## **Analysis Report**

FCC ID: IKQFMTD13

The EUT is an In Car Flex-Mount FM Transmitter (for use in a vehicle) which transmits audio signal from external electronic devices like iPhone or Android smartphone to the car FM radio. The electronic devices are connected with the EUT by 3.5mm AUX IN plug. The EUT comes with a LCD display to show the frequency & channel being transmitted. The EUT is powered by car cigarette 12V socket. The EUT can be operated in 100 different channels in the frequency band 88.1MHz to 107.9MHz with 200kHz channel spacing.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Nominal rated field strength: 30dBµV/m at 3m Allowed field strength of production tolerance: +/- 10dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production was  $40dB\mu$ V/m at 3m, thus;

The EIRP =  $[(FS*D) ^{2*1000} / 30] = 0.003 \mu W$ 

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power =  $0.003\mu$ W.

The SAR Exclusion Threshold Level at 107.9MHz: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (0.1079) mW = 45.7 mW

Since the above maximum output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.