

## PRODUCT DESCRIPTION

EUT	: ROMOTE CONTROLLER
Model Number	: WH-5917_BLE, WH-6224_BLE
Model Declaration	: All the same except for the model name and button silk-screen
Test Model	: WH-5917_BLE
Power Supply	: DC 3.0V by 2*1.5V batteries
Hardware version	: V1.0
Software version	: V101
Sample ID	: TZ200501344 – 1#

### Bluetooth

Bluetooth Version	: V5.0[only support LE Mode]
Channel Number	: 40 Channels for BLE (DTS)
Modulation Technology	: GFSK for BLE (DTS)
Data Rates	: BLE (DTS): 1Mbps
Antenna Type And Gain	Internal Antenna / 2.73dBi

## RADIO FREQUENCY EXPOSURE

### Limit

According to section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v06, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Appendix A.

## Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	<b>10</b>	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Note: Manufacturer declared that the maximum antenna gain is 2.73dBi (Max.).

**Conducted Power Results**

Test Mode	Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
GFSK(1Mbps)	00	2402	1.733
	19	2440	1.488
	39	2480	1.274

**Manufacturing tolerance**

GFSK (1Mbps Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	1.5	1.0	1.0
Tolerance ±(dB)	1.0	1.0	1.0

**Results**

Test Mode	Channel Frequency (MHz)	Max. Tune Up Power (dBm, Peak)	Max. Eirp including Tune Up (dBm, Peak)	Max. Eirp including Tune Up (mW, Peak)	Exemption Limit (mW)
GFSK(1Mbps)	2402	2.5	5.23	3.33	10
	2440	2	4.73	2.97	10
	2480	2	4.73	2.97	10

The antenna gain of the EUT for BT is 2.73dBi (Max). the Maximum Eirp is used for Routine Evaluation Exemption according to section 4.3.1 of KDB 447498 D01.

So, the SAR evaluation is not required.