

RF EXPOSURE REPORT

Applicant	faller audio, Inc.
Address	49 Prospect Street Malden, MA 02148, USA

Manufacturer or Supplier	faller audio, Inc.
Address	49 Prospect Street Malden, MA 02148, USA
Product	OSKAR TV Voice Enhancer
Brand Name	faller
Model	SV-100
Additional Model & Model Difference	N/A
Date of tests	Apr. 24, 2023 ~ Jul. 31, 2023

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01 V06**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Nov. 23, 2023

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2304WDG0229-2	Original release	Nov. 23, 2023

1. CERTIFICATION

FCC ID:	2BCJW-SV100
PRODUCT:	OSKAR TV Voice Enhancer
BRAND NAME:	faller
MODEL NO.:	SV-100
ADDITIONAL NO.:	N/A
APPLICANT:	faller audio, Inc.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	IEEE C95.1

2. RF EXPOSURE LIMIT

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. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	1.1	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	7.5	+1.5	6	9
8DPSK	2402-2480	4.5	+1.5	3	6

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	7.92
8DPSK	2402	5.34

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	9	1.1	20	0.002036	1.0

CONCLUSION: PASS

--- END ---