

TEST REPORT

FCC ID: 2AX8U-K106

Product: Tablet

Model No.: K106

Additional Model No.: K110, K111, K112, K113, K116, K118, K710, K711, K712

Trade Mark: N/A

Report No.: TCT200810E005

Issued Date: Nov. 10, 2020

Issued for:

Shenzhen KaiDa technology digital co, LTD 4/F, Building C, No.9 huayuan Xincun Avenue, Xiangjiaotang Community, Bsntian Street, Longgang District, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339 FAX: +86-755-27673332

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

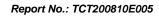




TABLE OF CONTENTS

1.	Test Certification		
2.	Test Result Summary	(0)	4
3.	EUT Description		. 5
4.	General Information		. 7
	4.1. Test environment and mode		7
	4.2. Description of Support Units		
5.	Facilities and Accreditations	<u>(6</u>	8
	5.1. Facilities		8
	5.2. Location		
	5.3. Measurement Uncertainty	(201)	8
6.	Test Results and Measurement Data		. 9
	6.1. Antenna requirement		
	6.2. Conducted Emission		10
	6.3. Conducted Output Power		
	6.4. 20dB Occupy Bandwidth		
	6.5. Carrier Frequencies Separation		24
	6.6. Hopping Channel Number		
	6.7. Dwell Time		
	6.8. Pseudorandom Frequency Hopping Sequence		37
	6.9. Conducted Band Edge Measurement		
	6.10. Conducted Spurious Emission Measurement	(60)	42
	6.11. Radiated Spurious Emission Measurement		46
A	opendix A: Photographs of Test Setup		
A	ppendix B: Photographs of EUT		



1. Test Certification

Report No.:	TCT200810E005
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Product:	Tablet
Model No.:	K106
Additional Model No.:	K110, K111, K112, K113, K116, K118, K710, K711, K712
Trade Mark:	N/A
Applicant:	Shenzhen KaiDa technology digital co, LTD
Address:	4/F, Building C, No.9 huayuan Xincun Avenue, Xiangjiaotang Community, Bsntian Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen KaiDa technology digital co, LTD
Address:	4/F, Building C, No.9 huayuan Xincun Avenue, Xiangjiaotang Community, Bsntian Street, Longgang District, Shenzhen, China
Date of Test:	Oct. 12, 2020 – Nov. 09, 2020
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Brane. Deng.	Date:	Nov. 09, 2020	
(C)	Brave Zeng	((C)	
Reviewed By:	Beryl sharo	Date:	Nov. 10, 2020	
	Beryl Zhao			
Approved By:	Tomsin	Date:	Nov. 10, 2020	
	Tomsin			



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(1)	PASS
20dB Occupied Bandwidth	§15.247 (a)(1)	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209	PASS
Band Edge	§15.247(d)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





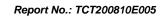
3. EUT Description

TES	STING CENTRE TECHNOLOGY	Report No.: TCT200810E005

Product:	Tablet
Model No.:	K106
Additional Model No.:	K110, K111, K112, K113, K116, K118, K710, K711, K712
Trade Mark:	N/A
Bluetooth Version:	V4.2
Operation Frequency:	2402MHz~2480MHz
Transfer Rate:	1/2/3 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Modulation Technology:	FHSS
Antenna Type:	FPC Antenna
Antenna Gain:	2.0dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
AC adapter:	Adapter Information: MODEL: BCT050200-078U INPUT: AC 100-240V, 50/60Hz, 0.3A OUTPUT: DC 5V, 2000mA
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.







Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
		• • •					
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		-

Remark: Channel 0, 39 &78 have been tested for GFSK, π /4-DQPSK, 8DPSK modulation mode.





4. General Information

4.1. Test environment and mode

Operating Environment:						
Condition	Conducted Emission	Radiated Emission				
Temperature:	25.0 °C	25.0 °C				
Humidity:	55 % RH	55 % RH				
Atmospheric Pressure:	1010 mbar	1010 mbar				
Test Mode:						
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery						

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

4.2. Description of 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1	/ /	9 1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Report No.: TCT200810E005



5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab.

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab.

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

Tel: 86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

Report No.: TCT200810E005



Antenna

Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

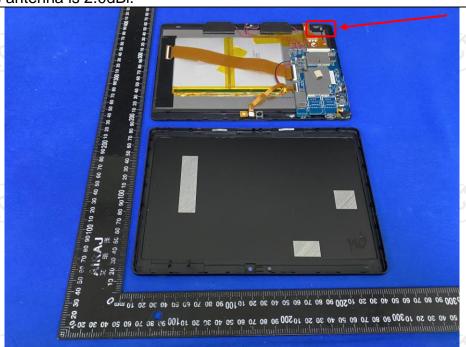
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

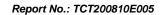
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 2.0dBi.



Page 9 of 66





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
	Frequency range Limit (dBu		dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Referenc	e Plane			
Test Setup: Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m			— AC power		
Test Mode:	Refer to item 4.1				
Test Procedure:	1. The E.U.T is connermoniated impedance stabilized provides a 500hm/s measuring equipme 2. The peripheral device power through a Licoupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interfered emission, the relative the interface cables ANSI C63.10:2013 of the conducted interface.	cation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm terr diagram of the line are checkence. In order to fi e positions of equ must be changed	(L.I.S.N.). This appedance for the ected to the main a 500hm/50uH mination. (Please test setup and ed for maximum and the maximum alipment and all of according to		
Test Result:	PASS				



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Equipment Manufacturer Model Serial Number Calibration Due						
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021			
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021			
Line-5	TCT	CE-05	N/A	Sep. 02, 2021			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



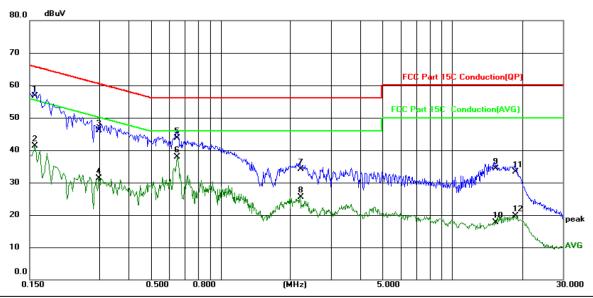


6.2.3. Test data

Report No.: TCT200810E005

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Please refer to following diagram for individual



Site Phase: L1 Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1580	46.50	10.12	56.62	65.57	-8.95	QP	
2		0.1580	31.18	10.12	41.30	55.57	-14.27	AVG	
3		0.2980	36.07	10.13	46.20	60.30	-14.10	QP	
4		0.2980	21.25	10.13	31.38	50.30	-18.92	AVG	
5		0.6500	33.66	10.12	43.78	56.00	-12.22	QP	
6	*	0.6500	27.72	10.12	37.84	46.00	-8.16	AVG	
7		2.2100	24.07	10.12	34.19	56.00	-21.81	QP	
8		2.2100	15.42	10.12	25.54	46.00	-20.46	AVG	
9		15.3740	24.15	10.18	34.33	60.00	-25.67	QP	
10		15.3740	7.43	10.18	17.61	50.00	-32.39	AVG	
11		18.6620	23.20	10.19	33.39	60.00	-26.61	QP	
12		18.6620	9.55	10.19	19.74	50.00	-30.26	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

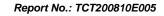
 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

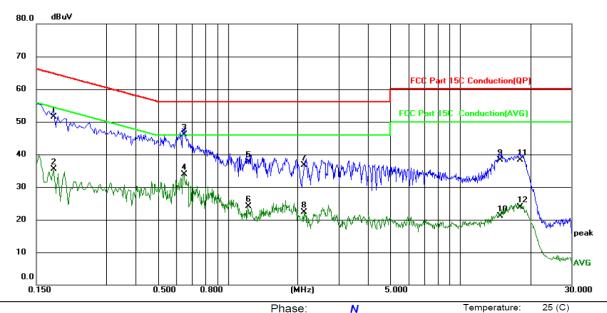
AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power: AC 120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1780	41.35	10.22	51.57	64.58	-13.01	QP	
2		0.1780	25.30	10.22	35.52	54.58	-19.06	AVG	
3	*	0.6460	35.81	10.23	46.04	56.00	-9.96	QP	
4		0.6460	23.72	10.23	33.95	46.00	-12.05	AVG	
5		1.2180	27.29	10.38	37.67	56.00	-18.33	QP	
6		1.2180	13.64	10.38	24.02	46.00	-21.98	AVG	
7		2.1300	26.29	10.45	36.74	56.00	-19.26	QP	
8		2.1300	11.76	10.45	22.21	46.00	-23.79	AVG	
9		14.8260	27.47	10.78	38.25	60.00	-21.75	QP	
10		14.8260	10.38	10.78	21.16	50.00	-28.84	AVG	
11		18.1340	27.33	10.97	38.30	60.00	-21.70	QP	
12		18.1340	12.98	10.97	23.95	50.00	-26.05	AVG	

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Highest channel and 8DPSK) was submitted only.



6.3. Conducted Output Power

6.3.1. Test Specification

A) A)				
Test Requirement:	FCC Part15 C Section 15.247 (b)(1)			
Test Method:	KDB 558074 D01 v05r02			
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.			
Test Result:	PASS			

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2021
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.3.3. Test Data

TESTING CENTRE TECHNOLOGY Report No.: TCT200810E005

GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-4.26	21.00	PASS			
Middle	-3.50	21.00	PASS			
Highest	-2.91	21.00	PASS			

Pi/4DQPSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-2.61	21.00	PASS		
Middle	-1.45	21.00	PASS		
Highest	-0.88	21.00	PASS		

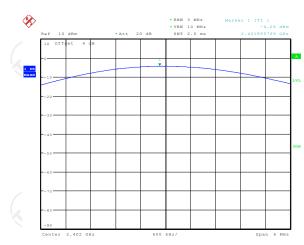
8DPSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.37	21.00	PASS			
Middle	-1.13	21.00	PASS			
Highest	-0.50	21.00	PASS			

Test plots as follows:



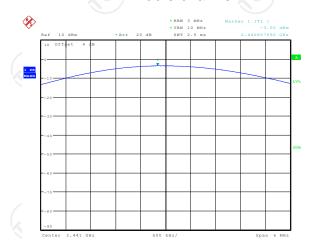


Lowest channel



Date: 11.SEP.2020 09:55:03

Middle channel



Date: 11.SEP.2020 09:55:20

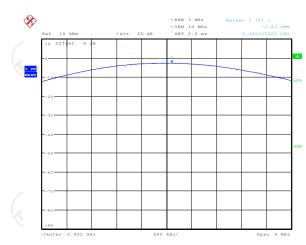
Highest channel



Date: 11.SEP.2020 09:55:34

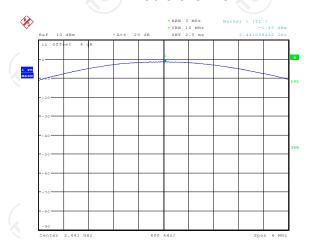


Lowest channel



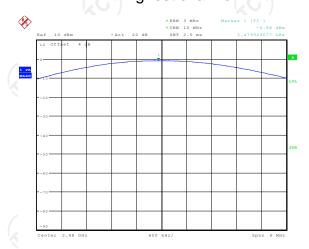
Date: 11.SEP.2020 09:55:51

Middle channel



Date: 11.SEP.2020 09:56:08

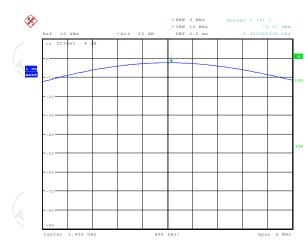
Highest channel



Date: 11.SEP.2020 09:56:22

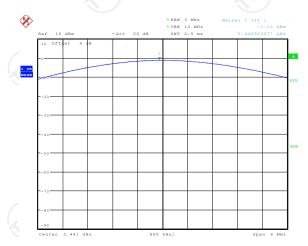


Lowest channel



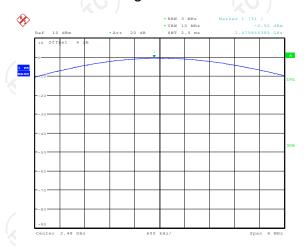
Date: 11.SEP.2020 09:56:41

Middle channel



ate: 11.SEP.2020 09:57:04

Highest channel



Date: 11.SEP.2020 09:57:22



6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	N/A					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1% RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 					
Test Result:	PASS					

6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

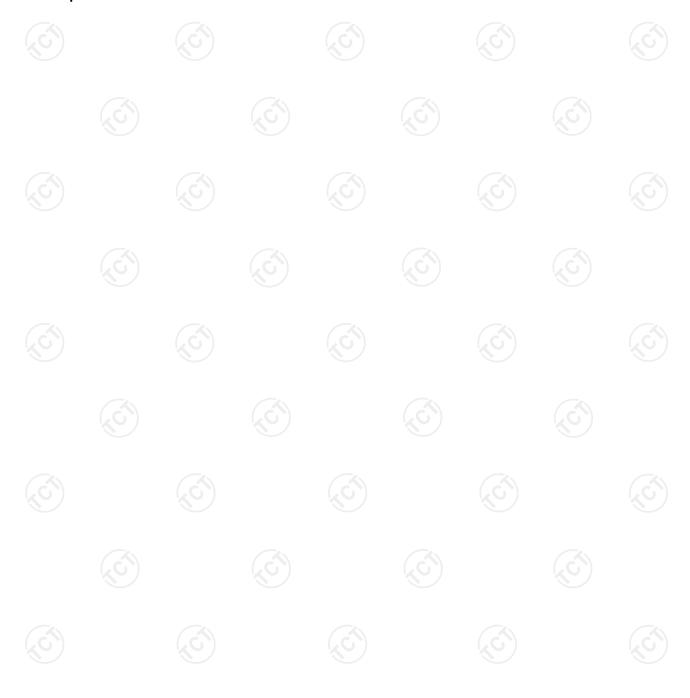


6.4.3. Test data

Report	No.:	TCT200	810E005
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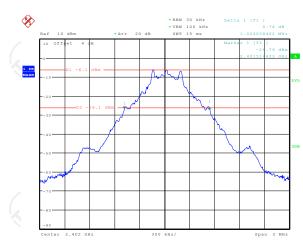
Test channel	20dB Occupy Bandwidth (kHz)				
rest channel	GFSK	π/4-DQPSK	8DPSK	Conclusion	
Lowest	1024.04	1245.19	1269.23	PASS	
Middle	1024.04	1254.81	1269.23	PASS	
Highest	1009.62	1264.42	1264.42	PASS	

Test plots as follows:



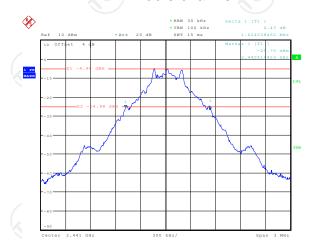


Lowest channel



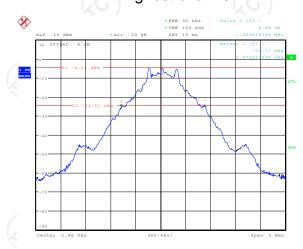
Date: 11.SEP.2020 09:59:36

Middle channel



Date: 11.SEP.2020 10:00:50

Highest channel



Date: 11.SEP.2020 10:02:32

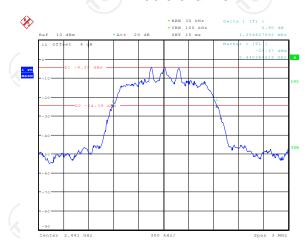


Lowest channel



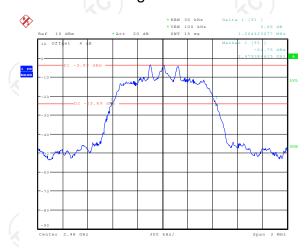
Date: 11.SEP.2020 10:04:11

Middle channel



Date: 11.SEP.2020 10:05:11

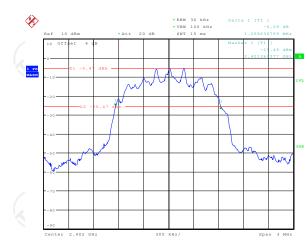
Highest channel



Date: 11.SEP.2020 10:06:04



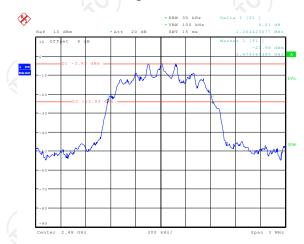
Lowest channel



Date: 11.SEP.2020 10:09:04 Middle channel



Highest channel



Date: 11.SEP.2020 10:10:38



6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	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.		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Hopping mode		
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. 		
Test Result:	PASS		

6.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021	
RF cable (9kHz-26.5GHz) TCT		RE-06	N/A	Sep. 11, 2021	
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.5.3. Test data

GFSK mode				
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result	
Lowest	1000.00	682.69	PASS	
Middle 1003.21		682.69	PASS	
Highest	1003.21	682.69	PASS	

Pi/4 DQPSK mode				
Test channel Carrier Frequencies Limit (kHz) Result				
Lowest 1003.21		842.95	PASS	
Middle 1000.00		842.95	PASS	
Highest	1000.00	842.95	PASS	

8DPSK mode				
Test channel Carrier Frequencies Limit (kHz) Result				
Lowest 1000.00		846.15	PASS	
Middle 1000.00		846.15	PASS	
Highest	1000.00	846.15	PASS	

Note: According to section 6.4

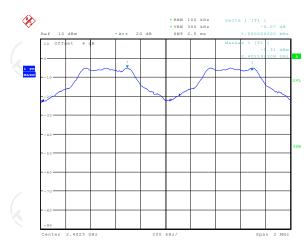
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	1024.04	682.69
π/4-DQPSK	1264.42	842.95
8DPSK	1269.23	846.15

Test plots as follows:



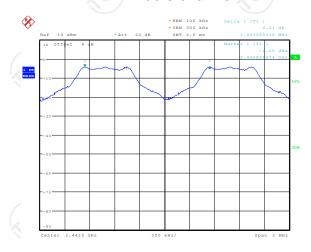


Lowest channel



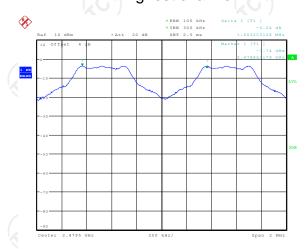
Date: 11.SEP.2020 10:11:45

Middle channel



Date: 11.SEP.2020 10:12:36

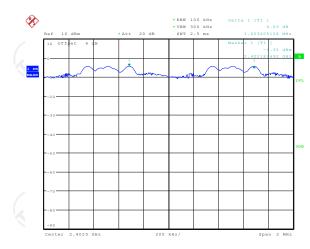
Highest channel



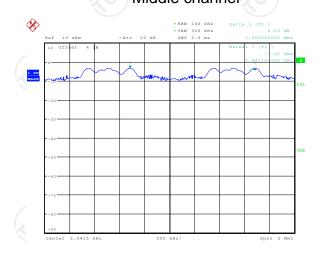
Date: 11.SEP.2020 10:13:28



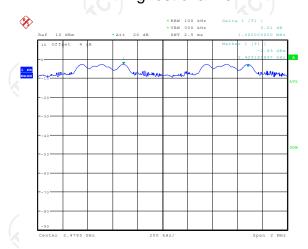
Lowest channel



Date: 11.SEP.2020 10:15:37 Middle channel



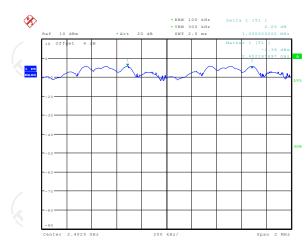
Highest channel



Date: 11.SEP.2020 10:19:13

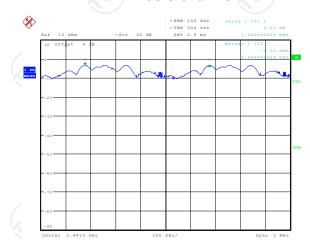


Lowest channel



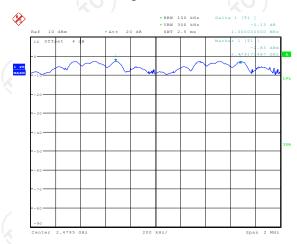
Date: 11.SEP.2020 10:20:17

Middle channel



ate: 11.SEP.2020 10:21:03

Highest channel



Date: 11.SEP.2020 10:21:50



6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report.
Test Result:	PASS
1 7° VI	

6.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021	
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.3. Test data

Report No.: TCT200810E005

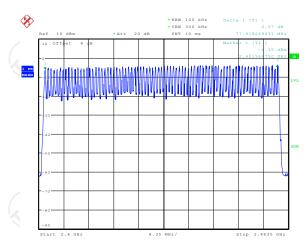
Mode	Hopping channel numbers	Limit	Result
GFSK, Pi/4DQPSK, 8DPSK	79	15	PASS

Test plots as follows:



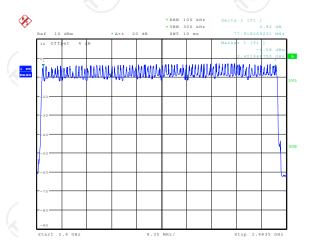


GFSK



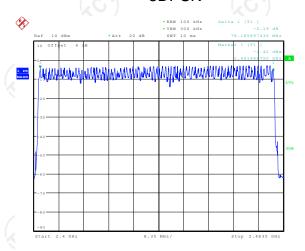
Date: 11.SEP.2020 10:23:40

Pi/4DQPSK



Date: 11.SEP.2020 10:25:22

8DPSK



Date: 11.SEP.2020 10:27:23



6.7. Dwell Time

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Hopping mode		
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 		
Test Result:	PASS		

6.7.2. Test Instruments

Equipment	Manufacturer	er Model Serial Number		Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

Mode	Packet	Hops Over Occupancy Time (hops)	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	320	0.409	0.131	0.4	PASS
GFSK	DH3	160	1.688	0.270	0.4	PASS
GFSK	DH5	106.67	2.946	0.314	0.4	PASS
Pi/4 DQPSK	2-DH1	320	0.420	0.134	0.4	PASS
Pi/4 DQPSK	2-DH3	160	1.681	0.269	0.4	PASS
Pi/4 DQPSK	2-DH5	106.67	2.954	0.315	0.4	PASS
8DPSK	3-DH1	320	0.425	0.136	0.4	PASS
8DPSK	3-DH3	160	1.702	0.272	0.4	PASS

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

106.67

For DH1, With channel hopping rate (1600/2/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/2/79) \times (0.4 \times 79) = 320$ hops

0.317

0.4

2.971

For DH3, With channel hopping rate (1600/4/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/4/79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

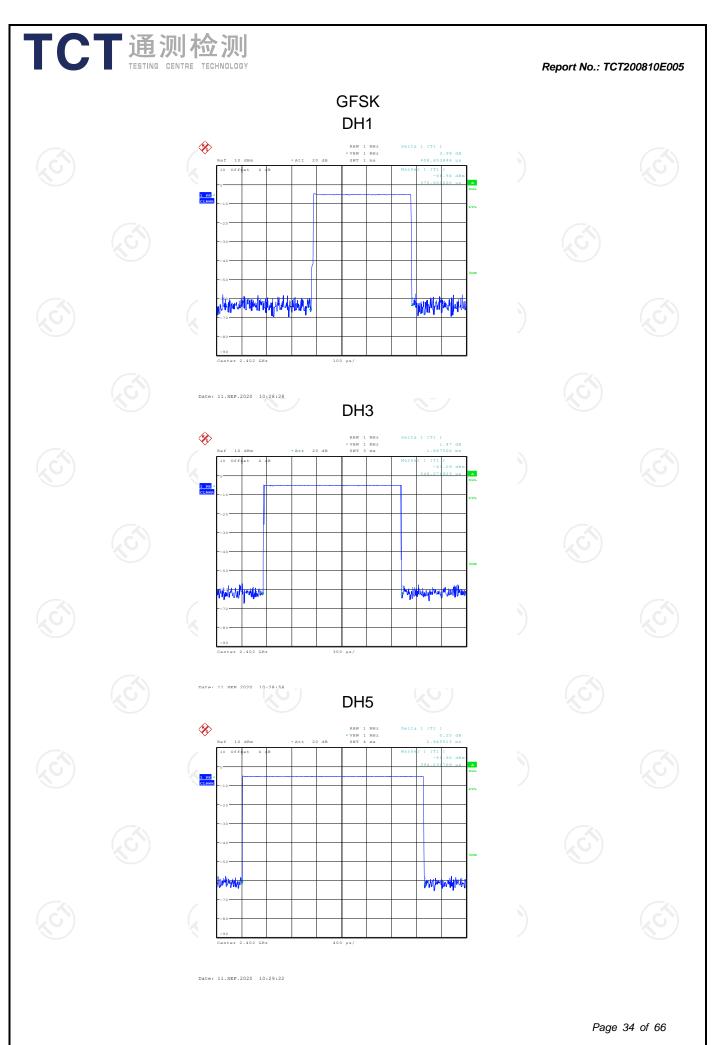
8DPSK

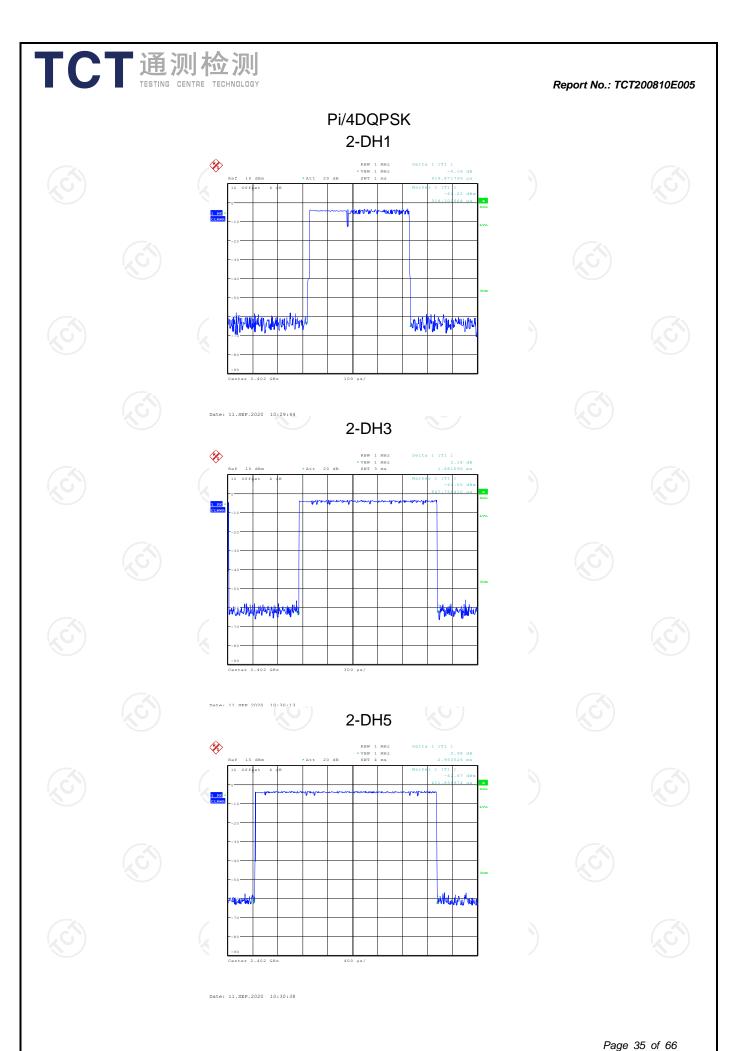
3-DH5

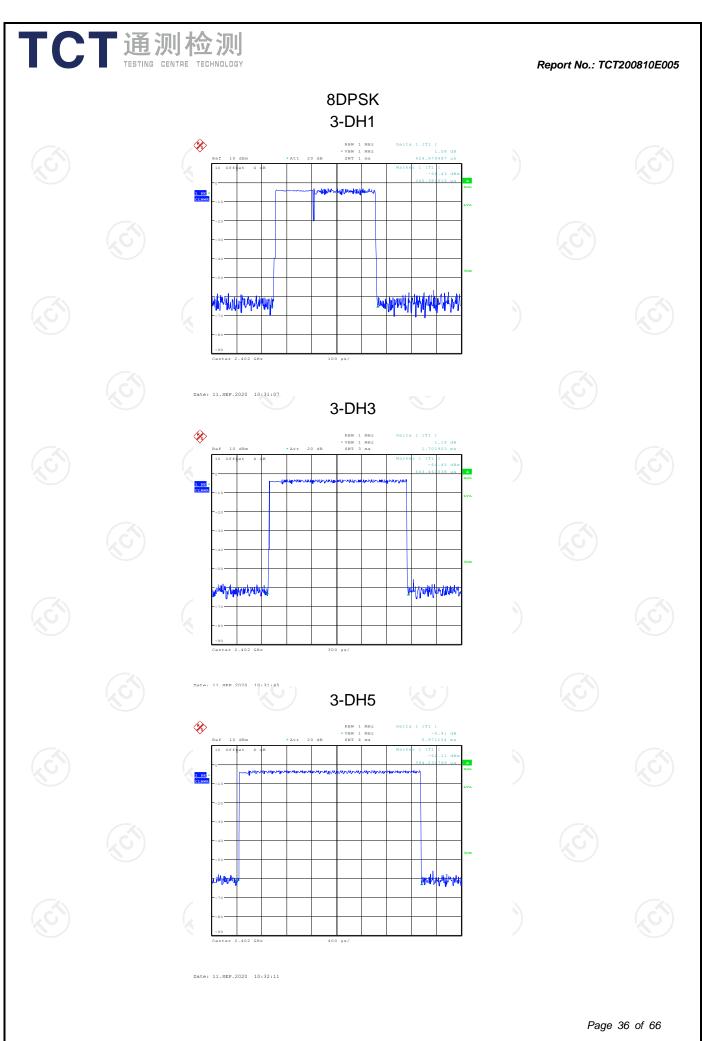


Report No.: TCT200810E005

PASS









6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement:

FCC Part15 C Section 15.247 (a)(1) requirement:

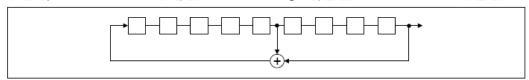
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

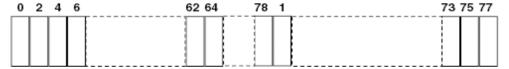
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.





6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
Test Result:	PASS

6.9.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020

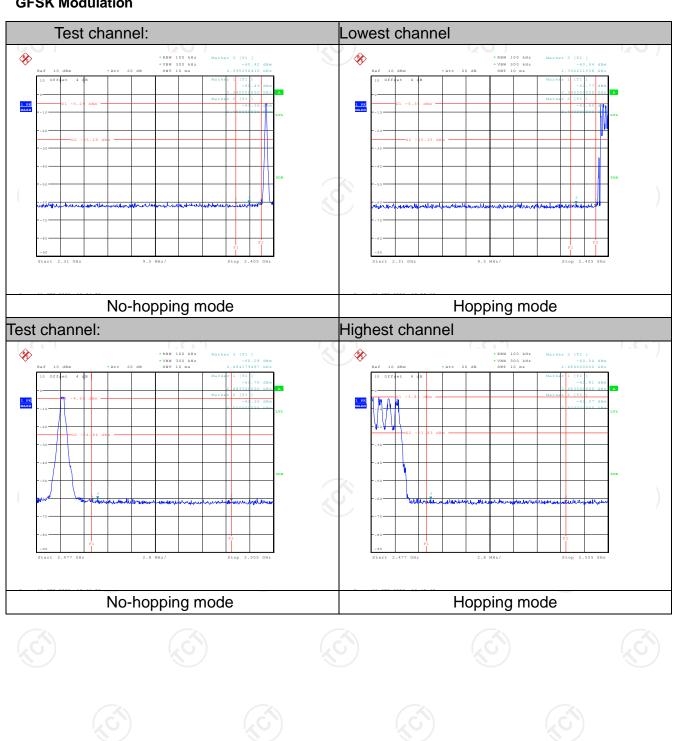
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

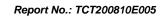


6.9.3. Test Data

Report No.: TCT200810E005

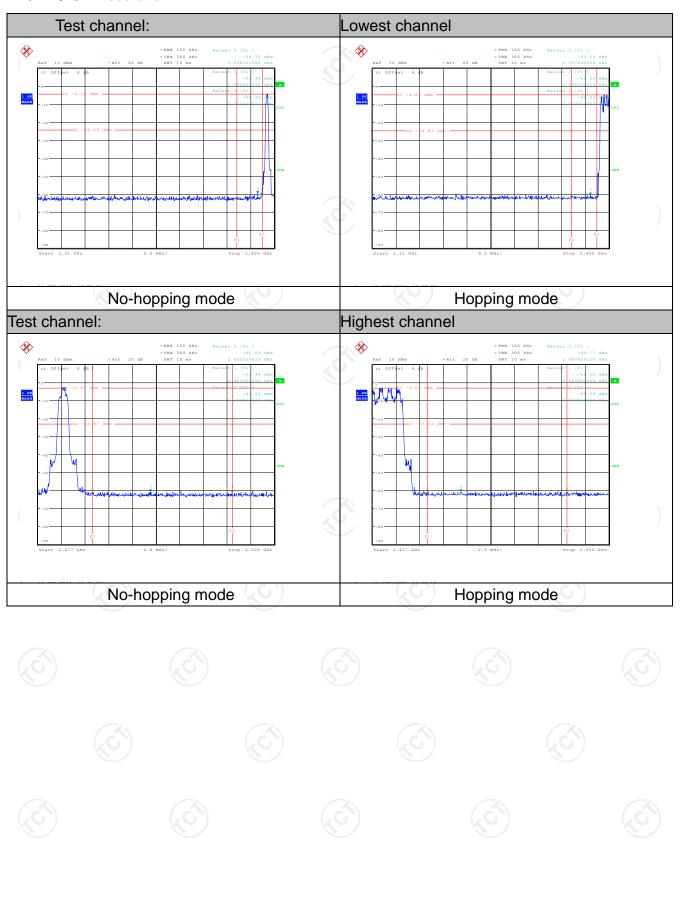
GFSK Modulation





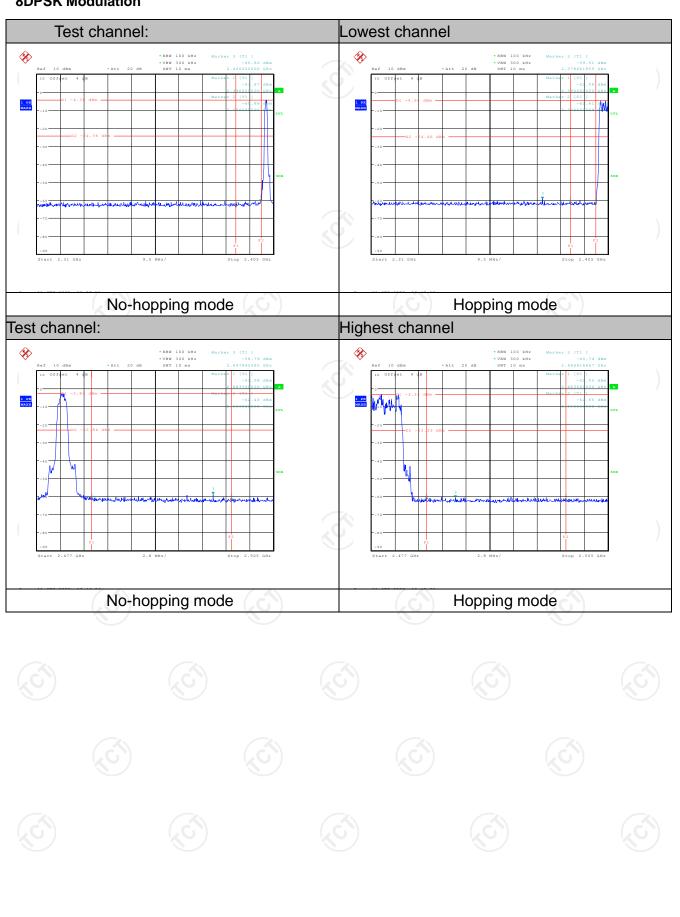


Pi/4DQPSK Modulation





8DPSK Modulation





6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

6.10.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021	
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ40	200061	Sep. 11, 2021	
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021	
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021	

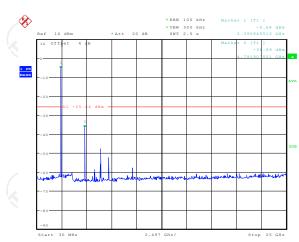
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.10.3. Test Data

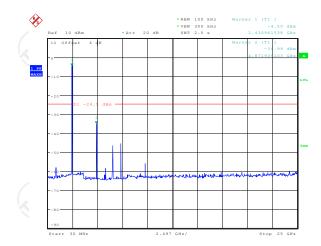
GFSK mode

Lowest Channel



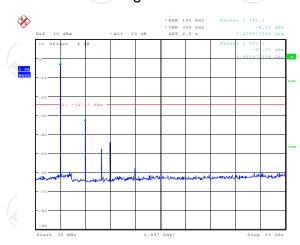


Middle Channel



Date: 11.SEP.2020 10:52:51

Highest Channel

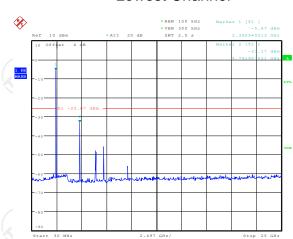


Date: 11.SEP.2020 10:53:5



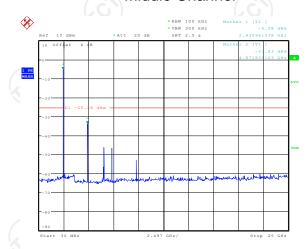
Pi/4DQPSK mode

Lowest Channel



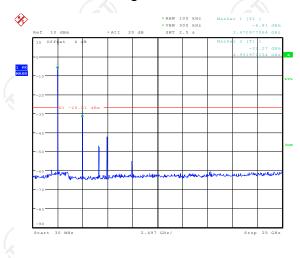
Date: 11.SEP.2020 10:55:52

Middle Channel



Date: 11.SEP.2020 10:57:55

Highest Channel

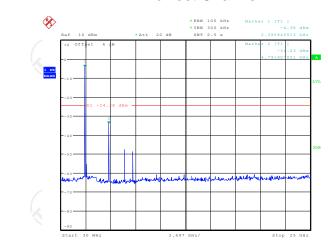


Date: 11.SEP.2020 10:59:33



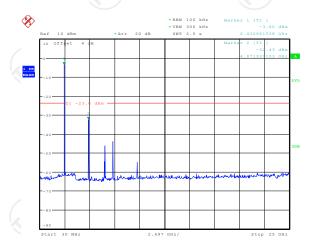
8DPSK mode

Lowest Channel

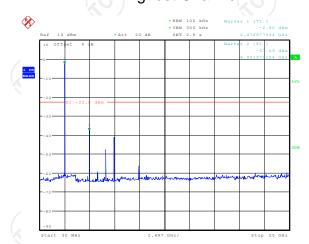




Middle Channel



Pate: 11.5EP.2020 11:01:42 Highest Channel



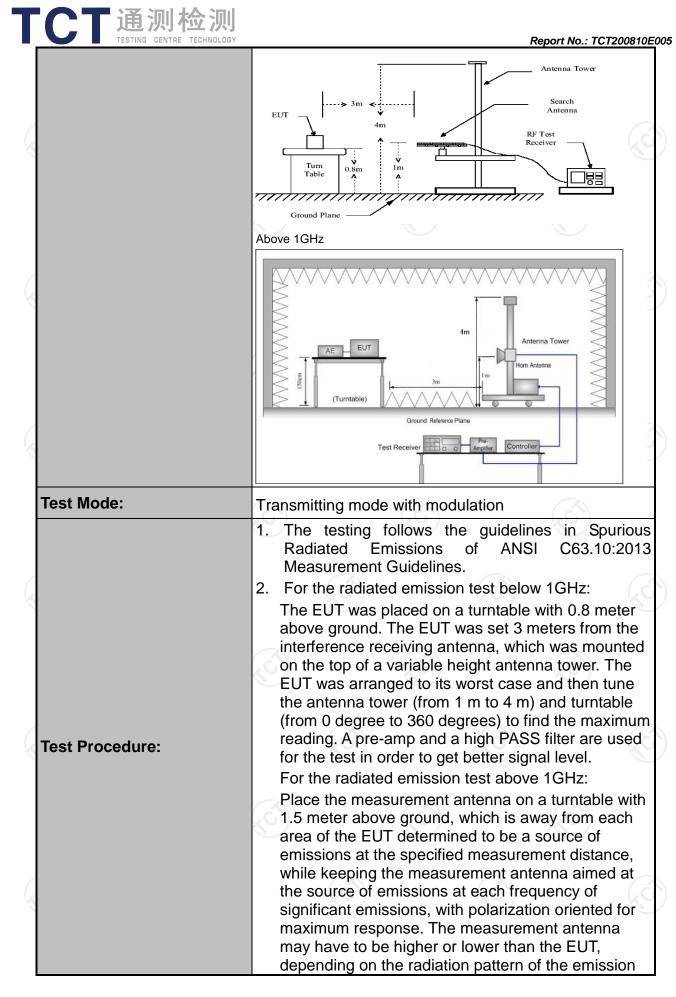
Date: 11.SEP.2020 11:03:14



6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

Test Requirement: Test Method:						
	ANSI C63.10	0:2013				
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m		9)		160)
Antenna Polarization:	Horizontal &	Vertical				
	Frequency 9kHz- 150kHz	Detector Quasi-peal		VBW 1kHz	Quas	Remark si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peal	k 9kHz	30kHz	Quas	si-peak Value
·	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quas	si-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
	715070 13112	Peak	1MHz	10Hz	Ave	erage Value
	Frequen	су	Field Stre	-		asurement
	0.009-0.4		(microvolts/meter)		Distance (meters)	
	0.490-1.7		2400/F(KHz) 24000/F(KHz)		300	
	1.705-3		30		30	
	30-88		100		3	
	88-216		150		3	
Limit:	216-96	0	200		3	
	Above 9	60	500	ı		3
	Frequency		d Strength ovolts/meter)	Measure Distan (mete	ce	Detector
	Above 1GHz	,	500	3		Average
	7,5000 10112		5000			Peak
	For radiated emis	ssions below	30MHz		(SC)	
	Di	stance = 3m			Compu	iter
	+					_ _
		1() _	Pre -	Amplifier	
Test setup:	C.Sm EUT	Turn table	1m			
	C.SIII	Groun	d Plane		Receiver	
	30MHz to 1GHz					



T通测检测		
TESTING CENTRE TECHNOLOGY		Report No.: TCT200810E005
	rece mea max ante rest abo	staying aimed at the emission source for eiving the maximum signal. The final asurement antenna elevation shall be that which simizes the emissions. The measurement enna elevation for maximum emissions shall be ricted to a range of heights of from 1 m to 4 m we the ground or reference ground plane. It to the maximum power setting and enable the T transmit continuously.
	4. Uso (1)	e the following spectrum analyzer settings: Span shall wide enough to fully capture the emission being measured; Set RBW=120 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥RBW;
	(3)	Sweep = auto; Detector function = peak; Trace = max hold for peak 3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds
	(i)	On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)
		Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
Test results:	PASS	







6.11.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	TCT	RE-high-04	N/A	Sep. 02, 2021
Line-8	тст	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

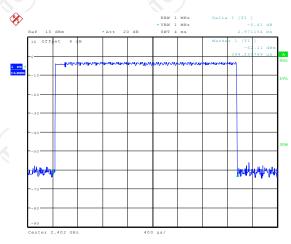




6.11.3. Test Data

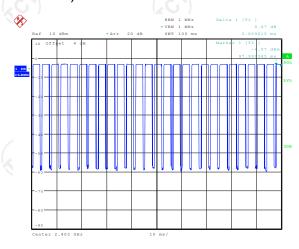
Duty cycle correction factor for average measurement

3DH5 on time (One Pulse) Plot on Channel 78



Date: 11.SEP.2020 10:32:11

3DH5 on time (Count Pulses) Plot on Channel 78



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = (2.971*26+2.010)/100= 0.7926
- 2. Worst case Duty cycle correction factor = 20*log (Duty cycle) = -2.02dB
- 3. 3DH5 has the highest duty cycle worst case and is reported.

Date: 11.SEP.2020 10:32:48

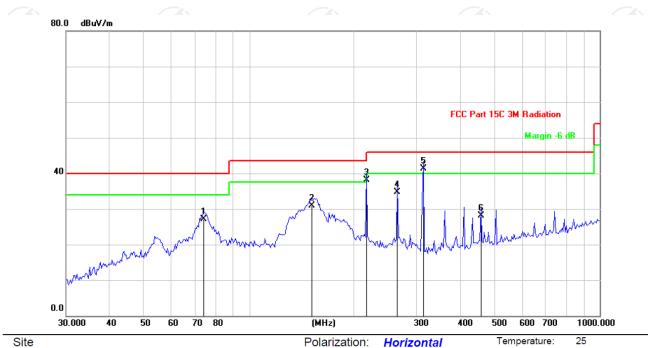
4. The average levels were calculated from the peak level corrected with duty cycle correction factor (-2.02dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.



Please refer to following diagram for individual

Below 1GHz

Horizontal:



Limit: FCC Part 15C 3M Radiation

Power: AC 120V/60Hz

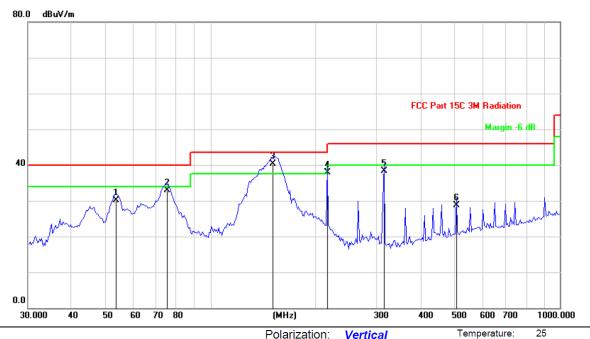
Humidity: 55 %

No. I	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∨	dB	dBuV/m	dB/m	dB	Detector
1	74.2696	43.13	-16.09	27.04	40.00	-12.96	QP
2	151.0252	47.12	-16.20	30.92	43.50	-12.58	QP
3	216.1197	51.57	-13.55	38.02	46.00	-7.98	QP
4	264.9709	46.87	-12.07	34.80	46.00	-11.20	QP
5	* 313.6482	51.87	-10.58	41.29	46.00	-4.71	QP
6	458.3987	36.29	-8.17	28.12	46.00	-17.88	QP





Vertical:



Limit: FCC Part 15C 3M Radiation

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB	dBuV/m	dB/m	dB	Detector
1		53.7559	40.91	-10.90	30.01	40.00	-9.99	QP
2		75.3208	49.17	-16.21	32.96	40.00	-7.04	QP
3	* 1	51.0252	56.55	-16.20	40.35	43.50	-3.15	QP
4	2	216.1197	51.51	-13.55	37.96	46.00	-8.04	QP
5	3	313.6482	48.96	-10.58	38.38	46.00	-7.62	QP
6	5	05.7891	36.03	-7.35	28.68	46.00	-17.32	QP

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Highest channel and 8DPSK) was submitted only.
- 3. Freq. = Emission frequency in MHz

Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

Limit $(dB\mu V/m) = Limit$ stated in standard

 $Margin (dB) = Measurement (dB\mu V/m) - Limits (dB\mu V/m)$

Any value more than 10dB below limit have not been specifically reported

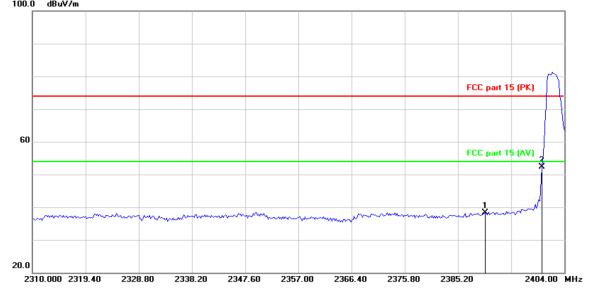
^{*} is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



Power:

Limit: FCC part 15 (PK)

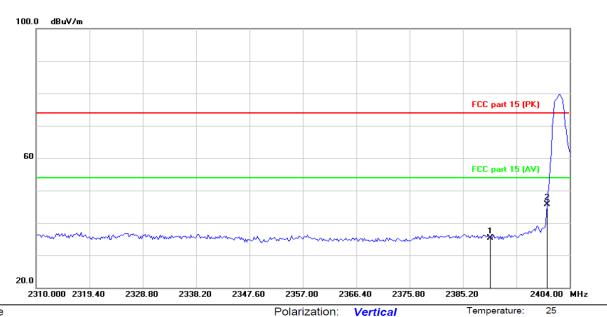
Polarization: Horizontal

25 Temperature:

Humidity: 55 %

Vertical:

Site



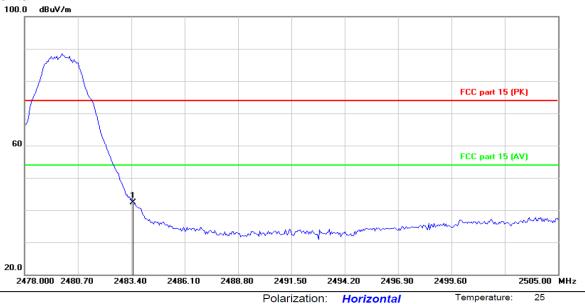
Humidity: 55 % Limit: FCC part 15 (PK) Power:

Frequency (MHz)	Ant. Pol. H/V	Peak (dBµV/m)	Duty cycle factor (dB/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	PK Margin (dB)	AVG Margin (dB)
2390	Ι	38.27	-2.02	36.25	74	54	-35.73	-17.75
2390	V	35.39	-2.02	33.37	74	54	-38.61	-20.63
2400	Η	52.30	-2.02	50.28	74	54	-21.70	-3.72
2400	V	45.69	-2.02	43.67	74	54	-28.31	-10.33



Highest channel 2480:

Horizontal:



Polarization:

Power:

Horizontal

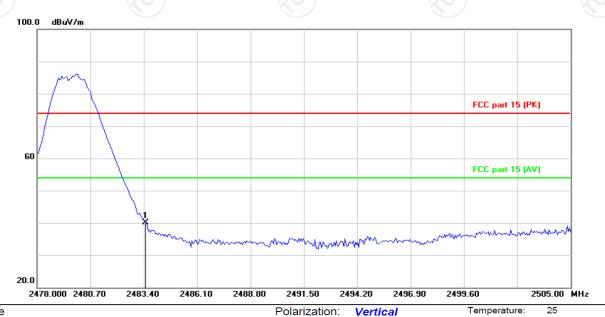
Humidity:

55 %

Vertical:

Limit: FCC part 15 (PK)

Site



Site Humidity: 55 % Limit: FCC part 15 (PK) Power:

	Frequency (MHz)	Ant. Pol. H/V	Peak (dBµV/m)	Duty cycle factor (dB/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	PK Margin (dB)	AVG Margin (dB)
	2483.5	Ι	42.35	-2.02	40.33	74	54	-31.65	-13.67
1	2483.5	V	40.19	-2.02	38.17	74	54	-33.81	-15.83

Note: Measurements were conducted in all three modulation (GFSK, Pi/4DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.



Above 1GHz

Modulation	Modulation Type: 8DPSK									
Low channel: 2402 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	l AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4804	Н	45.83		0.66	46.49		74	54	-7.51	
7206	Н	35.51		9.5	45.01		74	54	-8.99	
	H							7-74		
	(C)		(20)	*)		.C'\		(,G)		
4804	V	44.67		0.66	45.33	<u></u>	74	54	-8.67	
7206	V	34.38	-	9.5	43.88		74	54	-10.12	
	V									

				/					
Middle cha	nnel: 2441	MHz	(20)			(201)			KC
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4882	H	44.92		0.99	45.91		74	54	-8.09
7323	(OH)	34.81	-120	9.87	44.68	O J.	74	54	-9.32
	Ĥ					<u></u>		<u></u>	
4882	V	43.53		0.99	44.52		74	54	-9.48
7323	V	34.46		9.87	44.33		74	54	-9.67
)	V)				

High channel: 2480 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4960	H	46.88		1.33	48.21		74	54	-5.79	
7440	Н	37.59		10.22	47.81		74	54	-6.19	
	Н	<i></i> /-			2		<u></u>			
(C)		(.c)		(, 0			(.G)		(.C)	
4960	V	46.74		1.33	48.07		74	54	-5.93	
7440	V	36.66		10.22	46.88		74	54	-7.12	
	V									

Note:

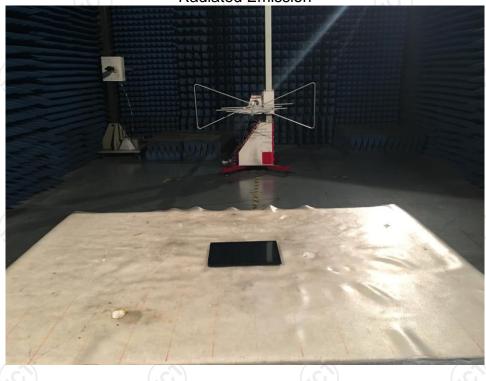
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.
- 7. All the restriction bands are compliance with the limit of 15.209.





Appendix A: Photographs of Test Setup Product: Tablet

Product: Tablet Model: K106 Radiated Emission







Conducted Emission





















































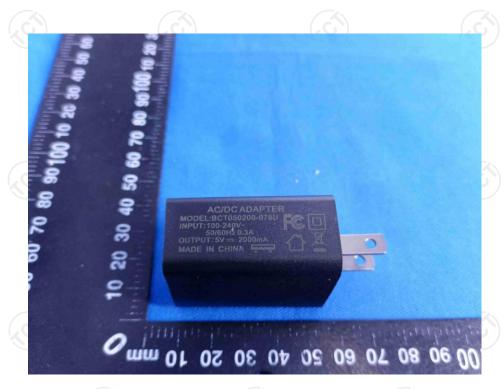




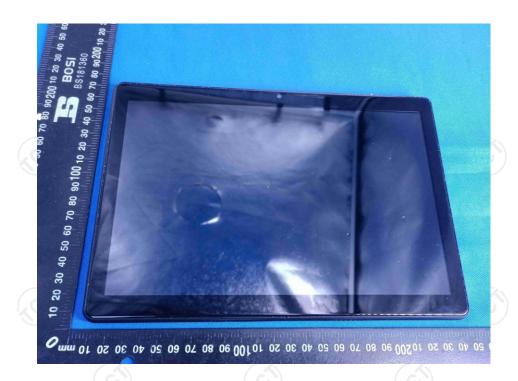
Appendix B: Photographs of EUT

Product: Tablet Model: K106 External Photos



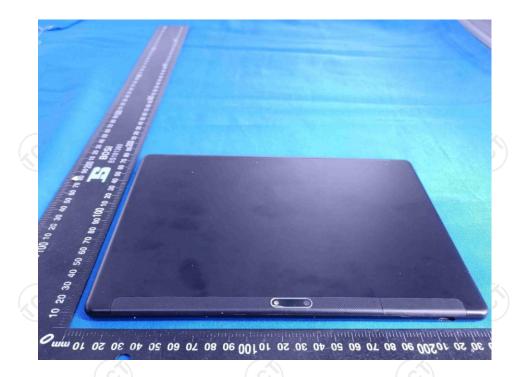


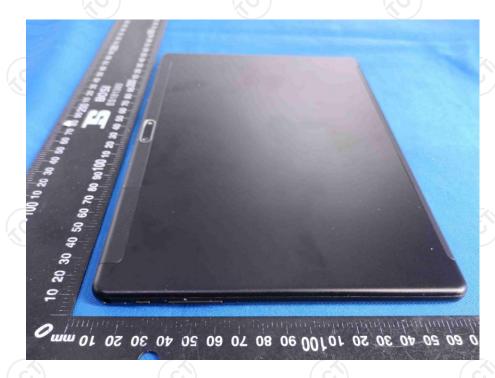




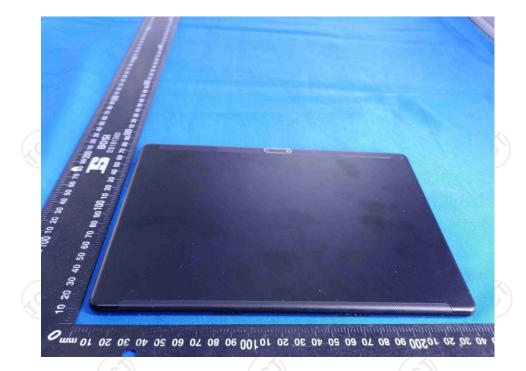


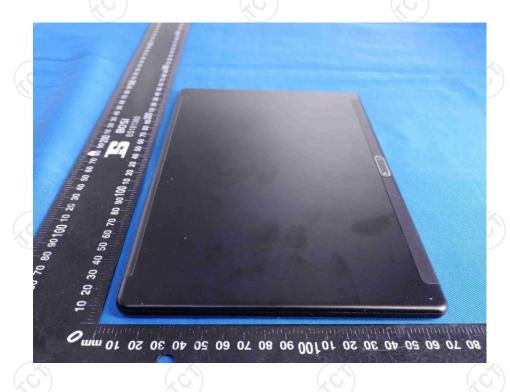














Product: Tablet Model: K106 Internal Photos

