

# **TEST REPORT**

Report No.: BCTC2412356516-2E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi module

Test Model: SKI.WB800D80U.2\_D40L

Tested Date: 2024-12-09 to 2024-12-30

Issued Date: 2024-12-30

Shenzhen BCTC Testing Co., Ltd.



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## FCC ID: 2AYHE-2404B

Product Name: WiFi module

Trademark: Reolink

Model/Type reference: SKI.WB800D80U.2\_D40L

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET

MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET

MONG KOK KL HONG KONG

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng,

Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2024-12-09

Sample tested Date: 2024-12-09 to 2024-12-30

Issue Date: 2024-12-30

Report No.: BCTC2412356516-2E

Test Standards: FCC Part15.247 ANSI C63.10-2013

Test Results: PASS

Remark: This is WIFI-2.4GHz band radio test report.

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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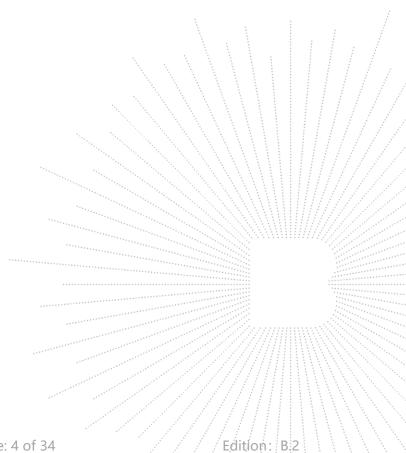
(Note: N/A means not applicable)

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## 1. Version

Report No.	Issue Date	Description	Approved
BCTC2412356516-2E	2024-12-30	Original	Valid



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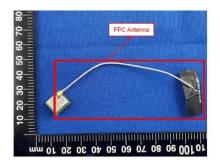
## 2. Test Summary

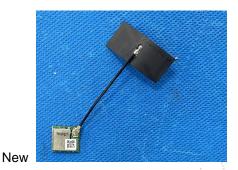
The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	Radiated Spurious Emission	15.247 (d)	PASS
3	Restricted Band of Operation	15.205	PASS
4	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
5	Antenna Requirement	15.203	PASS

Note: According to the following changes in the product, change the antenna,

Therefore, conducted emission and radiation emission, radiation stray and radiation sideband tests were only carried out in this report on the original report (BL-SZ2450651-602)





Original:

Note: According to the following changes in the original test report BL-SZ2450651-602), no changes have been made to the product.

Only updated test instruments, conducted emission, radiation emission, radiation sideband, radiation spurious, EUT photos, etc.

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## 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

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#### 4. Product Information And Test Setup

#### 4.1 Product Information

Model/Type reference: SKI.WB800D80U.2\_D40L

Model differences: N/A
Hardware Version: N/A
Software Version: N/A

Operation Frequency: 802.11b/g/n20/ax20MHz:2412~2462 MHz 802.11n40/ax40MHz:2422~2452 MHz

802.11b:11/5.5/2/1 Mbps

Bit Rate of Transmitter 802.11g:54/48/36/24/18/12/9/6Mbps

802.11n Up to 150Mbps 802.11ax Up to 240Mbps

Type of Modulation: OFDM/DSSS

Number Of Channel 802.11b/g/n20/ax20MHz:11 CH 802.11n40/ax40MHz: 7 CH

Antenna installation: FPC antenna

2.6 dBi Remark:

Antenna Gain: 

The antenna gain of the product comes from the antenna report provided by the

customer, and the test data is affected by the customer information.

☐ The antenna gain of the product is provided by the customer, and the test data

is affected by the customer information.

Ratings: DC 3.3V

#### 4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

#### 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	WiFi module	Reolink	SKI.WB800D8 0U.2_D40L	N/A	EUT
E-2	PC	Lenovo	ThinkPad S2		\\\ <del>  </del>   ///
E-3	Adapter				

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	OM	DC cable unshielded

#### Notes:

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<sup>1.</sup> All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

<sup>2.</sup> Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



#### 4.4 Channel List

	Channel List for 802.11b/g/n(20)/ax(20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2412	02	2417	03	2422		
04	2427	05	2432	06	2437		
07	2442	08	2447	09	2452		
10	2457	11	2462				

	Channel List for 802.11n(40)/ax(40)						
Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)							
03	2422	04	2427	05	2432		
06	2437	07	2442	08	2447		
09	2452						

#### 4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20/ax20 CH1/ CH6/ CH11
Mode 4	802.11n40/ax40 CH3/ CH6/ CH9
Mode 5	BT Link+WIFI Link(Conducted emission and Radiated emission)

Note: This prototype does not support RU mode.

#### Note:

(1) The measurements are performed at all Bit Rate of Transmiter, the worst data was reported.

#### 4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version		CMD
Frequency	2412 MHz	2437 MHz 2462 MHz
Parameters	DEF	DEF DEF//////
Frequency	2422MHz	2437MHz 2452MHz
Parameters	DEF	DEF ///DEF/  \\\

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## 5. Test Facility And Test Instrument Used

## 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212

ISED Registered No.: 23583 ISED CAB identifier: CN0017

#### 5.2 Test Instrument Used

Conducted Emissions Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\	
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025	

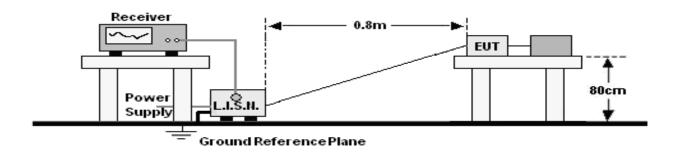
	Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025	
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025	
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 16, 2024	May 15, 2025	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025	
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	FA-03A2 RE		/////\	

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#### 6. Conducted Emissions

## 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

EDECHENCY (MIL-)	Limit (dBuV)		
FREQUENCY (MHz)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

#### Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

#### 6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz.

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

#### 6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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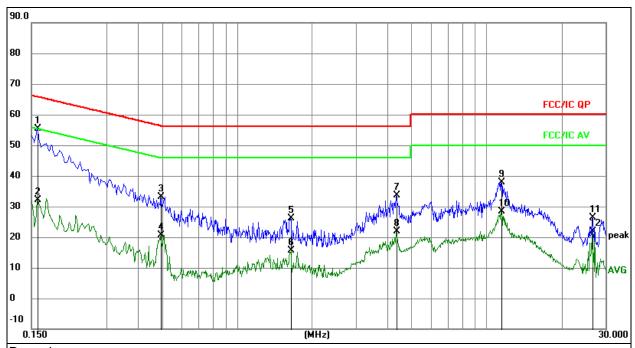
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



#### 6.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 5	Test Voltage :	DC 5V from PC



### Remark:

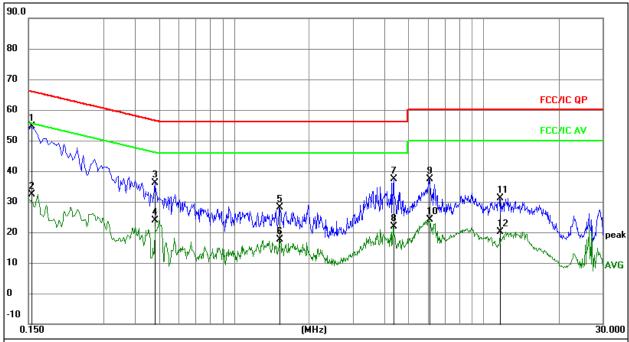
- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∨	dBuV	dB	Detector
1	*	0.1590	35.20	20.07	55.27	65.52	-10.25	QP
2		0.1590	12.15	20.07	32.22	55.52	-23.30	AVG
3		0.4965	13.17	20.08	33.25	56.06	-22.81	QP
4		0.4965	0.66	20.08	20.74	46.06	-25.32	AVG
5		1.6395	6.06	20.10	26.16	56.00	-29.84	QP
6		1.6395	-4.43	20.10	15.67	46.00	-30.33	AVG
7		4.3485	13.38	20.14	33.52	56.00	-22.48	QP
8		4.3485	1.62	20.14	21.76	46.00	-24.24	AVG
9		11.4765	17.71	20.21	37.92	60.00	-22.08	QP
10		11.4765	8.17	20.21	28.38	50.00	-21.62	AVG
11		26.6100	6.08	20.29	26.37	60.00	-33.63	QP
12		26.6100	1.59	20.29	21.88	50.00	-28.12	AVG

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Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 5	Test Voltage:	DC 5V from PC



#### Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∨	dBuV	dB	Detector
1	*	0.1545	34.44	20.07	54.51	65.75	-11.24	QP
2		0.1545	12.25	20.07	32.32	55.75	-23.43	AVG
3		0.4830	16.14	20.08	36.22	56.29	-20.07	QP
4		0.4830	3.84	20.08	23.92	46.29	-22.37	AVG
5		1.5225	7.97	20.10	28.07	56.00	-27.93	QP
6		1.5225	-2.55	20.10	17.55	46.00	-28.45	AVG
7		4.3710	17.35	20.14	37.49	56.00	-18.51	QP
8		4.3710	1.76	20.14	21.90	46.00	-24.10	AVG
9		6.0765	17.12	20.15	37.27	60.00	-22.73	QP
10		6.0765	3.98	20.15	24.13	50.00	-25.87	AVG
11		11.6700	10.93	20.22	31.15	60.00	-28.85	QP
12		11.6700	-0.15	20.22	20.07	50.00	-29.93	AVG

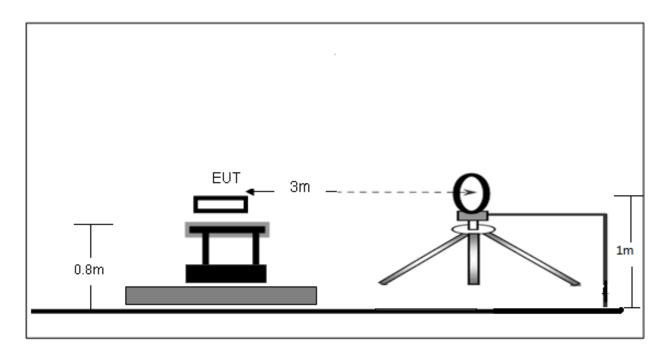
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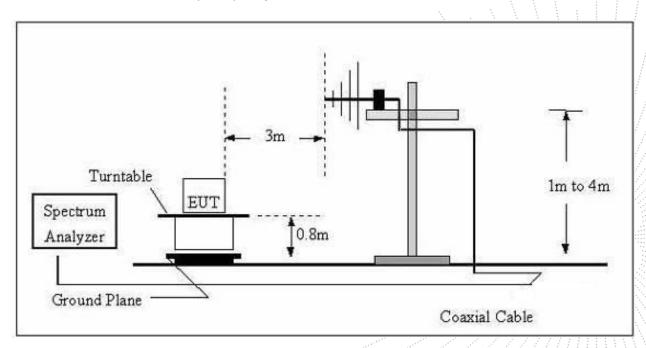
#### 7. Radiated Emissions

## 7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



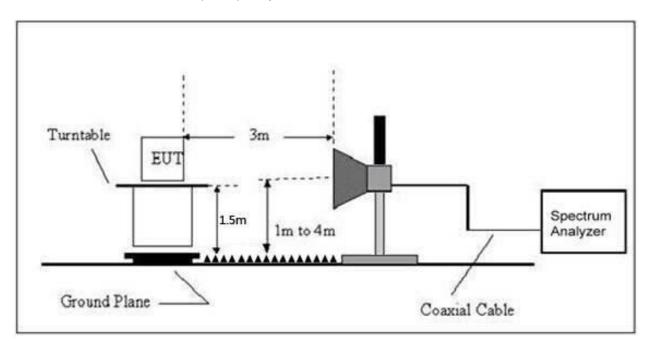
#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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## (C) Radiated Emission Test-Up Frequency Above 1GHz



#### 7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log <sup>(2400/F(kHz))</sup> + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40	
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40	
30 ~ 88	100	3	100	20log <sup>(100)</sup>	
88 ~ 216	150	3	150	20log <sup>(150)</sup>	
216 ~ 960	200	3	200	20log <sup>(200)</sup>	
Above 960	500	3	500	20log <sup>(500)</sup>	

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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#### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

#### 7.3 Test Procedure

Receiver Parameter	Setting	
Attenuation	Auto	
9kHz~150kHz	RBW 200Hz for QP	
150kHz~30MHz	RBW 9kHz for QP	
30MHz~1000MHz	RBW 120kHz for QP	

Spectrum Parameter	Setting	
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average	

#### Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

#### 7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 7.5 Test Result

#### Below 30MHz

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V from PC
Test Mode:	Mode 5	Polarization:	-2,

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
			2	PASS
			——————————————————————————————————————	PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

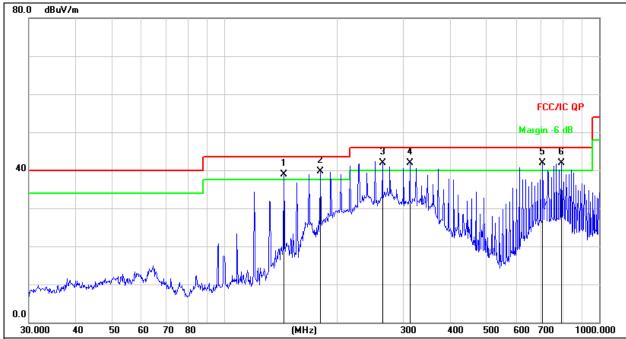
Limit line = specific limits(dBuv) + distance extrapolation factor.

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#### Between 30MHz - 1GHz

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage:	DC 5V from PC



#### Remark:

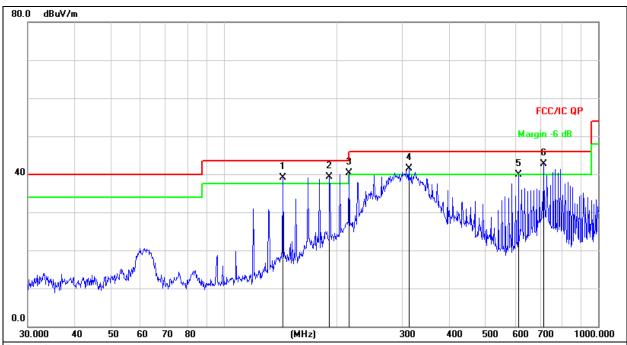
- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- Measurement=Reading Level+ Correct Factor
   Over= Measurement-Limit

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	ļ	143.8293	57.85	-19.00	38.85	43.50	-4.65	QP
2	*	180.0165	56.98	-17.20	39.78	43.50	-3.72	QP
3	ļ	263.8190	55.91	-14.00	41.91	46.00	-4.09	QP
4	ļ	312.1792	54.66	-12.81	41.85	46.00	-4.15	QP
5	ļ	706.6997	47.44	-5.61	41.83	46.00	-4.17	QP
6	İ	793.3958	46.48	-4.48	42.00	46.00	-4.00	QP

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Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Test Voltage:	DC 5V from PC



#### Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
  2. Measurement=Reading Level+ Correct Factor
  3. Over= Measurement-Limit

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	İ	143.8293	58.03	-19.00	39.03	43.50	-4.47	QP
2	İ	191.7450	55.64	-16.33	39.31	43.50	-4.19	QP
3	İ	216.0240	55.64	-15.26	40.38	46.00	-5.62	QP
4	İ	312.1792	54.33	-12.81	41.52	46.00	-4.48	QP
5		612.0642	46.72	-6.81	39.91	46.00	-6.09	QP
6	*	714.1734	48.25	-5.51	42.74	46.00	-3.26	QP

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## Between 1GHz – 25GHz **802.11b**

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low chann	el:2412MHz			
V	4824.00	65.33	-19.95	45.38	74.00	-28.62	PK
V	4824.00	58.20	-19.95	38.25	54.00	-15.75	AV
V	7236.00	64.56	-14.14	50.42	74.00	-23.58	PK
V	7236.00	59.68	-14.14	45.54	54.00	-8.46	AV
Н	4824.00	68.63	-19.95	48.68	74.00	-25.32	PK
Н	4824.00	58.70	-19.95	38.75	54.00	-15.25	AV
Н	7236.00	67.72	-14.14	53.58	74.00	-20.42	PK
Н	7236.00	55.27	-14.14	41.13	54.00	-12.87	AV
			Middle chan	nel:2437MHz			
V	4874.00	66.94	-19.85	47.09	74.00	-26.91	PK
V	4874.00	54.15	-19.85	34.30	54.00	-19.70	AV
V	7311.00	64.52	-13.93	50.59	74.00	-23.41	PK
V	7311.00	58.81	-13.93	44.88	54.00	-9.12	AV
Н	4874.00	66.43	-19.85	46.58	74.00	-27.42	PK
Н	4874.00	58.03	-19.85	38.18	54.00	-15.82	AV
Н	7311.00	64.68	-13.93	50.75	74.00	-23.25	PK
Н	7311.00	59.36	-13.93	45.43	54.00	-8.57	AV
			High chann	el:2462MHz			
V	4924.00	69.03	-19.75	49.28	74.00	-24.72	PK
V	4924.00	54.63	-19.75	34.88	54.00	-19.12	AV
V	7386.00	65.14	-13.72	51.42	74.00	-22.58	PK
V	7386.00	58.98	-13.72	45.26	54.00	-8.74	AV
Н	4924.00	67.45	-19.75	47.70	74.00	-26.30	PK
Н	4924.00	54.75	-19.75	35.00	54.00	-19.00	AV
Н	7386.00	69.86	-13.72	56.14	74.00	-17.86	PK
Н	7386.00	58.41	-13.72	44.69	54.00	-9.31	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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802.11g

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low channe	el:2412MHz			
V	4824.00	66.56	-19.95	46.61	74.00	-27.39	PK
V	4824.00	59.31	-19.95	39.36	54.00	-14.64	AV
V	7236.00	66.51	-14.14	52.37	74.00	-21.63	PK
V	7236.00	55.04	-14.14	40.90	54.00	-13.10	AV
Н	4824.00	66.65	-19.95	46.70	74.00	-27.30	PK
Н	4824.00	55.41	-19.95	35.46	54.00	-18.54	AV
Н	7236.00	64.84	-14.14	50.70	74.00	-23.30	PK
Н	7236.00	54.01	-14.14	39.87	54.00	-14.13	AV
			Middle chan	nel:2437MHz			
V	4874.00	66.76	-19.85	46.91	74.00	-27.09	PK
V	4874.00	59.16	-19.85	39.31	54.00	-14.69	AV
V	7311.00	69.99	-13.93	56.06	74.00	-17.94	PK
V	7311.00	57.52	-13.93	43.59	54.00	-10.41	AV
Н	4874.00	69.16	-19.85	49.31	74.00	-24.69	PK
Н	4874.00	59.81	-19.85	39.96	54.00	-14.04	AV
Н	7311.00	64.15	-13.93	50.22	74.00	-23.78	PK
Н	7311.00	58.35	-13.93	44.42	54.00	-9.58	AV
			High chann	el:2462MHz			
V	4924.00	65.24	-19.75	45.49	74.00	-28.51	PK
V	4924.00	58.09	-19.75	38.34	54.00	-15.66	AV
V	7386.00	69.19	-13.72	55.47	74,00	-18.53	PK
V	7386.00	57.84	-13.72	44.12	54.00	-9.88	AV
Н	4924.00	67.63	-19.75	47.88	74.00	-26.12	PK
Н	4924.00	57.61	-19.75	37.86	54.00	-16.14	AV
Н	7386.00	69.79	-13.72	56.07	74.00	-17.93	PK
Н	7386.00	55.31	-13.72	41.59	54.00	-12.41	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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#### 802.11n20

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	•		Low channe	el:2412MHz			
V	4824.00	64.75	-19.95	44.80	74.00	-29.20	PK
V	4824.00	55.44	-19.95	35.49	54.00	-18.51	AV
V	7236.00	64.08	-14.14	49.94	74.00	-24.06	PK
V	7236.00	58.32	-14.14	44.18	54.00	-9.82	AV
Н	4824.00	68.55	-19.95	48.60	74.00	-25.40	PK
Н	4824.00	56.75	-19.95	36.80	54.00	-17.20	AV
Н	7236.00	64.05	-14.14	49.91	74.00	-24.09	PK
Н	7236.00	54.08	-14.14	39.94	54.00	-14.06	AV
			Middle chan	nel:2437MHz			
V	4874.00	67.69	-19.85	47.84	74.00	-26.16	PK
V	4874.00	57.88	-19.85	38.03	54.00	-15.97	AV
V	7311.00	69.24	-13.93	55.31	74.00	-18.69	PK
V	7311.00	58.06	-13.93	44.13	54.00	-9.87	AV
Н	4874.00	68.22	-19.85	48.37	74.00	-25.63	PK
Н	4874.00	57.47	-19.85	37.62	54.00	-16.38	AV
Н	7311.00	67.42	-13.93	53.49	74.00	-20.51	PK
Н	7311.00	58.64	-13.93	44.71	54.00	-9.29	AV
			High chann	el:2462MHz			
V	4924.00	68.81	-19.75	49.06	74.00	-24.94	PK
V	4924.00	57.31	-19.75	37.56	54.00	-16.44	AV
V	7386.00	66.54	-13.72	52.82	74,00	-21.18	PK
V	7386.00	59.48	-13.72	45.76	54.00	-8.24	AV
Н	4924.00	66.72	-19.75	46.97	74.00	-27.03	PK
Н	4924.00	58.83	-19.75	39.08	54.00	-14.92	AV
Н	7386.00	68.87	-13.72	55.15	74.00	-18.85	PK
Н	7386.00	55.10	-13.72	41.38	54.00	-12.62	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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#### 802.11n40

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	•		Low channe	el:2422MHz			
V	4844.00	67.88	-19.91	47.97	74.00	-26.03	PK
V	4844.00	57.92	-19.91	38.01	54.00	-15.99	AV
V	7266.00	66.34	-14.06	52.28	74.00	-21.72	PK
V	7266.00	54.57	-14.06	40.51	54.00	-13.49	AV
Н	4844.00	64.37	-19.91	44.46	74.00	-29.54	PK
Н	4844.00	55.42	-19.91	35.51	54.00	-18.49	AV
Н	7266.00	68.64	-14.06	54.58	74.00	-19.42	PK
Н	7266.00	57.07	-14.06	43.01	54.00	-10.99	AV
			Middle chan	nel:2437MHz			
V	4874.00	65.47	-19.85	45.62	74.00	-28.38	PK
V	4874.00	56.18	-19.85	36.33	54.00	-17.67	AV
V	7311.00	67.30	-13.93	53.37	74.00	-20.63	PK
V	7311.00	54.35	-13.93	40.42	54.00	-13.58	AV
Н	4874.00	68.24	-19.85	48.39	74.00	-25.61	PK
Н	4874.00	57.02	-19.85	37.17	54.00	-16.83	AV
Н	7311.00	67.01	-13.93	53.08	74.00	-20.92	PK
Н	7311.00	58.88	-13.93	44.95	54.00	-9.05	AV
			High chann	el:2452MHz			
V	4904.00	65.76	-19.79	45.97	74.00	-28.03	PK
V	4904.00	55.09	-19.79	35.30	54.00	-18.70	AV
V	7356.00	69.00	-13.80	55.20	74.00	-18.80	PK
V	7356.00	58.33	-13.80	44.53	54.00	-9.47	AV
Н	4904.00	68.14	-19.79	48.35	74.00	-25.65	PK
Н	4904.00	55.37	-19.79	35.58	54.00	-18.42	AV
Н	7356.00	65.21	-13.80	51.41	74.00	-22.59	PK
Н	7356.00	58.08	-13.80	44.28	54.00	-9.72	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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802.11ax20

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low channe	el:2412MHz			
V	4824.00	69.56	-19.95	49.61	74.00	-24.39	PK
V	4824.00	56.04	-19.95	36.09	54.00	-17.91	AV
V	7236.00	68.45	-14.14	54.31	74.00	-19.69	PK
V	7236.00	58.42	-14.14	44.28	54.00	-9.72	AV
Н	4824.00	65.63	-19.95	45.68	74.00	-28.32	PK
Н	4824.00	55.75	-19.95	35.80	54.00	-18.20	AV
Н	7236.00	69.84	-14.14	55.70	74.00	-18.30	PK
Н	7236.00	59.86	-14.14	45.72	54.00	-8.28	AV
			Middle chan	nel:2437MHz			
V	4874.00	65.95	-19.85	46.10	74.00	-27.90	PK
V	4874.00	54.92	-19.85	35.07	54.00	-18.93	AV
V	7311.00	68.62	-13.93	54.69	74.00	-19.31	PK
V	7311.00	58.49	-13.93	44.56	54.00	-9.44	AV
Н	4874.00	66.00	-19.85	46.15	74.00	-27.85	PK
Н	4874.00	54.25	-19.85	34.40	54.00	-19.60	AV
Н	7311.00	68.89	-13.93	54.96	74.00	-19.04	PK
Н	7311.00	57.67	-13.93	43.74	54.00	-10.26	AV
			High chann	el:2462MHz			
V	4924.00	69.20	-19.75	49.45	74.00	-24.55	PK
V	4924.00	59.51	-19.75	39.76	54.00	-14.24	AV
V	7386.00	66.68	-13.72	52.96	74,00	-21.04	PK
V	7386.00	54.35	-13.72	40.63	54.00	-13.37	AV
Н	4924.00	65.24	-19.75	45.49	74.00	-28.51	PK
Н	4924.00	57.40	-19.75	37.65	54.00	-16.35	AV
Н	7386.00	68.32	-13.72	54.60	74.00	-19.40	PK
Н	7386.00	57.37	-13.72	43.65	54.00	-10.35	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier, Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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802.11ax40

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
			Low channe	el:2422MHz			
V	4844.00	67.50	-19.91	47.59	74.00	-26.41	PK
V	4844.00	55.96	-19.91	36.05	54.00	-17.95	AV
V	7266.00	65.24	-14.06	51.18	74.00	-22.82	PK
V	7266.00	56.38	-14.06	42.32	54.00	-11.68	AV
Н	4844.00	64.92	-19.91	45.01	74.00	-28.99	PK
Н	4844.00	57.97	-19.91	38.06	54.00	-15.94	AV
Н	7266.00	69.54	-14.06	55.48	74.00	-18.52	PK
Н	7266.00	57.21	-14.06	43.15	54.00	-10.85	AV
			Middle chani	nel:2437MHz			
V	4874.00	67.07	-19.85	47.22	74.00	-26.78	PK
V	4874.00	57.49	-19.85	37.64	54.00	-16.36	AV
V	7311.00	67.69	-13.93	53.76	74.00	-20.24	PK
V	7311.00	59.66	-13.93	45.73	54.00	-8.27	AV
Н	4874.00	69.70	-19.85	49.85	74.00	-24.15	PK
Н	4874.00	54.19	-19.85	34.34	54.00	-19.66	AV
Н	7311.00	64.58	-13.93	50.65	74.00	-23.35	PK
Н	7311.00	58.18	-13.93	44.25	54.00	-9.75	AV
			High chann	el:2452MHz			
V	4904.00	68.32	-19.79	48.53	74.00	-25.47	PK
V	4904.00	59.40	-19.79	39.61	54.00	-14.39	AV
V	7356.00	69.76	-13.80	55.96	74,00	-18.04	PK
V	7356.00	56.77	-13.80	42.97	54.00	-11.03	AV
Н	4904.00	65.11	-19.79	45.32	74.00	-28.68	PK
Н	4904.00	59.39	-19.79	39.60	54.00	-14.40	AV
Н	7356.00	68.02	-13.80	54.22	74.00	-19.78	PK
Н	7356.00	57.79	-13.80	43.99	54.00	-10.01	AV

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

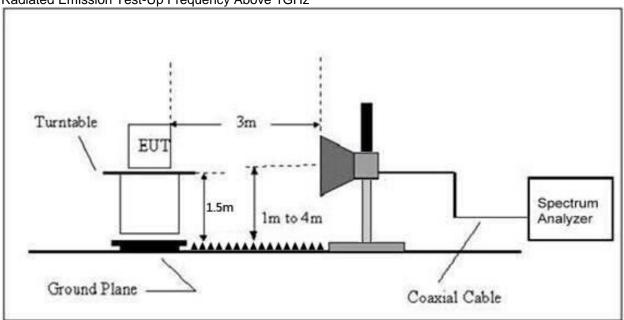
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## 8. Radiated Band Emission Measurement And Restricted Bands Of Operation

## 8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



#### 8.2 Limit

#### FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			·

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#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MU-)	Limit (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 8.3 Test Procedure

Receiver Parameter	Setting			
Attenuation	Auto			
Start Frequency	2300MHz			
Stop Frequency	2520			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average			

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

#### 8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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#### 8.5 Test Result

	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)		sure- BuV/m)	Over	Result	
	, ,	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK		
	Low Channel 2412MHz									
	Н	2390.00	72.98	-25.43	47.55	74.00	54.00	-26.45	PASS	
	Н	2400.00	73.79	-25.40	48.39	74.00	54.00	-25.61	PASS	
	V	2390.00	76.03	-25.43	50.60	74.00	54.00	-23.40	PASS	
802.11b	V	2400.00	75.47	-25.40	50.07	74.00	54.00	-23.93	PASS	
002.110		High Channel 2462MHz								
	Н	2483.50	74.84	-25.15	49.69	74.00	54.00	-24.31	PASS	
	Н	2500.00	72.84	-25.10	47.74	74.00	54.00	-26.26	PASS	
	V	2483.50	70.28	-25.15	45.13	74.00	54.00	-28.87	PASS	
	V	2500.00	70.79	-25.10	45.69	74.00	54.00	-28.31	PASS	
	Low Channel 2412MHz									
	Н	2390.00	70.15	-25.43	44.72	74.00	54.00	-29.28	PASS	
	Н	2400.00	71.41	-25.40	46.01	74.00	54.00	-27.99	PASS	
	V	2390.00	71.61	-25.43	46.18	74.00	54.00	-27.82	PASS	
802.11g	V	2400.00	74.00	-25.40	48.60	74.00	54.00	-25.40	PASS	
002.11g	High Channel 2462MHz									
	Н	2483.50	76.91	-25.15	51.76	74.00	54.00	-22.24	PASS	
	Н	2500.00	73.65	-25.10	48.55	74.00	54.00	-25.45	PASS	
	V	2483.50	71.85	-25.15	46.70	74.00	54.00	-27.30	PASS	
	V	2500.00	71.97	-25.10	46.87	74.00	54.00	-27.13	PASS	

#### Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,

Over= Measurement - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result		
	` ′	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK			
		Low Channel 2412MHz									
	Н	2390.00	69.63	-25.43	44.20	74.00	54.00	-29.80	PASS		
	Н	2400.00	71.96	-25.40	46.56	74.00	54.00	-27.44	PASS		
	V	2390.00	76.83	-25.43	51.40	74.00	54.00	-22.60	PASS		
802.11	V	2400.00	72.77	-25.40	47.37	74.00	54.00	-26.63	PASS		
n20		High Channel 2462MHz									
	Н	2483.50	75.40	-25.15	50.25	74.00	54.00	-23.75	PASS		
	Н	2500.00	72.31	-25.10	47.21	74.00	54.00	-26.79	PASS		
	V	2483.50	71.47	-25.15	46.32	74.00	54.00	-27.68	PASS		
	V	2500.00	71.08	-25.10	45.98	74.00	54.00	-28.02	PASS		
	Low Channel 2422MHz										
	Н	2390.00	71.03	-25.43	45.60	74.00	54.00	-28.40	PASS		
	Н	2400.00	74.24	-25.40	48.84	74.00	54.00	-25.16	PASS		
	V	2390.00	75.32	-25.43	49.89	74.00	54.00	-24.11	PASS		
802.11	V	2400.00	76.62	-25.40	51.22	74.00	54.00	-22.78	PASS		
n40		High Channel 2452MHz									
	Н	2483.50	72.42	-25.15	47.27	74.00	54.00	-26.73	PASS		
	Н	2500.00	74.14	-25.10	49.04	74.00	54.00	-24.96	PASS		
	V	2483.50	72.61	-25.15	47.46	74.00	54.00	-26.54	PASS		
	V	2500.00	69.04	-25.10	43.94	74.00	54.00	-30.06	PASS		

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result		
	, ,	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK			
		Low Channel 2412MHz									
	Н	2390.00	73.13	-25.43	47.70	74.00	54.00	-26.30	PASS		
	Н	2400.00	72.65	-25.40	47.25	74.00	54.00	-26.75	PASS		
	V	2390.00	75.71	-25.43	50.28	74.00	54.00	-23.72	PASS		
802.11	V	2400.00	74.40	-25.40	49.00	74.00	54.00	-25.00	PASS		
ax20	High Channel 2462MHz										
	Н	2483.50	73.34	-25.15	48.19	74.00	54.00	-25.81	PASS		
	Н	2500.00	75.96	-25.10	50.86	74.00	54.00	-23.14	PASS		
	V	2483.50	73.08	-25.15	47.93	74.00	54.00	-26.07	PASS		
	V	2500.00	73.64	-25.10	48.54	74.00	54.00	-25.46	PASS		
	Low Channel 2422MHz										
	Н	2390.00	70.88	-25.43	45.45	74.00	54.00	-28.55	PASS		
	Н	2400.00	71.79	-25.40	46.39	74.00	54.00	-27.61	PASS		
	V	2390.00	71.84	-25.43	46.41	74.00	54.00	-27.59	PASS		
802.11	V	2400.00	75.84	-25.40	50.44	74.00	54.00	-23.56	PASS		
ax40		High Channel 2452MHz									
	Н	2483.50	77.90	-25.15	52.75	74.00	54.00	-21.25	PASS		
	Н	2500.00	71.57	-25.10	46.47	74.00	54.00	-27.53	PASS		
	V	2483.50	74.13	-25.15	48.98	74.00	54.00	-25.02	PASS		
	V	2500.00	70.41	-25.10	45.31	74.00	54.00	-28.69	PASS		

#### Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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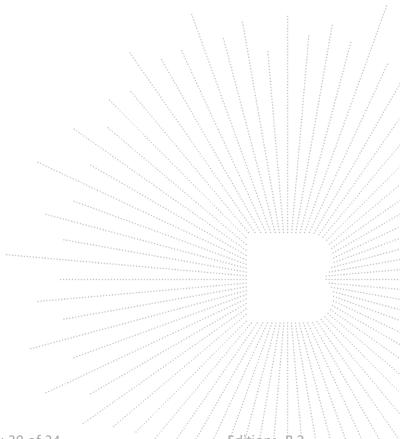
## 9. Antenna Requirement

#### 9.1 Limit

15.203 requirement: For intentional device, according to 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.

#### 9.2 Test Result

The EUT antenna is FPC Antenna, Antenna Gain is 2.6 dBi, fulfill the requirement of this section.

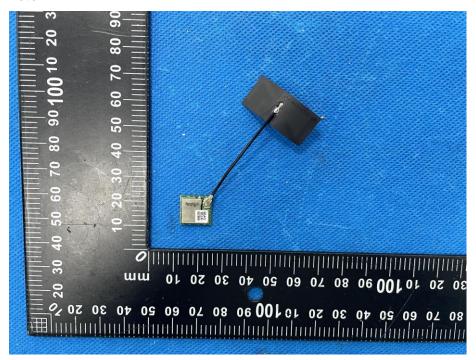


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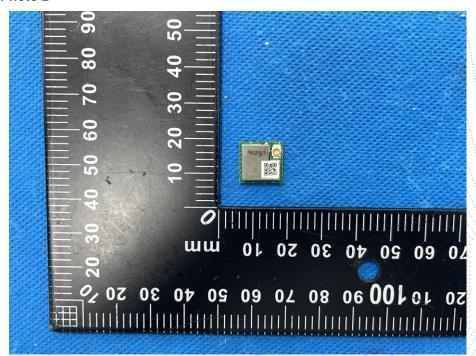


#### 10. EUT Photographs

#### **EUT Photo 1**



#### **EUT Photo 2**



NOTE: Appendix-Photographs Of EUT Constructional Details.

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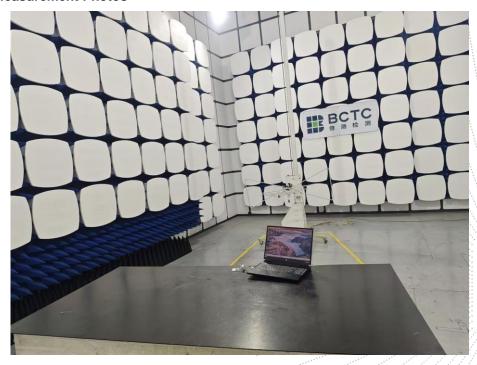


## 11. EUT Test Setup Photographs

## **Conducted Emissions Photo**



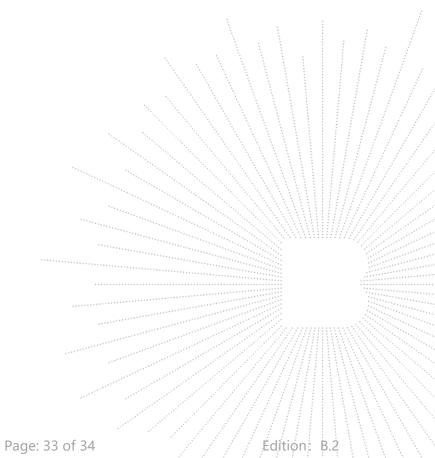
#### **Radiated Measurement Photos**



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#### **STATEMENT**

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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\*\*\*\* END \*\*\*\*

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