

Shenzhen Toby Technology Co., Ltd.

Report No.: TBR-C-202203-0211-3 Page: 1 of 39

# Radio Test Report FCC ID: 2AF2R-39RX

### **Original Grant**

Report No.	BI	TBR-C-202203-0211-3			
Applicant	:	Shenzhen Videotimes Technology Co., Ltd			
Equipment Under 1	Fest (E	EUT)			
EUT Name	:	2.4GHz Digital Wireless Video Baby Monitor			
Model No.	1.	HB6339			
Series Model No.	÷	HB6339-2, HB6339RX, FK3963, FK3963-2, FK3963RX, BBM809, BBM809-2, BBM809RX			
Brand Name	arin				
Sample ID	:	202203-0211_01& 202203-0211-1_02			
Receipt Date	0.8	2022-08-18			
Test Date	:	2022-08-18 to 2022-09-19			
Issue Date	5	2022-09-19			
Standards	:	FCC Part 15 Subpart C 15.247			
Test Method	9:	ANSI C63.10: 2013 KDB 558074 D01 15.247 Meas Guidance v05r02			
Conclusions	in	PASS			
		In the configuration tested, the EUT complied with the standards specified above.			

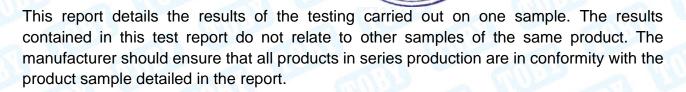
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Witness Engineer

**Engineer Supervisor** 

**Engineer Manager** 



Ray La

TB-RF-074-1.0



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# **Revision History**

Report No.	Version	Description	Issued Date
TBR-C-202203-0211-3	Rev.01	Initial issue of report	2022-09-19
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### 1. General Information about EUT

#### 1.1 Client Information

Applicant	1	Shenzhen Videotimes Technology Co., Ltd		
Address		Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-08), Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong.518000.China.		
Manufacturer		Shenzhen Videotimes Technology Co., Ltd		
Address		Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-08), Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong.518000.China.		

#### 1.2 General Description of EUT (Equipment Under Test)

EUT Name		2.4GHz Digital Wireles	s Video Baby Monitor	
Models No.	<b>.</b>	HB6339, HB6339-2, HB6339RX, FK3963, FK3963-2, FK3963RX, BBM809, BBM809-2, BBM809RX		
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is different customers, different model name.		
	5	Operation Frequency:	2.4G: 2409.5MHz~2468MHz	
Product	9	Number of Channel:	40 channels	
Description		Antenna Gain:	2dBi Monopole Antenna	
	3	Modulation Type:	GFSK	
Power Rating		Adapter: (Model: K05S050100G) Input: 100-240V~, 50/60Hz 0.2A Output: DC 5.0V, 1.0A DC 3.7V by 950mAh Li-ion battery		
Software Version		1.0		
Hardware Version		1.0		
Remark:				

(1) The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.

- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Antenna information provided by the applicant.



### (4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2409.5	14	2430.5	28	2451.5
01	2411	15	2432	29	2453
02	2412.5	16	2433.5	30	2454.5
03	2414	17	2435	31	2456
04	2415.5	18	2436.5	32	2457.5
05	2417	19	2438	33	2459
06	2418.5	20	2439.5	34	2460.5
07	2420	21	2441	35	2462
08	2421.5	22	2442.5	36	2463.5
09	2423	23	2444	37	2465
10	2424.5	24	2445.5	38	2466.5
11	2426	25	2447	39	2468
12	2427.5	26	2448.5	GRUPP -	
13	2429	27	2450		100



### 1.3 Block Diagram Showing the Configuration of System Tested

### **Conducted Test**

	EUT Adapter	
- 60		
ed Test	TOPI TOPI TOPI	
ed Test	TOBY TOBY TOBY	01
ed Test	EUT Adapter	01

#### 1.4 Description of Support Units

	Equipment Information					
Name	Model	Model FCC ID/VOC Manufacturer Used				
Adapter				V		
		Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note		
			A-102			
000	Remark: The USB Cable and adapter provided by the Applicant.					

### 1.5 Description of 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 follow was evaluated respectively.

For Conducted Test				
Final Test Mode      Description				
Mode 1 Charging+ + TX GFSK Mode Channel 00				
	For Radiated Test			
Final Test Mode Description				
Mode 1 TX GFSK Mode Channel 00				
Mode 2 TX Mode (GFSK) Channel 00/20/39				
Mode 3 Hopping Mode (GFSK)				

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: GFSK

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

### 1.6 Description of Test 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 of RF setting.

Test Software Version	2.4GTesttool		
Frequency	2409.5 MHz	2439.5MHz	2468 MHz
GFSK	DEF	DEF	DEF

#### 1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



#### 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

#### CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

#### IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

## 2. Test Summary

Standard Section	Test Kenn		l	
FCC	- Test Item	Test Sample(s)	Judgment	Remark
FCC 15.207(a)	Conducted Emission	202203-0211-1_01	PASS	N/A
FCC 15.209 & 15.247(d)	Radiated Unwanted Emissions	202203-0211-1_01	PASS	N/A
FCC 15.203	Antenna Requirement	202203-0211-1_02	PASS	N/A
FCC 15.247(a)	99% Occupied Bandwidth & 20dB Bandwidth	202203-0211-1_02	PASS	N/A
FCC 15.247(b)(1)	Peak Output Power	202203-0211-1_02	PASS	N/A
FCC 15.247(a)(1)	Carrier frequency separation	202203-0211-1_02	PASS	N/A
FCC 15.247(a)(1)	Time of occupancy	202203-0211-1_02	PASS	N/A
FCC 15.247(a)(1)	Number of Hopping Frequency	202203-0211-1_02	PASS	N/A
FCC 15.247(d)	Band Edge	202203-0211-1_02	PASS	N/A
FCC 15.207(a)	Conducted Unwanted Emissions	202203-0211-1_02	PASS	N/A
FCC 15.205	Emissions in Restricted Bands	202203-0211-1_02	PASS	N/A
	On Time and Duty Cycle	202203-0211-1_02		N/A

Note: N/A is an abbreviation for Not Applicable.

## 3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V2.6.88.0336

# 4. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 23, 2022	Jun. 22, 2023
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 23, 2022	Jun. 22, 2023
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 22, 2022	Jun. 21, 2023
LISN	Rohde & Schwarz	ENV216	101131	Jun. 22, 2022	Jun. 21, 2023
Radiation Emission T	est				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jun. 23, 2022	Jun. 22, 2023
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jun. 23, 2022	Jun. 22, 202
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 202
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2022	Feb.26, 2024
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 26, 2022	Feb.25, 202
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Feb. 26, 2022	Feb.25, 202
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Feb. 26, 2022	Feb.25, 2024
Pre-amplifier	Sonoma	310N	185903	Feb. 26, 2022	Feb.25, 2023
Pre-amplifier	HP	8449B	3008A00849	Feb. 26, 2022	Feb.25, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Feb. 26, 2022	Feb.25, 2023
Cable	HUBER+SUHNER	100	SUCOFLEX	Feb. 26, 2022	Feb.25, 2023
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted E	Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jun. 23, 2022	Jun. 22, 202
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 23, 2022	Jun. 22, 202
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 01, 2022	Aug. 31, 202
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 01, 2022	Aug. 31, 202
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 01, 2022	Aug. 31, 202
and a	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 01, 2022	Aug. 31, 202
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 01, 2022	Aug. 31, 202
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Sep. 01, 2022	Aug. 31, 202
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Sep. 01, 2022	Aug. 31, 202



### 5. Conducted Emission

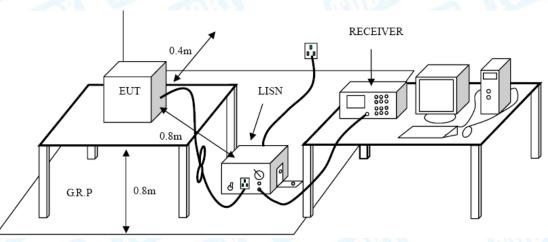
- 5.1 Test Standard and Limit
  - 5.1.1 Test Standard
    - FCC Part 15.207
  - 5.1.2 Test Limit

<b>F</b> rom the second secon	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 5.2 Test Setup



#### 5.3 Test Procedure

● The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50 uH 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 at least 80 cm from nearest part of EUT chassis.

●The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.



5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A inside test report.



### 6. Radiated and Conducted Unwanted Emissions

- 6.1 Test Standard and Limit
  - 6.1.1 Test Standard

#### FCC Part 15.209 & FCC Part 15.247(d)

6.1.2 Test Limit

General field strength limits at frequencies Below 30MHz		
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolt/meter)**	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30

**Note:** 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

General field strength limits at frequencies above 30 MHz			
Frequency (MHz)	Field strength (μV/m at 3 m)	Measurement Distance (meters)	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

General field strength limits at frequencies Above 1000MHz			
Frequency Distance of 3m (dBuV/m)			
(MHz)	Peak	Average	
Above 1000	74	54	

#### Note:

(1) The tighter limit applies at the band edges.

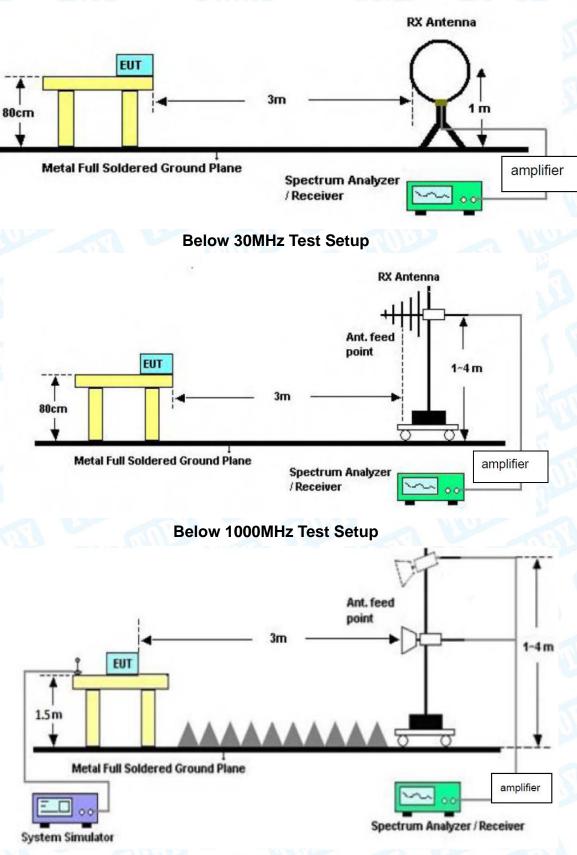
(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

#### 6.2 Test Setup

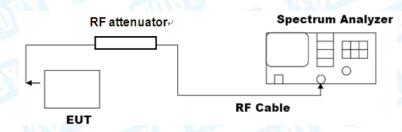
**Radiated measurement** 





Above 1GHz Test Setup Conducted measurement





#### 6.3 Test Procedure

#### ---Radiated measurement

●The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.

• Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

• The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make 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 then Quasi Peak detector mode re-measured.

● If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

● Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.

● Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

• For the actual test configuration, please see the test setup photo.

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#### --- Conducted measurement

#### Reference level measurement

- Establish a reference level by using the following procedure:
- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to≥1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW≥[3\*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

#### Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW≥[3\*RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

#### 6.4 Deviation From Test Standard

No deviation

#### 6.5 EUT Operating Mode

Please refer to the description of test mode.

#### 6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report. Conducted measurement please refer to the Appendix A.



### 7. Emissions in Restricted Bands

#### 7.1 Test Standard and Limit

7.1.1 Test Standard

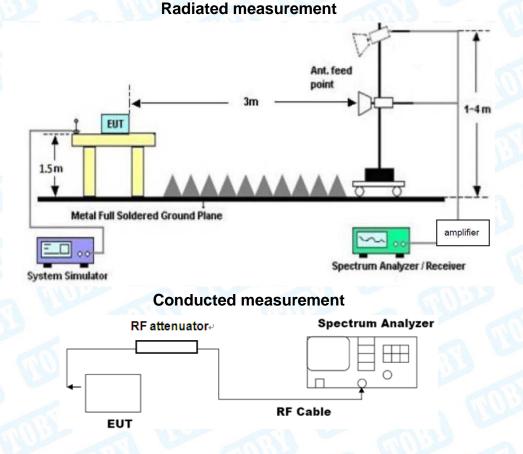
#### FCC Part 15.205 & FCC Part 15.247(d)

7.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)		
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)	
2310 ~2390	74	54	
2483.5 ~2500	74	54	
	Peak (dBm)see 7.3 e)	Average (dBm) see 7.3 e)	
2310 ~2390	-41.20	-21.20	
2483.5 ~2500	-41.20	-21.20	

Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

### 7.2 Test Setup





#### 7.3 Test Procedure

#### ---Radiated measurement

• Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

• The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make 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 then Quasi Peak detector mode re-measured.

● The Peak Value and average value both need to comply with applicable limit above 1 GHz.

● Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

• For the actual test configuration, please see the test setup photo.

#### --- Conducted measurement

a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).

c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies  $\leq$  30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).

d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).

e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

#### $E = EIRP-20 \log d + 104.8$

#### where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.



#### 7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

#### 7.6 Test Data

Remark: The test uses antenna-port conducted measurements as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements.

Please refer to the Appendix A.



### 8. 99% Occupied and 20dB Bandwidth

#### 8.1 Test Standard and Limit

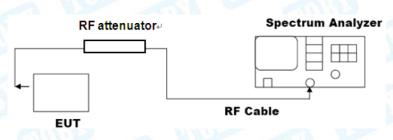
8.1.1 Test Standard

#### FCC Part 15.205 & FCC Part 15.247(a)

8.1.2 Test Limit

For an FHSS system operating in the 2400 to 2483.5 MHz band, there are no limits for 20dB bandwidth and 99% occupied bandwidth.

#### 8.2 Test Setup



#### 8.3 Test Procedure

• The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequence between these two frequencies.



h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Mode

Please refer to the description of test mode.

8.6 Test Data

Please refer to the Appendix A.



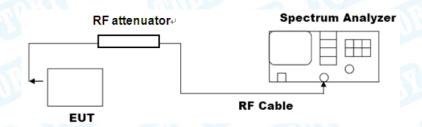
### 9. Peak Output Power Test

#### 9.1 Test Standard and Limit

- 9.1.1 Test Standard FCC Part 15.247(b)(1)
- 9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
	P <sub>max-pk</sub> ≤ 1 W	
	<i>N<sub>ch</sub></i> ≥ 75	
	f ≥ MAX { 25 kHz, BW20dB }	
	max. BW20dB not specified	
	$tch \le 0.4$ s for $T = 0.4^* Nch$	The second
Peak Output Power	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
	<i>Nch</i> ≥ 15	
	f ≥ [ MAX{25 kHz, 0.67*BW20dB}	
100 110	OR MAX{25 kHz, BW20dB} ]	
	max. BW20dB not specified	
60132	$tch \le 0.4$ s for $T = 0.4^* N_{ch}$	
	cupancy; $T =$ period; $N_{ch} = #$ hopping f = hopping channel carrier frequency s	

#### 9.2 Test Setup



#### 9.3 Test Procedure

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:
 a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW≥ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external



attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

NOTE-A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

#### 9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Mode

Please refer to the description of test mode.

9.6 Test Data

Please refer to the Appendix A.



### 10. Carrier frequency separation

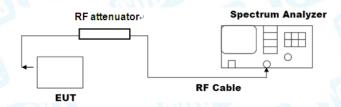
#### 10.1 Test Standard and Limit

#### 10.1.1 Test Standard FCC Part 15.247(a)(1)

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
A DOW	<i>P</i> <sub>max-pk</sub> ≤ 1 W <i>N<sub>ch</sub></i> ≥ 75	TOUS
0000	f ≥ MAX { 25 kHz, BW20dB }	angy and
6013	max. BW20dB not specified	
Corrier frequency	$tch \le 0.4$ s for $T = 0.4^* Nch$	The state of the s
Carrier frequency	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
separation	<i>Nch</i> ≥ 15	
	f ≥ [ MAX{25 kHz, 0.67*BW <sub>20dB</sub> }	
	OR MAX{25 kHz, BW20dB} ]	
	max. BW20dB not specified	
anis s	$tch \le 0.4$ s for $T = 0.4^* N_{ch}$	
	ccupancy; <i>T</i> = period; <i>N</i> <sub>ch</sub> = # hopping f <i>f</i> = hopping channel carrier frequency s	

#### 10.2 Test Setup



#### 10.3 Test Procedure

• The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a) Span: Wide enough to capture the peaks of two adjacent channels.

b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

- c) Video (or average) bandwidth (VBW)  $\ge$  RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.

g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.



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10.4 Deviation From Test Standard

No deviation

10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data

Please refer to the Appendix A.



### 11. Time of occupancy (dwell time)

#### 11.1 Test Standard and Limit

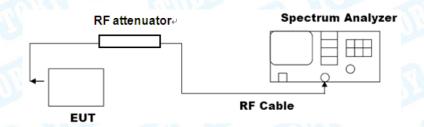
11.1.1 Test Standard

#### FCC Part 15.247(a)(1)

11.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
EOFI EOFI	$P_{max-pk} \le 1 W$ $N_{ch} \ge 75$ f ≥ MAX { 25 kHz, BW20dB } max. BW20dB not specified $t_{ch} \le 0.4 \text{ s for } T = 0.4^*N_{ch}$	
Time of occupancy (dwell time)	Pmax-pk ≤ 0.125 W $Nch \ge 15$ f ≥ [ MAX{25 kHz, 0.67*BW20dB} OR MAX{25 kHz, BW20dB} ] max. BW20dB not specified $tch \le 0.4$ s for $T = 0.4$ * $Nch$	2400~2483.5
	$tch \le 0.4  ext{ s for } T = 0.4^* N_{ch}$ ccupancy; $T =  ext{period}$ ; $N_{ch} = \#$ hopping f $f =  ext{hopping channel carrier frequency s}$	

#### 11.2 Test Setup



#### 11.3 Test Procedure

• The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a) Span: Zero span, centered on a hopping channel.

b) RBW shall be  $\Box$  channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

d) Detector function: Peak.

e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies



with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) =

(number of hops on spectrum analyzer)x(period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

#### 11.4 Deviation From Test Standard

No deviation

#### 11.5 Antenna Connected Construction

Please refer to the description of test mode.

#### 11.6 Test Data

Please refer to the Appendix A.



### 12. Number of hopping frequencies

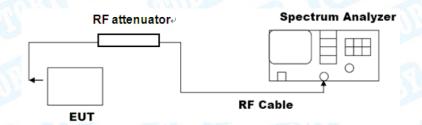
- 12.1 Test Standard and Limit
  - 12.1.1 Test Standard

### FCC Part 15.247(a)(1)

12.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
	<i>P</i> <sub>max-pk</sub> ≤ 1 W	
	N <sub>ch</sub> ≥ 75	
	f ≥ MAX { 25 kHz, BW20dB }	
6039	max. BW20dB not specified	
	$tch \le 0.4$ s for $T = 0.4^* Nch$	and the second
Carrier frequency	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
separation	<i>Nch</i> ≥ 15	
	f ≥ [ MAX{25 kHz, 0.67*BW20dB}	
	OR MAX{25 kHz, BW20dB} ]	
	max. BW20dB not specified	
6085	$tch \le 0.4$ s for $T = 0.4^* N_{ch}$	
	ccupancy; $T =$ period; $N_{ch} = #$ hopping f f = hopping channel carrier frequency s	

#### 12.2 Test Setup



#### 12.3 Test Procedure

• The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

c) VBW ≥ RBW.

- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the

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#### hopping frequencies.

Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

12.4 Deviation From Test Standard

No deviation

12.5 Antenna Connected Construction

Please refer to the description of test mode.

12.6 Test Data

Please refer to the Appendix A.



### 13. Antenna Requirement

#### 13.1 Test Standard and Limit

#### 11.1.1 Test Standard FCC Part 15.203

11.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. 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.

#### 13.2 Deviation From Test Standard

No deviation

#### 13.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 2dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

#### 13.4 Test Data

The EUT antenna is a Monopole Antenna. It complies with the standard requirement.

Antenna Type							
	Permanent attached antenna	101					
	Unique connector antenna	2					
N X	Professional installation antenna	1.2					

### **Attachment A-- Conducted Emission Test Data**

	- 1×-			20			-	14	22302					-	24
Т	emp	eratur	e:	24.3°	2	1		Rel	ative	Hun	nidity:	4	3%	90	DE
Т	est \	<b>Voltag</b>	e:	AC 12	20V/60H	z	2	d.		13	1	1	120	622	
Т	ermi	inal:		Line	1 6		11.7		3				110 Part	~	2
Т	est I	Mode:		Mode	1		U		A	1			5	10	
F	Rema	ark:		Only	worse ca	se is	reporte	ed.		Y		6	<u>a</u> v		R
	80.0	dBu¥				-									_
6													QP: AVG:	_	
		_													1
		_													-
			X				×.								
	s.	m	manil	WMM	an	Mader	he sheets he had an	Why	×	×					1
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4		m	NW 1	May Marin	- 101	M	- Y	Myrule Walt	m	Kayy		~~~~	whe porter u	manne	
				ılı.					v	L'4ª	University	m	- Anna	1	peak
														more	AVG
															1
															{
-	20														
	0.150			0.5			(MHz)			5				30.00	0
			_		Readi	-	Corre		Mea				0		
	NO.	Mk.	Fr	eq.	Leve		Facto	or	m	ent	Lim	III	Over		
			М	Hz	dBuV		dB		dB	uV	dBu	١V	dB	Deteo	ctor
	1		0.3	540	27.57	7	10.88	3	38.	45	58.8	87	-20.42	Q	Ρ
	2	*	0.3	540	19.65	5	10.88	3	30.	53	48.8	87	-18.34	A	VG
1	3		0.7	740	25.77	7	10.83	3	36.	60	56.0	00	-19.40	Q	Ρ
	4		0.7	740	15.22	2	10.83	3	26.	05	46.0	00	-19.95	A	VG
	5		1.5	500	24.69	)	10.58	3	35.	27	56.0	00	-20.73	Q	Ρ

10.58

10.12

10.12

10.04

10.04

10.58

10.58

24.67

31.16

21.25

28.57

17.69

19.72

12.00

46.00 -21.33

56.00 -24.84

46.00 -24.75

56.00 -27.43

46.00 -28.31

60.00 -40.28

50.00 -38.00

Remark:

6

7

8

9

10

11

12

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

14.09

21.04

11.13

18.53

7.65

9.14

1.42

1.5500

3.7420

3.7420

4.7420

4.7420

18.1299

18.1299

2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)

AVG

QP

AVG

QP

AVG

QP

AVG

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<b>Femperatur</b>	e: 24.3	$^{\circ}\mathbb{C}$		<b>Relative Hu</b>	midity:	43%	
est Voltag	e: AC	120V/60Hz			30		AUS
Ferminal:	Neu	tral				5	100
est Mode:	Moc	e 1	anti	2	11		
Remark:	Only	worse case	is reported.	600		- 5	NOU
80.0 dBuV						QP:	
						AVG:	
		X					
MALAN .		WANTER THE	1 Martin May and Western	al Annua		×	
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					men marker	the weather	Low Al
0.150	0.5		(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct	Measure-	Limit	Over	
NO. WIK.	MHz	dBuV	Factor dB	dBuV	dBuV	dB	Detecto
1	0.3540	24.25	10.93	35.18	58.87		QP
2	0.3540	13.09	10.93	24.02	48.87	-24.85	AVG
3 *	0.7220	24.15	10.86	35.01	56.00	-20.99	QP
4	0.7220	12.59	10.86	23.45	46.00	-22.55	AV
5	1.6500	23.60	10.60	34.20	56.00	-21.80	QP
6	1.6500	12.07	10.60	22.67	46.00	-23.33	AVC
7	2.0980	19.69	10.50	30.19	56.00	-25.81	QP
8	2.0980	6.45	10.50	16.95	46.00	-29.05	AV
9	3.7500	19.34	10.14	29.48	56.00	-26.52	QP
10	3.7500	8.22	10.14	18.36		-27.64	AV
11	17.0100	11.27	10.43	21.70		-38.30	QP
	17.0100	0.65	10.43	11.08		-38.92	AVO
12	11.0100						

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB) 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)



### **Attachment B--Unwanted Emissions Data**

#### ---Radiated Unwanted Emissions

#### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

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

#### 30MHz~1GHz

emperature:	<b>23.5</b> ℃	Relativ	ve Humidity:	46%
est Voltage:	AC 120V/60Hz			
nt. Pol.	Horizontal		6002	
est Mode:	Mode 2			
emark:	Only worse cas	se is reported.		WVV-
80.0 dBuV/m				
30 1 - 2 X - X M - M - M - M - M - M - M - M - M - M -	M. M. Marina	WWWWWWWWWW		5C 3M Radiation Margin -6 dB
-20 30.000 40 5	0 60 70	(MHz)	300 400 5	500 600 700 1000.0

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		30.2111	23.89	-8.58	15.31	40.00	-24.69	peak
2		32.6340	25.88	-10.58	15.30	40.00	-24.70	peak
3		91.4949	26.56	-15.01	11.55	43.50	-31.95	peak
4		303.5437	27.86	-8.09	19.77	46.00	-26.23	peak
5		517.2480	27.12	-3.60	23.52	46.00	-22.48	peak
6	*	925.7563	27.02	3.53	30.55	46.00	-15.45	peak

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

#### Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Lèvel (dB $\mu$ V)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)

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Temperature:	<b>23.5℃</b>	R	elative Humic	lity:	46%	
Test Voltage:	AC 120V/60Hz	51 6				AD
Ant. Pol.	Vertical	10	a 199	-	117	
Fest Mode:	Mode 2	anti	2	11		
Remark:	Only worse case	is reported.	and i		IT I	(D)
80.0 dBuV/m						
30	2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		4 5 	(RF)FCC	15C 3M Radiation Margin -6	
20 30.000 40 !	50 60 70 80	(MHz)	300	400	500 600 700	1000.00
No. Mk.	Reading Freq. Level	Correct Factor	Measure- ment	Limit	Over	
	MHz dBuV	dB/m	dBuV/m	dBuV/m	n dB	Detecto
1 45	6.0583 41.44	-16.70	24.74	40.00	-15.26	peal
2 60	.9176 37.03	-16.87	20.16	40.00	-19.84	peal
3 10	3.0800 34.82	-15.11	19.71	43.50	-23.79	peal
4 25	6.5211 28.65	-10.89	17.76	46.00	-28.24	peal
200						
	6.9823 28.86	-9.31	19.55	46.00	-26.45	peal

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

#### Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
  QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

#### Above 1-25GHz

Temperature:	<b>23.5℃</b>	Relative Humidity:	46%
Test Voltage:	DC 3.7V	au	2
Ant. Pol.	Horizontal		23
Test Mode:	TX GFSK Mode 2409.5MHz		

N	lo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	ł	4819.487	34.45	8.96	43.41	54.00	-10.59	AVG
2			4819.684	45.39	8.96	54.35	74.00	-19.65	peak

#### Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.5℃	Relative Humidity:	46%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX GFSK Mode 2409.5MHz							

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4819.487	34.07	8.96	43.03	54.00	-10.97	AVG
2		4819.651	45.30	8.96	54.26	74.00	-19.74	peak

#### Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB $\mu$ V/m)-Limit PK/AVG(dB $\mu$ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.



	Relative Humidity:	46%					
DC 3.7V							
Horizontal							
TX GFSK Mode 2439.5MHz							
	ode 2439.5M	ode 2439.5MHz					

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4879.356	33.95	9.28	43.23	54.00	-10.77	AVG
2			4879.542	45.12	9.28	54.40	74.00	-19.60	peak

#### Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	<b>23.5℃</b>	Relative Humidity:	46%
Test Voltage:	DC 3.7V		20132
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2439.5MHz	(1))Y	

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4879.516	34.08	9.28	43.36	54.00	-10.64	AVG
2			4879.626	46.12	9.28	55.40	74.00	-18.60	peak

#### Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.



								G1 14: 3	
Temperature:		re:	23.5	°C		Relative H	lumidity:	46%	
Test V	Test Voltage: DC 3.7V					30		NUP	
Ant. F	Pol.	I. Horizontal					12		
Test I	Mode	:	TX G	FSK Mode	2468MHz	1	, QU		
No	. Mk.	Free	<b>į</b> .	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4936.4	54	33.49	9.60	43.09	54.00	-10.91	AVG
2		4936.5	36	45.70	9.60	55.30	74.00	-18.70	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

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3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	<b>23.5℃</b>	Relative Humidity:	46%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2468MHz		

	No. Mk. Fred		Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
-	1	*	4936.369	33.43	9.60	43.03	54.00	-10.97	AVG
2	2		4936.489	44.63	9.60	54.23	74.00	-19.77	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

--END OF REPORT-----