



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



RF EXPOSURE EVALUATION

Applicant: Autel Robotics Co., Ltd.

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FCC ID: 2AGNTMDX600958S

Product Name: EVO Max 4T, EVO Max 4N, EVO Max 4T Pro, EVO
Max 4T XE

Standard(s): 47 CFR §1.1307, 47 CFR §2.1091
447498 D01 General RF Exposure Guidance v06

The above device has been tested and found compliant with the requirement of the relative standards
by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2503P42421E-RF-00E

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2503P42421E-RF-00E	Original Report	2025/2/19

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	EVO Max 4T, EVO Max 4N, EVO Max 4T Pro, EVO Max 4T XE
EUT Model:	MDX
Rated Input Voltage:	DC 14.88V from battery or 14.76V from battery
EUT Received Date:	2025/1/22
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i)& 15.407(f)& 15.225(g) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
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;

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

2.1.2 Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
SRD	904-926	0.30	1.07	27	501.19	20	0.1067	0.6
	2403.5-2475.5	1.90	1.55	28	630.96	20	0.1946	1.0
	5154-5246	0.70	1.17	20	100.00	20	0.0233	1.0
	5728-5847	1.70	1.48	28	630.96	20	0.1858	1.0
Wi-Fi	2412-2462	2.20	1.66	24	251.19	20	0.0830	1.0
	5150-5250	2.60	1.82	19	79.43	20	0.0288	1.0
	5725-5850	4.00	2.51	17	50.12	20	0.0250	1.0
Radar	60990-61840	9.60	9.12	10.4	10.96	20	0.0199	1.0

Note:

The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

For Simultaneous transmission:

SRD/ Radar can't transmit simultaneously with Wi-Fi,
SRD and 6 Radars can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{SRD} / S_{limit-SRD} + S_{Radar} / S_{limit-Radar} * 6$$

$$= 0.1946/1 + 0.0199/1 * 6$$

$$= 0.31 < 1$$

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

3. EUT PHOTOGRAPHS

Please refer to the attachment 2503P42421E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2503P42421E-RF-INP EUT INTERNAL PHOTOGRAPHS

===== END OF REPORT =====