RF Exposure Report

Report No.:	SA190227E02
FCC ID:	2AN3BVS93G004
Test Model:	VS-93G004
Received Date:	Feb. 27, 2019
Test Date:	July 02, 2019
Issued Date:	July 05, 2019
Applicant:	CUBTEK INC.
Address:	Rm. 7, 6F., No.38, Taiyuan St., Zhubei City, Hsinchu County 30265, Taiwan (R.O.C.)
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA190227E02	Original release.	July 05, 2019

1 Certificate of Conformity

Product:	77GHz Radar
Brand:	CubTEK
Test Model:	VS-93G004
Sample Status:	ENGINEERING SAMPLE
Applicant:	CUBTEK INC.
Test Date:	July 02, 2019
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** July 05, 2019

Claire Kuan / Specialist

Approved by : _____ , **Date:** July 05, 2019

May Chen / Manager

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
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
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Type	Antenna Gain (dBi)	Connector Type	Frequency range (GHz)
Printed Antenna	13.6	none	76 ~ 77

2.5 Calculation Result

Frequency range (MHz)	Pout EIRP (dBm) (Peak)	Pout EIRP (mW) (Peak)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
76500	23.30	213.796	20	0.04253	1

--- END ---