



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.: KR26-SRF0178-A Page (1) of (8)	KCTL
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1. Client

- Name : NC& CO., LTD
- Address : 660, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
- Date of Receipt : 2026-08-05

2. Use of Report : Certification

3. Name of Product / Model : H1 QHD Infinite / H10-Q1

4. Manufacturer / Country of Origin : NC& CO., LTD / Korea

5. FCC ID : 2BCO9-H10Q1

6. IC Certificate No. : 34776-H10Q1

7. Date of Test : 2026-08-13 to 2026-09-15

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

9. Test method used : 47 CRF Part 2.1091
 RSS-102 Issue 6 December 2023

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

Affirmation	Tested by Name : Minjung Kim (Signature)	Technical Manager Name : Kwonse Kim (Signature)
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2026-10-06

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.

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-09-21	Originally issued	-
2026-10-06	Updated	8

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Note. The report No. KR26-SRF0178 is superseded by the report No. KR26-SRF0178-A.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 : NC& CO., LTD

Address : 660, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

Manufacturer : NC& CO., LTD

Address : 660, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 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 : H1 QHD Infinite

Model : H10-Q1

Modulation technique : Bluetooth(BLE) : GFSK
 WIFI(802.11n/ac) : DSSS, OFDM

Number of channels : Bluetooth(BLE) : 40 ch
 2.4 GHz WLAN : 11 ch (20 MHz)
 UNII-1 : 4 ch (20 MHz)

Power source : DC 12 ~ 24 V

Antenna specification : Dielectric Chip Antenna

Antenna gain : BLE/2.4 GHz WLAN : 2.23 dBi
 UNII-1 : 2.79 dBi

Frequency range : Bluetooth : 2 402 MHz ~ 2 480 MHz (BLE)
 2.4 GHz WLAN : 2 412 MHz ~ 2 462 MHz (802.11n_HT20)
 UNII-1 : 5 180 MHz ~ 5 240 MHz (802.11ac_VHT20)

Software version : V1.00

Hardware version : PRIME_MAIN_V03, PRIME_SUB_QHD_V03

Test device serial No. : H1Q19A0010

Operation temperature : -20 °C ~ 60 °C

2.1. Frequency/channel operations

This device contains the following capabilities:

Bluetooth(BLE), WLAN 2.4 GHz_802.11n(HT20), WLAN 5 GHz_802.11ac(VHT20)

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

Table 2.1.1. Bluetooth Low Energy

Ch.	Frequency (MHz)
01	2 412
.	.
06	2 437
.	.
11	2 462

Table 2.1.2. 802.11n_HT20

UNII-1

Ch.	Frequency (MHz)
36	5 180
40	5 200
48	5 240

Table 2.1.3. 802.11ac_VHT20

3. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014+C63.4a-2017.

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 or 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 ($\pm$)
Conducted RF power	0.9 dB

4. RF Exposure

FCC 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

IC

Field reference level exposure exemption limits

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

4.1. Test results

FCC

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

Channel	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 (1Mbps)	2 402.00	3.00	2.00	2.23	0.000 66	1.00
2.4G_802.11n HT20	2 437.00	12.50	17.78	2.23	0.005 91	1.00
5G_UNII-1_802.11ac_VHT20	5 200.00	6.00	3.98	2.79	0.001 51	1.00

Note:

- The calculation was performed using the source-based time-averaged power.

IC

RF Exposure evaluation

Calculation Result of Field reference level (FRL)

Mode	Frequency [MHz]	Max Tune up power [dBm]	Ant Gain [dBi]	E.I.R.P [dBm]	E.I.R.P [W]	Limit [W]
Bluetooth Low Energy (1Mbps)	2 402.00	3.00	2.23	5.23	0.003 33	2.68
2.4G_802.11n HT20	2 437.00	12.50	2.23	14.73	0.029 72	2.70

Notes:

- e.i.r.p. (dBm) = Conducted output power(dBm) + Antenna gain(dBi)
- Limit (W) = $(1.31 \times 10^{-2} f^{0.6834})$, f is in MHz

End of test report