FCC Test Report

Report No.: AGC03203141101FE03

FCC ID : YH5-8DTB39

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Tablet PC

BRAND NAME : HIPSTREET

MODEL NAME : 8DTB39

CLIENT: Kobian Canada Inc.,

DATE OF ISSUE : Nov.24, 2014

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov.24, 2014	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant Kobian Canada Inc.,			
Address	560 Denison Street, Unit#5, Markham, Ontario, L3R2M8, Canada		
Manufacturer	Kobian Canada Inc.,		
Address	560 Denison Street, Unit 5, Markham, Ontario, L3R2M8, Canada		
Product Designation	Tablet PC		
Brand Name	HIPSTREET		
Test Model	8DTB39		
Date of test	Nov.18, 2014 to Nov.22, 2014		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF (2013-03-01)		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By

Max Zhang Nov.24, 2014

Checked By

Kidd Yang Nov.24, 2014

Authorized By

Solger Zhang Nov.24, 2014

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Tablet PC" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

	<u> </u>
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	1.48dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, π /4-DQPSK, 8DPSK
Number of channels	79
Hardware Version	V1.1
Software Version	N/A
Antenna Designation	Integral Antenna
Antenna Gain	0dBi
Power Supply	DC3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402MHZ	
	1	2403MHZ	
	:	·	
	38	2440 MHZ	
2402~2480MHZ	39	2441 MHZ	
	40	2442 MHZ	
	:	:	
	77	2479 MHZ	
	78	2480 MHZ	

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits), 4LSB's (4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: YH5-8DTB39** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

Test has been referenced to the DA 00-705

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

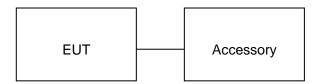
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Tablet PC	HIPSTREET	8DTB39	EUT
2	Battery	N/A	N/A	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Manufacturer Model		Cal. Due
Power Probe	R&S	URV5-Z2	07/30/2014	07/29/2015
RF attenuator	WEINSCHEL CORP	58-30-33	07/25/2014	07/24/2015
Spectrum Analyzer	Agilent	E4440A	07/16/2014	07/15/2015
EXA Signal Analyzer	Agilent	N9010A	10/24/2014	10/23/2015
Amplifier	EM	BBV 9718	07/30/2014	07/29/2015
HORN ANTENNA	Schwarzbeck	3117	08/17/2014	08/16/2015
HORN ANTENNA	A.H. SYSTEMS INC.	SAS-574	07/16/2014	07/15/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	07/25/2014	07/24/2015
Bilogical Antenna	EMCO	3142C	08/17/2014	08/16/2015
LISN	R&S	ESH3-Z5	09/05/2014	09/04/2015
Loop Antenna	LAPLACE	RF300	07/30/2014	07/29/2015
Isolation Transformer	LETEAC	LTBK	07/16/2014	07/15/2015
RF CABLE	SUIRONG	9KHZ-30MHZ	07/15/2014	07/14/2015
RF CABLE	SUIRONG	30MHZ-18GHZ	07/15/2014	07/14/2015
Conduction Cable	Sat	CE1	07/15/2014	07/14/2015

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 4. Record the maximum power from the Spectrum Analyzer.

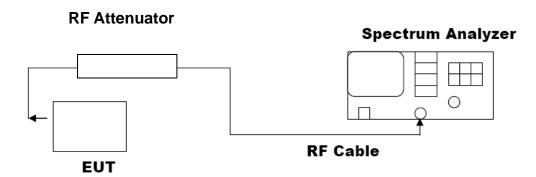
For average power test:

- 1. Connect EUT RF output port to power probe through an RF attenuator.
- 2. Connect the power probe to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.
- 5. The maximum peak power shall be less 125mW (21dBm).

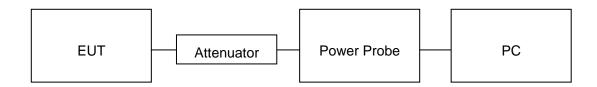
Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Pass or Fail						
2.402	-0.56	1.37	21	Pass			
2.441	-0.45	1.48	21	Pass			
2.480	-0.68	1.27	21	Pass			

CH₀



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PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION								
Frequency (GHz) Average Power (dBm) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail								
2.402	-1.3	0.52	21	Pass				
2.441	-1.17	0.74	21	Pass				
2.480	-1.45	0.51	21	Pass				

CH₀



CH39



CH78



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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION							
Frequency Average Power (GHz) Average Power (dBm) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail							
2.402	-1.41	0.52	21	Pass			
2.441	-0.87	1.03	21	Pass			
2.480	-1.14	0.80	21	Pass			



CH39



CH78



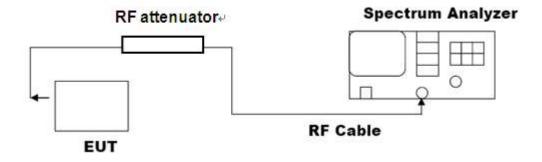
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

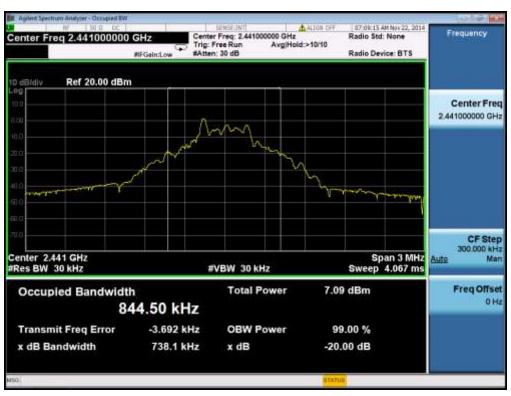
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL							
Applicable Limite	Measurement Result						
Applicable Limits	Test Da	Criteria					
	Low Channel	0.742	PASS				
N/A	Middle Channel	0.738	PASS				
	High Channel	0.742	PASS				

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESUL							
Applicable Limite	Measurement Result						
Applicable Limits	Test Da	Criteria					
	Low Channel	1.170	PASS				
N/A	Middle Channel	1.170	PASS				
	High Channel	1.168	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESUL							
A mulicable Limite	Measurement Result						
Applicable Limits	Test Da	Criteria					
	Low Channel	1.112	PASS				
N/A	Middle Channel	1.108	PASS				
	High Channel	1.105	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.

 RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

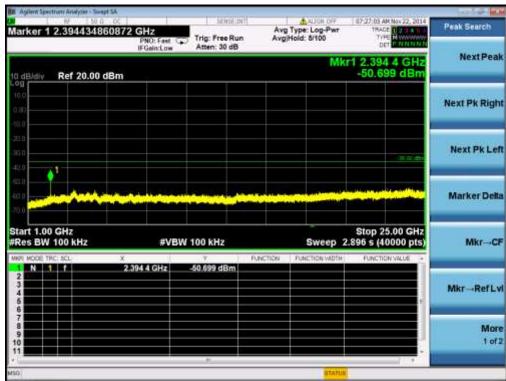
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT							
Angliachla Limita	Measurement Result						
Applicable Limits	Test Data	Criteria					
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit						
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS					
intentional radiator is operating, the radio frequency	Channel						
power that is produce by the intentional radiator							
shall be at least 20 dB below that in 100KHz							
bandwidth within the band that contains the highest							
level of the desired power.	At least -20dBc than the limit	DAGG					
n addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS					
restricted bands, as defined in §15.205(a), must also							
comply with the radiated emission limits specified							
in§15.209(a))							

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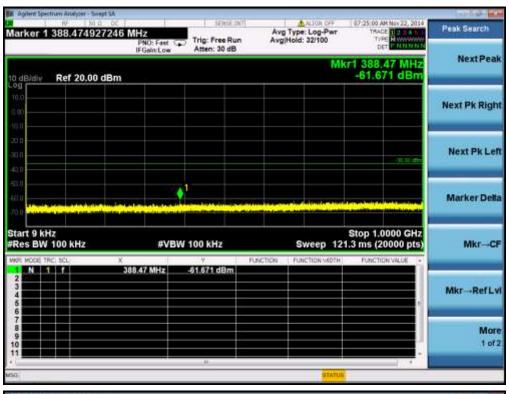
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

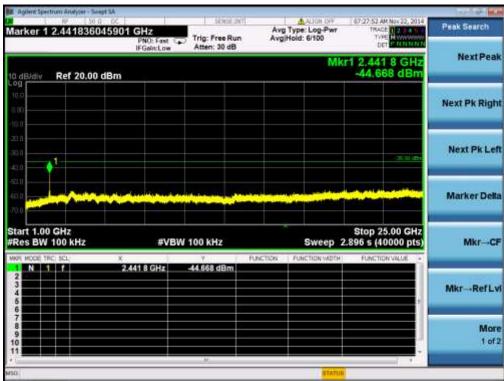




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

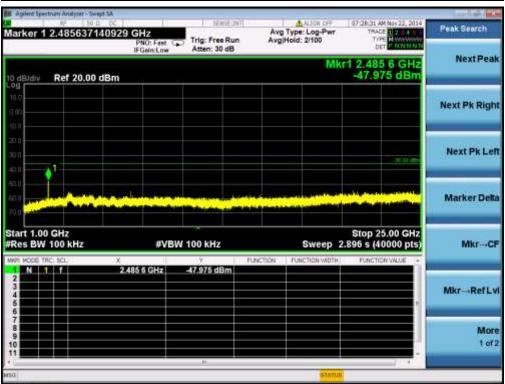




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

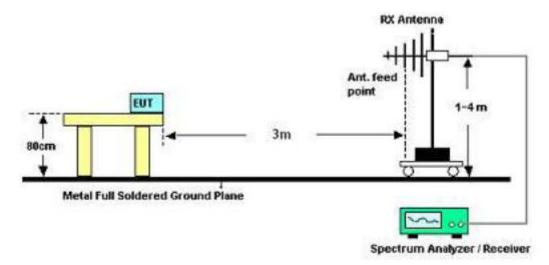
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

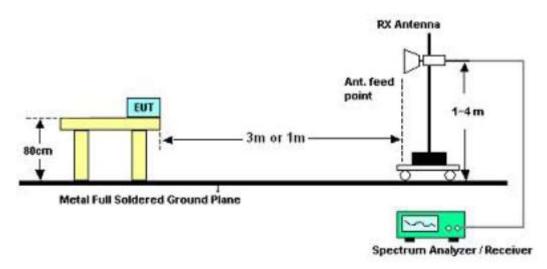
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10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



10.3. TEST RESULT (Worst Modulation: GFSK)

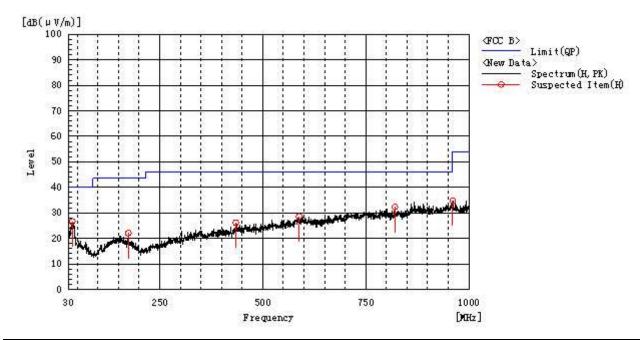
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

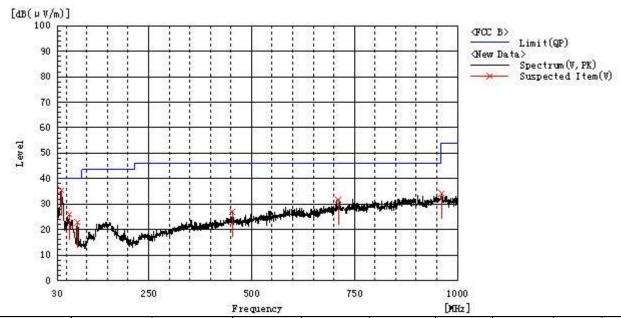


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	Н	5.4	21.2	26.6	40.0	13.4	Pass	100.0	180.7
960.715	Н	6.1	28.7	34.8	54.0	19.2	Pass	200.0	72.8
174.045	Н	7.6	14.5	22.1	43.5	21.4	Pass	100.0	144.3
434.975	Н	6.4	19.7	26.1	46.0	19.9	Pass	100.0	180.7
820.550	Н	6.3	26.0	32.3	46.0	13.7	Pass	100.0	107.1
588.235	Н	5.5	23.0	28.5	46.0	17.5	Pass	200.0	180.0

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
39.215	V	14.7	20.7	35.4	40.0	4.6	Pass	100.0	288.6
58.130	V	13.3	12.6	25.9	40.0	14.1	Pass	200.0	177.4
77.530	V	12.8	10.0	22.8	40.0	17.2	Pass	100.0	288.6
961.685	V	5.5	28.7	34.2	54.0	19.8	Pass	100.0	179.3
453.890	V	6.8	20.1	26.9	46.0	19.1	Pass	200.0	177.4
710.940	V	6.0	25.7	31.7	46.0	14.3	Pass	200.0	177.4

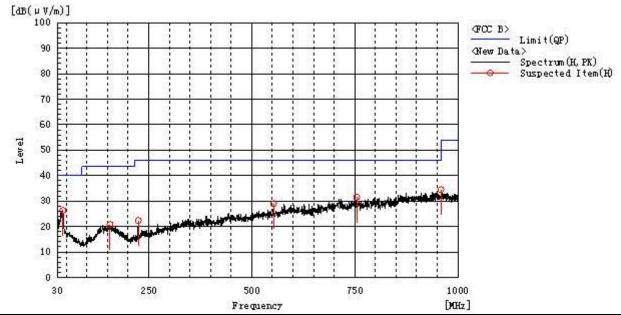
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL

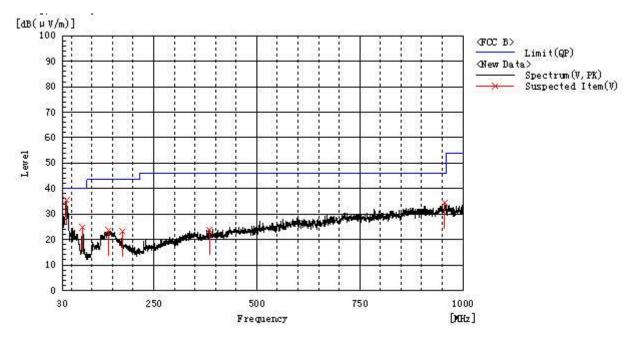


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	Н	7.5	18.8	26.3	40.0	13.7	Pass	100.0	72.9
958.775	Н	5.8	28.7	34.5	46.0	11.5	Pass	100.0	252.9
224.970	Н	10.6	11.7	22.3	46.0	23.7	Pass	100.0	288.6
552.830	Н	7.2	21.8	29.0	46.0	17.0	Pass	200.0	71.4
754.590	Н	5.9	25.6	31.5	46.0	14.5	Pass	100.0	179.3
156.585	Н	5.6	15.2	20.8	43.5	22.7	Pass	200.0	106.4

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



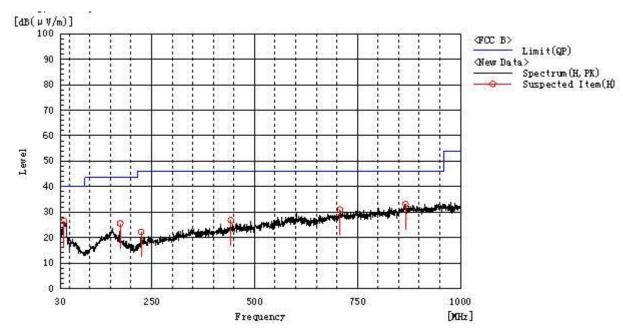
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.730	V	14.6	21.0	35.6	40.0	4.4	Pass	100.0	176.3
77.530	V	14.8	10.0	24.8	40.0	15.2	Pass	100.0	141.3
140.095	V	8.7	14.9	23.6	43.5	19.9	Pass	200.0	67.7
955.865	V	5.6	28.7	34.3	46.0	11.7	Pass	100.0	70.6
174.045	V	8.7	14.5	23.2	43.5	20.3	Pass	200.0	32.0
385.020	V	5.4	18.4	23.8	46.0	22.2	Pass	100.0	176.3

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

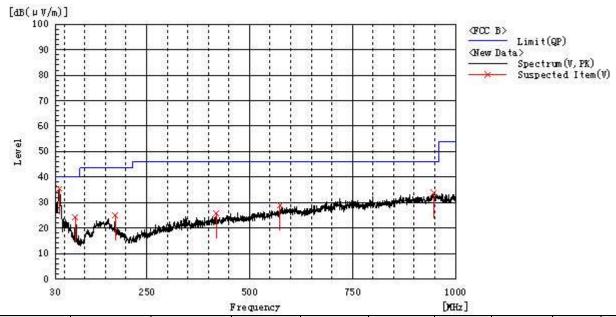
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
37.275	Н	5.6	20.8	26.4	40.0	13.6	Pass	100.0	325.0
174.045	Н	11.0	14.5	25.5	43.5	18.0	Pass	100.0	325.0
708.030	Н	5.4	25.5	30.9	46.0	15.1	Pass	100.0	182.8
442.735	Н	6.7	20.1	26.8	46.0	19.2	Pass	100.0	290.0
224.970	Н	10.5	11.7	22.2	46.0	23.8	Pass	100.0	252.8
866.625	Н	5.5	27.6	33.1	46.0	12.9	Pass	100.0	218.6

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	V	14.2	21.2	35.4	40.0	4.6	Pass	200.0	323.4
77.530	V	14.2	10.0	24.2	40.0	15.8	Pass	200.0	1.3
174.045	V	10.6	14.5	25.1	43.5	18.4	Pass	100.0	288.4
948.105	V	5.1	28.7	33.8	46.0	12.2	Pass	200.0	184.2
419.455	V	7.1	18.7	25.8	46.0	20.2	Pass	100.0	251.9
573.685	V	6.5	22.4	28.9	46.0	17.1	Pass	200.0	214.1

RESULT: PASS

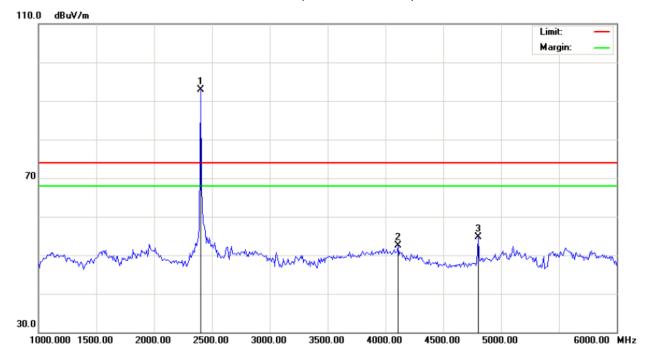
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

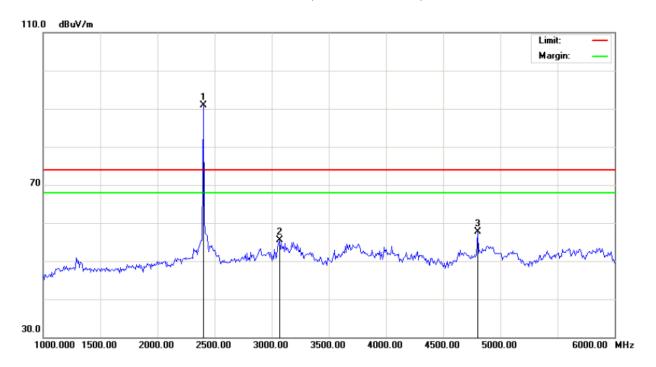
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2401.600	82.68	10.32	93.00	74.00	19.00	peak			
2		4108.333	39.16	13.39	52.55	74.00	-21.45	peak			
3		4803.200	47.07	7.68	54.75	74.00	-19.25	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

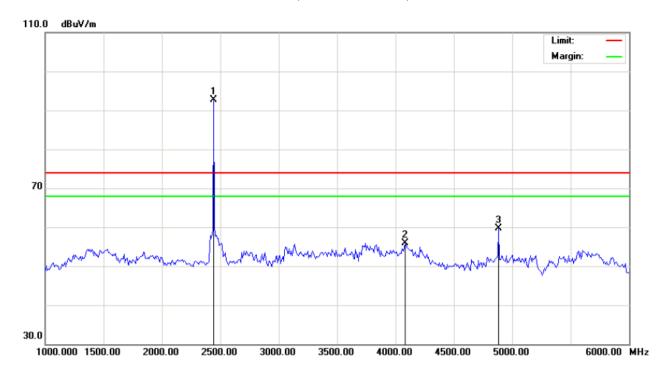
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2401.600	80.64	10.32	90.96	74.00	16.96	peak			
2		3066.667	43.90	11.70	55.60	74.00	-18.40	peak			
3		4803.200	50.01	7.68	57.69	74.00	-16.31	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

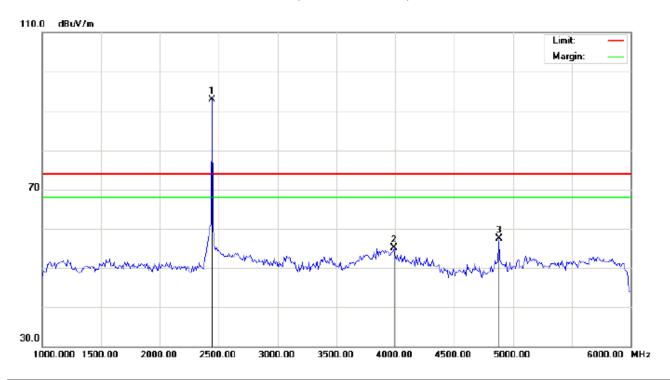
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2441.667	82.38	10.37	92.75	74.00	18.75	peak			
2		4083.333	42.11	13.81	55.92	74.00	-18.08	peak			
3		4883.333	51.81	7.89	59.70	74.00	-14.30	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) - MIDDLE CHANNEL - VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

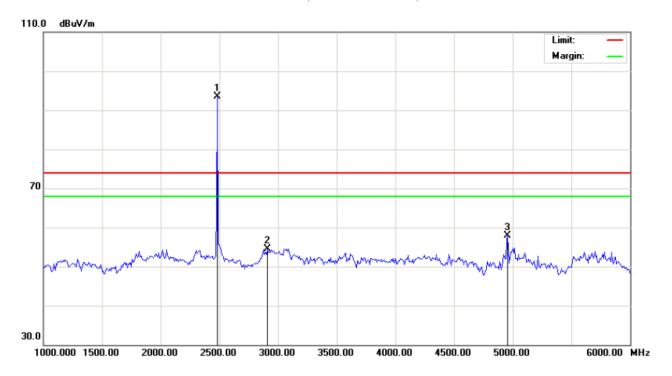
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2441.667	82.51	10.37	92.88	74.00	18.88	peak			
2		3991.667	39.99	15.14	55.13	74.00	-18.87	peak			
3		4883.333	49.60	7.89	57.49	74.00	-16.51	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: *Horizontal* Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

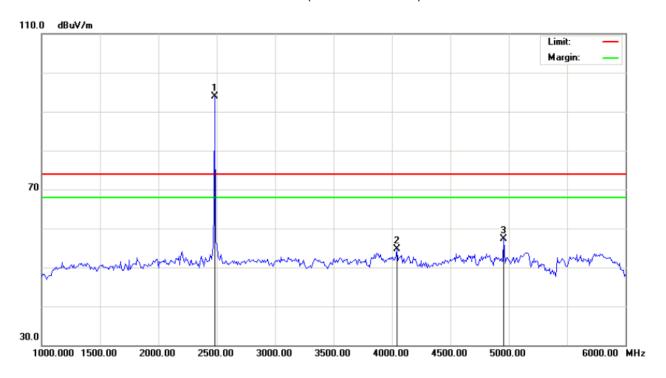
Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.333	83.10	10.41	93.51	74.00	19.51	peak			
2		2908.333	43.17	11.42	54.59	74.00	-19.41	peak			
3		4960.333	49.72	8.09	57.81	74.00	-16.19	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.333	83.59	10.41	94.00	74.00	20.00	peak			
2		4041.667	40.13	14.50	54.63	74.00	-19.37	peak			
3		4960.333	49.12	8.09	57.21	74.00	-16.79	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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11. BAND EDGE EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency, RBW>=100kHz, VBW>=3*RBW, Center frequency =Operation frequency
- 3. The band edges was measured and recorded.

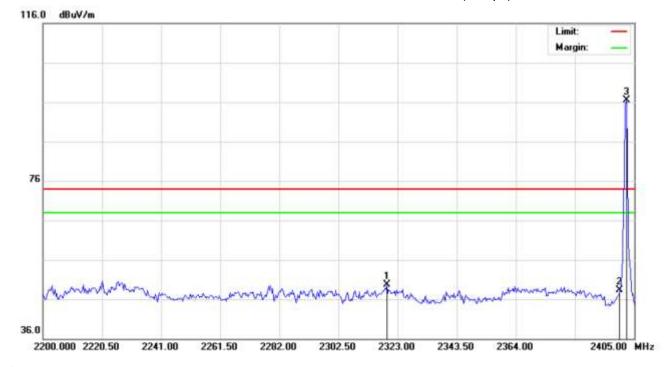
11.2. TEST SET-UP

Radiated same as 10.2

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11.3. TEST RESULT (Worst Modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Table PC Distance:

M/N: 8DTB39

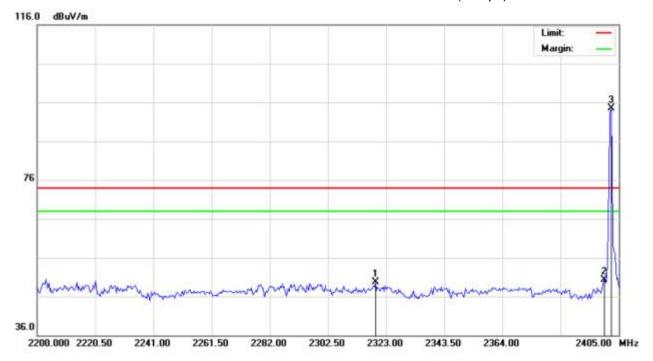
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment		
		MHz	10000000	370,730	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2319.242	39.55	10.23	49.78	74.00	-24.22	peak					
2		2400.000	37.97	10.32	48.29	74.00	-25.71	peak					
3		2402.267	85.22	10.32	95.54	74.00	22.54	peak					

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Table PC Distance:

M/N: 8DTB39

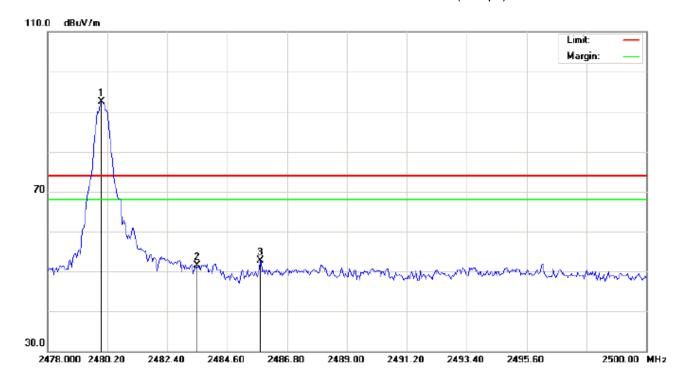
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
0000	ं	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2319.242	39.55	10.23	49.78	74.00	-24.22	peak			
2		2400.000	39.97	10.32	50.29	74.00	-23.71	peak			
3	*	2402.267	82.22	10.32	92.54	74.00	20.54	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

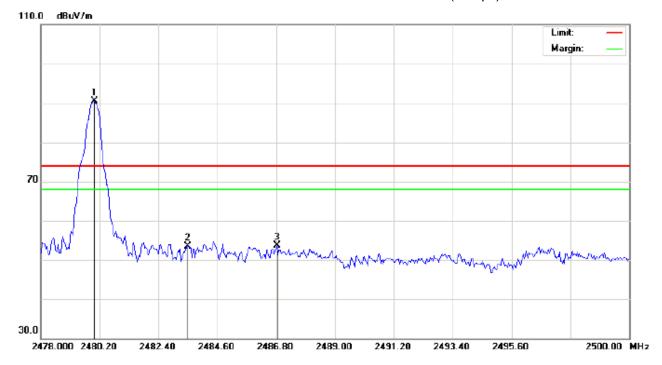
Mode:High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2479.980	82.14	10.41	92.55	74.00	18.55	peak			
2		2483.500	41.10	10.41	51.51	74.00	-22.49	peak			
3		2485.810	42.28	10.41	52.69	74.00	-21.31	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: 8DTB39

Mode:High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.017	80.15	10.41	90.56	74.00	16.56	peak			
2		2483.500	43.15	10.41	53.56	74.00	-20.44	peak			
3		2486.837	43.30	10.42	53.72	74.00	-20.28	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Hopping off and Hopping on have been tested and only worst case recorded

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12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

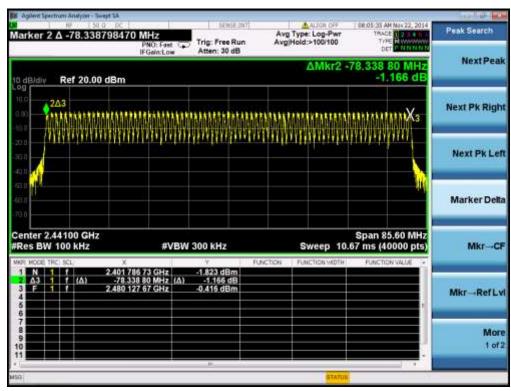
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF		MEASUREMENT (NO. OF CH)	RESULT	
HOPPING CHANNEL	>=15	79	PASS	

TEST PLOT FOR NO. OF TOTAL CHANNELS



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13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

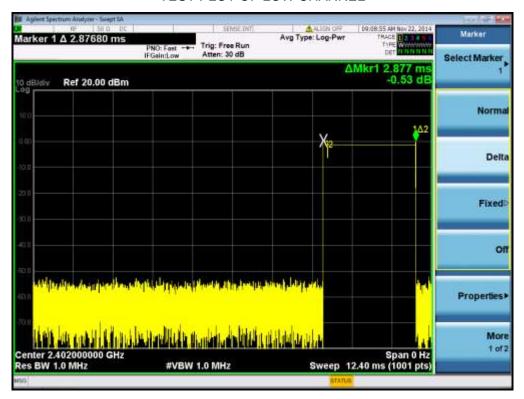
The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.877	31.6	306.88	400
Middle	2.877	31.6	306.88	400
High	2.877	31.6	306.88	400

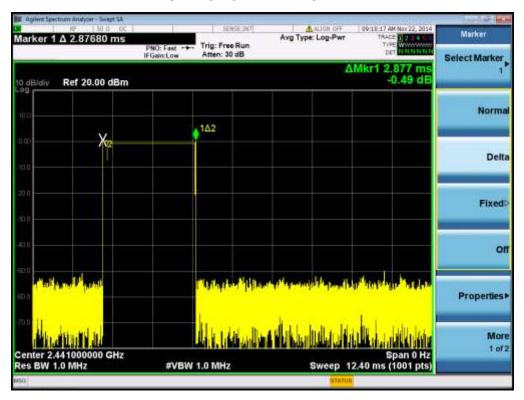
Low Channel Time 2.877*(1600/6)/79*31.6=306.88ms Middle Channel Time 2.877*(1600/6)/79*31.6=306.88ms High Channel Time 2.877*(1600/6)/79*31.6=306.88ms

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TEST PLOT OF LOW CHANNEL

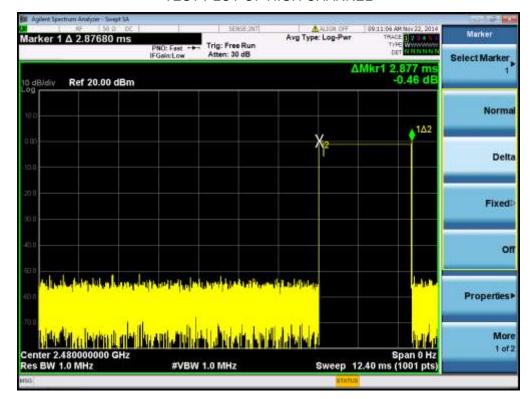


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT		
	KHz	KHz	Dage		
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass		

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TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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15. FCC LINE CONDUCTED EMISSION TEST

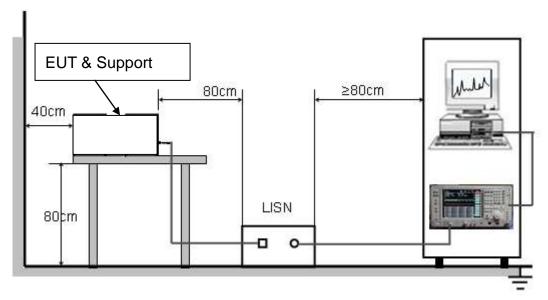
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received 120V/60Hzpower by a LISN...
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

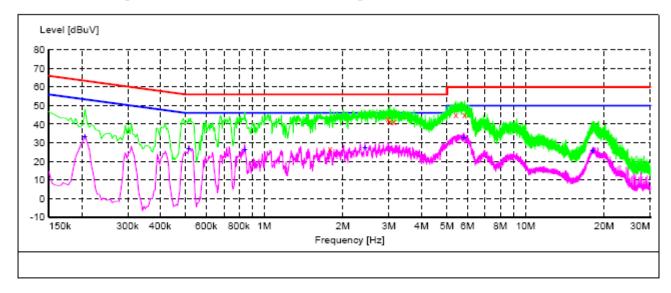
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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 9k-30M Voltage



MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				211112
1.790000 2.974000 3.022000 3.138000 5.410000 5.846000	27.00 42.70 41.20 41.30 45.10 45.20	0.3 0.3 0.3 0.3 0.4 0.4	56 56 56 56 60	29.0 13.3 14.8 14.7 14.9	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND	ON ON ON ON

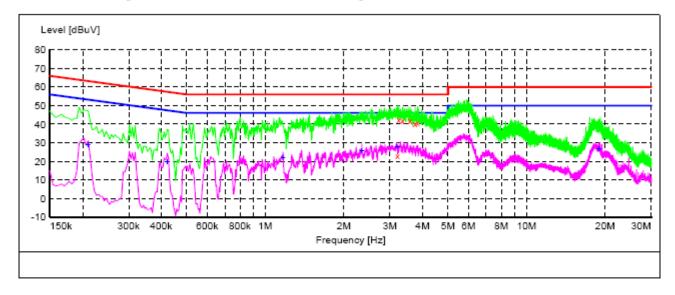
MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				SIRIE
0.206000 0.514000 0.842000 2.430000	33.30 26.90 26.40 27.10	0.2 0.2 0.2 0.3	53 46 46 46	20.1 19.1 19.6 18.9	AV AV AV	L1 L1 L1 L1	GND GND GND GND	ON ON ON
5.806000 18.094000	32.50 25.50	0.4 0.7	50 50	17.5 24.5	AV AV	L1 L1	GND GND	ON

Line Conducted Emission Test Line 2-N

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 9k-30M Voltage



MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
3.206000	23.10	0.3	56	32.9	QP	N	GND	ON
3.246000	42.20	0.3	56	13.8	QP	N	GND	ON
3.354000	42.10	0.3	56	13.9	QP	N	GND	ON
3.578000	41.80	0.3	56	14.2	QP	N	GND	ON
3.746000	40.30	0.3	56	15.7	QP	N	GND	ON
3.826000	40.80	0.3	56	15.2	QP	N	GND	ON

MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				DIAIL
0.210000	29.00	0.2	53	24.2	AV	N	GND	ON
0.422000	19.60	0.2	47	27.8	AV	N	GND	ON
1.170000	21.90	0.2	46	24.1	AV	N	GND	ON
2.342000	25.70	0.3	46	20.3	AV	N	GND	ON
3.194000	27.70	0.3	46	18.3	AV	N	GND	ON
18.934000	27.00	0.8	50	23.0	AV	N	GND	ON

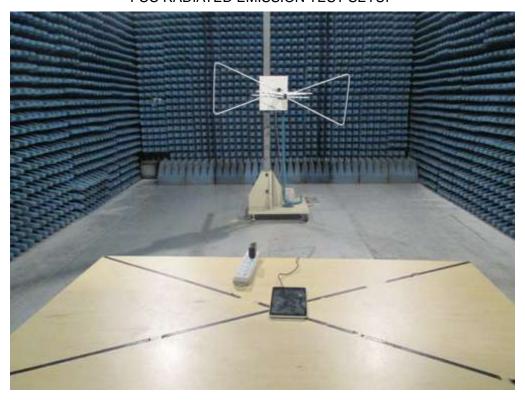
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



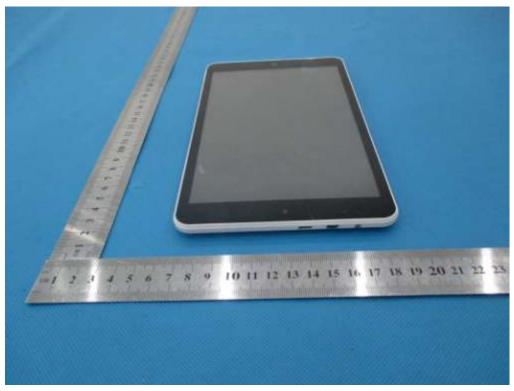
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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

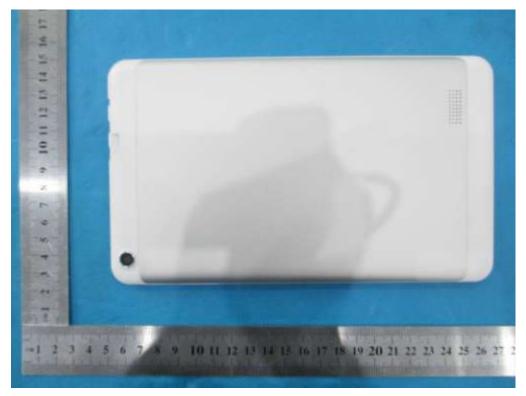


FRONT VIEW OF EUT

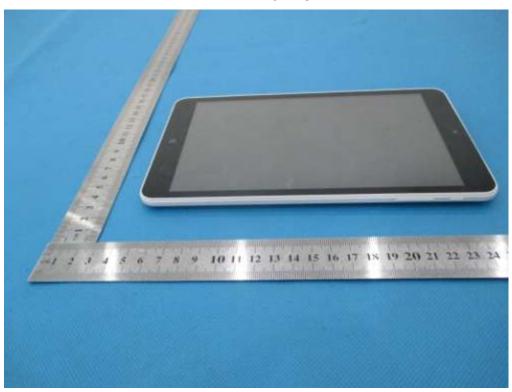


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LEFT VIEW OF EUT

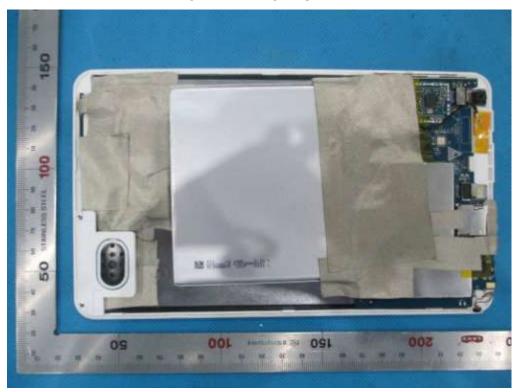


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RIGHT VIEW OF EUT

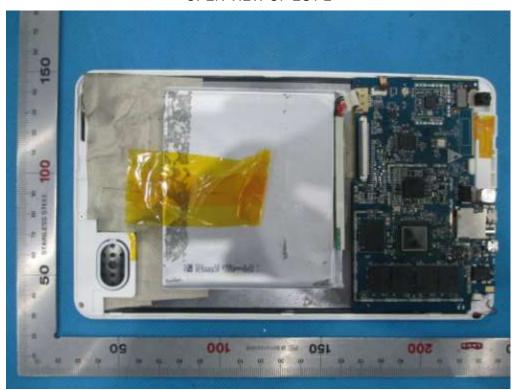


OPEN VIEW OF EUT-1

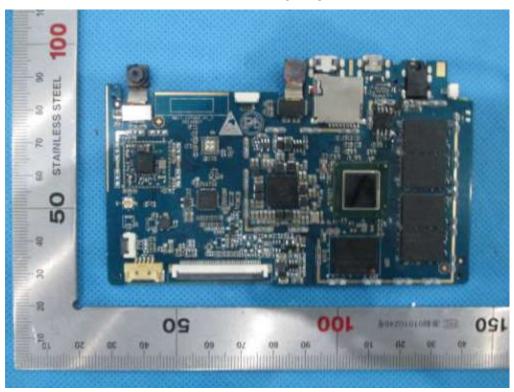


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OPEN VIEW OF EUT-2

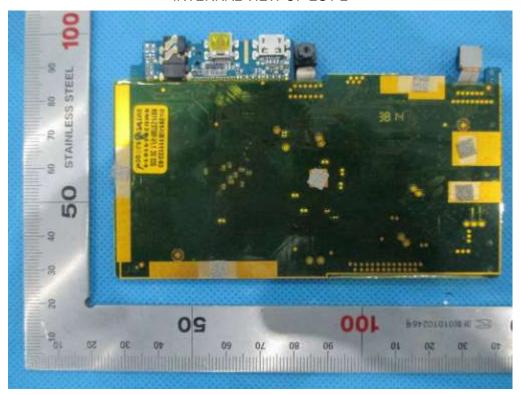


INTERNAL VIEW OF EUT-1

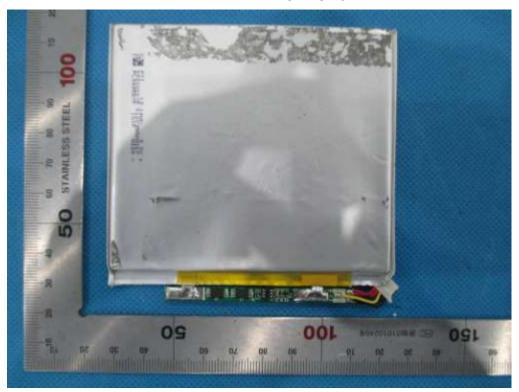


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INTERNAL VIEW OF EUT-2

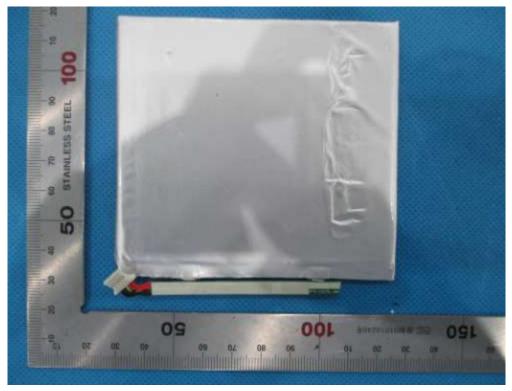


INTERNAL VIEW OF EUT-3



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INTERNAL VIEW OF EUT-4



----END OF REPORT----