Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE163818

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RF Exposure Evaluation FCC ID: 2AL64-RE667

1. Client Information

Applicant		Shenzhen qiuyu Electronic Co.,Ltd			
Address		3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District ,Shenzhen, China			
Manufacturer	:	Shenzhen qiuyu Electronic Co.,Ltd			
Address	Ŀ	3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District ,Shenzhen, China			

General Description of FUT

Z. General i	ノモ	Scription of Eur						
EUT Name		Tablet PC						
Models No.		RE667, QM706						
Model Different		All models are in the same PCB layout interior structure and electrical circuits, The only difference is model.						
Product Description		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz					
	:	RF Output Power:	802.11b: 9.26dBm 802.11g: 8.49dBm 802.11n (HT20):8.39dBm 802.11n (HT40):7.20dBm					
	11	Antenna Gain:	1.79dBi FPC Antenna					
Power Supply	÷	DC 3.7V by 2500mAh Li-ion Battery. DC 5V by AC/DC Adapter.						
Software Version		rk312x-userdebug 6.0.1 MXC89K user.hc.20190122.100315 test-keys						
Hardware Version		RAK74E-MB-V1.1						
Connecting I/O Port(S)	:	Please refer to the User's Manual						

Note: More test information about the EUT please refer the RF Test Report.

Tel: +86 75526509301



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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2. Calculation:

Test separation	on: 5mm					
	DHI.		WiFi Mode(802.11b)	(III)		BALL
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.10	9±0.5	9.5	8.913	2.768	3.0
2.437	9.25	9±0.5	9.5	8.913	2.783	3.0
2.462	9.26	9±0.5	9.5	8.913	2.797	3.0
N.	No.	1	WiFi Mode(802.11g)	WILLIAM STORY		and the same
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.39	8±1	9	7.943	2.467	3.0
2.437	8.49	8±1	9	7.943	2.480	3.0
2.462	8.32	8±1	9	7.943	2.493	3.0
FIRM		Wi	Fi Mode(802.11n(HT20	0))	AMI	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.64	8±1	9	7.943	2.467	3.0
2.437	8.39	8±1	9	7.943	2.480	3.0
2.462	8.39	8±1	9	7.943	2.493	3.0
		Wi	Fi Mode(802.11n(HT4	0))	War and	a v
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	7.09	7±1	8	6.310	1.964	3.0
2.437	7.20	7±1	8	6.310	1.970	3.0
2.452	7.05	7±1	8	6.310	1.976	3.0

The worst RF Exposure Evaluation is calculated as 2.797 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----