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## **TEST REPORT**

**Product** Photo Printer Trade mark rock space **DHP511** Model/Type reference

**Serial Number** N/A

**Report Number** EED32O81359003

FCC ID 2AUA9-RQZY014

Oct. 19, 2022 Date of Issue

**Test Standards** 47 CFR Part 15 Subpart C

Test result **PASS** 

#### Prepared for:

Shenzhen Renging Excellent Technology Co., Ltd. 104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China

Prepared by:

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Reviewed by:

Date:

Tom Chen

Oct. 19, 2022

Aaron Ma

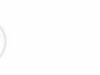
Lavon M

Check No.: 5407310822



pproved by











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3 Version

Version No.	Date	(6)	Description	9)
00	Oct. 19, 2022		Original	
	**		0	
(	(5)	(35)	(675)	(0,1)











































































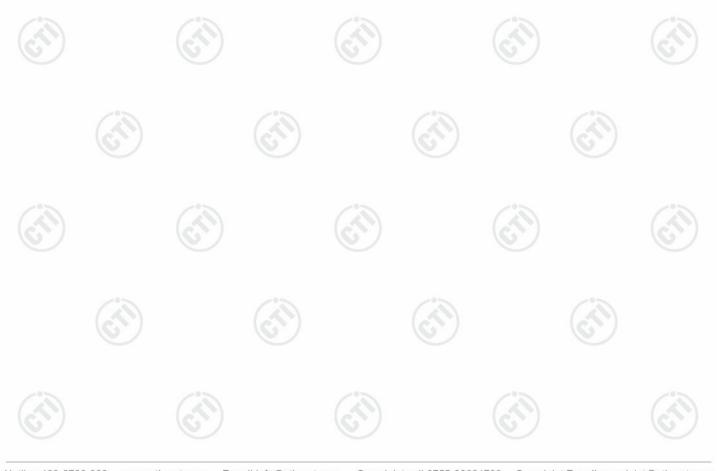
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### **4 Test Summary**

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

#### Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







#### **General Information** 5

### 5.1 Client Information

Applicant:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address of Applicant:	104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address of Manufacturer:	104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	Dongguan Kaifa Technology Co., Ltd
Address of Factory:	Kaifa Park of CEC Industry Base, No.2 Junma road, Chigang Community, Humen town, Dongguan City, Guangdong Province, China

### 5.2 General Description of EUT

Product Name:	Photo Printer	
Model No.(EUT):	DHP511	
Trade mark:	rock space	
Product Type:	☐ Mobile ☐ P	ortable 🗵 Fix Location
Operation Frequency:		HT20): 2412MHz to 2462MHz 40): 2422MHz to 2452MHz
Modulation Type:	IEEE for 802.11g:0	DSSS(CCK,DQPSK,DBPSK) DFDM(64QAM, 16QAM, QPSK, BPSK) HT20/HT40): OFDM (64QAM, 16QAM,QPSK,BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT4	EEE 802.11n HT20: 11 Channels I0: 7 Channels
Channel Separation:	5MHz	
Antenna Type:	PCB Antenna	
Antenna Gain:	-7.01dBi	
Function	⊠ SISO □ 2x2 MI	IMO □3x3 MIMO □4x4MIMO
Power Supply:	Adapter	Model:DSA-38PFE-24FUS 240160 Input:100-240V~50/60Hz 1.0A Output:24V1.6A 38.4W
Test Voltage:	AC 120V	
Sample Received Date:	Aug. 31, 2022	`a ('a ('a
Sample tested Date:	Aug. 31, 2022 to S	ep. 15, 2022















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100		100		193		197	
Operation	Frequency ea	ch of channe	el (802.11b/g/n	HT20)	•)	(2)	)
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(0)
Operation	Frequency ea	ch of channe	el (802.11n HT	40)			
Channel	Frequ	ency	Channel	Frequenc	cy Char	nnel F	requency
3	2422	MHz	6	2437MH	z 9	120	2452MHz
4	2427	MHz	7	2442MH	Z		
5	2432	MHz	8	2447MH	z		

#### Note:

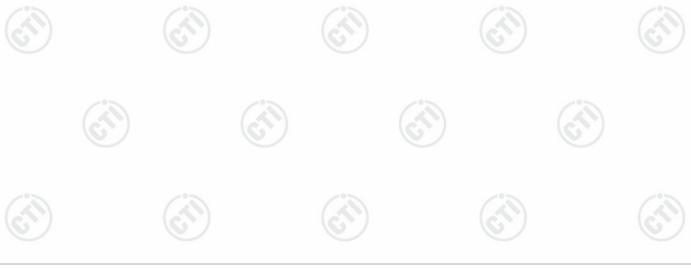
In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

#### 802.11b/g/n (HT20)

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

### 802.11n (HT40)

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





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### 5.3 Test Configuration

<b>EUT Test Software Settings:</b>		
Software:	dbgmon	
EUT Power Grade:	Default	
Use test software to set the lower	est frequency, the middle frequency and the highest frequency keep	-5%

#### transmitting of the EUT.

#### **Test Mode:**

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

# Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

-0

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 13.5Mbps for 802.11n(HT40)...

#### 5.4 Test Environment

Operating Environment						
Radiated Spurious Emis	ssions:					
Temperature:	22~25.0 °C					
Humidity:	50~56 % RH					
Atmospheric Pressure:	1010mbar	200				-54
Conducted Emissions:						
Temperature:	22~25.0 °C	(0,)		(0,)		(0,)
Humidity:	50~56 % RH					
Atmospheric Pressure:	1010mbar					
RF Conducted:						
Temperature:	22~25.0 °C		(0,72)		(6.77)	
Humidity:	50~56 % RH					
Atmospheric Pressure:	1010mbar					





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### 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
		(0.)		6

#### 5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

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

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

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

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

No.	Item	Measurement Uncertainty
.1	Radio Frequency	7.9 x 10 <sup>-8</sup>
	DE power conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
		3.3dB (9kHz-30MHz)
3	Dadiated Caurious 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%





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## 6 Equipment List

RF test system						
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022	
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022	
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022	
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022	
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022	
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	120765	12-22-2021	12-21-2022	
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518			

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	/		(51)		
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023		
Barometer	changchun	DYM3	1188				







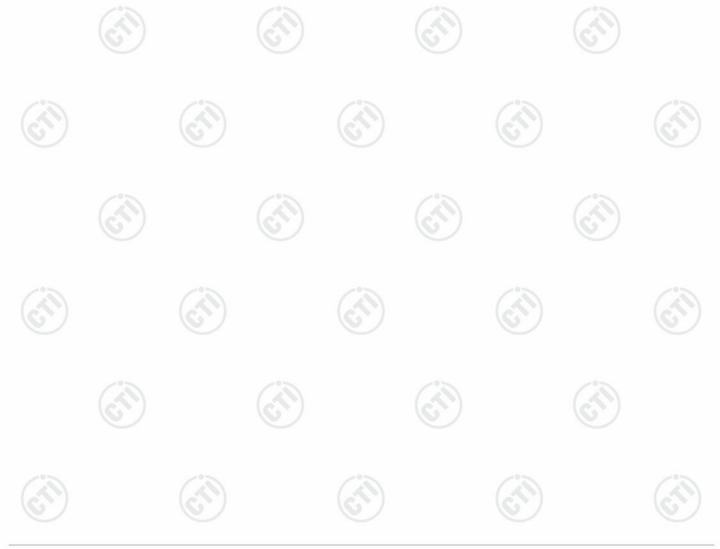






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3M Semi-an	echoic Chamber (2)-	- Radiated distu	ırbance Test	
Manufacturer	Model	Serial No.	Cal. Date	Due Date
TDK	SAC-3		05-22-2022	05-21-2025
R&S	ESCI7	100938-003	10-14-2021	10-13-2022
schwarzbeck	VULB 9163	9163-618	05-22-2022	05-21-2023
maturo	NCD/070/10711112	(3)	/3	
ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024
Schwarzbeck	FMZB 1519B	1519B-076	04-17-2021	04-16-2024
Agilent	8449B	3008A02425	06-20-2022	06-19-2023
	Manufacturer  TDK  R&S  schwarzbeck  maturo  ETS-LINGREN  Schwarzbeck	Manufacturer Model  TDK SAC-3  R&S ESCI7  schwarzbeck VULB 9163  maturo NCD/070/10711112  ETS-LINGREN BBHA 9120D  Schwarzbeck FMZB 1519B	Manufacturer         Model         Serial No.           TDK         SAC-3            R&S         ESCI7         100938-003           schwarzbeck         VULB 9163         9163-618           maturo         NCD/070/10711112            ETS-LINGREN         BBHA 9120D         9120D-1869           Schwarzbeck         FMZB 1519B         1519B-076	TDK SAC-3 05-22-2022  R&S ESCI7 100938-003 10-14-2021  schwarzbeck VULB 9163 9163-618 05-22-2022  maturo NCD/070/10711112  ETS-LINGREN BBHA 9120D 9120D-1869 04-15-2021  Schwarzbeck FMZB 1519B 1519B-076 04-17-2021





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3M full-anechoic Chamber							
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
RSE Automatic test software	JS Tonscend	JS36-RSE	10166				
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023		
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023		
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023		
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		
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023		
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022		
Communication test set R&S		CMW500	102898	12-24-2021	12-23-2022		
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023		
Fully Anechoic Chamber	TDK	FAC-3	(0,	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>	7(1)		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	<u></u>	<u> </u>		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001				
Cable line	Times	EMC104-NMNM-1000	SN160710	- (3	<i></i>		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	- 6	/		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001				
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	(i)	7		
Cable line	Times	HF160-KMKM-3.00M	393493-0001	<u> </u>	(0)		













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### 7 Test results and Measurement Data

### 7.1 Antenna Requirement

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

15.203 requirement:

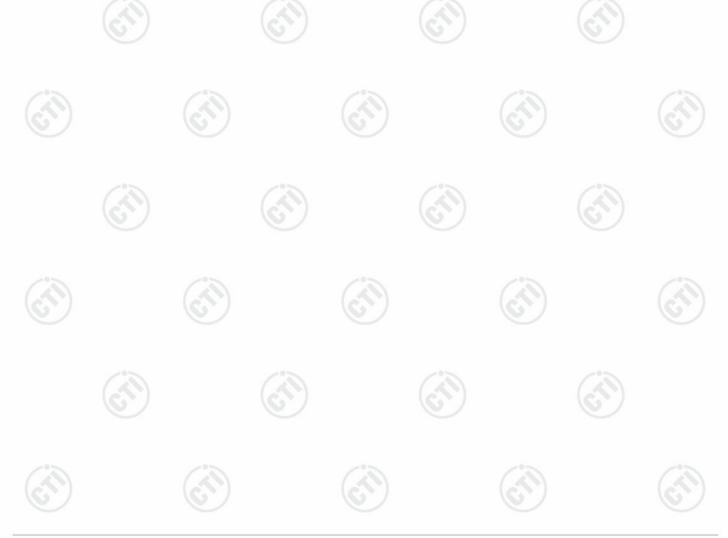
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 -7.01dBi.





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## 7.2 AC Power Line Conducted Emissions

		C. 1	16.7	
Test Requirement:	47 CFR Part 15C Section 15.2	207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S			
Limit:	Frequency range (MHz)	BuV)	10	
	1 requericy rarige (IVII IZ)	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.	/°N	_
Test Setup:	Shielding Room		Test Receiver	
	AC Mains  LISN1	Ground Reference Plane	25	9
Test Procedure:	<ol> <li>The mains terminal disturb room.</li> <li>The EUT was connected Impedance Stabilization Not impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the rational street of the same way a multiple socket outlet strip single LISN provided the rational street on the horizontal ground reference plane. All placed on the horizontal ground reference reference plane. The LISN unit under test and bond mounted on top of the ground the closest points of the Land associated equipment.</li> <li>In order to find the maximuland all of the interface calcands.</li> </ol>	to AC power source etwork) which provides cables of all other is 2, which was bonde as the LISN 1 for the was used to connect reating of the LISN was need upon a non-metal and for floor-standing around reference plane. In a vertical ground reference plane was bonded to a ground refund reference plane. The LISN 1 and the EUT. As was at least 0.8 m frorum emission, the relativoles must be changed as	through a LISN 1 is a 50Ω/50μH + 5Ω units of the EUT d to the ground referent being measure nultiple power cable to texceeded. His table 0.8m above an above rangement, the EUT erence plane. The result of the horizontal grown the boundary from the boundary from the boundary from the boundary from the LISN 2. The positions of equipment in the LISN 2.	(Line linear were rence ed. A s to a re the T was ear of . The round of the LISNs tween e EUT
Test Mode:	All modes were tested, only th		rded in the report	
Test Results:	Pass		i ada ili dio ropoit.	
root roodito.	. 400			









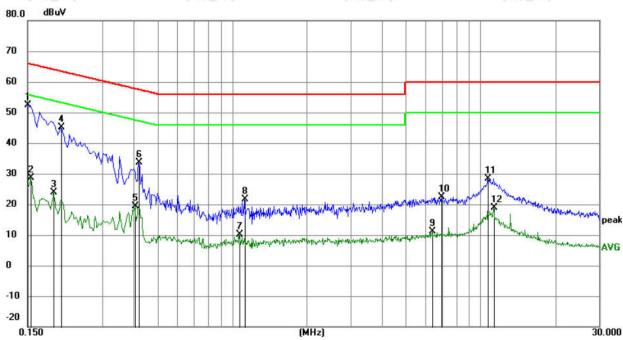






#### **Measurement Data**

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	42.62	9.87	52.49	66.00	-13.51	QP	
2		0.1545	18.74	9.87	28.61	55.75	-27.14	AVG	-
3		0.1905	14.01	9.87	23.88	54.01	-30.13	AVG	
4		0.2040	35.19	9.88	45.07	63.45	-18.38	QP	
5		0.4065	9.38	9.97	19.35	47.72	-28.37	AVG	-
6		0.4200	23.71	9.97	33.68	57.45	-23.77	QP	
7		1.0680	0.40	9.83	10.23	46.00	-35.77	AVG	
8		1.1174	11.85	9.83	21.68	56.00	-34.32	QP	
9		6.4095	1.23	9.79	11.02	50.00	-38.98	AVG	-
10		6.9585	12.52	9.79	22.31	60.00	-37.69	QP	
11		10.6935	18.56	9.80	28.36	60.00	-31.64	QP	
12		11.2875	9.17	9.82	18.99	50.00	-31.01	AVG	

- 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.







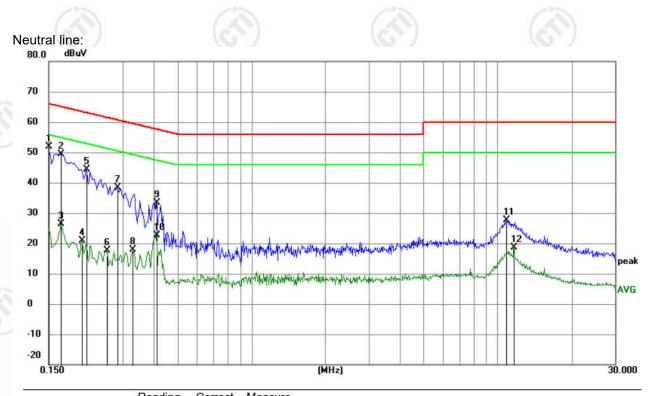












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	41.92	9.87	51.79	66.00	-14.21	QP	
2		0.1680	39.57	9.87	49.44	65.06	-15.62	QP	
3		0.1680	16.45	9.87	26.32	55.06	-28.74	AVG	
4		0.2040	11.06	9.88	20.94	53.45	-32.51	AVG	
5		0.2130	34.44	9.90	44.34	63.09	-18.75	QP	
6		0.2580	7.54	9.99	17.53	51.50	-33.97	AVG	
7		0.2850	28.41	10.04	38.45	60.67	-22.22	QP	
8		0.3300	7.96	10.04	18.00	49.45	-31.45	AVG	
9		0.4110	23.33	9.97	33.30	57.63	-24.33	QP	
10		0.4110	12.74	9.97	22.71	47.63	-24.92	AVG	
11		10.8015	17.85	9.80	27.65	60.00	-32.35	QP	
12		11.6295	8.76	9.83	18.59	50.00	-31.41	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					
Test Setup:	Eil)					
	Control Computer  Computer  Computer  Power ports)  Power ports  Table  RF test  System  Instrument  Instrument					
Test Procedure:	1. PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.  2. Method AVGPM-G Average power measurement Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.					
Limit:	The Maximum Conducted Output Power is 30dBm, however if the antenna gain is >6 dBi, the limit is reduced by the MIMO Directional Antenna Gain -6 dBi.  In this case:  MIMO Directional Antenna gain = 7.09 dBi.					
Test Mode:	Refer to clause 5.3					
Test Results:	Refer to Appendix 2.4G WIFI					



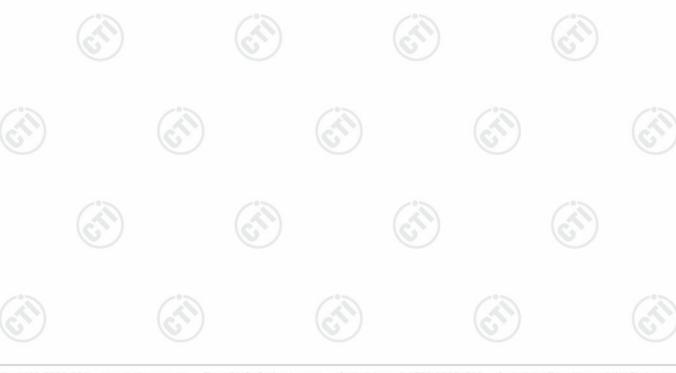
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





## 7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	(cří)
	Control Control Control Power Supply  Power Supply  Table  RF test  System  Instrument  Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW ≥[3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <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 2.4G WIFI







## 7.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e	e)			
Test Method:	ANSI C63.10 2013				
Test Setup:		CHI CHI			
	Control Control Control Control Actenna poot(s) Actenna poot(s) Attenuator  Temperature Cabrier  Table	RF test System Instrument			
	Remark: Offset=Cable loss+ attenu	uation 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:		lensity is 8dBm/3kHz, however if the reduced by the MIMO Directional Antennal			
Test Mode:	Refer to clause 5.3				
Test Results:	Refer to Appendix 2.4G WIFI				

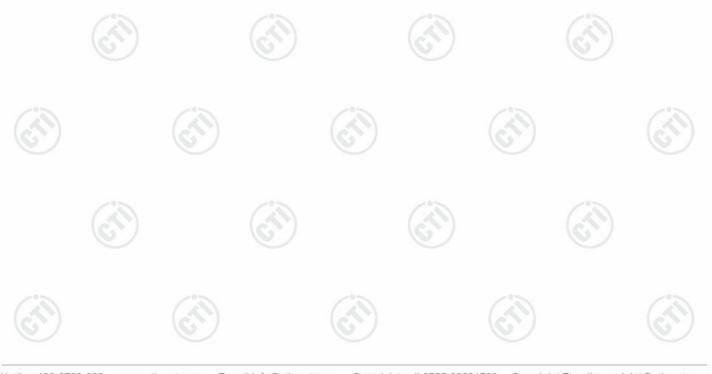






## 7.6 Band Edge Measurements and Conducted Spurious Emission

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

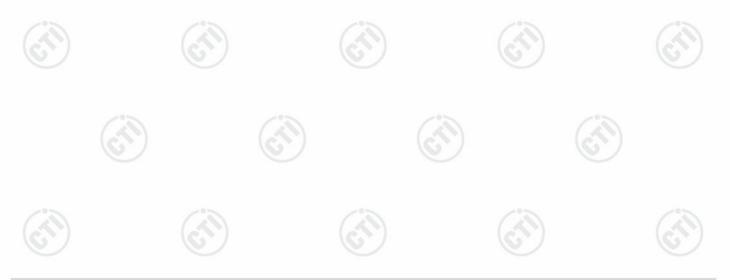






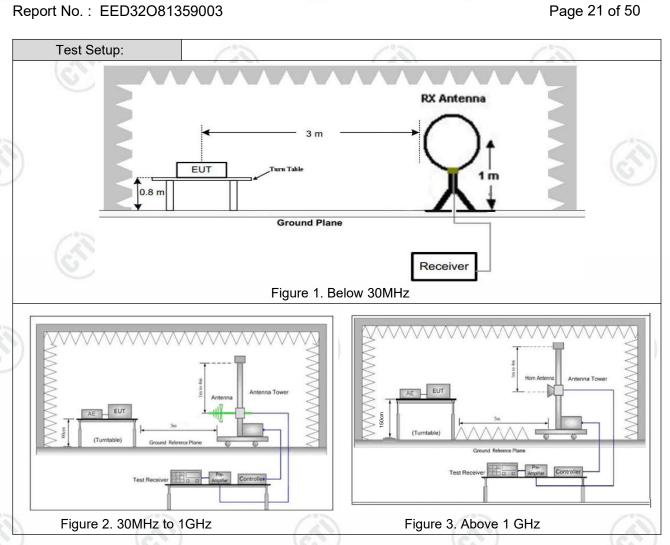
## 7.7 Radiated Spurious Emission & Restricted bands

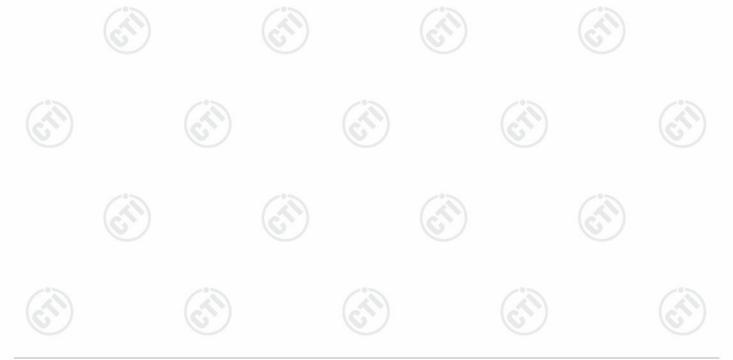
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	-0.00
Receiver Setup:	Frequency	1	Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak
	Above 1GHz		Peak	1MHz	3MHz	Peak
			Peak	1MHz	10kHz	Average
Limit:	l Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/*>	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30
	1.705MHz-30MHz		30	-		30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz		150	43.5	Quasi-peak	3
	216MHz-960MHz	9	200	46.0	Quasi-peak	3
	960MHz-1GHz	/	500	54.0	Quasi-peak	3
	Above 1GHz		500	54.0	Average	3
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level rad	20d quip	IB above the i	maximum est. This p	permitted ave	erage emission













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Test Procedure:	<ul> <li>a. 1) Below 1G: The EUT was placed on the top of a rotating table meters above the ground at a 3 meter semi-anechoic camber. The twas rotated 360 degrees to determine the position of the high radiation.</li> <li>2) Above 1G: The EUT was placed on the top of a rotating table meters above the ground at a 3 meter semi-anechoic camber. The twas rotated 360 degrees to determine the position of the high radiation.</li> <li>Note: For the radiated emission test above 1GHz:</li> </ul>
	Place the measurement antenna away from each area of the I determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the sor of emissions at each frequency of significant emissions, with polarizar oriented for maximum response. The measurement antenna may be to be higher or lower than the EUT, depending on the radiation patter the emission and staying aimed at the emission source for receiving maximum signal. The final measurement antenna elevation shall be which maximizes the emissions. The measurement antenna elevation maximum emissions shall be restricted to a range of heights of 1 m to 4 m above the ground or reference ground plane.  b. The EUT was set 3 meters away from the interference-receivantenna, which was mounted on the top of a variable-height antentation.
	tower.  c. The antenna height is varied from one meter to four meters above ground to determine the maximum value of the field strength. It horizontal and vertical polarizations of the antenna are set to make measurement.
	d. For each suspected emission, the EUT was arranged to its worst of and then the antenna was tuned to heights from 1 meter to 4 meters the test frequency of below 30MHz, the antenna was tuned to heigh meter) and the rotatable table was turned from 0 degrees to degrees to find the maximum reading.
	<ul> <li>e. The test-receiver system was set to Peak Detect Function and Spec Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than limit specified, then testing could be stopped and the peak values of EUT would be reported. Otherwise the emissions that did not have 1 margin would be re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet.</li> </ul>
	<ul> <li>g. Test the EUT in the lowest channel (2402MHz), the middle chan (2440MHz), the Highest channel (2480MHz)</li> <li>h. The radiation measurements are performed in X, Y, Z axis position for Transmitting mode, and found the X axis positioning which it is worst case.</li> </ul>
	i. Repeat above procedures until all frequencies measured was comple
Test Mode:	Refer to clause 5.3
Test Results:	Pass
10.4.	- 163 L 163 L











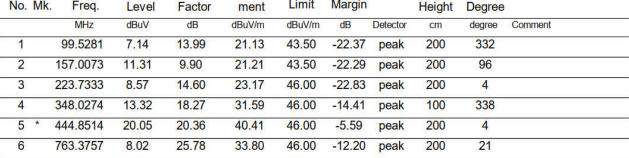




#### Radiated Spurious Emission below 1GHz:

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

#### **Test Graph** 72.0 dBuV/m 62 52 42 32 22 12 2 -8 -18 -28 -38 -48 30.000 60 (MHz) 500 1000.0 Reading Correct Measure-Antenna **Table** No. Mk. Freq. Limit Margin Level Factor ment Height Degree MHz dBuV dB dBuV/m dBuV/m Detector cm degree Comment 99.5281 7.14 13.99 21.13 43.50 -22.37 200 332 1 peak

















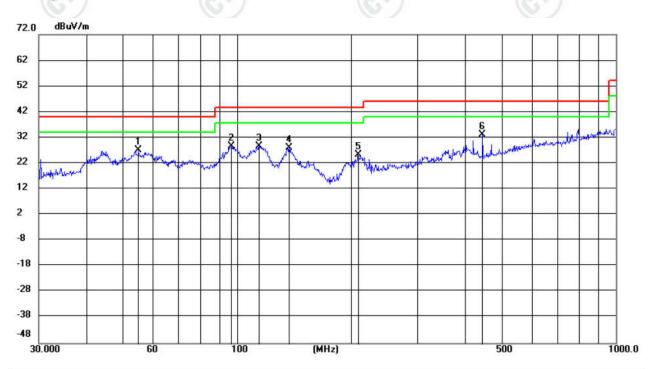












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		55.0274	13.27	13.92	27.19	40.00	-12.81	peak	100	4	
2		96.7749	15.05	13.60	28.65	43.50	-14.85	peak	100	235	
3		114.5146	16.62	12.01	28.63	43.50	-14.87	peak	100	288	
4		137.4202	18.79	9.26	28.05	43.50	-15.45	peak	100	299	
5		208.5803	11.23	14.08	25.31	43.50	-18.19	peak	100	288	
6	*	444.8514	12.86	20.36	33.22	46.00	-12.78	peak	100	4	





















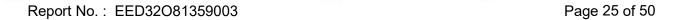












### Radiated Spurious Emission above 1GHz:

Mode	<b>:</b> :	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
1	1352.2352	1.23	40.40	41.63	74.00	32.37	PASS	Н	PK
2	2029.9030	4.65	39.15	43.80	74.00	30.20	PASS	Н	PK
3	4824.1216	-16.22	65.02	48.80	74.00	25.20	PASS	Н	PK
4	7417.2945	-11.44	53.32	41.88	74.00	32.12	PASS	Н	PK
5	10829.5220	-6.27	50.56	44.29	74.00	29.71	PASS	Н	PK
6	13840.7227	-1.77	49.17	47.40	74.00	26.60	PASS	Н	PK
7	1311.8312	1.10	40.89	41.99	74.00	32.01	PASS	V	PK
8	1877.8878	3.86	39.11	42.97	74.00	31.03	PASS	V	PK
9	4824.1216	-16.22	59.42	43.20	74.00	30.80	PASS	V	PK
10	5760.1840	-13.71	56.09	42.38	74.00	31.62	PASS	V	PK
11	7233.2822	-11.79	53.02	41.23	74.00	32.77	PASS	V	PK
12	12441.6294	-4.75	51.05	46.30	74.00	27.70	PASS	V	PK

Mode	::		802.11 b Tran	smitting		Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1250.0250	0.93	40.77	41.70	74.00	32.30	PASS	Н	PK
2	1989.2989	4.49	39.56	44.05	74.00	29.95	PASS	Н	PK
3	4874.1249	-16.21	62.00	45.79	74.00	28.21	PASS	Н	PK
4	5273.1515	-14.72	60.37	45.65	74.00	28.35	PASS	Н	PK
5	7677.3118	-11.08	52.33	41.25	74.00	32.75	PASS	Н	PK
6	12411.6274	-4.71	52.08	47.37	74.00	26.63	PASS	Н	PK
7	1222.0222	0.86	40.87	41.73	74.00	32.27	PASS	V	PK
8	1840.8841	3.59	40.00	43.59	74.00	30.41	PASS	V	PK
9	4874.1249	-16.21	57.99	41.78	74.00	32.22	PASS	V	PK
10	5760.1840	-13.71	56.77	43.06	74.00	30.94	PASS	V	PK
11	9101.4068	-8.68	51.46	42.78	74.00	31.22	PASS	V	PK
12	13860.7240	-1.84	49.99	48.15	74.00	25.85	PASS	V	PK













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_										
	Mode	:		802.11 b Tran	nsmitting		Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1144.2144	0.83	40.85	41.68	74.00	32.32	PASS	Н	PK
	2	1987.6988	4.49	39.39	43.88	74.00	30.12	PASS	Н	PK
_	3	4924.1283	-16.11	1 58.84	42.73	74.00	31.27	PASS	Н	PK
	4	7449.2966	-11.30	52.73	41.43	74.00	32.57	PASS	Н	PK
	5	11268.5512	-6.57	51.56	44.99	74.00	29.01	PASS	Н	PK
	6	17043.9363	2.41	48.51	50.92	74.00	23.08	PASS	Н	PK
	7	1233.0233	0.89	41.13	42.02	74.00	31.98	PASS	V	PK
Ī	8	1767.2767	3.17	40.05	43.22	74.00	30.78	PASS	V	PK
	9	4924.1283	-16.11	1 59.15	43.04	74.00	30.96	PASS	V	PK
	10	5759.1839	-13.71	56.83	43.12	74.00	30.88	PASS	V	PK
9	11	7388.2926	-11.53	53.25	41.72	74.00	32.28	PASS	V	PK
	12	10999.5333	-6.16	52.52	46.36	74.00	27.64	PASS	V	PK

Mode	Mode:		802.11 g Tran	nsmitting		Channel:		2412MHz	
NO	Freq. [MHz]	Facto [dB]	D	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1298.8299	1.06	40.72	41.78	74.00	32.22	PASS	Н	PK
2	1830.0830	3.51	39.19	42.70	74.00	31.30	PASS	Н	PK
3	4826.1217	-16.22	2 55.75	39.53	74.00	34.47	PASS	Н	PK
4	7605.3070	-11.2 <sup>-</sup>	1 52.75	41.54	74.00	32.46	PASS	Н	PK
5	9194.4130	-7.93	51.87	43.94	74.00	30.06	PASS	Н	PK
6	12553.6369	-4.44	51.15	46.71	74.00	27.29	PASS	Н	PK
7	1189.8190	0.81	40.83	41.64	74.00	32.36	PASS	V	PK
8	1669.6670	2.74	40.19	42.93	74.00	31.07	PASS	V	PK
9	4423.0949	-17.03	3 54.52	37.49	74.00	36.51	PASS	V	PK
10	5760.1840	-13.7°	1 57.34	43.63	74.00	30.37	PASS	V	PK
11	8897.3932	-9.22	52.70	43.48	74.00	30.52	PASS	V	PK
12	11887.5925	-5.86	52.44	46.58	74.00	27.42	PASS	V	PK













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		20%		100		20%	225			
	Mode	:		802.11 g Tran	smitting		Channe	el:	2437MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1312.2312	1.10	40.42	41.52	74.00	32.48	PASS	Н	PK
3	2	1701.8702	2.95	40.46	43.41	74.00	30.59	PASS	Н	PK
	3	4249.0833	-17.63	55.68	38.05	74.00	35.95	PASS	Н	PK
	4	5760.1840	-13.71	55.93	42.22	74.00	31.78	PASS	Н	PK
	5	9165.4110	-8.16	51.25	43.09	74.00	30.91	PASS	Н	PK
	6	12562.6375	-4.38	52.08	47.70	74.00	26.30	PASS	Н	PK
	7	1088.4088	0.86	41.57	42.43	74.00	31.57	PASS	V	PK
	8	1654.2654	2.64	40.25	42.89	74.00	31.11	PASS	V	PK
	9	5760.1840	-13.71	56.09	42.38	74.00	31.62	PASS	V	PK
	10	9182.4122	-8.02	51.18	43.16	74.00	30.84	PASS	V	PK
1	11	12636.6424	-4.40	50.57	46.17	74.00	27.83	PASS	V	PK
6	12	16298.8866	1.72	49.70	51.42	74.00	22.58	PASS	V	PK
	4		2.707				7.707	7		

Mode	Mode:		802.11 g Tran	smitting		Channe	el:	2462MHz	
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1292.8293	1.04	40.79	41.83	74.00	32.17	PASS	Н	PK
2	1882.6883	3.90	39.36	43.26	74.00	30.74	PASS	Н	PK
3	4924.1283	-16.11	57.85	41.74	74.00	32.26	PASS	Н	PK
4	7199.2800	-11.84	53.28	41.44	74.00	32.56	PASS	Н	PK
5	9222.4148	-7.90	51.55	43.65	74.00	30.35	PASS	Н	PK
6	13358.6906	-3.07	49.65	46.58	74.00	27.42	PASS	Н	PK
7	1269.6270	0.98	41.06	42.04	74.00	31.96	PASS	V	PK
8	1932.0932	4.20	39.21	43.41	74.00	30.59	PASS	V	PK
9	4924.1283	-16.11	55.79	39.68	74.00	34.32	PASS	V	PK
10	6322.2215	-12.91	52.69	39.78	74.00	34.22	PASS	V	PK
11	10110.4740	-7.01	50.41	43.40	74.00	30.60	PASS	V	PK
12	13744.7163	-1.71	48.95	47.24	74.00	26.76	PASS	V	PK





















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	20%		20%	70%					
Mode	:		802.11 n(HT2	Channe	el:	2412MHz			
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1237.4237	0.90	40.93	41.83	74.00	32.17	PASS	Н	PK
2	1622.6623	2.44	40.49	42.93	74.00	31.07	PASS	Н	PK
3	4298.0865	-17.25	54.92	37.67	74.00	36.33	PASS	Н	PK
4	6042.2028	-13.04	53.91	40.87	74.00	33.13	PASS	Н	PK
5	9258.4172	-7.92	51.46	43.54	74.00	30.46	PASS	Н	PK
6	12543.6362	-4.52	52.24	47.72	74.00	26.28	PASS	Н	PK
7	1266.0266	0.97	40.56	41.53	74.00	32.47	PASS	V	PK
8	1992.2992	4.51	39.58	44.09	74.00	29.91	PASS	V	PK
9	4186.0791	-18.04	56.31	38.27	74.00	35.73	PASS	V	PK
10	5760.1840	-13.71	57.09	43.38	74.00	30.62	PASS	V	PK
11	9195.4130	-7.92	52.04	44.12	74.00	29.88	PASS	V	PK
12	13190.6794	-3.16	50.67	47.51	74.00	26.49	PASS	V	PK

ı	Mode	:	80	802.11 n(HT20) Transmitting			Channel:		2437MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1101.6102	0.85	41.26	42.11	74.00	31.89	PASS	Н	PK
	2	1665.0665	2.71	40.37	43.08	74.00	30.92	PASS	Н	PK
-	3	3246.0164	-20.10	58.45	38.35	74.00	35.65	PASS	Н	PK
	4	5558.1705	-14.37	53.81	39.44	74.00	34.56	PASS	Н	PK
	5	7678.3119	-11.08	53.45	42.37	74.00	31.63	PASS	Н	PK
	6	12467.6312	-4.78	52.14	47.36	74.00	26.64	PASS	Н	PK
	7	1119.2119	0.84	41.71	42.55	74.00	31.45	PASS	V	PK
	8	1996.6997	4.53	42.24	46.77	74.00	27.23	PASS	V	PK
Ī	9	4197.0798	-18.02	57.78	39.76	74.00	34.24	PASS	V	PK
	10	5760.1840	-13.71	57.36	43.65	74.00	30.35	PASS	V	PK
	11	9229.4153	-7.90	51.93	44.03	74.00	29.97	PASS	V	PK
	12	16901.9268	3.10	47.43	50.53	74.00	23.47	PASS	V	PK













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_		100		1000		20%	20%			
ı	Mode:	:	8	02.11 n(HT2	0) Transmitti	ng	Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1309.8310	1.09	41.28	42.37	74.00	31.63	PASS	Н	PK
3	2	1706.8707	2.96	40.31	43.27	74.00	30.73	PASS	Н	PK
	3	3765.0510	-19.48	57.29	37.81	74.00	36.19	PASS	Н	PK
	4	6549.2366	-12.76	53.33	40.57	74.00	33.43	PASS	Н	PK
	5	9195.4130	-7.92	51.83	43.91	74.00	30.09	PASS	Н	PK
	6	14349.7567	0.39	48.25	48.64	74.00	25.36	PASS	Н	PK
	7	1220.4220	0.85	40.91	41.76	74.00	32.24	PASS	V	PK
	8	1886.0886	3.93	39.49	43.42	74.00	30.58	PASS	V	PK
	9	3394.0263	-20.18	58.78	38.60	74.00	35.40	PASS	V	PK
	10	4190.0793	-18.04	56.32	38.28	74.00	35.72	PASS	V	PK
	11	9088.4059	-8.66	51.49	42.83	74.00	31.17	PASS	V	PK
6	12	14356.7571	0.50	47.77	48.27	74.00	25.73	PASS	V	PK

Mode	:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2422MH	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1277.2277	1.00	40.77	41.77	74.00	32.23	PASS	Н	PK
2	2000.1000	4.55	39.20	43.75	74.00	30.25	PASS	Н	PK
3	5043.1362	-15.76	54.73	38.97	74.00	35.03	PASS	Н	PK
4	7648.3099	-11.13	53.89	42.76	74.00	31.24	PASS	Н	PK
5	10355.4904	-6.36	51.20	44.84	74.00	29.16	PASS	Н	PK
6	13677.7118	-1.74	49.59	47.85	74.00	26.15	PASS	Н	PK
7	1211.6212	0.83	41.27	42.10	74.00	31.90	PASS	V	PK
8	1808.0808	3.34	39.74	43.08	74.00	30.92	PASS	V	PK
9	5760.1840	-13.71	57.35	43.64	74.00	30.36	PASS	V	PK
10	7734.3156	-11.16	52.70	41.54	74.00	32.46	PASS	V	PK
11	10386.4924	-6.30	50.48	44.18	74.00	29.82	PASS	V	PK
12	13757.7172	-1.69	50.66	48.97	74.00	25.03	PASS	V	PK













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_							[2, ]			
	Mode	:		802.11 n(HT4	0) Transmitti	Channe	el:	2437MH:	Z	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1	1193.2193	0.80	40.97	41.77	74.00	32.23	PASS	Н	PK
	2	1828.8829	3.50	39.54	43.04	74.00	30.96	PASS	Н	PK
	3	3767.0511	-19.46	56.65	37.19	74.00	36.81	PASS	Н	PK
Ī	4	5760.1840	-13.71	55.85	42.14	74.00	31.86	PASS	Н	PK
	5	7671.3114	-11.09	53.35	42.26	74.00	31.74	PASS	Н	PK
Ī	6	11977.5985	-5.38	51.79	46.41	74.00	27.59	PASS	Н	PK
	7	1222.8223	0.86	40.49	41.35	74.00	32.65	PASS	V	PK
Ī	8	1796.4796	3.27	39.92	43.19	74.00	30.81	PASS	V	PK
Ī	9	3398.0265	-20.19	59.16	38.97	74.00	35.03	PASS	V	PK
	10	5759.1839	-13.71	56.80	43.09	74.00	30.91	PASS	V	PK
9	11	7262.2842	-11.75	52.60	40.85	74.00	33.15	PASS	V	PK
9	12	9266.4178	-7.93	51.75	43.82	74.00	30.18	PASS	V	PK

Mode	:	80	)2.11 n(HT4	0) Transmitti	ng	Channe	el:	2452MH	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1257.8258	0.95	41.08	42.03	74.00	31.97	PASS	Н	PK
2	1749.6750	3.11	40.11	43.22	74.00	30.78	PASS	Н	PK
3	3734.0489	-19.69	57.35	37.66	74.00	36.34	PASS	Н	PK
4	5274.1516	-14.73	53.36	38.63	74.00	35.37	PASS	Н	PK
5	7671.3114	-11.09	52.76	41.67	74.00	32.33	PASS	Н	PK
6	11705.5804	-6.24	52.17	45.93	74.00	28.07	PASS	Н	PK
7	1076.0076	0.87	41.34	42.21	74.00	31.79	PASS	٧	PK
8	1691.8692	2.89	39.34	42.23	74.00	31.77	PASS	V	PK
9	4186.0791	-18.04	55.88	37.84	74.00	36.16	PASS	V	PK
10	5760.1840	-13.71	56.26	42.55	74.00	31.45	PASS	V	PK
11	8749.3833	-9.80	51.84	42.04	74.00	31.96	PASS	V	PK
12	13675.7117	-1.74	49.45	47.71	74.00	26.29	PASS	V	PK

#### Remark:

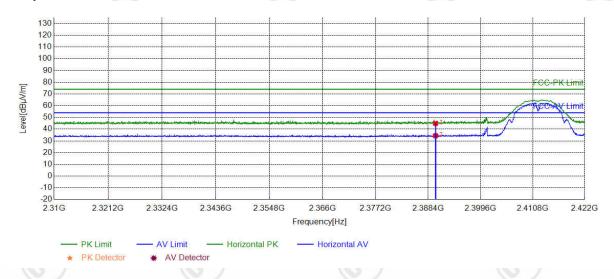
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Factor
  - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance 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.



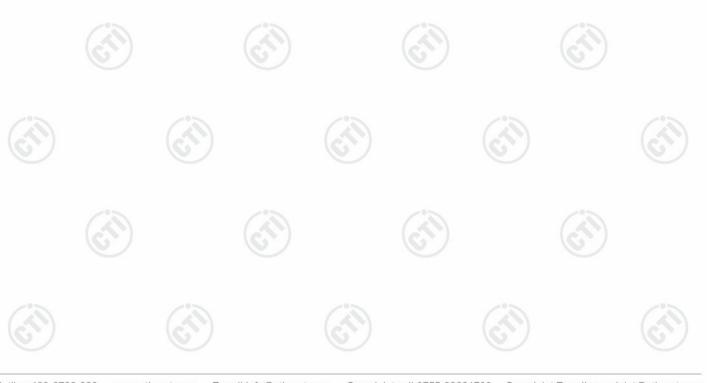


### **Restricted bands:**

Mode:	802.11 b Transmitting	Channel:	2412
Remark:	<b>/</b> 'S	(*)	



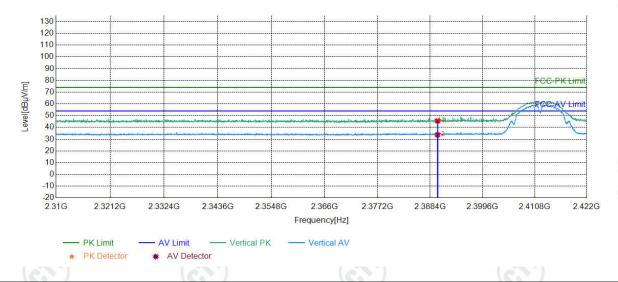
	Suspe	cted List								
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	39.17	44.94	74.00	29.06	PASS	Horizontal	PK
1	2	2390.0000	5.77	28.65	34.42	54.00	19.58	PASS	Horizontal	AV



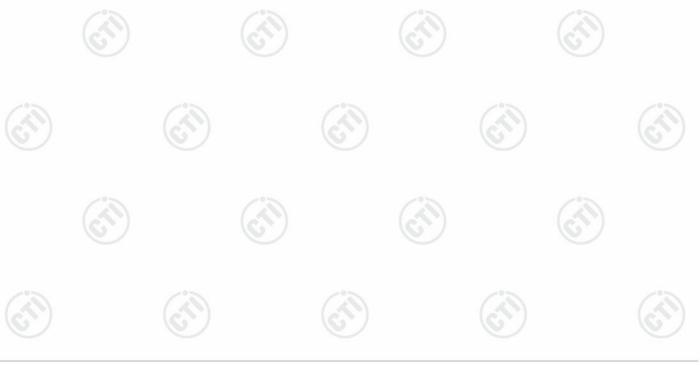


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Mode:	802.11 b Transmitting	Channel:	2412
Remark:		- 1.1	



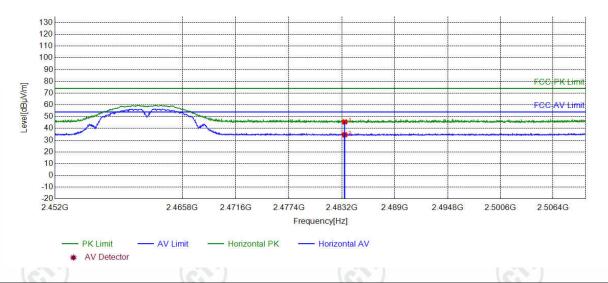
Suspec	ted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.78	45.55	74.00	28.45	PASS	Vertical	PK
2	2390.0000	5.77	27.96	33.73	54.00	20.27	PASS	Vertical	AV





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Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



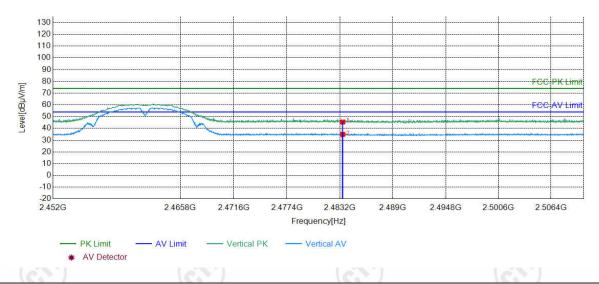
	Suspec	cted List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	38.99	45.56	74.00	28.44	PASS	Horizontal	PK
	2	2483.5000	6.57	28.01	34.58	54.00	19.42	PASS	Horizontal	AV



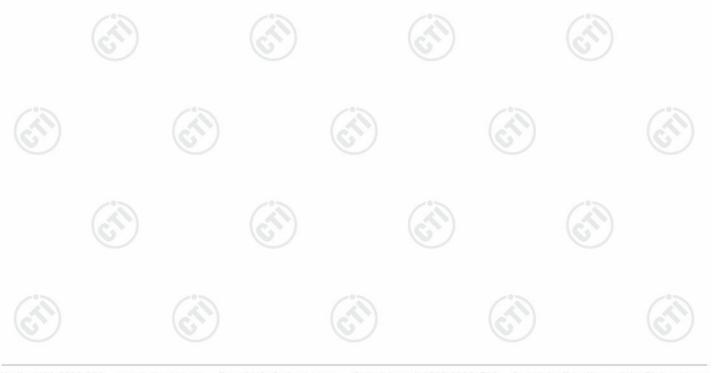


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Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



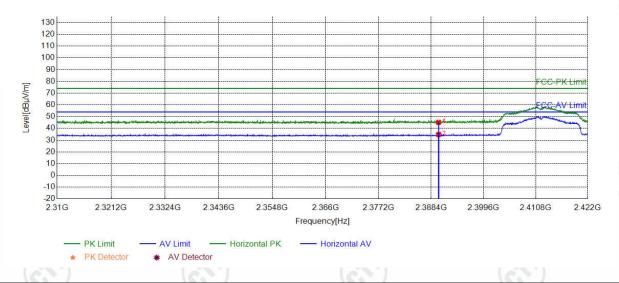
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
3	1	2483.5000	6.57	38.88	45.45	74.00	28.55	PASS	Vertical	PK		
	2	2483.5000	6.57	28.32	34.89	54.00	19.11	PASS	Vertical	AV		





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Mode:	802.11 g Transmitting	Channel:	: 2412
Remark:	5.50		



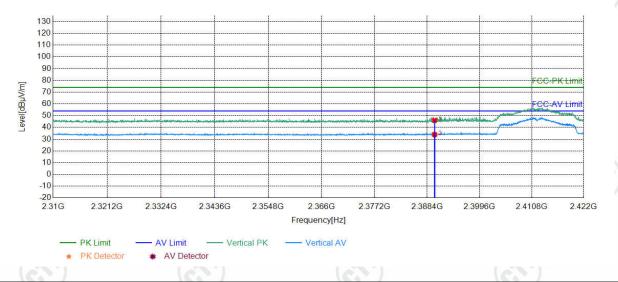
Suspec	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.37	45.14	74.00	28.86	PASS	Horizontal	PK
2	2390.0000	5.77	28.97	34.74	54.00	19.26	PASS	Horizontal	AV





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Mode:	802.11 g Transmitting	Channel:	2412	
Remark:	545			



	Suspec	Suspected List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	40.21	45.98	74.00	28.02	PASS	Vertical	PK
	2	2390.0000	5.77	28.15	33.92	54.00	20.08	PASS	Vertical	AV

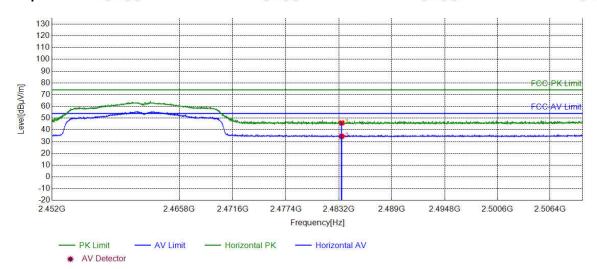






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Mode:	802.11 g Transmitting	Channel:	2462
Remark:			



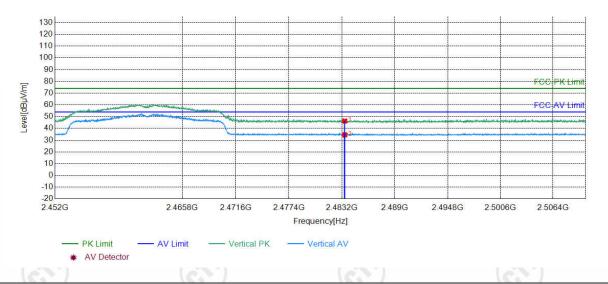
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
Γ	1	2483.5000	6.57	39.40	45.97	74.00	28.03	PASS	Horizontal	PK		
	2	2483.5000	6.57	27.94	34.51	54.00	19.49	PASS	Horizontal	AV		





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Mode:	802.11 g Transmitting	Channel:	2462
Remark:			



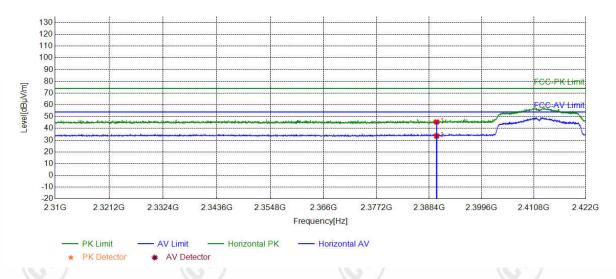
	Suspe	ected List								
.7	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2483.5000	6.57	39.74	46.31	74.00	27.69	PASS	Vertical	PK
	2	2483.5000	6.57	27.95	34.52	54.00	19.48	PASS	Vertical	AV



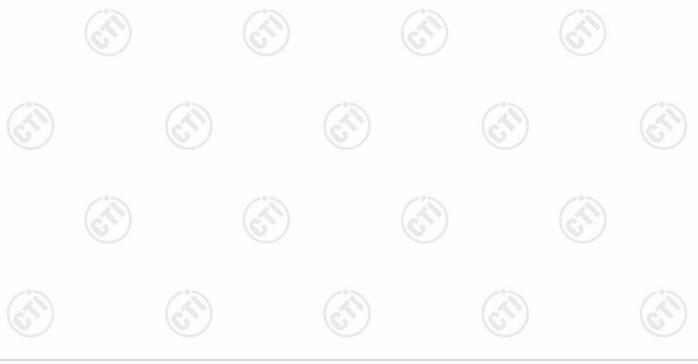




Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:	<b></b>	(3)	



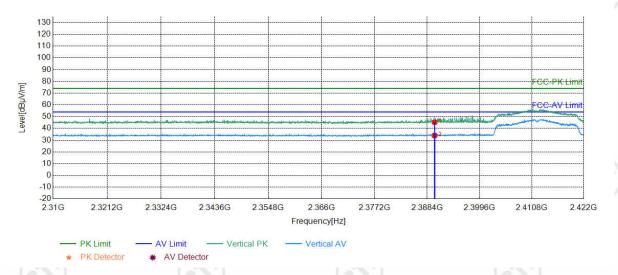
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	39.74	45.51	74.00	28.49	PASS	Horizontal	PK
-	2	2390.0000	5.77	27.88	33.65	54.00	20.35	PASS	Horizontal	AV







Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:			



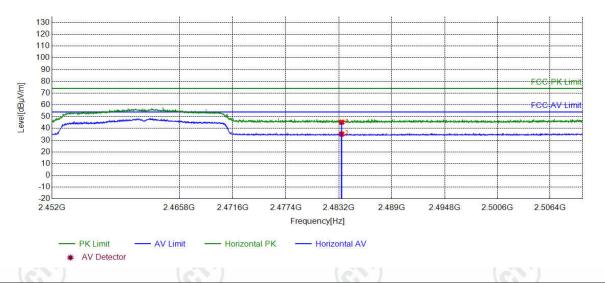
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
3	1	2390.0000	5.77	39.47	45.24	74.00	28.76	PASS	Vertical	PK	
	2	2390.0000	5.77	28.21	33.98	54.00	20.02	PASS	Vertical	AV	







Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:			



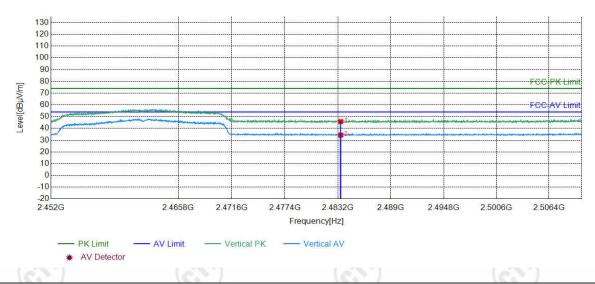
Suspected List										
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	38.69	45.26	74.00	28.74	PASS	Horizontal	PK
	2	2483.5000	6.57	28.59	35.16	54.00	18.84	PASS	Horizontal	AV





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Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:	~		



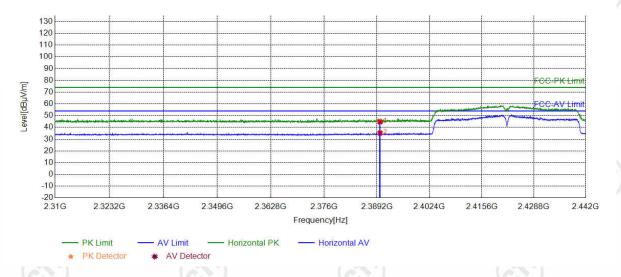
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	1	2483.5000	6.57	39.29	45.86	74.00	28.14	PASS	Vertical	PK		
	2	2483.5000	6.57	27.76	34.33	54.00	19.67	PASS	Vertical	AV		





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Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



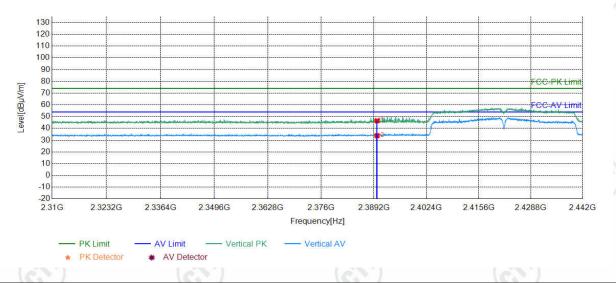
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
3	1	2390.0000	5.77	39.02	44.79	74.00	29.21	PASS	Horizontal	PK	
	2	2390.0000	5.77	29.37	35.14	54.00	18.86	PASS	Horizontal	AV	





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Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



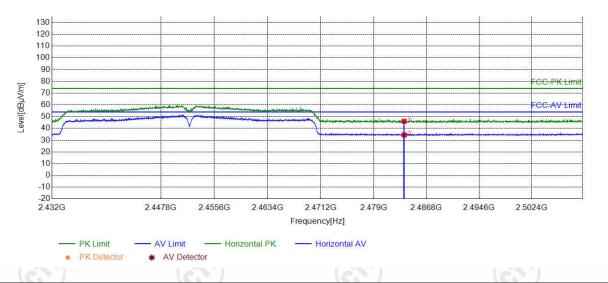
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.72	46.49	74.00	27.51	PASS	Vertical	PK
2	2390.0000	5.77	28.03	33.80	54.00	20.20	PASS	Vertical	AV





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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	5450		



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	39.54	46.11	74.00	27.89	PASS	Horizontal	PK
	2	2483.5000	6.57	27.87	34.44	54.00	19.56	PASS	Horizontal	AV

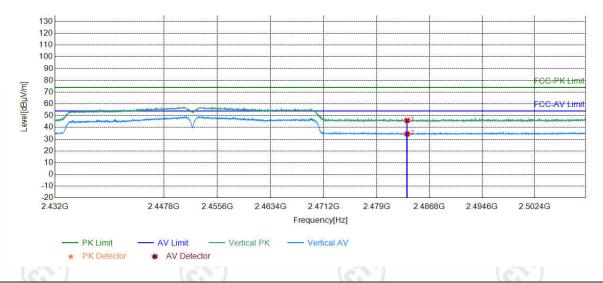




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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	5450		

#### **Test Graph**



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.29	45.86	74.00	28.14	PASS	Vertical	PK
2	2483.5000	6.57	27.85	34.42	54.00	19.58	PASS	Vertical	AV

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

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor













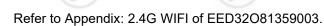








# 8 Appendix A































































































# 9 PHOTOGRAPHS OF TEST SETUP

Test Model No.: DHP511



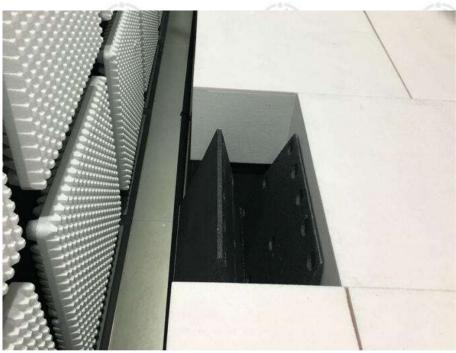
Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)



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



**AC Power Line Conducted Emission** 













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# 10 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32O81359001 for EUT external and internal photos.

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

