

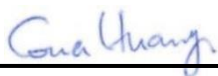
RF EXPOSURE EVALUATION REPORT

FCC ID : 2AEM4-9471214
Equipment : Wireless Router
Brand Name : eero
Model Name : PA10001
Applicant : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Manufacturer : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, 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

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



Table of Contents

1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2. MAXIMUM RF AVERAGE OUTPUT POWER AMONG PRODUCTION UNITS	5
3. RF EXPOSURE LIMIT INTRODUCTION	12
4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	13
4.1. Standalone Power Density Calculation	13
4.2. Collocated Power Density Calculation.....	13



History of this test report

Report No.	Version	Description	Issued Date
FA492020	Rev. 01	Initial issue of report	Dec. 12, 2024

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Wireless Router
Brand Name	eero
Model Name	PA10001
FCC ID	2AEM4-9471214
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 WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz IEEE 802.15.4: 2405 MHz ~ 2480 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT240 Bluetooth LE IEEE 802.15.4: BPSK

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

**2. Maximum RF average output power among production units****<2.4GHz WLAN>**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		
					Ant 0	Ant 1	SUM
11b	1Mbps	1	1	2412	23.10		
11b	1Mbps	1	6	2437	24.20		
11b	1Mbps	1	11	2462	24.10		
11g	6Mbps	1	1	2412	19.10		
11g	6Mbps	1	2	2417	19.20		
11g	6Mbps	1	3	2422	20.70		
11g	6Mbps	1	6	2437	23.00		
11g	6Mbps	1	11	2462	20.00		
HT20	MCS0	1	1	2412	18.60		
HT20	MCS0	1	2	2417	19.10		
HT20	MCS0	1	6	2437	22.10		
HT20	MCS0	1	11	2462	19.10		
HT40	MCS0	1	3	2422	16.40		
HT40	MCS0	1	6	2437	17.90		
HT40	MCS0	1	9	2452	17.30		
HE20	MCS0	1	1	2412	16.90		
HE20	MCS0	1	6	2437	21.60		
HE20	MCS0	1	11	2462	18.70		
HE40	MCS0	1	3	2422	16.10		
HE40	MCS0	1	6	2437	17.80		
HE40	MCS0	1	9	2452	16.00		
EHT20	MCS0	1	1	2412	17.00		
EHT20	MCS0	1	2	2417	18.70		
EHT20	MCS0	1	6	2437	21.70		
EHT20	MCS0	1	11	2462	18.80		
EHT40	MCS0	1	3	2422	16.20		
EHT40	MCS0	1	6	2437	17.90		
EHT40	MCS0	1	9	2452	16.10		
11b	1Mbps	2	1	2412	21.30	21.50	24.41
11b	1Mbps	2	6	2437	24.00	23.50	26.77
11b	1Mbps	2	11	2462	21.20	21.30	24.26
11g	6Mbps	2	1	2412	17.10	17.50	20.31
11g	6Mbps	2	2	2417	17.60	17.90	20.76
11g	6Mbps	2	3	2422	19.40	19.70	22.56
11g	6Mbps	2	6	2437	21.50	21.60	24.56
11g	6Mbps	2	9	2452	19.30	19.30	22.31
11g	6Mbps	2	10	2457	17.50	18.00	20.77
11g	6Mbps	2	11	2462	16.60	17.00	19.81
HT20	MCS0	2	1	2412	16.70	17.20	19.97
HT20	MCS0	2	2	2417	17.80	18.30	21.07
HT20	MCS0	2	6	2437	20.80	21.30	24.07
HT20	MCS0	2	10	2457	18.70	19.10	21.91
HT20	MCS0	2	11	2462	16.10	16.50	19.31
HT40	MCS0	2	3	2422	15.70	15.90	18.81
HT40	MCS0	2	6	2437	17.70	17.70	20.71
HT40	MCS0	2	9	2452	16.60	16.90	19.76
HE20	MCS0	2	1	2412	16.30	16.40	19.36
HE20	MCS0	2	6	2437	20.90	21.00	23.96
HE20	MCS0	2	11	2462	15.70	15.90	18.81
HE40	MCS0	2	3	2422	16.10	16.20	19.16
HE40	MCS0	2	6	2437	16.30	16.50	19.41
HE40	MCS0	2	9	2452	15.50	16.10	18.82
EHT20	MCS0	2	1	2412	16.40	16.50	19.46
EHT20	MCS0	2	2	2417	16.90	17.10	20.01
EHT20	MCS0	2	3	2422	18.00	18.10	21.06



RF EXPOSURE EVALUATION REPORT

Report No. : FA492020

EHT20	MCS0	2	6	2437	21.00	21.10	24.06
EHT20	MCS0	2	10	2457	18.00	18.40	21.21
EHT20	MCS0	2	11	2462	15.80	16.00	18.91
EHT40	MCS0	2	3	2422	16.20	16.30	19.26
EHT40	MCS0	2	6	2437	16.40	16.60	19.51
EHT40	MCS0	2	9	2452	15.60	16.20	18.92

<5GHz WLAN>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		
					Ant 0	Ant 1	SUM
11a	6Mbps	1	36	5180	22.20		
11a	6Mbps	1	44	5220	24.30		
11a	6Mbps	1	48	5240	24.30		
HT20	MCS0	1	36	5180	22.30		
HT20	MCS0	1	44	5220	24.20		
HT20	MCS0	1	48	5240	24.20		
HT40	MCS0	1	38	5190	20.90		
HT40	MCS0	1	46	5230	22.90		
VHT20	MCS0	1	36	5180	22.40		
VHT20	MCS0	1	44	5220	24.30		
VHT20	MCS0	1	48	5240	24.30		
VHT40	MCS0	1	38	5190	21.00		
VHT40	MCS0	1	46	5230	23.00		
VHT80	MCS0	1	42	5210	20.80		
VHT160	MCS0	1	50	5250	19.70		
HE20	MCS0	1	36	5180	22.10		
HE20	MCS0	1	44	5220	23.80		
HE20	MCS0	1	48	5240	24.40		
HE40	MCS0	1	38	5190	19.90		
HE40	MCS0	1	46	5230	22.40		
HE80	MCS0	1	42	5210	20.60		
HE160	MCS0	1	50	5250	19.60		
EHT20	MCS0	1	36	5180	22.20		
EHT20	MCS0	1	44	5220	23.90		
EHT20	MCS0	1	48	5240	24.50		
EHT40	MCS0	1	38	5190	20.00		
EHT40	MCS0	1	46	5230	22.50		
EHT80	MCS0	1	42	5210	20.70		
EHT160	MCS0	1	50	5250	19.70		
11a	6Mbps	1	52	5260	22.80		
11a	6Mbps	1	60	5300	22.70		
11a	6Mbps	1	64	5320	22.60		
HT20	MCS0	1	52	5260	22.70		
HT20	MCS0	1	60	5300	23.00		
HT20	MCS0	1	64	5320	23.10		
HT40	MCS0	1	54	5270	23.40		
HT40	MCS0	1	62	5310	20.80		
VHT20	MCS0	1	52	5260	22.80		
VHT20	MCS0	1	60	5300	23.10		
VHT20	MCS0	1	64	5320	23.20		
VHT40	MCS0	1	54	5270	23.50		
VHT40	MCS0	1	62	5310	20.90		
VHT80	MCS0	1	58	5290	20.70		
VHT160	MCS0	1	50	5250	19.70		
HE20	MCS0	1	52	5260	23.30		
HE20	MCS0	1	60	5300	23.30		
HE20	MCS0	1	64	5320	22.10		
HE40	MCS0	1	54	5270	22.80		
HE40	MCS0	1	62	5310	20.80		
HE80	MCS0	1	58	5290	20.50		



RF EXPOSURE EVALUATION REPORT

Report No. : FA492020

HE160	MCS0	1	50	5250	19.60		
EHT20	MCS0	1	52	5260	23.40		
EHT20	MCS0	1	60	5300	23.40		
EHT20	MCS0	1	64	5320	22.20		
EHT40	MCS0	1	54	5270	22.90		
EHT40	MCS0	1	62	5310	20.90		
EHT80	MCS0	1	58	5290	20.60		
EHT160	MCS0	1	50	5250	19.70		
11a	6Mbps	1	100	5500	22.90		
11a	6Mbps	1	116	5580	22.80		
11a	6Mbps	1	140	5700	22.70		
HT20	MCS0	1	100	5500	23.40		
HT20	MCS0	1	116	5580	22.70		
HT20	MCS0	1	140	5700	23.00		
HT40	MCS0	1	102	5510	23.00		
HT40	MCS0	1	110	5550	23.40		
HT40	MCS0	1	134	5670	23.70		
VHT20	MCS0	1	100	5500	23.50		
VHT20	MCS0	1	116	5580	22.80		
VHT20	MCS0	1	140	5700	23.10		
VHT40	MCS0	1	102	5510	23.10		
VHT40	MCS0	1	110	5550	23.50		
VHT40	MCS0	1	134	5670	23.80		
VHT80	MCS0	1	106	5530	20.80		
VHT80	MCS0	1	122	5610	23.80		
VHT160	MCS0	1	114	5570	18.10		
HE20	MCS0	1	100	5500	23.50		
HE20	MCS0	1	116	5580	22.90		
HE20	MCS0	1	140	5700	22.20		
HE40	MCS0	1	102	5510	22.30		
HE40	MCS0	1	110	5550	23.40		
HE40	MCS0	1	134	5670	23.60		
HE80	MCS0	1	106	5530	19.50		
HE80	MCS0	1	122	5610	23.60		
HE160	MCS0	1	114	5570	18.10		
EHT20	MCS0	1	100	5500	23.60		
EHT20	MCS0	1	116	5580	23.00		
EHT20	MCS0	1	140	5700	22.30		
EHT40	MCS0	1	102	5510	22.40		
EHT40	MCS0	1	110	5550	23.50		
EHT40	MCS0	1	134	5670	23.70		
EHT80	MCS0	1	106	5530	19.60		
EHT80	MCS0	1	122	5610	23.70		
EHT160	MCS0	1	114	5570	18.20		
EHT240	MCS0	1	122	5610	16.00		
EHT20	MCS0	1	144	5720	23.40		
EHT40	MCS0	1	142	5710	23.50		
EHT80	MCS0	1	138	5690	23.70		
11a	6Mbps	1	149	5745	23.50		
11a	6Mbps	1	157	5785	23.20		
11a	6Mbps	1	165	5825	23.70		
HT20	MCS0	1	149	5745	23.40		
HT20	MCS0	1	157	5785	23.30		
HT20	MCS0	1	165	5825	23.70		
HT40	MCS0	1	151	5755	23.50		
HT40	MCS0	1	159	5795	23.70		
VHT20	MCS0	1	149	5745	23.50		
VHT20	MCS0	1	157	5785	23.40		
VHT20	MCS0	1	165	5825	23.80		
VHT40	MCS0	1	151	5755	23.60		
VHT40	MCS0	1	159	5795	23.80		
VHT80	MCS0	1	155	5775	23.60		
HE20	MCS0	1	149	5745	23.70		
HE20	MCS0	1	157	5785	23.40		



RF EXPOSURE EVALUATION REPORT

Report No. : FA492020

HE20	MCS0	1	165	5825	23.90		
HE40	MCS0	1	151	5755	23.50		
HE40	MCS0	1	159	5795	23.80		
HE80	MCS0	1	155	5775	23.50		
EHT20	MCS0	1	149	5745	23.80		
EHT20	MCS0	1	157	5785	23.50		
EHT20	MCS0	1	165	5825	24.00		
EHT40	MCS0	1	151	5755	23.60		
EHT40	MCS0	1	159	5795	23.90		
EHT80	MCS0	1	155	5775	23.60		
11a	6Mbps	1	169	5845	23.70		
11a	6Mbps	1	173	5865	23.50		
11a	6Mbps	1	177	5885	23.70		
HT20	MCS0	1	169	5845	23.60		
HT20	MCS0	1	173	5865	23.50		
HT20	MCS0	1	177	5885	23.60		
HT40	MCS0	1	167	5835	24.00		
HT40	MCS0	1	175	5875	23.80		
VHT20	MCS0	1	169	5845	23.70		
VHT20	MCS0	1	173	5865	23.60		
VHT20	MCS0	1	177	5885	23.70		
VHT40	MCS0	1	167	5835	24.10		
VHT40	MCS0	1	175	5875	23.90		
VHT80	MCS0	1	171	5855	23.90		
VHT160	MCS0	1	163	5815	21.60		
HE20	MCS0	1	169	5845	23.80		
HE20	MCS0	1	173	5865	23.70		
HE20	MCS0	1	177	5885	23.80		
HE40	MCS0	1	167	5835	24.00		
HE40	MCS0	1	175	5875	23.80		
HE80	MCS0	1	171	5855	23.70		
HE160	MCS0	1	163	5815	21.50		
EHT20	MCS0	1	169	5845	23.90		
EHT20	MCS0	1	173	5865	23.80		
EHT20	MCS0	1	177	5885	23.90		
EHT40	MCS0	1	167	5835	24.10		
EHT40	MCS0	1	175	5875	23.90		
EHT80	MCS0	1	171	5855	23.80		
EHT160	MCS0	1	163	5815	21.60		
11a	6Mbps	2	36	5180	21.30	21.10	24.21
11a	6Mbps	2	44	5220	24.10	24.20	27.16
11a	6Mbps	2	48	5240	24.10	24.10	27.11
HT20	MCS0	2	36	5180	20.80	20.60	23.71
HT20	MCS0	2	44	5220	23.60	23.60	26.61
HT20	MCS0	2	48	5240	23.60	23.50	26.56
HT40	MCS0	2	38	5190	20.30	20.40	23.36
HT40	MCS0	2	46	5230	22.30	22.40	25.36
VHT20	MCS0	2	36	5180	20.90	20.70	23.81
VHT20	MCS0	2	44	5220	23.70	23.70	26.71
VHT20	MCS0	2	48	5240	23.70	23.60	26.66
VHT40	MCS0	2	38	5190	20.40	20.50	23.46
VHT40	MCS0	2	46	5230	22.40	22.50	25.46
VHT80	MCS0	2	42	5210	20.20	20.10	23.16
VHT160	MCS0	2	50	5250	19.20	18.90	22.06
HE20	MCS0	2	36	5180	20.80	20.60	23.71
HE20	MCS0	2	44	5220	23.20	23.20	26.21
HE20	MCS0	2	48	5240	24.20	24.20	27.21
HE40	MCS0	2	38	5190	19.80	19.70	22.76
HE40	MCS0	2	46	5230	22.30	22.30	25.31
HE80	MCS0	2	42	5210	20.00	20.00	23.01
HE160	MCS0	2	50	5250	20.00	19.80	22.91
EHT20	MCS0	2	36	5180	20.90	20.70	23.81
EHT20	MCS0	2	44	5220	23.30	23.30	26.31
EHT20	MCS0	2	48	5240	24.30	24.30	27.31



RF EXPOSURE EVALUATION REPORT

Report No. : FA492020

EHT40	MCS0	2	38	5190	19.90	19.80	22.86
EHT40	MCS0	2	46	5230	22.40	22.40	25.41
EHT80	MCS0	2	42	5210	20.10	20.10	23.11
EHT160	MCS0	2	50	5250	20.10	19.90	23.01
11a	6Mbps	2	52	5260	19.50	19.30	22.41
11a	6Mbps	2	60	5300	19.60	19.30	22.46
11a	6Mbps	2	64	5320	19.50	19.20	22.36
HT20	MCS0	2	52	5260	19.60	19.50	22.56
HT20	MCS0	2	60	5300	19.50	19.60	22.56
HT20	MCS0	2	64	5320	19.50	19.40	22.46
HT40	MCS0	2	54	5270	20.40	20.50	23.46
HT40	MCS0	2	62	5310	20.50	20.50	23.51
VHT20	MCS0	2	52	5260	19.70	19.60	22.66
VHT20	MCS0	2	60	5300	19.60	19.70	22.66
VHT20	MCS0	2	64	5320	19.60	19.50	22.56
VHT40	MCS0	2	54	5270	20.50	20.60	23.56
VHT40	MCS0	2	62	5310	20.60	20.60	23.61
VHT80	MCS0	2	58	5290	20.60	20.50	23.56
VHT160	MCS0	2	50	5250	19.20	18.90	22.06
HE20	MCS0	2	52	5260	19.60	19.30	22.46
HE20	MCS0	2	60	5300	19.50	19.20	22.36
HE20	MCS0	2	64	5320	19.50	19.20	22.36
HE40	MCS0	2	54	5270	20.70	20.70	23.71
HE40	MCS0	2	62	5310	20.80	20.70	23.76
HE80	MCS0	2	58	5290	20.60	20.60	23.61
HE160	MCS0	2	50	5250	20.00	19.80	22.91
EHT20	MCS0	2	52	5260	19.70	19.40	22.56
EHT20	MCS0	2	60	5300	19.60	19.30	22.46
EHT20	MCS0	2	64	5320	19.60	19.30	22.46
EHT40	MCS0	2	54	5270	20.80	20.80	23.81
EHT40	MCS0	2	62	5310	20.90	20.80	23.86
EHT80	MCS0	2	58	5290	20.70	20.70	23.71
EHT160	MCS0	2	50	5250	20.10	19.90	23.01
11a	6Mbps	2	100	5500	19.80	19.10	22.47
11a	6Mbps	2	116	5580	19.80	19.10	22.47
11a	6Mbps	2	140	5700	19.70	19.60	22.66
HT20	MCS0	2	100	5500	20.20	19.70	22.97
HT20	MCS0	2	116	5580	19.60	19.20	22.41
HT20	MCS0	2	140	5700	19.80	19.80	22.81
HT40	MCS0	2	102	5510	21.00	20.60	23.81
HT40	MCS0	2	110	5550	20.90	20.50	23.71
HT40	MCS0	2	134	5670	20.70	20.50	23.61
VHT20	MCS0	2	100	5500	20.30	19.80	23.07
VHT20	MCS0	2	116	5580	19.70	19.30	22.51
VHT20	MCS0	2	140	5700	19.90	19.90	22.91
VHT40	MCS0	2	102	5510	21.10	20.70	23.91
VHT40	MCS0	2	110	5550	21.00	20.60	23.81
VHT40	MCS0	2	134	5670	20.80	20.60	23.71
VHT80	MCS0	2	106	5530	20.30	19.80	23.07
VHT80	MCS0	2	122	5610	20.90	20.30	23.62
VHT160	MCS0	2	114	5570	17.70	17.20	20.47
11a	6Mbps	2	144	5720	19.80	19.50	22.66
HT20	MCS0	2	144	5720	19.80	19.60	22.71
HT40	MCS0	2	142	5710	20.60	20.60	23.61
VHT20	MCS0	2	144	5720	19.90	19.70	22.81
VHT40	MCS0	2	142	5710	20.70	20.70	23.71
VHT80	MCS0	2	138	5690	20.90	20.70	23.81
HE20	MCS0	2	100	5500	20.30	19.70	23.02
HE20	MCS0	2	116	5580	20.30	19.70	23.02
HE20	MCS0	2	140	5700	19.60	19.50	22.56
HE40	MCS0	2	102	5510	20.90	20.40	23.67
HE40	MCS0	2	110	5550	20.90	20.40	23.67
HE40	MCS0	2	134	5670	20.60	20.30	23.46
HE80	MCS0	2	106	5530	18.70	18.20	21.47



RF EXPOSURE EVALUATION REPORT

Report No. : FA492020

HE80	MCS0	2	122	5610	20.80	20.50	23.66
HE160	MCS0	2	114	5570	17.70	17.20	20.47
HE20	MCS0	2	144	5720	19.70	19.50	22.61
HE40	MCS0	2	142	5710	20.40	20.40	23.41
HE80	MCS0	2	138	5690	20.90	20.80	23.86
HE20	MCS0	2	144	5720	19.70	19.50	22.61
HE40	MCS0	2	142	5710	20.40	20.40	23.41
HE80	MCS0	2	138	5690	20.90	20.80	23.86
EHT20	MCS0	2	100	5500	20.40	19.80	23.12
EHT20	MCS0	2	116	5580	20.40	19.80	23.12
EHT20	MCS0	2	140	5700	19.70	19.60	22.66
EHT40	MCS0	2	102	5510	21.00	20.50	23.77
EHT40	MCS0	2	110	5550	21.00	20.50	23.77
EHT40	MCS0	2	134	5670	20.70	20.40	23.56
EHT80	MCS0	2	106	5530	18.80	18.30	21.57
EHT80	MCS0	2	122	5610	20.90	20.60	23.76
EHT160	MCS0	2	114	5570	17.80	17.30	20.57
EHT240	MCS0	2	122	5610	14.60	14.30	17.46
EHT20	MCS0	2	144	5720	19.80	19.60	22.71
EHT40	MCS0	2	142	5710	20.50	20.50	23.51
EHT80	MCS0	2	138	5690	21.00	20.90	23.96
11a	6Mbps	2	149	5745	23.80	23.50	26.66
11a	6Mbps	2	157	5785	23.50	23.30	26.41
11a	6Mbps	2	165	5825	24.00	23.50	26.77
HT20	MCS0	2	149	5745	23.80	23.70	26.76
HT20	MCS0	2	157	5785	23.50	23.40	26.46
HT20	MCS0	2	165	5825	24.10	23.60	26.87
HT40	MCS0	2	151	5755	23.70	23.60	26.66
HT40	MCS0	2	159	5795	23.90	23.70	26.81
VHT20	MCS0	2	149	5745	23.90	23.80	26.86
VHT20	MCS0	2	157	5785	23.60	23.50	26.56
VHT20	MCS0	2	165	5825	24.20	23.70	26.97
VHT40	MCS0	2	151	5755	23.80	23.70	26.76
VHT40	MCS0	2	159	5795	24.00	23.80	26.91
VHT80	MCS0	2	155	5775	23.00	22.90	25.96
HE20	MCS0	2	149	5745	24.10	23.70	26.91
HE20	MCS0	2	157	5785	23.70	23.60	26.66
HE20	MCS0	2	165	5825	24.20	23.70	26.97
HE40	MCS0	2	151	5755	23.30	23.10	26.21
HE40	MCS0	2	159	5795	24.00	23.70	26.86
HE80	MCS0	2	155	5775	23.20	23.00	26.11
EHT20	MCS0	2	149	5745	24.20	23.80	27.01
EHT20	MCS0	2	157	5785	23.80	23.70	26.76
EHT20	MCS0	2	165	5825	24.30	23.80	27.07
EHT40	MCS0	2	151	5755	23.40	23.20	26.31
EHT40	MCS0	2	159	5795	24.10	23.80	26.96
EHT80	MCS0	2	155	5775	23.30	23.10	26.21
11a	6Mbps	2	169	5845	23.80	23.40	26.61
11a	6Mbps	2	173	5865	23.70	23.50	26.61
11a	6Mbps	2	177	5885	23.90	23.90	26.91
HT20	MCS0	2	169	5845	23.80	23.60	26.71
HT20	MCS0	2	173	5865	23.60	23.50	26.56
HT20	MCS0	2	177	5885	23.60	23.80	26.71
HT40	MCS0	2	167	5835	24.10	23.80	26.96
HT40	MCS0	2	175	5875	23.90	23.70	26.81
VHT20	MCS0	2	169	5845	23.90	23.70	26.81
VHT20	MCS0	2	173	5865	23.70	23.60	26.66
VHT20	MCS0	2	177	5885	23.70	23.90	26.81
VHT40	MCS0	2	167	5835	24.20	23.90	27.06
VHT40	MCS0	2	175	5875	24.00	23.80	26.91
VHT80	MCS0	2	171	5855	24.00	23.80	26.91
VHT160	MCS0	2	163	5815	20.20	19.80	23.01
HE20	MCS0	2	169	5845	24.00	23.70	26.86
HE20	MCS0	2	173	5865	23.80	23.70	26.76

HE20	MCS0	2	177	5885	24.00	24.00	27.01
HE40	MCS0	2	167	5835	24.10	23.90	27.01
HE40	MCS0	2	175	5875	24.00	23.80	26.91
HE80	MCS0	2	171	5855	23.80	23.70	26.76
HE160	MCS0	2	163	5815	21.10	20.80	23.96
EHT20	MCS0	2	169	5845	24.10	23.80	26.96
EHT20	MCS0	2	173	5865	23.90	23.80	26.86
EHT20	MCS0	2	177	5885	24.10	24.10	27.11
EHT40	MCS0	2	167	5835	24.20	24.00	27.11
EHT40	MCS0	2	175	5875	24.10	23.90	27.01
EHT80	MCS0	2	171	5855	23.90	23.80	26.86
EHT160	MCS0	2	163	5815	21.20	20.90	24.06

<BLE>

Mode	Average power (dBm)	
	LE	
	1Mbps	2Mbps
CH 0	19.2	19.1
CH 19	19.0	19.0
CH 39	18.3	15.3

<IEEE 802.15.4>

Mode	Average power (dBm)	
	Zigbee	
	250KHz	
CH 11	19.4	
CH 17	19.2	
CH 25	19.1	
CH 26	2.9	

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

Band		Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
SISO	WLAN2.4GHz Band	5.41	24.20	29.61	914.11	0.182	1.000	0.182
	WLAN5.2GHz Band	4.09	24.50	28.59	722.77	0.144	1.000	0.144
	WLAN5.3GHz Band	4.56	23.50	28.06	639.73	0.127	1.000	0.127
	WLAN5.5GHz Band	5.70	23.80	29.50	891.25	0.177	1.000	0.177
	WLAN5.8GHz Band	5.42	24.30	29.72	937.56	0.187	1.000	0.187
	WLAN5.9GHz Band	5.39	24.20	29.59	909.91	0.181	1.000	0.181
MIMO	WLAN2.4GHz Band	3.71	26.77	30.48	1116.86	0.222	1.000	0.222
	WLAN5.2GHz Band	1.92	27.31	29.23	837.53	0.167	1.000	0.167
	WLAN5.3GHz Band	2.12	23.86	25.98	396.28	0.079	1.000	0.079
	WLAN5.5GHz Band	2.70	23.96	26.66	463.45	0.092	1.000	0.092
	WLAN5.8GHz Band	2.70	27.07	29.77	948.42	0.189	1.000	0.189
	WLAN5.9GHz Band	2.66	27.11	29.77	948.42	0.189	1.000	0.189
Bluetooth LE		3.02	19.20	22.22	166.72	0.033	1.000	0.033
IEEE 802.15.4		3.02	19.40	22.42	174.58	0.035	1.000	0.035

4.2. Collocated Power Density Calculation

Bluetooth Power Density / Limit	WLAN 5GHz Power Density / Limit	Σ (Power Density / Limit) of Bluetooth + WLAN 5GHz
0.033	0.189	0.222

WLAN 2.4GHz Power Density / Limit	WLAN 5GHz Power Density / Limit	Σ (Power Density / Limit) of WLAN 2.4GHz + WLAN 5GHz
0.222	0.189	0.411

IEEE 802.15.4 Power Density / Limit	WLAN 5GHz Power Density / Limit	Σ (Power Density / Limit) of IEEE 802.15.4 + WLAN 5GHz
0.035	0.189	0.224

Note:

1. Σ(Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)], for Bluetooth + WLAN 5GHz, WLAN 2.4GHz + WLAN 5GHz, IEEE 802.15.4 + WLAN 5GHz.
2. Considering the WLAN 5GHz collocation with the WLAN 2.4GHz, IEEE 802.15.4 and Bluetooth transmitters, based on the EIRP performance listed in the table above, the aggregated (power density/limit) is smaller than 1, and MPE of the 2 collocated transmitters is compliant.

Conclusion:

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