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RF Exposure Evaluation

FCC ID: XUJTSGUN

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

EUT Specification

EUT	TPMS WAND
Model/Type reference:	X-431 TSGUN
Listed Model(s):	/
Frequency band (Operating)	☒ BT: 2.402GHz ~ 2.480GHz ☒ BLE: 2.402GHz ~ 2.480GHz ☐ WLAN: 2.412GHz ~ 2.462GHz ☐ Others
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)	2.0dBi

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.

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**Measurement Result**

BLE						
Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Calculation Value	Threshold Value
GFSK	2402	4.68	4±1	5	0.980	3.0
	2440	4.91	4±1	5	0.988	3.0
	2480	4.67	4±1	5	0.996	3.0

BT						
Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Calculation Value	Threshold Value
GFSK	2402	4.55	4±1	5	0.980	3.0
	2441	4.66	4±1	5	0.988	3.0
	2480	4.67	4±1	5	0.996	3.0
$\pi/4$ -DQPSK	2402	5.92	5±1	6	1.234	3.0
	2441	5.97	5±1	6	1.244	3.0
	2480	5.95	5±1	6	1.254	3.0
8-DPSK	2402	6.32	6±1	7	1.554	3.0
	2441	6.42	6±1	7	1.566	3.0
	2480	6.36	6±1	7	1.579	3.0

Note

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

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