

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Compliance Laboratory Shenzhen, Guangdong, China.

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No...... MTEB23080139 -R1

FCC ID.....: A4C-10012A

Compiled by

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Date of issue August 15,2023

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Address:

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... RM ACQUISITION LLC

Test specification:

Standard FCC Part 15.247

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description GPS Device

Trade Mark: RAND MSNALLY

Manufacturer SHEN ZHEN APICAL TECHNOLOGY CO., LTD

Model/Type reference: TND750

Listed Models N/A

Modulation Type: CCK/DSSS/ OFDM

Operation Frequency...... From 2412 - 2462MHz

DC3.7V by Battery

Rating DC 5V(by Car Charger)

DC 5V (by USB Port)

Hardware version T85-MT8176-MIAN-01B-1

Result: PASS

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TEST REPORT

Equipment under Test : GPS Device

Model /Type : TND750

Listed Models : N/A

Remark N/A.

Applicant : RM ACQUISITION LLC

Address : 8770 W. Bryn Mawr Avenue, Chicago, Illinois, United States, 60631

Manufacturer : SHEN ZHEN APICAL TECHNOLOGY CO., LTD

Address : 9/F,B Building, Tinghua Unis Infoport, Langshan RD, North district,

Hi-tech Industrial Park, Nanshan, Shenzhen

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-08-15	Initial Issue	Alisa Luo

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2 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices KDB558074 D01 v05r02: Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

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3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2023.08.09
Testing commenced on	:	2023.08.10
Testing concluded on	:	2023.08.15

3.2 Product Description

Product Name:	GPS Device
Model/Type reference:	TND750
Power Supply:	DC3.7V by Battery DC 5V(by Car Charger) DC 5V (by USB Port)
Testing sample ID:	MTYP02084
WIFI:	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20) /802.11n(H40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11b/802.11g/802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	PFC Antenna
Antenna gain:	1.61dBi

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		

DC 5V (by USB Port)

DC 5V (by USB Port)

3.4 Short description of the Equipment under Test (EUT)

This is a GPS Device.

For more details, refer to the user's manual of the EUT.

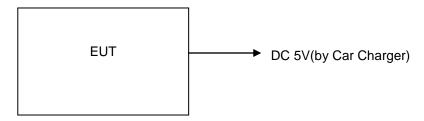
3.5 EUT operation mode

The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

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Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

^{*:} declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	Adapter	MDY-08-EH	1	1
AE 2	1	1	1	1

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1		PFC Antenna	2.4 – 2.5 GHz		1.61dBi
Antenna 2					
		_	-	_	

^{*:} declared by the applicant.

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2A33W-D22** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

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3.11 Modifications

No modifications were implemented to meet testing criteria.

3.12 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- $\ensuremath{\bigcirc}$ supplied by the manufacturer
- Supplied by the lab

ADAPTER	M/N:	MDY-08-EH
	Manufacturer:	Xiaomi Communications Co.,Ltd

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	24 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

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Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

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4.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	6.5Mbps	3/6/9
	11b/DSSS	1 Mbps	1/11
Band Edge	11g/OFDM	6 Mbps	1/11
Dana Lago	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	6.5Mbps	3/9

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.6 Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	100093	/	2023/03/17	1 Year
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2023/03/17	1 Year
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2023/03/17	1 Year
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2023/03/17	1 Year
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2023/03/17	1 Year
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2023/03/17	1 Year
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2023/03/17	1 Year
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2023/03/17	1 Year
9	Horn antenna	R&S	OBH100400	26999002	/	2023/03/17	1 Year
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE- 3.7.21	2023/03/17	1 Year
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2023/03/17	1 Year
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2023/03/17	1 Year
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2023/03/17	1 Year
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2023/03/17	1 Year
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2023/03/17	1 Year
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2023/03/17	1 Year
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2023/03/17	1 Year
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2023/03/17	1 Year
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2023/03/17	1 Year

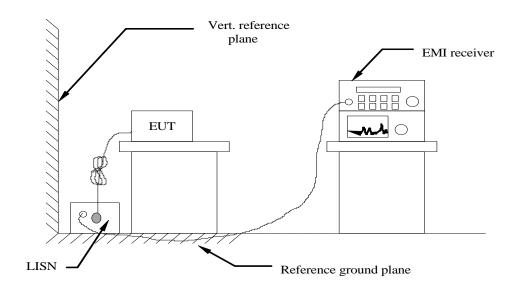
Note: The Cal.Interval was one year.

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5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)		
Trequency range (IVII 12)	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.			

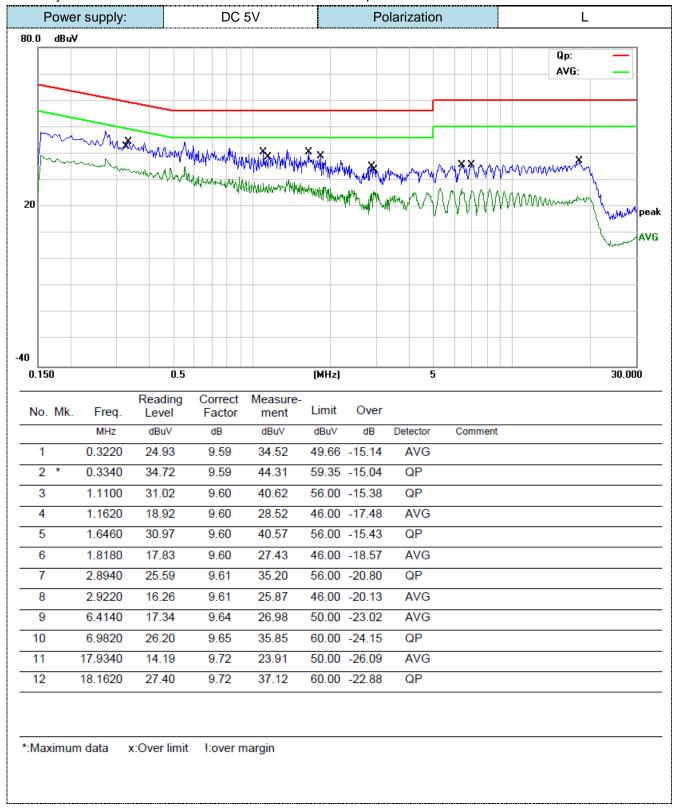
TEST RESULTS

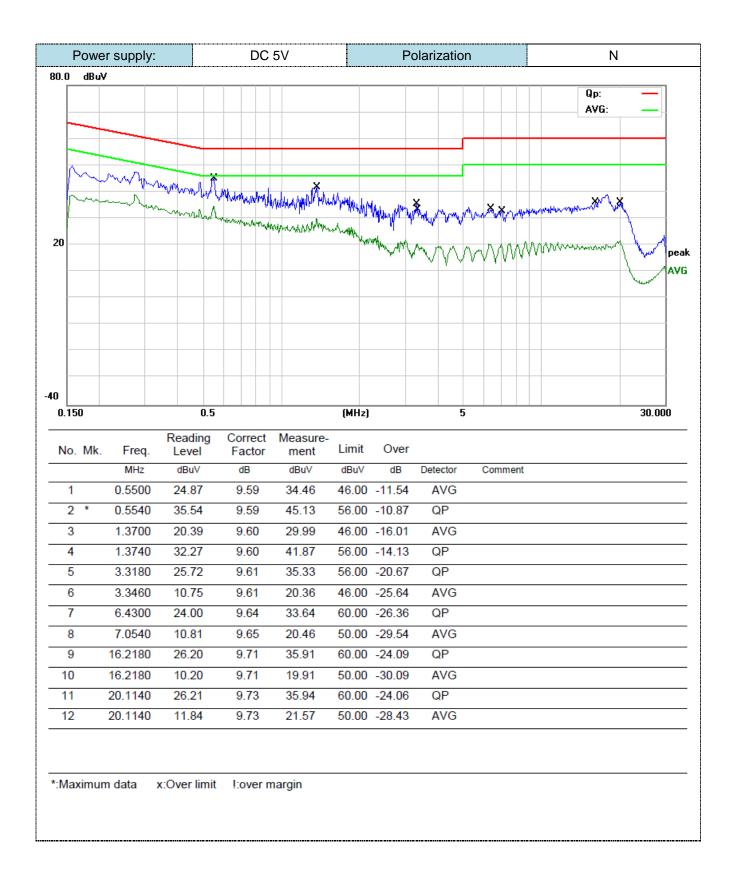
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TEST RESULTS

Remark:

1. WIFI modes were test at 802.11b/802.11g/802.11n (H20) /802.11n (H40) (Low, Middle, and High channel); only the worst result of 802.11b Middle Channel was reported as below:



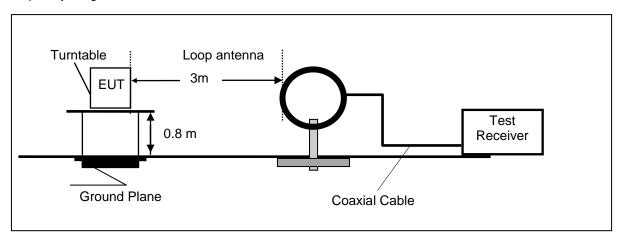


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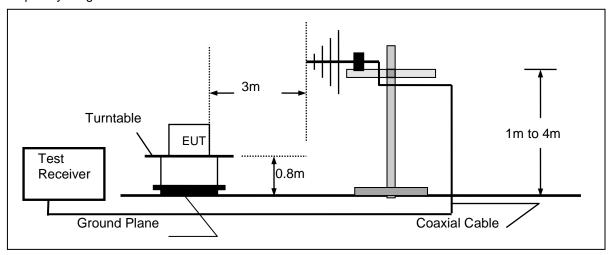
5.2 Radiated Emission

TEST CONFIGURATION

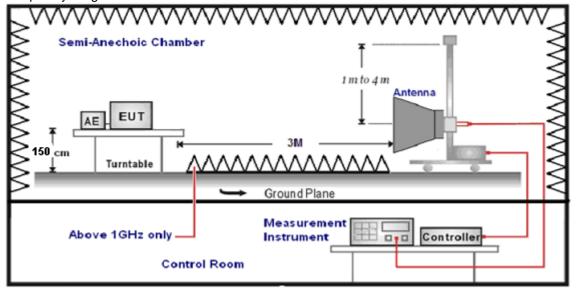
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

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1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.

- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz Active Loop Antenna		3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range Test Receiver/Spectrum Setting		Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

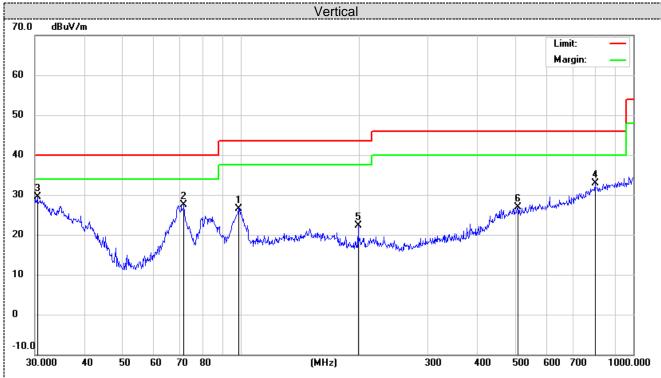
The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Remark:

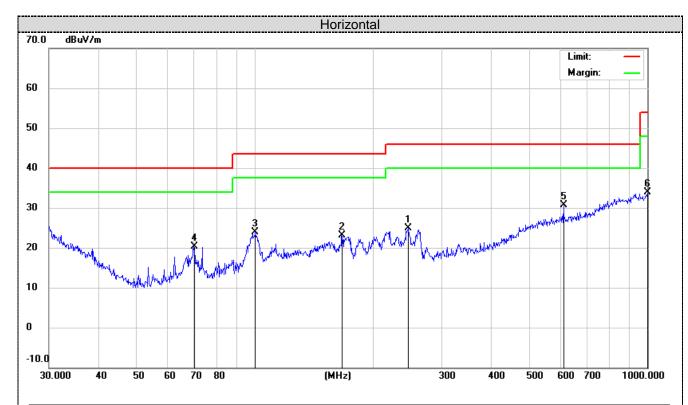
- 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. 802.11b/802.11g/802.11n (H20)/ 802.11n (H40)all have been tested, only worse case 802.11b mode is reported
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- 4. Remark: Result=Reading value+Factor

For 30MHz-1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		98.8326	13.25	13.17	26.42	43.50	-17.08	QP	100	158	
2		71.8320	17.97	9.45	27.42	40.00	-12.58	QP	100	88	
3	*	30.4238	8.87	20.61	29.48	40.00	-10.52	QP	100	29	
4		798.9797	5.04	27.87	32.91	46.00	-13.09	QP	100	254	
5		199.2855	7.21	15.18	22.39	43.50	-21.11	QP	100	120	
6		508.2582	4.19	22.79	26.98	46.00	-19.02	QP	100	224	

^{*:}Maximum data x:Over limit !:over margin



No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		246.8149	11.01	13.89	24.90	46.00	-21.10	QP	200	158	
2		166.6514	5.94	17.08	23.02	43.50	-20.48	QP	200	114	
3		100.5806	10.19	13.66	23.85	43.50	-19.65	QP	200	235	
4		70.0903	10.99	9.31	20.30	40.00	-19.70	QP	200	203	
5	*	612.0642	6.84	23.96	30.80	46.00	-15.20	QP	200	214	
6		1000.000	3.98	30.00	33.98	54.00	-20.02	QP	200	98	

^{*:}Maximum data x:Over limit !:over margin

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For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20)/ 802.11n (H40)all have been tested, only worse case 802.11b mode is reported

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type			
(100)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	1 3 PC			
802.11b-2412MHz												
V	4824	54.32	30.28	7.01	36.5	55.11	74	18.89	PK			
V	4824	42.24	30.28	7.01	36.5	43.03	54	10.97	AV			
Н	4824	53.29	30.28	7.01	36.5	54.08	74	19.92	PK			
Н	4824	44.21	30.28	7.01	36.5	45	54	9	AV			
V	7236	42.51	36.59	8.91	35.3	52.71	74	21.29	PK			
V	7236	30.49	36.59	8.91	35.3	40.69	54	13.31	AV			
Н	7236	43.66	36.59	8.91	35.3	53.86	74	20.14	PK			
Н	7236	31.79	36.59	8.91	35.3	41.99	54	12.01	AV			
802.11b -2437MHz												
V	4874	56.45	30.36	7.62	36.5	57.93	74	16.07	PK			
V	4874	42.09	30.36	7.62	36.5	43.57	54	10.43	AV			
Н	4874	57.56	30.36	7.62	36.5	59.04	74	14.96	PK			
Н	4874	42.66	30.36	7.62	36.5	44.14	54	9.86	AV			
V	7311	44.32	36.61	8.84	35.3	54.47	74	19.53	PK			
V	7311	31.37	36.61	8.84	35.3	41.52	54	12.48	AV			
Н	7311	42.26	36.61	8.84	35.3	52.41	74	21.59	PK			
Н	7311	29.22	36.61	8.84	35.3	39.37	54	14.63	AV			
				802.11	b -2462MF	łz						
V	4924	53.7	30.43	7.94	36.2	55.87	74	18.13	PK			
V	4924	42.66	30.43	7.94	36.2	44.83	54	9.17	AV			
Н	4924	55.82	30.43	7.94	36.2	57.99	74	16.01	PK			
Н	4924	42.28	30.43	7.94	36.2	44.45	54	9.55	AV			
V	7386	43.98	36.78	8.45	35.3	53.91	74	20.09	PK			
V	7386	31.99	36.78	8.45	35.3	41.92	54	12.08	AV			
Н	7386	41.04	36.78	8.45	35.3	50.97	74	23.03	PK			
Н	7386	31.54	36.78	8.45	35.3	41.47	54	12.53	AV			

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

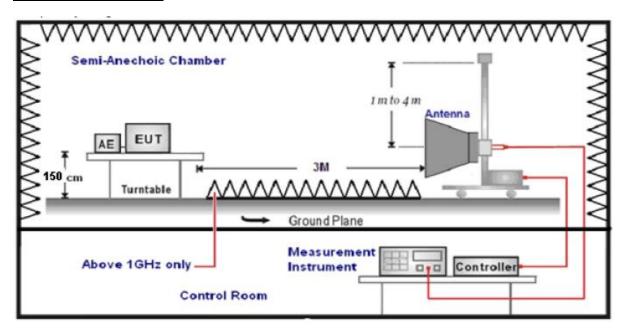
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5.3 Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed..
- 5. The distance between test antenna and EUT was 3 meter:
- 6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

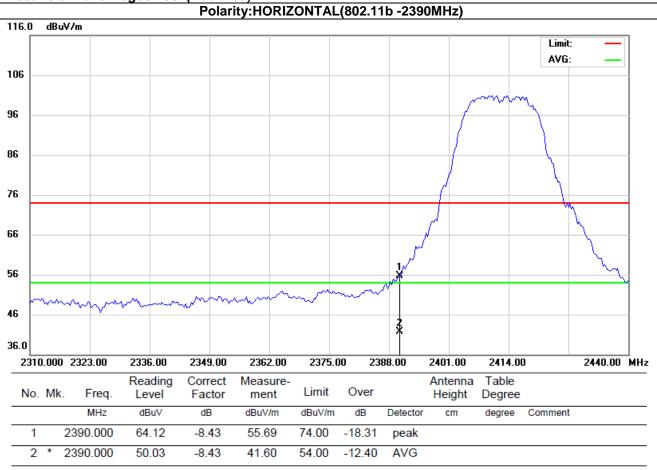
LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

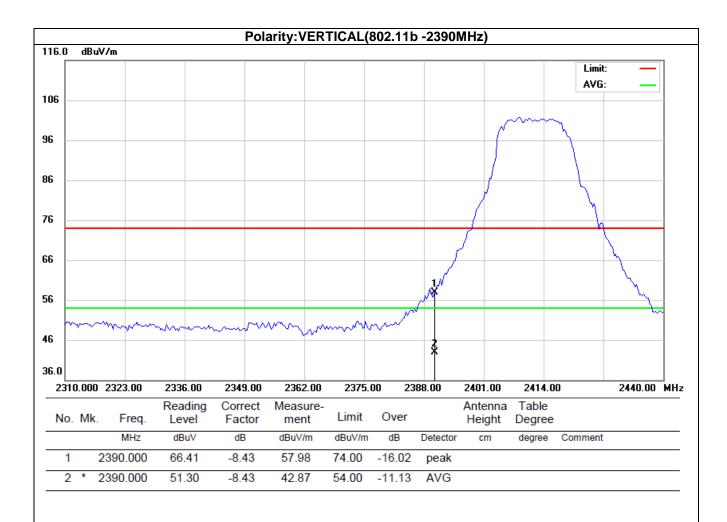
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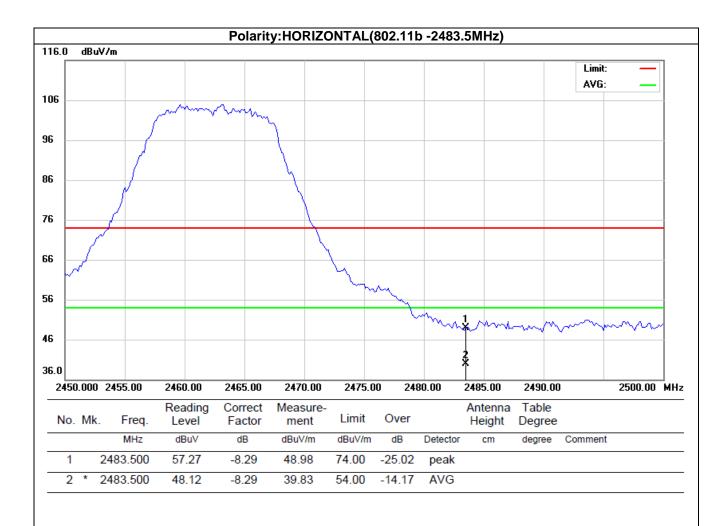
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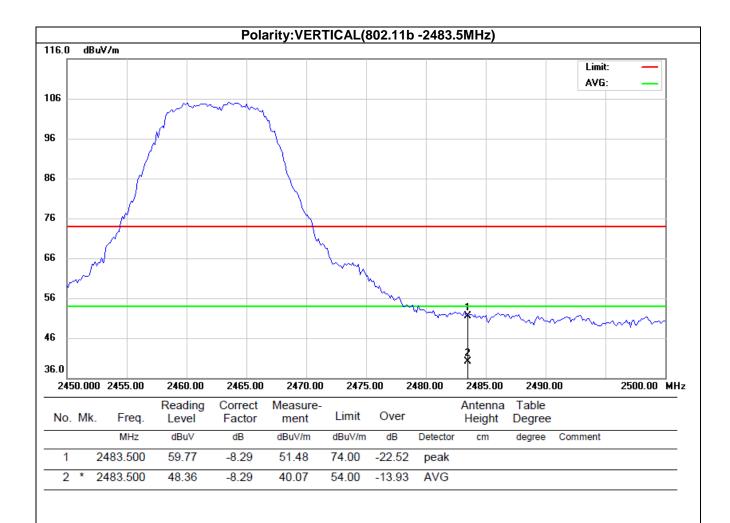
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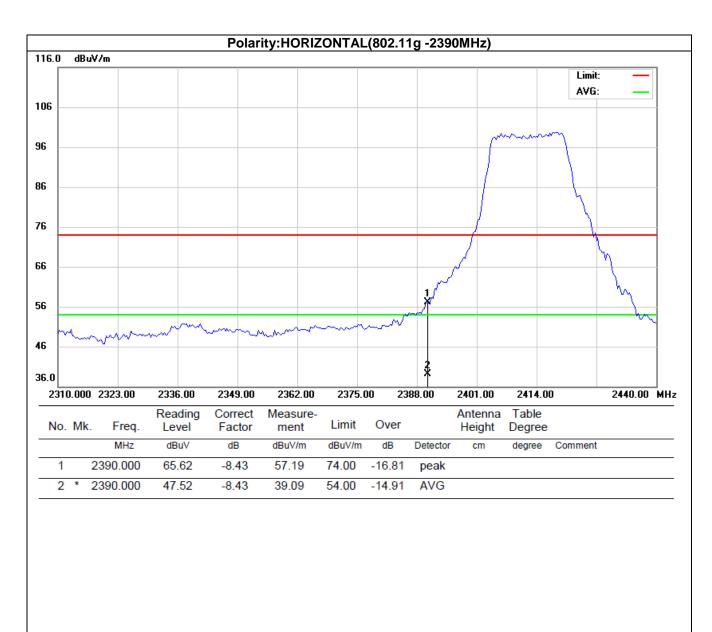
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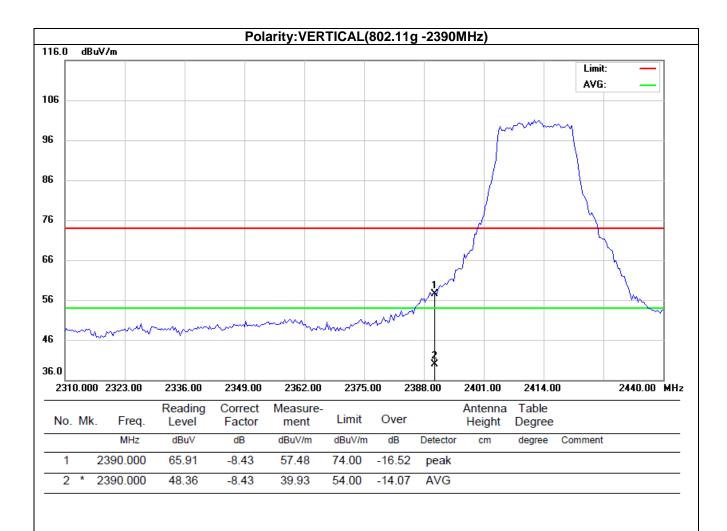
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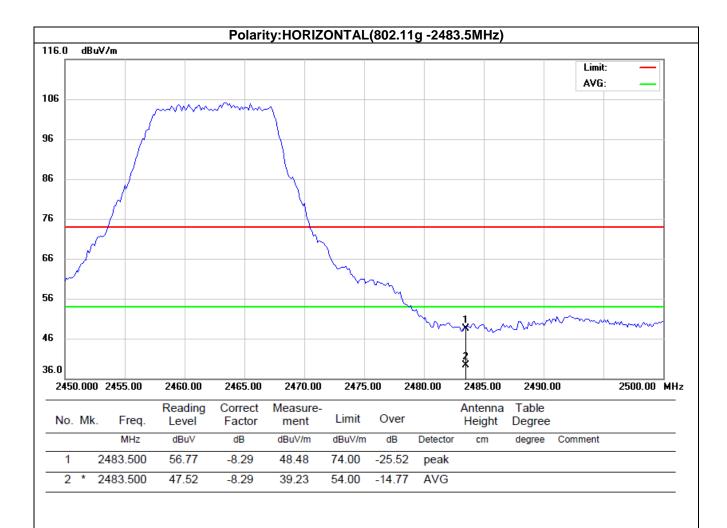
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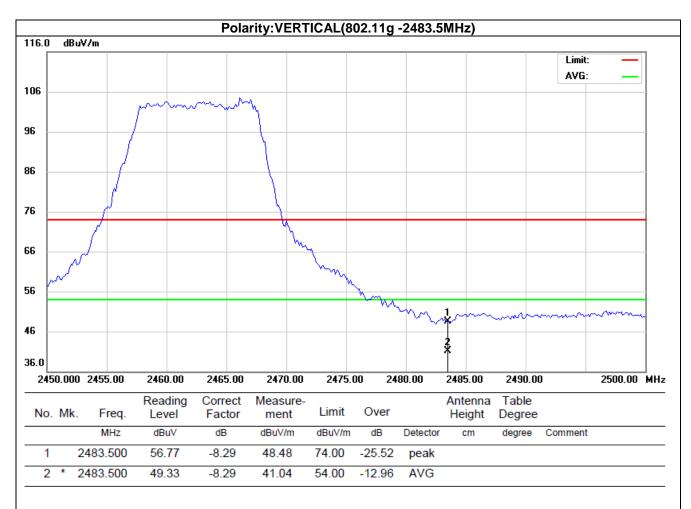


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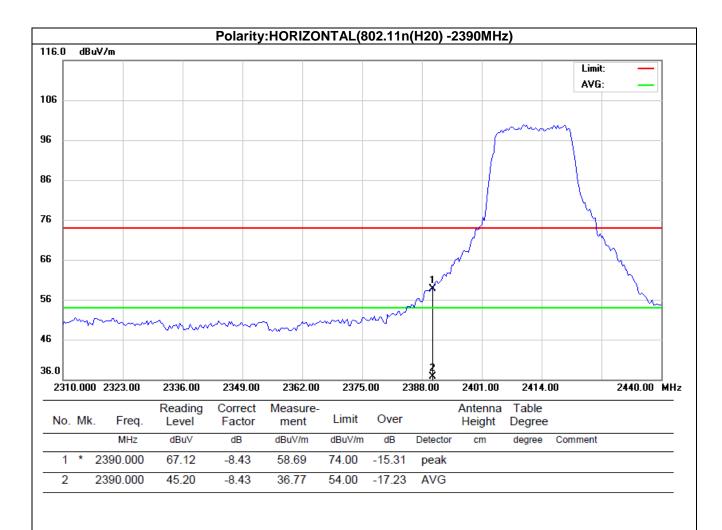


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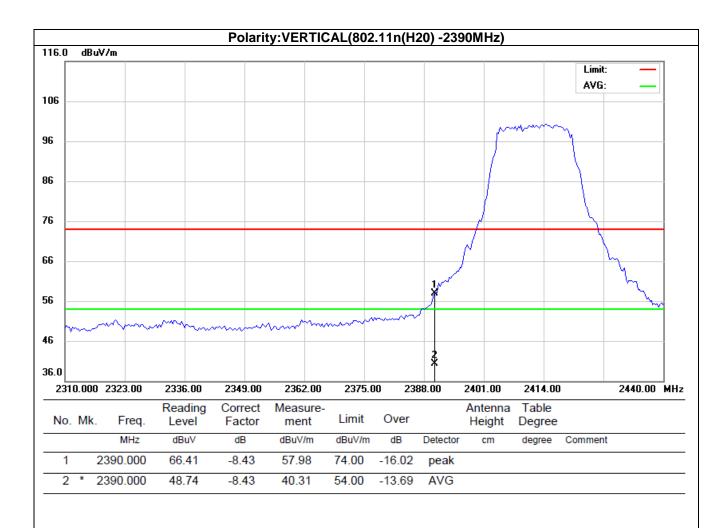
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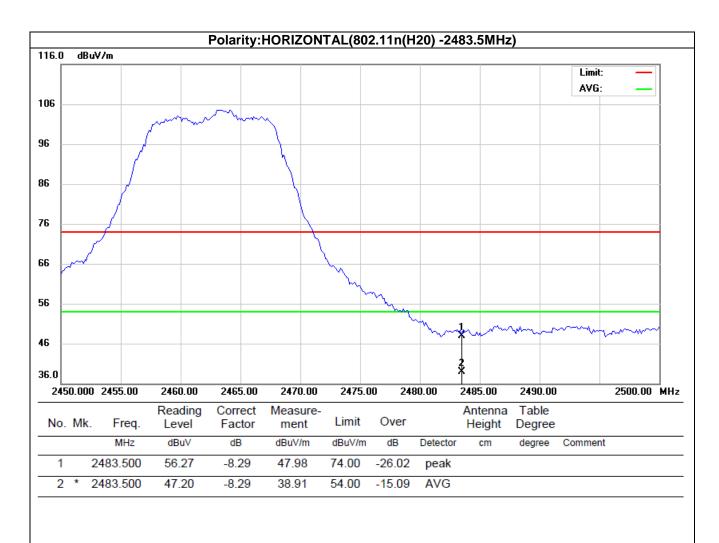
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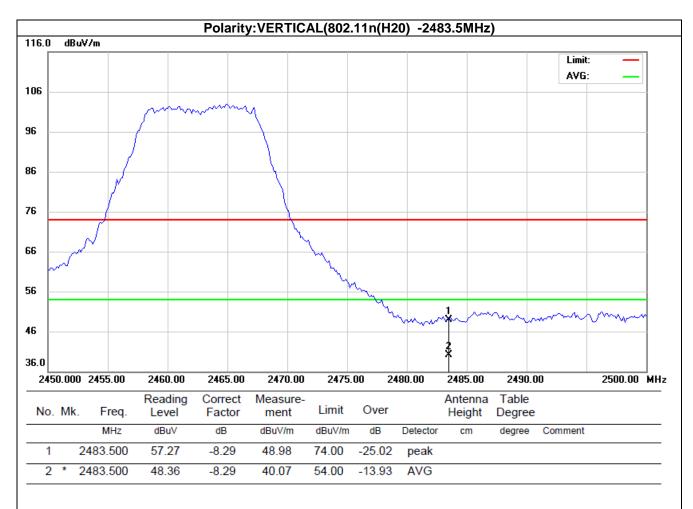


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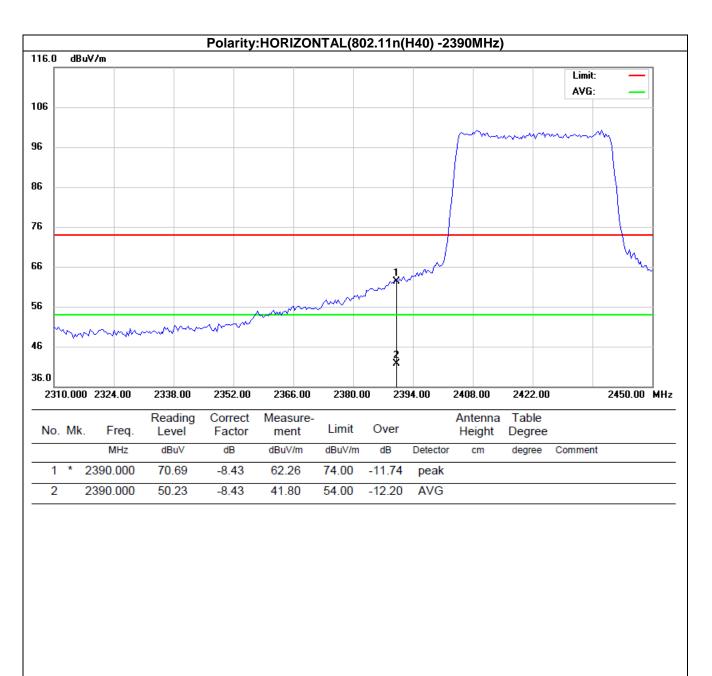
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*:Maximum data x:Over limit !:over margin



^{*:}Maximum data x:Over limit !:over margin

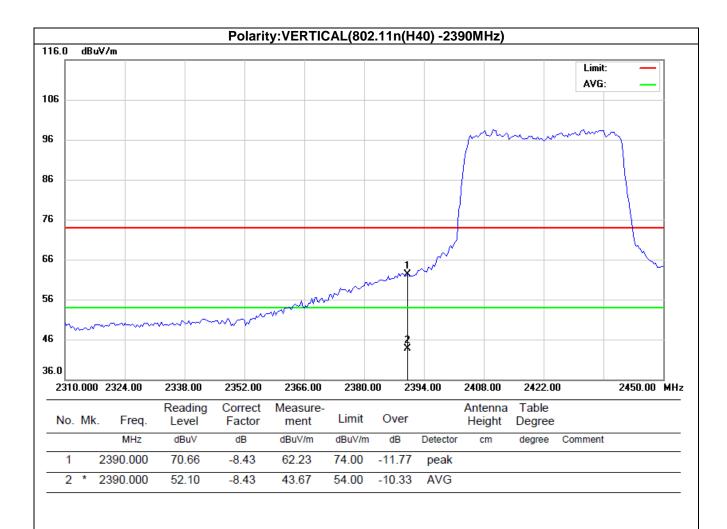


*:Maximum data

x:Over limit

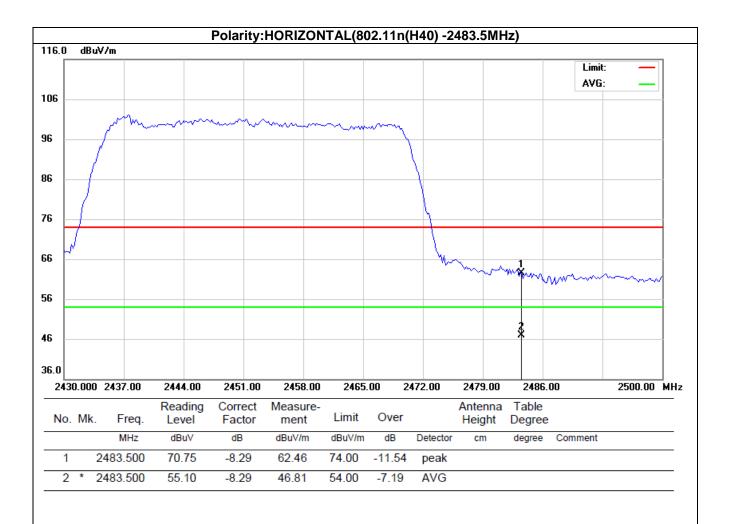
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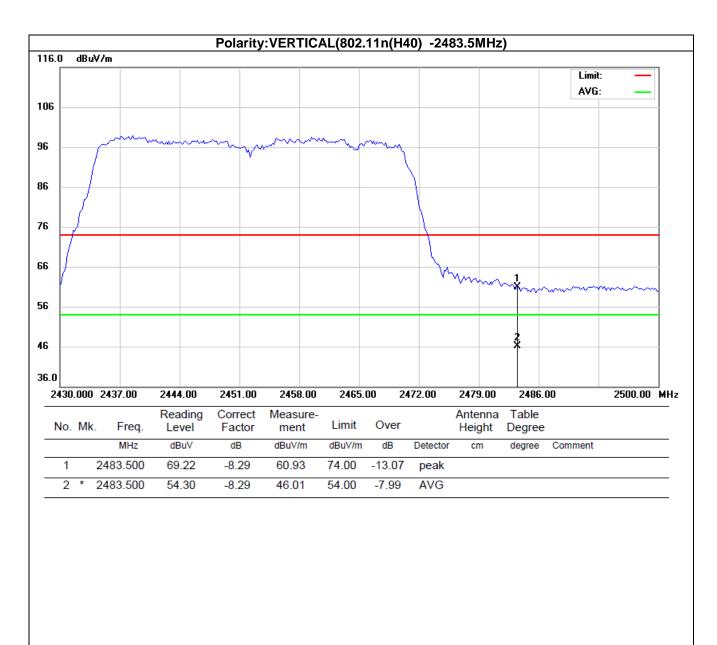
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^{*:}Maximum data x:Over limit !:over margin

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*:Maximum data

x:Over limit

!:over margin

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5.4 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The directional gains of antenna used for transmitting is 2dBi, and the antenna is an Internal antenna with ipex connector connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT







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7 Photos of	oft	h e	ΕU	Τ
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See related photo report.