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TEST REPORT

- Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards Test result
- : Oscillograph multimeter
- SmartSafe
- : iSmartEV OM210,EV OM210
- : N/A
- : EED32P80251001
- : 2AYANOM210
- : May 16, 2023
- : 47 CFR Part 15 Subpart C

Prepared for:

: PASS

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

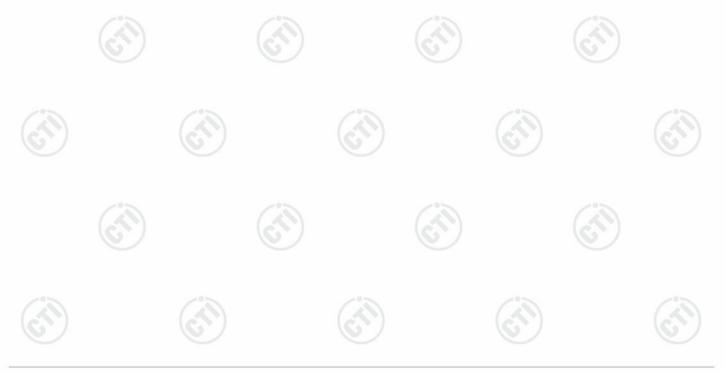
(A)	Compiled by:	Mark Chen Mark Chen	Reviewed by: Date:	Tom Chen May 16, 2023	(ST)
	Report Seal	Aaron Ma	(T)	Check No.: 8633270223	





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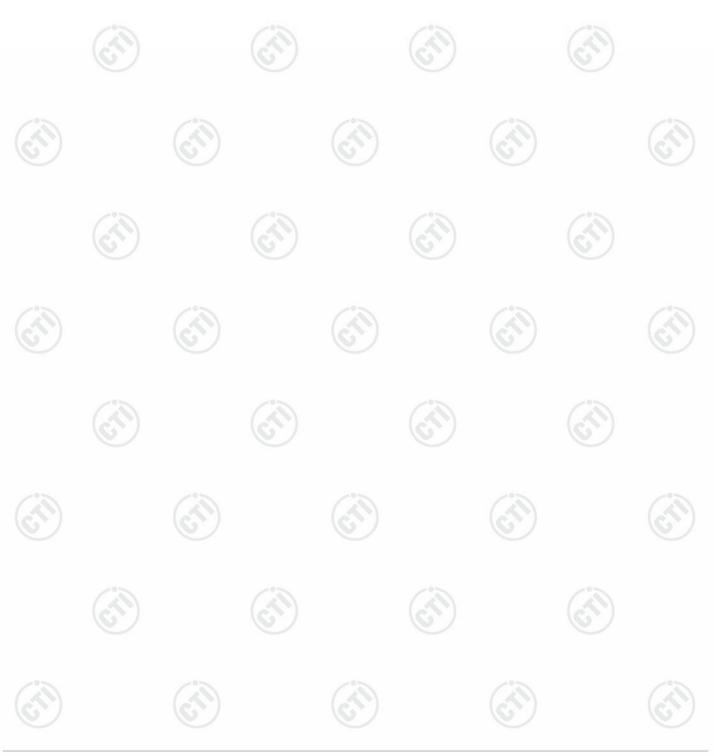
1 COVER PAGE			
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3 Version

	Version No.	Date	C	Description	
	00	May 16, 2023		Original	
-	/	1		20	12
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et Summary



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Test Requirement	Result
47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
47 CFR Part 15 Subpart C Section 15.207	PASS
47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
47 CFR Part 15 Subpart C Section 15.247(d)	PASS
47 CFR Part 15 Subpart C Section 15.247(d)	PASS
47 CFR Part 15 Subpart C Section 15.205/15.209	PASS
	 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) 47 CFR Part 15 Subpart C Section 15.207 47 CFR Part 15 Subpart C Section 15.247 (a)(2) 47 CFR Part 15 Subpart C Section 15.247 (b)(3) 47 CFR Part 15 Subpart C Section 15.247 (e) 47 CFR Part 15 Subpart C Section 15.247(d)

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.: iSmartEV OM210,EV OM210

Only the model iSmartEV OM210 was tested. Their electrical circuit design, layout, components used and internal wiring are identical, only the sales channels are different.



5 General Information

5.1 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

5.2 General Description of EUT

Product Name:	Oscillogr	aph multimeter
Model No.:	iSmartE\	/ OM210,EV OM210
Test Model No.(EUT):	iSmartE\	/ OM210
Trade mark:	SmartSa	fe
Product Type:	🗌 Mobil	e 🛛 Portable 🗌 Fix Location
Operation Frequency:	IEEE 802	2.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	IEEE for	802.11b:DSSS(CCK,DQPSK,DBPSK) 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)
Number of Channel:	IEEE 802	2.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz	
Antenna Type:	PCB ante	enna
Antenna Gain:	1.97dBi	
Power Supply:	Adapter	Model: MK-Q181EX Input: 100-240V, 50/60Hz, 0.5A Max Output: 5.0V 3.0A 9.0V 2.0A 12.0V 1.5A 18.0W Max
	Battery	DC 3.8V
Test Voltage:	DC 3.8V	6) 6) 6)
Sample Received Date:	Feb. 28,	2023
Sample tested Date:	Feb. 28,	2023 to Apr. 21, 2023





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Operation	Frequency ea	ch of channe	el (802.11b/g/n	HT20)	•)	(3))
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		(GN)

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)

	NG a T	nnel		Frequ	
		st channel e channel		24121 24371	
		st channel		24621	

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



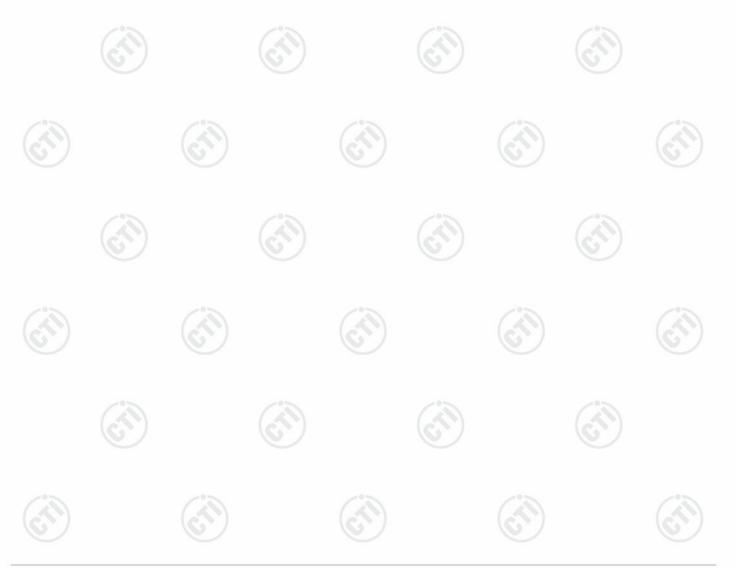


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5.3 Test Configuration

Software:	EspRFtestTool		
EUT Power Grade:	Default		13
		(2))	100
Use test software to set the transmitting of the EUT.	e lowest frequency, the middle	frequency and the highest frequency keep	
Test Mode:			
		operation. All the test modes were carried c is test report and defined as follows:	out with
the EUT in transmitting ope		is test report and defined as follows:	out with
the EUT in transmitting ope Per-scan all kind of data	eration, which was shown in thi	is test report and defined as follows:	out with
the EUT in transmitting ope	eration, which was shown in thi rate in lowest channel, and f	is test report and defined as follows:	out with
the EUT in transmitting ope Per-scan all kind of data was worst case.	eration, which was shown in thi rate in lowest channel, and f	is test report and defined as follows: ound the follow list which it	ut with
the EUT in transmitting ope Per-scan all kind of data was worst case. Mo	eration, which was shown in thi rate in lowest channel, and f de 11b	is test report and defined as follows: ound the follow list which it Data rate	out with

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20).







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5.4 Test Environment

	Operating Environment	t:					
260	Radiated Spurious Emi	ssions:					
10	Temperature:	22~25.0 °C	2				(2)
2	Humidity:	50~55 % RH	S		C		S
	Atmospheric Pressure:	1010mbar					
	Conducted Emissions:						
	Temperature:	22~25.0 °C				(in)	
	Humidity:	50~55 % RH		67)		6	
	Atmospheric Pressure:	1010mbar					
	RF Conducted:						
2	Temperature:	22~25.0 °C					13
	Humidity:	50~55 % RH	<u>()</u>		(c^{γ})		(c^{γ})
9	Atmospheric Pressure:	1010mbar	J		U		U

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
Netbook	DELL	Latitude 3490	FCC&CE	CTI

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









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No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	PE 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)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
A.		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%



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



6 Equipment List

	RF test system										
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)						
Communication tset set	R&S	CMW500	107929	07-06-2022	07-05-2023						
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023						
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023						
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023						
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023						
Temperature/ Humidity Indicator	biaozhi	НМ10	1804186	06-16-2022	06-15-2023						
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	(A)	_ (*						

	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	05-04-2022	05-05-2023						
Temperature/ Humidity Indicator	Defu	TH128	/		(3						
LISN	ISN R&S ENV216		100098	09-27-2022	09-26-2023						
Barometer	changchun	DYM3	1188								



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3M Semi-anechoic Chamber (2)- Radiated disturbance Test									
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date 05/21/2025				
3M Chamber & Accessory Equipment	ток	SAC-3		05/22/2022					
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023				
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2023				
Multi device Controller	maturo	NCD/070/10711112		/	A				
Horn Antenna	Antenna ETS-LINGREN BBHA 91201		9120D-1869	04/15/2021	04/14/2024				
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/17/2021	04/16/2024				
Microwave Preamplifier	Agilent	8449B	3008A02425	06/20/2022	06/19/2023				
	(GT)	67		(G))	6				

































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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
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	(d)	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	04-20-2022	04-19-2023 04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EJ1611459	02-15-2023	02-14-2024
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	<u></u>	
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(\mathcal{O})	(ć
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		
Cable line	Times	EMC104-NMNM-1000	SN160710		·~ -
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(S)
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	(\bigcirc)	



7 Test results and Measurement Data

7.1 Antenna Requirement

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

15.203 requirement:

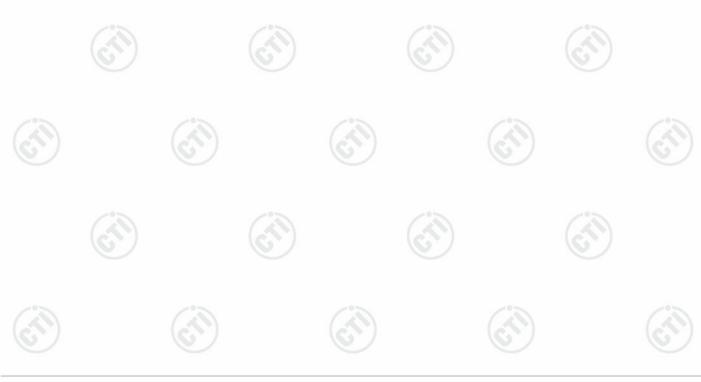
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PCB antenn	a. The best case gain of the antenna is 1.07dRi

The antenna is PCB antenna. The best case gain of the antenna is 1.97dBi.









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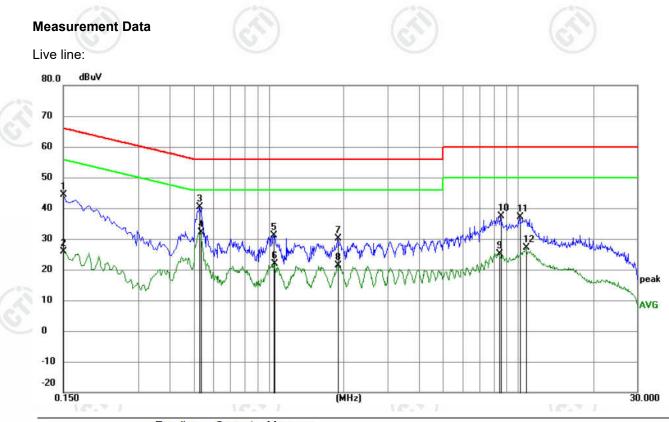
7.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.	.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Rar	nge: 150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	Sweep time=auto	1
Limit:		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		
Test Setup:	Shielding Room	Test Receive	
Test Procedure:	 The mains terminal distur- room. 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 The tabletop EUT was pla ground reference plane. A placed on the horizontal g The test was performed with 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 and associated equipmen In order to find the maxim and all of the interface ca ANSI C63.10: 2013 on con 	to AC power source Network) which provide cables of all other SN 2, which was bonde as the LISN 1 for the owas used to connect rating of the LISN was n aced upon a non-meta And for floor-standing a ground reference plane. ith a vertical ground ref from the vertical ground e plane was bonded N 1 was placed 0.8 m moded to a ground re- pund reference plane. T LISN 1 and the EUT. it was at least 0.8 m fro- num emission, the relati- ables must be changed	through a LISN 1 (Lin s a $50\Omega/50\mu$ H + 5Ω linea units of the EUT wer do to the ground reference unit being measured. A multiple power cables to not exceeded. allic table 0.8m above the rrangement, the EUT was ference plane. The rear of and reference plane. The to the horizontal groun from the boundary of the ference plane for LISN his distance was betwee All other units of the EUT m the LISN 2. We positions of equipmer according to
Test Mode:	All modes were tested, only the 802.11b was recorded in the	he worse case lowest o	
	Pass		





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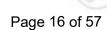


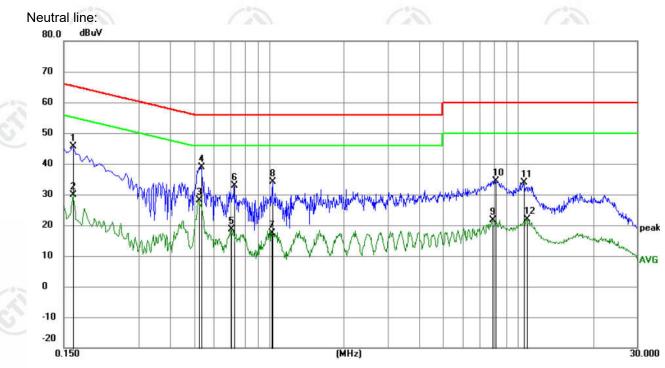
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	34.50	9.87	44.37	66.00	-21.63	QP	
2		0.1500	16.11	9.87	25.98	56.00	-30.02	AVG	
3		0.5280	30.30	9.98	40.28	56.00	-15.72	QP	
4	*	0.5325	22.22	9.99	32.21	46.00	-13.79	AVG	
5		1.0455	21.41	9.83	31.24	56.00	-24.76	QP	
6		1.0590	12.01	9.83	21.84	46.00	-24.16	AVG	
7		1.8960	20.39	9.79	30.18	56.00	-25.82	QP	
8		1.8960	11.66	9.79	21.45	46.00	-24.55	AVG	
9		8.3895	15.44	9.79	25.23	50.00	-24.77	AVG	
10		8.5020	27.56	9.78	37.34	60.00	-22.66	QP	
11		10.1760	27.45	9.79	37.24	60.00	-22.76	QP	
12		10.7790	17.27	9.80	27.07	50.00	-22.93	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		0.1635	35.67	9.87	45.54	65.28	-19.74	QP	
2		0.1635	20.08	9.87	29.95	55.28	-25.33	AVG	
3		0.5234	18.07	9.98	28.05	46.00	-17.95	AVG	
4	*	0.5325	28.88	9.99	38.87	56.00	-17.13	QP	
5		0.7034	8.69	9.88	18.57	46.00	-27.43	AVG	
6		0.7259	23.03	9.87	32.90	56.00	-23.10	QP	
7		1.0229	7.52	9.83	17.35	46.00	-28.65	AVG	
8		1.0363	24.18	9.83	34.01	56.00	-21.99	QP	
9		7.8540	11.85	9.79	21.64	50.00	-28.36	AVG	
10		8.1330	24.48	9.79	34.27	60.00	-25.73	QP	
11		10.5135	24.13	9.80	33.93	60.00	-26.07	QP	
12		10.8285	12.00	9.80	21.80	50.00	-28.20	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.

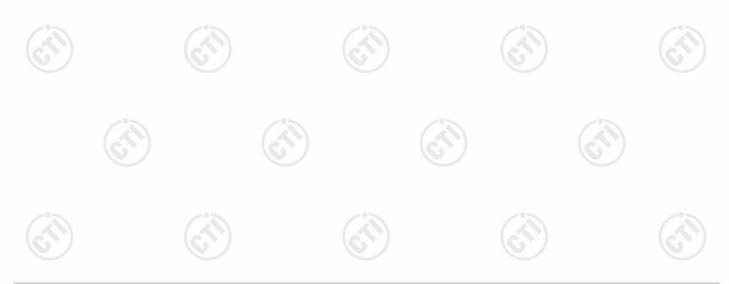




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7.3 Maximum Conducted Output Power

	Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
	Test Method:	ANSI C63.10 2013
100	Test Setup:	
		Control Computer Power Supply TemPERature CABNET Table
	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.
100		 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







7.4 DTS Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
	Test Method:	ANSI C63.10 2013					
3	Test Setup:						
		Control Computer Arbenra Pont(b)	RF test System strument				
	Test Procedure:	Remark: Offset=Cable loss+ attenuation f a) Set RBW = 100 kHz. b) Set the VBW \geq [3 \times RBW]. c) Detector = peak.	factor.				
		 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 frequencies associated with the two outermost amplitude provide (upper and lower frequencies) that are attenuated by 6 dB relative the maximum level measured in the fundamental emission. 					
3	Limit:	≥ 500 kHz					
	Test Mode:	Refer to clause 5.3					
	Test Results:	Refer to Appendix 2.4G WIFI					







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7.5 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 Computer Computer Supply Former Supply TemPerature cabinet Table							
	Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. 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 							
	Limit:	than 3 kHz) and repeat. ≤8.00dBm/3kHz							
	Test Mode:	Refer to clause 5.3							
	Test Results:	Refer to Appendix 2.4G WIFI							

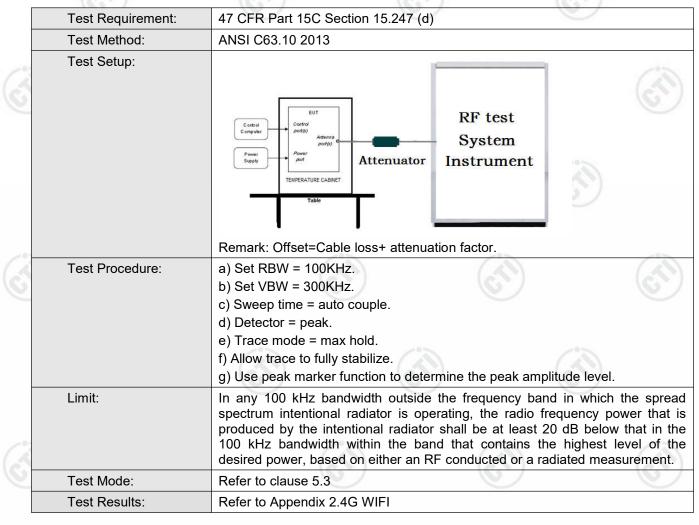






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7.6 Band Edge Measurements and Conducted Spurious Emission





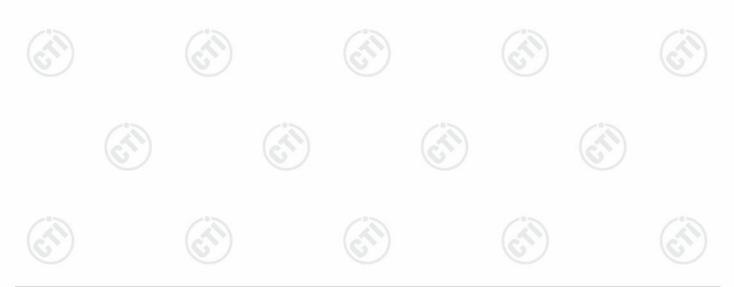




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7.7 Radiated Spurious Emission & Restricted bands

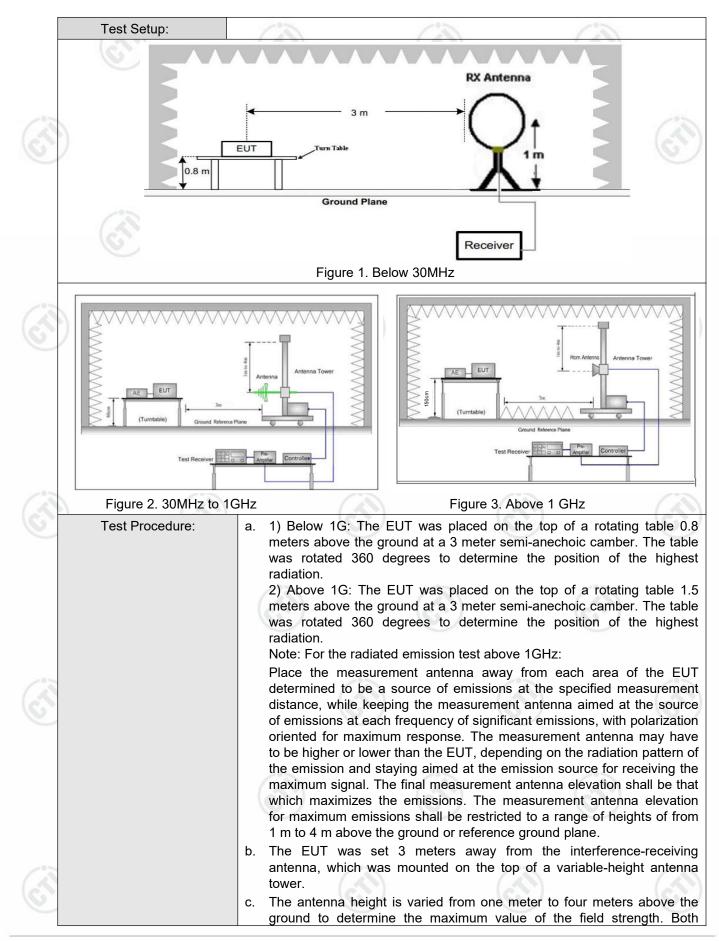
	Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		C	/	
	Test Method:	ANSI C63.10 2013							
	Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
	Receiver Setup:	Frequency	10	Detector	RBW	1	VBW	Remark	
S.		0.009MHz-0.090MH	z	Peak	10kHz	Z	30kHz	Peak	
		0.009MHz-0.090MH	z	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		Above 1GHz		Peak	1MHz		3MHz	Peak	
S I				Peak	1MHz)	10kHz	Average	
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measuremer distance (m	
		0.009MHz-0.490MHz	2	400/F(kHz)	-		- 200	300	
		0.490MHz-1.705MHz	24	4000/F(kHz)	-			30	
		1.705MHz-30MHz		30	-		<u>e</u>	30	
		30MHz-88MHz	100		40.0	Quasi-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	20c quip	B 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. : EED32P80251001

	Test Results:	Pass
	Test Mode:	Refer to clause 5.3
<u> </u>		i. Repeat above procedures until all frequencies measured was complete.
2		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.
3		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.













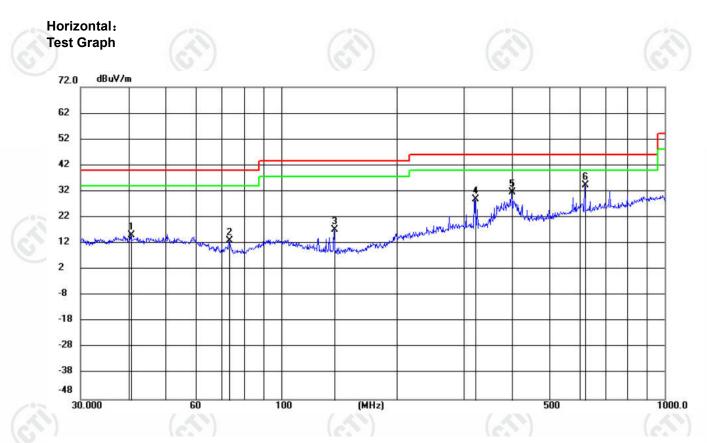




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Radiated Spurious Emission below 1GHz:

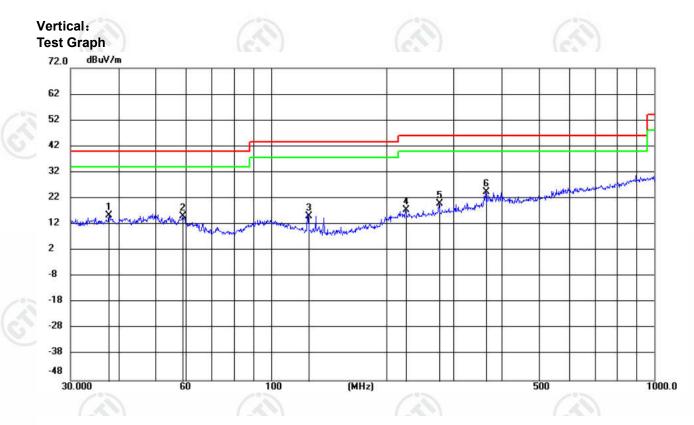
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 1Mbps for 802.11b was recorded in the report.



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		40.6588	0.70	14.51	15.21	40.00	-24.79	QP	199	17	
2		73.2435	3.20	9.97	13.17	40.00	-26.83	QP	100	332	
3	Ű.	137.4924	7.92	9.26	17.18	43.50	-26.32	QP	100	151	
4		319.9930	11.36	17.68	29.04	46.00	-16.96	QP	100	131	
5	9	400.0810	12.35	19.39	31.74	46.00	-14.26	QP	100	0	
6	*	619.4050	10.13	24.17	34.30	46.00	-11.70	QP	100	232	







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		37.8121	1.38	14.14	15.52	40.00	-24.48	QP	100	159	
2		58.8700	1.65	13.65	15.30	40.00	-24.70	QP	100	281	
3	3	125.0285	4.74	10.43	15.17	43.50	-28.33	QP	200	38	
4		224.9921	2.79	14.65	17.44	46.00	-28.56	QP	200	231	
5		275.0123	3.45	16.38	19.83	46.00	-26.17	QP	100	7	
6	*	363.2391	5.89	18.60	24.49	46.00	-21.51	QP	100	159	



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Radiated Spurious Emission above 1GHz:

Mode):		802.11 b Trans	mitting		Channe	el:	2412MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1153.6154	0.82	46.34	47.16	74.00	26.84	PASS	н	PK
2	1819.0819	3.43	38.20	41.63	74.00	32.37	PASS	Н	PK
3	4824.1216	-16.22	67.68	51.46	74.00	22.54	PASS	Н	PK
4	7788.3192	-11.34	49.37	38.03	74.00	35.97	PASS	Н	PK
5	12561.6374	-4.39	48.23	43.84	74.00	30.16	PASS	Н	PK
6	16264.8843	1.43	45.63	47.06	74.00	26.94	PASS	Н	PK
7	1194.6195	0.80	40.41	41.21	74.00	32.79	PASS	V	PK
8	1850.485	3.66	38.31	41.97	74.00	32.03	PASS	V	PK
9	4824.1216	-16.22	69.47	53.25	74.00	20.75	PASS	V	PK
10	6814.2543	-12.32	49.49	37.17	74.00	36.83	PASS	V	PK
11	9210.414	-7.89	48.04	40.15	74.00	33.85	PASS	V	PK
12	13674.7116	-1.74	45.90	44.16	74.00	29.84	PASS	V	PK

Mod	e:		802.11 b Trans	mitting		Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1154.2154	0.82	45.19	46.01	74.00	27.99	PASS	н	PK
2	1829.883	3.51	38.68	42.19	74.00	31.81	PASS	Н	PK
3	3249.0166	-20.08	58.43	38.35	74.00	35.65	PASS	Н	PK
4	4874.1249	-16.21	67.12	50.91	74.00	23.09	PASS	Н	PK
5	6000.2	-12.96	52.04	39.08	74.00	34.92	PASS	Н	PK
6	10680.512	-6.49	47.29	40.80	74.00	33.20	PASS	Н	PK
7	1154.0154	0.82	40.14	40.96	74.00	33.04	PASS	V	PK
8	1885.2885	3.92	38.46	42.38	74.00	31.62	PASS	V	PK
9	4874.1249	-16.21	67.76	51.55	74.00	22.45	PASS	V	PK
10	6000.2	-12.96	54.96	42.00	74.00	32.00	PASS	V	PK
11	7193.2796	-11.83	50.96	39.13	74.00	34.87	PASS	V	PK
12	12653.6436	-4.53	47.41	42.88	74.00	31.12	PASS	V	PK











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	12		100		12		1	150	
Mode	e:		802.11 b Trans	mitting		Channe	el:	2462MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1154.4154	0.82	45.35	46.17	74.00	27.83	PASS	Н	PK
2	1862.2862	3.75	38.64	42.39	74.00	31.61	PASS	Н	PK
3	3283.0189	-19.90	58.85	38.95	74.00	35.05	PASS	Н	PK
4	4924.1283	-16.11	65.47	49.36	74.00	24.64	PASS	Н	PK
5	6000.2	-12.96	50.98	38.02	74.00	35.98	PASS	Н	PK
6	9847.4565	-7.23	49.02	41.79	74.00	32.21	PASS	Н	PK
7	1204.4204	0.81	39.92	40.73	74.00	33.27	PASS	V	PK
8	1891.0891	3.96	38.50	42.46	74.00	31.54	PASS	V	PK
9	4924.1283	-16.11	65.86	49.75	74.00	24.25	PASS	V	PK
10	6000.2	-12.96	55.72	42.76	74.00	31.24	PASS	V	PK
11	9313.4209	-7.95	47.66	39.71	74.00	34.29	PASS	V	PK
12	13748.7166	-1.70	46.67	44.97	74.00	29.03	PASS	V	PK

	Mode	:		802.11 g Trans	smitting		Channe	el:	2412MHz	
	NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1152.6153	0.82	45.78	46.60	74.00	27.40	PASS	н	PK
	2	1980.298	4.45	38.67	43.12	74.00	30.88	PASS	н	PK
13	3	3216.0144	-20.26	58.88	38.62	74.00	35.38	PASS	Н	PK
	4	4829.1219	-16.22	2 61.00	44.78	74.00	29.22	PASS	Н	PK
-	5	9647.4432	-7.51	49.04	41.53	74.00	32.47	PASS	Н	PK
	6	16309.8873	1.51	45.72	47.23	74.00	26.77	PASS	Н	PK
	7	1147.2147	0.83	40.76	41.59	74.00	32.41	PASS	V	PK
	8	2001.1001	4.55	38.39	42.94	74.00	31.06	PASS	V	PK
	9	3191.0127	-20.37	7 57.87	37.50	74.00	36.50	PASS	V	PK
	10	4822.1215	-16.22	2 60.90	44.68	74.00	29.32	PASS	V	PK
	11	10136.4758	-7.05	47.60	40.55	74.00	33.45	PASS	V	PK
	12	16283.8856	1.60	44.80	46.40	74.00	27.60	PASS	V	PK
			1.0			6				1.0







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Report No. : EED32P80251001





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Mode	:		802.11 g Trans	mitting		Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1153.6154	0.82	45.77	46.59	74.00	27.41	PASS	Н	PK
2	1963.4964	4.36	37.52	41.88	74.00	32.12	PASS	Н	PK
3	3249.0166	-20.08	58.73	38.65	74.00	35.35	PASS	Н	PK
4	4878.1252	-16.21	56.47	40.26	74.00	33.74	PASS	Н	PK
5	6000.2	-12.96	51.51	38.55	74.00	35.45	PASS	Н	PK
6	9747.4498	-7.55	48.61	41.06	74.00	32.94	PASS	Н	PK
7	1327.6328	1.15	40.37	41.52	74.00	32.48	PASS	V	PK
8	1939.894	4.23	37.91	42.14	74.00	31.86	PASS	V	PK
9	3249.0166	-20.08	57.77	37.69	74.00	36.31	PASS	V	PK
10	4879.1253	-16.21	58.13	41.92	74.00	32.08	PASS	V	PK
11	6000.2	-12.96	55.67	42.71	74.00	31.29	PASS	V	PK
12	10256.4838	-6.75	47.78	41.03	74.00	32.97	PASS	V	PK
		165		10.7		10.5	1		1057

Mc	de:		802.11 g Trans	mitting		Channe	el:	2462MHz	
N	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1153.6154	0.82	45.23	46.05	74.00	27.95	PASS	Н	PK
2	1682.4682	2.82	38.61	41.43	74.00	32.57	PASS	Н	PK
3	3282.0188	-19.90) 57.19	37.29	74.00	36.71	PASS	Н	PK
4	4927.1285	-16.10	56.39	40.29	74.00	33.71	PASS	Н	PK
5	9848.4566	-7.23	48.18	40.95	74.00	33.05	PASS	Н	PK
6	13747.7165	-1.70	45.88	44.18	74.00	29.82	PASS	Н	PK
7	1331.0331	1.16	41.35	42.51	74.00	31.49	PASS	V	PK
8	1794.4794	3.26	38.45	41.71	74.00	32.29	PASS	V	PK
9	3283.0189	-19.90) 57.23	37.33	74.00	36.67	PASS	V	PK
10	4922.1281	-16.12	2 55.06	38.94	74.00	35.06	PASS	V	PK
1'	6000.2	-12.96	55.36	42.40	74.00	31.60	PASS	V	PK
12	11016.5344	-6.17	47.12	40.95	74.00	33.05	PASS	V	PK













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Report No. : EED32P80251001

Mode	:		802.11 n(ł	IT20)	Transmitting		Channe	el:	2412MHz	
NO	Freq. [MHz]	Factor [dB]	r Readi [dBµ	U 1	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1153.2153	0.82	45.0	6	45.88	74.00	28.12	PASS	Н	PK
2	2099.51	4.88	39.3	3	44.21	74.00	29.79	PASS	Н	PK
3	4822.1215	-16.22	2 56.7	3	40.51	74.00	33.49	PASS	Н	PK
4	6000.2	-12.96	50.9	3	37.97	74.00	36.03	PASS	Н	PK
5	9647.4432	-7.51	49.6	8	42.17	74.00	31.83	PASS	Н	PK
6	14395.7597	1.15	43.4	1	44.56	74.00	29.44	PASS	Н	PK
7	1332.2332	1.16	39.6	7	40.83	74.00	33.17	PASS	V	PK
8	1988.2988	4.49	38.3	0	42.79	74.00	31.21	PASS	V	PK
9	4823.1215	-16.22	2 59.1	1	42.89	74.00	31.11	PASS	V	PK
10	6000.2	-12.96	6 55.7	6	42.80	74.00	31.20	PASS	V	PK
11	9647.4432	-7.51	48.8	1	41.30	74.00	32.70	PASS	V	PK
12	13700.7134	-1.77	45.7	4	43.97	74.00	30.03	PASS	V	PK
		0			67		6			G

Ν	Node	:	80	02.11 n(HT20)) Transmitting		Channe	el:	2437MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1153.6154	0.82	44.84	45.66	74.00	28.34	PASS	Н	PK
	2	2090.5091	4.85	38.24	43.09	74.00	30.91	PASS	Н	PK
	3	4875.125	-16.21	55.87	39.66	74.00	34.34	PASS	Н	PK
-	4	6000.2	-12.96	52.03	39.07	74.00	34.93	PASS	Н	PK
	5	9748.4499	-7.55	48.62	41.07	74.00	32.93	PASS	Н	PK
-	6	13733.7156	-1.72	46.01	44.29	74.00	29.71	PASS	Н	PK
	7	1281.4281	1.01	40.32	41.33	74.00	32.67	PASS	V	PK
	8	1974.0974	4.42	38.19	42.61	74.00	31.39	PASS	V	PK
	9	3423.0282	-20.16	59.75	39.59	74.00	34.41	PASS	V	PK
	10	4875.125	-16.21	56.01	39.80	74.00	34.20	PASS	V	PK
	11	6000.2	-12.96	55.14	42.18	74.00	31.82	PASS	V	PK
	12	9183.4122	-8.02	47.34	39.32	74.00	34.68	PASS	V	PK























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Mode	:		802.11 n(HT20)) Transmitting		Channe	el:	2462MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1155.0155	0.83	45.98	46.81	74.00	27.19	PASS	н	PK
2	1972.0972	4.41	38.95	43.36	74.00	30.64	PASS	Н	PK
3	3283.0189	-19.90	59.13	39.23	74.00	34.77	PASS	Н	PK
4	4926.1284	-16.10	57.76	41.66	74.00	32.34	PASS	Н	PK
5	9234.4156	-7.91	48.34	40.43	74.00	33.57	PASS	Н	PK
6	16330.8887	1.05	45.92	46.97	74.00	27.03	PASS	Н	PK
7	1194.8195	0.80	48.32	49.12	74.00	24.88	PASS	V	PK
8	1925.4925	4.16	38.47	42.63	74.00	31.37	PASS	V	PK
9	3153.0102	-20.47	57.92	37.45	74.00	36.55	PASS	V	PK
10	4925.1283	-16.10	59.58	43.48	74.00	30.52	PASS	V	PK
11	9182.4122	-8.03	48.57	40.54	74.00	33.46	PASS	V	PK
12	17328.9553	3.60	44.37	47.97	74.00	26.03	PASS	V	PK
		10.7		6.2		10.2			10.2

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.









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Restricted bands:

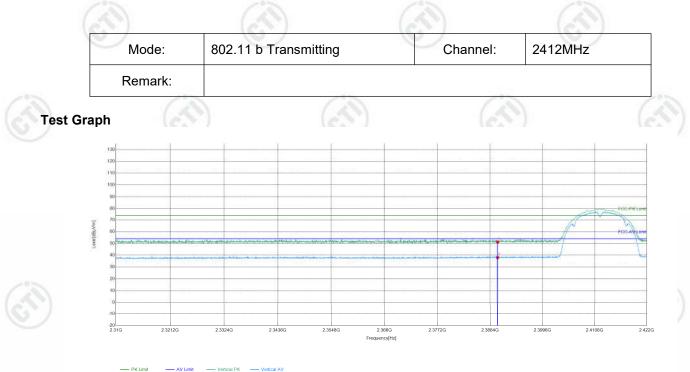
.

	((2)		$(a^{(n)})$		(6	$\langle \rangle$		(\land)
	Mode:	80	2.11 b Tran	smitting		Channel:	241	2MHz	-
	Remark:		1.221						
Test G	raph		(1)		(2))			
	130								
	120								
	90								
	80 70							A Vec P	time
	10 70 00 00 00 00 00 00 00 00 00 00 00 00	alaalaan kaasaa ahadaay	Longentation and a second states in success	ni, e	laine afte provinsi per de lan del qui l'hiere priv		un dyn ymydyd am yn Almit	FOGAN	
	30		ha na san da ta san da sa	nyenna marinda ar nyenna nyenna yeni angan a	e da a como tentro de la como de l	•			
	10								
	-10 -20 2.31G 2.321	2G 2.332	4G 2.3436G	2.3548G	2,366G 2,3772	G 2.3884G	2.3996G	2.4108G	2.422G
					requency[Hz]				
	PK Limit	AV Limit — Horiz	contal PK — Horizontal AV	,					
Suspe	ected List								
	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remar
NO									
NO 1	2390	13.75	37.18	50.93	74.00	23.07	PASS	Horizontal	PK





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PK Limit AV Limit Vertical PK Vertical AV
 PK Detector
 AV Detector

_	16.4			ALC AL		16.4.			LC ST /	
	Suspecte	d List								
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	13.75	37.59	51.34	74.00	22.66	PASS	Vertical	PK
C	2	2390	13.75	24.27	38.02	74.00	35.98	PASS	Vertical	AV

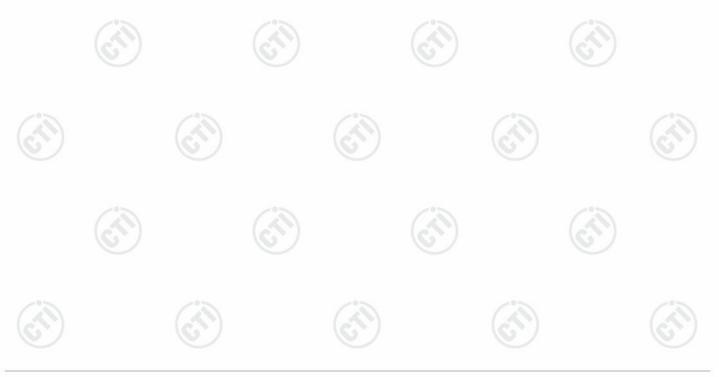




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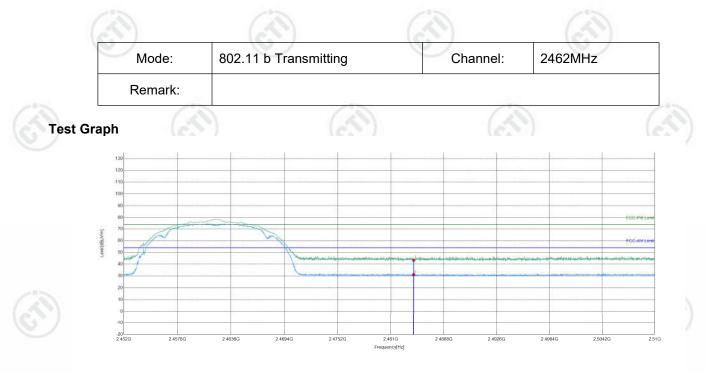


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	37.99	44.56	74.00	29.44	PASS	Horizontal	PK
C	2	2483.5	6.57	24.21	30.78	74.00	43.22	PASS	Horizontal	AV





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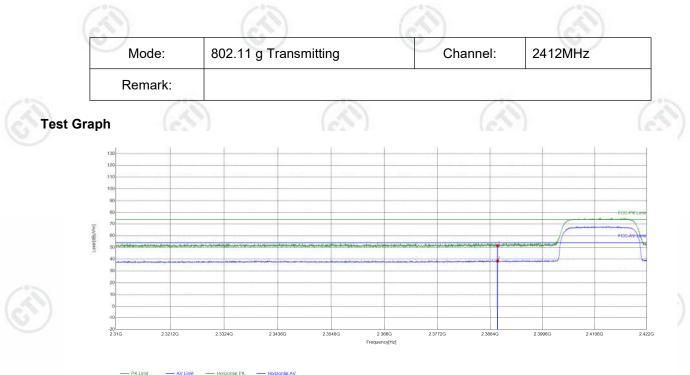
PK Limit — AV Limit — Vertical PK — Vertical AV AV Detector

	Suspecte	d List								
~~~	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	2483.5	6.57	36.87	43.44	74.00	30.56	PASS	Vertical	PK
	2	2483.5	6.57	24.56	31.13	74.00	42.87	PASS	Vertical	AV



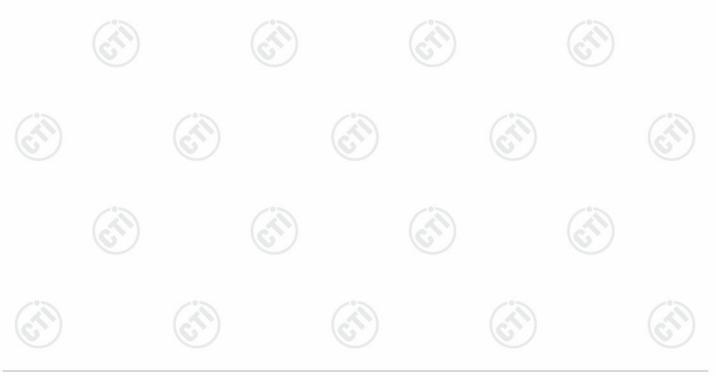


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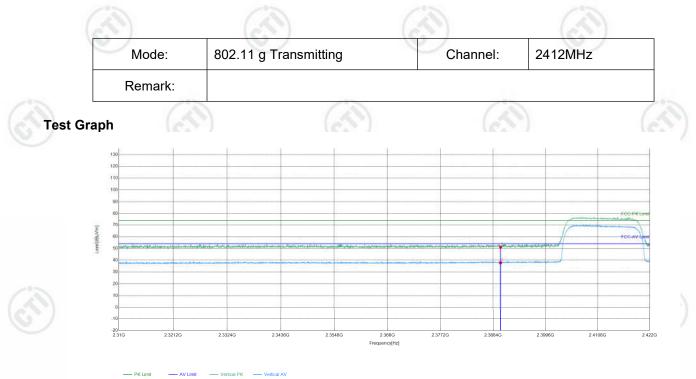
_	PKLIIIII		v Linnit	- Holizoni		IONZONIE	I AV	
*	PK Detector	*	AV Detector					

	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	37.78	51.53	74.00	22.47	PASS	Horizontal	PK
C	2	2390	13.75	24.78	38.53	74.00	35.47	PASS	Horizontal	AV



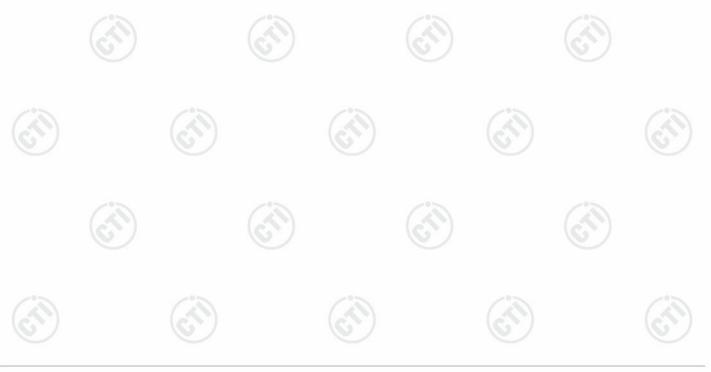


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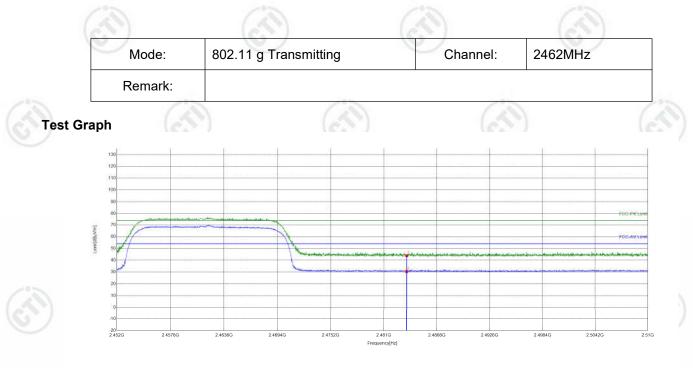
- AV Limit * AV Detector

	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	37.40	51.15	74.00	22.85	PASS	Vertical	PK
U	2	2390	13.75	24.13	37.88	74.00	36.12	PASS	Vertical	AV





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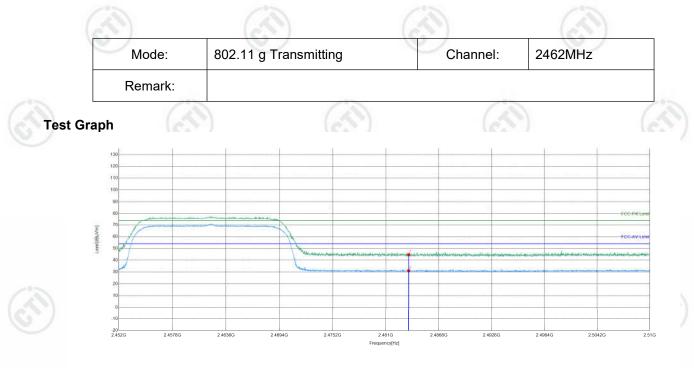
#### PK Limit AV Limit Horizontal PK Horizontal A AV Detector

	Suspecte	d List								
-07	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	37.28	43.85	74.00	30.15	PASS	Horizontal	PK
U	2	2483.5	6.57	23.79	30.36	74.00	43.64	PASS	Horizontal	AV





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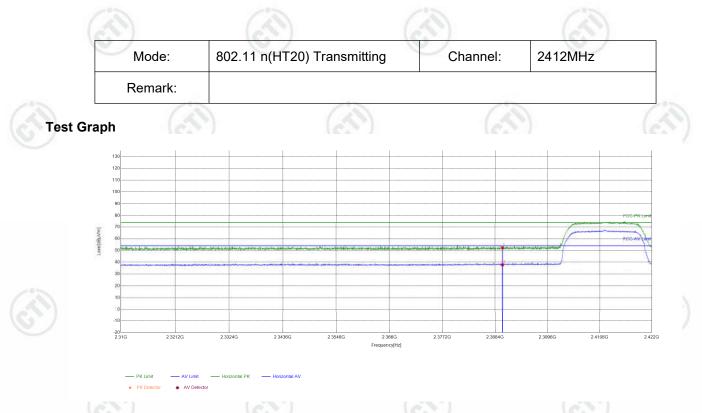
#### 

	Suspecte	d List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	38.15	44.72	74.00	29.28	PASS	Vertical	PK
U	2	2483.5	6.57	24.44	31.01	74.00	42.99	PASS	Vertical	AV

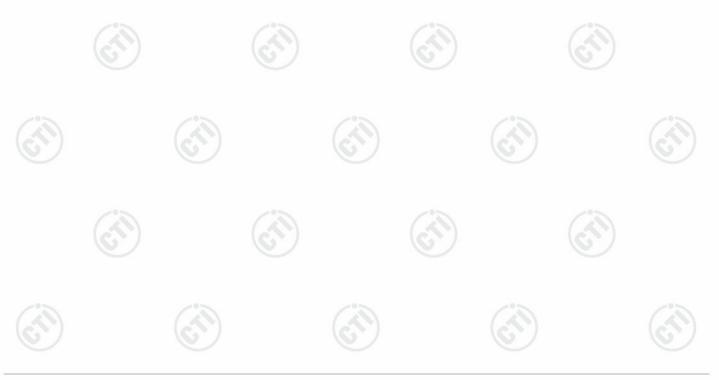




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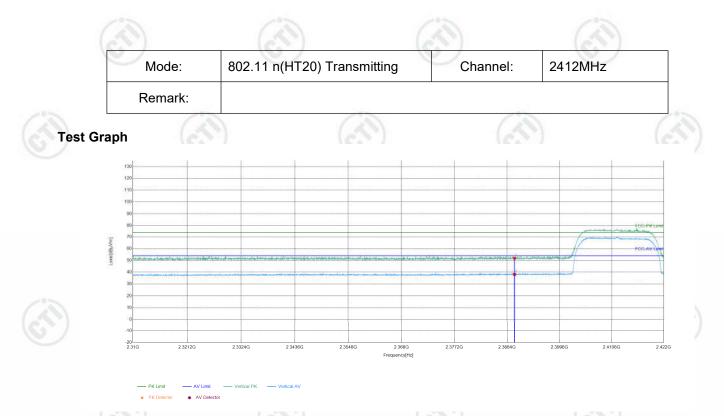


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(A)	1	2390	13.75	38.49	52.24	74.00	21.76	PASS	Horizontal	PK
6	2	2390	13.75	24.02	37.77	74.00	36.23	PASS	Horizontal	AV





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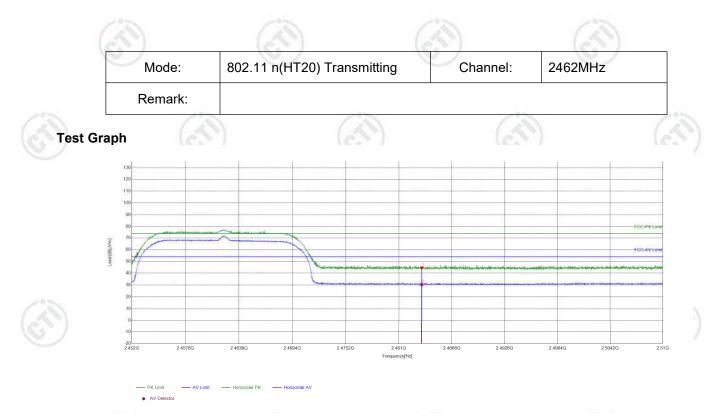


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$(\mathcal{A})$	1	2390	13.75	38.14	51.89	74.00	22.11	PASS	Vertical	PK
(U)	2	2390	13.75	24.39	38.14	74.00	35.86	PASS	Vertical	AV

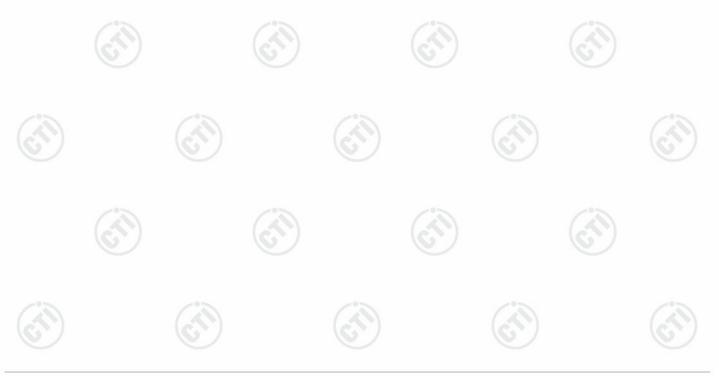




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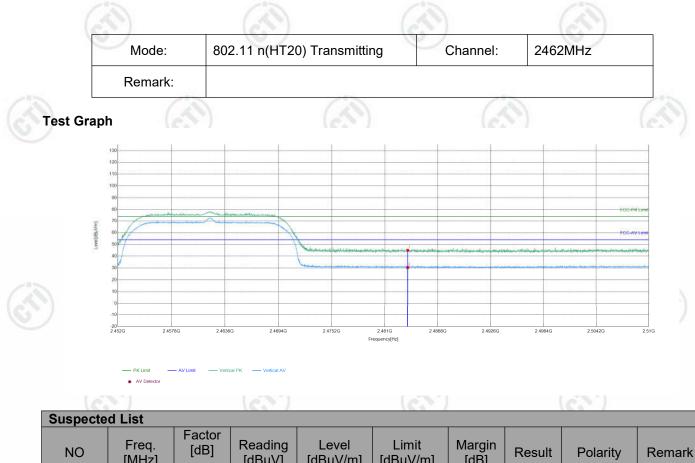


	Suspected List										
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
$(\mathcal{A})$	1	2483.5	6.57	38.08	44.65	74.00	29.35	PASS	Horizontal	PK	
(C)	2	2483.5	6.57	23.85	30.42	74.00	43.58	PASS	Horizontal	AV	





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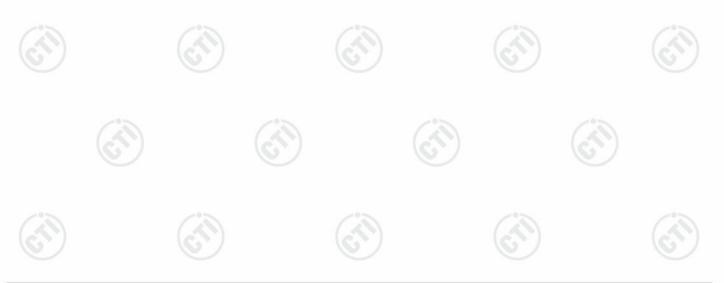
-	NO	[MHz]	[gB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
~	1	2483.5	6.57	38.49	45.06	74.00	28.94	PASS	Vertical	PK
۲	2	2483.5	6.57	23.86	30.43	74.00	43.57	PASS	Vertical	AV

#### 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







(5)

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# 8 Appendix 2.4G WIFI

Refer to Appendix: 2.4G WIFI of EED32P80251001.

