Prüfbericht-Nr.: *Test report No.:*	**50317544 001**	**Auftrags-Nr.:** *Order No.:*	168134662 Seite 1 von 25 *Page 1 of 25*
Kunden-Referenz-Nr.: *Client reference No.:*	N/A	**Auftragsdatum:** *Order date.:*	09.10.2019
Auftraggeber: *Client:*	**Binatone Electronics International Ltd.** Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong		
Prüfgegenstand: *Test item:*	4.3" HD Wi-Fi® video baby monitor (Parent Unit)		
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	LUX64CONNECTPU, LUX64PU (Trademark: motorola)		
Auftrags-Inhalt: *Order content:*	FCC and IC approval		
Prüfgrundlage: *Test specification:*	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 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 CFR47 FCC Part 2: Section 2.1091		RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 April 2018 ICES-003 Issue 6 January 2016 RSS-102 Issue 5 March 2015

Wareneingangsdatum: *Date of receipt:*	09.10.2019
Prüfmuster-Nr.: *Test sample No.:*	A000999977-001~003
Prüfzeitraum: *Testing period:*	09.10.2019 - 14.11.2019
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result*:*	Pass

Please refer to photo documents

geprüft von / *tested by:*

Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*
14.01.2020	Ryan Yang / Assistant Project Manager	

kontrolliert von / *reviewed by:*

Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*
14.01.2020	Winnie Hou / Technical Certifier	

Sonstiges / *Other:*

FCC ID: VLJ-LUX64PU

IC: 4522A-LUX64PU HVIN: LUX64CONNECTPU

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
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 = not applicable	N/T = not tested

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

5.1.11 RADIATED EMISSION
RESULT: Pass

Contents

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 2.4GHz FHSS

Appendix C: Test Results of Part 15B and ICES 003

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
1F East & 2-4F, Cybio Technology Building No. 1, No. 16 Kejibei 2nd Road, High-Tech Industrial Park North Nanshan District, Shenzhen, 518057

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Wireless Connectivity Tester	R&S	CMW270	101375	20.08.2020
Signal Analyzer	R&S	FSV 40	101441	20.08.2020
Vector Signal Generator	R&S	SMBV100A	263301	21.08.2020
Signal Generator	R&S	SMB100A	115186	21.08.2020
OSP	R&S	OSP 150	101017	20.12.2019
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V10.40.10)	N/A	N/A
Power Meter	R&S	NRP2	107105	20.12.2019
Wideband Power Sensor	R&S	NRP-Z81	105350	20.12.2019
Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Signal Generator	R&S	SMB100A	180840	20.08.2020
Wideband Radio Communication Tester	R&S	CMW500	165339	20.08.2020
Signal Analyzer	R&S	FSV 40	101440	20.08.2020
System Controller Interface	R&S	SCI-100	S10010036	N/A
Filterbank	R&S	CDMA	100751	21.08.2020
Filterbank	R&S	GSM	100811	21.08.2020

OSP	R&S	OSP 120	102041	N/A
OSP	R&S	OSP 150	101385	N/A
Pre-amplifier	R&S	SCU08F1	08320030	20.08.2020
Amplifier	R&S	SCU-18F	180079	20.08.2020
Amplifier	R&S	SCU40A	100450	20.08.2020
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	02.09.2020
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	02.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19066	02.09.2020
Conducted Emission on AC Mains				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102428	19.08.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
Radiated Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR7	102022	19.08.2020
Bilog Antenna	TESEQ	CBL6112D	51321	29.08.2020

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 basics 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
Radio Frequency	±1 x 10-7
RF Power (conducted)	±2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	±6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

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) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 1F East & 2-4F, Cybio Technology Building No. 1, No. 16 Kejibei 2nd Road, High-Tech Industrial Park North Nanshan District, Shenzhen, 518057 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 parent unit (monitor) of one of the 4.3" HD Wi-Fi® video baby monitor, which supports 2.4GHz FHSS 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.

The parent unit is supplied by external adapters and battery, see below table for details:

Test EUT (Model No.)	Parent Unit		Supplier
	Supported	Tested	
Adapter #1 *(S005BNU0500100)*	☒	☒	Tenpao
Adapter #2 *(YWK-AD050100-U)*	☒	☒	YWK
Adapter #3 *(BQ06A-0501000-U)*	☒	☒	BECKY
Battery #1 *(BL253)*	☒	☒	Lenovo

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	4.3" HD Wi-Fi® video baby monitor (Parent Unit)
Type Designation	LUX64CONNECTPU, LUX64PU
Trade Mark	motorola
FCC ID	VLJ-LUX64PU
IC	4522A-LUX64PU
HVIN	LUX64CONNECTPU
Operating Voltage	DC 5.0V@1000mA input via AC/DC adapter DC 3.8V@2000mAh input via internal Li-ion battery
Testing Voltage	Fully charged battery for Part 15C AC120V@60Hz for Part 15B
AC/DC Adapter #1	Model: S005BNV0500100 (Tenpao) Input: AC 100-240V~50/60Hz, 150mA Output: DC 5.0V@1.0A

AC/DC Adapter #2	Model: YWK-AD050100-U(YWK) Input: AC 100-240V~50/60Hz, 0.3A Output: DC 5.0V@1.0A
AC/DC Adapter #3	Model: BQ06A-0501000-G(BECKY) Input: AC 100-240V~50/60Hz, 300mA Output: DC 5.0V@1.0A
Battery #1	Model: BL253 (Lenovo) DC 3.8V@2000mAh/7.6Wh Li-ion battery
Technical Specification of General 2.4GHz	
Operating Frequency	2402 - 2477 MHz
Type of Modulation	GFSK
Channel Number	22 channels
Channel Separation	2 MHz / 5 MHz
Antenna Type	Integral Antenna
Gain	0 dBi

Table 3: RF Channel and Frequency of General 2.4GHz

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
01	**2402**	07	2420	13	2450	19	2471
02	2404	08	2425	14	2455	20	2473
03	2406	09	2430	15	2460	21	2475
04	2408	10	2435	16	2465	**22**	**2477**
05	2410	**11**	**2440**	17	2467	/	/
06	2415	12	2445	18	2469	/	/

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2477 MHz.

3.3 Independent Operation Modes

The basic operation modes are:

A. On, 2.4GHz FHSS wireless transmitting mode
    1. Low channel
    2. Middle channel
    3. High channel
B. On, Transmitting on hopping channel
C. On, Normal operation with 2.4GHz FHSS mode
D. On, Charging mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Rating Label
- 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 tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

According to clause 3.1, all tests were performed on model LUX64CONNECTPU in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A
4.3" HD Wi-Fi® video baby monitor (Baby Unit)	King Chuang	LUX64CONNECTBU	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

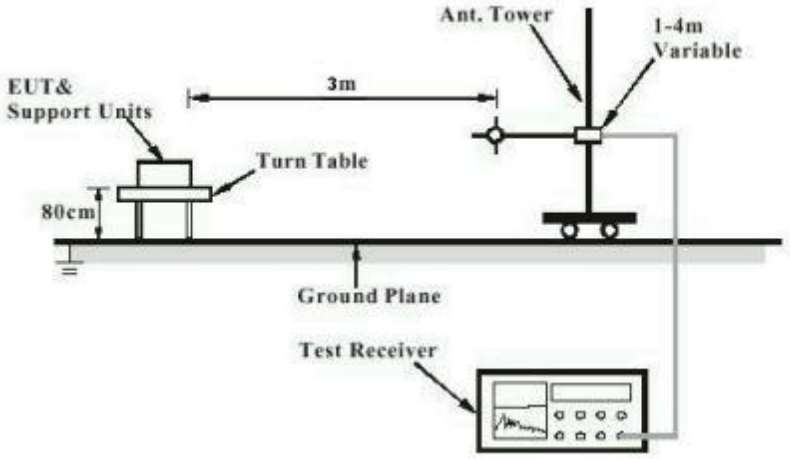


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

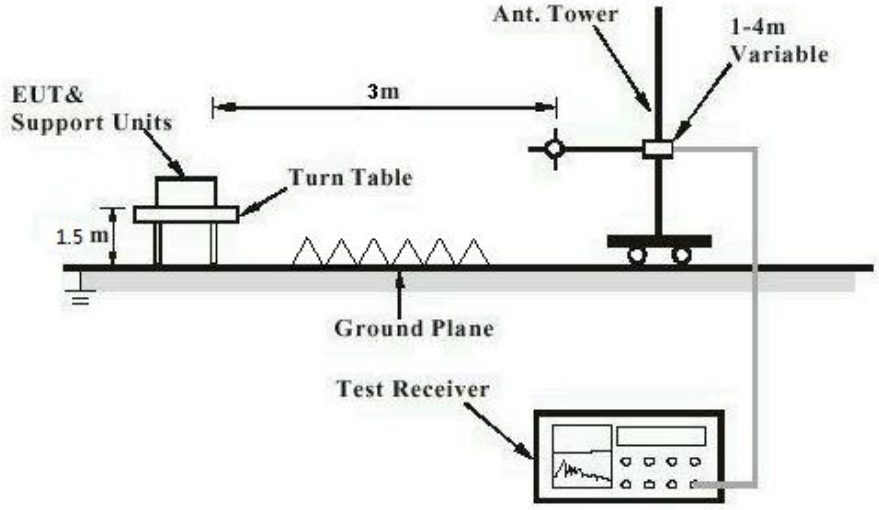


Diagram of Measurement Configuration for Mains Conduction Measurement

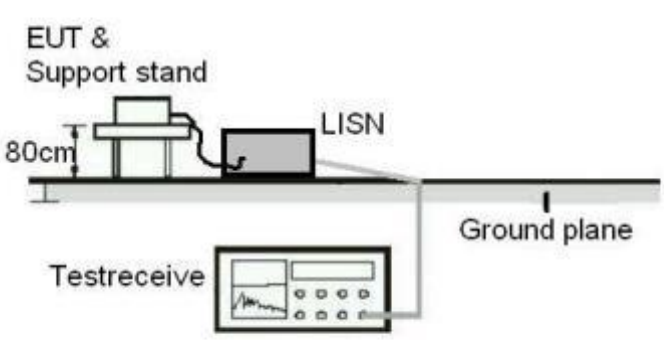
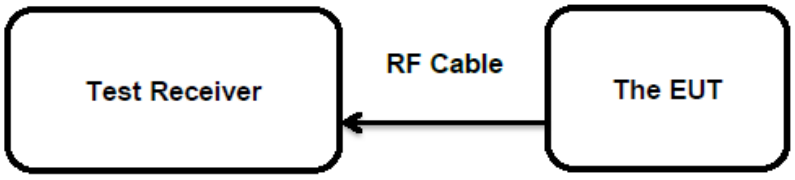


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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.

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(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS < 0.125 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	04.11.2019
Input voltage	:	Fully charged battery
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 5: Test Result of Maximum Peak Conducted Output Power, 2.4GHz FHSS

Test Mode	Test Channel	Measured Peak Power		Limit (W)
		(dBm)	(W)	
FHSS	Low CH	18.10	0.0646	< 0.125
	Middle CH	17.80	0.0603	
	High CH	17.30	0.0537	
Maximum Measured Value		18.10	0.0646	

Note:
1) The cable loss is taken into account in results.
2) Antenna gain(G) of FHSS: 0 dBi,
e.i.r.p. = $P_{(Peak\ power)}$ + G, which is far below the 4 W

For the measurement records, refer to the appendix B.

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	:	04.11.2019
Input voltage	:	Fully charged battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 6: Test Result of 99% Bandwidth, 2.4GHz FHSS

Test Mode	Test Channel	99% Bandwidth (MHz)	Limit
FHSS	Low CH	2.31	/
	Middle CH	2.29	
	High CH	2.33	
Maximum Measured Value		2.33	

For the measurement records, refer to the appendix B.

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	:	07.11.2019
Input voltage	:	Fully charged battery
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.

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	:	FCC Part 15.209(a) RSS-Gen Table 4
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	Fully charged battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	53 %
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 B.

5.1.6 20dB Bandwidth

RESULT: **Pass**

Test Specification

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

Test Setup

Date of testing	:	04.11.2019
Input voltage	:	Fully charged battery
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 20dB Bandwidth, 2.4GHz FHSS

Test Mode	Test Channel	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
FHSS	Low CH	2190.00	1460.00	/
	Middle CH	2240.00	1493.33	
	High CH	2290.00	1526.67	
Maximum Measured Value		2290.00	1526.67	

For the measurement records, refer to the appendix B.

5.1.7 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

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

Test Setup

Date of testing	:	04.11.2019
Input voltage	:	Fully charged battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 8: Test Result of Carrier Frequency Separation, 2.4GHz FHSS

Test Mode	Test Channel	Test Channel (MHz)	Measured Channel Separation (KHz)	Limit (kHz)
FHSS	Low Channel	2402.00	1930.69	≥ 25kHz or 2/3 of 20dB bandwidth
	Adjacency Channel	2404.00		
	Middle Channel	2440.00	5049.50	
	Adjacency Channel	2445.00		
	High Channel	2477.00	1930.69	
	Adjacency Channel	2475.00		

Note: The limit is maximum 2/3 of the 20 dB bandwidth: 1526.67 KHz.

For the measurement records, refer to the appendix B.

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(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.11.2019
Input voltage	:	Fully charged battery
Operation mode	:	B
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 9: Test Result of Number of Hopping Frequency, 2.4GHz FHSS

Test Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
FHSS	2402 - 2477 MHz	22	≥15

For the measurement records, refer to the appendix B.

5.1.9 Time of Occupancy

RESULT: **Pass**

Test Specification

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

Test Setup

Date of testing	:	04.11.2019
Input voltage	:	Fully charged battery
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Note:
Dwell time = Pulse width x Number of channels in Period
Period = 0.4 (seconds/ channel) x 22 (channel) = 8.8 seconds

For the measurement records, refer to the appendix B.

5.1.10 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003 Table 2
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	Fully charged battery
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B & C.

5.1.11 Radiated Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.109(a) ICES-003
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limits	:	FCC Part 15.109(a) ICES-003 Table 5 & Table 7
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	Fully charged battery
Operation mode	:	C, D
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix C.

6 Photographs of the Test Set-Up

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

7 List of Tables

Appendix B: Test Results of 2.4GHz FHSS

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

Low Channel

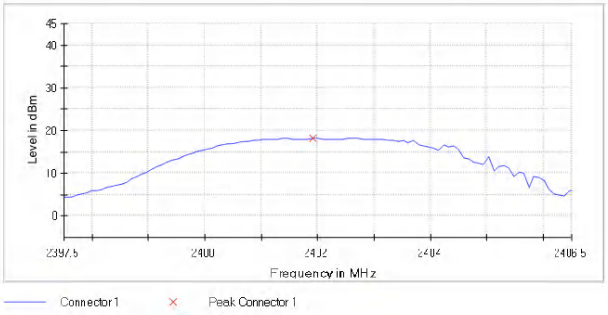
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Peak output power (Sweep) (2402 MHz; 18.000 dBm; 2 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	18.1	21.0	PASS



Peak Power 1

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39750 GHz	2.39750 GHz
Stop Frequency	2.40650 GHz	2.40650 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.190 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Middle Channel

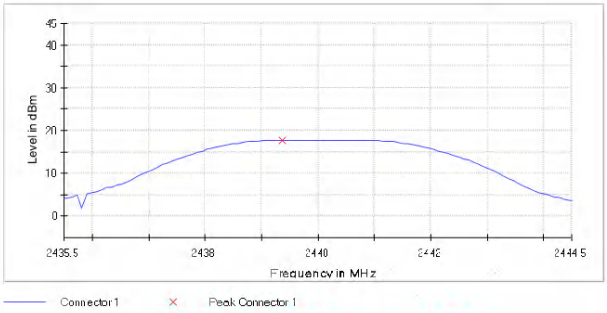
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Peak output power (Sweep) (2440 MHz; 18.000 dBm; 2 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2440.000000	17.8	21.0	PASS



Peak Power 1

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43550 GHz	2.43550 GHz
Stop Frequency	2.44450 GHz	2.44450 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.240 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.02 dB	0.50 dB

High Channel

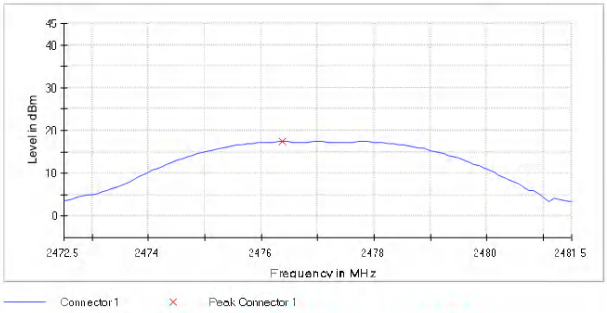
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Peak output power (Sweep) (2477 MHz; 18.000 dBm; 2 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2477.000000	17.3	21.0	PASS



Peak Power 1

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47250 GHz	2.47250 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	9.000 MHz	9.000 MHz
RBW	3.000 MHz	>= 2.290 MHz
VBW	10.000 MHz	>= 9.000 MHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Appendix B.2: Test Results of 99% Bandwidth

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 18.000 dBm; 2 MHz; Test Mode)

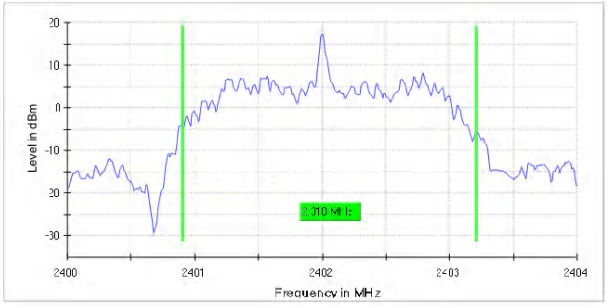
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.310000	---	---	2400.905000	2403.215000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2440 MHz; 18.000 dBm; 2 MHz; Test Mode)

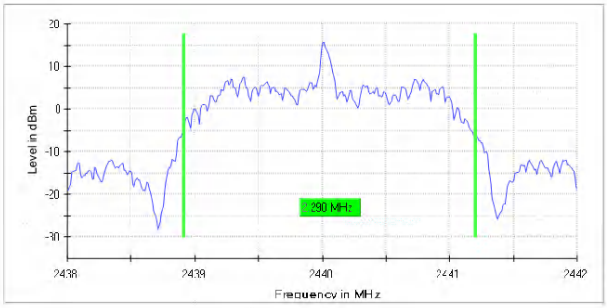
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.290000	---	---	2438.915000	2441.205000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	16 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2477 MHz; 18.000 dBm; 2 MHz; Test Mode)

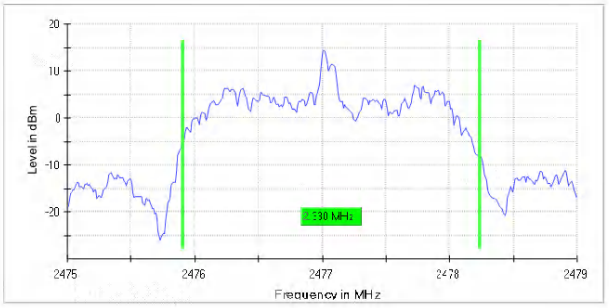
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2477.000000	2.330000	---	---	2475.905000	2478.235000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2477.000000	PASS



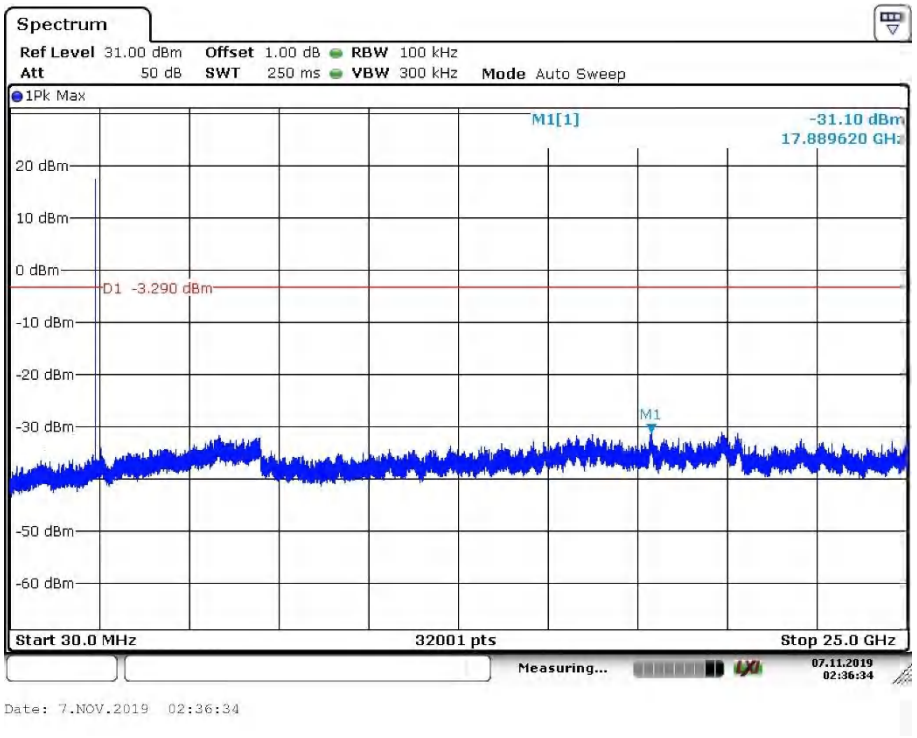
Bandwidth

Measurement

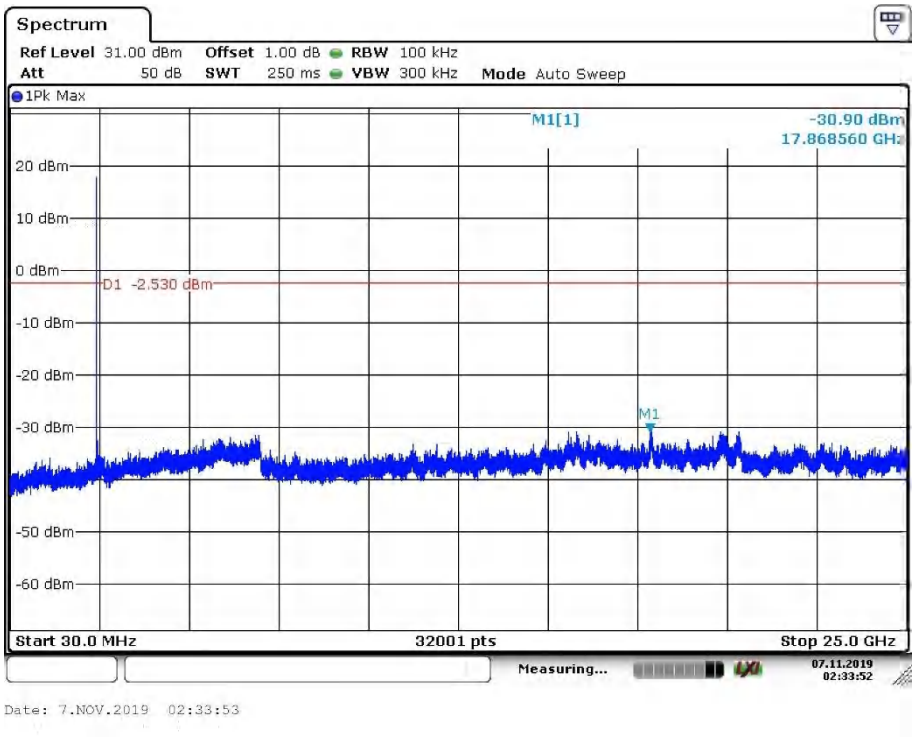
Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.47900 GHz	2.47900 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	16 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

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

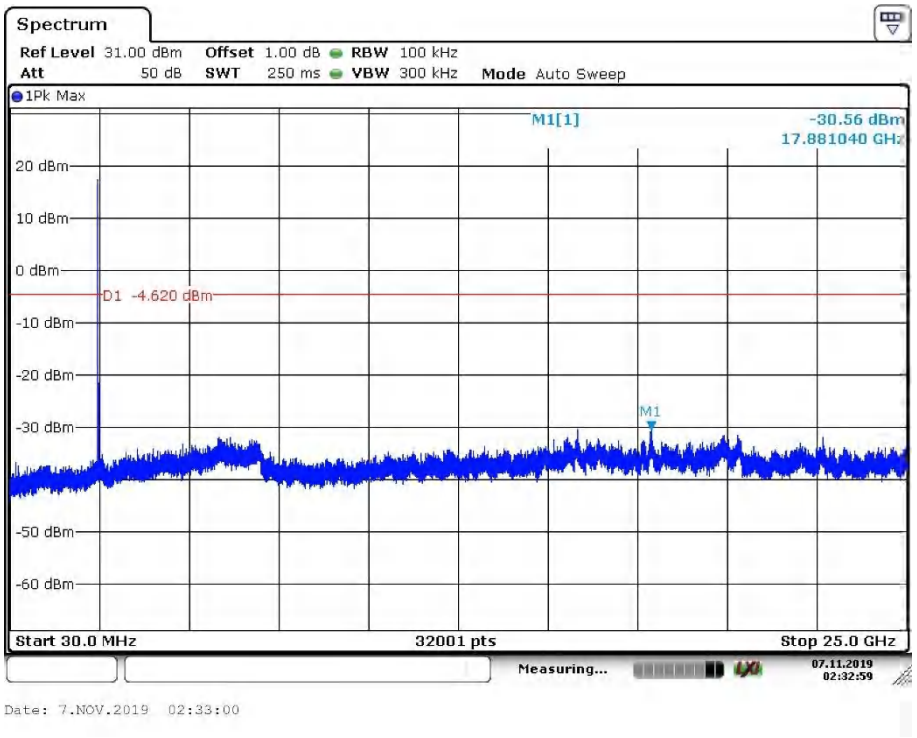
Low Channel



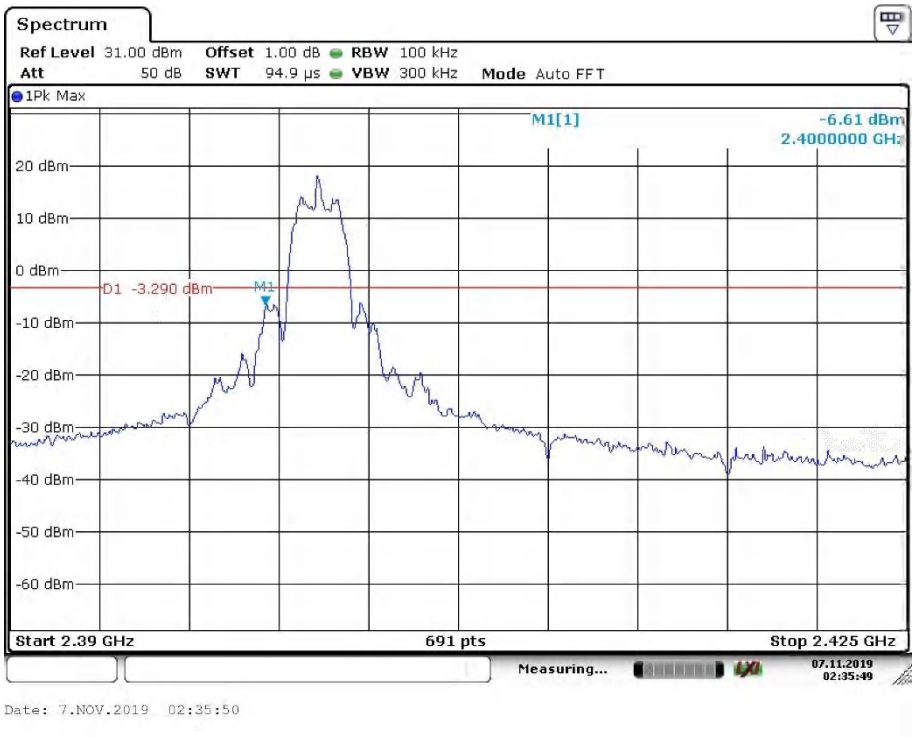
Middle Channel



High Channel

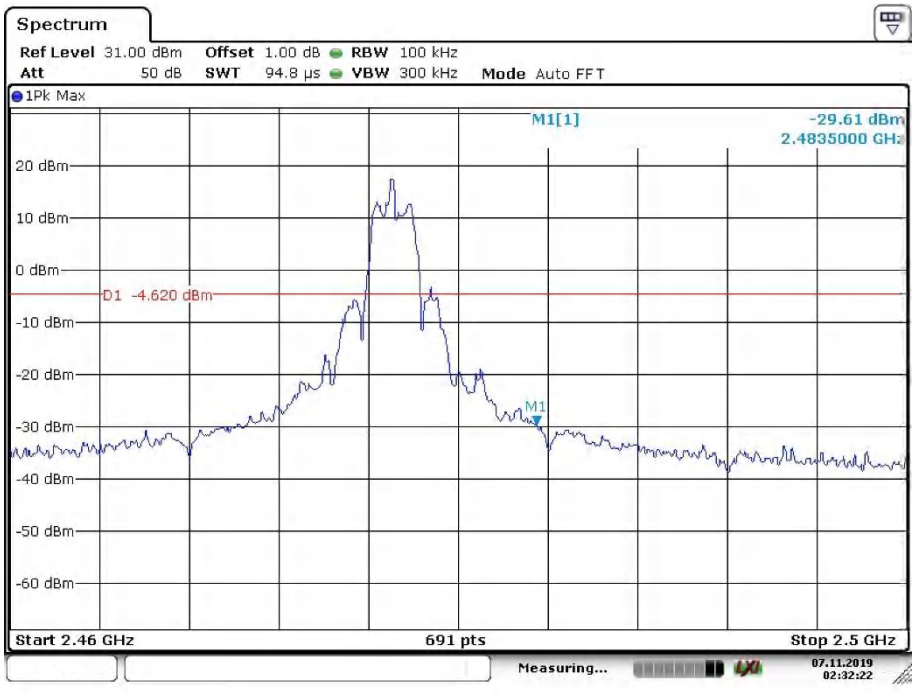


Band Edge, Low Channel



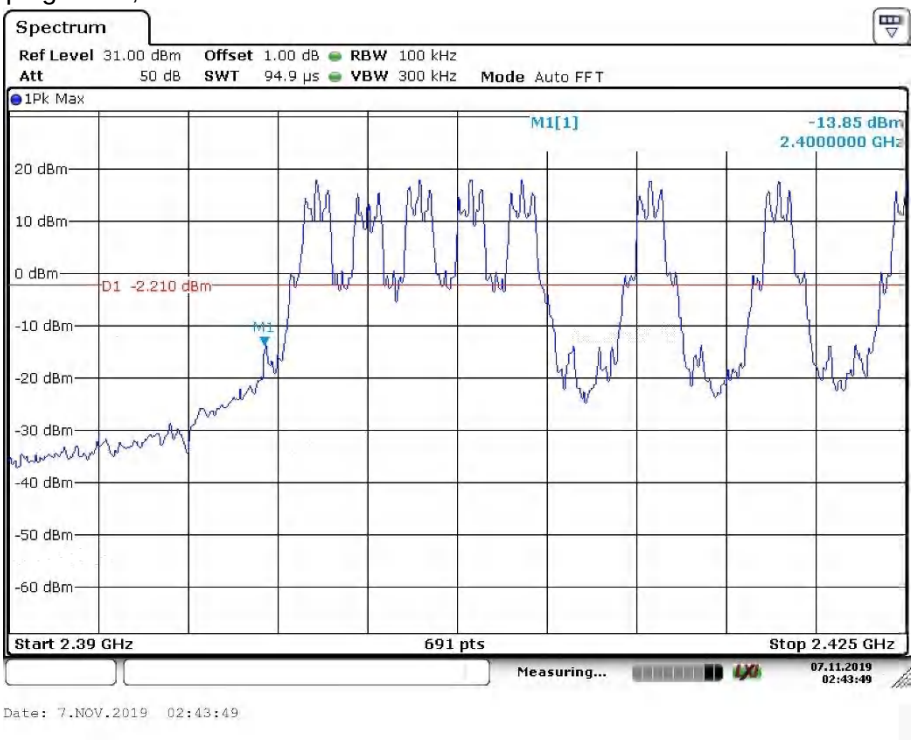
Date: 7.NOV.2019 02:35:50

Band Edge, High Channel



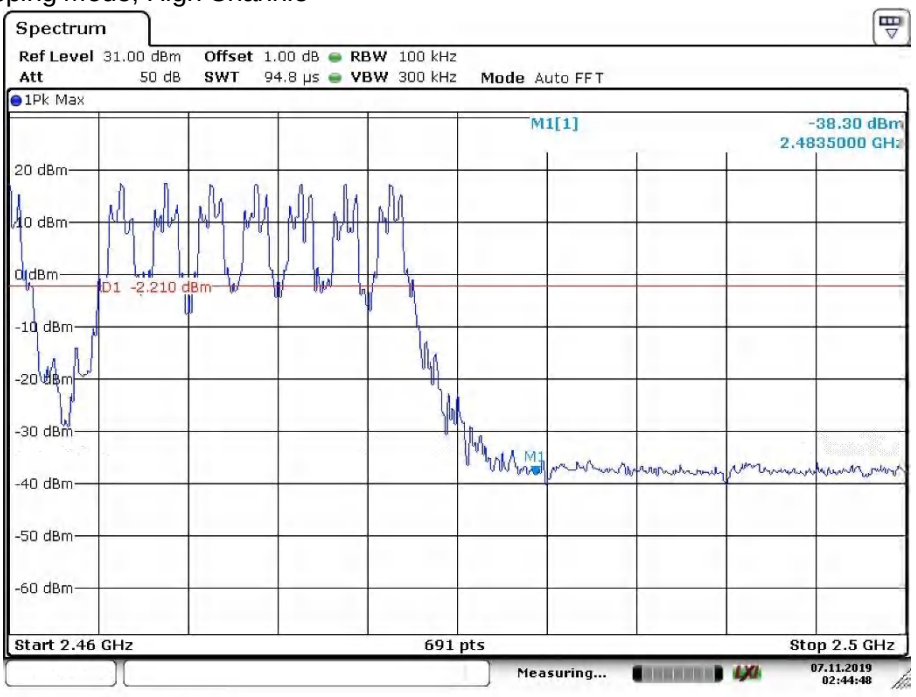
Date: 7.NOV.2019 02:32:23

Band Edge, Hopping Mode, Low Channel



Date: 7.NOV.2019 02:43:49

Band Edge, Hopping Mode, High Channle



Date: 7.NOV.2019 02:44:49

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.4: Test Results of Radiated Spurious Emissions

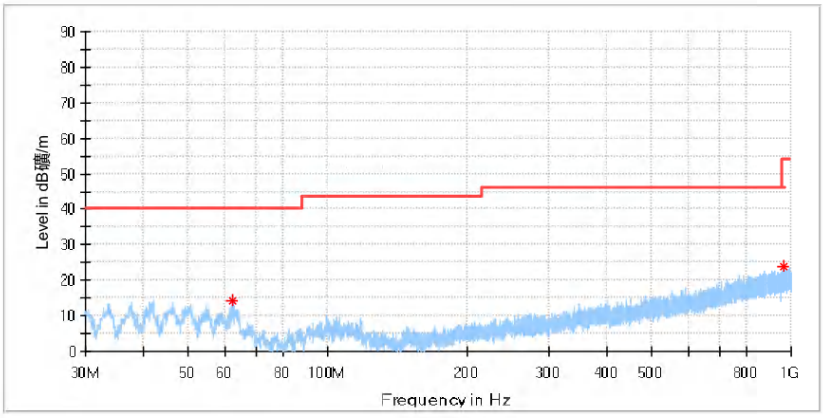
30MHz - 1GHz (Worst case)

Test 1 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Low Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.446500	14.29	---	40.00	25.71	100.0	H	277.0	-19.8
963.673500	23.80	---	46.00	22.20	100.0	H	32.0	-4.7

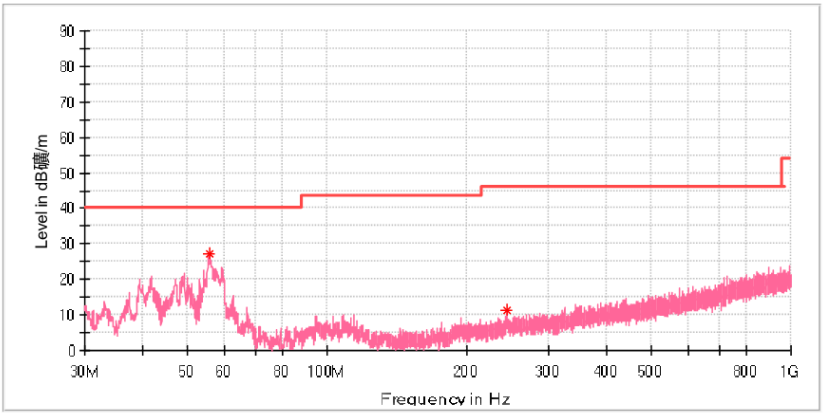
8/11/2019 5:23:42 PM

Test 2 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Low Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

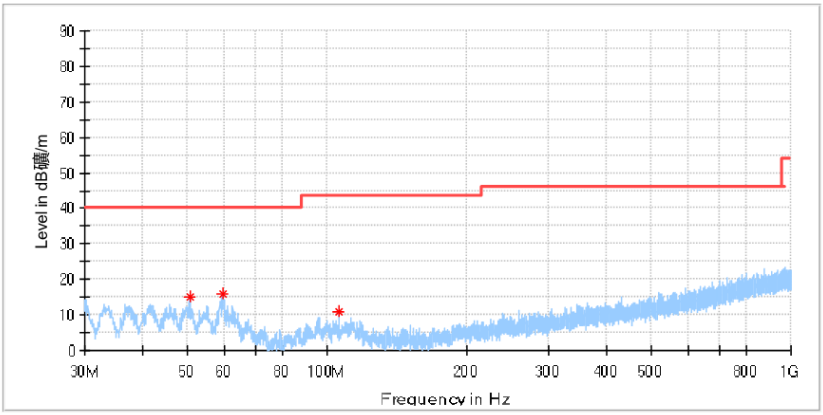
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.753500	27.27	---	40.00	12.73	100.0	V	199.0	-18.8
244.758000	11.26	---	46.00	34.74	100.0	V	181.0	-17.9

Test 3 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_High Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

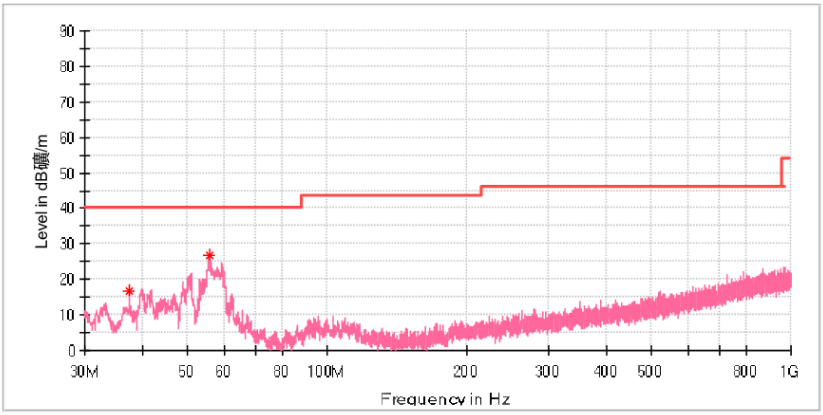
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.515500	15.18	---	40.00	24.82	100.0	H	194.0	-18.6
59.391000	15.96	---	40.00	24.04	100.0	H	154.0	-19.2
106.242000	10.80	---	43.50	32.70	100.0	H	252.0	-19.2

Test 4 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_High Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.420500	16.70	---	40.00	23.30	100.0	V	150.0	-21.3
55.705000	26.95	---	40.00	13.05	100.0	V	281.0	-18.8

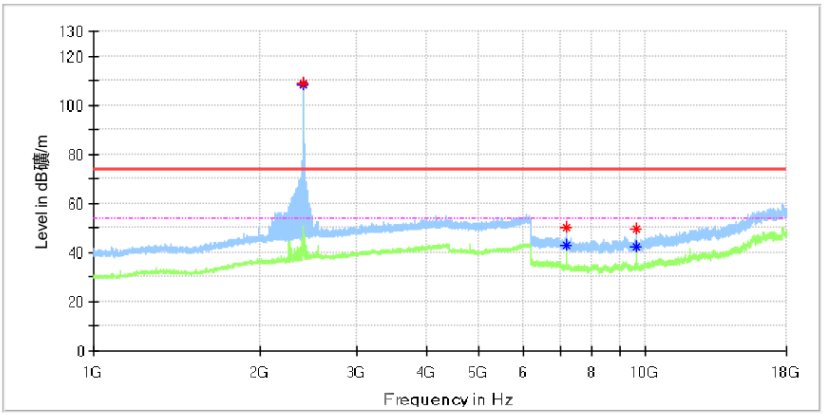
1GHz - 18GHz
Low Channel

Test 1 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Low Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

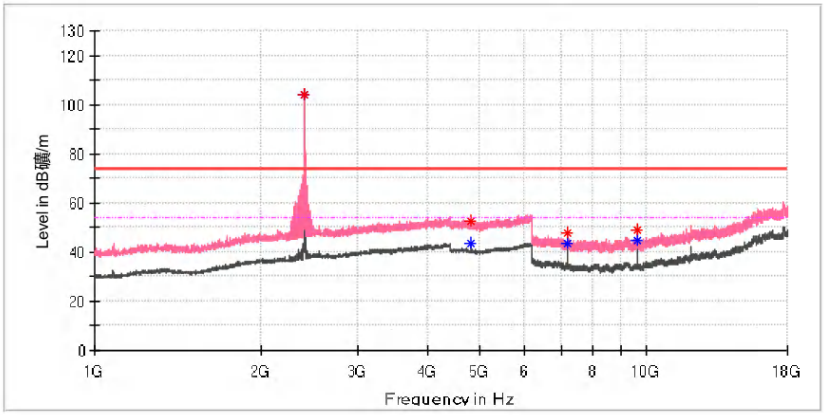
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	---	108.27	54.00	-54.27	100.0	H	226.0	7.0
2402.500000	108.63	---	74.00	-34.63	100.0	H	226.0	7.0
7203.983333	49.92	---	74.00	24.08	100.0	H	236.0	8.8
7203.983333	---	43.03	54.00	10.97	100.0	H	236.0	8.8
9605.283333	---	42.22	54.00	11.78	100.0	H	156.0	10.4
9605.283333	49.63	---	74.00	24.37	100.0	H	156.0	10.4

Test 2 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Low Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.000000	---	103.87	54.00	-49.87	100.0	V	84.0	7.0
2402.500000	104.25	---	74.00	-30.25	100.0	V	84.0	7.0
4802.500000	52.79	---	74.00	21.21	100.0	V	162.0	13.6
4802.500000	---	43.62	54.00	10.38	100.0	V	162.0	13.6
7205.458333	---	43.43	54.00	10.57	100.0	V	264.0	8.8
7205.458333	47.56	---	74.00	26.44	100.0	V	264.0	8.8
9607.741667	---	44.89	54.00	9.11	100.0	V	230.0	10.4
9607.741667	48.84	---	74.00	25.16	100.0	V	230.0	10.4

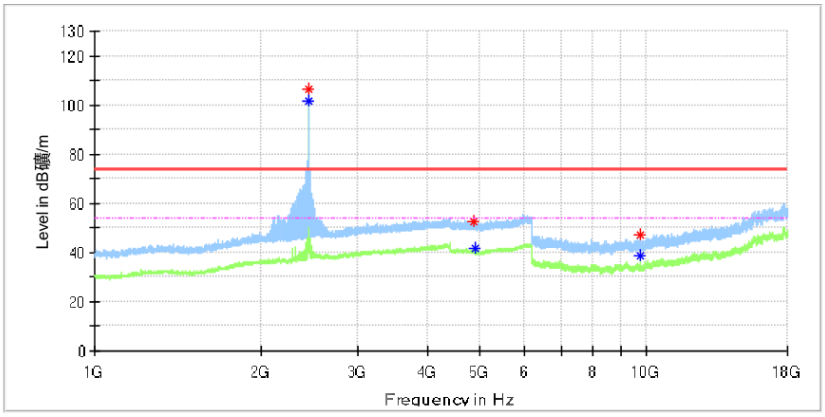
Middle Channel

Test 3 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Mid Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

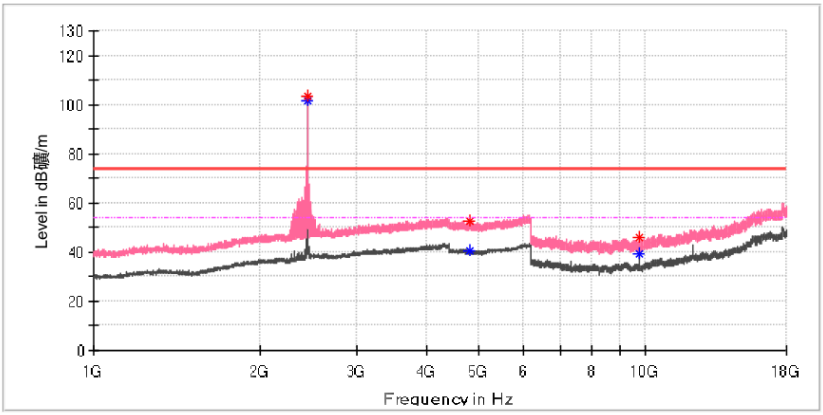
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.500000	---	101.85	54.00	-47.85	100.0	H	187.0	7.4
2439.500000	106.30	---	74.00	-32.30	100.0	H	187.0	7.4
4869.000000	52.39	---	74.00	21.61	100.0	H	47.0	13.4
4878.500000	---	41.98	54.00	12.02	100.0	H	282.0	13.4
9762.616667	---	38.78	54.00	15.22	100.0	H	125.0	10.4
9762.616667	47.36	---	74.00	26.64	100.0	H	125.0	10.4

Test 4 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_Mid Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.000000	---	101.57	54.00	-47.57	100.0	V	150.0	7.4
2441.000000	103.56	---	74.00	-29.56	100.0	V	150.0	7.4
4800.000000	52.70	---	74.00	21.30	100.0	V	113.0	13.6
4800.500000	---	40.63	54.00	13.37	100.0	V	270.0	13.6
9757.208333	46.21	---	74.00	27.79	100.0	V	278.0	10.4
9757.700000	---	39.35	54.00	14.65	100.0	V	278.0	10.4

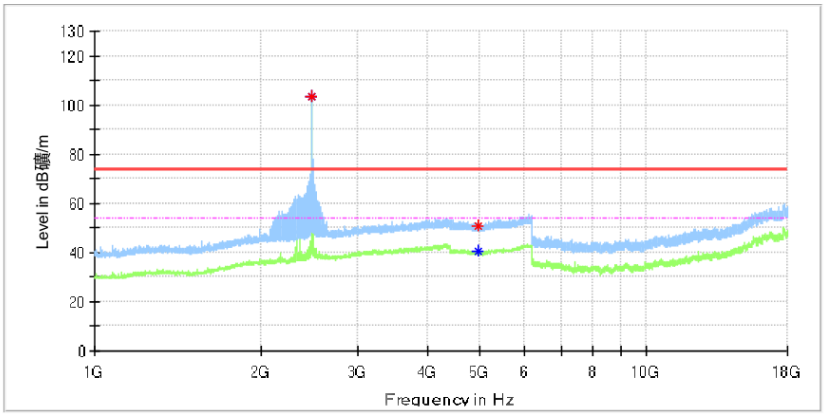
High Channel

Test 5 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_High Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

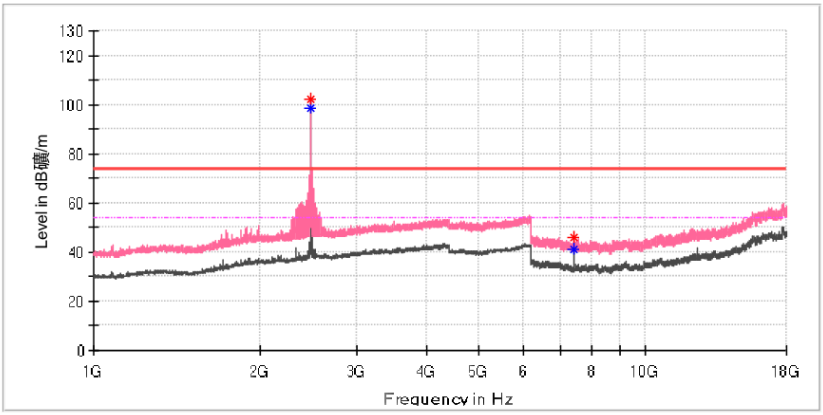
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2477.000000	---	103.13	54.00	-49.13	100.0	H	93.0	7.4
2477.000000	103.46	---	74.00	-29.46	100.0	H	93.0	7.4
4955.000000	51.05	---	74.00	22.95	100.0	H	154.0	13.2
4955.500000	---	40.66	54.00	13.34	100.0	H	104.0	13.2

Test 6 / 6

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX65PU
Test Mode:	TX_High Channel
Test Voltage::	Fully charged battery
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2476.500000	102.41	---	74.00	-28.41	100.0	V	30.0	7.4
2477.000000	---	98.86	54.00	-44.86	100.0	V	30.0	7.4
7431.133333	---	41.34	54.00	12.66	100.0	V	0.0	8.4
7431.133333	46.02	---	74.00	27.98	100.0	V	0.0	8.4

6/11/2019 1:58:34 PM

Note: The highest waveform in the figure is FHSS fundamental.

Appendix B.5: Test Results of Radiated Emissions in Restricted Bands

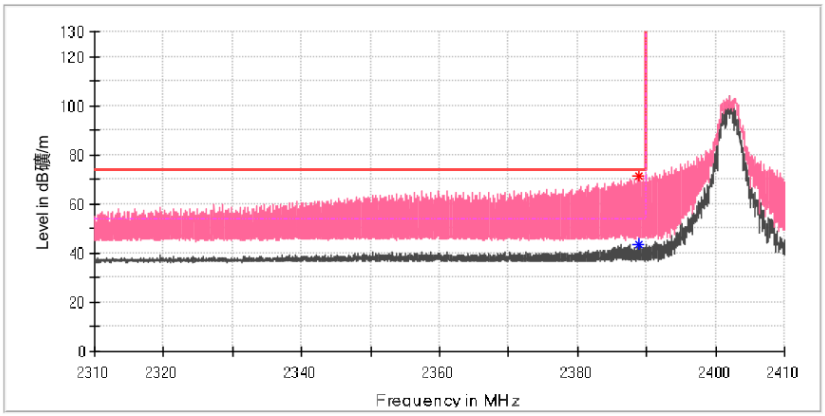
Low channel

Test 1 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX64PU
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

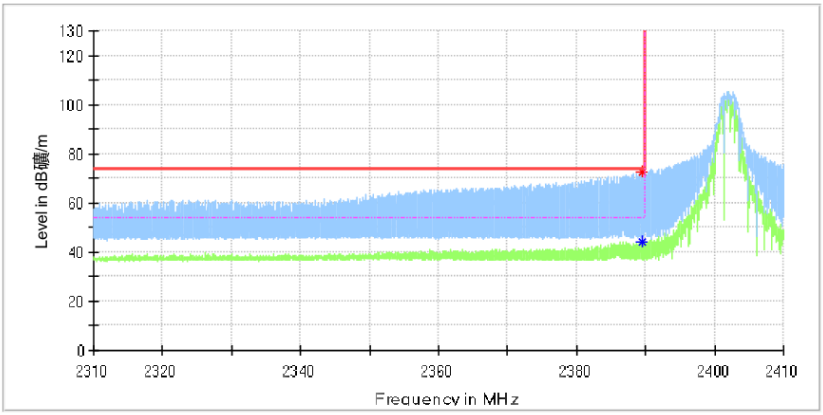
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.852941	---	43.47	54.00	10.53	100.0	V	294.0	7.0
2388.852941	71.30	---	74.00	2.70	100.0	V	294.0	7.0

Test 2 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX64PU
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.500000	---	44.09	54.00	9.91	120.0	H	58.0	7.0
2389.500000	72.73	---	74.00	1.27	120.0	H	58.0	7.0

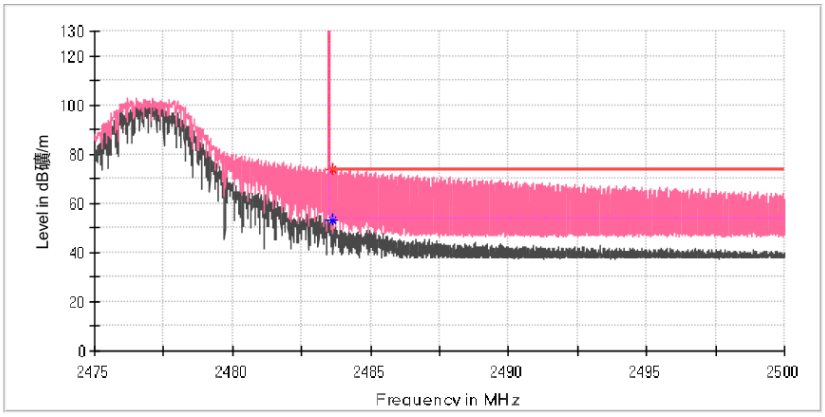
High channel

Test 3 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX64PU
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

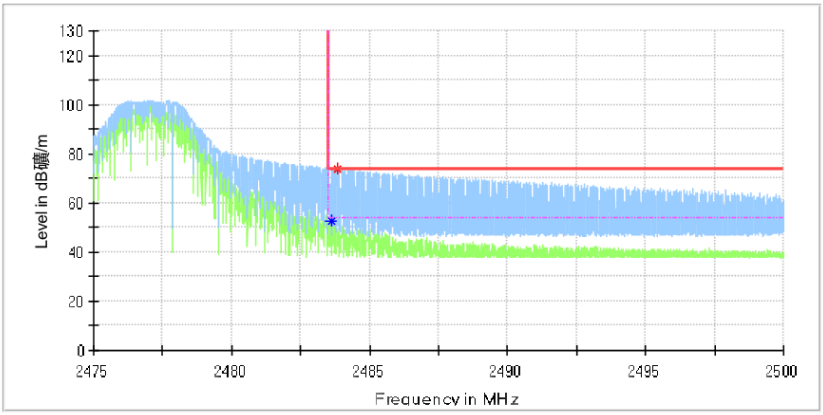
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.613971	73.12	---	74.00	0.88	100.0	V	359.0	7.4
2483.643382	---	52.94	54.00	1.06	100.0	V	356.0	7.4

Test 4 / 4

Test Report

EUT Information

EUT Name:	Baby monitor
Model:	LUX64PU
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:49%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.599265	---	52.62	54.00	1.38	150.0	H	17.0	7.4
2483.823530	73.22	---	74.00	0.78	150.0	H	351.0	7.4

Appendix B.6: Test Results of 20dB Bandwidth

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2402 MHz; 18.000 dBm; 2 MHz; Test Mode)

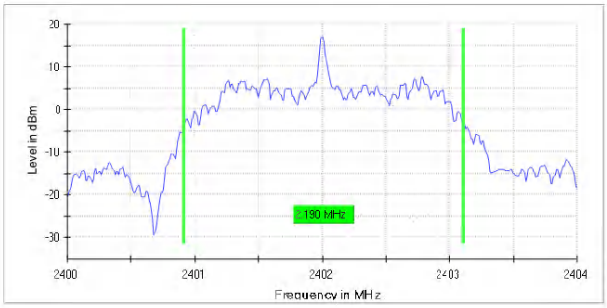
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.190000	---	---	2400.915000	2403.105000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	17.0	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	16 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.02 dB	0.50 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2440 MHz; 18.000 dBm; 2 MHz; Test Mode)

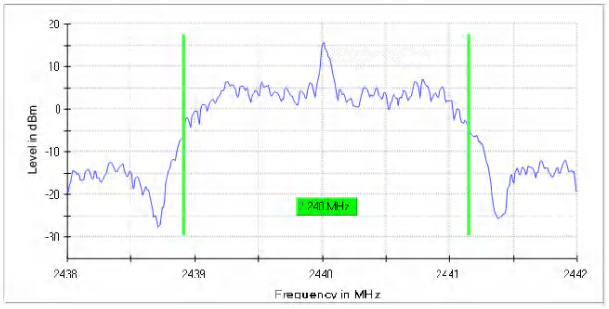
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.240000	---	---	2438.915000	2441.155000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	15.5	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.47 dB	0.50 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2477 MHz; 18.000 dBm; 2 MHz; Test Mode)

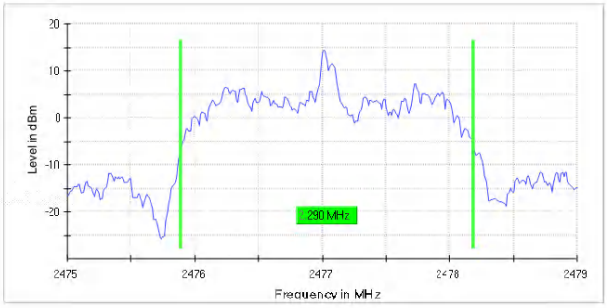
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2477.000000	2.290000	---	---	2475.895000	2478.185000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2477.000000	14.4	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.47900 GHz	2.47900 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.34 dB	0.50 dB

Appendix B.7: Test Results of Carrier Frequency Separation

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2402 MHz; 18.000 dBm; 2 MHz)

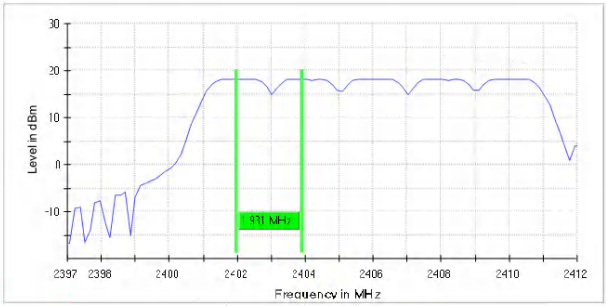
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.930693	1.333333	---	2401.975248	2403.905941

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.41200 GHz	2.41200 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	36 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.05 dB	0.50 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2440 MHz; 18.000 dBm; 2 MHz)

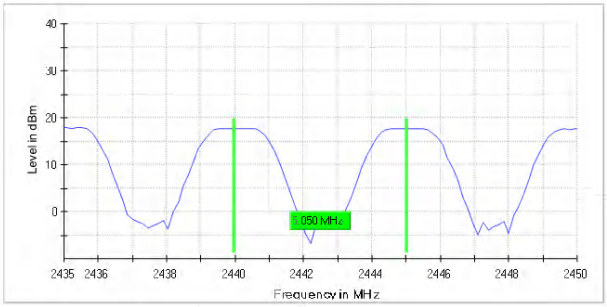
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2440.000000	5.049504	1.333333	---	2439.975248	2445.024752

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43500 GHz	2.43500 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.01 dB	0.50 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2477 MHz; 18.000 dBm; 2 MHz)

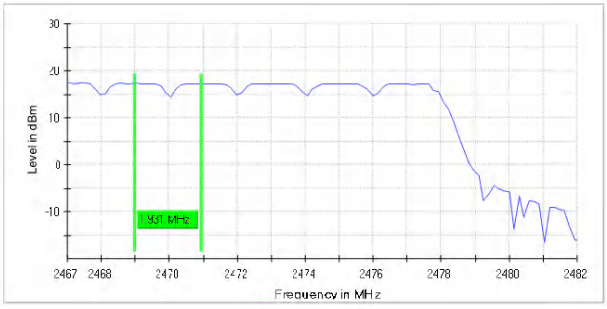
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2477.000000	1.930694	1.333333	---	2469.004950	2470.935644

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2477.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.46700 GHz	2.46700 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	22 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.33 dB	0.50 dB

Appendix B.8: Test Results of Number of Hopping Frequency

All hopping channels

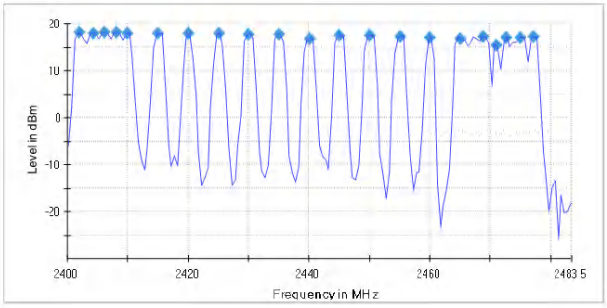
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Hopping Frequencies (frequency independent; 18.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Channels

Channels	Limit Min	Limit Max	Result
22	15	---	PASS



Sequence

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	500.000 kHz	<= 598.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	167	~ 167
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	33 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Appendix B.9: Test Results of Time of Occupancy

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Time of Channel Occupancy (2440 MHz; 18.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2440.000000	PASS	212	16.272	-2.0

Periode

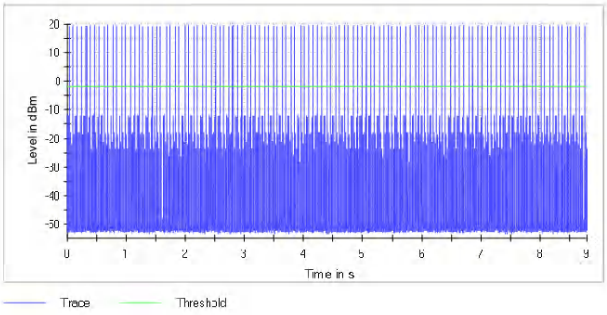
Min (ms)	Max (ms)	Mean (ms)
2.863	101.903	41.075

Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.00	0.14	400.000	0.000	0.076

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.00	0.14	0.076



Time of Channel Occupancy

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44000 GHz	2.44000 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	30001	~ 30001
Sweeptime	8.800 s	8.800 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Appendix B.10: Test Results of Conducted Emission on AC Mains

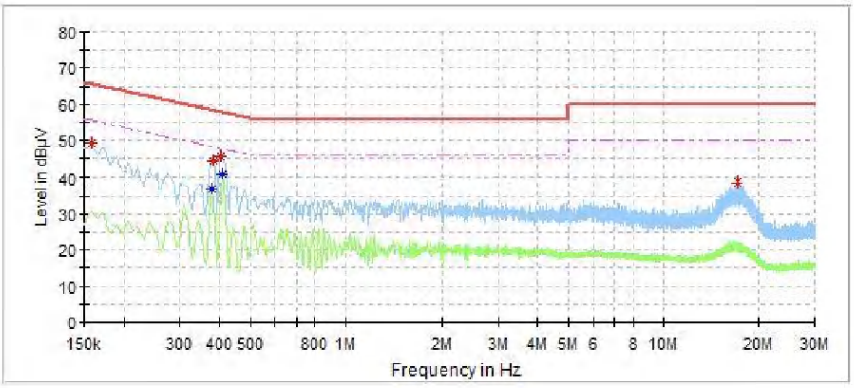
FHSS Connecting mode with battery #1 and adapter #1(Tenpao)

Test 3 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:S005BNU0500100



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	49.27	---	65.57	16.30	---	---	L1	9.6
0.378000	---	37.05	48.32	11.28	---	---	L1	9.7
0.382000	44.20	---	58.24	14.03	---	---	L1	9.7
0.406000	45.65	---	57.73	12.08	---	---	L1	9.7
0.410000	---	40.60	47.65	7.05	---	---	L1	9.7
17.048000	38.37	---	60.00	21.63	---	---	L1	10.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

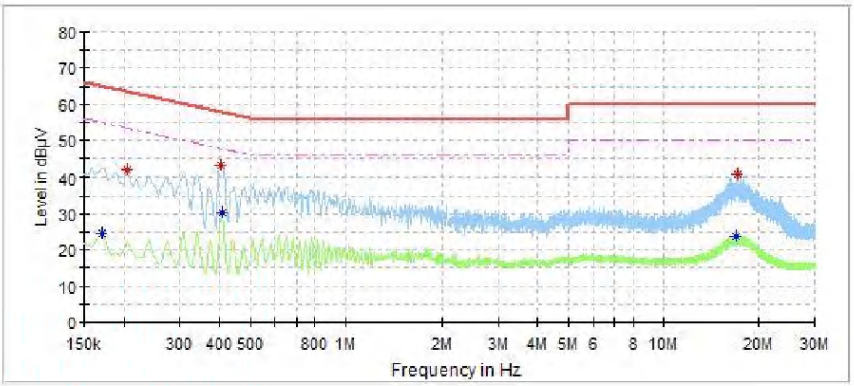
11/4/2019 3:59:00 PM

Test 4 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:S005BNU0500100



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	---	24.50	54.96	30.46	---	---	N	9.6
0.206000	41.76	---	63.37	21.61	---	---	N	9.6
0.406000	43.26	---	57.73	14.47	---	---	N	9.7
0.410000	---	30.20	47.65	17.45	---	---	N	9.7
16.960000	---	23.73	50.00	26.27	---	---	N	10.4
17.180000	40.61	---	60.00	19.39	---	---	N	10.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

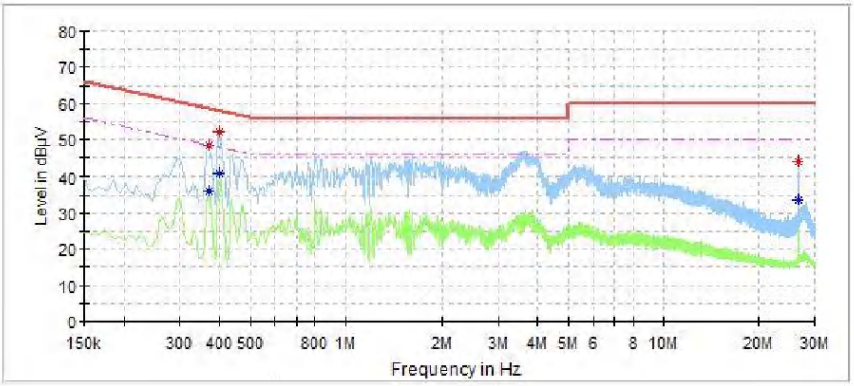
FHSS Connecting mode with battery #1 and adapter #2(YWK)

Test 5 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:YWK-AD050100-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.370000	---	36.22	48.50	12.28	---	---	L1	9.7
0.370000	48.30	---	58.50	10.21	---	---	L1	9.7
0.402000	52.27	---	57.81	5.54	---	---	L1	9.7
0.402000	---	40.62	47.81	7.19	---	---	L1	9.7
26.668000	---	33.79	50.00	16.21	---	---	L1	10.4
26.668000	43.86	---	60.00	16.14	---	---	L1	10.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

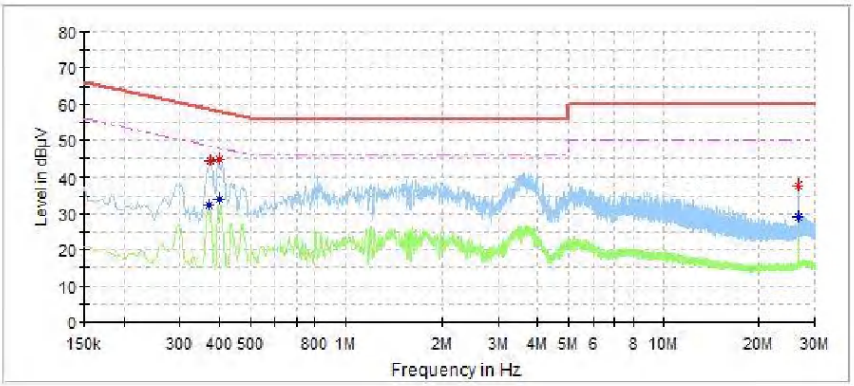
11/4/2019 3:59:00 PM

Test 6 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:YWK-AD050100-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.370000	---	32.33	48.50	16.17	---	---	N	9.7
0.374000	44.32	---	58.41	14.09	---	---	N	9.7
0.402000	44.60	---	57.81	13.21	---	---	N	9.7
0.402000	---	33.99	47.81	13.82	---	---	N	9.7
26.668000	---	29.12	50.00	20.88	---	---	N	10.5
26.668000	37.77	---	60.00	22.23	---	---	N	10.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

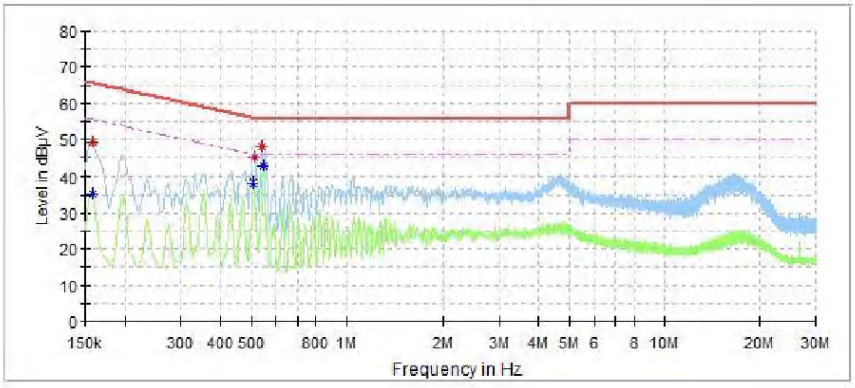
FHSS Connecting mode with battery #1 and adapter #3(BECKY)

Test 1 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:BQ06A-0501000-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	---	35.37	55.57	20.20	---	---	L1	9.6
0.158000	49.11	---	65.57	16.46	---	---	L1	9.6
0.508000	---	38.19	46.00	7.81	---	---	L1	9.7
0.516000	44.98	---	56.00	11.02	---	---	L1	9.7
0.544000	47.80	---	56.00	8.20	---	---	L1	9.7
0.548000	---	42.66	46.00	3.34	---	---	L1	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

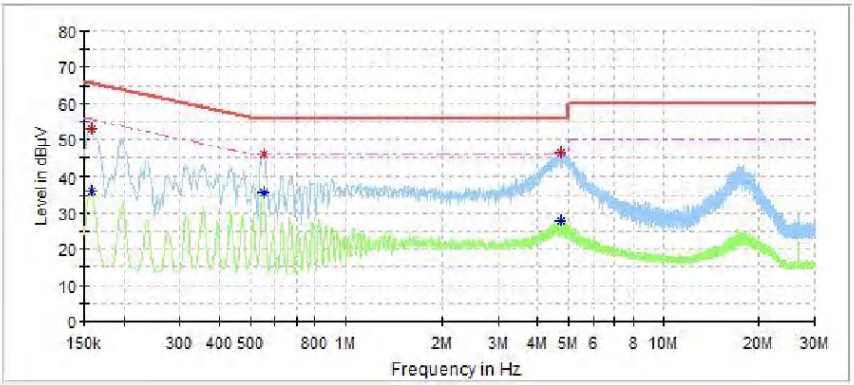
11/4/2019 3:59:00 PM

Test 2 / 6

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Parent Unit)
Model:	LUX65PU
Order No.:	168134662 item 90
Test Mode:	FHSS CONNECTING + CHARGING MODE
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Standard:	FCC Part 15C
Remark:	Adapter model:BQ06A-0501000-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.158000	52.98	---	65.57	12.59	---	---	N	9.6
0.158000	---	36.00	55.57	19.57	---	---	N	9.6
0.552000	---	35.68	46.00	10.32	---	---	N	9.7
0.556000	45.82	---	56.00	10.18	---	---	N	9.7
4.752000	46.25	---	56.00	9.75	---	---	N	9.9
4.760000	---	28.04	46.00	17.96	---	---	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
---	---	---	---	---	---	---		---

11/4/2019 3:59:00 PM

Remark: In this appendix, the EUT model No. LUX65PU is replaced by LUX64PU.