



SAR exemption evaluation

Applicant Cypress Semiconductor
FCC ID WAP3047
Product EZ-BT WICED Module
Model CYBT-333032-02, CYBT-333047-02
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Conducted Power

BT	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	7.96	9.34	9.70	12
$\pi/4$ DQPSK	6.62	7.82	7.83	12
8DPSK	7.16	8.28	8.33	12
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK	6.41	7.44	7.65	9

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- f(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

Band	Configuration	Frequency (MHz)	Distance (mm)	MAX Power (dBm)	Ratio	SAR test exclusion thresholds	Evaluation
Bluetooth	Body-worn	2480	9	12	2.62	3	No
BLE	Body-worn	2480	9	9	1.66	3	No

Note: Based on SAR test exclusion, all values meet the SAR test exclusion thresholds and are exempt from routine RF exposure evaluation.