

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AV6Y-Q8K

1. Client Information

Applicant	:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD			
Address	Address 5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Baotian 3rd Rd., Xixia				
Manufacturer	:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD			
Address		5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an District, Shenzhen City, China, 518126			

2. General Description of EUT

EUT Name	:	Kids Tablet				
Model(s) No.	:	Q8K				
Model Difference	:					
Product Description		Operation Frequency:	Bluetooth 4.2: 2402MHz~2480MHz 2.4G Wi-Fi: 2412MHz~2462MHz			
		Antenna Gain:	0.59dBi FPC Antenna			
Power Supply		For Adapter (Model: FX2U-050200U) Input: 100-240V~ 50/60Hz 0.4A Max Output: 5V-2A				
Li-ion Polymer Battery	:	3.85V by 3000mAh Rechargeable Li-ion battery				
Software Version	:	sp7731e_1h10s8637e_1g_PC_Q8K_debug				
Hardware Version	:	SQ8T-SC7731E-W-V1.0 230728-C				

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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)]*[$\sqrt{f_{(GHz)}}$] \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

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg(2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

- [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[√f_(GHz)/x] W/kg, for test separation distances ≤ 50 mm;
 - where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is > 50 mm.³⁷

The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .



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3. Calculation:

rest sepa	aration: 5mm	EW	The same to			
	P. P. S. San		Bluetooth (GFSK)			
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
2.402	2.454	2±1	3	1.995	0.618	3.0
2.441	-0.97	-1±1	0	1.000	0.312	3.0
2.480	0.133	0±1	1	1.259	0.397	3.0
		В	luetooth (Pi/4-DQPSK)	-		
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	Threshole Value
2.402	-0.145	0±1	1	1.259	0.390	3.0
2.441	1.138	1±1	2	1.585	0.495	3.0
2.480	2.2	2±1	3	1.995	0.628	3.0
	1 -	2011	Bluetooth (8-DPSK)	- 12 P	100	
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
2.402	0.12	0±1	1	1.259	0.390	3.0
2.441	1.476	1±1	2	1.585	0.495	3.0
2.480	2.452	2±1	3	1.995	0.628	3.0
			2.4 G Wi-Fi 802.11b	Man	51 1	
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	7.31	7±1	8	6.310	1.960	3.0
2.437	7.21	7±1	8	6.310	1.970	3.0
2.462	6.95	7±1	8	6.310	1.980	3.0
137	1500		2.4 G Wi-Fi 802.11g	Allian media		
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	Threshole Value
2.412	7.11	7±1	8	6.310	1.960	3.0
2.437	7.01	7±1	8	6.310	1.970	3.0
2.462	6.98	7±1	8	6.310	1.980	3.0
N. J. Line			2.4 G Wi-Fi 802.11n20	2 - W		3 1
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	Threshol Value
2.412	7.45	7±1	8	6.310	1.960	3.0
2.437	7.32	7±1	8	6.310	1.970	3.0
2.462	7.49	7±1	8	6.310	1.980	3.0

Conclusion:



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The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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