

FCC MPE REPORT

Certification

Applicant Name:
SONY CORPORATION

Address:
1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Date of Issue:

April 24, 2019

Location:

HCT CO., LTD.,

74, Seoicheon-ro 578beon-gil, Majang-myeon,
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1903-FC005-R1

FCC ID: AK8DSXB700

APPLICANT: SONY CORPORATION

Model: DSX-B700

EUT Type: FM/AM Bluetooth CAR AUDIO

Frequency Range: 2402 MHz - 2480 MHz (Bluetooth)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)



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Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1903-FC005	March 11, 2019	- First Approval Report
HCT-RF-1903-FC005-R1	April 24, 2019	- Revised the Average Output Power on page 4

RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....			f/1500	30
1500 - 100.000.....			1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

3-1. Bluetooth

Average output Power at antenna input terminal	1.000	dBm
Average output Power at antenna input terminal	1.259	mW
Prediction distance	20.000	cm
Prediction frequency	2402 - 2480	MHz
Antenna Gain(typical)	-7.400	dBi
Antenna Gain(numeric)	0.182	-
Power density at prediction frequency(S)	0.0000456	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

2.1091

EIRP	-6.4 (dBm)
ERP	-8.55 (dBm)
ERP	0.00 (W)
ERP Limit	1.50 (W)
MARGIN	40.31 (dB)