

Report No: JYTSZE201010102

FCC REPORT (Bluetooth)

Applicant:	b mobile HK Limited		
Address of Applicant:	Flat 18, 14/F Block 1, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong		
Equipment Under Test (E	EUT)		
Product Name:	Tablet		
Model No.:	Т70		
Trade mark:	Bmobile		
FCC ID:	ZSW-30-104		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	28 Oct., 2020		
Date of Test:	29 Oct., to 16 Nov., 2020		
Date of report issued:	17 Nov., 2020		
Test Result:	PASS *		

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

Authorized Signature:



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

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

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2 Version

Version No.	Date	Description
00	17 Nov., 2020	Original

YT Yang Test Engineer

Date: 17 Nov., 2020

Date:

Tested by:

Winner Thang

Reviewed by:

Project Engineer

Project No.: JYTSZE2010101

17 Nov., 2020



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4 Test Summary

Test Items	Section in CFR 47	Result			
Antenna Requirement	15.203 & 15.247 (b)	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			
Spurious Emission	15.205 & 15.209	Pass			
Band Edge	15.247(d)	Pass			
Remark: 1. Pass: The EUT complies with the essential requirements in the standard.					

i ne 2.

N/A: Not Applicable.

The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by З. the customer).

Test Method:	ANSI C63.10-2013
rest wethod.	KDB 558074 D01 15.247 Meas Guidance v05r02



5 General Information

5.1 Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18, 14/F Block 1, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong
Manufacturer:	b mobile HK Limited
Address:	Flat 18, 14/F Block 1, Golden Industrial Building, 16-26 Kwai Tak Street, Kwai Chung, New Territories, Hong Kong

5.2 General Description of E.U.T.

Product Name:	Tablet		
Model No.:	Т70		
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:	Internal Antenna		
Antenna gain:	2 dBi		
Power supply:	Rechargeable Li-ion Battery DC3.7V, 2000mAh		
AC adapter:	Input: AC100-240V, 50/60Hz, 0.25A		
	Output: DC 5.0V, 1.5A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

Operation	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	
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz	
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz	
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz	
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz	
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz	
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz	
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz	
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz	
19 2421MHz 39 2441MHz 59 2461MHz								
Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.								



5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test Modes:				
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.			
Hopping mode:	Keep the EUT in hopping mode.			
Remark	GFSK (1 Mbps) is the worst case mode.			
Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane				

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (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 are shown in Test Results of the following pages.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

• ISED – CAB identifier.: CN0021

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

• A2LA - Registration No.: 4346.01

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

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: <u>http://www.ccis-cb.com</u>



5.9 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-21-2020	07-20-2021	
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-20-2020	06-19-2021	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b)	
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021	
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A	
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0			

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
		inouci ito.		(mm-dd-yy)	(mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	07-17-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement:	FCC Part 15 C Section 15.203 & 247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohil 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited. over limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this inas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The Bluetooth antenna is an the antenna is 2 dBi.	Internal antenna which permanently attached, and the best case gain of



6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.	207				
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 kHz	z, Sweep time=auto				
Limit:	Frequency range (MHz) Limit (dBuV)					
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30 * Decreases with the logari	60	50			
Test setup:	Reference Pl					
Toot areachura	AUX Equipment Test table/Insulation plane Remark: E.U.T. E.U.T. Remark: E.U.T. E.U.T. E.U.T. E.U.T. E.U.T. E.U.T. E.U.T. E.U.T. Test table/Insulation plane Remark: E.U.T. E.U.T. E.U.T. E.U.T. Test table height=0.8m					
Test procedure:	 50ohm/50uH coupling in The peripheral devices a LISN that provides a 500 termination. (Please reference) Both sides of A.C. line interference. In order to positions of equipment 	tion network (L.I.S.N.). Th npedance for the measuri	is provides a ng equipment. main power through a lance with 500hm the test setup and n conducted sion, the relative ables must be changed			
Test Instruments:	Refer to section 5.9 for det	ails				
Test mode:	Hopping mode					
Test results:	Pass					

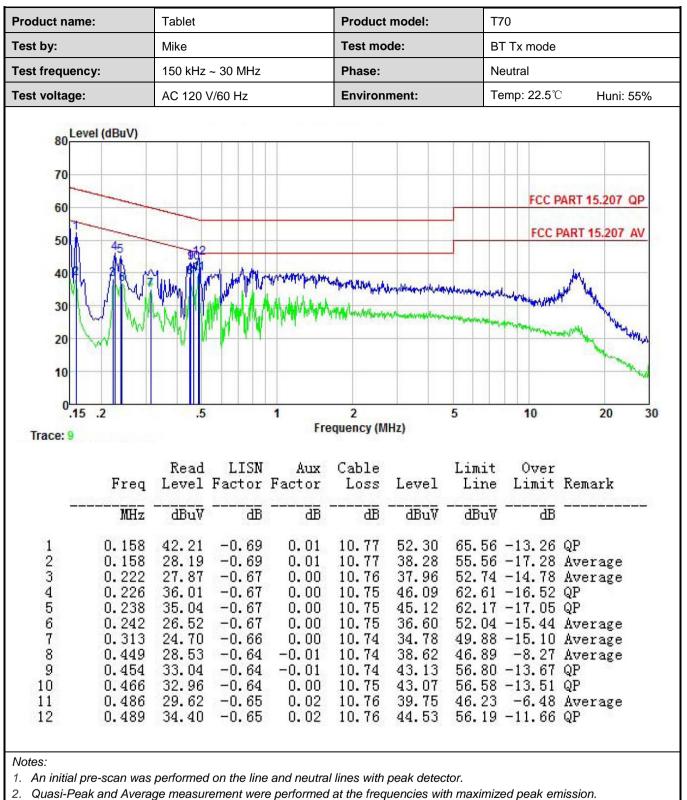


Measurement Data:

oduct name:	Tablet		Produ	ict model:		T70 BT Tx mode			
st by:	Mike		Test r	node:					
st frequency:	150 kHz ~ 30 MH:	Z	Phase	:		Line			
st voltage:	AC 120 V/60 Hz		Envir	onment:		Temp: 22	2.5℃ Huni: 55%		
80 Level (dBuV) 70 60 50 1 40 30 20 10 0.15 .2	5				5		C PART 15.207 QP C PART 15.207 AV 12 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
.10 .2		N.	2		5	10	20 J		
Trace: 11			equency (I	MHz)	÷ • • • • •	~			
	Read LISN Level Factor	Aux	equency() Cable Loss	MHz) Level	Limit Line	Over Limit	Remark		
Trace: 11		Aux	Cable				Remark		

3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.





3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=2MHz, VBW=6MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass

6.3 Conducted Output Power



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Receiver setup:	DH1: RBW=15 kHz, VBW=47 kHz, detector=Peak 2DH1&3DH: RBW=20 kHz, VBW=62 kHz, detector=Peak
Limit:	N/A
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass



6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)							
Receiver setup:	RBW=300 kHz, VBW=1 MHz, detector=Peak							
Limit:	 a) 0.025MHz or the 20dB bandwidth (whichever is greater) b) 0.025MHz or two-thirds of the 20dB bandwidth (whichever is greater) 							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 5.9 for details							
Test mode:	Hopping mode							
Test results:	Pass							



6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Center Frequency=2441MHz, Span= 100MHz, Detector=Peak
Limit:	15 channels
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Hopping mode
Test results:	Pass

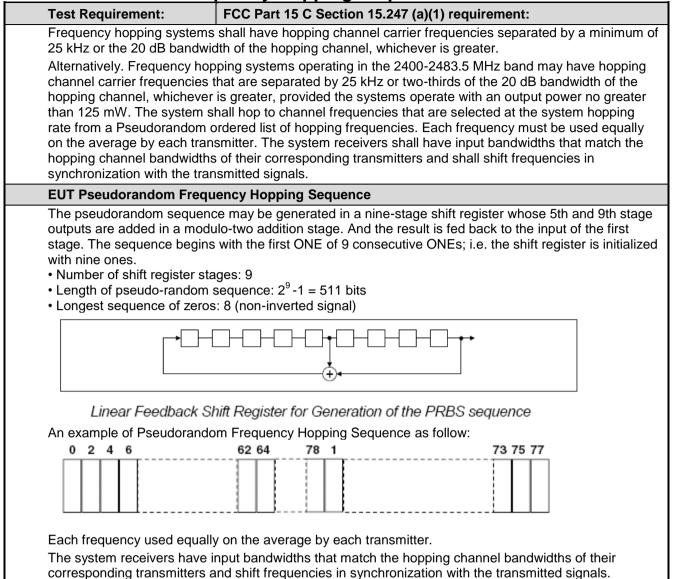


6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Hopping mode
Test results:	Pass



6.8 Pseudorandom Frequency Hopping Sequence





6.9 Band Edge

6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass



6.9.2 Radiated Emission Method

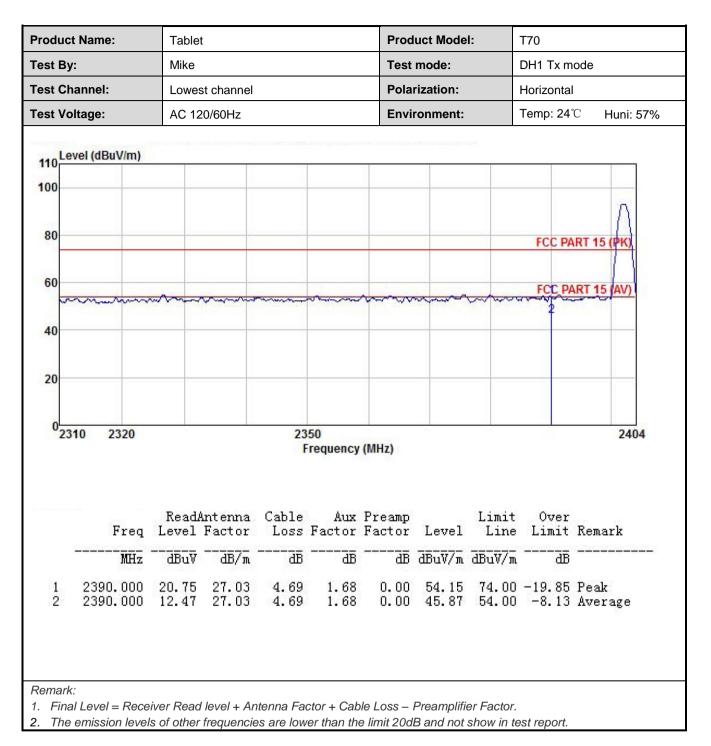
Test Requirement:	FCC Part 15 C	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	2310 MHz to 23	90 MHz and	2483.	5 MHz to 2	500 M	Hz		
Test Distance:	3m							
Receiver setup:	Frequency	Detector		RBW	V	BW	Remark	
	Above 1GHz	Peak		1MHz	31	ИНz	Peak Value	
	Above IGH2	RMS		1MHz	31	ИНz	Average Value	
Limit:	Frequenc	cy L	.imit (o	dBuV/m @3	3m)		Remark	
	Above 1G	H7		54.00		Av	/erage Value	
	7,6070 10			74.00		F	Peak Value	
Test setup:	AE unggi	EUT table) Ground Test Receiver	3m Auforence Plan		tenna Towe			
Test Procedure:	 determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremen 4. For each sus and then the the rota table maximum rea 5. The test-rece Bandwidth w 6. If the emission limit specified EUT would b margin would 	B meter cambo e position of t s set 3 meters ch was moun height is vari- termine the m d vertical pola t. spected emiss antenna was e was turned f ading. eiver system v ith Maximum on level of the d, then testing	er. The hig s away ted or ed fro aximu arizatio arizatio arizatio tunec rom 0 vas se Hold I EUT g could therw one b	te table was ghest radiati y from the in n the top of om one meter um value of ons of the a he EUT was d to heights d to heights d degrees to et to Peak E Mode. in peak mo d be stoppe vise the emis by one using	ion. nterfe a vari er to fo the fi antenr s arran from 0 360 o Detect de wa dand ssions g peal	ed 360 of rence-re able-he our meta eld streina are s nged to 1 meter degrees Functions 10dB the pea s that dia k, quasi	degrees to ecceiving sight antenna ers above the ngth. Both et to make the its worst case to 4 meters and to find the on and Specified lower than the ak values of the d not have 10dB i-peak or	
Test Instruments:	Refer to section	5.9 for detail	s					
Test mode:	Non-hopping m	ode						
Test results:	Passed							



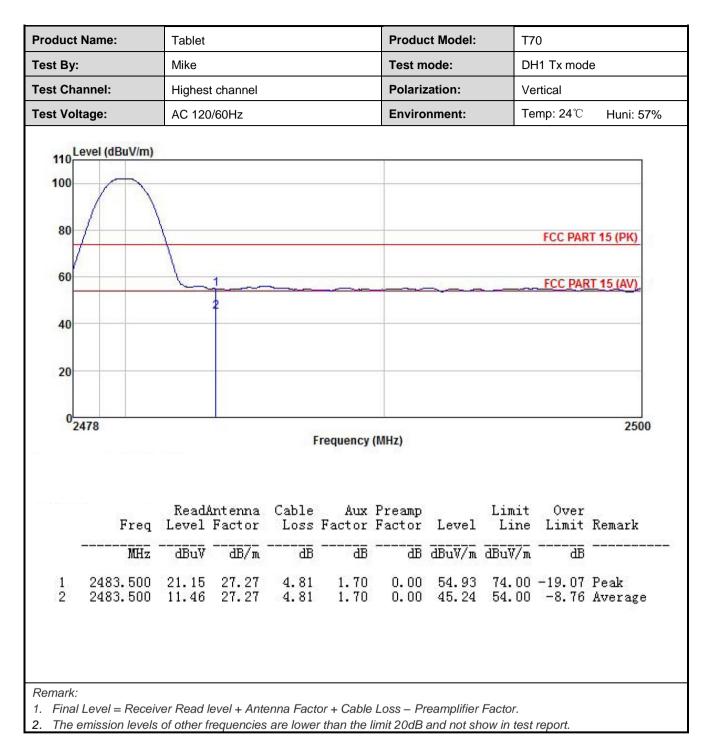
GFSK Mode:

Product Name:		Tablet					uct Mode	l:	Т70		
est By:		Mike Lowest channel				Test	mode:		DH1 Tx mode		
est Cha	nnel:					Pola	rization:		Vertical		
est Volt	age:	AC 12	0/60Hz			Envi	ronment:		Temp: 24	°C Huni	57%
Lei	vel (dBuV/m)										
100										1	1
80											1
00									FCC F	PART 15 (PI	()
60									FOR	PART 15 (A	
~	m	m	mound	ter men	*****	mont		* 60- -		PART 15 A	<u>v)</u>
40											
20								_			
0231	10 2320				350		-			2	2404
					Frequenc	y (MHz)					
	Freq		Intenna Factor			Preamp Factor		Limit Line	Over Limit	Remark	
2	MHz						dBuV/m				
24			- 18 S. C. C.							Deal	
1 2	2390.000 2390.000	20.48 11.28		4.69 4.69	1.68 1.68		53.88 44.68			Average	













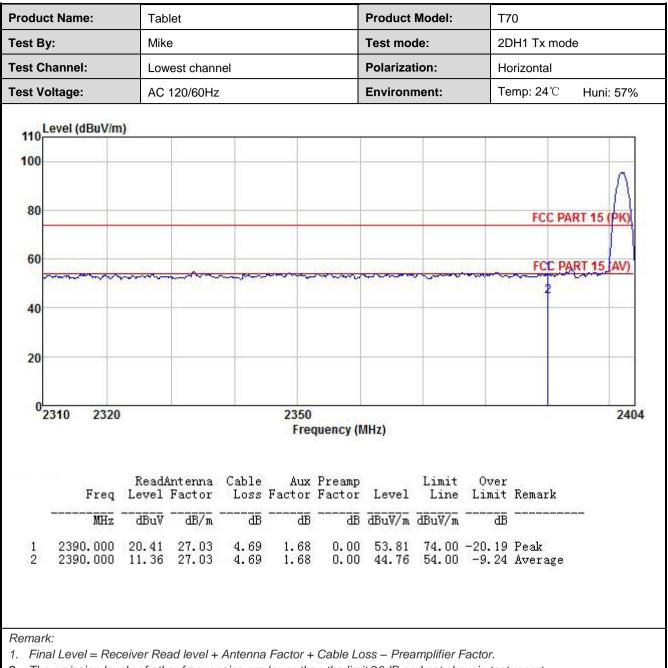
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



$\pi/4$ -DQPSK mode

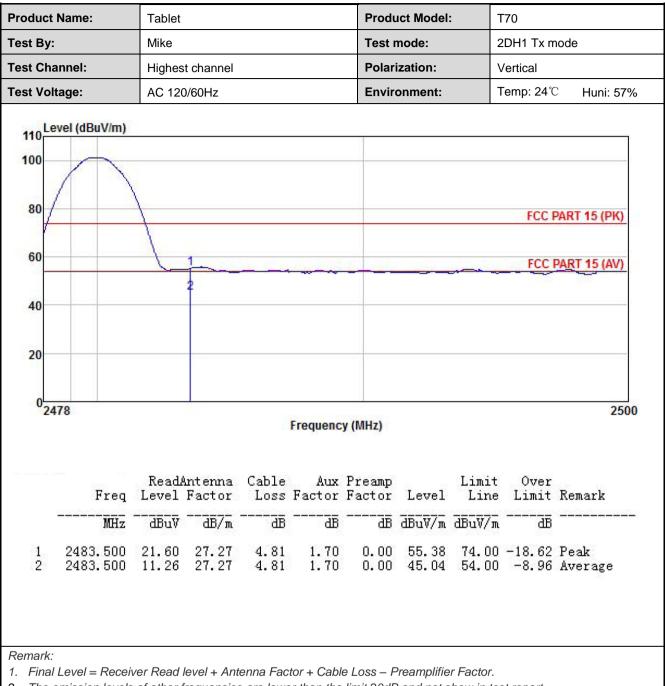
Product Name:		Tablet					uct Mode	l:	Т70					
est By	/:	Mike				Test	mode:		2DH1 Tx mode		2DH1 Tx mode			
est Ch	nannel:	Lowes	t channel			Pola	rization:		Vertical					
est Vo	oltage:	AC 12	0/60Hz			Envi	ronment:		Temp: 24°	C Huni: 57%				
14	evel (dBuV/m)					·								
Contraction of the	ever (aba viiii)													
100										Δ				
										$\left\{ \Lambda \right\}$				
80									FCC	PART 15 (PK)				
60	man	m	and mark	mon.		Monor	non	man	FCC	PART 15 (AV)				
								Constant of the	2					
40														
20														
0														
23	310 2320			2	2350 Frequence					2404				
					Trequein	.y (mi12)								
	-	ReadA	ntenna	Cable	Aux	Preamp	12 23	Limit	Over					
	and the second second					Factor				Kemark				
	MHz	dBuV		dB	dB	dB	dBu∛/m	dBuV/m	B					
$\frac{1}{2}$	2390.000 2390.000	19.50 12.46	27.03 27.03	4.69 4.69	1.68 1.68	0.00	52.90	74.00	-21.10	Peak Average				
2	2390.000	12.40	21.05	4.05	1.00	0.00	40.00	04.00	-0.14	Average				
Remark	<i>(:</i>													
	al Level = Recei e emission level								et report					
			in oqueniole						scropon.					





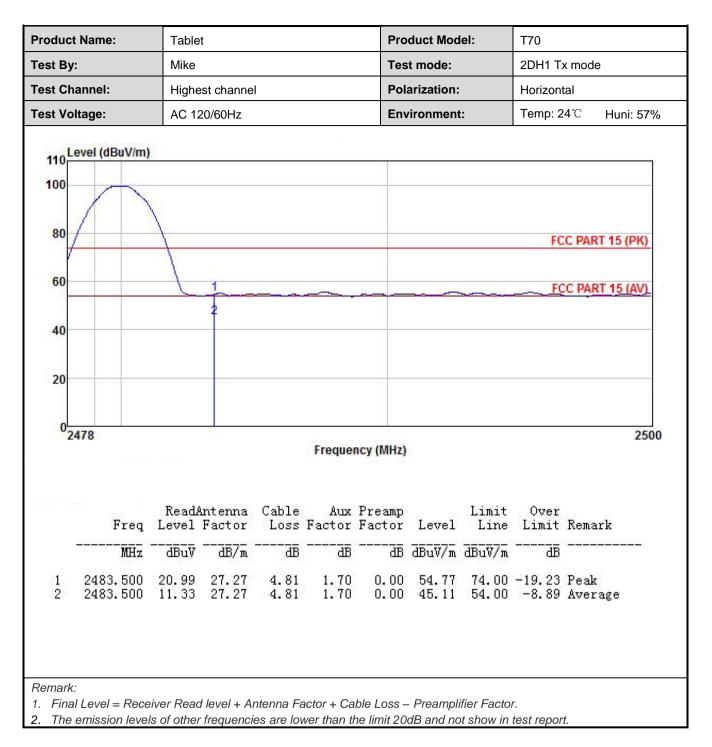
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



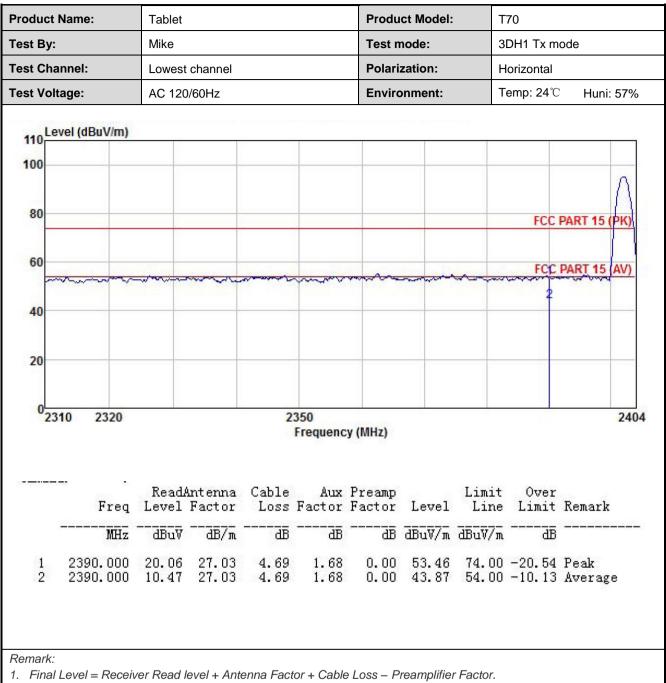




8DPSK mode

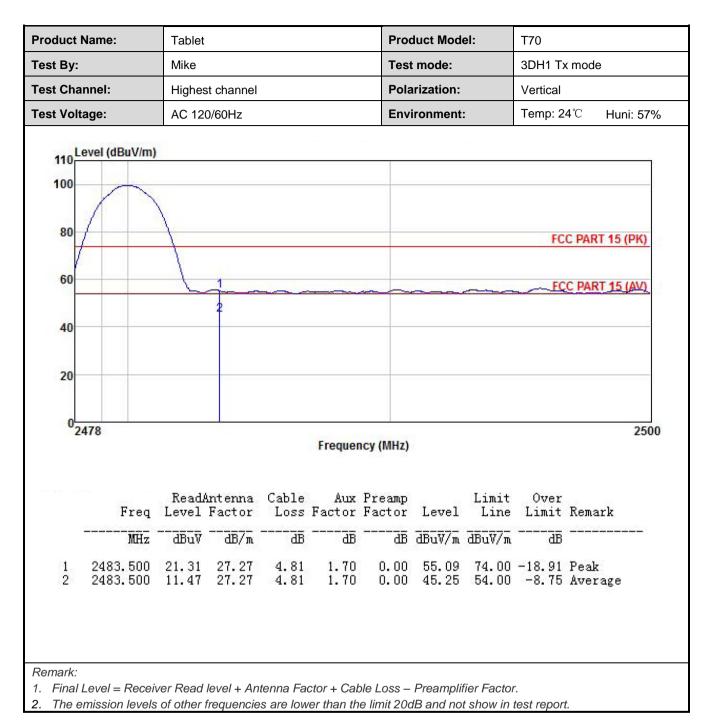
Product Name: Fest By:		Tablet					ct Model:	: Т	T70			
		Mike				Test n	node:	3	3DH1 Tx mode			
est Cha	annel:	Lowest channel				Polari	zation:	V	Vertical			
est Volt	tage:	AC 120/60Hz					Environment:		emp: 24°C	Huni: 57%		
Lo	vol (dBu)//m)											
110 Le	vel (dBuV/m)											
100										Δ		
										()		
80		Ĵ.							FCC	PART 15 (PK)		
60	mun	man	man	man	v		m	man	FCC	PART 15 (AV)		
		1996							2			
40												
20												
23	10 2320				350 Frequenc					240		
					ricquene	. j (mi i z)						
	Freq	ReadA Level	Intenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line		Remark		
	 MHz	dBuV		<u>a</u> B	 BB		dBuV/m		<u>d</u> B			
1	2390.000	19.72	27.03	4.69			53.12	99 - 1808 - 1988	-20.88	Peak		
2	2390.000	10.46	27.03	4.69	1.68					Average		
morte												
emark: Final	Level = Receiv	er Read I	evel + Ante	enna Fac	tor + Cable	e Loss – P	reamplifie	r Factor.				



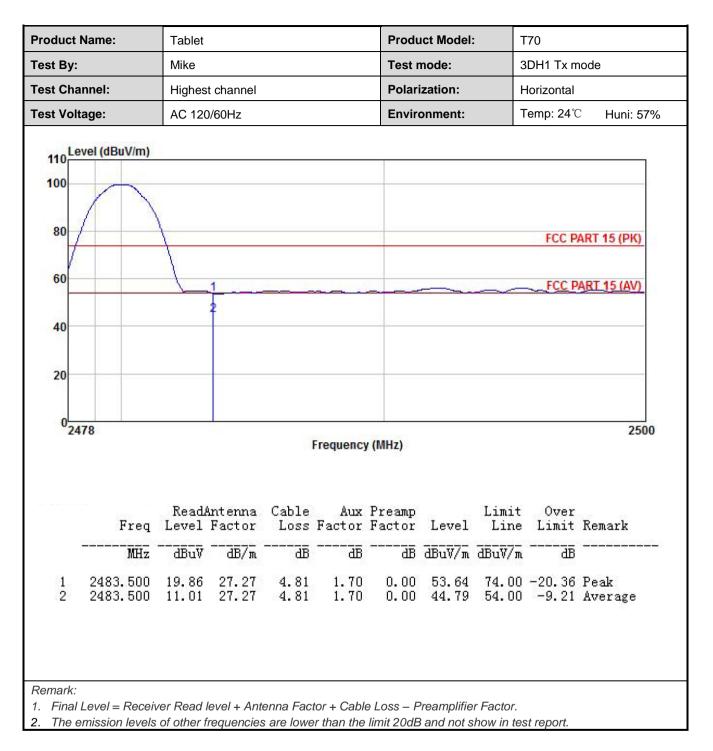


2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.











6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Non-hopping mode						
Test results:	Pass						



6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C S	Section 15.2	209						
Test Frequency Range:	9 kHz to 25 GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector RBW VB		VBW	/	Remark			
	30MHz-1GHz	Quasi-pe	ak	120kHz	300kH	łz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3MH:	z	Peak Value		
	Above IGHZ	RMS		1MHz 3MHz		z	Average Value		
Limit:	Frequenc	;y	Limit (dBuV/m @3m)			Remark			
	30MHz-88N	/Hz	40.0			Quasi-peak Value			
	88MHz-216	MHz	43.5			Quasi-peak Value			
	216MHz-960	MHz	46.0			Quasi-peak Value			
	960MHz-10	GHz		54.0		(Quasi-peak Value		
	Above 1G	⊔ →		54.0			Average Value		
	Above TG			74.0			Peak Value		
Test Procedure:	Above 1GHz	arm 0.8m Able A d Plane	4m	arm Ground Reference Plane ecceiver	Pre-	RF T Recei	Tower		
Test Procedure:	was rotated 3 radiation. 2. The EUT was	1GHz) abov 60 degrees s set 3 mete	ve th s to c ers a	te ground at determine the way from the	a 3 mete e positio e interfer	er ch n of rence	amber. The table the highest		

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	tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.					
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.					
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Non-hopping mode					
Test results:	Pass					
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report. 					



Measurement Data (worst case):

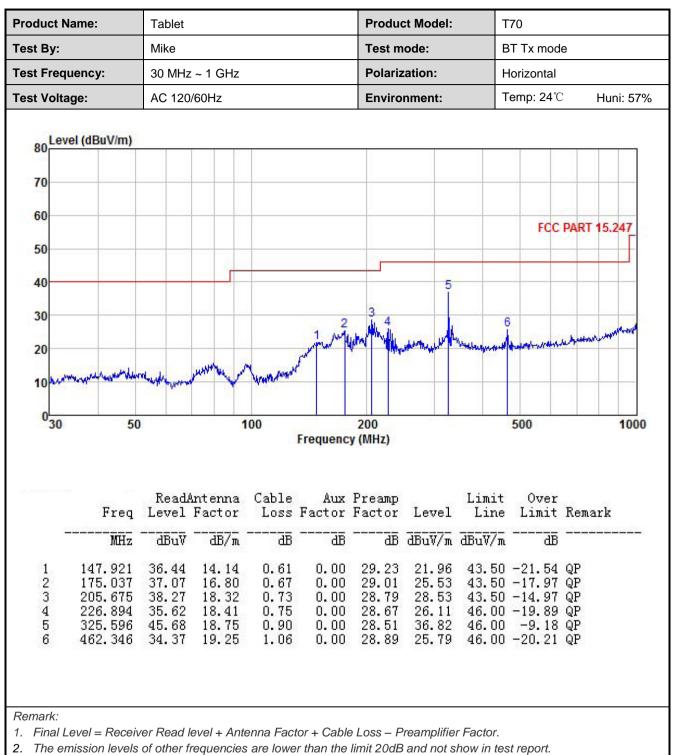
Below 1GHz:

oduct Na	duct Name: Tablet			Product Mode				:	T70			
est By: est Frequency:		Mike				Test	Test mode: Polarization:			BT Tx mode Vertical		
		30 MH	30 MHz ~ 1 GHz									
est Voltag	le:	AC 120/60Hz				Envir	Environment:			Temp: 24℃ Huni: 57%		
80 70 60 50 40 30 20		2		Mark In	4 with the and with	5 5 1	6 helertemender	- www.u.n.dadd	FCCF	ART 1	F	
10 0 30	50		1 Intenna		Frequenc		14	Limit	500 Over		1000	
	Freq	Level	Factor	Loss	Factor	Factor	Level			Rema	ark	
	MHz	dBu∛	dB/m	₫₿	₫₿	<u>dB</u>	dBuV/m	dBuV/m	āb			
5	37.025 53.693 80.644 152.664 205.675 340.782	40.47 37.88 40.27 50.66 34.05 38.77		0.34 0.40 0.47 0.62 0.73 0.92	0.00 0.00 0.00 0.00	29.20 28.79	20.26 23.76 36.44 24.31	40.00 40.00 43.50 43.50	-16.44 -19.74 -16.24 -7.06 -19.19 -16.07	QP QP QP QP		

3. The Aux Factor is a notch filter switch box loss, this item is not used.







3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz:

			Te		el: Lowest c					
				Detecto	or: Peak Val	Je				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	56.98	30.78	6.80	2.44	41.81	55.19	74.00	-18.81	Vertical	
4804.00	55.17	30.78	6.80	2.44	41.81	53.38	74.00	-20.62	Horizontal	
				Detector:	Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	45.56	30.78	6.80	2.44	41.81	43.77	54.00	-10.23	Vertical	
4804.00	47.82	30.78	6.80	2.44	41.81	46.03	54.00	-7.97	Horizontal	
			Т		el: Middle cl					
	1			Detecto	or: Peak Val	ue			Γ	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4882.00	56.65	30.96	6.86	2.47	41.84	55.10	74.00	-18.90	Vertical	
4882.00	57.43	30.96	6.86	2.47	41.84	55.88	74.00	-18.12	Horizontal	
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4882.00	46.65	30.96	6.86	2.47	41.84	45.10	54.00	-8.90	Vertical	
4882.00	45.12	30.96	6.86	2.47	41.84	43.57	54.00	-10.43	Horizontal	
			Te		el: Highest c pr: Peak Val					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	57.81	31.11	6.91	2.49	41.87	56.45	74.00	-17.55	Vertical	
4960.00	58.96	31.11	6.91	2.49	41.87	57.60	74.00	-16.40	Horizontal	
				Detector:	Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	47.56	31.11	6.91	2.49	41.87	46.20	54.00	-7.80	Vertical	
4960.00	48.33	31.11	6.91	2.49	41.87	46.97	54.00	-7.03	Horizontal	
						+ Aux Factor	– Preamplifie			

2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.