

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202309-0266-7

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RF Exposure Evaluation FCC ID: 2ATPS-QH010

1. Client Information

Applicant	1	Dongguan Shinecon Industrial Co., Ltd			
Address : NO.9 SHIBEI ROAD, TANGLI DISTRICT, FENGGANG, DONGO CHINA.		NO.9 SHIBEI ROAD, TANGLI DISTRICT, FENGGANG, DONGGUAN, CHINA.			
Manufacturer		Dongguan Shinecon Industrial Co., Ltd			
Address	: NO.9 SHIBEI ROAD, TANGLI DISTRICT, FENGGANG, DONGGUAN, CHINA.				

2. General Description of EUT

EUT Name		Open Ear Desgin headphone				
Model(s) No.		QH-010, QH-001, QH-002, QH-003, QH-005, QH-006, QH-007, QH-008, QH-009, QH-101, WG-01, WG-02, WG-03, WG-04, WG-05, WG-06, WG-07, WG-08, WG-09, WG-103, TS19, TS20, TS21, TS18, TS22, TS23				
Model Difference	100	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.				
Sample ID		202309-0266-3-1#&202309-0266-3-2#				
Product Description	1	Operation Frequency:	Bluetooth 5.3: 2402MHz~2480MHz			
		Number of Channel:	BT: 79 channels BLE: 40 channels			
		Antenna Gain:	2.41dBi PIFA Antenna			
Power Rating (Earphone)		Input: DC 5V/1A DC 3.7V by 300mAh 1.11Wh Rechargeable Li-ion battery				
Power Rating (Charger Box)		DC 3.7V by 80mAh 0.296Wh Rechargeable Li-ion battery				
Software Version		6973_V240				
Hardware Version	1	TS21-V3				

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.

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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:

		В	luetooth 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	1.951	2±1	3	1.995	0.618	3.0
2.441	2.953	3±1	4	2.512	0.785	3.0
2.480	4.163	3.5±1	4.5	2.818	0.888	3.0
	William .	Blue	tooth Mode (Pi/4-DQPS	K)		
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	2.889	3±1	4	2.512	0.779	3.0
2.441	3.796	3.5±1	4.5	2.818	0.881	3.0
2.480	2.611	3±1	4	2.512	0.791	3.0
	3 _ (Blu	uetooth Mode (8-DPSK)	001	an's	
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	2.615	3±1	4	2.512	0.779	3.0
2.441	3.724	3.5±1	4.5	2.818	0.881	3.0
2.480	-0.221	0±1	1	1.259	0.397	3.0
		Blu	etooth LE Mode(1Mbps	s)		611
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	-0.573	-1±1	0	1	0.310	3.0
2.440	0.281	0±1	1	1.259	0.393	3.0
2.480	1.564	2±1	3	1.995	0.628	3.0
		Blu	etooth LE Mode(2Mbps	s)		
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	-0.589	-1±1	0	1	0.310	3.0
2.440	0.37	0±1	1	1.259	0.393	3.0
2.480	1.623	2±1	3	1.995	0.628	3.0

Conclusion:

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----

