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TEST REPORT

Product : Wireless 3D wheel Aligner

Trade mark : SmartSafe

Model/Type reference : WA613

Serial Number : N/A

Report Number : EED32Q81688503

FCC ID : 2AYANWA613 Date of Issue : Nov. 22, 2024

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

SHENZHEN SMARTSAFE TECH CO., LTD

3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua

New District, Shenzhen, China

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

Keven Tan

Date:

Nov. 22, 2024

Check No.: 7125221024

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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2 Version

Version No.	Date	16	Description	7
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- ((20)	(6)	(47)	(0,7)











































































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3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	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.

Note: The product consists of two identical modules working together. All modules have been tested, and the report only records the worst one (left module).







4 General Information

4.1 Client Information

Applicant:	SHENZHEN SMARTSAFE TECH CO., LTD
Address of Applicant:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China
Manufacturer:	SHENZHEN SMARTSAFE TECH CO., LTD
Address of Manufacturer:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China
Factory:	SHENZHEN SMARTSAFE TECH CO., LTD
Address of Factory:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Wireless 3D wheel Aligner	
Model No.:	WA613	
Trade mark:	SmartSafe	
Product Type:	☐ Mobile ☐ Portable ☐ Fixed Location	6
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)	
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
Channel Separation:	5MHz	
Antenna Type:	FPC antenna	
Antenna Gain:	2.88 dBi	
Power Supply:	Battery: DC 7.4V	
Test Voltage:	DC 7.4V	
Sample Received Date:	Oct. 31, 2024	
Sample tested Date:	Oct. 31, 2024 to Nov. 19, 2024	





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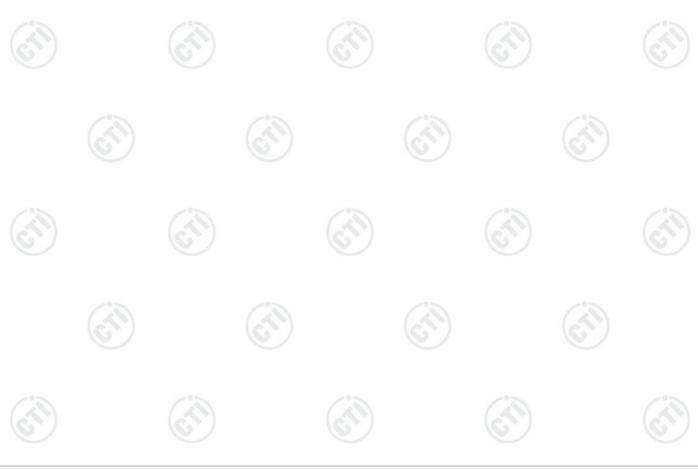
Operation	Frequency ea	ch of channe	el (802.11b/g/n	HT20)	0	(2))
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(67)

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:

802.11b/g/n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The highest channel	2462MHz







4.3 Test Configuration

EUT Test Software Setti	ngs:		
Test Software:	Adb.exe	-0-	
EUT Power Grade:	Default	(41)	(41)
Use test software to set th	ne lowest frequency, the middle fre	quency and the highest frequen	cy keen

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
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n(HT20).





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4.4 Test Environment

Operating Environment	t:					
Radiated Spurious Emi	ssions:					
Temperature:	22~25.0 °C	(40)		(41)		(21)
Humidity:	50~55 % RH	0		(0)		6
Atmospheric Pressure:	1010mbar					
Conducted Emissions:						
Temperature:	22~25.0 °C		(2)		(3)	
Humidity:	50~55 % RH		(0,)		(0,)	
Atmospheric Pressure:	1010mbar					
RF Conducted:						
Temperature:	22~25.0 °C	/°		(°)		(3)
Humidity:	50~55 % RH	(6,2)		(6,7)		(C)
Atmospheric Pressure:	1010mbar					
	Radiated Spurious Emi Temperature: Humidity: Atmospheric Pressure: Conducted Emissions: Temperature: Humidity: Atmospheric Pressure: RF Conducted: Temperature: Humidity:	Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar Conducted Emissions: Temperature: 22~25.0 °C Humidity: 50~55 % RH Atmospheric Pressure: 1010mbar RF Conducted: Temperature: 22~25.0 °C Humidity: 50~55 % RH	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: Temperature: 22~25.0 °C Humidity: 50~55 % RH	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: Temperature: 22~25.0 °C Humidity: 50~55 % RH	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: Temperature: 22~25.0 °C Humidity: 50~55 % RH	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: Temperature: 22~25.0 °C Humidity: 50~55 % RH

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
1	1	1	1	1

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

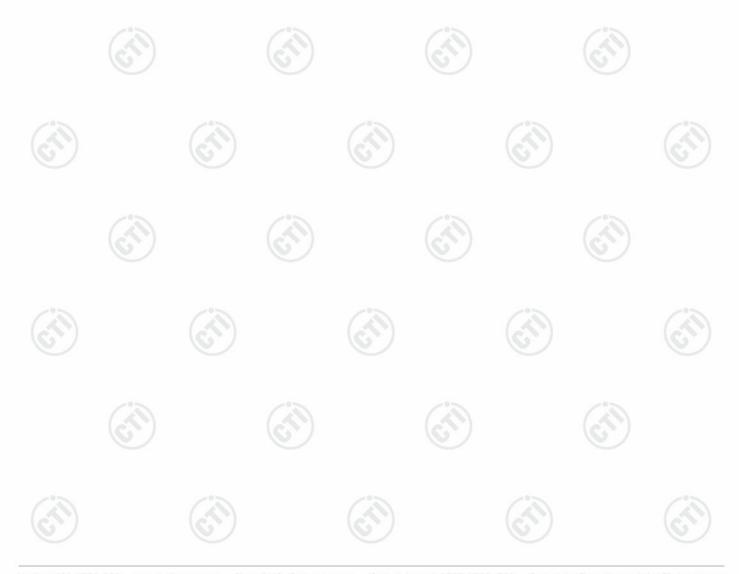






4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	6	3.3dB (9kHz-30MHz)
2	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3		4.5dB (1GHz-18GHz)
(P)		3.4dB (18GHz-40GHz)
	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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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	11-12-2023	12-10-2024				
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		- (či				
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025				

	Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date (mm-dd-yyyy)			
(277)		(277)	Number	04-18-2024				
Receiver	R&S	ESCI	100435	04-10-2024	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	(<u> </u>			
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	12-14-2023	12-13-2024			



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			Serial	Cal. date	Cal. Due date (mm-dd-yyyy)	
Equipment	Manufacturer	Model No.	Number	(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	12/14/2023	12/13/2024	
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	03/22/2024	03/21/2025	
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025	
Test software	Fara	EZ-EMC	EMEC- 3A1-Pre	(ci)	- 6	
Cable line	Fulai(7M)	SF106	5219/6A			
Cable line	Fulai(6M)	SF106	5220/6A	/	- <i>(1)</i>	
Cable line	Fulai(3M)	SF106	5216/6A		5) _	
Cable line	Fulai(3M)	SF106	5217/6A			













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		3M full-anechoi	c 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	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025
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	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
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	C.	
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	(i)	-(1)
Cable line	Times	EMC104-NMNM-1000	SN160710	<u></u>	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(3	
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is FPC antenna. The best case gain of the antenna is 2.88 dBi.





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6.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.	207	(0.)				
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limit:	Eroquency range (MHz) Limit (dBuV)						
	Frequency range (MHz)	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 logarithr	n of the frequency.					
	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver				
Test Procedure:	The mains terminal disturbance voltage test was conducted in a shielded room.						
	2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the r 3) The tabletop EUT was pla ground reference plane. A placed on the horizontal g 4) The test was performed wi the EUT shall be 0.4 m vertical ground reference reference plane. The LISI unit under test and bor mounted on top of the gro the closest points of the I and associated equipment 5) In order to find the maxim and all of the interface ca ANSI C63.10: 2013 on cor	letwork) which provide cables of all other SN 2, which was bonders the LISN 1 for the was used to connect a lating of the LISN was reaced upon a non-metal and for floor-standing a round reference plane, the a vertical ground reference plane was bonded N 1 was placed 0.8 m and to a ground refund reference plane. To LISN 1 and the EUT. It was at least 0.8 m froum emission, the relatibles must be changed	s a 50Ω/50µH + 5Ω linea units of the EUT were ed to the ground reference unit being measured. A multiple power cables to a not exceeded. Allic table 0.8m above the rrangement, the EUT was ference plane. The rear ound reference plane. The to the horizontal ground from the boundary of the ference plane for LISNs this distance was between All other units of the EUT m the LISN 2. ve positions of equipmen according to				
Test Mode:	All modes were tested, only the 802.11b was recorded in the		channel of 1Mbps for				

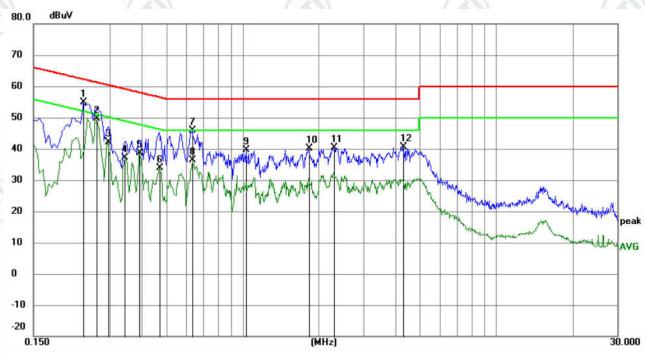


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Test Results:	Pass	
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Measurement Data

Live line:



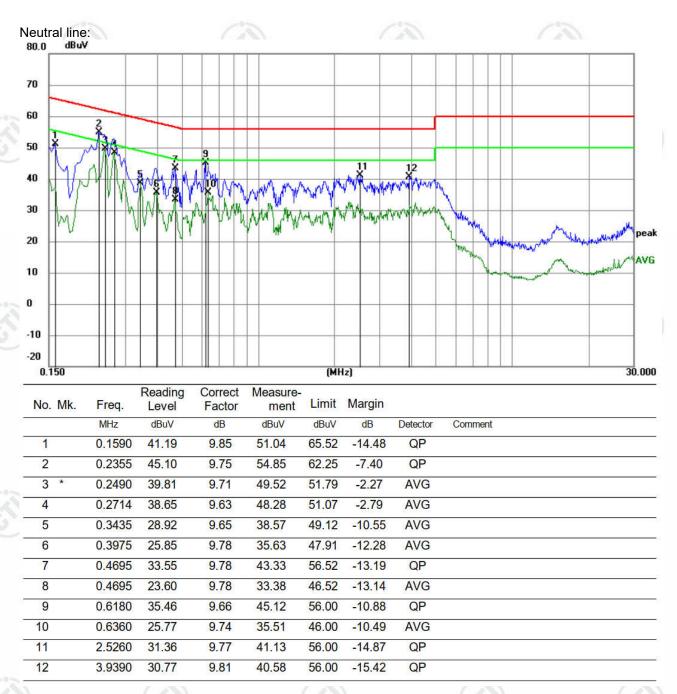
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2355	45.08	9.75	54.83	62.25	-7.42	QP	
2	*	0.2670	39.89	9.65	49.54	51.21	-1.67	AVG	
3		0.2940	32.60	9.56	42.16	50.41	-8.25	AVG	
4		0.3435	27.55	9.65	37.20	49.12	-11.92	AVG	
5		0.3930	28.92	9.77	38.69	48.00	-9.31	AVG	
6		0.4695	24.09	9.78	33.87	46.52	-12.65	AVG	
7		0.6360	36.03	9.74	45.77	56.00	-10.23	QP	
8		0.6360	26.65	9.74	36.39	46.00	-9.61	AVG	
9		1.0365	29.89	9.74	39.63	56.00	-16.37	QP	
10		1.8285	30.36	9.75	40.11	56.00	-15.89	QP	
11		2.2965	30.52	9.76	40.28	56.00	-15.72	QP	
12		4.3034	30.89	9.82	40.71	56.00	-15.29	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.







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.









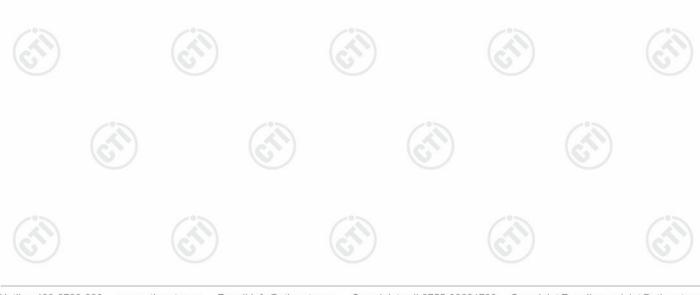






6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	Eil Eil
	Control Computer Actenna pootly) Power Supply Table RF test System Instrument Instrument
Test Procedure:	1. PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector. 2. Method AVGPM-G Average power measurement Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi





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6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
•	
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Power Pool Actenias Pool Power Pool Table RF test System System Attenuator Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

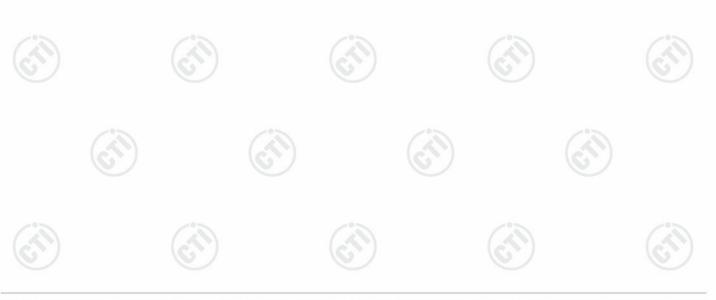






6.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Power Supply Power Supply Table RF test System Instrument Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

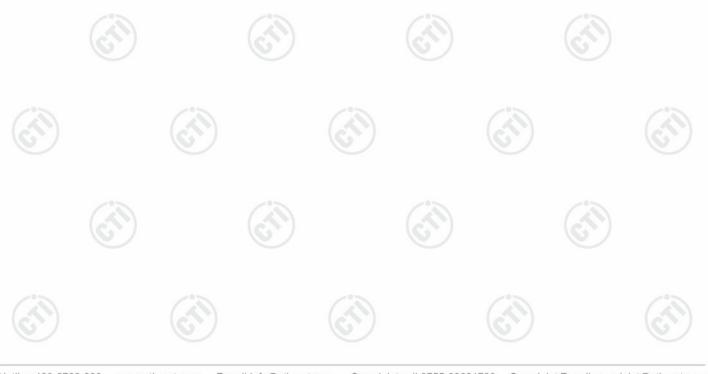






6.6 Band Edge Measurements and Conducted Spurious Emission

47 CFR Part 15C Section 15.247 (d)
ANSI C63.10 2013
Control Computer Power Supply Power Table RF test System System Instrument Instrument
Remark: Offset=Cable loss+ attenuation factor.
a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Refer to clause 5.3
Refer to Appendix 2.4G Wi-Fi

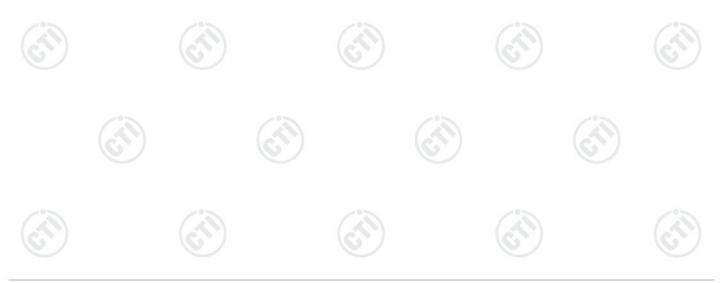






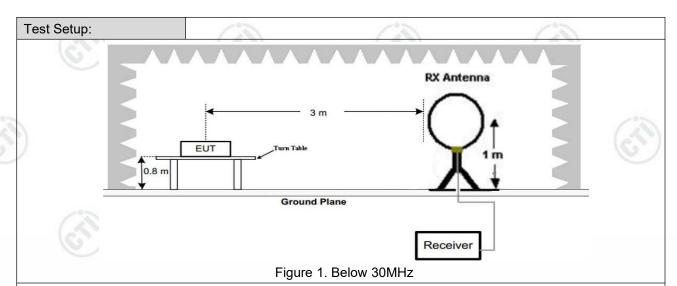
6.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Sec	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	10)	Detector	r RB	W	VBW	Remark			
	0.009MHz-0.090M	Hz	Peak	10k	Hz	30kHz	Peak			
	0.009MHz-0.090M	Hz	Average	e 10k	Hz	30kHz	Average			
	0.090MHz-0.110M	Hz	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak			
	0.110MHz-0.490M	Hz	Peak	10k	Hz	30kHz	Peak			
	0.110MHz-0.490M	Hz	Average	10k	Hz	30kHz	Average			
	0.490MHz -30MH	z	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-pea			300kHz	Quasi-peak			
	Al 4011-	Above 1GHz		1M	Hz	3MHz	Peak			
	Above 1GHz			1M	Hz	10kHz	Average			
Limit:	Frequency		d strength ovolt/meter)	Limit (dBuV/m	R	emark	Measurement distance (m)			
	0.009MHz-0.490MHz	,		-	-		300			
	0.490MHz-1.705MHz	1		-	-		30			
	1.705MHz-30MHz		30	-	- 6		30			
	30MHz-88MHz		100	40.0	Quasi-peak		3			
	88MHz-216MHz		150	43.5	Quasi-peak		3			
	216MHz-960MHz	[1]	200	46.0	Quasi-peak		3			
	960MHz-1GHz		500	54.0	Quasi-peak		3			
	Above 1GHz	500		54.0	A۱	/erage	3			
	frequency emissions i	Note: 15.35(b), Unle frequency emissions is 20d limit applicable to the equip			m pe	rmitted av	erage emission			





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Antenna Antenna Tower

A Test Receiver

Test Receiver

Test Receiver

Test Receiver

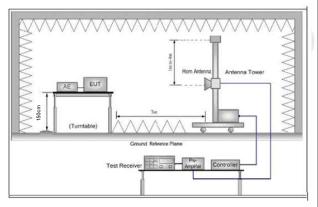


Figure 2. 30MHz to 1GHz

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:

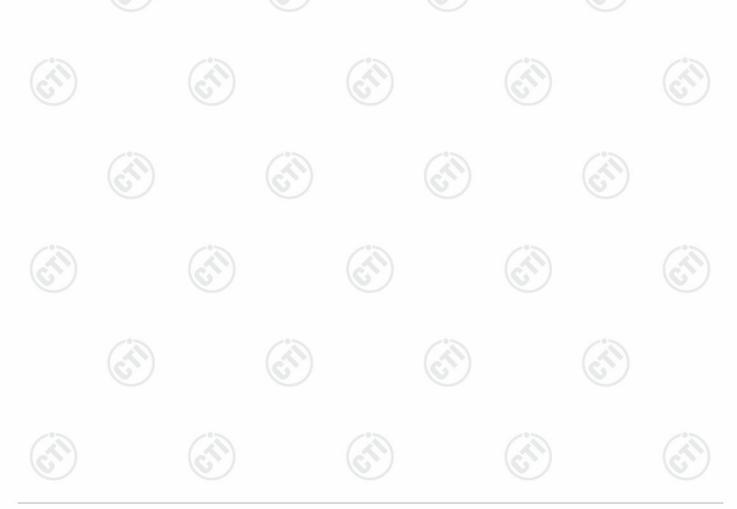
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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



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Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	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.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.
	horizontal and vertical polarizations of the antenna are set to make the measurement.



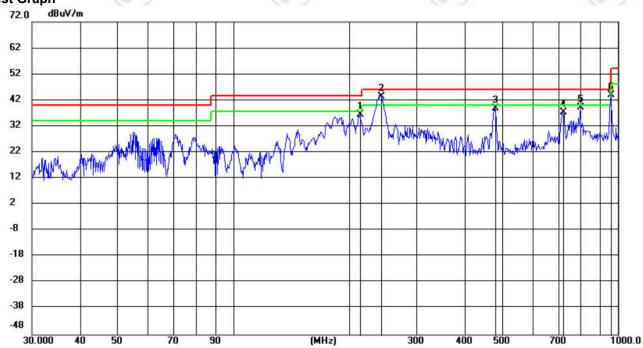


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Radiated Spurious Emission below 1GHz:

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

Horizontal:



No. M	1k.	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	2	214.4390	23.52	12.92	36.44	43.50	-7.06	QP	199	159	
2 *	2	241.8882	29.54	13.96	43.50	46.00	-2.50	QP	100	179	
3	4	480.0223	19.37	19.48	38.85	46.00	-7.15	QP	199	319	
4	7	719.4517	13.94	23.29	37.23	46.00	-8.77	QP	100	7	
5	7	799.4000	14.62	24.49	39.11	46.00	-6.89	QP	100	232	
6	Ś	960.1400	17.54	26.27	43.81	54.00	-10.19	QP	100	113	









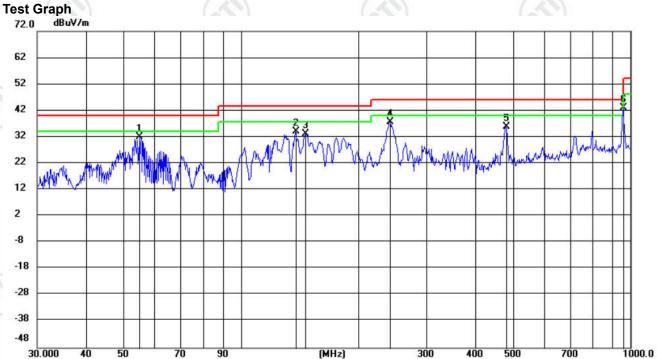








Vertical:



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	*	54.9503	18.65	13.25	31.90	40.00	-8.10	QP	200	91	
2		138.2661	24.66	9.27	33.93	43.50	-9.57	QP	100	267	
3		146.8362	24.09	9.17	33.26	43.50	-10.24	QP	100	213	
4		241.2953	23.62	13.94	37.56	46.00	-8.44	QP	100	64	
5		479.4336	16.47	19.47	35.94	46.00	-10.06	QP	200	305	
6		960.1401	16.84	26.27	43.11	54.00	-10.89	QP	100	10	

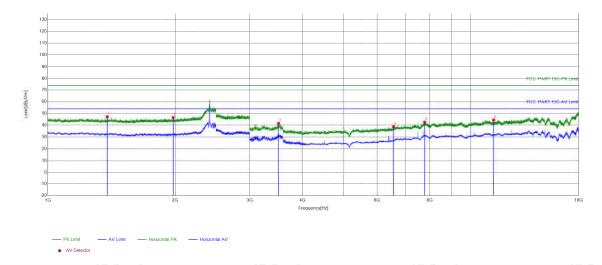




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Radiated Spurious Emission above 1GHz:

Test_Mode	802.11 b Transmitting	Test_Frequency	2412		
Tset_Engineer	Chenjun	Test_Date	2024/11/12		
Remark	1	(3)	(3)		



Suspec	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	1381.6382	8.14	39.12	47.26	74.00	26.74	PASS	Horizontal	PK		
2	1978.2978	8.98	37.65	46.63	74.00	27.37	PASS	Horizontal	PK		
3	3511.0341	-17.98	59.59	41.61	74.00	32.39	PASS	Horizontal	PK		
4	6566.2377	-9.02	47.85	38.83	74.00	35.17	PASS	Horizontal	PK		
5	7781.3188	-4.13	46.69	42.56	74.00	31.44	PASS	Horizontal	PK		
6	11325.555	-1.18	45.68	44.50	74.00	29.50	PASS	Horizontal	PK		







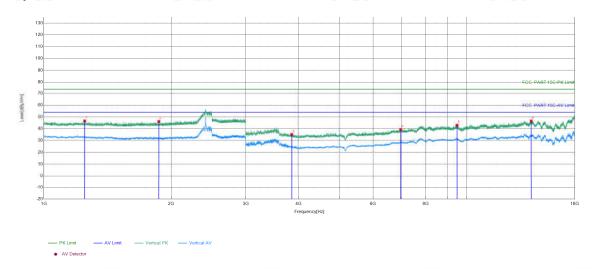






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Test_Mode	802.11 b Transmitting	Test_Frequency	2412
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	\		



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1248.6249	7.86	38.70	46.56	74.00	27.44	PASS	Vertical	PK
2	1870.487	8.82	37.30	46.12	74.00	27.88	PASS	Vertical	PK
3	3856.0571	-17.06	52.25	35.19	74.00	38.81	PASS	Vertical	PK
4	6976.2651	-7.14	46.60	39.46	74.00	34.54	PASS	Vertical	PK
5	9483.4322	-0.60	43.56	42.96	74.00	31.04	PASS	Vertical	PK
6	14206.7471	7.09	39.54	46.63	74.00	27.37	PASS	Vertical	PK







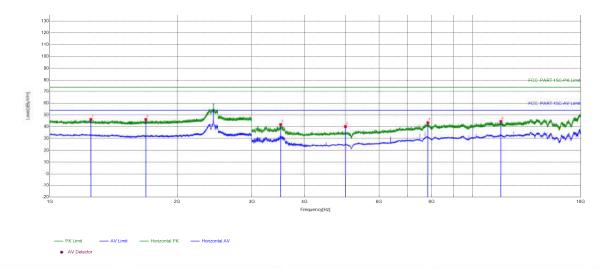








6.7	10.7	16.0	16.3
Test_Mode	802.11 b Transmitting	Test_Frequency	2437
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1250.225	7.86	38.40	46.26	74.00	27.74	PASS	Horizontal	PK
	2	1686.4686	8.45	37.73	46.18	74.00	27.82	PASS	Horizontal	PK
	3	3514.0343	-17.97	59.86	41.89	74.00	32.11	PASS	Horizontal	PK
	4	5000.1333	-13.27	53.43	40.16	74.00	33.84	PASS	Horizontal	PK
	5	7833.3222	-3.96	47.40	43.44	74.00	30.56	PASS	Horizontal	PK
3	6	11658.5772	0.29	44.21	44.50	74.00	29.50	PASS	Horizontal	PK







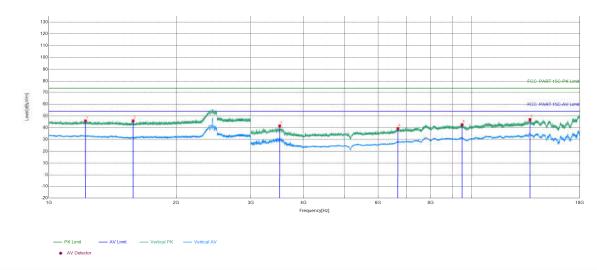






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6.3	10.5	10.	16.7
Test_Mode	802.11 b Transmitting	Test_Frequency	2437
Tset_Engineer Chenjun		Test_Date	2024/11/12
Remark	1	`	



Suspe	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1220.022	7.94	37.89	45.83	74.00	28.17	PASS	Vertical	PK	
2	1582.2582	7.98	37.92	45.90	74.00	28.10	PASS	Vertical	PK	
3	3514.0343	-17.97	59.63	41.66	74.00	32.34	PASS	Vertical	PK	
4	6690.246	-7.82	47.27	39.45	74.00	34.55	PASS	Vertical	PK	
5	9486.4324	-0.57	43.23	42.66	74.00	31.34	PASS	Vertical	PK	
6	13732.7155	4.76	42.25	47.01	74.00	26.99	PASS	Vertical	PK	







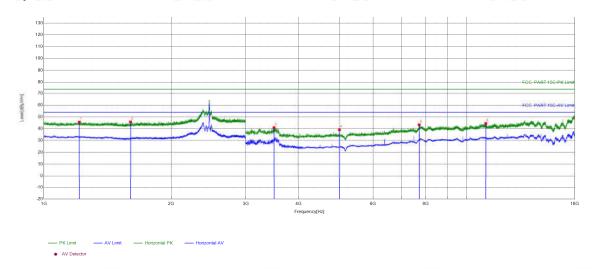






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C	1020	100	1627
Test_Mode	802.11 b Transmitting	Test_Frequency	2462
Tset_Engineer Chenjun		Test_Date	2024/11/12
Remark	1		



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1212.6213	7.96	37.71	45.67	74.00	28.33	PASS	Horizontal	PK
	2	1602.4602	8.01	37.78	45.79	74.00	28.21	PASS	Horizontal	PK
	3	3501.0334	-18.02	58.96	40.94	74.00	33.06	PASS	Horizontal	PK
	4	4999.1333	-13.27	52.43	39.16	74.00	34.84	PASS	Horizontal	PK
	5	7718.3146	-4.75	48.08	43.33	74.00	30.67	PASS	Horizontal	PK
	6	11095.5397	0.25	44.23	44.48	74.00	29.52	PASS	Horizontal	PK







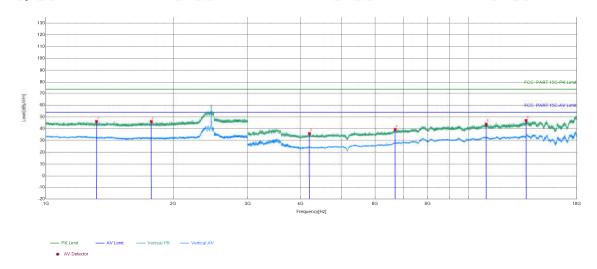






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Test_Mode	802.11 b Transmitting	Test_Frequency	2462
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	\		



Susp	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1317.8318	7.81	38.38	46.19	74.00	27.81	PASS	Vertical	PK
2	1774.8775	8.48	37.65	46.13	74.00	27.87	PASS	Vertical	PK
3	4200.08	-15.67	51.60	35.93	74.00	38.07	PASS	Vertical	PK
4	6697.2465	-7.75	47.25	39.50	74.00	34.50	PASS	Vertical	PK
5	10993.5329	0.26	43.70	43.96	74.00	30.04	PASS	Vertical	PK
6	13664.711	5.52	41.54	47.06	74.00	26.94	PASS	Vertical	PK







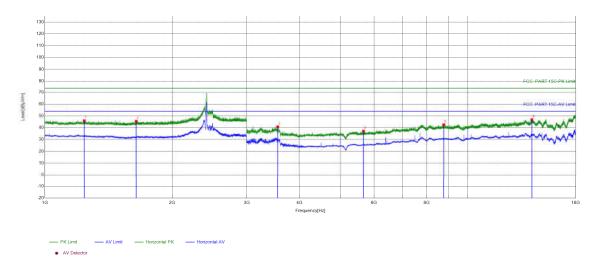








C.~ /	160	(60)	162
Test_Mode	802.11 g Transmitting	Test_Frequency	2412
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



Suspected List										
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1239.4239	7.89	38.03	45.92	74.00	28.08	PASS	Horizontal	PK
	2	1644.4644	8.23	37.25	45.48	74.00	28.52	PASS	Horizontal	PK
	3	3553.0369	-17.83	58.60	40.77	74.00	33.23	PASS	Horizontal	PK
	4	5667.1778	-11.82	48.92	37.10	74.00	36.90	PASS	Horizontal	PK
	5	8775.385	-2.91	45.42	42.51	74.00	31.49	PASS	Horizontal	PK
	6	14175.745	7.21	39.61	46.82	74.00	27.18	PASS	Horizontal	PK







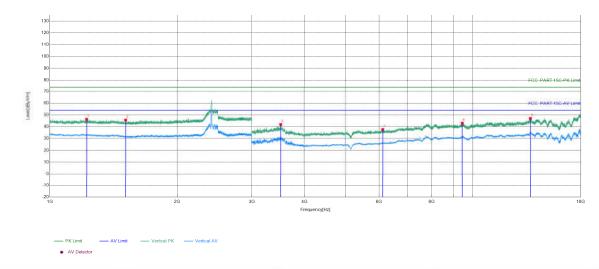






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6.31	(0)	(C)	16.3
Test_Mode	802.11 g Transmitting	Test_Frequency	2412
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1221.2221	7.94	38.34	46.28	74.00	27.72	PASS	Vertical	PK
	2	1510.8511	7.87	37.75	45.62	74.00	28.38	PASS	Vertical	PK
	3	3514.0343	-17.97	59.86	41.89	74.00	32.11	PASS	Vertical	PK
	4	6125.2083	-10.19	47.88	37.69	74.00	36.31	PASS	Vertical	PK
	5	9446.4298	-0.97	44.01	43.04	74.00	30.96	PASS	Vertical	PK
	6	13684.7123	5.26	41.80	47.06	74.00	26.94	PASS	Vertical	PK







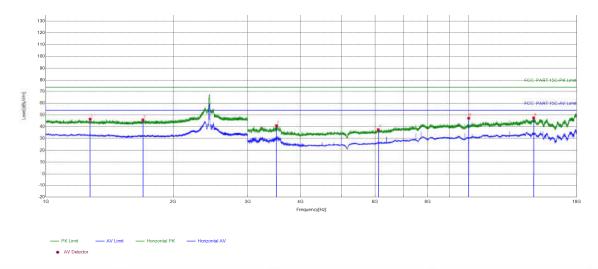








6.4	16.7	16.2	1627
Test_Mode	802.11 g Transmitting	Test_Frequency	2437
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1	`	



	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1272.4272	7.79	38.72	46.51	74.00	27.49	PASS	Horizontal	PK
	2	1696.0696	8.50	37.32	45.82	74.00	28.18	PASS	Horizontal	PK
	3	3511.0341	-17.98	58.91	40.93	74.00	33.07	PASS	Horizontal	PK
	4	6111.2074	-10.24	47.77	37.53	74.00	36.47	PASS	Horizontal	PK
	5	10000.4667	-0.79	48.06	47.27	74.00	26.73	PASS	Horizontal	PK
	6	14238.7492	6.84	40.73	47.57	74.00	26.43	PASS	Horizontal	PK







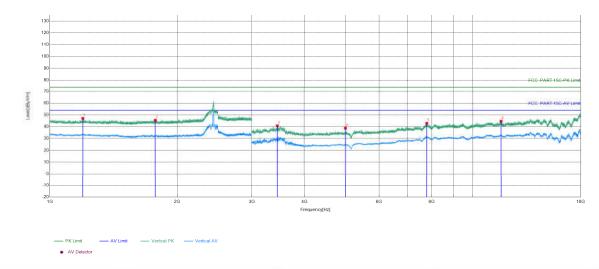






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C	16.7	16.0	1627
Test_Mode	802.11 g Transmitting	Test_Frequency	2437
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



	Suspe	cted List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1196.6197	7.97	39.14	47.11	74.00	26.89	PASS	Vertical	PK
	2	1775.4775	8.48	37.05	45.53	74.00	28.47	PASS	Vertical	PK
	3	3450.03	-18.13	58.91	40.78	74.00	33.22	PASS	Vertical	PK
	4	5000.1333	-13.27	52.06	38.79	74.00	35.21	PASS	Vertical	PK
	5	7785.319	-4.08	47.00	42.92	74.00	31.08	PASS	Vertical	PK
	6	11665.5777	0.19	44.52	44.71	74.00	29.29	PASS	Vertical	PK







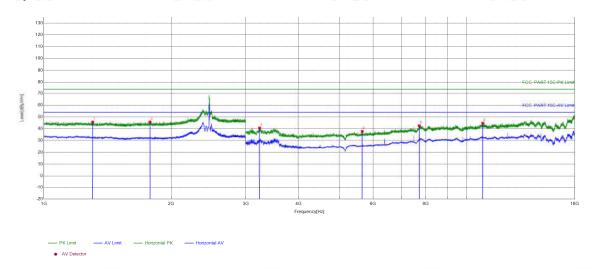






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6.7	(0.70)	(6.7	162	
Test_Mode	802.11 g Transmitting	Test_Frequency	2437	
Tset_Engineer	Chenjun	Test_Date	2024/11/12	
Remark	1			



	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1304.2304	7.74	37.93	45.67	74.00	28.33	PASS	Horizontal	PK
	2	1782.2782	8.47	37.26	45.73	74.00	28.27	PASS	Horizontal	PK
	3	3236.0157	-18.34	58.97	40.63	74.00	33.37	PASS	Horizontal	PK
	4	5659.1773	-11.82	49.62	37.80	74.00	36.20	PASS	Horizontal	PK
	5	7718.3146	-4.75	47.27	42.52	74.00	31.48	PASS	Horizontal	PK
3	6	10914.5276	0.43	44.25	44.68	74.00	29.32	PASS	Horizontal	PK







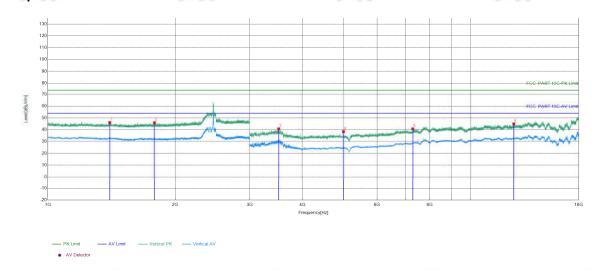






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Test_Mode	802.11 g Transmitting	Test_Frequency	2462
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	\		



Susp	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1400.24	8.23	37.86	46.09	74.00	27.91	PASS	Vertical	PK
2	1786.2786	8.47	37.51	45.98	74.00	28.02	PASS	Vertical	PK
3	3514.0343	-17.97	58.76	40.79	74.00	33.21	PASS	Vertical	PK
4	5000.1333	-13.27	51.68	38.41	74.00	35.59	PASS	Vertical	PK
5	7293.2862	-6.84	47.63	40.79	74.00	33.21	PASS	Vertical	PK
6	12644.643	0.80	44.26	45.06	74.00	28.94	PASS	Vertical	PK







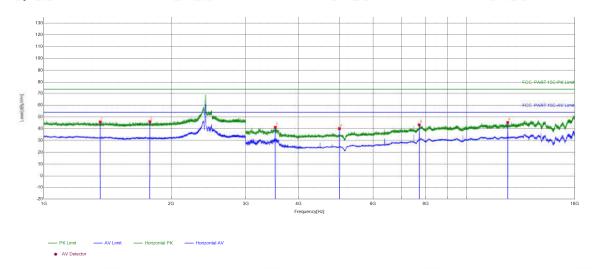






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Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



	Suspe	cted List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1359.2359	8.02	37.77	45.79	74.00	28.21	PASS	Horizontal	PK
	2	1781.0781	8.47	37.54	46.01	74.00	27.99	PASS	Horizontal	PK
	3	3525.035	-17.93	59.19	41.26	74.00	32.74	PASS	Horizontal	PK
	4	4999.1333	-13.27	53.39	40.12	74.00	33.88	PASS	Horizontal	PK
	5	7718.3146	-4.75	48.10	43.35	74.00	30.65	PASS	Horizontal	PK
	6	12499.6333	-0.15	45.50	45.35	74.00	28.65	PASS	Horizontal	PK







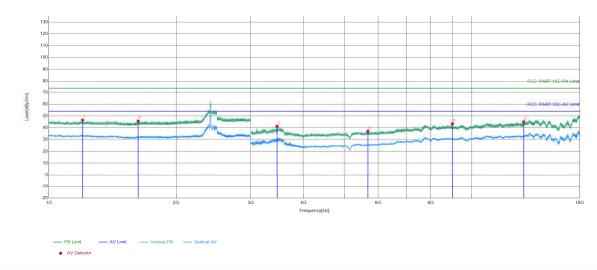






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Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



S	uspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1201.2201	7.99	38.56	46.55	74.00	27.45	PASS	Vertical	PK
	2	1626.2626	8.13	37.53	45.66	74.00	28.34	PASS	Vertical	PK
	3	3465.031	-18.10	59.39	41.29	74.00	32.71	PASS	Vertical	PK
	4	5682.1788	-11.82	49.04	37.22	74.00	36.78	PASS	Vertical	PK
	5	9001.4001	-2.85	46.25	43.40	74.00	30.60	PASS	Vertical	PK
	6	13271.6848	2.29	42.76	45.05	74.00	28.95	PASS	Vertical	PK







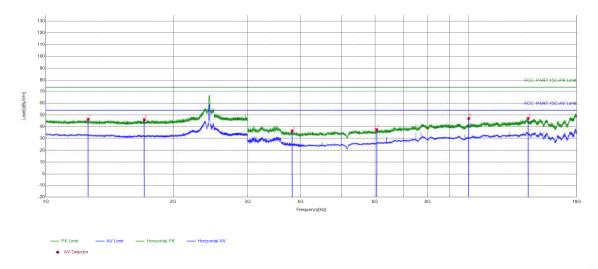






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6.3	(6.5)	(6.5)	162
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2437
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



Suspe	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1259.2259	7.84	38.52	46.36	74.00	27.64	PASS	Horizontal	PK
2	1708.8709	8.51	37.52	46.03	74.00	27.97	PASS	Horizontal	PK
3	3823.0549	-17.21	53.72	36.51	74.00	37.49	PASS	Horizontal	PK
4	6056.2037	-10.56	48.16	37.60	74.00	36.40	PASS	Horizontal	PK
5	10000.4667	-0.79	47.78	46.99	74.00	27.01	PASS	Horizontal	PK
6	13823.7216	4.18	42.96	47.14	74.00	26.86	PASS	Horizontal	PK







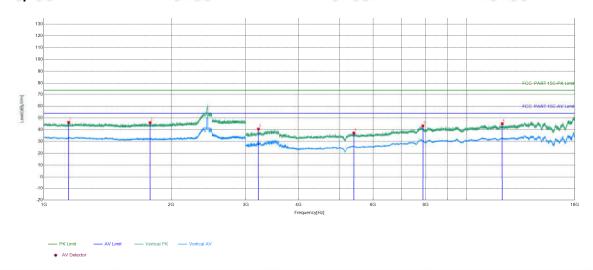






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Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2437
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1	`	



Suspe	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1144.0144	7.39	38.86	46.25	74.00	27.75	PASS	Vertical	PK
2	1782.6783	8.47	37.55	46.02	74.00	27.98	PASS	Vertical	PK
3	3216.0144	-18.43	59.05	40.62	74.00	33.38	PASS	Vertical	PK
4	5408.1605	-11.61	48.91	37.30	74.00	36.70	PASS	Vertical	PK
5	7873.3249	-3.99	47.30	43.31	74.00	30.69	PASS	Vertical	PK
6	12132.6088	0.45	44.71	45.16	74.00	28.84	PASS	Vertical	PK







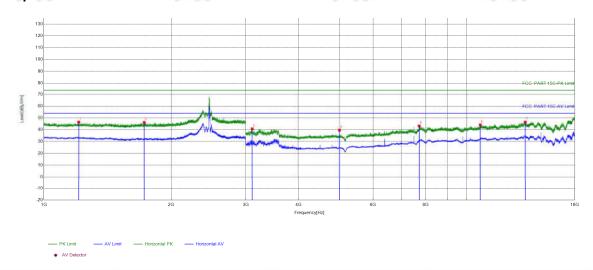






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C	100	1C-2-1	1647
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		



Sus	pected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1209.0209	7.97	38.47	46.44	74.00	27.56	PASS	Horizontal	PK
2	1727.0727	8.50	37.66	46.16	74.00	27.84	PASS	Horizontal	PK
3	3109.0073	-18.89	59.66	40.77	74.00	33.23	PASS	Horizontal	PK
4	5000.1333	-13.27	52.95	39.68	74.00	34.32	PASS	Horizontal	PK
5	7718.3146	-4.75	47.92	43.17	74.00	30.83	PASS	Horizontal	PK
6	10764.5176	-0.53	44.68	44.15	74.00	29.85	PASS	Horizontal	PK
7	13752.7168	4.57	41.90	46.47	74.00	27.53	PASS	Horizontal	PK









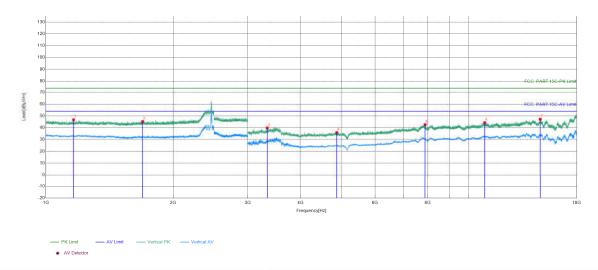




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C. A. T. J.	16.7	16.4	16.7.
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462
Tset_Engineer	Chenjun	Test_Date	2024/11/12
Remark	1		

Test Graph



Sus	pected List								
NC	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1162.6163	7.59	39.21	46.80	74.00	27.20	PASS	Vertical	PK
2	1693.2693	8.49	36.79	45.28	74.00	28.72	PASS	Vertical	PK
3	3338.0225	-18.13	57.98	39.85	74.00	34.15	PASS	Vertical	PK
4	4875.125	-13.46	49.38	35.92	74.00	38.08	PASS	Vertical	PK
5	7884.3256	-4.00	46.63	42.63	74.00	31.37	PASS	Vertical	PK
6	10907.5272	0.44	43.87	44.31	74.00	29.69	PASS	Vertical	PK
7	14759.784	8.24	39.04	47.28	74.00	26.72	PASS	Vertical	PK

Remark:

- 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 + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

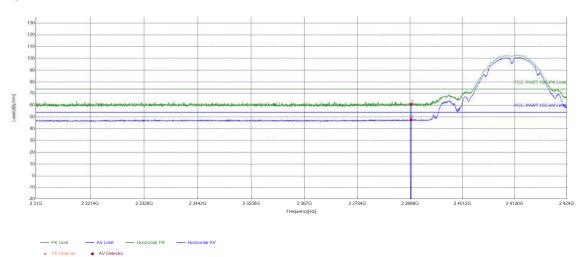




Restricted bands:

Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		



	Suspected List									
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	23.58	37.17	60.75	74.00	13.25	PASS	Horizontal	PK
	2	2390	23.58	24.11	47.69	54.00	6.31	PASS	Horizontal	AV







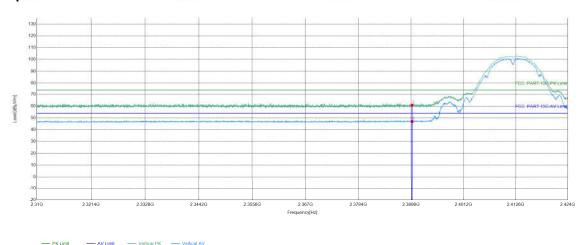




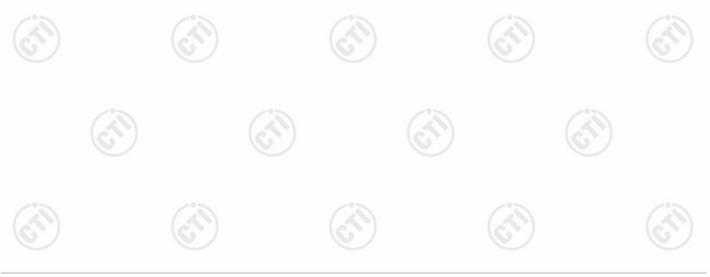




EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark		CO.	



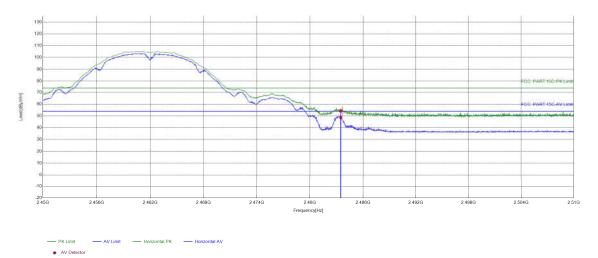
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390	23.58	37.32	60.90	74.00	13.10	PASS	Vertical	PK		
2	2390	23.58	23.41	46.99	54.00	7.01	PASS	Vertical	AV		



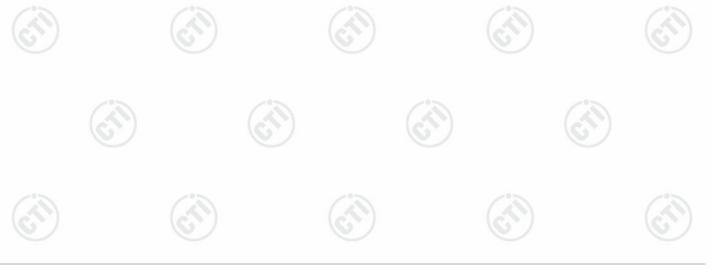


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	(0.50)	(6.25)	162
EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		(3)



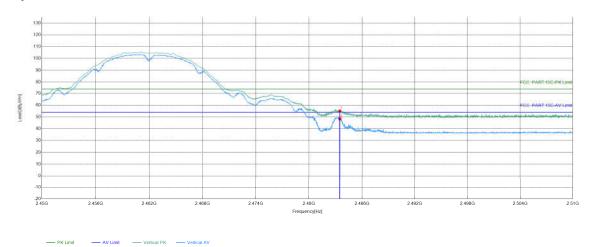
Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	15.16	39.06	54.22	74.00	19.78	PASS	Horizontal	PK	
2	2483.5	15.16	33.43	48.59	54.00	5.41	PASS	Horizontal	AV	



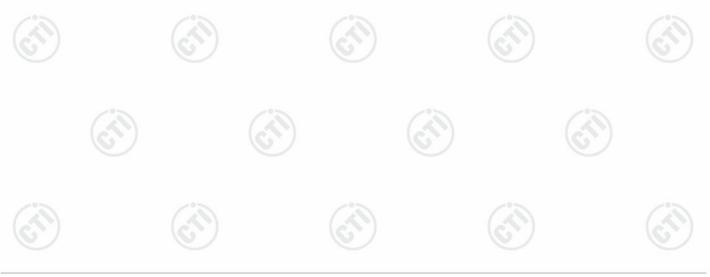




C	102	102	1627
EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Ci)



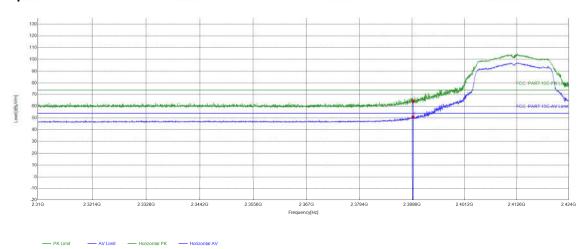
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	15.16	39.84	55.00	74.00	19.00	PASS	Vertical	PK		
2	2483.5	15.16	33.15	48.31	54.00	5.69	PASS	Vertical	AV		



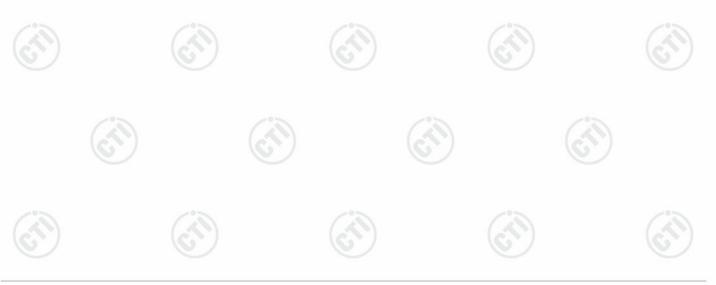




EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Ci



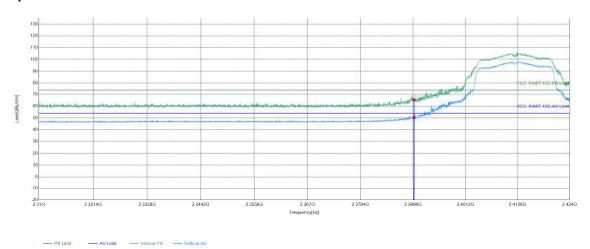
S	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2390	23.58	40.50	64.08	74.00	9.92	PASS	Horizontal	PK	
	2	2390	23.58	27.23	50.81	54.00	3.19	PASS	Horizontal	AV	



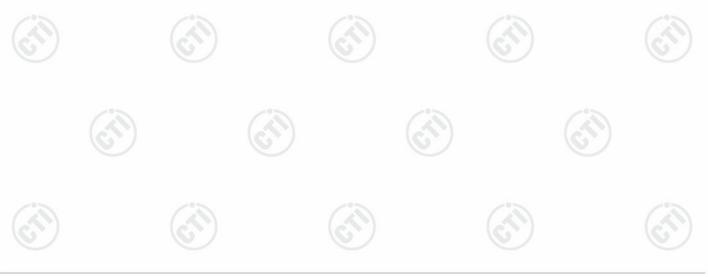


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EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Cil



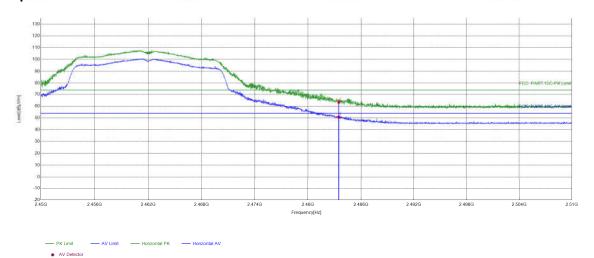
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2390	23.58	41.91	65.49	74.00	8.51	PASS	Vertical	PK	
2	2390	23.58	26.74	50.32	54.00	3.68	PASS	Vertical	AV	





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EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Cil



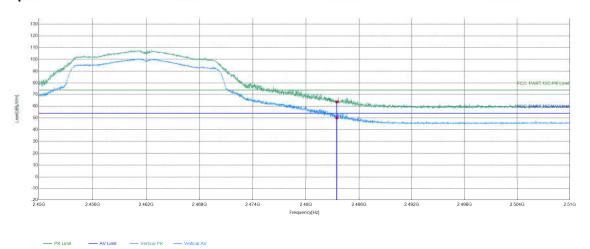
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	24.05	39.34	63.39	74.00	10.61	PASS	Horizontal	PK	
2	2483.5	24.05	26.70	50.75	54.00	3.25	PASS	Horizontal	AV	





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EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Cil



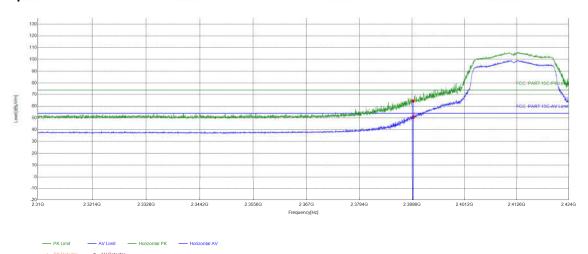
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	24.05	39.56	63.61	74.00	10.39	PASS	Vertical	PK	
2	2483.5	24.05	26.11	50.16	54.00	3.84	PASS	Vertical	AV	



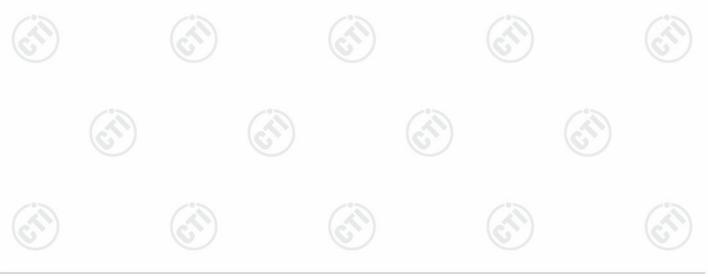


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EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Cil



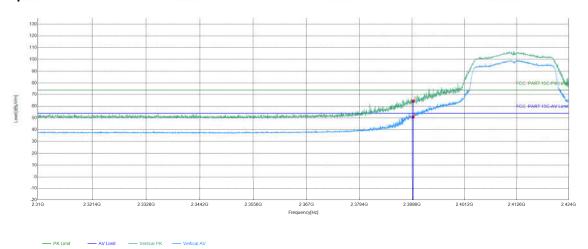
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2390	15.31	49.15	64.46	74.00	9.54	PASS	Horizontal	PK	
2	2390	15.31	35.24	50.55	54.00	3.45	PASS	Horizontal	AV	



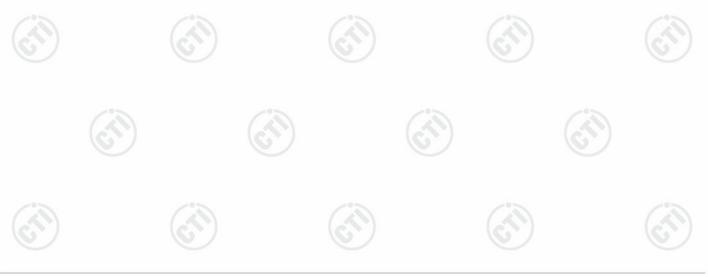


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EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		Cil



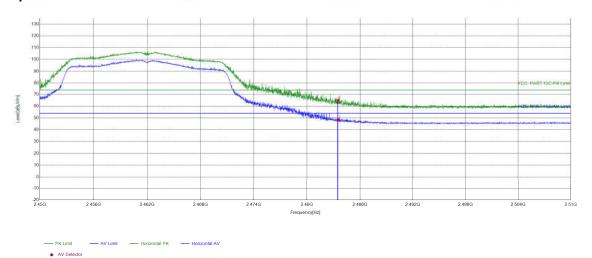
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2390	15.31	49.00	64.31	74.00	9.69	PASS	Vertical	PK	
2	2390	15.31	35.39	50.70	54.00	3.30	PASS	Vertical	AV	



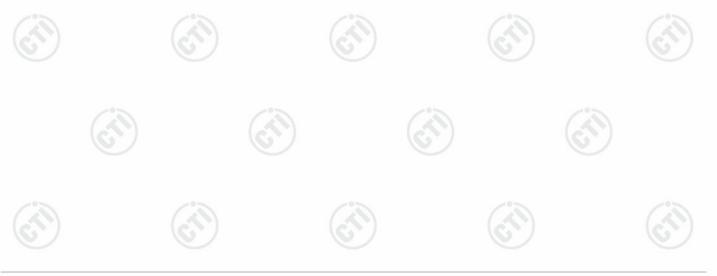


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(6.71)	(0)	(6.2	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	chenjun	Test_Date	2024/11/12
Remark	1		



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	24.05	40.73	64.78	74.00	9.22	PASS	Horizontal	PK
2	2483.5	24.05	24.19	48.24	54.00	5.76	PASS	Horizontal	AV

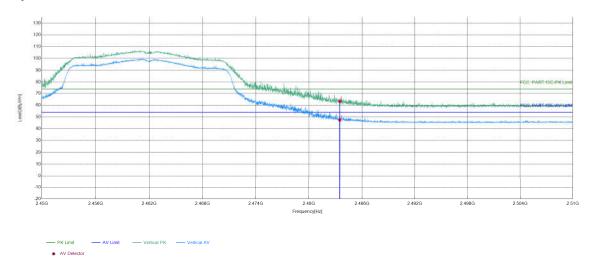




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	16.5	16.4	16.7		
EUT_Name		Test_Model			
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz		
Tset_Engineer	chenjun	Test_Date	2024/11/12		
Remark	1				

Test Graph



Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	24.05	39.30	63.35	74.00	10.65	PASS	Vertical	PK		
2	2483.5	24.05	23.31	47.36	54.00	6.64	PASS	Vertical	AV		

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















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7 Appendix 2.4G Wi-Fi

Refer to Appendix: 2.4G Wi-Fi of EED32Q81688503















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9 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32Q81688501 for EUT external and internal photos.

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