

# ***RF Exposure Report***

## ***FCC ID: 2ALWFCV-T100C***

### 1. GENERAL INFORMATION

#### 1.1 GENERAL DESCRIPTION OF EUT

<b>Equipment</b>	Air cleaner
<b>Model Name</b>	CV-T100C
<b>Additional Model Number(s)</b>	CV-T100B, CV-T100M, CV-T100S, CV-T100W, CV-T100N, CV-T100D, CV-T100RF, CV-T100ED, CV-T100P, CV-T100H, CV-T100Z, CV-T100G, CV-T100FX
<b>Model Difference</b>	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
<b>Frequency Range</b>	Bluetooth 4.0(BLE): 2402~2480 MHz
<b>Number of Channel:</b>	40 Channels
<b>Modulation Type</b>	GFSK
<b>RF Output Power</b>	3.884 dBm
<b>Antenna Type</b>	Chip Antenna (Gain: 3.25dBi)
<b>Power Source</b>	DC Voltage supplied from AC/DC Adapter.
<b>Power Rating</b>	Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2.5A
<b>Remark</b>	More details EUT technical specifications, please refer to the User's Manual.

## 2. RF EXPOSURE INFORMATION

### SAR Test Exclusion Calculations

2.1 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 distances  $\leq 5$  mm are determined by:

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

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

#### 2.2

Calculation:

BLE Mode						
GFSK(1Mbps)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	MAX Power of Turn-up Tolerance (mW)	Calculation Value	Threshold Value
2402	3.793	3 ± 1	4	2.512	0.779	3.0
2442	3.884	3 ± 1	4	2.512	0.785	3.0
2480	3.704	3 ± 1	4	2.512	0.791	3.0

So standalone SAR measurements are not required.

\*\*\*\*\*END OF REPORT\*\*\*\*\*