

8 CONDUCTED RF OUPUT POWER

8.1	2.4G ISM Band Output Power
8.2.1	Bluetooth Output Power
8.2.2	Bluetooth Duty Cycle

8.1 2.4G ISM Band Output Power

2.4G ISM Band-Ant.1						
2.4G	Mode	Channel	Frequency (MHz)	Conducted power (dBm)	Tune up (dBm)	SAR Test
	1M	Low	2402	14.59	15.50	Yes
		Mid	2440	14.41	15.50	Yes
		High	2480	14.31	15.50	Yes
	2M	Low	2404	14.55	15.50	No
		Mid	2440	14.34	15.50	No
		High	2478	14.24	15.50	No

8.2.1 Bluetooth Output Power

Bluetooth-Ant. 1						
Test Mode	Modulation	Channel number	Frequency(MHz)	Conducted power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	14.58	15.50	Yes
		39	2441	14.34	15.50	Yes
		78	2480	13.96	15.50	Yes
	2DH5	0	2402	12.83	13.50	No
		39	2441	12.45	13.50	No
		78	2480	12.47	13.50	No
	3DH5	0	2402	12.77	13.50	No
		39	2441	12.62	13.50	No
		78	2480	12.57	13.50	No
	BLE-1M	0	2402	8.00	8.50	No
		19	2440	7.44	8.50	No
		39	2480	7.05	8.50	No
	BLE-2M	1	2404	7.81	8.50	No
		19	2440	7.32	8.50	No
		38	2478	7.03	8.50	No

Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

8.2.2 Bluetooth Duty Cycle

The Bluetooth DH5 duty cycle is 76.61% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

