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	:	3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District ,Shenzhen, China

2. General Description of EUT

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
		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.

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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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR

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

2. Calculation:

Test separation: 5mm						
WiFi Mode(802.11b)						
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**
WiFi Mode(802.11g)						
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**
WiFi Mode(802.11n(HT20))						
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**
WiFi Mode(802.11n(HT40))						
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.

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