verify No.947375985602

위변조방지/진위확인
www.docuqr.com

TEST REPORT

Eurofins KCTL Co.,Ltd.
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-70-5008-1021 FAX: 82-505-299-8311
www.kctl.co.kr

eurofins | KCTL

1. Client

- Name : CAMTIC
- Address : 67, Yusang-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea
- Date of Receipt : 2023-07-11

2. Use of Report : Certification

3. Name of Product / Model : SKY KICK / SKICK

4. Manufacturer / Country of Origin : CAMTIC / Korea

5. FCC ID : 2BB5P-SKYKICK

6. Date of Test : 2023-07-31 to 2023-08-11

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 : 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 : Harim Lee (Signature)

2023-09-22

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
2023-09-22	Originally issued	-

This report shall not be reproduced except in full, without the written approval of Eurofins KCTL Co.,Ltd. *This document may be altered or revised by* Eurofins KCTL Co.,Ltd. *personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by* Eurofins KCTL Co.,Ltd. *will constitute fraud and shall nullify the document. This test report is a general report that does not use the KOLAS accreditation mark and is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.*

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**

CONTENTS

1. General information 4
2. Device information 4
2.1. Frequency/channel operations 5
2.2. Accessory information 5
3. Measurement uncertainty 5
4. RF Exposure 6
4.1. Test results 7
5. Measurement equipment 7

1. General information

Client	:	CAMTIC
Address	:	67, Yusang-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea
Manufacturer	:	CAMTIC
Address	:	67, Yusang-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of 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	:	SKY KICK
Model	:	SKICK
Modulation technique	:	GFSK
Number of channels	:	78 ch
Power source	:	DC 7.6 V
Antenna specification	:	Wire Antenna
Antenna gain	:	-3.8 dBi
Frequency range	:	2 403 ㎒ ~ 2 480 ㎒
Software version	:	23.6.1
Hardware version	:	23.6.1
Test device serial No.	:	N/A
Operation temperature	:	-20 ℃ ~ 50 ℃

2.1. Frequency/channel operations

Ch.	Frequency (㎒)
Low	2 403
Mid	2 440
High	2 480

Table 2.1.1 GFSK

2.2. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
Battery	CAMTIC	Lithium-ion Polymer battery	N/A	500mAh/2S/7.6V/40C

3. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.
All measurement uncertainty values are shown with a coverage factor of *k*=2 to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (±)
Conducted RF power	0.9 ㏈

4. 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 (㎒)	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [㎽/㎠]	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/f²	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/f²	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 ㎒, *= 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 ㎑

MPE (Maximum Permissive Exposure) Prediction

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

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

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 [㎝]

4.1. Test results

Calculation Result of RF exposure

Mode	Frequency [㎒]	Max Tune-up Power [dBm]	Max Tune-up Power [㎽]	Power density at 20 ㎝ [㎽/㎠]	Limit [㎽/㎠]
GFSK	2 403	-3.00	0.50	0.000 04	1.000 00

Note.

1. The power density P_d at a distance of 20 ㎝ calculated from the friis transmission Formula is far below the limit of 1 ㎽/㎠.

Target power and tolerance, Max tune-up power

Mode	Target Power [dBm]	Tolerance [dB]	Max Tune-up Power [㎽]	Measured Conducted Average Power [dBm]
GFSK_2 403 ㎒	-4.50	+1.50	-3.00	-5.60
GFSK_2 440 ㎒	-4.50	+1.50	-3.00	-5.38
GFSK_2 480 ㎒	-4.50	+1.50	-3.00	-5.29

5. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Power Sensor	R&S	NRP-Z81	1137.9009.02-106224-tg	24.04.25
Attenuator	R&S	DNF Dämpfungsglied 10 ㏈ in N-50 Ohm	0001	24.04.25

End of test report