

# **RF Exposure Evaluation**

## **Test report**

**On Behalf of  
Shenzhen E-FORUNE Digital Manufactory Limited**

**For  
Selfie Artifact**

**Model No.: R10, R11, R12, R13, R14, R15**

**FCC ID: 2AWHK-R10**

**Prepared for :**        **Shenzhen E-FORUNE Digital Manufactory Limited**  
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**Date of Test:**        **May 22, 2020 ~ Jun. 01, 2020**

**Date of Report:**    **Jun. 01, 2020**

## 1 General Description of EUT

Product Name:	Selfie Artifact
Model/Type reference:	R10
Serial Model:	R11, R12, R13, R14, R15
Model Difference	All models have the same functionality, software and electronics, only the color, front frame shape and model names may differ. Test sample model: R10
Trade Mark	N/A
FCC ID	2AWHK-R10
Hardware Version:	EF-CRC-V1.0
Software Version:	V5.1
Version:	Supported EDR
Modulation:	GFSK, $\pi/4$ DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79CH
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	0 dBi
Power supply:	DC 3.7V from lithium battery

## 2 RF Exposure Compliance Requirement

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

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

Where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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

### 3 EUT RFExposure

Antenna Gain: 0dBi

Define the minimum distance: 5mm

#### For Bluetooth:

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	0.444	$0 \pm 1$	1	1.259	0.390	3.0
Middle (2441MHz)	0.335	$0 \pm 1$	1	1.259	0.393	
Highest (2480MHz)	-0.062	$0 \pm 1$	1	1.259	0.397	
Conclusion: the calculated value $\leq 3.0$ , SAR is exempted.						

π /4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.611	1±1	2	1.585	0.491	3.0
Middle (2441MHz)	1.609	1±1	2	1.585	0.495	
Highest (2480MHz)	1.080	1±1	2	1.585	0.499	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Note: For maximum peak conducted output power, please refer to Test report EDR