



## VTECH ENGINEERING CANADA LTD.

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| TITLE | Changes to VTECH 900MHz Analog Cordless Phone |
| MODEL | VTECH 1411 (new family model)                 |

### 1 Purpose

This document describes the changes on the RF circuitry that are made to the new family model VTECH 1411. It is a miniature 900MHz analog cordless telephone in the approved 9108 family, manufactured by VTech Communications Limited. The original FCC ID on the 9108 family is :

**EW79108**

Changes made to this product are to facilitate size reduction to this new family model. The Handset size is roughly (7.5 x 6 x 2 cm), excluding the antenna. The Handset has no built-in mic nor receiver. Hence, it must be used with the headset provided.

*Note: Please note that the formal model no. is 1411. Although the old model no. VT 1411 may appear in some of the early stage design documents, it is referring to the same model 1411.*

### 2 Changes on Handset & Base

VTECH 1411 is designed based on the approved model 9108. The design changes made are all in size consideration instead of anything related to cost or performance.

Major changes are :-

- Re-layout of the RF circuitry & audio circuitry to achieve small size PCB's
- Using 0402 components instead of 0603 (surface mounted size) for capacitors, inductors & resistors.
- Shorter (half length) antennas for both Handset & Base.

The RF circuitry remains the same as the model 9108, which means :-

- The same block RF block diagram
- The same Freq. Allocation table for the 30 channels
- The same IF freq.
- The same stages of RF amplification
- The same RF IC UAA3515 used

Minor changes & adjustments in the values of the passive components are also made to cope with the changes mentioned above.

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