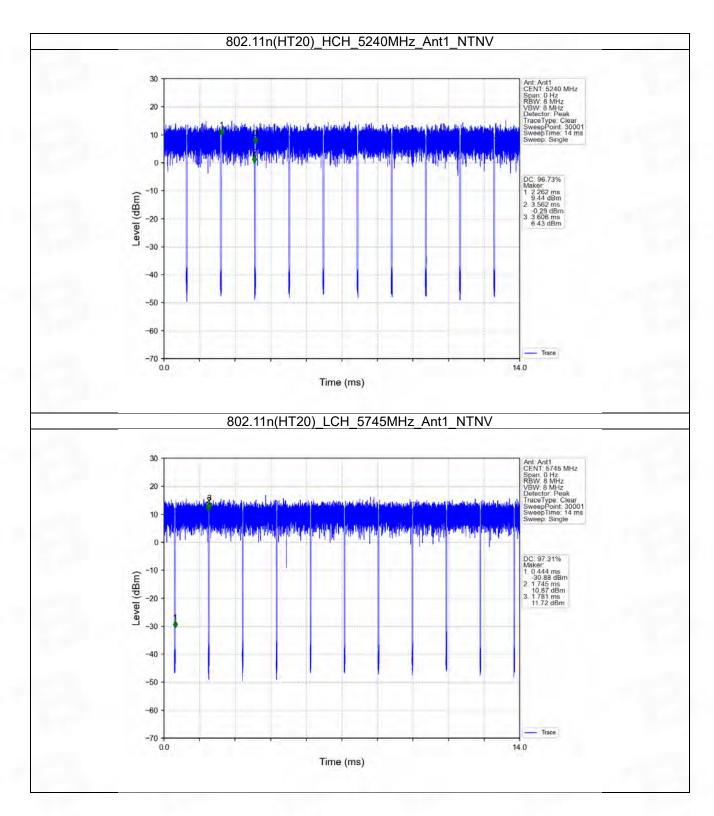




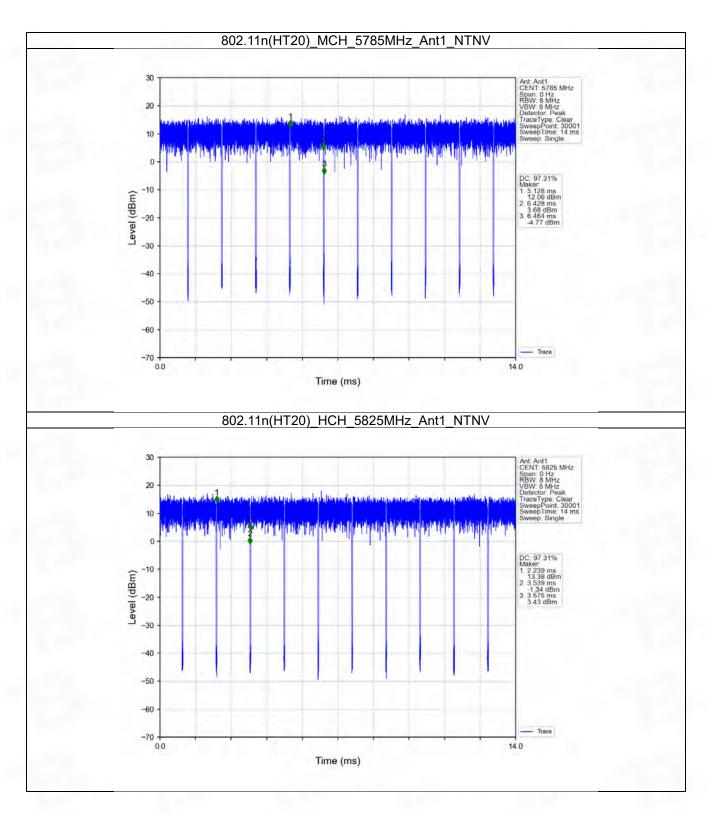




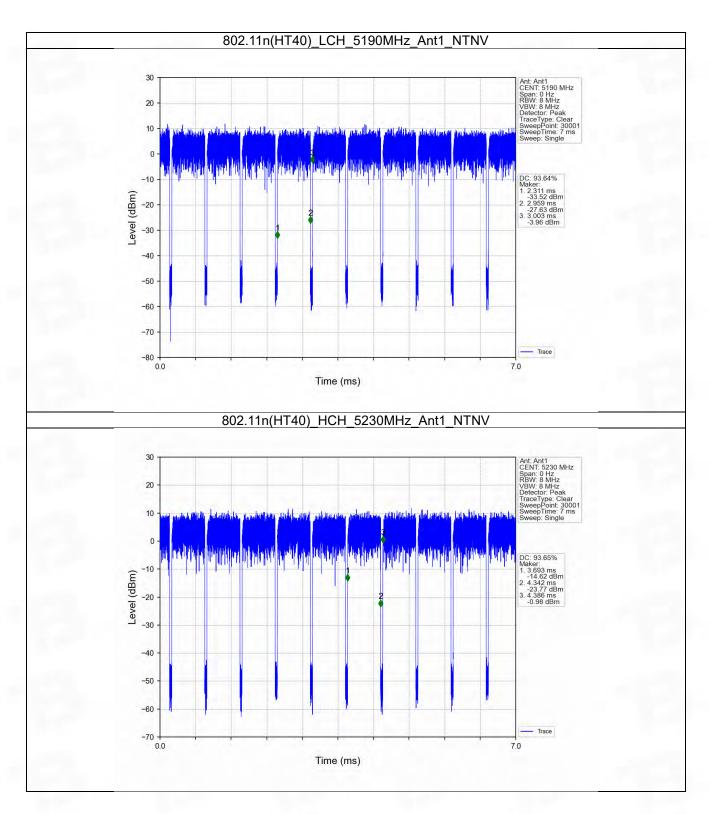




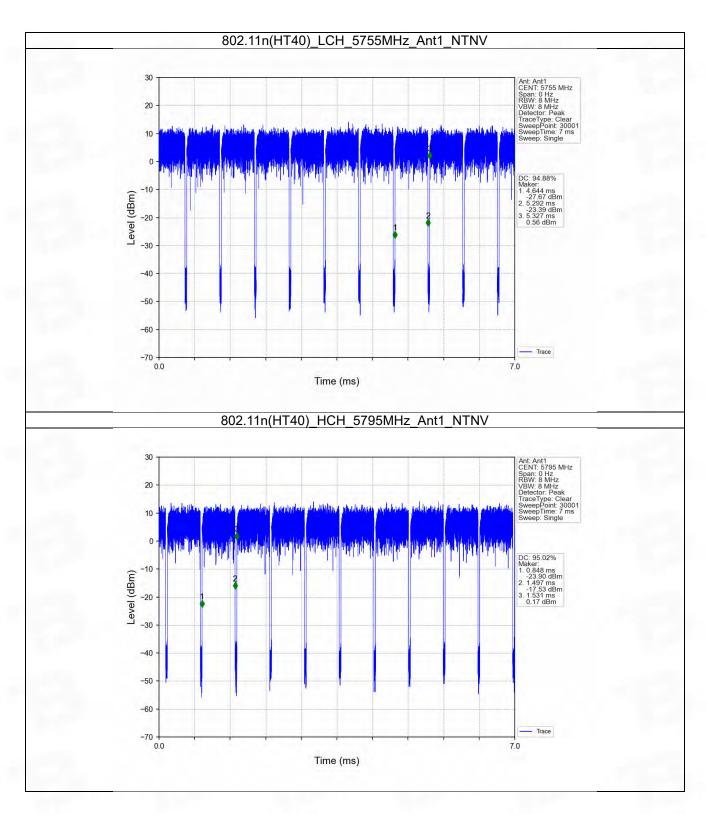




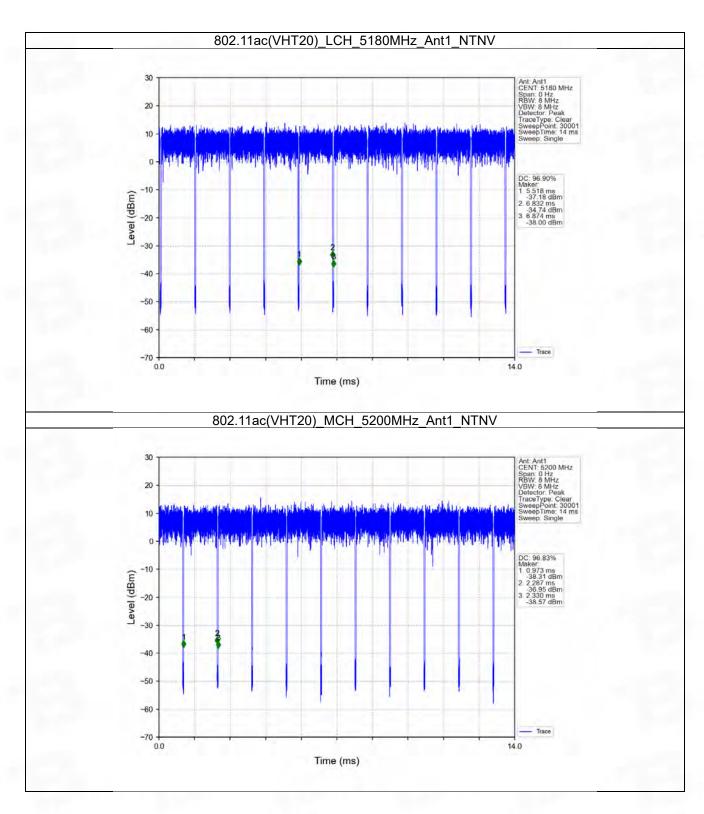




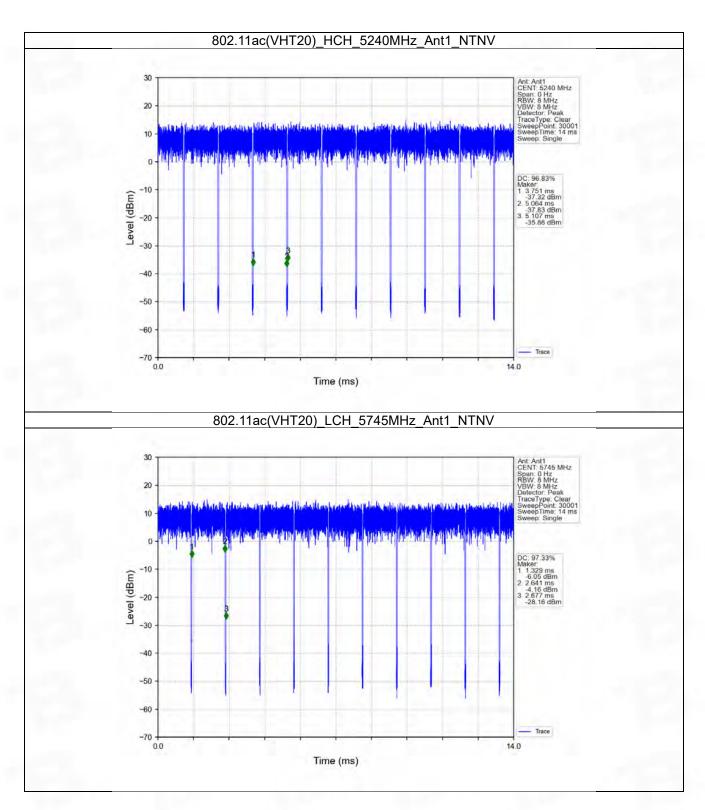




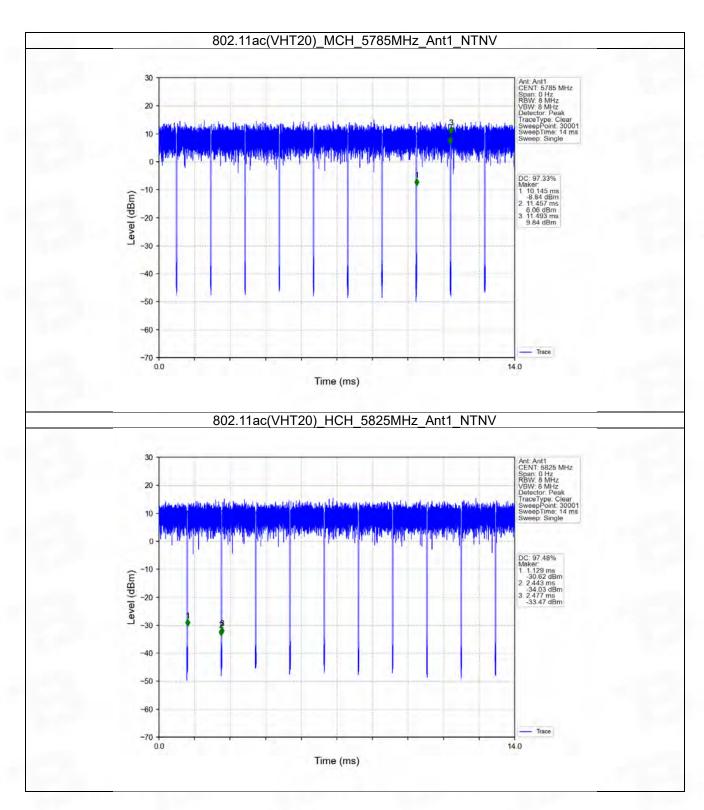




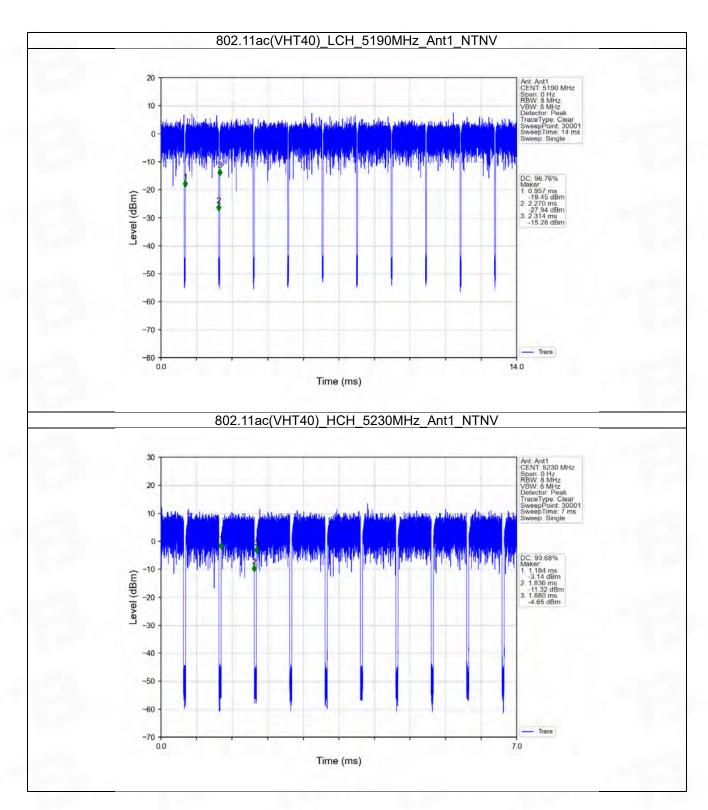




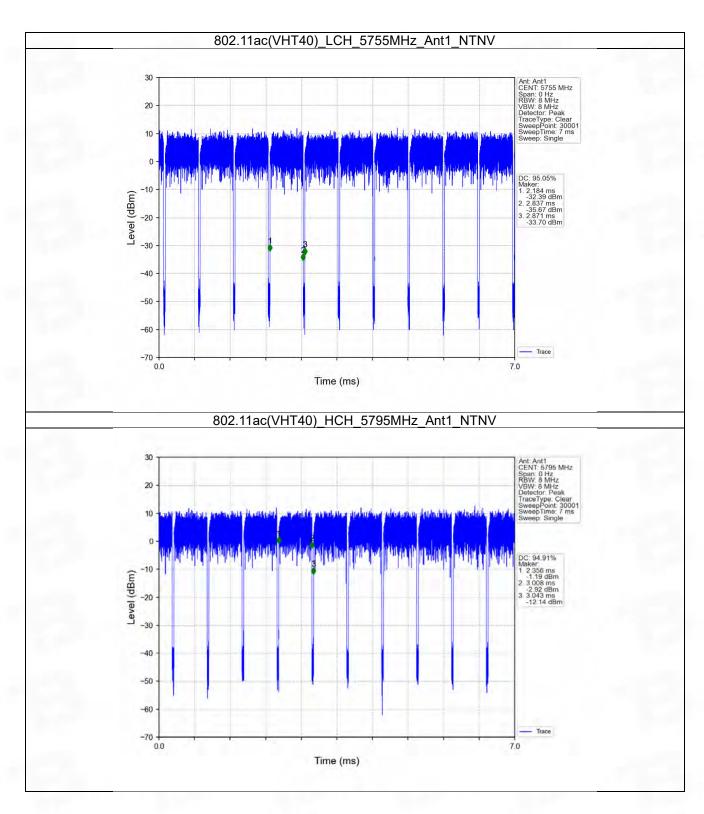




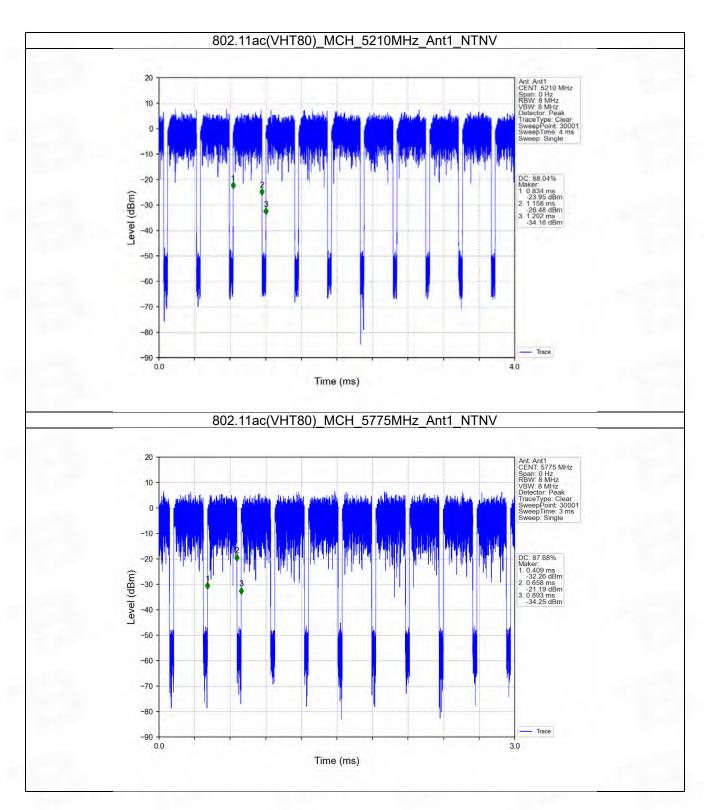


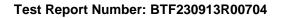












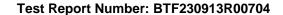


2. Bandwidth

2.1 OBW

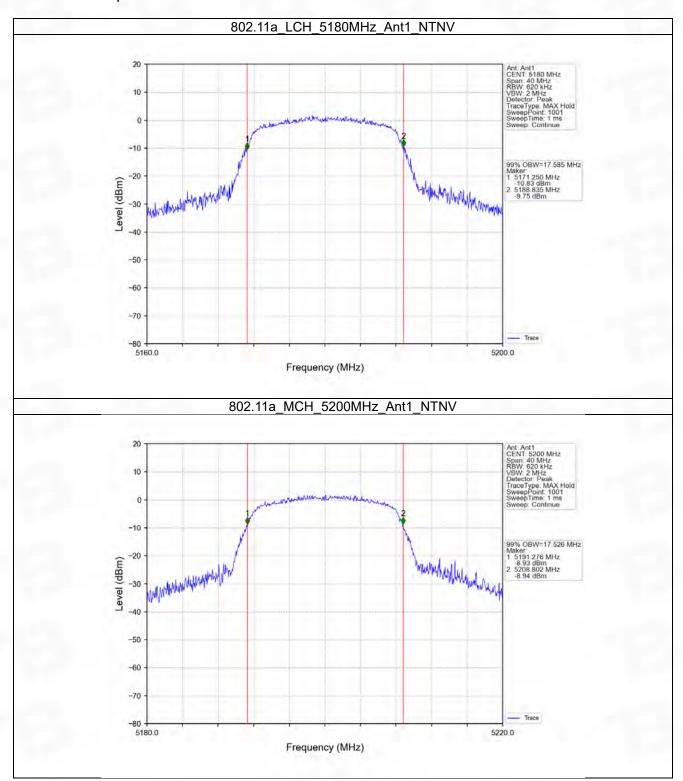
2.1.1 Test Result

Mode	TX	Frequency (MHz) ANT	ANIT	99% Occupied Ba	Vordict	
	Type		ANI	Result	Limit	Verdict
	SISO	5180	1	17.585	1	Pass
		5200	1	17.526	1	Pass
000 44-		5240	1	17.637	1	Pass
802.11a		5745	1	17.819	1	Pass
		5785	1	18.112	1	Pass
		5825	1	18.070		Pass
	SISO	5180	1	18.545	1	Pass
		5200	1	18.519	1	Pass
802.11n		5240	1	18.549	1	Pass
(HT20)		5745	1	18.731	1	Pass
		5785	1	18.702		Pass
		5825	1	18.836	1	Pass
	SISO	5190	1	37.106	1	Pass
802.11n		5230	1	37.172	1	Pass
(HT40)		5755	1	37.300	1	Pass
		5795	1	37.182		Pass
	SISO	5180	1	18.343	1	Pass
		5200	1	18.364	1	Pass
802.11ac		5240	1	18.376	1	Pass
(VHT20)		5745	1	18.405	1	Pass
,		5785	1	18.054	1	Pass
		5825	1	18.476	1	Pass
	SISO	5190	1	18.797	1	Pass
802.11ac		5230	1	36.543	1	Pass
(VHT40)		5755	1	36.714	1	Pass
,		5795	1	36.711	1	Pass
802.11ac	SISO	5210	1	76.175	1	Pass
(VHT80)		5775	1	77.774	1	Pass

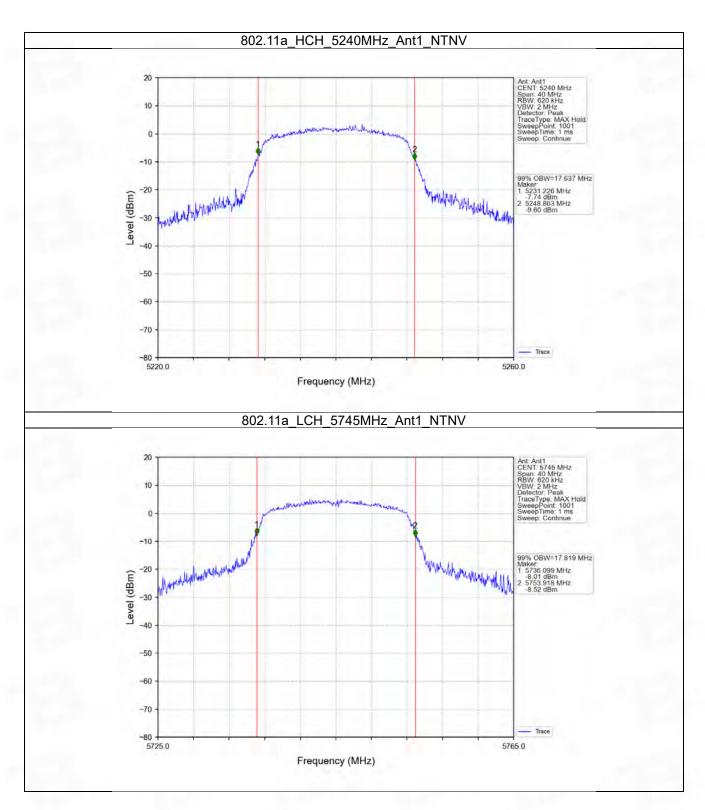




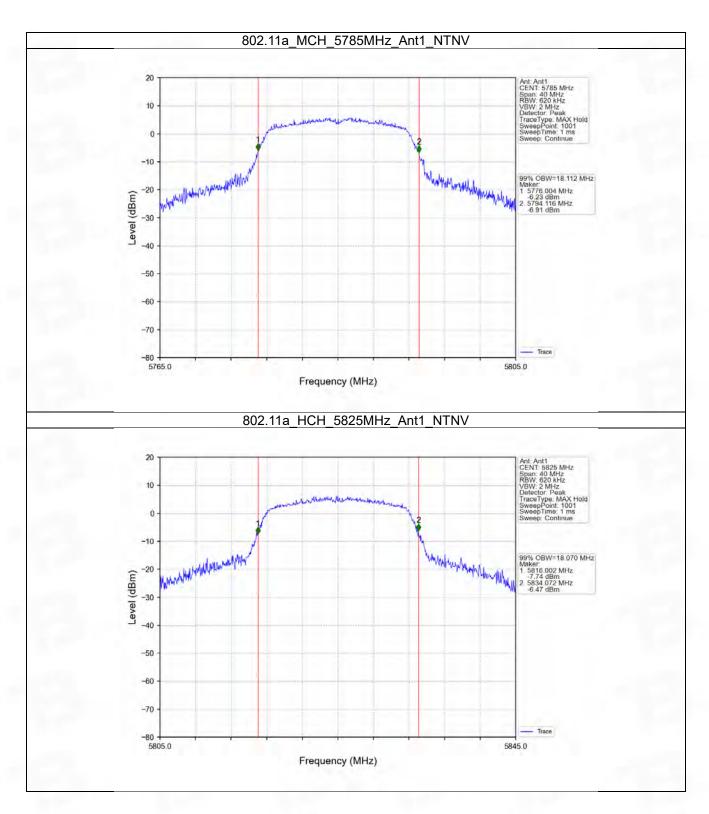
2.1.2 Test Graph



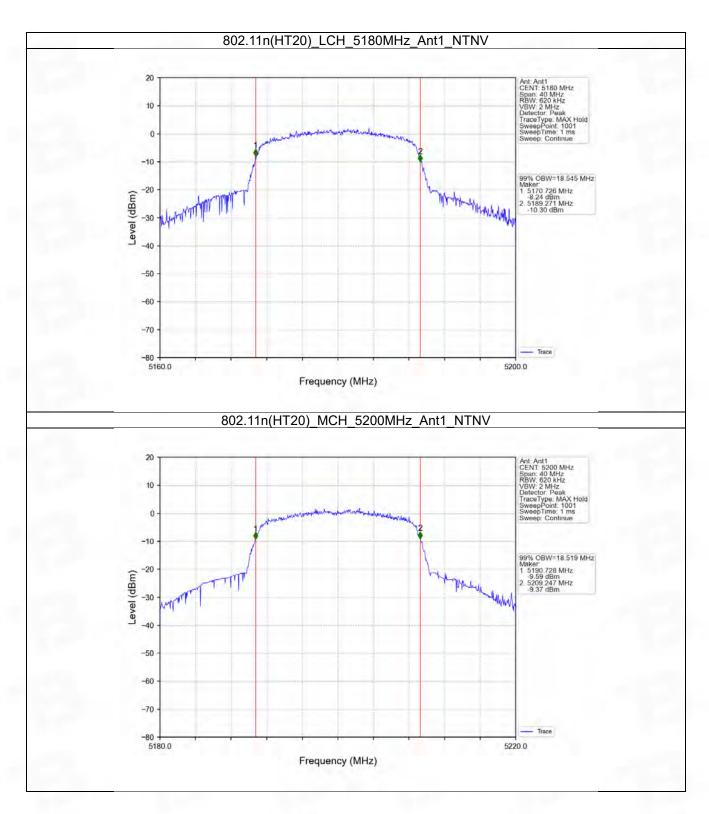




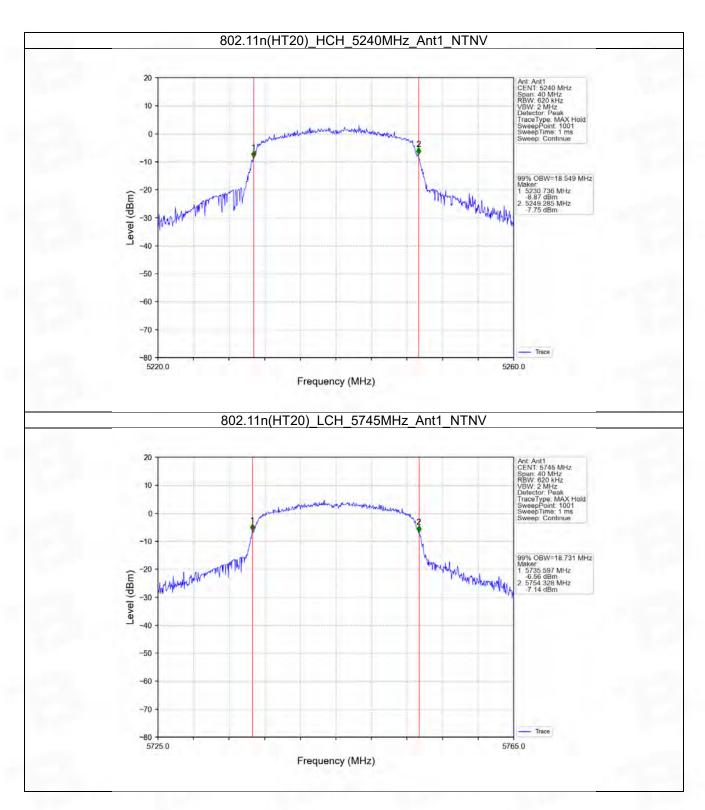




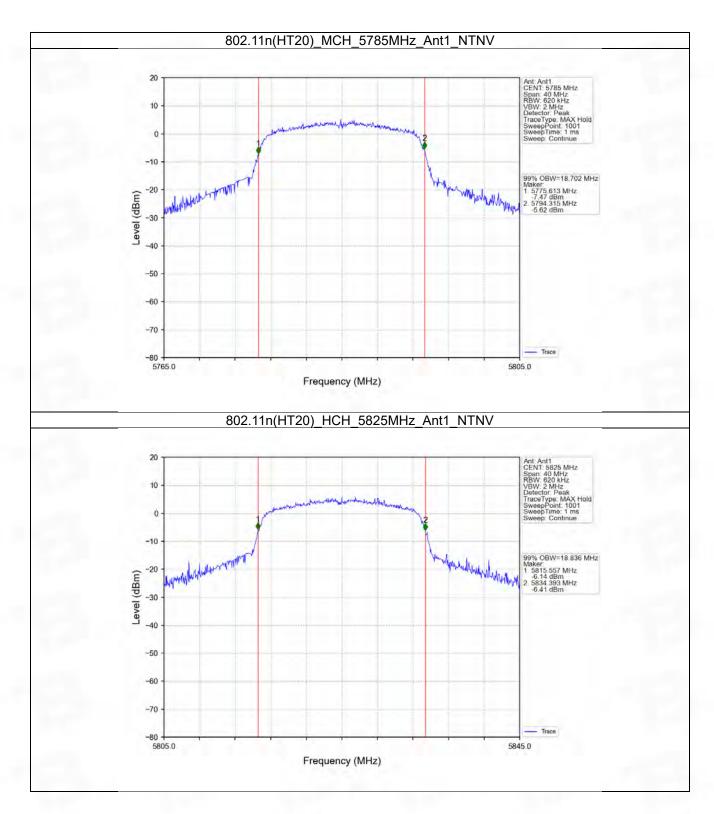




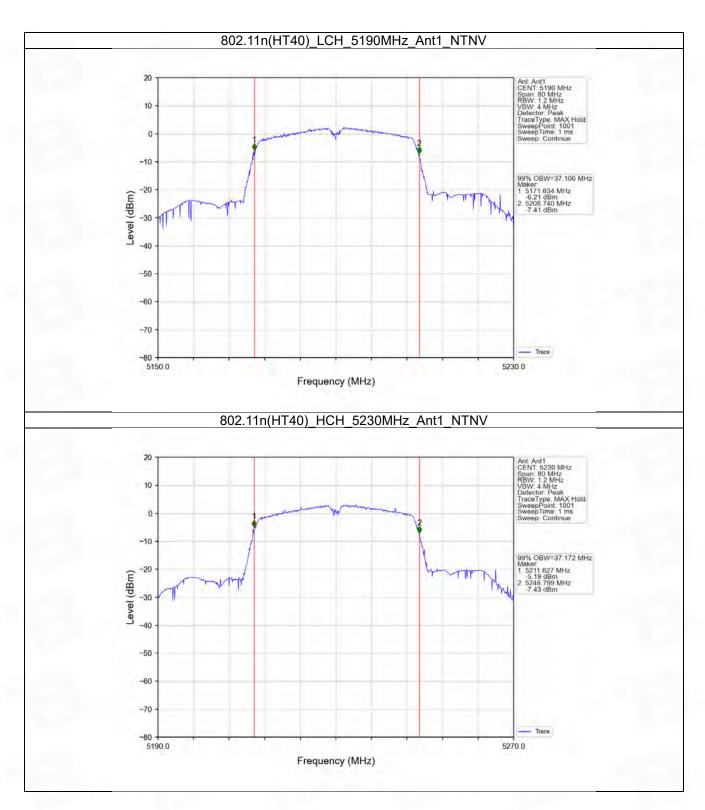




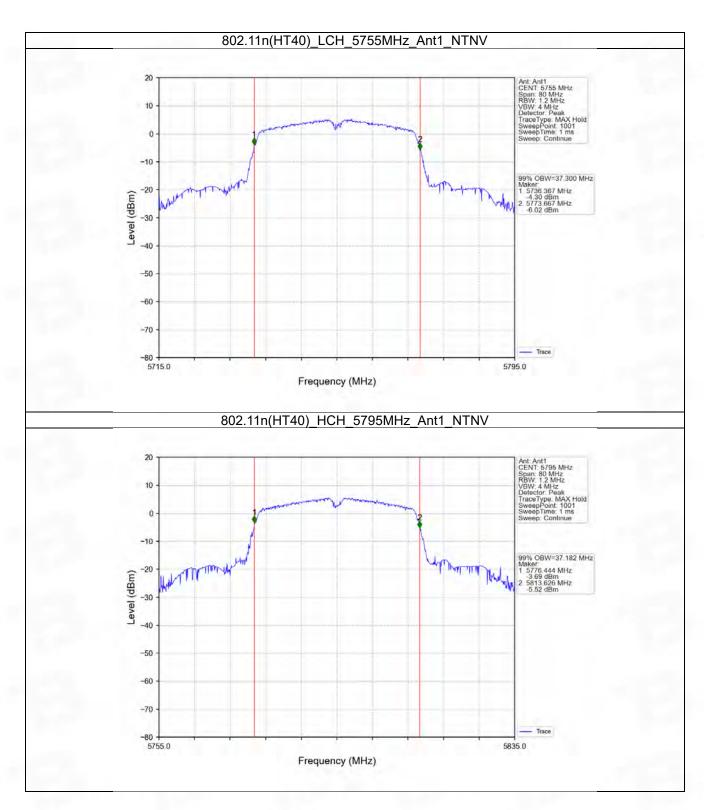




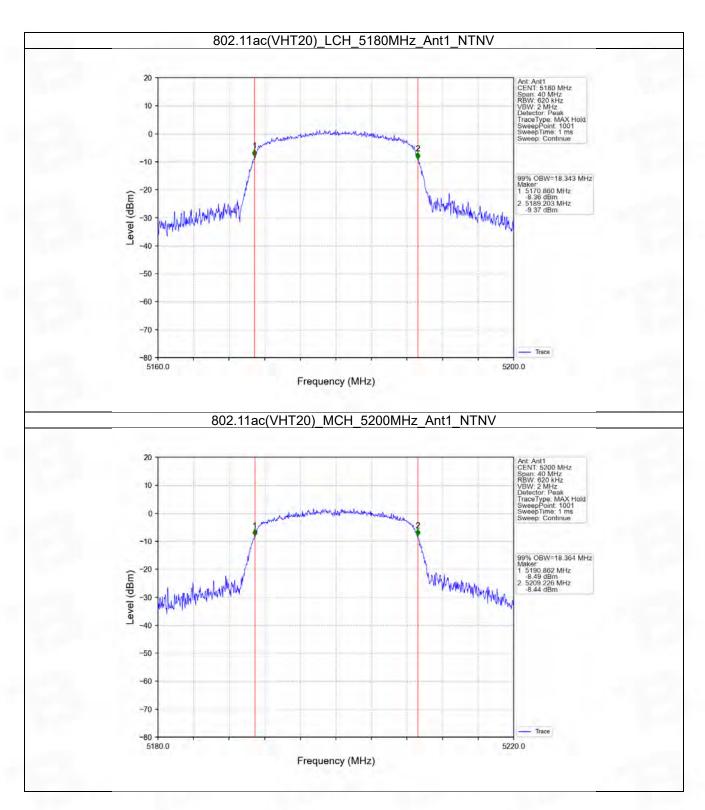




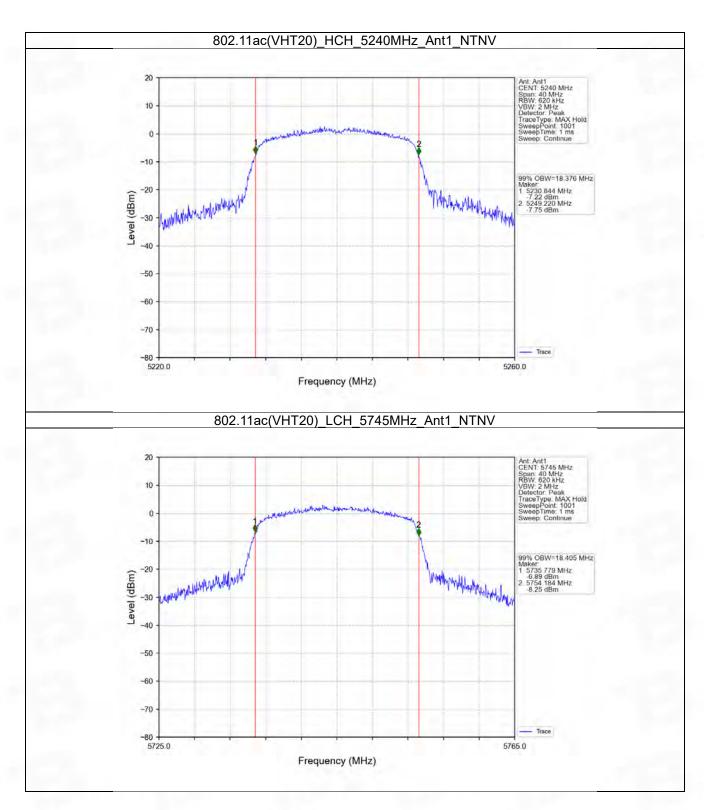




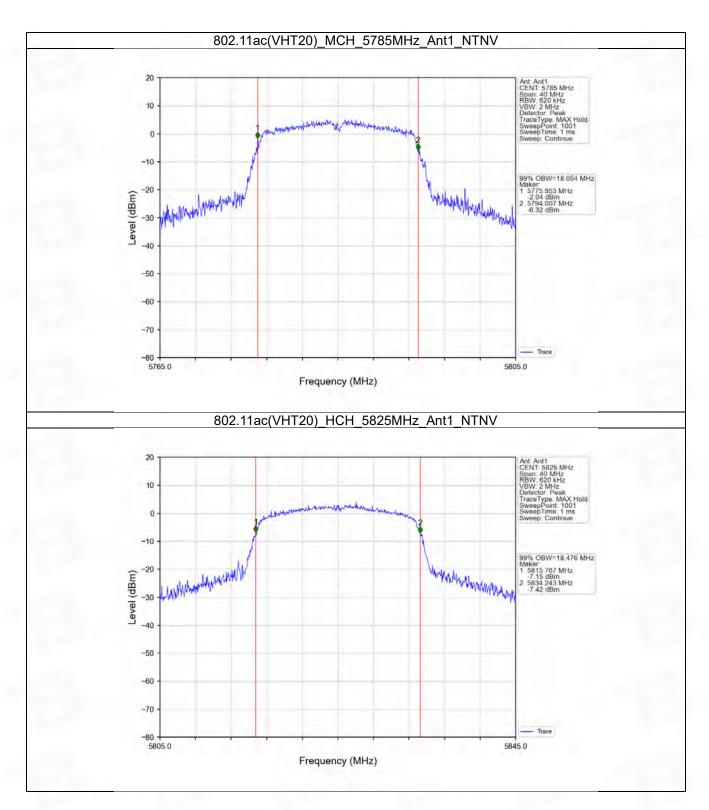




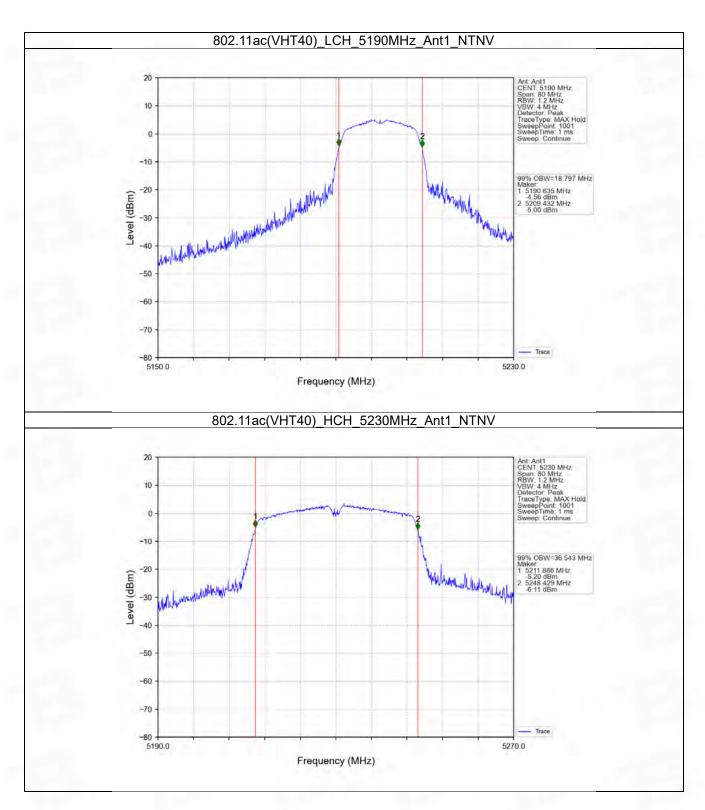




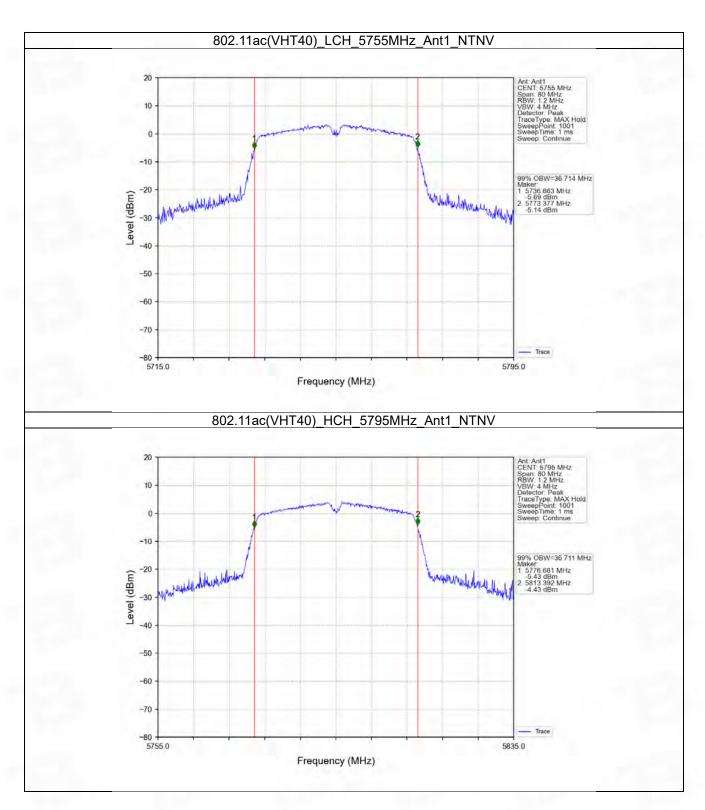




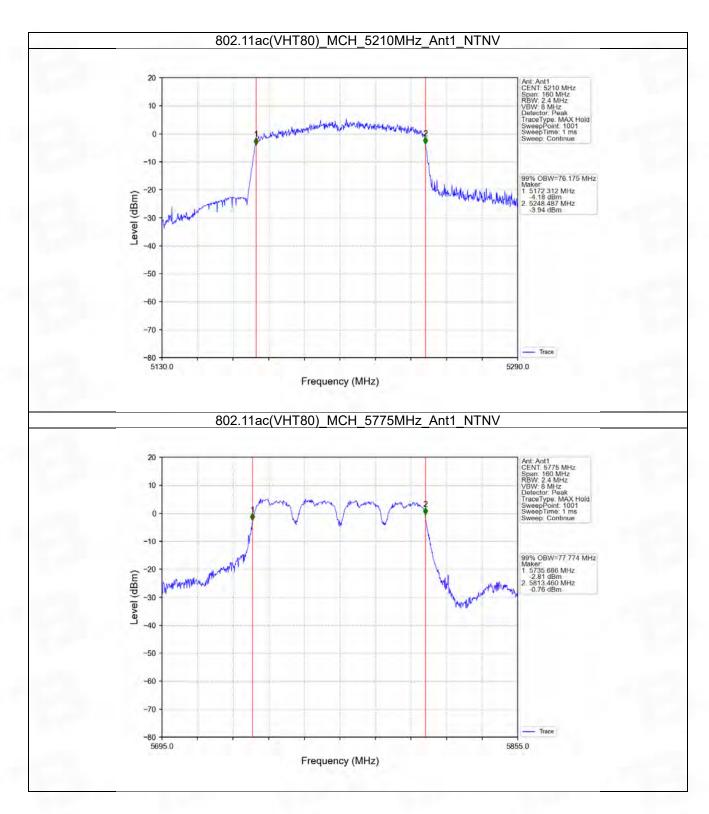


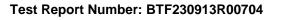














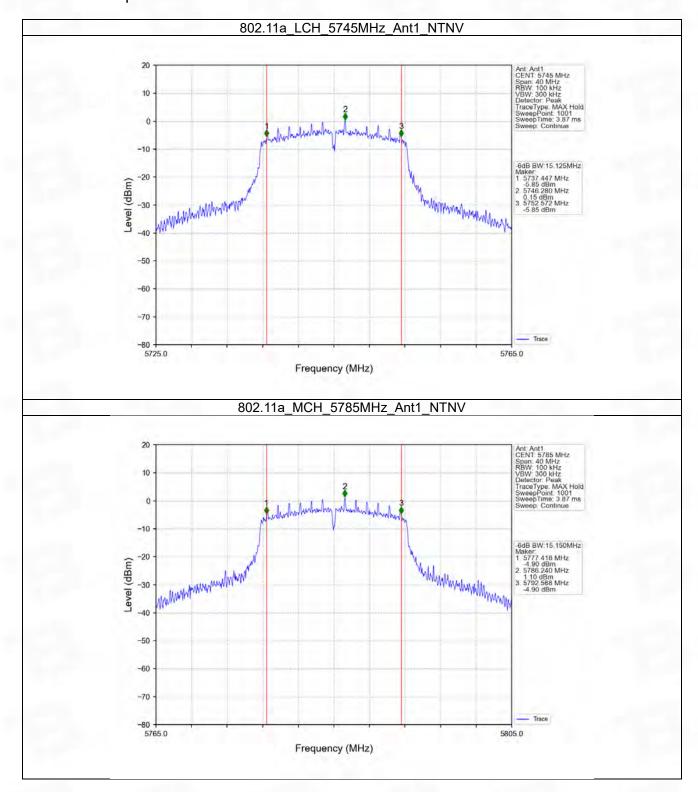
2.2 6dB BW

2.2.1 Test Result

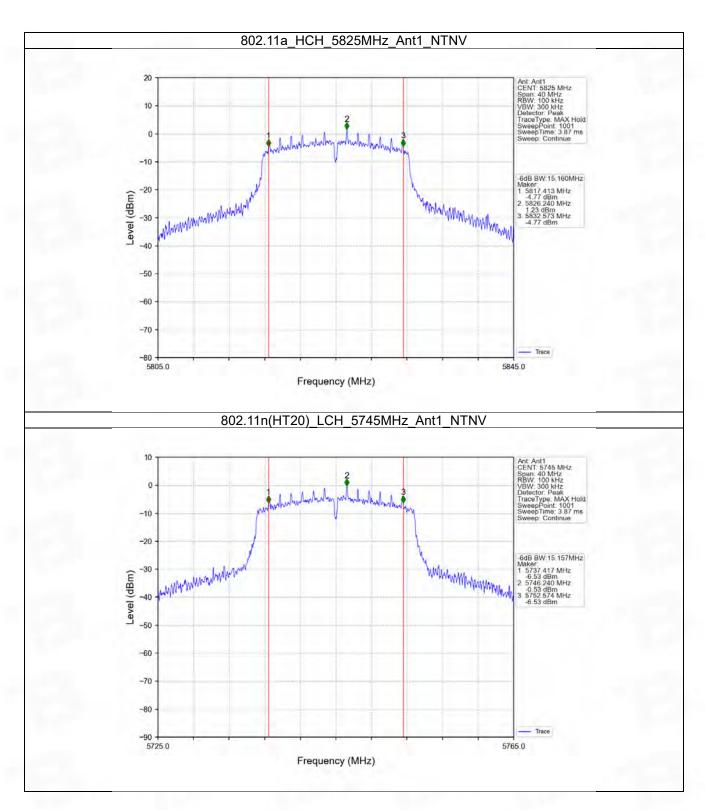
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/ovdiet
				Result	Limit	Verdict
802.11a	SISO	5745	1	15.125	>=0.5	Pass
		5785	1	15.150	>=0.5	Pass
		5825	1	15.160	>=0.5	Pass
902 11p	SISO	5745	1	15.157	>=0.5	Pass
802.11n (HT20)		5785	1	15.159	>=0.5	Pass
(П120)		5825	1	15.162	>=0.5	Pass
802.11n	SISO	5755	1	35.153	>=0.5	Pass
(HT40)	3130	5795	1	35.154	>=0.5	Pass
902 1100	SISO	5745	1	15.161	>=0.5	Pass
802.11ac (VHT20)		5785	1	15.102	>=0.5	Pass
(11120)		5825	1	15.122	>=0.5	Pass
802.11ac	SISO	5755	1	35.155	>=0.5	Pass
(VHT40)		5795	1	35.153	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	76.523	>=0.5	Pass



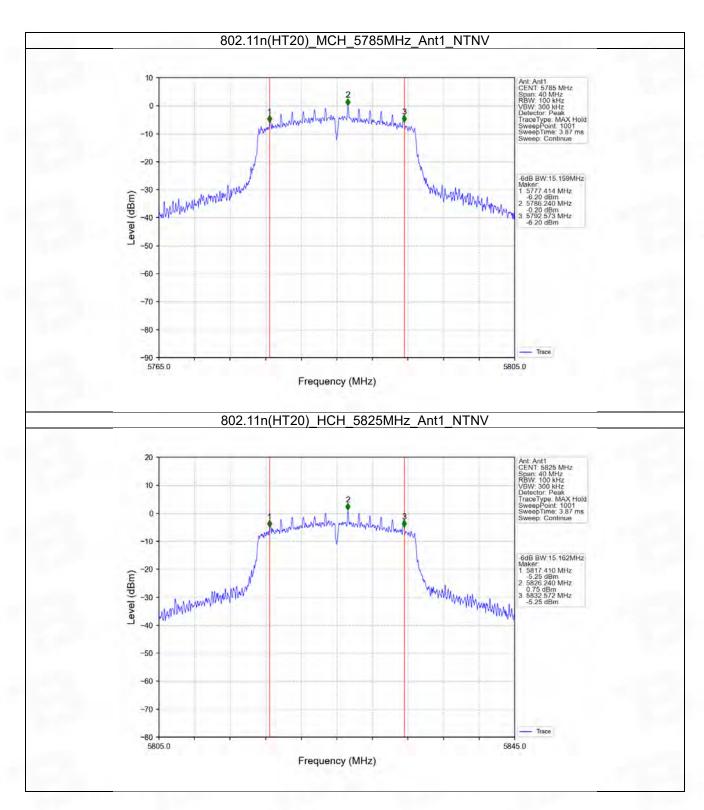
2.2.2 Test Graph



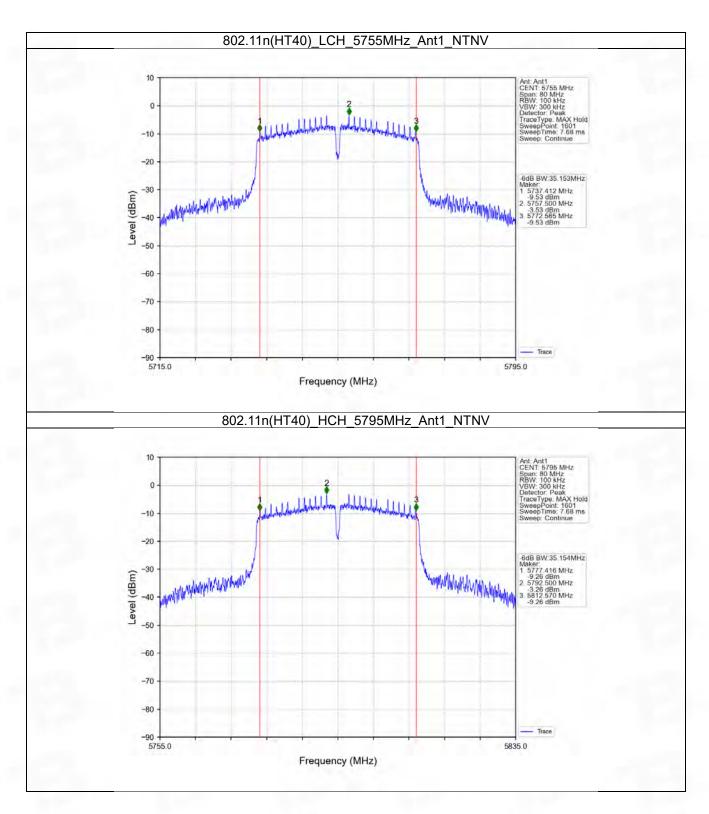




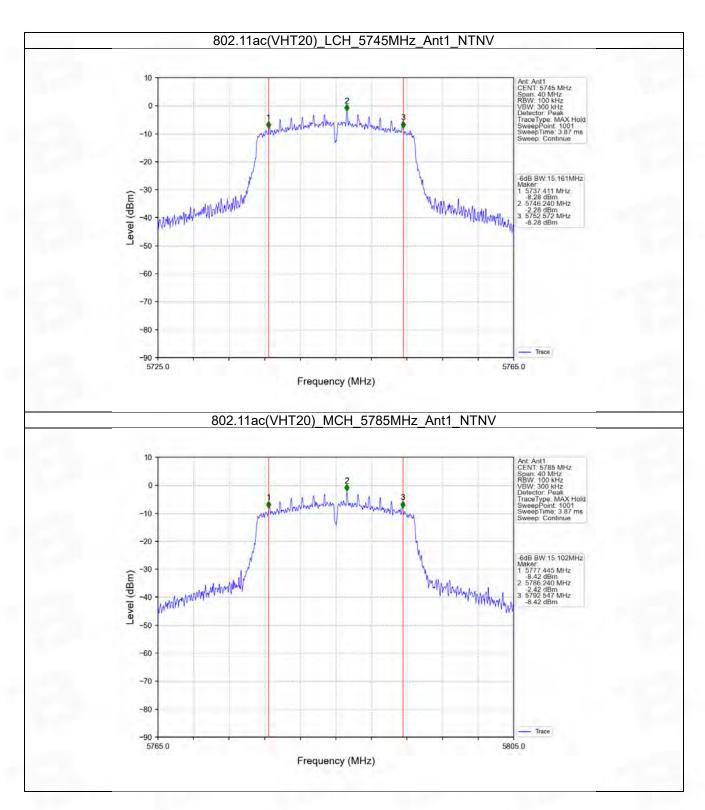




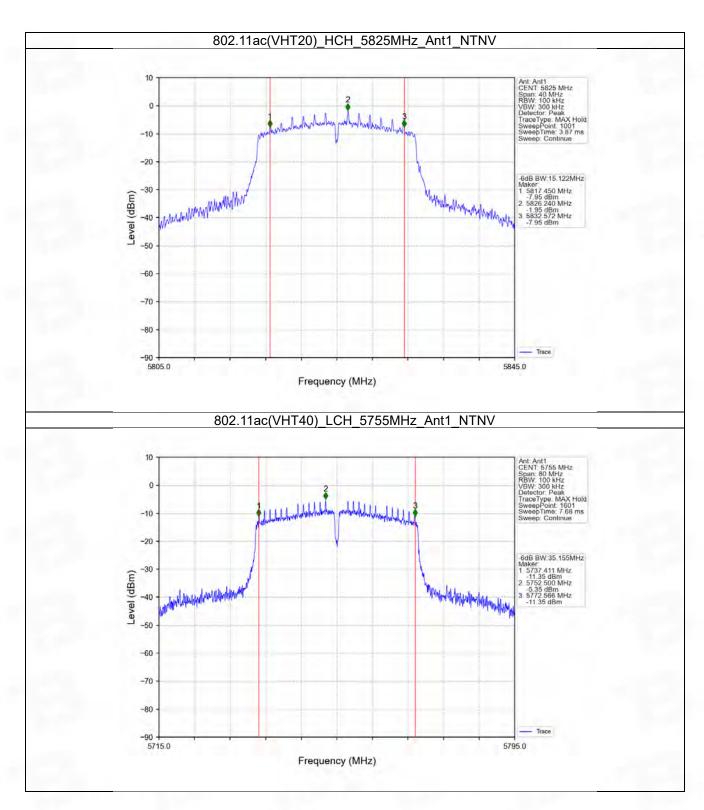




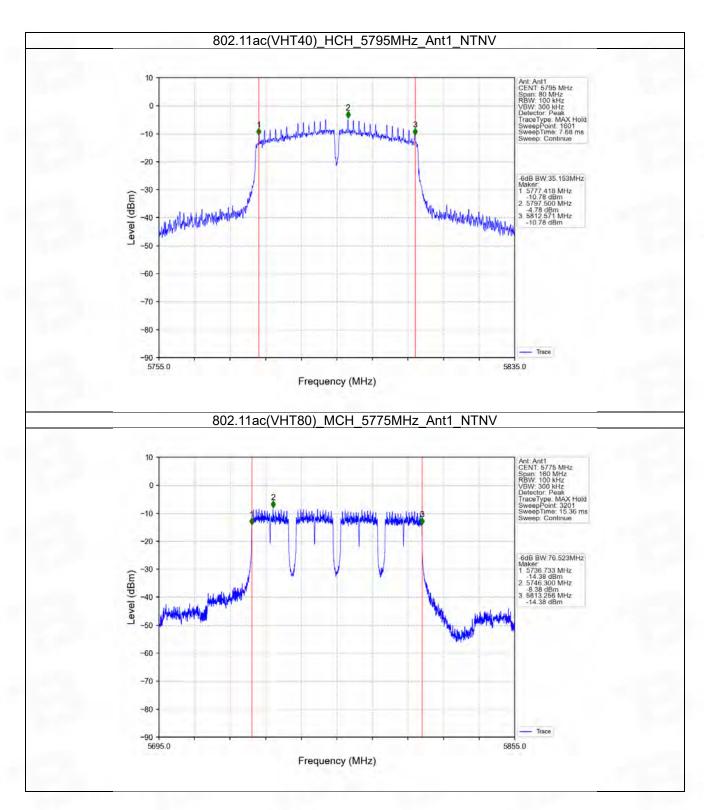


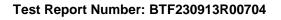














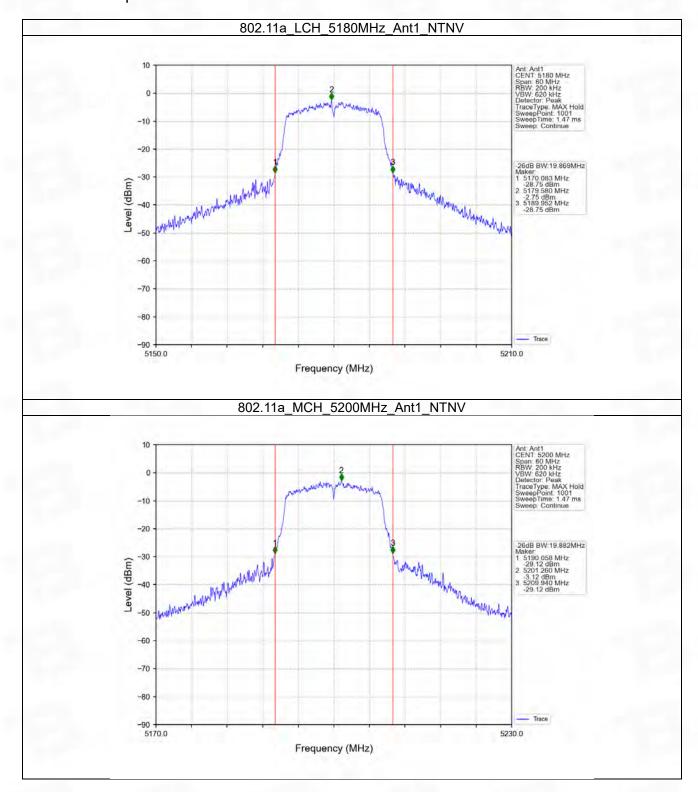
2.3 26dB BW

2.3.1 Test Result

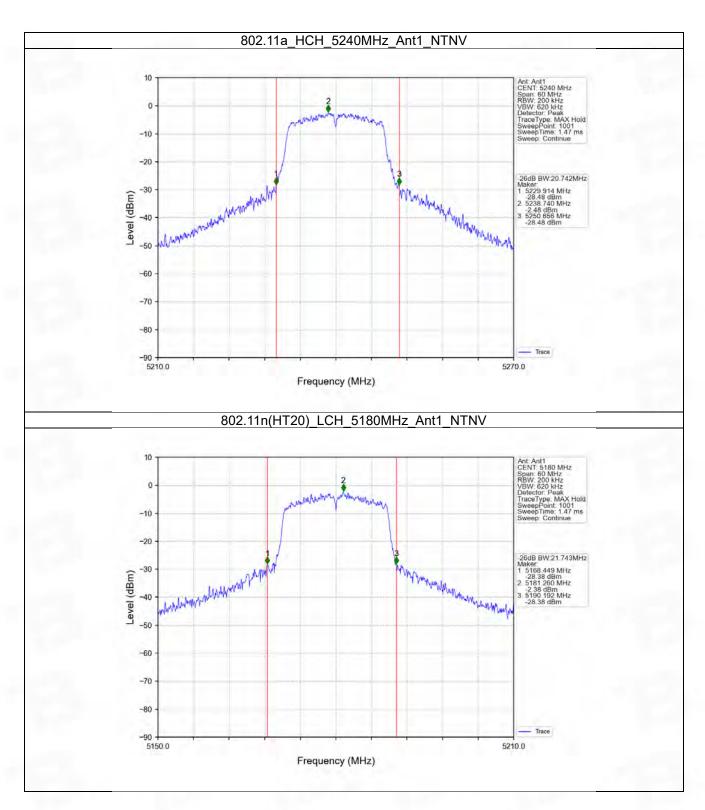
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)) /li 4
				Result	Limit	Verdict
802.11a	SISO	5180	1	19.869	1	Pass
		5200	1	19.882	1	Pass
		5240	1	20.742	1	Pass
000 11-	SISO	5180	1	21.743	1	Pass
802.11n		5200	1	20.371	1	Pass
(HT20)		5240	1	20.749	1	Pass
802.11n	CICO	5190	1	44.770	1	Pass
(HT40)	SISO	5230	1	53.196	1	Pass
000 11	SISO	5180	1	20.176	1	Pass
802.11ac		5200	1	20.119	1	Pass
(VHT20)		5240	1	20.524	1	Pass
802.11ac	SISO	5190	1	24.426	1	Pass
(VHT40)		5230	1	40.561	1	Pass
802.11ac (VHT80)	SISO	5210	1	104.794	1	Pass



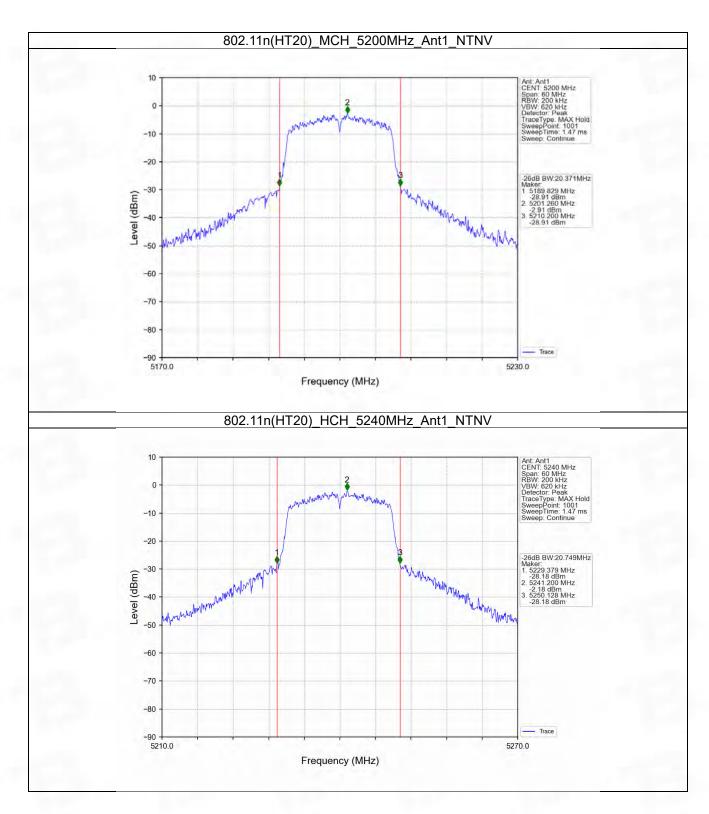
2.3.2 Test Graph



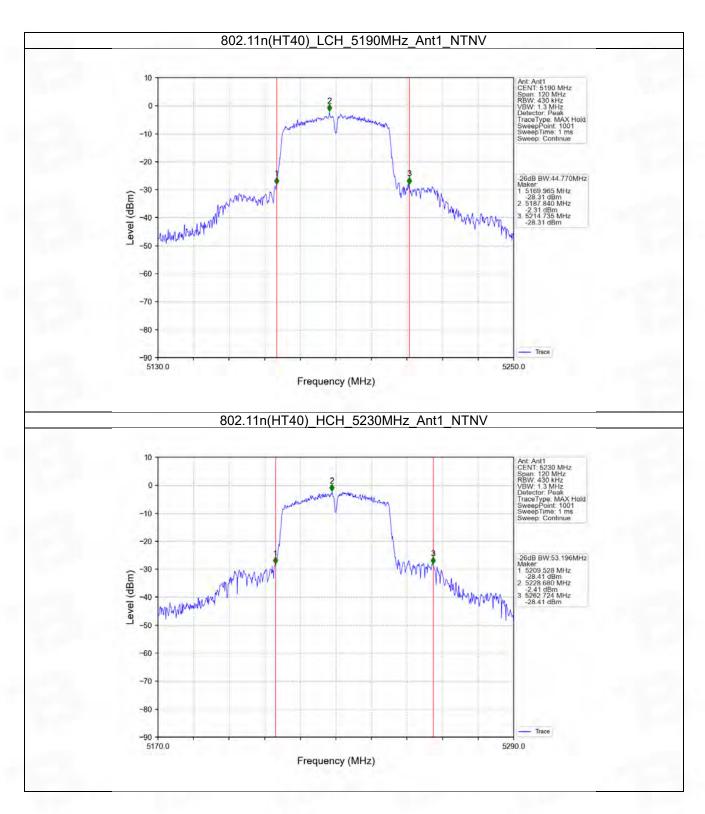




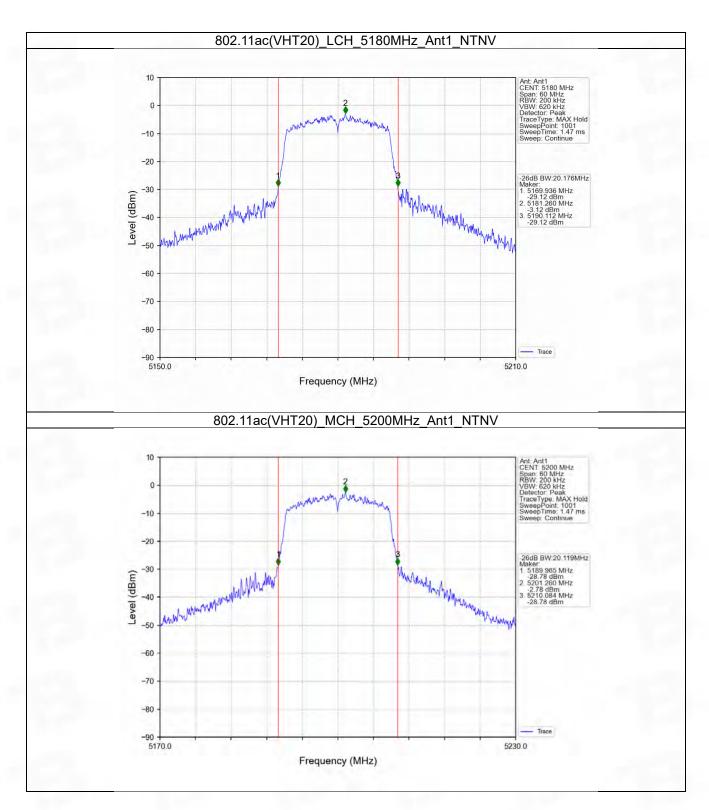




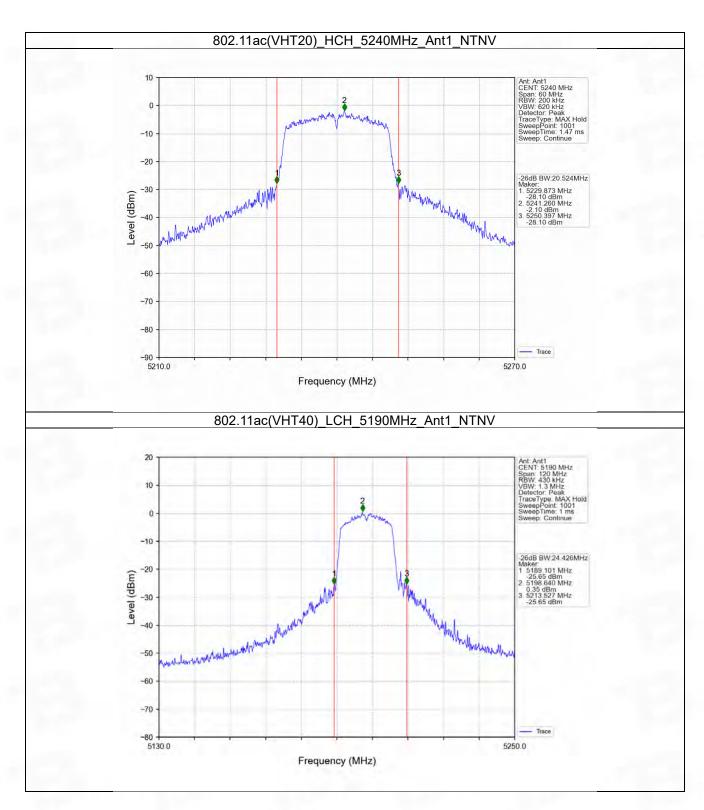




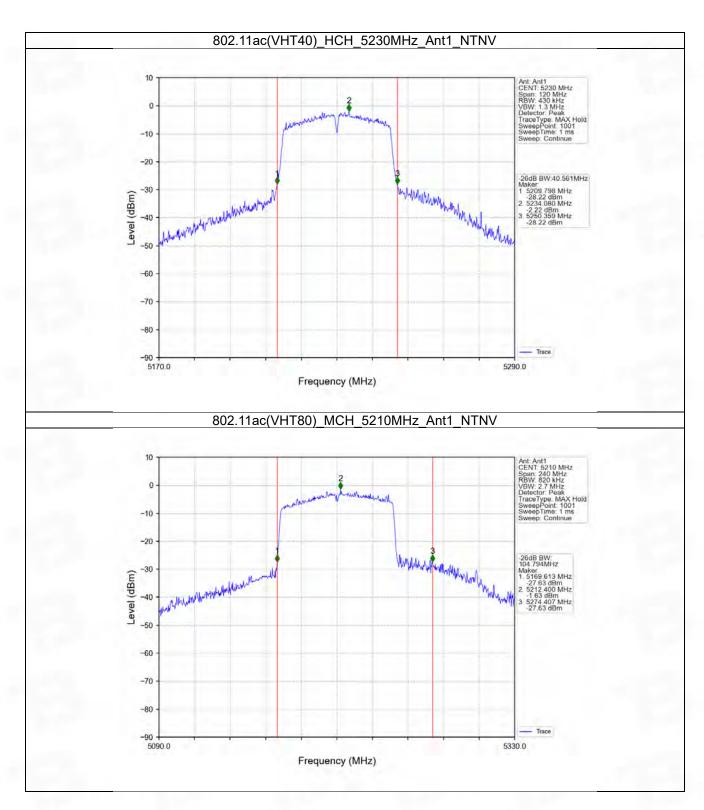


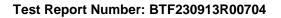














3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Average Condu	\/a malic +	
	Туре	(MHz)	ANT1	Limit	Verdict
802.11a	SISO	5180	6.07	<=23.98	Pass
		5200	6.21	<=23.98	Pass
		5240	7.26	<=23.98	Pass
		5745	9.95	<=30	Pass
		5785	10.69	<=30	Pass
		5825	10.80	<=30	Pass
802.11n (HT20)	SISO	5180	6.76	<=23.98	Pass
		5200	6.16	<=23.98	Pass
		5240	7.11	<=23.98	Pass
		5745	9.10	<=30	Pass
		5785	9.41	<=30	Pass
		5825	10.25	<=30	Pass
802.11n (HT40)	SISO	5190	6.13	<=23.98	Pass
		5230	6.83	<=23.98	Pass
		5755	9.07	<=30	Pass
		5795	9.45	<=30	Pass
	SISO	5180	5.95	<=23.98	Pass
		5200	6.33	<=23.98	Pass
802.11ac (VHT20)		5240	7.12	<=23.98	Pass
		5745	7.41	<=30	Pass
		5785	7.10	<=30	Pass
		5825	7.76	<=30	Pass
802.11ac (VHT40)	SISO	5190	2.97	<=23.98	Pass
		5230	6.79	<=23.98	Pass
		5755	7.23	<=30	Pass
		5795	7.86	<=30	Pass
802.11ac (VHT80)	SISO	5210	6.99	<=23.98	Pass
		5775	8.26	<=30	Pass