

8 CONDUCTED RF OUPUT POWER

8.1	Bluetooth
8.1.1	Bluetooth Output Power
8.1.2	Bluetooth Duty Cycle

8.1 Bluetooth

8.1.1 Bluetooth Output Power

Bluetooth-Left ear						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	7.78	8.50	Yes
		39	2441	7.70	8.50	Yes
		78	2480	7.98	8.50	Yes
	2DH5	0	2402	1.13	2.00	No
		39	2441	0.98	2.00	No
		78	2480	1.37	2.00	No
	3DH5	0	2402	1.10	2.00	No
		39	2441	1.01	2.00	No
		78	2480	1.35	2.00	No
	BLE1M	0	2402	4.88	6.00	No
		19	2440	4.76	6.00	No
		39	2480	5.01	6.00	No
	BLE2M	1	2404	4.91	6.00	Yes
		19	2440	4.82	6.00	Yes
		38	2478	5.07	6.00	Yes

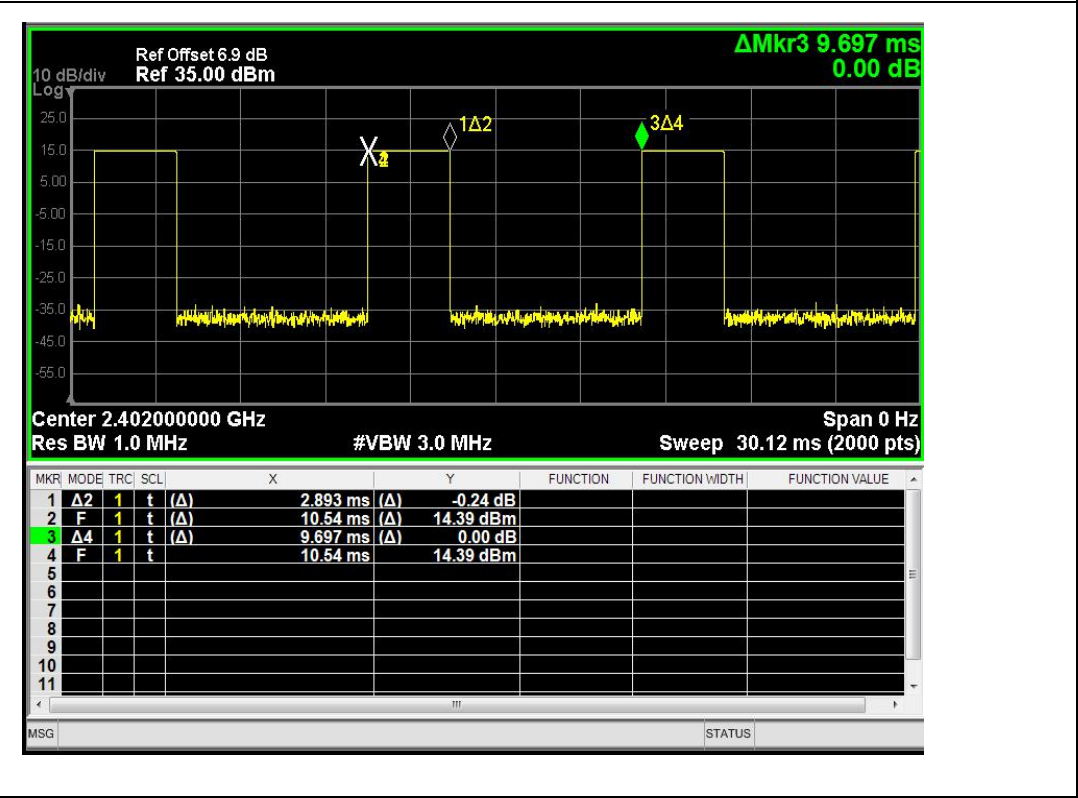
Note:

1.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. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

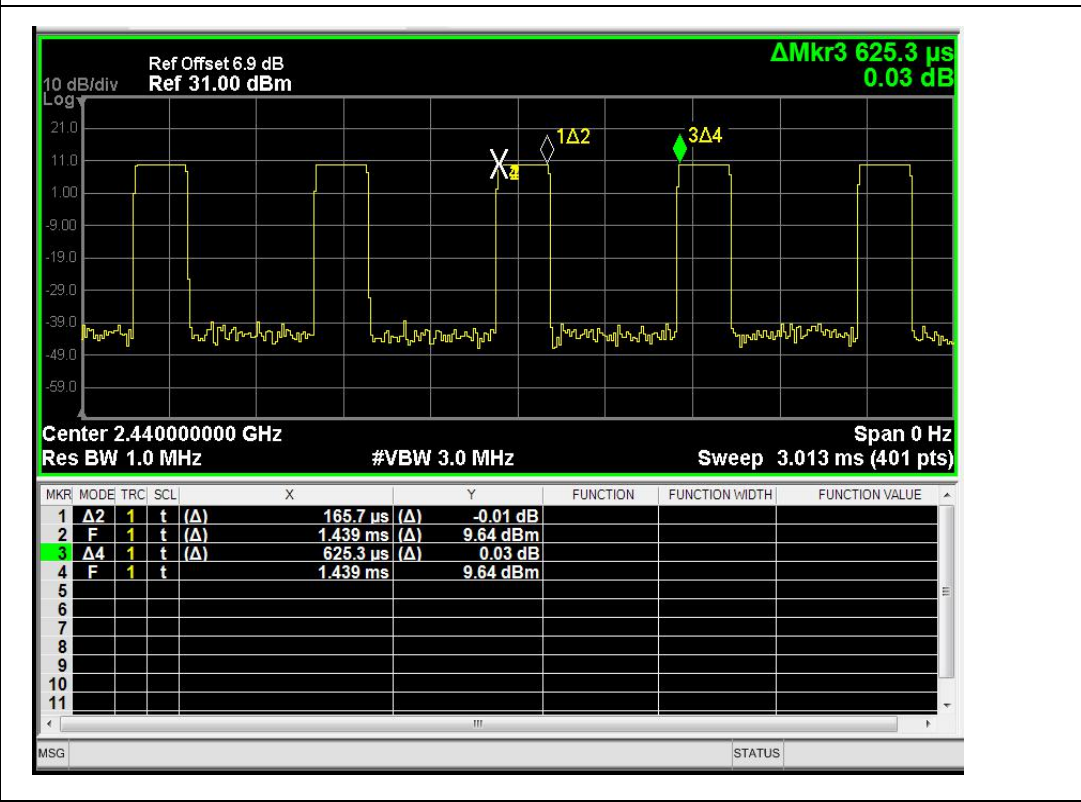
2.Since the duty cycle of BLE-1M is 26.50% and that of BLE-2M is 13.42%, the actual average power of BLE-2M is higher. Therefore, BLE-2M was chosen for the test.

8.1.2 Bluetooth Duty Cycle

The Bluetooth DH5 duty cycle is 29.83% 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.



The Bluetooth BLE1M duty cycle is 26.50% 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.



The Bluetooth BLE2M duty cycle is 13.42% 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.

