

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202403-0384-1

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Radio Test Report FCC ID: 2AF2R-52RX

Change II

Report No. : TBC-C-202403-0384-1

Applicant: Shenzhen Videotimes Technology Co.,Ltd

Equipment Under Test (EUT)

EUT Name : 2.4GHz Digital Wireless Video Baby Monitor

Model No. : HB6550

HB6550-2, HB6250, HB6250-2, HB6350, HB6350-2, VT502,

Series Model No. : VT502-2, JA2216, JA2216-2, FK5163, FK5163-2, BL9052,

BL9052-2, CF6851, CF6851-2

Brand Name : ---

Sample ID : RW-C-202403-0384-1#

Receipt Date : 2024-04-07

Test Date : 2024-04-07 to 2024-04-09

Issue Date : 2024-04-09

Standards : FCC Part 15, Subpart C 15.247

Test Method : ANSI C63.10: 2013

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

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Tested By :

Reviewed By : Henry Hum

Approved By : WAN SV

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202403-0384-1	Rev.01	Initial issue of report	2024-04-09
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1. General Information about EUT

1.1 Client Information

Applicant : Shenzhen Videotimes Technology Co., Ltd					
Address Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-0 : Gangtou Community, Bantian Street, Longgang District, Shenzher Guangdong. China					
Manufacturer : Shenzhen Videotimes Technology Co., Ltd		Shenzhen Videotimes Technology Co., Ltd			
Room 2106, Building 11, Tianan Yungu Phase II(Plot of Gangtou Community, Bantian Street, Longgang District,		Room 2106, Building 11, Tianan Yungu Phase II(Plot of Land 02-08), Gangtou Community, Bantian Street, Longgang District, Shenzhen, Guangdong. China			

1.2 General Description of EUT (Equipment Under Test)

EUT Name		2.4GHz Digital Wireless \	/ideo Baby Monitor		
Models No. HB6550, HB6550-2, HB6250, HB6250-2, HB6350, HB6350-2, VT502, VT502-2, JA2216, JA2216-2, FK5163, FK5163-2, BL9052, BL9052-2, CF6851, CF6851-2					
Model Difference		All these models are identical in the same PCB, layout and electrical circuit the only difference is model name.			
		Operation Frequency:	2.4GHz: 2412MHz~2469MHz		
Product		Number of Channel: 58 Channels See Note 2			
Description		Antenna Gain:	2.25dBi Dipole Antenna		
	d	Modulation Type:	GFSK		
Power Rating		AC Adapter #1 (Model: K Input: 100-240V~50/60Hz Output: 5.0V—1.0A AC Adapter #2 (Model: A Input: 100-240V~50/60Hz Output: 5.0V—1.0A DC 3.7V by 3500mAh 12	z, 0.2A 318-050100W-US2):		
Software Version					
Hardware Version	9	1.1			

Remark

The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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



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(2) Channel List:

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
00	2412	20	2432	40	2452		
01	2413	21	2433	41	2453		
02	2414	22	2434	42	2454		
03	2415	23	2435	43	2455		
04	2416	24	2436	44	2456		
05	2417	25	2437	45	2457		
06	2418	26	2438	46	2458		
07	2419	27	2439	47	2459		
08	2420	28	2440	48	2460		
09	2421	29	2441	49	2461		
10	2422	30	2442	50	2462		
11	2423	31	2443	51	2463		
12	2424	32	2444	52	2464		
13	2425	33	2445	53	2465		
14	2426	34	2446	54	2466		
15	2427	35	2447	55	2467		
16	2428	36	2448	56	2468		
17	2429	37	2449	57	2469		
18	2430	38	2450				
19	2431	39	2451				

Note: Test frequencies are lowest channel: 2412MHz, middle channel: 2442MHz and highest channel: 2469MHz.

- (3) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

Adapter & TX Mode

No.	Adapter	EUT		





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1.4 Description of Support Units

The EUT has been tested as an independent unit.

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 Adapter#1+ TX Mode Channel 00						
Mode 2 Adapter#2+ TX Mode Channel 00						
	For Radiated Test					
Final Test Mode	Description					
Mode 1 Adapter#1+ TX Mode Channel 00						
Mode 2	Adapter#2+ TX Mode Channel 00					

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. We have pretested all the test modes above.

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) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane as the normal use. Therefore only the test data of this X-plane was used for radiated emission measurement test.





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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 Bluetooth mode.

Test Software Version		I the corresponding tran	
Frequency	2412MHz	2442MHz	2469MHz
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 _{Lab})
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	±4.20 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB





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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.





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2. Test Summary

Standard Section	To ad Maria	T (O - (-)		t D	
FCC	Test Item	Test Sample(s)	JudgmentRemarkN/AN/APASSN/AN/AN/AN/AN/AN/AN/A		
FCC 15.207(a)	Conducted Emission		N/A	N/A	
FCC 15.209 & 15.247(d)	Radiated Unwanted Emissions	RW-C-202403-0384-1#	PASS	N/A	
FCC 15.203	Antenna Requirement	(B) / (N/A	N/A	
FCC 15.247(a)	99% Occupied Bandwidth & 20dB Bandwidth	- (B)	N/A	N/A	
FCC 15.247(b)(1)	Peak Output Power	my 1	N/A	N/A	
FCC 15.247(a)(1)	Carrier frequency separation		N/A	N/A	
FCC 15.247(a)(1)	Time of occupancy		N/A	N/A	
FCC 15.247(b)(1)	Number of Hopping Frequency		N/A	N/A	
FCC 15.247(d)	Band Edge	The Land	N/A	N/A	
FCC 15.207(a)	Conducted Unwanted Emissions		N/A	N/A	
FCC 15.205	Emissions in Restricted Bands		N/A	N/A	

Note:

- (1) N/A is an abbreviation for Not Applicable.
- (2) This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report.
- (3) As there is no change regard RF transmitter portion and Antenna assembly, the change will not have effect on Radiated emission above 1GHz by judging for experience, thus testing is performed up to 1GHz only.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Radiation Emission	EZ-EMC	EZ	FA-03A2RE+
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V3.2.22





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4. Test Equipment

Radiation Emission	Radiation Emission Test (B Site)								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024				
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024				
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025				
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025				
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 26, 2022	Jun.25, 2024				
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026				
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024				
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024				
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024				
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024				





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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209 & FCC Part 15.247(d)

5.1.2 Test Limit

Radiated Emission Limit (9 kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/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

Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance Meters(at 3m)				
(MHz)	Peak	Average			
Above 1000	74	54			

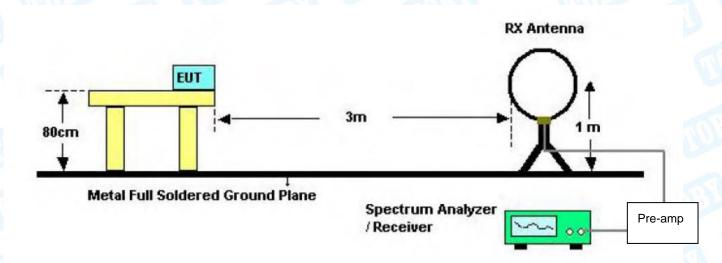
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

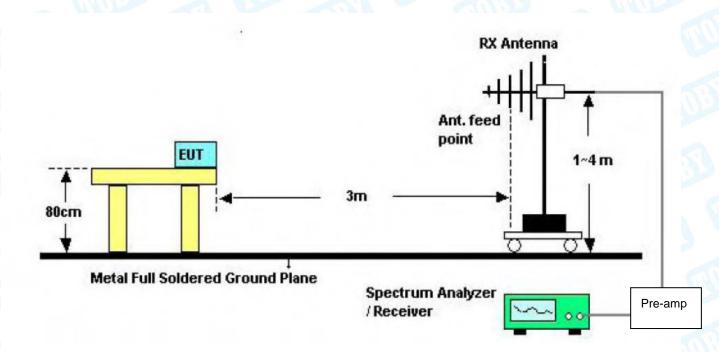




5.2 Test Setup



Below 30MHz Test Setup



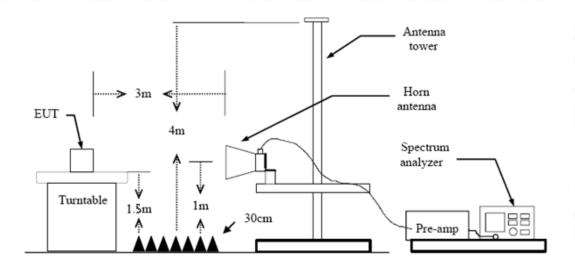
Below 1000MHz Test Setup





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Above 1GHz Test Setup

5.3 Test Procedure

- (1) 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.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m 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.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 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.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) 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.
- (8) For the actual test configuration, please see the test setup photo.





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5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.6 Test Data

Remark: During testing 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.

Please refer to the Attachment A.







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Attachment A-- Radiated Emission Test Data

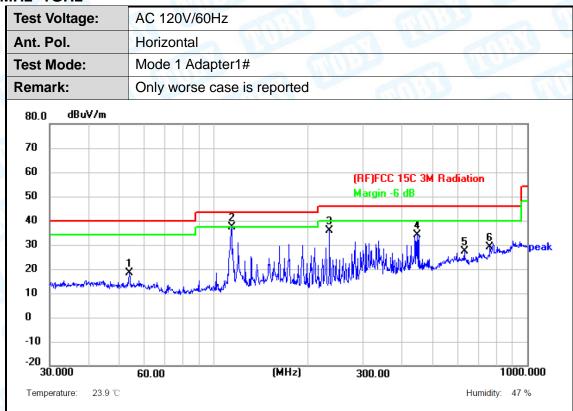
9KHz~30MHz

From 9KHz to 30MHz: 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

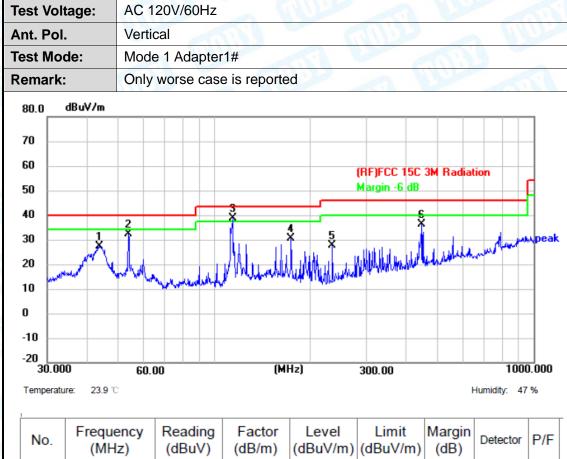


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	53.8817	42.78	-24.53	18.25	40.00	-21.75	peak	Р
2 *	114.1137	61.65	-24.31	37.34	43.50	-6.16	peak	Р
3	234.1683	60.03	-24.14	35.89	46.00	-10.11	peak	Р
4	444.8514	51.89	-17.66	34.23	46.00	-11.77	peak	Р
5	631.6883	40.46	-13.30	27.16	46.00	-18.84	peak	Р
6	760.7033	40.79	-11.85	28.94	46.00	-17.06	peak	Р





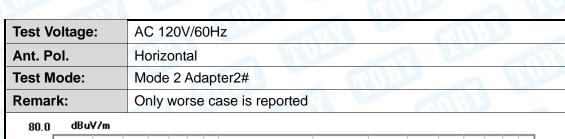
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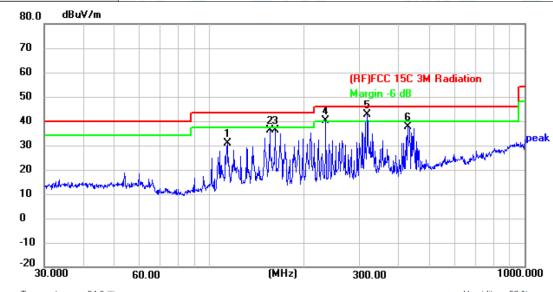


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	43.8119	51.43	-23.93	27.50	40.00	-12.50	peak	Р
2	53.8818	56.91	-24.53	32.38	40.00	-7.62	peak	Р
3 *	114.1138	63.19	-24.31	38.88	43.50	-4.62	peak	Р
4	173.8135	53.50	-23.01	30.49	43.50	-13.01	peak	Р
5	234.1684	51.87	-24.14	27.73	46.00	-18.27	peak	Р
6	444.8514	54.04	-17.66	36.38	46.00	-9.62	peak	Р







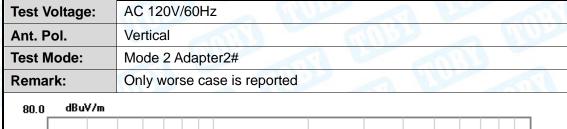


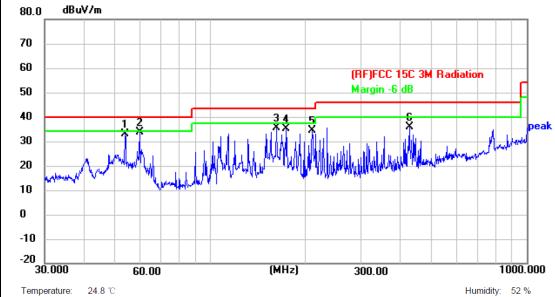
Humidity: 52 % Temperature: 24.8 ℃

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	114.1138	55.08	-24.31	30.77	43.50	-12.73	peak	Р
2	155.9101	57.94	-21.75	36.19	43.50	-7.31	peak	Р
3	162.0414	58.14	-21.88	36.26	43.50	-7.24	peak	Р
4!	234.1684	64.27	-24.14	40.13	46.00	-5.87	peak	Р
5 *	317.7011	62.91	-20.36	42.55	46.00	-3.45	peak	Р
6	426.5210	55.80	-17.96	37.84	46.00	-8.16	peak	Р









No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	53.8818	57.52	-24.53	32.99	40.00	-7.01	peak	Р
2 *	59.8588	58.06	-24.36	33.70	40.00	-6.30	peak	Р
3	162.0414	57.49	-21.88	35.61	43.50	-7.89	peak	Р
4	173.8135	58.14	-23.01	35.13	43.50	-8.37	peak	Р
5	210.0482	58.47	-24.12	34.35	43.50	-9.15	peak	Р
6	426.5210	53.92	-17.96	35.96	46.00	-10.04	peak	Р







Temperature:	24 °C	Relative Humidity:	52%
Test Voltage:	DC 3.7V	www.	A AMOUNT
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2412MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	10894.000	43.79	-0.19	43.60	74.00	-30.40	peak	Р
2	13138.000	41.43	1.88	43.31	74.00	-30.69	peak	Р

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 μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- $\bf 5.\ \bar{N}o$ report for the emission which more than 20dB below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.

Temperature:	24 °C	Relative Humidity:	52%
Test Voltage:	DC 3.7V	OW .	
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2412MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	10919.500	43.83	-0.13	43.70	74.00	-30.30	peak	Р
2	13801.000	41.12	2.44	43.56	74.00	-30.44	peak	Р

- 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 μ V/m)-Limit PK/AVG(dB μ 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.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24℃	Relative Humidity:	52%
Test Voltage:	DC 3.7V	anno e	AMOUNT
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2442MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	11302.000	43.19	0.47	43.66	74.00	-30.34	peak	Р
2 *	13546.000	42.11	2.22	44.33	74.00	-29.67	peak	Р

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 μ V/m)-Limit PK/AVG(dB μ 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.
- 6. The peak value < average limit, So only show the peak value.

Temperature:	24℃	Relative Humidity:	52%
Test Voltage:	DC 3.7V		3 100
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2442MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	10996.000	43.70	0.05	43.75	74.00	-30.25	peak	Р
2	14413.000	39.85	3.04	42.89	74.00	-31.11	peak	Р

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 μ V/m)-Limit PK/AVG(dB μ 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.
- 6. The peak value < average limit, So only show the peak value.







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Temperature:	24 °C	Relative Humidity:	52%
Test Voltage:	DC 3.7V	WW CONTRACTOR	ALC:
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2469MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	11302.000	42.45	0.47	42.92	74.00	-31.08	peak	Р
2 *	13571.500	41.30	2.25	43.55	74.00	-30.45	peak	Р

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 μ V/m)-Limit PK/AVG(dB μ 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.
- 6. The peak value < average limit, So only show the peak value.

Temperature:	24℃	Relative Humidity:	52%
Test Voltage:	DC 3.7V	CHILL	
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2469MHz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	11761.000	40.42	1.12	41.54	74.00	-32.46	peak	Р
2 *	13444.000	42.00	2.14	44.14	74.00	-29.86	peak	Р

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 μ V/m)-Limit PK/AVG(dB μ 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.
- 6. The peak value < average limit, So only show the peak value.

----END OF THE REPORT----

