

TEST REPORT

Product : EBO CATPAL PRO
Trade mark : Enabot
Model/Type reference : EBO CATPAL PRO
Serial Number : N/A
Report Number : EED32M00173902
FCC ID : 2AUR8-CATPALPRO
Date of Issue : Jul. 29, 2020
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

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Jul. 29, 2020

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Check No.:3096311993



2 Version

Version No.	Date	Description
00	Jul. 29, 2020	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	ANSI C63.10-2013	PASS
Conducted Output Power and transmit power control mechanism	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1)	ANSI C63.10-2013	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)	ANSI C63.10-2013	PASS
Peak Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5)	ANSI C63.10-2013	PASS
Peak power excursion	47 CFR Part 15 Subpart E Section 15.407 (a)(6)	ANSI C63.10-2013	N/A
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013	PASS
Conducted Band-edge Measurements	47 CFR Part 15 Subpart E Section 15.407(b)(1)to(6)	ANSI C63.10-2013	PASS
Dynamic Frequency Selection	47 CFR Part 15 Subpart E Section 15.407 (h)	KDB905462 D02	N/A
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	N/A
Unwanted Emissions that fall Outside of the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5)	ANSI C63.10-2013	PASS
Unwanted Emissions in the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS
Duty cycle	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1)	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

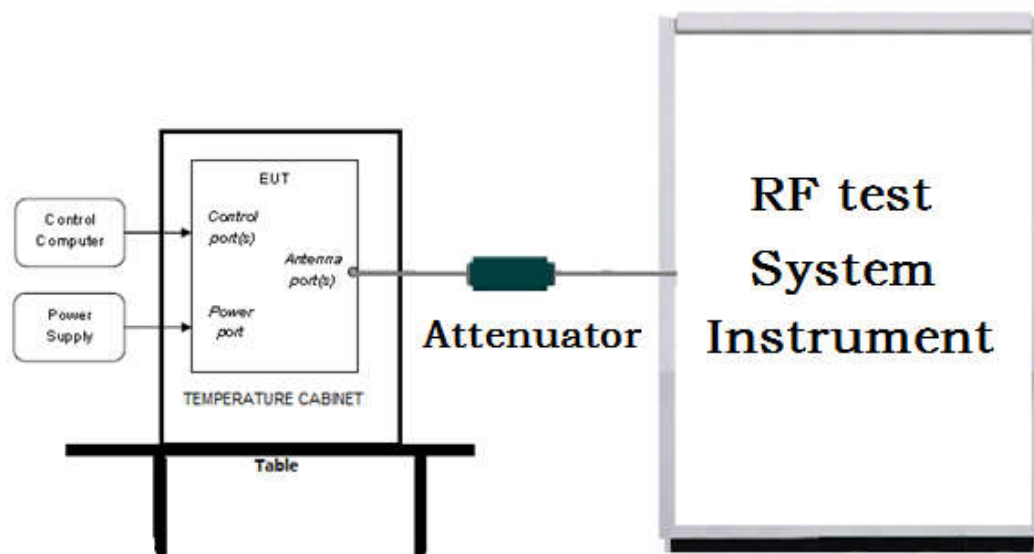
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

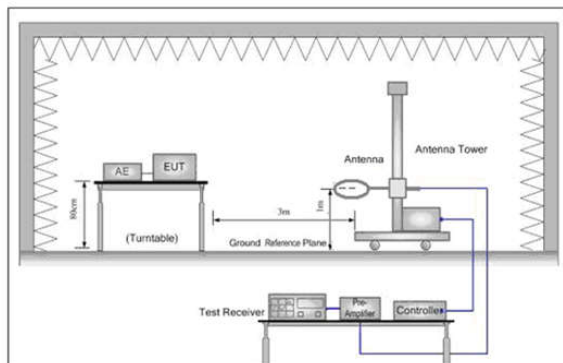


Figure 1. Below 30MHz

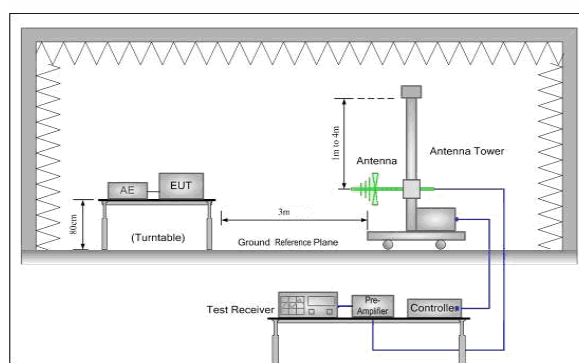


Figure 2. 30MHz to 1GHz

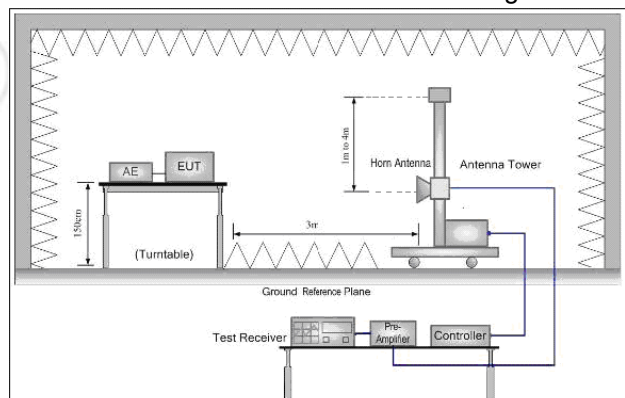
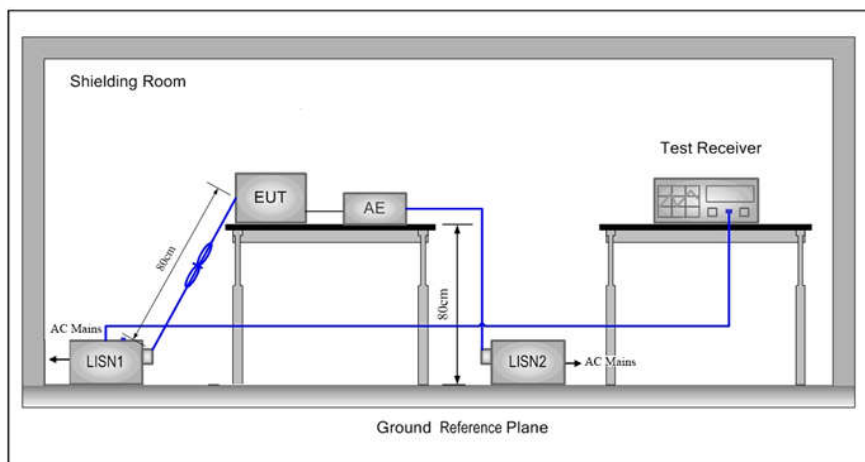


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	23.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(cm)	High(H)
802.11a/n/ac(HT20)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(HT40)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(HT80)	5150MHz ~5250 MHz	Channel 42	N/A	N/A
		5210MHz	N/A	N/A

6 General Information

6.1 Client Information

Applicant:	WeHome Technology Company Limited
Address of Applicant:	Room 12A, Kiu Fu Comm Building, 300 Lockhart Road, Wan Chai, Hong Kong
Manufacturer:	Fuzhi Technology (Shenzhen) Co., Ltd
Address of Manufacturer:	Room 207, 2nd Floor, Building 6, Qianhai Shengang Youth Dreamworks, No.35 Qianwan 1st Road, Qianhai-Hong Kong Cooperation Zone, Shenzhen
Factory:	Dongguan Kaifa Technology Co., Ltd
Address of Factory:	No.2 Junma Road, Chigang Community Humen Town, Dongguan City, Guangdong Province, P.R. China

6.2 General Description of EUT

Product Name:	EBO CATPAL PRO	
Model No.(EUT):	EBO CATPAL PRO	
Trade mark:	Enabot	
EUT Supports Radios application:	U-NII-1: 5.15-5.25GHz	
Power Supply:	AC/DC ADAPTER	MODEL: KA1201A-1201000US INPUT: 100~240V~50/60Hz 0.4A Max OUTPUT: DC12V --- 1000mA
	Battery	SN 832347 7.6V 1100mAh 8.36Wh
Sample Received Date:	Jun. 16, 2020	
Sample tested Date:	Jun. 16, 2020 to Jul. 21, 2020	

6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz IEEE802.11ac(HT80) 5210
Channel Numbers:	IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz / 4 channel IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz/ 2 channel IEEE802.11ac(HT80) 5210 / 1 channel
Type of Modulation:	IEEE for 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Test Power Grade:	Reference Table 1
Test Software of EUT:	CRT
Antenna Type and Gain:	Type:FPC antenna Gain:1.25 dBi
Test Voltage:	Battery 7.6V

Operation Frequency each of channel

For 802.11a/n/ac(HT20) Operation in the 5180 ~ 5240 band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

For 802.11n/ac(HT40) Operation in the5190MHz ~5230MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

For 802.11ac(HT80) Operation in the 5210 MHz band					
Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	N/A	N/A	N/A	N/A

Table 1

Power Setting-1TX							
Mode	Channel	Frequency	Data Rate	Power Setting			
				chain0	chain1	chain2	chain3
IEEE 802.11a	36	5180	6Mbps	44			
	40	5200		44			
	48	5240		44			
IEEE 802.11n 20MHz	36	5180	MCS0	45			
	40	5200		45			
	48	5240		45			
IEEE 802.11n 40MHz	38	5190	MCS0	44			
	46	5230		44			
IEEE 802.11ac 20MHz	36	5180	MCS0	44			
	40	5200		44			
	48	5240		44			
IEEE 802.11ac 40MHz	38	5190	MCS0	44			
	46	5230		44			
IEEE 802.11ac 80MHz	42	5210	MCS0	44			

6.4 Description of Support Units

The EUT has been tested independently

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-26-2019	07-25-2020
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-28-2020	04-27-2021
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021
Barometer	changchun	DYM3	1188	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
3M Chamber & Accessory	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	maturo	NCD/070/107 1112	---	---	---
Temperature/ Humidity Indicator	Shanghai	HM10	1804298	07-26-2019	07-25-2020
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845SE	01-09-2020	01-08-2021
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB789033 D02 General UNII Test Procedures New Rules v01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15 subpart E

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15E Section 15.407 (a)(1)(2)	KDB789033 D02v01	26dB Occupied Bandwidth	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)(4)(h)(1)	KDB789033 D02v01	Conducted Output Power and transmit power control mechanism	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 D02v01	Power Spectral Density	PASS	Appendix C)
Part15E Section 15.407 (a)(6)	KDB789033 D02v01	Peak power excursion	PASS	N/A
47 CFR Part 15 Subpart E Section 15.407(b)(1)to(6)	ANSI C63.10	Band Edge Measurements	PASS	Appendix D)
Part15E Section 15.407 (g)	KDB789033 D02v01	Frequency stability	PASS	Appendix E)
Part15C Section 15.203	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15E Section 15.407 (c)	Section 15.407	Operation in the absence of information to the transmit	PASS	N/A
Part15E Section 15.407 (b)(6)	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Unwanted Emissions in the Restricted Bands	PASS	Appendix I)
Part15E Section 15.407 (b)(1)(2)(3)(5)	KDB789033 D02v01	Unwanted Emissions that fall Outside of the Restricted Bands	PASS	Appendix J)
47 CFR Part 15 Subpart E Section 15.407 (h)	KDB905462 D02	Dynamic Frequency Selection	PASS	N/A

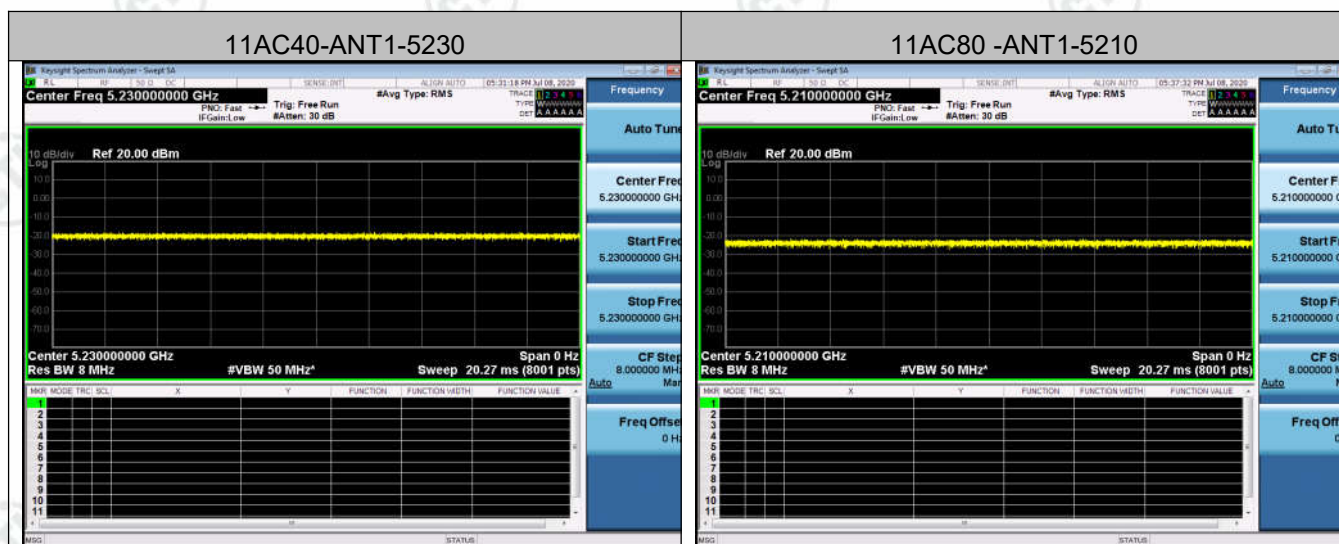
Duty Cycle

ANT1			
Test Mode	Channel	Duty Cycle[%]	Verdict
11A	5180	100	PASS
11A	5200	100	PASS
11A	5240	100	PASS
11N20SISO	5180	100	PASS
11N20SISO	5200	100	PASS
11N20SISO	5240	100	PASS
11N40SISO	5190	100	PASS
11N40SISO	5230	100	PASS
11AC20SISO	5180	100	PASS
11AC20SISO	5200	100	PASS
11AC20SISO	5240	100	PASS
11AC40SISO	5190	100	PASS
11AC40SISO	5230	100	PASS
11AC80SISO	5210	100	PASS

Duty Cycle Test Graph



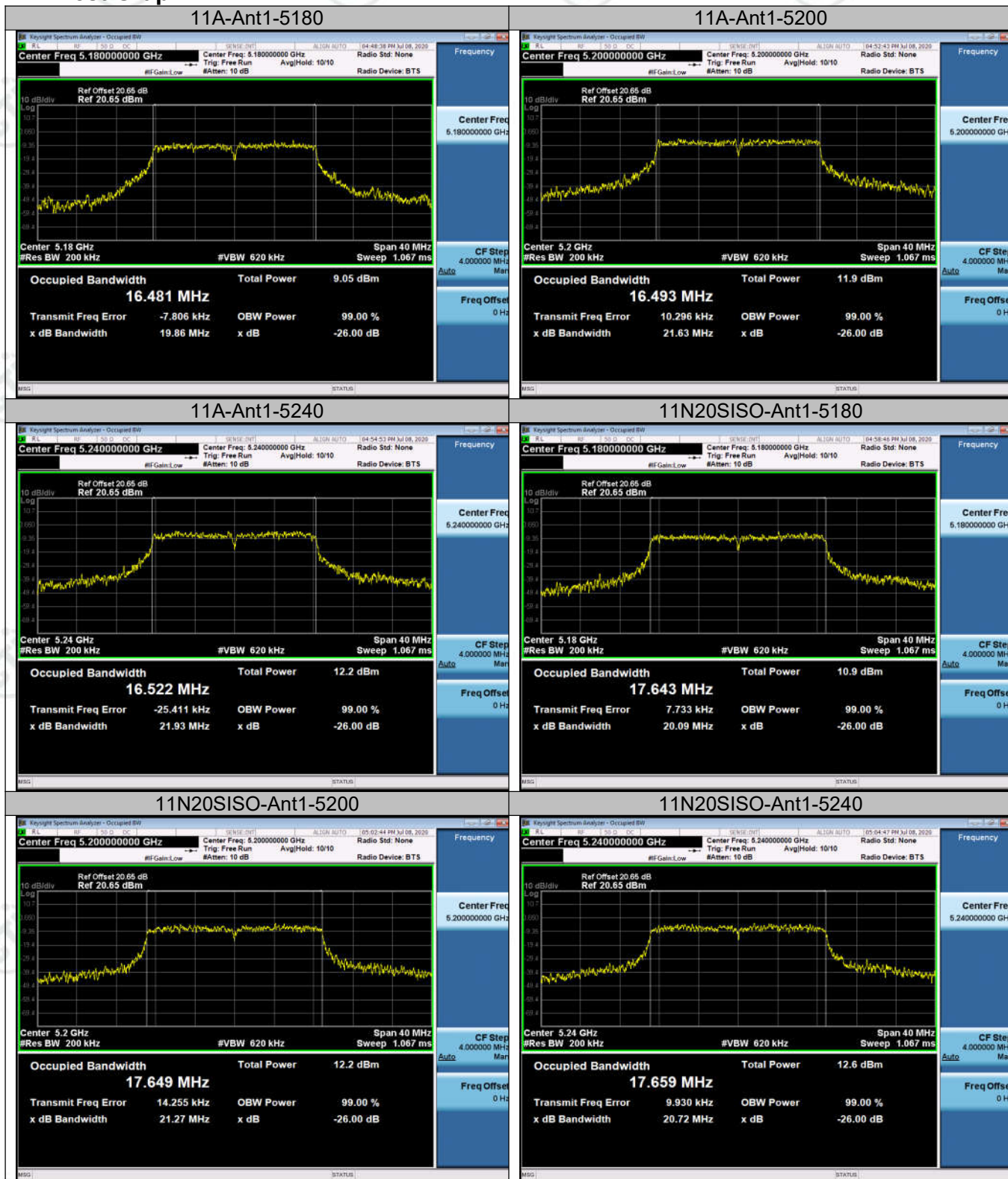


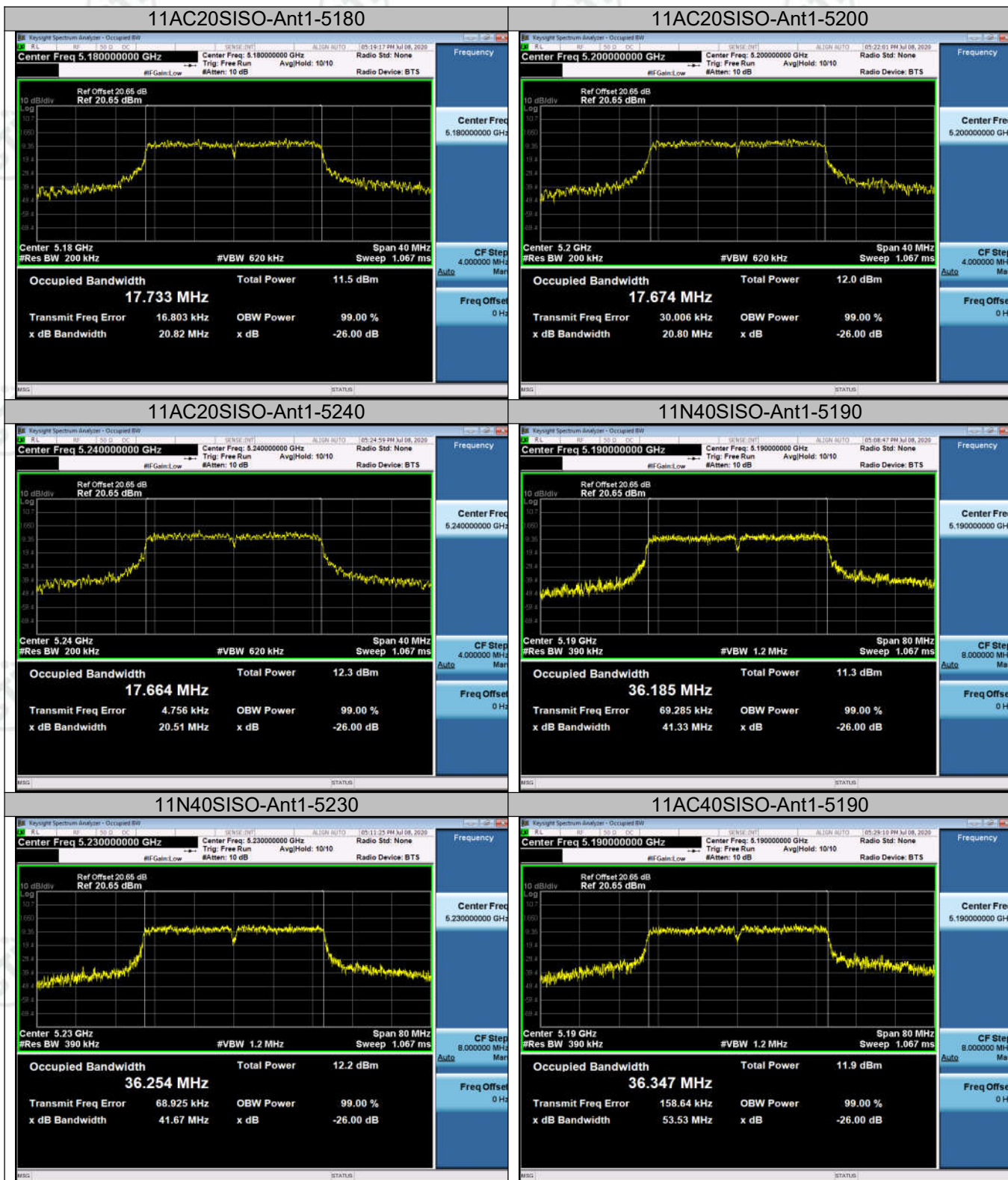


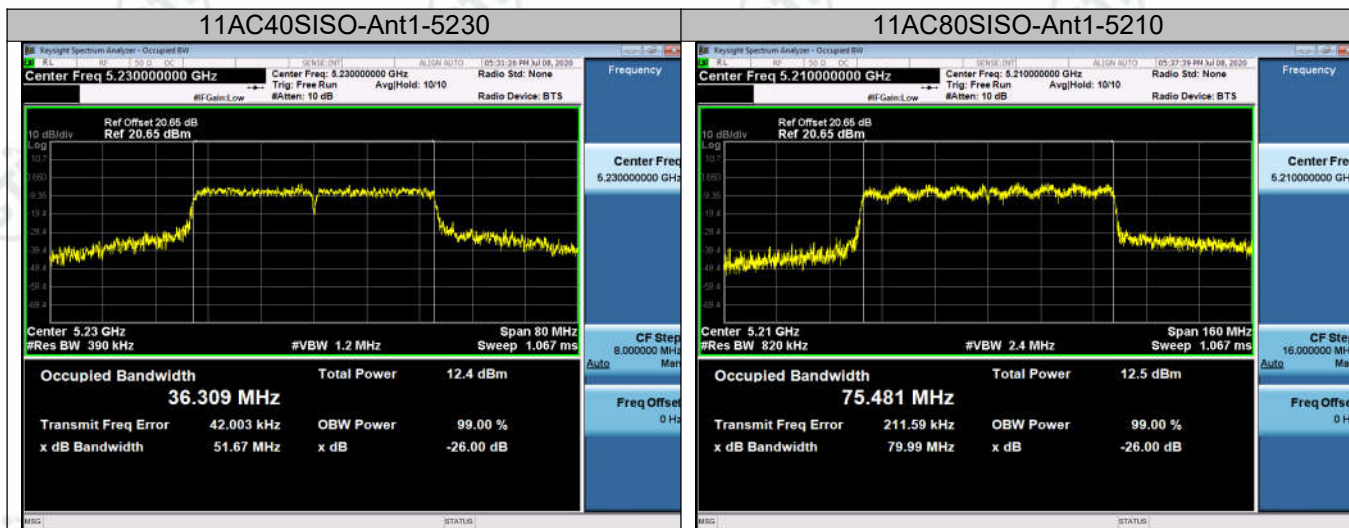
Appendix A): Emission Bandwidth Result Table

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	19.86	16.481	PASS
11A	Ant1	5200	21.63	16.493	PASS
11A	Ant1	5240	21.93	16.522	PASS
11N20SISO	Ant1	5180	20.09	17.643	PASS
11N20SISO	Ant1	5200	21.27	17.649	PASS
11N20SISO	Ant1	5240	20.72	17.659	PASS
11AC20SISO	Ant1	5180	20.82	17.733	PASS
11AC20SISO	Ant1	5200	20.80	17.674	PASS
11AC20SISO	Ant1	5240	20.51	17.664	PASS
11N40SISO	Ant1	5190	41.33	36.185	PASS
11N40SISO	Ant1	5230	41.67	36.254	PASS
11AC40SISO	Ant1	5190	53.53	36.347	PASS
11AC40SISO	Ant1	5230	51.67	36.309	PASS
11AC80SISO	Ant1	5210	79.99	75.481	PASS

Test Graph







Appendix B): Maximum Conduct Output Power

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant1	5180	7.09	7.09	PASS
11A	Ant1	5200	7.36	7.36	PASS
11A	Ant1	5240	7.29	7.29	PASS
11N20SISO	Ant1	5180	6.63	6.63	PASS
11N20SISO	Ant1	5200	7.56	7.56	PASS
11N20SISO	Ant1	5240	7.45	7.45	PASS
11AC20SISO	Ant1	5180	6.91	6.91	PASS
11AC20SISO	Ant1	5200	7.24	7.24	PASS
11AC20SISO	Ant1	5240	7.54	7.54	PASS
11N40SISO	Ant1	5190	6.5	6.5	PASS
11N40SISO	Ant1	5230	7.32	7.32	PASS
11AC40SISO	Ant1	5190	6.46	6.46	PASS
11AC40SISO	Ant1	5230	7.15	7.15	PASS
11AC80SISO	Ant1	5210	7.15	7.15	PASS

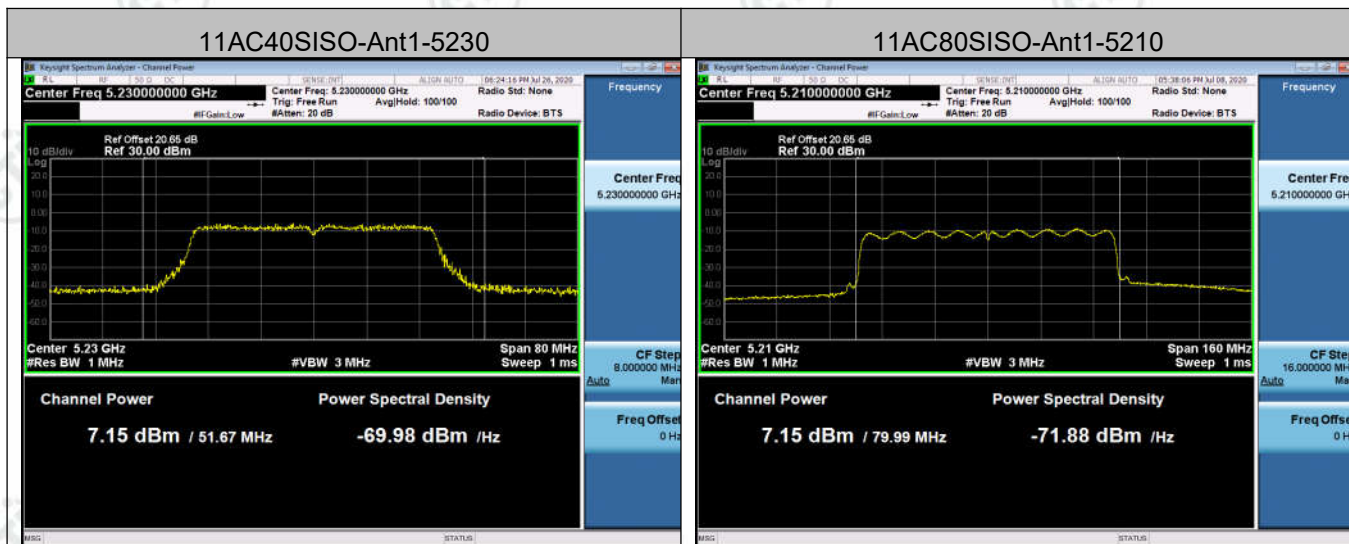
Remark: Duty Factor(dB) = $10 * \log(1/\text{Duty Cycle})$

Av. Power(dBm) = Meas. Level(dBm) + Duty Factor(dB)

Test Graph







Appendix C): Power Spectral Density

Result Table

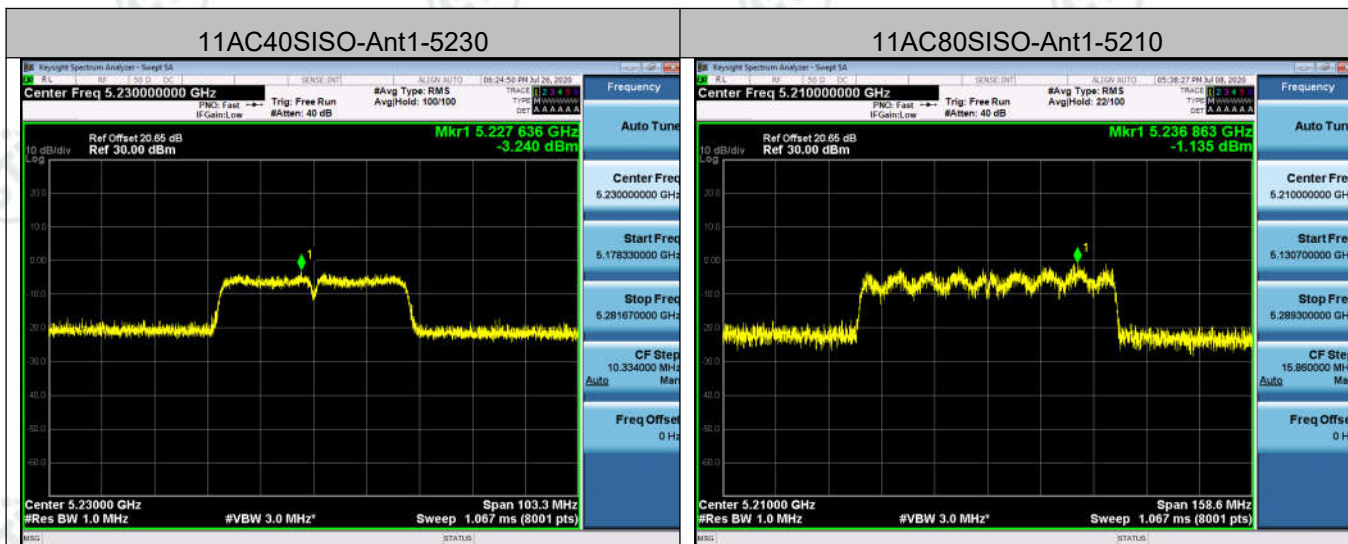
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	0.53	0.53	PASS
11A	Ant1	5200	0.51	0.51	PASS
11A	Ant1	5240	-0.18	-0.18	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	-0.32	-0.32	PASS
11N20SISO	Ant1	5200	0.09	0.09	PASS
11N20SISO	Ant1	5240	0.02	0.02	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	-3.60	-3.60	PASS
11N40SISO	Ant1	5230	-3.12	-3.12	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	-0.62	-0.62	PASS
11AC20SISO	Ant1	5200	-0.06	-0.06	PASS
11AC20SISO	Ant1	5240	0.38	0.38	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	-3.56	-3.56	PASS
11AC40SISO	Ant1	5230	-3.24	-3.24	PASS
11AC80SISO	Ant1	5210	-1.14	-1.14	PASS

Test Graph



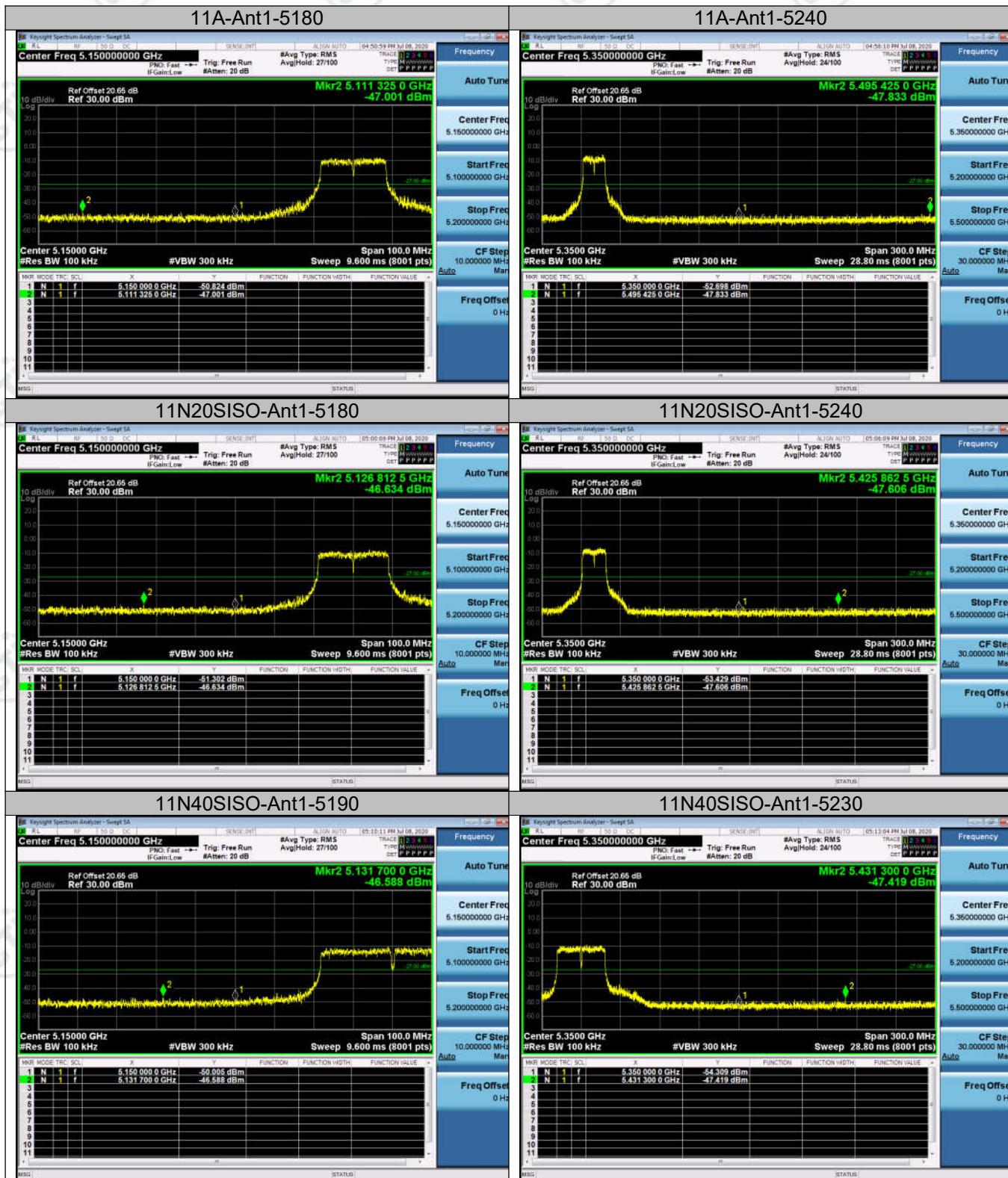


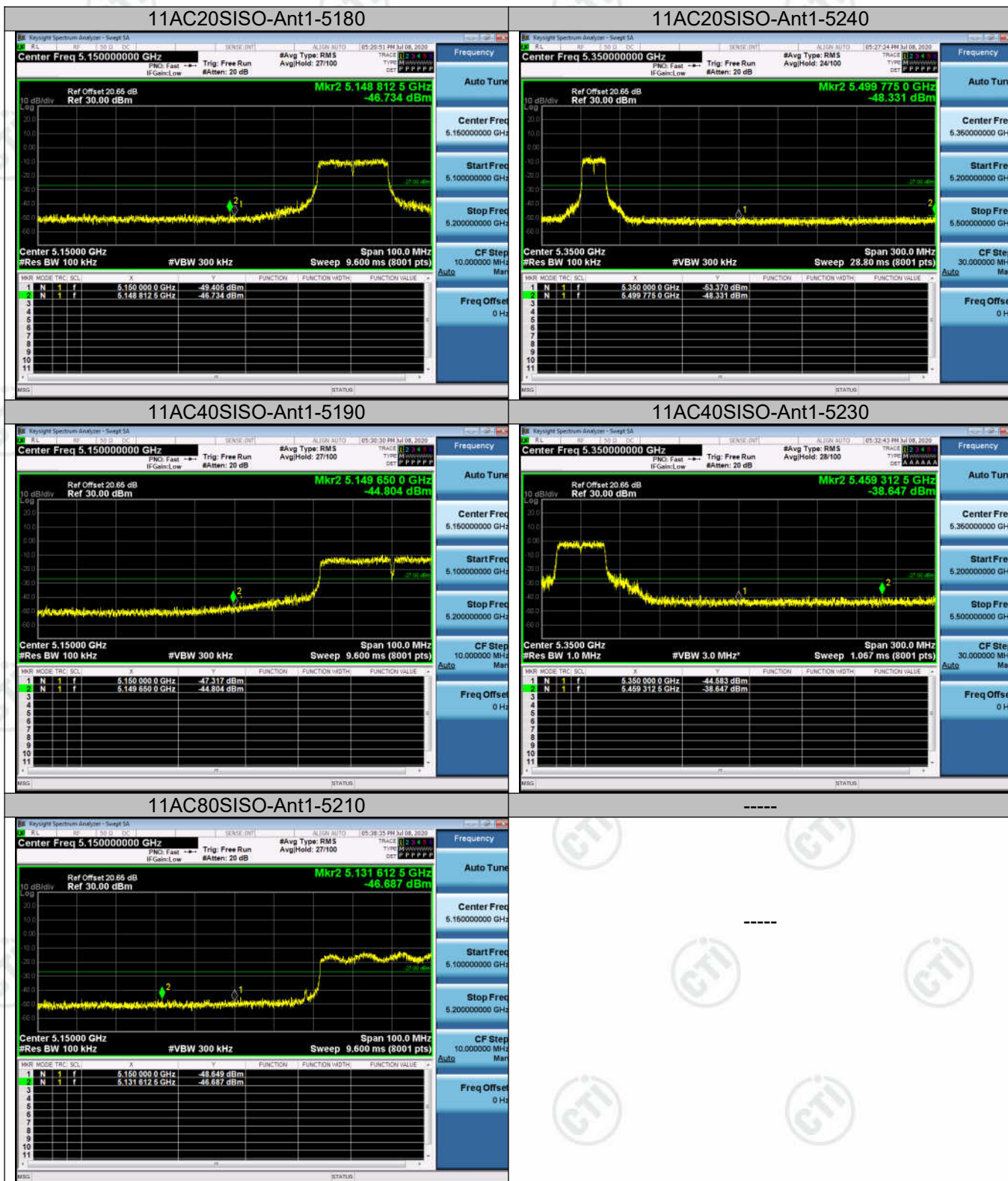


Appendix D): Band Edge Measurements Result Table

Test Mode	Antenna	Channel	Max.Level [dBm]	Verdict
11A	Ant1	5180	-47.001	PASS
11A	Ant1	5240	-47.833	PASS
11N20SISO	Ant1	5180	-46.634	PASS
11N20SISO	Ant1	5240	-47.606	PASS
11N40SISO	Ant1	5190	-50.005	PASS
11N40SISO	Ant1	5230	-54.309	PASS
11AC20SISO	Ant1	5180	-46.734	PASS
11AC20SISO	Ant1	5240	-48.331	PASS
11AC40SISO	Ant1	5190	-47.317	PASS
11AC40SISO	Ant1	5230	-44.583	PASS
11AC80SISO	Ant1	5210	-48.649	PASS

Test Graph





Appendix E): Frequency Stability

Frequency Error vs. Voltage:

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	TN	VL	5180.075	14.478764	PASS
			TN	VN	5180.015	2.895753	PASS
			TN	VH	5180.015	2.895753	PASS
11A	Ant1	5200	TN	VL	5199.985	-2.884615	PASS
			TN	VN	5199.94	-11.538462	PASS
			TN	VH	5199.97	-5.769231	PASS
11A	Ant1	5240	TN	VL	5239.94	-11.450382	PASS
			TN	VN	5239.97	-5.725191	PASS
			TN	VH	5239.985	-2.862595	PASS
11N20	Ant1	5180	TN	VL	5179.985	-2.895753	PASS
			TN	VN	5180.03	5.791506	PASS
			TN	VH	5180.045	8.687259	PASS
11N20	Ant1	5200	TN	VL	5199.985	-2.884615	PASS
			TN	VN	5200.015	2.884615	PASS
			TN	VH	5200.03	5.769231	PASS
11N20	Ant1	5240	TN	VL	5240.015	2.862595	PASS
			TN	VN	5239.97	-5.725191	PASS
			TN	VH	5240.03	5.725191	PASS
11N40	Ant1	5190	TN	VL	5190	0	PASS
			TN	VN	5190.06	11.560694	PASS
			TN	VH	5190.09	17.34104	PASS
11N40	Ant1	5230	TN	VL	5230.09	17.208413	PASS
			TN	VN	5230.03	5.736138	PASS
			TN	VH	5230	0	PASS
11AC20	Ant1	5180	TN	VL	5179.91	-17.374517	PASS
			TN	VN	5180.045	8.687259	PASS
			TN	VH	5180.045	8.687259	PASS
11AC20	Ant1	5200	TN	VL	5199.94	-11.538462	PASS
			TN	VN	5199.97	-5.769231	PASS
			TN	VH	5200	0	PASS
11AC20	Ant1	5240	TN	VL	5239.94	-11.450382	PASS
			TN	VN	5240.075	14.312977	PASS
			TN	VH	5239.985	-2.862595	PASS
11AC40	Ant1	5190	TN	VL	5190.03	5.780347	PASS
			TN	VN	5189.94	-11.560694	PASS
			TN	VH	5189.97	-5.780347	PASS
11AC40	Ant1	5230	TN	VL	5229.97	-5.736138	PASS
			TN	VN	5230.06	11.472275	PASS
			TN	VH	5229.97	-5.736138	PASS
11AC80	Ant1	5210	TN	VL	5210	0	PASS
			TN	VN	5210.08	15.355086	PASS
			TN	VH	5210.08	15.355086	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	40	VN	5180	0	PASS
			30	VN	5180.045	8.687259	PASS
			20	VN	5180.045	8.687259	PASS
			10	VN	5180.045	8.687259	PASS
			0	VN	5180.045	8.687259	PASS
11A	Ant1	5200	40	VN	5199.94	-11.538462	PASS
			30	VN	5199.985	-2.884615	PASS
			20	VN	5200	0	PASS
			10	VN	5200.045	8.653846	PASS
			0	VN	5200.015	2.884615	PASS
11A	Ant1	5240	40	VN	5239.97	-5.725191	PASS
			30	VN	5240.03	5.725191	PASS
			20	VN	5239.94	-11.450382	PASS
			10	VN	5239.955	-8.587786	PASS
			0	VN	5239.97	-5.725191	PASS
11N20	Ant1	5180	40	VN	5179.985	-2.895753	PASS
			30	VN	5180.06	11.583012	PASS
			20	VN	5180.03	5.791506	PASS
			10	VN	5179.955	-8.687259	PASS
			0	VN	5180.015	2.895753	PASS
11N20	Ant1	5200	40	VN	5200	0	PASS
			30	VN	5200.03	5.769231	PASS
			20	VN	5200	0	PASS
			10	VN	5200.045	8.653846	PASS
			0	VN	5200.015	2.884615	PASS
11N20	Ant1	5240	40	VN	5239.985	-2.862595	PASS
			30	VN	5239.955	-8.587786	PASS
			20	VN	5240.015	2.862595	PASS
			10	VN	5239.955	-8.587786	PASS
			0	VN	5239.985	-2.862595	PASS
11N40	Ant1	5190	40	VN	5190.03	5.780347	PASS
			30	VN	5189.94	-11.560694	PASS
			20	VN	5190	0	PASS
			10	VN	5190.06	11.560694	PASS
			0	VN	5190.06	11.560694	PASS
11N40	Ant1	5230	40	VN	5230	0	PASS
			30	VN	5230.03	5.736138	PASS
			20	VN	5230	0	PASS
			10	VN	5229.97	-5.736138	PASS
			0	VN	5230.06	11.472275	PASS

Frequency Error vs. Temperature:

11AC20	Ant1	5180	40	VN	5179.955	-8.687259	PASS
			30	VN	5179.985	-2.895753	PASS

			20	VN	5179.955	-8.687259	PASS
			10	VN	5179.97	-5.791506	PASS
			0	VN	5179.91	-17.374517	PASS
11AC20	Ant1	5200	40	VN	5199.985	-2.884615	PASS
			30	VN	5199.955	-8.653846	PASS
			20	VN	5199.97	-5.769231	PASS
			10	VN	5199.97	-5.769231	PASS
			0	VN	5199.955	-8.653846	PASS
11AC20	Ant1	5240	40	VN	5239.97	-5.725191	PASS
			30	VN	5240.045	8.587786	PASS
			20	VN	5240.045	8.587786	PASS
			10	VN	5239.985	-2.862595	PASS
			0	VN	5240.045	8.587786	PASS
11AC40	Ant1	5190	40	VN	5190.03	5.780347	PASS
			30	VN	5189.97	-5.780347	PASS
			20	VN	5189.97	-5.780347	PASS
			10	VN	5189.91	-17.34104	PASS
			0	VN	5189.97	-5.780347	PASS
11AC40	Ant1	5230	40	VN	5230.03	5.736138	PASS
			30	VN	5230.06	11.472275	PASS
			20	VN	5229.91	-17.208413	PASS
			10	VN	5230	0	PASS
			0	VN	5229.97	-5.736138	PASS
11AC80	Ant1	5210	40	VN	5210	0	PASS
			30	VN	5210.08	15.355086	PASS
			20	VN	5210	0	PASS
			10	VN	5210	0	PASS
			0	VN	5210.08	15.355086	PASS

Appendix F) Antenna Requirement

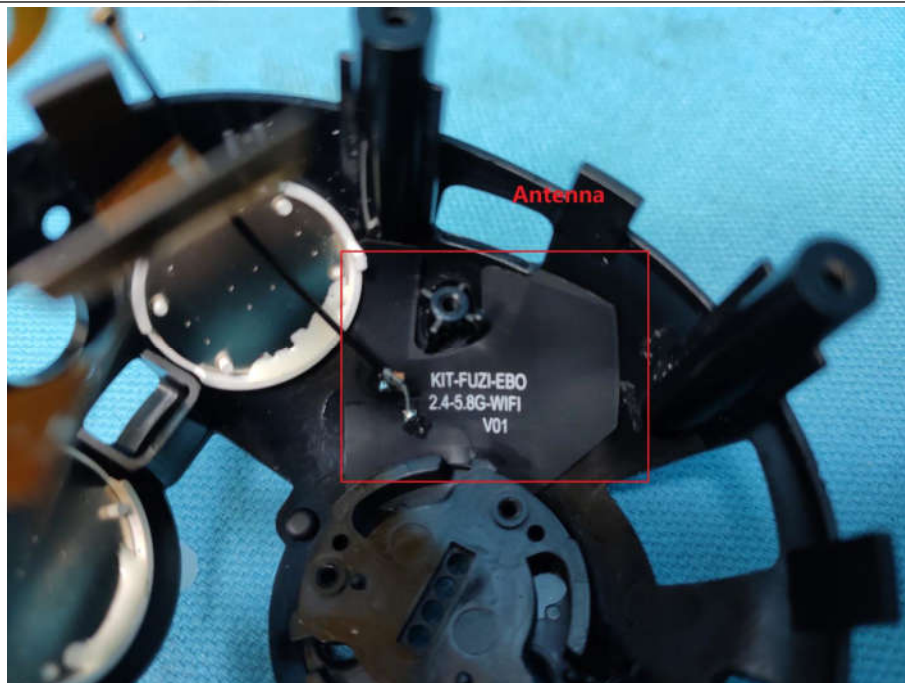
15.203 requirement:

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

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna type is FPC with I-PEX connector, that is a unique connector and compliant with therequirement for 15.203. The best case gain of the antenna is 1.25 dBi.

Appendix G) AC Power Line Conducted Emission

Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency			Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

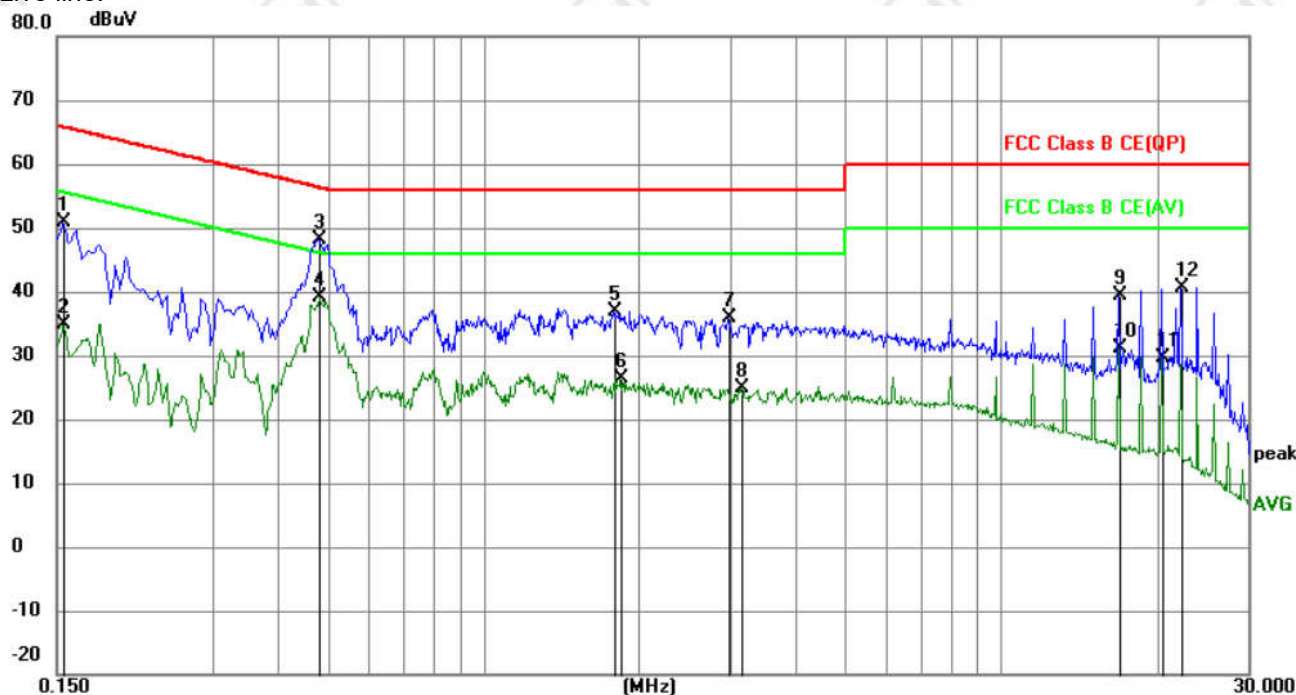
Product : EBO CATPAL PRO

Model/Type reference : EBO CATPAL PRO

Temperature : 23℃

Humidity : 54%

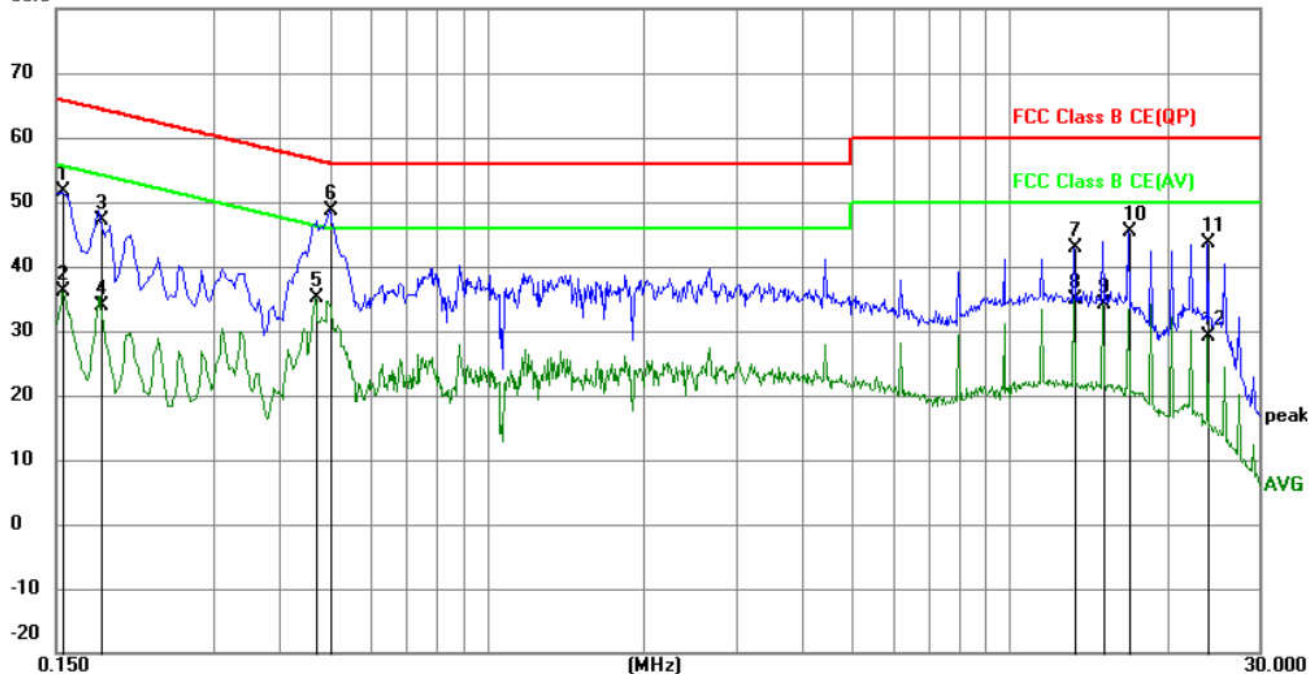
Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	40.97	9.88	50.85	65.75	-14.90	QP	
2		0.1545	25.06	9.88	34.94	55.75	-20.81	AVG	
3		0.4830	38.08	10.02	48.10	56.29	-8.19	QP	
4	*	0.4830	29.22	10.02	39.24	46.29	-7.05	AVG	
5		1.7880	27.18	9.78	36.96	56.00	-19.04	QP	
6		1.8420	16.61	9.78	26.39	46.00	-19.61	AVG	
7		2.9715	26.03	9.78	35.81	56.00	-20.19	QP	
8		3.1560	15.08	9.78	24.86	46.00	-21.14	AVG	
9		16.8675	29.62	9.84	39.46	60.00	-20.54	QP	
10		16.8675	21.34	9.84	31.18	50.00	-18.82	AVG	
11		20.4225	19.85	9.86	29.71	50.00	-20.29	AVG	
12		22.2000	30.80	9.89	40.69	60.00	-19.31	QP	

Neutral line:

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	41.64	9.88	51.52	65.75	-14.23	QP	
2		0.1545	26.16	9.88	36.04	55.75	-19.71	AVG	
3		0.1825	37.20	9.87	47.07	64.37	-17.30	QP	
4		0.1825	24.07	9.87	33.94	54.37	-20.43	AVG	
5		0.4695	25.24	10.00	35.24	46.52	-11.28	AVG	
6	*	0.5010	38.49	10.05	48.54	56.00	-7.46	QP	
7		13.3170	33.16	9.82	42.98	60.00	-17.02	QP	
8		13.3170	25.03	9.82	34.85	50.00	-15.15	AVG	
9		15.0900	24.34	9.83	34.17	50.00	-15.83	AVG	
10		16.8720	35.42	9.84	45.26	60.00	-14.74	QP	
11		23.9730	33.63	9.93	43.56	60.00	-16.44	QP	
12		23.9730	19.23	9.93	29.16	50.00	-20.84	AVG	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

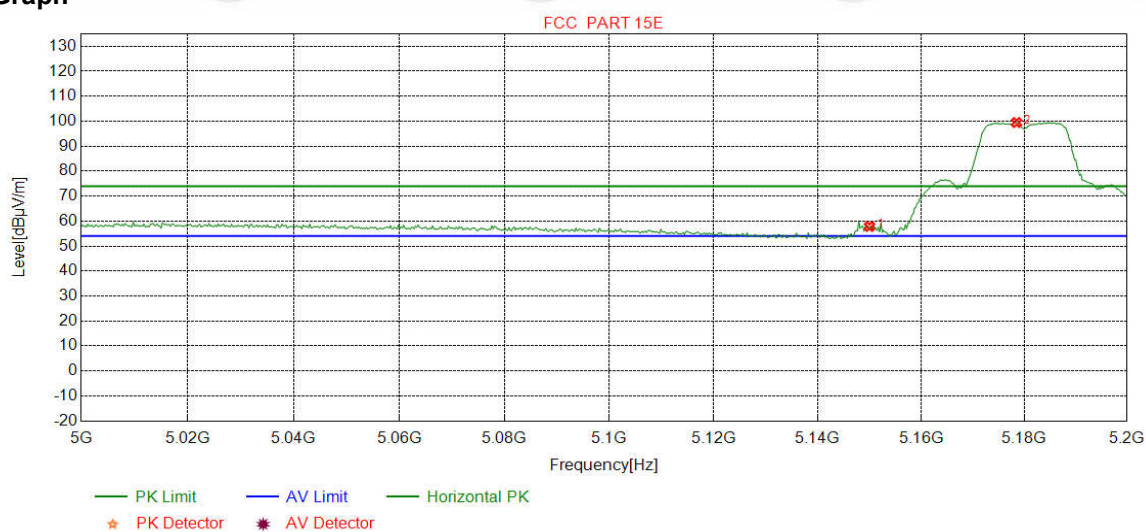
Appendix H) Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - 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. - 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 and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dBμV/m @3cm)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test plot as follows:

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

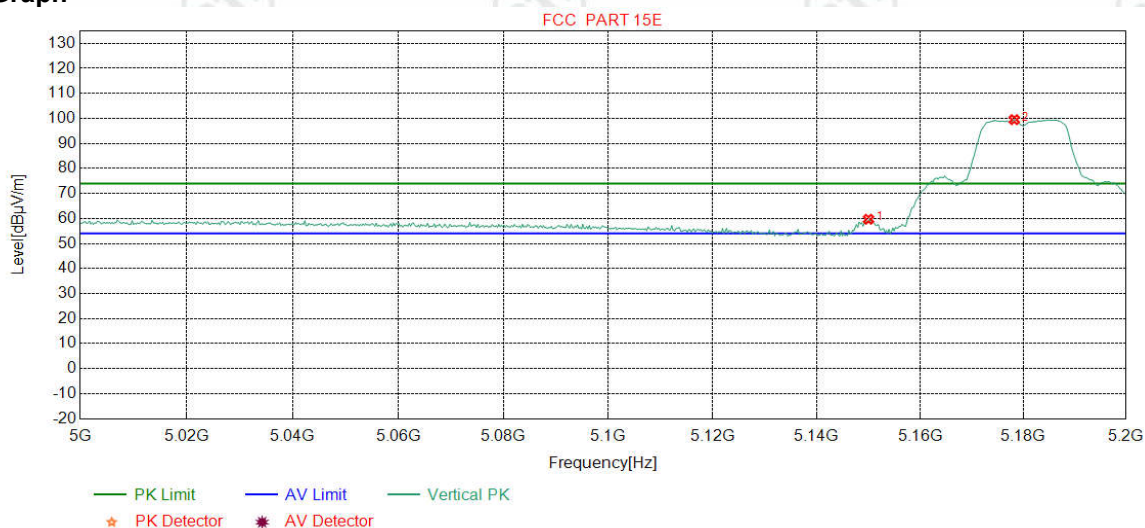
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	50.86	57.85	74.00	16.15	Pass	Horizontal
2	5178.4731	34.68	15.36	-42.73	92.16	99.47	74.00	-25.47	Pass	Horizontal

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

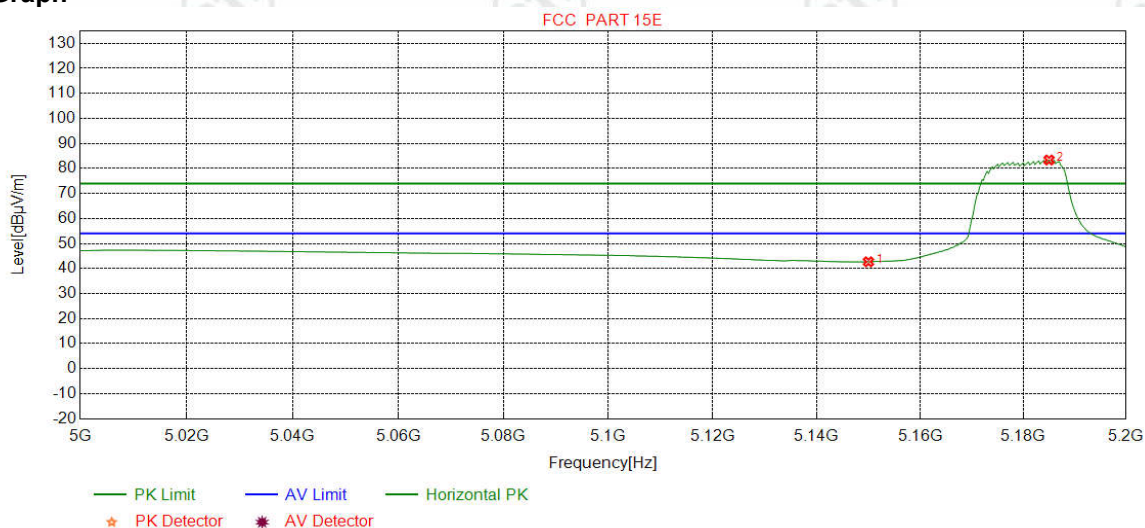
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	52.71	59.70	74.00	14.30	Pass	Vertical
2	5178.2228	34.68	15.36	-42.73	92.20	99.51	74.00	-25.51	Pass	Vertical

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

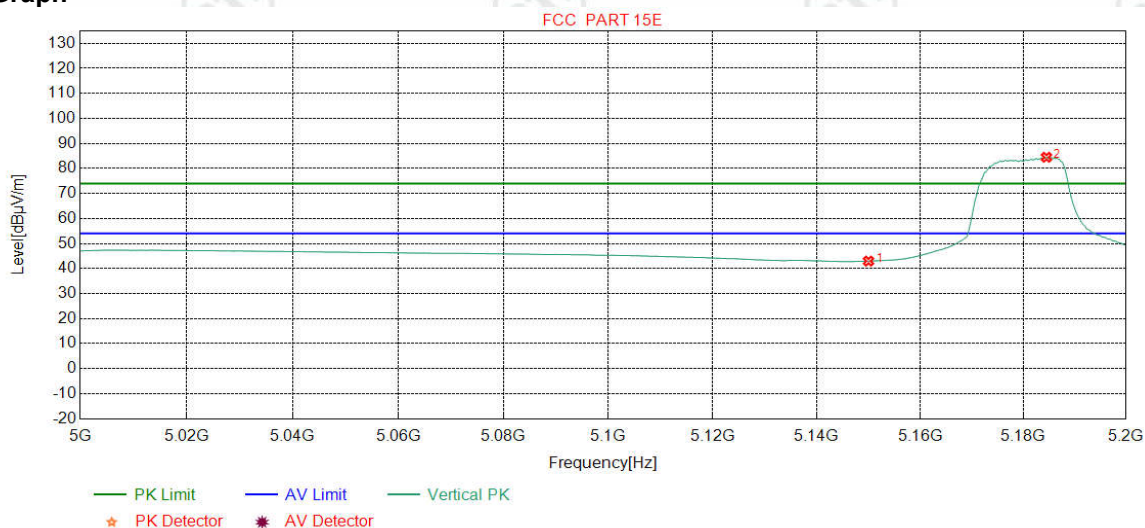
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	35.71	42.70	54.00	11.30	Pass	Horizontal
2	5184.9812	34.68	15.42	-42.72	76.00	83.38	54.00	-29.38	Pass	Horizontal

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

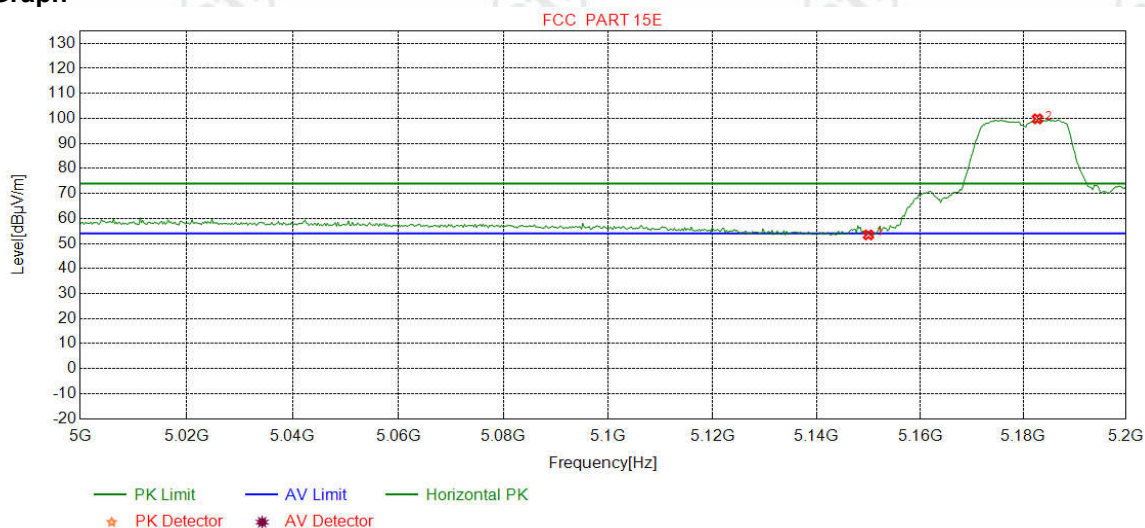
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	35.97	42.96	54.00	11.04	Pass	Vertical
2	5184.4806	34.68	15.42	-42.72	77.09	84.47	54.00	-30.47	Pass	Vertical

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

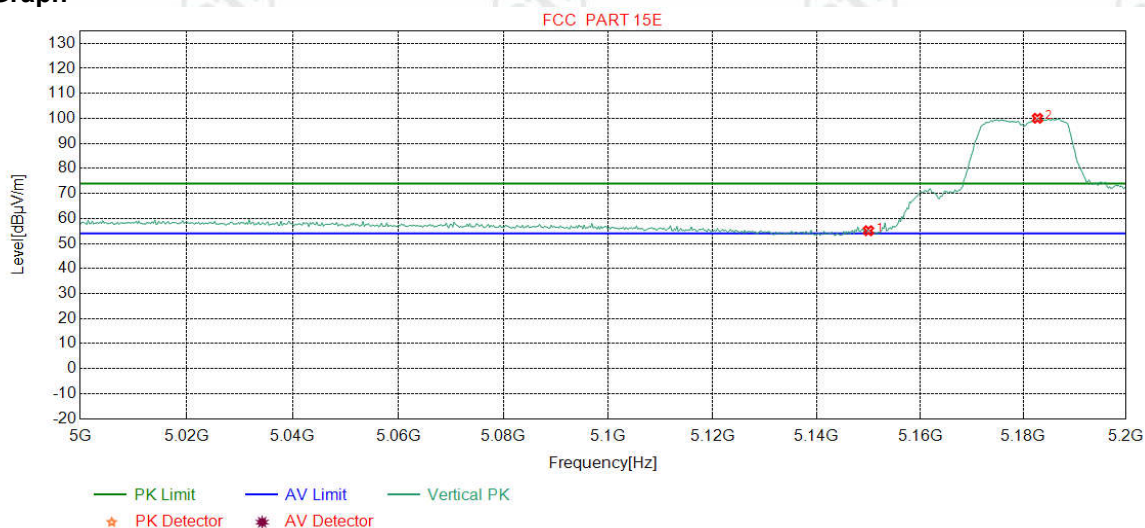
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	46.45	53.44	74.00	20.56	Pass	Horizontal
2	5182.7284	34.68	15.40	-42.72	92.45	99.81	74.00	-25.81	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

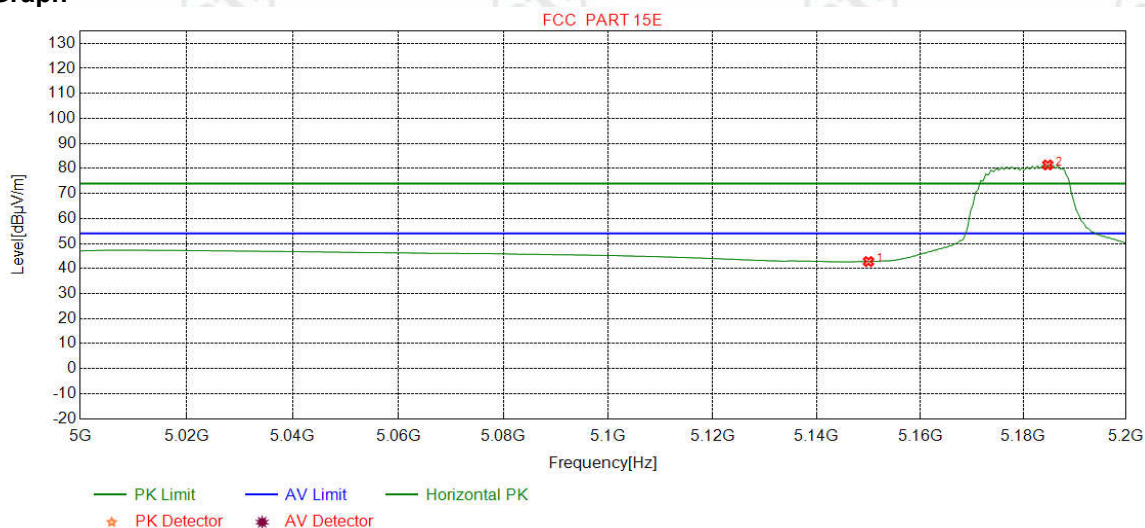
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	48.11	55.10	74.00	18.90	Pass	Vertical
2	5182.7284	34.68	15.40	-42.72	92.69	100.05	74.00	-26.05	Pass	Vertical

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

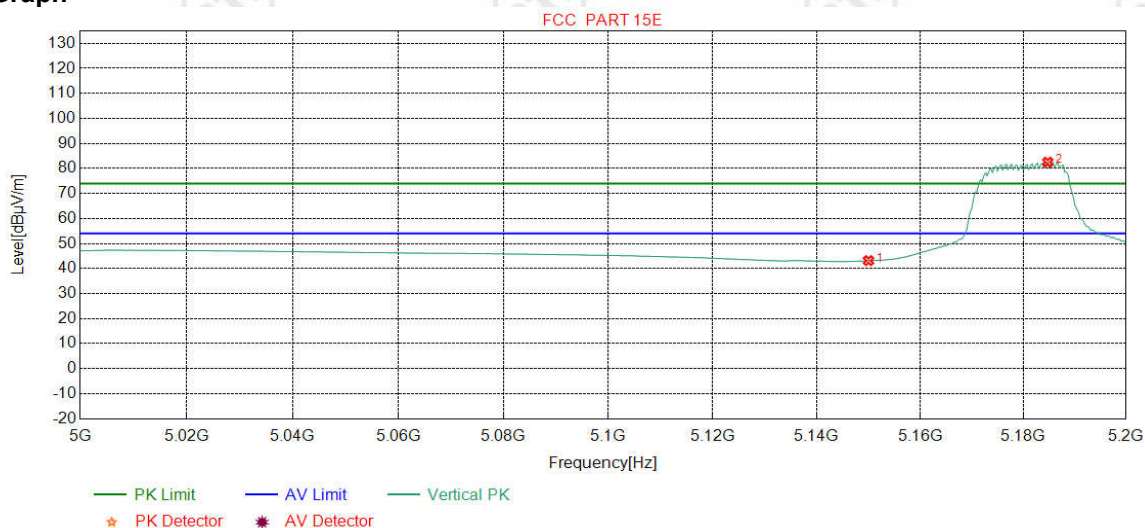
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	35.80	42.79	54.00	11.21	Pass	Horizontal
2	5184.7309	34.68	15.42	-42.72	74.02	81.40	54.00	-27.40	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

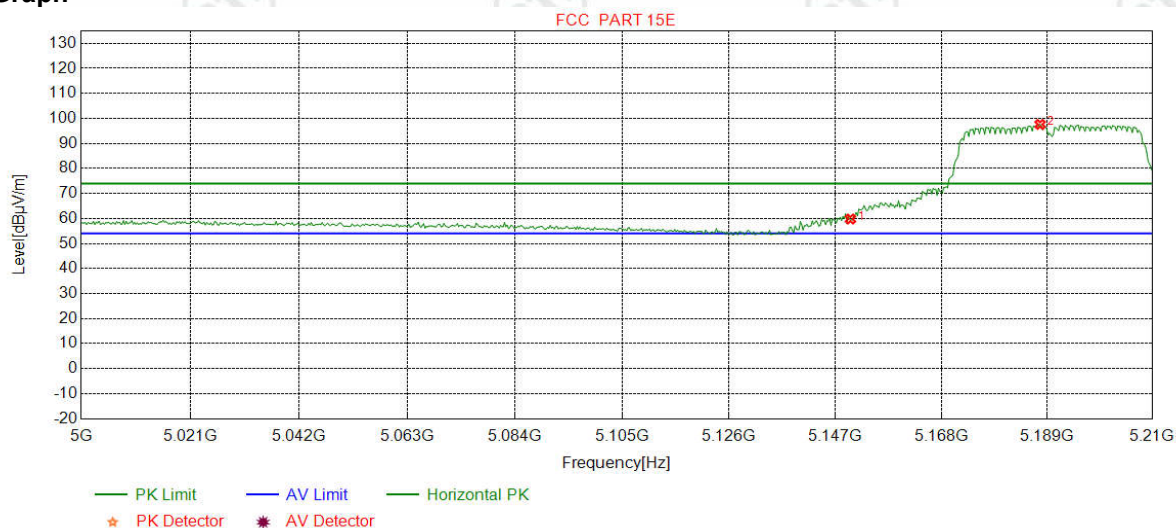
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	36.16	43.15	54.00	10.85	Pass	Vertical
2	5184.7309	34.68	15.42	-42.72	75.14	82.52	54.00	-28.52	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

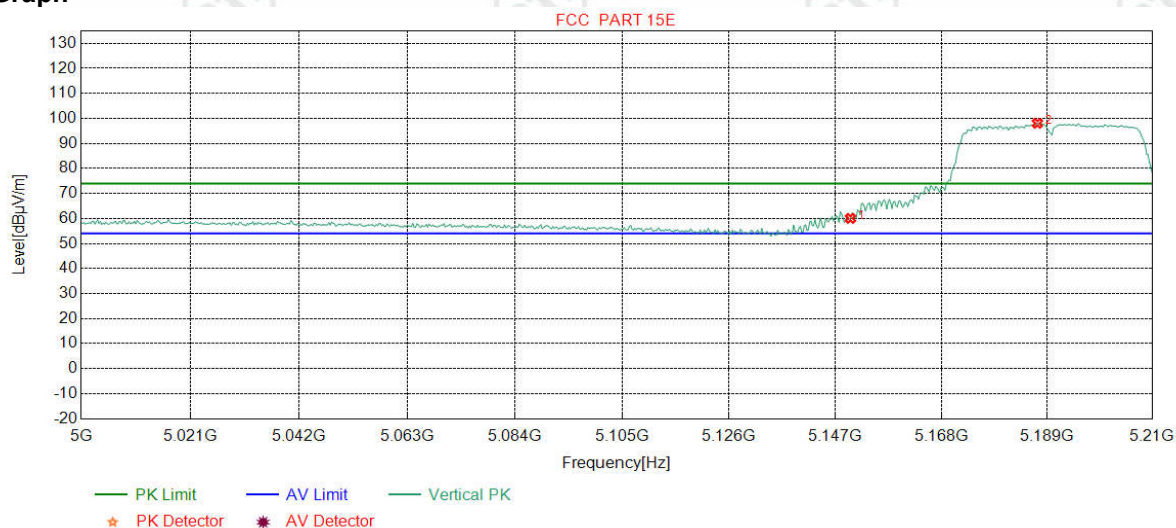
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	52.79	59.78	74.00	14.22	Pass	Horizontal
2	5187.6596	34.69	15.45	-42.73	90.19	97.60	74.00	-23.60	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

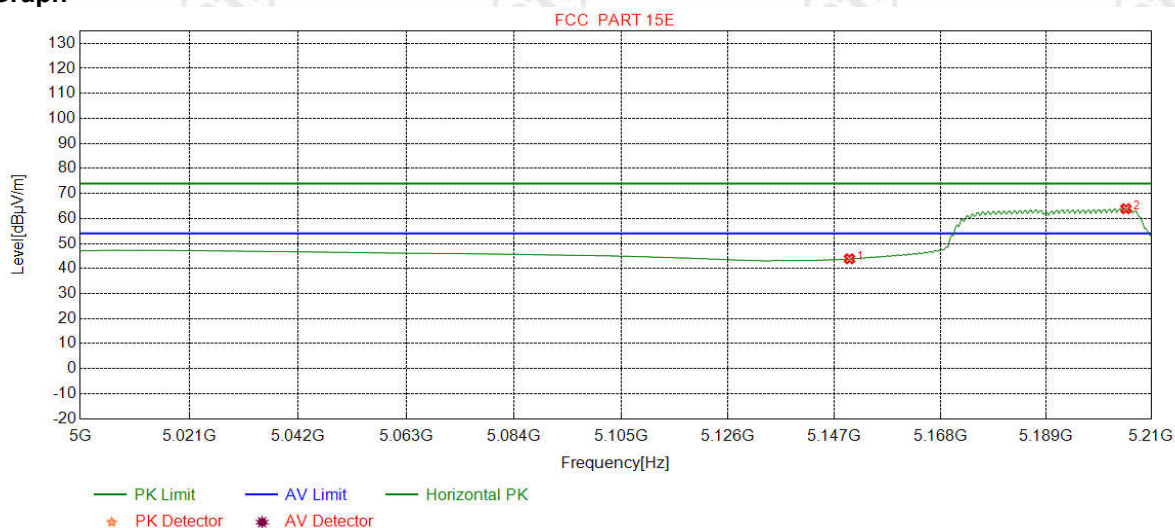
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	53.06	60.05	74.00	13.95	Pass	Vertical
2	5187.1339	34.69	15.44	-42.72	90.64	98.05	74.00	-24.05	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

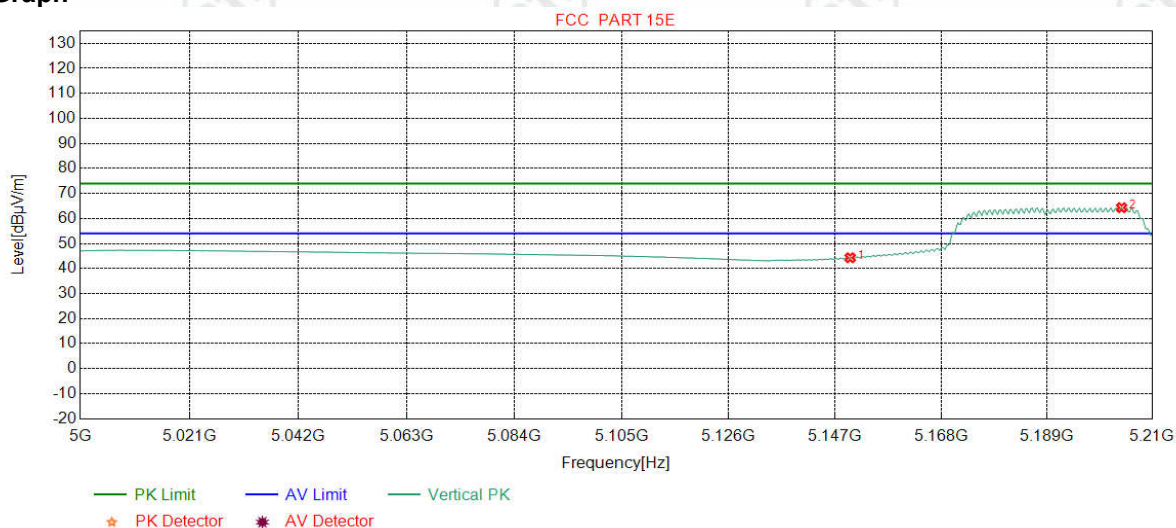
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	36.90	43.89	54.00	10.11	Pass	Horizontal
2	5205.0063	34.71	15.55	-42.73	56.37	63.90	54.00	-9.90	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

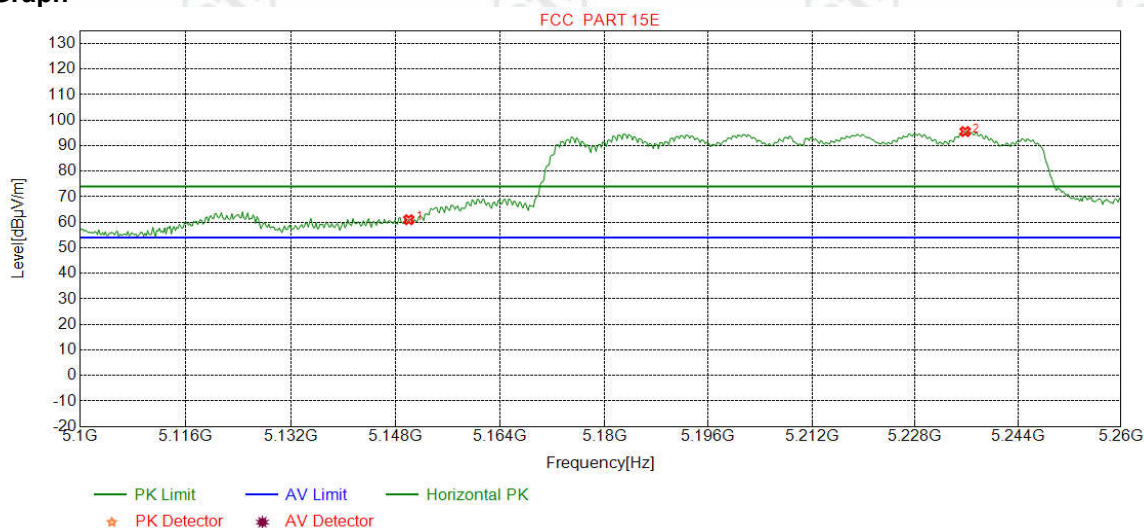
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	37.32	44.31	54.00	9.69	Pass	Vertical
2	5203.9549	34.70	15.55	-42.71	56.79	64.33	54.00	-10.33	Pass	Vertical

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	PK		

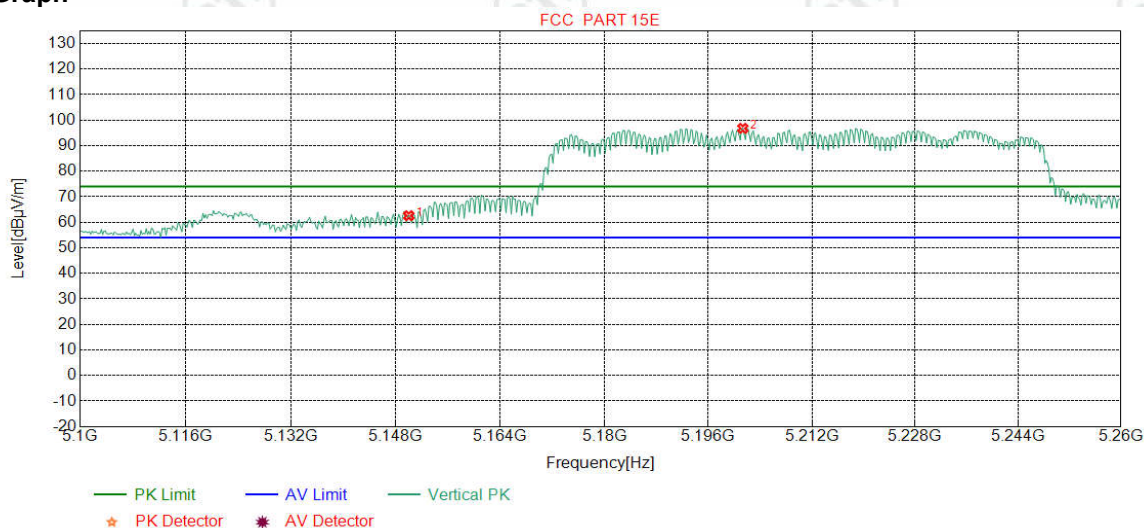
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	54.04	61.03	74.00	12.97	Pass	Horizontal
2	5235.7697	34.74	15.41	-42.71	88.11	95.55	74.00	-21.55	Pass	Horizontal

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	PK		

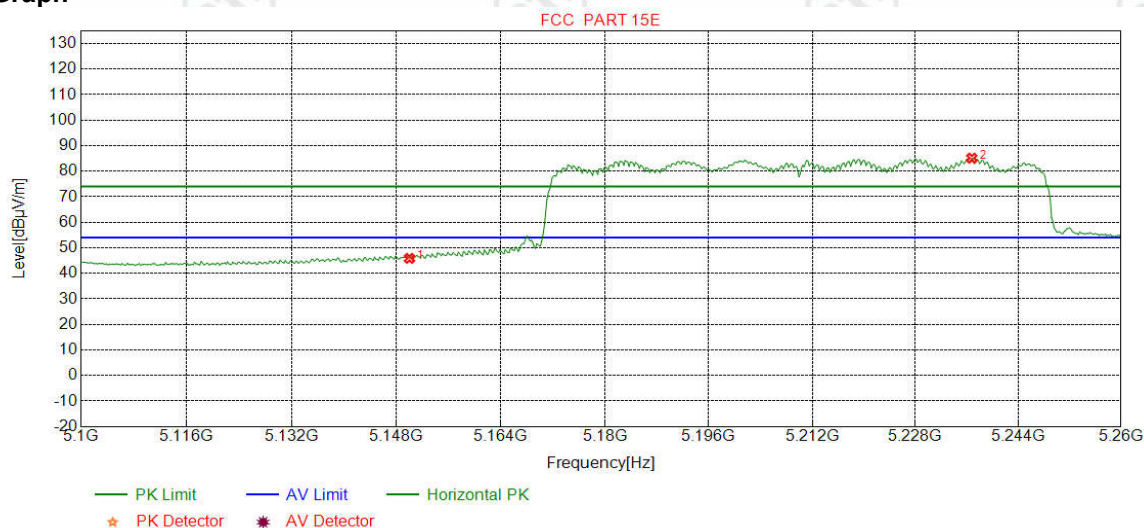
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	55.60	62.59	74.00	11.41	Pass	Vertical
2	5201.3267	34.70	15.56	-42.71	89.25	96.80	74.00	-22.80	Pass	Vertical

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	AV		

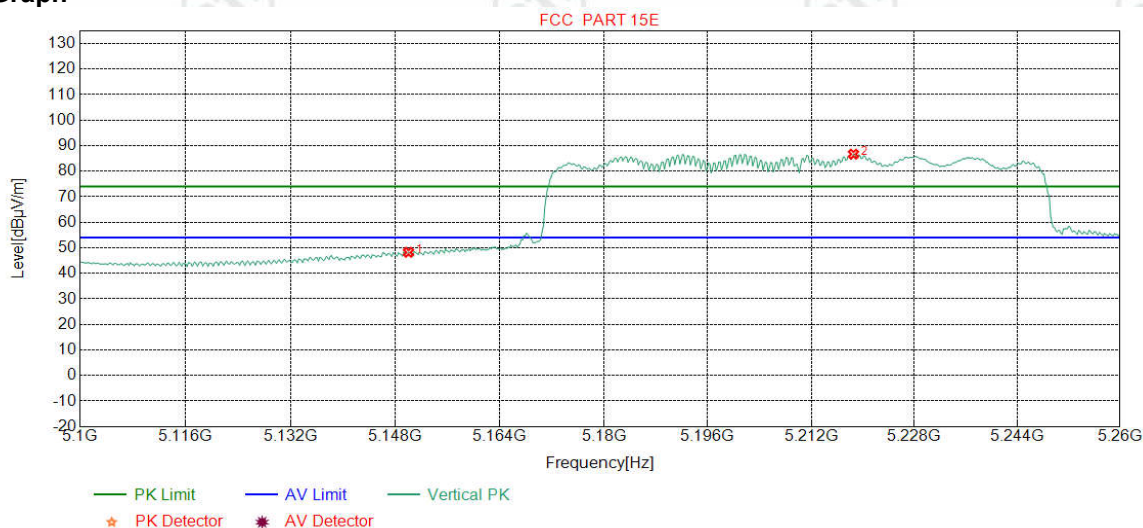
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	38.89	45.88	54.00	8.12	Pass	Horizontal
2	5236.7710	34.74	15.41	-42.71	77.69	85.13	54.00	-31.13	Pass	Horizontal

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	41.27	48.26	54.00	5.74	Pass	Vertical
2	5218.5482	34.72	15.49	-42.72	79.21	86.70	54.00	-32.70	Pass	Vertical

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Appendix I) Unwanted Emissions in the Restricted Bands (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:					
Below 1GHz test procedure as below:					
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-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 rota 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, quasi-peak or average method as specified and then reported in a data sheet.					
Above 1GHz test procedure as below:					
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre)					
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.					
j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
Test result:					
PASS					

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

Mode:		802.11a Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	48.2378	13.20	0.78	-31.97	48.32	30.33	40.00	9.67	Pass	H	PK
2	132.1512	7.59	1.34	-32.01	55.17	32.09	43.50	11.41	Pass	H	PK
3	240.0260	11.94	1.84	-31.90	51.82	33.70	46.00	12.30	Pass	H	PK
4	299.9780	13.20	2.06	-31.40	55.97	39.83	46.00	6.17	Pass	H	PK
5	649.8920	19.40	3.10	-32.07	46.73	37.16	46.00	8.84	Pass	H	PK
6	844.9785	21.44	3.50	-31.82	37.07	30.19	46.00	15.81	Pass	H	PK

Mode:		802.11a Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	67.1547	9.74	0.93	-31.98	54.84	33.53	40.00	6.47	Pass	V	PK
2	131.9572	7.60	1.34	-32.01	53.17	30.10	43.50	13.40	Pass	V	PK
3	240.0260	11.94	1.84	-31.90	46.89	28.77	46.00	17.23	Pass	V	PK
4	299.9780	13.20	2.06	-31.40	49.68	33.54	46.00	12.46	Pass	V	PK
5	649.9890	19.40	3.10	-32.07	46.59	37.02	46.00	8.98	Pass	V	PK
6	900.0800	22.10	3.60	-31.40	41.21	35.51	46.00	10.49	Pass	V	PK

Radiated Emission above 1GHz:

Mode:		802.11a Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1063.8064	27.96	2.87	-43.03	55.04	42.84	74.00	31.16	Pass	H	PK
2	2590.0000	32.54	4.79	-43.10	48.59	42.82	74.00	31.18	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.35	49.86	74.00	24.14	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.49	49.89	74.00	24.11	Pass	H	PK
5	6906.5453	36.06	6.48	-42.25	51.73	52.02	74.00	21.98	Pass	H	PK
6	10360.7430	38.31	7.29	-42.03	50.71	54.28	74.00	19.72	Pass	H	PK
7	10360.8054	38.31	7.29	-42.03	36.13	39.70	54.00	14.30	Pass	H	AV

Mode:		802.11a Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1103.4103	28.00	2.91	-42.99	56.17	44.09	74.00	29.91	Pass	V	PK
2	2590.0000	32.54	4.79	-43.10	48.81	43.04	74.00	30.96	Pass	V	PK
3	2699.6700	32.72	4.89	-43.10	54.96	49.47	74.00	24.53	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.13	51.53	74.00	22.47	Pass	V	PK
5	6907.1204	36.06	6.48	-42.25	51.30	51.59	74.00	22.41	Pass	V	PK
6	10363.6182	38.31	7.31	-42.03	51.83	55.42	74.00	18.58	Pass	V	PK
7	10363.6505	38.31	7.31	-42.03	36.32	39.91	54.00	14.09	Pass	V	AV

Mode:		802.11a Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1050.0550	27.95	2.86	-43.05	56.65	44.41	74.00	29.59	Pass	H	PK
2	2132.5633	31.89	4.42	-43.18	52.24	45.37	74.00	28.63	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.52	49.03	74.00	24.97	Pass	H	PK
4	6932.9967	36.07	6.45	-42.24	51.74	52.02	74.00	21.98	Pass	H	PK
5	9229.6615	37.65	6.65	-42.04	49.32	51.58	74.00	22.42	Pass	H	PK
6	10399.2700	38.36	7.54	-42.03	51.13	55.00	74.00	19.00	Pass	H	PK
7	10399.3216	38.36	7.54	-42.02	36.09	39.97	54.00	14.03	Pass	H	AV

Mode:		802.11a Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1165.0165	28.07	3.03	-42.94	55.85	44.01	74.00	29.99	Pass	V	PK
2	1800.3300	30.38	3.85	-42.71	51.52	43.04	74.00	30.96	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.17	49.68	74.00	24.32	Pass	V	PK
4	6933.5717	36.07	6.45	-42.24	53.52	53.80	74.00	20.20	Pass	V	PK
5	8524.1012	36.65	6.66	-41.99	49.64	50.96	74.00	23.04	Pass	V	PK
6	10398.1199	38.36	7.53	-42.03	51.66	55.52	74.00	18.48	Pass	V	PK
7	10398.2131	38.36	7.53	-42.02	36.94	40.81	54.00	13.19	Pass	V	AV

Mode:		802.11a Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1069.8570	27.97	2.88	-43.03	54.64	42.46	74.00	31.54	Pass	H	PK
2	1800.3300	30.38	3.85	-42.71	51.06	42.58	74.00	31.42	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.20	49.71	74.00	24.29	Pass	H	PK
4	4944.9945	34.50	7.17	-42.80	55.12	53.99	74.00	20.01	Pass	H	PK
5	6986.4743	36.09	6.35	-42.20	51.79	52.03	74.00	21.97	Pass	H	PK
6	10478.6239	38.47	7.45	-42.00	49.63	53.55	74.00	20.45	Pass	H	PK

Mode:		802.11a Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1163.3663	28.06	3.03	-42.93	55.48	43.64	74.00	30.36	Pass	V	PK
2	2699.6700	32.72	4.89	-43.10	55.70	50.21	74.00	23.79	Pass	V	PK
3	4500.0000	34.50	6.70	-42.80	53.19	51.59	74.00	22.41	Pass	V	PK
4	6987.0494	36.09	6.35	-42.20	53.36	53.60	74.00	20.40	Pass	V	PK
5	9172.7336	37.67	6.61	-42.04	49.61	51.85	74.00	22.15	Pass	V	PK
6	10486.0993	38.48	7.44	-42.00	49.28	53.20	74.00	20.80	Pass	V	PK

Mode:		802.11n(HT20) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1066.5567	27.97	2.87	-43.03	56.21	44.02	74.00	29.98	Pass	H	PK
2	2131.4631	31.88	4.42	-43.17	53.14	46.27	74.00	27.73	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.05	49.56	74.00	24.44	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	50.84	49.24	74.00	24.76	Pass	H	PK
5	6906.5453	36.06	6.48	-42.25	51.91	52.20	74.00	21.80	Pass	H	PK
6	10364.7682	38.31	7.31	-42.02	50.82	54.42	74.00	19.58	Pass	H	PK
7	10364.8368	38.31	7.31	-42.03	35.48	39.07	54.00	14.93	Pass	H	AV

Mode:		802.11n(HT20) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1144.1144	28.04	3.01	-42.95	55.11	43.21	74.00	30.79	Pass	V	PK
2	1800.3300	30.38	3.85	-42.71	51.74	43.26	74.00	30.74	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.30	49.81	74.00	24.19	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.10	51.50	74.00	22.50	Pass	V	PK
5	6907.1204	36.06	6.48	-42.25	53.58	53.87	74.00	20.13	Pass	V	PK
6	10357.2929	38.30	7.27	-42.03	52.92	56.46	74.00	17.54	Pass	V	PK
7	10357.3780	38.30	7.27	-42.03	36.46	40.00	54.00	14.00	Pass	V	AV

Mode:		802.11n(HT20) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1073.7074	27.97	2.88	-43.02	55.20	43.03	74.00	30.97	Pass	H	PK
2	2460.3960	32.34	4.68	-43.10	54.29	48.21	74.00	25.79	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.54	50.05	74.00	23.95	Pass	H	PK
4	4500.5501	34.50	6.70	-42.80	50.43	48.83	74.00	25.17	Pass	H	PK
5	6933.5717	36.07	6.45	-42.24	51.39	51.67	74.00	22.33	Pass	H	PK
6	10396.3948	38.35	7.52	-42.02	52.34	56.19	74.00	17.81	Pass	H	PK
7	10396.4403	38.36	7.52	-42.02	35.92	39.78	54.00	14.22	Pass	H	AV

Mode:		802.11n(HT20) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1119.3619	28.02	2.95	-42.98	55.04	43.03	74.00	30.97	Pass	V	PK
2	2133.1133	31.89	4.41	-43.17	52.87	46.00	74.00	28.00	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.31	49.82	74.00	24.18	Pass	V	PK
4	3665.0165	33.53	6.03	-43.06	52.23	48.73	74.00	25.27	Pass	V	PK
5	4500.0000	34.50	6.70	-42.80	52.78	51.18	74.00	22.82	Pass	V	PK
6	10394.6697	38.35	7.51	-42.02	52.27	56.11	74.00	17.89	Pass	V	PK
7	10394.7240	38.35	7.51	-42.02	36.23	40.07	54.00	13.93	Pass	V	AV

Mode:		802.11n(HT20) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1066.0066	27.97	2.87	-43.03	59.49	47.30	74.00	26.70	Pass	H	PK
2	1940.5941	31.31	4.14	-43.06	51.50	43.89	74.00	30.11	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.73	49.24	74.00	24.76	Pass	H	PK
4	6480.1980	35.90	8.59	-42.51	50.07	52.05	74.00	21.95	Pass	H	PK
5	8920.2960	37.52	6.89	-42.00	49.79	52.20	74.00	21.80	Pass	H	PK
6	10483.7992	38.48	7.44	-42.00	49.56	53.48	74.00	20.52	Pass	H	PK

Mode:		802.11n(HT20) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1171.6172	28.07	3.03	-42.92	56.01	44.19	74.00	29.81	Pass	V	PK
2	2699.6700	32.72	4.89	-43.10	55.17	49.68	74.00	24.32	Pass	V	PK
3	3663.3663	33.53	6.02	-43.07	50.53	47.01	74.00	26.99	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	52.65	51.05	74.00	22.95	Pass	V	PK
5	6493.3993	35.90	8.64	-42.50	49.17	51.21	74.00	22.79	Pass	V	PK
6	10480.3490	38.47	7.45	-42.00	51.63	55.55	74.00	18.45	Pass	V	PK
7	10480.3744	38.47	7.45	-42.00	36.13	40.05	54.00	13.95	Pass	V	AV

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1045.1045	27.95	2.85	-43.06	56.59	44.33	74.00	29.67	Pass	H	PK
2	2699.6700	32.72	4.89	-43.10	55.38	49.89	74.00	24.11	Pass	H	PK
3	3418.0418	33.37	5.76	-43.10	50.48	46.51	74.00	27.49	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.08	49.48	74.00	24.52	Pass	H	PK
5	6920.3460	36.07	6.47	-42.25	51.29	51.58	74.00	22.42	Pass	H	PK
6	10371.6686	38.32	7.36	-42.03	49.71	53.36	74.00	20.64	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1148.5149	28.05	3.02	-42.95	53.94	42.06	74.00	31.94	Pass	V	PK
2	2700.2200	32.72	4.89	-43.10	54.96	49.47	74.00	24.53	Pass	V	PK
3	3190.8691	33.28	5.70	-43.10	51.25	47.13	74.00	26.87	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.48	51.88	74.00	22.12	Pass	V	PK
5	6498.3498	35.90	8.66	-42.50	49.73	51.79	74.00	22.21	Pass	V	PK
6	10377.9939	38.33	7.40	-42.03	49.75	53.45	74.00	20.55	Pass	V	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1150.1650	28.05	3.02	-42.94	55.49	43.62	74.00	30.38	Pass	H	PK
2	1799.7800	30.38	3.85	-42.71	51.72	43.24	74.00	30.76	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.57	49.08	74.00	24.92	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.28	49.68	74.00	24.32	Pass	H	PK
5	6483.4984	35.90	8.60	-42.51	49.55	51.54	74.00	22.46	Pass	H	PK
6	10375.6938	38.33	7.38	-42.02	49.55	53.24	74.00	20.76	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1140.2640	28.04	3.00	-42.96	55.09	43.17	74.00	30.83	Pass	V	PK
2	2124.3124	31.87	4.45	-43.17	53.51	46.66	74.00	27.34	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.14	49.65	74.00	24.35	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	52.89	51.29	74.00	22.71	Pass	V	PK
5	6488.9989	35.90	8.62	-42.50	49.97	51.99	74.00	22.01	Pass	V	PK
6	10456.7728	38.44	7.50	-42.01	49.73	53.66	74.00	20.34	Pass	V	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1086.9087	27.99	2.89	-43.01	55.68	43.55	74.00	30.45	Pass	H	PK
2	2131.4631	31.88	4.42	-43.17	51.87	45.00	74.00	29.00	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.39	48.90	74.00	25.10	Pass	H	PK
4	6476.8977	35.90	8.57	-42.51	49.25	51.21	74.00	22.79	Pass	H	PK
5	7434.4217	36.53	6.47	-42.10	49.49	50.39	74.00	23.61	Pass	H	PK
6	10287.7144	38.20	7.20	-42.04	50.04	53.40	74.00	20.60	Pass	H	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1080.8581	27.98	2.88	-43.01	56.36	44.21	74.00	29.79	Pass	V	PK
2	2700.2200	32.72	4.89	-43.10	54.83	49.34	74.00	24.66	Pass	V	PK
3	3194.1694	33.28	5.72	-43.10	52.03	47.93	74.00	26.07	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.26	51.66	74.00	22.34	Pass	V	PK
5	6946.7973	36.08	6.43	-42.23	53.61	53.89	74.00	20.11	Pass	V	PK
6	10683.3342	38.54	7.29	-42.00	49.45	53.28	74.00	20.72	Pass	V	PK

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Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20720.0000	38.72	0.00	-63.22	65.71	41.21	74.00	32.79	Pass	H	PK
2	24438.3375	40.41	0.00	-60.23	67.05	47.23	74.00	26.77	Pass	H	PK
3	25900.0000	40.43	0.00	-59.44	62.77	43.76	74.00	30.24	Pass	H	PK
4	28372.9749	39.87	0.00	-60.47	67.43	46.83	74.00	27.17	Pass	H	PK
5	31080.0000	41.34	0.00	-58.91	62.50	44.93	74.00	29.07	Pass	H	PK
6	36260.0000	43.14	0.00	-58.07	60.73	45.80	74.00	28.20	Pass	H	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
7	20720.0000	38.72	0.00	-63.22	66.88	42.38	74.00	31.62	Pass	V	PK
8	24406.6563	40.39	0.00	-60.21	67.20	47.38	74.00	26.62	Pass	V	PK
9	25900.0000	40.43	0.00	-59.44	63.08	44.07	74.00	29.93	Pass	V	PK
10	29510.8604	40.58	0.00	-60.19	66.03	46.42	74.00	27.58	Pass	V	PK
11	31080.0000	41.34	0.00	-58.91	63.82	46.25	74.00	27.75	Pass	V	PK
12	36260.0000	43.14	0.00	-58.07	60.62	45.69	74.00	28.31	Pass	V	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20800.0000	38.69	0.00	-63.05	65.74	41.38	74.00	32.62	Pass	H	PK
2	24084.5634	40.22	0.00	-60.82	66.52	45.92	74.00	28.08	Pass	H	PK
3	26000.0000	40.40	0.00	-59.50	62.37	43.27	74.00	30.73	Pass	H	PK
4	29631.4253	40.65	0.00	-59.97	66.24	46.92	74.00	27.08	Pass	H	PK
5	31200.0000	41.43	0.00	-59.31	62.26	44.38	74.00	29.62	Pass	H	PK
6	36400.0000	43.12	0.00	-58.11	59.66	44.67	74.00	29.33	Pass	H	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20800.0000	38.69	0.00	-63.05	66.54	42.18	74.00	31.82	Pass	V	PK
2	24006.2403	40.17	0.00	-60.56	66.98	46.59	74.00	27.41	Pass	V	PK
3	26000.0000	40.40	0.00	-59.50	64.17	45.07	74.00	28.93	Pass	V	PK
4	27517.5807	39.98	0.00	-60.42	67.16	46.72	74.00	27.28	Pass	V	PK
5	31200.0000	41.43	0.00	-59.31	61.20	43.32	74.00	30.68	Pass	V	PK
6	36400.0000	43.12	0.00	-58.11	58.85	43.86	74.00	30.14	Pass	V	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20960.0000	38.63	0.00	-63.33	65.71	41.01	74.00	32.99	Pass	H	PK
2	23783.5913	39.88	0.00	-60.90	66.85	45.83	74.00	28.17	Pass	H	PK
3	26200.0000	40.40	0.00	-59.99	61.55	41.96	74.00	32.04	Pass	H	PK
4	29144.7658	40.38	0.00	-60.62	66.95	46.71	74.00	27.29	Pass	H	PK
5	31440.0000	41.61	0.00	-58.96	60.25	42.90	74.00	31.10	Pass	H	PK
6	36680.0000	43.10	0.00	-57.75	59.47	44.82	74.00	29.18	Pass	H	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20960.0000	38.63	0.00	-63.33	65.73	41.03	74.00	32.97	Pass	V	PK
2	24000.9600	40.17	0.00	-60.54	67.03	46.66	74.00	27.34	Pass	V	PK
3	26200.0000	40.40	0.00	-59.99	63.15	43.56	74.00	30.44	Pass	V	PK
4	27906.5563	39.68	0.00	-60.02	67.46	47.12	74.00	26.88	Pass	V	PK
5	31440.0000	41.61	0.00	-58.96	62.68	45.33	74.00	28.67	Pass	V	PK
6	36680.0000	43.10	0.00	-57.75	59.81	45.16	74.00	28.84	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20720.0000	38.72	0.00	-63.22	66.79	42.29	74.00	31.71	Pass	H	PK
2	24344.1738	40.36	0.00	-60.48	67.00	46.88	74.00	27.12	Pass	H	PK
3	25900.0000	40.43	0.00	-59.44	62.41	43.40	74.00	30.60	Pass	H	PK
4	28039.4416	39.64	0.00	-60.13	67.12	46.63	74.00	27.37	Pass	H	PK
5	31080.0000	41.34	0.00	-58.91	61.32	43.75	74.00	30.25	Pass	H	PK
6	36260.0000	43.14	0.00	-58.07	60.37	45.44	74.00	28.56	Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20720.0000	38.72	0.00	-63.22	66.09	41.59	74.00	32.41	Pass	V	PK
2	24074.0030	40.21	0.00	-60.78	66.96	46.39	74.00	27.61	Pass	V	PK
3	25900.0000	40.43	0.00	-59.44	63.59	44.58	74.00	29.42	Pass	V	PK
4	29118.3647	40.37	0.00	-60.59	67.36	47.14	74.00	26.86	Pass	V	PK
5	31080.0000	41.34	0.00	-58.91	62.06	44.49	74.00	29.51	Pass	V	PK
6	36260.0000	43.14	0.00	-58.07	58.94	44.01	74.00	29.99	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20800.0000	38.69	0.00	-63.05	66.66	42.30	74.00	31.70	Pass	H	PK
2	24384.6554	40.38	0.00	-60.28	66.55	46.65	74.00	27.35	Pass	H	PK
3	26000.0000	40.40	0.00	-59.50	63.24	44.14	74.00	29.86	Pass	H	PK
4	28730.2692	40.11	0.00	-60.72	66.38	45.77	74.00	28.23	Pass	H	PK
5	31200.0000	41.43	0.00	-59.31	60.54	42.66	74.00	31.34	Pass	H	PK
6	36400.0000	43.12	0.00	-58.11	59.84	44.85	74.00	29.15	Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20800.0000	38.69	0.00	-63.05	66.44	42.08	74.00	31.92	Pass	V	PK
2	23657.7463	39.71	0.00	-61.31	67.88	46.28	74.00	27.72	Pass	V	PK
3	26000.0000	40.40	0.00	-59.50	63.43	44.33	74.00	29.67	Pass	V	PK
4	28270.8908	39.80	0.00	-60.34	67.17	46.63	74.00	27.37	Pass	V	PK
5	31200.0000	41.43	0.00	-59.31	61.71	43.83	74.00	30.17	Pass	V	PK
6	36400.0000	43.12	0.00	-58.11	59.02	44.03	74.00	29.97	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20960.0000	38.63	0.00	-63.33	65.94	41.24	74.00	32.76	Pass	H	PK
2	23984.2394	40.15	0.00	-60.57	66.98	46.56	74.00	27.44	Pass	H	PK
3	26200.0000	40.40	0.00	-59.99	64.27	44.68	74.00	29.32	Pass	H	PK
4	29195.8078	40.41	0.00	-60.68	67.39	47.12	74.00	26.88	Pass	H	PK
5	31440.0000	41.61	0.00	-58.96	60.22	42.87	74.00	31.13	Pass	H	PK
6	36680.0000	43.10	0.00	-57.75	59.52	44.87	74.00	29.13	Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20960.0000	38.63	0.00	-63.33	66.33	41.63	74.00	32.37	Pass	V	PK
2	24263.2105	40.31	0.00	-60.88	66.80	46.23	74.00	27.77	Pass	V	PK
3	26200.0000	40.40	0.00	-59.99	63.22	43.63	74.00	30.37	Pass	V	PK
4	28887.7955	40.22	0.00	-60.52	66.89	46.59	74.00	27.41	Pass	V	PK
5	31440.0000	41.61	0.00	-58.96	61.09	43.74	74.00	30.26	Pass	V	PK
6	36680.0000	43.10	0.00	-57.75	59.26	44.61	74.00	29.39	Pass	V	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20760.0000	38.70	0.00	-63.13	66.14	41.71	74.00	32.29	Pass	H	PK
2	22232.0893	38.43	0.00	-63.09	68.89	44.23	74.00	29.77	Pass	H	PK
3	25950.0000	40.42	0.00	-59.47	62.82	43.77	74.00	30.23	Pass	H	PK
4	27953.1981	39.65	0.00	-60.06	66.68	46.27	74.00	27.73	Pass	H	PK
5	31140.0000	41.38	0.00	-59.10	62.18	44.46	74.00	29.54	Pass	H	PK
6	36330.0000	43.13	0.00	-58.09	59.64	44.68	74.00	29.32	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20760.0000	38.70	0.00	-63.13	66.34	41.91	74.00	32.09	Pass	V	PK
2	24020.3208	40.18	0.00	-60.61	66.61	46.18	74.00	27.82	Pass	V	PK
3	25950.0000	40.42	0.00	-59.47	63.28	44.23	74.00	29.77	Pass	V	PK
4	29044.4418	40.32	0.00	-60.50	67.31	47.13	74.00	26.87	Pass	V	PK
5	31140.0000	41.38	0.00	-59.10	61.39	43.67	74.00	30.33	Pass	V	PK
6	36330.0000	43.13	0.00	-58.09	61.87	46.91	74.00	27.09	Pass	V	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20920.0000	38.65	0.00	-63.26	65.36	40.75	74.00	33.25	Pass	H	PK
2	24684.7474	40.54	0.00	-60.37	66.16	46.33	74.00	27.67	Pass	H	PK
3	26150.0000	40.40	0.00	-59.87	62.46	42.99	74.00	31.01	Pass	H	PK
4	27902.1561	39.69	0.00	-60.02	67.82	47.49	74.00	26.51	Pass	H	PK
5	31380.0000	41.56	0.00	-59.01	60.27	42.82	74.00	31.18	Pass	H	PK
6	36610.0000	43.11	0.00	-57.32	59.83	45.62	74.00	28.38	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20920.0000	38.65	0.00	-63.26	65.17	40.56	74.00	33.44	Pass	V	PK
2	24083.6833	40.22	0.00	-60.82	67.25	46.65	74.00	27.35	Pass	V	PK
3	26150.0000	40.40	0.00	-59.87	62.66	43.19	74.00	30.81	Pass	V	PK
4	27993.6797	39.61	0.00	-60.09	67.35	46.87	74.00	27.13	Pass	V	PK
5	31380.0000	41.56	0.00	-59.01	61.44	43.99	74.00	30.01	Pass	V	PK
6	36610.0000	43.11	0.00	-57.32	59.57	45.36	74.00	28.64	Pass	V	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20840.0000	38.68	0.00	-63.13	66.05	41.60	74.00	32.40	Pass	H	PK
2	23615.5046	39.66	0.00	-61.45	66.98	45.19	74.00	28.81	Pass	H	PK
3	26050.0000	40.40	0.00	-59.62	62.50	43.28	74.00	30.72	Pass	H	PK
4	31260.0000	41.47	0.00	-59.21	61.10	43.36	74.00	30.64	Pass	H	PK
5	33741.1896	42.19	0.00	-58.00	64.00	48.19	74.00	25.81	Pass	H	PK
6	36470.0000	43.12	0.00	-57.82	59.64	44.94	74.00	29.06	Pass	H	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20840.0000	38.68	0.00	-63.13	66.57	42.12	74.00	31.88	Pass	V	PK
2	22268.1707	38.45	0.00	-63.06	69.02	44.41	74.00	29.59	Pass	V	PK
3	26050.0000	40.40	0.00	-59.62	63.47	44.25	74.00	29.75	Pass	V	PK
4	29297.8919	40.46	0.00	-60.62	67.17	47.01	74.00	26.99	Pass	V	PK
5	31260.0000	41.47	0.00	-59.21	61.67	43.93	74.00	30.07	Pass	V	PK
6	36470.0000	43.12	0.00	-57.82	61.07	46.37	74.00	27.63	Pass	V	PK

Appendix J) Unwanted Emissions that fall Outside of the Restricted Bands

Receiver Setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Frequency	Detector	RBW	VBW	Remark												
Above 1GHz	Peak	1MHz	3MHz	Peak													
Test Procedure:	a) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-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 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) Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel j) Test the EUT in the lowest channel or/and 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 worse case. i) Repeat above procedures until all frequencies measured was complete.																
Limit:	<table><tr><td>Transmitter Operation Frequency(MHz)</td><td>Limit (EIRP)</td><td>Limit (dBμV/m)@3m</td><td>Measurement distance (cm)</td></tr><tr><td>5150-5350</td><td>-27dBm/MHz</td><td>68.2dBuV/m</td><td>3</td></tr><tr><td>5470-5725</td><td>-27dBm/MHz</td><td>68.2dBuV/m</td><td>3</td></tr></table>					Transmitter Operation Frequency(MHz)	Limit (EIRP)	Limit (dBμV/m)@3m	Measurement distance (cm)	5150-5350	-27dBm/MHz	68.2dBuV/m	3	5470-5725	-27dBm/MHz	68.2dBuV/m	3
	Transmitter Operation Frequency(MHz)	Limit (EIRP)	Limit (dBμV/m)@3m	Measurement distance (cm)													
	5150-5350	-27dBm/MHz	68.2dBuV/m	3													
	5470-5725	-27dBm/MHz	68.2dBuV/m	3													
Note: (i) $EIRP = ((E*d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in meters; • EIRP is the equivalent isotropically radiated power in watts. (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dBμV/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dBμV/m] - 95.2$																	
Test result:	PASS																

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1050.0550	27.95	2.86	-43.05	56.65	44.41	68.20	23.79	Pass	H	PK
2	2132.5633	31.89	4.42	-43.18	52.24	45.37	68.20	22.83	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.52	49.03	68.20	19.17	Pass	H	PK
4	4499.4499	34.50	6.70	-42.80	50.73	49.13	68.20	19.07	Pass	H	PK
5	6932.9967	36.07	6.45	-42.24	51.74	52.02	68.20	16.18	Pass	H	PK
6	10399.2700	38.36	7.54	-42.03	51.13	55.00	68.20	13.20	Pass	H	PK
7	10399.3216	38.36	7.54	-42.02	36.09	39.97	0.00	-39.97	Pass	H	AV

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1165.0165	28.07	3.03	-42.94	55.85	44.01	68.20	24.19	Pass	V	PK
2	1800.3300	30.38	3.85	-42.71	51.52	43.04	68.20	25.16	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.17	49.68	68.20	18.52	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.78	52.18	68.20	16.02	Pass	V	PK
5	6933.5717	36.07	6.45	-42.24	53.52	53.80	68.20	14.40	Pass	V	PK
6	10398.1199	38.36	7.53	-42.03	51.66	55.52	68.20	12.68	Pass	V	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1069.8570	27.97	2.88	-43.03	54.64	42.46	68.20	25.74	Pass	H	PK
2	1800.3300	30.38	3.85	-42.71	51.06	42.58	68.20	25.62	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.20	49.71	68.20	18.49	Pass	H	PK
4	4944.9945	34.50	7.17	-42.80	55.12	53.99	68.20	14.21	Pass	H	PK
5	6986.4743	36.09	6.35	-42.20	51.79	52.03	68.20	16.17	Pass	H	PK
6	10478.6239	38.47	7.45	-42.00	49.63	53.55	68.20	14.65	Pass	H	PK

Mode:		802.11 a(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1163.3663	28.06	3.03	-42.93	55.48	43.64	68.20	24.56	Pass	V	PK
2	1944.9945	31.34	4.13	-43.07	50.76	43.16	68.20	25.04	Pass	V	PK
3	2699.6700	32.72	4.89	-43.10	55.70	50.21	68.20	17.99	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.19	51.59	68.20	16.61	Pass	V	PK
5	6987.0494	36.09	6.35	-42.20	53.36	53.60	68.20	14.60	Pass	V	PK
6	10999.6000	38.60	7.74	-42.00	49.84	54.18	68.20	14.02	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1066.5567	27.97	2.87	-43.03	56.21	44.02	68.20	24.18	Pass	H	PK
2	2131.4631	31.88	4.42	-43.17	53.14	46.27	68.20	21.93	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.05	49.56	68.20	18.64	Pass	H	PK
4	6906.5453	36.06	6.48	-42.25	51.91	52.20	68.20	16.00	Pass	H	PK
5	10364.7682	38.31	7.31	-42.02	50.82	54.42	68.20	13.78	Pass	H	PK
6									Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5180		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1144.1144	28.04	3.01	-42.95	55.11	43.21	68.20	24.99	Pass	V	PK
2	1800.3300	30.38	3.85	-42.71	51.74	43.26	68.20	24.94	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.30	49.81	68.20	18.39	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.10	51.50	68.20	16.70	Pass	V	PK
5	6907.1204	36.06	6.48	-42.25	53.58	53.87	68.20	14.33	Pass	V	PK
6	10357.2929	38.30	7.27	-42.03	52.92	56.46	68.20	11.74	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1073.7074	27.97	2.88	-43.02	55.20	43.03	68.20	25.17	Pass	H	PK
2	2460.3960	32.34	4.68	-43.10	54.29	48.21	68.20	19.99	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	55.54	50.05	68.20	18.15	Pass	H	PK
4	6933.5717	36.07	6.45	-42.24	51.39	51.67	68.20	16.53	Pass	H	PK
5	9029.5515	37.69	6.78	-42.00	49.60	52.07	68.20	16.13	Pass	H	PK
6	10396.3948	38.35	7.52	-42.02	52.34	56.19	68.20	12.01	Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5200		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2133.1133	31.89	4.41	-43.17	52.87	46.00	68.20	22.20	Pass	V	PK
2	2700.2200	32.72	4.89	-43.10	55.31	49.82	68.20	18.38	Pass	V	PK
3	3665.0165	33.53	6.03	-43.06	52.23	48.73	68.20	19.47	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	52.78	51.18	68.20	17.02	Pass	V	PK
5	6932.9967	36.07	6.45	-42.24	53.87	54.15	68.20	14.05	Pass	V	PK
6	10394.6697	38.35	7.51	-42.02	52.27	56.11	68.20	12.09	Pass	V	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1066.0066	27.97	2.87	-43.03	59.49	47.30	68.20	20.90	Pass	H	PK
2	1940.5941	31.31	4.14	-43.06	51.50	43.89	68.20	24.31	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.73	49.24	68.20	18.96	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.02	49.42	68.20	18.78	Pass	H	PK
5	6480.1980	35.90	8.59	-42.51	50.07	52.05	68.20	16.15	Pass	H	PK
6	11234.2117	38.74	7.67	-42.00	49.87	54.28	68.20	13.92	Pass	H	PK

Mode:		802.11 n(HT20Mbps) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1171.6172	28.07	3.03	-42.92	56.01	44.19	68.20	24.01	Pass	V	PK
2	2132.0132	31.88	4.42	-43.17	51.45	44.58	68.20	23.62	Pass	V	PK
3	2699.6700	32.72	4.89	-43.10	55.17	49.68	68.20	18.52	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	52.65	51.05	68.20	17.15	Pass	V	PK
5	6986.4743	36.09	6.35	-42.20	53.96	54.20	68.20	14.00	Pass	V	PK
6	10480.3490	38.47	7.45	-42.00	51.63	55.55	68.20	12.65	Pass	V	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1045.1045	27.95	2.85	-43.06	56.59	44.33	68.20	23.87	Pass	H	PK
2	2699.6700	32.72	4.89	-43.10	55.38	49.89	68.20	18.31	Pass	H	PK
3	3418.0418	33.37	5.76	-43.10	50.48	46.51	68.20	21.69	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.08	49.48	68.20	18.72	Pass	H	PK
5	6920.3460	36.07	6.47	-42.25	51.29	51.58	68.20	16.62	Pass	H	PK
6	10371.6686	38.32	7.36	-42.03	49.71	53.36	68.20	14.84	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1148.5149	28.05	3.02	-42.95	53.94	42.06	68.20	26.14	Pass	V	PK
2	1799.7800	30.38	3.85	-42.71	51.53	43.05	68.20	25.15	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	54.96	49.47	68.20	18.73	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.48	51.88	68.20	16.32	Pass	V	PK
5	6920.3460	36.07	6.47	-42.25	54.36	54.65	68.20	13.55	Pass	V	PK
6	10377.9939	38.33	7.40	-42.03	49.75	53.45	68.20	14.75	Pass	V	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1150.1650	28.05	3.02	-42.94	55.49	43.62	68.20	24.58	Pass	H	PK
2	1799.7800	30.38	3.85	-42.71	51.72	43.24	68.20	24.96	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.57	49.08	68.20	19.12	Pass	H	PK
4	4500.0000	34.50	6.70	-42.80	51.28	49.68	68.20	18.52	Pass	H	PK
5	6973.2487	36.09	6.38	-42.22	51.12	51.37	68.20	16.83	Pass	H	PK
6	9753.5127	37.70	6.86	-42.10	50.11	52.57	68.20	15.63	Pass	H	PK

Mode:		802.11 n(HT40Mbps) Transmitting					Channel:		5230		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1140.2640	28.04	3.00	-42.96	55.09	43.17	68.20	25.03	Pass	V	PK
2	2124.3124	31.87	4.45	-43.17	53.51	46.66	68.20	21.54	Pass	V	PK
3	2700.2200	32.72	4.89	-43.10	55.14	49.65	68.20	18.55	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	52.89	51.29	68.20	16.91	Pass	V	PK
5	6973.2487	36.09	6.38	-42.22	54.34	54.59	68.20	13.61	Pass	V	PK
6	10456.7728	38.44	7.50	-42.01	49.73	53.66	68.20	14.54	Pass	V	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1086.9087	27.99	2.89	-43.01	55.68	43.55	68.20	24.65	Pass	H	PK
2	2131.4631	31.88	4.42	-43.17	51.87	45.00	68.20	23.20	Pass	H	PK
3	2700.2200	32.72	4.89	-43.10	54.39	48.90	68.20	19.30	Pass	H	PK
4	6443.8944	35.89	8.47	-42.52	49.49	51.33	68.20	16.87	Pass	H	PK
5	9142.8321	37.67	6.62	-42.02	49.78	52.05	68.20	16.15	Pass	H	PK
6	11241.1121	38.74	7.69	-41.99	49.79	54.23	68.20	13.97	Pass	H	PK

Mode:		802.11 ac(VHT80Mbps) Transmitting					Channel:		5210		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1080.8581	27.98	2.88	-43.01	56.36	44.21	68.20	23.99	Pass	V	PK
2	2700.2200	32.72	4.89	-43.10	54.83	49.34	68.20	18.86	Pass	V	PK
3	3194.1694	33.28	5.72	-43.10	52.03	47.93	68.20	20.27	Pass	V	PK
4	4500.0000	34.50	6.70	-42.80	53.26	51.66	68.20	16.54	Pass	V	PK
5	6946.7973	36.08	6.43	-42.23	53.61	53.89	68.20	14.31	Pass	V	PK
6	9123.2812	37.68	6.64	-42.03	49.54	51.83	68.20	16.37	Pass	V	PK

Test Data:

For the all emission,out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit. Refer to test item“Unwanted Emissions in the Restricted Bands (Radiated Emission)” test result.

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

2) Scan from 1GHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.