

Prüfbericht-Nr.: <i>Test report No.:</i>	50074442 001	Auftrags-Nr.: <i>Order No.:</i>	164084982	Seite 1 von 26 <i>Page 1 of 26</i>	
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	06.02.2017		
Auftraggeber: <i>Client:</i>	Binatone Electronics International Ltd. Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong				
Prüfgegenstand: <i>Test item:</i>	Digital Video Baby Monitor (Baby Unit)				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MBP35SBU, MBP36SBU (Trademark: motorola)				
Auftrags-Inhalt: <i>Order content:</i>	FCC and IC approval				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Section 2.1091	RSS-247 Issue 2 February 2017 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	06.02.2017	Please refer to photo documents			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000488441-001 A000488441-002				
Prüfzeitraum: <i>Testing period:</i>	06.02.2017 - 13.03.2017				
Ort der Prüfung: <i>Place of testing:</i>	EMTEK(Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by: 26.04.2017 Ryan Yang / Senior Project Engineer	kontrolliert von / reviewed by: 26.04.2017 Winnie Hou / Technical Certifier				
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges / Other: This report is for Baby Unit of digital video baby monitor system only. FCC ID: VLJ-MBP36SCBU IC: 4522A-MBP36SCBU HVIN: MBP35SBU, MBP36SBU					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = nicht anwendbar N/T = nicht getestet N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be v04 duplicated in extracts. This test report does not entitle to carry any test mark.					

Prüfbericht - Nr.: 50074442 001
Test Report No.

Seite 2 von 26
Page 2 of 26

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

5.1.10 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

Prüfbericht - Nr.: 50074442 001
Test Report No.Seite 3 von 26
Page 3 of 26**Contents**

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY.....	7
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	14
5.1.1	Antenna Requirement	14
5.1.2	Maximum Peak Conducted Output Power.....	15
5.1.3	99% Bandwidth	16
5.1.4	Conducted Spurious Emissions Measured in 100 kHz Bandwidth	17
5.1.5	Radiated Spurious Emission	18
5.1.6	20dB Bandwidth	19
5.1.7	Carrier Frequency Separation.....	20
5.1.8	Number of Hopping Frequency	21
5.1.9	Time of Occupancy	22
5.1.10	Conducted Emission on AC Mains	23
6	SAFETY HUMAN EXPOSURE	24
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE	24
6.1.1	Electromagnetic Fields	24
7	PHOTOGRAPHS OF THE TEST SET-UP	26

Prüfbericht - Nr.: 50074442 001
Test Report No.

Seite 4 von 26
Page 4 of 26

8	LIST OF TABLES.....	26
---	---------------------	----

Prüfbericht - Nr.: 50074442 001
Test Report No.

Seite 5 von 26
Page 5 of 26

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of General 2.4GHz Wireless of Conducted Testing

Appendix C: Test Results of General 2.4GHz Wireless of Radiated Testing

2 Test Sites

2.1 Test Facilities

EMTEK(Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

FCC Registration No.: 406365

Test site Industry Canada No.: 4480A-2

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

EMTEK(Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESU	1302.6005.26	28.05.2017
Signal Analyzer	Agilent	N9010A	My53470879	28.05.2017
Power Analyzer	Agilent	PS-X10-200	N/A	28.05.2017
Test Accessories	Agilent	PS-X10-100	N/A	28.05.2017
Spurious Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESU	1302.6005.26	28.05.2017
Pre-Amplifier	HP	8447D	2944A07999	28.05.2017
Bilog Antenna	Schwarzbeck	VULB9163	142	28.05.2017
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	28.05.2017
Horn Antenna	Schwarzbeck	BBHA 9120	D143	28.05.2017
Cable	Schwarzbeck	AK9513	ACRX1	28.05.2017
Cable	Rosenberger	N/A	FP2RX2	28.05.2017
Cable	Schwarzbeck	AK9513	CRPX1	28.05.2017
Cable	Schwarzbeck	AK9513	CRRX2	28.05.2017
Pre-Amplifier	LUNAR-EM	LNA30M3G-25	J10100000070	28.05.2017
Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Test Receiver	R&S	ESCI	26115-010-0027	28.05.2017
L.I.S.N.	R&S	ENV216	101161	28.05.2017
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	28.05.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Parameter	Uncertainty
RF Output Power	±1.0%
Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	±1.3%
Occupied Channel Bandwidth	±2.3%
Transmitter Unwanted Emission in the Out-of Band	±1.2%
Transmitter Unwanted Emissions in the Spurious Domain	±2.7%
Conducted Emission, 9k~150kHz	3.16dB
Conducted Emission, 150k-30MHz	2.90dB
Radiated Emission, below 1GHz	4.27dB
Radiated Emission, above 1GHz	4.46dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The EMTEK(Shenzhen) Co., Ltd. Test facility located at Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Digital Video Baby Monitor (Baby Unit) device, it supports general 2.4GHz wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model number is different.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Digital Video Baby Monitor (Baby Unit)
Type Designation	MBP35SBU, MBP36SBU
Trademark	motorola
FCC ID	VLJ-MBP36SCBU
IC	4522A-MBP36SCBU
HVIN	MBP35SBU, MBP36SBU
Operating Temperature Range	5 °C ~ +45 °C
Operating Voltage	DC 6.0V 800mA input via AC/DC adapter
Testing Voltage	AC 120V, 60Hz
AC/DC Adapter #1	Model: S008ACU0600080 (TenPao) Input: AC 100-240V~50/60Hz, 250mA Output: DC 6.0V~800mA
AC/DC Adapter #2	Model: CS6F060080FUF (CSEC) Input: AC 100-240V~50/60Hz, 200mA Output: DC 6.0V~800mA
Technical Specification of General 2.4GHz Wireless	
Operating Frequency	2405 - 2475 MHz
Type of Modulation	FSK
Channel Number	32 channels
Antenna Type	Integral Antenna
Antenna Gain	0 dBi

Prüfbericht - Nr.: 50074442 001
Test Report No.

 Seite 9 von 26
 Page 9 of 26

Table 3: RF Channel and Frequency of General 2.4GHz Wireless

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
01	2405	12	2428	23	2454
02	2407	13	2430	24	2456
03	2409	14	2433	25	2458.5
04	2411	15	2435	26	2460.5
05	2413	16	2437	27	2462.5
06	2415	17	2439	28	2467
07	2418	18	2441	29	2469
08	2420	19	2444	30	2471
09	2422	20	2446	31	2473
10	2424	21	2450	32	2475
11	2426	22	2452	/	/

Table 4: Frequency Hopping Information

Technical Specification	Description
Hopping Sequence	<p>Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, in order to demonstrate that the sequence meets the requirement specified in the definition of a frequency hopping spread spectrum system, found in Section 2.1. This system is controlled by microchip to generate Pseudorandom Frequency Hopping Sequence base on CCITT16 and distributed it over 32 hopping channels. The sequential hops are randomly distributed in both direction and magnitude of change in the hop set which meet the requirement specified in the definition of FCC part 2 section.1.</p> <p>Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event). A single data frame is transmitted on each frequency location before skipping to the next hopping frequency in the list. So each hopping channels is used equally on average in long term.</p>
Receiver input bandwidth	<p>Describe how the associated receiver(s) complies with the requirement that its input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal. Both receiver and transmitter are set to same bandwidth of 2MHz.</p> <p>Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals. Both transmitter and receiver will share the same device ID so the same sequence is generated for the communication. Moreover, the microchip has a clock recovery mechanism to synchronize the timing between the transmitter and receiver. With the same hopping sequence and timing, the receiver can shift frequencies in synchronization with the transmitted signals.</p>

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, General 2.4GHz wireless transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, General 2.4GHz wireless on hopping channel
- C. On, Normal operation with general 2.4GHz wireless transmitting
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.2, all tests were performed on model MBP36SBU (with adapter #1) in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Notebook	HP	Compaq 6515b	SS05538914	N/A

4.4 Countermeasures to Achieve EMC Compliance

Additional countermeasures to the submitted test sample(s) for Radiated Spurious Emission were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

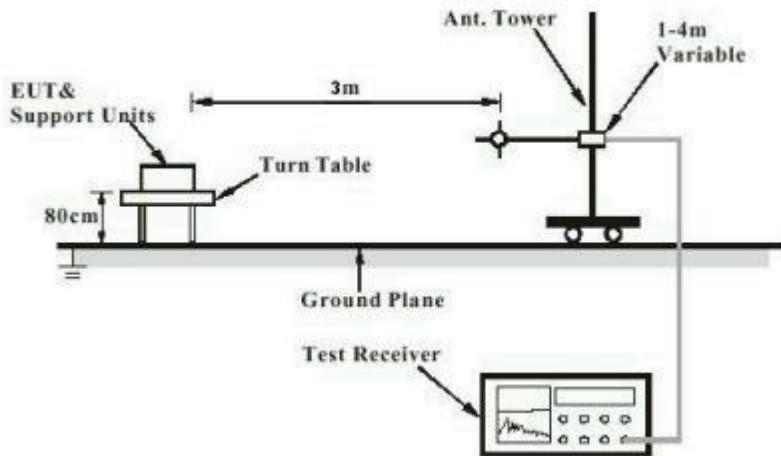
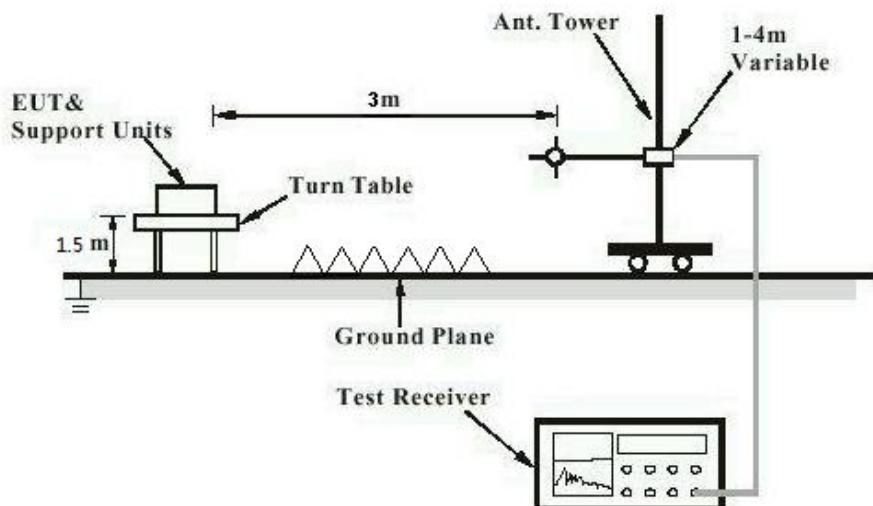


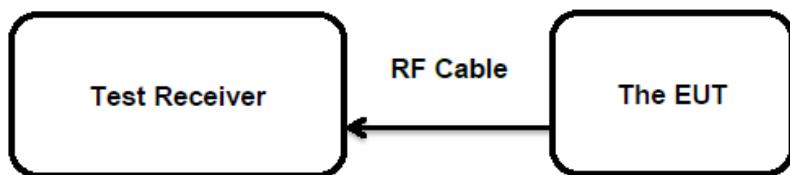
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



Prüfbericht - Nr.: 50074442 001
Test Report No.

Seite 13 von 26
Page 13 of 26

Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Prüfbericht - Nr.: 50074442 001
Test Report No.

 Seite 15 von 26
 Page 15 of 26

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	0.125 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Peak Conducted Output Power

Test EUT	Frequency (MHz)	Measured Power		Limit (W)
		(dBm)	(W)	
Baby Unit	2405.0	15.790	0.03793	< 0.125
	2441.0	15.834	0.03832	
	2475.0	15.749	0.03758	
Maximum Measured Value		15.834	0.03832	

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 16 von 26
Page 16 of 26**5.1.3 99% Bandwidth****RESULT:****Pass****Test Specification**

Test standard	:	RSS-Gen Clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 7: Test Result of 99% Bandwidth

Test EUT	Frequency (MHz)	99% Bandwidth (MHz)	Limit (kHz)
Baby Unit	2405.0	2.165	/
	2441.0	2.117	
	2475.0	2.158	
Maximum Measured Value		2.165	

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 17 von 26
Page 17 of 26**5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 18 von 26
Page 18 of 26**5.1.5 Radiated Spurious Emission****RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Issue 4 Table 4
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix C.

Prüfbericht - Nr.: 50074442 001
Test Report No.

Seite 19 von 26
Page 19 of 26

5.1.6 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 8: Test Result of 20dB Bandwidth

Test EUT	Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
Baby Unit	2405.0	2094.0	1396.0	/
	2441.0	2092.0	1394.7	
	2475.0	2094.0	1396.0	
Maximum Measured Value		2094.0	1396.0	/

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
Test Report No.

 Seite 20 von 26
 Page 20 of 26

5.1.7 Carrier Frequency Separation

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	$\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 9: Test Result of Carrier Frequency Separation

Test EUT	Test Channel	Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	
Baby Unit	Low Channel	2405.0	2000.0	$\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth	
	Adjacency Channel	2407.0			
	Middle Channel	2441.0	3008.0		
	Adjacency Channel	2444.0			
	High Channel	2475.0	1992.0		
	Adjacency Channel	2473.0			

Note: The limit is maximum 2/3 of the 20 dB bandwidth: 1396.0 KHz.

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 21 von 26
Page 21 of 26**5.1.8 Number of Hopping Frequency****RESULT:** Pass**Test Specification**

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	B
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 10: Test Result of Number of Hopping Frequency

Test EUT	Frequency Range	Measured Quantity of Hopping Channel	Limit
Baby Unit	2405 - 2475 MHz	32	≥15

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
Test Report No.

 Seite 22 von 26
 Page 22 of 26

5.1.9 Time of Occupancy

RESULT:
Pass
Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	13.03.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 11: Test Result of Time of Occupancy

Test EUT	Frequency (MHz)	Pulse width (ms)	Number of Channels	Measured Dwell time (s)	Limit (s)
Baby Unit	2405.0	1.101	210	0.231	0.4s
	2441.0	1.073	210	0.225	
	2475.0	1.044	210	0.219	

Note:

Dwell time = Pulse width x Number of channels in Period

Period = 0.4 (seconds/ channel) x 32 (channel) = 12.8 seconds

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 23 von 26
Page 23 of 26**5.1.10 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) RSS-Gen Table 3
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	11.02.2017
Input voltage	:	AC 120V, 60Hz
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	22 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix C.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard	:	CFR47 FCC Part 2: Section 2.1091
		CFR47 FCC Part 1: Section 1.1310
		FCC KDB Publication 447498 v06
		FCC KDB Publication 865664 D02 v01r02
		OET Bulletin 65 (Edition 97-01)
		RSS-102 Issue 5 March 2015

➤ FCC requirements

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to OET Bulletin 65

Power Density: $S_{(\text{mW/cm}^2)} = PG/4\pi R^2$ or $EIRP/4\pi R^2$

Where:

S = power density (mW/cm^2)

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

The nominal maximum conducted output power specified:

2.4GHz FHSS: 18.00 dBm

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (Max. 0.0 dBi for 2.4GHz FHSS), the RF power density can be calculated as below:

For 2.4GHz FHSS: $S_{(\text{mW/cm}^2)} = PG/4\pi R^2 = 0.013 \text{ mW/cm}^2$

Limits for Maximum Permissible Exposure (MPE) according to FCC Part 1.1310:

1.0 mW/cm²

Prüfbericht - Nr.: 50074442 001
*Test Report No.*Seite 25 von 26
Page 25 of 26

- **IC requirements:** The EUT shall comply with the requirement of RSS-102 section 2.5.2.

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

- RF exposure evaluation exempted power for 2.4GHz FHSS: 2.679 W

The nominal maximum conducted output power specified:

2.4GHz FHSS: 18.00 dBm

Antenna Gain: 0.0 dBi for 2.4GHz FHSS

The Max. e.i.r.p. for 2.4GHz FHSS = 18.00 dBm ≈ 0.100 W is less than the RF exposure evaluation exempted power. So RF exposure evaluation is not required.

“RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons.”

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

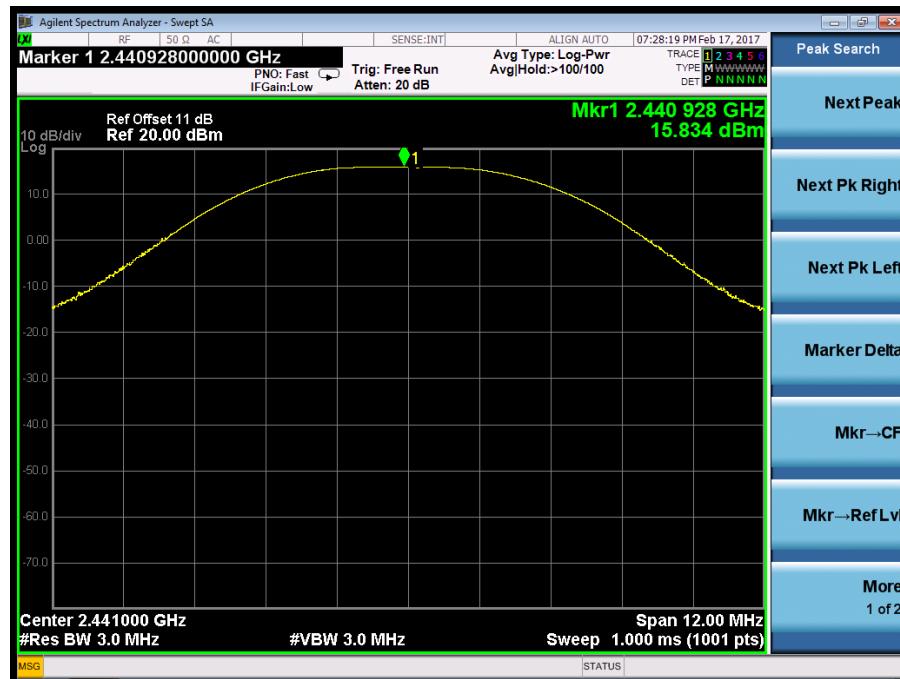
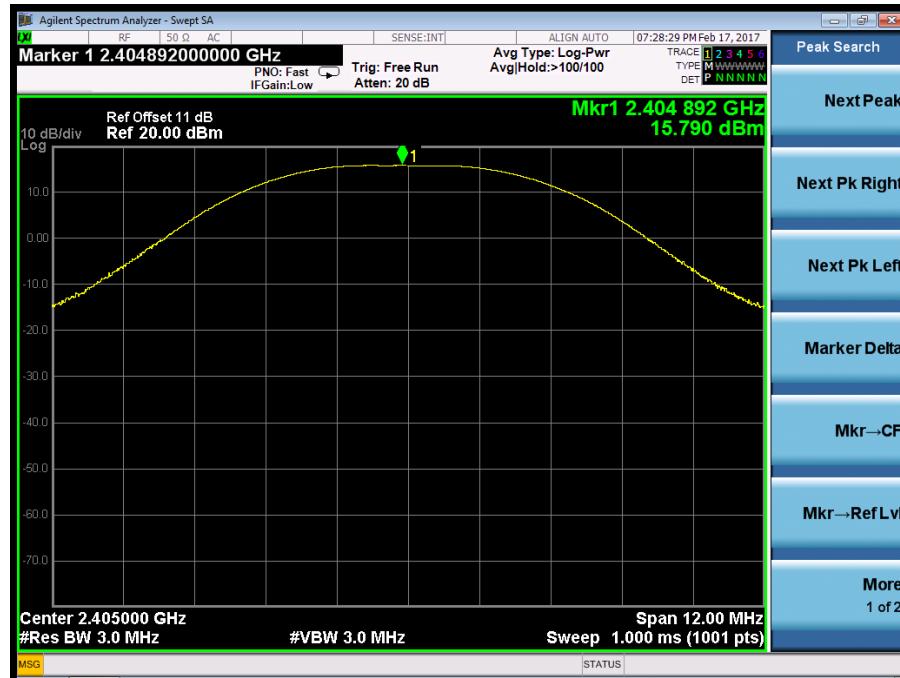
8 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Technical Specification of EUT	8
Table 3: RF Channel and Frequency of General 2.4GHz Wireless	9
Table 4: Frequency Hopping Information.....	9
Table 5: List of Accessories and Auxiliary Equipment.....	11
Table 6: Test Result of Maximum Peak Conducted Output Power.....	15
Table 7: Test Result of 99% Bandwidth	16
Table 8: Test Result of 20dB Bandwidth	19
Table 9: Test Result of Carrier Frequency Separation	20
Table 10: Test Result of Number of Hopping Frequency	21
Table 11: Test Result of Time of Occupancy	22

Appendix B: Test Results of Conducted Testing

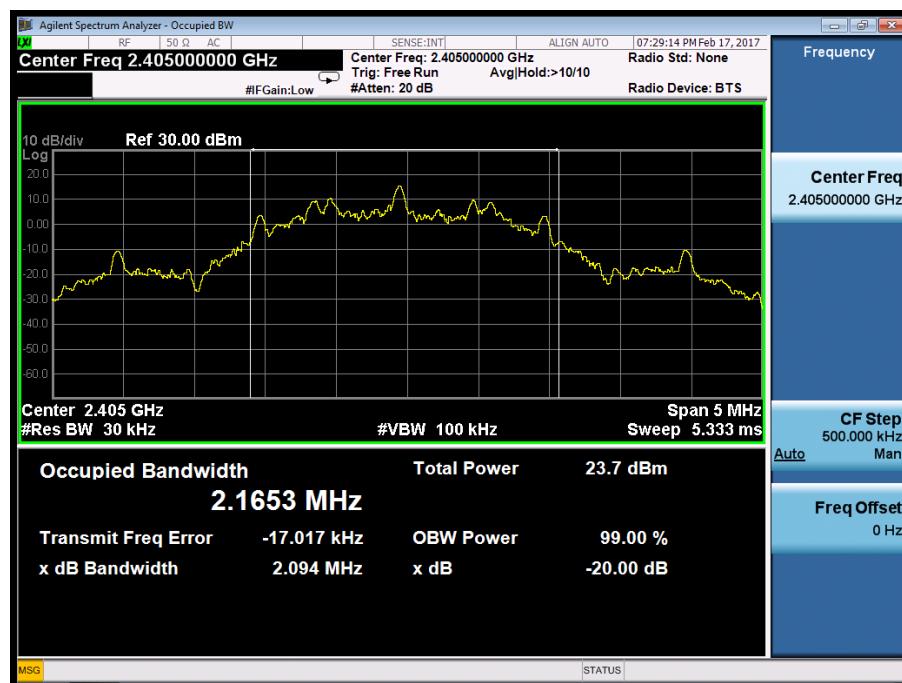
APPENDIX B: TEST RESULTS OF CONDUCTED TESTING	1
APPENDIX B.1: TEST RESULTS OF MAXIMUM PEAK CONDUCTED OUTPUT POWER.....	2
APPENDIX B.2: TEST RESULTS OF 99% BANDWIDTH AND 20dB BANDWIDTH	3
APPENDIX B.3: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH.....	5
<i>Low Channel.....</i>	<i>5</i>
<i>Middle Channel.....</i>	<i>5</i>
<i>High Channel.....</i>	<i>6</i>
<i>Band Edge, Low Channel.....</i>	<i>7</i>
<i>Band Edge, High Channel.....</i>	<i>7</i>
APPENDIX B.4: TEST RESULTS OF CARRIER FREQUENCY SEPARATION	8
APPENDIX B.5: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY	9
APPENDIX B.6: TEST RESULTS OF TIME OF OCCUPANCY.....	10
<i>Low Channel.....</i>	<i>10</i>
<i>Middle Channel.....</i>	<i>11</i>
<i>High Channel.....</i>	<i>12</i>

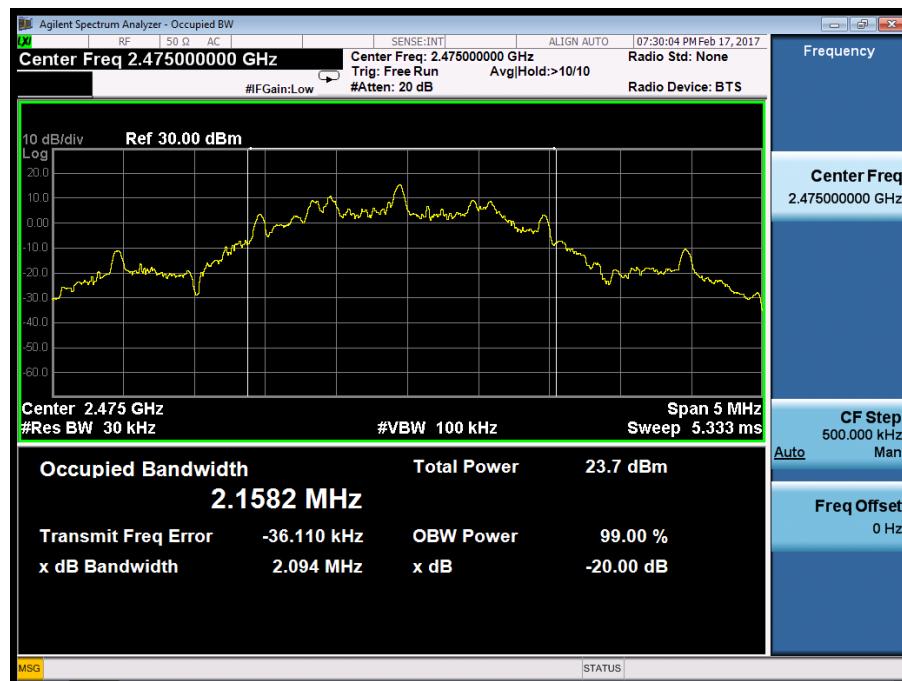
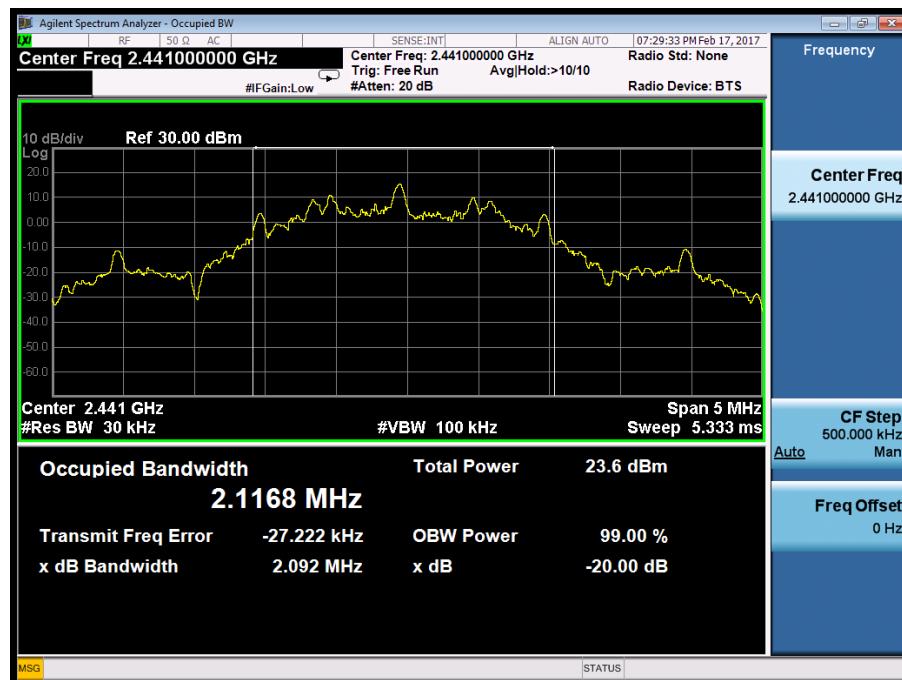
Appendix B.1: Test Results of Maximum Peak Conducted Output Power





Appendix B.2: Test Results of 99% Bandwidth and 20dB Bandwidth





Appendix B.3: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Low Channel



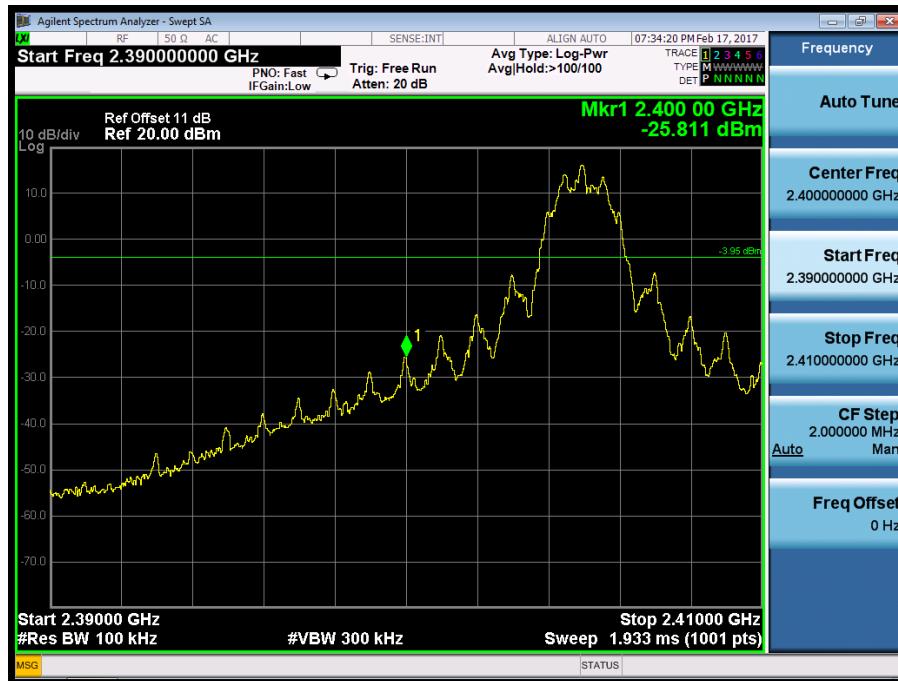
Middle Channel



High Channel



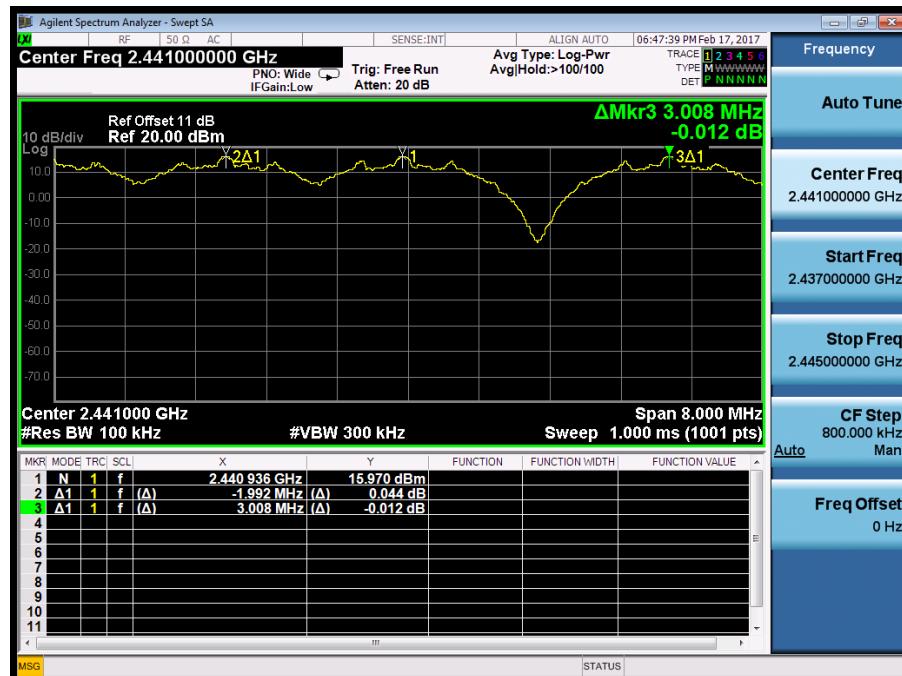
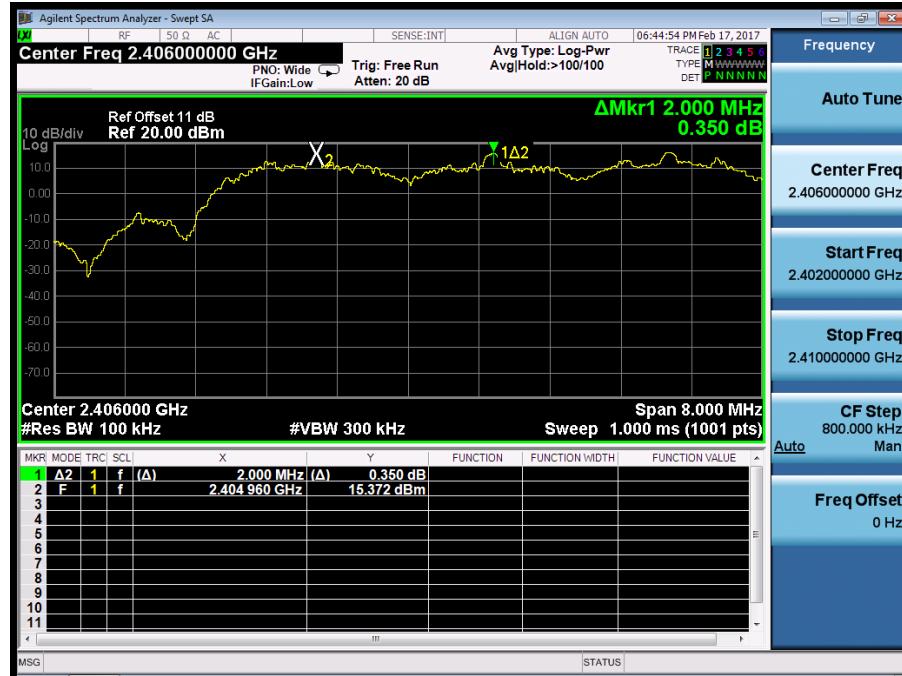
Band Edge, Low Channel



Band Edge, High Channel



Appendix B.4: Test Results of Carrier Frequency Separation



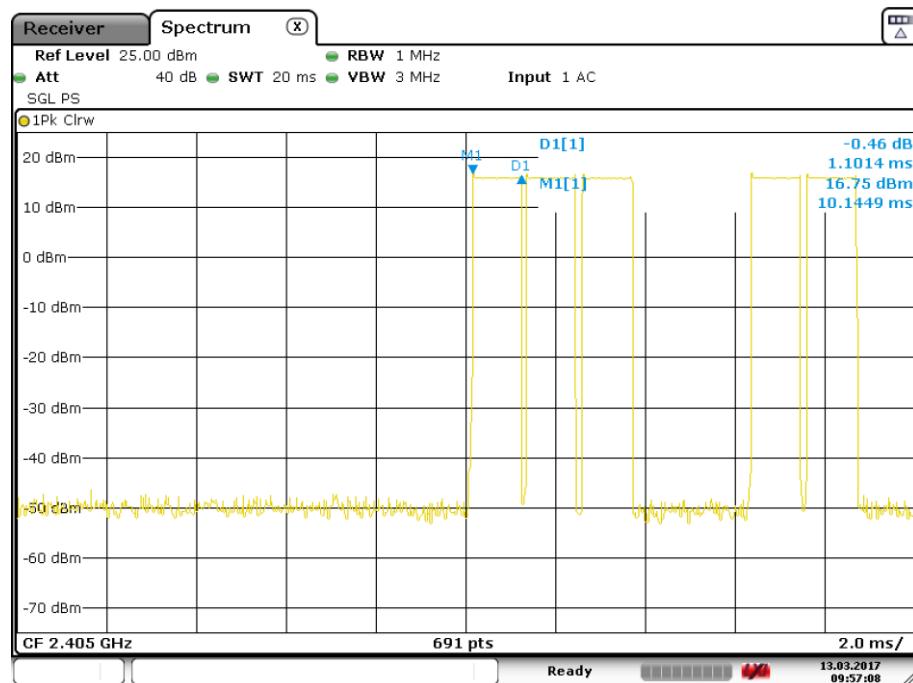


Appendix B.5: Test Results of Number of Hopping Frequency

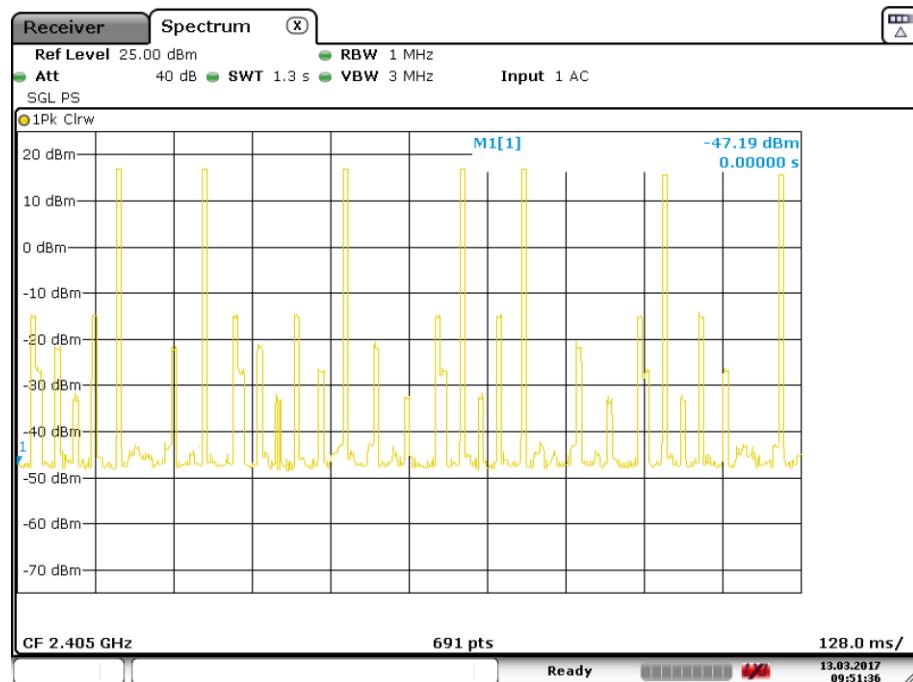


Appendix B.6: Test Results of Time of Occupancy

Low Channel

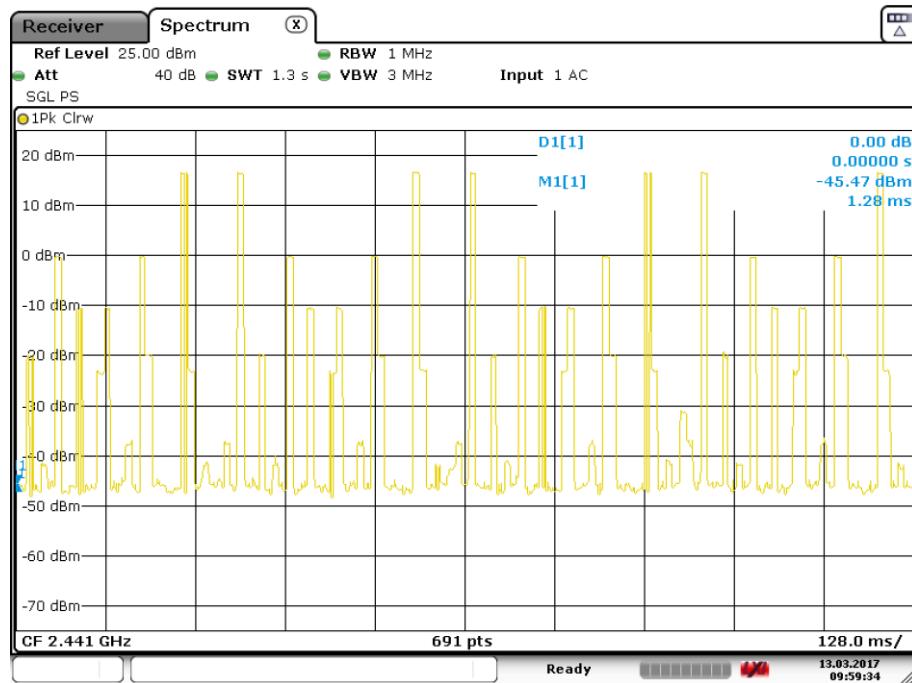


Date: 13.MAR.2017 09:57:09

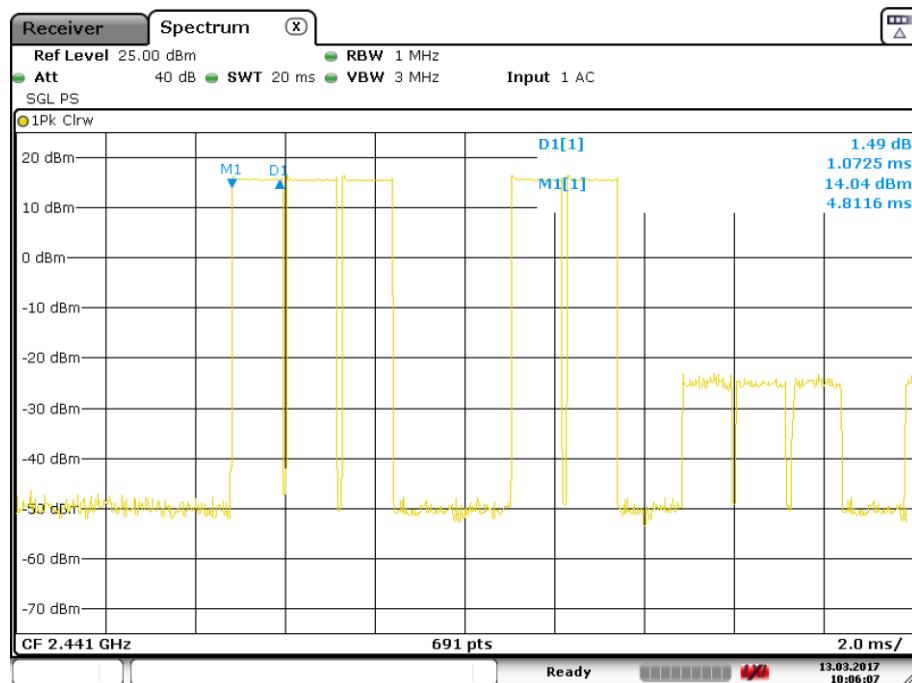


Date: 13.MAR.2017 09:51:36

Middle Channel

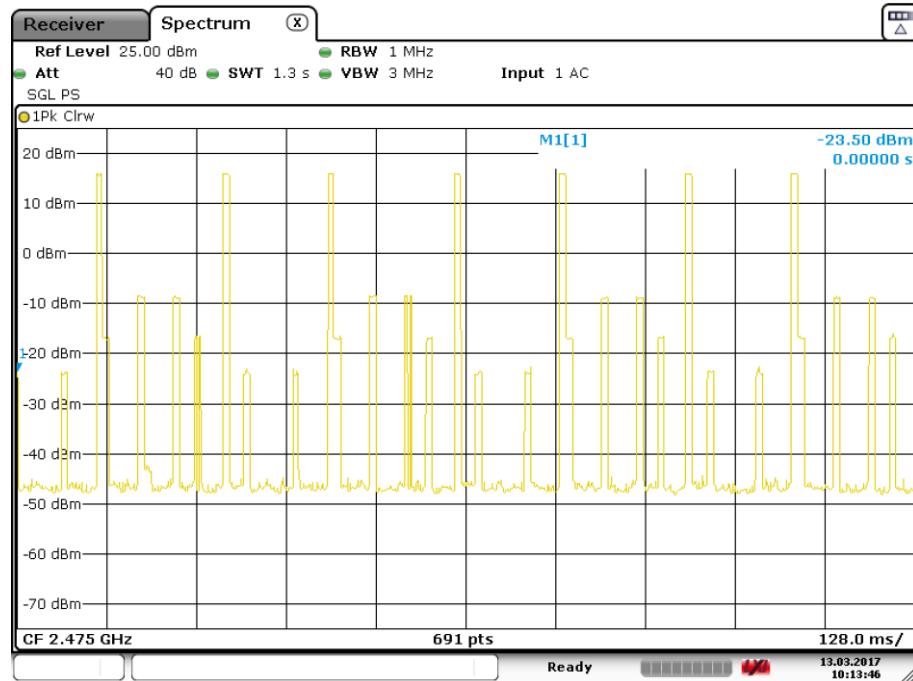


Date: 13.MAR.2017 09:59:35

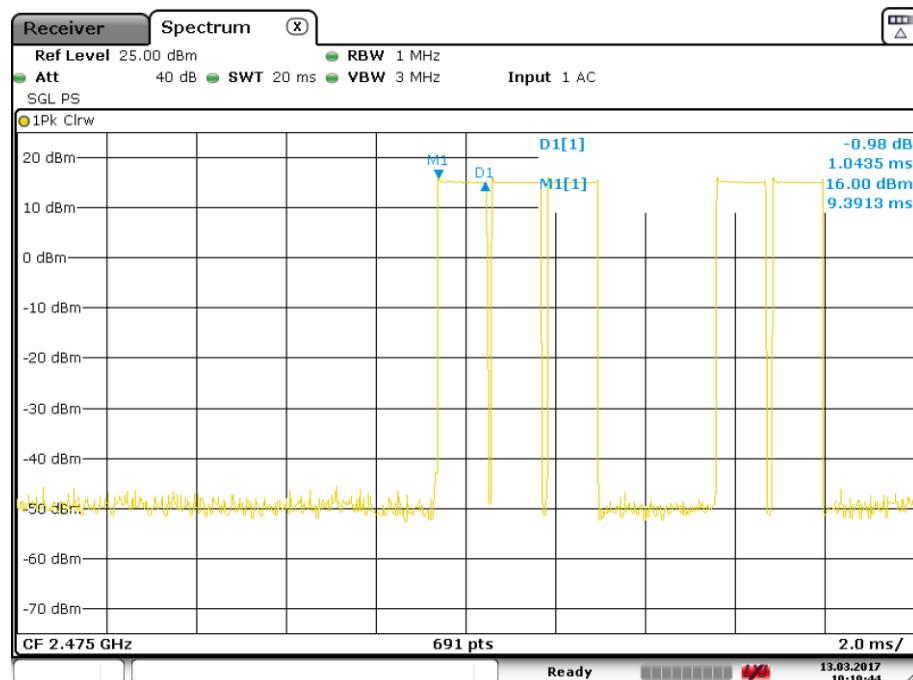


Date: 13.MAR.2017 10:06:07

High Channel



Date: 13.MAR.2017 10:13:46



Date: 13.MAR.2017 10:10:44

Appendix C: Test Results of Radiated Testing

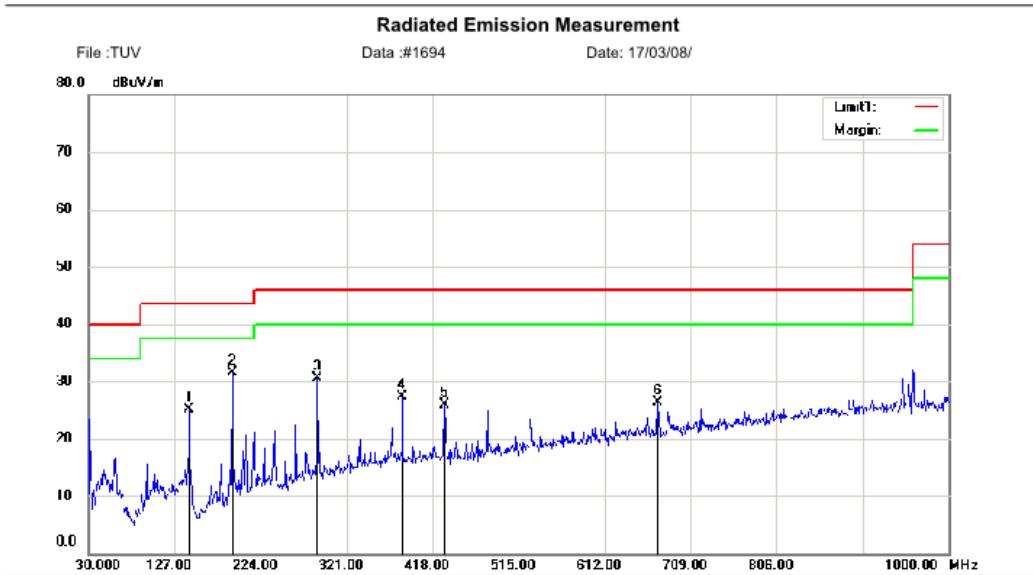
APPENDIX C: TEST RESULTS OF RADIATED TESTING	1
APPENDIX C.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	2
30MHz - 1GHz	2
1GHz - 18GHz	8
18GHz - 26.5GHz	14
APPENDIX C.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	20
Low Channel.....	20
High Channel.....	22
APPENDIX C.3: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	24
C mode with adapter #1	24
C mode with adapter #2	26

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 26.5GHz were reported.

Appendix C.1: Test Results of Radiated Spurious Emissions

30MHz - 1GHz

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	143.4900	43.26	-18.24	25.02	43.50	-18.48	QP			
2	*	191.9900	47.21	-15.79	31.42	43.50	-12.08	QP		
3	288.0200	42.16	-11.56	30.60	46.00	-15.40	QP			
4	384.0500	36.06	-8.74	27.32	46.00	-18.68	QP			
5	431.5800	34.09	-8.13	25.96	46.00	-20.04	QP			
6	672.1400	29.72	-3.34	26.38	46.00	-19.62	QP			

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

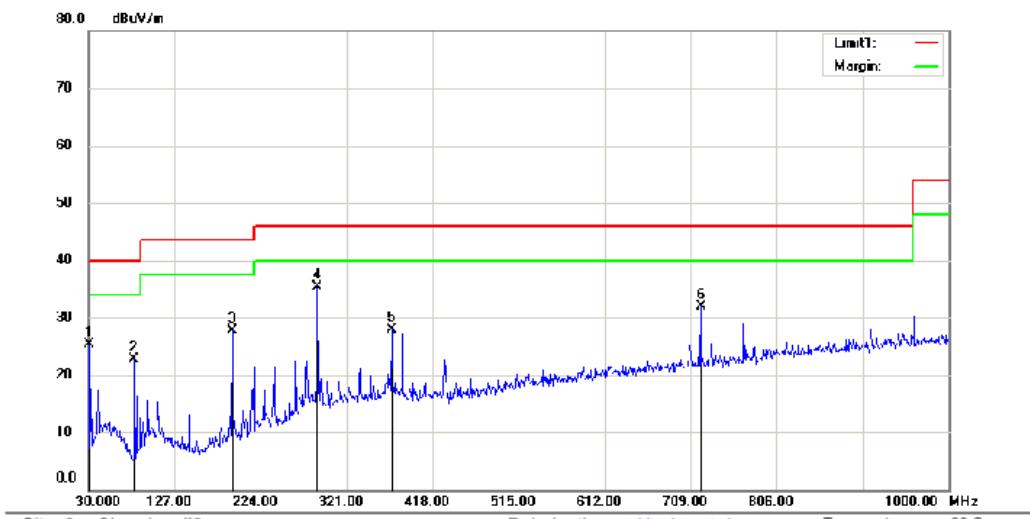

Access to the World

Radiated Emission Measurement

File :TUV

Data #:1695

Date: 17/03/08/



Site 3m Chamber #2

Polarization: *Horizontal*

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX(LOW CHANNEL)

Note: BU(Tenpao Adapter)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over	Antenna Height cm	Table Degree	Comment
1		30.9700	42.45	-17.21	25.24	40.00	-14.76	QP		
2		81.4100	41.80	-19.13	22.67	40.00	-17.33	QP		
3		191.9900	43.51	-15.79	27.72	43.50	-15.78	QP		
4	*	288.0200	46.94	-11.56	35.38	46.00	-10.62	QP		
5		371.4400	36.78	-8.96	27.82	46.00	-18.18	QP		
6		720.6400	34.42	-2.53	31.89	46.00	-14.11	QP		

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

Operator: CSL

File :TUV\Data #:1695

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

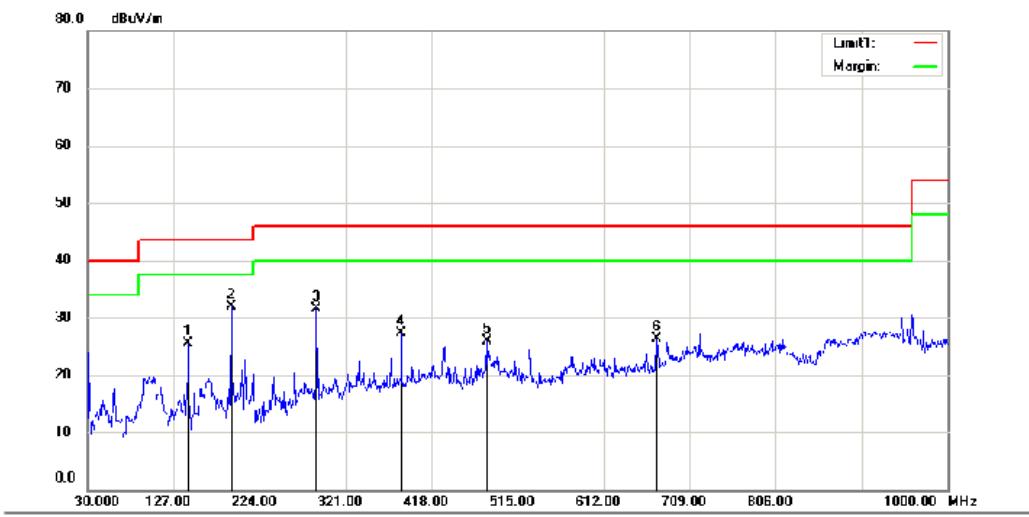
EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data :#1762

Date: 17/03/08/



Site: 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode: TX(MID CHANNEL)

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		143.4900	43.76	-18.24	25.52	43.50	-17.98	QP			
2	*	191.9900	47.71	-15.79	31.92	43.50	-11.58	QP			
3		288.0200	43.16	-11.56	31.60	46.00	-14.40	QP			
4		384.0500	36.06	-8.74	27.32	46.00	-18.68	QP			
5		480.0800	33.20	-7.22	25.98	46.00	-20.02	QP			
6		672.1400	29.72	-3.34	26.38	46.00	-19.62	QP			

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

Operator: CSL

File :TUV\#1762

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

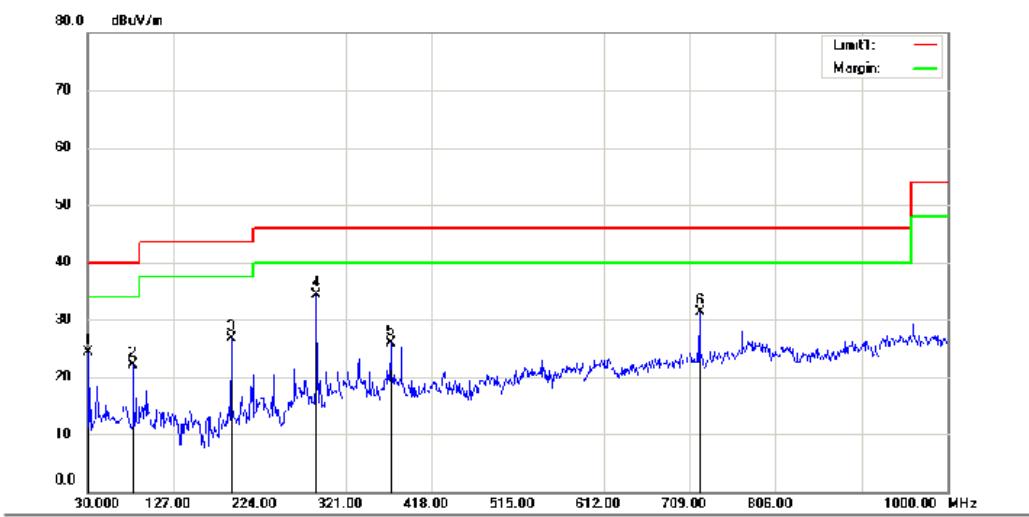

Access to the World

Radiated Emission Measurement

File :TUV

Data #:1763

Date: 17/03/08/



Site: 3m Chamber #2

Polarization: *Horizontal*

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode: TX(MID CHANNEL)

Note: BU(Tenpao Adapter)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		30.9700	41.45	-17.21	24.24	40.00	-15.76	QP			
2		81.4100	41.30	-19.13	22.17	40.00	-17.83	QP			
3		191.9900	42.51	-15.79	26.72	43.50	-16.78	QP			
4	*	288.0200	45.94	-11.56	34.38	46.00	-11.62	QP			
5		371.4400	34.78	-8.96	25.82	46.00	-20.18	QP			
6		720.6400	33.92	-2.53	31.39	46.00	-14.61	QP			

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

Operator: CSL

File :TUV\Data #:1763

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

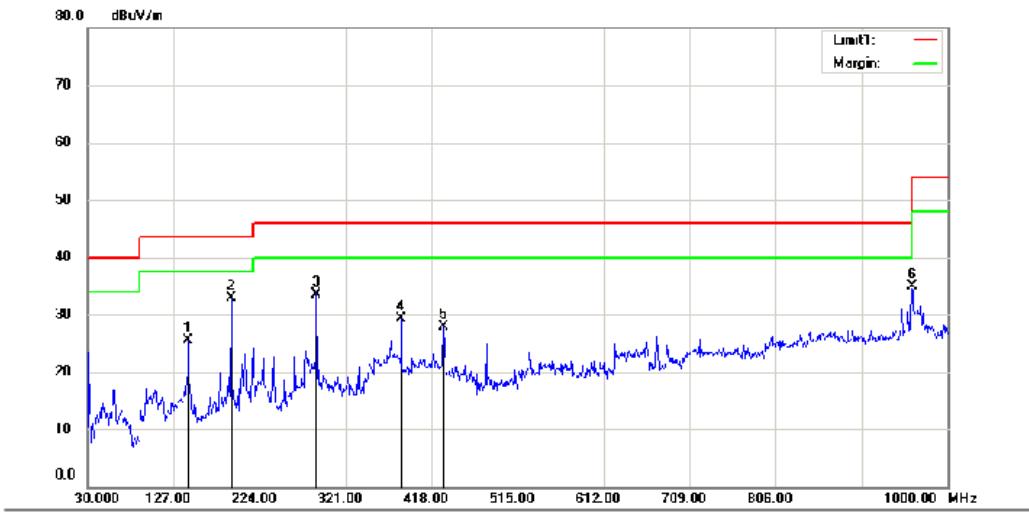


Radiated Emission Measurement

File :TUV

Data :#1764

Date: 17/03/08/



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX(HIGH CHANNEL)

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		143.4900	43.76	-18.24	25.52	43.50	-17.98	peak			
2	*	191.9900	48.71	-15.79	32.92	43.50	-10.58	peak			
3		288.0200	45.16	-11.56	33.60	46.00	-12.40	peak			
4		384.0500	38.06	-8.74	29.32	46.00	-16.68	peak			
5		431.5800	36.09	-8.13	27.96	46.00	-18.04	peak			
6		960.2300	34.16	0.80	34.96	54.00	-19.04	peak			

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

Operator: CSL

File :TUV\#1764

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

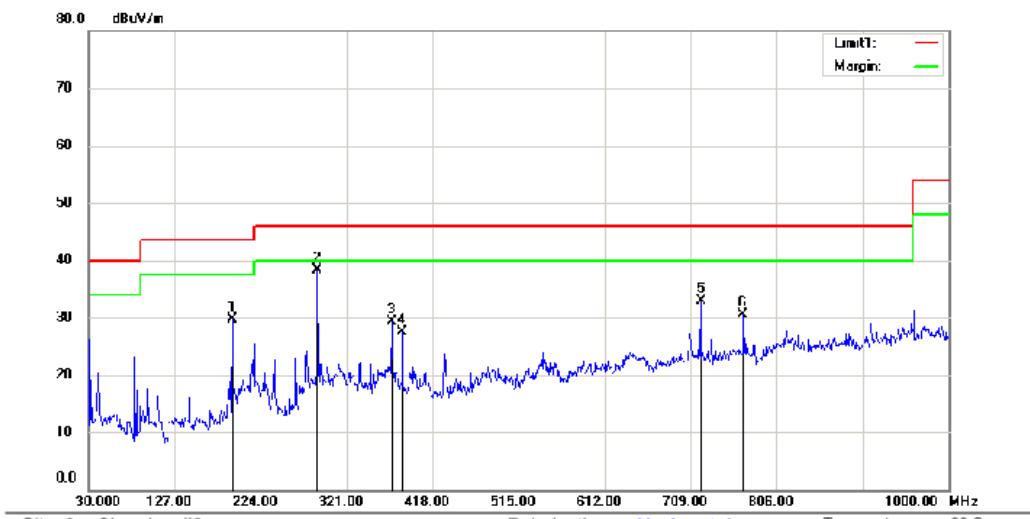

Access to the World

Radiated Emission Measurement

File :TUV

Data #:1765

Date: 17/03/08/



Site 3m Chamber #2

Polarization: *Horizontal*

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX(HIGH CHANNEL)

Note: BU(Tenpao Adapter)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		191.9900	45.51	-15.79	29.72	43.50	-13.78	QP			
2	*	288.0200	49.94	-11.56	38.38	46.00	-7.62	QP			
3		371.4400	38.28	-8.96	29.32	46.00	-16.68	QP			
4		384.0500	36.28	-8.74	27.54	46.00	-18.46	QP			
5		720.6400	35.42	-2.53	32.89	46.00	-13.11	QP			
6		768.1700	32.11	-1.66	30.45	46.00	-15.55	QP			

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

Operator: CSL

File :TUV\Data #:1765

Page: 1

1GHz - 18GHz

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

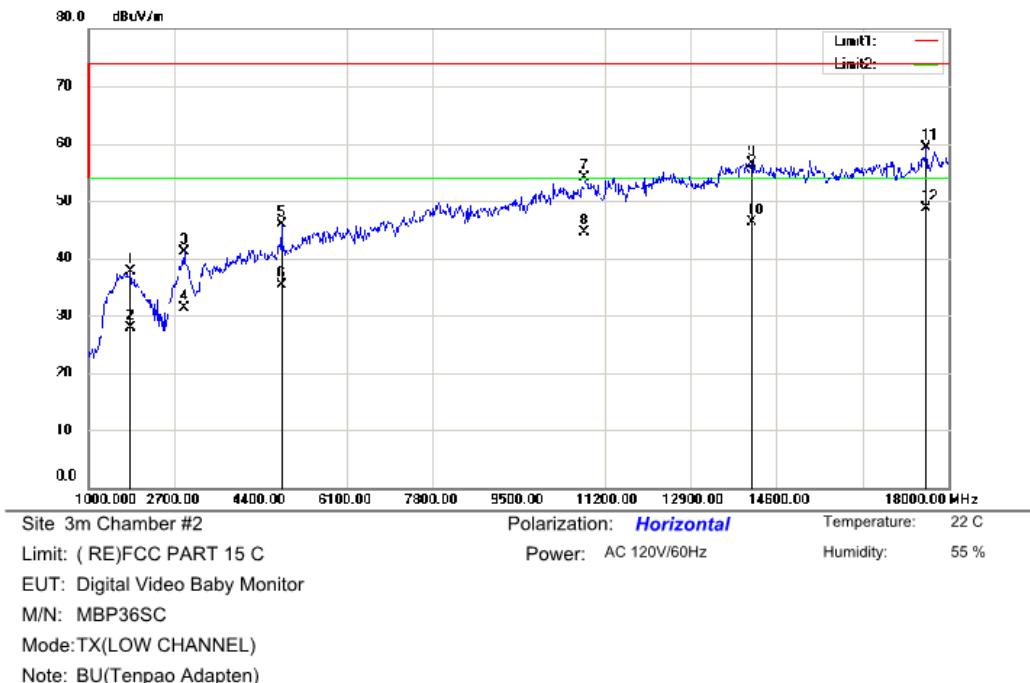

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data :#1577

Date: 2017/02/16



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		1833.000	51.94	-14.23	37.71	74.00	-36.29	peak			
2		1833.000	42.08	-14.23	27.85	54.00	-26.15	AVG			
3		2887.000	50.52	-9.40	41.12	74.00	-32.88	peak			
4		2887.000	40.72	-9.40	31.32	54.00	-22.68	AVG			
5		4808.000	50.38	-4.46	45.92	74.00	-28.08	peak			
6		4808.000	39.67	-4.46	35.21	54.00	-18.79	AVG			
7		10809.00	43.80	10.39	54.19	74.00	-19.81	peak			
8		10809.00	34.17	10.39	44.56	54.00	-9.44	AVG			
9		14107.00	42.60	14.00	56.60	74.00	-17.40	peak			
10		14107.00	32.21	14.00	46.21	54.00	-7.79	AVG			
11		17558.00	41.45	17.77	59.22	74.00	-14.78	peak			
12	*	17558.00	30.85	17.77	48.62	54.00	-5.38	AVG			

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

Operator: CSL

File :TUV Data :#1577

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

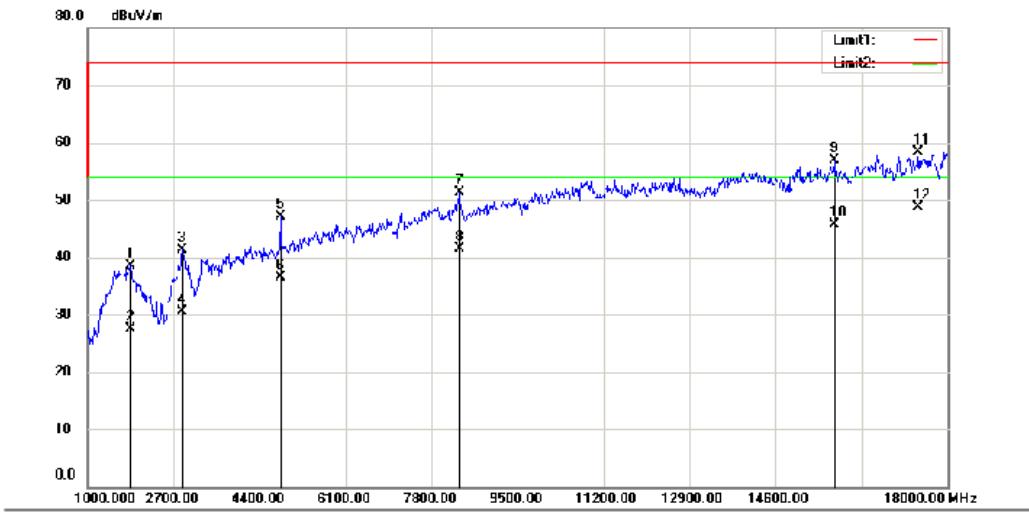

Access to the World

Radiated Emission Measurement

File :TUV

Data #:1578

Date: 2017/02/16



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX(LOW CHANNEL)

Note: BU(Tenpao Adapten)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		1850.000	52.75	-14.23	38.52	74.00	-35.48	peak			
2		1850.000	41.74	-14.23	27.51	54.00	-26.49	AVG			
3		2870.000	50.76	-9.49	41.27	74.00	-32.73	peak			
4		2870.000	40.07	-9.49	30.58	54.00	-23.42	AVG			
5		4808.000	51.59	-4.46	47.13	74.00	-26.87	peak			
6		4808.000	40.97	-4.46	36.51	54.00	-17.49	AVG			
7		8344.000	45.69	5.69	51.38	74.00	-22.62	peak			
8		8344.000	35.89	5.69	41.58	54.00	-12.42	AVG			
9		15756.00	46.29	10.62	56.91	74.00	-17.09	peak			
10		15756.00	35.12	10.62	45.74	54.00	-8.26	AVG			
11		17422.00	40.79	17.59	58.38	74.00	-15.62	peak			
12	*	17422.00	31.03	17.59	48.62	54.00	-5.38	AVG			

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

Operator: CSL

File :TUV\ Data #:1578

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

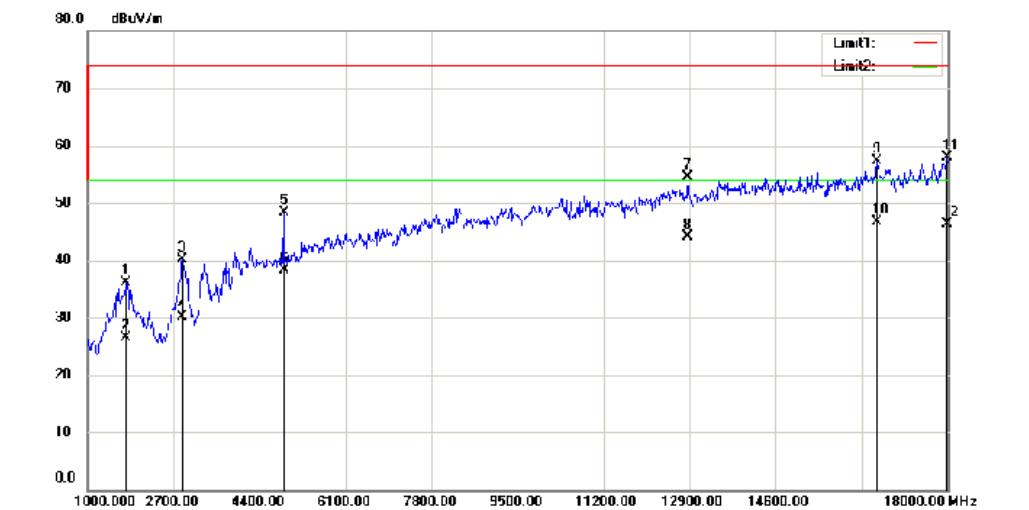

Access to the World

Radiated Emission Measurement

File :TUV

Data #:1579

Date: 2017/02/16



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX(MID CHANNEL)

Note: BU(Tenpao Adapten)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1748.000	50.36	-14.27	36.09	74.00	-37.91	peak		
2		1748.000	40.81	-14.27	26.54	54.00	-27.46	AVG		
3		2870.000	49.54	-9.49	40.05	74.00	-33.95	peak		
4		2870.000	39.63	-9.49	30.14	54.00	-23.86	AVG		
5		4876.000	52.59	-4.28	48.31	74.00	-25.69	peak		
6		4876.000	42.53	-4.28	38.25	54.00	-15.75	AVG		
7		12866.00	43.23	11.26	54.49	74.00	-19.51	peak		
8		12866.00	32.89	11.26	44.15	54.00	-9.85	AVG		
9		16606.00	43.10	14.25	57.35	74.00	-16.65	peak		
10	*	16606.00	32.49	14.25	46.74	54.00	-7.26	AVG		
11		17983.00	39.56	18.37	57.93	74.00	-16.07	peak		
12		17983.00	27.88	18.37	46.25	54.00	-7.75	AVG		

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

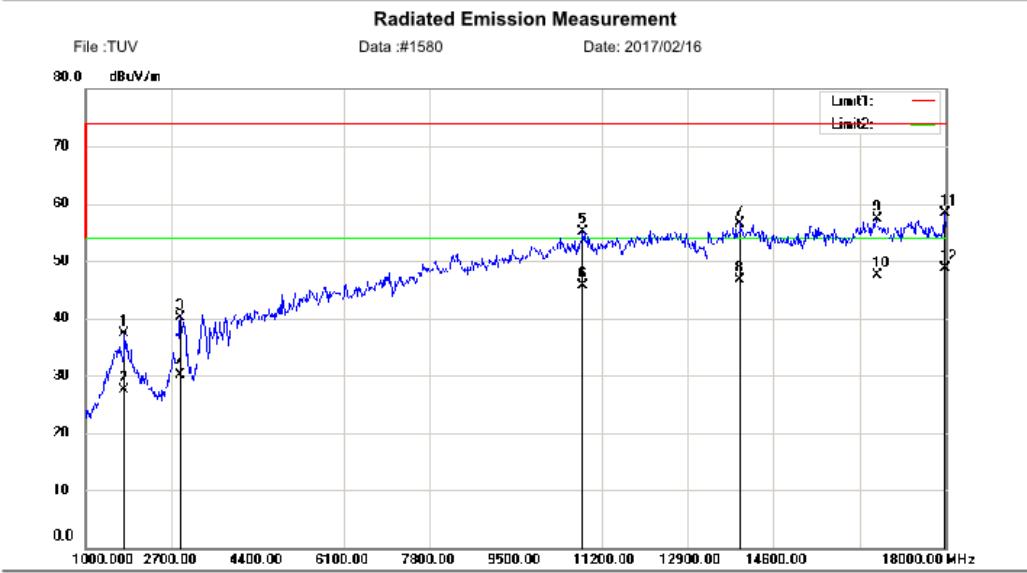
Operator: CSL

File :TUV\Data #:1579

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282


Access to the World



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1765.000	51.51	-14.26	37.25	74.00	-36.75	peak		
2		1765.000	41.82	-14.26	27.56	54.00	-26.44	AVG		
3		2870.000	49.63	-9.49	40.14	74.00	-33.86	peak		
4		2870.000	39.64	-9.49	30.15	54.00	-23.85	AVG		
5		10826.00	44.70	10.42	55.12	74.00	-18.88	peak		
6		10826.00	35.21	10.42	45.63	54.00	-8.37	AVG		
7		13937.00	42.60	14.00	56.60	74.00	-17.40	peak		
8		13937.00	32.75	14.00	46.75	54.00	-7.25	AVG		
9		16640.00	42.87	14.48	57.35	74.00	-16.65	peak		
10		16640.00	33.10	14.48	47.58	54.00	-6.42	AVG		
11		17983.00	40.00	18.37	58.37	74.00	-15.63	peak		
12	*	17983.00	30.28	18.37	48.65	54.00	-5.35	AVG		

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

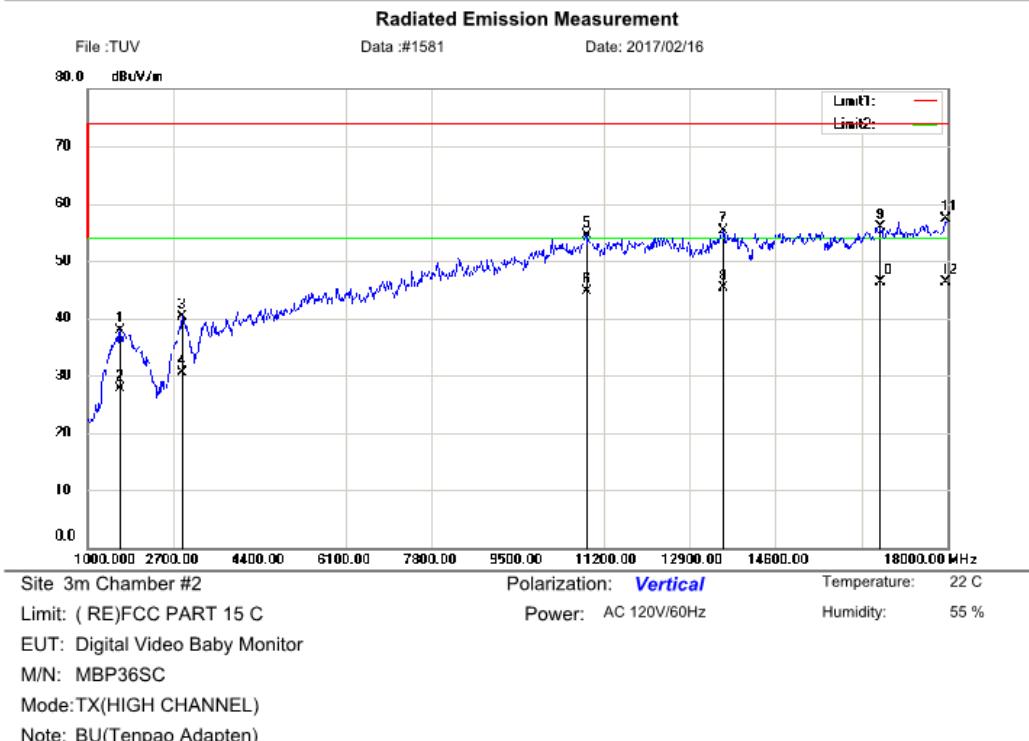
Operator: CSL

File :TUV Data #:1580

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282


Access to the World



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1646.000	52.26	-14.30	37.96	74.00	-36.04	peak		
2		1646.000	41.95	-14.30	27.65	54.00	-26.35	AVG		
3		2870.000	49.85	-9.49	40.36	74.00	-33.64	peak		
4		2870.000	39.96	-9.49	30.47	54.00	-23.53	AVG		
5		10860.00	44.05	10.50	54.55	74.00	-19.45	peak		
6		10860.00	34.15	10.50	44.65	54.00	-9.35	AVG		
7		13563.00	42.38	12.90	55.28	74.00	-18.72	peak		
8		13563.00	32.42	12.90	45.32	54.00	-8.68	AVG		
9		16674.00	41.28	14.72	56.00	74.00	-18.00	peak		
10		16674.00	31.49	14.72	46.21	54.00	-7.79	AVG		
11		17966.00	38.93	18.34	57.27	74.00	-16.73	peak		
12	*	17966.00	27.91	18.34	46.25	54.00	-7.75	AVG		

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

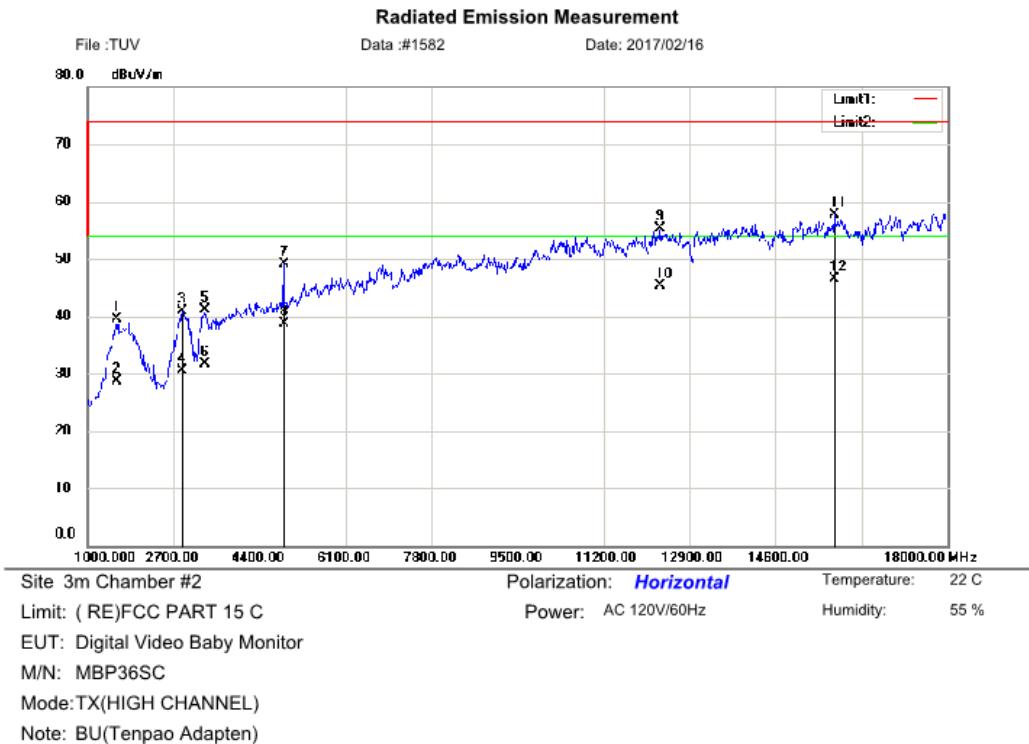
Operator: CSL

File :TUV Data #:1581

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282


EMTEK Access to the World



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1578.000	53.89	-14.33	39.56	74.00	-34.44	peak		
2		1578.000	42.98	-14.33	28.65	54.00	-25.35	AVG		
3		2870.000	50.37	-9.49	40.88	74.00	-33.12	peak		
4		2870.000	40.03	-9.49	30.54	54.00	-23.46	AVG		
5		3312.000	49.26	-8.12	41.14	74.00	-32.86	peak		
6		3312.000	39.77	-8.12	31.65	54.00	-22.35	AVG		
7		4876.000	53.47	-4.28	49.19	74.00	-24.81	peak		
8		4876.000	42.96	-4.28	38.68	54.00	-15.32	AVG		
9		12322.00	43.84	11.38	55.22	74.00	-18.78	peak		
10		12322.00	33.89	11.38	45.27	54.00	-8.73	AVG		
11		15756.00	47.09	10.62	57.71	74.00	-16.29	peak		
12	*	15756.00	35.96	10.62	46.58	54.00	-7.42	AVG		

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

Operator: CSL

File :TUV Data #:1582

Page: 1

18GHz - 26.5GHz

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

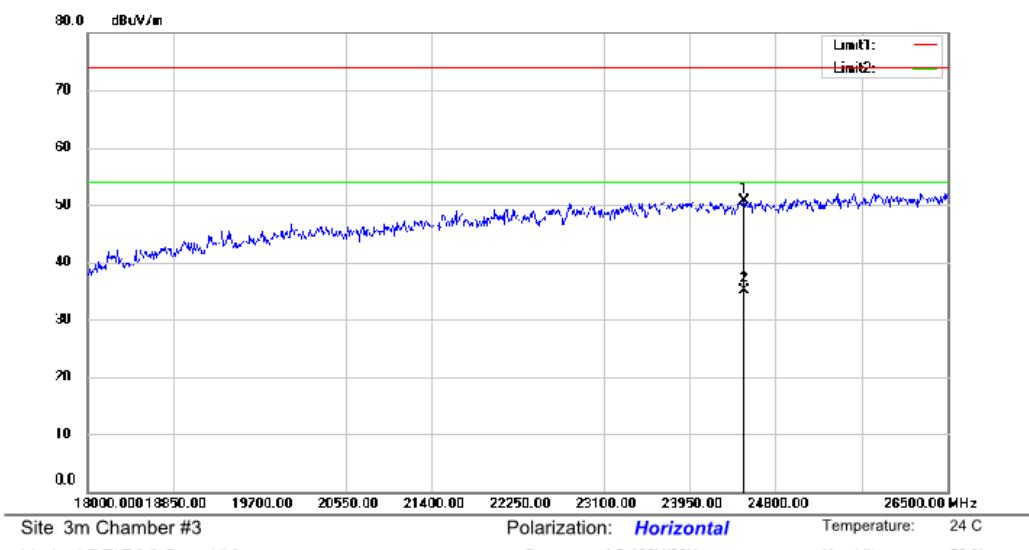

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data :#159

Date: 2017/02/14



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX2405

Note: BU(Tenpao Adapter)

No.	Mk.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
	Freq.	Level	Factor	ment	dBuV/m	dB	Detector	Height	Degree	
	MHz	dBuV	dB		dBuV/m	dB		cm	degree	Comment
1	24485.50	87.79	-37.07	50.72	74.00	-23.28	peak			
2	*	24485.50	-	35.20	54.00	-18.80	AVG			

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

Operator: KK

File :TUVData :#159

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

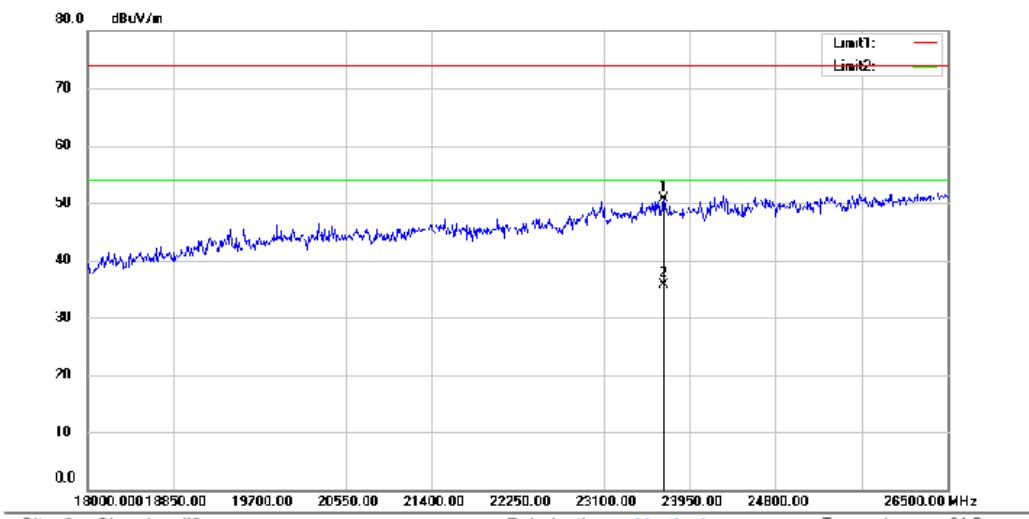


Radiated Emission Measurement

File :TUV

Data #:160

Date: 2017/02/14



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2405

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		23695.00	88.15	-37.45	50.70	74.00	-23.30	peak		
2	*	23695.00	73.15	-37.45	35.70	54.00	-18.30	AVG		

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

Operator: KK

File :TUV\Data #:160

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

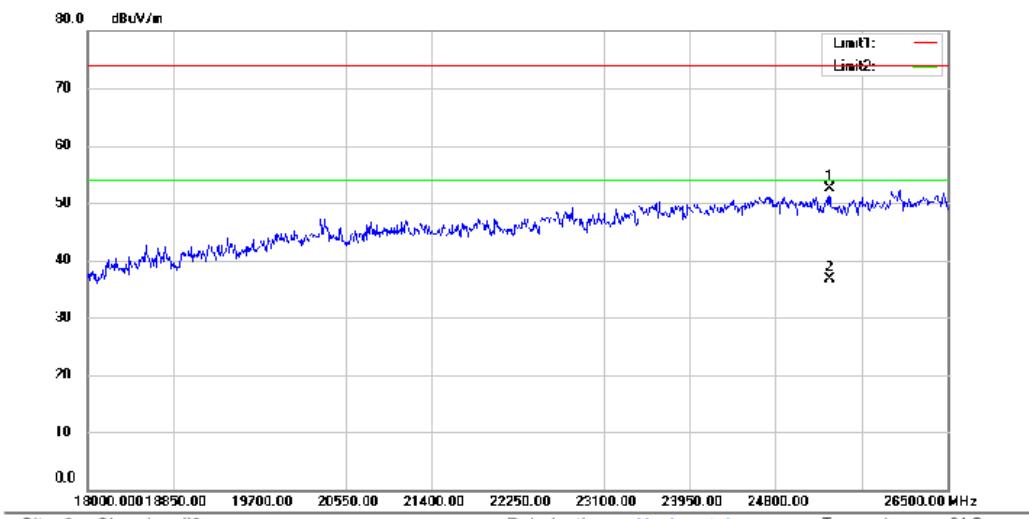


Radiated Emission Measurement

File :TUV

Data #:161

Date: 2017/02/14



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode: TX 2441

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25335.50	89.20	-36.60	52.60	74.00	-21.40	peak		
2	*	25335.50	73.30	-36.60	36.70	54.00	-17.30	AVG		

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

Operator: KK

File :TUV\Data #:161

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

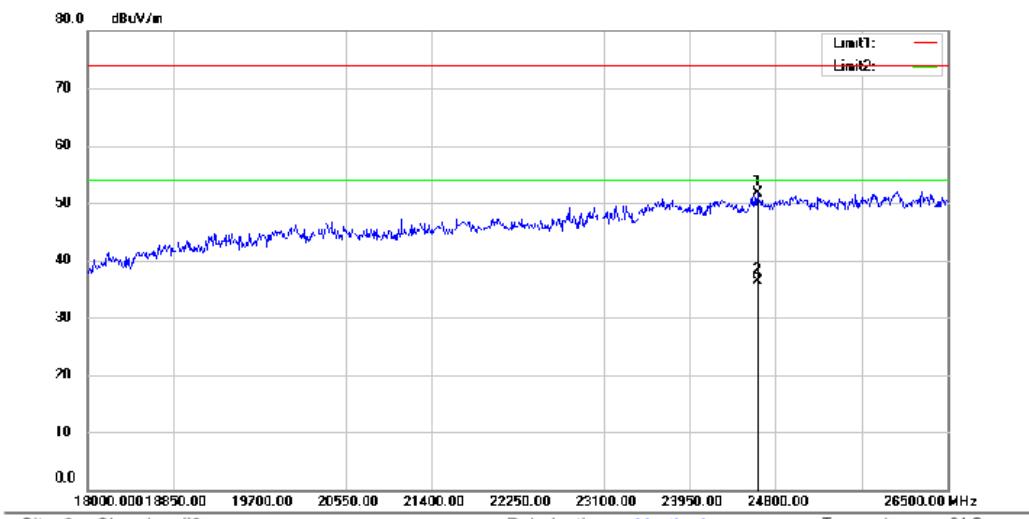


Radiated Emission Measurement

File :TUV

Data #:162

Date: 2017/02/14



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2441

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		24621.50	88.69	-37.06	51.63	74.00	-22.37	peak		
2	*	24621.50	73.46	-37.06	36.40	54.00	-17.60	AVG		

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

Operator: KK

File :TUV\Data #:162

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

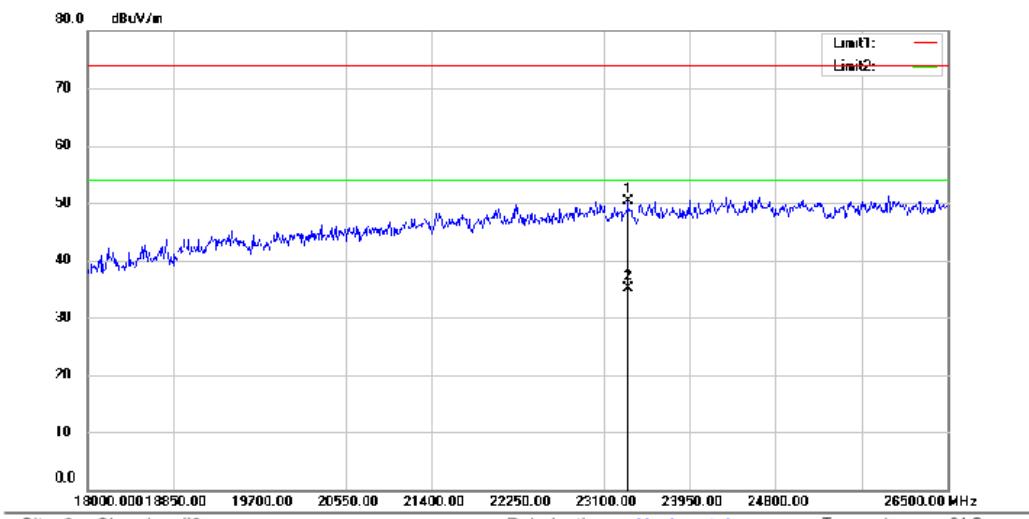

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:163

Date: 2017/02/14



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2475

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		23338.00	88.06	-37.83	50.23	74.00	-23.77	peak		
2	*	23338.00	73.03	-37.83	35.20	54.00	-18.80	AVG		

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

Operator: KK

File :TUV\Data #:163

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

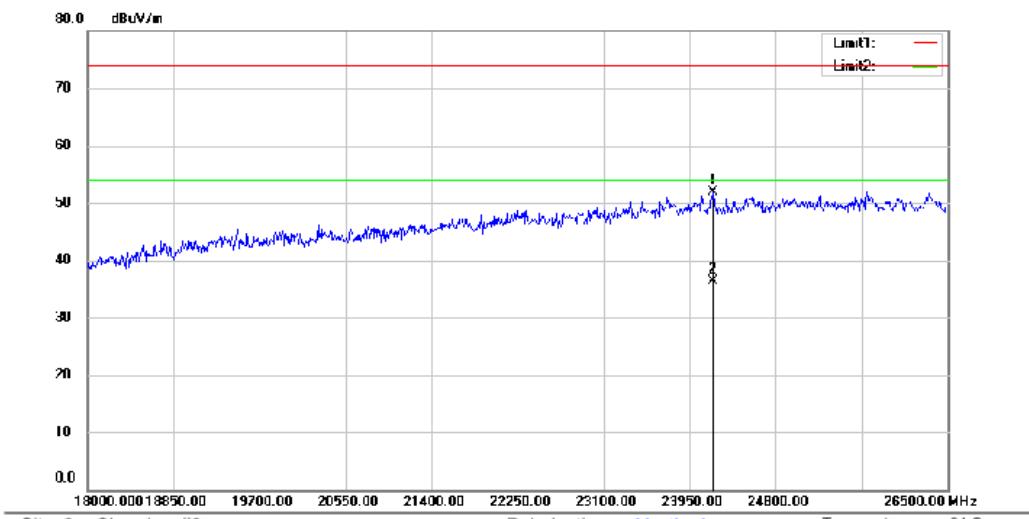


Radiated Emission Measurement

File :TUV

Data #:164

Date: 2017/02/14



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC Part 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2475

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		24179.50	88.96	-37.11	51.85	74.00	-22.15	peak		
2	*	24179.50	73.51	-37.11	36.40	54.00	-17.60	AVG		

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

Operator: KK

File :TUV\Data #:164

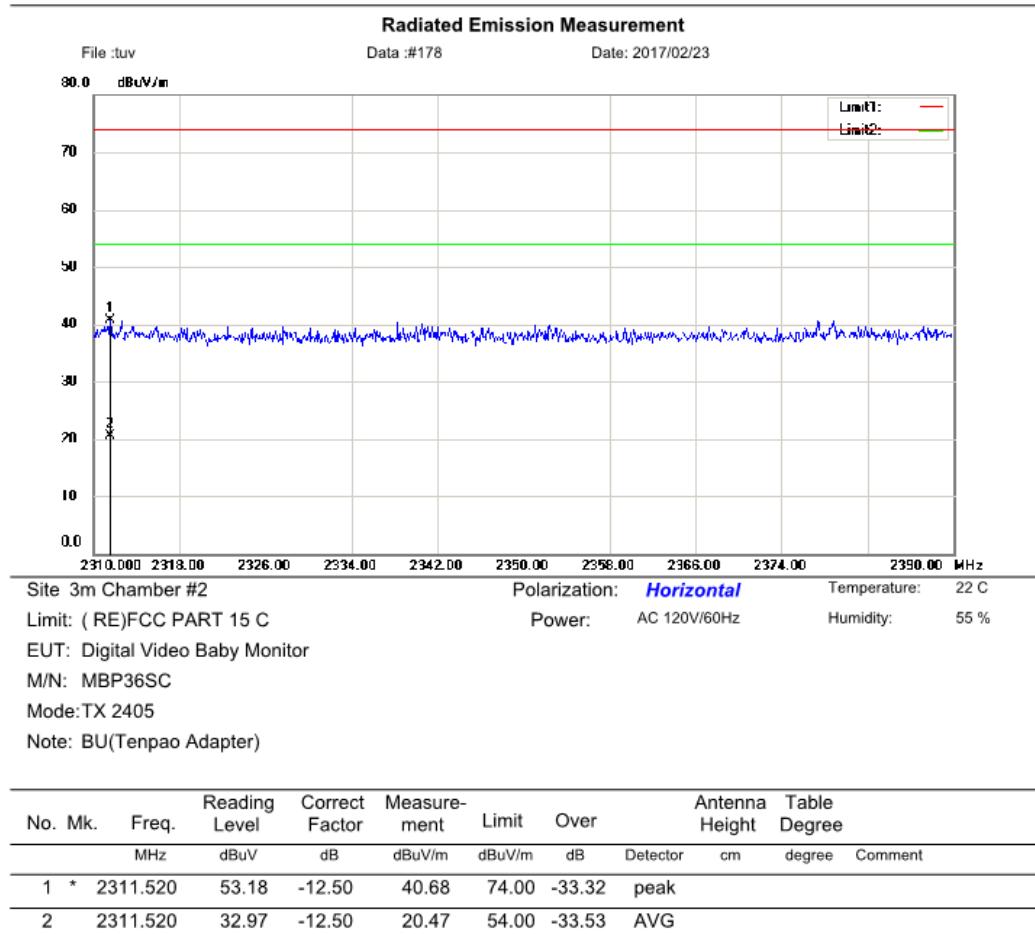
Page: 1

Appendix C.2: Test Results of Radiated Emissions in Restricted Bands

Low Channel

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282


EMTEK Access to the World



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

Operator: CSL

File :tuv\Data #:178

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Radiated Emission Measurement

File :tuv

Data :#179

Date: 2017/02/23



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2405

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2312.960	66.28	-12.50	53.78	74.00	-20.22	peak		
2	*	2312.960	47.08	-12.50	34.58	54.00	-19.42	AVG		

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

Operator: CSL

File :tuv\Data :#179

Page: 1

High Channel

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

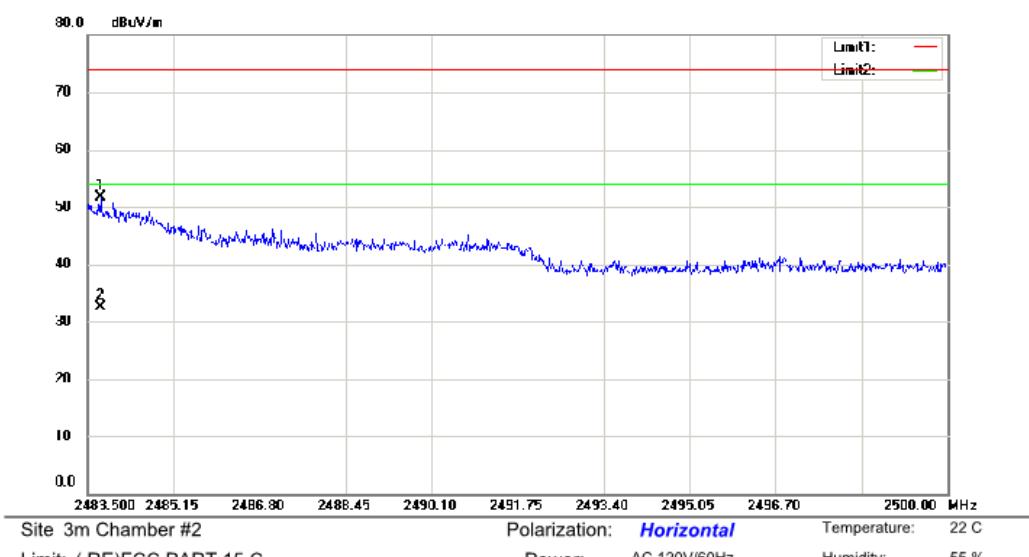


Radiated Emission Measurement

File :tuv

Data #:180

Date: 2017/02/23



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2475

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2483.747	63.30	-11.57	51.73	74.00	-22.27	peak		
2	*	2483.747	44.15	-11.57	32.58	54.00	-21.42	AVG		

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

Operator: CSL

File :tuv\Data #:180

Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Radiated Emission Measurement

File :tuv

Data #:181

Date: 2017/02/23



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode:TX 2475

Note: BU(Tenpao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2483.599	71.88	-11.57	60.31	74.00	-13.69	peak		
2	*	2483.599	52.15	-11.57	40.58	54.00	-13.42	AVG		

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

Operator: CSL

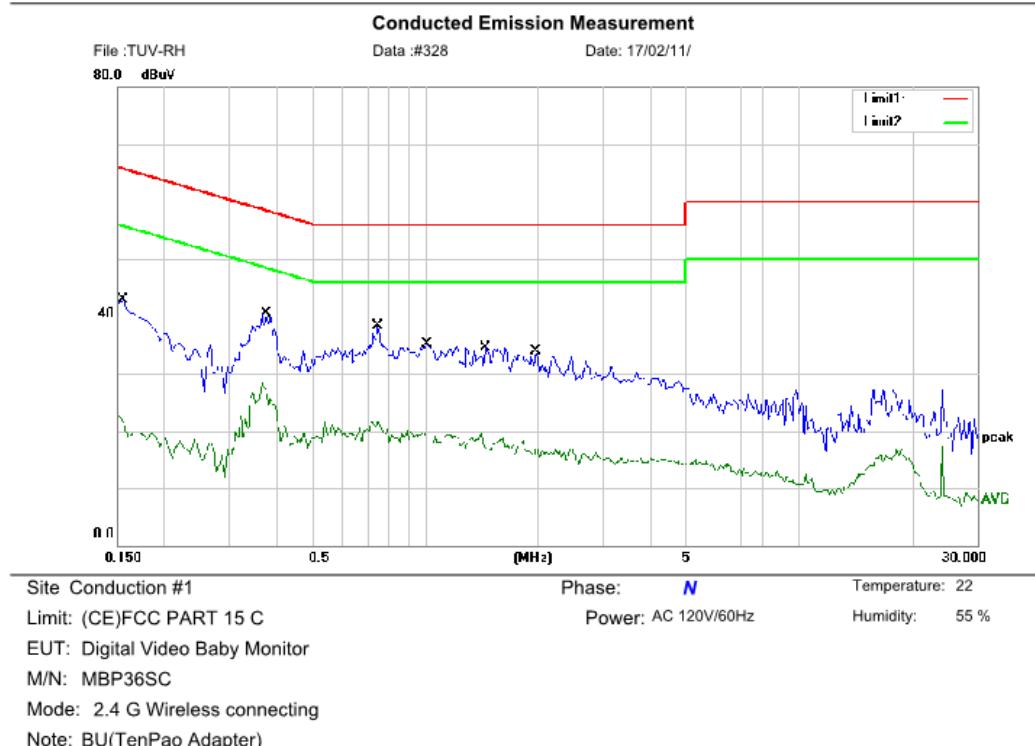
File :tuv\Data .#181

Page: 1

Appendix C.3: Test Results of Conducted Emission on AC Mains

C mode with adapter #1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majiaolong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1550	42.92	0.00	42.92	65.73	-22.81	QP
2		0.1550	22.90	0.00	22.90	55.73	-32.83	AVG
3		0.3750	40.47	0.00	40.47	58.39	-17.92	QP
4		0.3750	28.61	0.00	28.61	48.39	-19.78	AVG
5	*	0.7450	38.21	0.00	38.21	56.00	-17.79	QP
6		0.7450	21.66	0.00	21.66	46.00	-24.34	AVG
7		1.0156	34.97	0.00	34.97	56.00	-21.03	QP
8		1.0156	19.76	0.00	19.76	46.00	-26.24	AVG
9		1.4450	34.60	0.00	34.60	56.00	-21.40	QP
10		1.4450	19.59	0.00	19.59	46.00	-26.41	AVG
11		1.9700	33.96	0.00	33.96	56.00	-22.04	QP
12		1.9700	18.27	0.00	18.27	46.00	-27.73	AVG

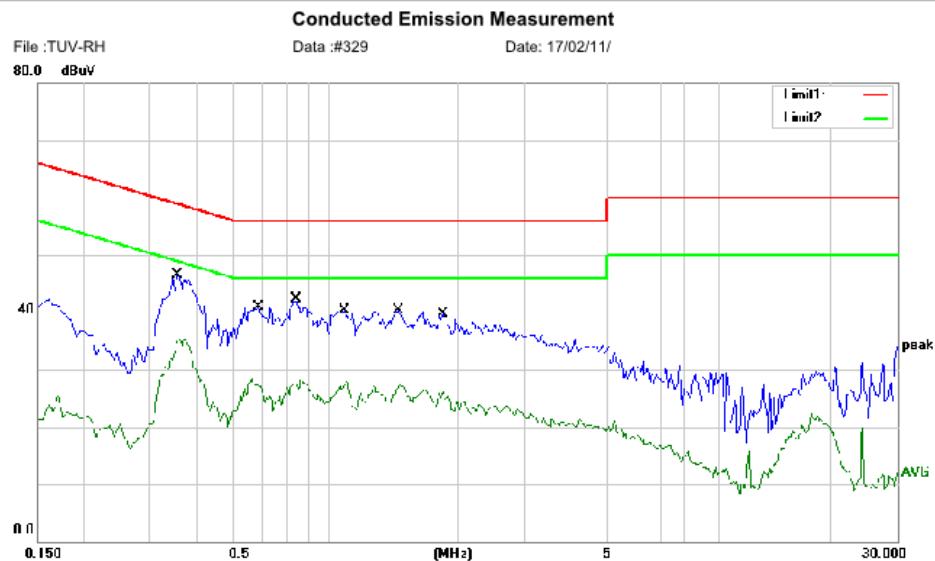
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason

File :TUV-RH\Data :#328

Page: 1

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Access to the World



Site Conduction #1 Phase: **L1** Temperature: 22
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %
 EUT: Digital Video Baby Monitor
 M/N: MBP36SC
 Mode: 2.4 G Wireless connecting
 Note: BU(TenPao Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.3550	46.57	0.00	46.57	58.84	-12.27	QP
2		0.3550	35.40	0.00	35.40	48.84	-13.44	AVG
3		0.5850	40.87	0.00	40.87	56.00	-15.13	QP
4		0.5850	28.51	0.00	28.51	46.00	-17.49	AVG
5		0.7400	42.31	0.00	42.31	56.00	-13.69	QP
6		0.7400	28.33	0.00	28.33	46.00	-17.67	AVG
7		0.9900	40.29	0.00	40.29	56.00	-15.71	QP
8		0.9900	27.83	0.00	27.83	46.00	-18.17	AVG
9		1.3850	40.36	0.00	40.36	56.00	-15.64	QP
10		1.3850	27.27	0.00	27.27	46.00	-18.73	AVG
11		1.8200	39.73	0.00	39.73	56.00	-16.27	QP
12		1.8200	26.15	0.00	26.15	46.00	-19.85	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason

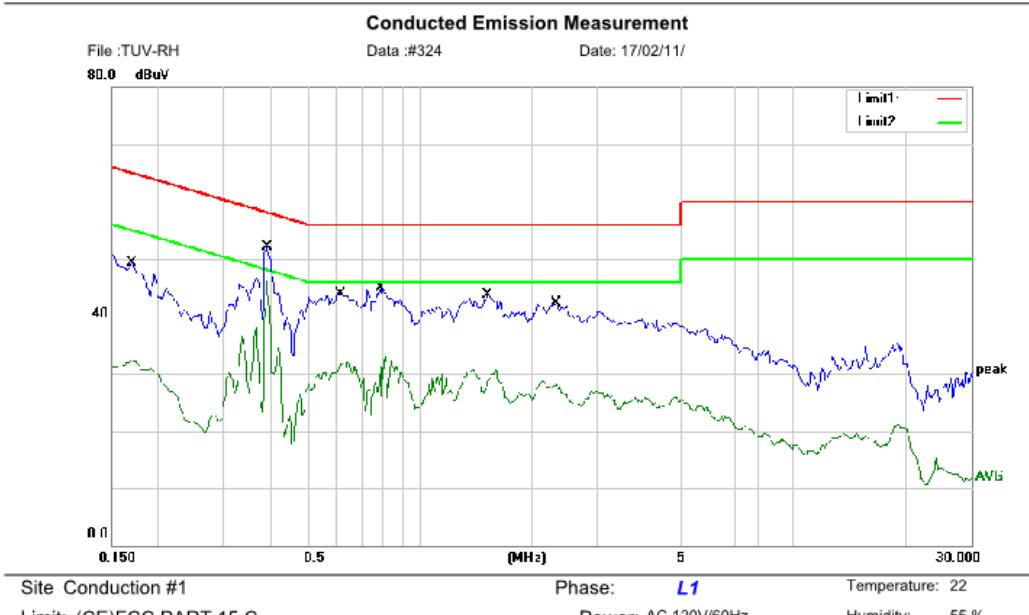
File :TUV-RH\Data #:329

Page: 1

C mode with adapter #2

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


EMTEK Access to the World

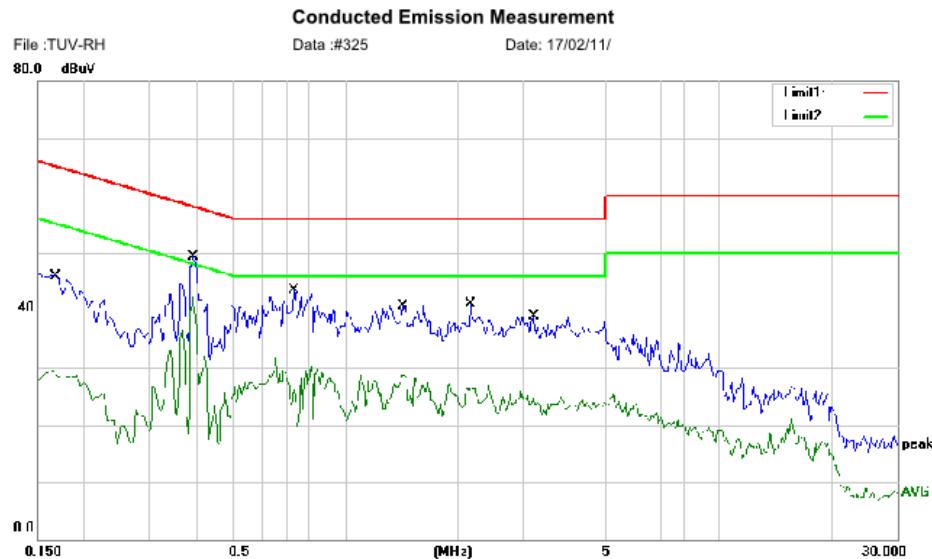


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1700	49.22	0.00	49.22	64.96	-15.74	QP
2		0.1700	32.27	0.00	32.27	54.96	-22.69	AVG
3		0.3900	52.15	0.00	52.15	58.06	-5.91	QP
4	*	0.3900	46.04	0.00	46.04	48.06	-2.02	AVG
5		0.6150	43.87	0.00	43.87	56.00	-12.13	QP
6		0.6150	32.03	0.00	32.03	46.00	-13.97	AVG
7		0.7850	44.97	0.00	44.97	56.00	-11.03	QP
8		0.7850	33.09	0.00	33.09	46.00	-12.91	AVG
9		1.5250	43.75	0.00	43.75	56.00	-12.25	QP
10		1.5250	30.88	0.00	30.88	46.00	-15.12	AVG
11		2.3150	42.30	0.00	42.30	56.00	-13.70	QP
12		2.3150	28.70	0.00	28.70	46.00	-17.30	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason
File :TUV-RH\Data :#324 Page: 1

Shenzhen ENTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


EMTEK Access to the World



Site Conduction #1

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Digital Video Baby Monitor

M/N: MBP36SC

Mode: 2.4 G Wireless connecting

Note: BU(CSEC Adapter)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1685	45.62	0.00	45.62	65.03	-19.41	QP
2		0.1685	29.47	0.00	29.47	55.03	-25.56	AVG
3		0.3900	49.27	0.00	49.27	58.06	-8.79	QP
4	*	0.3900	42.29	0.00	42.29	48.06	-5.77	AVG
5		0.7300	43.55	0.00	43.55	56.00	-12.45	QP
6		0.7300	31.69	0.00	31.69	46.00	-14.31	AVG
7		1.4300	40.79	0.00	40.79	56.00	-15.21	QP
8		1.4300	28.76	0.00	28.76	46.00	-17.24	AVG
9		2.1650	41.12	0.00	41.12	56.00	-14.88	QP
10		2.1650	27.13	0.00	27.13	46.00	-18.87	AVG
11		3.1800	39.00	0.00	39.00	56.00	-17.00	QP
12		3.1800	26.24	0.00	26.24	46.00	-19.76	AVG

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason

File :TUV-RH\Data :#325

Page: 1