RF Exposure Report

Report No.:	SA190502E01
FCC ID:	2ACDX-LRR25
Test Model:	LRR-25
Received Date:	May 02, 2019
Test Date:	May 13, 2019
Issued Date:	June 19, 2019
Applicant:	MANDO corp.
Address:	21, Pangyo-ro 255 beon-gil, Bundang-gu, Gyeonggi-do, Seongnam-si, 463-400, Republic of Korea
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
SA190502E01	Original release.	June 19, 2019

1 Certificate of Conformity

Product:	Advanced Smart Cruise Control System
Brand:	Mando
Test Model:	LRR-25
Sample Status:	ENGINEERING SAMPLE
Applicant:	MANDO corp.
Test Date:	May 13, 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:** June 19, 2019

Wendy Wu / Specialist

Approved by : _____ , **Date:** June 19, 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 80cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna No.	Frequency range (GHz)	Antenna Net Gain (dBi)	Antenna Type	Connector Type
TX 1	76 ~ 77	21	Patch	micro strip line
TX 2	76 ~ 77	14	Patch	micro strip line

2.5 Calculation Result

Frequency (GHz)	Total EIRP Power (dBm) (Average)	Total EIRP Power (mW) (Average)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
76.5	48.50	70794.6	80	0.88026	1

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