

EST REPORT

- Product Trade mark Model/Type reference Serial Number **Report Number** FCC ID Date of Issue **Test Standards** Test result
- reMarkable 2
- reMarkable
- RM110, RM111, RM112, RM113 1
- 2c7ce3579f1 ÷
- 5 EED32N80457601
- 2AMK2-RM110B
- Aug. 24, 2021
- 47 CFR Part 15 Subpart C
- PASS

Prepared for: reMarkable AS Biermanns gate 6, 0473 Oslo, Norway

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



T	m	chen
	Tom	Chen

David Wang

David Wang

Reviewed by:

Date:

Aaron Ma

Aaron Ma

Aug. 24 2021

Check No.:1021080621

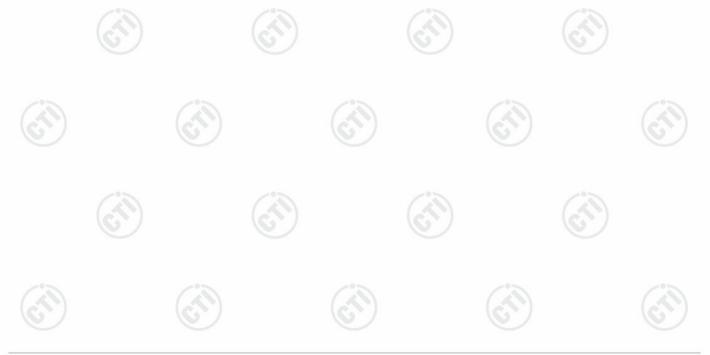








		•••••••••••••••••••••••••••••••••••••••	••••••	•••••
2 CONTENT				
3 VERSION				
4 TEST SUMMARY				
5 GENERAL INFORMATION			••••••	
 5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF EUT 5.3 TEST CONFIGURATION 5.4 TEST ENVIRONMENT 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 TEST LOCATION	6)	٢	
6 EQUIPMENT LIST				
7 TEST RESULTS AND MEASUREMENT	DATA			
7.1 ANTENNA REQUIREMENT				
7.2 AC POWER LINE CONDUCTED EMISSIC				
7.3 MAXIMUM CONDUCTED OUTPUT POWE				
7.4 DTS BANDWIDTH 7.5 MAXIMUM POWER SPECTRAL DENSITY				
7.6 BAND EDGE MEASUREMENTS AND COL				
7.7 RADIATED SPURIOUS EMISSION & RES	STRICTED BANDS			
8 APPENDIX A				



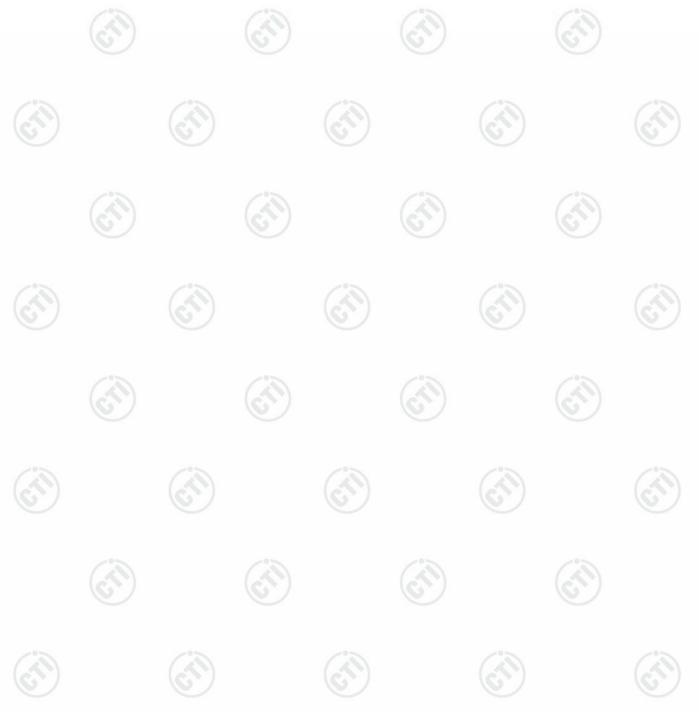


3 Version



Page 3 of 54

Version	No.	Date	Description	
00		Aug. 24, 2021	Original	
5				100
 (1) 	(25)	$(c^{(n)})$		



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



4 Test Summary



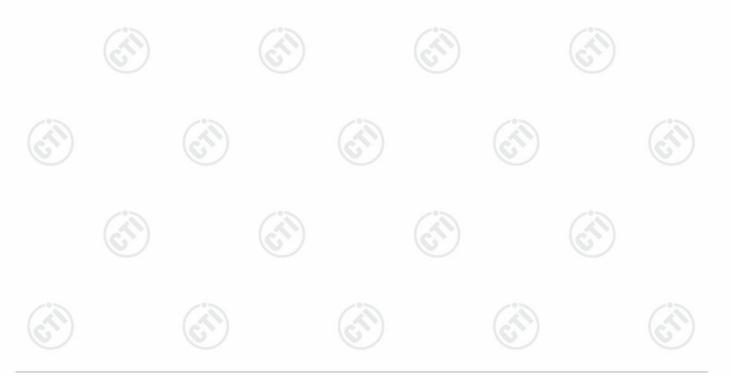


Frestounnary		1°
Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	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
	6N) (6N)	(CN)

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.: RM110, RM111, RM112, RM113

Only the model RM110 was tested, The added models and original model:The Electrical circuit design, Layout, components and internal wiring are identical. Only the model name and packaging contents are different.





General Information 5

5.1 Client Information

Applicant:	reMarkable AS
Address of Applicant:	Biermanns gate 6, 0473 Oslo, Norway
Manufacturer:	reMarkable AS
Address of Manufacturer:	Biermanns gate 6, 0473 Oslo, Norway
Factory:	Dongguan Kaifa Technology Co., Ltd.
Address of Factory:	No.2 Junma Road, Chigang Community, Humen Town, Dongguan City, Guangdong Province, 523921. P. R. China

5.2 General Description of EUT

Product Name:	reMarkable 2		
Model No.(EUT):	RM110, RM111, R	M112, RM113	
Test Model No:	RM110		-0-
Trade mark:	reMarkable		(\mathcal{A})
Product Type:	🗌 Mobile 🛛 P	ortable 🗌 Fix Location	U
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	IEEE for 802.11g :	DSSS(CCK,DQPSK,DBPSK) OFDM(64QAM, 16QAM, QPSK, BPSK) HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK)	
Number of Channel:	IEEE 802.11b/g, IE	EEE 802.11n HT20: 11 Channels	
Channel Separation:	5MHz		
Antenna Type:	PCB Antenna		(3)
Antenna Gain:	5.42dBi	N) (CN)	(\mathcal{O})
Power Supply:	USB Port	DC 5V	S
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Battery:	Model: Fusion DC 3.85V 3000mAh 11.55Wh	
Test Voltage:	Battery 3.85V		
Sample Received Date:	Jun. 11, 2021		
Sample tested Date:	Jun. 11, 2021 to A	ug. 12, 2021	



Page 5 of 54







#### Page 6 of 54

Operation	Frequency ea		el (802.11b/g/n		)	$(c^{-})$	
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		(1)

#### 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)

	Char	nnel		Frequ	ency	
(C)	The lowes		$\bigcirc$	2412		(C)
_	The middle			2437		
	The highes	st channel		2462	MHz	







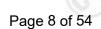
### 5.3 Test Configuration

EUT Test Software Setting	js:		
Software:	PUTTY		
EUT Power Grade:	Default		
Use test software to set the transmitting of the EUT.	lowest frequency, the mic	dle frequency and the h	highest frequency keep
Test Mode:			
We have verified the construct the EUT in transmitting open			t modes were carried out with fined as follows:
Per-scan all kind of data ra was worst case.	ate in lowest channel, a	nd found the follow lis	t which it
Moc		(67)	Data rate
802.1			1Mbps
802.1			6Mbps
802.11n(		are beth the "waret eee	6.5Mbps e" and "worst setup" 1Mbps for
302.11b, 6Mbps for 802.11c			e and worst setup intops for
5.4 Test Environm Operating Environm			
	ent:		
Operating Environm	ent:		
Operating Environm Radiated Spurious E	ent: Emissions:		
Operating Environm Radiated Spurious E Temperature:	ent: Emissions: 22~25.0 °C 50~56 % RH		
Operating Environm Radiated Spurious E Temperature: Humidity:	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar		
Operating Environm Radiated Spurious E Temperature: Humidity: Atmospheric Pressure	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar		
Operating Environm Radiated Spurious E Temperature: Humidity: Atmospheric Pressure Conducted Emission	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns:		
Operating Environm Radiated Spurious E Temperature: Humidity: Atmospheric Pressure Conducted Emission Temperature:	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns: 22~25.0 °C 50~56 % RH		
Operating Environm Radiated Spurious E Temperature: Humidity: Atmospheric Pressure Conducted Emission Temperature: Humidity:	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns: 22~25.0 °C 50~56 % RH		
Operating Environm         Radiated Spurious E         Temperature:         Humidity:         Atmospheric Pressure         Conducted Emission         Temperature:         Humidity:         Atmospheric Pressure         Conducted Emission         Temperature:         Humidity:         Atmospheric Pressure	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns: 22~25.0 °C 50~56 % RH		
Radiated Spurious E         Temperature:         Humidity:         Atmospheric Pressure         Conducted Emission         Temperature:         Humidity:         Atmospheric Pressure         Conducted Emission         Temperature:         Humidity:         Atmospheric Pressure         RF Conducted:	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns: 22~25.0 °C 50~56 % RH e: 1010mbar		
Operating Environm Radiated Spurious E Temperature: Humidity: Atmospheric Pressure Conducted Emission Temperature: Humidity: Atmospheric Pressure RF Conducted:	ent: Emissions: 22~25.0 °C 50~56 % RH e: 1010mbar ns: 22~25.0 °C 50~56 % RH e: 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
QUICK CHARGE	Shenzhen GOOD-SHE	GS-551B	FCC	Client
QUICK CHARGE	Technology Co., Ltd.	G3-551B	FUC	Client

2) cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
	USB Cable	Dongguan Kaifa Technology Co., Ltd.	Shielded (100cm)	Client

#### 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 3368385

No tests were sub-contracted.

FCC Designation No.: CN1164

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	RF power, conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
-0-		3.3dB (9kHz-30MHz)
3	Dedicted Sources emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	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%
2		



# CTI华测检测

Report No. : EED32N80457601

## 6 Equipment List

		Conducted distu	irbance Test			
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Receiver	R&S	ESCI	100435	04-27-2021	04-26-2022	
Temperature/ Humidity Indicator	Defu	TH128	/	$\underline{\mathbb{C}}$	0	
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022	
Barometer	changchun	DYM3	1188			

Page 9 of 54

		RF test s	vstem			
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-28-2020	12-27-2021	
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021	
Signal Generator	Keysight	E8257D	MY53401106	12-28-2020	12-27-2021	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-28-2020 06-23-2021	06-27-2021 06-22-2022	
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		- 6	- 6	
High-pass filter	MICRO- TRONICS	SPA-F-63029-4		0	IJ	
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021	
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021	
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3		<u>(S)</u>	6	

		3M Semi/full-anec	hoic Chamber			
Equipment	Manufacturer	Model No. Serial Number		Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
3M Chamber & Accessory Equipment	трк	SAC-3		05-24-2019	05-23-2022	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024	
Receiver	R&S	ESCI7	100938-003	10-16-2020	10-15-2021	
Multi device Controller	maturo	NCD/070/10711 112				
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020 06-23-2021	06-28-2021 06-22-2022	
Communication test set	Adilent		GB47050534	03-01-2019	02-28-2022	
Cable line	Fulai(7M)	SF106	5219/6A			
Cable line	Fulai(6M)	SF106	5220/6A			
Cable line	Fulai(3M)	SF106	5216/6A			
Cable line	Fulai(3M)	SF106	5217/6A		/3	
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001		$(\mathcal{O})$	(5	











## Page 10 of 54

202	1	3M full-anechoi	0			
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			
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022	
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	
Communication Antenna	Schwarzbeck	CLSA 0110L	1014		シ	
Horn Antenna	ETS- LINDGREN	3117	57407	07-10-2018 07-04-2021	2021         07-03-2024           2021         05-19-2022	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021		
Communication test set	R&S	CMW500	102898	12-31-2020		
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022	
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	ТДК	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		- 6	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003		@	
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001			
Cable line	Times	EMC104-NMNM- 1000	SN160710	- (	- 6	
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001	(	D	
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	$(\mathcal{O})$	(6	



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:

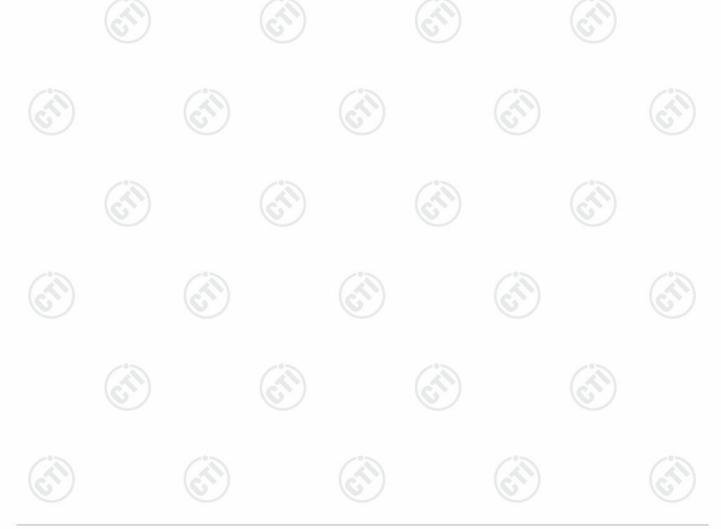
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PCB antenna	The best case gain of the antenna is 5.42dBi	

The antenna is PCB antenna. The best case gain of the antenna is 5.42dBi.









Page 12 of 54

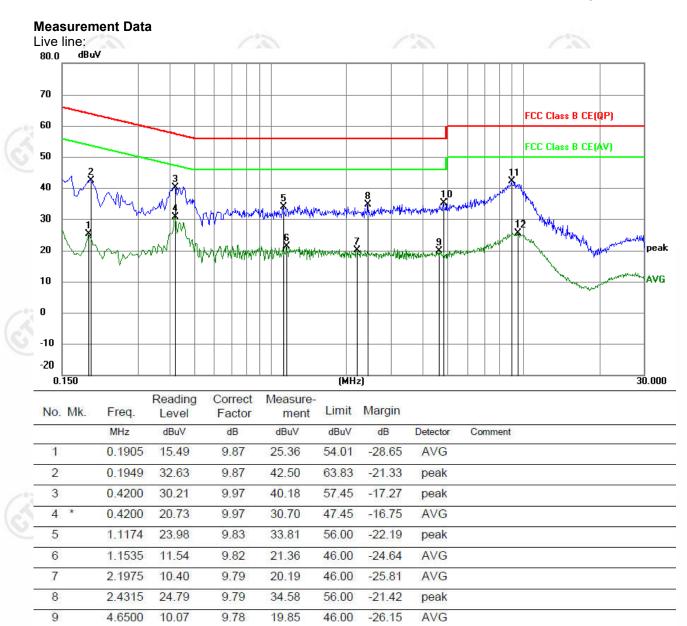
#### 7.2 AC Power Line Conducted Emissions

-	Test Requirement:	47 CFR Part 15C Section 15.2	07					
-	Test Method:	ANSI C63.10: 2013						
-	Test Frequency Range:	150kHz to 30MHz						
l	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
l	Limit:	-0.5	Limit (d	BuV)				
		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 logarithm	of the frequency.	10-				
	Test Setup:	Shielding Room	AE	Test Receiver				
		<ul> <li>room.</li> <li>2) The EUT was connected Impedance Stabilization Naimpedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the rational ground reference plane. An placed on the horizontal ground reference plane. An placed on the horizontal ground reference plane. The EUT shall be 0.4 m overtical ground reference reference plane. The LISN unit under test and bond mounted on top of the grout the closest points of the L and associated equipment</li> <li>5) In order to find the maximutant and all of the interface cabitation of the second cabitation of the closest point point</li></ul>	etwork) which provides cables of all other N 2, which was bonde s the LISN 1 for the was used to connect r ting of the LISN was n ced upon a non-meta of for floor-standing an ound reference plane. h a vertical ground ref from the vertical ground plane was bonded 1 was placed 0.8 m ded to a ground ref ind reference plane. T ISN 1 and the EUT. was at least 0.8 m fror im emission, the relati	s a $50\Omega/50\mu$ H + $5\Omega$ line units of the EUT we do to the ground referen- unit being measured. nultiple power cables to ot exceeded. llic table 0.8m above the rrangement, the EUT we reference plane. The rear and reference plane. The from the boundary of the erence plane for LISI his distance was between All other units of the EU n the LISN 2. we positions of equipment				
	Test Mode:	ANSI C63.10: 2013 on con All modes were tested, only th report.		vas recorded in the				
	Test Results:	Pass	23	12				









#### Remark:

10

11

12

4.8480

9.0060

9.4515

25.26

32.30

15.86

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

35.04

42.08

25.64

56.00

60.00

50.00

-20.96

-17.92

-24 36

peak

peak

AVG

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

9.78

9.78

9.78

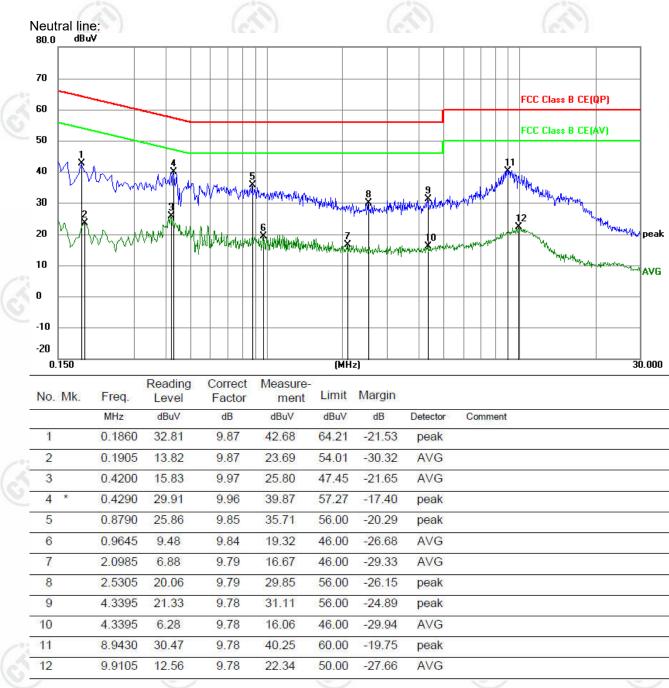
3. If the Peak value under Average limit, the Average value is not recorded in the report.







Page 14 of 54



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.









### 7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	CT CT
	Control Congruder Power Suppy TEMPERATURE CABINET 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
	<ul> <li>bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.</li> <li>2. Method AVGPM-G Average power measurement</li> <li>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.</li> </ul>
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A









### 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 Congular Power Supply Power TemPERATURE CABNET Table
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor.         a) Set RBW = 100 kHz.         b) Set the VBW ≥[3 × RBW].         c) Detector = peak.         d) Trace mode = max hold.         e) Sweep = auto couple.
	<ul> <li>f) Allow the trace to stabilize.</li> <li>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.</li> </ul>
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A



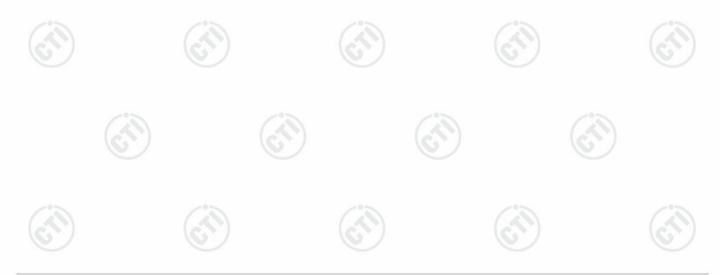






### 7.5 Maximum Power Spectral Density

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



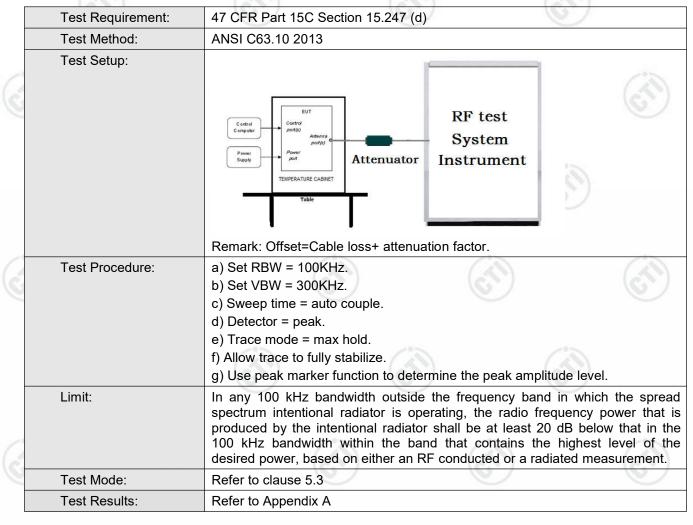






Page 18 of 54

#### 7.6 Band Edge Measurements and Conducted Spurious Emission











## Page 19 of 54

### 7.7 Radiated Spurious Emission & Restricted bands

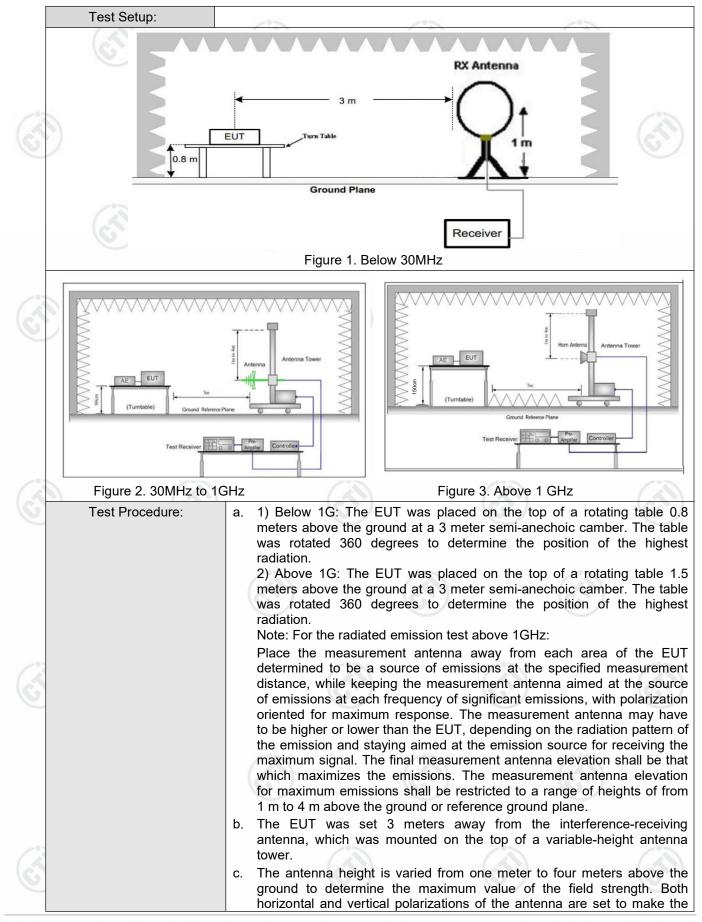
							1
	Test Requirement:	47 CFR Part 15C Secti	on 1	15.209 and 15.	.205	(C)	
	Test Method:	ANSI C63.10 2013					
	Test Site:	Measurement Distance	: 3n	n (Semi-Anech	oic Cham	ber)	
2	Receiver Setup:	Frequency	1	Detector	RBW	VBW	Remark
2		0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak
		0.009MHz-0.090MH	z	Average	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	z 300kHz	Quasi-peak
		Above 1GHz		Peak	1MHz	3MHz	Peak
				Peak	1MHz	10kHz	Average
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m
		0.009MHz-0.490MHz	2400/F(kHz)		-	~	300
		0.490MHz-1.705MHz		4000/F(kHz)	-	<u>(</u>	30
		1.705MHz-30MHz	30		-		30
		30MHz-88MHz		100	40.0	Quasi-peak	3
		88MHz-216MHz		150	43.5	Quasi-peak	3
		216MHz-960MHz	2	200	46.0	Quasi-peak	3
2		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 e peak emission level rac	200 200	dB above the i pment under te	maximum est. This p	permitted av	erage emission







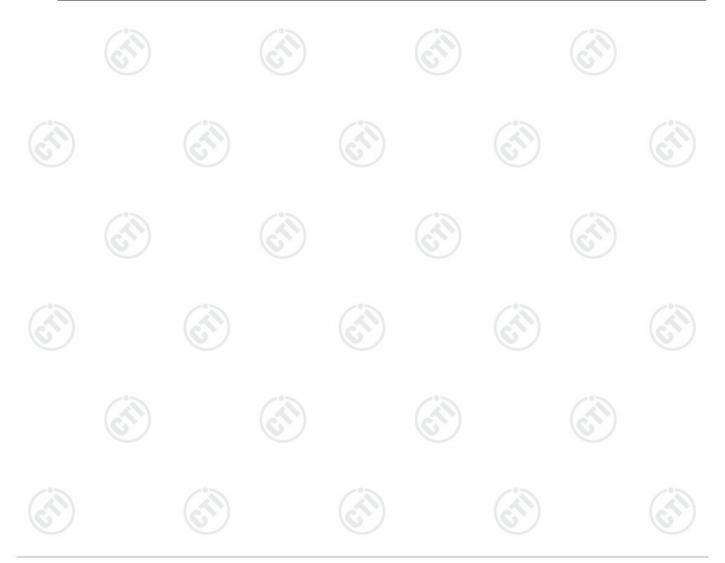
## Page 20 of 54





	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass

Page 21 of 54



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

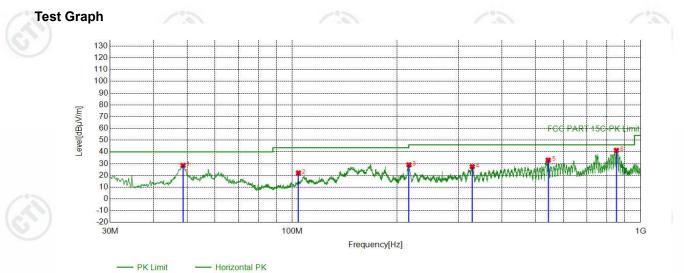




Page 22 of 54

#### **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.





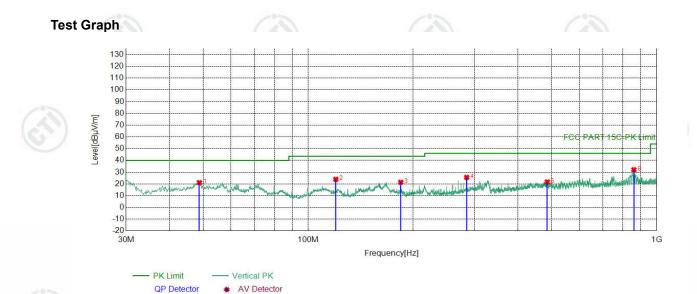
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
13	1	48.6259	-17.17	45.71	28.54	40.00	11.46	PASS	Horizontal	PK
C	2	104.2124	-18.39	40.51	22.12	43.50	21.38	PASS	Horizontal	PK
Ľ	3	216.3556	-17.41	46.42	29.01	46.00	16.99	PASS	Horizontal	PK
	4	328.6929	-14.75	42.19	27.44	46.00	18.56	PASS	Horizontal	PK
	5	542.9873	-9.97	43.03	33.06	46.00	12.94	PASS	Horizontal	PK
	6	852.1572	-5.57	46.93	41.36	46.00	4.64	PASS	Horizontal	PK
		(GT)		67		(C)			ST/	



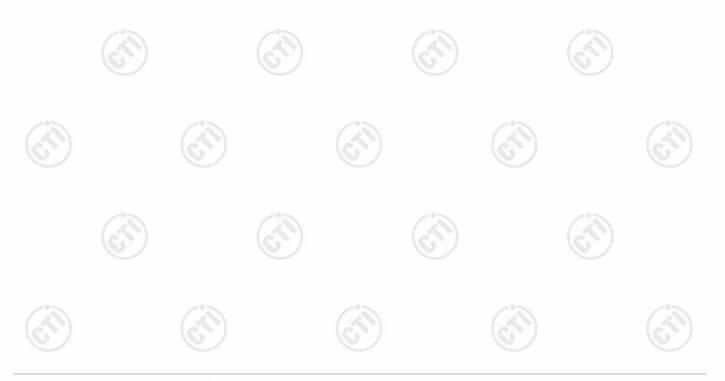








Suspe	cted List		_		_			_	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	48.7229	-17.17	38.29	21.12	40.00	18.88	PASS	Vertical	PK
2	120.0250	-20.08	44.02	23.94	43.50	19.56	PASS	Vertical	PK
3	184.3424	-19.36	40.76	21.40	43.50	22.10	PASS	Vertical	PK
4	285.0385	-15.83	41.39	25.56	46.00	20.44	PASS	Vertical	PK
5	485.5576	-11.13	32.81	21.68	46.00	24.32	PASS	Vertical	PK
6	860.5001	-5.41	37.49	32.08	46.00	13.92	PASS	Vertical	PK
7					•	No.			







## Page 24 of 54

#### Radiated Spurious Emission above 1GHz:

	Mode	:	8	02.11 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
3	1	1058.6059	0.89	43.04	43.93	74.00	30.07	PASS	н	PK
-	2	1952.0952	4.30	41.44	45.74	74.00	28.26	PASS	Н	PK
	3	2760.5761	5.61	41.14	46.75	74.00	27.25	PASS	Н	PK
	4	5311.1541	-14.78	55.98	41.20	74.00	32.80	PASS	Н	PK
	5	9082.4055	-8.65	53.58	44.93	74.00	29.07	PASS	Н	PK
	6	13157.6772	-3.35	51.92	48.57	74.00	25.43	PASS	Н	PK
	7	1362.6363	1.27	41.66	42.93	74.00	31.07	PASS	V	PK
	8	1993.2993	4.52	43.05	47.57	74.00	26.43	PASS	V	PK
10	9	4261.0841	-17.54	59.81	42.27	74.00	31.73	PASS	V	PK
5	10	5901.1934	-13.60	54.90	41.30	74.00	32.70	PASS	V	PK
2	11	7675.3117	-11.08	54.38	43.30	74.00	30.70	PASS	V	PK
	12	13700.7134	-1.77	52.50	50.73	74.00	23.27	PASS	V	PK

Mode	:		802.11 b Tran	smitting		Channe	el:	2437MHz		
NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1385.2385	1.34	41.84	43.18	74.00	30.82	PASS	н	PK	
2	3982.0655	-18.93	57.40	38.47	74.00	35.53	PASS	Н	PK	
3	4874.1249	-16.21	58.87	42.66	74.00	31.34	PASS	н	PK	
4	6253.2169	-13.06	53.91	40.85	74.00	33.15	PASS	Н	PK	
5	9273.4182	-7.93	52.51	44.58	74.00	29.42	PASS	Н	PK	
6	14339.7560	0.22	50.01	50.23	74.00	23.77	PASS	Н	PK	
7	1454.2454	1.43	41.81	43.24	74.00	30.76	PASS	V	PK	
8	1995.4996	4.53	43.91	48.44	74.00	25.56	PASS	V	PK	
9	3799.0533	-19.25	58.27	39.02	74.00	34.98	PASS	V	PK	
10	5988.1992	-13.04	54.73	41.69	74.00	32.31	PASS	V	PK	
11	8844.3896	-9.35	52.40	43.05	74.00	30.95	PASS	V	PK	
12	14310.7541	-0.26	50.29	50.03	74.00	23.97	PASS	V	PK	
	NO 1 2 3 4 5 6 7 8 9 10 11	NO         [MHz]           1         1385.2385           2         3982.0655           3         4874.1249           4         6253.2169           5         9273.4182           6         14339.7560           7         1454.2454           8         1995.4996           9         3799.0533           10         5988.1992           11         8844.3896	Freq. [MHz]         Factor [dB]           1         1385.2385         1.34           2         3982.0655         -18.93           3         4874.1249         -16.21           4         6253.2169         -13.06           5         9273.4182         -7.93           6         14339.7560         0.22           7         1454.2454         1.43           8         1995.4996         4.53           9         3799.0533         -19.25           10         5988.1992         -13.04           11         8844.3896         -9.35	NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]           1         1385.2385         1.34         41.84           2         3982.0655         -18.93         57.40           3         4874.1249         -16.21         58.87           4         6253.2169         -13.06         53.91           5         9273.4182         -7.93         52.51           6         14339.7560         0.22         50.01           7         1454.2454         1.43         41.81           8         1995.4996         4.53         43.91           9         3799.0533         -19.25         58.27           10         5988.1992         -13.04         54.73           11         8844.3896         -9.35         52.40	NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]         Level [dBµV/m]           1         1385.2385         1.34         41.84         43.18           2         3982.0655         -18.93         57.40         38.47           3         4874.1249         -16.21         58.87         42.66           4         6253.2169         -13.06         53.91         40.85           5         9273.4182         -7.93         52.51         44.58           6         14339.7560         0.22         50.01         50.23           7         1454.2454         1.43         41.81         43.24           8         1995.4996         4.53         43.91         48.44           9         3799.0533         -19.25         58.27         39.02           10         5988.1992         -13.04         54.73         41.69           11         8844.3896         -9.35         52.40         43.05	NO         Freq. [MHz]         Factor [dB]         Reading [dB]         Level [dBµV]         Limit [dBµV/m]           1         1385.2385         1.34         41.84         43.18         74.00           2         3982.0655         -18.93         57.40         38.47         74.00           3         4874.1249         -16.21         58.87         42.66         74.00           4         6253.2169         -13.06         53.91         40.85         74.00           5         9273.4182         -7.93         52.51         44.58         74.00           6         14339.7560         0.22         50.01         50.23         74.00           7         1454.2454         1.43         41.81         43.24         74.00           8         1995.4996         4.53         43.91         48.44         74.00           9         3799.0533         -19.25         58.27         39.02         74.00           10         5988.1992         -13.04         54.73         41.69         74.00           11         8844.3896         -9.35         52.40         43.05         74.00	NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]         Level [dBµV/m]         Limit [dBµV/m]         Margin [dB]           1         1385.2385         1.34         41.84         43.18         74.00         30.82           2         3982.0655         -18.93         57.40         38.47         74.00         35.53           3         4874.1249         -16.21         58.87         42.66         74.00         31.34           4         6253.2169         -13.06         53.91         40.85         74.00         33.15           5         9273.4182         -7.93         52.51         44.58         74.00         23.77           7         1454.2454         1.43         41.81         43.24         74.00         30.76           8         1995.4996         4.53         43.91         48.44         74.00         25.56           9         3799.0533         -19.25         58.27         39.02         74.00         34.98           10         5988.1992         -13.04         54.73         41.69         74.00         32.31           11         8844.3896         -9.35         52.40         43.05         74.00         30.95	NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]         Level [dBµV/m]         Limit [dBµV/m]         Margin [dB]         Result           1         1385.2385         1.34         41.84         43.18         74.00         30.82         PASS           2         3982.0655         -18.93         57.40         38.47         74.00         35.53         PASS           3         4874.1249         -16.21         58.87         42.66         74.00         31.34         PASS           4         6253.2169         -13.06         53.91         40.85         74.00         33.15         PASS           5         9273.4182         -7.93         52.51         44.58         74.00         23.77         PASS           6         14339.7560         0.22         50.01         50.23         74.00         20.77         PASS           7         1454.2454         1.43         41.81         43.24         74.00         30.76         PASS           8         1995.4996         4.53         43.91         48.44         74.00         30.76         PASS           9         3799.0533         -19.25         58.27         39.02         74.00         34.98 <td< td=""><td>NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]         Level [dBµV/m]         Limit [dBµV/m]         Margin [dB]         Result         Polarity           1         1385.2385         1.34         41.84         43.18         74.00         30.82         PASS         H           2         3982.0655         -18.93         57.40         38.47         74.00         35.53         PASS         H           3         4874.1249         -16.21         58.87         42.66         74.00         31.34         PASS         H           4         6253.2169         -13.06         53.91         40.85         74.00         33.15         PASS         H           5         9273.4182         -7.93         52.51         44.58         74.00         23.77         PASS         H           6         14339.7560         0.22         50.01         50.23         74.00         30.76         PASS         V           8         1995.4996         4.53         43.91         48.44         74.00         30.76         PASS         V           9         3799.0533         -19.25         58.27         39.02         74.00         34.98         PASS         V</td></td<>	NO         Freq. [MHz]         Factor [dB]         Reading [dBµV]         Level [dBµV/m]         Limit [dBµV/m]         Margin [dB]         Result         Polarity           1         1385.2385         1.34         41.84         43.18         74.00         30.82         PASS         H           2         3982.0655         -18.93         57.40         38.47         74.00         35.53         PASS         H           3         4874.1249         -16.21         58.87         42.66         74.00         31.34         PASS         H           4         6253.2169         -13.06         53.91         40.85         74.00         33.15         PASS         H           5         9273.4182         -7.93         52.51         44.58         74.00         23.77         PASS         H           6         14339.7560         0.22         50.01         50.23         74.00         30.76         PASS         V           8         1995.4996         4.53         43.91         48.44         74.00         30.76         PASS         V           9         3799.0533         -19.25         58.27         39.02         74.00         34.98         PASS         V	















## Page 25 of 54

	20-			2000		1000				
	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
-	1	1331.2331	1.16	42.28	43.44	74.00	30.56	PASS	Н	PK
4	2	1992.6993	4.51	42.46	46.97	74.00	27.03	PASS	Н	PK
2	3	4633.1089	-16.66	56.21	39.55	74.00	34.45	PASS	Н	PK
	4	7701.3134	-11.04	52.91	41.87	74.00	32.13	PASS	Н	PK
	5	11753.5836	-6.17	54.67	48.50	74.00	25.50	PASS	Н	PK
	6	14309.7540	-0.28	50.82	50.54	74.00	23.46	PASS	Н	PK
	7	1353.6354	1.24	41.57	42.81	74.00	31.19	PASS	V	PK
	8	1991.4992	4.51	43.14	47.65	74.00	26.35	PASS	V	PK
	9	3792.0528	-19.29	57.63	38.34	74.00	35.66	PASS	V	PK
	10	5760.1840	-13.71	55.11	41.40	74.00	32.60	PASS	V	PK
2	11	8782.3855	-9.58	52.90	43.32	74.00	30.68	PASS	V	PK
5	12	13730.7154	-1.73	51.75	50.02	74.00	23.98	PASS	V	PK
_	1									

	Mode	:	80	)2.11 g Tran	smitting		Channe	el:	2412MH	z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1395.6396	1.38	41.86	43.24	74.00	30.76	PASS	Н	PK
	2	1994.6995	4.52	44.13	48.65	74.00	25.35	PASS	Н	PK
12	3	4320.0880	-17.19	56.73	39.54	74.00	34.46	PASS	Н	PK
$\mathbf{G}$	4	6315.2210	-12.91	54.12	41.21	74.00	32.79	PASS	Н	PK
~	5	9147.4098	-8.31	52.64	44.33	74.00	29.67	PASS	Н	PK
	6	14332.7555	0.10	50.25	50.35	74.00	23.65	PASS	Н	PK
	7	1434.4434	1.42	41.52	42.94	74.00	31.06	PASS	V	PK
	8	2127.9128	4.58	43.08	47.66	74.00	26.34	PASS	V	PK
	9	4250.0833	-17.62	57.16	39.54	74.00	34.46	PASS	V	PK
	10	5314.1543	-14.77	58.57	43.80	74.00	30.20	PASS	V	PK
	11	9193.4129	-7.93	54.22	46.29	74.00	27.71	PASS	V	PK
10	12	13736.7158	-1.72	51.70	49.98	74.00	24.02	PASS	V	PK
6	)		$(\mathbf{c})$		67)		67			<u>(`)</u>















## Page 26 of 54

Mc	de:		802.11 g Tran	smitting		Channe	el:	2437MHz	
N	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1440.6441	1.42	41.62	43.04	74.00	30.96	PASS	н	PK
2	1835.8836	3.55	42.26	45.81	74.00	28.19	PASS	Н	PK
3	3990.0660	-18.91	59.73	40.82	74.00	33.18	PASS	Н	PK
4	6369.2246	-12.88	54.17	41.29	74.00	32.71	PASS	Н	PK
5	9264.4176	-7.93	52.83	44.90	74.00	29.10	PASS	н	PK
6	12385.6257	-4.84	53.57	48.73	74.00	25.27	PASS	Н	PK
7	1398.8399	1.39	41.45	42.84	74.00	31.16	PASS	V	PK
8	1990.6991	4.50	43.70	48.20	74.00	25.80	PASS	V	PK
9	4658.1105	-16.63	59.48	42.85	74.00	31.15	PASS	V	PK
10	7071.2714	-11.65	53.58	41.93	74.00	32.07	PASS	V	PK
11	10330.4887	-6.41	51.62	45.21	74.00	28.79	PASS	V	PK
12	14376.7585	0.83	49.33	50.16	74.00	23.84	PASS	V	PK
1	· ·								

Mode	e:		802.11 g Tran	smitting		Chann	el:	2462MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1392.6393	1.37	41.59	42.96	74.00	31.04	PASS	Н	PK
2	2000.3000	4.55	43.20	47.75	74.00	26.25	PASS	Н	PK
3	4195.0797	-18.03	58.37	40.34	74.00	33.66	PASS	н	PK
4	6860.2574	-12.06	53.31	41.25	74.00	32.75	PASS	н	PK
5	9258.4172	-7.92	52.96	45.04	74.00	28.96	PASS	н	PK
6	13717.7145	-1.75	52.12	50.37	74.00	23.63	PASS	Н	PK
7	1424.0424	1.41	42.08	43.49	74.00	30.51	PASS	V	PK
8	1998.0998	4.54	43.17	47.71	74.00	26.29	PASS	V	PK
9	3326.0217	-19.90	59.87	39.97	74.00	34.03	PASS	V	PK
10	5314.1543	-14.77	57.89	43.12	74.00	30.88	PASS	V	PK
11	9188.4126	-7.97	52.77	44.80	74.00	29.20	PASS	V	PK
12	13138.6759	-3.46	52.24	48.78	74.00	25.22	PASS	V	PK
-		102	-	23		10			10







Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com







## Page 27 of 54

	Mode	:		802.11 n(HT2	0) Transmitti	ing	Channe	el:	2412MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1397.8398	1.38	41.46	42.84	74.00	31.16	PASS	Н	PK
2	2	2137.5138	4.47	41.91	46.38	74.00	27.62	PASS	Н	PK
3	3	3331.0221	-19.92	59.52	39.60	74.00	34.40	PASS	Н	PK
	4	5014.1343	-15.80	55.94	40.14	74.00	33.86	PASS	Н	PK
	5	7687.3125	-11.06	55.35	44.29	74.00	29.71	PASS	Н	PK
	6	11866.5911	-5.92	54.60	48.68	74.00	25.32	PASS	Н	PK
	7	1310.0310	1.09	42.08	43.17	74.00	30.83	PASS	V	PK
	8	1995.8996	4.53	43.48	48.01	74.00	25.99	PASS	V	PK
	9	3716.0477	-19.81	58.63	38.82	74.00	35.18	PASS	V	PK
	10	6380.2253	-12.87	55.41	42.54	74.00	31.46	PASS	V	PK
	11	9215.4144	-7.89	52.93	45.04	74.00	28.96	PASS	V	PK
5	12	13121.6748	-3.56	52.20	48.64	74.00	25.36	PASS	V	PK

Mode	):		802.11 n(HT2	0) Transmitti	ing	Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1394.6395	1.37	41.72	43.09	74.00	30.91	PASS	н	PK
2	1992.6993	4.51	43.71	48.22	74.00	25.78	PASS	Н	PK
3	3997.0665	-18.90	58.78	39.88	74.00	34.12	PASS	н	PK
4	5754.1836	-13.73	55.06	41.33	74.00	32.67	PASS	Н	PK
5	9271.4181	-7.93	53.63	45.70	74.00	28.30	PASS	н	PK
6	13680.7120	-1.74	52.53	50.79	74.00	23.21	PASS	Н	PK
7	1460.6461	1.44	41.86	43.30	74.00	30.70	PASS	V	PK
8	1997.6998	4.54	41.08	45.62	74.00	28.38	PASS	V	PK
9	3692.0461	-19.96	58.21	38.25	74.00	35.75	PASS	V	PK
10	5836.1891	-13.58	54.90	41.32	74.00	32.68	PASS	V	PK
11	8509.3673	-10.53	55.88	45.35	74.00	28.65	PASS	V	PK
12	13757.7172	-1.69	52.22	50.53	74.00	23.47	PASS	V	PK
		1	· ·		5				











Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com









## Page 28 of 54

	Mode	:		802.11 n(l	HT20)	Transmitti	ng	Channe	el:	2462MHz	
	NO	Freq. [MHz]	Factor [dB]	r Readir [dBµ∖	<b>U</b>	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1543.2543	1.82	41.44	ŀ	43.26	74.00	30.74	PASS	Н	PK
2	2	1997.6998	4.54	42.66	;	47.20	74.00	26.80	PASS	Н	PK
3	3	3323.0215	-19.89	9 59.58	;	39.69	74.00	34.31	PASS	Н	PK
	4	4927.1285	-16.10	) 56.79	)	40.69	74.00	33.31	PASS	Н	PK
Γ	5	7732.3155	-11.15	5 53.80	)	42.65	74.00	31.35	PASS	Н	PK
	6	12359.6240	-5.11	53.65	5	48.54	74.00	25.46	PASS	Н	PK
	7	1596.4596	2.26	44.33	6	46.59	74.00	27.41	PASS	V	PK
Γ	8	1999.5000	4.55	42.23	;	46.78	74.00	27.22	PASS	V	PK
	9	3323.0215	-19.89	61.89	)	42.00	74.00	32.00	PASS	V	PK
	10	4846.1231	-16.22	2 56.26	;	40.04	74.00	33.96	PASS	V	PK
0	11	7848.3232	-11.15	5 53.76	;	42.61	74.00	31.39	PASS	V	PK
	12	11957.5972	-5.50	53.70	)	48.20	74.00	25.80	PASS	V	PK
2	1			/					0		

#### 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 + Factor

Factor=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.





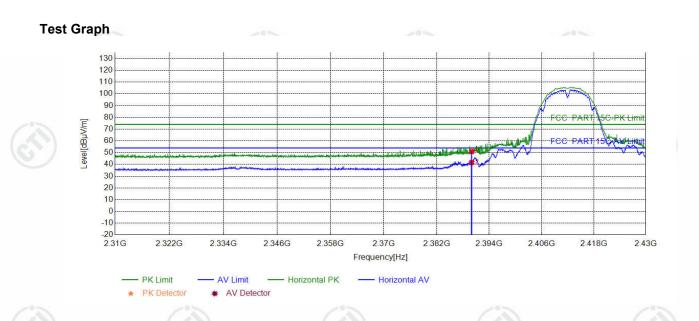




**Restricted bands:** 

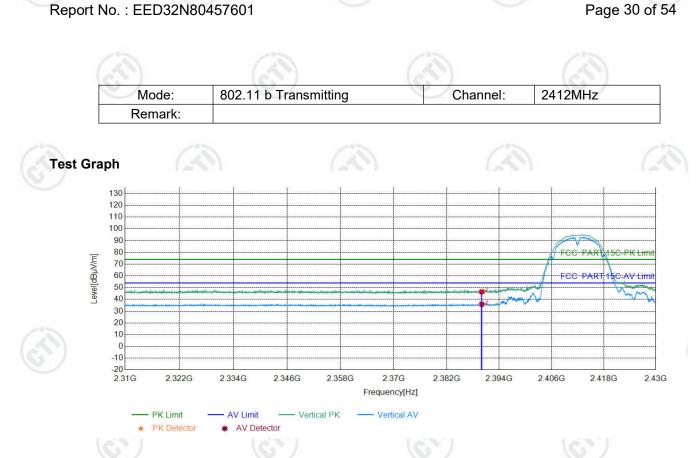
#### Test plot as follows:

		13	
Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:		e	

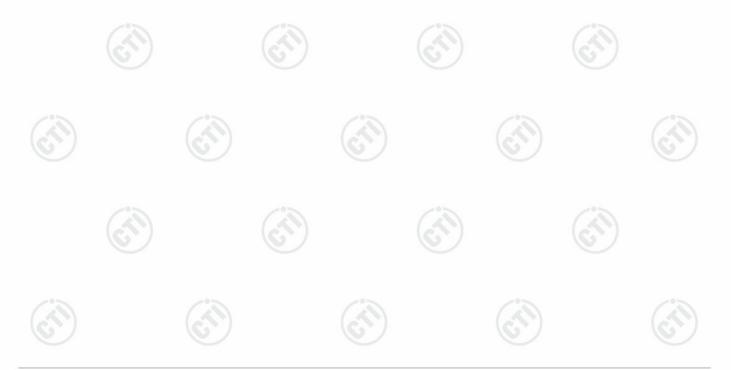


cted List								
Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2390.0000	5.77	45.17	50.94	74.00	23.06	PASS	Horizontal	PK
2390.0000	5.77	35.79	41.56	54.00	12.44	PASS	Horizontal	AV
	Freq. [MHz] 2390.0000	Freq. [MHz]         Factor [dB]           2390.0000         5.77	Freq. [MHz]         Factor [dB]         Reading [dBμV]           2390.0000         5.77         45.17	Freq. [MHz]         Factor [dB]         Reading [dBμV]         Level [dBμV/m]           2390.0000         5.77         45.17         50.94	Freq. [MHz]         Factor [dB]         Reading [dBμV]         Level [dBμV/m]         Limit [dBμV/m]           2390.0000         5.77         45.17         50.94         74.00	Freq. [MHz]         Factor [dB]         Reading [dBμV]         Level [dBμV/m]         Limit [dBμV/m]         Margin [dB]           2390.0000         5.77         45.17         50.94         74.00         23.06	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dBµV/m]Result2390.00005.7745.1750.9474.0023.06PASS	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]ResultPolarity2390.00005.7745.1750.9474.0023.06PASSHorizontal





	Suspe	cted List								
C	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2390.0000	5.77	40.72	46.49	74.00	27.51	PASS	Vertical	PK
-	2	2390.0000	5.77	30.06	35.83	54.00	18.17	PASS	Vertical	AV

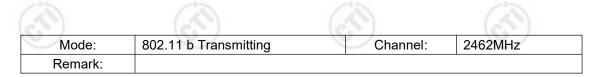


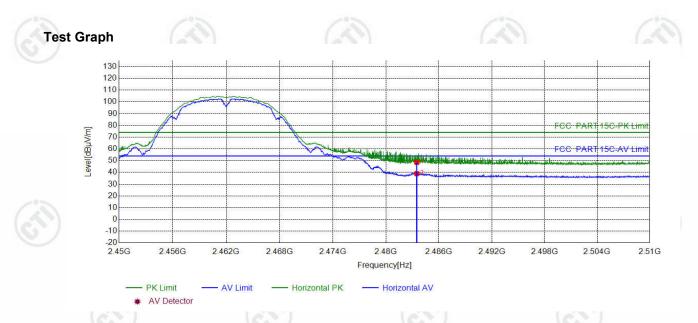
CTI华测检测



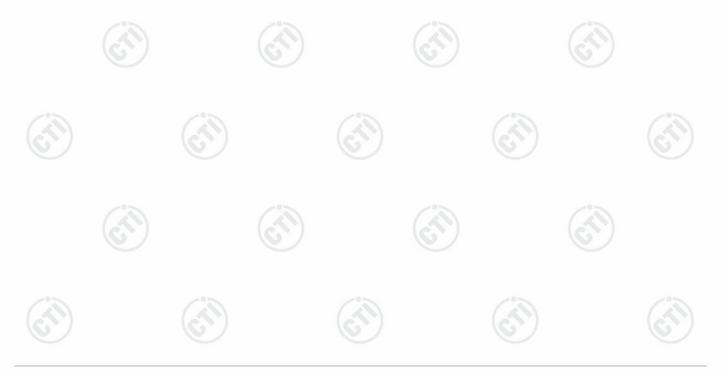


Page 31 of 54



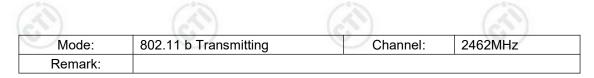


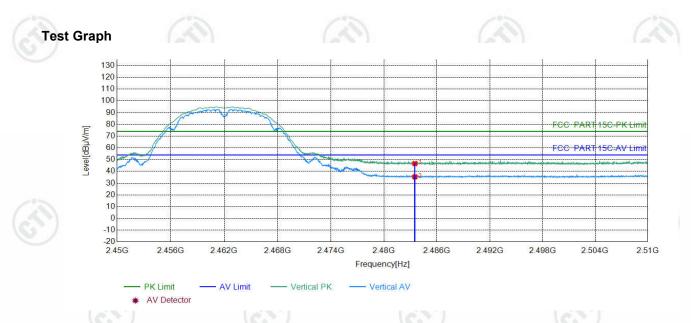
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2483.5000	6.57	41.99	48.56	74.00	25.44	PASS	Horizontal	PK
1	2	2483.5000	6.57	32.36	38.93	54.00	15.07	PASS	Horizontal	AV







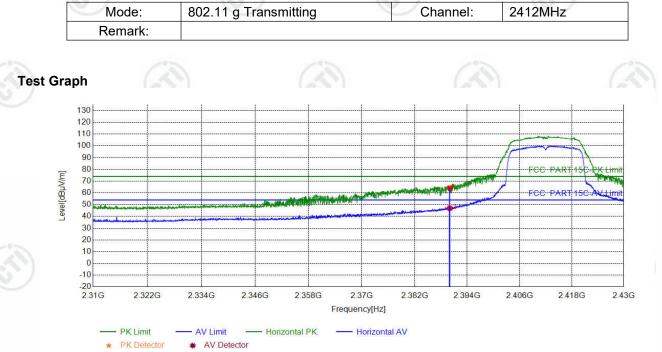




	Suspected List												
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
G	1	2483.5000	6.57	40.11	46.68	74.00	27.32	PASS	Vertical	PK			
~	2	2483.5000	6.57	28.78	35.35	54.00	18.65	PASS	Vertical	AV			





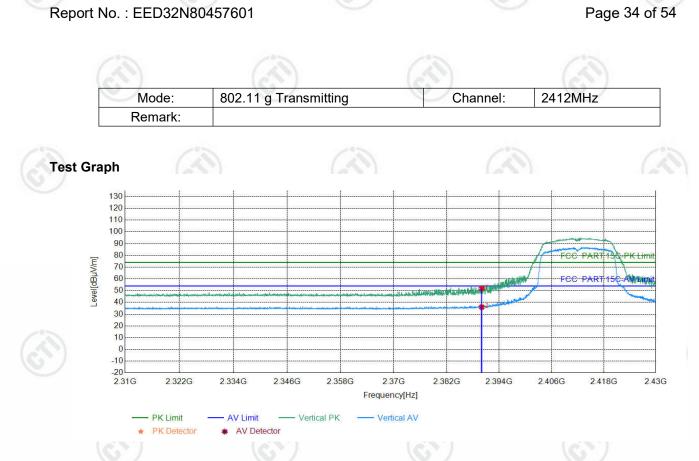


	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2390.0000	5.77	58.42	64.19	74.00	9.81	PASS	Horizontal	PK
~	2	2390.0000	5.77	41.20	46.97	54.00	7.03	PASS	Horizontal	AV



om Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com

Page 33 of 54



CTI华测检测

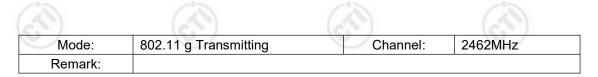
Suspe	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	46.04	51.81	74.00	22.19	PASS	Vertical	PK
2	2390.0000	5.77	30.23	36.00	54.00	18.00	PASS	Vertical	AV

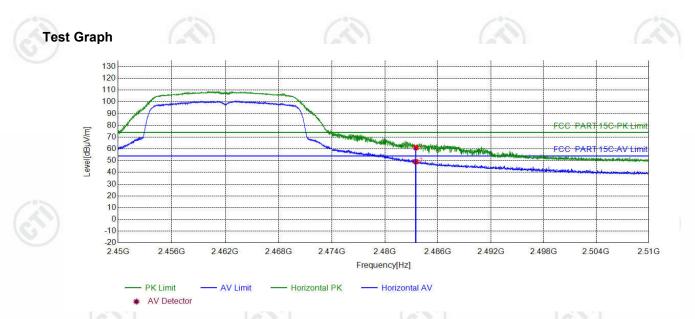




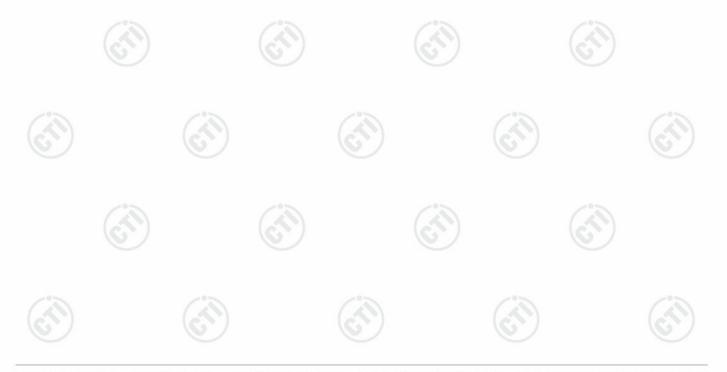


Page 35 of 54

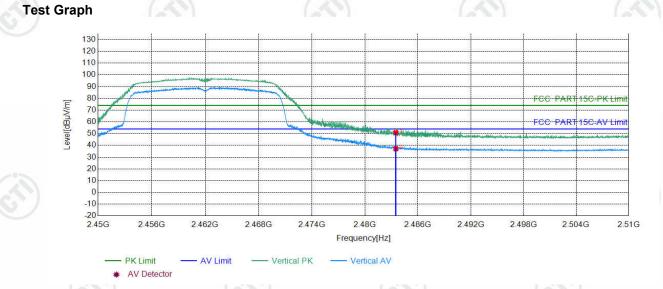




	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2483.5000	6.57	54.58	61.15	74.00	12.85	PASS	Horizontal	PK
-	2	2483.5000	6.57	42.56	49.13	54.00	4.87	PASS	Horizontal	AV



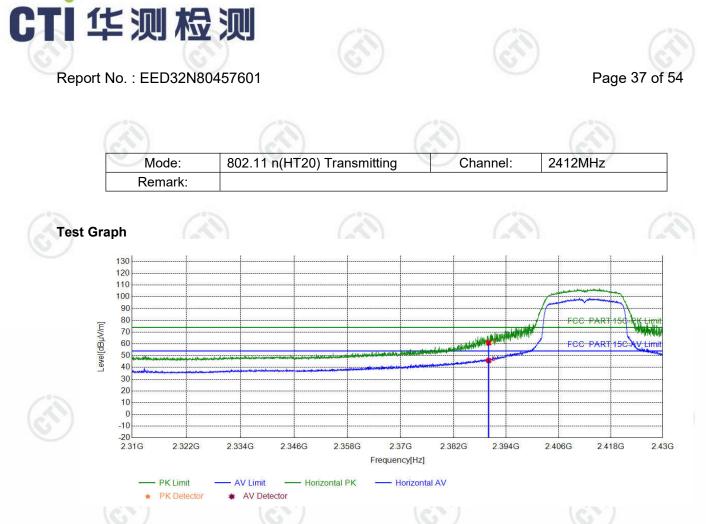




	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2483.5000	6.57	44.30	50.87	74.00	23.13	PASS	Vertical	PK
	2	2483.5000	6.57	30.63	37.20	54.00	16.80	PASS	Vertical	AV



Page 36 of 54



	Suspected List												
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
G	1	2390.0000	5.77	55.12	60.89	74.00	13.11	PASS	Horizontal	PK			
-	2	2390.0000	5.77	40.08	45.85	54.00	8.15	PASS	Horizontal	AV			





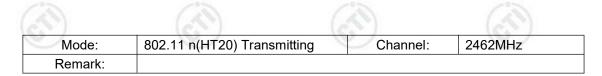
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2390.0000	5.77	52.36	58.13	74.00	15.87	PASS	Vertical	PK
-	2	2390.0000	5.77	32.99	38.76	54.00	15.24	PASS	Vertical	AV

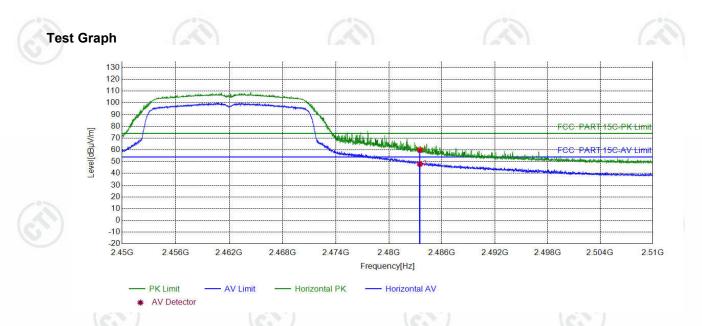




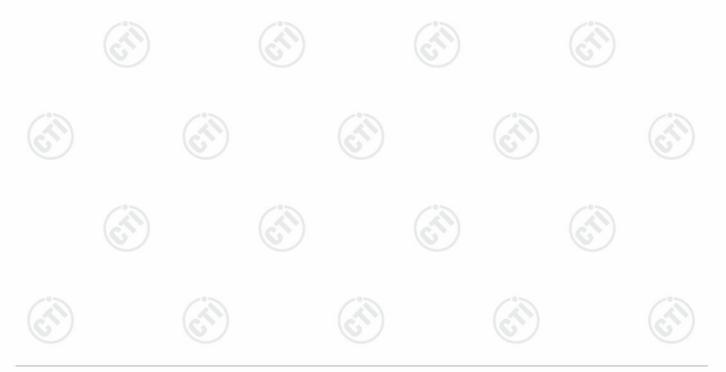


Page 39 of 54





	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2483.5000	6.57	53.31	59.88	74.00	14.12	PASS	Horizontal	PK
-	2	2483.5000	6.57	41.39	47.96	54.00	6.04	PASS	Horizontal	AV





	Suspe	cted List								
C	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
G	1	2483.5000	6.57	41.35	47.92	74.00	26.08	PASS	Vertical	PK
-	2	2483.5000	6.57	30.95	37.52	54.00	16.48	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





## 8 Appendix A

Refer to Appendix: 2.4G WIFI of EED32N80457601.



Page 41 of 54