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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-FC002

FCC ID: 2AFEG-1900-24

APPLICANT: FRTEK CO., LTD.

Model: ROTECH1900-65FRT

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-FC002 FCC ID: 2AFEG-1900-24

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1904-FC002	March 20, 2019	- First Approval Report

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



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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

^{* =} Plane-wave equivalent power density



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3. RESULTS

- PCS - WCDMA

Max Peak output Power at antenna input terminal	25.00	dBm
Max Peak output Power at antenna input terminal	316.23	mW
Prediction distance	20.00	cm
Prediction frequency	1 932.50	MHz
Antenna Gain(typical)	6.000	dBi
Antenna Gain(numeric)	3.981	-
Power density at prediction frequency(S)	0.250	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm2