



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0151-A Page (1) of (7)	KCTL
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1. Client

- Name : Luckybox Solution Co.,Ltd.
- Address : 1207, 1208, 1225, 311, Gangnam-daero, Seocho-gu, Seoul, South Korea
- Date of Receipt : 2025-06-23

2. Use of Report : Certification

3. Name of Product / Model : HK DriveLink / HK DriveLink

4. Manufacturer / Country of Origin : Luckybox Solution Co.,Ltd. / Korea

5. FCC ID : 2BREE-HKDRIVELINK

6. Date of Test : 2025-07-07 to 2025-08-03

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used : 47 CRF Part 1.1310

9. Test Result : Refer to the test result in the test report

Affirmation	Tested by Name : Hyesom Shin (Signature)	Technical Manager Name : Kwonse Kim (Signature)
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2025-08-28

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2025-08-18	Originally issued	-
2025-08-28	Update	4,5,7

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Note. The report No. KR25-SRF0151 is superseded by the report No KR25-SRF0151-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. General information

Client : Luckybox Solution Co.,Ltd.
 Address : 1207, 1208, 1225, 311, Gangnam-daero, Seocho-gu, Seoul, South Korea
 Manufacturer : Luckybox Solution Co.,Ltd.
 Address : 1207, 1208, 1225, 311, Gangnam-daero, Seocho-gu, Seoul, South Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : HK DriveLink
 Model : HK DriveLink
 Modulation technique : Bluetooth(BLE) : GFSK
 : LTE : QPSK, 16-QAM
 Number of channels : 40 ch
 Power source : DC 12 V
 Antenna specification : Bluetooth(BLE) : PCB Pattern Antenna
 : LTE : LDS Antenna
 Antenna gain : Bluetooth(BLE) : 2.12 dBi
 : LTE Band 2 : -0.19 dBi
 Frequency range : Bluetooth(BLE) : 2 402 MHz ~ 2 480 MHz
 : LTE Band 2 : 1 850.7 MHz ~ 1 909.3 MHz
 Software version : v1.0.0
 Hardware version : v1.0.0
 Test device serial No. : Conducted : 00000016
 : Radiated : 00001015
 Operation temperature : -20 °C ~ 80 °C

2.1. Frequency/channel operations

This device contains the following capabilities:

Bluetooth Low Energy, LTE B2

Ch.	Frequency (MHz)
00	2 402
.	.
19	2 440
.	.
39	2 480

Table 2.1.1. Bluetooth Low Energy

LTE B2

Ch.	Frequency (MHz)
18607	1 850.7
18900	1 880.0
19193	1 909.3

Table 2.1-2. 1.4M BW

Ch.	Frequency (MHz)
18615	1 851.5
18900	1 880.0
19185	1 908.5

Table 2.1-3. 3M BW

Ch.	Frequency (MHz)
18625	1 852.5
18900	1 880.0
19175	1 907.5

Table 2.1-4. 5M BW

Ch.	Frequency (MHz)
18650	1 855.0
18900	1 880.0
19150	1 905.0

Table 2.1-5. 10M BW

Ch.	Frequency (MHz)
18675	1 857.5
18900	1 880.0
19125	1 902.5

Table 2.1-6. 15M BW

Ch.	Frequency (MHz)
18700	1 860.0
18900	1 880.0
19100	1 900.0

Table 2.1-7. 20M BW

3. RF Exposure

Regulation

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC rules and Regulations.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310, is listed in Table 1-1. According to FCC §1.1310: the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b).

Table 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 [minute]
(A) 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	1.0	6
300 ~ 1 500	/	/	f/300	6
1 500 ~ 15 000	/	/	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 ~ 1 500	/	/	f/1 500	30
1 500 ~ 15 000	/	/	1.0	30

f=frequency in MHz, * = plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits shown in the table above are extended down to 100 kHz

in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c)
 - 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.
When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.

3.1. Test results

MPE (Maximum Permissible Exposure) Prediction

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

$$S = PG/4\pi R^2 \quad (\Rightarrow R = \sqrt{PG/4\pi S})$$

S = power density [mW/cm^2]

P = Power input to antenna [mW]

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 [cm]

Calculation Result of RF exposure

Maximum tune-up tolerance (Worst Case)

Mode	Frequency [MHz]	Max Tune-up Power [dBm]	Max Tune-up Power [mW]	Ant Gain [dBi]	Power density at 20 cm [mW/cm^2]	Limit [mW/cm^2]
Bluetooth Low Energy	2 440	-9.50	0.11	2.12	0.000 04	1.00
LTE Band 2	1 850 ~ 1 910	24.77	299.92	-0.19	0.057 11	1.00

End of test report