

RF EXPOSURE EVALUATION REPORT

FCC ID : RI7FN980
Equipment : 5G/ LTE M.2 Data Card
Brand Name : Telit
Model Name : FN980
Applicant : TELIT COMMUNICATIONS S.P.A.
VIA STAZIONE DI PROSECCO 5B - SGONICO -TRIESTE - ITALY
Manufacturer : TELIT COMMUNICATIONS S.P.A.
VIA STAZIONE DI PROSECCO 5B - SGONICO -TRIESTE - ITALY
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 1.1307 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA031715-15	Rev. 01	Initial issue of report	Jun. 13, 2022



1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	5G/ LTE M.2 Data Card
Brand Name	Telit
Model Name	FN980
FCC ID	RI7FN980
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3550 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3800 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3450MHz ~ 3550MHz, 3700 MHz ~ 3980 MHz 5G NR n78 : 3450MHz ~ 3550MHz, 3700 MHz ~ 3980 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM
HW Version	1.00 2.10
SW Version	M0H.030201
EUT Stage	Production Unit
Remark:	
1. Hardware changes that does not affect RF characteristics, all the test case which can be referred to Sporton SAR Test Report, Report No: FA031715-02.	

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Reviewed by: Jason Wang

Report Producer: Daisy Peng



2. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300-1500			f/300	6
1500-100,000			5	6
(B) 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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



3. Radio Frequency Radiation Exposure Evaluation

3.1. Standalone Power Density Calculation

<UMTS>

Band	Lowest Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	MPE evaluation distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW/cm ²)	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	FCC EIRP/ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider same Frequency with LTE	Max gain allowed (dBi)
5	824	24.5	100	24.50	0.2	0.549	2.576	0.258	0.258	0.4876	7.00	38.5	11.50	40.6	9.9	14.0	9.9	6.6	16.1	6.6	3.5	3.5
4	1710	25.0	100	25.00	0.2	1.000	4.242	0.424	0.424	0.4692	1.00	30.0	1.00	30.0	12.0	5.0	5.0	8.3	5.0	5.0	5.5	5.0
2	1850	25.0	100	25.00	0.2	1.000	4.476	0.448	0.448	0.5598	2.00	33.0	2.00	33.0	12.0	8.0	8.0	8.5	8.0	8.0	6.0	6.0

<LTE>

Band	Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	Distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW/cm ²)	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider EN-DC Active	Max gain allowed (dBi)
71	663	24.5	100	24.50	0.2	0.442	2.220	0.222	0.222	0.5042	3.00	34.8	3.00	34.8	9.0	10.3	9.0	6.0	10.3	6.0	3.0	3.0
12	699	24.5	100	24.50	0.2	0.466	2.302	0.230	0.230	0.4863	3.00	34.8	5.00	37.0	9.2	10.3	9.2	6.1	12.5	6.1	3.0	3.0
17	704	24.5	100	24.50	0.2	0.469	2.313	0.231	0.231	0.5430	3.00	34.8	5.00	37.0	9.2	10.3	9.2	6.2	12.5	6.2	3.5	3.5
13	777	24.5	100	24.50	0.2	0.518	2.474	0.247	0.247	0.5076	3.00	34.8	5.00	37.0	9.7	10.3	9.7	6.4	12.5	6.4	3.5	3.5
14	788	24.5	100	24.50	0.2	0.525	2.498	0.250	0.250	0.5027	3.00	34.8	3.00	34.8	9.7	10.3	9.7	6.5	10.3	6.5	3.5	3.5
26	814	23.5	100	23.50	0.2	0.543	2.554	0.255	0.255	0.4917	7.00	38.5	11.50	40.6	10.9	15.0	10.9	7.6	17.1	7.6	4.5	4.5
5	824	24.0	100	24.00	0.2	0.549	2.576	0.258	0.258	0.4346	7.00	38.5	11.50	40.6	10.4	14.5	10.4	7.1	16.6	7.1	3.5	3.5
4	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	1.00	30.0	13.5	6.5	6.5	9.8	6.5	6.5	5.5	5.5
66	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	1.00	30.0	13.5	6.5	6.5	9.8	6.5	6.5	5.5	5.5
2	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3963	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.0	9.5	9.5	6.0	6.0
25	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3963	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.0	9.5	9.5	6.0	6.0
30	2305	23.5	100	23.50	0.2	1.000	5.202	0.520	0.520	0.0957	0.25	24.0	0.25	24.0	13.5	0.5	0.5	10.7	0.5	0.5	0.5	0.5
41	2496	26.0	100	26.00	0.2	1.000	5.493	0.549	0.549	0.5118	2.00	33.0	2.00	33.0	11.0	7.0	7.0	8.4	7.0	7.0	5.5	5.5
7	2500	23.5	100	23.50	0.2	1.000	5.499	0.550	0.550	0.2875	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.9	9.5	9.5	5.5	5.5
38	2570	23.5	100	23.50	0.2	1.000	5.604	0.560	0.560	0.2821	2.00	33.0	2.00	33.0	13.5	9.5	9.5	11.0	9.5	9.5	5.5	5.5
48	3400	22.5	100	22.50	0.2	1.000	6.785	0.678	0.678	0.0585	0.20	23.0	0.20	23.0	14.5	0.5	0.5	12.8	0.5	0.5	0.5	0.5
42	3550	22.5	100	22.50	0.2	1.000	6.988	0.699	0.699	0.0568	0.20	23.0	0.20	23.0	14.5	0.5	0.5	13.0	0.5	0.5	0.5	0.5
43	3600	22.5	100	22.50	0.2	1.000	7.055	0.706	0.706	0.0564	0.20	23.0	0.20	23.0	14.5	0.5	0.5	13.0	0.5	0.5	1.0	0.5



<5G NR>

Band	Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	Distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW)/cm ²	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider EN-DC Active	Max gain allowed (dBi)
n71	663	24.0	100	24.00	0.2	0.442	2.220	0.222	0.222	0.4494	3.00	34.8	3.00	34.8	9.5	10.8	9.5	6.5	10.8	6.5	3.0	3.0
n12	699	24.0	100	24.00	0.2	0.466	2.302	0.230	0.230	0.4334	3.00	34.8	5.00	37.0	9.7	10.8	9.7	6.6	13.0	6.6	3.0	3.0
n5	824	24.0	100	24.00	0.2	0.549	2.576	0.258	0.258	0.4346	7.00	38.5	1.00	30.0	10.4	14.5	10.4	7.1	6.0	6.0	3.5	3.5
n66	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	5.00	37.0	13.5	6.5	6.5	9.8	13.5	9.8	5.5	5.5
n2	1850	24.0	100	24.00	0.2	1.000	4.476	0.448	0.448	0.4447	2.00	33.0	2.00	33.0	13.0	9.0	9.0	9.5	9.0	9.0	6.0	6.0
n25	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3963	3.00	34.8	5.00	37.0	13.5	11.3	11.3	10.0	13.5	10.0	6.0	6.0
n7	2500	24.0	100	24.00	0.2	1.000	5.499	0.550	0.550	0.3226	2.00	33.0	2.00	33.0	13.0	9.0	9.0	10.4	9.0	9.0	5.5	5.5
n41	2496	26.0	100	26.00	0.2	1.000	5.493	0.549	0.549	0.4257	2.00	33.0	2.00	33.0	11.0	7.0	7.0	8.4	7.0	7.0	4.7	4.7
n77	3700	26.5	100	26.50	0.2	1.000	7.189	0.719	0.719	0.2769	1.00	30.0	3.00	34.8	10.5	3.5	3.5	9.1	8.3	8.3	3.5	3.5
n77	3450	26.5	100	26.50	0.2	1.000	6.853	0.685	0.685	0.2904	1.00	30.0	4.00	36.0	10.5	3.5	3.5	8.9	9.5	8.9	3.5	3.5
n78	3700	24.0	100	24.00	0.2	1.000	7.189	0.719	0.719	0.1557	1.00	30.0	5.00	37.0	13.0	6.0	6.0	11.6	13.0	11.6	3.5	3.5
n78	3450	24.0	100	24.00	0.2	1.000	6.853	0.685	0.685	0.1633	1.00	30.0	6.00	37.8	13.0	6.0	6.0	11.4	13.8	11.4	3.5	3.5

<EN-DC Simtaneous Transmission analysis>

EN-DC		Σ (Power Density / Limit) of LTE + 5G NR
LTE Power Density / Limit	5G NR Power Density / Limit	
0.5430	0.4494	0.9924

General Note:

- The device support 5G FR1 NSA mode, consider collocation analysis to selected worst case LTE and 5G NR power density / limit to summation to show compliance
- Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for LTE + 5G NR.
- Considering the collocation with the four transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant



3.2. EN-DC active and transmit with WLAN/BT

<UMTS>

Band	Lowest Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	MPE evaluation distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW/cm ²)	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	FCC EIRP/ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider the same Frequency	Max gain allowed (dBi)
5	824	24.5	100	24.50	0.2	0.549	2.576	0.258	0.258	0.4876	7.00	38.5	11.50	40.6	9.9	14.0	9.9	6.6	16.1	6.6	3.5	3.5
4	1710	25.0	100	25.00	0.2	1.000	4.242	0.424	0.424	0.4692	1.00	30.0	1.00	30.0	12.0	5.0	5.0	8.3	5.0	5.0	5.5	5.0
2	1850	25.0	100	25.00	0.2	1.000	4.476	0.448	0.448	0.5471	2.00	33.0	2.00	33.0	12.0	8.0	8.0	8.5	8.0	8.0	5.9	5.9

<LTE>

Band	Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	Distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW/cm ²)	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider EN-DC Transmit with WLAN	Max gain allowed (dBi)
71	663	24.5	100	24.50	0.2	0.442	2.220	0.222	0.222	0.4598	3.00	34.8	3.00	34.8	9.0	10.3	9.0	6.0	10.3	6.0	2.6	2.6
12	699	24.5	100	24.50	0.2	0.466	2.302	0.230	0.230	0.4435	3.00	34.8	5.00	37.0	9.2	10.3	9.2	6.1	12.5	6.1	2.6	2.6
17	704	24.5	100	24.50	0.2	0.469	2.313	0.231	0.231	0.4414	3.00	34.8	5.00	37.0	9.2	10.3	9.2	6.2	12.5	6.2	2.6	2.6
13	777	24.5	100	24.50	0.2	0.518	2.474	0.247	0.247	0.4421	3.00	34.8	5.00	37.0	9.7	10.3	9.7	6.4	12.5	6.4	2.9	2.9
14	788	24.5	100	24.50	0.2	0.525	2.498	0.250	0.250	0.4481	3.00	34.8	3.00	34.8	9.7	10.3	9.7	6.5	10.3	6.5	3.0	3.0
26	814	23.5	100	23.50	0.2	0.543	2.554	0.255	0.255	0.4484	7.00	38.5	11.50	40.6	10.9	15.0	10.9	7.6	17.1	7.6	4.1	4.1
5	824	24.0	100	24.00	0.2	0.549	2.576	0.258	0.258	0.4346	7.00	38.5	11.50	40.6	10.4	14.5	10.4	7.1	16.6	7.1	3.5	3.5
4	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	1.00	30.0	13.5	6.5	6.5	9.8	6.5	6.5	5.5	5.5
66	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	1.00	30.0	13.5	6.5	6.5	9.8	6.5	6.5	5.5	5.5
2	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3873	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.0	9.5	9.5	5.9	5.9
25	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3873	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.0	9.5	9.5	5.9	5.9
30	2305	23.5	100	23.50	0.2	1.000	5.202	0.520	0.520	0.0957	0.25	24.0	0.25	24.0	13.5	0.5	0.5	10.7	0.5	0.5	0.5	0.5
41	2496	26.0	100	26.00	0.2	1.000	5.493	0.549	0.549	0.4458	2.00	33.0	2.00	33.0	11.0	7.0	7.0	8.4	7.0	7.0	4.9	4.9
7	2500	23.5	100	23.50	0.2	1.000	5.499	0.550	0.550	0.2504	2.00	33.0	2.00	33.0	13.5	9.5	9.5	10.9	9.5	9.5	4.9	4.9
38	2570	23.5	100	23.50	0.2	1.000	5.604	0.560	0.560	0.2457	2.00	33.0	2.00	33.0	13.5	9.5	9.5	11.0	9.5	9.5	4.9	4.9
48	3400	22.5	100	22.50	0.2	1.000	6.785	0.678	0.678	0.0585	0.20	23.0	0.20	23.0	14.5	0.5	0.5	12.8	0.5	0.5	0.5	0.5
42	3550	22.5	100	22.50	0.2	1.000	6.988	0.699	0.699	0.0568	0.20	23.0	0.20	23.0	14.5	0.5	0.5	13.0	0.5	0.5	0.5	0.5
43	3600	22.5	100	22.50	0.2	1.000	7.055	0.706	0.706	0.0564	0.20	23.0	0.20	23.0	14.5	0.5	0.5	13.0	0.5	0.5	1.0	0.5



<5G FR1>

Band	Frequency (MHz)	Max Conducted output power (per Tune-up) (dBm)	Duty Cycle (%)	AVG Power with Duty Cycle (dBm)	Distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW)/cm ²	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit Ratio	FCC EIRP/ERP limit (W)	ERP limit (dBm)	IC EIRP/ERP limit (W)	IC EIRP/ERP limit (dBm)	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Ant Gain to meet IC MPE limit (dBi)	Ant Gain to meet IC ERP/EIRP limit (dBi)	Max Gain to meet IC ERP/EIRP and MPE limit (dBi)	Max Gain to consider EN-DC Transmit with WLAN	Max gain allowed (dBi)
n71	663	24.0	100	24.00	0.2	0.442	2.220	0.222	0.222	0.4098	3.00	34.8	3.00	34.8	9.5	10.8	9.5	6.5	10.8	6.5	2.6	2.6
n12	699	24.0	100	24.00	0.2	0.466	2.302	0.230	0.230	0.3953	3.00	34.8	5.00	37.0	9.7	10.8	9.7	6.6	13.0	6.6	2.6	2.6
n5	824	24.0	100	24.00	0.2	0.549	2.576	0.258	0.258	0.4346	7.00	38.5	1.00	30.0	10.4	14.5	10.4	7.1	6.0	6.0	3.5	3.5
n66	1710	23.5	100	23.50	0.2	1.000	4.242	0.424	0.424	0.3727	1.00	30.0	5.00	37.0	13.5	6.5	6.5	9.8	13.5	9.8	5.5	5.5
n2	1850	24.0	100	24.00	0.2	1.000	4.476	0.448	0.448	0.4345	2.00	33.0	2.00	33.0	13.0	9.0	9.0	9.5	9.0	9.0	5.9	5.9
n25	1850	23.5	100	23.50	0.2	1.000	4.476	0.448	0.448	0.3873	3.00	34.8	5.00	37.0	13.5	11.3	11.3	10.0	13.5	10.0	5.9	5.9
n7	2500	24.0	100	24.00	0.2	1.000	5.499	0.550	0.550	0.2810	2.00	33.0	2.00	33.0	13.0	9.0	9.0	10.4	9.0	9.0	4.9	4.9
n41	2496	26.0	100	26.00	0.2	1.000	5.493	0.549	0.549	0.4257	2.00	33.0	2.00	33.0	11.0	7.0	7.0	8.4	7.0	7.0	4.7	4.7
n77	3700	26.5	100	26.50	0.2	1.000	7.189	0.719	0.719	0.2769	1.00	30.0	3.00	34.8	10.5	3.5	3.5	9.1	8.3	8.3	3.5	3.5
n77	3450	26.5	100	26.50	0.2	1.000	6.853	0.685	0.685	0.2904	1.00	30.0	4.00	36.0	10.5	3.5	3.5	8.9	9.5	8.9	3.5	3.5
n78	3700	24.0	100	24.00	0.2	1.000	7.189	0.719	0.719	0.2769	1.00	30.0	5.00	37.0	13.0	6.0	6.0	11.6	13.0	11.6	6.0	6.0
n78	3450	24.0	100	24.00	0.2	1.000	6.853	0.685	0.685	0.2904	1.00	30.0	6.00	37.8	13.0	6.0	6.0	11.4	13.8	11.4	6.0	6.0

<WLAN/BT>

Band	Frequency (MHz)	Max EIRP (dBm)	Duty Cycle (%)	AVG EIRP with Duty Cycle (dBm)	Distance (m)	FCC MPE Limit (mW/cm ²)	IC MPE Limit (W/m ²)	IC MPE Limit (mW)/cm ²	FCC/IC MPE Limit (mW)/cm ²	FCC/IC MPE Result / FCC/IC MPE Limit (mW)/cm ²
2.4GHz WLAN	2402	24.0	100	24.00	0.2	1.000	5.351	0.535	0.535	0.093
5GHz WLAN	5150	24.0	100	24.00	0.2	1.000	9.011	0.901	0.901	0.055
Bluetooth	2402	15.0	100	15.00	0.2	1.000	5.351	0.535	0.535	0.012

General Note:

- This MPE analysis is applicable to any collocated transmitters with transmit power for WLAN EIRP is estimated 24dBm and for Bluetooth EIRP is estimated 15dBm

<EN-DC Simtaneous Transmission analysis with WLAN/BT>

EN-DC		WLAN Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of LTE + 5G NR + WLAN + Bluetooth
LTE Power Density / Limit	5G NR Power Density / Limit			
0.4598	0.4346	0.0934	0.0118	0.9996

General Note:

- The device support 5G FR1 NSA mode, consider colocation analysis to selected worst case LTE and 5G NR power density / limit to summation to show compliance
- Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)], for LTE + 5G NR + WLAN + Bluetooth when EN-DC is active.
- Considering the collocation with the four transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 4 collocated transmitters is compliant

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.