

7.8. AC Conducted Emissions Measurement

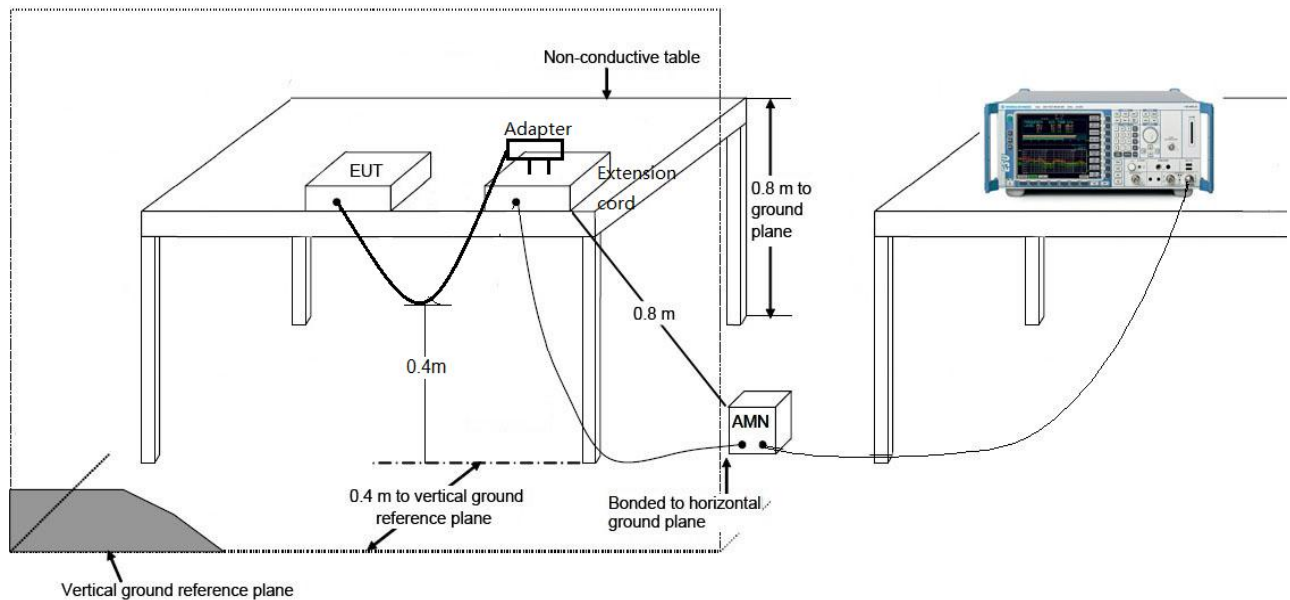
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

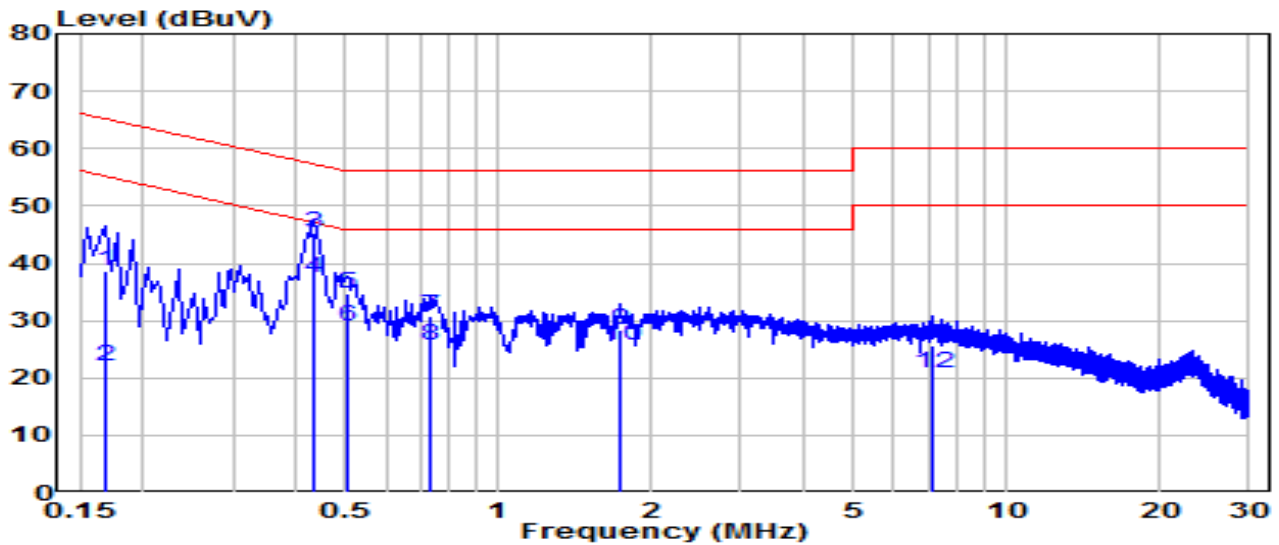
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

EUT	BE17000 Whole Home Mesh Wi-Fi 7 System	Date of Test	2025-05-12
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.8°C /61%
Polarity	Line1	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11n-20MHz_TX_CH6_Ant 0+1	Test Voltage	AC 120V/60Hz

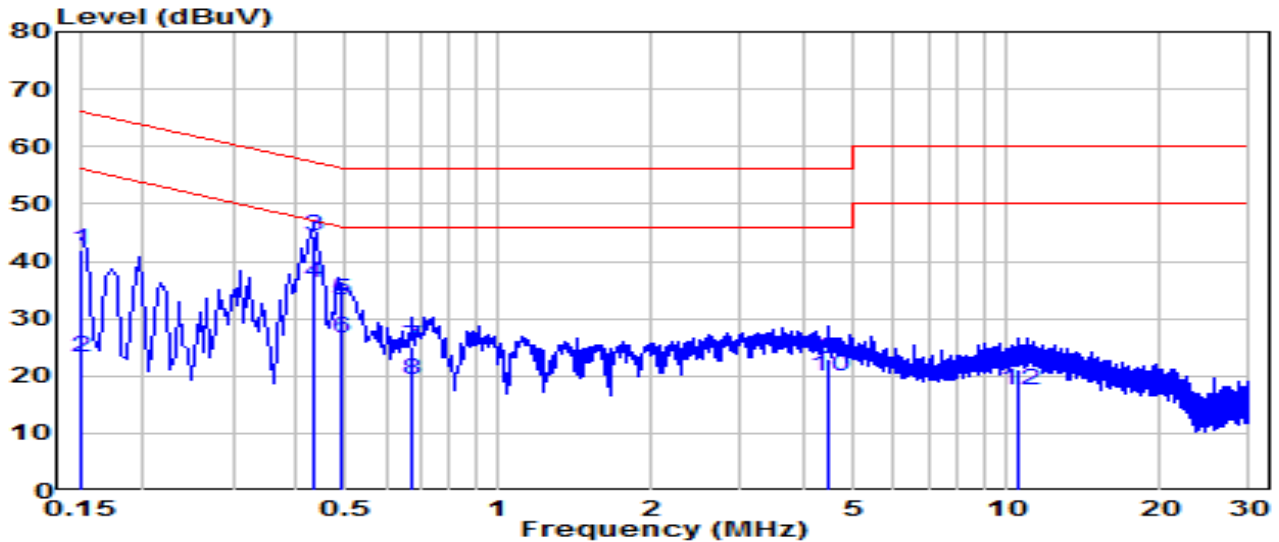


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.168	29.07	9.63	38.70	-26.36	65.06	QP
2	0.168	12.33	9.63	21.96	-33.10	55.06	Average
3	* 0.433	35.71	9.64	45.34	-11.84	57.19	QP
4	* 0.433	27.89	9.64	37.52	-9.66	47.19	Average
5	0.505	25.21	9.64	34.85	-21.15	56.00	QP
6	0.505	19.32	9.64	28.96	-17.04	46.00	Average
7	0.730	21.10	9.65	30.75	-25.25	56.00	QP
8	0.730	16.14	9.65	25.79	-20.21	46.00	Average
9	1.738	18.78	9.69	28.47	-27.53	56.00	QP
10	1.738	15.91	9.69	25.60	-20.40	46.00	Average
11	7.187	15.78	9.80	25.58	-34.42	60.00	QP
12	7.187	10.96	9.80	20.76	-29.24	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	BE17000 Whole Home Mesh Wi-Fi 7 System	Date of Test	2025-05-12
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.8°C /61%
Polarity	Neutral	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11n-20MHz_TX_CH6_Ant 0+1	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.150	32.40	9.63	42.03	-23.97	66.00	QP
2	0.150	13.71	9.63	23.34	-32.66	56.00	Average
3	* 0.433	34.80	9.64	44.43	-12.75	57.19	QP
4	* 0.433	26.67	9.64	36.31	-10.87	47.19	Average
5	0.492	23.45	9.64	33.09	-23.05	56.13	QP
6	0.492	16.90	9.64	26.54	-19.60	46.13	Average
7	0.676	15.27	9.65	24.92	-31.08	56.00	QP
8	0.676	9.57	9.65	19.23	-26.77	46.00	Average
9	4.438	13.34	9.74	23.08	-32.92	56.00	QP
10	4.438	10.08	9.74	19.82	-26.18	46.00	Average
11	10.494	11.36	9.87	21.24	-38.76	60.00	QP
12	10.494	7.58	9.87	17.46	-32.54	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15C of the FCC Rules.

Appendix A : Test Setup Photograph

Refer to “2503TW0111-UT” file.

Appendix B : External Photograph

Refer to “2503TW0111-UE” file.

Appendix C : Internal Photograph

Refer to “2503TW0111-UI” file.

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