



RF Exposure Evaluation Report

Application No.: DNT2508130648R8786-10380
Applicant: SHENZHEN HUIYE IOT TECHNOLOGY CO.,LTD.
Address of Applicant: No.39, Zhulongtian Road, Shuitian Community, Shiyuan Street, Baoan, Shenzhen
EUT Description: TRACKER
Model No.: HYB001P
FCC ID: 2BO2A-HYB001P
Power supply: DC 2.5V-3.3V
Trade Mark: Huiye
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: 2025/8/13
Date of Test: 2025/8/14 to 2025/8/22
Date of Issue: 2025/8/29
Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pengfei Chen (Project Engineer)

Approved By: Youse Shen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	August 29, 2025	Valid	Original Report



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1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

Manufacturer:	Chongqing Huiye IoT Technology Co.,Ltd
Address of Manufacturer:	No.6-4,Zong bao Avenue, Shapingba District, Chongqing City, P.R.China
EUT Description::	TRACKER
Test Model No.:	HYB001P
Additional Model(s):	/
Power Supply	DC 2.5V-3.3V
Trade Mark:	Huiye
Hardware Version:	B001P_MB_V1.0.3
Software Version:	V08
Serial Number	PR2508130648R8786
Chip Type:	N54L05
Operation Frequency:	BLE:2402MHz to 2480MHz; LTE Band 2; LTE Band 4; LTE Band 5; LTE Band 7; LTE Band 66;
Type of Modulation:	GFSK
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	☒ Provided by applicant
	BLE:2dBi LTE: Band 2:0.9dBi, Band 4:0.9dBi, Band 5:-2.4dBi, Band 7:0.2dBi, Band 66:0.2dBi,
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) 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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

BLE

Test Mode	Antenna	Freq(MHz)	Power [dBm]
BLE_1M	Ant1	2402	4.54
		2440	4.08
		2480	3.34
BLE_2M	Ant1	2402	4.48
		2440	4.02
		2480	3.35

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm²)	Limited of Power Density (S) (mW /cm²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
BLE 1M	Ant1	4.54	4 ± 1	5	2	1.5849	0.0010	1	Complies	20

LTE

Test Mode	Frequency	Maximum Conducted Power(dBm)	Antenna Gain	ERP (EIRP) dBm	Power Density (S) (mW/cm ²)	Limited Of Power Density (S) (mW /cm ²)	Distance (cm)
LTE B2	1850-1910	25.7	0.9	26.6	0.0909	1	20
LTE B4	1710-1755	25.7	0.9	26.6	0.0909	1	20
LTE B5	824-849	25.7	-2.4	23.3	0.0425	0.5493	20
LTE B7	2500-2570	25.7	0.2	25.9	0.0774	0.466	20
LTE B66	1710-1780	25.7	0.2	25.9	0.0774	1	20

Total Radio(BLE+ LTE)=0.001+0.0909=0.0919, the result less than 1, so complies.

The End Report