

FCC RF Exposure

Applicant : Shenzhen Ruist Import and Export Trading Co., Ltd.
Address : 433, Building 25, Keyuan West, Kezhi West Road, Yuehai Street, Nanshan District, Shenzhen, China
Product Name : Carplay for Car
Brand Mark : RUIST
Model no. : COX10
Series model : COX93, COX90, COX70
FCC ID : 2BRHI-COX10
Report Number : BLA-EMC-202607-A69-03
Date of Receipt : Aug. 01, 2026
Date of Test : Aug. 01, 2026 to Oct. 26, 2026
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Review by: Xavier

Approved by:

Jing Zheng

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Revise Record

Version No.	Date	Description
01	Oct. 26, 2026	Original

1 General information

1.1 General information

Applicant	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, Kezhi West Road, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, Kezhi West Road, Yuehai Street, Nanshan District, Shenzhen, China
Factory	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, Kezhi West Road, Yuehai Street, Nanshan District, Shenzhen, China

1.2 General description of EUT

Product name	Carplay for Car
Model no.	COX10
Series model no.	COX93, COX90, COX70
Differences of Series model	Their circuit design layouts, components used, and internal wiring are identical; only the model names and dimensions differ.
Operation Frequency	BT Classic: 2402MHz-2480MHz 5GWIFI: U-NII-1: 5150MHz-5250MHz
Modulation Type	BT Classic: GFSK, $\pi/4$ -DQPSK, 8DPSK 5GWIFI: IEEE 802.11a:OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40):OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax(HE20/HE40):OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Number of Channels	BT: 79 5GWIFI: U-NII-1: 802.11a/802.11n(HT20)/802.11ac(HT20)/802.11ax(HE20): 4, 802.11n(HT40)/802.11ac(HT40)/802.11ax(HE40): 2
Antenna Type	PCB antenna
Antenna Gain	BT Classic: 4.2dBi 5G WIFI: 2.75dBi
Resource unit(802.11ax)	Only support full RU

Power supply	Input: 5V/3A(Type C)
Test Voltage	DC 5V from adapter AC 120V/60Hz
Hardware Version	N/A
Software Version	N/A
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

2.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^{2/30}$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^{2/30} \times \text{gt}$$

Separation distance= 20cm

BT Classic antenna Gain: 4.2dBi

5G WIFI antenna Gain: 2.75dBi

BT Classic worse case: **5.958dBm** @ 2402MHz

$$\text{ERP} = 5.958 + 4.2 - 2.15 = 8.008 \text{dBm} = 6.321 \text{mW} < 3060 \text{mW}$$

5G WIFI worse case: **12.203dBm** @ 5240MHz

$$\text{ERP} = 12.203 + 2.75 - 2.15 = 12.803 \text{dBm} = 19.068 \text{mW} < 3060 \text{mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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