

RF Exposure Evaluation

FCC ID: 2AJ2I-S888

1. Client Information

Applicant : Fugle Products (HK)Company Limited
Address : ROOM 1103, HANG SENG MONGKOK BUILDING 677 NATHAN ROAD MONGKOK, KOWLOON HONG KONG
Manufacturer : Shenzhen Shengxingwang Precision Technology Co., Ltd.
Address : No.4 Long Jing Road, YangMei Village, Bantian Street, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	: True wireless earbuds	
Models No.	: S888	
Model Difference	: N/A	
Product Description	Operation Frequency:	Bluetooth 4.1: 2402~2480 MHz
	Number of Channel:	Bluetooth: 79 Channels <small>See Note 2</small>
	Max Peak Output Power:	Bluetooth: 0.203 dBm(GFSK)
	Antenna Gain:	-4.65 dBi TDA Antenna
	Modulation Type:	GFSK 1Mbps(1 Mbps) $\pi/4$ -DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	: DC power by USB cable. DC power by Li-ion battery.	
Power Rating	: EUT-1: DC 5V by USB Cable. DC 3.7V by 2000mAh Li-ion Battery. EUT-2: DC 3.7V by 35mAh Li-ion Battery.	
Connecting I/O Port(S)	: Please refer to the User's Manual	
Note: EUT-1: Charging Box EUT-2: Headsets		

Note:

More test information about the EUT please refer to 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2.

Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.985	± 0.5	0.894	0.277	3.0
2.441	-0.704	± 0.5	0.954	0.298	3.0
2.480	0.203	± 0.5	1.176	0.370	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.100	± 0.5	1.096	0.340	3.0
2.441	-0.700	± 0.5	0.955	0.298	3.0
2.480	-0.814	± 0.5	0.930	0.293	3.0
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.114	± 0.5	1.152	0.357	3.0
2.441	-0.453	± 0.5	1.011	0.316	3.0
2.480	-0.610	± 0.5	0.975	0.307	3.0

So standalone SAR measurements are not required.

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