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## TEST REPORT

**Product Smart Projector** 

Trade mark OVO

Model/Type reference OVO-U5

**Serial Number** N/A

EED32O80066303 **Report Number** 

FCC ID 2AAUL-OVO-U5

Date of Issue Mar. 08, 2022

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

**Test result PASS** 

#### Prepared for:

OVOMEDIA CREATIVE INC. 3F., No. 151, Ziqiang 5th Rd., Zhubei City, **Hsinchu County, Taiwan** 

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Report Seal

Date:

Mar. 08, 2022

David Wang

Check No.: 4903140122













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## 3 Version

Version No.	Date	6	Description	9
00	Mar. 08, 2022		Original	
		10		
(	(2)	(92)	(62)	(6,1,2)













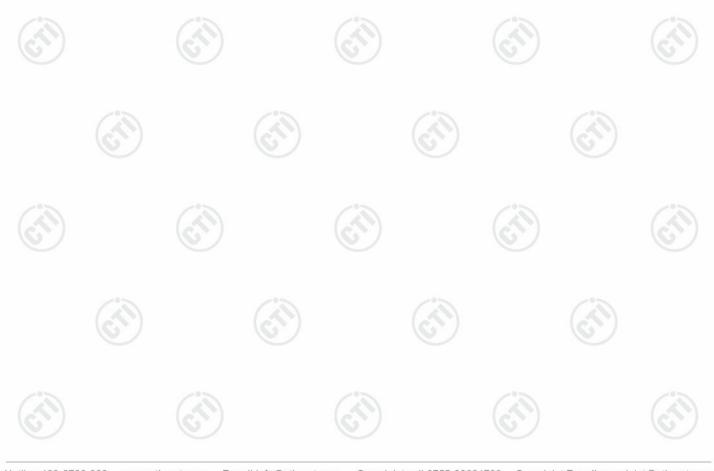
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## **4 Test Summary**

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.





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## **General Information**

## 5.1 Client Information

Applicant:	OVOMEDIA CREATIVE INC.
Address of Applicant:	3F., No. 151, Ziqiang 5th Rd., Zhubei City, Hsinchu County, Taiwan
Manufacturer:	Shenzhen WOWOTO Technology Co., Ltd.
Address of Manufacturer:	Room B508, Building B, Gao xinqi Industrial Park, Liuxian 1st Road, District 67, Bao'an, Shenzhen.
Factory:	Shenzhen WOWOTO Technology Co., Ltd.
Address of Factory:	South side of 2th Floor, Building C, Yingren Yingren shiwentao Science Park , Bao'an, Shenzhen, China

## 5.2 General Description of EUT

Product Name:	Smart Projector				
Model No.(EUT):	OVO-U5				
Trade mark:	OVO	TO:		(3)	(3)
Product Type:	☐ Mobile ☐ Po	ortable 🗵	Fix Loca	tion	(0,
Operation Frequency:	IEEE 802.11b/g/n(HIEEE 802.11n(HT40	•			
Modulation Type:	IEEE for 802.11b:D IEEE for 802.11g:O IEEE for 802.11n(H	FDM(64QA	M, 16QAN	Л, QPSK, BP	'SK)
Number of Channel:	IEEE 802.11b/g, IE IEEE 802.11n HT40			Channels	
Channel Separation:	5MHz			/°>	/3
Antenna Type:	FPC Antenna				(6.77)
Antenna Gain:	ANT1: 2.24dBi, AN	T2: 2.85dBi	İ		
Function	☐ SISO ⊠ 2x2 MIN	MO □ 3x3	MIMO 🗆 4	x4MIMO	
Power Supply:	Adapter	Input:10		0HIB210 0/60Hz 1.0A A 39.9W Max	
Test Voltage:	AC 120V	·			
Sample Received Date:	Jan. 14, 2022				
Sample tested Date:	Jan. 14, 2022 to Fe	eb. 17, 2022	)	(3)	(3)

### Remark:

MIMO technology Directional gain=GANT <sub>MAX</sub> + 10 log(N<sub>ANT</sub>/N<sub>SS</sub>) dBi;

N<sub>SS</sub> = the number of independent spatial streams of data=1;

GANT MAX =tthe gain of the antenna having the highest gain (in dBi).













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100		100		100		797	
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		(6)
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:

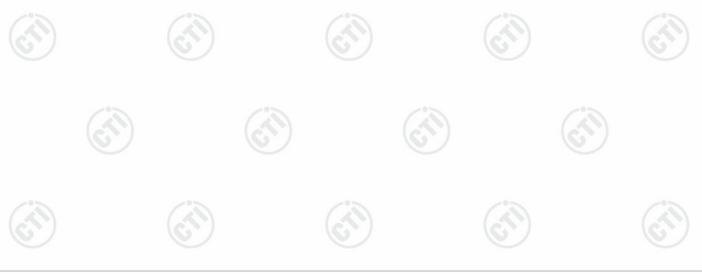
In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

#### 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:	SecureCRT	
EUT Power Grade:	Default	
Use test software to set the lower	est frequency, the middle frequency and the highest frequency keep	- 5.50

# transmitting of the EUT. Test Mode:

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

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

Mode	Data rate		
802.11b	1Mbps		
802.11g	6Mbps		
802.11n(HT20)	6.5Mbps		
802.11n(HT40)	13.5Mbps		

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 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	2423				-5-
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
				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 nature conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
0		3.3dB (9kHz-30MHz)
	Dadiated Spurious amission 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	08-04-2021	08-03-2022		
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022		
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022		
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	(C.)	(C)		

Conducted disturbance Test						
Equipment Manufacture		Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022	
Temperature/ Humidity Indicator Defu TH128		/	<u> </u>	7.30		
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022	
Barometer	changchun	DYM3	1188			

3M Semi/full-anechoic Chamber							
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022		
Receiver	R&S	ESCI7	100938-003	10-15-2021	10-14-2022		
Multi device Controller	maturo	NCD/070/10711112					
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04/14/2024		
Spectrum Analyzer	R&S	FSP40	100416	04-29-2021	04-28-2022		
Microwave Preamplifier	Agilent	8449B	3008A02425	06-23-2021	06-22-2022		



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1 1			1 1 1 1	/	100
		3M full-anech	oic 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	03-04-2021	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
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001	(	(i)
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002		
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003	<u></u>	/
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	(0,7)	(6
Cable line	Times	EMC104-NMNM- 1000	SN160710		
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001	/	
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001		(i)
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		- 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.

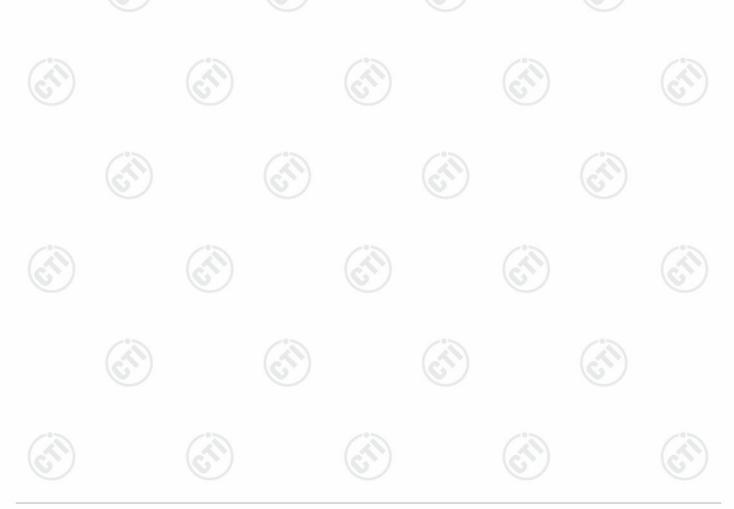
15.247(b) (4) requirement:

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 FPC antenna, The best case gain of the antenna 1 is 2.24dBi,

The best case gain of the antenna 2 is 2.85dBi.





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## 7.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sy					
Limit:	Frequency range (MHz)	Limit (c Quasi-peak	BuV) Average			
2	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.	Z°2			
Test Setup:	Shielding Room  EUT  AC Mains  LISN1	AE  LISN2  AC Ma	Test Receiver			
Test Procedure:	The mains terminal disturb	ance voltage test was	s conducted in a shielded			
	<ul> <li>room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Li Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω line impedance. The power cables of all other units of the EUT we connected to a second LISN 2, which was bonded to the ground referen plane in the same way as the LISN 1 for the unit being measured. multiple socket outlet strip was used to connect multiple power cables to single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above t ground reference plane. And for floor-standing arrangement, the EUT w placed on the horizontal ground reference plane.</li> </ul>					
	<ul> <li>4) The test was performed with a vertical ground reference plane. The reather EUT shall be 0.4 m from the vertical ground reference plane. vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of unit under test and bonded to a ground reference plane for LISM mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the land associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ul>					
Test Mode:	All modes were tested, only the		orded in the report.			
Test Results:	Pass					

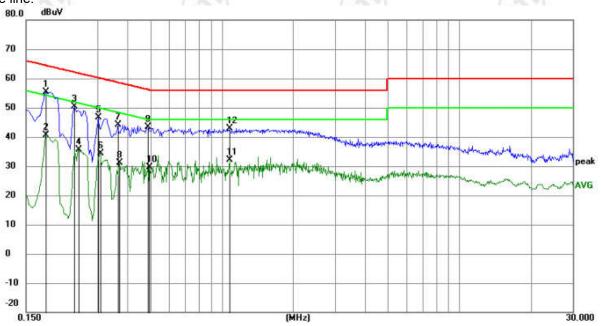






#### **Measurement Data**

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1815	45.59	9.87	55.46	64.42	-8.96	QP	
2		0.1815	30.67	9.87	40.54	54.42	-13.88	AVG	
3		0.2400	40.51	9.95	50.46	62.10	-11.64	QP	
4		0.2490	25.62	9.97	35.59	51.79	-16.20	AVG	
5		0.3030	36.45	10.07	46.52	60.16	-13.64	QP	
6		0.3075	24.20	10.06	34.26	50.04	-15.78	AVG	
7		0.3660	34.22	10.00	44.22	58.59	-14.37	QP	
8		0.3704	21.02	10.00	31.02	48.49	-17.47	AVG	
9		0.4875	33.45	9.95	43.40	56.21	-12.81	QP	
10		0.4965	19.69	9.95	29.64	46.06	-16.42	AVG	
11		1.0814	22.39	9.83	32.22	46.00	-13.78	AVG	
12		1.0815	33.12	9.83	42.95	56.00	-13.05	QP	

- 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.

















# Neutral line: 80.0 70 60 50 40 30 AVG 20 10 -10 -20

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1815	46.02	9.87	55.89	64.42	-8.53	QP	
2		0.1860	31.48	9.87	41.35	54.21	-12.86	AVG	
3		0.2400	40.06	9.95	50.01	62.10	-12.09	QP	
4		0.2400	25.39	9.95	35.34	52.10	-16.76	AVG	
5		0.3075	23.53	10.06	33.59	50.04	-16.45	AVG	
6		0.3120	36.42	10.06	46.48	59.92	-13.44	QP	
7		0.3615	34.56	10.01	44.57	58.69	-14.12	QP	
8		0.3660	21.39	10.00	31.39	48.59	-17.20	AVG	
9		1.1894	19.57	9.82	29.39	46.00	-16.61	AVG	
10		1.1985	32.00	9.82	41.82	56.00	-14.18	QP	
11		1.9680	22.63	9.79	32.42	46.00	-13.58	AVG	
12		1.9860	33.45	9.79	43.24	56.00	-12.76	QP	

(MHz)

#### Remark:

0.150

- 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.











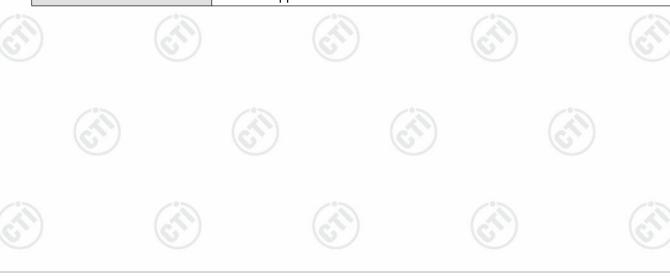
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## 7.3 Maximum Conducted Output Power

Test	Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test	Method:	ANSI C63.10 2013				
Test	Setup:	ET)				
		Control Control Control Control Poote Poote Poote Poote Poot Poot Poot				
	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.				
Limi	t:	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 A				



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



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## 7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Control 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 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 Computes  Power Supply  TEMPERATURE CABNET  Table	RF test - System Instrument			
	Remark: Offset=Cable loss+ attenua	ation 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:	The maximum permissible power de antenna gain is >6 dBi, the limit is re Gain -6 dBi. In this case: MIMO Directional Antenna gain = 7.0 Limit = 6.91dBm/3kHz	educed by the MIMO Directional Antenna			
Test Mode:	Refer to clause 5.3				
Test Results:	Refer to Appendix A	(i) (ii)			







## 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 Control Control Power Supply Power Foot Table  RF test System Instrument Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

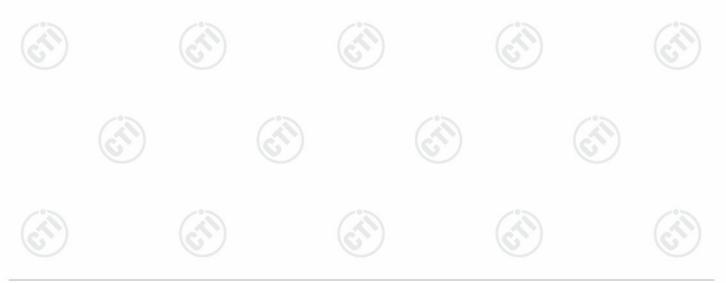






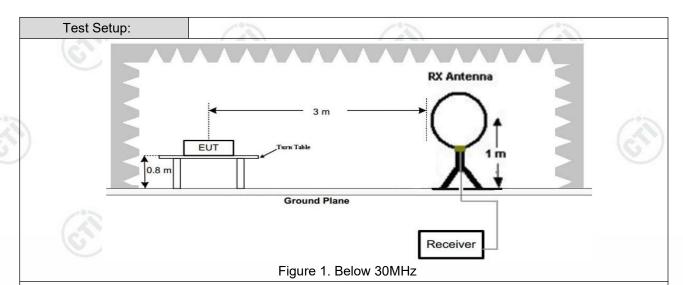
## 7.7 Radiated Spurious Emission & Restricted bands

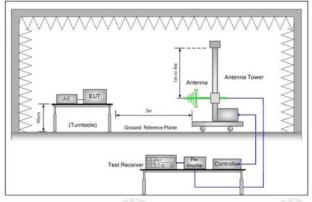
A 60° A V			(6)		10.	<i>)</i>		
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205				
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	-0.5		
Receiver Setup:	Frequency	11	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	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		
	Above 1GHZ		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)	-	-/0>	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	6	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), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							





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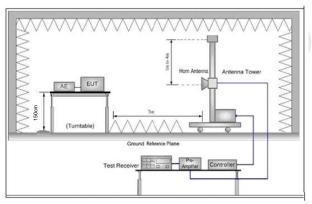


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

#### Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
  - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



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	<ul> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning</li> </ul>
	<ul><li>for Transmitting mode, and found the X axis positioning which it is the worst case.</li><li>i. Repeat above procedures until all frequencies measured was complete.</li></ul>
	Refer to clause 5.3
Test Mode:	

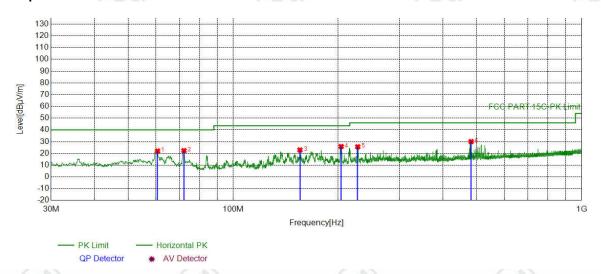




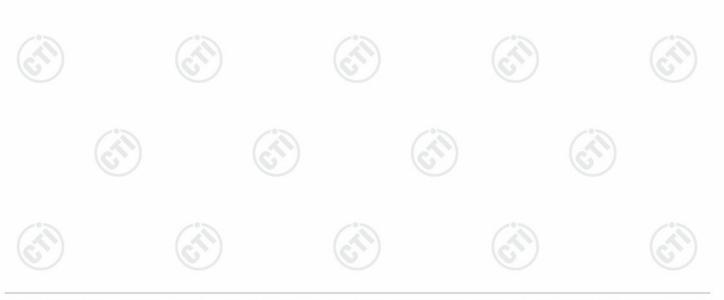


## Radiated Spurious Emission below 1GHz:

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.

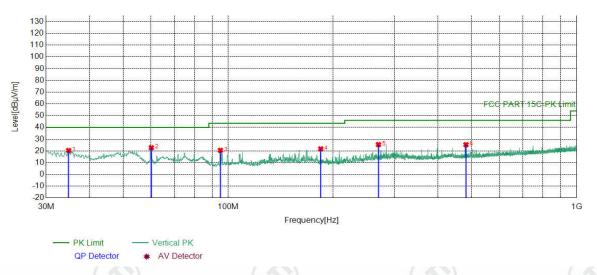


	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	60.6551	-18.68	40.74	22.06	40.00	17.94	PASS	Horizontal	PK
6	2	72.1992	-21.22	43.62	22.40	40.00	17.60	PASS	Horizontal	PK
-	3	155.4335	-21.38	44.30	22.92	43.50	20.58	PASS	Horizontal	PK
	4	204.1324	-17.76	43.65	25.89	43.50	17.61	PASS	Horizontal	PK
	5	227.7058	-17.08	42.72	25.64	46.00	20.36	PASS	Horizontal	PK
	6	481.7742	-11.18	41.26	30.08	46.00	15.92	PASS	Horizontal	PK

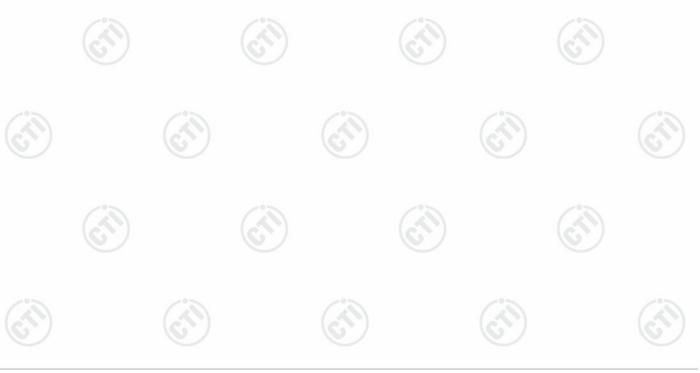




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Susp	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	34.8505	-19.65	40.01	20.36	40.00	19.64	PASS	Vertical	PK
2	60.1700	-18.56	41.28	22.72	40.00	17.28	PASS	Vertical	PK
3	94.9965	-19.29	39.78	20.49	43.50	23.01	PASS	Vertical	PK
4	184.3424	-19.37	41.12	21.75	43.50	21.75	PASS	Vertical	PK
5	270.0020	-16.15	41.55	25.40	46.00	20.60	PASS	Vertical	PK
6	481.2891	-11.18	36.48	25.30	46.00	20.70	PASS	Vertical	PK





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## Radiated Spurious Emission above 1GHz:

For SISO mode, the Antenna 1 was the worst case, only the worst case was recorded in the report.

	Mode	:		802.1	I1 b Trar	smitting		Channel:		2412MHz	
0.01	NO	Freq. [MHz]	Factor		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1146.8147	0.83		42.31	43.14	74.00	30.86	PASS	Н	PK
Ī	2	1981.8982	4.46		40.54	45.00	74.00	29.00	PASS	Н	PK
Ī	3	4824.1216	-16.22	2	55.13	38.91	74.00	35.09	PASS	Н	PK
Ī	4	7238.2826	-11.78	3	60.87	49.09	74.00	24.91	PASS	Н	PK
	5	11728.5819	-6.21		51.73	45.52	74.00	28.48	PASS	Н	PK
Ī	6	16273.8849	1.51		50.65	52.16	74.00	21.84	PASS	Н	PK
Ī	7	1105.2105	0.85		42.66	43.51	74.00	30.49	PASS	V	PK
3	8	1502.6503	1.49		43.15	44.64	74.00	29.36	PASS	V	PK
•	9	4877.1251	-16.21		55.08	38.87	74.00	35.13	PASS	V	PK
-	10	7235.2824	-11.79	)	58.73	46.94	74.00	27.06	PASS	V	PK
Ī	11	10719.5146	-6.42		51.73	45.31	74.00	28.69	PASS	V	PK
Ī	12	16257.8839	1.38		50.04	51.42	74.00	22.58	PASS	V	PK

Mode	:	8	02.11 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	1306.2306	1.08	41.78	42.86	74.00	31.14	PASS	Н	PK
2	1869.0869	3.80	40.20	44.00	74.00	30.00	PASS	Н	PK
3	4278.0852	-17.40	55.28	37.88	74.00	36.12	PASS	Н	PK
4	7309.2873	-11.67	57.68	46.01	74.00	27.99	PASS	Н	PK
5	11788.5859	-6.13	51.77	45.64	74.00	28.36	PASS	Н	PK
6	16270.8847	1.49	50.20	51.69	74.00	22.31	PASS	Н	PK
7	1268.8269	0.98	41.29	42.27	74.00	31.73	PASS	V	PK
8	2031.7032	4.65	40.45	45.10	74.00	28.90	PASS	V	PK
9	4874.1249	-16.21	54.24	38.03	74.00	35.97	PASS	V	PK
10	7308.2872	-11.68	57.19	45.51	74.00	28.49	PASS	V	PK
11	11777.5852	-6.14	53.16	47.02	74.00	26.98	PASS	V	PK
12	16344.8897	0.74	50.40	51.14	74.00	22.86	PASS	V	PK













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п				V 707						
	Mode	:		802.11 b Tran	smitting		Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1220.4220	0.85	41.88	42.73	74.00	31.27	PASS	Н	PK
	2	2100.1100	4.88	40.81	45.69	74.00	28.31	PASS	Н	PK
	3	4676.1117	-16.61	54.61	38.00	74.00	36.00	PASS	Н	PK
	4	7387.2925	-11.53	57.47	45.94	74.00	28.06	PASS	Н	PK
	5	10231.4821	-6.92	51.02	44.10	74.00	29.90	PASS	Н	PK
	6	13728.7152	-1.73	50.37	48.64	74.00	25.36	PASS	Н	PK
	7	1195.0195	0.80	42.11	42.91	74.00	31.09	PASS	V	PK
	8	1913.8914	4.10	40.63	44.73	74.00	29.27	PASS	V	PK
	9	4924.1283	-16.11	55.74	39.63	74.00	34.37	PASS	V	PK
	10	6565.2377	-12.78	57.60	44.82	74.00	29.18	PASS	V	PK
9	11	9807.4538	-7.36	51.24	43.88	74.00	30.12	PASS	V	PK
	12	13720.7147	-1.74	51.05	49.31	74.00	24.69	PASS	V	PK

Mode	<b>)</b> :		802.11 g Tran	smitting		Channe	el:	2412MHz	
NO	Freq. [MHz]	Facto [dB]	[dBu\/]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1195.6196	0.80	41.60	42.40	74.00	31.60	PASS	Н	PK
2	1790.6791	3.25	41.10	44.35	74.00	29.65	PASS	Н	PK
3	4817.1211	-16.22	2 54.31	38.09	74.00	35.91	PASS	Н	PK
4	7232.2822	-11.79	9 61.55	49.76	74.00	24.24	PASS	Н	PK
5	10204.4803	-7.10	51.47	44.37	74.00	29.63	PASS	Н	PK
6	14355.7571	0.49	48.62	49.11	74.00	24.89	PASS	Н	PK
7	1207.6208	0.82	41.90	42.72	74.00	31.28	PASS	V	PK
8	1869.0869	3.80	40.42	44.22	74.00	29.78	PASS	V	PK
9	3806.0537	-19.23	3 56.59	37.36	74.00	36.64	PASS	V	PK
10	5007.1338	-15.8°	1 54.01	38.20	74.00	35.80	PASS	V	PK
11	7241.2828	-11.78	58.60	46.82	74.00	27.18	PASS	V	PK
12	13295.6864	-3.44	50.34	46.90	74.00	27.10	PASS	V	PK













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Mode		81	02.11 g Tran	smitting		Channel: 2437MHz			7
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1252.8253	0.94	42.00	42.94	74.00	31.06	PASS	Н	PK
2	1653.6654	2.64	41.73	44.37	74.00	29.63	PASS	Н	PK
3	4377.0918	-17.09	55.02	37.93	74.00	36.07	PASS	Н	PK
4	7305.2870	-11.68	60.67	48.99	74.00	25.01	PASS	Н	PK
5	10370.4914	-6.33	51.20	44.87	74.00	29.13	PASS	Н	PK
6	14308.7539	-0.29	51.25	50.96	74.00	23.04	PASS	Н	PK
7	1104.0104	0.85	42.41	43.26	74.00	30.74	PASS	V	PK
8	1501.4501	1.48	43.64	45.12	74.00	28.88	PASS	V	PK
9	5760.1840	-13.71	56.22	42.51	74.00	31.49	PASS	V	PK
10	7308.2872	-11.68	58.19	46.51	74.00	27.49	PASS	V	PK
11	10837.5225	-6.28	51.12	44.84	74.00	29.16	PASS	V	PK
12	14772.7849	0.85	48.84	49.69	74.00	24.31	PASS	V	PK

Mode	:		802.11 g Tran	smitting		Channe	el:	2462MHz	
NO	Freq. [MHz]	Facto	[dBuV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1101.8102	0.85	42.38	43.23	74.00	30.77	PASS	Н	PK
2	1829.0829	3.50	41.28	44.78	74.00	29.22	PASS	Н	PK
3	3810.0540	-19.2	3 56.69	37.46	74.00	36.54	PASS	Н	PK
4	7381.2921	-11.5	4 59.44	47.90	74.00	26.10	PASS	Н	PK
5	11795.5864	-6.12	52.00	45.88	74.00	28.12	PASS	Н	PK
6	14780.7854	0.96	49.09	50.05	74.00	23.95	PASS	Н	PK
7	1103.6104	0.85	42.68	43.53	74.00	30.47	PASS	V	PK
8	1978.4979	4.44	40.60	45.04	74.00	28.96	PASS	V	PK
9	4190.0793	-18.0	4 56.49	38.45	74.00	35.55	PASS	V	PK
10	7386.2924	-11.5	3 58.23	46.70	74.00	27.30	PASS	V	PK
11	10829.5220	-6.27	51.56	45.29	74.00	28.71	PASS	V	PK
12	14302.7535	-0.39	49.92	49.53	74.00	24.47	PASS	V	PK















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		20%				10%	20%				
	Mode	:		802.11 n(HT2	0) Transmitti	ng	Channe	el:	2412MH	Z	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	1249.2249	0.93	42.57	43.50	74.00	30.50	PASS	Н	PK	
3	2	1885.2885	3.92	40.47	44.39	74.00	29.61	PASS	Н	PK	
	3	4257.0838	-17.57	55.25	37.68	74.00	36.32	PASS	Н	PK	
	4	7223.2816	-11.81	61.99	50.18	74.00	23.82	PASS	Н	PK	
	5	10864.5243	-6.32	51.77	45.45	74.00	28.55	PASS	Н	PK	
	6	13743.7162	-1.71	51.09	49.38	74.00	24.62	PASS	Н	PK	
	7	1263.6264	0.97	42.17	43.14	74.00	30.86	PASS	V	PK	
	8	1892.6893	3.98	40.20	44.18	74.00	29.82	PASS	V	PK	
	9	4865.1243	-16.21	54.44	38.23	74.00	35.77	PASS	V	PK	
	10	7238.2826	-11.78	59.27	47.49	74.00	26.51	PASS	V	PK	
9	11	11231.5488	-6.49	51.85	45.36	74.00	28.64	PASS	V	PK	
	12	13681.7121	-1.74	50.07	48.33	74.00	25.67	PASS	V	PK	

Mode:			0) Transmitti	rig	Channel:		2437MHz	
H <sub>2</sub> ]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
8122 0.	84	42.32	43.16	74.00	30.84	PASS	Н	PK
4840 3.	58	41.19	44.77	74.00	29.23	PASS	Н	PK
0967 -17	.00	55.07	38.07	74.00	35.93	PASS	Н	PK
2878 -11	.66	59.39	47.73	74.00	26.27	PASS	Н	PK
.4835 -6	78	51.67	44.89	74.00	29.11	PASS	Н	PK
.7563 0.	29	49.19	49.48	74.00	24.52	PASS	Н	PK
4221 0.	86	42.53	43.39	74.00	30.61	PASS	٧	PK
8879 3.	87	40.33	44.20	74.00	29.80	PASS	V	PK
1000 -16	.95	54.68	37.73	74.00	36.27	PASS	V	PK
2873 -11	.67	58.16	46.49	74.00	27.51	PASS	V	PK
.5526 -6	61	52.66	46.05	74.00	27.95	PASS	V	PK
.7569 0.	45	48.81	49.26	74.00	24.74	PASS	V	PK
3	Hz] [d .8122 0.8 .4840 3.8 .0967 -17 .2878 -11 2.4835 -6. 3.7563 0.8 .4221 0.8 .8879 3.8 .1000 -16 .2873 -11	[dB] .8122	Hz] [dB] [dBμV]  .8122 0.84 42.32  .4840 3.58 41.19  .0967 -17.00 55.07  .2878 -11.66 59.39  .4835 -6.78 51.67  .7563 0.29 49.19  .4221 0.86 42.53  .8879 3.87 40.33  .1000 -16.95 54.68  .2873 -11.67 58.16  .55526 -6.61 52.66	Hz]         [dB]         [dBμV]         [dBμV/m]           .8122         0.84         42.32         43.16           .4840         3.58         41.19         44.77           .0967         -17.00         55.07         38.07           .2878         -11.66         59.39         47.73           2.4835         -6.78         51.67         44.89           3.7563         0.29         49.19         49.48           .4221         0.86         42.53         43.39           .8879         3.87         40.33         44.20           .1000         -16.95         54.68         37.73           .2873         -11.67         58.16         46.49           0.5526         -6.61         52.66         46.05	Hz]         [dB]         [dBμV]         [dBμV/m]         [dBμV/m]         [dBμV/m]           .8122         0.84         42.32         43.16         74.00           .4840         3.58         41.19         44.77         74.00           .0967         -17.00         55.07         38.07         74.00           .2878         -11.66         59.39         47.73         74.00           .24835         -6.78         51.67         44.89         74.00           .3.7563         0.29         49.19         49.48         74.00           .4221         0.86         42.53         43.39         74.00           .8879         3.87         40.33         44.20         74.00           .1000         -16.95         54.68         37.73         74.00           .2873         -11.67         58.16         46.49         74.00           .5526         -6.61         52.66         46.05         74.00	Hz]         [dB]         [dBμV]         [dBμV/m]         [dBμV/m]         Margin [dB]           .8122         0.84         42.32         43.16         74.00         30.84           .4840         3.58         41.19         44.77         74.00         29.23           .0967         -17.00         55.07         38.07         74.00         35.93           .2878         -11.66         59.39         47.73         74.00         26.27           2.4835         -6.78         51.67         44.89         74.00         29.11           3.7563         0.29         49.19         49.48         74.00         24.52           .4221         0.86         42.53         43.39         74.00         30.61           .8879         3.87         40.33         44.20         74.00         29.80           .1000         -16.95         54.68         37.73         74.00         36.27           .2873         -11.67         58.16         46.49         74.00         27.51           0.5526         -6.61         52.66         46.05         74.00         27.95	Hz   [dB]   [dBμV]   [dBμV/m]   [dBμV/m]   Margin [dB]   Result	Hz   [dB   [dB   V]   [dB   V/m]   [dB   V/m]   Margin [dB   Result   Polarity













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	205			707			50			
	Mode	:	8	02.11 n(HT2	0) Transmitti	ing	Channe	el:	2462MH	Z
	ОИ	Freq. [MHz]	Factor [dB]	Reading [dB <sub>µ</sub> V]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1087.8088	0.86	42.29	43.15	74.00	30.85	PASS	Н	PK
9	2	1871.4871	3.82	40.87	44.69	74.00	29.31	PASS	Н	PK
	3	4236.0824	-17.73	55.19	37.46	74.00	36.54	PASS	Н	PK
	4	7388.2926	-11.53	58.78	47.25	74.00	26.75	PASS	Н	PK
Ī	5	10780.5187	-6.28	51.36	45.08	74.00	28.92	PASS	Н	PK
Ī	6	13681.7121	-1.74	50.41	48.67	74.00	25.33	PASS	Н	PK
Ī	7	1164.6165	0.82	42.58	43.40	74.00	30.60	PASS	V	PK
Ī	8	1807.6808	3.34	40.58	43.92	74.00	30.08	PASS	V	PK
Ī	9	4194.0796	-18.03	57.23	39.20	74.00	34.80	PASS	V	PK
Ī	10	7379.2920	-11.55	58.03	46.48	74.00	27.52	PASS	V	PK
3	11	11845.5897	-5.98	52.01	46.03	74.00	27.97	PASS	V	PK
V	12	14384.7590	0.97	48.85	49.82	74.00	24.18	PASS	V	PK

N	Mode:			802.11 n(HT4	0) Transmitti	ing	Channel:		2422MHz	
1	NO	Freq. [MHz]	Facto	r Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1252.0252	0.94	42.18	43.12	74.00	30.88	PASS	Н	PK
	2	1939.2939	4.23	41.18	45.41	74.00	28.59	PASS	Н	PK
	3	4399.0933	-17.0	5 54.76	37.71	74.00	36.29	PASS	Н	PK
9	4	7270.2847	-11.73	3 57.30	45.57	74.00	28.43	PASS	Н	PK
	5	10260.4840	-6.72	50.94	44.22	74.00	29.78	PASS	Н	PK
	6	14398.7599	1.20	48.09	49.29	74.00	24.71	PASS	Н	PK
	7	1148.0148	0.83	43.12	43.95	74.00	30.05	PASS	V	PK
	8	1498.2498	1.47	44.13	45.60	74.00	28.40	PASS	V	PK
	9	4265.0843	-17.5	1 55.61	38.10	74.00	35.90	PASS	V	PK
	10	7263.2842	-11.7	5 55.67	43.92	74.00	30.08	PASS	V	PK
	11	11149.5433	-6.31	51.78	45.47	74.00	28.53	PASS	V	PK
	12	13756.7171	-1.69	51.52	49.83	74.00	24.17	PASS	V	PK













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п										
	Mode	:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2437MH	Z
	NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1101.0101	0.85	42.80	43.65	74.00	30.35	PASS	Н	PK
6	2	1794.6795	3.26	42.32	45.58	74.00	28.42	PASS	Н	PK
	3	4695.1130	-16.59	55.49	38.90	74.00	35.10	PASS	Н	PK
	4	7313.2876	-11.67	58.22	46.55	74.00	27.45	PASS	Н	PK
	5	10327.4885	-6.41	51.71	45.30	74.00	28.70	PASS	Н	PK
	6	15337.8225	-0.20	49.55	49.35	74.00	24.65	PASS	Н	PK
	7	1162.6163	0.82	42.54	43.36	74.00	30.64	PASS	V	PK
	8	1637.4637	2.53	41.50	44.03	74.00	29.97	PASS	V	PK
	9	4418.0945	-17.03	55.94	38.91	74.00	35.09	PASS	V	PK
	10	7304.2870	-11.68	56.22	44.54	74.00	29.46	PASS	V	PK
9	11	10809.5206	-6.24	51.41	45.17	74.00	28.83	PASS	V	PK
	12	14385.7591	0.98	49.09	50.07	74.00	23.93	PASS	V	PK

Mode	:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2452MH:	Z
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1191.6192	0.80	42.51	43.31	74.00	30.69	PASS	Н	PK
2	1855.6856	3.70	40.62	44.32	74.00	29.68	PASS	Н	PK
3	3843.0562	-19.18	56.51	37.33	74.00	36.67	PASS	Н	PK
4	7360.2907	-11.58	57.86	46.28	74.00	27.72	PASS	Н	PK
5	10260.4840	-6.72	50.76	44.04	74.00	29.96	PASS	Н	PK
6	14392.7595	1.10	48.79	49.89	74.00	24.11	PASS	Н	PK
7	1225.2225	0.87	42.01	42.88	74.00	31.12	PASS	V	PK
8	1810.8811	3.36	41.05	44.41	74.00	29.59	PASS	V	PK
9	4701.1134	-16.58	55.72	39.14	74.00	34.86	PASS	V	PK
10	7340.2894	-11.62	55.89	44.27	74.00	29.73	PASS	V	PK
11	11297.5532	-6.63	52.06	45.43	74.00	28.57	PASS	V	PK
12	14296.7531	-0.46	50.12	49.66	74.00	24.34	PASS	V	PK













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### For MIMO:

Mode	):		302.11 n(HT2	0) Transmitti	ng	Channe	el:	2412MH	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1279.2279	1.01	42.25	43.26	74.00	30.74	PASS	Н	PK
2	1959.4960	4.34	39.95	44.29	74.00	29.71	PASS	Н	PK
3	4151.0767	-18.10	55.67	37.57	74.00	36.43	PASS	Н	PK
4	7239.2826	-11.78	59.50	47.72	74.00	26.28	PASS	Н	PK
5	11257.5505	-6.55	52.70	46.15	74.00	27.85	PASS	Н	PK
6	13710.7140	-1.76	51.49	49.73	74.00	24.27	PASS	Н	PK
7	1207.0207	0.82	42.77	43.59	74.00	30.41	PASS	V	PK
8	1999.7000	4.55	42.65	47.20	74.00	26.80	PASS	V	PK
9	4188.0792	-18.04	59.81	41.77	74.00	32.23	PASS	V	PK
10	7236.2824	-11.79	55.47	43.68	74.00	30.32	PASS	V	PK
11	11279.5520	-6.59	52.47	45.88	74.00	28.12	PASS	V	PK
12	14311.7541	-0.24	49.41	49.17	74.00	24.83	PASS	V	PK

Mode	Mode:		802.11 n(HT2	0) Transmitti	ing	Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1130.8131	0.83	42.08	42.91	74.00	31.09	PASS	Н	PK
2	1762.0762	3.15	40.89	44.04	74.00	29.96	PASS	Н	PK
3	4943.1295	-16.04	54.02	37.98	74.00	36.02	PASS	Н	PK
4	7313.2876	-11.67	56.12	44.45	74.00	29.55	PASS	Н	PK
5	10283.4856	-6.57	51.60	45.03	74.00	28.97	PASS	Н	PK
6	15331.8221	-0.26	49.12	48.86	74.00	25.14	PASS	Н	PK
7	1189.4189	0.81	42.18	42.99	74.00	31.01	PASS	V	PK
8	1807.0807	3.33	41.61	44.94	74.00	29.06	PASS	V	PK
9	3843.0562	-19.18	56.50	37.32	74.00	36.68	PASS	V	PK
10	6498.2332	-12.69	56.59	43.90	74.00	30.10	PASS	V	PK
11	9734.4490	-7.60	50.68	43.08	74.00	30.92	PASS	V	PK
12	13702.7135	-1.77	49.98	48.21	74.00	25.79	PASS	V	PK













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		20%		10%		2000	200			
	Mode	:		802.11 n(HT2	20) Transmitt	ing	Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Factor	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1193.4193	0.80	41.35	42.15	74.00	31.85	PASS	Н	PK
3	2	1885.0885	3.92	40.28	44.20	74.00	29.80	PASS	Н	PK
	3	3876.0584	-19.13	56.20	37.07	74.00	36.93	PASS	Н	PK
	4	6565.2377	-12.78	55.93	43.15	74.00	30.85	PASS	Н	PK
	5	9134.4090	-8.41	52.09	43.68	74.00	30.32	PASS	Н	PK
	6	13698.7132	-1.77	50.49	48.72	74.00	25.28	PASS	Н	PK
	7	1204.2204	0.81	41.76	42.57	74.00	31.43	PASS	V	PK
	8	1730.6731	3.04	40.68	43.72	74.00	30.28	PASS	V	PK
	9	3722.0481	-19.77	7 56.58	36.81	74.00	37.19	PASS	V	PK
	10	6565.2377	-12.78	58.40	45.62	74.00	28.38	PASS	V	PK
1	11	9219.4146	-7.89	51.72	43.83	74.00	30.17	PASS	V	PK
6	12	13664.7110	-1.72	49.88	48.16	74.00	25.84	PASS	V	PK

Mode	:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2422MH	Z
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1192.4192	0.80	41.95	42.75	74.00	31.25	PASS	Н	PK
2	1795.2795	3.26	41.03	44.29	74.00	29.71	PASS	Н	PK
3	4170.0780	-18.07	55.64	37.57	74.00	36.43	PASS	Н	PK
4	7241.2828	-11.78	56.05	44.27	74.00	29.73	PASS	Н	PK
5	10273.4849	-6.64	51.61	44.97	74.00	29.03	PASS	Н	PK
6	13741.7161	-1.71	51.26	49.55	74.00	24.45	PASS	Н	PK
7	1498.8499	1.47	43.62	45.09	74.00	28.91	PASS	V	PK
8	1973.4974	4.41	40.38	44.79	74.00	29.21	PASS	V	PK
9	3197.0131	-20.36	63.93	43.57	74.00	30.43	PASS	V	PK
10	5760.1840	-13.71	58.33	44.62	74.00	29.38	PASS	V	PK
11	9684.4456	-7.65	50.81	43.16	74.00	30.84	PASS	V	PK
12	13685.7124	-1.75	50.40	48.65	74.00	25.35	PASS	V	PK













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Mode	:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2437MH	Z
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1203.0203	0.81	41.75	42.56	74.00	31.44	PASS	Н	PK
2	1707.8708	2.97	40.43	43.40	74.00	30.60	PASS	Н	PK
3	4624.1083	-16.67	53.72	37.05	74.00	36.95	PASS	Н	PK
4	6498.2332	-12.69	56.83	44.14	74.00	29.86	PASS	Н	PK
5	10329.4886	-6.41	51.34	44.93	74.00	29.07	PASS	Н	PK
6	13756.7171	-1.69	50.28	48.59	74.00	25.41	PASS	Н	PK
7	1497.6498	1.47	44.97	46.44	74.00	27.56	PASS	V	PK
8	1792.6793	3.26	41.87	45.13	74.00	28.87	PASS	V	PK
9	3195.0130	-20.36	63.00	42.64	74.00	31.36	PASS	V	PK
10	6498.2332	-12.69	56.96	44.27	74.00	29.73	PASS	V	PK
11	9299.4200	-7.95	51.82	43.87	74.00	30.13	PASS	V	PK
12	13734.7156	-1.72	50.84	49.12	74.00	24.88	PASS	V	PK

Mode	Mode:		302.11 n(HT4	0) Transmitti	ng	Channe	el:	2452MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1208.2208	0.82	42.05	42.87	74.00	31.13	PASS	Н	PK
2	1943.6944	4.26	39.92	44.18	74.00	29.82	PASS	Н	PK
3	3390.0260	-20.16	58.39	38.23	74.00	35.77	PASS	Н	PK
4	6538.2359	-12.74	57.21	44.47	74.00	29.53	PASS	Н	PK
5	10247.4832	-6.81	51.03	44.22	74.00	29.78	PASS	Н	PK
6	14308.7539	-0.29	49.76	49.47	74.00	24.53	PASS	Н	PK
7	1222.4222	0.86	42.23	43.09	74.00	30.91	PASS	V	PK
8	1813.2813	3.38	40.60	43.98	74.00	30.02	PASS	V	PK
9	3386.0257	-20.14	58.05	37.91	74.00	36.09	PASS	V	PK
10	5760.1840	-13.71	56.39	42.68	74.00	31.32	PASS	V	PK
11	9160.4107	-8.20	51.97	43.77	74.00	30.23	PASS	V	PK
12	13755.7170	-1.69	50.70	49.01	74.00	24.99	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.

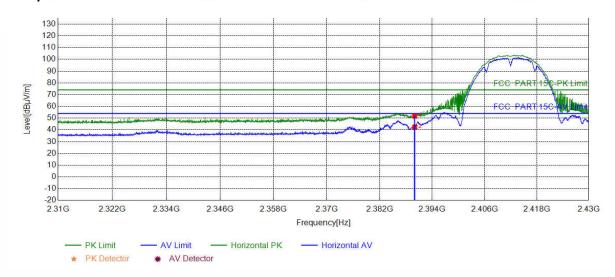


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#### Restricted bands:

For SISO mode, the Antenna 1 was the worst case, only the worst case was recorded in the report.





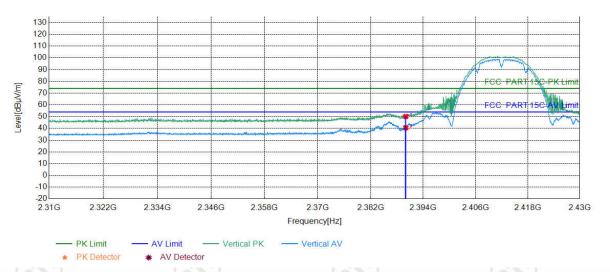
	Suspec	ted List								
7	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	46.02	51.79	74.00	22.21	PASS	Horizontal	PK
	2	2390.0000	5.77	36.62	42.39	54.00	11.61	PASS	Horizontal	AV
		~ ~ /		100	•		7		A 3	



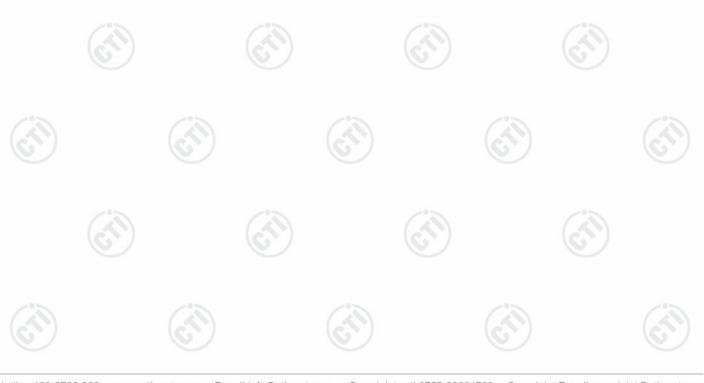




Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:	SISO_ANT1		



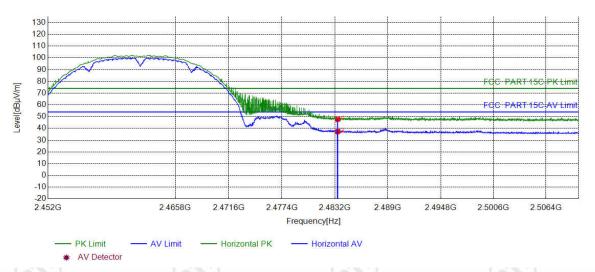
	Suspec	Suspected List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2390.0000	5.77	44.36	50.13	74.00	23.87	PASS	Vertical	PK
-	2	2390.0000	5.77	34.76	40.53	54.00	13.47	PASS	Vertical	AV



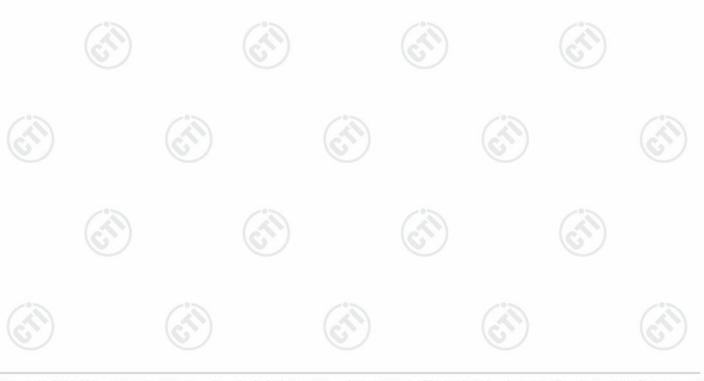




Mode: 802.11 b Transmitting		Channel:	2462MHz	
Remark:	SISO_ANT1			



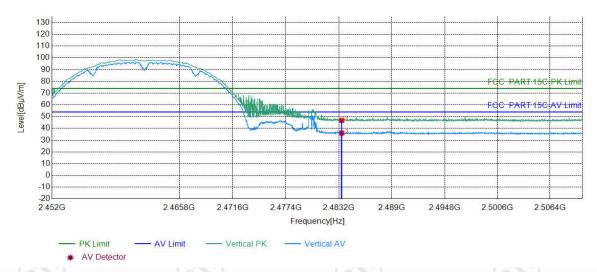
	Suspec	Suspected List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	41.20	47.77	74.00	26.23	PASS	Horizontal	PK
	2	2483.5000	6.57	30.70	37.27	54.00	16.73	PASS	Horizontal	AV



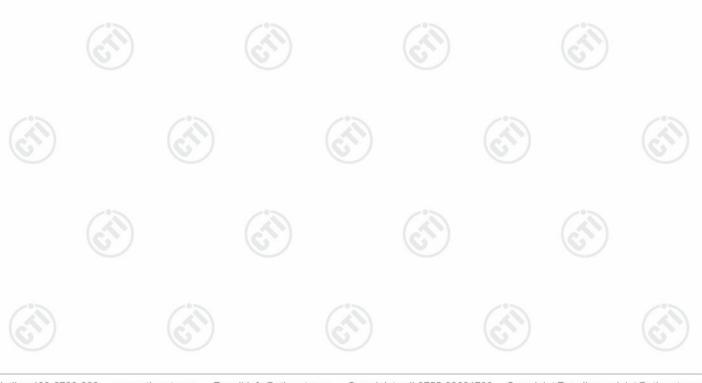




Mode:	802.11 b Transmitting	Channel:	2462MHz
Remark: SISO_ANT1			



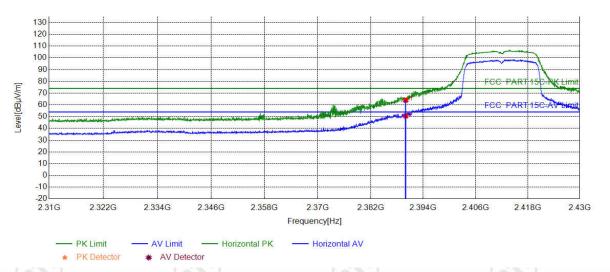
	Suspec	Suspected List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	40.26	46.83	74.00	27.17	PASS	Vertical	PK
	2	2483.5000	6.57	29.44	36.01	54.00	17.99	PASS	Vertical	AV







Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	SISO_ANT1		



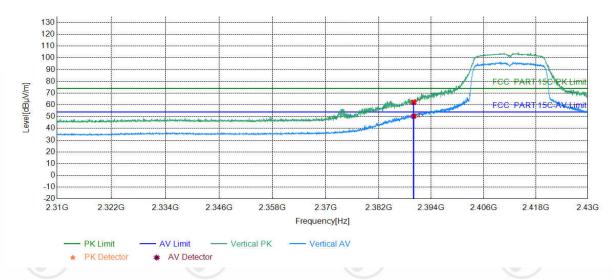
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	58.27	64.04	74.00	9.96	PASS	Horizontal	PK
	2	2390.0000	5.77	44.90	50.67	54.00	3.33	PASS	Horizontal	AV







Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	SISO_ANT1		



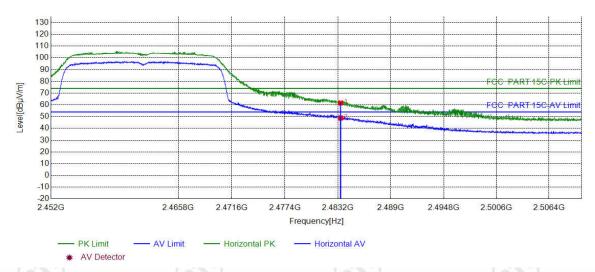
	Suspecte	d List								
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/ m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	56.53	62.30	74.00	11.70	PASS	Vertical	PK
	2	2390.0000	5.77	44.59	50.36	54.00	3.64	PASS	Vertical	AV



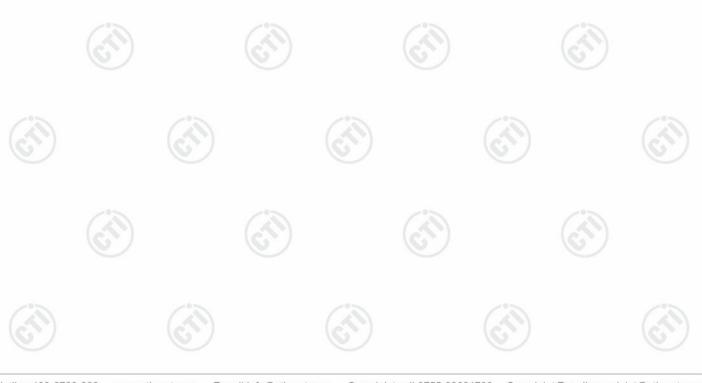




Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	SISO_ANT1		



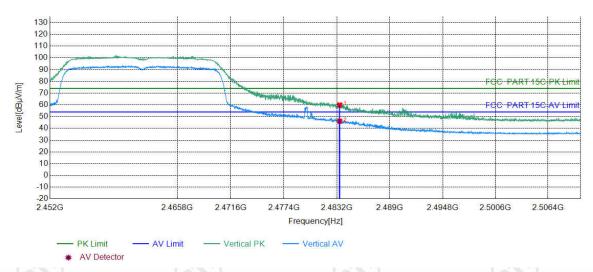
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	55.08	61.65	74.00	12.35	PASS	Horizontal	PK
-	2	2483.5000	6.57	42.27	48.84	54.00	5.16	PASS	Horizontal	AV



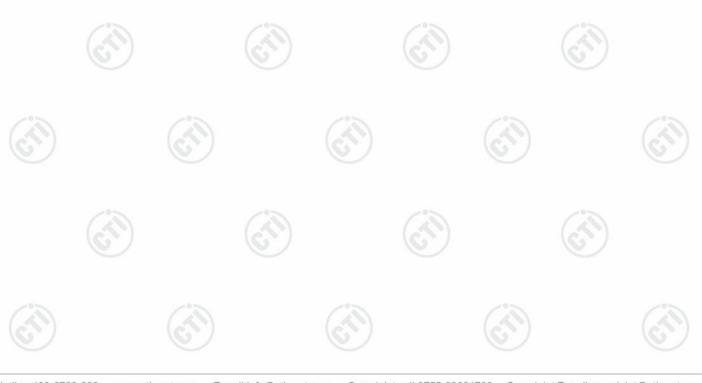




Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	SISO_ANT1		



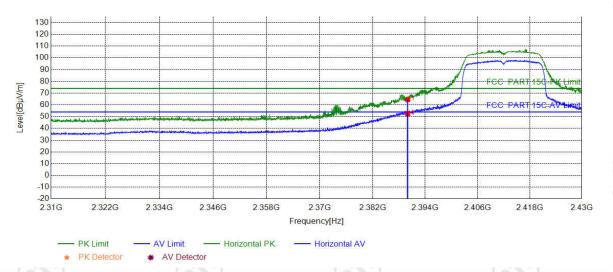
	Suspe	cted List								
01	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	53.39	59.96	74.00	14.04	PASS	Vertical	PK
	2	2483.5000	6.57	39.57	46.14	54.00	7.86	PASS	Vertical	AV



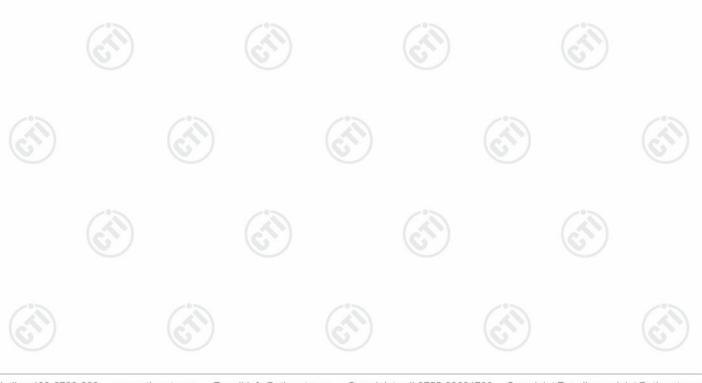




Mode:	802.11 n(HT20) Transmitting	Channel:	2412MHz
Remark:	SISO_ANT1		



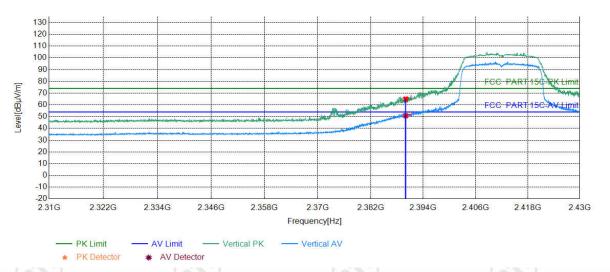
	Suspected List										
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
b	1	2390.0000	5.77	58.76	64.53	74.00	9.47	PASS	Horizontal	PK	
-	2	2390.0000	5.77	46.71	52.48	54.00	1.52	PASS	Horizontal	AV	







Mode:	802.11 n(HT20) Transmitting	Channel:	2412MHz
Remark:	SISO_ANT1		



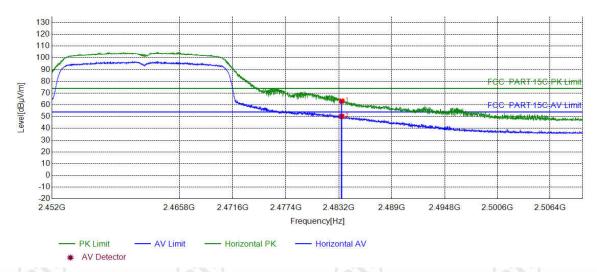
Suspected List										
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	59.19	64.96	74.00	9.04	PASS	Vertical	PK
	2	2390.0000	5.77	45.05	50.82	54.00	3.18	PASS	Vertical	AV



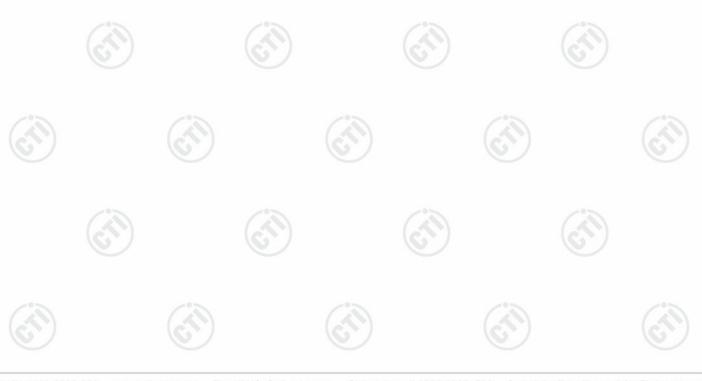




Mode:	802.11 n(HT20) Transmitting	Channel:	2462MHz
Remark:	SISO_ANT1		



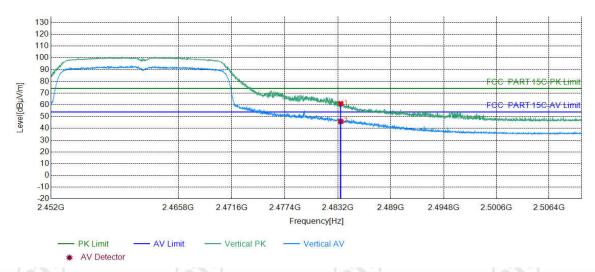
Suspected List										
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	56.66	63.23	74.00	10.77	PASS	Horizontal	PK
	2	2483.5000	6.57	43.65	50.22	54.00	3.78	PASS	Horizontal	AV



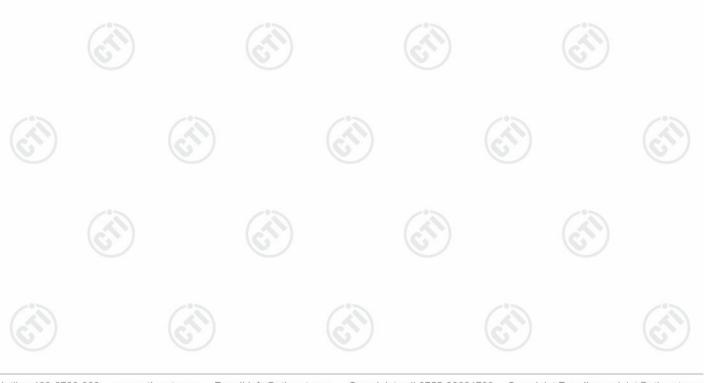




Mode:	802.11 n(HT20) Transmitting	Channel:	2462MHz
Remark:	SISO_ANT1		



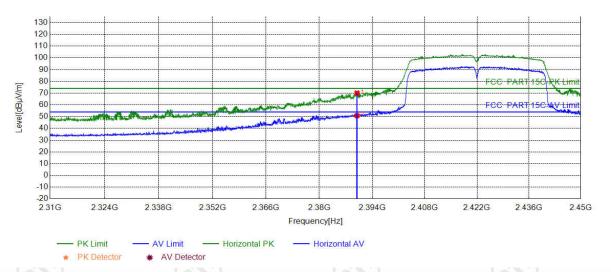
	Suspec	ted List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	54.53	61.10	74.00	12.90	PASS	Vertical	PK
-	2	2483.5000	6.57	39.36	45.93	54.00	8.07	PASS	Vertical	AV







Mode:	802.11 n(HT40) Transmitting	Channel:	2422MHz
Remark:	SISO_ANT1		



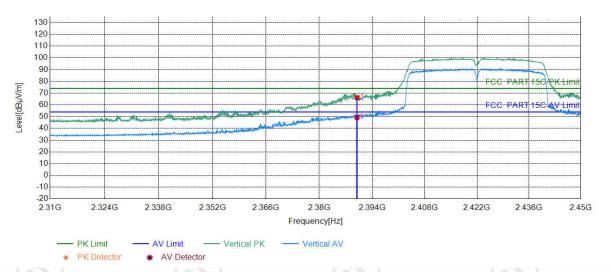
	Suspec	ted List								
101	МО	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	64.34	70.11	74.00	3.89	PASS	Horizontal	PK
-	2	2390.0000	5.77	45.06	50.83	54.00	3.17	PASS	Horizontal	AV



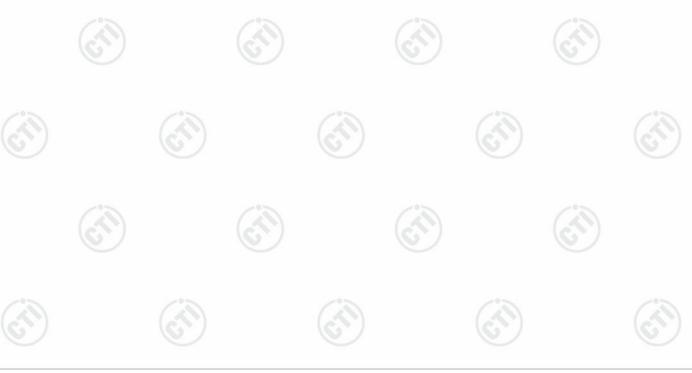




Mode:	802.11 n(HT40) Transmitting	Channel:	2422MHz
Remark:	SISO_ANT1		



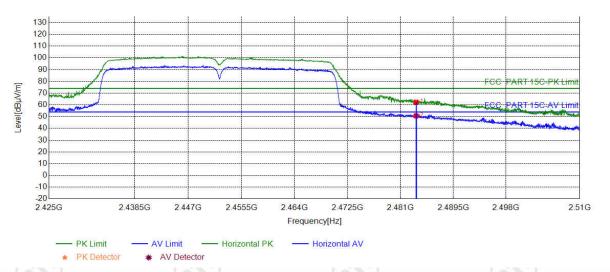
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	60.47	66.24	74.00	7.76	PASS	Vertical	PK
1910	2	2390.0000	5.77	43.61	49.38	54.00	4.62	PASS	Vertical	AV







Mode:	802.11 n(HT40) Transmitting	Channel:	2452MHz
Remark:	SISO_ANT1		



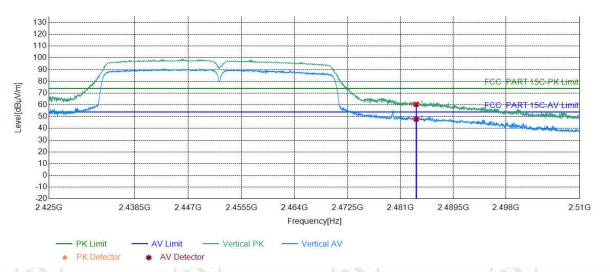
Suspected List										
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	55.72	62.29	74.00	11.71	PASS	Horizontal	PK
-	2	2483.5000	6.57	44.14	50.71	54.00	3.29	PASS	Horizontal	AV







Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	SISO_ANT1		



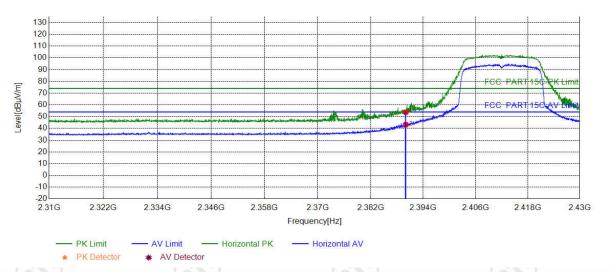
Suspected List										
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
b	1	2483.5000	6.57	53.76	60.33	74.00	13.67	PASS	Vertical	PK
-	2	2483.5000	6.57	41.20	47.77	54.00	6.23	PASS	Vertical	AV



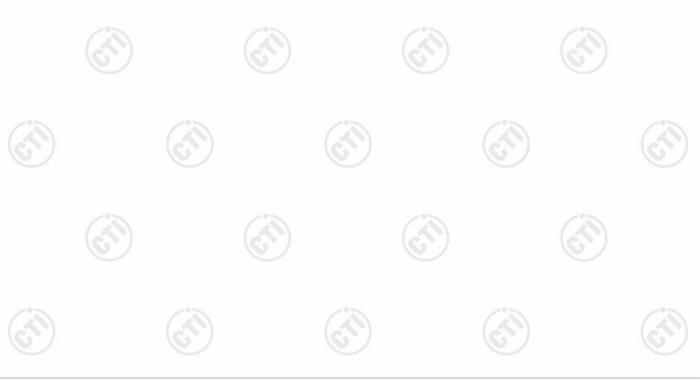




Mode: 802.11 n(HT20) Transmitting		Channel:	2412
Remark:	MIMO		



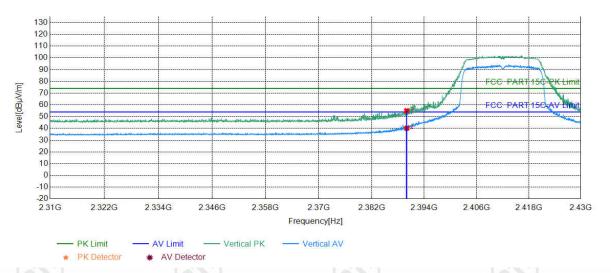
Suspected List										
101	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	47.98	53.75	74.00	20.25	PASS	Horizontal	PK
	2	2390.0000	5.77	37.43	43.20	54.00	10.80	PASS	Horizontal	AV



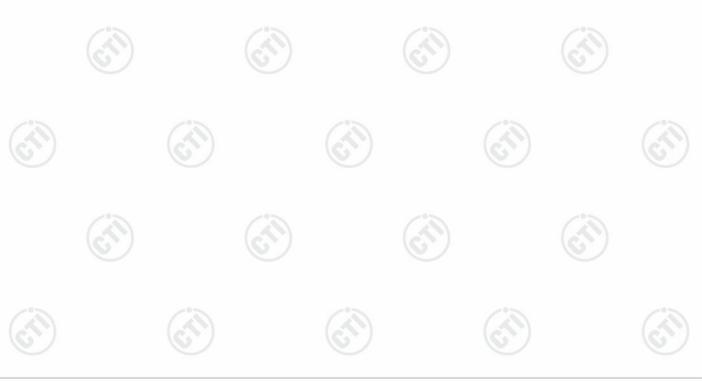




Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:	MIMO		



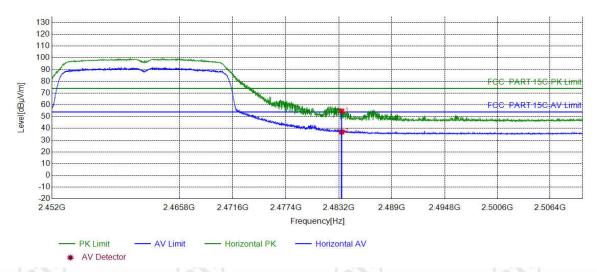
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	49.29	55.06	74.00	18.94	PASS	Vertical	PK
	2	2390.0000	5.77	34.35	40.12	54.00	13.88	PASS	Vertical	AV







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



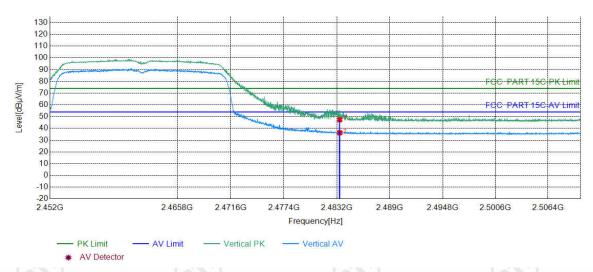
	Suspe	cted List								
101	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2483.5000	6.57	48.15	54.72	74.00	19.28	PASS	Horizontal	PK
	2	2483.5000	6.57	30.42	36.99	54.00	17.01	PASS	Horizontal	AV



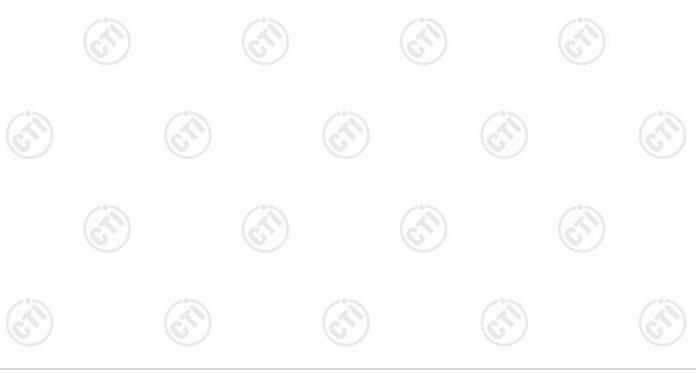




Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:	MIMO		



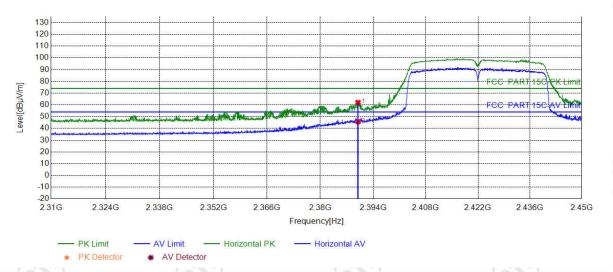
	Suspe	cted List								
0.1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2483.5000	6.57	40.76	47.33	74.00	26.67	PASS	Vertical	PK
	2	2483.5000	6.57	29.74	36.31	54.00	17.69	PASS	Vertical	AV



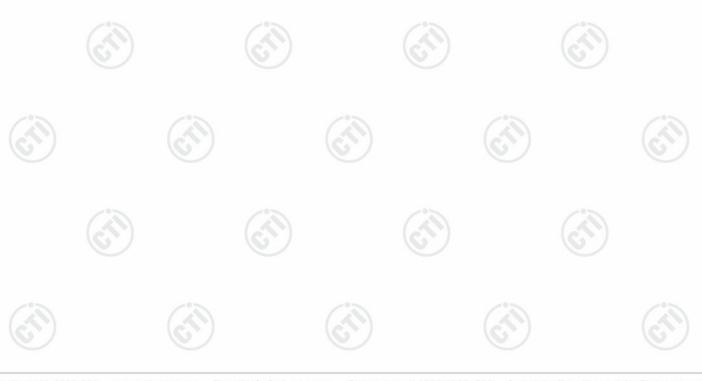




Mode: 802.11 n(HT40) Transmitting		Channel:	2422
Remark:	MIMO		



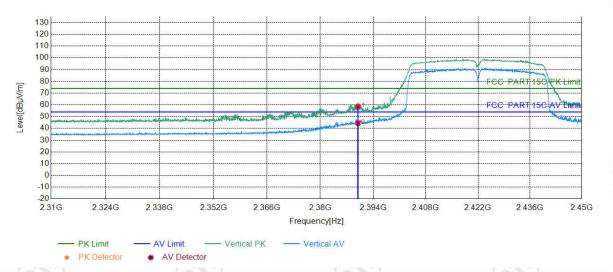
Suspected List										
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	56.35	62.12	74.00	11.88	PASS	Horizontal	PK
	2	2390.0000	5.77	39.89	45.66	54.00	8.34	PASS	Horizontal	AV







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



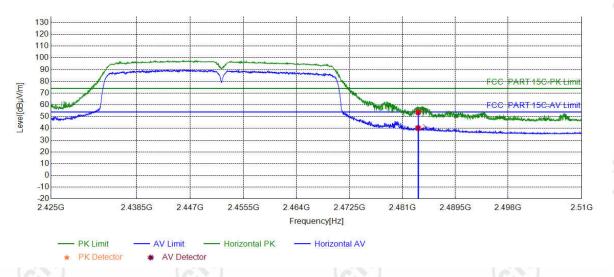
	Suspe	cted List								
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2390.0000	5.77	52.92	58.69	74.00	15.31	PASS	Vertical	PK
-	2	2390.0000	5.77	38.69	44.46	54.00	9.54	PASS	Vertical	AV



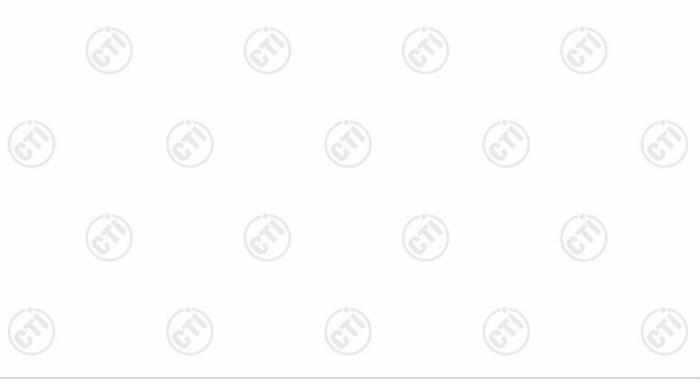




Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	MIMO		



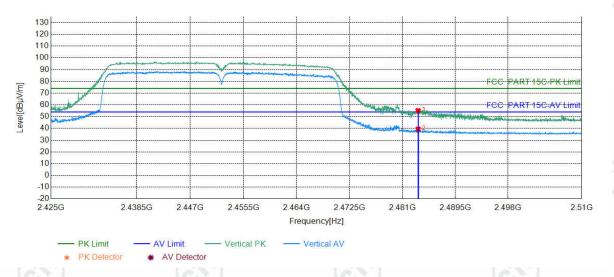
	Suspected List									
101	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2483.5000	6.57	47.00	53.57	74.00	20.43	PASS	Horizontal	PK
	2	2483.5000	6.57	33.62	40.19	54.00	13.81	PASS	Horizontal	AV







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



	Suspected List									
10	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	2483.5000	6.57	48.57	55.14	74.00	18.86	PASS	Vertical	PK
-	2	2483.5000	6.57	32.76	39.33	54.00	14.67	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













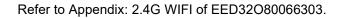








# 8 Appendix A















































































































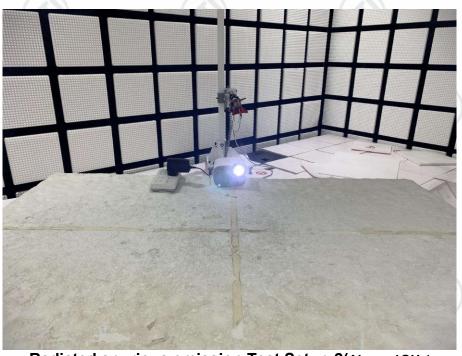
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## 9 PHOTOGRAPHS OF TEST SETUP

Test Model No.: OVO-U5



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.EED32O80066301 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.

