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RF EXPOSURE EVALUATION
Maximum Permissible Exposure (MPE)

Applicant Name:
Telit Communications S.p.A.
Viale Stazione di Prosecco 5/b
Trieste, 34010
Italy

Date of Testing:
09/22/2023
Test Report Issue Date:
09/22/2023
Test Site/Location:
Element lab., Columbia, MD, USA
Test Report Serial No.:
1M2306220083-05.RI7

FCC ID:	**RI7FN990A40**
APPLICANT:	**Telit Communications S.p.A.**

Application Type:	Class II Permissive Change
Model:	FN990A40
EUT Type:	Module
FCC Classifications:	PCS Licensed Transmitter (PCB), Citizens Band End User Devices (CBE)
FCC Rule Part:	FCC Part 1 (§1.1310) and Part 2 (§2.1091)
Class II Permissive Change:	Adding additional bandwidth capabilities to 5G NR bands as shown in this filing
Original Grant Date:	12/19/2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC KDB 447498 D01. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President

ACCREDITED
CERT #2041.01

1.0 SUMMARY

This C2PC application is to add the following additional bandwidth capabilities to the corresponding 5G NR bands:

- 5MHz bandwidth to 5G NR n30
- 10MHz bandwidth to 5G NR n78
- 10MHz bandwidth to 5G NR n48

The maximum allowed conducted power and antenna gains from the original filing are still relevant to this C2PC filing as no changes are made. As such, the following tables show continued compliance for these bands with the enhanced bandwidth capabilities:

Frequency	2305	MHz		
Limit	1.000	mW/cm^2		
Distance (cm), R =	20	cm		
Power (dBm), P =	23	dBm	199.53	mW
TX Ant Gain (dBi), G =	1	dBi		
Power Density (S) =	**0.050**	mW/cm^2	(at 20cm)	
Minimum Distance =	**4.5**	cm		

Table 1-1. MPE Calculation for 5G NR Band n30

Frequency:	3450	MHz		
Limit:	1.000	mW/cm^2		
Distance (cm), R =	20	cm		
Power (dBm), P =	27.5	dBm	562.34	mW
TX Ant Gain (dBi), G =	2.5	dBi		
Power Density (S) =	**0.199**	mW/cm^2	(at 20cm)	
Minimum Distance =	**8.9**	cm		

Table 1-2. MPE Calculation for 5G NR Band n78

Frequency	3550	MHz		
Limit	1.000	mW/cm^2		
Distance (cm), R =	20	cm		
Power (dBm), P =	22.5	dBm	177.83	mW
TX Ant Gain (dB), G =	0.5	dBi		
Power Density (S) =	**0.040**	mW/cm^2	(at 20cm)	
Minimum Distance =	**4.0**	cm		

Table 1-3. MPE Calculation for 5G NR Band n48

The device meets the mobile RF exposure limit at a 20cm separation distance as specified in §2.1091 of the FCC Rules and Regulations and Health Canada Safety Code 6. An appropriate RF exposure compliance statement will be placed in the user's manual.