



MAXLAB Testing Co.,Ltd.

Report No.: MAX25070187P01-R01RF

## FCC PART 15 SUBPART C TEST REPORT FCC PART 15.247

Report Reference No..... : MAX25070187P01-R01RF

FCC ID..... : 2BMVZ-COOLEER-X2

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Address..... : 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District,  
Shenzhen, Guangdong, 518052, People's Republic of China

Applicant's name..... : Cooleer(Shenzhen) Technology Co.,Ltd.

Address..... : Room 302, Building 3, ZhongTai Technology Industrial Park,  
DongHuan First Road, Longhua District, Shenzhen, Guangdong,  
518000 China

Test specification..... :

Standard..... : FCC 1.1310

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Test item description..... : Smart ear spoon (with WiFi camera)

Trade Mark..... : N/A

Manufacturer..... : Cooleer(Shenzhen) Technology Co.,Ltd.

Model/Type reference..... : Cooleer-X2

Listed Models ..... : Cooleer-X3

Modulation Type..... : CCK/ DSSS/ OFDM

Operation Frequency..... : From 2412-2462MHz

Rating..... : DC 3.7V From Battery or DC 5V by USB port

Result..... : PASS



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## RF EXPOSURE EVALUATION METHOD

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

### EUT Specification

Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.150GHz ~ 5.250GHz <input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz <input type="checkbox"/> Others BT:2402-2480MHz
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm <sup>2</sup> ) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm <sup>2</sup> )
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	8.121dBm (0.00649W)
Antenna gain (Max)	0 dBi
Evaluation applied	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

## RF EXPOSURE EVALUATION METHOD

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

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

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	10	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	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR, where  $f(\text{GHz})$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

Operating Mode	Frequency	Measured Power	max. power	Antenna Gain	min. test separation distance	[ $\sqrt{f}$ (GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
802.11b	2412	8.121	6.49	0	5	1.553	2.0152	3
	2437	7.974	6.27	0	5	1.561	1.9582	3
	2462	7.752	5.96	0	5	1.569	1.8701	3
802.11g	2412	6.652	4.63	0	5	1.553	1.4369	3
	2437	6.421	4.39	0	5	1.561	1.3695	3
	2462	6.235	4.20	0	5	1.569	1.3188	3
802.11n (HT20)	2412	5.415	3.48	0	5	1.553	1.0807	3
	2437	5.326	3.41	0	5	1.561	1.0643	3
	2462	5.268	3.36	0	5	1.569	1.0555	3
802.11n (HT40)	2422	3.652	2.32	0	5	1.556	0.7216	3
	2437	3.452	2.21	0	5	1.561	0.6913	3
	2452	3.235	2.11	0	5	1.566	0.6596	3

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})]$$

The test Result is less than 3.0 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

**Conclusion:** No SAR is required.