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## **FCC MPE REPORT**

**FCC Certification** 

Applicant Name:

FRTEK CO., LTD.

Address:

11-25, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

Date of Issue:

March 20, 2019

Location of test lab:

HCT CO., LTD.,

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1904-FC004

FCC ID: 2AFEG-2100-24

APPLICANT: FRTEK CO., LTD.

Model: ROTECH2100-70FRT

**EUT Type:** INOVA ERU

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

**HCT CO., LTD.** Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Kyung Soo Kang Engineer of Telecommunication testing center Approved by: Yong Hyun Lee
Manager of Telecommunication testing center

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Report No.: HCT-RF-1904-FC004 FCC ID: 2AFEG-2100-24

# **Version**

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1904-FC004	March 20, 2019	- First Approval Report

F-TP22-03 (Rev.00) 2 / 4 **HCT CO.,LTD.** 



Report No.: HCT-RF-1904-FC004 FCC ID: 2AFEG-2100-24

## **RF Exposure Statement**

### 1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

#### (B) Limits for General Population/Uncontrolled Exposures

Frequency range	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30

F = frequency in MHz

### 2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

 $S = PG/4\pi R^2$ 

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

<sup>\* =</sup> Plane-wave equivalent power density





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## 3. RESULTS

## - AWS

Max Peak output Power at antenna input terminal	25.000	dBm
Max Peak output Power at antenna input terminal	316.23	mW
Prediction distance	20.00	cm
Prediction frequency	2 112.50	MHz
Antenna Gain(typical)	6.000	dBi
Antenna Gain(numeric)	3.981	-
Power density at prediction frequency(S)	0.250	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm2