RF Exposure Evaluation Report

1 RF EXPOSURE

Product Name:	multi frequency remote control duplicator
Model No.:	FTDBF00EN, FTDBF01EN, FDABF01EN, FDABF01EN, FMABF01EN, FTDBF02EN, FDABF02EN, FDABF02EN, FMABF02EN, FTDBF03EN, FDABF03EN, FDABF03EN, FMABF03EN, FTDBF04EN, FDABF04EN, FDABF04EN, FMABF04EN, FTDBF05EN, FDABF05EN, FDABF05EN, FMABF05EN, FTDBF06EN, FDABF06EN, FDABF06EN, FMABF06EN, FTDBF07EN, FDABF07EN, FDABF07EN, FMABF07EN, FTDBF08EN, FDABF08EN, FDABF08EN, FMABF08EN, FTDBF09EN, FDABF09EN, FDABF09EN, FMABF09EN
FCC ID:	2BF6L-FTDBF00EN

2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.

2.1 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leqslant$ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] *[$\sqrt{f(GHz)}$] $\leqslant$ 3.0 for 1-g SAR and $\leqslant$ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is $\leqslant$ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2.2 EUT RF EXPOSURE EVALUATION

Worst Mode:						
Channel (MHz)	Conducted Power (dBm)	Tune up Tolerance (dBm)	Maximum tune-up Power		Calculated value	Limit
			(dBm)	(mW)		
433.92MHz	-13.35	-13±1	-12.0	0.063	0.008	3.0

dBm=dBuV/m -95.2, Fundamental field strength max is 81.85dBuV/m, so power is -13.35dBm

Calculated value is 0.008< 3.0, So there is no require SAR test.