



Test Report No.: SA161212W008



RF EXPOSURE REPORT

Product: BT Remote

Model Name: BTRP

FCC ID: IKQBTRP

Applicant: Scosche Industries Inc

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Manufacturer: Scosche Industries Inc

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Report No.: SA161212W008

Received Date: Dec. 12, 2016

Test Date: Feb. 07, 2017 ~ Feb. 17, 2017

Issued Date: Feb. 20, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA161212W008	Original release	Feb. 20, 2017



2 GENERAL INFORMATI

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BT Remote
MODEL NAME	BTRP
FCC ID	IKQBTRP
NOMINAL VOLTAGE	DC 3.0V
MODULATION TECHNOLOGY	DTS
MODULATION TYPE	BT-LE(GFSK) for DTS
TRANSMISSION RATE	BT_LE: 1Mbps
OPERATING FREQUENCY	2402-2480MHz
MAX. OUTPUT POWER	BT-LE: 0.302mW (Maximum)
ANTENNA TYPE	PCB Antenna with 0dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one transmitter and one receiver.

MODULATION MODE	TX/RX FUNCTION
BT_LE	1TX /1RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm



3.4 CONDUCTED POWER

BT-LE (GFSK)

PEAK OUTPUT POWER

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT(W)	PASS/FAIL
0	2402	-5.20	0.302	1	PASS
19	2440	-5.91	0.256	1	PASS
39	2480	-6.61	0.218	1	PASS

AVERAGE OUTPUT POWER

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	-5.27	N/A
19	2440	-5.95	N/A
39	2480	-6.66	N/A

3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

BT-LE (GFSK)

OPERATING BAND(MHz)	Output Power E.I.R.P. (dBm)	Output Power E.I.R.P. (mW)	Power Density (mW/cm ²)	limit (mW/cm ²)	Evaluation Result
2402~2480	-5.0	0.316	0	1	N/A

Remark: The "N/A" means that, this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.