

RF Exposure

Applicant : Shenzhen Ruist Import and Export Trading Co., Ltd.
433, Building 25, Keyuan West, No. 5 Kezhi West Road,
Address : Science and Technology Park, Yuehai Street, Nanshan
District, Shenzhen, China
Product Name : Motorcycle Carplay HD Touch Screen
Brand Mark : RUIST
Model : MOX70
Series model : MOX68, MOX61, MOX50
Report Number : BLA-EMC-202508-A5105
FCC ID : 2BRHI-MOX
Date of Receipt : Aug. 12,2025
Date of Test : Aug. 18,2025 to Sept. 05,2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: charlie

Review by: Xavier

Approved by: 131016 Zheng

Issued Date: Sept. 08, 2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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Revise Record

Version No.	Date	Description
01	Sept. 08,2025	Original

1 General information

1.1 General information

Applicant	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, No. 5 Kezhi West Road, Science and Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, No. 5 Kezhi West Road, Science and Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Factory	Shenzhen Ruist Import and Export Trading Co., Ltd.
Address	433, Building 25, Keyuan West, No. 5 Kezhi West Road, Science and Technology Park, Yuehai Street, Nanshan District, Shenzhen, China

1.2 General description of EUT

Product name	Motorcycle Carplay HD Touch Screen
Model no.	MOX70
Series model	MOX68, MOX61, MOX50
Differences of Series model	The PCBA is consistent. Only the size and appearance differ from those of the model.
Power supply or adapter information	DC12V
Hardware version	N/A
Software version	N/A
Engineer sample no.	BLA-EMC-202508-A51

For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	1dBi(Provided by customer)

For 2.4GWIFI

Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type	FPC antenna
Antenna Gain	1dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

For 5GWIFI

Operating Frequency	Band1: 5180MHz~5240MHz;Band4:5745MHz~5825MHz
Channel numbers	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2,
Modulation Type	OFDM
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	10MHz
Antenna Type	FPC antenna
Antenna Gain	1dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 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.

3.2 Limits

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

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

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

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
BLE 1M	2402	-2.05	0.62	1	-3.2	0.48	3060.00	Pass
2.4G WIFI:N20	2412	10.337	10.81	1	9.187	8.29	3060.00	Pass
5G WIFI:A20	5200	8.726	7.46	1	7.576	5.72	3060.00	Pass

$ERP = \text{Max Output power} + \text{Ant gain} - 2.15$

So, The worst working mode is BT+2.4GWiFi

$0.48\text{mW} + 8.29\text{mW} = 8.77\text{mW} < 3060\text{mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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