



FCC MPE REPORT

Certification

Applicant Name: Safetrust Inc	Date of Issue: July 12, 2019 Test Site/Location:
Address: 8116 Mill Creek Rd.	EMCE Engineering 1726 Ringwood Avenue San Jose, California USA
Fremont, CA 94539, U.S.A.	Report No.: EMCE-R-1907-F005

FCC ID:	2ANI5SA200
IC:	23133-SA200
APPLICANT:	Safetrust Inc

Model:	SA200
Additional Model:	N/A
EUT Type:	SABRE Module

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.

EMCE Engineering, Inc. 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)

m

 Steve In
 Billy Kim

 Test Engineer
 Technical Manager

 Certification Division
 Certification Division

Report No.: EMCE-R-1907-F005

This document may not be copied or reproduced (reprinted) without written consent by EMCE Engineering, Inc. EMCE Engineering, Inc., 1726 Ringwood Avenue, San Jose, CA 95131, USA TEL: +1-510-933-8848 FAX: +1-510-933-8849





Version

TEST REPORT NO.	DATE	DESCRIPTION
EMCE-R-1907-F005	July 12, 2019	- First Approval Report

Report No.: EMCE-R-1907-F005





RF Exposure Statement

1. LIMITS

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

Frequency range (MHz)	Electric field Strength (V/m)	Magneticfield Strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
0.3 - 1.34	614	1.63	*(100)	3
1.34 - 30	824/f	2.19/f	*(180/ f ²)	3
30 - 300	27.5	0.073	0.2	3
300 - 1500			f/1500	3
1500 - 100.000			1.0	3

(B) Limits for General Population/Uncontrolled Exposures

F = frequency in MHz

* = Plane-wave equivalent power density

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





3. RESULTS

2_1	Bluetooth
J-T.	Didetootii

Average output Power at antenna input terminal	1.74	dBm
Average output Power at antenna input terminal	1.49	mW
Prediction distance	20.000	cm
Prediction frequency	2402 ~ 2480	MHz
Antenna Gain(typical)	2.0	dBi
Antenna Gain(numeric)	1.59	-
Power density at prediction frequency(S)	0.000471	mW/cm²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm²

<u>3-2. DTS</u>

Average output Power at antenna input terminal	18.75	dBm
Average output Power at antenna input terminal	74.99	mW
Prediction distance	20.000	cm
Prediction frequency	2 412 ~ 2 462	MHz
Antenna Gain(typical)	2	dBi
Antenna Gain(numeric)	1.59	-
Power density at prediction frequency(S)	0.023645	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm²

-> Worst Case: Simultaneous MPE 20cm is

Simultaneous MPE 20cm is WLAN(2.4 GHz) (0.023645/1.0) + Bluetooth (0.000471/1.0) = 0.024116 < 1