TEST REPORT

Product	:	reMarkable 2
Trade mark	:	reMarkable
Model/Type reference	:	RM110, RM111, RM112, RM113, RM114, RM115, RM116
Serial Number	:	N/A
Report Number	:	EED32R80375502
FCC ID	:	2AMK2-RM110BM
Date of Issue	:	Apr. 16, 2025
Test Standards	:	47 CFR Part 15 Subpart E
Test result	:	PASS

Prepared for:

reMarkable AS

Fridtjof Nansens vei 12, 0369 Oslo, Norway.

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:	Keven Tan	Reviewed by:	Frazer Li
Approved by:	Aaron Ma	Date:	Apr. 16, 2025

Check No.:3716190325

1 Content

2 Version

Version No.	Date	Description
00	Apr. 16, 2025	Original

3 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: Model No.: RM110, RM111, RM112, RM113, RM114, RM115, RM116 Only the model RM110 was tested, The added models and original model: The Electrical circuit design, Layout, components and internal wiring are identical.		

4 General Information

4.1 Client Information

Applicant:	reMarkable AS
Address of Applicant:	Fridtjof Nansens vei 12, 0369 Oslo, Norway.
Manufacturer:	reMarkable AS
Address of Manufacturer:	Fridtjof Nansens vei 12, 0369 Oslo, Norway.

4.2 General Description of EUT

Product Name:	reMarkable 2
Model No.:	RM110, RM111, RM112, RM113, RM114, RM115, RM116
Test Model No.:	RM110
Trade mark:	reMarkable
Product Type:	☐ Mobile ☒ Portable ☐ Fixed Location
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Operating Frequency	U-NII-1: 5150-5250MHz U-NII-3:5745-5825MHz
Antenna Type:	PCB Antenna
Antenna Gain:	U-NII-1: 5150-5250MHz 2.1 dBi U-NII-3:5745-5825MHz 2.6 dBi
Power Supply:	DC 5V
Battery:	DC 3.85V
Test voltage:	DC 5V
Sample Received Date:	Apr. 01, 2025
Sample tested Date:	Apr. 01, 2025 to Apr. 07, 2025

Operation Frequency each of channel

802.11a/802.11n (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

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:

4.3 Test Configuration

EUT Test Software Settings:	
Software:	MobaXterm
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

4.4 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)	55.0 °C
Working Voltage of the EUT:	NV (Normal Voltage)	5 V
	LV (Low Voltage)	4.5 V
	HV (High Voltage)	5.5 V

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-0D8GXYQ2X10	FCC&CE	CTI

4.6 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

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 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%

5 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	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02-262149-CV	09-02-2024	09-01-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	---	---
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026

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	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---

Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	05/22/2022	05/21/2025
Cable line	Fulai(6M)	SF106	5220/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5216/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5217/6A	05/22/2022	05/21/2025

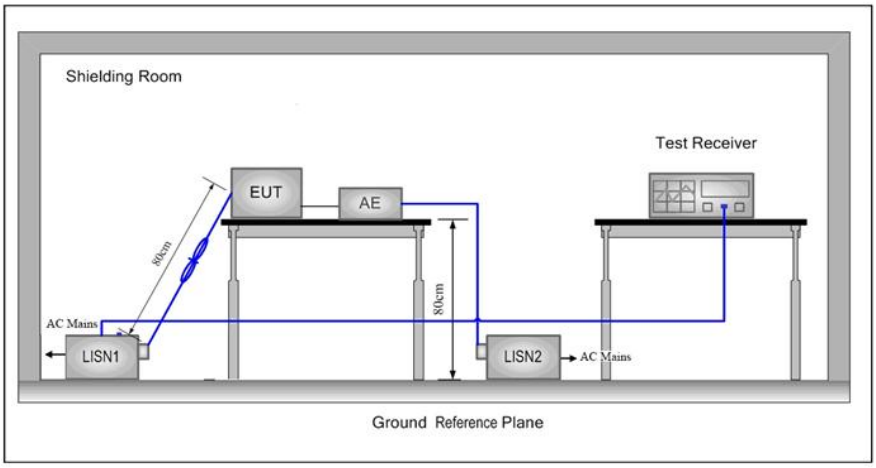
3M full-anechoic Chamber					
Equipment	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. Date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-03-2025	03-02-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Communication test set	R&S	CMW500	102898	01-04-2025	01-03-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

6 Radio Technical Requirements Specification

6.1 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 PCB antenna. The best case gain of the antenna is U-NII-1: 5150-5250MHz 2.1dBi U-NII-3:5745-5825MHz 2.6dBi	

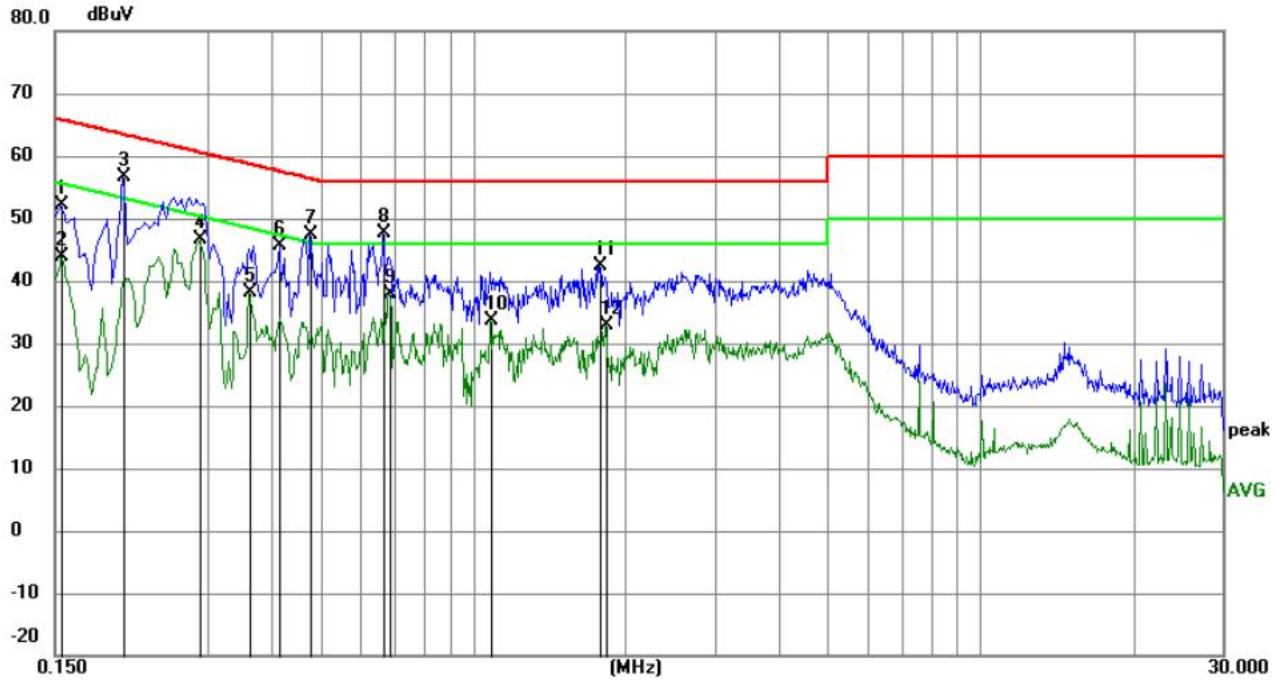
6.2 AC Power Line Conducted Emissions

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 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: 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:

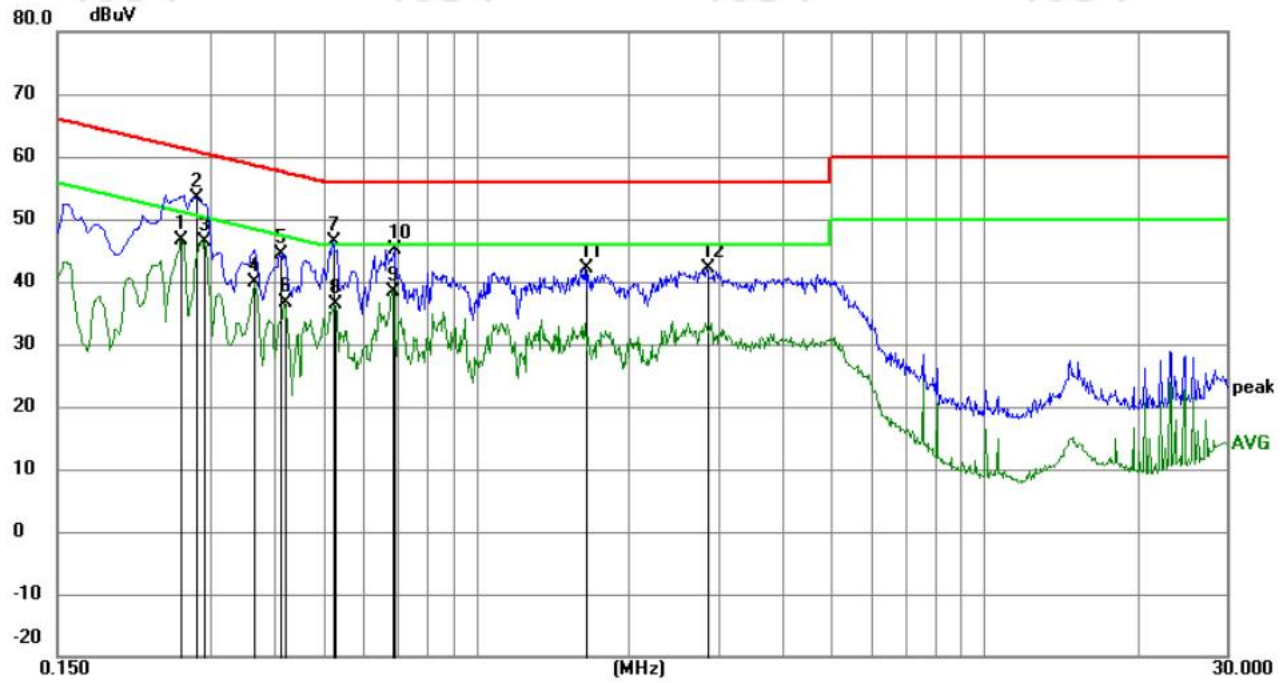


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	41.92	10.28	52.20	65.75	-13.55	QP	
2		0.1545	33.55	10.28	43.83	55.75	-11.92	AVG	
3		0.2040	46.32	10.21	56.53	63.45	-6.92	QP	
4	*	0.2895	36.40	10.14	46.54	50.54	-4.00	AVG	
5		0.3615	28.03	10.11	38.14	48.69	-10.55	AVG	
6		0.4155	35.59	10.09	45.68	57.54	-11.86	QP	
7		0.4785	37.42	10.08	47.50	56.37	-8.87	QP	
8		0.6675	37.53	10.12	47.65	56.00	-8.35	QP	
9		0.6855	27.74	10.13	37.87	46.00	-8.13	AVG	
10		1.0859	23.48	10.18	33.66	46.00	-12.34	AVG	
11		1.7790	32.27	10.17	42.44	56.00	-13.56	QP	
12		1.8240	22.72	10.17	32.89	46.00	-13.11	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:

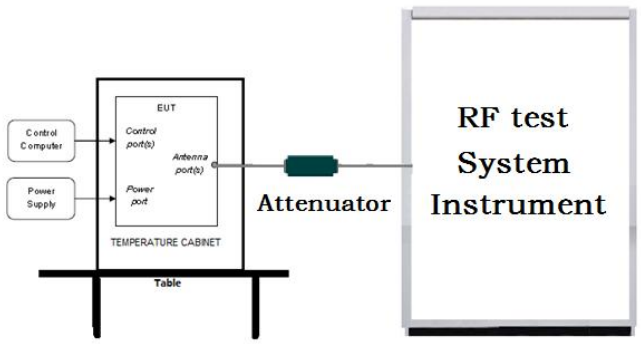


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2625	36.58	10.16	46.74	51.35	-4.61	AVG	
2		0.2805	43.33	10.15	53.48	60.80	-7.32	QP	
3	*	0.2924	36.28	10.14	46.42	50.46	-4.04	AVG	
4		0.3660	29.67	10.10	39.77	48.59	-8.82	AVG	
5		0.4110	34.41	10.09	44.50	57.63	-13.13	QP	
6		0.4200	26.43	10.09	36.52	47.45	-10.93	AVG	
7		0.5235	36.30	10.08	46.38	56.00	-9.62	QP	
8		0.5280	26.18	10.09	36.27	46.00	-9.73	AVG	
9		0.6855	28.37	10.13	38.50	46.00	-7.50	AVG	
10		0.6900	35.11	10.13	45.24	56.00	-10.76	QP	
11		1.6395	32.07	10.17	42.24	56.00	-13.76	QP	
12		2.8500	32.03	10.14	42.17	56.00	-13.83	QP	

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.

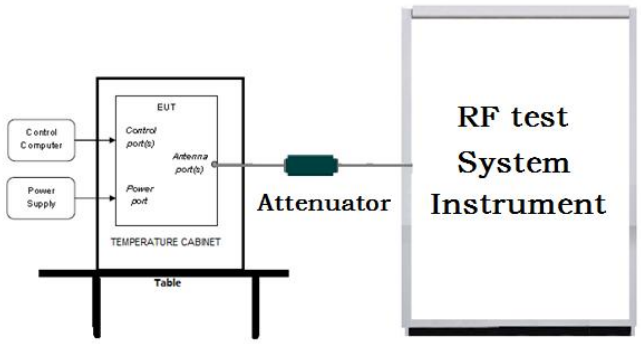
6.3 Maximum Conducted Output Power

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:	

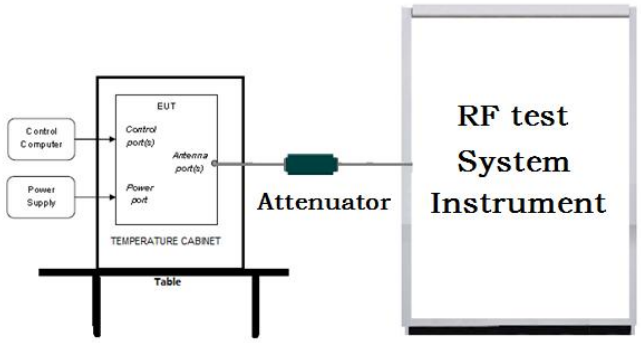
Frequency band (MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz The maximum 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 A

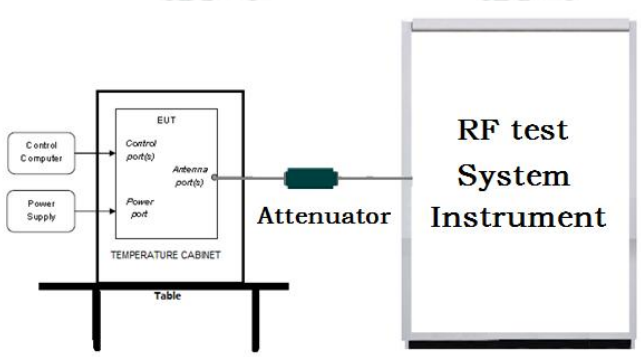
6.4 6dB Emisson Bandwidth

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 A

6.5 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 A

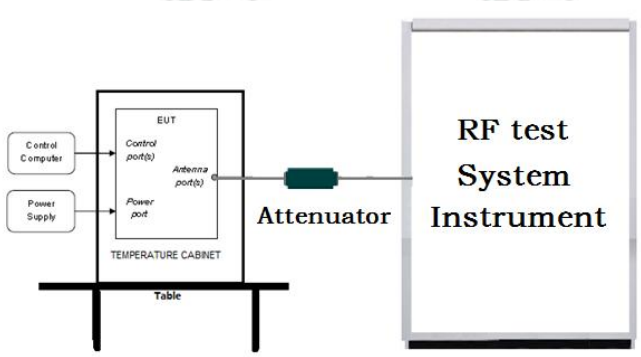
6.6 Maximum Power Spectral Density

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:	1. 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. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level.
Limit:	

Frequency band (MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm 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 A

6.7 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 A

6.8 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*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 Setup:	

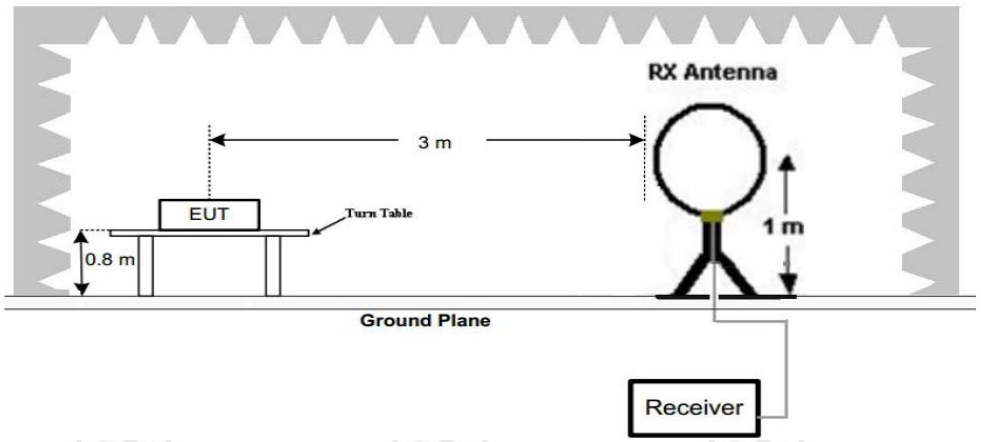


Figure 1. Below 30MHz

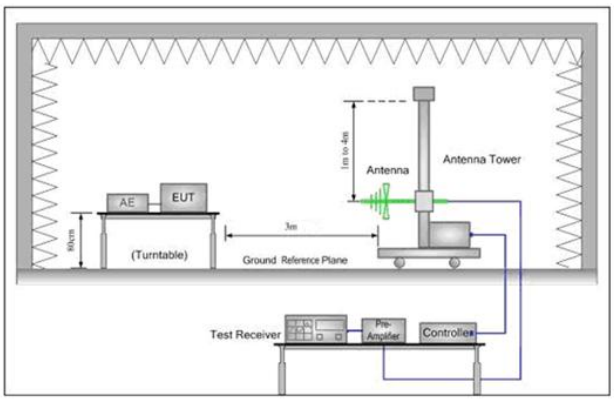


Figure 2. 30MHz to 1GHz

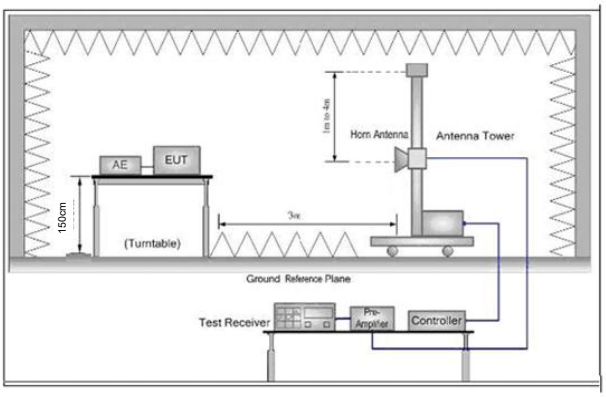


Figure 3. Above 1 GHz

Test Procedure:	a. 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:

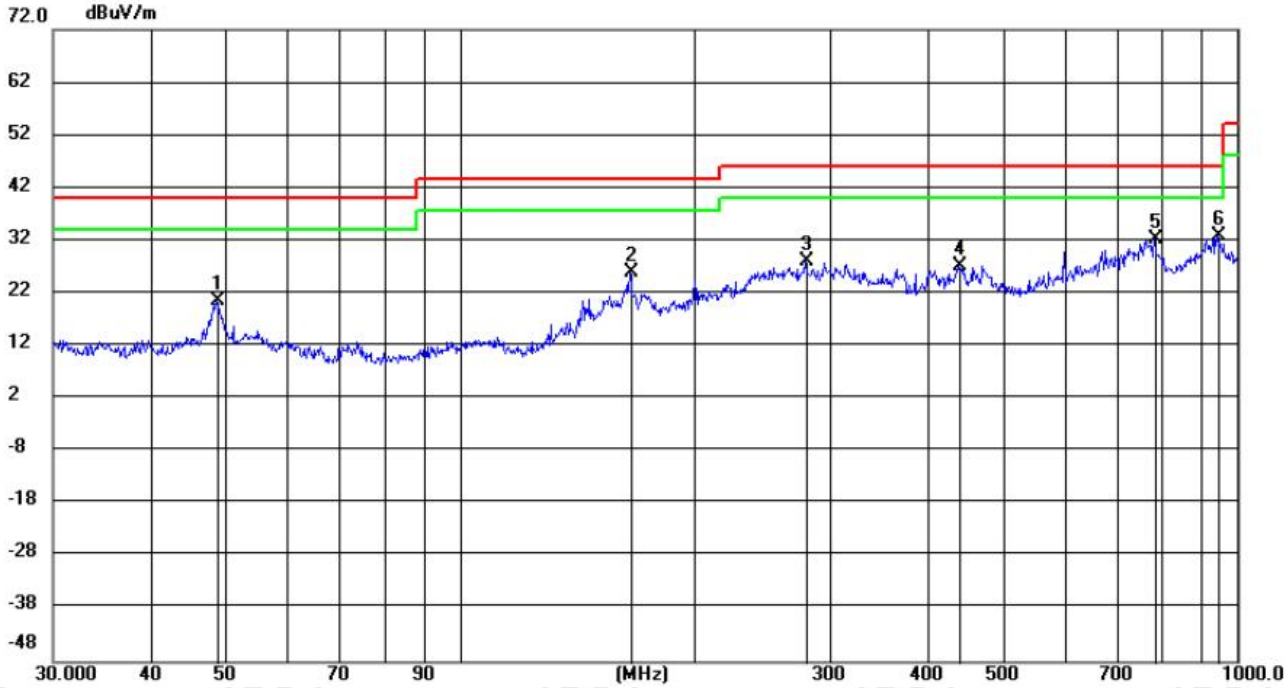
	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel and the highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
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:

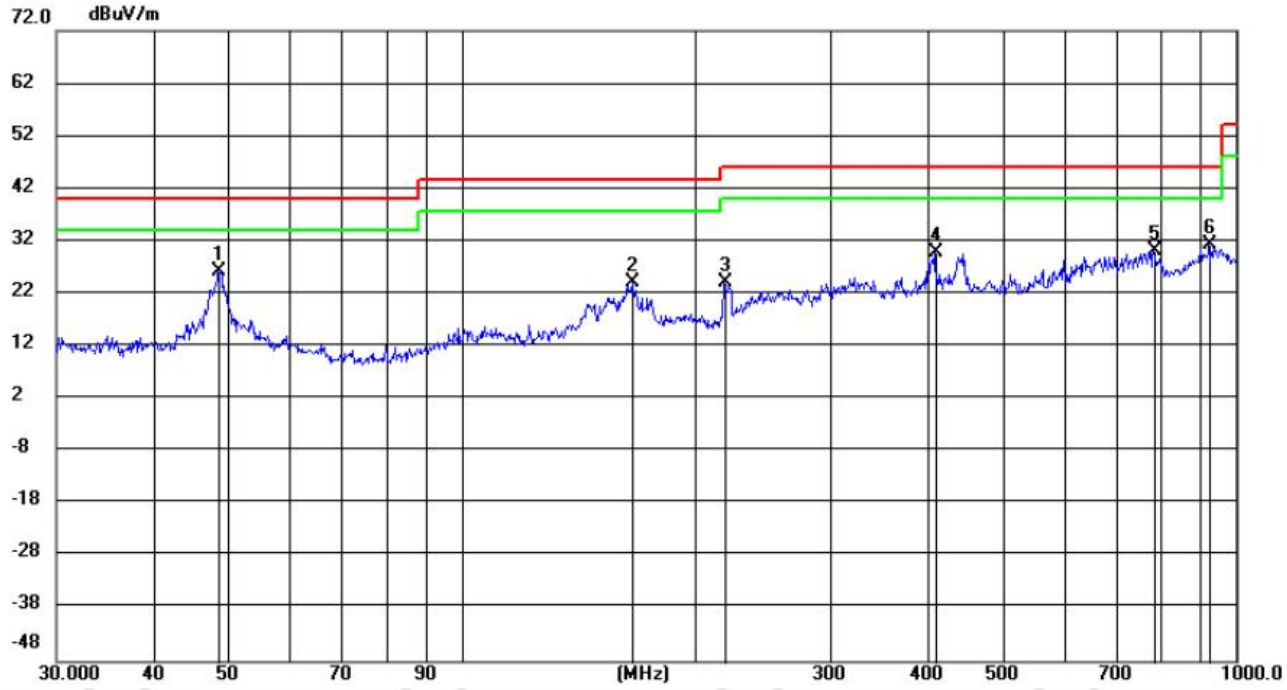
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.8086	6.20	14.38	20.58	40.00	-19.42	QP	199	218	
2		165.6028	14.90	11.10	26.00	43.50	-17.50	QP	199	228	
3		278.6525	12.32	15.77	28.09	46.00	-17.91	QP	100	255	
4		439.8105	7.03	20.08	27.11	46.00	-18.89	QP	199	239	
5		782.6196	7.40	24.82	32.22	46.00	-13.78	QP	199	352	
6	*	944.1147	5.31	27.46	32.77	46.00	-13.23	QP	100	69	

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	48.6037	12.03	14.34	26.37	40.00	-13.63	QP	100	290	
2		166.3303	12.88	11.16	24.04	43.50	-19.46	QP	100	101	
3		218.9601	10.69	13.50	24.19	46.00	-21.81	QP	200	193	
4		408.9460	10.12	19.70	29.82	46.00	-16.18	QP	100	164	
5		783.7182	5.46	24.82	30.28	46.00	-15.72	QP	100	237	
6		922.8393	3.89	27.39	31.28	46.00	-14.72	QP	100	237	

Transmitter Emission above 1GHz

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 a mode was the worst case, only the worst case was recorded in the report.

Mode:		802.11 a Transmitting				Channel:		5180MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1144.9858	10.17	36.75	46.92	74.00	27.08	PASS	Horizontal	PK
2	1847.9139	15.57	35.46	51.03	74.00	22.97	PASS	Horizontal	PK
3	2446.9979	15.84	35.90	51.74	74.00	22.26	PASS	Horizontal	PK
4	7407.3954	-4.68	49.54	44.86	74.00	29.14	PASS	Horizontal	PK
5	11173.8337	3.18	47.36	50.54	74.00	23.46	PASS	Horizontal	PK
6	14997.7749	10.13	40.85	50.98	74.00	23.02	PASS	Horizontal	PK
7	1130.6852	9.71	37.33	47.04	74.00	26.96	PASS	Vertical	PK
8	1852.3141	15.63	34.17	49.80	74.00	24.20	PASS	Vertical	PK
9	2426.7571	16.07	35.06	51.13	74.00	22.87	PASS	Vertical	PK
10	9070.9535	-0.24	47.72	47.48	74.00	26.52	PASS	Vertical	PK
11	11195.1098	4.21	45.21	49.42	74.00	24.58	PASS	Vertical	PK
12	14249.6625	12.65	39.07	51.72	74.00	22.28	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5200MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1154.2262	10.21	36.70	46.91	74.00	27.09	PASS	Horizontal	PK
2	1804.3522	14.58	34.49	49.07	74.00	24.93	PASS	Horizontal	PK
3	2294.3118	15.09	35.91	51.00	74.00	23.00	PASS	Horizontal	PK
4	7611.5306	-3.54	48.20	44.66	74.00	29.34	PASS	Horizontal	PK
5	11254.9127	4.74	46.15	50.89	74.00	23.11	PASS	Horizontal	PK
6	14251.3876	12.59	38.92	51.51	74.00	22.49	PASS	Horizontal	PK
7	1140.3656	10.03	36.38	46.41	74.00	27.59	PASS	Vertical	PK
8	1863.0945	15.68	34.34	50.02	74.00	23.98	PASS	Vertical	PK
9	2566.2426	16.09	35.98	52.07	74.00	21.93	PASS	Vertical	PK
10	7590.8295	-3.45	47.67	44.22	74.00	29.78	PASS	Vertical	PK
11	10602.2551	4.81	44.81	49.62	74.00	24.38	PASS	Vertical	PK
12	15506.6753	10.92	39.78	50.70	74.00	23.30	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1192.2877	9.12	37.50	46.62	74.00	27.38	PASS	Horizontal	PK
2	1874.535	15.74	34.84	50.58	74.00	23.42	PASS	Horizontal	PK
3	2418.1767	16.17	35.79	51.96	74.00	22.04	PASS	Horizontal	PK
4	7773.6887	-3.65	48.77	45.12	74.00	28.88	PASS	Horizontal	PK
5	11215.8108	4.61	46.27	50.88	74.00	23.12	PASS	Horizontal	PK
6	14251.9626	12.54	39.46	52.00	74.00	22.00	PASS	Horizontal	PK
7	1183.7073	9.37	36.50	45.87	74.00	28.13	PASS	Vertical	PK
8	1850.994	15.62	35.66	51.28	74.00	22.72	PASS	Vertical	PK
9	2572.1829	16.04	35.42	51.46	74.00	22.54	PASS	Vertical	PK
10	7598.8799	-3.15	48.21	45.06	74.00	28.94	PASS	Vertical	PK
11	11246.8623	4.96	45.18	50.14	74.00	23.36	PASS	Vertical	PK
12	14250.8125	12.65	39.10	51.75	74.00	22.25	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1143.0143	10.09	36.97	47.06	74.00	26.94	PASS	Horizontal	PK
2	1929.593	16.51	34.70	51.21	74.00	22.79	PASS	Horizontal	PK
3	2578.1078	15.84	35.41	51.25	74.00	22.75	PASS	Horizontal	PK
4	7852.4902	-3.11	48.13	45.02	74.00	28.98	PASS	Horizontal	PK
5	10289.886	3.01	45.92	48.93	74.00	25.07	PASS	Horizontal	PK
6	15149.3433	11.34	40.78	52.12	74.00	21.88	PASS	Horizontal	PK
7	1141.9142	10.05	36.74	46.79	74.00	27.21	PASS	Vertical	PK
8	1921.8922	16.28	34.82	51.10	74.00	22.90	PASS	Vertical	PK
9	2397.6898	16.25	34.68	50.93	74.00	23.07	PASS	Vertical	PK
10	7859.3906	-3.10	47.16	44.06	74.00	29.94	PASS	Vertical	PK
11	10602.7068	4.78	45.66	50.44	74.00	23.56	PASS	Vertical	PK
12	15252.8502	11.50	39.54	51.04	74.00	22.96	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5745MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1143.0143	10.09	36.97	47.06	74.00	26.94	PASS	Horizontal	PK
2	1929.593	16.51	34.70	51.21	74.00	22.79	PASS	Horizontal	PK
3	2578.1078	15.84	35.41	51.25	74.00	22.75	PASS	Horizontal	PK
4	7852.4902	-3.11	48.13	45.02	74.00	28.98	PASS	Horizontal	PK
5	10289.886	3.01	45.92	48.93	74.00	25.07	PASS	Horizontal	PK
6	15149.3433	11.34	40.78	52.12	74.00	21.88	PASS	Horizontal	PK
7	1141.9142	10.05	36.74	46.79	74.00	27.21	PASS	Vertical	PK
8	1921.8922	16.28	34.82	51.10	74.00	22.90	PASS	Vertical	PK
9	2397.6898	16.25	34.68	50.93	74.00	23.07	PASS	Vertical	PK
10	7859.3906	-3.10	47.16	44.06	74.00	29.94	PASS	Vertical	PK
11	10602.7068	4.78	45.66	50.44	74.00	23.56	PASS	Vertical	PK
12	15252.8502	11.50	39.54	51.04	74.00	22.96	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5785MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1124.3124	9.42	36.98	46.40	74.00	27.60	PASS	Horizontal	PK
2	1894.3894	15.64	35.46	51.10	74.00	22.90	PASS	Horizontal	PK
3	2542.3542	16.17	34.93	51.10	74.00	22.90	PASS	Horizontal	PK
4	7435.3957	-4.67	49.55	44.88	74.00	29.12	PASS	Horizontal	PK
5	10610.374	4.34	45.64	49.98	74.00	24.02	PASS	Horizontal	PK
6	15114.0743	11.28	40.63	51.91	74.00	22.09	PASS	Horizontal	PK
7	1158.9659	10.08	36.37	46.45	74.00	27.55	PASS	Vertical	PK
8	1842.6843	15.27	34.27	49.54	74.00	24.46	PASS	Vertical	PK
9	2293.1793	15.11	35.15	50.26	74.00	23.74	PASS	Vertical	PK
10	7892.3595	-3.07	48.60	45.53	74.00	28.47	PASS	Vertical	PK
11	11231.4154	4.79	45.80	50.59	74.00	23.41	PASS	Vertical	PK
12	14748.3499	10.92	40.25	51.17	74.00	22.83	PASS	Vertical	PK

Mode:		802.11 a Transmitting				Channel:		5825MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1138.6139	9.93	36.20	46.13	74.00	27.87	PASS	Horizontal	PK
2	1849.2849	15.46	34.62	50.08	74.00	23.92	PASS	Horizontal	PK
3	2540.154	16.14	35.57	51.71	74.00	22.29	PASS	Horizontal	PK
4	7586.4391	-3.60	48.94	45.34	74.00	28.66	PASS	Horizontal	PK
5	11236.7825	4.84	45.84	50.68	74.00	23.32	PASS	Horizontal	PK
6	15091.0727	10.02	41.54	51.56	74.00	22.44	PASS	Horizontal	PK
7	1162.8163	9.97	36.30	46.27	74.00	27.73	PASS	Vertical	PK
8	1808.0308	14.33	34.79	49.12	74.00	24.88	PASS	Vertical	PK
9	2590.209	15.67	35.70	51.37	74.00	22.63	PASS	Vertical	PK
10	7567.2712	-4.32	48.87	44.55	74.00	29.45	PASS	Vertical	PK
11	10496.8998	3.58	46.01	49.59	74.00	24.41	PASS	Vertical	PK
12	14999.8333	10.74	40.06	50.80	74.00	23.20	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.

6.9 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*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 Setup:	

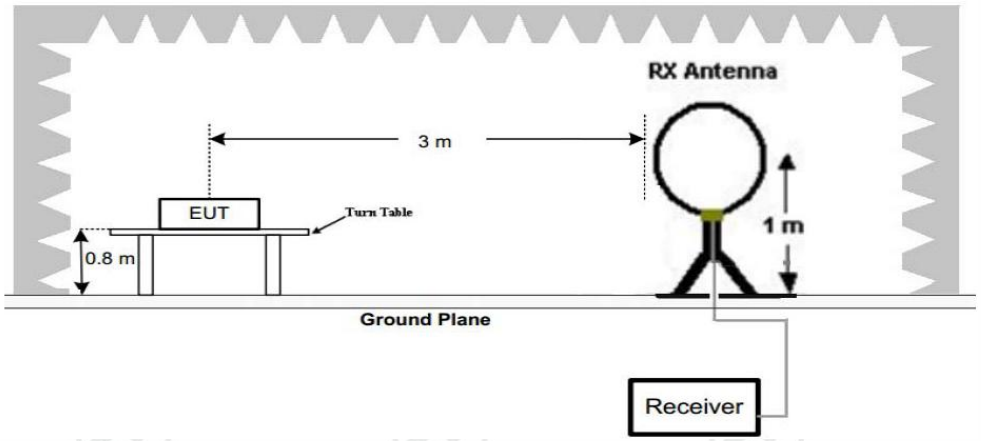


Figure 1. Below 30MHz

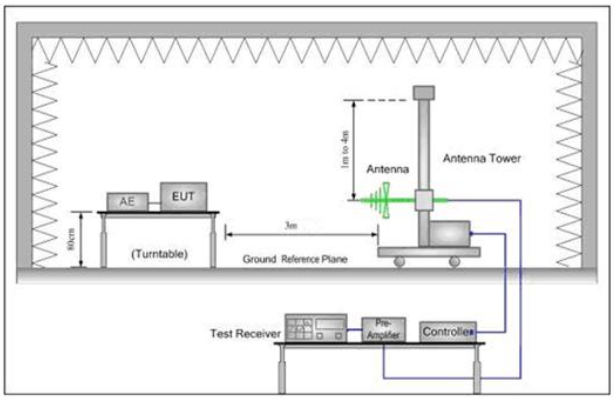


Figure 2. 30MHz to 1GHz

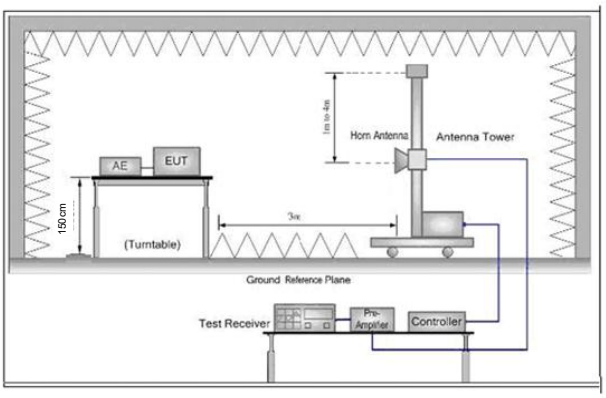


Figure 3. Above 1 GHz

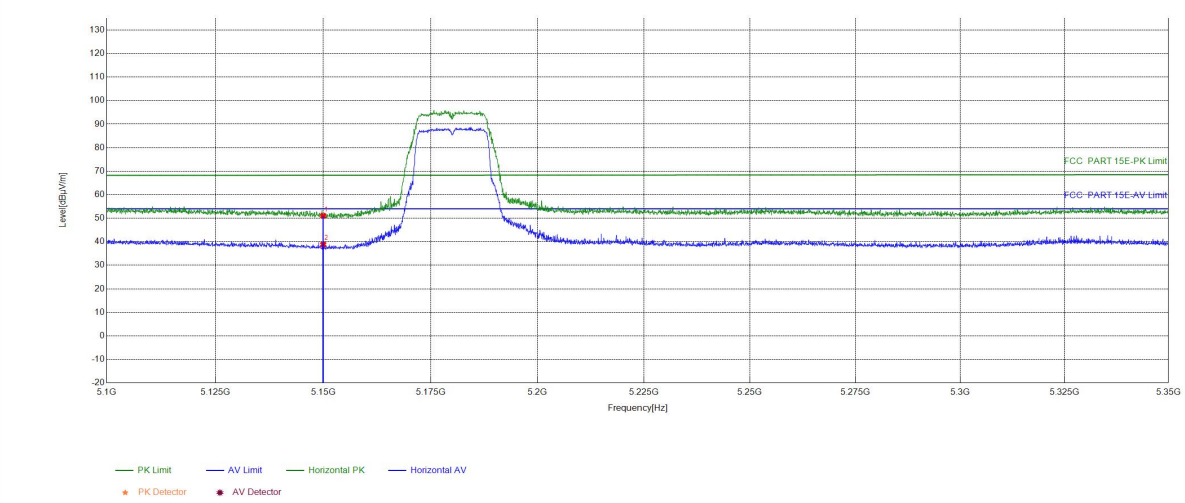
Test Procedure:	j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters 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: 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:

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

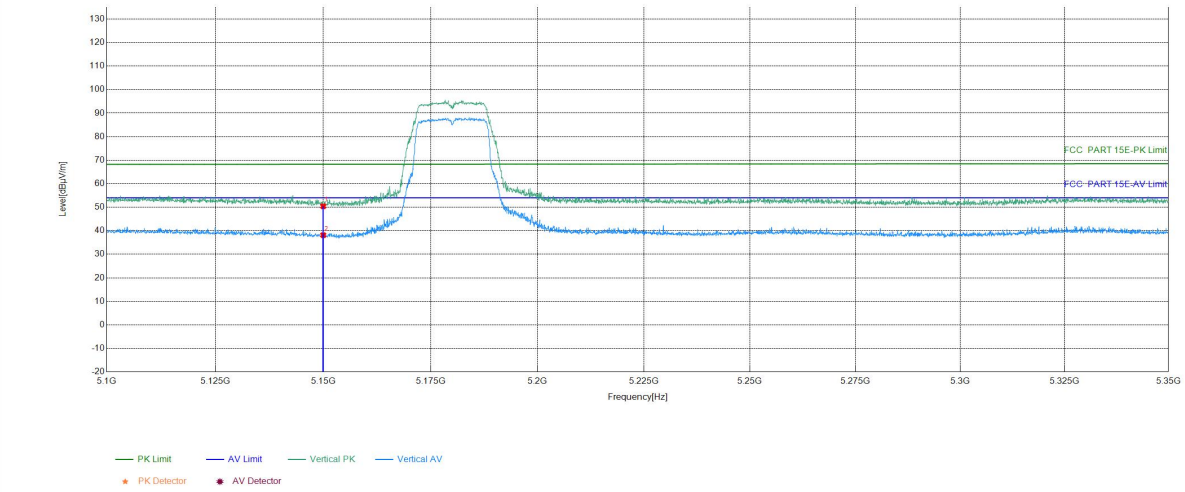
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.98	29.03	51.01	68.26	17.25	PASS	Horizontal	PK
2	5150	21.98	16.88	38.86	54.00	15.14	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5180Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

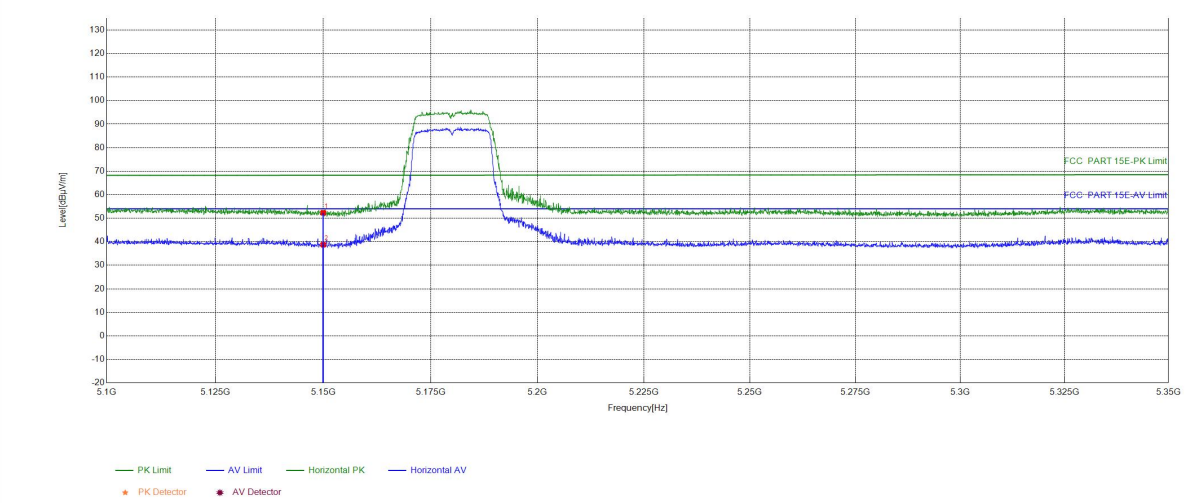
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.98	28.43	50.41	68.26	17.85	PASS	Vertical	PK
2	5150	21.98	16.15	38.13	54.00	15.87	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

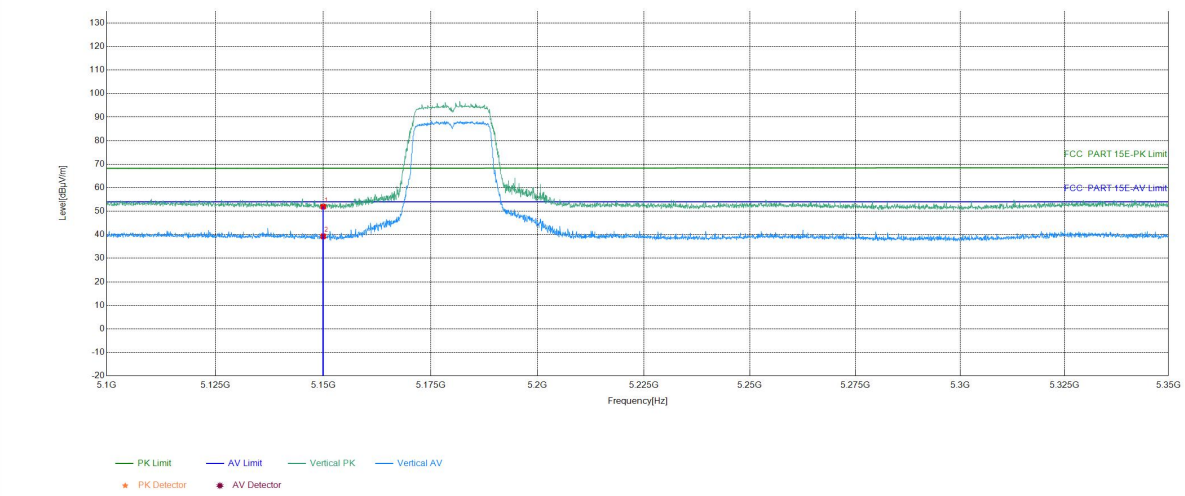
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.98	30.35	52.33	68.26	15.93	PASS	Horizontal	PK
2	5150	21.98	16.77	38.75	54.00	15.25	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5180Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

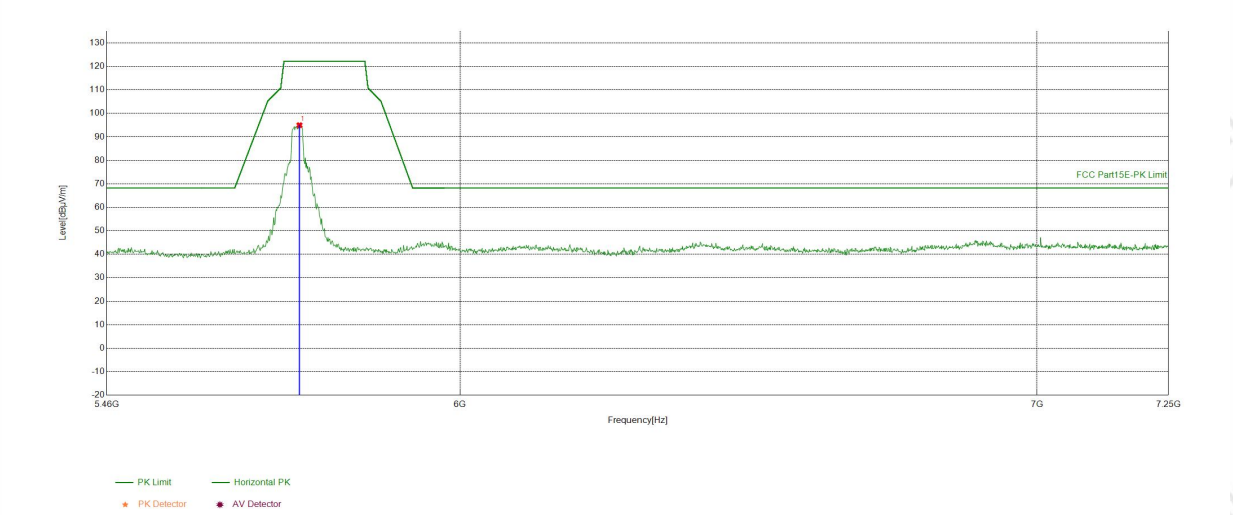
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150	21.98	29.96	51.94	68.26	16.32	PASS	Vertical	PK
2	5150	21.98	17.35	39.33	54.00	14.67	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5745Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

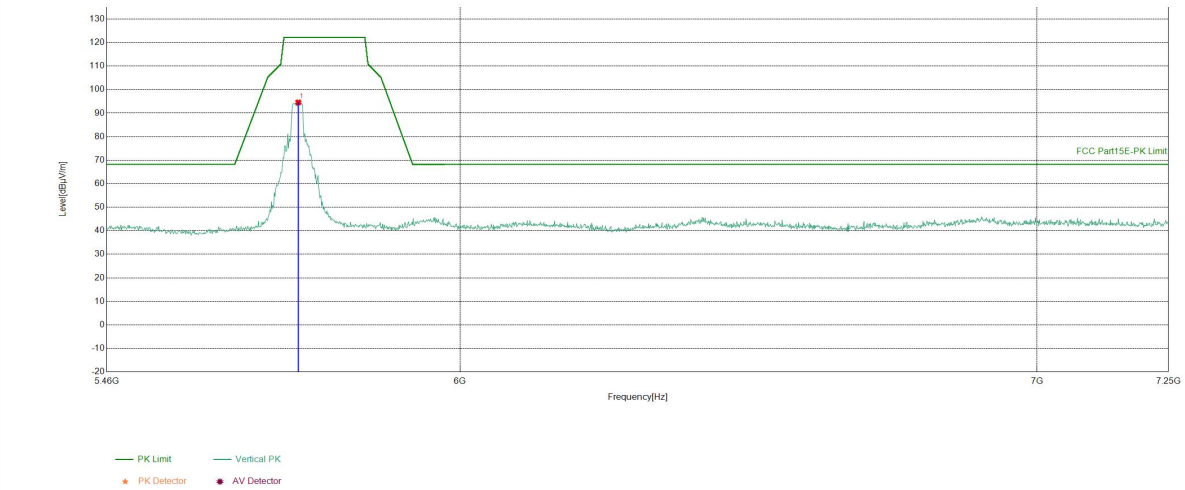
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5748.3342	-7.30	102.28	94.98	122.20	27.22	PASS	Horizontal	PK

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5745Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

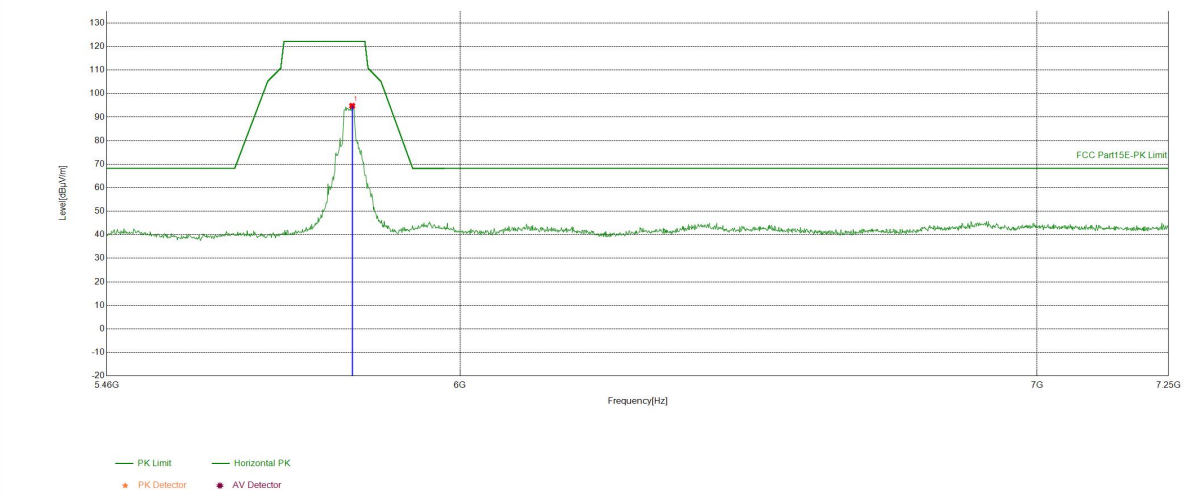
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5746.5433	-7.38	101.93	94.55	122.20	27.65	PASS	Vertical	PK

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5825Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

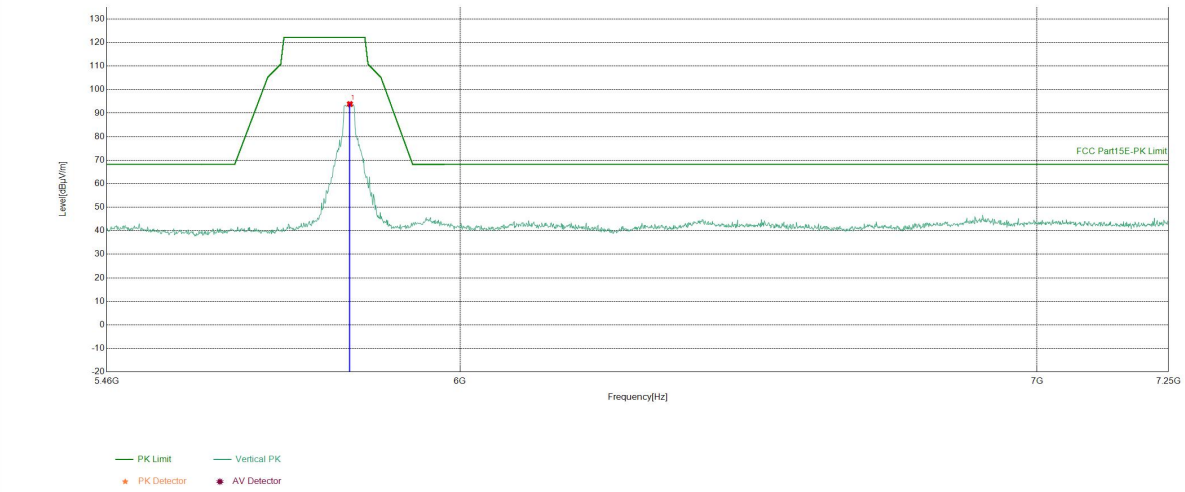
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5829.8199	-7.16	101.97	94.81	122.20	27.39	PASS	Horizontal	PK

EUT_Name		Test_Model	
Test_Mode	802.11 a Transmitting	Test_Frequency	5825Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

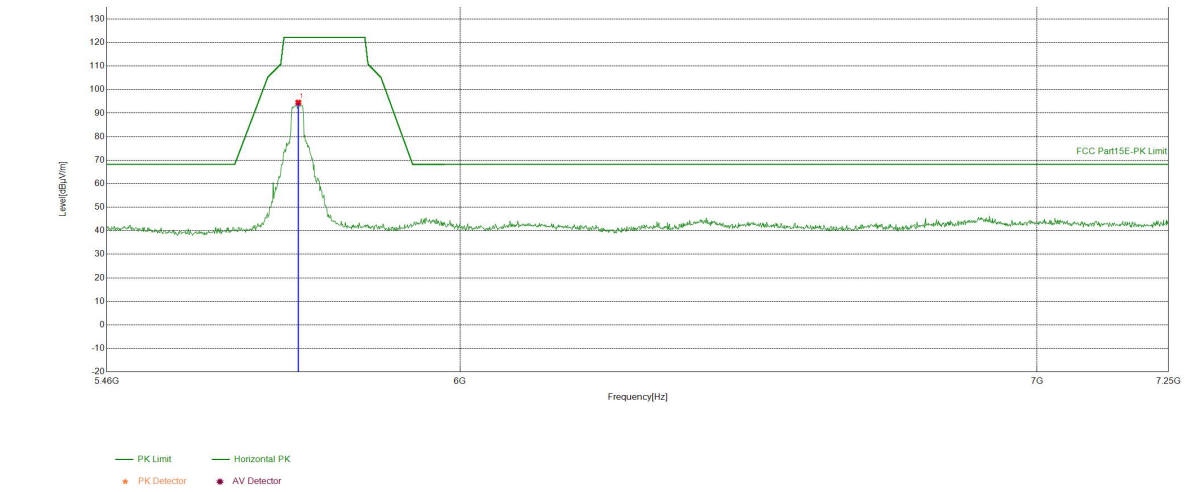
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5826.2381	-7.20	101.07	93.87	122.20	28.33	PASS	Vertical	PK

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

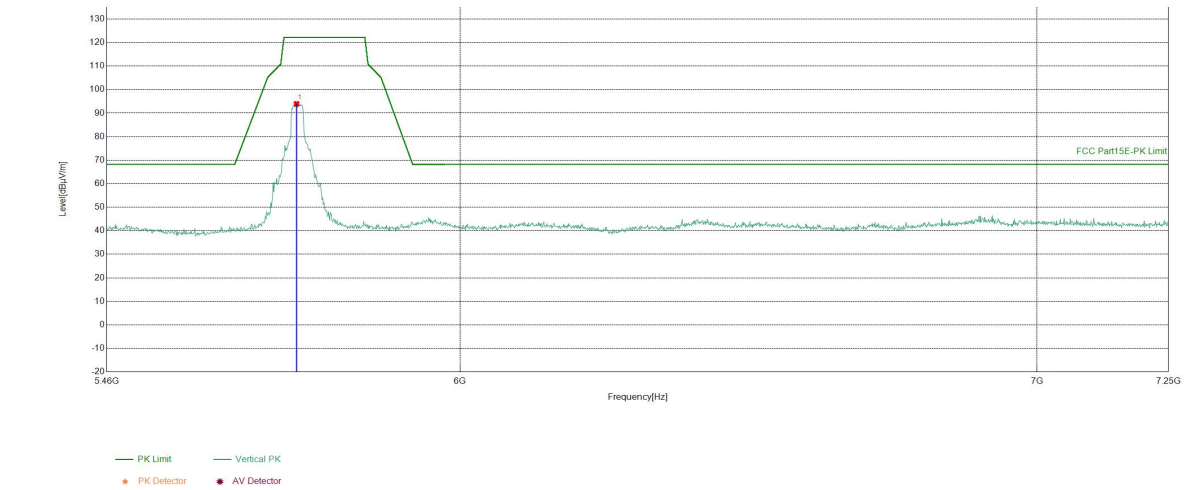
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5746.5433	-7.38	101.87	94.49	122.20	27.71	PASS	Horizontal	PK

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5745Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

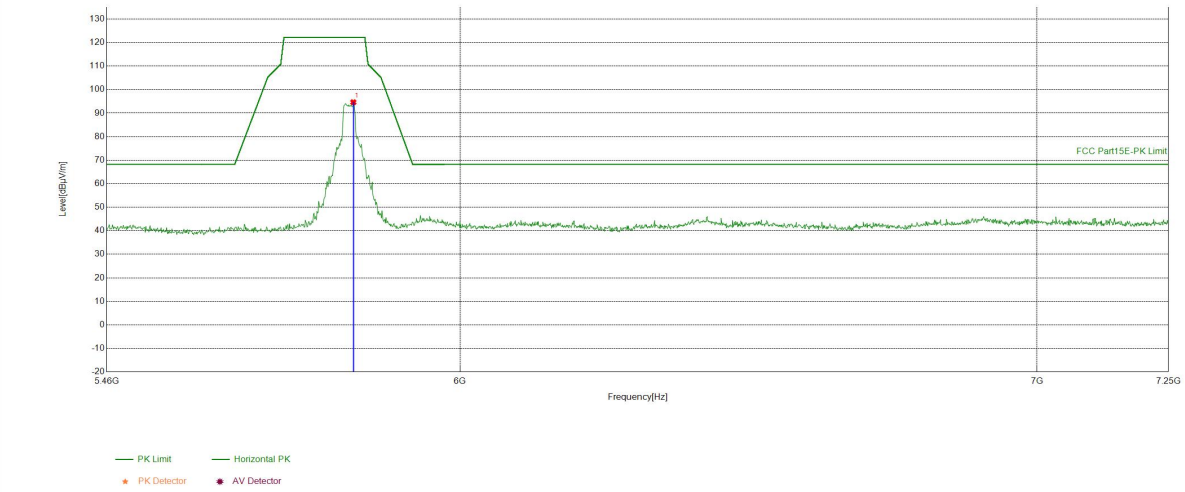
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.8569	-7.48	101.41	93.93	122.20	28.27	PASS	Vertical	PK

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

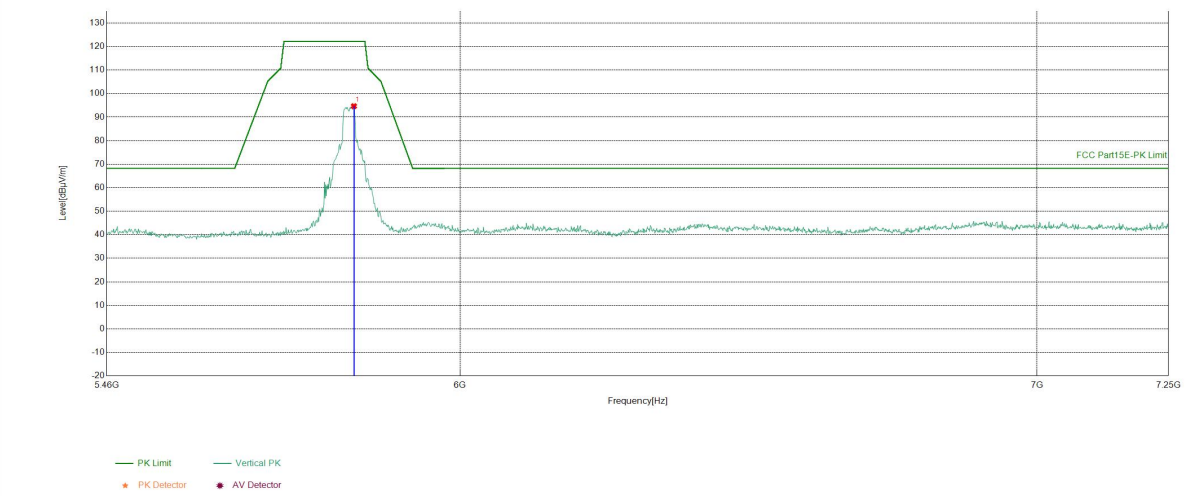
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5831.6108	-7.15	101.77	94.62	122.20	27.58	PASS	Horizontal	PK

EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	5825Mhz
Tset_Engineer	chenjun	Test_Date	2025/04/03
Remark			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5832.5063	-7.14	101.80	94.66	122.20	27.54	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.

7 Appendix A

Refer to Appendix: 5G Wi-Fi of EED32R80375502

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32R80375501 for EUT external and internal photos.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***