



# RF Exposure Evaluation

**FCC ID: 2A6OK-92334**

## 1. Client Information

<b>Applicant</b>	:	Sertus Hong Kong
<b>Address</b>	:	Room 830, 8/F., Metro Centre II, no. 21 Lam Hing Street, Kowloon Bay, Kowloon, Hong Kong
<b>Manufacturer</b>	:	Sertus Hong Kong
<b>Address</b>	:	Room 830, 8/F., Metro Centre II, no. 21 Lam Hing Street, Kowloon Bay, Kowloon, Hong Kong

## 2. General Description of EUT

<b>EUT Name</b>	:	DRONE MAKER SUBKIT
<b>Model(s) No.</b>	:	92334
<b>Product Description</b>	Operation Frequency:	2.4GHz:2420MHz~2460MHz
	Number of Channel:	3 Channels
	Antenna Gain:	0.17 dBi Internal Antenna
	Modulation Type:	GFSK
<b>Power Supply</b>	:	Input: DC 1.5V AAA*3
<b>Software Version</b>	:	V1.0
<b>Hardware Version</b>	:	V1.0

**Remark:** The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

**Note:** More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2. Calculation:**

2.4GHz Mode						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.420	-11.246	-11±1	-10	0.100	0.031	3.0
2.440	-10.716	-10±1	-9	0.126	0.039	3.0
2.460	-10.573	-10±1	-9	0.126	0.040	3.0

**Conclusion:**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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