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TEST REPORT

SenseCAP Watcher **Product**

Trade mark Seeed Studio Model/Type reference : W1-A, W1-B

Serial Number : N/A

EED32Q80844502 Report Number **FCC ID** : Z4T-WATCHER

Date of Issue : Jul. 29, 2024

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Seeed Technology Co., Ltd 9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C

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: pproved by Report Seal

Leven lan. Keven Tan

avon Ma

Aaron Ma

Date:

Reviewed by:

Frazer Li

Jul. 29, 2024

Check No.: 6211180624







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3 Version

Version No.	Version No. Date Description			
00	Jul. 29, 2024	Original		
	**			
((2)	(92)	(5,2)	(677)





































































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4 Test Summary

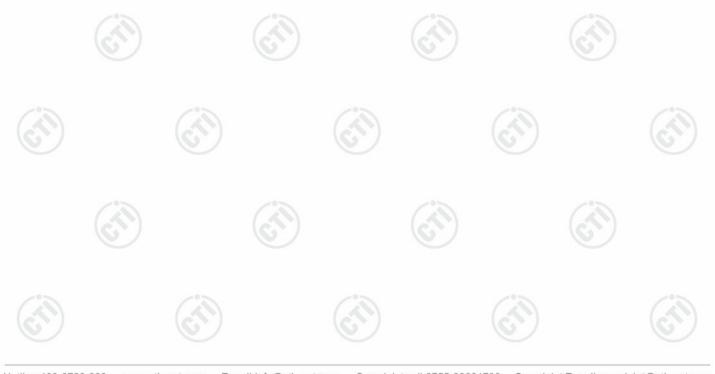
Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207		
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)		
Maximum Conducted Output Power	47 CFR Part 15 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.

Model No.: W1-A, W1-B

Only the model W1-A was tested. Their electrical circuit design, layout, components used and internal wiring are identical. Only the color of the shell is different.







General Information

5.1 Client Information

Applicant:	Seeed Technology Co., Ltd		
Address of Applicant: 9F, G3 Building, TCL International E City, Zhongshanyuan Road District, Shenzhen, Guangdong Province, P.R.C			
Manufacturer:	Seeed Technology Co., Ltd		
Address of Manufacturer:	9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C		
Factory:	Shenzhen Xinxian Technology Co.,Limited.		
Address of Factory:	F5, Building B17, Hengfeng Industrial City,No. 739 Zhoushi Rd, Baoan District, Shenzhen,Guangdong, P.R.C.		

5.2 General Description of EUT

SenseCAP W	/atcher					
W1-A, W1-B	C:	Ci				
W1-A	(6,2)	(0,1)	(6,)			
Seeed Studio						
☐ Mobile	☐ Portable	ixed Location				
	IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz					
IEEE for 802.	11g:OFDM(64QAM	I, 16QAM, QPSK, BPSK)				
5MHz	(6.)	(6.)	6.			
FPC Antenna						
2.38dBi						
Battery:	DC 3.7V		(i)			
DC 5V	(0)		5)			
Jul. 02, 2024						
Jul. 02, 2024 to Jul. 09, 2024						
	W1-A, W1-B W1-A Seeed Studio ☐ Mobile IEEE 802.11t IEEE for 802. IEEE for 802. IEEE for 802. IEEE 802.11t IEEE 802.11t IEEE A02.11t IEEE 802.11t IEEE 802.11t IEEE 802.11t IEEE 802.11t SMHz FPC Antenna 2.38dBi Battery: DC 5V Jul. 02, 2024	W1-A Seeed Studio Mobile Portable F IEEE 802.11b/g/n(HT20)/ax(HE20): 2 IEEE 802.11n(HT40)/ax(HE40): 2 IEEE for 802.11b: DSSS(CCK,DC) IEEE for 802.11g :OFDM(64QAM) IEEE for 802.11n(HT20 and HT40) IEEE 802.11b/g, IEEE 802.11n H IEEE 802.11n(HT40): 7 Channels 5MHz FPC Antenna 2.38dBi Battery: DC 3.7V DC 5V Jul. 02, 2024	W1-A, W1-B W1-A Seeed Studio ☐ Mobile ☐ Portable ☒ Fixed Location IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16Q IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n(HT40): 7 Channels 5MHz FPC Antenna 2.38dBi Battery: DC 3.7V DC 5V Jul. 02, 2024			













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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channe	el Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	")	(0)
Operation	Frequency ea	ch of channe	el (802.11n HT	40)			
Channe	Frequ	ency	Channel	Frequenc	cy Cha	annel	Frequency
3	2422	MHz	6	2437MH	z	9	2452MHz
4	2427	MHz	7	2442MH	Z		
E	2422	NAL 1—	0	24471411	_		

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

802.11n (HT40):

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The highest channel	2452MHz





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5.3 Test Configuration

EUT Test Software Settings:					
Software:	ESP32	-0-	-0-		
EUT Power Grade:	Default	(40)	(20)		
11 1 1 1 1	1 16 11 11 6	10 11 16	10.40		

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)	6.5Mbps
802.11n(HT40)	13.5Mbps

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, 6.5Mbps for 802.11n(HT20) and 6.5Mbps for 802.11n(HT40).







5.4 Test Environment

	Operating Environment	::					
	Radiated Spurious Emi	Radiated Spurious Emissions:					
10	Temperature:	22~25.0 °C	(4)		(41)		(4)
	Humidity:	50~55 % RH	0		(0)		(0)
	Atmospheric Pressure:	1010mbar					
	Conducted Emissions:						
	Temperature:	22~25.0 °C		(2)		(30)	
	Humidity:	50~55 % RH		(0,)		(0,)	
	Atmospheric Pressure:	1010mbar					
	RF Conducted:						
	Temperature:	22~25.0 °C	(°)		(3)		
(i	Humidity:	50~55 % RH	(5,2)		(6,7)		(6,7)
	Atmospheric Pressure:	1010mbar					

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

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

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

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

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

No tests were sub-contracted. FCC Designation No.: CN1164

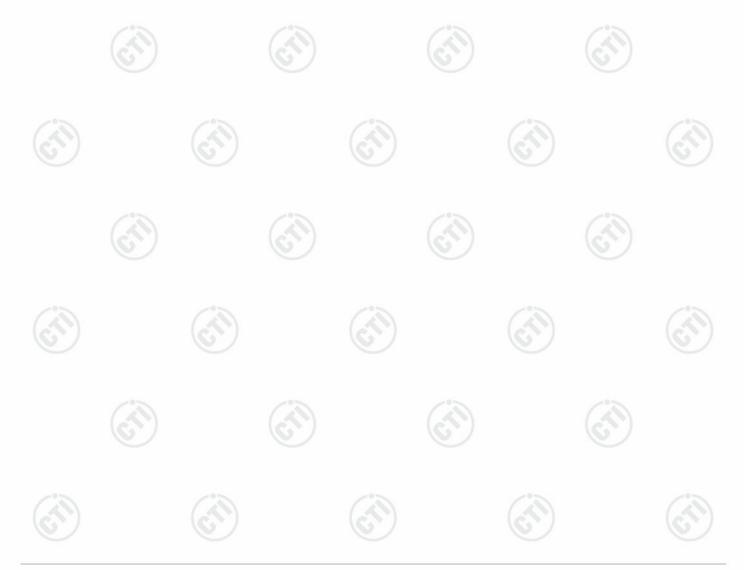






5.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
_	DE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	6	3.3dB (9kHz-30MHz)
	Dadiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	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%







6 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-05-2023	09-04-2024
Spectrum Analyzer	R&S	FSV40	101200	07-25-2023	07-24-2024
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	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		- (3
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025

Conducted disturbance Test						
			Serial	Cal. date	Cal. Due date	
Equipment	Manufacturer	Model No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)	
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025	
Temperature/ Humidity Indicator	Defu	TH128	1	04-25-2024	04-24-2025	
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024	
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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					100
	3M Semi-an	echoic Chamber (2)	- Radiated disturb	ance Test	
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/22/2023	09/21/2024
Spectrum Analyzer	R&S	FSV40	101200	07/25/2023	07/24/2024
TRILOG	6)		6	
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.SYSTEM S	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		
Cable line	Fulai(7M)	SF106	5219/6A	(D_
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A		(
Cable line	Fulai(3M)	SF106	5217/6A		













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	7	The state of the s					
	3M full-anechoic Chamber						
Equipment	Manufacturer Model No.		Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	<u> </u>			
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025		
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	01-18-2025		
Spectrum Analyzer TRILOG	Keysight	N9030B	MY57140871	01-13-2024	01-12-2025		
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	07-04-2021 07-03-2024	07-03-2024 07-02-2025		
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024		
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025		
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024		
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024		
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025		
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027		
Cable line	Times	SFT205-NMSM-2.50M	394812-0001				
Cable line	Times	SFT205-NMSM-2.50M	394812-0002				
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		-(d)		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001				
Cable line	Times	EMC104-NMNM-1000	SN160710	/0-			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(6	•)		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001				
Cable line	Times	SFT205-NMSM-7.00M	394815-0001				
Cable line	Times	HF160-KMKM-3.00M	393493-0001	(c^*)	<u> </u>		

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





7 Test results and Measurement Data

7.1 Antenna Requirement

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

15.203 requirement:

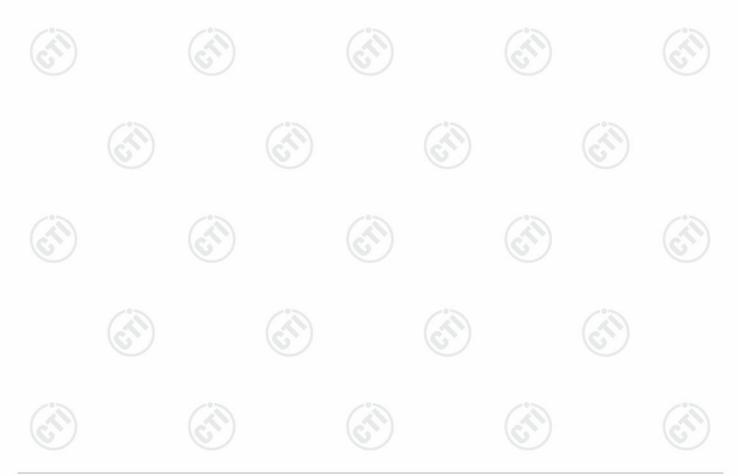
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 External antenna. The best case gain of the antenna is 2.38dBi.





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7.2 AC Power Line Conducted Emissions

1.2	11.202.74	onauctea Emission		(~4")
	Test Requirement:	47 CFR Part 15C Section 15.2	207	
	Test Method:	ANSI C63.10: 2013		
	Test Frequency Range:	150kHz to 30MHz		
e)	Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	weep time=auto	
	Limit:	Frequency range (MHz)	Limit (d	lBuV)
		1 requeries range (WHZ)	Quasi-peak	Average
		0.15-0.5	66 to 56*	56 to 46*
		0.5-5	56	46
		5-30	60	50
	Test Setup:	* Decreases with the logarithr	n of the frequency.	
		Shielding Room EUT AC Mains LISN1	AE LISN2 + AC Mai	Test Receiver
5	Test Procedure:	The mains terminal disturb	pance 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 plane.	to AC power source letwork) which provides cables of all other SN 2, which was bonde as the LISN 1 for the was used to connect rating of the LISN was naced upon a non-meta	through a LISN 1 (Line is a $50\Omega/50\mu\text{H} + 5\Omega$ linear units of the EUT were id to the ground reference unit being measured. A multiple power cables to a not exceeded.
		ground reference plane. A placed on the horizontal ground reference with the EUT shall be 0.4 m vertical ground reference reference plane. The LIST unit under test and bor mounted on top of the ground associated equipment and all of the interface car ANSI C63.10: 2013 on cor	and for floor-standing arround reference plane. It is a vertical ground reference plane was bonded to a ground reference plane. The LISN 1 and the EUT. At was at least 0.8 m fror um emission, the relative bles must be changed and ucted measurement.	erence plane. The rear of and reference plane. The to the horizontal ground from the boundary of the terence plane for LISNs his distance was between all other units of the EUT in the LISN 2. We positions of equipment according to
	Test Mode:	All modes were tested, only the 802.11b was recorded in the i		hannel of 1Mbps for

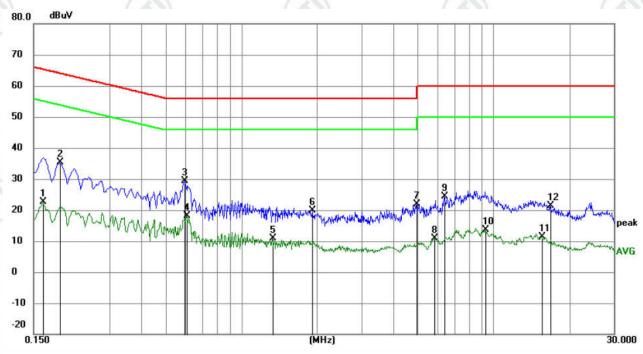




lest Results: Pass	Test Results:	Pass
----------------------	---------------	------

Measurement Data

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1635	12.63	9.88	22.51	55.28	-32.77	AVG		
2		0.1905	25.37	9.91	35.28	64.01	-28.73	QP		
3	*	0.5955	19.86	9.60	29.46	56.00	-26.54	QP		
4		0.6045	8.50	9.61	18.11	46.00	-27.89	AVG		
5		1.3290	1.05	9.74	10.79	46.00	-35.21	AVG		
6		1.9140	10.14	9.75	19.89	56.00	-36.11	QP		
7		4.9380	11.92	9.84	21.76	56.00	-34.24	QP		
8		5.8200	1.03	9.84	10.87	50.00	-39.13	AVG		
9		6.3555	14.58	9.85	24.43	60.00	-35.57	QP		
10		9.2534	3.69	9.83	13.52	50.00	-36.48	AVG		
11		15.4815	1.48	9.87	11.35	50.00	-38.65	AVG		
12		16.7549	11.44	9.92	21.36	60.00	-38.64	QP		

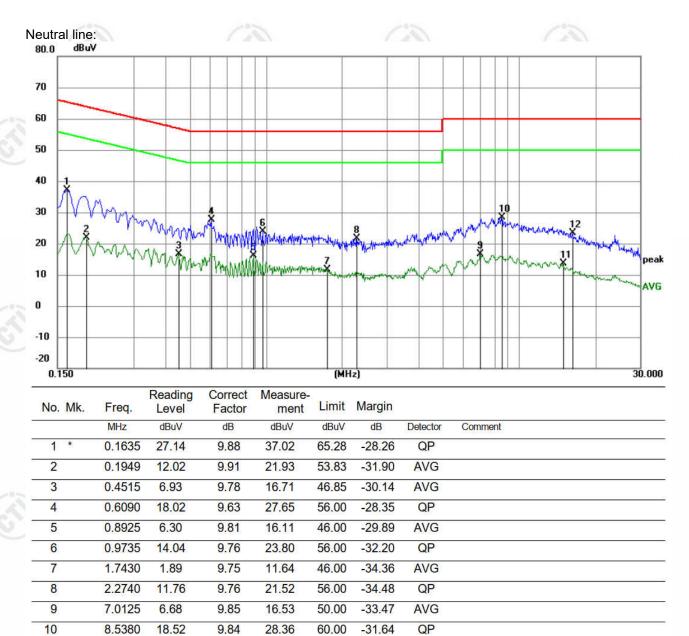
Remark:

- 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:

11

12

1. The following Quasi-Peak and Average measurements were performed on the EUT:

13.62

23.27

Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

9.85

9.90

3. If the Peak value under Average limit, the Average value is not recorded in the report.





3.77

13.37



50.00

60.00

-36.38

-36.73

AVG

QP





14.9010

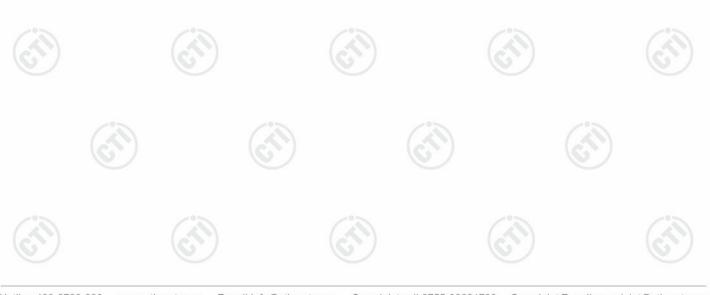
16.2420





7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10 2013				
Test Setup:					
	Control Computer Control Contr				
Test Procedure:	 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. 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				







7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Control Control Power Supph Power Supph Attenuator Table RF test System Instrument 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







7.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e	
Test Method:	ANSI C63.10 2013	,
Test Setup:		
	Control Computer Power Supply TemPERATURE CABRIET Table	RF test System Instrument
	Remark: Offset=Cable loss+ attenua	ation factor.
Test Procedure:	within the RBW.	S bandwidth.
Limit:	≤8.00dBm/3kHz	
Test Mode:	Refer to clause 5.3	-0-
Test Results:	Refer to Appendix 2.4G Wi-Fi	

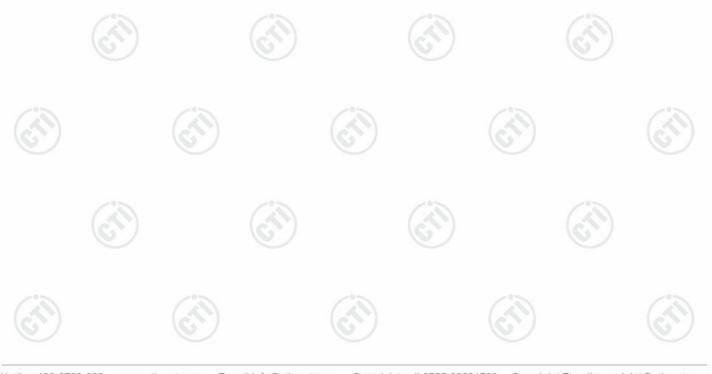






7.6 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Power Power Poort Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	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.
 Limit:	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.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

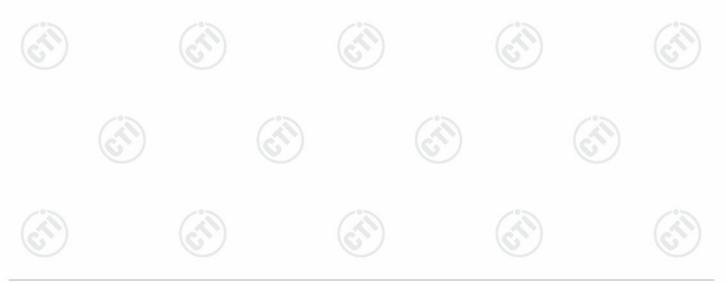






7.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	6					
Test Method:	ANSI C63.10 2013	3.10 2013 ment Distance: 3m (Semi-Anechoic Chamber)								
Test Site:	Measurement Distance	: 3m	(Semi-Anech	noic Cham	ber)	-61				
Receiver Setup:	Frequency	Frequency Detector RBW VBW		VBW	Remark					
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MH	Z	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MH	Z	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak				
	Ah 4011-	Peak		1MHz	3MHz	Peak				
	Above 1GHz		Peak	1MHz	10kHz	Average				
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/%	300				
	0.490MHz-1.705MHz	24	000/F(kHz)	-	(()	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	9	200	46.0	Quasi-peak	3				
	960MHz-1GHz	1	500	54.0	Quasi-peak	3				
	Above 1GHz		500	54.0	Average	3				
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	B above the i	maximum est. This p	permitted ave	erage emission				







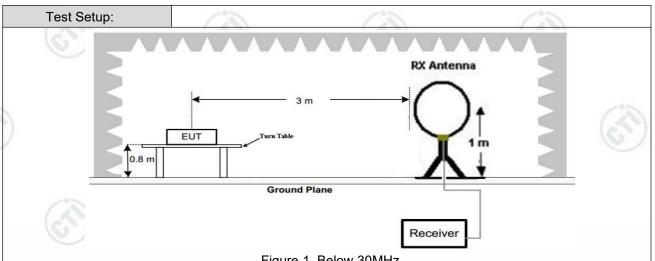
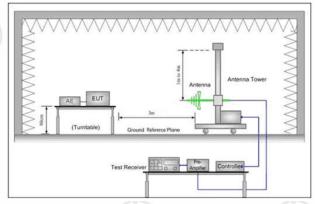


Figure 1. Below 30MHz



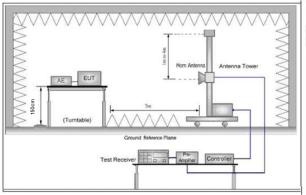


Figure 2. 30MHz to 1GHz

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:

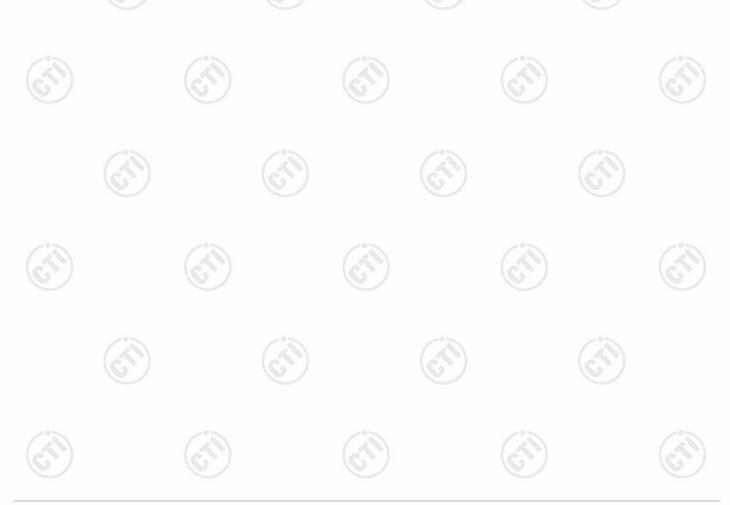
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.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



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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.







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: **Test Graph** 72.0 dBuV/m 62 52 42 32 22 12 2 -8 -18 -28 -38 (MHz) 500 700 1000.0 30 000 400 Reading Table Correct Measure-Antenna Limit Margin No. Mk. Freq. Degree Level Factor ment Height MHz dBuV dB/m dBuV/m dBuV/m dB Detector degree Comment cm 8.82 12.91 21.73 40.00 -18.27 352 1 31.8762 QP 100 2 55.2400 9.26 13.69 22.95 40.00 -17.05 QP 100 146 5.70 3 13.39 19.09 43.50 QP 199 185 98.9365 -24.41 4 216.7068 4.92 13.37 18.29 46.00 -27.71 QP 199 248 5 304.1830 7.25 16.75 24.00 46.00 -22.00 QP 100 136 878.0135 1.03 27.06 28.09 46.00 -17.91 100 352 6 QP







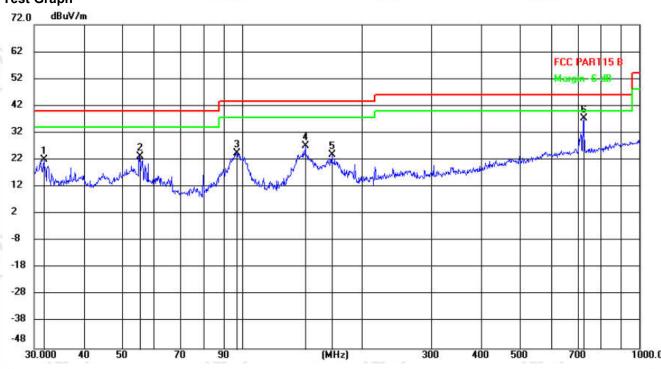












No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	31.8037	9.06	12.90	21.96	40.00	-18.04	QP	200	352	
2	55.2401	9.56	13.69	23.25	40.00	-16.75	QP	200	217	
3	96.9276	11.42	13.09	24.51	43.50	-18.99	QP	100	71	
4	144.4360	17.37	9.64	27.01	43.50	-16.49	QP	100	304	
5	168.5615	12.22	11.51	23.73	43.50	-19.77	QP	100	294	
6 *	724.2611	12.76	24.60	37.36	46.00	-8.64	QP	100	7	































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Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case was recorded in the report.

٦.	7.1						1000			1
	Mode	:	8	302.11 b Tran	smitting		Channe	el:	2412MH:	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1411.0411	8.19	37.89	46.08	74.00	27.92	PASS	Н	PK
	2	1984.0984	8.99	36.94	45.93	74.00	28.07	PASS	Н	PK
	3	3196.0131	-18.51	56.92	38.41	74.00	35.59	PASS	Н	PK
	4	4824.1216	-13.45	67.39	53.94	74.00	20.06	PASS	Н	PK
_	5	7216.2811	-7.70	47.40	39.70	74.00	34.30	PASS	Н	PK
	6	13429.6953	4.81	40.69	45.50	74.00	28.50	PASS	Н	PK
	7	1349.2349	7.97	37.30	45.27	74.00	28.73	PASS	V	PK
	8	2081.9082	9.44	36.90	46.34	74.00	27.66	PASS	V	PK
	9	3216.0144	-18.43	58.63	40.20	74.00	33.80	PASS	V	PK
	10	4824.1216	-13.45	63.45	50.00	74.00	24.00	PASS	V	PK
Ī	11	7403.2936	-6.56	46.99	40.43	74.00	33.57	PASS	V	PK
Ī	12	13013.6676	2.19	43.07	45.26	74.00	28.74	PASS	V	PK

M	Mode:			802.11 b Tran	smitting		Channe	el:	2437MH	Z
N	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1385.6386	8.16	37.21	45.37	74.00	28.63	PASS	Н	PK
	2	1937.8938	8.97	36.62	45.59	74.00	28.41	PASS	Н	PK
	3	3249.0166	-18.28	55.62	37.34	74.00	36.66	PASS	Н	PK
	4	4874.1249	-13.46	66.25	52.79	74.00	21.21	PASS	Н	PK
	5	8049.3366	-3.53	45.79	42.26	74.00	31.74	PASS	Н	PK
	6	12622.6415	0.86	44.09	44.95	74.00	29.05	PASS	Н	PK
	7	1331.8332	7.88	37.54	45.42	74.00	28.58	PASS	V	PK
	8	1951.8952	8.97	38.14	47.11	74.00	26.89	PASS	V	PK
	9	3249.0166	-18.28	61.77	43.49	74.00	30.51	PASS	V	PK
1	10	4874.1249	-13.46	65.57	52.11	74.00	21.89	PASS	V	PK
1	11	6705.247	-7.73	46.94	39.21	74.00	34.79	PASS	V	PK
1	12	12168.6112	0.64	44.41	45.05	74.00	28.95	PASS	V	PK













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_										
١	Mode	:		802.11 b Tran	smitting		Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1770.477	8.48	38.58	47.06	74.00	26.94	PASS	Н	PK
	2	3283.0189	-18.13	57.54	39.41	74.00	34.59	PASS	Н	PK
	3	4924.1283	-13.42	65.15	51.73	74.00	22.27	PASS	Н	PK
Ī	4	7363.2909	-6.65	46.88	40.23	74.00	33.77	PASS	Н	PK
	5	10464.4976	-0.85	43.52	42.67	74.00	31.33	PASS	Н	PK
	6	13678.7119	5.33	40.68	46.01	74.00	27.99	PASS	Н	PK
	7	1220.6221	7.94	37.77	45.71	74.00	28.29	PASS	V	PK
	8	1811.8812	8.52	36.85	45.37	74.00	28.63	PASS	V	PK
	9	3283.0189	-18.13	61.37	43.24	74.00	30.76	PASS	V	PK
J	10	4924.1283	-13.42	63.18	49.76	74.00	24.24	PASS	V	PK
9	11	6972.2648	-7.16	46.26	39.10	74.00	34.90	PASS	V	PK
٦	12	14752.7835	8.16	40.35	48.51	74.00	25.49	PASS	V	PK

Mode	Mode:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2422MH:	Z
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1358.4358	8.01	37.29	45.30	74.00	28.70	PASS	Н	PK
2	1767.8768	8.48	37.77	46.25	74.00	27.75	PASS	Н	PK
3	3190.0127	-18.55	57.04	38.49	74.00	35.51	PASS	Н	PK
4	4848.1232	-13.45	59.05	45.60	74.00	28.40	PASS	Н	PK
5	6800.2534	-7.88	47.01	39.13	74.00	34.87	PASS	Н	PK
6	12163.6109	0.61	43.46	44.07	74.00	29.93	PASS	Н	PK
7	1240.424	7.89	37.68	45.57	74.00	28.43	PASS	V	PK
8	1846.8847	8.69	37.01	45.70	74.00	28.30	PASS	V	PK
9	3229.0153	-18.37	59.32	40.95	74.00	33.05	PASS	V	PK
10	4845.123	-13.45	58.11	44.66	74.00	29.34	PASS	V	PK
11	7825.3217	-3.96	46.79	42.83	74.00	31.17	PASS	V	PK
12	14151.7434	7.28	39.32	46.60	74.00	27.40	PASS	V	PK













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_	20%			200			100	9.50		
ı	Mode	:		802.11 n(HT4	0) Transmitt	ing	Channe	el:	2437MH:	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1156.8157	7.54	38.46	46.00	74.00	28.00	PASS	Н	PK
3	2	1637.6638	8.20	37.45	45.65	74.00	28.35	PASS	Н	PK
	3	3250.0167	-18.27	58.42	40.15	74.00	33.85	PASS	Н	PK
	4	4879.1253	-13.46	58.11	44.65	74.00	29.35	PASS	Н	PK
	5	8112.3408	-2.89	45.51	42.62	74.00	31.38	PASS	Н	PK
	6	14214.7476	7.03	39.27	46.30	74.00	27.70	PASS	Н	PK
	7	1361.4361	8.04	37.35	45.39	74.00	28.61	PASS	V	PK
	8	1892.2892	8.93	37.52	46.45	74.00	27.55	PASS	V	PK
	9	3249.0166	-18.28	60.19	41.91	74.00	32.09	PASS	V	PK
	10	4881.1254	-13.47	57.40	43.93	74.00	30.07	PASS	V	PK
	11	8077.3385	-3.10	46.00	42.90	74.00	31.10	PASS	V	PK
6	12	14191.7461	7.16	39.87	47.03	74.00	26.97	PASS	V	PK

Mode	:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2452MH:	Z
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1131.4131	7.26	38.98	46.24	74.00	27.76	PASS	Н	PK
2	1655.0655	8.29	37.23	45.52	74.00	28.48	PASS	Н	PK
3	3199.0133	-18.50	58.15	39.65	74.00	34.35	PASS	Н	PK
4	4908.1272	-13.45	59.24	45.79	74.00	28.21	PASS	Н	PK
5	7313.2876	-6.74	46.66	39.92	74.00	34.08	PASS	Н	PK
6	14150.7434	7.28	38.83	46.11	74.00	27.89	PASS	Н	PK
7	1289.0289	7.75	38.08	45.83	74.00	28.17	PASS	V	PK
8	1757.8758	8.49	37.09	45.58	74.00	28.42	PASS	V	PK
9	3269.0179	-18.19	61.19	43.00	74.00	31.00	PASS	V	PK
10	4904.1269	-13.46	58.63	45.17	74.00	28.83	PASS	V	PK
11	6799.2533	-7.88	47.43	39.55	74.00	34.45	PASS	V	PK
12	11691.5794	-0.14	43.94	43.80	74.00	30.20	PASS	V	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.











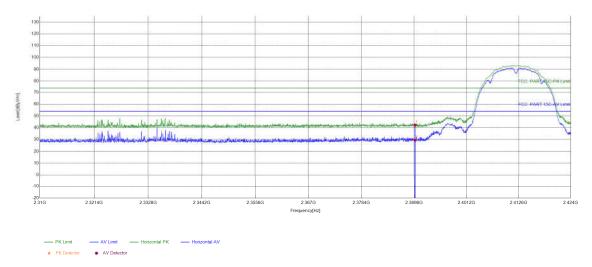




Restricted bands:

Test plot as follows:

Test_Mode	802.11 b Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



	0	al I !a4							7	
	Suspecte	a List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Γ	1	2390	4.79	37.57	42.36	74.00	31.64	PASS	Horizontal	PK
	2	2390	4.79	24.70	29.49	54.00	24.51	PASS	Horizontal	AV







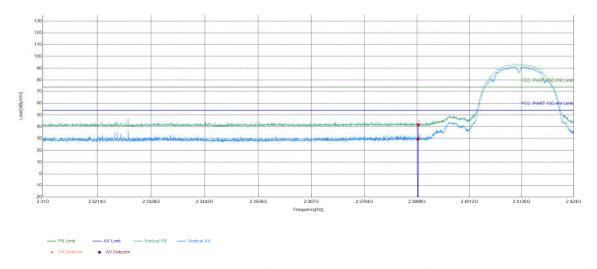




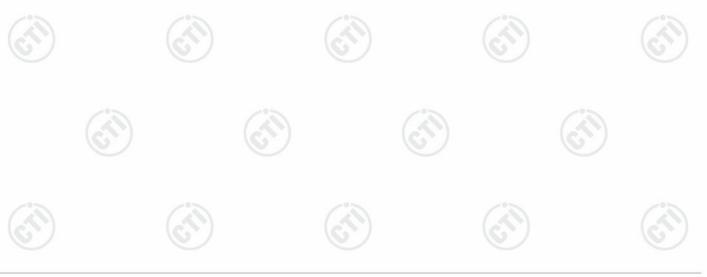




6.70	(6.5)	(6.2	(6.5)
Test_Mode	802.11 b Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



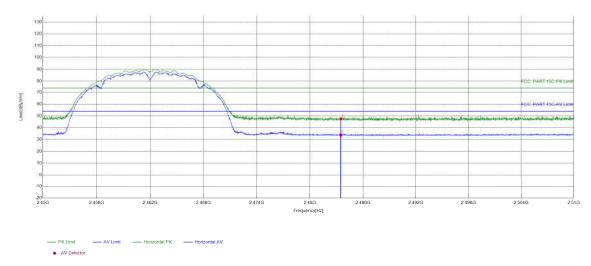
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	36.92	41.71	74.00	32.29	PASS	Vertical	PK
2	2390	4.79	24.66	29.45	54.00	24.55	PASS	Vertical	AV



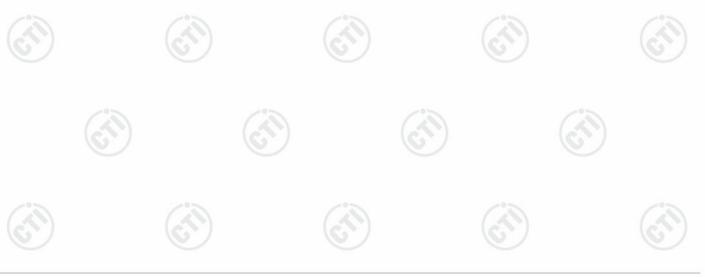




6.70	(6.30)	(6.7	(6.5)
Test_Mode	802.11 b Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



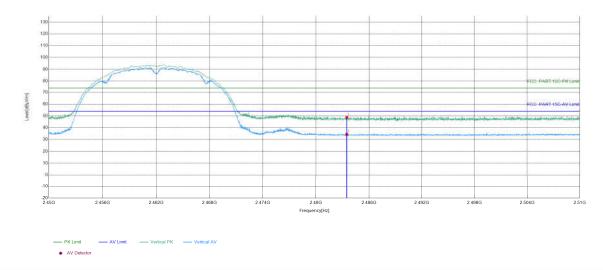
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	37.16	47.54	74.00	26.46	PASS	Horizontal	PK
2	2483.5	10.38	23.43	33.81	54.00	20.19	PASS	Horizontal	AV



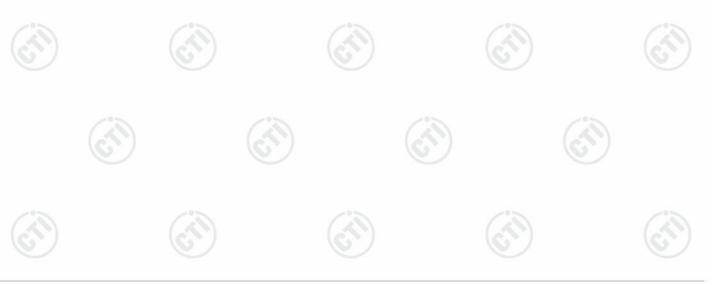




Test_Mode	802.11 b Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



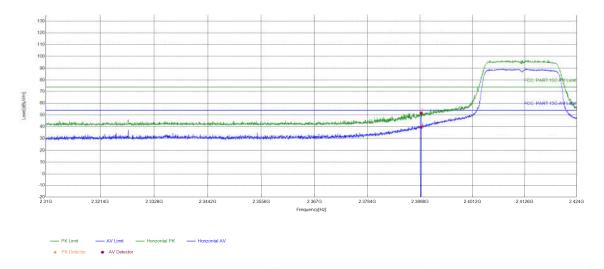
a .											
	Suspected List										
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2483.5	10.38	38.28	48.66	74.00	25.34	PASS	Vertical	PK	
	2	2483.5	10.38	23.95	34.33	54.00	19.67	PASS	Vertical	AV	



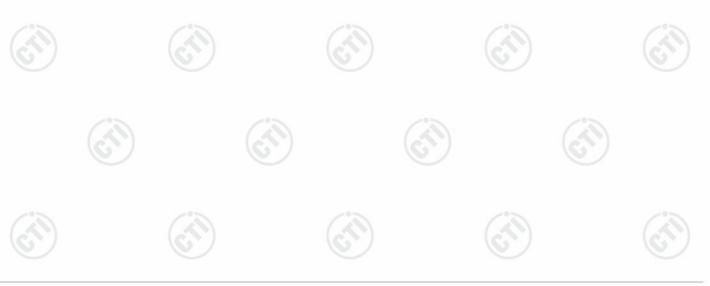




Test_Mode	802.11 g Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



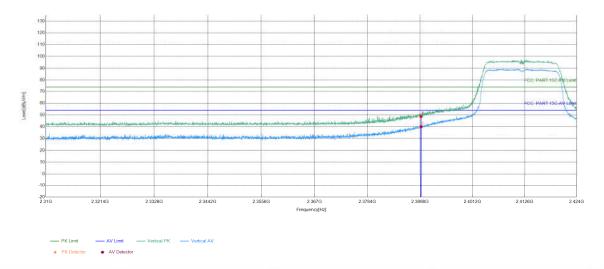
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	46.91	51.70	74.00	22.30	PASS	Horizontal	PK
2	2390	4.79	34.83	39.62	54.00	14.38	PASS	Horizontal	AV



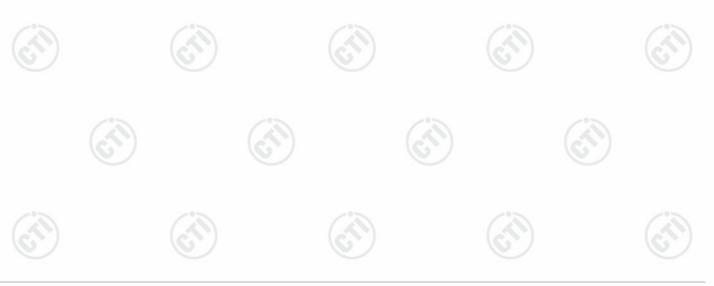




Test_Mode	802.11 g Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



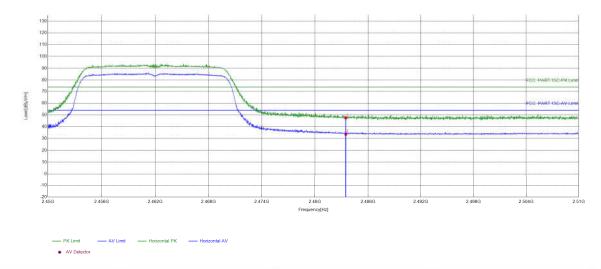
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	43.97	48.76	74.00	25.24	PASS	Vertical	PK
2	2390	4.79	35.21	40.00	54.00	14.00	PASS	Vertical	AV



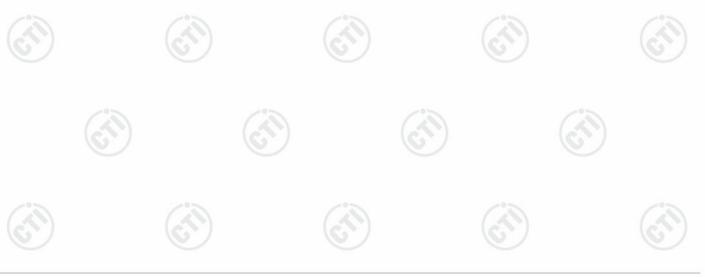




Test_Mode	802.11 g Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



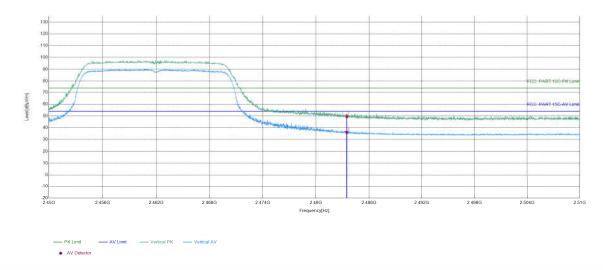
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	10.38	37.16	47.54	74.00	26.46	PASS	Horizontal	PK
	2	2483.5	10.38	23.38	33.76	54.00	20.24	PASS	Horizontal	AV



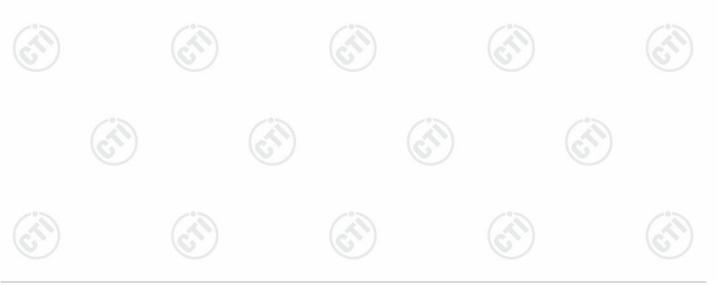




6.0	(0)	(C)	16.3
Test_Mode	802.11 g Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	\		



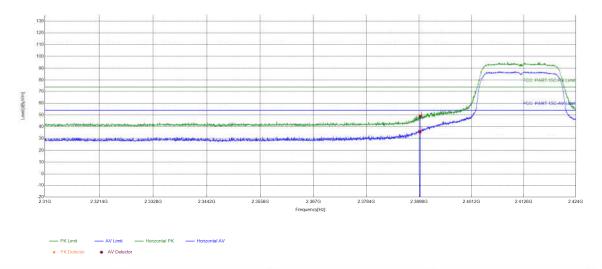
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	39.16	49.54	74.00	24.46	PASS	Vertical	PK
2	2483.5	10.38	25.74	36.12	54.00	17.88	PASS	Vertical	AV



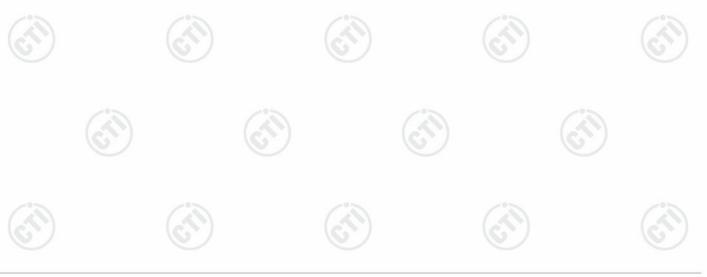




6.70	102	100	1627
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	\		



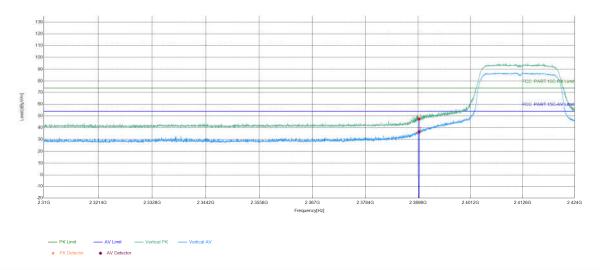
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	44.22	49.01	74.00	24.99	PASS	Horizontal	PK
2	2390	4.79	30.91	35.70	54.00	18.30	PASS	Horizontal	AV



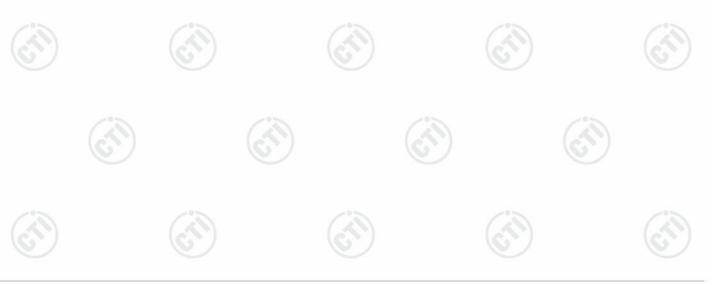




Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



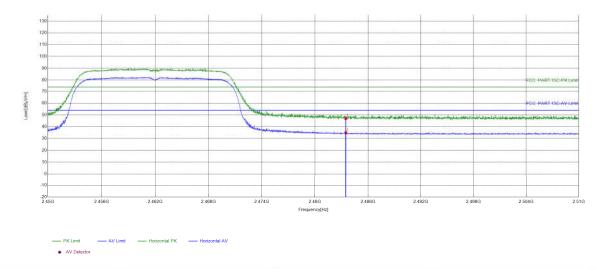
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	42.82	47.61	74.00	26.39	PASS	Vertical	PK
2	2390	4.79	31.77	36.56	54.00	17.44	PASS	Vertical	AV



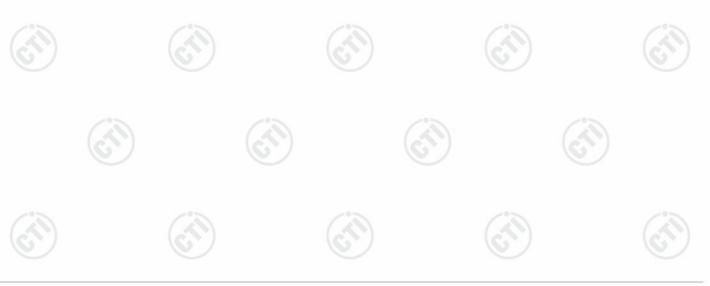


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C> 1	1657	(6,5)	(6)
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	\		



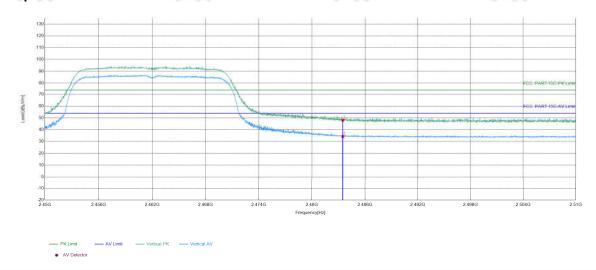
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	10.38	36.62	47.00	74.00	27.00	PASS	Horizontal	PK
	2	2483.5	10.38	24.45	34.83	54.00	19.17	PASS	Horizontal	AV



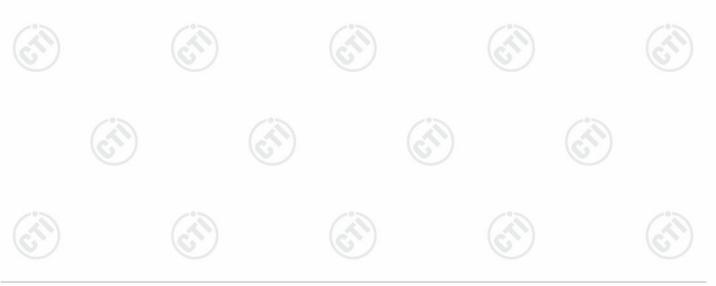




Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



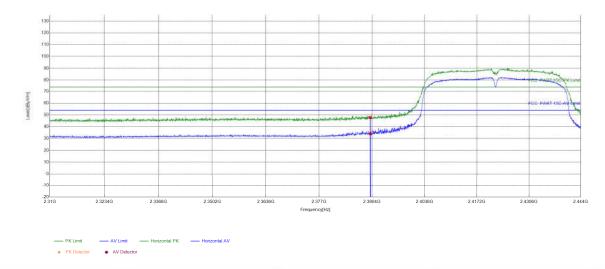
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	10.38	37.70	48.08	74.00	25.92	PASS	Vertical	PK
	2	2483.5	10.38	23.95	34.33	54.00	19.67	PASS	Vertical	AV



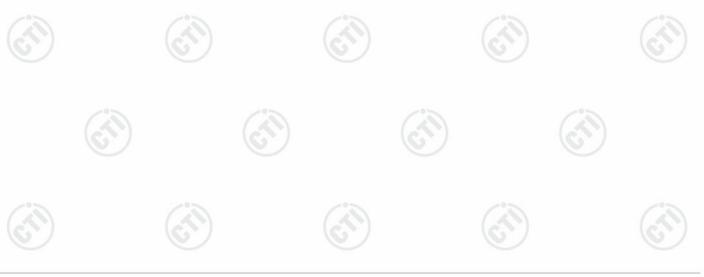




Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		



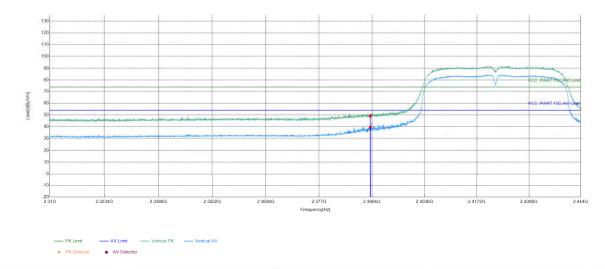
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	37.89	47.85	74.00	26.15	PASS	Horizontal	PK
2	2390	9.96	24.04	34.00	54.00	20.00	PASS	Horizontal	AV



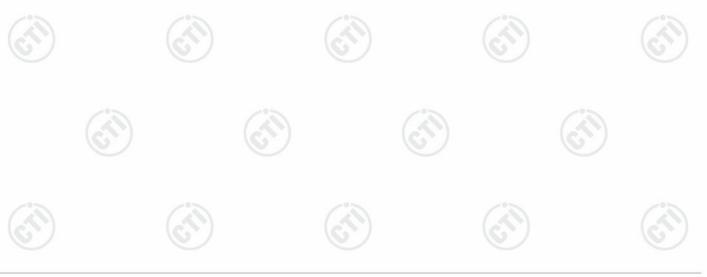




6.70	(6.7)	100	1627
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	\		



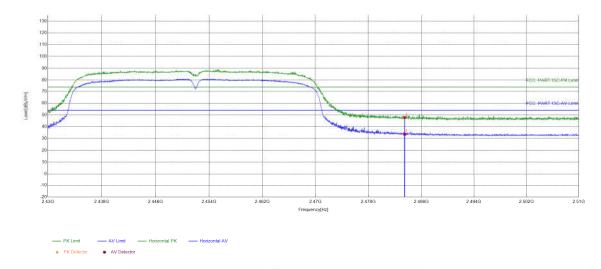
Suspecte	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	39.19	49.15	74.00	24.85	PASS	Vertical	PK
2	2390	9.96	29.56	39.52	54.00	14.48	PASS	Vertical	AV



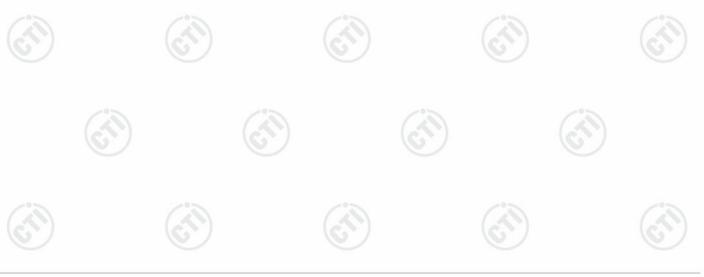




6.70	10.7	10.7	1627		
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452		
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09		
Remark	1				



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.77	37.07	47.84	74.00	26.16	PASS	Horizontal	PK
2	2483.5	10.77	22.87	33.64	54.00	20.36	PASS	Horizontal	AV
10	. 7		10.7		100.7			6.7	

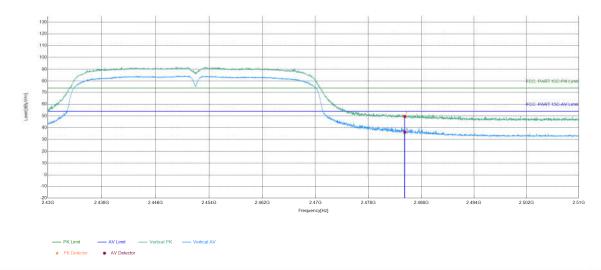




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6.7	(0.5)	(6.74)	(6.3)
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452
Tset_Engineer	Aiden.wang	Test_Date	2024/07/09
Remark	1		

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	10.77	38.91	49.68	74.00	24.32	PASS	Vertical	PK
	2	2483.5	10.77	25.53	36.30	54.00	17.70	PASS	Vertical	AV

Note:

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

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor













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8 Appendix 2.4G Wi-Fi























































































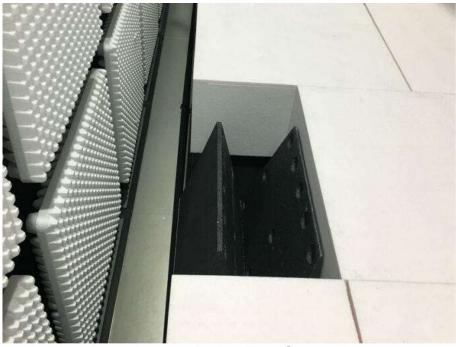








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Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.



Conducted Emissions Test Setup













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10 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32Q80844501 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

