

# FCC RF EXPOSURE REPORT

## FCC ID: 2ALJ6-MRB1803

**Project No.** : 1905C156  
**Equipment** : Mini Robot Builder  
**Test Model** : MRB1803  
**Series Model** : N/A  
**Applicant** : Beijing AIQI Technology Co., LTD.  
**Address** : Room.D1203, The 11th floor, Block D, No.9  
Shangdi 3rd St., Haidian District,  
Beijing,100085, China

**According** : FCC Guidelines for Human Exposure IEEE  
C95.1 & KDB447498 D01

# **B T L I N C .**

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Certificate #5123.02

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 08, 2019

## 1. GENERAL SUMMARY

Equipment : Mini Robot Builder  
Brand Name : ONEBOT  
Test Model : MRB1803  
Series Model : N/A  
Applicant : Beijing AIQI Technology Co., LTD.  
Manufacturer : Beijing AIQI Technology Co., LTD.  
Address : Room.D1203, The 11th floor, Block D, No.9 Shangdi 3rd St., Haidian District,  
Beijing, 100085, China  
Date of Test : Jun. 05, 2019 ~ Jun. 14, 2019  
Test Sample : Engineering Sample No.: DG19053143  
Standards : KDB447498 D01 General RF Exposure Guidance v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1905C156) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	-0.081

## 2. GENERAL CONCLUSION:

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  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

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

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

Maximum measured transmitter power:

Max. Output Power (dBm)	Max. Output Power (mW)	Limit (mW)
-8.54	0.140	10

The maximum measured output peak power of this EUT is 0.140mW, less than 10mW at 5mm distance.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**