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RF Exposure Evaluation

FCC ID: 2BPR7HYT-16C-001

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

| | |
|---------------------------|--|
| Product Name: | Infrared Bluetooth Voice Air Mouse Remote Control |
| Trade Mark: | / |
| Model/Type Reference: | HYT-16C-001 |
| Listed Model(s): | HYT-16C-002, HYT-16C-003 |
| Model Differences: | All these models are identical in the same PCB, layout and electrical circuit, The difference is model name and shell color. |
| Operating Frequency Band: | BLE: 2402MHz ~ 2480MHz |
| Device Category: | <input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____ |
| Antenna Diversity: | <input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity |
| Antenna Gain (Max): | 3.41dBi |

Limit

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR}$$

Where:

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The result is rounded to one decimal place for comparison

-The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.



Measurement Result

| Mode | Frequency (MHz) | Max. Measured Power (dBm) | Max. Tune up Power (dBm) | Result | Limit | Verdict |
|------|-----------------|---------------------------|--------------------------|--------|-------|---------|
| GFSK | 2402 | 0.37 | 1 | 0.862 | 3.0 | Pass |

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****