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Maximum RF Exposure Evaluation

FCC ID: 2ATXW-BT200PRO

According to KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

EUT Specification

Product Name:	TV SOUNDBOX
Trade Mark:	/
Model/Type reference:	BT-200 Pro
Listed Model(s):	BT-200B Pro, BT-200G Pro, BT-200 Pro Plus, BT-200B Pro Plus BT-200G Pro Plus
Frequency band (Operating)	☐ BT/EDR: 2.402GHz ~ 2.480GHz ☐ BLE: 2.402GHz ~ 2.480GHz ☐ WLAN: 2.412GHz ~ 2.462GHz ☒ Others: 2.403GHz ~ 2.478GHz
Device category	☒ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☐ Fixed (>20cm separation) ☐ Others
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna gain (Max)	-0.62dBi
Evaluation applied	☒ RF Exposure Evaluation ☐ SAR Evaluation

Limit

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

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 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

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Calculation Value	Limit
GFSK	2478	-0.62	4.77	4 ± 1	5	0.9950	3.000

$0.9950 < 3$, So the transmitter complies with the RF exposure requirements and the SAR is not required

Note

For a more detailed features description, please refer to the RF Test Report.

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

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