



RF Test Report

FCC ID: 2BDR5-60R

Change II

Report No. : TBR-C-202507-0245-4

Applicant : Videotimes Technology (Hubei) Co., Ltd

Equipment Under Test (EUT)

EUT Name : 2.4GHz Digital Wireless Video Baby Monitor

Model No. : HB60RX

Series Model No. : HB6560-2, BBM861, HB6260, HB6260-2, BBM862, HB6361, HB6361-2, BBM863, HB6062, HB6062-2, BBM864, HB6262, HB6262-2, BBM865, HB6263, HB6263-2, BBM866, HB6763, HB6763-2, BBM867, HB6164, HB6164-2, BBM868, HB6364, HB6364-2, BBM869, VT603, VT603-2, FK6260, FK6260-2, BL9064, BL9064-2, HB6362, HB6362-2, BG1062, BG1062-2, HB6560,

Brand Name : ----

Sample ID : HC-C-202507-0245-01-1# HC-C-202507-0245-01-2#

Receipt Date : 2025-08-06

Test Date : 2025-08-06 to 2025-08-14

Issue Date : 2025-08-14

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,

Tested By : ZKN Zhou

ZKN Zhou

Reviewed By : Henry Huang

Henry Huang

Approved By : Ivan Su

Ivan Su



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.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202507-0245-4	Rev.01	Initial issue of report	2025-08-14



1. General Information about EUT

1.1 Client Information

Applicant	:	Videotimes Technology (Hubei) Co., Ltd
Address	:	B5-1,B5-2, Electronic Information Industry Park, Wuxue, Huanggang, Hubei, China.
Manufacturer	:	Videotimes Technology (Hubei) Co., Ltd
Address	:	B5-1,B5-2, Electronic Information Industry Park, Wuxue, Huanggang, Hubei, China.

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	2.4GHz Digital Wireless Video Baby Monitor	
Models No.	:	HB60RX, HB6560-2, BBM861, HB6260, HB6260-2, BBM862, HB6361, HB6361-2, BBM863, HB6062, HB6062-2, BBM864, HB6262, HB6262-2, BBM865, HB6263, HB6263-2, BBM866, HB6763, HB6763-2, BBM867, HB6164, HB6164-2, BBM868, HB6364, HB6364-2, BBM869, VT603, VT603-2, FK6260, FK6260-2, BL9064, BL9064-2, HB6362, HB6362-2, BG1062, BG1062-2, HB6560,	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name.	
Product Description	:	Operation Frequency:	2.4G: 2412MHz~2469MHz
		Number of Channel:	58 Channels See Note 2
		Antenna Gain:	2.5dBi Internal Antenna
		Modulation Type:	GFSK
Power Rating	:	AC Adapter #1 (K05S050100U) Input: 100-240V~50/60Hz, 0.2A Output: 5.0V=1.0A AC Adapter #2 (A318-050100W-US2) Input: 100-240V~50/60Hz, 0.2A Output: 5.0V=1.0A DC 3.7V by 4000mAh 14.8Wh Rechargeable Li-ion battery	
Software Version	:	1.0	
Hardware Version	:	1.1	

Remark: The adapter and antenna gain from the manufacturer, the verified for the RF conduction test provided by TOBY test lab. 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.

Note:

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



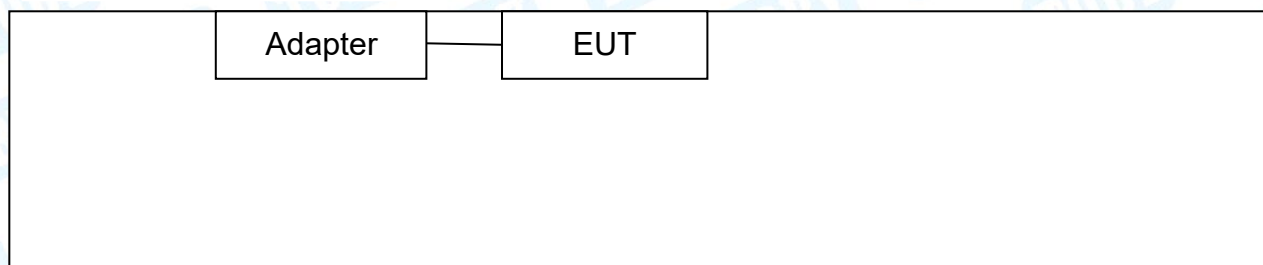
(2) Channel List:

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



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 3	Adapter#1+ TX Mode Channel 00
Mode 4	Adapter#2+ TX Mode Channel 00
Mode 5	TX Mode Channel 00/30/57
Mode 6	Hopping TX Mode
Note: An equivalent battery with the same parameters has been added. However, the manufacturer of the battery is different, so only the test for Radiated Emission 30-1GHz has been evaluated. Other items do not need to be assessed as they will not have any impact.	

- (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.



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	Adjust and control the corresponding transmission frequency through the EUT entity key.		
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



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

Radiation Emission Test (B Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 29, 2024	Aug. 28, 2025
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 22, 2025	Feb. 21, 2026
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb. 26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 29, 2024	Aug. 28, 2025
Highpass Filter	CD	HPM-6.4/18G	---	N/A	N/A
Highpass Filter	CD	HPM-2.8/18G	---	N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A

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	JS1120-3	Tonscend	V3.2.22



4. Test Equipment and Test Site

Test Site				
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	X
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	X
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	√



5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.207

5.1.2 Test Limit

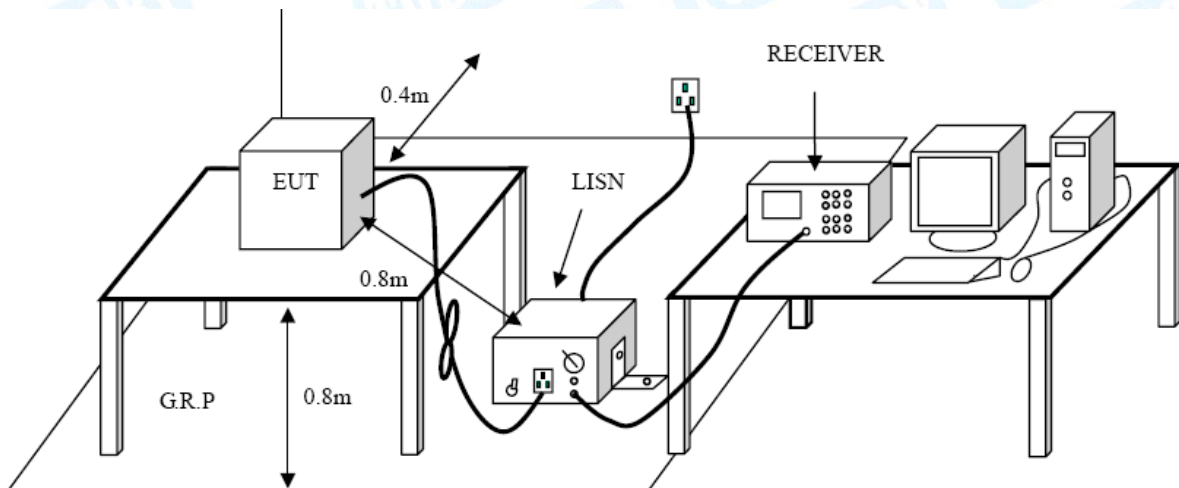
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	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/ 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 at least 80 cm from nearest part of EUT chassis

The bandwidth of EMI test receiver is set at 9kHz, 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

N/A



6. Radiated Emission Test

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

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)

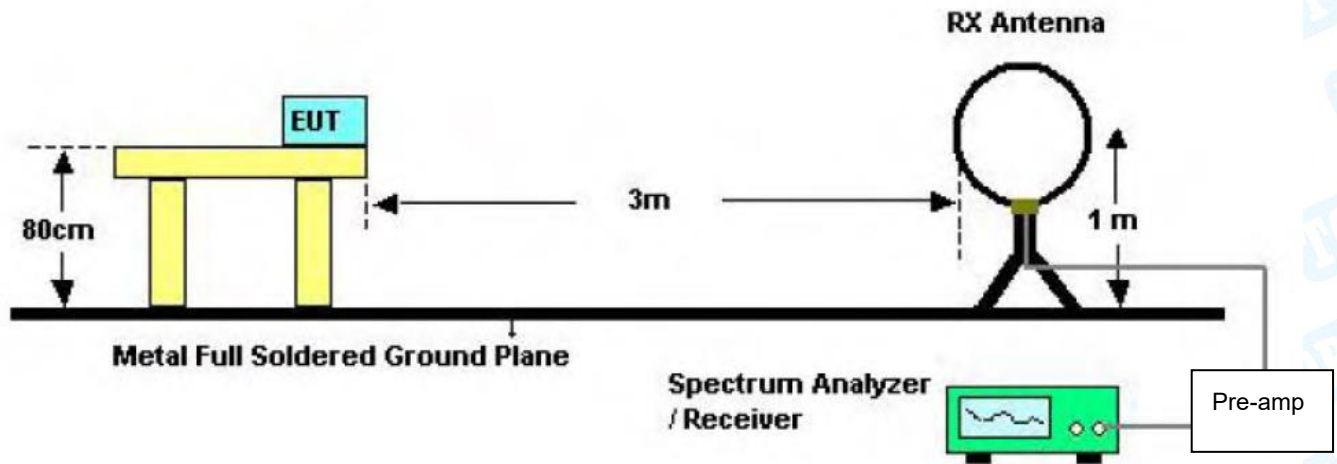
Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

Note:

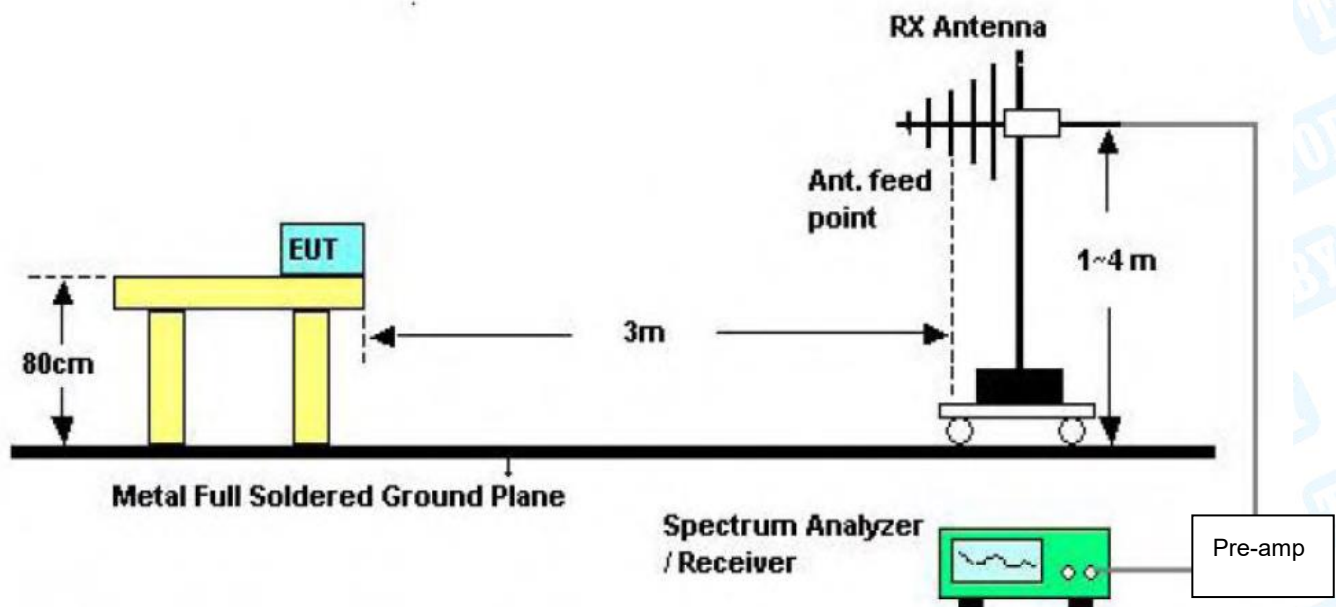
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)



6.2 Test Setup

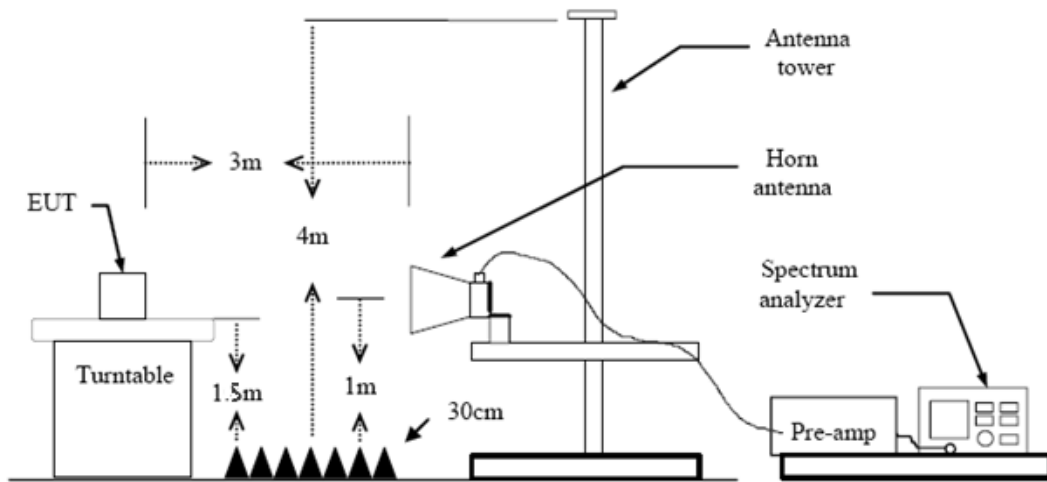


Below 30MHz Test Setup



Below 1000MHz Test Setup





Above 1GHz Test Setup

6.3 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.



6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

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

6.6 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.



Attachment A-- Radiated Emission Test Data

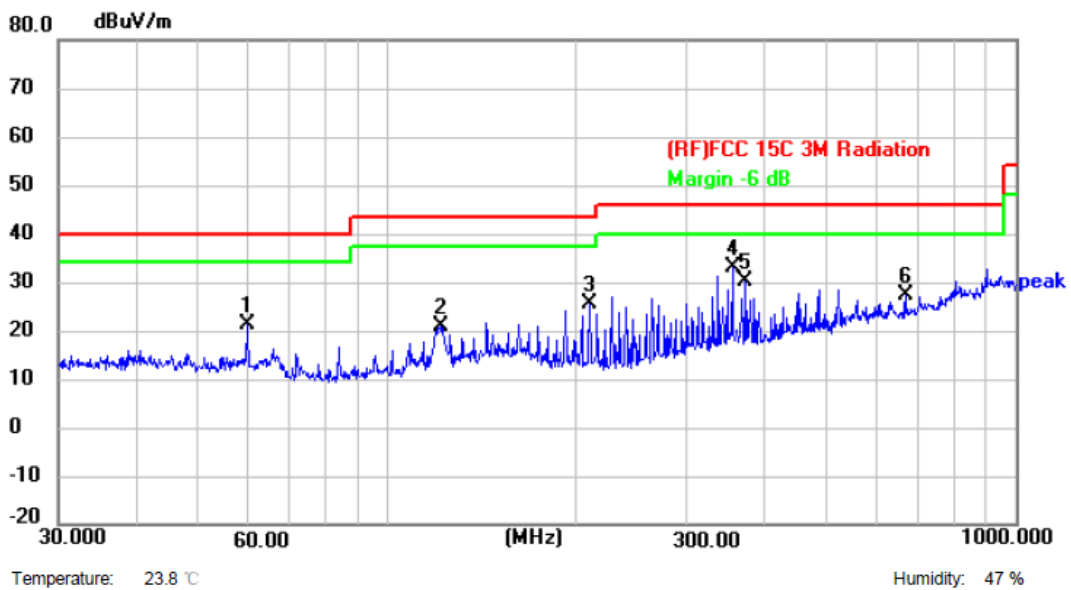
9KHz~30MHz

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

Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	Mode 3 Adapter1#
Remark:	Only worse case is reported

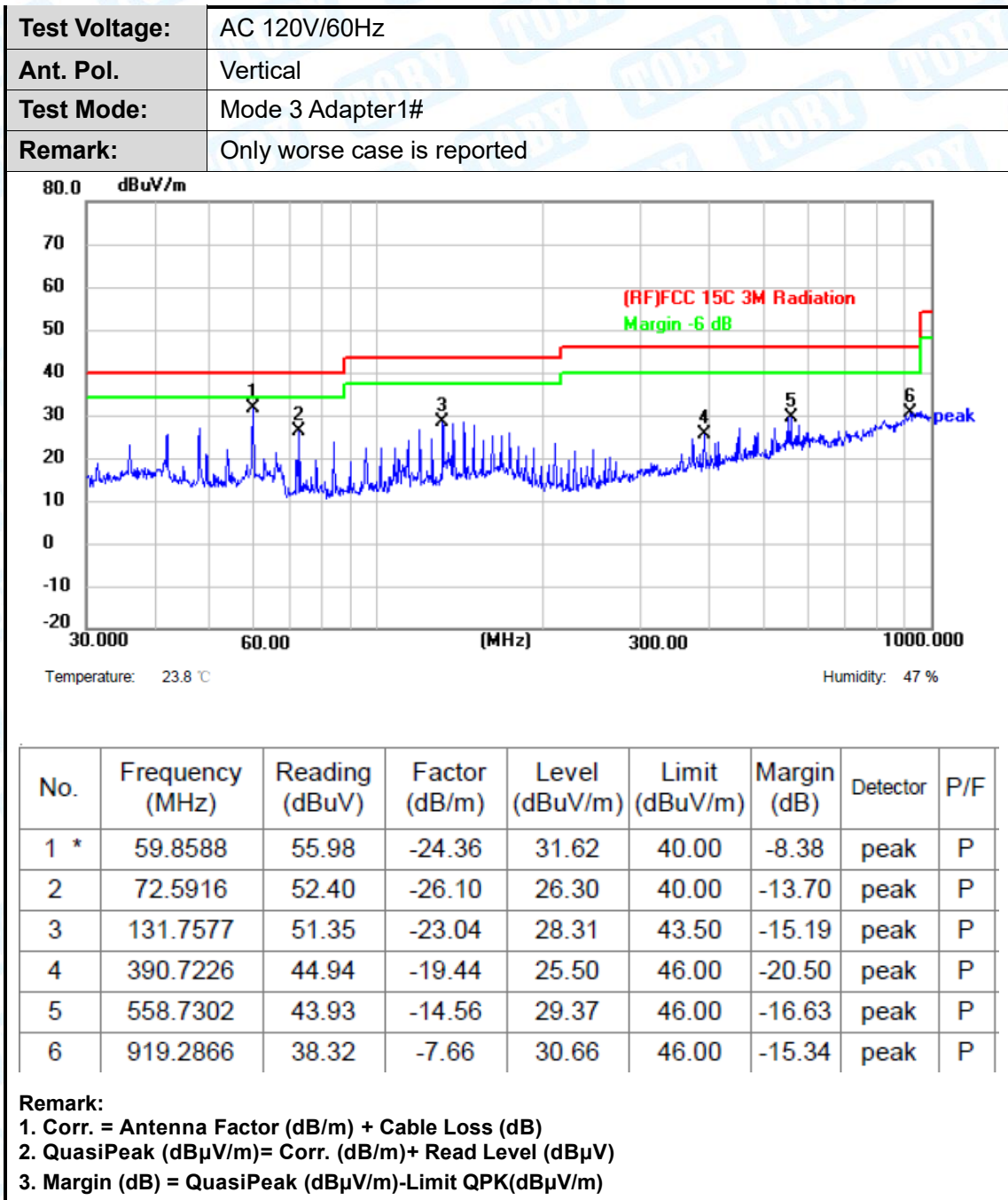


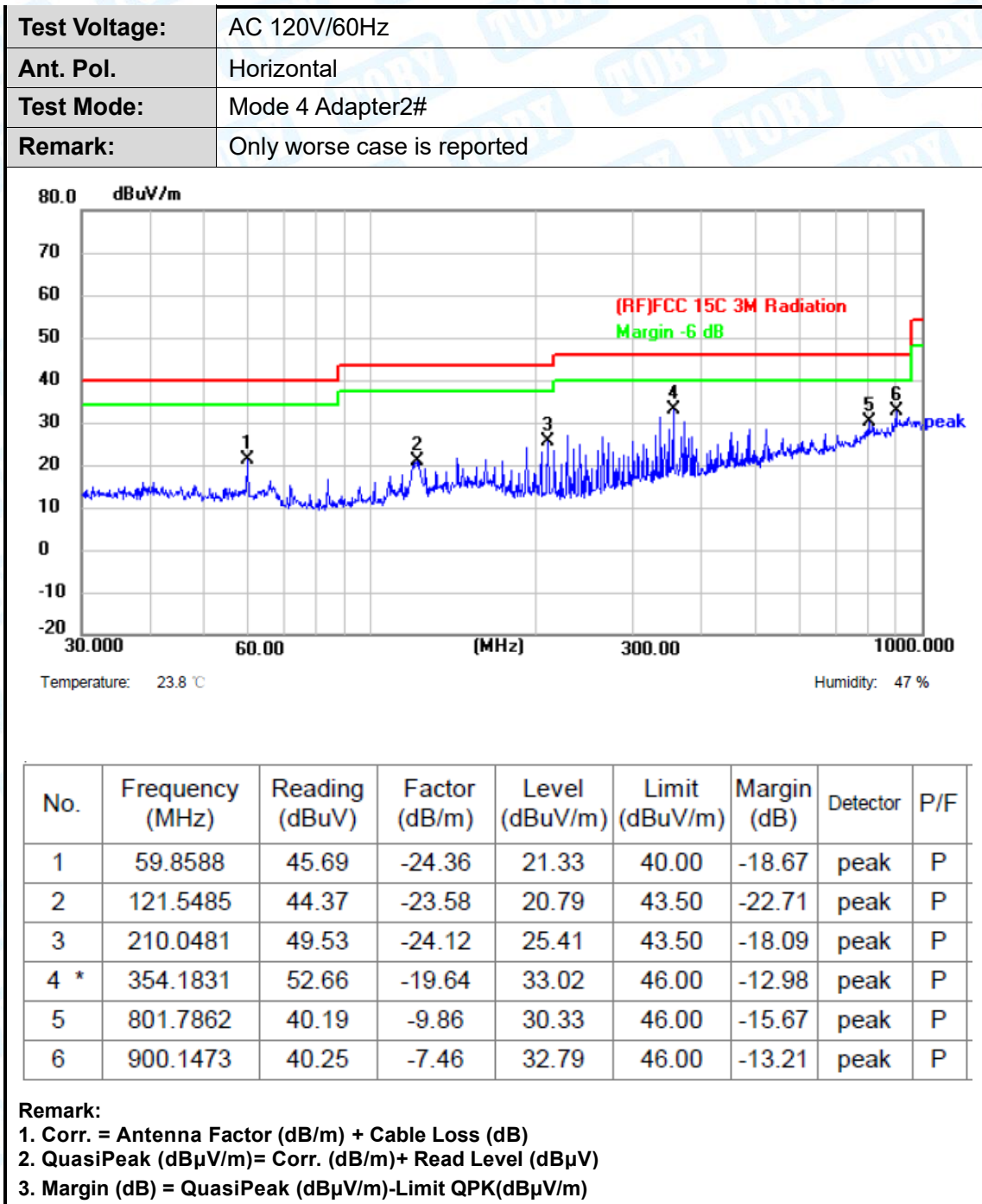
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	59.8588	45.69	-24.36	21.33	40.00	-18.67	peak	P
2	121.5486	44.37	-23.58	20.79	43.50	-22.71	peak	P
3	210.0482	49.53	-24.12	25.41	43.50	-18.09	peak	P
4 *	354.1831	52.66	-19.64	33.02	46.00	-12.98	peak	P
5	372.0045	49.93	-19.73	30.20	46.00	-15.80	peak	P
6	668.1423	40.55	-13.40	27.15	46.00	-18.85	peak	P

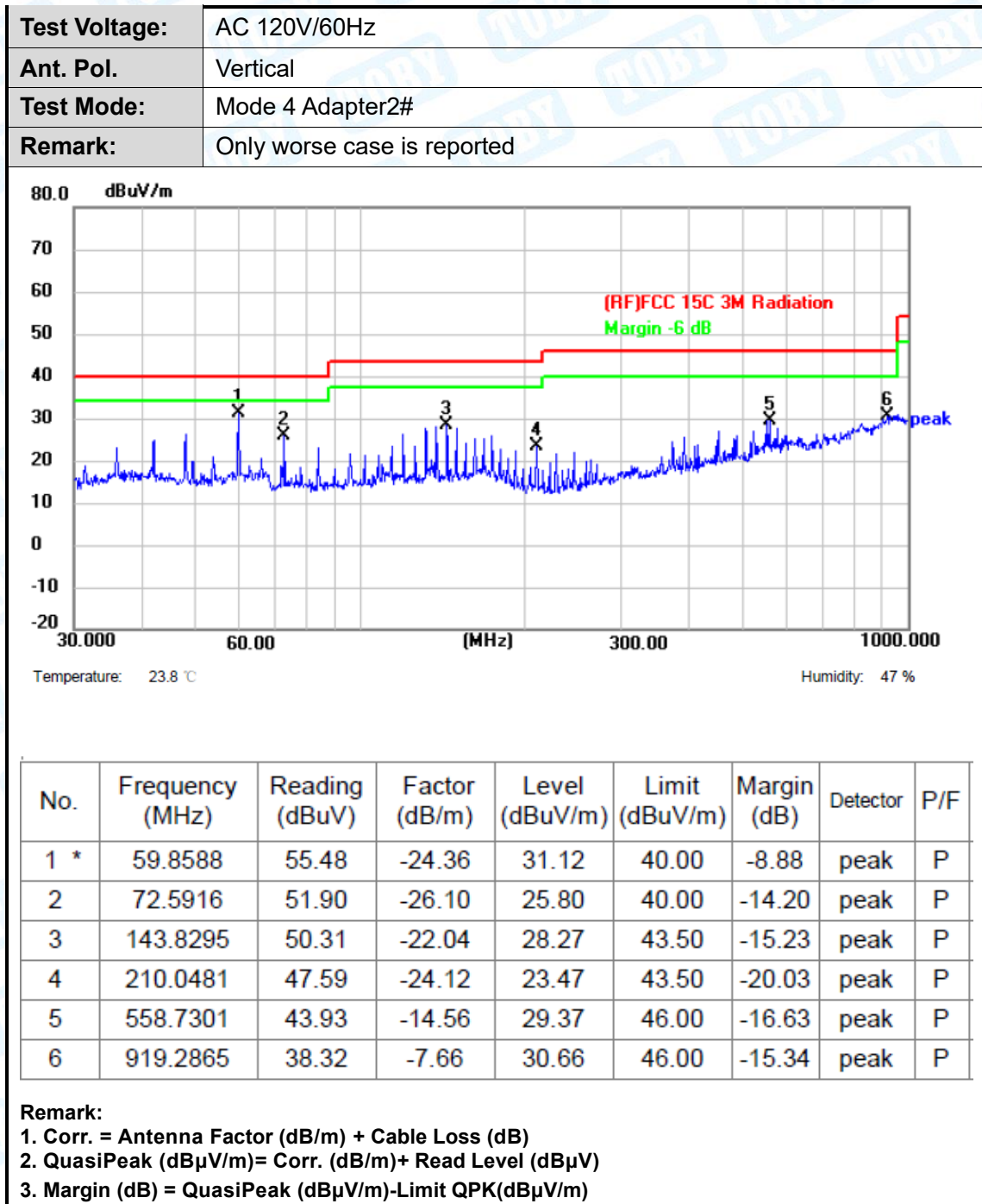
Remark:

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









--- END OF REPORT ---

