



RF Exposure Evaluation

FCC ID: 2BE3V-AT73K

1. Client Information

Applicant	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China
Manufacturer	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	Tablet	
Model(s) No.	:	AT73K	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth V4.2: 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz
	:	Antenna Gain:	1.53dBi FPC Antenna
Power Supply	:	USB Input: DC 5V DC 3.8V 3000mAh 11.4Wh Rechargeable Li-ion battery	
Software Version	:	6051_PC_AT73K_sp7731e_1h10__s8637e_1g_20240620_userdebug	
Hardware Version	:	S863T-7731E-V1.0-240315-F	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

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

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:

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

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



2. Calculation:

Test separation: 5mm						
Bluetooth Mode (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	7.633	7±1	8	6.31	1.956	3.0
2.441	7.777	7±1	8	6.31	1.972	3.0
2.480	7.557	7±1	8	6.31	1.987	3.0
Bluetooth Mode (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	Threshold Value
2.402	6.917	6±1	7	5.012	1.554	3.0
2.441	6.992	6±1	7	5.012	1.566	3.0
2.480	6.850	6±1	7	5.012	1.579	3.0
Bluetooth Mode (8-DPSK)						
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	6.347	6±1	7	5.012	1.554	3.0
2.441	7.313	7±1	8	6.31	1.972	3.0
2.480	7.118	7±1	8	6.31	1.987	3.0

Test separation: 5mm						
Bluetooth LE						
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	-3.302	-3±1	-2	0.631	0.196	3.0
2.440	-1.841	-1±1	0	1	0.312	3.0
2.480	-2.242	-2±1	-1	0.794	0.250	3.0



Test separation: 5mm						
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	7.13	7±1	8	6.31	1.960	3.0
2.437	7.94	7±1	8	6.31	1.970	3.0
2.462	8.15	8±1	9	7.943	2.493	3.0
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	7.01	7±1	8	6.31	1.960	3.0
2.437	7.10	7±1	8	6.31	1.970	3.0
2.462	7.20	7±1	8	6.31	1.980	3.0
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	6.51	6±1	7	5.012	1.557	3.0
2.437	6.51	6±1	7	5.012	1.565	3.0
2.462	6.71	6±1	7	5.012	1.573	3.0

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.

-----END OF THE REPORT-----

