

RF Exposure Evaluation

FCC ID: 2ABNBHX-P320

1. Client Information

Applicant : GOLDEN CHINA AUDIO (HK) PRODUCT LIMITED (AOK)

Address : UNIT 2509, 25/F HO KING COMM CTR 2-16 FA YUEN ST KLN, HONG KONG

Manufacturer : Dong Guan Jin Wen hua Audio Product Ltd.

Address : No.1, Hua da Road, Longbei ling, tang xia town, dongguan, China

2. General Description of EUT

| | | |
|-------------------------------|---|---|
| EUT Name | : | Jam Thrill |
| Models No. | : | HX-P320 |
| Model difference | : | N/A |
| Product Description | : | Operation Frequency: Bluetooth:2402~2480MHz |
| | : | Number of Channel: Bluetooth:79 Channels |
| | : | Max Peak Output Power: 8-DPSK: 4.167dBm |
| | : | Antenna Gain: 0 dBi PCB Antenna |
| | : | Modulation Type: GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps) |
| Power Supply | : | DC power by USB cable form Host System DC power by Li-ion battery |
| Power Rating | : | DC 5V by USB Cable from PC system. DC 3.7V by Li-ion Battery. |
| 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.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.
 - (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:
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}]}{\leq 3.0 \text{ for 1-g SAR}}$$

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

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 | 3.115 | ± 0.5 | 2.299 | 0.713 | 3.0 |
| 2.441 | 3.609 | ± 0.5 | 2.576 | 0.805 | 3.0 |
| 2.480 | 4.034 | ± 0.5 | 2.841 | 0.895 | 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 | 3.919 | ± 0.5 | 2.766 | 0.857 | 3.0 |
| 2.441 | 3.926 | ± 0.5 | 2.771 | 0.866 | 3.0 |
| 2.480 | 3.919 | ± 0.5 | 2.766 | 0.871 | 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 | 3.327 | ± 0.5 | 2.414 | 0.748 | 3.0 |
| 2.441 | 3.694 | ± 0.5 | 2.627 | 0.821 | 3.0 |
| 2.480 | 4.167 | ± 0.5 | 2.929 | 0.922 | 3.0 |

So standalone SAR measurements are not required.