



SPOT CHECK EVALUATION

FCC ID : 2AEM4-FE02
Equipment : Wireless Router
Model Name : FE02
Applicant : eero LLC
660 3rd St Fl 4, San Francisco,
California, 94107, United States
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Feb. 11, 2026 and testing was performed from Feb. 13, 2026 to Apr. 02, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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TABLE OF CONTENTS

History of this test report.....	3
1. Introduction	4
2. Model Difference Information	5
3. Spot Check Verification Results	6
4. Reference Details	8
5. List of Measuring Equipment.....	9



History of this test report

Version	Description	Issued Date
01	Initial issue of report	Jun. 01, 2026



1. Introduction

The primary purpose of this report is to provide an applicability assessment and test verification procedure description under FCC KDB 484596 Referencing Test Data v03 for two independent products that are variants of each other. Detailed product information and the differences between the two are described in Section 2.



2. Model Difference Information

FCC ID	Model Number	Note
2AEM4-FF02	FF02	Parent Model
2AEM4-FE02	FE02	Variant Model

2AEM4-FF02 and 2AEM4-FE02 are fundamentally the same device design. 2AEM4-FF02 serves as the Gateway, equipped with Ethernet ports, while 2AEM4-FE02 functions as the Extender, designed to extend wireless signal coverage. On the Extender model, the Ethernet ports have been removed, retaining only the power connector. Apart from this distinction, the two models share an identical design foundation, including the same PCB layout; the difference lies solely in certain components being depopulated on 2AEM4-FE02. Both models share the same RF schematics, memory storage, System on Chip (SoC), and PC board layout. The specific differences between the two models are as follows:

1. BZT Chip (Qorvo): Present on 2AEM4-FF02 but depopulated on 2AEM4-FE02.
2. BZT Antenna: Present on 2AEM4-FF02 but depopulated on 2AEM4-FE02.
3. Ethernet PHY/Ports: Present on 2AEM4-FF02 but removed on 2AEM4-FE02.
4. BLE Function: On 2AEM4-FE02, the BLE function utilizes the built-in BLE radio within the Wi-Fi SoC (IPQ5018) and shares the same antenna with the 2.4 GHz Wi-Fi. This shared configuration does not affect Wi-Fi performance.

The applicant, eero LLC, hereby declares that 2AEM4-FF02 (designated as the parent model) and 2AEM4-FE02 (designated as the variant model) are hardware-identical with respect to WLAN functionality. The applicability of test data referencing between the two models has been confirmed through an inquiry submitted to an FCC-authorized Telecommunication Certification Body (TCB).

3. Spot Check Verification Results

Conducted power measurements and radiated spurious emission (RSE) tests were performed on the variant model (2AEM4-FE02) as spot checks. The test cases were selected based on the worst-case results obtained from the parent model (2AEM4-FF02), in order to demonstrate that the test data from the parent model remains representative and applicable to the variant model.

The summary of conducted power and RSE spot check results for each rule entry and technology is presented below:

Test Item	Mode	2AEM4-FF02 (lead) Worst Result	2AEM4-FE02 Worst Result	Difference (dB)
Average Conducted Power (dBm)	WLAN 2.4G	21.47	21.46	0.01
	WLAN 5G	26.21	26.31	-0.1
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	WLAN 2.4G	53.52	53.64	-0.21
	WLAN 5G	53.37	50.73	2.64
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	WLAN 2.4G	52.43	48.71	3.72
	WLAN 5G	55.86	55.33	0.53



Conclusion:

Based on the spot check test results, the test data from the parent model is confirmed to be representative for the variant model. Both the conducted power levels and radiated spurious emission (RSE) spot check results fall within expected levels and are compliant with the applicable limit lines.

The power values recorded in the original grant issued to the parent model (2AEM4-FF02) are used as the baseline for conducted power measurements on the variant model.

The UNII DFS detection mechanism and software implementation of the variant model (2AEM4-FE02) are identical to those of the parent model (2AEM4-FF02). Therefore, the original DFS test report is reused, and no DFS spot check testing was performed on the variant model.

We hereby confirm that the test data reuse policy set forth in FCC KDB 484596 D01 Referencing Test Data v03 has been followed throughout this evaluation. We take full responsibility that the test data referenced from the parent model report demonstrates compliance for the new FCC ID applied for the variant model.



4. Reference Details

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)
15C	DTS	Wi-Fi	2400~2483.5	2AEM4-FF02	Original Grant	FR621004C	2AEM4-FE02
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850 5850~5895	2AEM4-FF02	Original Grant	FR621004D FR621004E FR621004F	2AEM4-FE02
		DFS	5250~5350 5470~5725	2AEM4-FF02	Original Grant	FZ621004	2AEM4-FE02



5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Feb. 13, 2026~ Mar. 27, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Feb. 13, 2026~ Mar. 27, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Dec. 16, 2025	Feb. 13, 2026~ Mar. 27, 2026	Dec. 15, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Feb. 13, 2026~ Mar. 27, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24082 3	N/A	Conducted Other Test Item	N/A	Feb. 13, 2026~ Mar. 27, 2026	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 11, 2025	Mar. 23, 2026~ Apr. 02, 2026	Dec. 10, 2026	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz~40GHz	Jul. 02, 2025	Mar. 23, 2026~ Apr. 02, 2026	Jul. 01, 2026	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Nov. 18, 2025	Mar. 23, 2026~ Apr. 02, 2026	Nov. 17, 2026	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 26, 2025	Mar. 23, 2026~ Apr. 02, 2026	Nov. 25, 2026	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 04, 2025	Mar. 23, 2026~ Apr. 02, 2026	Oct. 03, 2026	Radiation (03CH16-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 07, 2025	Mar. 23, 2026~ Apr. 02, 2026	Aug. 07, 2026	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jun. 30, 2025	Mar. 23, 2026~ Apr. 02, 2026	Jun. 29, 2026	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GH	Sep. 12, 2025	Mar. 23, 2026~ Apr. 02, 2026	Sep. 11, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 22, 2025	Mar. 23, 2026~ Apr. 02, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Mar. 23, 2026~ Apr. 02, 2026	May 25, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 13, 2026	Mar. 23, 2026~ Apr. 02, 2026	Jan. 12, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN3	3GHz High Pass Filter	Jun. 26, 2025	Mar. 23, 2026~ Apr. 02, 2026	Jun. 25, 2026	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WHKX8-5872. 5-6750-18000-40ST	SN27	6.75GHz High Pass Filter	Dec. 22, 2025	Mar. 23, 2026~ Apr. 02, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Mar. 23, 2026~ Apr. 02, 2026	Apr. 22, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-57 57,805935/4,8 02434/4	30MHz~18GHz	Aug. 06, 2025	Mar. 23, 2026~ Apr. 02, 2026	Aug. 05, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Dec. 18, 2025	Mar. 23, 2026~ Apr. 02, 2026	Dec. 17, 2026	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Mar. 23, 2026~ Apr. 02, 2026	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 23, 2026~ Apr. 02, 2026	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 23, 2026~ Apr. 02, 2026	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 23, 2026~ Apr. 02, 2026	N/A	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Mar. 16, 2026~ Mar. 26, 2026	Nov. 25, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 16, 2026~ Mar. 26, 2026	Dec. 10, 2026	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Mar. 16, 2026~ Mar. 26, 2026	Sep. 14, 2026	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jul. 02, 2025	Mar. 16, 2026~ Mar. 26, 2026	Jul. 01, 2026	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 06, 2025	Mar. 16, 2026~ Mar. 26, 2026	Dec. 05, 2026	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Mar. 16, 2026~ Mar. 22, 2026	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 23, 2026	Mar. 23, 2026~ Mar. 26, 2026	Mar. 22, 2027	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 20, 2026	Mar. 16, 2026~ Mar. 26, 2026	Jan. 19, 2027	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Mar. 16, 2026~ Mar. 26, 2026	May 25, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2025	Mar. 16, 2026~ Mar. 26, 2026	Oct. 22, 2026	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 21, 2025	Mar. 16, 2026~ Mar. 26, 2026	Apr. 20, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 16, 2026~ Mar. 26, 2026	N/A	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 16, 2026~ Mar. 26, 2026	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 16, 2026~ Mar. 26, 2026	N/A	Radiation (03CH11-HY)
Software	Audix	E3	RK-002391	N/A	N/A	Mar. 16, 2026~ Mar. 26, 2026	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 02, 2025	Mar. 16, 2026~ Mar. 26, 2026	Oct. 01, 2026	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 26, 2025	Mar. 16, 2026~ Mar. 26, 2026	Aug. 25, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 04, 2026	Mar. 16, 2026~ Mar. 26, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 04, 2026	Mar. 16, 2026~ Mar. 26, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 04, 2026	Mar. 16, 2026~ Mar. 26, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	9K~30M	Mar. 04, 2026	Mar. 16, 2026~ Mar. 26, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	Mar. 04, 2026	Mar. 16, 2026~ Mar. 26, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40SS	SN3	6.75GHz High Pass Filter	Sep. 09, 2025	Mar. 16, 2026~ Mar. 26, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 21, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Dec. 20, 2026	Radiation (03CH22-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Nov. 26, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Nov. 25, 2026	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 13, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Jul. 12, 2026	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18E N	1GHz~18GHz	May 20, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	May 19, 2026	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz~40GHz	Jul. 02, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Jul. 01, 2026	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 26, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Sep. 25, 2026	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Dec. 02, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Dec. 01, 2026	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 22, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Sep. 21, 2026	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 15, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	Dec. 14, 2026	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 24, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH22-HY)

**FCC TEST REPORT****Report No.: FR621004-01B**

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 24, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 24, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	Mar. 24, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Mar. 24, 2026 ~ Mar. 25, 2026	Mar. 05, 2027	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMC I	SUCOFLEX 102/EMCI01Y- KM-KM-500/E MCI01Y-KM-K M-9000	804611/2,240 914, 25043351,250 43350	30MHz~40GHz	May 19, 2025	Mar. 24, 2026 ~ Mar. 25, 2026	May 18, 2026	Radiation (03CH22-HY)

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