US Tech Test Report:	FCC Part 15 Certification
FCC ID:	2AUFI-FT-06FLC
Test Report Number:	20-0196
Issue Date:	July 6, 2020
Customer:	OKYANUS TEKNOLOJI
Model:	FT-06FLC

Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S** as per the respective limits in Table 1 below, at a distance, d, of 20 cm from the EUT.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging 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/f²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Therefore, for:

MPE for 2400 MHz – 2483.5 MHz

Limit: 1 mW/cm²
Peak Power (dBm) = +9.0 dBm
Peak Power (Watts) = 0.008 W
Gain of Transmit Antenna = 2.8 dB$_i$ = 1.91, numeric
d = Distance = 20 cm = 0.2 m

$$S = (PG/ 4\pi d^2) = EIRP/4A = 0.008*(1.91)/4*\pi*0.2*0.2$$
$$=0.0153/0.5030 = 0.0304 \text{ W/m}^2$$
$$= (0.0304 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2)$$
$$= 0.00304 \text{ mW/cm}^2$$

which is << less than S = 1 mW/cm²

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Therefore, for:

MPE for 4308.00 MHz (UWB Radio #1) FCC ID: 2AUFI-UWB001

Limit: 1 mW/cm^2
Peak Power (dBuV/m) = 70.30 dBuV/m @ 3
Peak Power (dBm) = 70.30 dBuV/m + 20 log(3) − 104.8 = -24.85 dBm
Peak Power (Watts) = 0.000003 W
Gain of Transmit Antenna = 2.6 dB$_i$ = 1.82, numeric
d = Distance = 20 cm = 0.2 m

$S = (PG/ 4\pi d^2)$ = EIRP/4A = 0.000003*(1.82)/4*π*0.2*0.2
=0.000006/0.5030 = 0.000011W/m^2
= (0.000011 W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.0000011 mW/cm^2

which is << less than S = 1 mW/cm^2

MPE for 4308.00 MHz (UWB Radio #2) FCC ID: 2AUFI-UWB001

Limit: 1 mW/cm^2
Peak Power (dBuV/m) = 70.30 dBuV/m @ 3
Peak Power (dBm) = 70.30 dBuV/m + 20 log(3) − 104.8 = -24.85 dBm
Peak Power (Watts) = 0.000003 W
Gain of Transmit Antenna = 2.6 dB$_i$ = 1.82, numeric
d = Distance = 20 cm = 0.2 m

$S = (PG/ 4\pi d^2)$ = EIRP/4A = 0.000003*(1.82)/4*π*0.2*0.2
=0.000006/0.5030 = 0.000011W/m^2
= (0.000011 W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.0000011 mW/cm^2

which is << less than S = 1 mW/cm^2

Summation:

0.0000011 mW/cm^2 + 0.0000011 mW/cm^2 = 0.0000022 mW/cm^2

which is << less than S = 1 mW/cm^2