TEST REPORT

Applicant: Binatone Electronics International Ltd.

Address of Applicant: Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

Equipment Under Test (EUT)

Baby Unit (2.8" HD Wi-Fi® Video Baby and Home Monitor; 5" HD Product Name:

Wi-Fi® Video Baby and Home Monitor)

Model Name.: CN35BU, COMFORT45BU, CN75BU, COMFORT85BU

Trade mark: motorola

FCC ID: VLJ-CN35BU

Canada IC: 4522A-CN35BU

HVIN: CN35BU

CFR47 FCC Part 15: Subpart C Section 15.247

CFR47 FCC Part 15: Subpart C Section 15.207

Applicable standards: CFR47 FCC Part 15: Subpart C Section 15.209

RSS-Gen Issue 5, April 2018

RSS-247 Issue 2, February 2017

Date of sample receipt: 20 Nov. 2018

Date of Test: 20 Nov. 2018 to 14 Jun. 2019

Date of report issued: 09 Jul. 2019

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang Laboratory Manager

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Revision History

Rev.	Rev. Issue Date Report NO.		Effect Page	Contents
00	00 09 Jul. 2019 CCISE190703502		ALL	Initial Issue

Tested by: 20 Nov. 2018 - 14 Jun. 2019

Test Engineer

Reviewed by: 09 Jul. 2019

Project Engineer



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1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

KDB 558074 D01 DTS Meas Guidance v05

FCC Part 15, Subpart C RSS-247 Issue 2					
Standard Section	Test Item	Judgment	Remark		
FCC Part 15.207(a) RSS-Gen Clause 8.8	Conducted Emission	PASS			
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a)	20dB Bandwidth	PASS			
RSS-Gen Clause 6.7	99% Bandwidth	PASS			
FCC Part 15.247(a)(1) RSS-247 Clause 5.4(b)	Output Power	PASS			
FCC Part 15.247(d) RSS-247 Clause 3.3	Radiated Spurious Emission	PASS			
FCC Part 15.247(d) RSS-247 Clause 5.5	Conducted Spurious & Band Edge Emission	PASS			
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)	Hopping Channel Separation	PASS			
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(d)	Number of Hopping Frequency	PASS			
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(d)	Dwell Time	PASS			
FCC Part 15.205	Restricted Band Edge Emission	PASS			
FCC Part 15.247(d) & 15.209(a) RSS-247 Clause 5.5	Band Edge Emission	PASS			
FCC Part 15.247(b)(4) & 15.203	Antenna Requirement	PASS			
RSS-Gen Clause 6.11	Frequency Stability	PASS			

NOTE:

- 1) 'N/A' denotes test is not applicable in this test report
- 2) All tests were performed according to the procedures in ANSI C63.10: 2013.



1.1 TEST FACTORY

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Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

The test facility is recognized, certified, or accredited by the following organizations:

FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

1.2 MEASUREMENT UNCERTAINTY

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

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Report No: CCISE190703502



2.1 GENERAL DESCRIPTION OF EUT

Product Name	Baby Unit (2.8" HD Wi-Fi [®] Video Baby and Home Monitor; 5" HD Wi-Fi [®] Video Baby and Home Monitor)				
Trade Name	motorola				
Model Name	CN35BU				
Series Model	COMFORT45BU, CN7	5BU, COMFORT85BU			
Model Difference	All models are fully ider	ntical except model name.			
	The EUT is a Baby Unit(2.8" Video Baby Monitor with Wi-Fi®; 5" Video Baby Monitor with Wi-Fi®) of one of the Video Baby Monitor With Wi-Fi® which supports 2.4GHz FHSS and Wi-Fi 802.11b/g/n wireless technologies. This report for 2.4GHz FHSS operation only.				
	Operation Frequency:	2402 - 2477 MHz			
Product Description	Modulation Type:	GFSK			
	Bit Rate of Transmitter:	1 Mbps			
	Number Of Channel:	22 channels			
	Antenna Designation:	Please see Note 4			
	Antenna Gain (dBi):	0dBi			
Channel List	Please refer to the Note	2.			
Adapter 1#	Model: S005BNU05001 Input: AC 100-240V, 0. Output: DC 5.0V, 1000	15mA, 50/60Hz			
Adapter 2#	Model: CS6F050100FU Input: AC 100-240V, 0 Output: DC 5.0V, 1000	JF (Csec) 20mA, 50/60Hz			
Battery	N/A				
Hardware version	N/A				
Software version	N/A				
Radio Hardware version	on N/A				
Radio Software version	N/A				
Test Software	SecureCRT				
RF Power Setting TEST Software (power class)	1				
Connecting I/O Port(s)	Please refer to the Use	r's Manual			
Thousand to the cool of Maria					



Note:

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

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

3 Note:

- 1) In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test;
- 2) Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2477 MHz

4	Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
	1	N/A	CN35BU	Integral Antenna	N/A	0	2.4G Antenna	



Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX GFSK CH01	1
Mode 2	TX GFSK CH11	1
Mode 3	TX GFSK CH22	1
Mode 4	Transmitting mode	1

Note:

- 1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- 2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report
- 3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

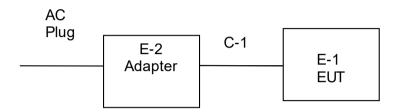


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	Tenpao	S005BNU0500100	N/A	Accessories
E-2	Adapter	Csec	CS6F050100FUF	N/A	Equipment
E-3	Personal computer	HP	500-320cx	4CV428DQYN	Auxiliary Equipment

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Adapter DC Cable	NO	200cm	N/A

Note

- 1) The support equipment was authorized by Declaration of Confirmation.
- 2) For detachable type I/O cable should be specified the length in cm in Length a column.
- 3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



Radio Spectrum Testing					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
USB RF power sensor	DARE	RPR3006W	15l00041SNO09	05.03.2020	
Spectrum analyzer	Agilent	N9020A	MY51110123	01.03.2020	
Spurious Emission	on				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
Loop Antenna	Schwarzbeck	FMZB1519B	00044	14.03.2020	
Bilog Antenna	Schwarzbeck	VULB9163	497	14.03.2020	
Horn Antenna	Schwarzbeck	BBHA 9120D	1805	21.06.2020	
SHF-EHF Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	20.11.2019	
Pre-amplifier	HP	8447D	2944A09358	05.03.2020	
Pre-amplifier	CD	PAP-1G18	11804	05.03.2020	
EMI Test Receiver	R&S	ESRP7	101070	05.03.2020	
Spectrum analyzer	R&S	FSP30	101454	05.03.2020	
Spectrum analyzer	R&S	FSP40	100363	05.03.2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	05.03.2020	
Cable	MICRO-COAX	MFR64639	K10742-5	05.03.2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	05.03.2020	
Conducted Emiss	sion on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
EMI Test Receiver	R&S	ESCI	101189	05.03.2020	
Pulse Limiter	Schwarzbeck	OSRAM 2306	9731	05.03.2020	
LISN	CHASE	MN2050D	1447	17.03.2020	
LISN	R&S	ESH3-Z5	8438621/010	20.07.2019	



3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a), 107(a), RSS-Gen Table3 limit in the table below has to be followed. This item was performed according to the procedures in ANSI C63.10: 2013.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)			
	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

- 1) The tighter limit applies at the band edges.
- 2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

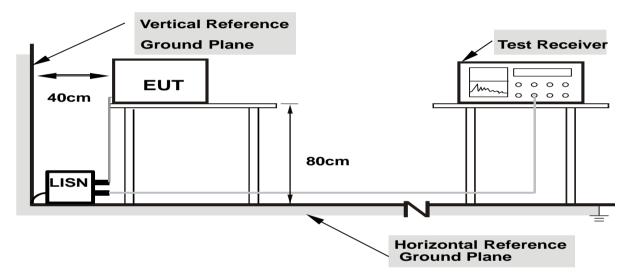
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- Report No: CCISE190703502
- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



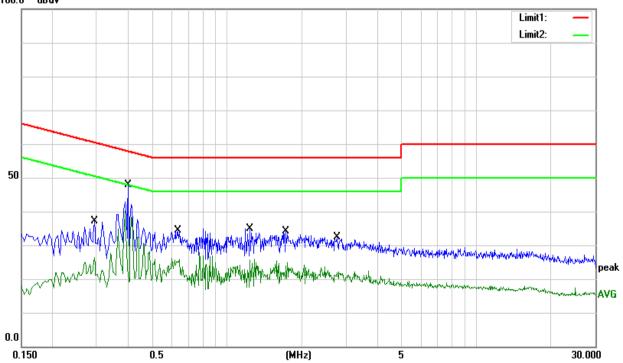
3.1.5 TEST RESULT

Temperature:	22 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4	Test Date:	2019-06-14
Note:	Adapter(Tenpao)		

Frequency	Reading	Correct	Result	Limit	Margin	Damark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.2940	16.32	20.69	37.01	60.41	-23.40	QP
0.2940	5.68	20.69	26.37	50.41	-24.04	AVG
0.4020	27.30	20.49	47.79	57.81	-10.02	QP
0.4020	19.57	20.49	40.06	47.81	-7.75	AVG
0.6340	14.08	20.33	34.41	56.00	-21.59	QP
0.6340	7.49	20.33	27.82	46.00	-18.18	AVG
1.2380	14.83	20.14	34.97	56.00	-21.03	QP
1.2380	5.70	20.14	25.84	46.00	-20.16	AVG
1.7260	13.94	20.09	34.03	56.00	-21.97	QP
1.7260	4.74	20.09	24.83	46.00	-21.17	AVG
2.7740	12.30	20.00	32.30	56.00	-23.70	QP
2.7740	2.32	20.00	22.32	46.00	-23.68	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)—Limit 100.0 dBuV



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Project No.: CCISE1907035

Report No: CCISE190703502

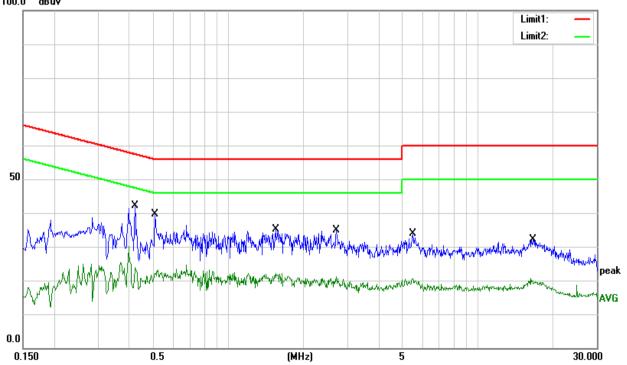


Temperature:	22 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4	Test Date:	2019-06-14
Note:	Adapter(Tenpao)		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4220	21.75	20.49	42.24	57.41	-15.17	QP
0.4220	9.61	20.49	30.10	47.41	-17.31	AVG
0.5100	19.16	20.47	39.63	56.00	-16.37	QP
0.5100	4.09	20.47	24.56	46.00	-21.44	AVG
1.5500	15.10	20.11	35.21	56.00	-20.79	QP
1.5500	2.12	20.11	22.23	46.00	-23.77	AVG
2.7180	14.87	20.00	34.87	56.00	-21.13	QP
2.7180	1.15	20.00	21.15	46.00	-24.85	AVG
5.4780	14.01	19.92	33.93	60.00	-26.07	QP
5.4780	0.69	19.92	20.61	50.00	-29.39	AVG
16.6980	12.17	19.97	32.14	60.00	-27.86	QP
16.6980	0.55	19.97	20.52	50.00	-29.48	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)—Limit 100.0 dBuV





RADIATED SPURIOUS EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) and RSS-247 Issue 2 limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK AVERAG		
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	1 MHz /3MHz

For Band edge

9 -	
Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2422 MHz Upper Band Edge: 2452 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz

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Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a) The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b) The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

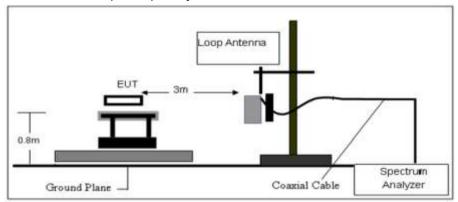
Note:

Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

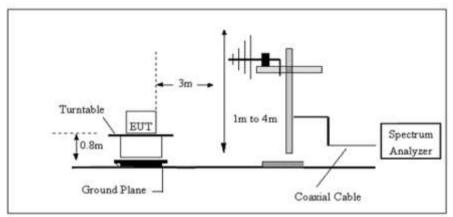




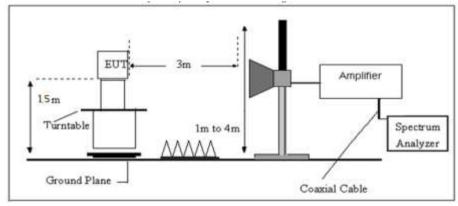
a) Radiated Emission Test-Up Frequency Below 30MHz



b) Radiated Emission Test-Up Frequency 30MHz~1GHz



c) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.2.5 FIELD STRENGTH CALCULATION

Report No: CCISE190703502

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	20.5 ℃	Relative Humidtity:	49%
Test Voltage:	AC 120V/60Hz	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

Note:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

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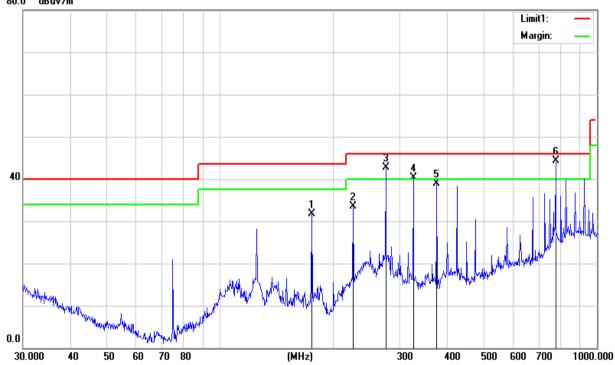
(30MHz - 1000MHz)

Temperature:	20.5 ℃	Relative Humidtity:	49%
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)	Test Date:	2019-06-14
Note:	Adapter(Tenpao)		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
175.0363	51.12	-19.38	31.74	43.50	-11.76	QP
225.3080	52.34	-18.77	33.57	46.00	-12.43	QP
275.1570	58.35	-15.65	42.70	46.00	-3.30	QP
325.5957	54.41	-14.12	40.29	46.00	-5.71	QP
375.9384	51.66	-12.73	38.93	46.00	-7.07	QP
776.8777	47.57	-3.18	44.39	46.00	-1.61	QP

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit 80.0 dBuV/m



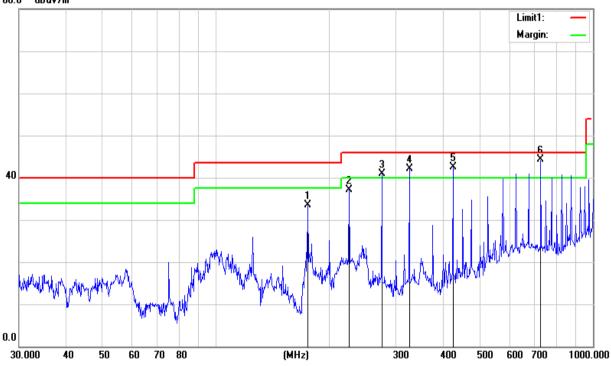


Temperature:	20.5 ℃	Relative Humidtity:	49%
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)	Test Date:	2019-06-14
Note:	Adapter(Tenpao)		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
175.0363	52.98	-19.38	33.60	43.50	-9.90	QP
225.3080	55.97	-18.77	37.20	46.00	-8.80	QP
275.1570	56.60	-15.65	40.95	46.00	-5.05	QP
325.5957	56.20	-14.12	42.08	46.00	-3.92	QP
425.0280	53.48	-10.90	42.58	46.00	-3.42	QP
726.8052	48.61	-4.26	44.35	46.00	-1.65	QP

Remark:.

1. Margin = Result (Result =Reading + Factor)-Limit 80.0 dBuV/m

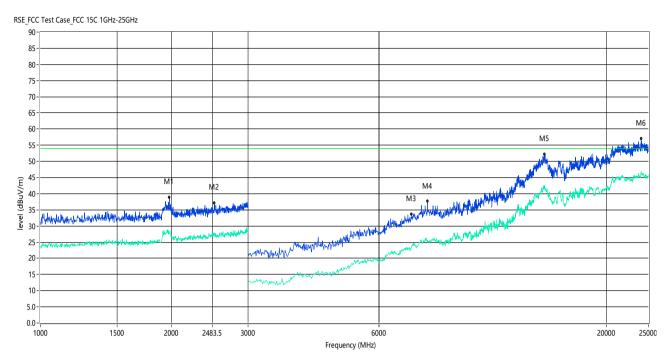




(1000MHz-25GHz) Restricted band and Spurious emission Requirements

I ow

vertical

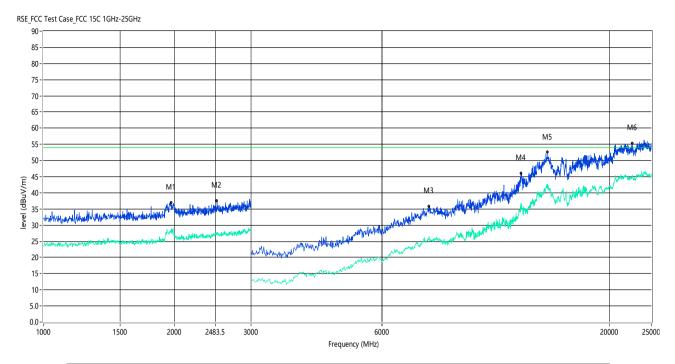


No.	Frequency	Results	Factor (dB)	Limit	OverLimit	Detector	ANT	Verdict
NO.	(MHz)	(dBuV/m)	racioi (db)	(dBuV/m)	(dB)	Detector	AINT	verdict
1**	1980.000	27.81	-0.46	54.0	-26.19	AV	٧	Pass
1	1980.000	38.81	-0.46	74.0	-35.19	Peak	٧	Pass
2**	2508.000	27.11	-0.36	54.0	-26.89	AV	V	Pass
2	2508.000	37.02	-0.36	74.0	-36.98	Peak	V	Pass
3**	7120.000	23.28	8.45	54.0	-30.72	AV	V	Pass
3	7120.000	33.58	8.45	74.0	-40.42	Peak	V	Pass
4**	7760.000	25.61	10.10	54.0	-28.39	AV	V	Pass
4	7760.000	37.58	10.10	74.0	-36.42	Peak	V	Pass
5**	14416.000	42.45	25.52	54.0	-11.55	AV	V	Pass
5	14416.000	52.08	25.52	74.0	-21.92	Peak	V	Pass
6**	24028.000	46.86	23.30	54.0	-7.14	AV	V	Pass
6	24028.000	56.91	23.30	74.0	-17.09	Peak	V	Pass





Horizontal

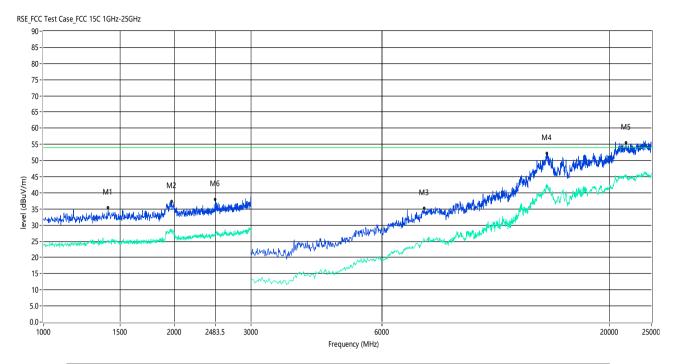


NI-	Frequency	Results	Factor (ID)	Limit	OverLimit	Datastas	ANIT	\
No.	(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	ANT	Verdict
1**	1966.000	27.85	-0.57	54.0	-26.15	AV	Н	Pass
1	1966.000	36.82	-0.57	74.0	-37.18	Peak	Н	Pass
2**	2506.000	27.30	-0.42	54.0	-26.70	AV	Н	Pass
2	2506.000	37.44	-0.42	74.0	-36.56	Peak	Н	Pass
3**	7690.000	25.70	10.40	54.0	-28.30	AV	Н	Pass
3	7690.000	35.75	10.40	74.0	-38.25	Peak	Н	Pass
4**	12519.999	36.81	19.89	54.0	-17.19	AV	Н	Pass
4	12519.999	46.04	19.89	74.0	-27.96	Peak	Н	Pass
5**	14428.000	42.35	25.10	54.0	-11.65	AV	Н	Pass
5	14428.000	52.44	25.10	74.0	-21.56	Peak	Н	Pass
6**	22564.000	44.97	23.74	54.0	-9.03	AV	Н	Pass
6	22564.000	55.19	23.74	74.0	-18.81	Peak	Н	Pass



Middle

vertical

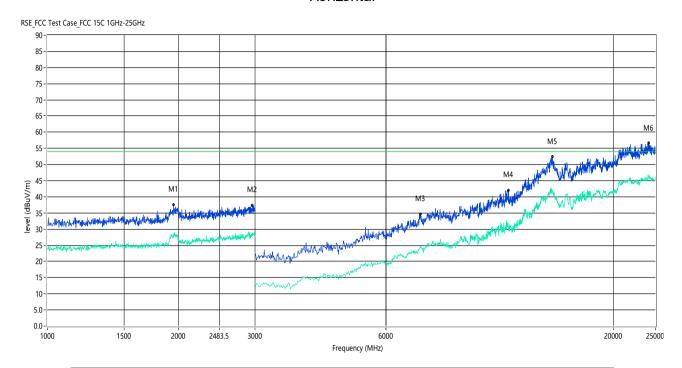


NI-	Frequency	Results	Footon(dD)	Limit	OverLimit	Datastas	ANIT	Manufiet
No.	(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	ANT	Verdict
1**	1408.000	25.20	-4.39	54.0	-28.80	AV	V	Pass
1	1408.000	35.30	-4.39	74.0	-38.70	Peak	V	Pass
2**	1970.000	28.70	-0.54	54.0	-25.30	AV	V	Pass
2	1970.000	37.23	-0.54	74.0	-36.77	Peak	V	Pass
3**	7520.000	25.19	10.71	54.0	-28.81	AV	V	Pass
3	7520.000	35.09	10.71	74.0	-38.91	Peak	V	Pass
4**	14368.000	42.40	24.92	54.0	-11.60	AV	V	Pass
4	14368.000	52.09	24.92	74.0	-21.91	Peak	V	Pass
5**	21831.999	44.94	23.93	54.0	-9.06	AV	V	Pass
5	21831.999	55.40	23.93	74.0	-18.60	Peak	V	Pass
6**	2486.000	27.28	-0.55	54.0	-26.72	AV	V	Pass
6	2486.000	37.80	-0.55	74.0	-36.20	Peak	V	Pass





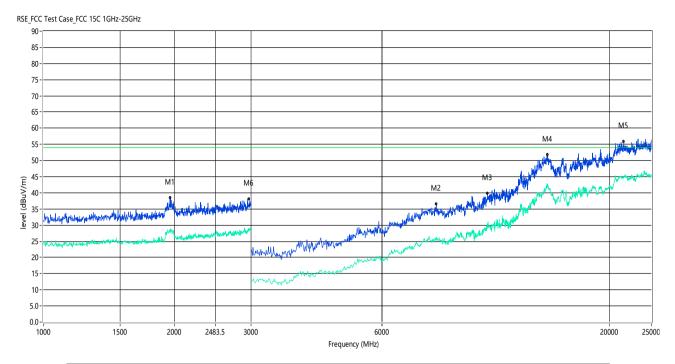
Horizontal



NI	Frequency	Results	Footon(dD)	Limit	OverLimit	Datastas	ANIT	\
No.	(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	ANT	Verdict
1**	1950.000	27.67	-0.73	54.0	-26.33	AV	Н	Pass
1	1950.000	37.50	-0.73	74.0	-36.50	Peak	Н	Pass
2**	2962.000	28.02	1.64	54.0	-25.98	AV	Н	Pass
2	2962.000	37.29	1.64	74.0	-36.71	Peak	Н	Pass
3**	7200.000	24.66	9.19	54.0	-29.34	AV	Н	Pass
3	7200.000	34.58	9.19	74.0	-39.42	Peak	Н	Pass
4**	11470.000	30.96	14.83	54.0	-23.04	AV	Н	Pass
4	11470.000	41.96	14.83	74.0	-32.04	Peak	Н	Pass
5**	14488.001	41.33	23.81	54.0	-12.67	AV	Н	Pass
5	14488.001	52.25	23.81	74.0	-21.75	Peak	Н	Pass
6**	24135.999	45.86	23.26	54.0	-8.14	AV	Н	Pass
6	24135.999	56.51	23.26	74.0	-17.49	Peak	Н	Pass



High vertical

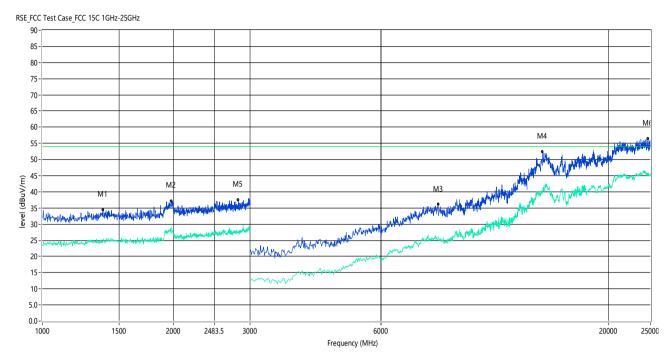


NI-	Frequency	Results	Factor (ID)	Limit	OverLimit	Datastas	ANIT	Manufiet
No.	(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	ANT	Verdict
1**	1958.000	28.83	-0.64	54.0	-25.17	AV	V	Pass
1	1958.000	38.47	-0.64	74.0	-35.53	Peak	V	Pass
2**	8000.000	26.33	10.93	54.0	-27.67	AV	V	Pass
2	8000.000	36.47	10.93	74.0	-37.53	Peak	V	Pass
3**	10480.000	30.47	14.66	54.0	-23.53	AV	V	Pass
3	10480.000	39.75	14.66	74.0	-34.25	Peak	٧	Pass
4**	14416.000	42.70	25.52	54.0	-11.30	AV	V	Pass
4	14416.000	51.78	25.52	74.0	-22.22	Peak	V	Pass
5**	21579.999	44.98	23.99	54.0	-9.02	AV	V	Pass
5	21579.999	55.78	23.99	74.0	-18.22	Peak	V	Pass
6**	2970.000	28.23	1.80	54.0	-25.77	AV	V	Pass
6	2970.000	38.05	1.80	74.0	-35.95	Peak	V	Pass





Horizontal



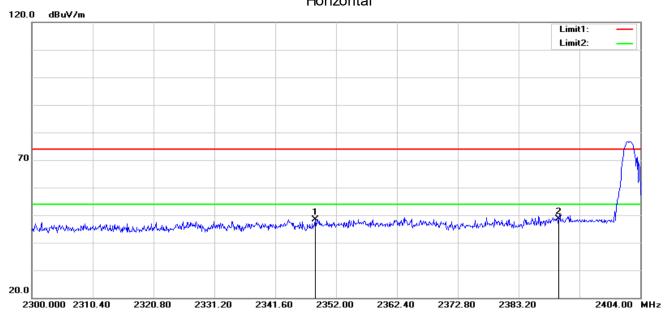
NI-	Frequency	Results	Factor (ID)	Limit	OverLimit	Datastas	ANIT	\
No.	(MHz)	(dBuV/m)	Factor (dB)	(dBuV/m)	(dB)	Detector	ANT	Verdict
1**	1378.000	25.30	-4.31	54.0	-28.70	AV	Н	Pass
1	1378.000	34.40	-4.31	74.0	-39.60	Peak	Н	Pass
2**	1980.000	27.75	-0.46	54.0	-26.25	AV	Н	Pass
2	1980.000	37.07	-0.46	74.0	-36.93	Peak	Н	Pass
3**	8120.000	26.10	10.50	54.0	-27.90	AV	Н	Pass
3	8120.000	36.03	10.50	74.0	-37.97	Peak	Н	Pass
4**	14116.000	40.36	23.39	54.0	-13.64	AV	Н	Pass
4	14116.000	52.33	23.39	74.0	-21.67	Peak	Н	Pass
5**	2820.000	27.43	1.03	54.0	-26.57	AV	Н	Pass
5	2820.000	37.42	1.03	74.0	-36.58	Peak	Н	Pass
6**	24664.001	45.14	23.09	54.0	-8.86	AV	Н	Pass
6	24664.001	56.34	23.09	74.0	-17.66	Peak	Н	Pass



3.2.7 TEST RESULTS (RESTRICTED BAND)

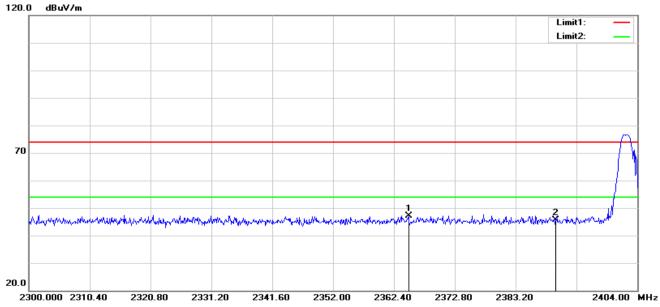
Low Horizontal

Report No: CCISE190703502



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2348.464	59.45	-11.03	48.42	74.00	-25.58	peak
2	2390.000	59.31	-10.75	48.56	74.00	-25.44	peak

Vertical

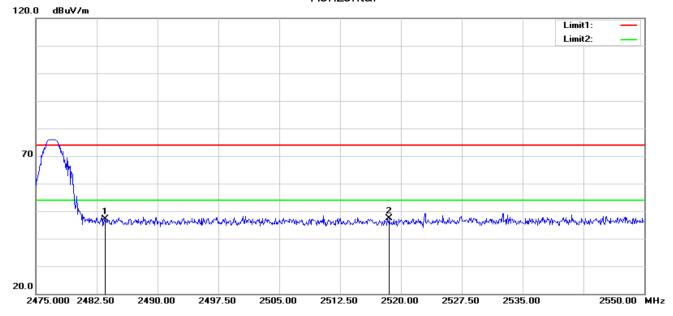


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2364.896	58.02	-10.92	47.10	74.00	-26.90	peak
2	2390.000	56.31	-10.75	45.56	74.00	-28.44	peak

High

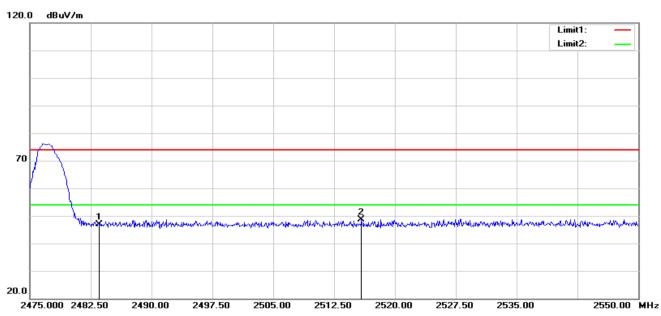


Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	57.46	-10.29	47.17	74.00	-26.83	peak
2	2518.575	57.50	-10.16	47.34	74.00	-26.66	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	57.09	-10.29	46.80	74.00	-27.20	peak
2	2515.875	58.82	-10.17	48.65	74.00	-25.35	peak



4 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Report No: CCISE190703502

4.1 APPLIED PROCEDURES / LIMIT

According to FCC Part 15.247(d) and RSS-247 Clause 5.5, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

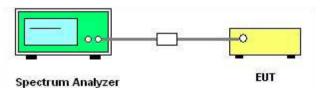
For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2422 MHz		
Start/Stop Frequency	Upper Band Edge: 2452 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

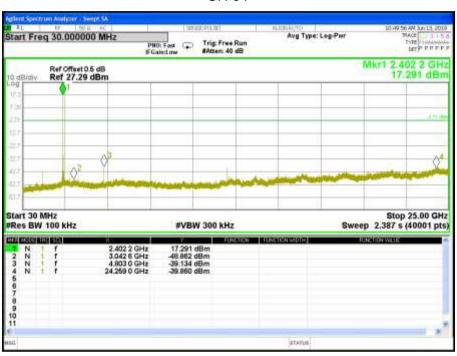
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



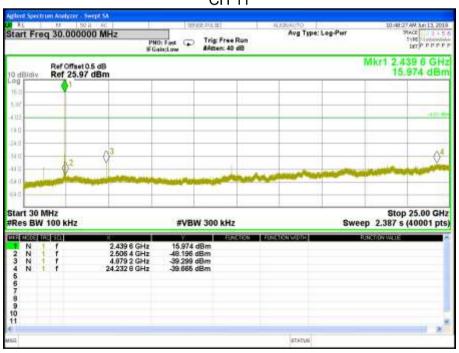


Temperature : 25 °C Relative Humidity : 60% Test Voltage : AC 120V/60Hz Test Mode : TX Mode /CH01, CH11, CH22

CH 01



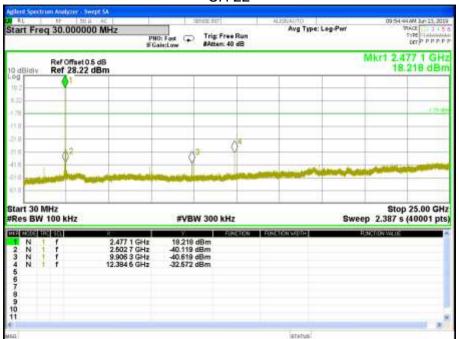
CH 11







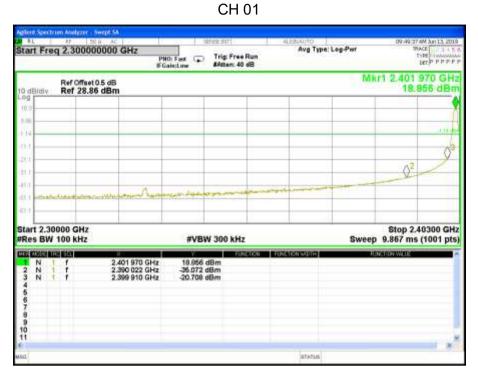








01



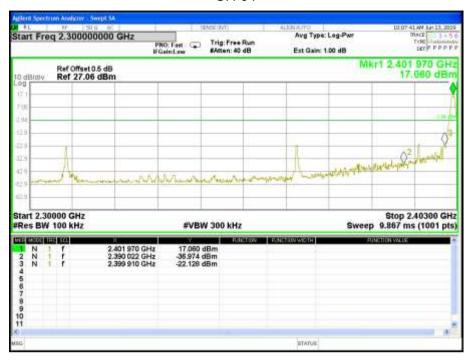
CH 22







CH 01



CH 22





5 NUMBER OF HOPPING CHANNEL

Report No: CCISE190703502

5.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2				
Section Test Item Limit Frequency Range (MHz)				
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(d)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	1MHz
VB	1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

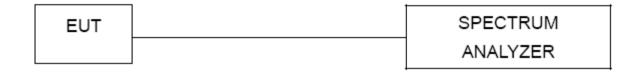
5.2 TEST PROCEDURE

- 1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- 2) Spectrum Setting: RBW= 1MHz, VBW=1MHz, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366

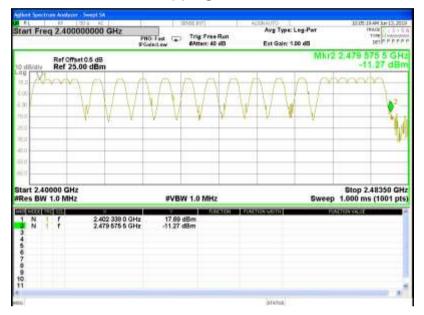


Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	Hopping mode

Number of Hopping Channel

22

Hopping channel





6 AVERAGE TIME OF OCCUPANCY

Report No: CCISE190703502

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2					
Section Test Item Limit Frequency Range (MHz)					
FCC Part 15.247(a)(1) Average Time of RSS-247 Clause 5.1(d) Occupancy 0.4sec 2400-2483.5					

6.2 TEST PROCEDURE

- 1) The transmitter output (antenna port) was connected to the spectrum analyzer
- 2) Set RBW =1MHz/VBW =3MHz.
- 3) Use a video trigger with the trigger level set to enable triggering only on full pulses.
- 4) Sweep Time is more than once pulse time.
- 5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- 6) Measure the maximum time duration of one single pulse.
- 7) Measure the maximum burst number of one hopping period.
- 8) A Period Time = 22*0.4=8.8 S

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

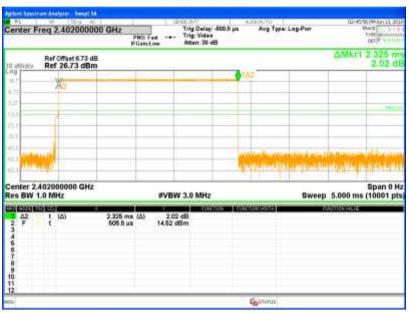


Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	Hopping mode

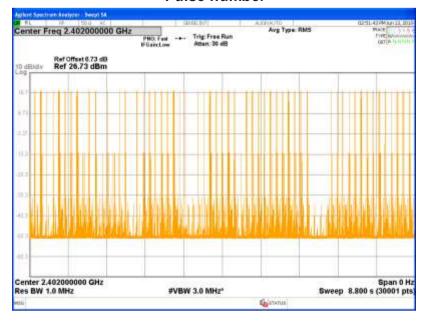
Frequency (MHz)	Pulse Duration(ms)	Pulse number	Dwell Time(s)	Limits(s)
2402MHz	2.325	91	0.212	0.4
2477MHz	2.323	127	0.295	0.4

CH01

Pulse Duration



Pulse number

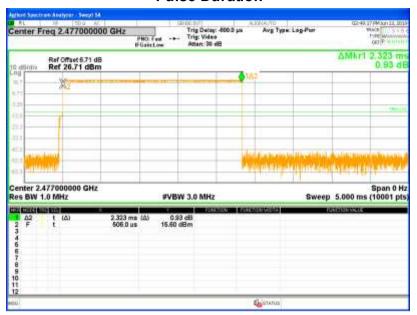




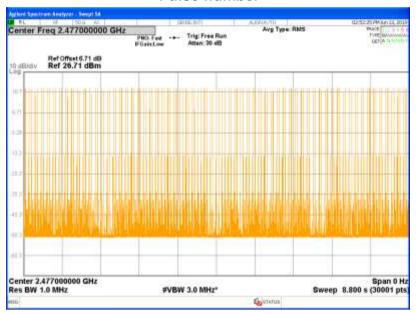


CH22

Pulse Duration



Pulse number





HOPPING CHANNEL SEPARATION MEASUREMEN

Report No: CCISE190703502

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2) The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- 3) The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Test Mode:	Hopping mode

Test Mode	Frequency	Ch. Separation (MHz)	Limit	Result
	2402 MHz	2.000	0.926	Complies
TX	2440 MHz	5.000	0.927	Complies
	2477 MHz	2.066	0.929	Complies

Ch. Separation Limits: > two-thirds 20dB bandwidth

CH01







CH11



CH22





8.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2 & RSS-Gen Issue 5						
Section Test Item Limit Frequency Range (MHz)						
FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a) Bandwidth (20dB Bandwidth) 2400-2483.5 PASS						
RSS-Gen Clause 6.7	99% Bandwidth	-	2400-2483.5	PASS		

8.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 1% - 5% OBW, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	I IEST MODE.	TX b Mode /CH01, CH11, CH22

Remark: PEAK DETECTOR IS USED

Test Mode	Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit of 20dB Bandwidth (MHz)	Result
	2402.00	1.389	1.4181	N/A	PASS
TX	2440.00	1.391	1.4328	N/A	PASS
	2477.00	1.394	1.4285	N/A	PASS

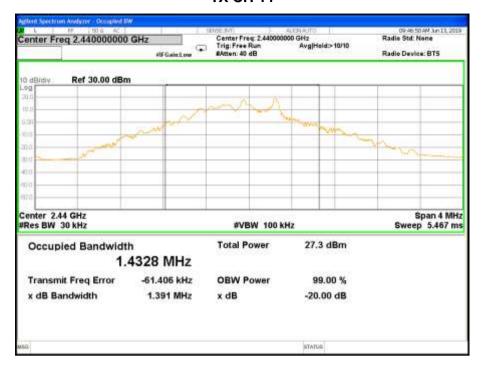
TX CH 01







TX CH 11



TX CH 22





9 PEAK OUTPUT POWER TEST

Report No: CCISE190703502

9.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
		RSS-247 Issue 2		
Section Test Item Limit Frequency Range (MHz) Result				
FCC Part 15.247(a)(1) RSS-247 Clause 5.4(b)	Output Power	1 W or 0.125W if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS

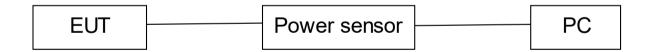
9.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



Temperature :	25 ℃	Relative Humidity:	60%
Test Voltage :	AC 120V/60Hz		

Test	Frequency	Conducted Output Power Limit		Conducted Output Power		Limit
Channel	(MHz)	Peak(dBm)	AVG(dBm)	(dBm)		
CH01	2402.00	18.93	14.95	20.97		
CH11	2440.00	18.21	15.62	20.97		
CH22	2477.00	19.30	15.36	20.97		

Note:

- 1) The cable loss and antenna gain are taken into account in results.
- 2) Antenna gain(G): 0 dBi
- 3) The max e.i.r.p = conducted power + antenna gain = 19.30 dBm



10.1 STANDARD REQUIREMENT

15.203 and RSS-Gen Issue 5 requirement: For intentional device, according to 15.203 and RSS-Gen Issue 5: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is Integral Antenna. It comply with the standard requirement.

Please refer to report CCISE190703501 for details.

******END OF THE REPORT****