

RF EXPOSURE EVALUATION REPORT

FCC ID : TVE-110T17
Equipment : Bluetooth Low Energy Module
Brand Name : 
Model Name : FORTINET FBLE-2024TI
Marketing Name : Bluetooth Low Energy Module
Applicant : Fortinet Inc.
909 Kifer Rd., Sunnyvale, CA 94086, United States
Manufacturer : Fortinet Inc.
909 Kifer Rd., Sunnyvale, CA 94086, United States
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 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. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



SPORTON INTERNATIONAL INC. Wensan Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FA3D0610-05	Rev. 01	Initial issue of report	May 22, 2025

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Bluetooth Low Energy Module
Brand Name	FORTINET 
Model Name	FBLE-2024TI
Marketing Name	Bluetooth Low Energy Module
FCC ID	TVE-110T17
Wireless Technology and Frequency Range	Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	Bluetooth LE

Host information	
Equipment Name	Network Security Gateway
Brand Name	FORTINET 
Model Name	FortiGate 50G-5Gxxxxxxx, FORTIGATE-50G-5Gxxxxxxx, FG-50G-5Gxxxxxxx, FortiGate 51G-5Gxxxxxxx, FORTIGATE-51G-5Gxxxxxxx, FG-51G-5Gxxxxxxx, FortiWiFi 50G-5Gxxxxxxx, FORTIWIFI-50G-5Gxxxxxxx, FWF-50G-5Gxxxxxxx, FortiWiFi 51G-5Gxxxxxxx, FORTIWIFI-51G-5Gxxxxxxx, FWF-51G-5Gxxxxxxx, FortiWiFi 50G-5G-Ilxxxxxxx, FORTIWIFI-50G-5G-Ilxxxxxxx, FWF-50G-5G-Ilxxxxxxx, FortiWiFi 51G-5G-Ilxxxxxxx, FORTIWIFI-51G-5G-Ilxxxxxxx, FWF-51G-5G-Ilxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software purposes or marketing purposes only)
Marketing Name	FortiGate 50G-5G, FortiGate 51G-5G, FortiWiFi 50G-5G, FortiWiFi 51G-5G, FortiWiFi 50G-5G-Il, FortiWiFi 51G-5G-Il

WLAN Information	
FCC ID	TVE-3901M12
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz
Mode	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80
Remark: 1. The WLAN operation is also integrated into this host, additional power density result Sim-Tx analysis is meet FCC requirement.	



Integrated WWAN Module	
FCC ID	RI7FN990A28HP
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: 3450 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 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 n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM
Remark: 2. The WWAN operation is also integrated into this host, additional power density result Sim-Tx analysis is meet FCC requirement.	

Reviewed by: Jason Wang**Report Producer: Daisy Peng**

2. Maximum RF average output power among production units

Bluetooth	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	LE 125kbps	0	2402	8.00
		19	2440	8.00
		39	2480	8.00
	LE 500kbps	0	2402	8.00
		19	2440	8.00
		39	2480	8.00
	LE 1Mbps	0	2402	8.00
		19	2440	8.00
		39	2480	8.00
	LE 2Mbps	0	2402	8.00
		19	2440	8.00
		39	2480	8.00

<Non-Beamforming mode>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11b 1Mbps	1	2412	22.00	22.00	25.00
		6	2437	23.50	23.50	26.50
		10	2457	20.50	20.50	23.50
		11	2462	20.00	20.00	23.00
	802.11g 6Mbps	1	2412	19.50	19.50	22.50
		6	2437	21.50	21.50	24.50
		10	2457	18.50	18.50	21.50
		11	2462	17.50	17.50	20.50
	802.11n-HT20 MCS0	1	2412	18.50	18.50	21.50
		6	2437	21.00	21.00	24.00
		10	2457	18.50	18.50	21.50
		11	2462	17.00	17.00	20.00
	802.11n-HT40 MCS0	3	2422	17.00	17.00	20.00
		6	2437	18.00	18.00	21.00
		9	2452	17.00	17.00	20.00
	802.11ax-HE20 MCS0	1	2412	18.50	18.50	21.50
		2	2417	19.00	19.00	22.00
		6	2437	21.50	21.50	24.50
		10	2457	18.50	18.50	21.50
		11	2462	18.00	18.00	21.00
	802.11ax-HE40 MCS0	3	2422	17.00	17.00	20.00
		6	2437	18.00	18.00	21.00
		9	2452	17.00	17.00	20.00



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5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11a 6Mbps	36	5180	21.50	21.50	24.50
		44	5220	24.00	24.00	27.00
		48	5240	25.50	25.50	28.50
	802.11n-HT20 MCS0	36	5180	21.50	21.50	24.50
		44	5220	24.00	24.00	27.00
		48	5240	24.00	24.00	27.00
	802.11n-HT40 MCS0	38	5190	19.00	19.00	22.00
		46	5230	21.00	21.00	24.00
	802.11ac-VHT20 MCS0	36	5180	22.00	22.00	25.00
		44	5220	23.50	23.50	26.50
		48	5240	24.50	24.50	27.50
	802.11ac-VHT40 MCS0	38	5190	19.50	19.50	22.50
		46	5230	21.00	21.00	24.00
	802.11ac-VHT80 MCS0	42	5210	15.50	15.50	18.50
	802.11ax-HE20 MCS0	36	5180	22.00	22.00	25.00
		44	5220	23.50	23.50	26.50
		48	5240	25.50	25.50	28.50
	802.11ax-HE40 MCS0	38	5190	19.00	19.00	22.00
		46	5230	21.00	21.00	24.00
	802.11ax-HE80 MCS0	42	5210	15.00	15.00	18.00

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11a 6Mbps	52	5260	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11n-HT20 MCS0	52	5260	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11n-HT40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	19.50	19.50	22.50
	802.11ac-VHT20 MCS0	52	5260	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	19.50	19.50	22.50
	802.11ac-VHT80 MCS0	58	5290	16.00	16.00	19.00
	802.11ax-HE20 MCS0	52	5260	20.50	20.50	23.50
		60	5300	20.50	20.50	23.50
		64	5320	20.50	20.50	23.50
	802.11ax-HE40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	18.50	18.50	21.50
	802.11ax-HE80 MCS0	58	5290	16.00	16.00	19.00



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5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		140	5700	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
	802.11n-HT20 MCS0	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11n-HT40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ac-VHT20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ac-VHT80 MCS0	106	5530	18.00	18.00	21.00
		122	5610	20.98	20.98	23.98
		138	5690	20.98	20.98	23.98
	802.11ax-HE20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.50	20.50	23.50
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11ax-HE40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ax-HE80 MCS0	106	5530	17.50	17.50	20.50
		122	5610	20.98	20.98	23.98
		138	5690	20.98	20.98	23.98



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5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11a 6Mbps	149	5745	26.80	26.80	29.80
		157	5785	26.70	26.70	29.70
		165	5825	26.50	26.50	29.50
	802.11n-HT20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11n-HT40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ac-VHT20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11ac-VHT40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ac-VHT80 MCS0	155	5775	22.00	22.00	25.00
	802.11ax-HE20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11ax-HE40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ax-HE80 MCS0	155	5775	20.50	20.50	23.50

<Beamforming mode>

	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
2.4GHz WLAN	802.11n-HT20 MCS0	1	2412	18.50	18.50	21.50
		6	2437	21.00	21.00	24.00
		10	2457	18.50	18.50	21.50
		11	2462	17.00	17.00	20.00
	802.11n-HT40 MCS0	3	2422	17.00	17.00	20.00
		6	2437	18.00	18.00	21.00
		9	2452	17.00	17.00	20.00
	802.11ax-HE20 MCS0	1	2412	18.50	18.50	21.50
		2	2417	19.00	19.00	22.00
		6	2437	21.50	21.50	24.50
		10	2457	18.50	18.50	21.50
		11	2462	18.00	18.00	21.00
	802.11ax-HE40 MCS0	3	2422	17.00	17.00	20.00
		6	2437	18.00	18.00	21.00
		9	2452	17.00	17.00	20.00

	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
5.2GHz WLAN	802.11n-HT20 MCS0	36	5180	21.50	21.50	24.50
		44	5220	24.00	24.00	27.00
		48	5240	24.00	24.00	27.00
	802.11n-HT40 MCS0	38	5190	19.00	19.00	22.00
		46	5230	21.00	21.00	24.00
	802.11ac-VHT20 MCS0	36	5180	22.00	22.00	25.00
		44	5220	23.50	23.50	26.50
		48	5240	24.50	24.50	27.50
	802.11ac-VHT40 MCS0	38	5190	19.50	19.50	22.50
		46	5230	21.00	21.00	24.00
	802.11ac-VHT80 MCS0	42	5210	15.50	15.50	18.50
	802.11ax-HE20 MCS0	36	5180	22.00	22.00	25.00
		44	5220	23.50	23.50	26.50
		48	5240	25.50	25.50	28.50
	802.11ax-HE40 MCS0	38	5190	19.00	19.00	22.00
		46	5230	21.00	21.00	24.00
	802.11ax-HE80 MCS0	42	5210	15.00	15.00	18.00

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11n-HT20 MCS0	52	5260	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11n-HT40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	19.50	19.50	22.50
	802.11ac-VHT20 MCS0	52	5260	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	19.50	19.50	22.50
	802.11ac-VHT80 MCS0	58	5290	16.00	16.00	19.00
	802.11ax-HE20 MCS0	52	5260	20.50	20.50	23.50
		60	5300	20.50	20.50	23.50
		64	5320	20.50	20.50	23.50
	802.11ax-HE40 MCS0	54	5270	20.98	20.98	23.98
		62	5310	18.50	18.50	21.50
	802.11ax-HE80 MCS0	58	5290	16.00	16.00	19.00



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5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
5.5GHz WLAN	802.11n-HT20 MCS0	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11n-HT40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ac-VHT20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ac-VHT80 MCS0	106	5530	18.00	18.00	21.00
		122	5610	20.98	20.98	23.98
		138	5690	20.98	20.98	23.98
	802.11ax-HE20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.50	20.50	23.50
		140	5700	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
	802.11ax-HE40 MCS0	102	5510	20.98	20.98	23.98
		110	5550	20.98	20.98	23.98
		134	5670	20.98	20.98	23.98
		142	5710	20.98	20.98	23.98
	802.11ax-HE80 MCS0	106	5530	17.50	17.50	20.50
		122	5610	20.98	20.98	23.98
		138	5690	20.98	20.98	23.98

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Port 3+6 (3) Tune-up Limit	Port 3+6 (6) Tune-up Limit	Port 3+6 Tune-up Limit
	802.11n-HT20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11n-HT40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ac-VHT20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11ac-VHT40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ac-VHT80 MCS0	155	5775	22.00	22.00	25.00
	802.11ax-HE20 MCS0	149	5745	26.90	26.90	29.90
		157	5785	26.70	26.70	29.70
		165	5825	25.50	25.50	28.50
	802.11ax-HE40 MCS0	151	5755	25.50	25.50	28.50
		159	5795	24.50	24.50	27.50
	802.11ax-HE80 MCS0	155	5775	20.50	20.50	23.50

**Integrated WWAN operation**

	Band	Tune-up Power (dBm)
WCDMA	Band II	24.5
	Band IV	24.5
	Band V	24.5
LTE	Band 2	24.0
	Band 4	24.0
	Band 5	24.0
	Band 7	24.0
	Band 12	24.0
	Band 13	24.0
	Band 14	24.0
	Band 17	24.0
	Band 25	24.0
	Band 26	24.0
	Band 30	23.0
	Band 38	24.0
	Band 41	26.5
	Band 42	22.5
	Band 43	22.5
	Band 48	22.5
	Band 66	24.0
	Band 71	24.0
NR	n2	24.5
	n5	24.5
	n7	24.5
	n12	24.0
	n13	24.0
	n14	24.0
	n25	24.5
	n26	24.0
	n30	23.0
	n38	25.0
	n41	27.5
	n41_PC1.5	29.0
	n48	22.5
	n66	24.5
	n71	24.5
	n77	27.5
	n77_PC1.5	29.0
	n78	27.5
	n78_PC1.5	29.0

3. 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



4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

<Bluetooth>

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 23cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
Bluetooth	1.53	8.00	9.5	0.01	8.97	0.002	1.000	0.002

<WWAN>

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 23cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WCDMA Band 2	1.52	24.5	26.0	0.40	399.94	0.060	1.000	0.060
WCDMA Band 4	2.96	24.5	27.5	0.56	557.19	0.084	1.000	0.084
WCDMA Band 5	1.82	24.5	26.3	0.43	428.55	0.064	0.549	0.117
LTE Band 2	1.52	24.0	25.5	0.36	356.45	0.054	1.000	0.054
LTE Band 4	2.96	24.0	27.0	0.50	496.59	0.075	1.000	0.075
LTE Band 5	1.82	24.0	25.8	0.38	381.94	0.057	0.549	0.105
LTE Band 7	0.85	24.0	24.9	0.31	305.49	0.046	1.000	0.046
LTE Band 12	-0.70	24.0	23.3	0.21	213.80	0.032	0.466	0.069
LTE Band 13	-0.33	24.0	23.7	0.23	232.81	0.035	0.518	0.068
LTE Band 14	0.30	24.0	24.3	0.27	269.15	0.041	0.525	0.077
LTE Band 17	-0.76	24.0	23.2	0.21	210.86	0.032	0.469	0.068
LTE Band 25	1.68	24.0	25.7	0.37	369.83	0.056	1.000	0.056
LTE Band 26	1.82	24.0	25.8	0.38	381.94	0.057	0.543	0.106
LTE Band 30	0.41	23.0	23.4	0.22	219.28	0.033	1.000	0.033
LTE Band 38	0.94	24.0	24.9	0.31	311.89	0.047	1.000	0.047
LTE Band 41	2.62	26.5	29.1	0.82	816.58	0.123	1.000	0.123
LTE Band 42	0.26	22.5	22.8	0.19	188.80	0.028	1.000	0.028
LTE Band 43	0.03	22.5	22.5	0.18	179.06	0.027	1.000	0.027
LTE Band 48	0.03	22.5	22.5	0.18	179.06	0.027	1.000	0.027
LTE Band 66	2.96	24.0	27.0	0.50	496.59	0.075	1.000	0.075
LTE Band 71	-0.55	24.0	23.5	0.22	221.31	0.033	0.442	0.075
5G NR Band 2	1.52	24.5	26.0	0.40	399.94	0.060	1.000	0.060
5G NR Band 5	1.82	24.5	26.3	0.43	428.55	0.064	0.549	0.117
5G NR Band 7	0.85	24.5	25.4	0.34	342.77	0.052	1.000	0.052
5G NR Band 12	-0.70	24.0	23.3	0.21	213.80	0.032	0.466	0.069
5G NR Band 13	-0.33	24.0	23.7	0.23	232.81	0.035	0.518	0.068
5G NR Band 14	0.30	24.0	24.3	0.27	269.15	0.041	0.525	0.077
5G NR Band 25	1.68	24.5	26.2	0.41	414.95	0.062	1.000	0.062
5G NR Band 26	1.82	24.0	25.8	0.38	381.94	0.057	0.543	0.106
5G NR Band 30	0.41	23.0	23.4	0.22	219.28	0.033	1.000	0.033
5G NR Band 38	0.94	25.0	25.9	0.39	392.64	0.059	1.000	0.059
5G NR Band 41	2.62	27.5	30.1	1.03	1028.02	0.155	1.000	0.155
5G NR Band 41_PC1.5	2.62	29.0	31.6	1.45	1452.11	0.219	1.000	0.219
5G NR Band 48	0.03	22.5	22.5	0.18	179.06	0.027	1.000	0.027
5G NR Band 66	2.96	24.5	27.5	0.56	557.19	0.084	1.000	0.084
5G NR Band 71	-0.55	24.5	24.0	0.25	248.31	0.037	0.442	0.085
5G NR Band 77	0.26	27.5	27.8	0.60	597.04	0.090	1.000	0.090
5G NR Band 77_PC1.5	0.26	29.0	29.3	0.84	843.33	0.127	1.000	0.127
5G NR Band 78	0.26	27.5	27.8	0.60	597.04	0.090	1.000	0.090
5G NR Band 78_PC1.5	0.26	29.0	29.3	0.84	843.33	0.127	1.000	0.127

<WLAN>
<Non-Beamforming mode>

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 23cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WLAN2.4GHz Band	0.31	26.50	26.81	0.48	479.73	0.072	1.000	0.072
WLAN5.2GHz Band	2.54	28.50	31.04	1.27	1270.57	0.191	1.000	0.191
WLAN5.3GHz Band	1.88	23.98	25.86	0.39	385.48	0.058	1.000	0.058
WLAN5.5GHz Band	2.45	23.98	26.43	0.44	439.54	0.066	1.000	0.066
WLAN5.8GHz Band	2.50	29.90	32.40	1.74	1737.80	0.262	1.000	0.262

<Beamforming mode>

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 23cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WLAN2.4GHz Band	3.32	24.50	27.82	0.61	605.34	0.091	1.000	0.091
WLAN5.2GHz Band	5.55	28.50	34.05	2.54	2540.97	0.382	1.000	0.382
WLAN5.3GHz Band	4.89	23.98	28.87	0.77	770.90	0.116	1.000	0.116
WLAN5.5GHz Band	5.46	23.98	29.44	0.88	879.02	0.132	1.000	0.132
WLAN5.8GHz Band	5.51	29.90	35.41	3.48	3475.36	0.523	1.000	0.523

Note:

- This device supports Beamforming for WLAN 2.4GHz VHT20/VHT40/HE20/HE40 and WLAN 5GHz HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 only; therefore, in the table above which consider maximum directional Gain 3.32dBi for WLAN 2.4GHz Beamforming mode and 5.55dBi, 4.89dBi, 5.46dBi and 5.51dBi for WLAN 5GHz Beamforming mode.

4.2. Collocated Power Density Calculation
<Non-Beamforming mode>

EN-DC		2.4GHz WLAN Power Density / Limit	5GHz WLAN Power Density / Limit	Bluetooth Power Density / Limit	Σ(Power Density / Limit)
LTE Power Density / Limit	5G NR Power Density / Limit				
0.123	0.219	0.072	0.262	0.002	0.678

<Beamforming mode>

EN-DC		2.4GHz WLAN Power Density / Limit	5GHz WLAN Power Density / Limit	Bluetooth Power Density / Limit	Σ(Power Density / Limit)
LTE Power Density / Limit	5G NR Power Density / Limit				
0.123	0.219	0.091	0.523	0.002	0.958

Note:

- 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.
- Considering all the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 5 collocated transmitters is compliant.

Conclusion:

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