

8 CONDUCTED RF OUPUT POWER

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8.1 WIFI Output Power

8.1.1 WIFI2.4G Output Power

WIFI2.4G-ANT0-Full Power						
2.4G	Mode	Channal	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	11b	1	2412	9.33	10.00	Yes
		6	2437	9.33	10.00	Yes
		11	2462	9.82	10.00	Yes
	11g	1	2412	8.42	10.00	No
		6	2437	9.01	10.00	No
		11	2462	9.15	10.00	No
	11n-HT20	1	2412	8.36	10.00	No
		6	2437	8.99	10.00	No
		11	2462	9.13	10.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.

2) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $0.032 * (10\text{mW}/10\text{mW}) = 0.032$ W/Kg, so 2.4G OFDM SAR test is not required.

8.2 Bluetooth

8.2.1 Bluetooth Output Power

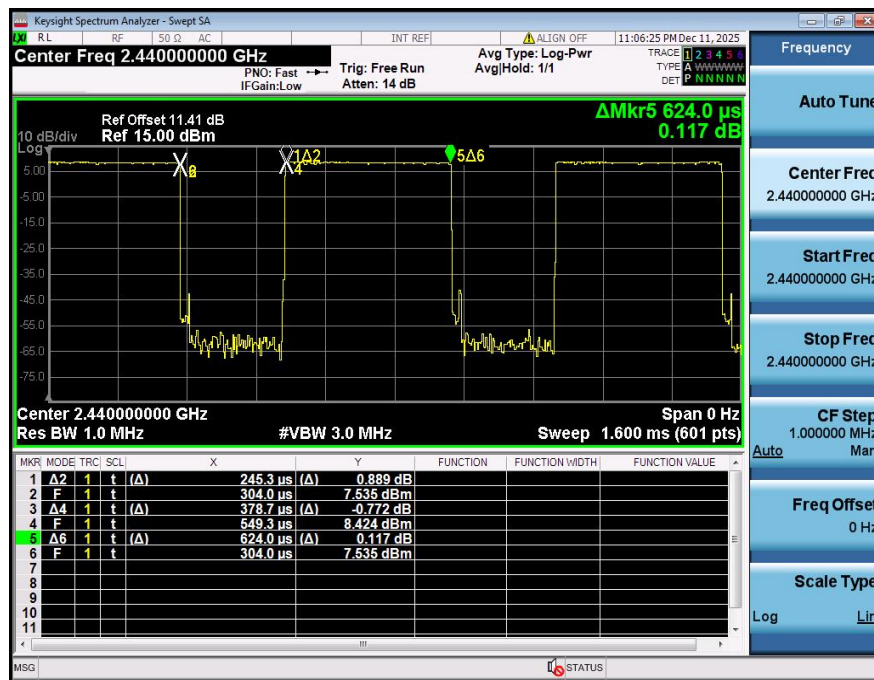
Bluetooth-Ant.0-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	BLE-1M	0	2402	7.82	9.00	Yes
		19	2440	8.73	10.00	Yes
		39	2480	9.08	10.00	Yes
	BLE-2M	1	2404	8.13	9.00	No
		19	2440	8.90	10.00	No
		38	2478	9.27	10.00	No
Note: Since bluetooth BLE-1M mode is the maximum output power mode, SAR measurements were performed with test software using BLE-1M modulation.						

Bluetooth-Ant.1-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	BLE-1M	0	2402	2.09	3.00	Yes
		19	2440	2.54	3.00	Yes
		39	2480	3.10	3.50	Yes
	BLE-2M	1	2404	2.06	3.00	No
		19	2440	2.46	3.00	No
		38	2478	2.97	3.00	No
Note: Since bluetooth BLE-1M mode is the maximum output power mode, SAR measurements were performed with test software using BLE-1M modulation.						

8.2.2 Bluetooth Duty Cycle

The Bluetooth duty cycle of Ant.0 is 60.68% 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



The Bluetooth duty cycle of Ant.1 is 62.13% 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

