



TEST REPORT

Product **Trade mark**

Tablet PC 2

CHUWI

Μ	lodel/Type reference	-	Hi10 XPro,CWI520,CWI536,CWI555,
			CWI598, CWI637, CWI638, CWI639,
			CWI640, CWI6641, CWI642
S	erial Number	:	N/A
R	eport Number	:	EED32P81581403
F	CC ID	:	2AHLZ-HI10XPRO
D	ate of Issue	1	Oct. 30, 2023
Т	est Standards	- (c	47 CFR Part 15 Subpart C
T	est result	÷	PASS

Prepared for: CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED 2 Floor Building 3 LiJinCheng Industrial park the east of Gongye road LongHua, 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 Tom mark. che Compiled by: Reviewed by: RNATIC Tom Chen Mark Chen civon / Oct. 30, 2023 Date: Aaron Ma Check No.: 4418071023 Report Seal

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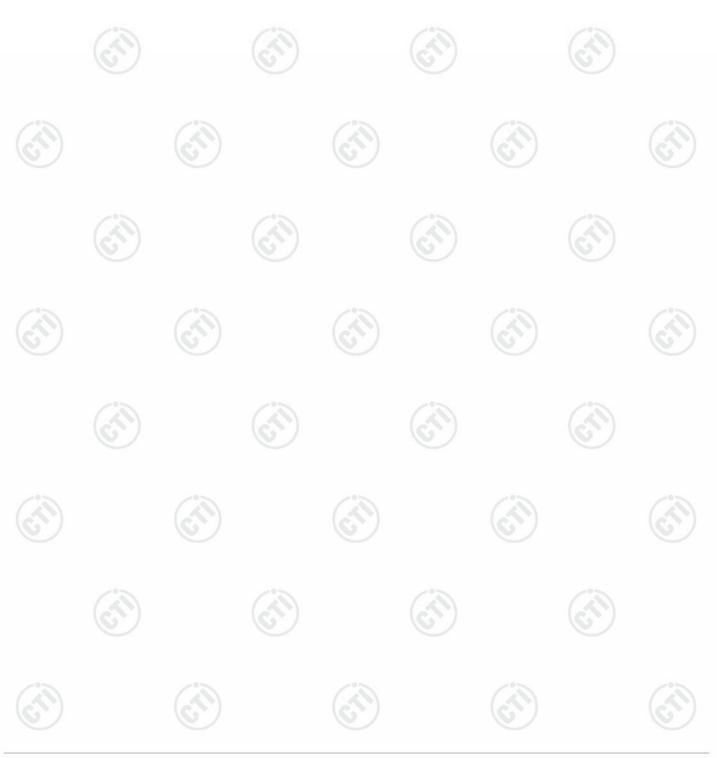
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8 APPENDIX 2.4G WIFI		~~~~	





3 Version

	Version No.	Date	C.	Description)
	00	Oct. 30, 2023		Original	
5	1		1	C°2	12
	(c		(?)		





et Summarv



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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	
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. Model No.: Hi10 XPro, CWI520, CWI536, CWI555, CWI598, CWI637, CWI638, CWI639, CWI640, CWI6641, CWI642

Only the model Hi10 XPro was tested. They have the same circuit principle, electrical design, and key components used. The models may vary depending on the sales platform and sales channel, the model sold on Amazon platform is Hi10 XPro, and the model sold on eBay platform is CWI520, etc. The models may vary depending on the sales platform and sales channel, and its differences do not affect safety and electromagnetic compatibility performance.



5 General Information

5.1 Client Information

Applicant:	CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED
Address of Applicant:	2 Floor Building 3 LiJinCheng Industrial park the east of Gongye road LongHua, Shenzhen, China
Manufacturer:	CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED
Address of Manufacturer:	2 Floor Building 3 LiJinCheng Industrial park the east of Gongye road LongHua, Shenzhen, China
Factory:	Shenzhen Yuko Technology Co., Ltd
Address of Factory:	4/F-B, Building A4, 4/F-A, Building A4, 6/F, Building A4, 6/F-A, Building A9, 4/F, Building A9, TianRui Industrial Park, No.35, FuYuan 1st Road, Zhancheng Community, Fuhai Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China

5.2 General Description of EUT

Product Name:	Tablet PC					
Model No.:	Hi10 XPro, CWI520, CWI536, CWI555, CWI598, CWI637, CWI638, CWI639, CWI640, CWI6641, CWI642					
Test Model No.:	Hi10 XPro					
Trade mark:	CHUWI					
Product Type:	Mobile Portable Fix Location					
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz					
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK)					
	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK)					
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels					
Channel Separation:	5MHz					
Test Software of EUT:	N/A					
Antenna Type:	FPC Antenna					
Antenna Gain:	0.23dBi					
Power Supply:	Adapter: Model:UC13US Input:100-240V~50/60Hz Output:5.0V 2000mA					
Test Voltage:	Battery DC 3.85V					
Sample Received Date:	Oct. 07, 2023					
Sample tested Date:	Oct. 07, 2023 to Oct. 23, 2023					



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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		6
Operation	Frequency ea	ch of chann	el (802.11n HT	40)			
Channel	Frequ	ency	Channel	Frequenc	cy Char	nel F	requency
3	2422	MHz	6	2437MH	z 9	120	2452MHz
4	2427	MHz	7	2442MH	z		
5	2432	MH7	8	2447MH	7		

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







5.3 Test Configuration

EUT Test Software Settings:					
Software:	N/A	-0-	100		
EUT Power Grade:	Default		(A)		
Use test software to set the lowe transmitting of the EUT.	est frequency, the middle frequency and the highest frequency keep				
Test Mode:					
the EUT in transmitting operatio		t with			
Per-scan all kind of data rate i	in lowest channel, and found	the follow list which it			
was worst case.					
Mode Data rate					
Mode		Data rate			
Mode 802.11b		Data rate 1Mbps			
	~>				
802.11b	20)	1Mbps	Â		
802.11b 802.11g	/	1Mbps 6Mbps	6		

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 Emissions:							
1	Temperature:	22~25.0 °C						
	Humidity:	50~55 % RH		(\mathcal{O})		(\mathcal{C})		
	Atmospheric Pressure:	1010mbar				\bigcirc		
	Conducted Emissions:							
	Temperature:	22~25.0 °C	13		10			
	Humidity:	50~55 % RH	(\sim)					
	Atmospheric Pressure:	1010mbar	V		V			
	RF Conducted:							
	Temperature:	22~25.0 °C		- 0.5		- 0.0		
10	Humidity:	50~55 % RH						
2	Atmospheric Pressure:	1010mbar		(C)		67		

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

su	sport equipment									
4	Description	Manufacturer	Model No.	Certification	Supplied by					
	1	1	/	1	/					



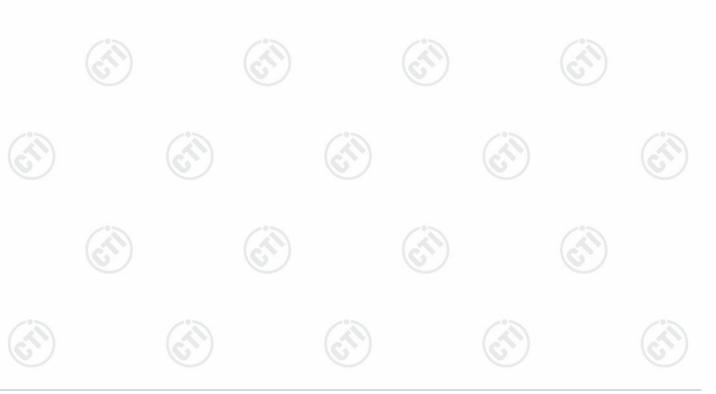


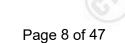


5.7 Measurement Uncertainty (95% confidence levels, k=2)

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)
		3.3dB (9kHz-30MHz)
3	Dedicted Sourieus emission test	4.3dB (30MHz-1GHz)
	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		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%
I		









6 Equipment List

RF te	st system	
	Carial Number	Cal. Date

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Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication tset set	R&S	CMW500	107929	06-28-2023	06-27-2024
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-05-2023	09-04-2024
Spectrum Analyzer	R&S	FSV40	101200	07-25-2023	07-24-2024
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-28-2023	06-27-2024
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023
Temperature/ Humidity Indicator	biaozhi	НМ10	1804186	06-01-2023	05-31-2024
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	(A)	6

Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	04-25-2023	04-24-2024		
Temperature/ Humidity Indicator	Defu	TH128	/	(Co lo		
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024		
Barometer	changchun	DYM3	1188	- /	- 2		
Test software	Fara	EZ-EMC	EMC-CON 3A1.1				















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	Sivi Serifi-di	echoic Chamber (2)-			
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
BM Chamber & Accessory Equipment	ток	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09-22-2023	09-21-2024
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/23/2022	12/23/2023
Multi device Controller	maturo	NCD/070/10711112			
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2023	06/19/2024
Test software	Fara	EZ-EMC	EMEC-3A1-Pre		- /

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	(1.2	
		3M full-anechoi	c Chamber	1	
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>	-6
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
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	<u> </u>	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	9	6
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	- (2	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		2
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001	- 6	-72
	67	(C)		S)	6





7 Test results and Measurement Data

7.1 Antenna Requirement

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

15.203 requirement:

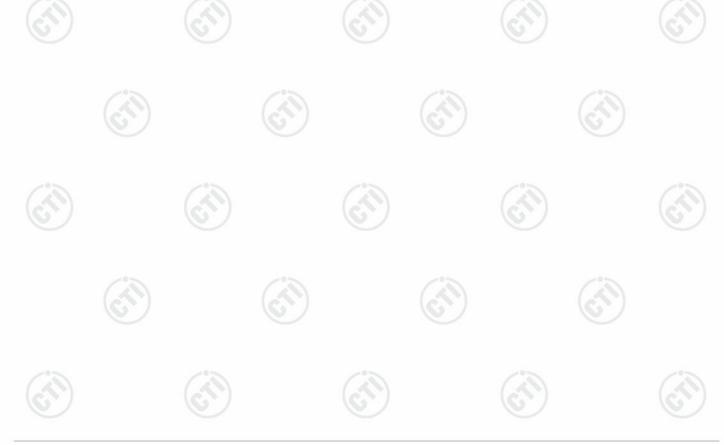
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 EPC antenna	The best case gain of the antenna is 0.23dBi











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7.2AC Power Line Conducted Emissions

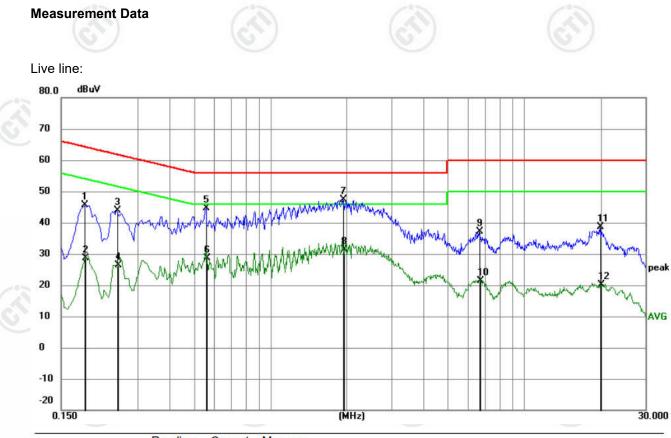
	Test Requirement:	47 CFR Part 15C Section 15.207							
	Test Method:	ANSI C63.10: 2013							
	Test Frequency Range:	150kHz to 30MHz							
13	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto							
G	Limit:	Limit (dBuV)							
~		Frequency range (MHz)	Quasi-peak	Average	-				
		0.15-0.5	66 to 56*	56 to 46*	1				
		0.5-5	56	46	1				
		5-30	60	50	1				
		* Decreases with the logarith	m of the frequency.	U U	1				
3	Test Setup:	Shielding Room EUT AE BUT AE USN1 LISN1 Ground Reference Plane							
CN.	Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which Provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN Provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 							
	Test Mode:	ANSI C63.10: 2013 on co All modes were tested, only t 802.11b was recorded in the	he worst case lowest c		6				
			1.6.1						







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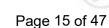


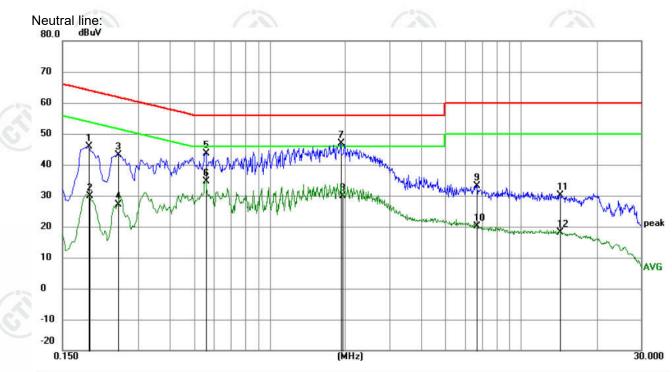
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1860	35.74	9.87	45.61	64.21	-18.60	QP	
2	0.1864	18.84	9.87	28.71	54.20	-25.49	AVG	
3	0.2490	33.96	9.97	43.93	61.79	-17.86	QP	
4	0.2508	16.29	9.97	26.26	51.73	-25.47	AVG	
5	0.5595	34.65	10.02	44.67	56.00	-11.33	QP	
6	0.5639	18.66	10.03	28.69	46.00	-17.31	AVG	
7 *	1.9365	37.64	9.79	47.43	56.00	-8.57	QP	
8	1.9410	21.51	9.79	31.30	46.00	-14.70	AVG	
9	6.6390	27.32	9.79	37.11	60.00	-22.89	QP	
10	6.7020	11.48	9.79	21.27	50.00	-28.73	AVG	
11	19.9320	28.54	9.97	38.51	60.00	-21.49	QP	
12	19.9680	10.09	9.97	20.06	50.00	-29.94	AVG	

Remark:

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







No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1905	35.92	9.87	45.79	64.01	-18.22	QP	
2	0.1914	19.94	9.87	29.81	53.98	-24.17	AVG	
3	0.2490	33.27	9.97	43.24	61.79	-18.55	QP	
4	0.2490	17.20	9.97	27.17	51.79	-24.62	AVG	
5	0.5595	33.62	10.02	43.64	56.00	-12.36	QP	
6	0.5595	24.64	10.02	34.66	46.00	-11.34	AVG	
7 *	1.9185	37.21	9.79	47.00	56.00	-9.00	QP	
8	1.9410	19.99	9.79	29.78	46.00	-16.22	AVG	
9	6.6525	23.32	9.79	33.11	60.00	-26.89	QP	
10	6.6975	10.24	9.79	20.03	50.00	-29.97	AVG	
11	14.2350	20.23	9.91	30.14	60.00	-29.86	QP	
12	14.3385	8.34	9.91	18.25	50.00	-31.75	AVG	

Remark:

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





7.2 Maximum Conducted Output Power

	Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
200	Test Method:	ANSI C63.10 2013	101 101
ି	Test Setup:		
		Control Computer Power Suppy TemPerature CABRET	RF test System Instrument
3		Table	C'
	Test Procedure:	broadband peak RF power meter. bandwidth that is greater than or e use a fast-responding diode detect 2. Method AVGPM-G Average pow Method AVGPM-G is a measurem meter. Alternatively, measurement gated RF power meter Provided th that the power is measured only w maximum power control level. Bec	tput power may be measured using a The power meter shall have a video qual to the DTS bandwidth and shall tor. ver measurement ent using a gated RF average power s may be performed using a wideband hat the gate parameters are adjusted such
	Limit:	30dBm	
	Test Mode:	Refer to clause 5.3	
	Test Results:	Refer to Appendix 2.4G WIFI	







7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	C orded C orded C orded C orded C orded Power Supply TeMPERATURE CABNET Table
	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 point (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 WIFI



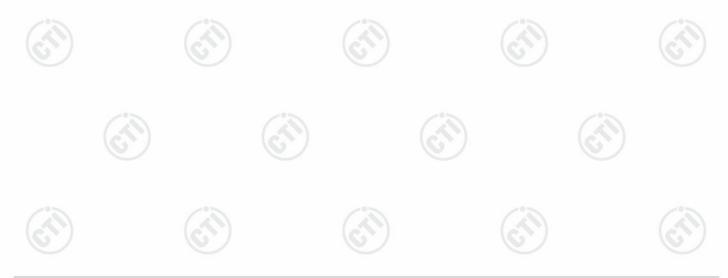




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7.4 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C Section 15.247 (e)
	Test Method:	ANSI C63.10 2013
3	Test Setup:	
		Control Computer Poter Supply TemPERATURE CABNET Table
		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 WIFI

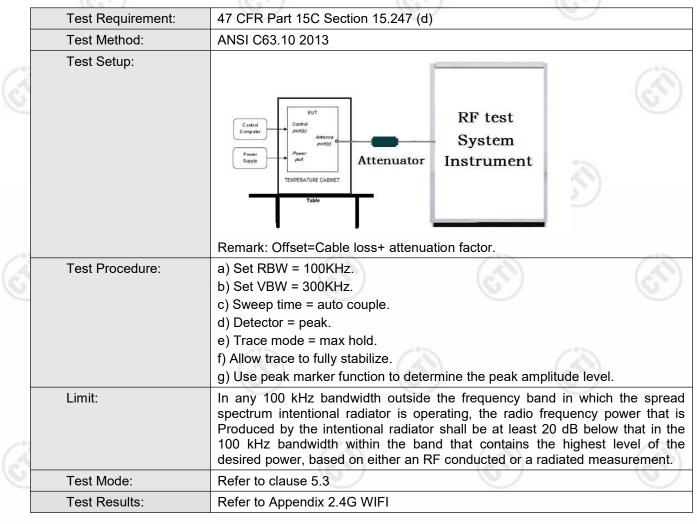






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7.5 Band Edge Measurements and Conducted Spurious Emission









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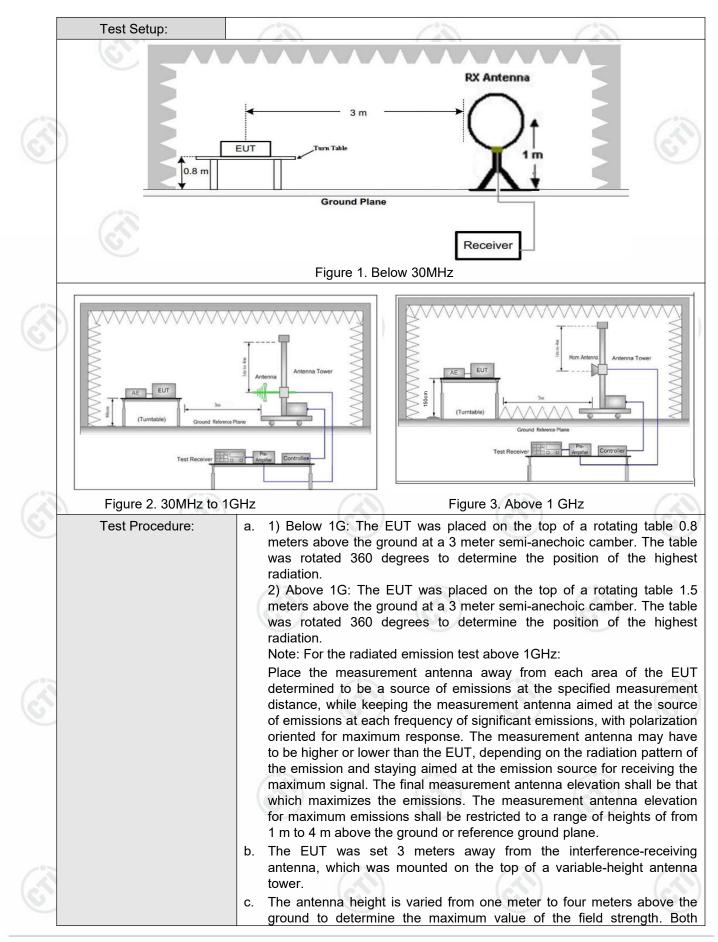
7.6 Radiated Spurious Emission & Restricted bands

	16.2 1	15.					10.4	1
	Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205		N. N.	
	Test Method:	ANSI C63.10 2013						
-	Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	be	r)	- 5 1
	Receiver Setup:	Frequency	9	Detector	RBW	1	VBW	Remark
0		0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak
		0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average
		0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak
		0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak
		0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average
		0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak
		30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak
13			2	Peak	1MHz		3MHz	Peak
S I		Above 1GHz		Peak	Peak 1MHz 1	10kHz	Average	
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measureme distance (m
		0.009MHz-0.490MHz	2	400/F(kHz)	-		- /2	300
		0.490MHz-1.705MHz	24	1000/F(kHz)	-		- (2)	30
		1.705MHz-30MHz		30	-		<u>e</u>	30
		30MHz-88MHz		100	40.0	Q	uasi-peak	3
		88MHz-216MHz		150	43.5	Q	uasi-peak	3
		216MHz-960MHz	2	200	46.0	Q	uasi-peak	3
S.		960MHz-1GHz		500	54.0	Q	uasi-peak	3
		Above 1GHz		500	54.0		Average	3
		Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20d quip	IB above the oment under t	maximum est. This p	pe	rmitted ave	erage emission





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CTI华测检测

Report No. : EED32P81581403

	Test Results:	Pass
	Test Mode:	Refer to clause 5.3
		i. Repeat above Procedures until all frequencies measured was complete.
3		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.
2		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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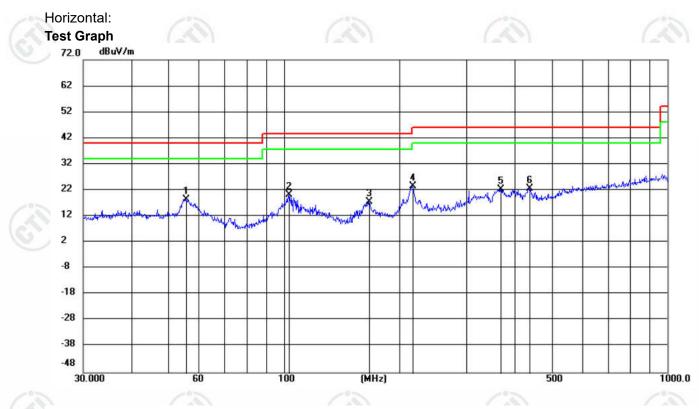




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Radiated Spurious Emission below 1GHz:

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.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	55.4827	5.35	13.22	18.57	40.00	-21.43	peak	199	90	
2		103.4421	7.02	13.12	20.14	43.50	-23.36	peak	199	215	
3		166.7683	6.75	10.80	17.55	43.50	-25.95	peak	100	54	
4		216.2513	10.60	13.06	23.66	46.00	-22.34	peak	100	106	
5		367.5312	5.10	17.26	22.36	46.00	-23.64	peak	100	117	
6		436.5072	4.12	18.50	22.62	46.00	-23.38	peak	100	260	

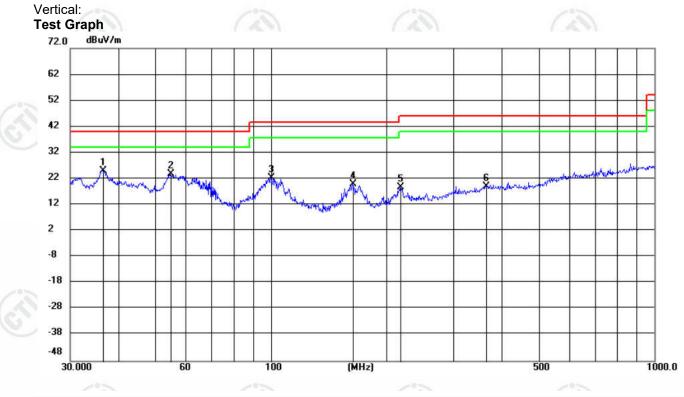












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	36.5092	11.93	13.18	25.11	40.00	-14.89	peak	100	240	
2		54.6812	10.51	13.26	23.77	40.00	-16.23	peak	100	360	
3		100.0179	9.17	13.27	22.44	43.50	-21.06	peak	100	346	
4		163.5828	9.71	10.33	20.04	43.50	-23.46	peak	200	205	
5		217.8879	5.55	13.11	18.66	46.00	-27.34	peak	100	81	
6		364.6429	1.95	17.20	19.15	46.00	-26.85	peak	100	7	



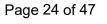








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Radiated Spurious Emission above 1GHz:

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 of was recorded in the report.

Mode	ə:		802.11 b	Transmitti	ng		Channel:		2412 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1440.6441	1.42	38.41	39.83	74.00	34.17	Pass	Н	PK
2	2003.7004	4.57	37.92	42.49	74.00	31.51	Pass	Н	PK
3	4824.1216	-16.22	57.71	41.49	74.00	32.51	Pass	Н	PK
4	8104.3403	-10.57	47.56	36.99	74.00	37.01	Pass	Н	PK
5	10303.4869	-6.46	46.61	40.15	74.00	33.85	Pass	Н	PK
6	13755.717	-1.70	46.63	44.93	74.00	29.07	Pass	Н	PK
7	1574.0574	2.08	37.99	40.07	74.00	33.93	Pass	V	PK
8	2105.9106	4.82	37.90	42.72	74.00	31.28	Pass	V	PK
9	4824.1216	-16.22	55.59	39.37	74.00	34.63	Pass	V	PK
10	7748.3166	-11.20	47.84	36.64	74.00	37.36	Pass	V	PK
11	14394.7597	1.13	43.84	44.97	74.00	29.03	Pass	V	PK
12	16279.8853	1.56	45.97	47.53	74.00	26.47	Pass	V	PK

	Mode	: :		802.11 b	Transmittir	ıg		Channe	1:	2437 MHz
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1491.8492	1.46	39.10	40.56	74.00	33.44	Pass	Н	PK
	2	2120.7121	4.66	38.16	42.82	74.00	31.18	Pass	Н	PK
	3	4874.1249	-16.21	57.76	41.55	74.00	32.45	Pass	Н	PK
	4	8531.3688	-10.49	47.64	37.15	74.00	36.85	Pass	Н	PK
	5	14377.7585	0.85	43.97	44.82	74.00	29.18	Pass	Н	PK
	6	1455.8456	1.44	38.37	39.81	74.00	34.19	Pass	V	PK
\$	7	2079.1079	4.81	37.47	42.28	74.00	31.72	Pass	V	PK
)[8	4874.1249	-16.21	53.60	37.39	74.00	36.61	Pass	V	PK
	9	7360.2907	-11.58	48.43	36.85	74.00	37.15	Pass	V	PK
	10	13677.7118	-1.74	47.01	45.27	74.00	28.73	Pass	V	PK
	11	16269.8847	1.48	45.57	47.05	74.00	26.95	Pass	V	PK



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	Mode	:		802.11 b T	Fransmitting			Channe	l:	2462 MHz
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2)	1	1349.4349	1.22	38.34	39.56	74.00	34.44	Pass	Н	PK
/	2	2058.7059	4.74	38.21	42.95	74.00	31.05	Pass	Н	PK
	3	4924.1283	-16.11	59.00	42.89	74.00	31.11	Pass	Н	PK
	4	7384.2923	-11.54	49.36	37.82	74.00	36.18	Pass	Н	PK
	5	12349.6233	-5.21	47.91	42.70	74.00	31.30	Pass	Н	PK
	6	16277.8852	1.54	45.57	47.11	74.00	26.89	Pass	Н	PK
	7	1654.8655	2.64	38.24	40.88	74.00	33.12	Pass	V	PK
	8	2087.7088	4.84	38.25	43.09	74.00	30.91	Pass	V	PK
	9	4924.1283	-16.11	54.67	38.56	74.00	35.44	Pass	V	PK
1	10	7387.2925	-11.53	50.33	38.80	74.00	35.20	Pass	V	PK
J	11	13731.7154	-1.72	46.92	45.20	74.00	28.80	Pass	V	PK
	12	16647.9099	2.03	45.07	47.10	74.00	26.90	Pass	V	PK

1.	2 0 m								
Mode	e:		802.11 n(HT40) Tran	smitting		Channe	l:	2422 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1337.2337	1.19	38.74	39.93	74.00	34.07	Pass	Н	PK
2	2036.9037	4.67	37.56	42.23	74.00	31.77	Pass	Н	PK
3	4844.1229	-16.22	52.79	36.57	74.00	37.43	Pass	Н	PK
4	7482.2988	-11.17	47.76	36.59	74.00	37.41	Pass	Н	PK
5	10634.509	-6.55	46.45	39.90	74.00	34.10	Pass	Н	PK
6	14367.7579	0.69	46.05	46.74	74.00	27.26	Pass	Н	PK
7	1409.641	1.40	38.50	39.90	74.00	34.10	Pass	V	PK
8	2094.7095	4.86	37.63	42.49	74.00	31.51	Pass	V	PK
9	3769.0513	-19.45	51.37	31.92	74.00	42.08	Pass	V	PK
10	7867.3245	-11.07	48.14	37.07	74.00	36.93	Pass	V	PK
11	13732.7155	-1.72	46.90	45.18	74.00	28.82	Pass	V	PK
12	16821.9215	1.69	45.47	47.16	74.00	26.84	Pass	V	PK













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	Contraction of the second seco		1000				-	10 million 10 million	
Mode:			802.11 n	(HT40) Trai	nsmitting		Channe	l:	2437 MHz
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1286.4286	1.03	39.00	40.03	74.00	33.97	Pass	Н	PK
2	2090.7091	4.85	38.75	43.60	74.00	30.40	Pass	н	PK
3	3792.0528	-19.30	51.67	32.37	74.00	41.63	Pass	Н	PK
4	4873.1249	-16.21	51.31	35.10	74.00	38.90	Pass	н	PK
5	7751.3168	-11.21	48.69	37.48	74.00	36.52	Pass	Н	PK
6	13686.7124	-1.75	46.91	45.16	74.00	28.84	Pass	Н	PK
7	1369.0369	1.29	39.01	40.30	74.00	33.70	Pass	V	PK
8	2060.106	4.74	37.45	42.19	74.00	31.81	Pass	V	PK
9	4209.0806	-17.95	52.17	34.22	74.00	39.78	Pass	V	PK
10	7751.3168	-11.21	48.46	37.25	74.00	36.75	Pass	V	PK
11	14319.7546	-0.11	46.05	45.94	74.00	28.06	Pass	V	PK
12	16267.8845	1.46	46.74	48.20	74.00	25.80	Pass	V	PK
	~					6			

	Mode:			802.11 n(HT40) Tran	smitting		Channe	l:	2452 MHz
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1433.4433	1.41	38.67	40.08	74.00	33.92	Pass	Н	PK
	2	2013.5014	4.60	38.07	42.67	74.00	31.33	Pass	Н	PK
	3	4885.1257	-16.20	53.35	37.15	74.00	36.85	Pass	Н	PK
	4	7760.3174	-11.24	48.65	37.41	74.00	36.59	Pass	Н	PK
/	5	10371.4914	-6.33	46.96	40.63	74.00	33.37	Pass	Н	PK
	6	13760.7174	-1.68	47.58	45.90	74.00	28.10	Pass	Н	PK
	7	1425.4425	1.41	39.73	41.14	74.00	32.86	Pass	V	PK
	8	2110.7111	4.76	37.76	42.52	74.00	31.48	Pass	V	PK
	9	3849.0566	-19.17	52.15	32.98	74.00	41.02	Pass	V	PK
	10	6768.2512	-12.43	47.16	34.73	74.00	39.27	Pass	V	PK
	11	9661.4441	-7.57	47.86	40.29	74.00	33.71	Pass	V	PK
	12	14397.7599	1.19	44.23	45.42	74.00	28.58	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

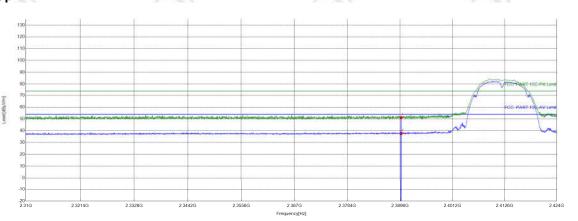
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified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



Test plot as follows:

Mode:	802.11 b Transmitting	Channel:	2412MHz	6
Remark:			Sou	

Test Graph



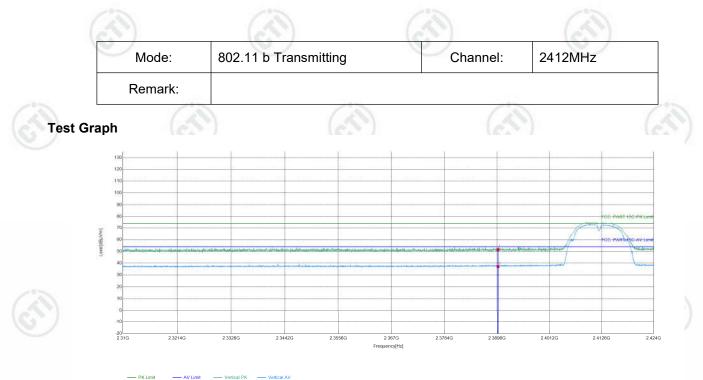
PK Limit — AV Limit — Horizontal PK — Horizontal AV PK Detector AV Detector

Suspect	od Liet								
NO	Freq. [MHz]			Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	13.75	37.46	51.21	74.00	22.79	PASS	Horizontal	PK
2	2390	13.75	23.95	37.70	54.00	16.30	PASS	Horizontal	AV
6	37	•	67		6			67	



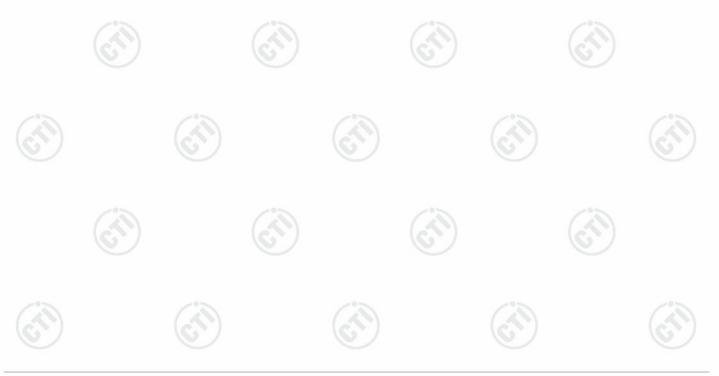


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*	PK Detector	AV Detector	

	Suspecte	d List								
~ ~ ~	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	13.75	37.93	51.68	74.00	22.32	PASS	Vertical	PK
U	2	2390	13.75	23.39	37.14	54.00	16.86	PASS	Vertical	AV

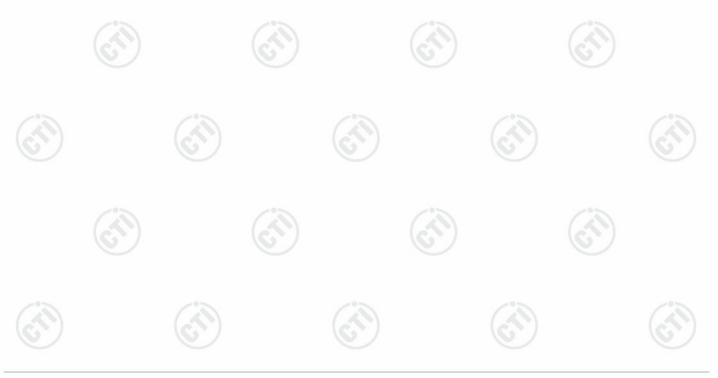




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	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathbf{x})	1	2483.5	6.57	37.30	43.87	74.00	30.13	PASS	Horizontal	PK
C	2	2483.5	6.57	23.71	30.28	54.00	23.72	PASS	Horizontal	AV





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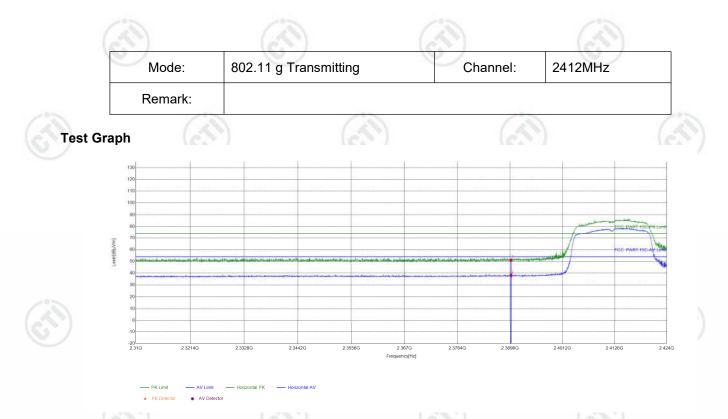


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	2483.5	6.57	38.00	44.57	74.00	29.43	PASS	Vertical	PK
C	2	2483.5	6.57	24.62	31.19	54.00	22.81	PASS	Vertical	AV

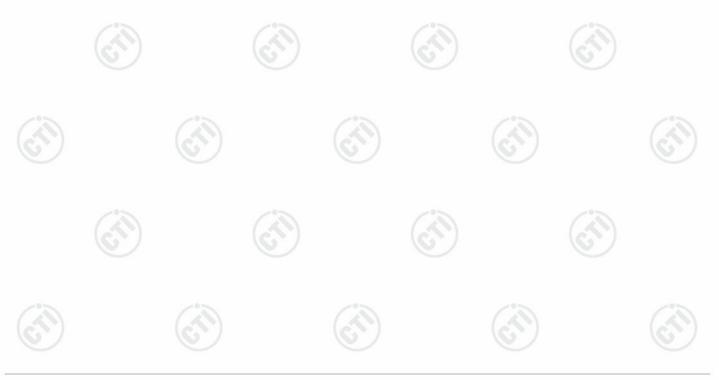




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	10.	3.1		16.7		16.7			C. C	
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	13.75	37.41	51.16	74.00	22.84	PASS	Horizontal	PK
(U)	2	2390	13.75	24.42	38.17	54.00	15.83	PASS	Horizontal	AV





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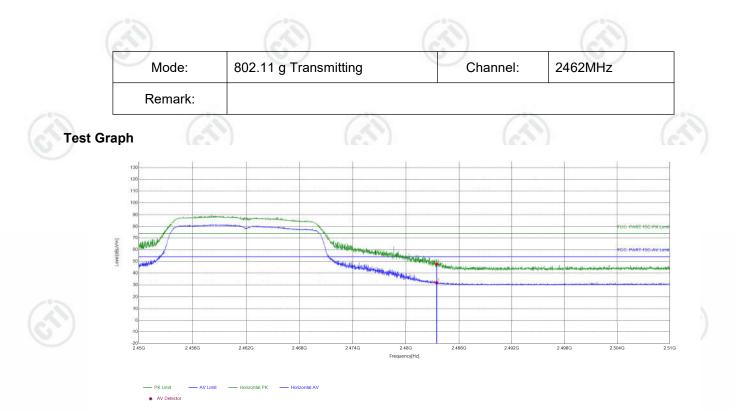


	Suspecte	d List								
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remar
(\mathcal{A})	1	2390	13.75	37.74	51.49	74.00	22.51	PASS	Vertical	PK
(V)	2	2390	13.75	23.85	37.60	54.00	16.40	PASS	Vertical	AV





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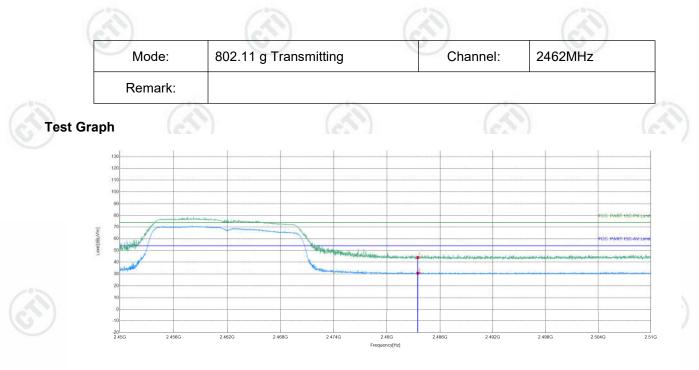


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	2483.5	6.57	41.26	47.83	74.00	26.17	PASS	Horizontal	PK
U	2	2483.5	6.57	25.30	31.87	54.00	22.13	PASS	Horizontal	AV

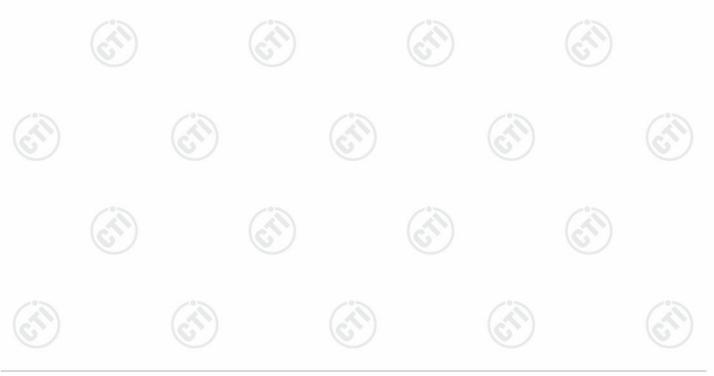




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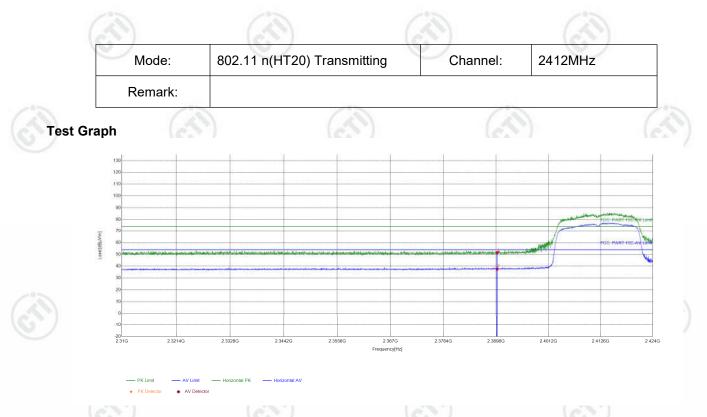


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathbf{A})	1	2483.5	6.57	37.54	44.11	74.00	29.89	PASS	Vertical	PK
U	2	2483.5	6.57	24.15	30.72	54.00	23.28	PASS	Vertical	AV

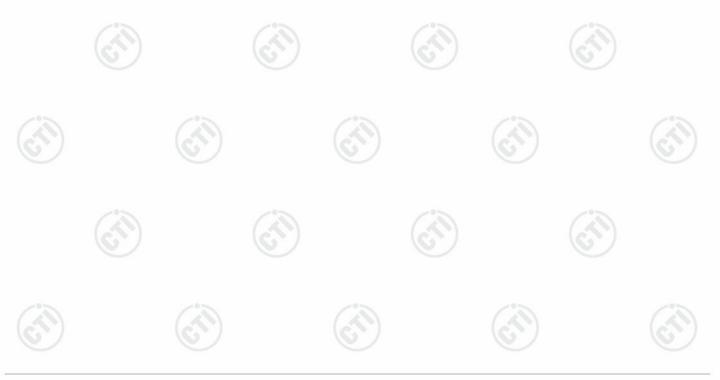




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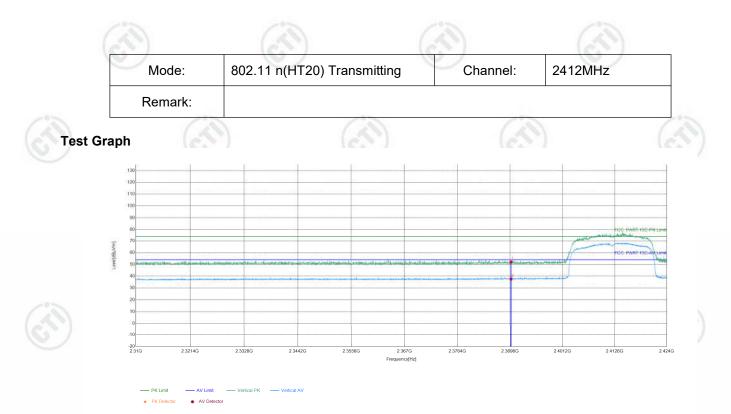


	Suspecte	d List				_				
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(A)	1	2390	13.75	37.90	51.65	74.00	22.35	PASS	Horizontal	PK
C	2	2390	13.75	23.91	37.66	54.00	16.34	PASS	Horizontal	AV

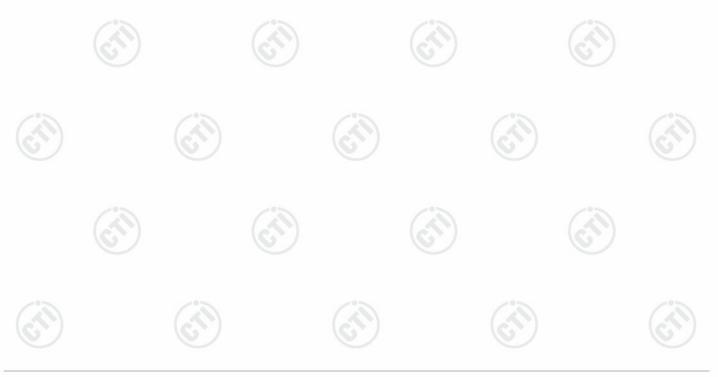




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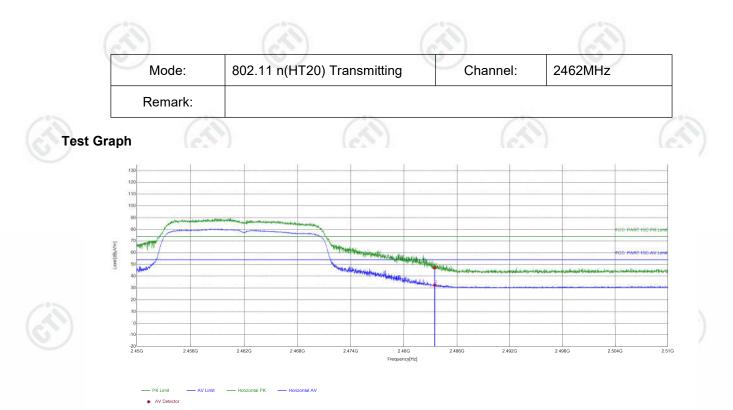


		<u>(c))</u>								
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	2390	13.75	38.49	52.24	74.00	21.76	PASS	Vertical	PK
C	2	2390	13.75	23.93	37.68	54.00	16.32	PASS	Vertical	AV

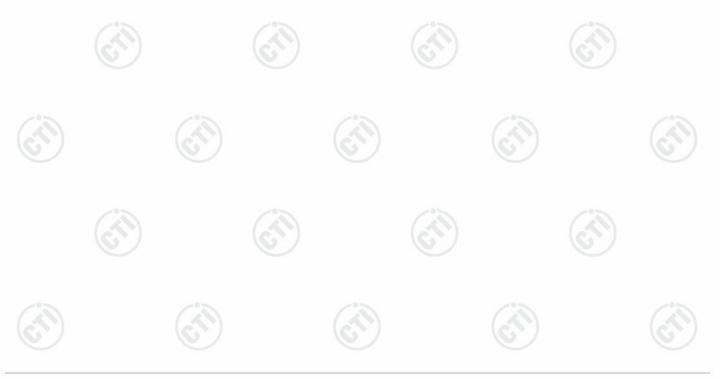




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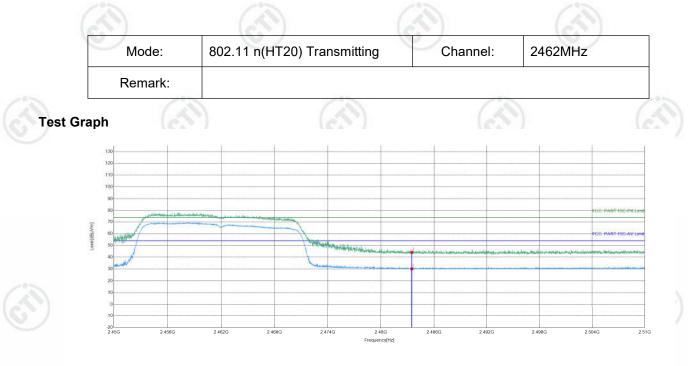
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(3)	1	2483.5	6.57	40.63	47.20	74.00	26.80	PASS	Horizontal	PK
U	2	2483.5	6.57	26.01	32.58	54.00	21.42	PASS	Horizontal	AV



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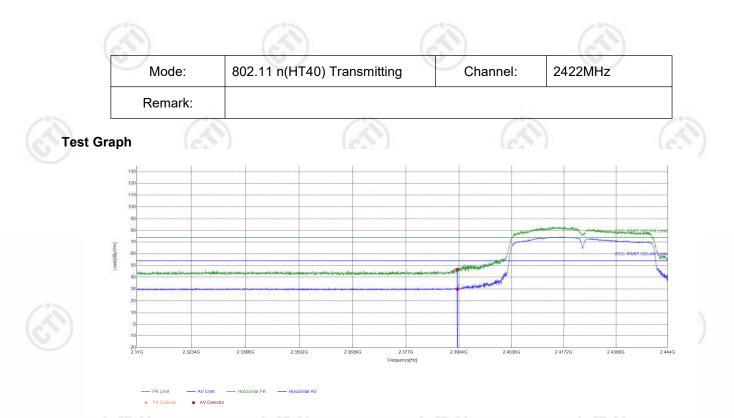


	Suspected List											
~~~	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2483.5	6.57	37.59	44.16	74.00	29.84	PASS	Vertical	PK		
U	2	2483.5	6.57	23.56	30.13	54.00	23.87	PASS	Vertical	AV		

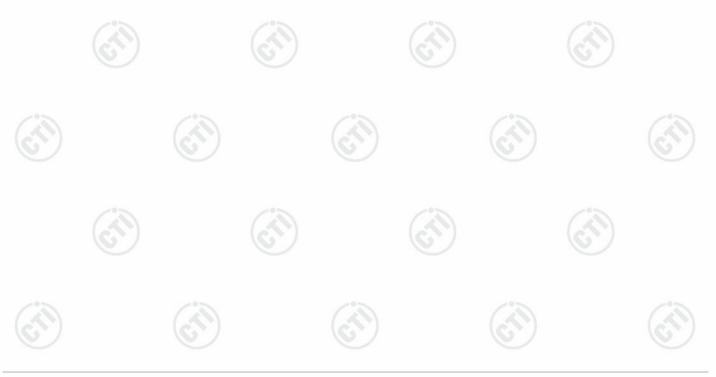




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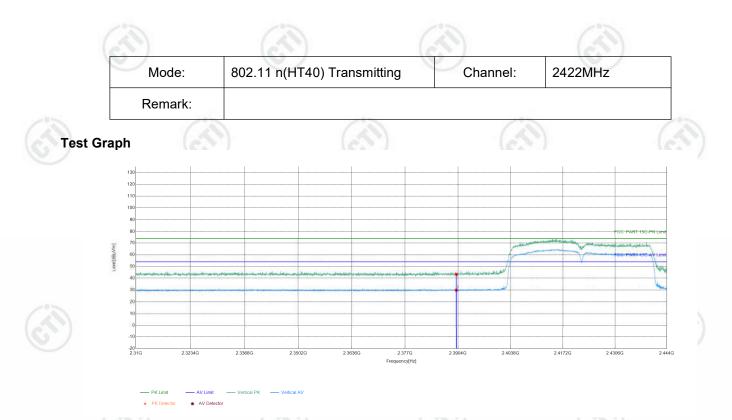
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
(3)	1	2390	5.77	40.97	46.74	74.00	27.26	PASS	Horizontal	PK		
C	2	2390	5.77	24.01	29.78	54.00	24.22	PASS	Horizontal	AV		



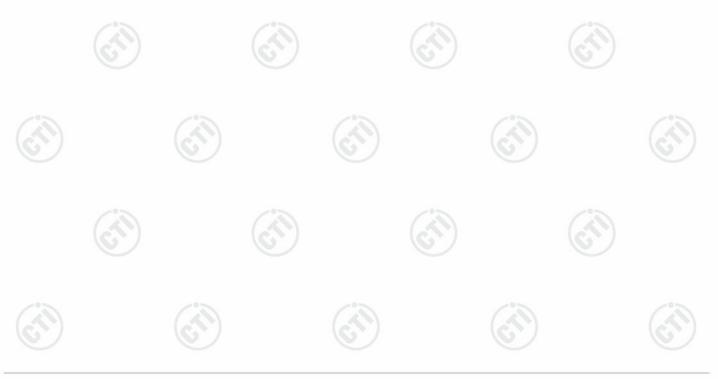
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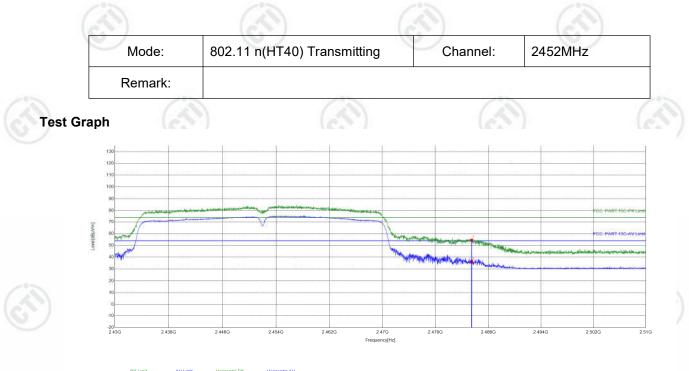


	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
$(\mathcal{A})$	1	2390	5.77	37.54	43.31	74.00	30.69	PASS	Vertical	PK		
(U)	2	2390	5.77	24.12	29.89	54.00	24.11	PASS	Vertical	AV		



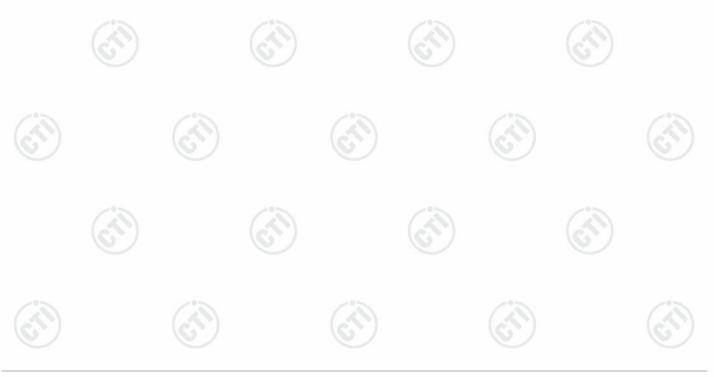


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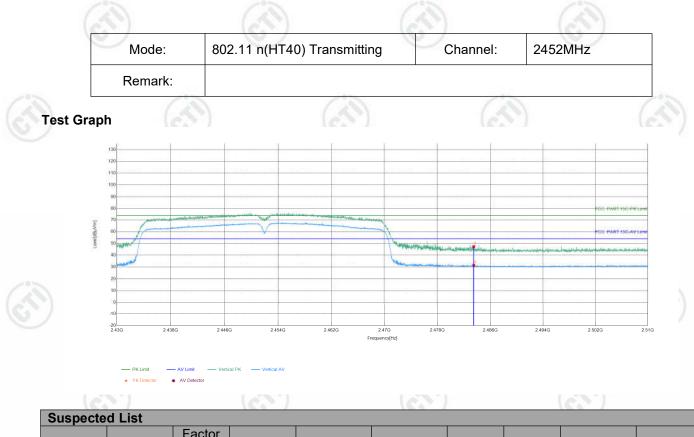
## PK Limit — AV Limit — Horizontal PK — Horizontal PK Detector AV Detector

	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	2483.5	6.57	48.03	54.60	74.00	19.40	PASS	Horizontal	PK		
(V)	2	2483.5	6.57	29.46	36.03	54.00	17.97	PASS	Horizontal	AV		





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12	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$(\mathcal{A})$	1	2483.5	6.57	40.74	47.31	74.00	26.69	PASS	Vertical	PK
6	2	2483.5	6.57	24.83	31.40	54.00	22.60	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 WIFI

Refer to Appendix: 2.4G WIFI of EED32P81581403

