RF Exposure MPE

Report Reference No.....:	**CTA26020500708**
FCC ID..... :	**2BVG4-MP02**
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Date of issue .....:	Feb. 28, 2026
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Address.....:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name.....:	**BEIJING MERA TECHNOLOGY Co., Ltd**
Address.....:	Room 422, Building 1, Mingliang Technology Park, Taoyuan Street, Nanshan District, Shenzhen City, Guangdong Provice, China
Standard.....:	**47CFR §1.1310** **47CFR §2.1091** **KDB447498 D01 General RF Exposure Guidance v06**

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Test item description .....:	**OxiLeash Pet GPS Tracker**
Trade Mark	N/A
Manufacturer .....:	BEIJING MERA TECHNOLOGY Co., Ltd
Model/Type reference .....:	MP02
Listed Models .....:	N/A
Rating .....:	Input: 5V⎓ 1A Battery: 3.7V 600mAh 2.22Wh
Result .....:	**PASS**

TEST REPORT

Equipment under Test	:	OxiLeash Pet GPS Tracker
Model /Type	:	MP02
Applicant	:	**BEIJING MERA TECHNOLOGY Co., Ltd**
Address	:	Room 422, Building 1, Mingliang Technology Park, Taoyuan Street, Nanshan District, Shenzhen City, Guangdong Provice, China
Manufacturer	:	**BEIJING MERA TECHNOLOGY Co., Ltd**
Address	:	Room 422, Building 1, Mingliang Technology Park, Taoyuan Street, Nanshan District, Shenzhen City, Guangdong Provice, China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.
FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.
FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Feb. 05, 2026
Testing commenced on	:	Feb. 05, 2026
Testing concluded on	:	Feb. 28, 2026

2.2 Product Description

Product Name:	OxiLeash Pet GPS Tracker
Model/Type reference:	MP02
Power supply:	Input: 5V⎓ 1A Battery: 3.7V 600mAh 2.22Wh
Adapter information:	Model: J121L-0501000UU Input: AC 100-240V 50/60Hz 0.6A Output: DC 5.0V 1.0A 5.0W
Hardware version:	TA207_MB_V1.3
Software version:	TA207126CMP156EA004_20260106_105952
Testing sample ID:	CTA260205007-1# (Engineer sample) CTA260205007-2# (Normal sample)
LTE	
Operation Band:	E-UTRA Band 2/4/5/12/13/66/71
Support Bandwidth:	Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz Band 4: 1.4MHz, 3MHz, 5MHz,10MHz, 15MHz, 20MHz Band 5: 1.4MHz, 3MHz, 5MHz,10MHz, Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz Band 13: 5MHz, 10MHz Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz Band 71: 5MHz, 10MHz, 15MHz, 20MHz,
TX/RXFrequency Range:	E-UTRA Band 2(TX:1850 MHz -1910MHz,RX: 1930-1990MHz) E-UTRA Band 4(TX:1710 MHz -1755MHz,RX: 2110-2155MHz) E-UTRA Band 5(TX:824 MHz -849MHz,RX: 869-894MHz) E-UTRA Band 12(TX:699 MHz -716MHz,RX: 729-746MHz) E-UTRA Band 13(TX:777 MHz -787MHz,RX: 746-756MHz) E-UTRA Band 66(TX:1710 MHz -1780MHz,RX: 2110-2200MHz) E-UTRA Band 71(TX:663MHz-698 MHz,RX:617-652MHz)
Modulation Type:	QPSK, 16QAM
Release Version:	Release 9
Category:	Cat 1
Antenna Type:	PIFA Antenna
Antenna Gain:	-1.97 dBi for Band 2 -1.46 dBi for Band 4 -4.77 dBi for Band 5 -8.63 dBi for Band 12 -7.58 dBi for Band 13 -1.52 dBi for Band 66 -10.37 dBi for Band 71

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
FCC-Registration No.: 517856 Designation Number: CN1318
Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01
Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27890 CAB identifier: CN0127
Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Time	/	±2%	(1)

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f²)*	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

4.2 MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

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

4.3 Conducted Power Results and Manufacturing tolerance

LTE	Max.conduct power (dBm)	Target (dBm)	Tolerance ±(dB)
Band2	23.96	23.0	1.0
Band4	23.87	23.0	1.0
Band5	23.95	23.0	1.0
Band12	23.9	23.0	1.0
Band13	23.97	23.0	1.0
Band66	23.88	23.0	1.0
Band71	23.98	23.0	1.0

4.4 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
Band2	24.0	251.1886	-1.97	0.6353	0.0318	1.0000
Band4	24.0	251.1886	-1.46	0.7145	0.0357	1.0000
Band5	24.0	251.1886	-4.77	0.3334	0.0167	0.5493
Band12	24.0	251.1886	-8.63	0.1371	0.0069	0.4660
Band13	24.0	251.1886	-7.58	0.1746	0.0087	0.5180
Band66	24.0	251.1886	-1.52	0.7047	0.0352	1.0000
Band71	24.0	251.1886	-10.37	0.0918	0.0046	0.4420

Remark:
1. Output power including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.5 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

********** **End of Report** **********