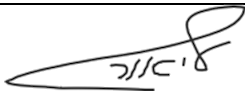




RF Exposure Evaluation Report

Applicant	Miltel Communications Ltd.
Applicant address	7 Gush E'tzion Street, 4th Floor, Givat Shmuel 54030, Israel
EUT	Telemetry Endpoint
FCC ID	MLLC2-EP
Standard(s)	47CFR Parts 2; 90
Test report no.	Ra292360.06

Prepared by:	Ram Ezrah	
Reviewed by:	Lior Tenenbaum	
Test Laboratory:	I.T.L. Product Testing Ltd. 3 HaOreg Street, Modi'in 7177909, Israel	
Date:	15 September 2025	



1 EUT Information

Model no.	C2-10-P-L1
Power supply	Battery, 3.0/3.65V
Antenna type	Integral
Antenna gain (max.)	-2dBi
Assigned frequency range	450MHz to 470MHz
Operating frequency range	450MHz to 470MHz
Transmit power (conducted, Max.)	27 dBm
Modulation bandwidth	12.5 kHz
Bit rate	12 Kb/s
Test separation distance	200 cm
Evaluation Methods and Limits	FCC: KDB447498 D01 V06

• 47 CFR Section 1.1310(e)(1)

The limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields are described in Table 1 to § 1.1310(e)(1). See below.

Table 1 to § 1.1310(e)(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)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30



1.1 Calculated MPE

1. Max. power (conducted, calculated): 489.7 mW
2. Antenna gain: -2.0 dBi = 0.63 (numeric)
3. Minimum distance from human body: 200 cm
4. The power density was calculated using the following formula:
$$S = \frac{P_t G_t}{4\pi R^2}$$
where:
 - S: Power density (FCC: mW/cm²; ISED: W/m²)
 - P_t: Conducted Transmitted Power (FCC: mW; ISED: W)
 - G_t: Antenna Gain (numeric)
 - R: Distance from Transmitter (FCC: cm; ISED: m)

2 Test Results

2.1 FCC

Frequency (MHz)	Calculation (mW/cm ²)	MPE limit (mW/cm ²)	Verdict
470MHz	$489.7 \times 0.63 / 4 \times 3.14 \times 200 \times 200 = 0.00061$	$470 / 1500 = 0.31$	Pass

3 Conclusion

The measurement results comply with the limits per the abovementioned FCC and ISED requirements.

End of Report