

TEST REPORT

Product : Grid Pad 13
Trade mark : Smartbox
Model/Type reference : GP13A
Serial Number : N/A
Report Number : EED32P81900304
FCC ID : 2APXM-GP13A
Date of Issue : Jan. 31, 2024
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

Smartbox Assistive Technology Limited
Ysobel House, Enigma Commercial Centre, Sandys Road, Malvern,
Worcestershire, UK WR14 1JJ

Prepared by:

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Date:

Jan. 31, 2024



Check No.: 2727231123

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3 Version

Version No.	Date	Description
00	Jan. 31, 2024	Original

4 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	\	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

5 General Information

5.1 Client Information

Applicant:	Smartbox Assistive Technology Limited
Address of Applicant:	Ysobel House, Enigma Commercial Centre, Sandys Road, Malvern, Worcestershire, UK WR14 1JJ
Manufacturer:	Smartbox Assistive Technology Limited
Address of Manufacturer:	Ysobel House, Enigma Commercial Centre, Sandys Road, Malvern, Worcestershire, UK WR14 1JJ
Factory :	Estone Technology LTD
Address of Factory :	2F, Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.

5.2 General Description of EUT

Product Name:	Grid Pad 13	
Model No.:	GP13A	
Trade mark:	Smartbox	
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location	
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40/HE80): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) (Resource Unit with subcarriers: Full RU)	
Operating Frequency	U-NII-1 & U-NII-2A: 5150-5250MHz U-NII-3: 5745-5825MHz	
Antenna Type:	PCB antenna	
Antenna Gain:	Band 1: ANT1(Main): 3.81dBi, ANT2(AUX): -1.29dBi Band 4: ANT1(Main): 1.99dBi, ANT2(AUX): -2.3dBi	
Power Supply:	AC/DC ADAPTER:	MODEL: MANGO60S-19AB-ES INPUT: 100-240V~50/60Hz, 1.5A MAX OUTPUT: 19V, 3.15A, 60W MAX
	Rechargeable Li-ion Battery 1:	Model: 875583-3S Nominal Voltage: 11.4V Rated Capacity: 5820mAh/66.348Wh Charging Limited Voltage: 13.05V
	Rechargeable Li-ion Battery 2:	Model: 875583-3S Nominal Voltage: 11.4V Rated Capacity: 5820mAh/66.348Wh Charging Limited Voltage: 13.05V
Test voltage:	AC 120V	
Sample Received Date:	Dec. 07, 2023	
Sample tested Date:	Dec. 07, 2023 to Jan. 31, 2024	

Operation Frequency each of channel

802.11a/802.11n/802.11ac/802.11ax (20MHz) Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
-	-	165	5825

802.11n/802.11ac/802.11ax (40MHz) Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
46	5230	159	5795

802.11ac/802.11ax (80MHz) Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	155	5775

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

5.3 Test Configuration

EUT Test Software Settings:	
Software:	DRTU_install.exe
EUT Power Grade:	Default
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	
Test Mode:	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(VHT20)	MCS0
802.11ac(VHT40)	MCS0
802.11ac(VHT80)	MCS0
802.11ax(HE20)	MCS0
802.11ax(HE40)	MCS0
802.11ax(HE80)	MCS0

5.4 Test Environment

Operating Environment:		
Radiated Spurious Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Conducted Emissions:		
Temperature:	22~25.0 °C	
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
RF Conducted:		
Humidity:	50~55 % RH	
Atmospheric Pressure:	1010mbar	
Temperature:	NT (Normal Temperature)	22~25.0 °C
	LT (Low Temperature)	0 °C
	HT (High Temperature)	35 °C
Working Voltage of the EUT:	NV (Normal Voltage)	DC 11.40V
	LV (Low Voltage)	DC 9.69V
	HV (High Voltage)	DC 13.11V

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

5.6 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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 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	3.3dB (9kHz-30MHz)
		4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
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%

6 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-28-2023	06-27-2024
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-05-2023	09-04-2024
Spectrum Analyzer	R&S	FSV40	101200	07-25-2023	07-24-2024
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-28-2023	06-27-2024
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-11-2023	12-10-2024
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-01-2023	05-31-2024
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-25-2023	04-24-2024
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-29-2023	06-28-2024
ISN	TESEQ	ISN T800	30297	01-04-2022 12-14-2023	12-29-2023 12-13-2024

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09-22-2023	09-21-2024
Spectrum Analyzer	R&S	FSV40	101200	07/25/2023	07/24/2024
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/23/2022 12/14/2023	12/23/2023 12/13/2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05/29/2021	05/28/2024
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Preamplifier	Agilent	11909A	12-1	03/28/2023	03/27/2024
Preamplifier	CD	PAP-1840-60	6041.6042	07/03/2023	07/02/2024
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
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	---	---

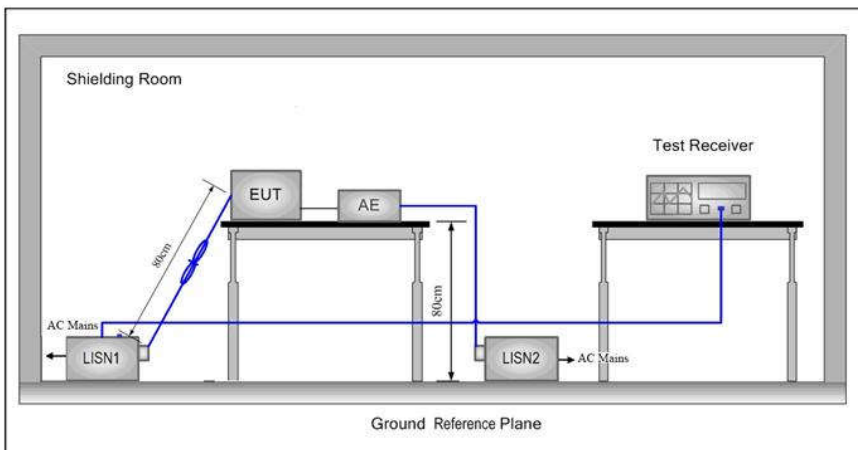
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3	---	01-16-2021 01-09-2024	01-15-2024 01-08-2027
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	---	---

7 Radio Technical Requirements Specification

7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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.	
EUT Antenna:	Please see Internal photos
The antenna is internal antenna antenna. The best case gain of the antenna are Band 1: ANT1(Main):3.81dBi, ANT2(AUX):-1.29dBi, Band 4: ANT1(Main):1.99dBi, ANT2(AUX):-2.3dBi	

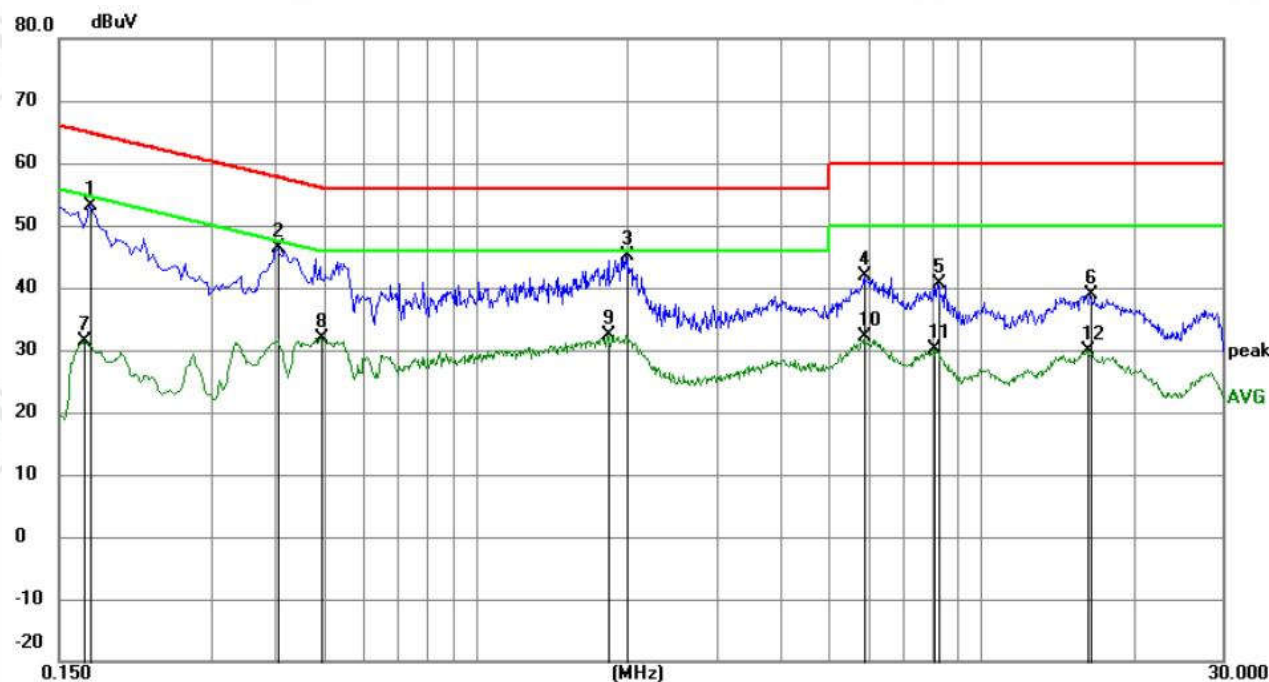
7.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	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 $50\Omega/50\mu\text{H} + 5\Omega$ 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: 2013 on conducted measurement.		

Test Mode:	All modes were tested, only the worst case was recorded in the report.
Test Results:	Pass

Measurement Data

Live line:

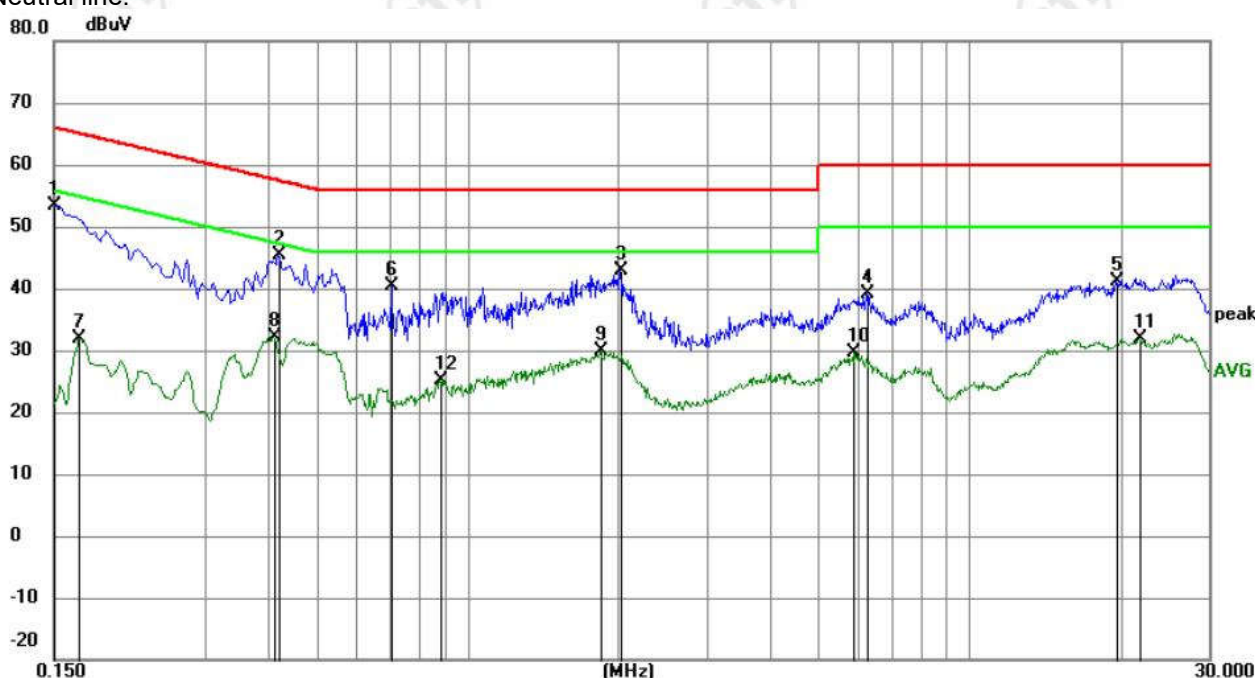


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1725	43.32	9.87	53.19	64.84	-11.65	peak	
2		0.4065	36.32	9.97	46.29	57.72	-11.43	peak	
3	*	1.9905	35.25	9.79	45.04	56.00	-10.96	peak	
4		5.8875	32.12	9.78	41.90	60.00	-18.10	peak	
5		8.1960	30.80	9.79	40.59	60.00	-19.41	peak	
6		16.4355	28.97	9.94	38.91	60.00	-21.09	peak	
7		0.1680	21.62	9.87	31.49	55.06	-23.57	AVG	
8		0.4965	21.92	9.95	31.87	46.06	-14.19	AVG	
9		1.8240	22.60	9.80	32.40	46.00	-13.60	AVG	
10		5.8875	22.27	9.78	32.05	50.00	-17.95	AVG	
11		8.1015	20.27	9.79	30.06	50.00	-19.94	AVG	
12		16.2825	19.99	9.94	29.93	50.00	-20.07	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

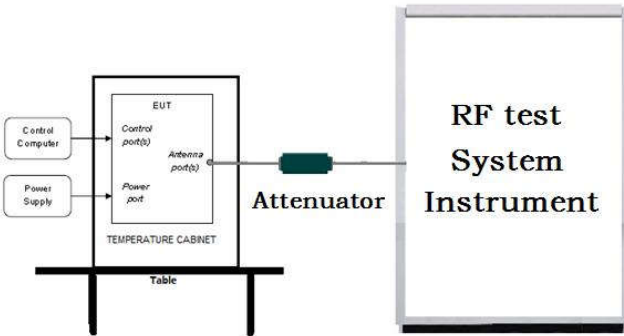


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	43.43	9.87	53.30	66.00	-12.70	peak	
2	*	0.4200	35.32	9.97	45.29	57.45	-12.16	peak	
3		2.0175	33.14	9.79	42.93	56.00	-13.07	peak	
4		6.2204	29.43	9.79	39.22	60.00	-20.78	peak	
5		19.6350	31.12	9.97	41.09	60.00	-18.91	peak	
6		0.7080	30.61	9.88	40.49	56.00	-15.51	peak	
7		0.1680	22.04	9.87	31.91	55.06	-23.15	AVG	
8		0.4110	22.22	9.97	32.19	47.63	-15.44	AVG	
9		1.8465	19.99	9.80	29.79	46.00	-16.21	AVG	
10		5.8785	19.84	9.78	29.62	50.00	-20.38	AVG	
11		21.8265	21.84	9.98	31.82	50.00	-18.18	AVG	
12		0.8835	15.20	9.85	25.05	46.00	-20.95	AVG	

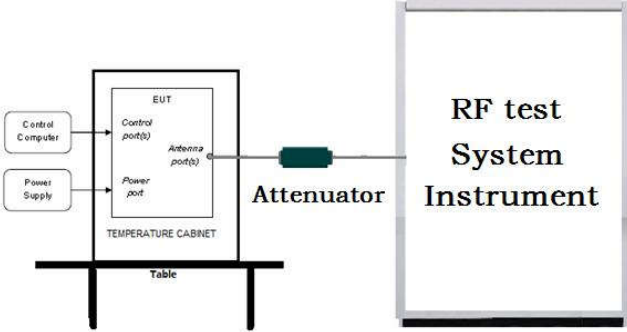
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

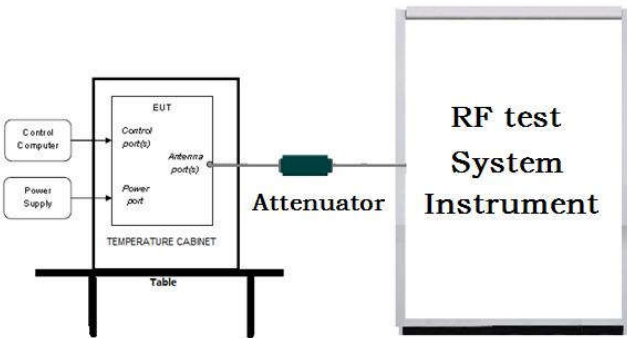
7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E												
Test Setup:													
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.												
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5150-5250</td><td> $\leq 1W(30dBm)$ for master device $\leq 250mW(24dBm)$ for client device </td></tr> <tr> <td>5250-5350</td><td>$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$</td></tr> <tr> <td>5470-5725</td><td>$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$</td></tr> <tr> <td>5725-5850</td><td>$\leq 1W(30dBm)$</td></tr> <tr> <td>Remark:</td><td> * Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. </td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	$\leq 1W(30dBm)$ for master device $\leq 250mW(24dBm)$ for client device	5250-5350	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$	5470-5725	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$	5725-5850	$\leq 1W(30dBm)$	Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.
Frequency band (MHz)	Limit												
5150-5250	$\leq 1W(30dBm)$ for master device $\leq 250mW(24dBm)$ for client device												
5250-5350	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$												
5470-5725	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$												
5725-5850	$\leq 1W(30dBm)$												
Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.												
Test Mode:	Transmitting mode with modulation												
Test Results:	Refer to Appendix 5G WiFi												

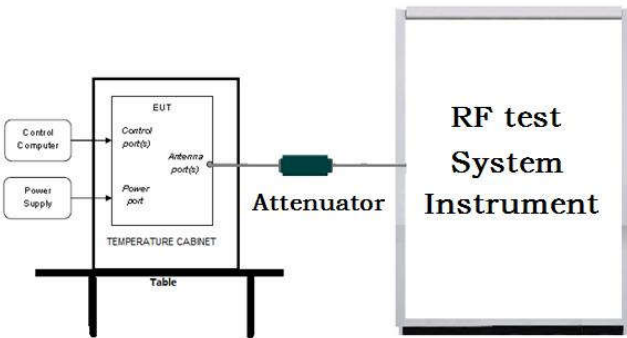
7.4 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WiFi

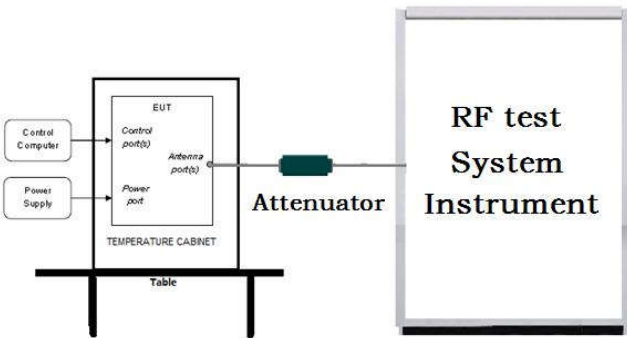
7.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Limit:	No restriction limits
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WiFi

7.6 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.407 (a)												
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F												
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.												
Test Procedure:	- Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. - Allow the sweeps to continue until the trace stabilizes. - Use the peak marker function to determine the maximum amplitude level.												
Limit:	<table border="1"> <thead> <tr> <th>Frequency band (MHz)</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>5150-5250</td><td> $\leq 17\text{dBm}$ in 1MHz for master device $\leq 11\text{dBm}$ in 1MHz for client device </td></tr> <tr> <td>5250-5350</td><td>$\leq 11\text{dBm}$ in 1MHz for client device</td></tr> <tr> <td>5470-5725</td><td>$\leq 11\text{dBm}$ in 1MHz for client device</td></tr> <tr> <td>5725-5850</td><td>$\leq 30\text{dBm}$ in 500kHz</td></tr> <tr> <td>Remark:</td><td>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr> </tbody> </table>	Frequency band (MHz)	Limit	5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device $\leq 11\text{dBm}$ in 1MHz for client device	5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device	5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device	5725-5850	$\leq 30\text{dBm}$ in 500kHz	Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.
Frequency band (MHz)	Limit												
5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device $\leq 11\text{dBm}$ in 1MHz for client device												
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device												
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device												
5725-5850	$\leq 30\text{dBm}$ in 500kHz												
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.												
Test Mode:	Transmitting mode with modulation												
Test Results:	Refer to Appendix 5G WiFi												

7.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1.The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. 2. Turn the EUT on and couple its output to a spectrum analyzer. 3. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. 4. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. 5. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WiFi

7.8 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	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
	*(1) 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. (2) For transmitters operating in the 5.25-5.35 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. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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. Note: (i) $EIRP = ((E \cdot d)^2) / 30$ 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: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$
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Test Setup:

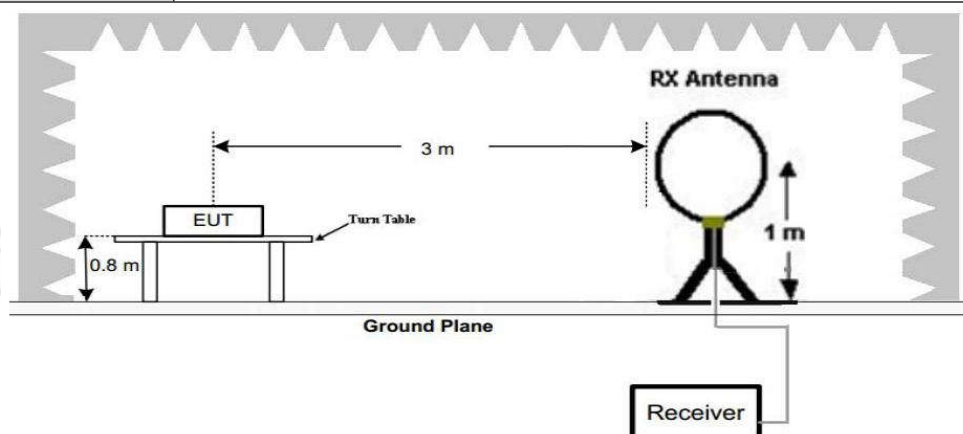


Figure 1. Below 30MHz

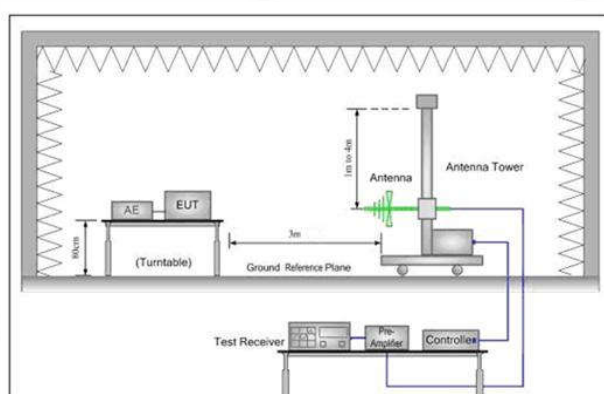


Figure 2. 30MHz to 1GHz

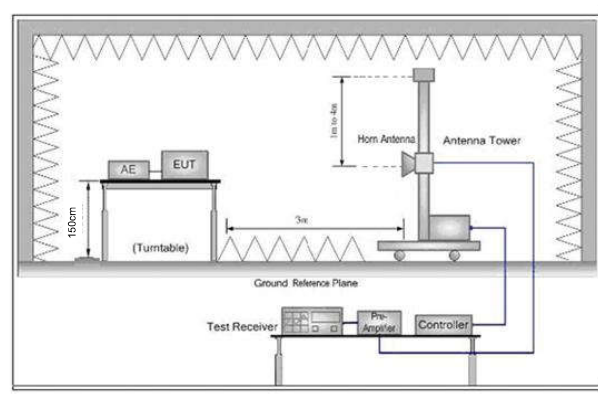


Figure 3. Above 1 GHz

Test Procedure:

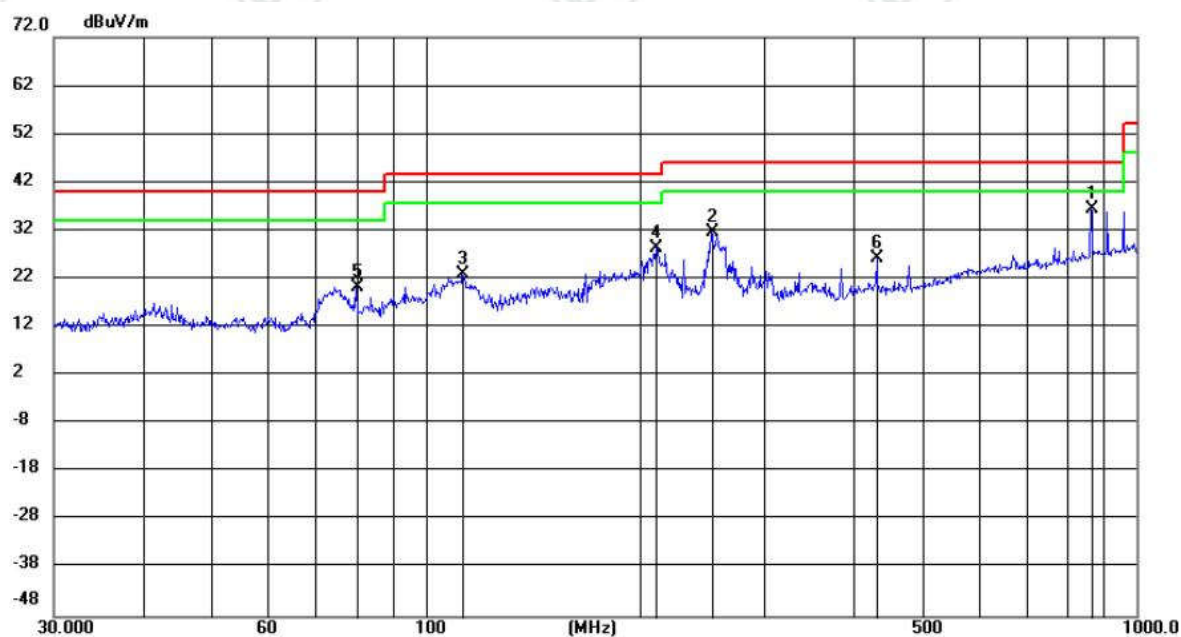
- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:

	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. - 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 (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. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - 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. - Test the EUT in the lowest channel, the middle channel and 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 the worst case. - Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

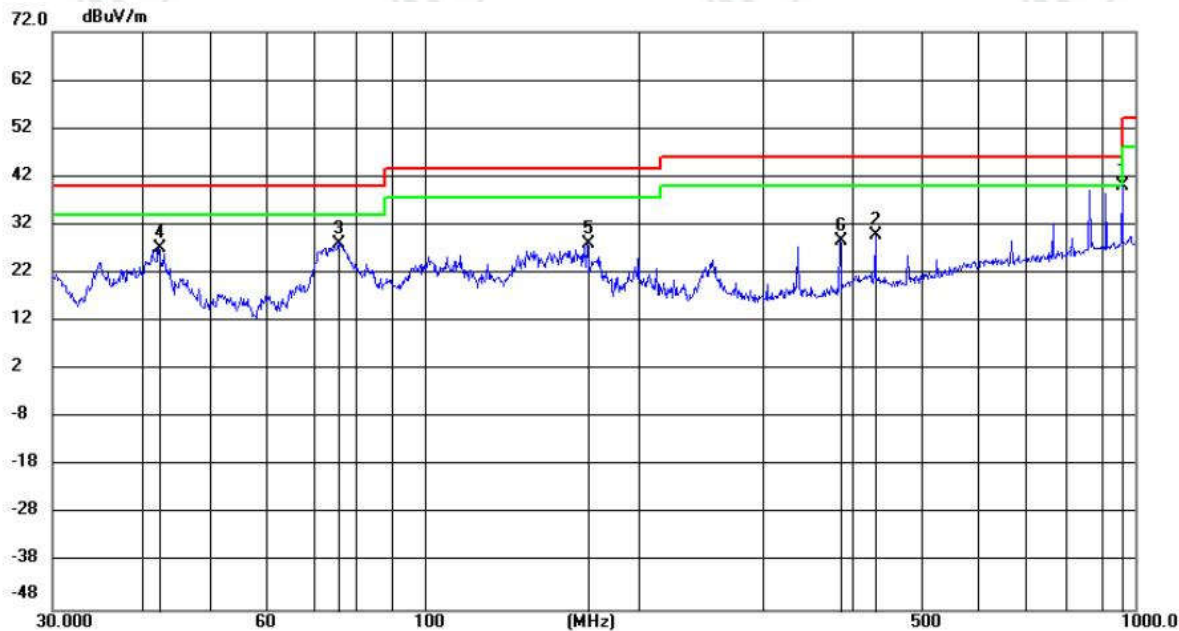
Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 6Mbps for 802.11 a was recorded in the report.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	863.9646	9.52	26.84	36.36	46.00	-9.64	peak	199	299
2		252.7265	16.98	14.79	31.77	46.00	-14.23	peak	199	352
3		112.6230	10.23	12.69	22.92	43.50	-20.58	peak	199	225
4		211.0818	15.00	13.22	28.22	43.50	-15.28	peak	100	163
5		79.9683	10.84	9.55	20.39	40.00	-19.61	peak	199	330
6		432.0151	7.00	19.18	26.18	46.00	-19.82	peak	199	23

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		960.1401	12.39	27.77	40.16	54.00	-13.84	peak	100	0
2		432.0151	10.78	19.18	29.96	46.00	-16.04	peak	100	352
3	*	75.9373	18.52	9.68	28.20	40.00	-11.80	peak	200	18
4		42.3616	13.05	14.11	27.16	40.00	-12.84	peak	100	159
5		170.1649	16.21	11.72	27.93	43.50	-15.57	peak	100	181
6		383.9990	10.59	18.15	28.74	46.00	-17.26	peak	100	352

Transmitter Emission above 1GHz

Remark: During the test, the Radiates Emission above 1G was performed in all modes, only the worst case ant1 and ant2 transmit simultaneously was recorded in the report.

MIMO:

Mode:			802.11 n(HT20) Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2100.11	5.05	38.13	43.18	68.20	25.02	PASS	Horizontal	PK
2	3055.5556	6.69	36.68	43.37	68.20	24.83	PASS	Horizontal	PK
3	4173.8174	9.98	35.24	45.22	68.20	22.98	PASS	Horizontal	PK
4	7633.3817	-10.75	49.58	38.83	68.20	29.37	PASS	Horizontal	PK
5	9742.0121	-7.40	49.73	42.33	68.20	25.87	PASS	Horizontal	PK
6	12424.5212	-4.08	49.48	45.40	68.20	22.80	PASS	Horizontal	PK
7	1915.8416	4.25	37.34	41.59	68.20	26.61	PASS	Vertical	PK
8	3052.2552	6.69	38.62	45.31	68.20	22.89	PASS	Vertical	PK
9	4707.9208	11.90	34.34	46.24	68.20	21.96	PASS	Vertical	PK
10	7621.8811	-10.68	49.77	39.09	68.20	29.11	PASS	Vertical	PK
11	11282.5141	-6.42	49.30	42.88	68.20	25.32	PASS	Vertical	PK
12	16524.4762	0.64	48.40	49.04	68.20	19.16	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5200MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2043.4543	4.81	37.67	42.48	68.20	25.72	PASS	Horizontal	PK
2	3341.0341	7.47	36.58	44.05	68.20	24.15	PASS	Horizontal	PK
3	4413.0913	11.25	34.80	46.05	68.20	22.15	PASS	Horizontal	PK
4	7642.0071	-10.81	50.07	39.26	68.20	28.94	PASS	Horizontal	PK
5	11897.2199	-5.46	49.91	44.45	68.20	23.75	PASS	Horizontal	PK
6	17018.4259	2.75	47.07	49.82	68.20	18.38	PASS	Horizontal	PK
7	1925.1925	4.30	37.42	41.72	68.20	26.48	PASS	Vertical	PK
8	2826.7327	5.99	37.83	43.82	68.20	24.38	PASS	Vertical	PK
9	4396.5897	11.22	34.38	45.60	68.20	22.60	PASS	Vertical	PK
10	7004.3002	-11.68	51.07	39.39	68.20	28.81	PASS	Vertical	PK
11	9231.9616	-7.68	50.50	42.82	68.20	25.38	PASS	Vertical	PK
12	14291.6396	-0.48	47.43	46.95	68.20	21.25	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2121.0121	4.82	37.00	41.82	68.20	26.38	PASS	Horizontal	PK
2	3139.1639	6.88	37.10	43.98	68.20	24.22	PASS	Horizontal	PK
3	4406.4906	11.23	35.31	46.54	68.20	21.66	PASS	Horizontal	PK
4	7558.6279	-10.84	50.41	39.57	68.20	28.63	PASS	Horizontal	PK
5	11258.3629	-6.21	50.61	44.40	68.20	23.80	PASS	Horizontal	PK
6	14359.493	0.20	46.89	47.09	68.20	21.11	PASS	Horizontal	PK
7	2037.9538	4.78	37.56	42.34	68.20	25.86	PASS	Vertical	PK
8	3316.8317	7.42	37.16	44.58	68.20	23.62	PASS	Vertical	PK
9	4503.8504	11.43	34.46	45.89	68.20	22.31	PASS	Vertical	PK
10	7387.2694	-11.45	50.47	39.02	68.20	29.18	PASS	Vertical	PK
11	9640.232	-7.42	49.74	42.32	68.20	25.88	PASS	Vertical	PK
12	16526.2013	0.64	49.39	50.03	68.20	18.17	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2097.9098	5.04	37.86	42.90	68.20	25.30	PASS	Horizontal	PK
2	3316.8317	7.42	36.45	43.87	68.20	24.33	PASS	Horizontal	PK
3	4413.0913	11.25	35.00	46.25	68.20	21.95	PASS	Horizontal	PK
4	7619.581	-10.66	51.00	40.34	68.20	27.86	PASS	Horizontal	PK
5	10343.4922	-6.26	49.31	43.05	68.20	25.15	PASS	Horizontal	PK
6	16541.7271	0.79	48.57	49.36	68.20	18.84	PASS	Horizontal	PK
7	2125.9626	4.76	38.23	42.99	68.20	25.21	PASS	Vertical	PK
8	3052.2552	6.69	37.61	44.30	68.20	23.90	PASS	Vertical	PK
9	4473.5974	11.36	34.03	45.39	68.20	22.81	PASS	Vertical	PK
10	7578.7539	-10.69	50.74	40.05	68.20	28.15	PASS	Vertical	PK
11	10662.6331	-6.27	49.38	43.11	68.20	25.09	PASS	Vertical	PK
12	17005.7753	2.94	46.16	49.10	68.20	19.10	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2025.3025	4.73	37.11	41.84	68.20	26.36	PASS	Horizontal	PK
2	3204.0704	6.99	37.22	44.21	68.20	23.99	PASS	Horizontal	PK
3	4550.055	11.59	34.60	46.19	68.20	22.01	PASS	Horizontal	PK
4	7425.2213	-11.43	50.52	39.09	68.20	29.11	PASS	Horizontal	PK
5	10617.7809	-6.40	48.83	42.43	68.20	25.77	PASS	Horizontal	PK
6	14394.5697	0.58	45.14	45.72	68.20	22.48	PASS	Horizontal	PK
7	2299.78	4.05	37.77	41.82	68.20	26.38	PASS	Vertical	PK
8	3064.3564	6.72	37.13	43.85	68.20	24.35	PASS	Vertical	PK
9	4248.0748	10.52	33.95	44.47	68.20	23.73	PASS	Vertical	PK
10	7586.2293	-10.63	51.28	40.65	68.20	27.55	PASS	Vertical	PK
11	10834.5667	-6.26	48.88	42.62	68.20	25.58	PASS	Vertical	PK
12	17019.576	2.73	46.84	49.57	68.20	18.63	PASS	Vertical	PK

Mode:			802.11 ac(VHT80) Transmitting			Channel:		5210MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1931.2431	4.33	38.08	42.41	68.20	25.79	PASS	Horizontal	PK
2	3080.308	6.76	37.69	44.45	68.20	23.75	PASS	Horizontal	PK
3	4361.3861	11.12	33.28	44.40	68.20	23.80	PASS	Horizontal	PK
4	7577.0289	-10.70	50.14	39.44	68.20	28.76	PASS	Horizontal	PK
5	11222.7111	-5.92	49.09	43.17	68.20	25.03	PASS	Horizontal	PK
6	16967.2484	2.89	46.79	49.68	68.20	18.52	PASS	Horizontal	PK
7	1892.1892	4.13	38.12	42.25	68.20	25.95	PASS	Vertical	PK
8	3046.2046	6.67	37.05	43.72	68.20	24.48	PASS	Vertical	PK
9	4394.9395	11.20	34.52	45.72	68.20	22.48	PASS	Vertical	PK
10	7770.2385	-11.30	50.13	38.83	68.20	29.37	PASS	Vertical	PK
11	9674.7337	-7.51	49.87	42.36	68.20	25.84	PASS	Vertical	PK
12	14383.0692	0.45	45.37	45.82	68.20	22.38	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2116.6117	5.42	37.45	42.87	68.20	25.33	PASS	Horizontal	PK
2	3506.0506	8.32	37.59	45.91	68.20	22.29	PASS	Horizontal	PK
3	5033.0033	13.84	35.83	49.67	68.20	18.53	PASS	Horizontal	PK
4	9165.8777	-8.04	49.36	41.32	68.20	26.88	PASS	Horizontal	PK
5	14369.5913	0.31	47.33	47.64	68.20	20.56	PASS	Horizontal	PK
6	17011.7008	2.85	47.53	50.38	68.20	17.82	PASS	Horizontal	PK
7	2058.3058	5.40	37.41	42.81	68.20	25.39	PASS	Vertical	PK
8	3511.5512	8.29	36.89	45.18	68.20	23.02	PASS	Vertical	PK
9	5033.0033	13.84	35.88	49.72	68.20	18.48	PASS	Vertical	PK
10	7550.4034	-10.90	50.74	39.84	68.20	28.36	PASS	Vertical	PK
11	11213.7809	-5.84	49.01	43.17	68.20	25.03	PASS	Vertical	PK
12	16461.9641	0.15	48.46	48.61	68.20	19.59	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5785MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2154.0154	4.95	37.56	42.51	68.20	25.69	PASS	Horizontal	PK
2	3769.527	9.04	35.87	44.91	68.20	23.29	PASS	Horizontal	PK
3	5022.5523	13.79	35.93	49.72	68.20	18.48	PASS	Horizontal	PK
4	7571.8715	-10.74	49.94	39.20	68.20	29.00	PASS	Horizontal	PK
5	11140.176	-6.14	49.77	43.63	68.20	24.57	PASS	Horizontal	PK
6	16974.1316	2.92	48.16	51.08	68.20	17.12	PASS	Horizontal	PK
7	2043.4543	5.32	38.49	43.81	68.20	24.39	PASS	Vertical	PK
8	3310.7811	8.30	37.09	45.39	68.20	22.81	PASS	Vertical	PK
9	5007.1507	13.73	36.65	50.38	68.20	17.82	PASS	Vertical	PK
10	9019.4346	-8.45	49.28	40.83	68.20	27.37	PASS	Vertical	PK
11	12442.0628	-4.11	49.03	44.92	68.20	23.28	PASS	Vertical	PK
12	17179.612	3.03	47.44	50.47	68.20	17.73	PASS	Vertical	PK

Mode:			802.11 n(HT20) Transmitting			Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1924.0924	4.81	37.68	42.49	68.20	25.71	PASS	Horizontal	PK
2	3183.7184	7.79	37.10	44.89	68.20	23.31	PASS	Horizontal	PK
3	5067.6568	14.01	35.87	49.88	68.20	18.32	PASS	Horizontal	PK
4	7588.7392	-10.62	49.78	39.16	68.20	29.04	PASS	Horizontal	PK
5	10294.4863	-6.30	48.98	42.68	68.20	25.52	PASS	Horizontal	PK
6	17165.0443	2.76	48.46	51.22	68.20	16.98	PASS	Horizontal	PK
7	2031.3531	5.25	37.44	42.69	68.20	25.51	PASS	Vertical	PK
8	2927.3927	7.06	36.49	43.55	68.20	24.65	PASS	Vertical	PK
9	5038.5038	13.87	35.79	49.66	68.20	18.54	PASS	Vertical	PK
10	7577.2385	-10.70	50.75	40.05	68.20	28.15	PASS	Vertical	PK
11	11761.2174	-6.04	49.65	43.61	68.20	24.59	PASS	Vertical	PK
12	17075.3384	1.91	48.84	50.75	68.20	17.45	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5755MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1924.6425	4.81	37.77	42.58	68.20	25.62	PASS	Horizontal	PK
2	3286.0286	8.25	36.57	44.82	68.20	23.38	PASS	Horizontal	PK
3	4707.3707	12.96	34.50	47.46	68.20	20.74	PASS	Horizontal	PK
4	7058.9373	-11.70	50.82	39.12	68.20	29.08	PASS	Horizontal	PK
5	11153.9769	-6.04	48.82	42.78	68.20	25.42	PASS	Horizontal	PK
6	15982.7655	-0.16	47.26	47.10	68.20	21.10	PASS	Horizontal	PK
7	1986.7987	5.03	37.99	43.02	68.20	25.18	PASS	Vertical	PK
8	3084.1584	7.56	37.20	44.76	68.20	23.44	PASS	Vertical	PK
9	5027.5028	13.82	36.21	50.03	68.20	18.17	PASS	Vertical	PK
10	8360.8241	-10.81	50.48	39.67	68.20	28.53	PASS	Vertical	PK
11	12455.8637	-4.16	48.43	44.27	68.20	23.93	PASS	Vertical	PK
12	16955.7304	2.84	47.58	50.42	68.20	17.78	PASS	Vertical	PK

Mode:			802.11 n(HT40) Transmitting			Channel:		5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2129.813	5.25	37.77	43.02	68.20	25.18	PASS	Horizontal	PK
2	3563.8064	7.92	37.00	44.92	68.20	23.28	PASS	Horizontal	PK
3	5018.1518	13.78	35.99	49.77	68.20	18.43	PASS	Horizontal	PK
4	7582.6055	-10.66	49.60	38.94	68.20	29.26	PASS	Horizontal	PK
5	13167.3778	-3.02	48.54	45.52	68.20	22.68	PASS	Horizontal	PK
6	16951.8968	2.82	48.88	51.70	68.20	16.50	PASS	Horizontal	PK
7	2126.5127	5.30	37.68	42.98	68.20	25.22	PASS	Vertical	PK
8	2706.8207	6.14	37.30	43.44	68.20	24.76	PASS	Vertical	PK
9	5033.5534	13.84	35.55	49.39	68.20	18.81	PASS	Vertical	PK
10	8705.0803	-10.07	49.11	39.04	68.20	29.16	PASS	Vertical	PK
11	10263.8176	-6.53	50.09	43.56	68.20	24.64	PASS	Vertical	PK
12	16514.1009	0.54	47.70	48.24	68.20	19.96	PASS	Vertical	PK

Mode:			802.11 ac(VHT80) Transmitting			Channel:		5775MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2031.3531	5.25	37.39	42.64	68.20	25.56	PASS	Horizontal	PK
2	3052.2552	7.40	37.19	44.59	68.20	23.61	PASS	Horizontal	PK
3	5031.9032	13.84	35.74	49.58	68.20	18.62	PASS	Horizontal	PK
4	7586.4391	-10.63	49.51	38.88	68.20	29.32	PASS	Horizontal	PK
5	11217.6145	-5.87	49.85	43.98	68.20	24.22	PASS	Horizontal	PK
6	16513.3342	0.53	49.29	49.82	68.20	18.38	PASS	Horizontal	PK
7	1893.8394	4.66	37.57	42.23	68.20	25.97	PASS	Vertical	PK
8	3197.4697	7.82	37.32	45.14	68.20	23.06	PASS	Vertical	PK
9	5012.1012	13.74	37.59	51.33	68.20	16.87	PASS	Vertical	PK
10	7603.3069	-10.55	49.96	39.41	68.20	28.79	PASS	Vertical	PK
11	12494.1996	-4.25	49.03	44.78	68.20	23.42	PASS	Vertical	PK
12	17047.7365	2.32	48.64	50.96	68.20	17.24	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2032.4532	4.76	37.62	42.38	68.20	25.82	PASS	Horizontal	PK
2	2850.9351	6.09	38.10	44.19	68.20	24.01	PASS	Horizontal	PK
3	4524.2024	11.50	34.37	45.87	68.20	22.33	PASS	Horizontal	PK
4	7590.2545	-10.61	50.00	39.39	68.20	28.81	PASS	Horizontal	PK
5	10278.5139	-6.42	49.56	43.14	68.20	25.06	PASS	Horizontal	PK
6	17009.8005	2.88	47.94	50.82	68.20	17.38	PASS	Horizontal	PK
7	2102.8603	5.01	37.12	42.13	68.20	26.07	PASS	Vertical	PK
8	3200.7701	6.97	37.15	44.12	68.20	24.08	PASS	Vertical	PK
9	4422.9923	11.26	34.37	45.63	68.20	22.57	PASS	Vertical	PK
10	7577.6039	-10.70	50.85	40.15	68.20	28.05	PASS	Vertical	PK
11	9630.4565	-7.41	50.26	42.85	68.20	25.35	PASS	Vertical	PK
12	17001.7501	2.99	47.29	50.28	68.20	17.92	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5200MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2009.3509	4.66	37.08	41.74	68.20	26.46	PASS	Horizontal	PK
2	3198.0198	6.97	37.48	44.45	68.20	23.75	PASS	Horizontal	PK
3	4353.1353	11.08	33.80	44.88	68.20	23.32	PASS	Horizontal	PK
4	7004.3002	-11.68	51.28	39.60	68.20	28.60	PASS	Horizontal	PK
5	11166.3583	-5.96	49.20	43.24	68.20	24.96	PASS	Horizontal	PK
6	16464.0982	0.16	48.13	48.29	68.20	19.91	PASS	Horizontal	PK
7	1982.9483	4.55	37.30	41.85	68.20	26.35	PASS	Vertical	PK
8	3086.3586	6.78	36.92	43.70	68.20	24.50	PASS	Vertical	PK
9	4433.4433	11.29	33.85	45.14	68.20	23.06	PASS	Vertical	PK
10	7614.4057	-10.63	49.82	39.19	68.20	29.01	PASS	Vertical	PK
11	12413.0207	-4.04	49.12	45.08	68.20	23.12	PASS	Vertical	PK
12	16933.3217	2.74	47.45	50.19	68.20	18.01	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2002.7503	4.63	37.97	42.60	68.20	25.60	PASS	Horizontal	PK
2	2966.9967	6.46	36.26	42.72	68.20	25.48	PASS	Horizontal	PK
3	3961.4962	9.23	34.96	44.19	68.20	24.01	PASS	Horizontal	PK
4	7555.1778	-10.86	49.96	39.10	68.20	29.10	PASS	Horizontal	PK
5	13660.833	-1.69	47.74	46.05	68.20	22.15	PASS	Horizontal	PK
6	17088.5794	1.71	48.37	50.08	68.20	18.12	PASS	Horizontal	PK
7	2040.154	4.80	37.53	42.33	68.20	25.87	PASS	Vertical	PK
8	3166.6667	6.92	37.03	43.95	68.20	24.25	PASS	Vertical	PK
9	4066.0066	9.54	34.72	44.26	68.20	23.94	PASS	Vertical	PK
10	7609.8055	-10.59	50.93	40.34	68.20	27.86	PASS	Vertical	PK
11	11216.3858	-5.86	48.73	42.87	68.20	25.33	PASS	Vertical	PK
12	13666.5833	-1.70	47.42	45.72	68.20	22.48	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2035.7536	4.77	37.15	41.92	68.20	26.28	PASS	Horizontal	PK
2	3314.6315	7.42	36.44	43.86	68.20	24.34	PASS	Horizontal	PK
3	4305.8306	10.96	34.80	45.76	68.20	22.44	PASS	Horizontal	PK
4	8275.6888	-10.98	50.06	39.08	68.20	29.12	PASS	Horizontal	PK
5	11833.3917	-5.94	50.96	45.02	68.20	23.18	PASS	Horizontal	PK
6	17022.4511	2.69	46.55	49.24	68.20	18.96	PASS	Horizontal	PK
7	2034.1034	4.77	37.22	41.99	68.20	26.21	PASS	Vertical	PK
8	3052.8053	6.69	36.58	43.27	68.20	24.93	PASS	Vertical	PK
9	4059.4059	9.53	35.37	44.90	68.20	23.30	PASS	Vertical	PK
10	7570.7035	-10.75	50.46	39.71	68.20	28.49	PASS	Vertical	PK
11	11234.2117	-6.01	50.43	44.42	68.20	23.78	PASS	Vertical	PK
12	16524.4762	0.64	47.92	48.56	68.20	19.64	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2016.5016	4.69	37.92	42.61	68.20	25.59	PASS	Horizontal	PK
2	2683.1683	5.48	39.20	44.68	68.20	23.52	PASS	Horizontal	PK
3	3873.4873	8.81	35.20	44.01	68.20	24.19	PASS	Horizontal	PK
4	7609.2305	-10.59	49.47	38.88	68.20	29.32	PASS	Horizontal	PK
5	11232.4866	-6.00	49.63	43.63	68.20	24.57	PASS	Horizontal	PK
6	16426.1463	-0.09	48.90	48.81	68.20	19.39	PASS	Horizontal	PK
7	1847.6348	3.77	37.50	41.27	68.20	26.93	PASS	Vertical	PK
8	3032.4532	6.63	37.20	43.83	68.20	24.37	PASS	Vertical	PK
9	4256.8757	10.59	34.03	44.62	68.20	23.58	PASS	Vertical	PK
10	7591.9796	-10.59	50.42	39.83	68.20	28.37	PASS	Vertical	PK
11	11986.3493	-4.91	49.80	44.89	68.20	23.31	PASS	Vertical	PK
12	14298.5399	-0.44	46.00	45.56	68.20	22.64	PASS	Vertical	PK

Mode:			802.11 ax(HE80) Transmitting			Channel:		5210MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1985.6986	4.56	37.89	42.45	68.20	25.75	PASS	Horizontal	PK
2	2707.3707	5.57	37.32	42.89	68.20	25.31	PASS	Horizontal	PK
3	3449.3949	7.59	36.79	44.38	68.20	23.82	PASS	Horizontal	PK
4	8535.6018	-10.56	49.87	39.31	68.20	28.89	PASS	Horizontal	PK
5	12461.8981	-4.17	49.21	45.04	68.20	23.16	PASS	Horizontal	PK
6	17005.2003	2.95	46.75	49.70	68.20	18.50	PASS	Horizontal	PK
7	1924.6425	4.29	37.02	41.31	68.20	26.89	PASS	Vertical	PK
8	3085.8086	6.78	37.23	44.01	68.20	24.19	PASS	Vertical	PK
9	3914.7415	8.98	36.42	45.40	68.20	22.80	PASS	Vertical	PK
10	7617.2809	-10.65	50.58	39.93	68.20	28.27	PASS	Vertical	PK
11	11215.2358	-5.85	49.09	43.24	68.20	24.96	PASS	Vertical	PK
12	16531.3766	0.69	49.16	49.85	68.20	18.35	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1998.8999	5.07	37.23	42.30	68.20	25.90	PASS	Horizontal	PK
2	2677.6678	6.02	36.97	42.99	68.20	25.21	PASS	Horizontal	PK
3	3852.0352	9.54	34.87	44.41	68.20	23.79	PASS	Horizontal	PK
4	7630.142	-10.73	50.96	40.23	68.20	27.97	PASS	Horizontal	PK
5	10963.0642	-6.04	49.44	43.40	68.20	24.80	PASS	Horizontal	PK
6	15952.0968	-0.06	48.22	48.16	68.20	20.04	PASS	Horizontal	PK
7	2047.8548	5.35	37.71	43.06	68.20	25.14	PASS	Vertical	PK
8	3143.5644	7.73	37.73	45.46	68.20	22.74	PASS	Vertical	PK
9	4994.4994	13.68	35.85	49.53	68.20	18.67	PASS	Vertical	PK
10	9666.5444	-7.49	49.12	41.63	68.20	26.57	PASS	Vertical	PK
11	13135.1757	-3.06	48.24	45.18	68.20	23.02	PASS	Vertical	PK
12	16964.931	2.88	47.43	50.31	68.20	17.89	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5785MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2047.3047	5.34	37.19	42.53	68.20	25.67	PASS	Horizontal	PK
2	3180.418	7.78	37.18	44.96	68.20	23.24	PASS	Horizontal	PK
3	5062.7063	13.98	35.72	49.70	68.20	18.50	PASS	Horizontal	PK
4	7359.4906	-11.37	51.23	39.86	68.20	28.34	PASS	Horizontal	PK
5	13124.4416	-3.08	49.93	46.85	68.20	21.35	PASS	Horizontal	PK
6	17053.8703	2.22	48.57	50.79	68.20	17.41	PASS	Horizontal	PK
7	2067.1067	5.45	38.60	44.05	68.20	24.15	PASS	Vertical	PK
8	2803.6304	6.49	37.63	44.12	68.20	24.08	PASS	Vertical	PK
9	4691.9692	12.93	34.62	47.55	68.20	20.65	PASS	Vertical	PK
10	8715.0477	-9.97	49.59	39.62	68.20	28.58	PASS	Vertical	PK
11	11244.4496	-6.09	49.33	43.24	68.20	24.96	PASS	Vertical	PK
12	16526.3684	0.65	47.68	48.33	68.20	19.87	PASS	Vertical	PK

Mode:			802.11 ax(HE20) Transmitting			Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2089.659	5.58	36.66	42.24	68.20	25.96	PASS	Horizontal	PK
2	3315.1815	8.30	36.16	44.46	68.20	23.74	PASS	Horizontal	PK
3	4475.2475	12.23	34.31	46.54	68.20	21.66	PASS	Horizontal	PK
4	8554.0369	-10.55	49.46	38.91	68.20	29.29	PASS	Horizontal	PK
5	11179.2786	-5.86	49.52	43.66	68.20	24.54	PASS	Horizontal	PK
6	14386.4591	0.50	46.86	47.36	68.20	20.84	PASS	Horizontal	PK
7	2033.0033	5.27	37.37	42.64	68.20	25.56	PASS	Vertical	PK
8	3067.1067	7.48	37.81	45.29	68.20	22.91	PASS	Vertical	PK
9	5014.3014	13.75	36.43	50.18	68.20	18.02	PASS	Vertical	PK
10	8364.6576	-10.78	50.40	39.62	68.20	28.58	PASS	Vertical	PK
11	11190.7794	-5.79	48.90	43.11	68.20	25.09	PASS	Vertical	PK
12	17624.3083	3.68	46.97	50.65	68.20	17.55	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5755MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1614.9615	2.83	37.97	40.80	68.20	27.40	PASS	Horizontal	PK
2	2033.5534	5.27	37.55	42.82	68.20	25.38	PASS	Horizontal	PK
3	3170.5171	7.77	37.32	45.09	68.20	23.11	PASS	Horizontal	PK
4	6968.4646	-11.77	51.24	39.47	68.20	28.73	PASS	Horizontal	PK
5	11190.7794	-5.79	48.96	43.17	68.20	25.03	PASS	Horizontal	PK
6	16995.5997	3.00	46.96	49.96	68.20	18.24	PASS	Horizontal	PK
7	2125.9626	5.31	37.85	43.16	68.20	25.04	PASS	Vertical	PK
8	3162.2662	7.75	37.35	45.10	68.20	23.10	PASS	Vertical	PK
9	5026.4026	13.82	35.65	49.47	68.20	18.73	PASS	Vertical	PK
10	7548.1032	-10.92	50.82	39.90	68.20	28.30	PASS	Vertical	PK
11	13681.8455	-1.72	47.85	46.13	68.20	22.07	PASS	Vertical	PK
12	17047.7365	2.32	47.98	50.30	68.20	17.90	PASS	Vertical	PK

Mode:			802.11 ax(HE40) Transmitting			Channel:		5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2035.7536	5.28	37.80	43.08	68.20	25.12	PASS	Horizontal	PK
2	3052.2552	7.40	37.35	44.75	68.20	23.45	PASS	Horizontal	PK
3	4998.3498	13.69	36.20	49.89	68.20	18.31	PASS	Horizontal	PK
4	7561.1374	-10.82	50.45	39.63	68.20	28.57	PASS	Horizontal	PK
5	12261.1174	-5.30	49.21	43.91	68.20	24.29	PASS	Horizontal	PK
6	17037.0025	2.48	48.56	51.04	68.20	17.16	PASS	Horizontal	PK
7	2034.1034	5.27	37.74	43.01	68.20	25.19	PASS	Vertical	PK
8	3174.9175	7.78	36.90	44.68	68.20	23.52	PASS	Vertical	PK
9	5018.1518	13.78	36.10	49.88	68.20	18.32	PASS	Vertical	PK
10	7860.9241	-11.27	50.71	39.44	68.20	28.76	PASS	Vertical	PK
11	12424.4283	-4.08	48.52	44.44	68.20	23.76	PASS	Vertical	PK
12	17161.9775	2.70	47.41	50.11	68.20	18.09	PASS	Vertical	PK

Mode:			802.11 ax(HE80) Transmitting			Channel:		5775MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2038.5038	5.29	37.98	43.27	68.20	24.93	PASS	Horizontal	PK
2	3052.2552	7.40	37.98	45.38	68.20	22.82	PASS	Horizontal	PK
3	4658.9659	12.77	34.65	47.42	68.20	20.78	PASS	Horizontal	PK
4	7573.4049	-10.73	50.28	39.55	68.20	28.65	PASS	Horizontal	PK
5	12429.0286	-4.08	49.81	45.73	68.20	22.47	PASS	Horizontal	PK
6	16526.3684	0.65	48.23	48.88	68.20	19.32	PASS	Horizontal	PK
7	2035.7536	5.28	37.59	42.87	68.20	25.33	PASS	Vertical	PK
8	2926.2926	7.06	37.30	44.36	68.20	23.84	PASS	Vertical	PK
9	5015.4015	13.77	35.86	49.63	68.20	18.57	PASS	Vertical	PK
10	7601.0067	-10.54	50.14	39.60	68.20	28.60	PASS	Vertical	PK
11	10302.9202	-6.25	48.57	42.32	68.20	25.88	PASS	Vertical	PK
12	17263.9509	3.69	46.72	50.41	68.20	17.79	PASS	Vertical	PK

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

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz 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.

7.9 Radiated Emission which fall in the restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.407 (b)				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	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
	*(1) 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. (2) For transmitters operating in the 5.25-5.35 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. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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. Note: (i) $EIRP = ((E \cdot d)^2) / 30$ 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: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dB\mu V/m] - 95.2$
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Test Setup:	
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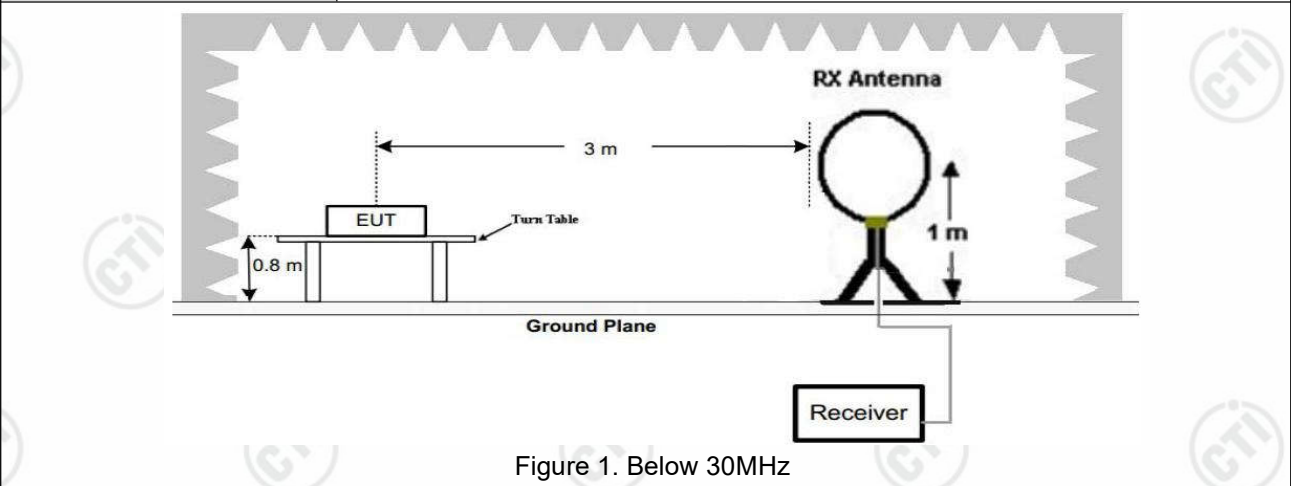


Figure 1. Below 30MHz

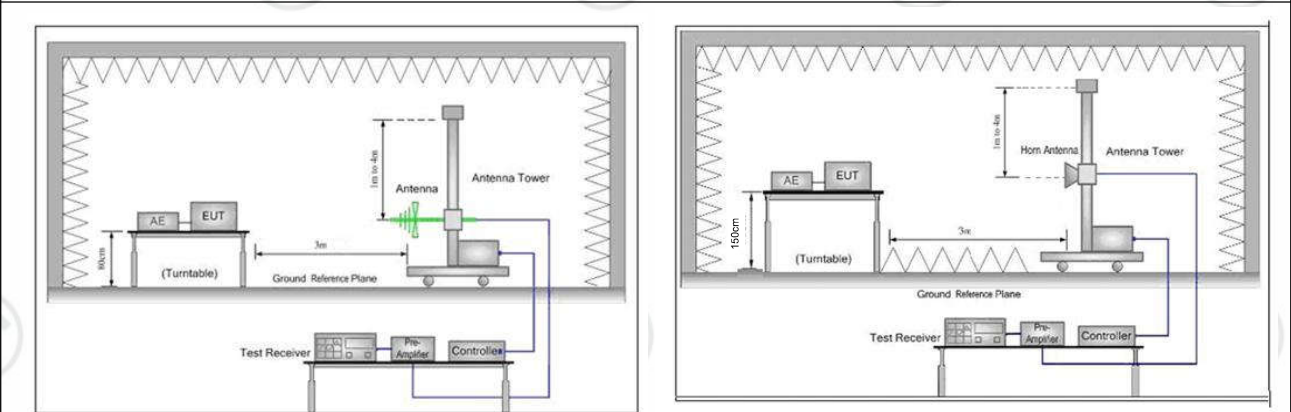


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:	j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz:
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	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. l. 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. m. 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. n. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. o. 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. p. Test the EUT in the lowest channel, the Highest channel q. 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. r. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

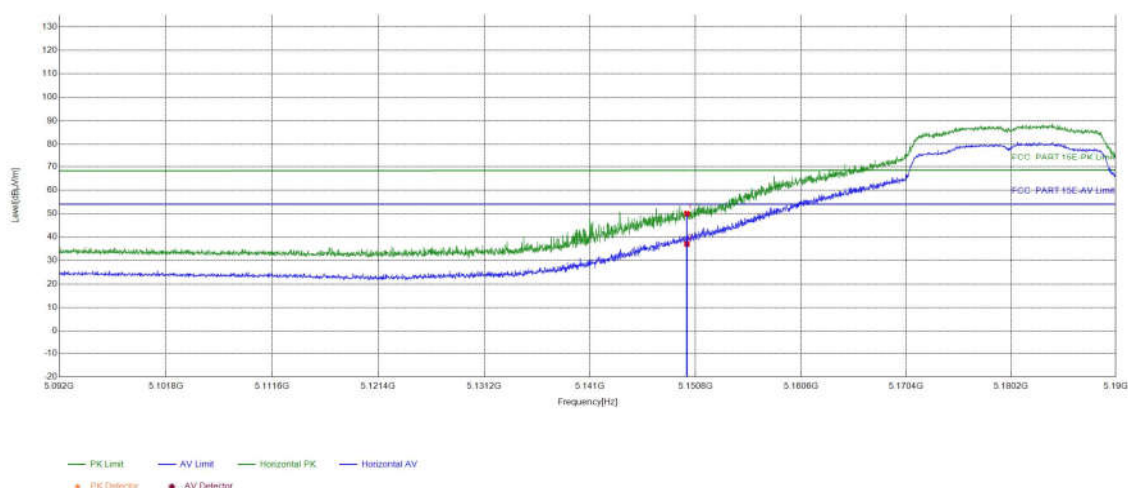
Test Data:

Only the worst case ant1 and ant2 transmit simultaneously was recorded in the report.

MIMO:

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

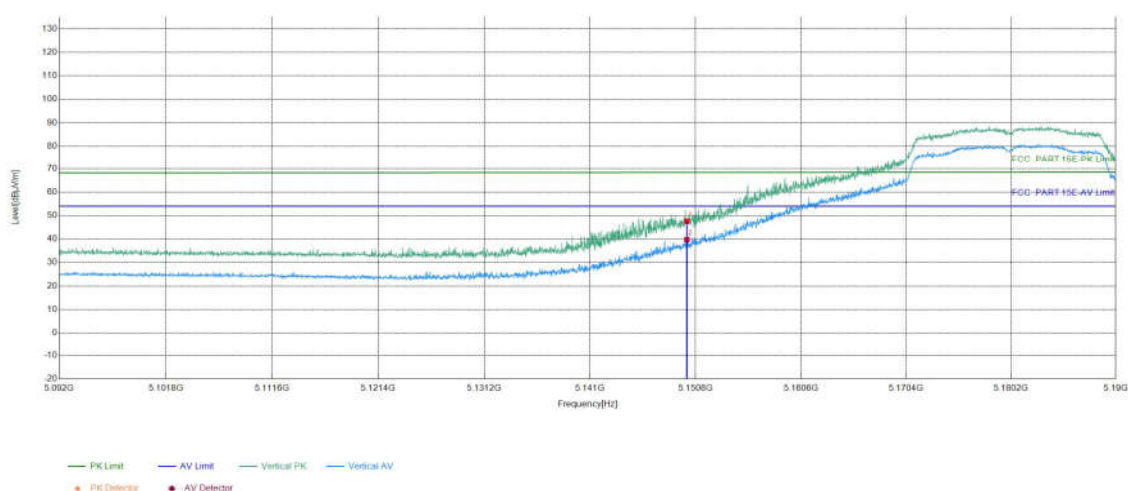
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	65.01	49.93	68.38	18.45	PASS	Horizontal	PK
2	5150	-15.08	52.11	37.03	54.00	16.97	PASS	Horizontal	AV

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

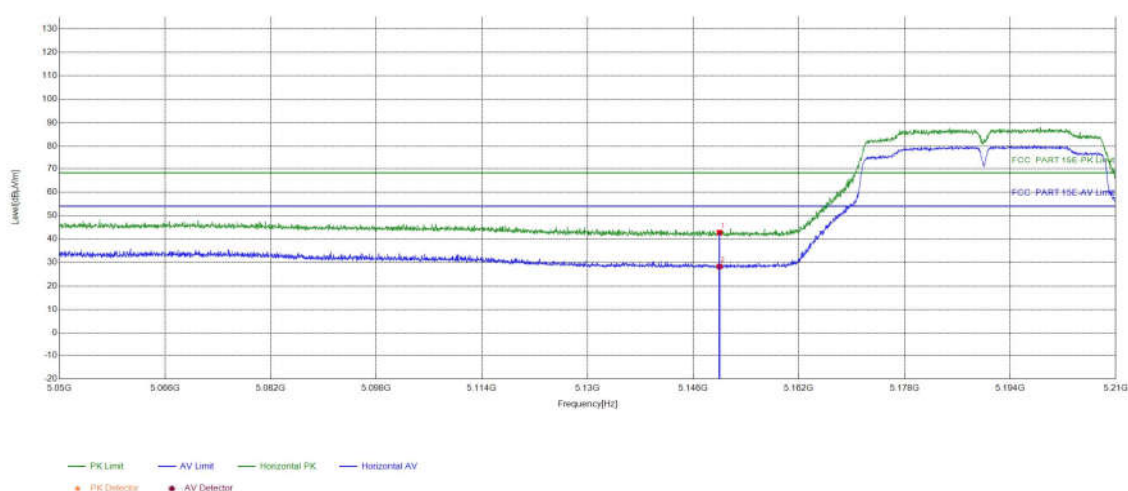
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-15.08	62.63	47.55	68.38	20.83	PASS	Vertical	PK
2	5150	-15.08	54.83	39.75	54.00	14.25	PASS	Vertical	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

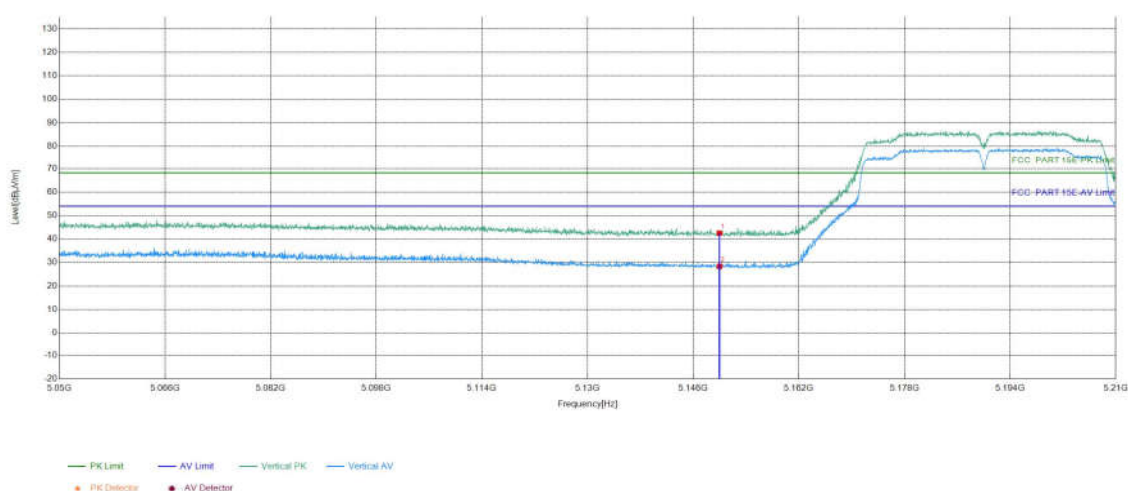
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	30.42	42.77	68.20	25.43	PASS	Horizontal	PK
2	5150	12.35	15.93	28.28	54.00	25.72	PASS	Horizontal	AV

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5190MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

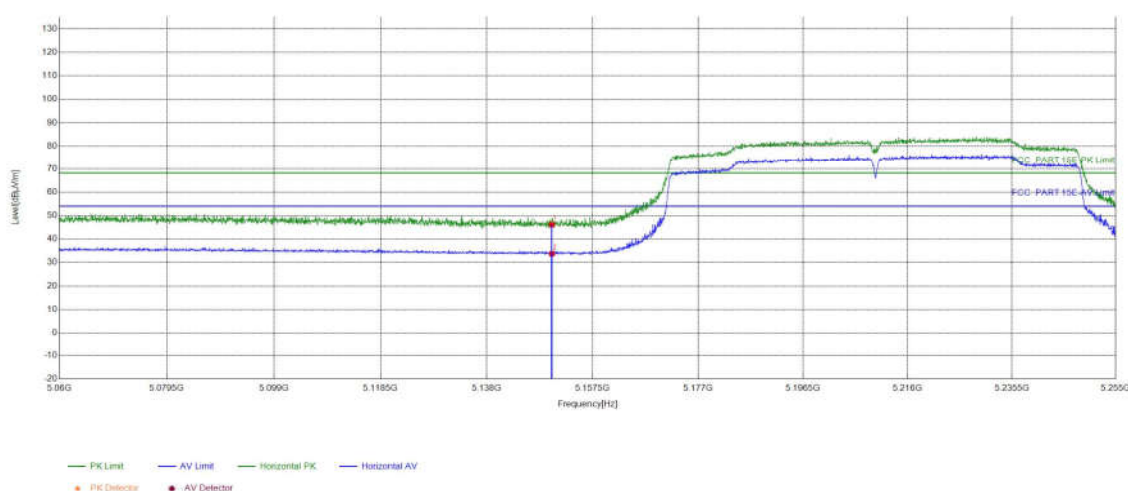
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	30.18	42.53	68.20	25.67	PASS	Vertical	PK
2	5150	12.35	16.02	28.37	54.00	25.63	PASS	Vertical	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5210MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

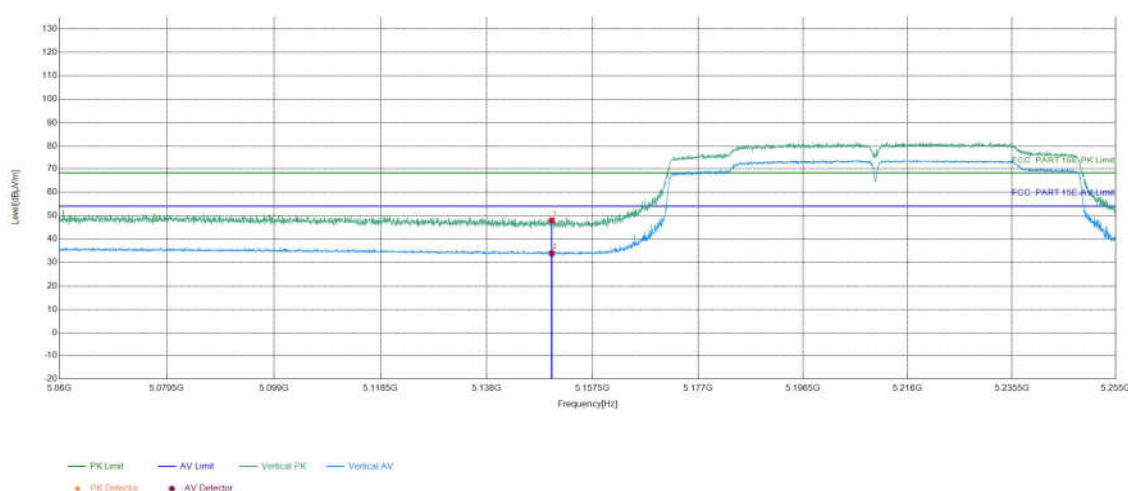
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	33.74	46.09	68.20	22.11	PASS	Horizontal	PK
2	5150	12.35	21.36	33.71	54.00	20.29	PASS	Horizontal	AV

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5210MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

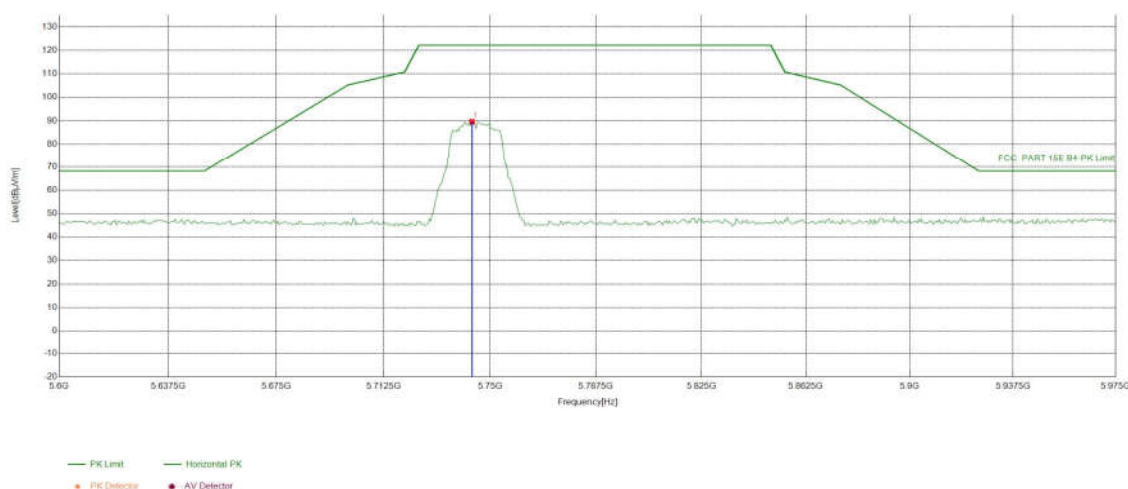
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	12.35	35.64	47.99	68.20	20.21	PASS	Vertical	PK
2	5150	12.35	21.52	33.87	54.00	20.13	PASS	Vertical	AV

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

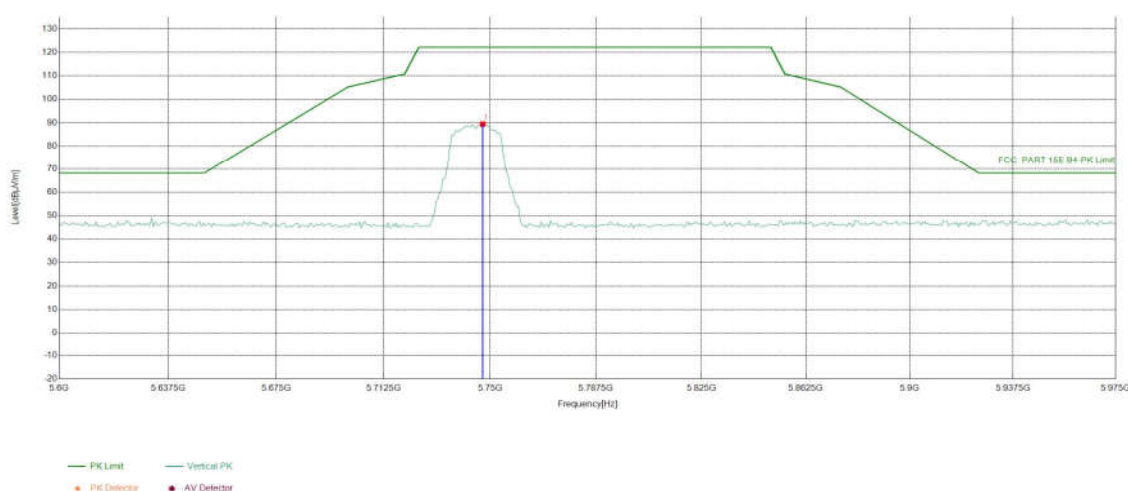
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.617	13.84	75.73	89.57	122.20	32.63	PASS	Horizontal	PK

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

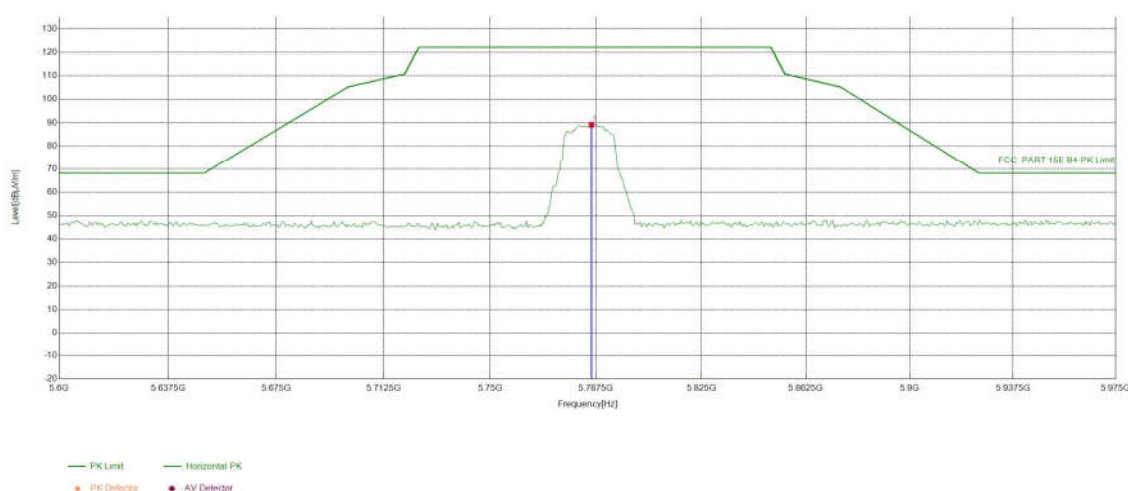
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5747.3717	13.85	75.56	89.41	122.20	32.79	PASS	Vertical	PK

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5785MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

Test Graph

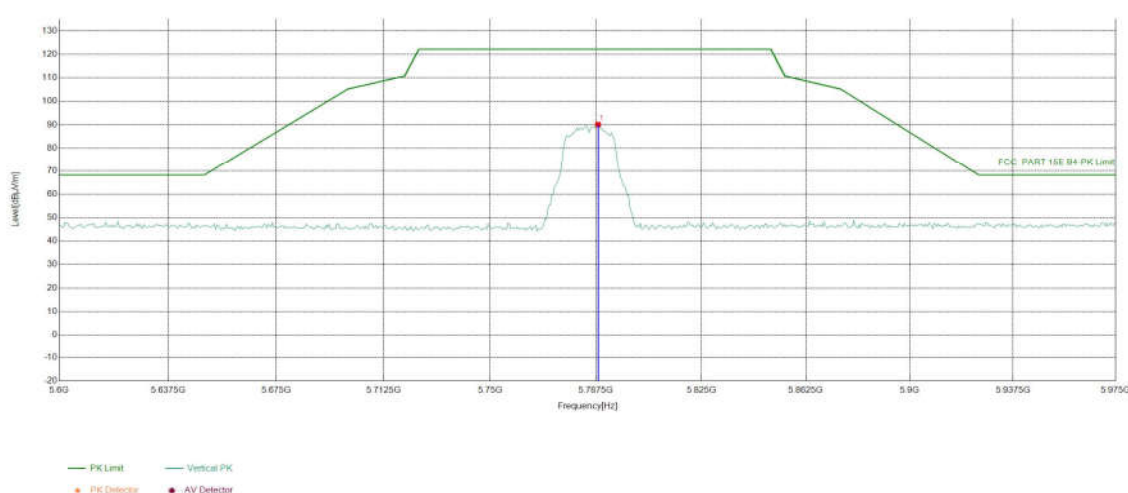


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5785.8573	13.92	75.20	89.12	122.20	33.08	PASS	Horizontal	PK

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5785MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

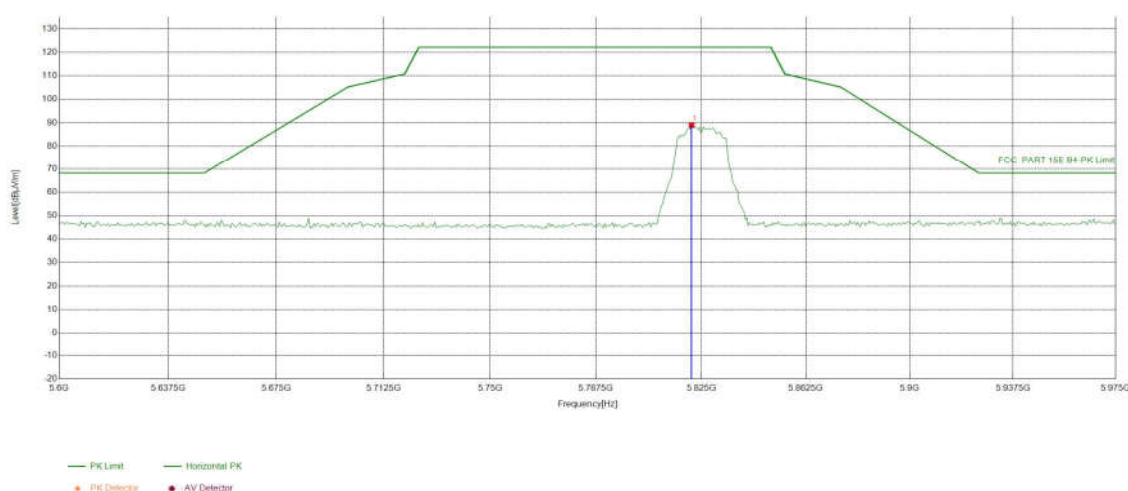
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5788.204	13.92	76.16	90.08	122.20	32.12	PASS	Vertical	PK

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

Test Graph

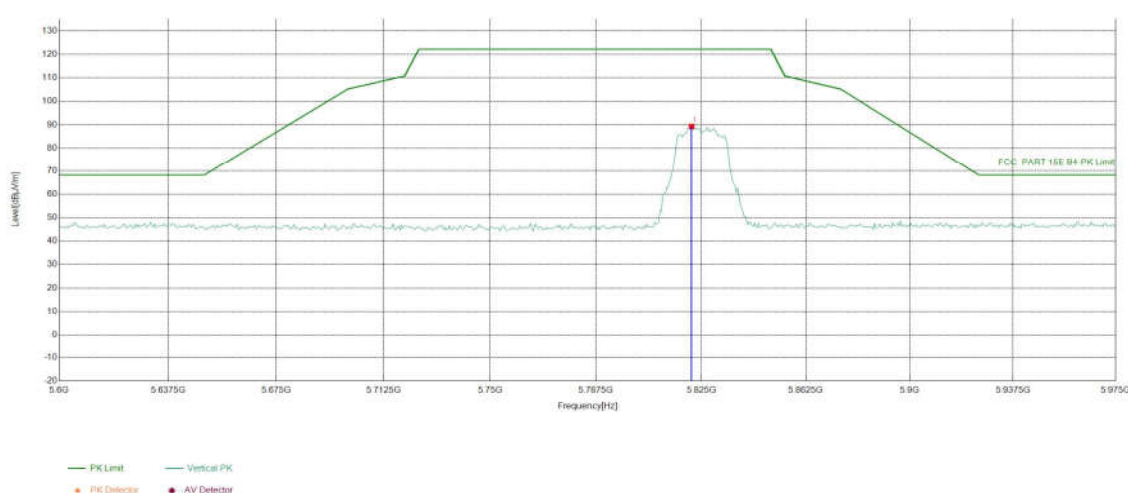


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5821.5269	14.02	74.93	88.95	122.20	33.25	PASS	Horizontal	PK

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

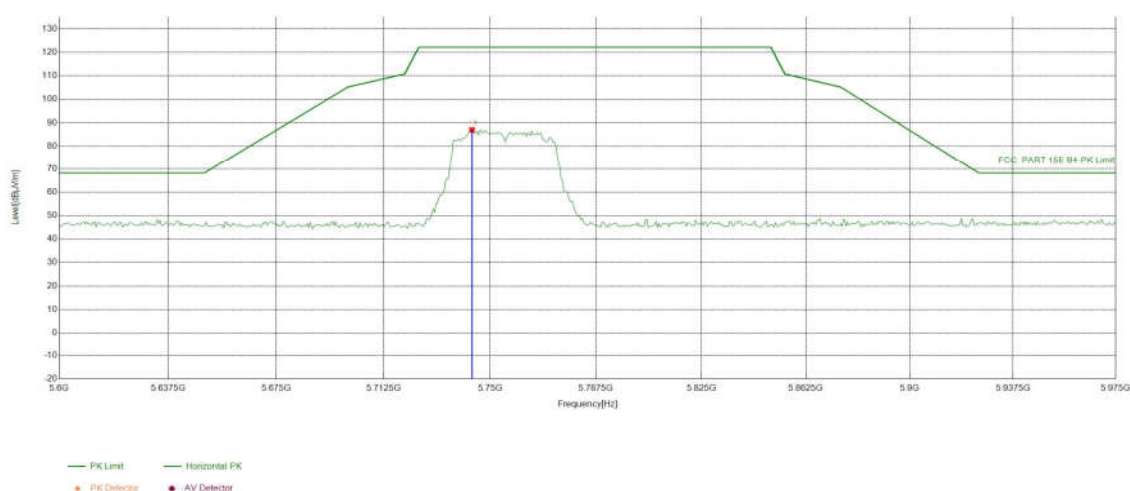
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5821.5269	14.02	75.22	89.24	122.20	32.96	PASS	Vertical	PK

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

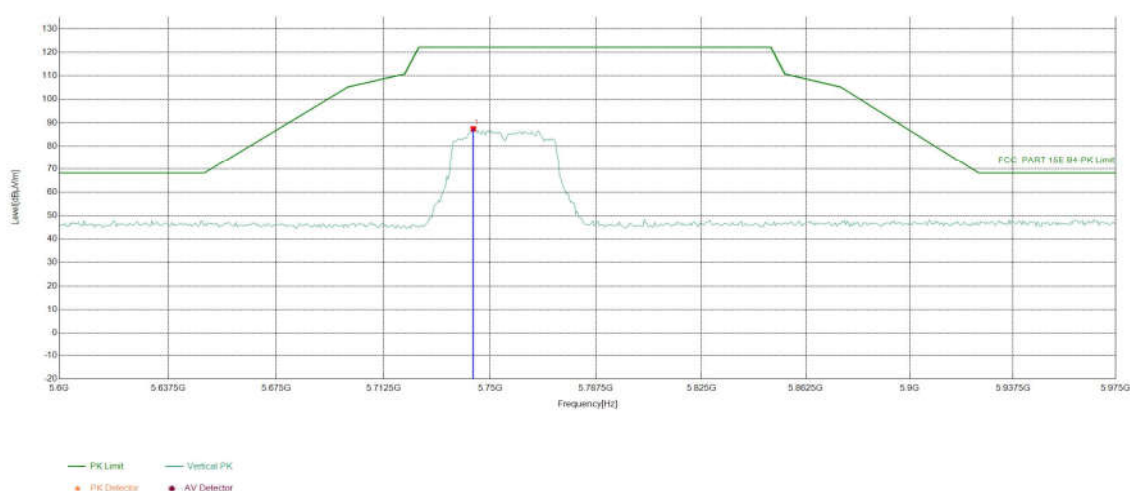
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.617	13.84	73.10	86.94	122.20	35.26	PASS	Horizontal	PK

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

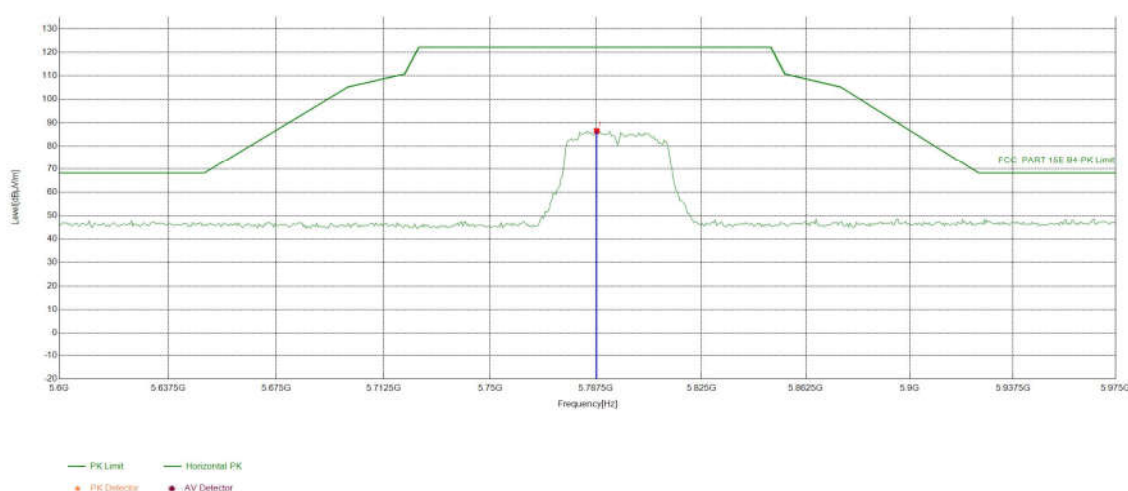
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5744.0864	13.84	73.55	87.39	122.20	34.81	PASS	Vertical	PK

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

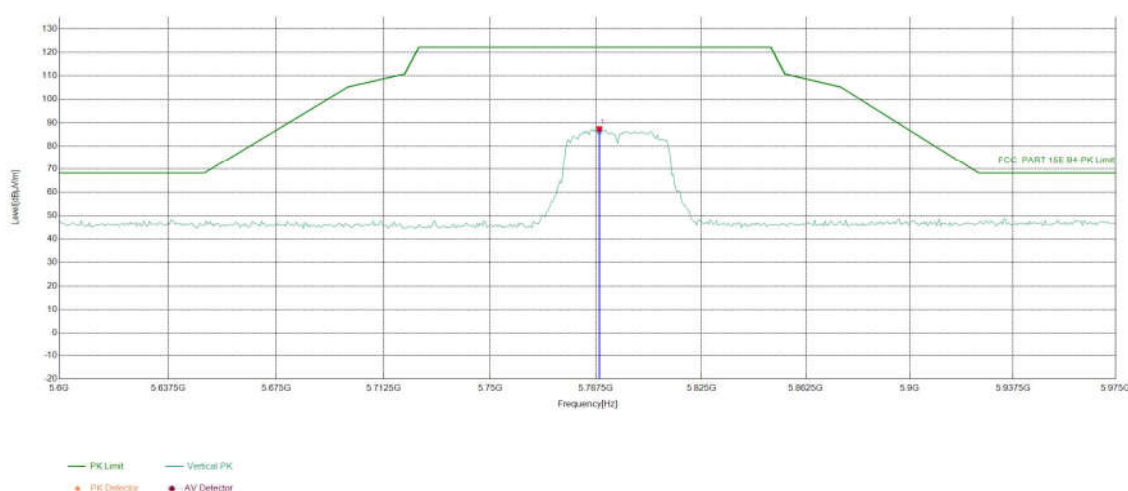
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5787.7347	13.92	72.62	86.54	122.20	35.66	PASS	Horizontal	PK

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

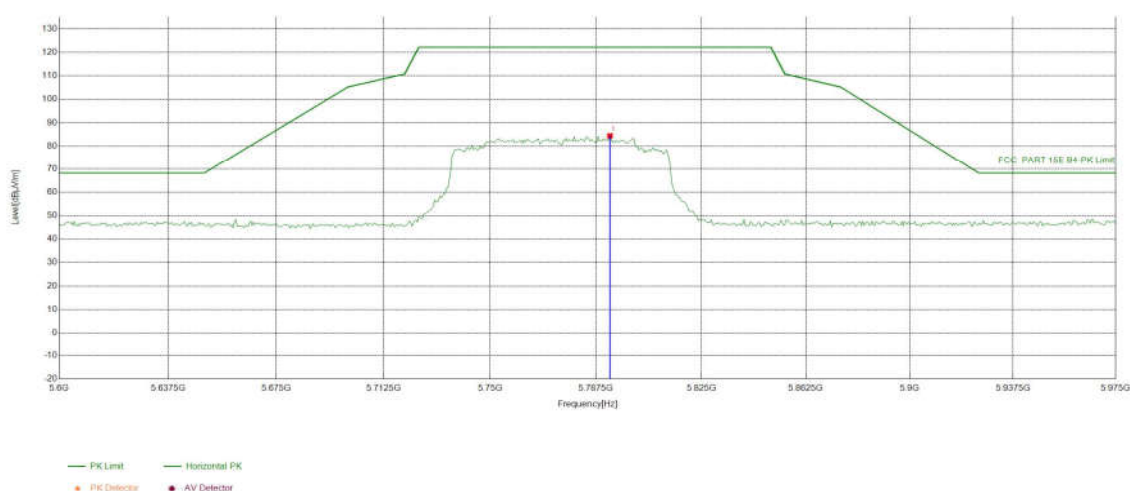
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5788.6733	13.92	73.44	87.36	122.20	34.84	PASS	Vertical	PK

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5775MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

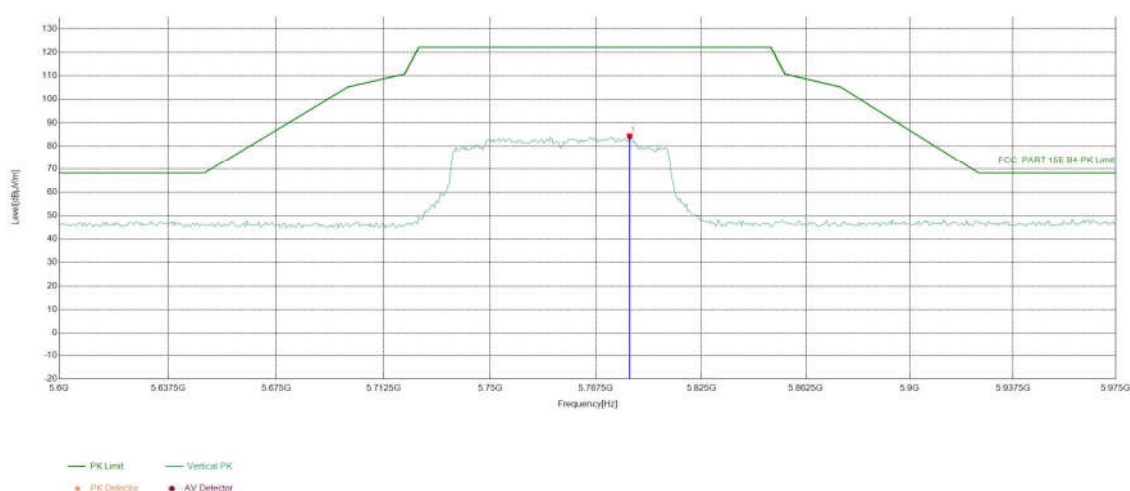
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5792.428	13.93	70.46	84.39	122.20	37.81	PASS	Horizontal	PK

Test_Mode	802.11 ac(VHT80) Transmitting	Test_Frequency	5775MHz
Tset_Engineer	wangzhurun	Test_Date	2023/12/12
Remark	\		

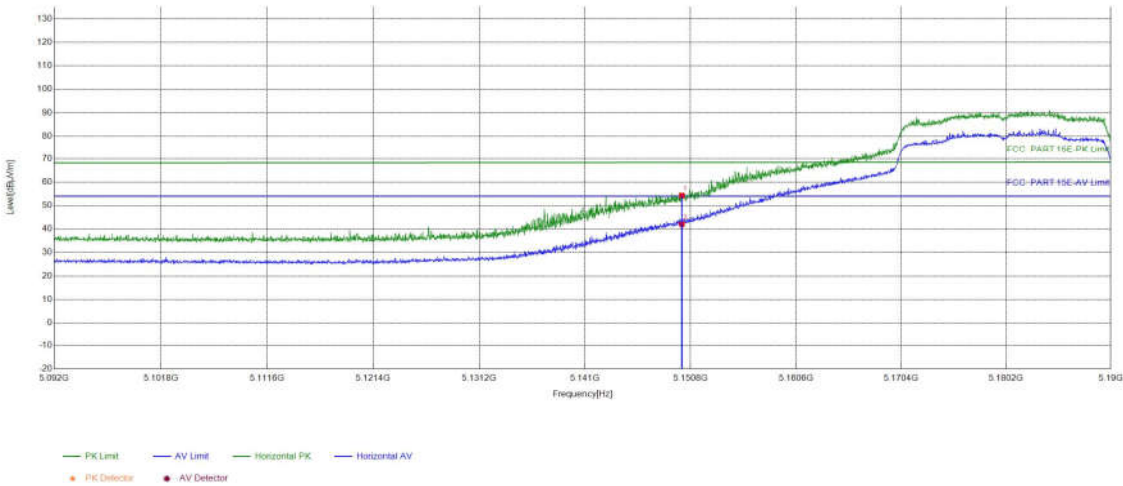
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5799.4681	13.94	70.39	84.33	122.20	37.87	PASS	Vertical	PK

Test_Mode	802.11ax(HE20)Transmittin	Test_Frequency	5180MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

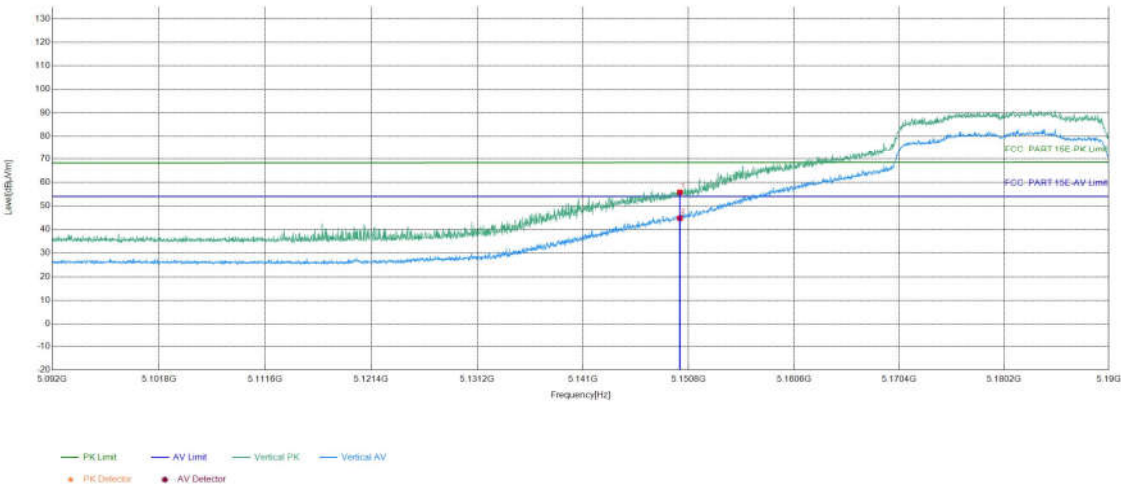
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-12.93	67.22	54.29	68.38	14.09	PASS	Horizontal	PK
2	5150	-12.93	54.95	42.02	54.00	11.98	PASS	Horizontal	AV

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5180MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

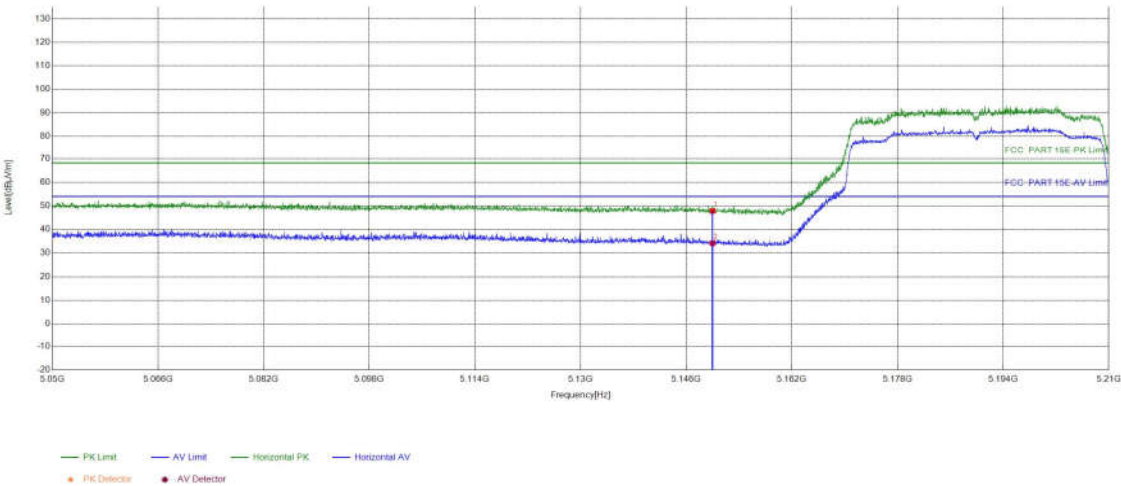
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	-12.93	68.68	55.75	68.38	12.63	PASS	Vertical	PK
2	5150	-12.93	57.72	44.79	54.00	9.21	PASS	Vertical	AV

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5190MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

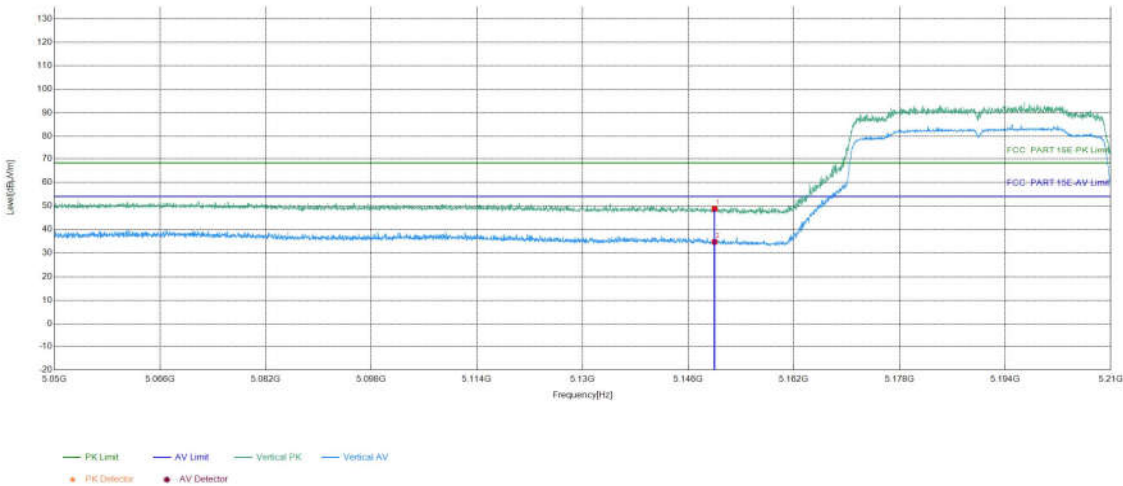
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	17.28	30.53	47.81	68.20	20.39	PASS	Horizontal	PK
2	5150	17.28	16.87	34.15	54.00	19.85	PASS	Horizontal	AV

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5190MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

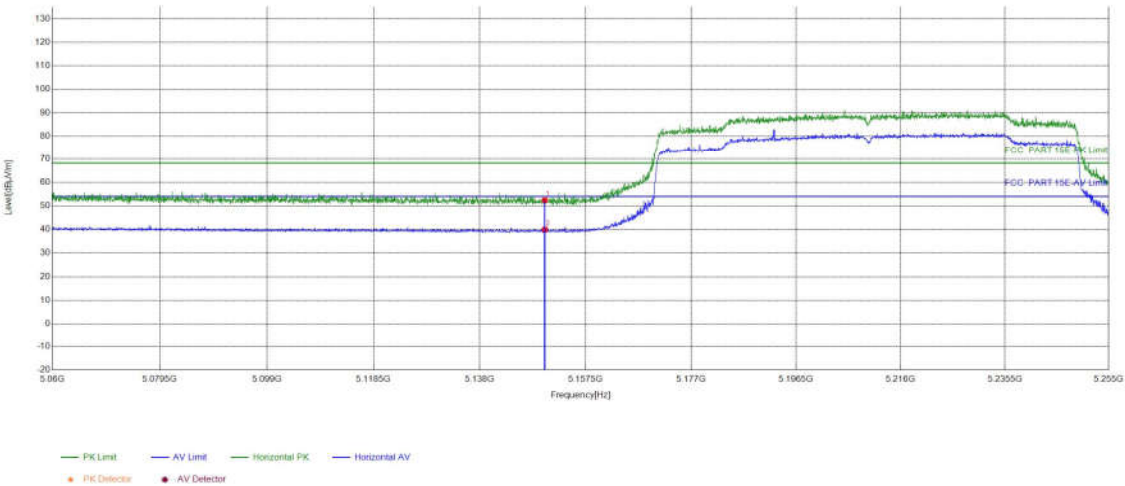
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	17.28	31.42	48.70	68.20	19.50	PASS	Vertical	PK
2	5150	17.28	17.45	34.73	54.00	19.27	PASS	Vertical	AV

Test_Mode	802.11 ax(HE80)Transmittin	Test_Frequency	5210MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

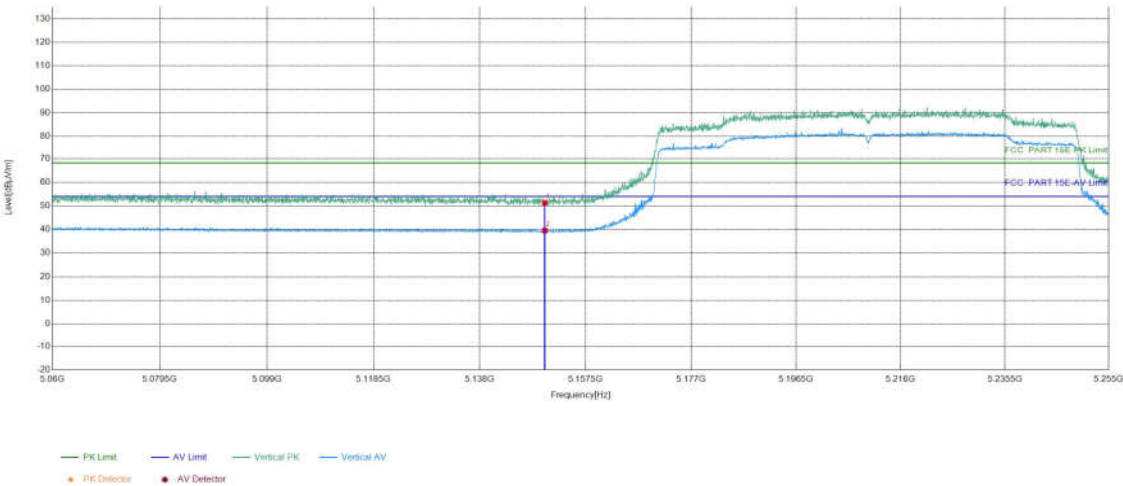
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	17.28	35.06	52.34	68.20	15.86	PASS	Horizontal	PK
2	5150	17.28	22.64	39.92	54.00	14.08	PASS	Horizontal	AV

Test_Mode	802.11ax(HE80)Transmittin	Test_Frequency	5210MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/30
Remark	\		

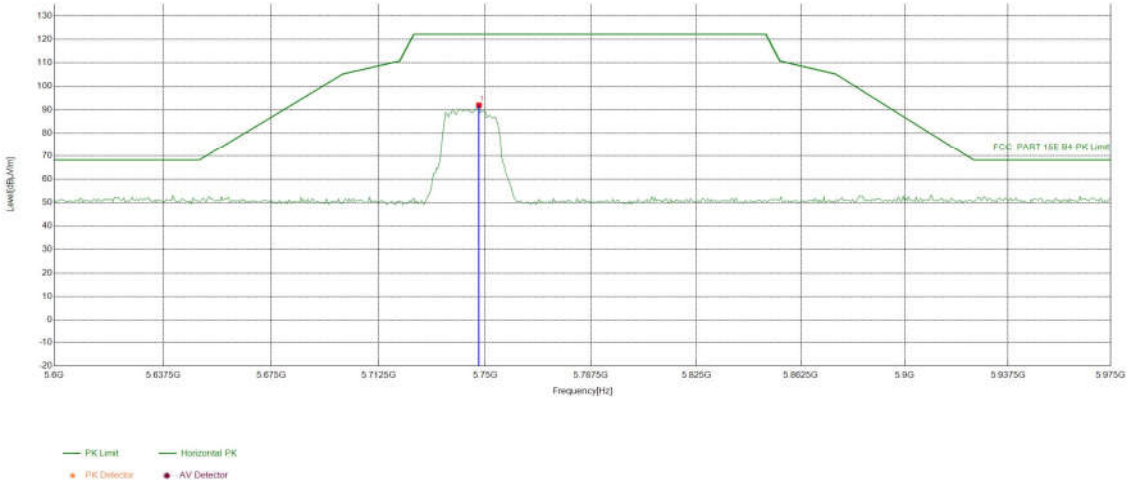
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	17.28	33.95	51.23	68.20	16.97	PASS	Vertical	PK
2	5150	17.28	22.23	39.51	54.00	14.49	PASS	Vertical	AV

Test_Mode	802.11ax(HE20)Transmittin	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

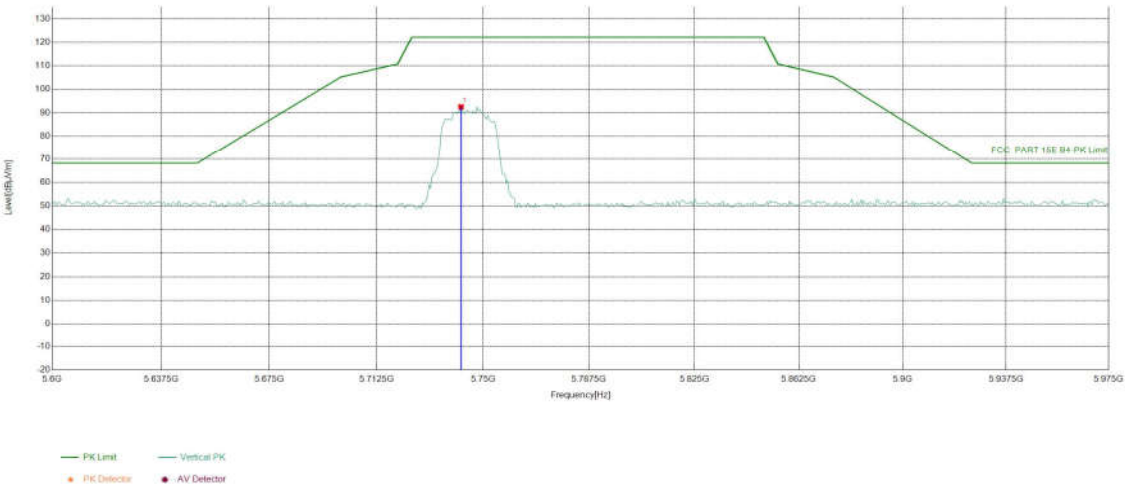
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5747.8411	18.65	73.26	91.91	122.20	30.29	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5745MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

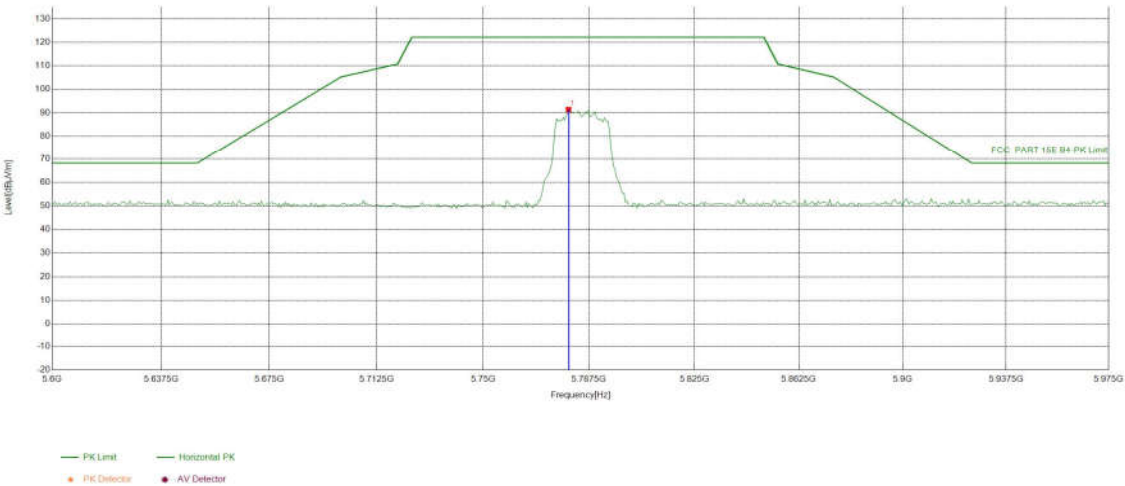
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5742.209	18.63	73.86	92.49	122.20	29.71	PASS	Vertical	PK

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5785MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

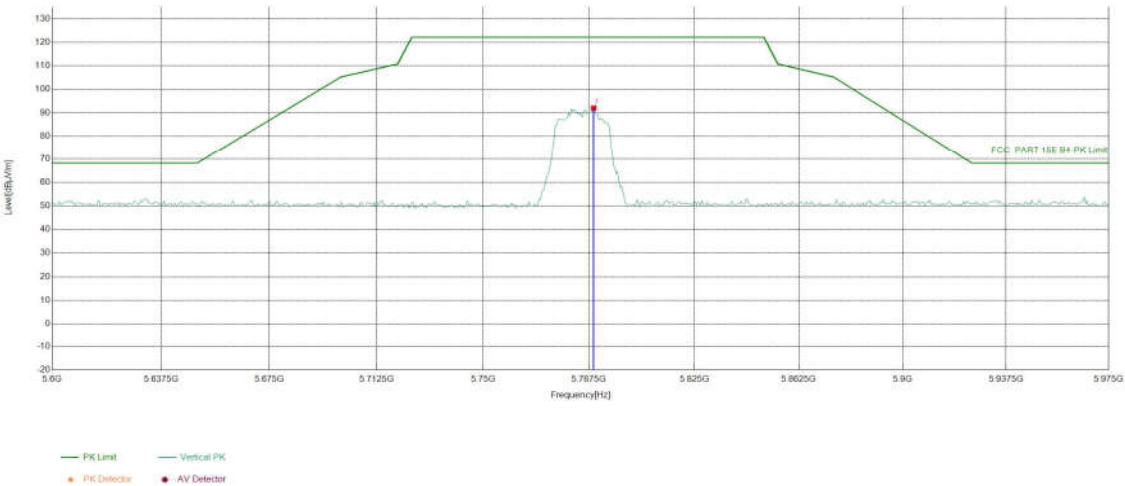
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5780.2253	18.74	72.61	91.35	122.20	30.85	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5785MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

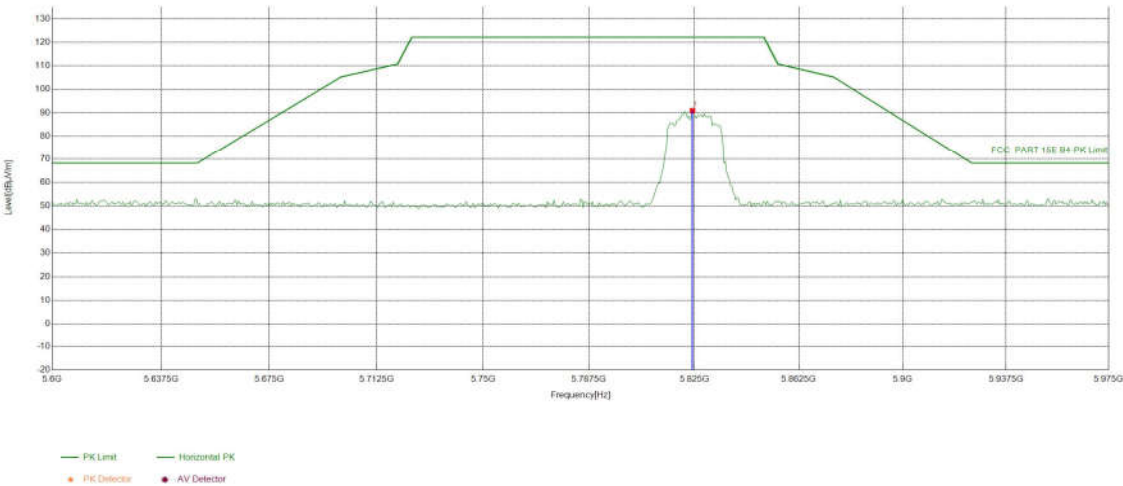
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5789.1427	18.77	73.20	91.97	122.20	30.23	PASS	Vertical	PK

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

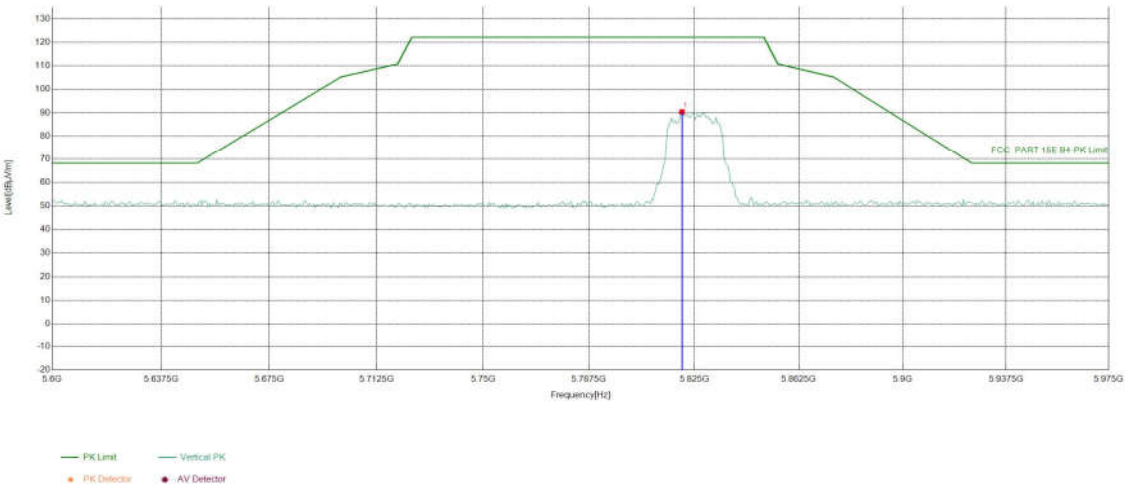
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5824.3429	18.86	72.00	90.86	122.20	31.34	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE20)Transmittin	Test_Frequency	5825MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

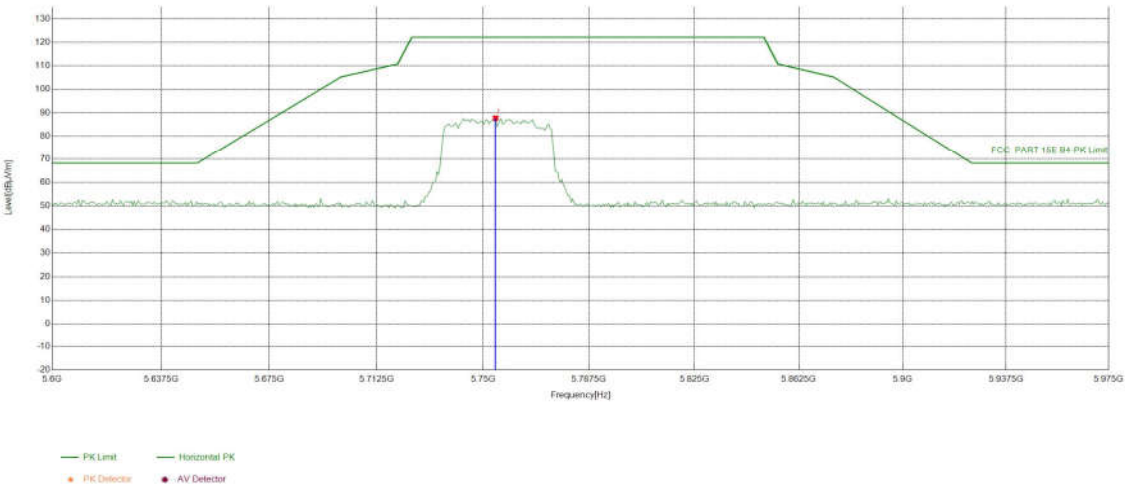
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5820.5882	18.85	71.50	90.35	122.20	31.85	PASS	Vertical	PK

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

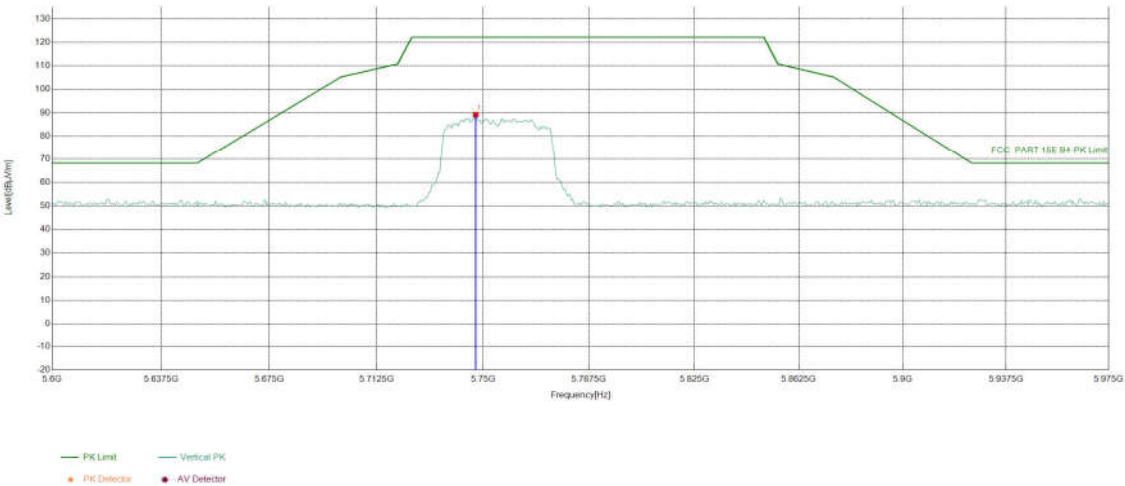
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5754.4118	18.67	69.02	87.69	122.20	34.51	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5755MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

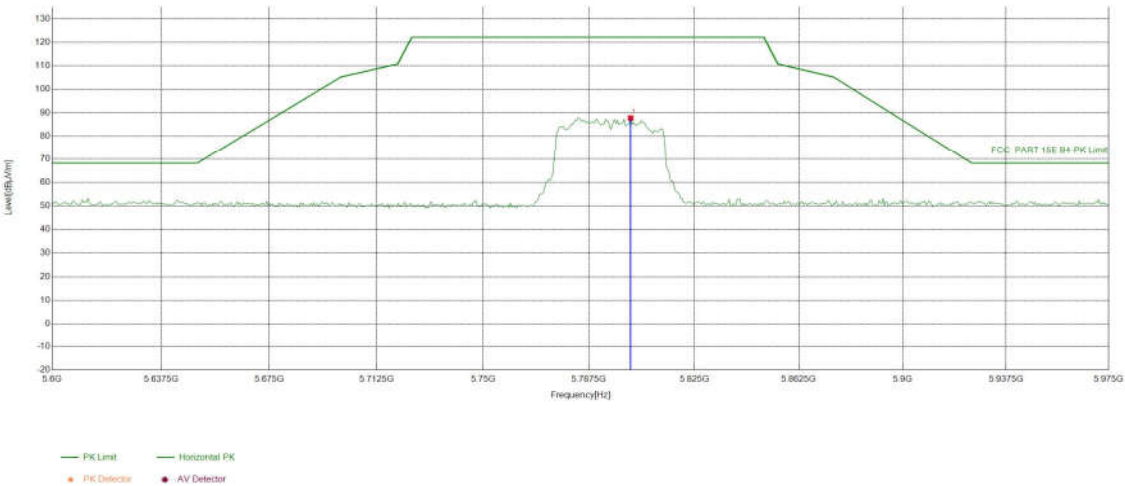
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5747.3717	18.65	70.50	89.15	122.20	33.05	PASS	Vertical	PK

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

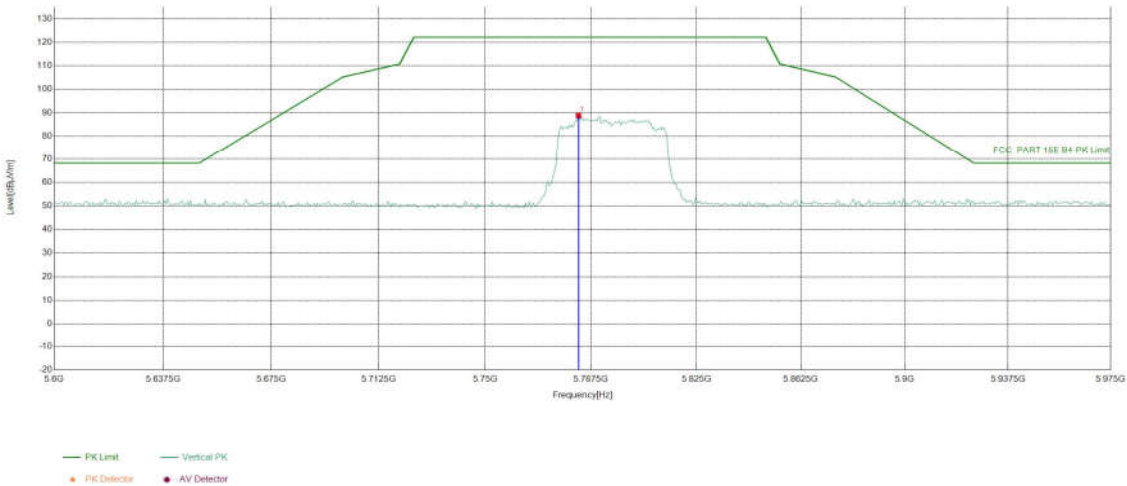
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5802.2841	18.80	68.94	87.74	122.20	34.46	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE40)Transmittin	Test_Frequency	5795MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

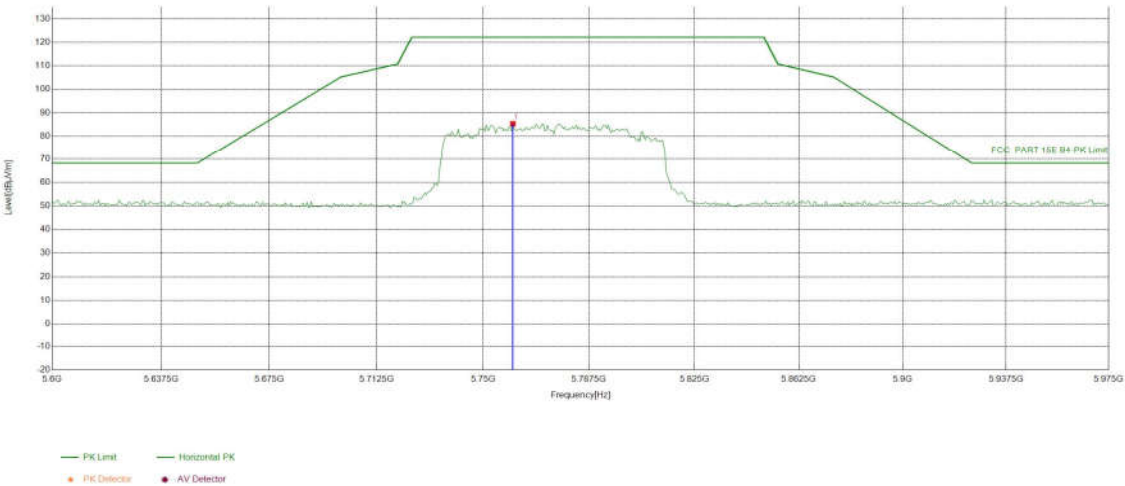
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5783.0413	18.75	70.01	88.76	122.20	33.44	PASS	Vertical	PK

Test_Mode	802.11 ax(HE80)Transmittin	Test_Frequency	5775MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

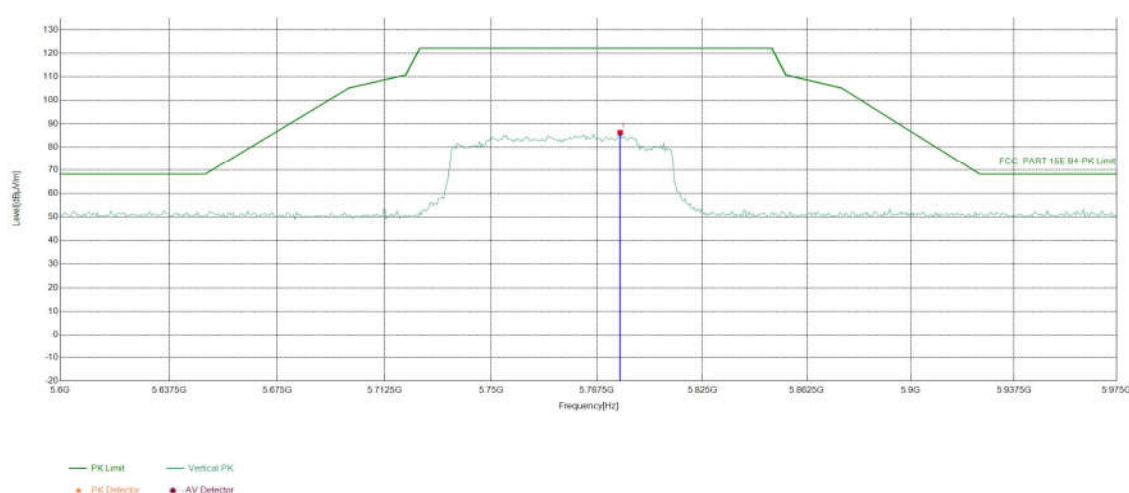
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5760.5131	18.69	66.62	85.31	122.20	36.89	PASS	Horizontal	PK

Test_Mode	802.11 ax(HE80)Transmittin	Test_Frequency	5775MHz
Tset_Engineer	wangzhurun	Test_Date	2024/01/31
Remark	\		

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	5795.7134	18.78	67.42	86.20	122.20	36.00	PASS	Vertical	PK

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

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.

8 Appendix 5G WiFi

Refer to Appendix: 5G WiFi of EED32P81900304