

FCC Test Report

Report No.: AGC06691200301FE03

FCC ID : 2ARU9PAN001

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: TABLET PC

BRAND NAME : HOMA

MODEL NAME : HM-PAN-110

APPLICANT: Homa Technologies JSC

DATE OF ISSUE : Apr. 18, 2020

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Page 2 of 69

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Apr. 18, 2020	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RECEIVER INPUT BANDWIDTH	
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	7
2.6. RELATED SUBMITTAL(S) / GRANT (S)	8
2.7. TEST METHODOLOGY	
2.8. SPECIAL ACCESSORIES	
2.9. EQUIPMENT MODIFICATIONS	8
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	10
5. SYSTEM TEST CONFIGURATION	11
5.1. CONFIGURATION OF EUT SYSTEM	11
5.2 EQUIPMENT USED IN TESTED SYSTEM	
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	12
7. PEAK OUTPUT POWER	13
7.1. MEASUREMENT PROCEDURE	13
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
7.3. LIMITS AND MEASUREMENT RESULT	
8. 20DB BANDWIDTH	20
8.1. MEASUREMENT PROCEDURE	20
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	20
8.3. LIMITS AND MEASUREMENT RESULTS	20
9. CONDUCTED SPURIOUS EMISSION	27
9.1. MEASUREMENT PROCEDURE	27
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	27
0.2 MEASUDEMENT FOUIDMENT USED	27

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9.4. LIMITS AND MEASUREMENT RESULT	27
10. RADIATED EMISSION	37
10.1. MEASUREMENT PROCEDURE	37
10.2. TEST SETUP	39
10.3. LIMITS AND MEASUREMENT RESULT	40
10.4. TEST RESULT	40
11. NUMBER OF HOPPING FREQUENCY	50
11.1. MEASUREMENT PROCEDURE	50
11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	50
11.3. MEASUREMENT EQUIPMENT USED	50
11.4. LIMITS AND MEASUREMENT RESULT	
12. TIME OF OCCUPANCY (DWELL TIME)	
12.1. MEASUREMENT PROCEDURE	51
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	51
12.3. MEASUREMENT EQUIPMENT USED	51
12.4. LIMITS AND MEASUREMENT RESULT	
13. FREQUENCY SEPARATION	
13.1. MEASUREMENT PROCEDURE	55
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
13.3. MEASUREMENT EQUIPMENT USED	55
13.4. LIMITS AND MEASUREMENT RESULT	55
14. FCC LINE CONDUCTED EMISSION TEST	56
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST	56
14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	56
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	58
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	60
APPENDIX B: PHOTOGRAPHS OF EUT	62

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1. VERIFICATION OF CONFORMITY

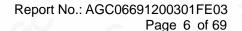
Applicant	Homa Technologies JSC		
Address	Building 5, 13th Street, QTSC, Tan Chanh Hiep Ward, District12, Ho Chi Minh City, Vietnam		
Manufacturer	JIANGXI HONGYAODA COMMUNICATION LIMITED		
Address	NO.69, NORTH OF GOLD AVENUE, NORTH AREA OF HONGKONG INDUSTRIAL PARK, GANZHOU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, GANZHOU CITY, JIANGXI PROVINCE, CHINA		
Factory	JIANGXI HONGYAODA COMMUNICATION LIMITED		
Address	NO.69, NORTH OF GOLD AVENUE, NORTH AREA OF HONGKONG INDUSTRIAL PARK, GANZHOU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, GANZHOU CITY, JIANGXI PROVINCE, CHINA		
Product Designation	TABLET PC		
Brand Name	НОМА		
Test Model	HM-PAN-110		
Date of test	Mar. 24, 2020 to Apr. 18, 2020		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

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 C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Prepared By	NiVi. Guo	
	Nini Guo (Project Engineer)	Apr. 18, 2020
Reviewed By	Max Zhang	
GC C	Max Zhang (Reviewer)	Apr. 18, 2020
Approved By	Forestes	
C C	Forrest Lei (Authorized Officer)	Apr. 18, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "TABLET PC". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

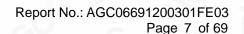
A major technical description of EUT is described as following

7 major tooriinear accomption	Total to described as following
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	8.620dBm(Max)
Bluetooth Version	V 4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	UX1.1
Software Version	PF125UX.P0.V10.32.HYD-V05.8788_7249
Antenna Designation	Integral Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	0dBi
Power Supply	DC 5V by adapter or DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
2.G ®	0	2402MHZ	
100	- 0 1	2403MHZ	
	, CO . CO		
GC CC	38	2440 MHZ	
2402~2480MHZ	39	2441 MHZ	
	40	2442 MHZ	
	: 3	CG :	
	77	2479 MHZ	
8	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

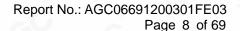
The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

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: 2ARU9PAN001** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

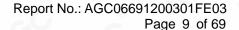
2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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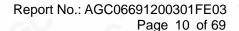


3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: Uc = ±2 %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1	Low channel GFSK			
2	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π/4-DQPSK			
5	Middle channel π/4-DQPSK			
6	High channel π/4-DQPSK			
9 7	Low channel 8DPSK			
8	Middle channel 8DPSK			
9	High channel 8DPSK			
10	Hopping mode GFSK			
11	Hopping mode π/4-DQPSK			
12	Hopping mode 8DPSK			

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.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 4. The test software is the engineering mode apk which can set the EUT into the individual test modes.

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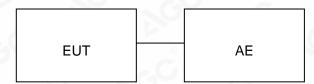


Page 11 of 69

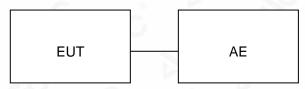
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	n Equipment Model No.		ID or Specification	Remark
1	TABLET PC	HM-PAN-110	2ARU9PAN001	EUT
2	Adapter	GLY-G43UA-050200-629A	Input: AC100-240V, 50/6Hz, 0.3A Output:DC5V, 2A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

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Page 12 of 69

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

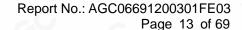
TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 26, 2020	Feb. 25, 2021
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

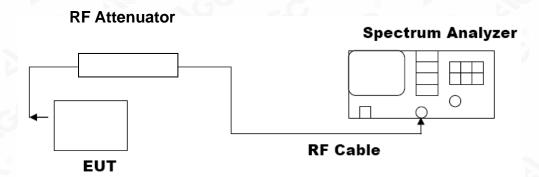
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

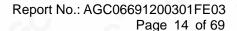
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT			
	FOR GFSK MOUI	DULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	7.369	30	Pass
2.441	8.620	30	Pass
2.480	6.287	30	Pass

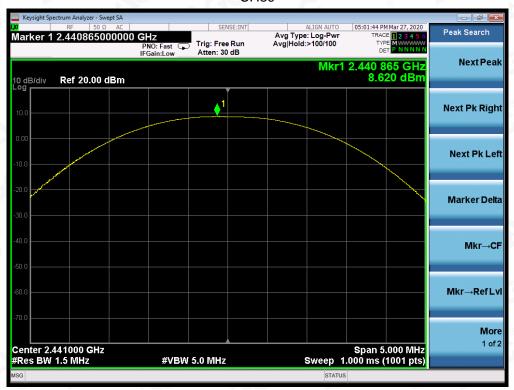
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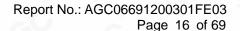
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PEAK OUTPUT POWER MEASUREMENT RESULT			
	FOR II /4-DQPSK	MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.809	30	Pass
2.441	5.798	30	Pass
2.480	5.188	30	Pass

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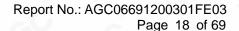
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.870	30	Pass
2.441	4.781	30	Pass
2.480	5.175	30	Pass

CH₀



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CH39



CH78



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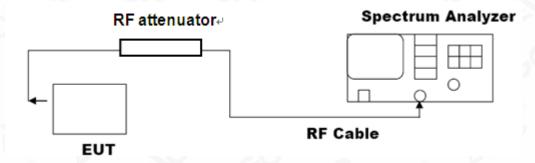
Page 20 of 69

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 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times 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

MEASUREMENT RESULT FOR GFSK MOUDULATION			
Measurement Result			
Applicable Limits	Test Data	(MHz)	Criteria
70 100	Low Channel	0.816	PASS
N/A	Middle Channel	0.802	PASS
	High Channel	0.817	PASS

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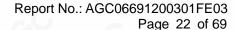
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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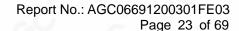




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



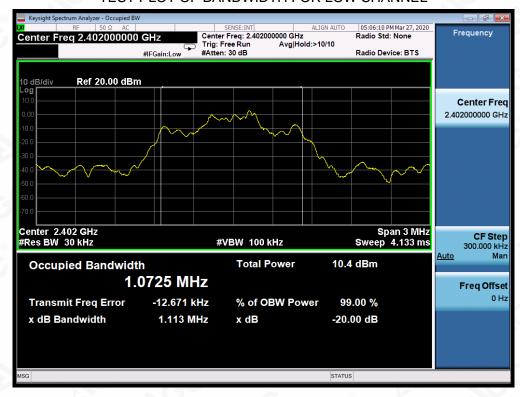
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MEASUREMENT RESULT FOR ∏ /4-DQPSK MODULATION				
Measurement Result				
Applicable Limits	Test Data	(MHz)	Criteria	
N/A	Low Channel	1.113	PASS	
	Middle Channel	1.115	PASS	
	High Channel	1.116	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the coefficient estimated approver, or having been altered without authorization, or having not been stamped by the coefficient estimated approver, or having been altered without authorization, or having not been stamped by the coefficient estimated approver, or having been altered without authorization, or having not been stamped by the coefficient estimated in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Applicable Limite		Measurement Result		
Applicable Limits	Test Data	(MHz)	Criteria	
N/A	Low Channel	1.105	PASS	
	Middle Channel	1.111	PASS	
	High Channel	1.110	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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Page 27 of 69

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= 300 kHz; 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			
Applicable Limite	Measurement Result		
Applicable Limits	Test Data	Criteria	
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS	
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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS	

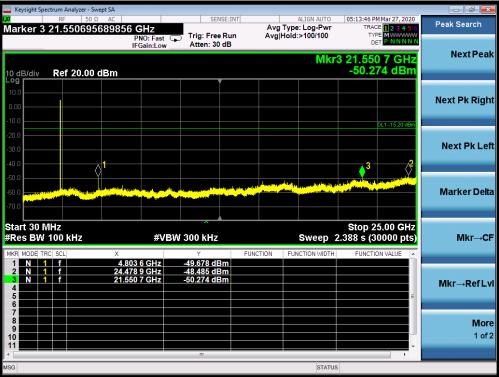
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TEST RESULT FOR ENTIRE FREQUENCY RANGE

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



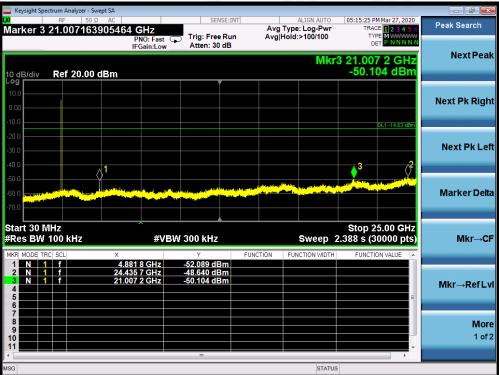


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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

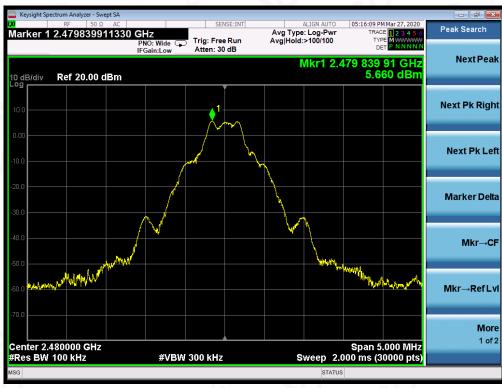


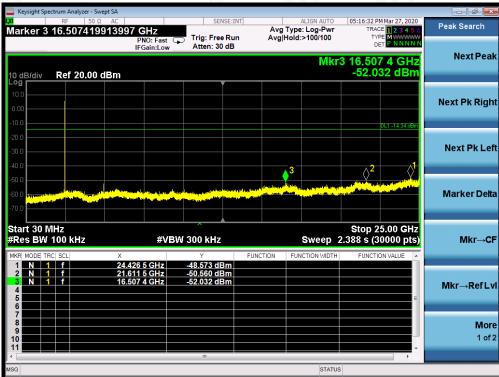


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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





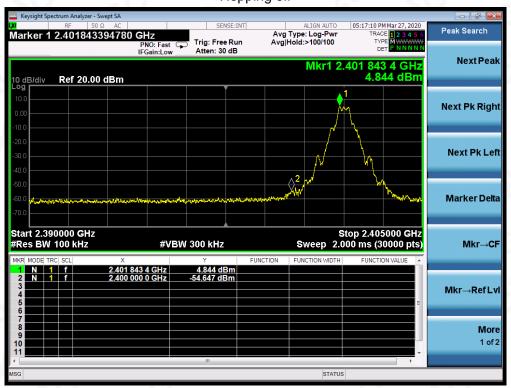
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

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TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL Hopping off



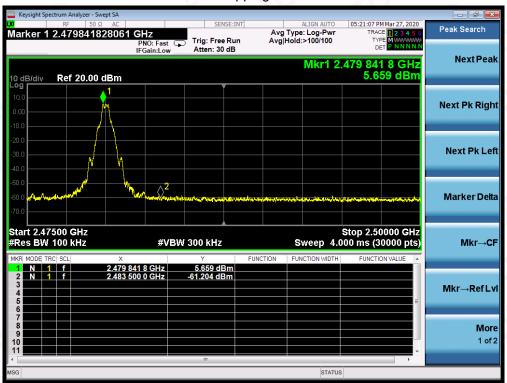
Hopping on



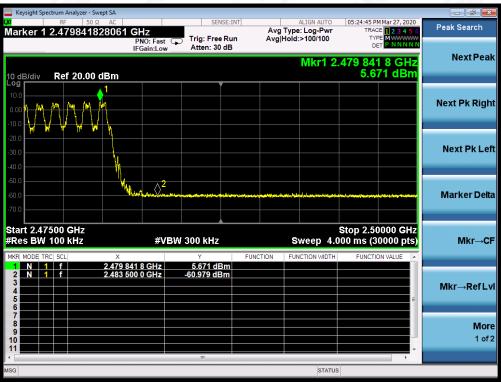
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GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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8-DPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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8-DPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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Page 37 of 69

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 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 RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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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Page 38 of 69

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	
Start ~Stop r requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average	

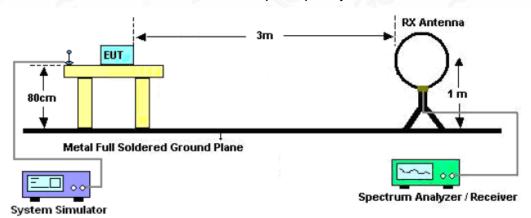
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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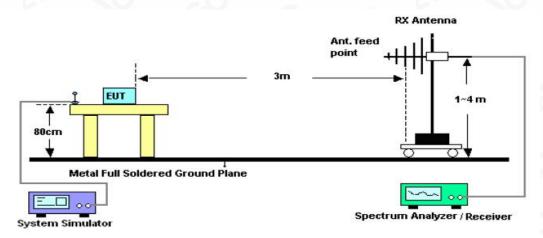


10.2. TEST SETUP

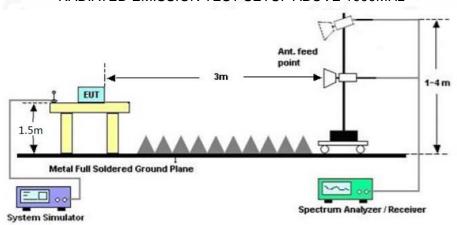
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 40 of 69

10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

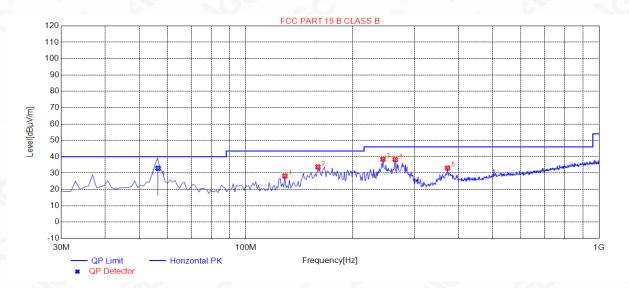
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



Peak data list:

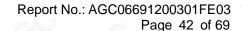
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	128.9400	28.23	14.08	43.50	15.27	200	306	Horizontal
2	159.9800	33.83	14.94	43.50	9.67	200	328	Horizontal
3	244.3700	38.50	14.78	46.00	7.50	100	124	Horizontal
4	264.7400	38.33	14.96	46.00	7.67	100	244	Horizontal
5	372.4100	33.11	18.70	46.00	12.89	100	324	Horizontal

QP data list:

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.4181	14.18	32.94	40.00	7.06	270	170	Horizontal

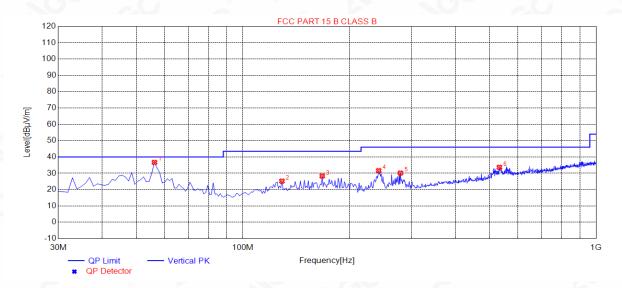
RESULT: PASS

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EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.1900	36.68	14.20	40.00	3.32	100	211	Vertical
2	128.9400	25.20	14.08	43.50	18.30	100	312	Vertical
3	167.7400	28.33	14.17	43.50	15.17	100	181	Vertical
4	242.4300	31.63	14.81	46.00	14.37	100	48	Vertical
5	279.2900	30.16	16.23	46.00	15.84	100	286	Vertical
6	532.4600	33.67	22.89	46.00	12.33	100	162	Vertical

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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Page 43 of 69

RADIATED EMISSION ABOVE 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.022	44.29	0.08	44.37	74.00	-29.63	peak ®
4804.022	40.27	0.08	40.35	54.00	-13.65	AVG
7206.033	41.38	2.21	43.59	74.00	-30.41	peak
7206.033	37.06	2.21	39.27	54.00	-14.73	AVG
70	7,0	0	©		<u> </u>	8
emark:			0			
actor = Anter	na Factor + Cable	Loss - Pre-	amplifier.			
	(0)				(8)	

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.022	44.37	0.08	44.45	74.00	-29.55	peak
4804.022	39.56	0.08	39.64	54.00	-14.36	AVG
7206.033	41.07	2.21	43.28	74.00	-30.72	peak
7206.033	36.52	2.21	38.73	54.00	-15.27	AVG
× 6		<u> </u>				
emark:			®			
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.			
				· · · · · · · · · · · · ·		

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Page 44 of 69

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	44.63	0.14	44.77	74.00	-29.23	peak
4882.022	38.74	0.14	38.88	54.00	-15.12	AVG
7323.033	41.26	2.36	43.62	74.00	-30.38	peak
7323.033	36.78	2.36	39.14	54.00	-14.86	AVG
- 0	®		9 300	-6	8	
Remark:	C	8			a.C	8
Factor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.			
(8)				(e)		

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Terra
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	43.69	0.14	43.83	74.00	-30.17	peak
4882.022	38.14	0.14	38.28	54.00	-15.72	AVG
7323.033	39.28	2.36	41.64	74.00	-32.36	peak
7323.033	35.91	2.36	38.27	54.00	-15.73	AVG
emark:						
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.	®		
	(3)				(8)	

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Page 45 of 69

EUT	TABLET PC	Model Name	HM-PAN-110		
Temperature	25°C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 3	Antenna	Horizontal		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.022	43.87	0.22	44.09	74.00	-29.91	peak
4960.022	38.25	0.22	38.47	54.00	-15.53	AVG
7440.033	40.73	2.64	43.37	74.00	-30.63	peak
7440.033	35.08	2.64	37.72	54.00	-16.28	AVG
	8		4 (0)	-6	<u>(8)</u>	
emark:	C	(3)				(8)
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			
	1 2 2 2 2 2 3 7 7 2 4 2 5	2200				

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.022	43.26	0.22	43.48	74.00	-30.52	peak
4960.022	39.07	0.22	39.29	54.00	-14.71	AVG
7440.033	40.39	2.64	43.03	74.00	-30.97	peak
7440.033	35.15	2.64	37.79	54.00	-16.21	AVG
G					8	
						3
Remark:	20	®		< G		©
Factor = Anter	nna Factor + Cable	e Loss - Pre-	amplifier.			
®			4.0	3		

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

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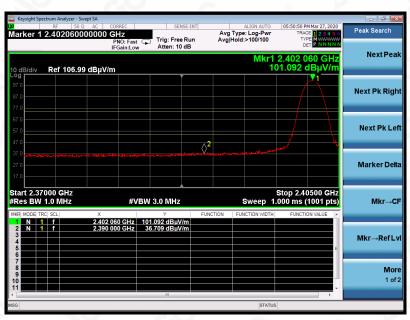
g/Inspection
The test results
the test report.



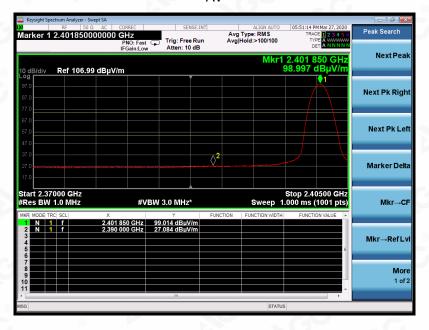
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PΚ



ΑV



RESULT: PASS

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