TEST REPORT

Reference No.	:	WTD25D12326869W002
FCC ID	:	KE3-3003832
Applicant	:	Radio Systems Corp
Address	:	10427 PetSafe Way, Knoxville, TN 37932 USA
Manufacturer	:	Radio Systems Corp
Address	:	10427 PetSafe Way, Knoxville, TN 37932 USA
Product	:	GPS Tracker Collar
Model(s)	:	RFA-673, RFA-674
Brand Name	:	Petsafe
Standards	:	FCC 47CFR Part 2 Subpart J Section 2.1091
Date of Receipt Sample	:	2025-12-09
Date of Test	:	2025-12-15 to 2026-04-03
Date of Issue	:	2026-04-03
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:
Waltek Testing Group Co., Ltd.
Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Tel: +86-769-2267 6998
Fax: +86-769-2267 6828

Compiled by:

Frank Yin

Frank Yin / Project Engineer

Approved by:

Deval Qin

Deval Qin / Designated Reviewer

2. Contents

3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D12326869W002	2025-12-09	2025-12-15 to 2026-04-03	2026-04-03	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	GPS Tracker Collar
Model(s):	RFA-673, RFA-674
Model Description:	Model RFA-673 was tested in the report. RFA-673 is a dog collar, and RFA-674 is a cat collar. RFA-673 and RFA-674: The PCB boards are the same, but the RFA-674 has fewer electronic components, although the RF circuit remains unchanged.
Test Sample No.:	1-1/1
Contains approved module	FCC ID: 2ANPO00NRF9151
Bluetooth Version:	In DIYC Trackers Datasheet and Certification files (Bluetooth® 6.0s)
Hardware Version:	100-1452 #001
Software Version:	Tracker_BLE_Host-v0.0.28 Tracker_Modem-v0.0.32

4.2. Details of E.U.T.

Operation Frequency:	2402~2480MHz
Max. RF output power:	BLE 1M: 6.18dBm, BLE 2M: 6.19dBm
Modulation Technology:	GFSK
Antenna installation:	Microwave Multi-Layer Ceramic Antenna
Antenna Gain:	5.19dBi

Note:
#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings:	RFA-673: DC 5V by Charging base Battery: DC 3.85V, 590mAh RFA-674: DC 5V by Charging base Battery: DC 3.85V, 270mAh

4.3. Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.4. Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.5. Abnormalities from Standard Conditions

None.

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC Part 2.1091	PASS

6. RF Exposure

Test Requirement: FCC 47CFR Part 2 Subpart J Section 2.1091

Evaluation Method: FCC 47CFR Part 1 Subpart I Section 1.1310,
KDB 447498 D01 General RF Exposure Guidance v06

6.1. Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

6.2. The procedures / limit

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*($900/f^2$)	<6
30-300	61.4	0.163	1	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	<30
1,500-100,000			1	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm^2)
P = output power 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)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

6.4. Radio Frequency Radiation Exposure Evaluation

Band	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm^2)	Limit (mW/cm^2)
BLE	-0.23	3.30	6.19	4.16	0.002731	1.00
LTE Cat-M1 Band 8	-8.39	0.14	22.92	195.88	0.005456	0.60
LTE Cat-M1 Band 13	-2.52	0.56	22.14	163.68	0.018225	0.52
LTE Cat-M1 Band 2/25	1.96	1.57	22.79	190.11	0.059385	1.00
LTE Cat-M1 Band 5/26	-3.35	0.46	23.06	202.30	0.018607	0.54
LTE Cat-M1 Band 4/66	1.75	1.50	22.87	193.64	0.057633	1.00
LTE Cat-M1 Band 12/85	-5.81	0.26	23.01	199.99	0.010439	0.47
LTE NB-IOT Band 8	-8.39	0.14	22.32	170.61	0.004752	0.60
LTE NB-IOT Band 13	-2.52	0.56	22.27	168.66	0.018779	0.52
LTE NB-IOT Band 2/25	1.96	1.57	22.63	183.23	0.057237	1.00
LTE NB-IOT Band 5/26	-3.35	0.46	22.49	177.42	0.016318	0.54
LTE NB-IOT Band 4/66	1.75	1.50	22.54	179.47	0.053416	1.00
LTE NB-IOT Band 12/17/85	-5.81	0.26	22.16	164.44	0.008584	0.47

Simultaneous Transmission

Mode	Sum of the MPE rate	Limit
LTE+BLE	0.062116	1

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.
3. Rated powers are from report No.: 77535RRF001A1s_1, 77535RRF001A1s_2, 77535RRF002A1s_1, 77535RRF002A1s_2, 77535RRF003A1s_1, 77535RRF003A1s_2, 77535RRF003A1s_3, 77535RRF003A1s_4, 77535RRF003A1s_5, 77535RRF003A1s_6, 77535RRF003A1s_7, 77535RRF004A1s_1, 77535RRF004A1s_2 of certified module, FCC ID: 2ANPO00NRF9151.
4. Models: RFA-673 and RFA-674 have the same antenna type but different antenna gains. The antenna gain with the highest gain was selected for RF exposure assessment.

Conclusion:

RF Exposure is FCC compliant.

======End of Report======