



RF TEST REPORT

Product Name: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)

Model Name: R811SH

FCC ID: 2A22Z-R810H

Issued For : Botslab Inc.

919 North Market Street, Suite 950, Wilmington, New Castle,
Delaware, USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25C014RF01

Sample Received Date: Mar. 06, 2025

Date of Test: Mar. 11, 2025 ~ Apr. 08, 2025

Date of Issue: Apr. 09, 2025

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TEST REPORT CERTIFICATION

Applicant: Botslab Inc.
Address: 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware, USA
Manufacturer: Botslab Inc.
Address: 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware, USA
Product Name: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)
Trademark: Botslab
Model Name: R811SH
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2013 KDB558074 D01 15.247 Meas Guidance v05r02	PASS

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Technical Director





Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACTORY	6
1.2 MEASUREMENT UNCERTAINTY	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	9
2.3 TEST SOFTWARE AND POWER LEVEL	9
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3. EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.2 RADIATED EMISSION MEASUREMENT	16
4. ANTENNA REQUIREMENT	30
4.1 STANDARD REQUIREMENT	30
4.2 EUT ANTENNA	30
APPENDIX II - MEASUREMENT PHOTOS	31
APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	32



Revision History

Rev.	Issue Date	Revisions
00	Apr. 09, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	N/A	--
15.247 (b)(3)	Output Power	N/A	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	N/A	--
15.247 (e)	Power Spectral Density	N/A	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.
- (3) Base on the original report number LGT24G047RF01, the model R811SH have same PCB Board & block diagram & operating principle as the certified prototype of model R810H. They're only have different in antenna and colors of appearance. From a technical point of view, for emissions retest required, find the worst-case mode and only this mode was presented in this report, and issued the revised report.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF Output Power, Conducted	$\pm 0.71\text{dB}$
2	Power Spectral Density, Conducted	$\pm 1.57\text{ dB}$
3	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
4	Conducted emission	$\pm 2.80\text{dB}$
5	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
6	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.40\text{dB}$
7	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	
Trademark:	Botslab	
Model Name:	R811SH	
Series Model:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Number of Channel:	802.11b/g/n: 11CH 802.11n: 7CH
	Antenna Designation:	External Antenna
	Antenna Gain(dBi):	Ant 1: 1.88dBi, Ant 2: 1.88dBi, MIMO: 4.89dBi
Channel List:	Please refer to the Note 3.	
Rating:	Input: AC 100-240V, 50/60Hz, 0.3A Max	
Hardware Version:	R811-V3.1	
Software Version:	1.00.046-20240903	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

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:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n(HT20)		For 802.11n(HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

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

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: Keeping TX + WLAN Link

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 2.4G WIFI		
	Mode Or Modulation type	SISO Power setting	MIMO Power setting
QATool_Dbg_0.0.0.71	b	12	-
	g	0D	-
	n20	0B	6
	n40	0B	6



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A
Adapter	Tenpao	S005CAU0500100	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 1A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-NMNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2025.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-NMNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B-NMSM-1M9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-05000KMSKMS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.08.05	2025.08.04
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Power Sensor	R&S	NRP8S	149.0006K02-104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2025.03.06	2026.03.05
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.08.05	2025.08.04
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Jiuyuan	QJ6010E	N.A	2025.03.09	2026.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

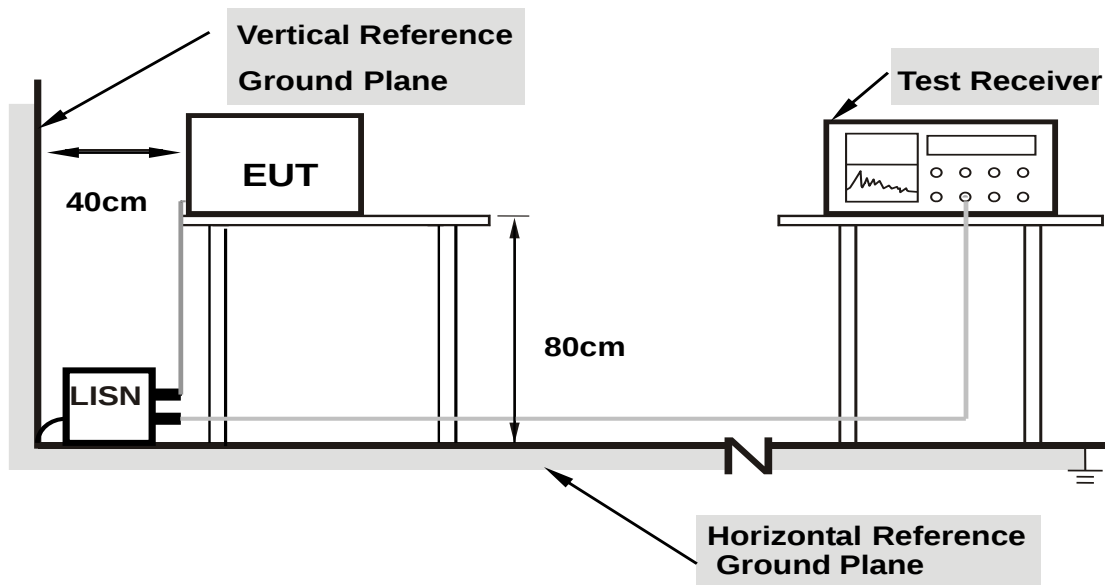
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
- 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.**

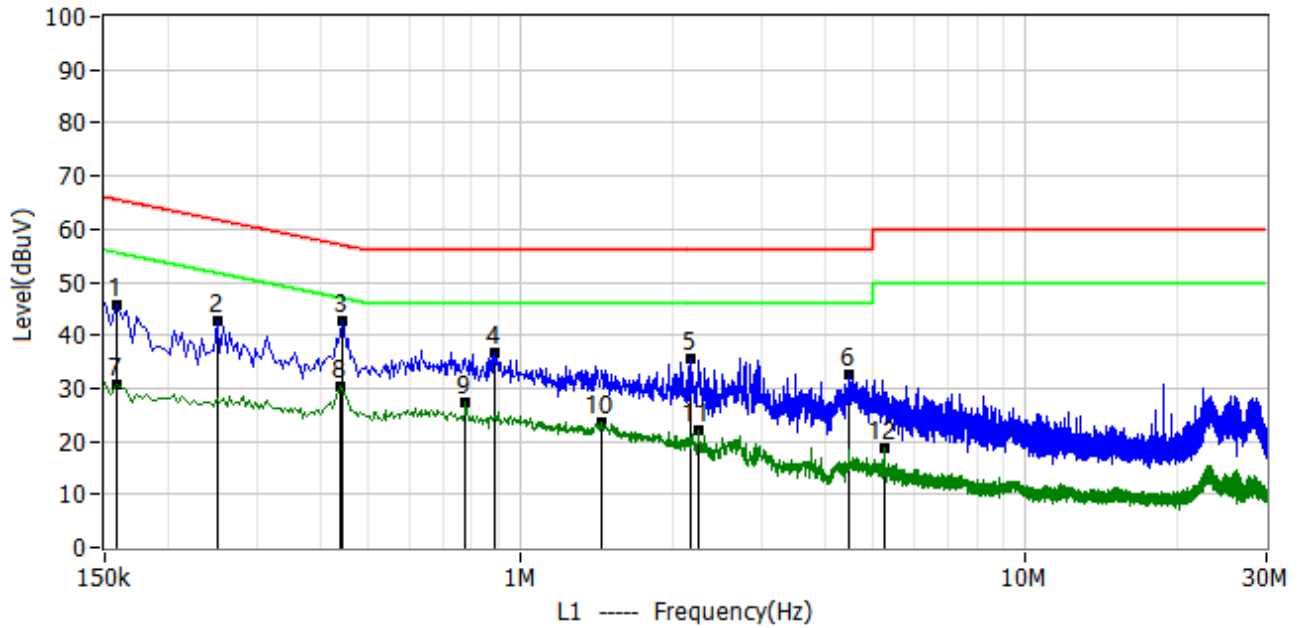
3.1.4 EUT OPERATING CONDITIONS

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.



3.1.5 TEST RESULT

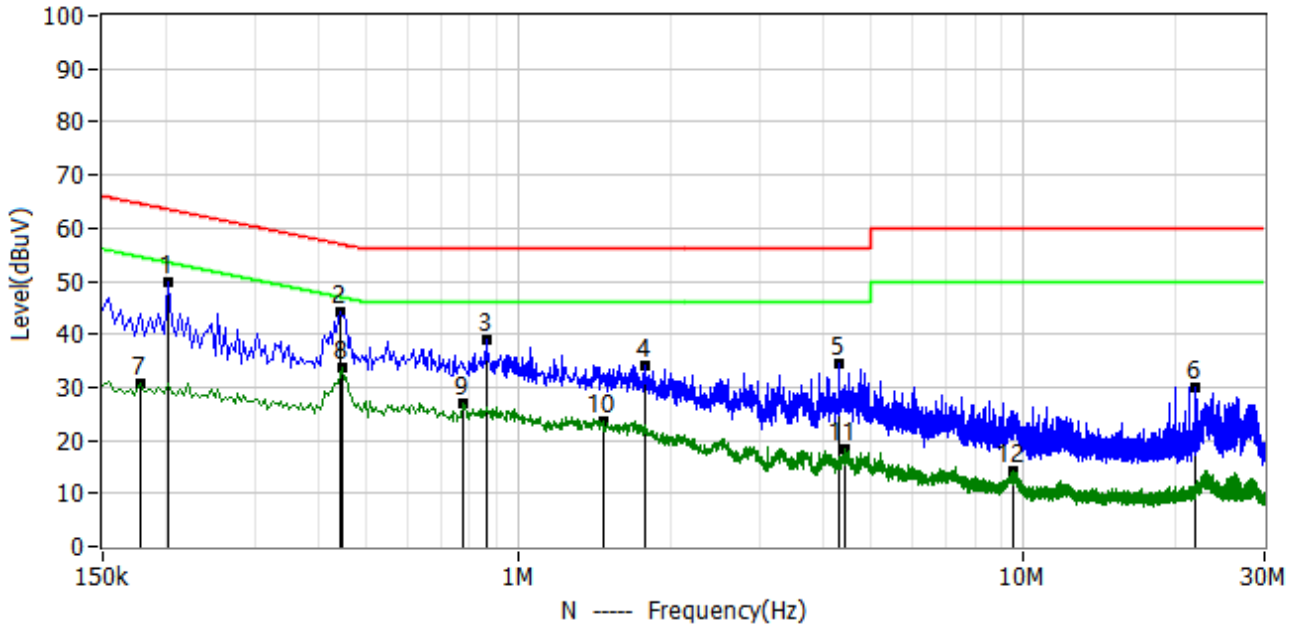
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 24.5°C
M/N: R811SH	Humidity: 66%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-15
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.158	35.34	10.34	45.68	65.57	-19.89	QP	L1
2*	0.250	32.29	10.34	42.63	61.76	-19.13	QP	L1
3*	0.442	32.34	10.35	42.69	57.02	-14.33	QP	L1
4*	0.886	26.37	10.36	36.73	56.00	-19.27	QP	L1
5*	2.166	24.92	10.55	35.47	56.00	-20.53	QP	L1
6*	4.482	21.98	10.58	32.56	56.00	-23.44	QP	L1
7*	0.158	20.32	10.34	30.66	55.57	-24.91	AV	L1
8*	0.438	19.97	10.35	30.32	47.10	-16.78	AV	L1
9*	0.778	17.08	10.36	27.44	46.00	-18.56	AV	L1
10*	1.446	13.00	10.44	23.44	46.00	-22.56	AV	L1
11*	2.258	11.37	10.55	21.92	46.00	-24.08	AV	L1
12*	5.266	8.04	10.59	18.63	50.00	-31.37	AV	L1



Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 24.5°C
M/N: R811SH	Humidity: 66%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-15
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.202	39.27	10.44	49.71	63.53	-13.82	QP	N
2*	0.442	33.84	10.45	44.29	57.02	-12.73	QP	N
3*	0.862	28.34	10.46	38.80	56.00	-17.20	QP	N
4*	1.778	23.56	10.61	34.17	56.00	-21.83	QP	N
5*	4.294	23.69	10.68	34.37	56.00	-21.63	QP	N
6*	21.822	19.18	10.84	30.02	60.00	-29.98	QP	N
7*	0.178	20.37	10.44	30.81	54.58	-23.77	AV	N
8*	0.446	23.39	10.45	33.84	46.95	-13.11	AV	N
9*	0.774	16.41	10.45	26.86	46.00	-19.14	AV	N
10*	1.466	13.23	10.55	23.78	46.00	-22.22	AV	N
11*	4.434	7.52	10.68	18.20	46.00	-27.80	AV	N
12*	9.570	3.37	10.75	14.12	50.00	-35.88	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(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).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

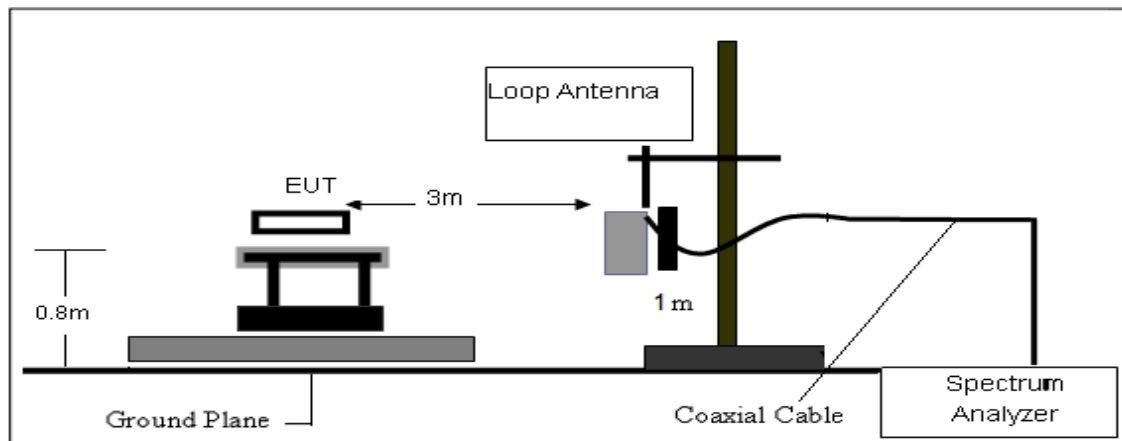
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

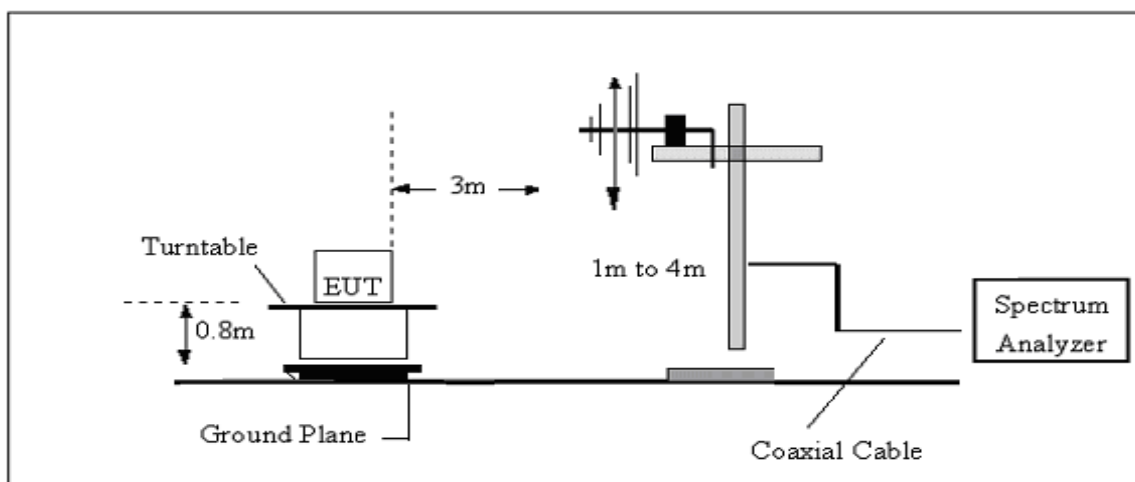
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

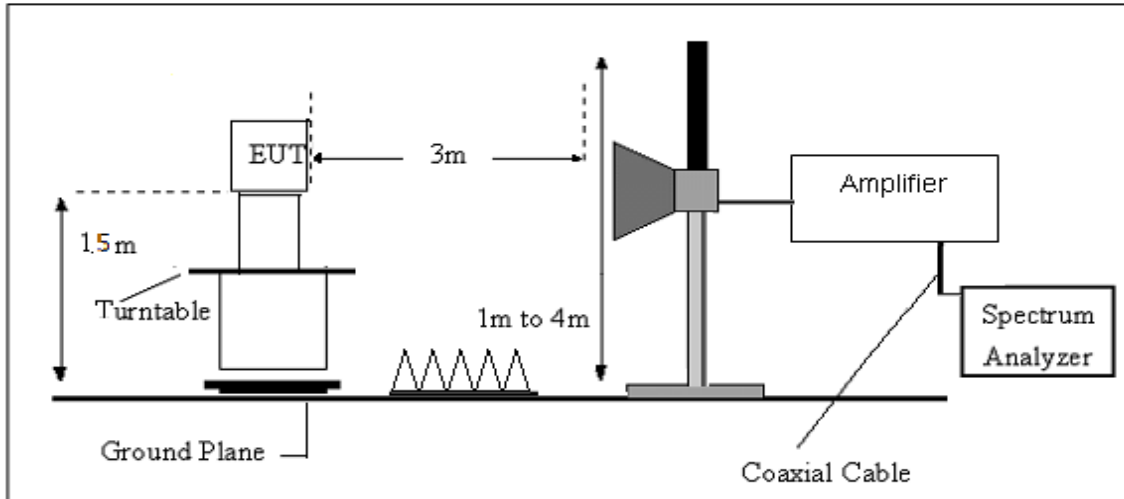
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 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

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULT

Note:1. Note: All the modes have been tested, found worst case at IEEE 802.11b, recorded the worst case results in this report

2. The peak value is less than the AV limit, so no AV data is displayed.

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Remark:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

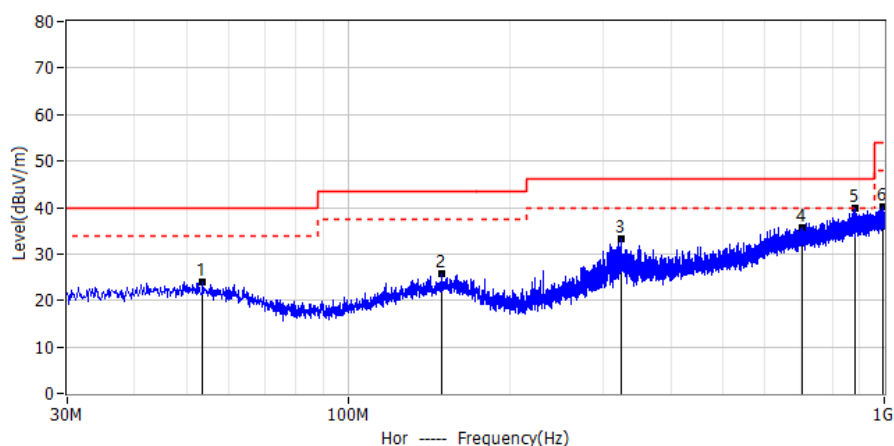
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

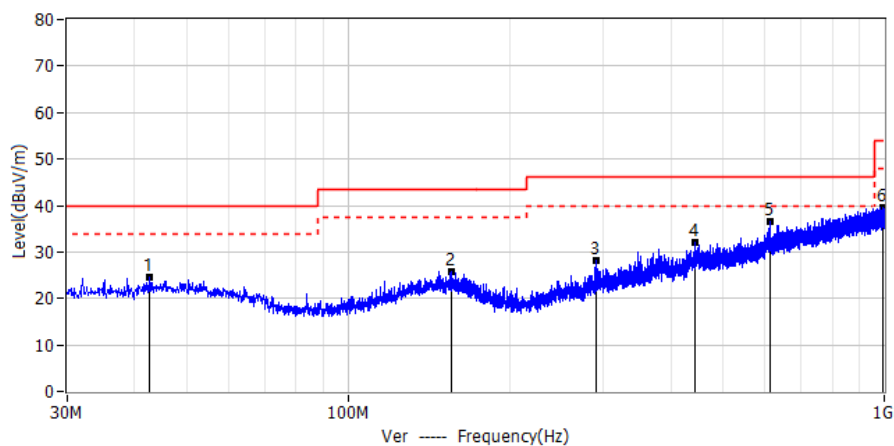


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-27
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	53.644	3.27	20.72	23.99	40.00	-16.01	QP	Hor
2*	149.674	3.83	21.86	25.69	43.50	-17.81	QP	Hor
3*	324.031	10.36	22.80	33.16	46.00	-12.84	QP	Hor
4*	700.876	4.45	31.34	35.79	46.00	-10.21	QP	Hor
5*	882.751	5.56	34.20	39.76	46.00	-6.24	QP	Hor
6*	995.514	4.97	35.07	40.04	54.00	-13.96	QP	Hor

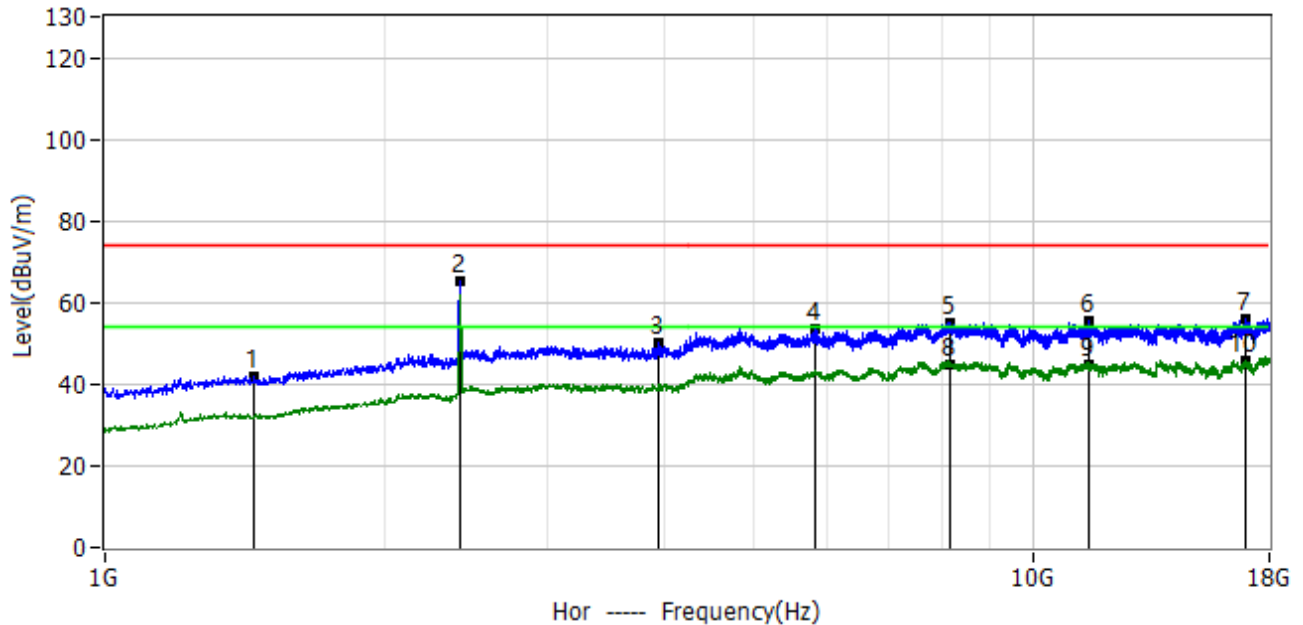


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.610	3.57	20.95	24.52	40.00	-15.48	QP	Ver
2*	155.858	3.60	22.08	25.68	43.50	-17.82	QP	Ver
3*	290.809	6.39	21.86	28.25	46.00	-17.75	QP	Ver
4*	443.948	5.29	26.67	31.96	46.00	-14.04	QP	Ver
5*	612.000	6.85	29.81	36.66	46.00	-9.34	QP	Ver
6*	995.999	4.58	35.09	39.67	54.00	-14.33	QP	Ver



Results of Radiated Emissions (Above 1000MHz)

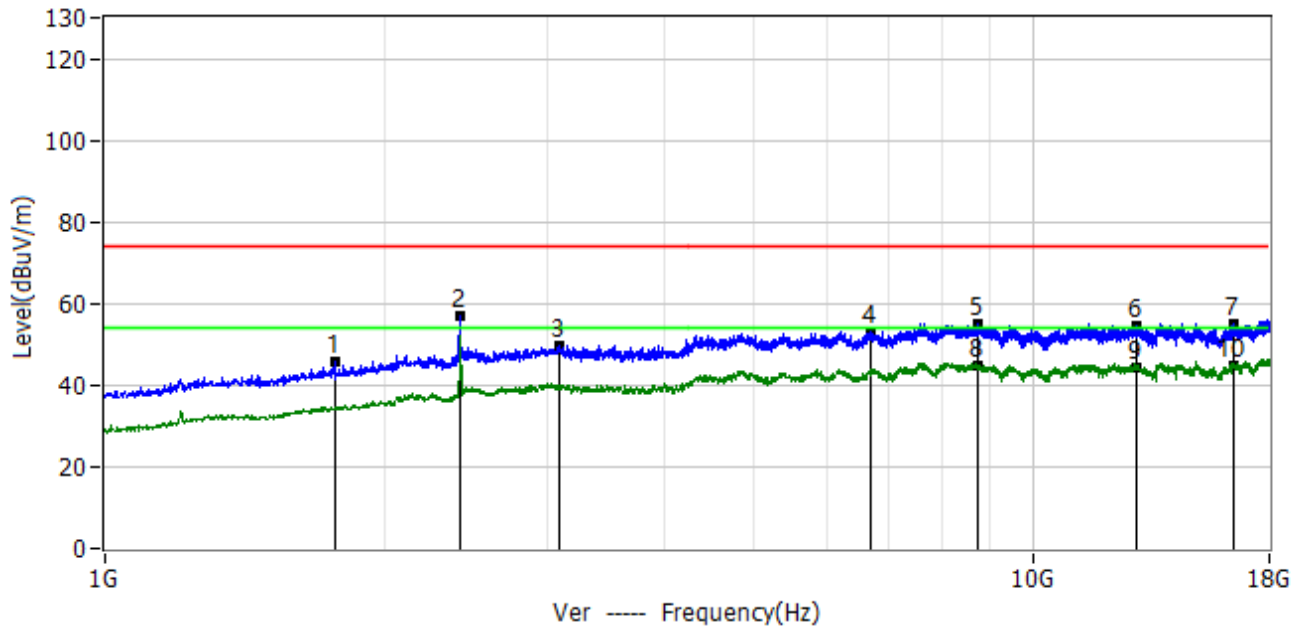
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1448.4000	62.70	-20.61	42.09	74.00	-31.91	PK	Hor
2*	2413.1000	75.84	-10.41	65.43	/	/	PK	Hor
3*	3958.0000	56.61	-6.62	49.99	74.00	-24.01	PK	Hor
4*	5830.1000	59.65	-6.12	53.53	74.00	-20.47	PK	Hor
5*	8131.5000	60.42	-5.58	54.84	74.00	-19.16	PK	Hor
6*	11512.4000	59.08	-3.42	55.66	74.00	-18.34	PK	Hor
7*	16992.7000	58.37	-2.41	55.96	74.00	-18.04	PK	Hor
8*	8131.5000	50.18	-5.58	44.60	54.00	-9.40	AV	Hor
9*	11512.4000	48.02	-3.42	44.60	54.00	-9.40	AV	Hor
10*	16992.7000	48.01	-2.41	45.60	54.00	-8.40	AV	Hor



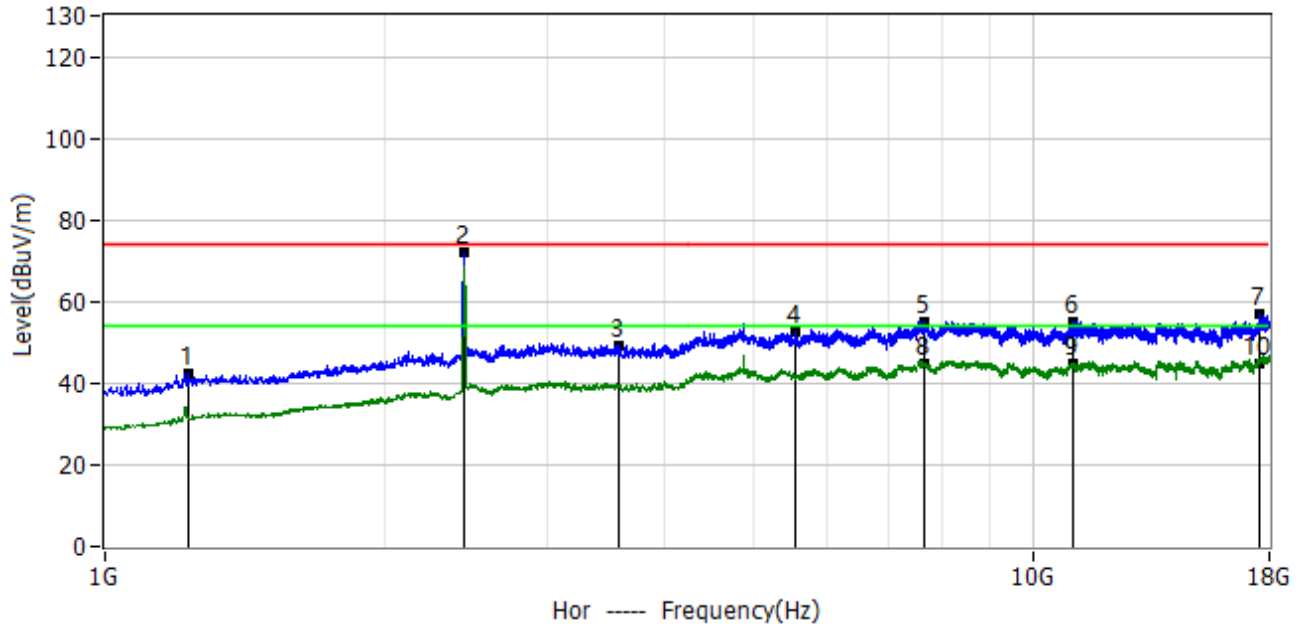
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1771.4000	62.77	-17.24	45.53	74.00	-28.47	PK	Ver
2*	2413.1000	67.14	-10.41	56.73	/	/	PK	Ver
3*	3086.7000	57.00	-7.36	49.64	74.00	-24.36	PK	Ver
4*	6701.4000	59.07	-5.99	53.08	74.00	-20.92	PK	Ver
5*	8745.6000	59.90	-5.10	54.80	74.00	-19.20	PK	Ver
6*	12925.5000	58.05	-3.67	54.38	74.00	-19.62	PK	Ver
7*	16463.6000	58.14	-3.19	54.95	74.00	-19.05	PK	Ver
8*	8745.6000	49.80	-5.10	44.70	54.00	-9.30	AV	Ver
9*	12925.5000	48.07	-3.67	44.40	54.00	-9.60	AV	Ver
10*	16463.6000	47.89	-3.19	44.70	54.00	-9.30	AV	Ver



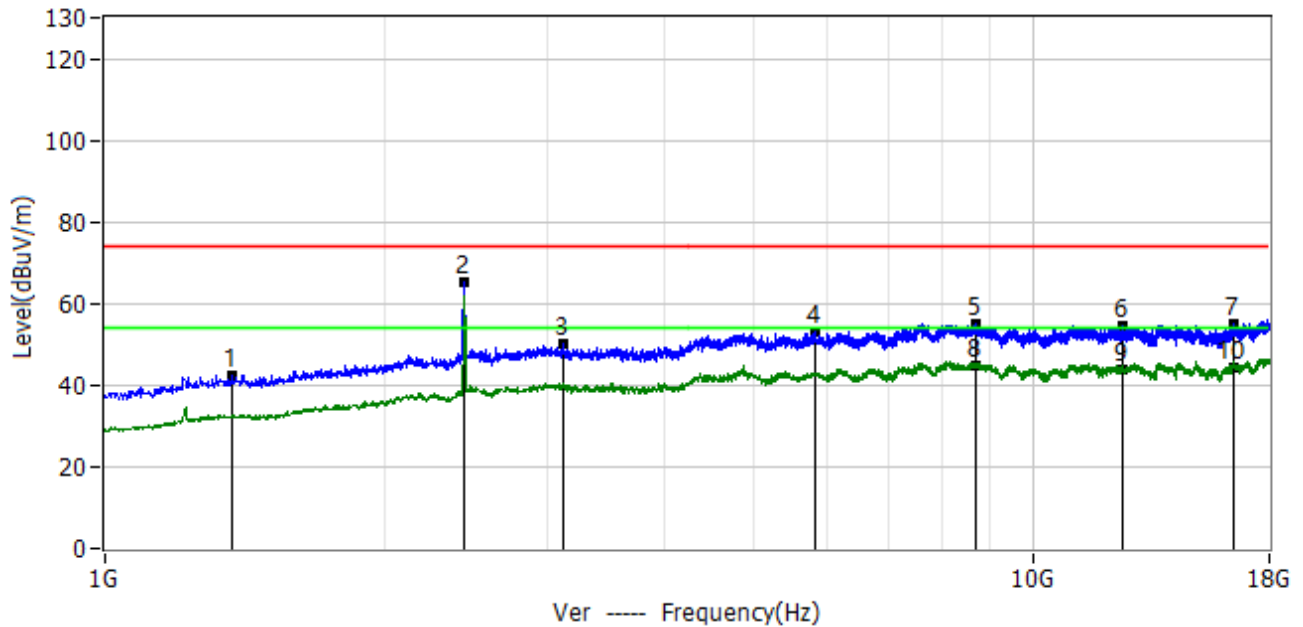
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2437	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1229.5000	65.10	-22.76	42.34	74.00	-31.66	PK	Hor
2*	2438.6000	82.27	-10.17	72.10	/	/	PK	Hor
3*	3575.5000	56.49	-7.23	49.26	74.00	-24.74	PK	Hor
4*	5556.0000	58.65	-6.17	52.48	74.00	-21.52	PK	Hor
5*	7651.2000	60.60	-5.41	55.19	74.00	-18.81	PK	Hor
6*	11055.5000	58.42	-3.40	55.02	74.00	-18.98	PK	Hor
7*	17526.1000	58.86	-1.83	57.03	74.00	-16.97	PK	Hor
8*	7651.2000	50.31	-5.41	44.90	54.00	-9.10	AV	Hor
9*	11055.5000	48.00	-3.40	44.60	54.00	-9.40	AV	Hor
10*	17526.1000	46.83	-1.83	45.00	54.00	-9.00	AV	Hor



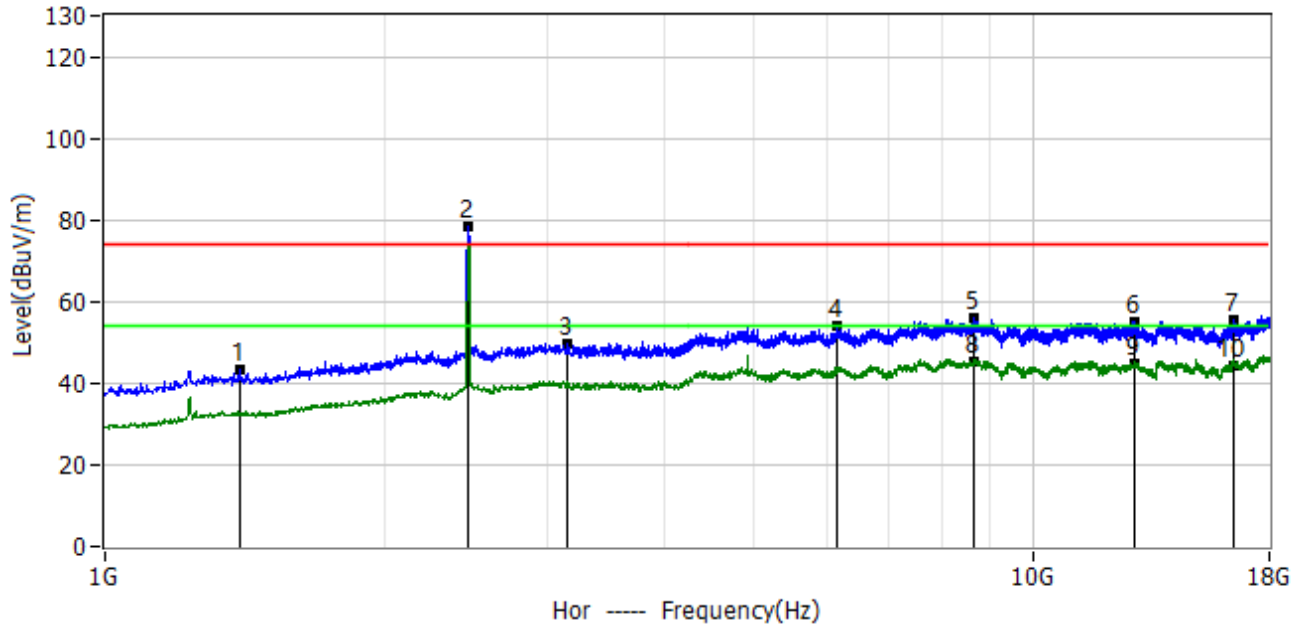
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2437	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1369.7000	63.79	-21.31	42.48	74.00	-31.52	PK	Ver
2*	2438.6000	75.40	-10.17	65.23	/	/	PK	Ver
3*	3112.2000	57.40	-7.36	50.04	74.00	-23.96	PK	Ver
4*	5828.0000	59.01	-6.12	52.89	74.00	-21.11	PK	Ver
5*	8688.2000	60.36	-5.14	55.22	74.00	-18.78	PK	Ver
6*	12519.6000	58.52	-3.95	54.57	74.00	-19.43	PK	Ver
7*	16487.0000	58.05	-3.14	54.91	74.00	-19.09	PK	Ver
8*	8688.2000	49.74	-5.14	44.60	54.00	-9.40	AV	Ver
9*	12519.6000	47.65	-3.95	43.70	54.00	-10.30	AV	Ver
10*	16487.0000	47.64	-3.14	44.50	54.00	-9.50	AV	Ver



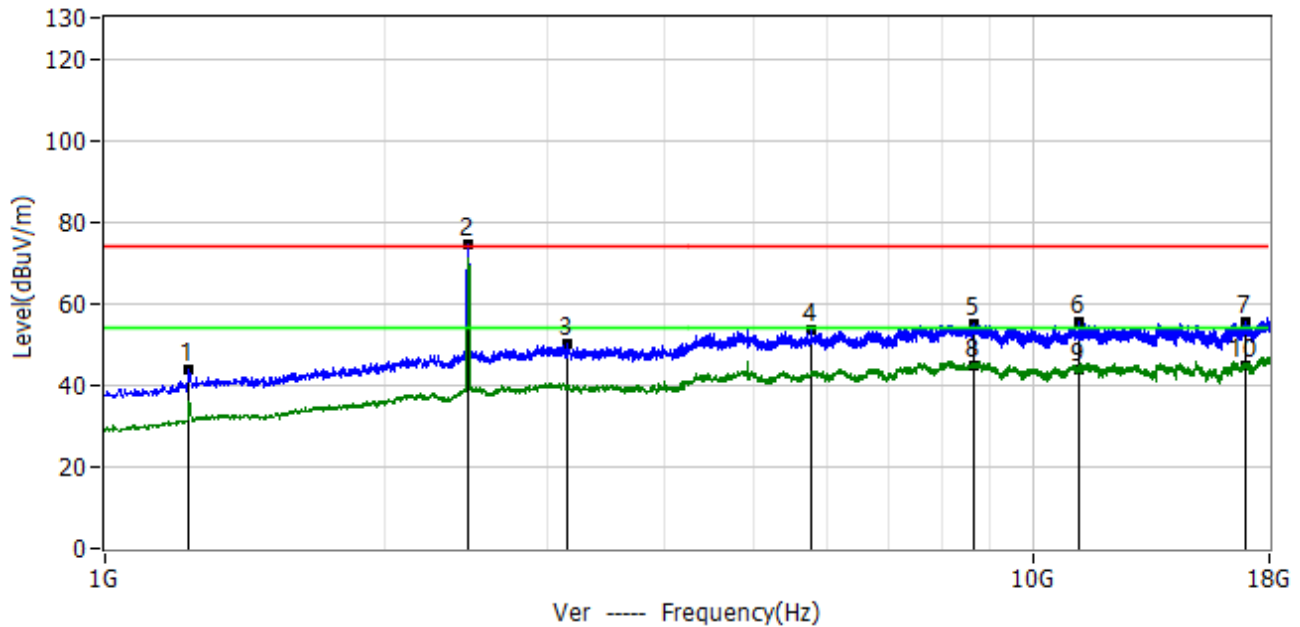
Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1395.2000	64.35	-21.04	43.31	74.00	-30.69	PK	Hor
2*	2466.2000	88.17	-9.90	78.27	/	/	PK	Hor
3*	3154.7000	57.03	-7.36	49.67	74.00	-24.33	PK	Hor
4*	6144.6000	59.99	-6.05	53.94	74.00	-20.06	PK	Hor
5*	8635.1000	61.17	-5.18	55.99	74.00	-18.01	PK	Hor
6*	12863.9000	58.65	-3.56	55.09	74.00	-18.91	PK	Hor
7*	16455.1000	58.86	-3.21	55.65	74.00	-18.35	PK	Hor
8*	8635.1000	50.38	-5.18	45.20	54.00	-8.80	AV	Hor
9*	12863.9000	48.16	-3.56	44.60	54.00	-9.40	AV	Hor
10*	16455.1000	47.61	-3.21	44.40	54.00	-9.60	AV	Hor



Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1231.6000	66.64	-22.73	43.91	74.00	-30.09	PK	Ver
2*	2464.1000	84.20	-9.92	74.28	/	/	PK	Ver
3*	3146.2000	57.69	-7.36	50.33	74.00	-23.67	PK	Ver
4*	5779.1000	59.87	-6.13	53.74	74.00	-20.26	PK	Ver
5*	8641.5000	60.36	-5.18	55.18	74.00	-18.82	PK	Ver
6*	11225.5000	58.95	-3.41	55.54	74.00	-18.46	PK	Ver
7*	17001.2000	57.69	-2.42	55.27	74.00	-18.73	PK	Ver
8*	8641.5000	50.08	-5.18	44.90	54.00	-9.10	AV	Ver
9*	11225.5000	47.31	-3.41	43.90	54.00	-10.10	AV	Ver
10*	17001.2000	47.22	-2.42	44.80	54.00	-9.20	AV	Ver

Remark:

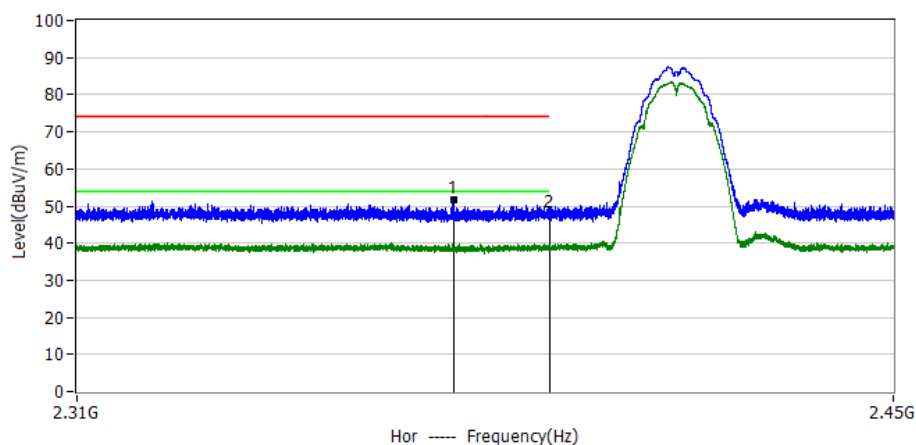
Average measurement was not performed if peak level lower than average limit. In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



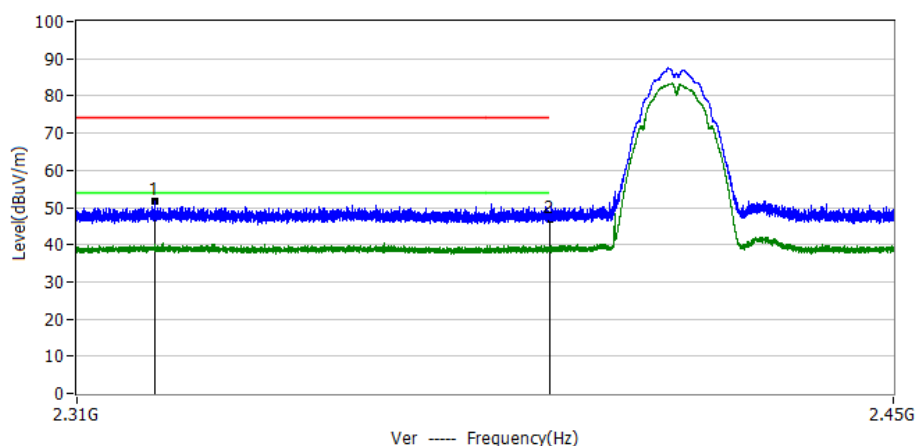
3.2.7 TEST RESULTS(Band edge Requirements)

Note:1. All mode has been tested, only shown the worst case data,
2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2412	
Note:	



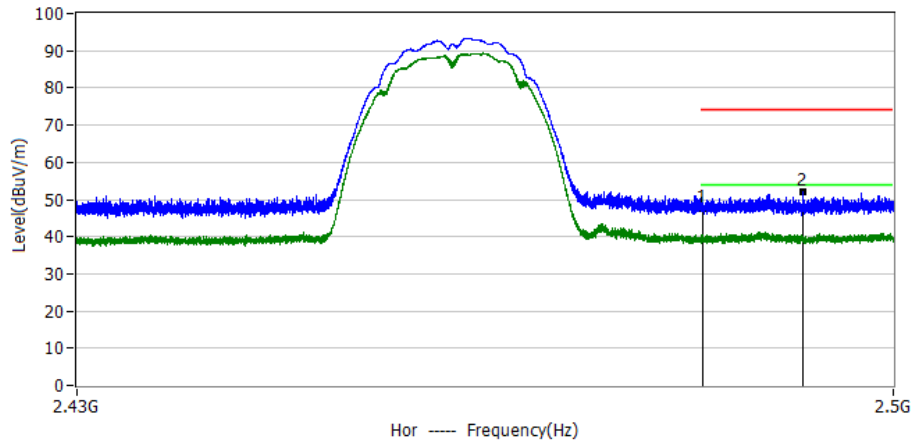
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2373.5000	17.55	33.99	51.54	74.00	-22.46	PK	Hor
2*	2390.0000	14.15	33.95	48.10	74.00	-25.90	PK	Hor



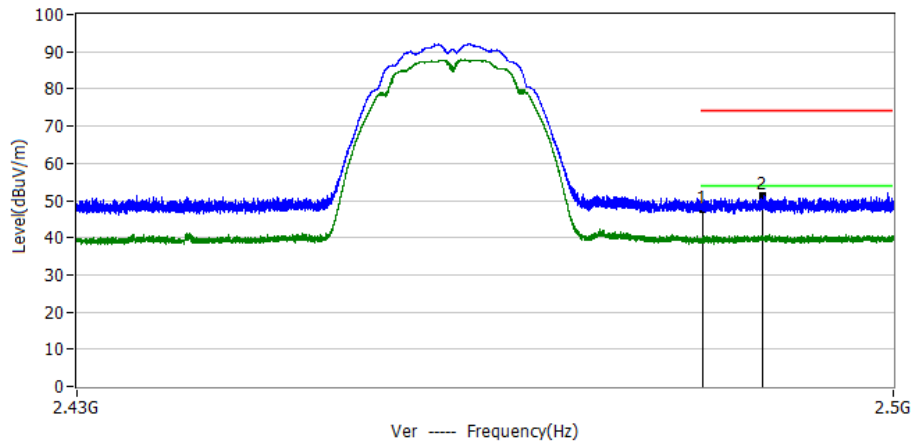
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2323.0000	17.45	34.11	51.56	74.00	-22.44	PK	Ver
2*	2390.0000	13.05	33.95	47.00	74.00	-27.00	PK	Ver



Project: LGT25C014	Test Engineer: LiuH
EUT: Botslab Video Doorbell 2 Pro (Wi-Fi HomeBase)	Temperature: 23°C
M/N: R811SH	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-03-26
Test Mode: 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	12.96	34.44	47.40	74.00	-26.60	PK	Hor
2*	2492.1000	17.47	34.45	51.92	74.00	-22.08	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	13.16	34.44	47.60	74.00	-26.40	PK	Ver
2*	2488.7000	16.72	34.45	51.17	74.00	-22.83	PK	Ver



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

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.

4.2 EUT ANTENNA

The EUT antenna is External Antenna. It comply with the standard requirement.



APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC Part 15C&IC.



APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached R811SH_EUT Photos.

※※※※※END OF THE REPORT※※※※※