

## **Operation Description**

### **Train Table with Train Set**

The Train Table with Train Set is powered by a 4 x 1.5V AAA size battery. It is operate at 13.560MHz which is generated by a crystal. The EUT is powered by 4 x 1.5 v AAA size batteries and it has two button switches on the EUT. When the forward or backward button is pressed once, it will go to corresponding direction and play the sound or music when the RFID in the train is detected the RFID tag.

Referring to the transmitter circuit design, the circuit description is listed below:

- Q1 and associated circuit act as the oscillator.
- IC ATS302R and associated circuit act as the decoder.
- Q2 ~ Q7 and associated circuit act as M1 motor driver circuit.
- Q4 ~ Q9 and associated circuit act as M2 motor driver circuit.