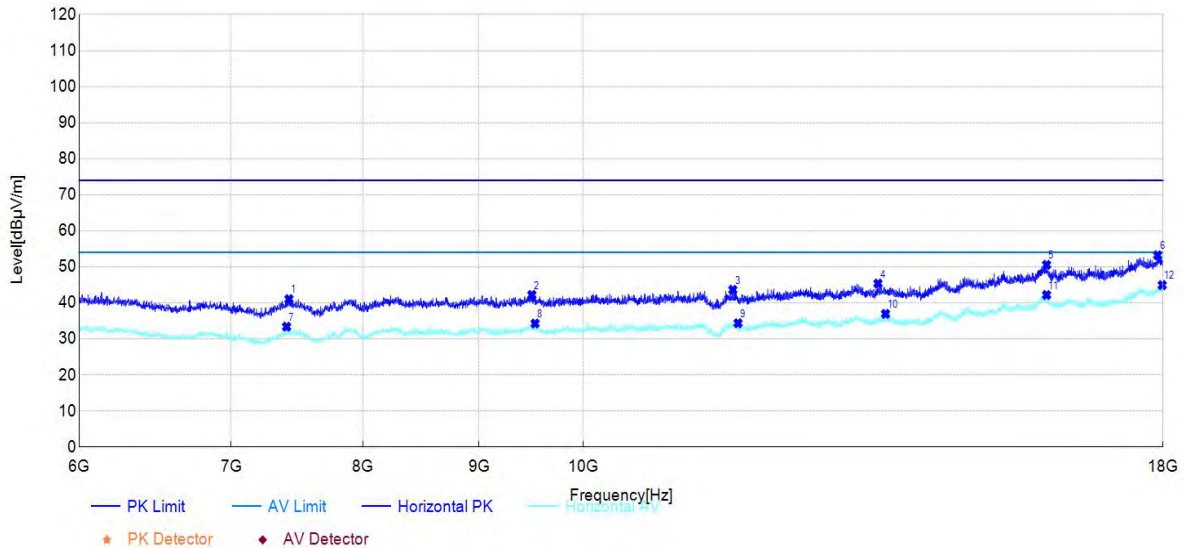


6GHz-18GHz

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

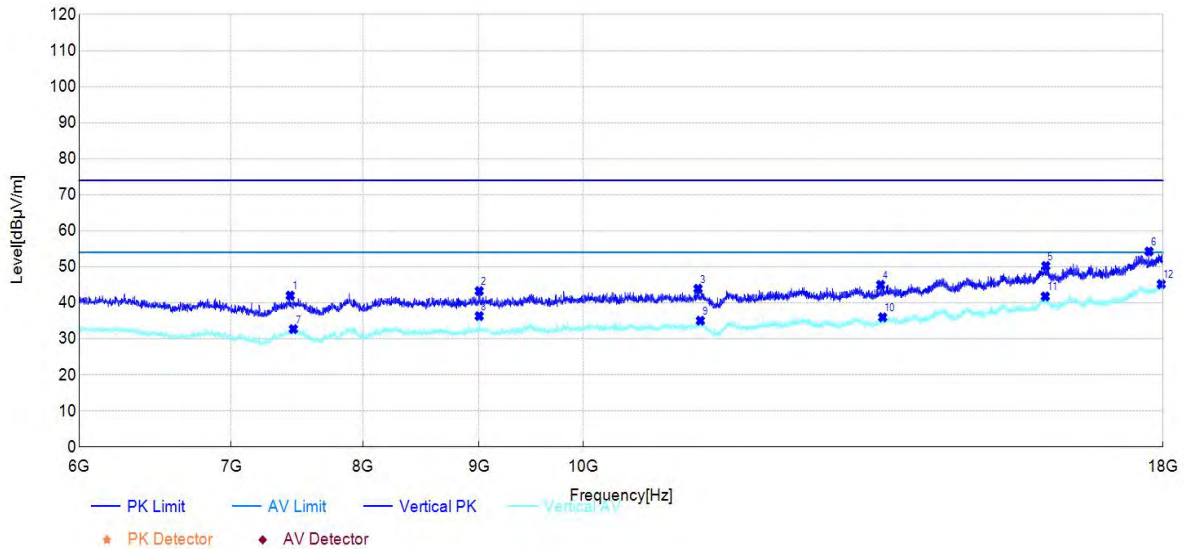
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7422.00	43.85	41.05	-2.80	74.00	32.95	150	325	PK	Horizontal	PASS
2	9493.50	42.22	42.22	0.00	74.00	31.78	150	73	PK	Horizontal	PASS
3	11638.50	42.51	43.63	1.12	74.00	30.37	150	189	PK	Horizontal	PASS
4	13483.50	42.11	45.38	3.27	74.00	28.62	150	76	PK	Horizontal	PASS
5	15996.00	40.78	50.56	9.78	74.00	23.44	150	271	PK	Horizontal	PASS
6	17901.00	38.80	53.21	14.41	74.00	20.79	150	4	PK	Horizontal	PASS
7	7404.00	36.13	33.39	-2.74	54.00	20.61	150	66	AV	Horizontal	PASS
8	9525.00	34.28	34.27	-0.01	54.00	19.73	150	297	AV	Horizontal	PASS
9	11700.00	33.83	34.36	0.53	54.00	19.64	150	42	AV	Horizontal	PASS
10	13587.00	33.84	36.95	3.11	54.00	17.05	150	42	AV	Horizontal	PASS
11	15996.00	32.42	42.20	9.78	54.00	11.80	150	61	AV	Horizontal	PASS
12	17985.00	31.04	44.92	13.88	54.00	9.08	150	128	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	00	Test Engineer:	Stone Zhang



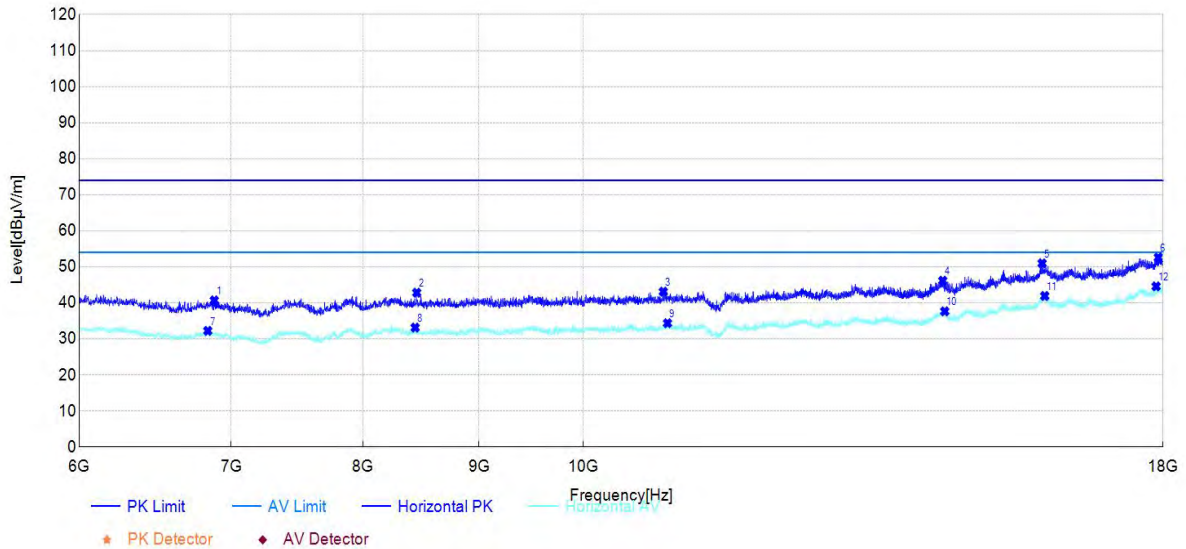
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7431.00	44.84	42.02	-2.82	74.00	31.98	150	168	PK	Vertical	PASS
2	9000.00	44.07	43.29	-0.78	74.00	30.71	150	108	PK	Vertical	PASS
3	11235.00	42.89	43.93	1.04	74.00	30.07	150	19	PK	Vertical	PASS
4	13519.50	42.27	45.02	2.75	74.00	28.98	150	183	PK	Vertical	PASS
5	15984.00	40.96	50.24	9.28	74.00	23.76	150	330	PK	Vertical	PASS
6	17746.50	40.11	54.27	14.16	74.00	19.73	150	299	PK	Vertical	PASS
7	7455.00	35.62	32.73	-2.89	54.00	21.27	150	211	AV	Vertical	PASS
8	9000.00	37.12	36.34	-0.78	54.00	17.66	150	108	AV	Vertical	PASS
9	11262.00	33.98	35.07	1.09	54.00	18.93	150	161	AV	Vertical	PASS
10	13548.00	33.23	36.00	2.77	54.00	18.00	150	318	AV	Vertical	PASS
11	15975.00	32.51	41.79	9.28	54.00	12.21	150	146	AV	Vertical	PASS
12	17967.00	30.63	45.21	14.58	54.00	8.79	150	180	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	19	Test Engineer:	Stone Zhang



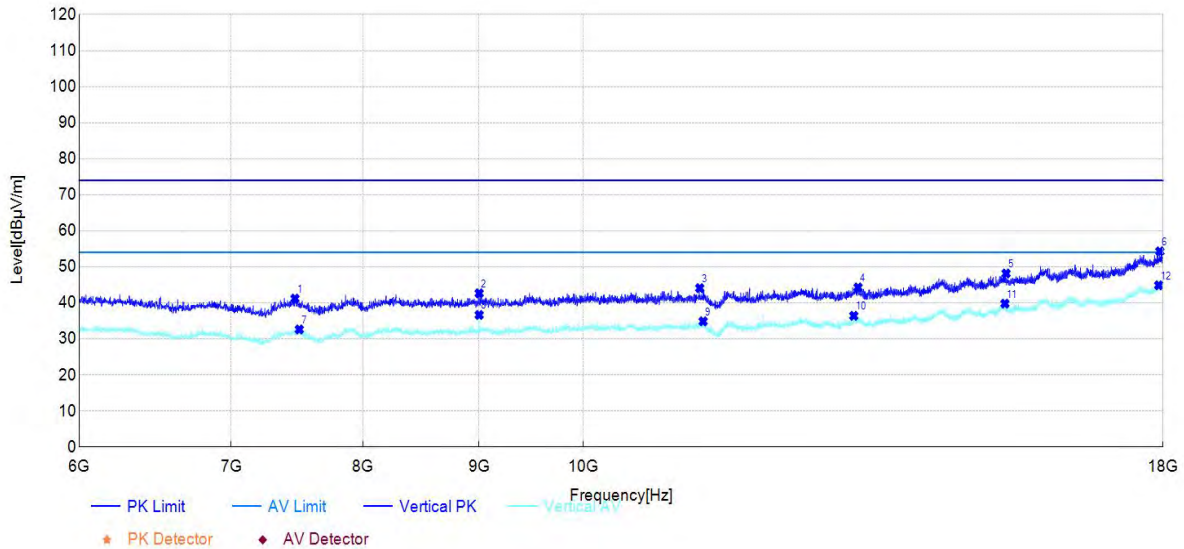
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6880.50	45.17	40.68	-4.49	74.00	33.32	150	201	PK	Horizontal	PASS
2	8448.00	44.12	42.83	-1.29	74.00	31.17	150	325	PK	Horizontal	PASS
3	10846.50	42.37	43.12	0.75	74.00	30.88	150	243	PK	Horizontal	PASS
4	14398.50	40.99	46.16	5.17	74.00	27.84	150	4	PK	Horizontal	PASS
5	15924.00	41.19	50.97	9.78	74.00	23.03	150	139	PK	Horizontal	PASS
6	17914.50	38.27	52.60	14.33	74.00	21.40	150	0	PK	Horizontal	PASS
7	6835.50	36.97	32.24	-4.73	54.00	21.76	150	193	AV	Horizontal	PASS
8	8434.50	34.34	33.13	-1.21	54.00	20.87	150	186	AV	Horizontal	PASS
9	10893.00	33.44	34.37	0.93	54.00	19.63	150	182	AV	Horizontal	PASS
10	14427.00	32.70	37.65	4.95	54.00	16.35	150	62	AV	Horizontal	PASS
11	15966.00	32.14	41.92	9.78	54.00	12.08	150	208	AV	Horizontal	PASS
12	17874.00	30.30	44.58	14.28	54.00	9.42	150	35	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	19	Test Engineer:	Stone Zhang



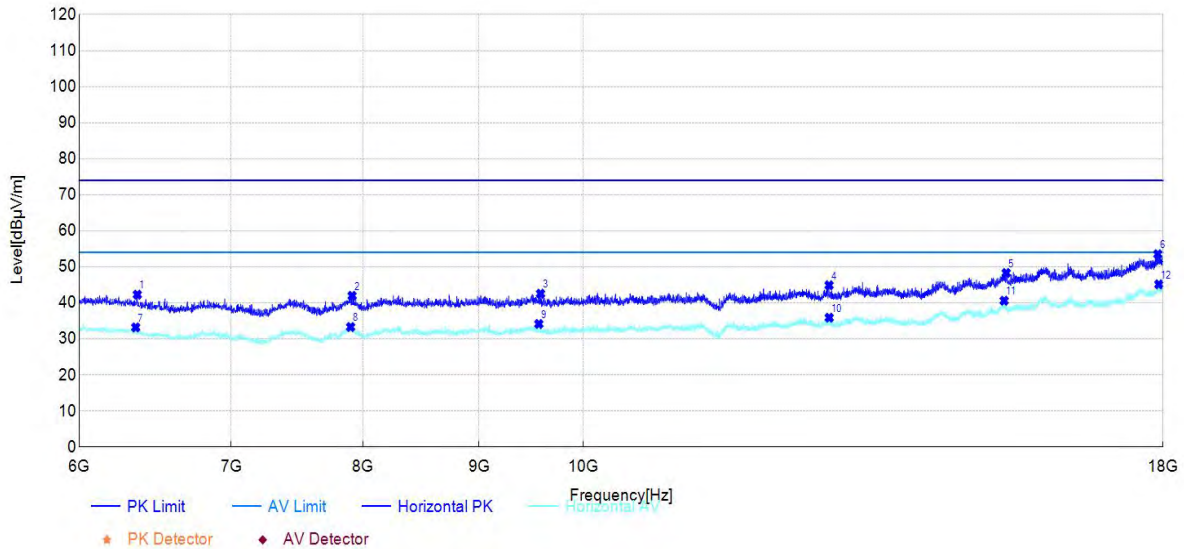
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7467.00	44.13	41.20	-2.93	74.00	32.80	150	342	PK	Vertical	PASS
2	9000.00	43.44	42.66	-0.78	74.00	31.34	150	77	PK	Vertical	PASS
3	11254.50	43.03	44.10	1.07	74.00	29.90	150	173	PK	Vertical	PASS
4	13213.50	41.44	44.30	2.86	74.00	29.70	150	66	PK	Vertical	PASS
5	15352.50	41.34	48.16	6.82	74.00	25.84	150	326	PK	Vertical	PASS
6	17943.00	39.56	54.29	14.73	74.00	19.71	150	50	PK	Vertical	PASS
7	7500.00	35.65	32.63	-3.02	54.00	21.37	150	77	AV	Vertical	PASS
8	9000.00	37.43	36.65	-0.78	54.00	17.35	150	77	AV	Vertical	PASS
9	11293.50	33.74	34.88	1.14	54.00	19.12	150	116	AV	Vertical	PASS
10	13156.50	33.67	36.41	2.74	54.00	17.59	150	16	AV	Vertical	PASS
11	15334.50	32.88	39.80	6.92	54.00	14.20	150	97	AV	Vertical	PASS
12	17920.50	30.00	44.87	14.87	54.00	9.13	150	188	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	39	Test Engineer:	Stone Zhang



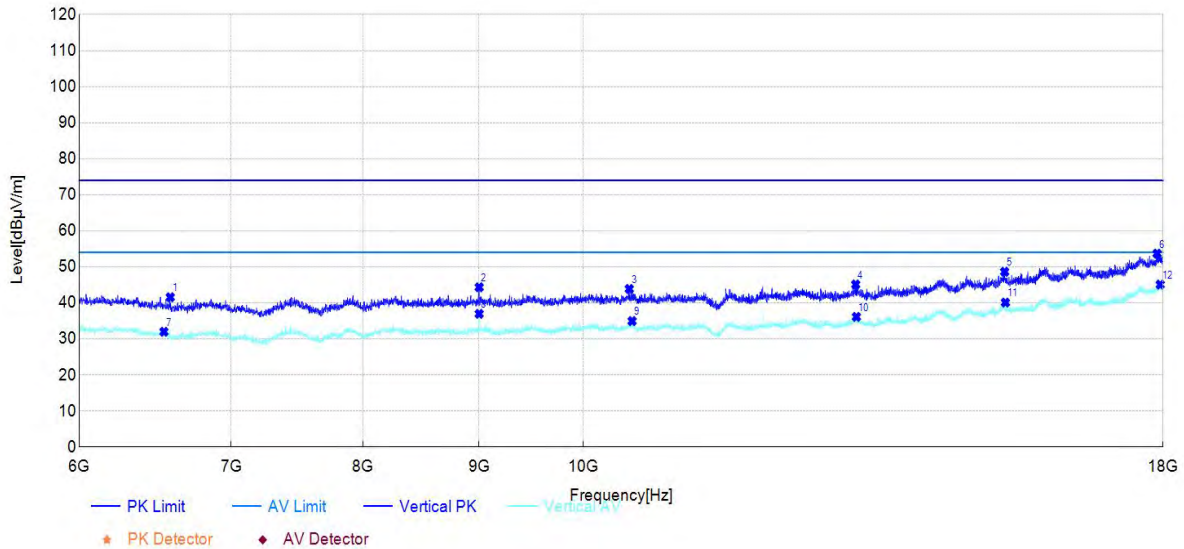
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6364.50	47.05	42.29	-4.76	74.00	31.71	150	231	PK	Horizontal	PASS
2	7912.50	42.99	41.97	-1.02	74.00	32.03	150	310	PK	Horizontal	PASS
3	9577.50	42.71	42.55	-0.16	74.00	31.45	150	104	PK	Horizontal	PASS
4	12831.00	42.93	44.89	1.96	74.00	29.11	150	219	PK	Horizontal	PASS
5	15354.00	41.23	48.30	7.07	74.00	25.70	150	49	PK	Horizontal	PASS
6	17905.50	39.14	53.52	14.38	74.00	20.48	150	57	PK	Horizontal	PASS
7	6354.00	37.87	33.21	-4.66	54.00	20.79	150	267	AV	Horizontal	PASS
8	7900.50	34.27	33.31	-0.96	54.00	20.69	150	81	AV	Horizontal	PASS
9	9561.00	34.26	34.15	-0.11	54.00	19.85	150	104	AV	Horizontal	PASS
10	12832.50	33.94	35.89	1.95	54.00	18.11	150	38	AV	Horizontal	PASS
11	15322.50	33.41	40.61	7.20	54.00	13.39	150	57	AV	Horizontal	PASS
12	17923.50	30.88	45.15	14.27	54.00	8.85	150	295	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-05-13
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6580.50	46.97	41.57	-5.40	74.00	32.43	150	360	PK	Vertical	PASS
2	9000.00	45.12	44.34	-0.78	74.00	29.66	150	108	PK	Vertical	PASS
3	10479.00	42.84	43.88	1.04	74.00	30.12	150	281	PK	Vertical	PASS
4	13182.00	42.24	45.11	2.87	74.00	28.89	150	345	PK	Vertical	PASS
5	15330.00	41.70	48.63	6.93	74.00	25.37	150	162	PK	Vertical	PASS
6	17892.00	38.72	53.68	14.96	74.00	20.32	150	132	PK	Vertical	PASS
7	6538.50	37.18	32.00	-5.18	54.00	22.00	150	139	AV	Vertical	PASS
8	9000.00	37.74	36.96	-0.78	54.00	17.04	150	75	AV	Vertical	PASS
9	10509.00	33.81	34.96	1.15	54.00	19.04	150	99	AV	Vertical	PASS
10	13191.00	33.19	36.12	2.93	54.00	17.88	150	1	AV	Vertical	PASS
11	15342.00	33.22	40.09	6.87	54.00	13.91	150	194	AV	Vertical	PASS
12	17949.00	30.38	45.08	14.70	54.00	8.92	150	170	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52480 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

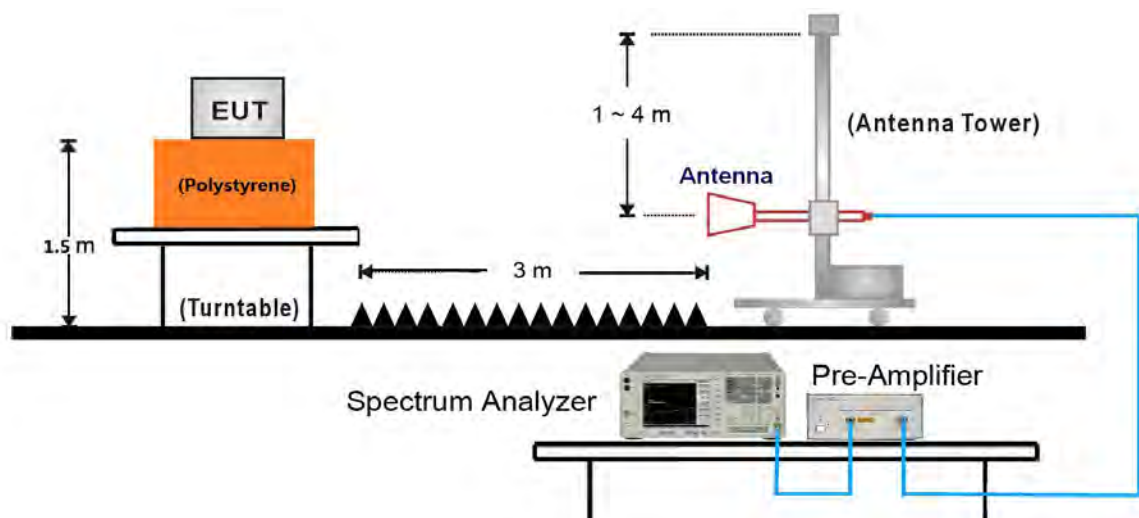
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

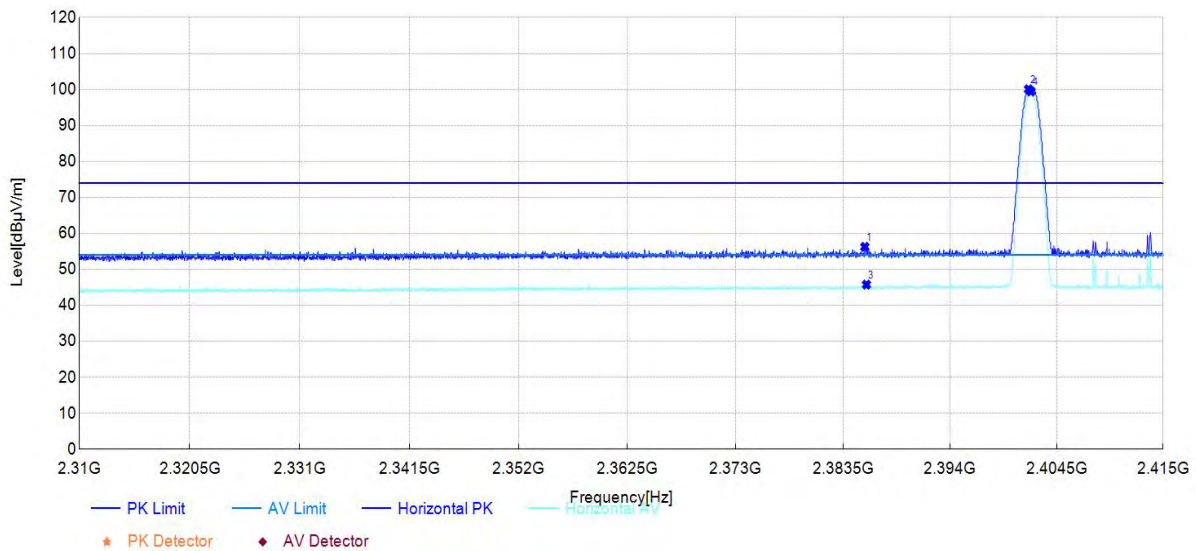
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



7.7.5. Test Result

Project Information			
EUT:	Embedded Wi-Fi/BLE Module	Model:	EMC3186-E
Test Date:	2025-05-13	Voltage:	DC 3.3V
Environment:	Temp: 23.6°C; Humi:34%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2402MHz		

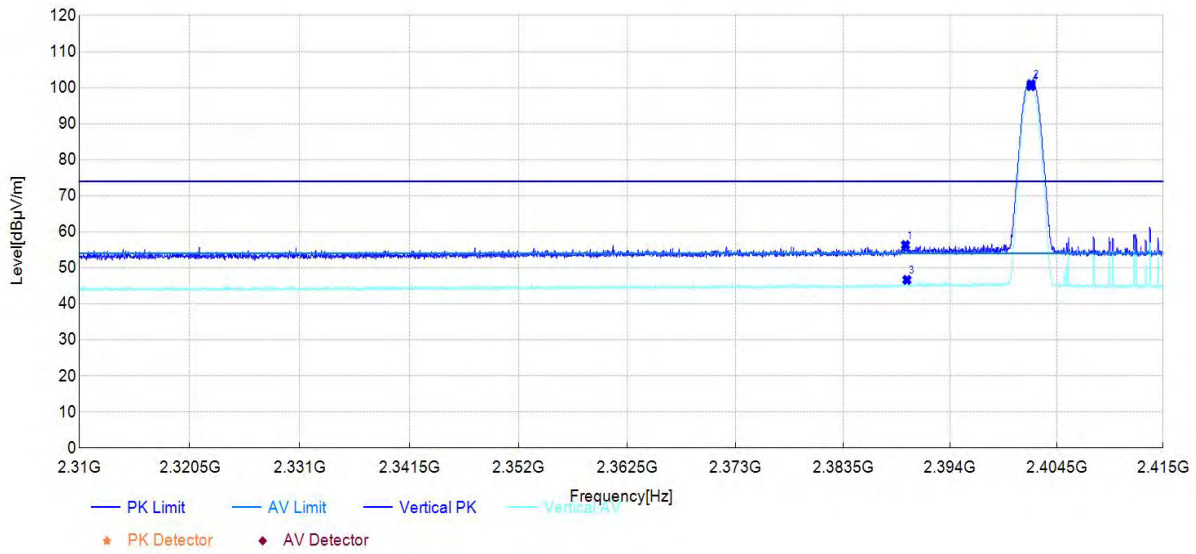


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2385.65	20.17	56.25	36.08	74.00	17.75	150	267	PK	Horizontal	PASS
2	2401.71	63.91	100.06	36.15	/	/	150	22	PK	Horizontal	PASS
3	2385.80	9.68	45.76	36.08	54.00	8.24	150	61	AV	Horizontal	PASS
4	2401.95	63.32	99.47	36.15	/	/	150	22	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

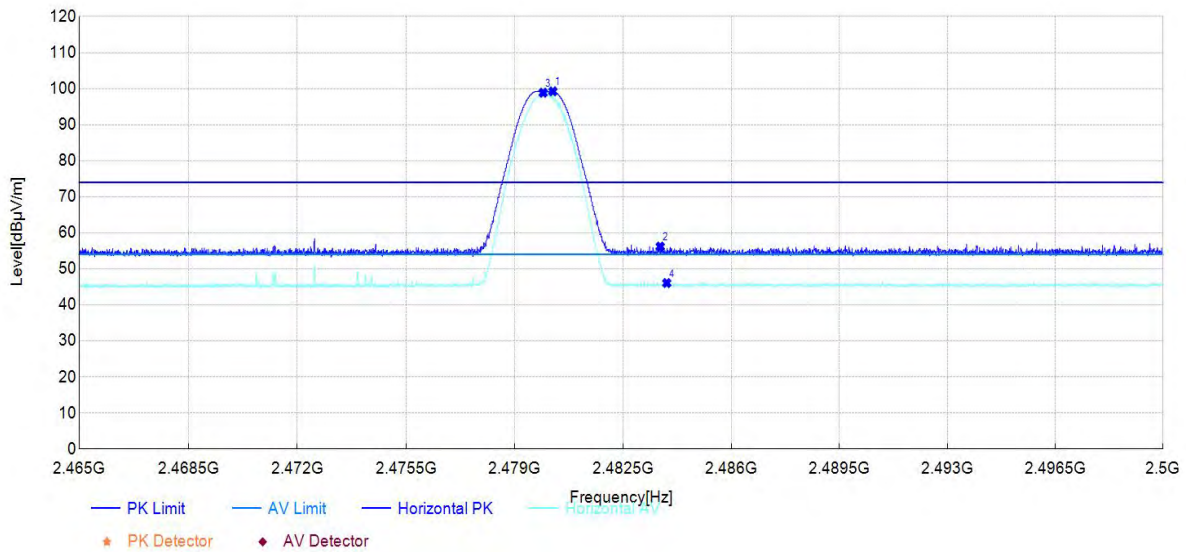
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.64	20.40	56.35	35.95	74.00	17.65	150	112	PK	Vertical	PASS
2	2401.98	65.00	100.99	35.99	/	/	150	67	PK	Vertical	PASS
3	2389.77	10.71	46.66	35.95	54.00	7.34	150	60	AV	Vertical	PASS
4	2401.95	64.41	100.40	35.99	/	/	150	70	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	Embedded Wi-Fi/BLE Module	Model:	EMC3186-E
Test Date:	2025-05-13	Voltage:	DC 3.3V
Environment:	Temp: 23.6°C; Humi:34%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2480MHz		

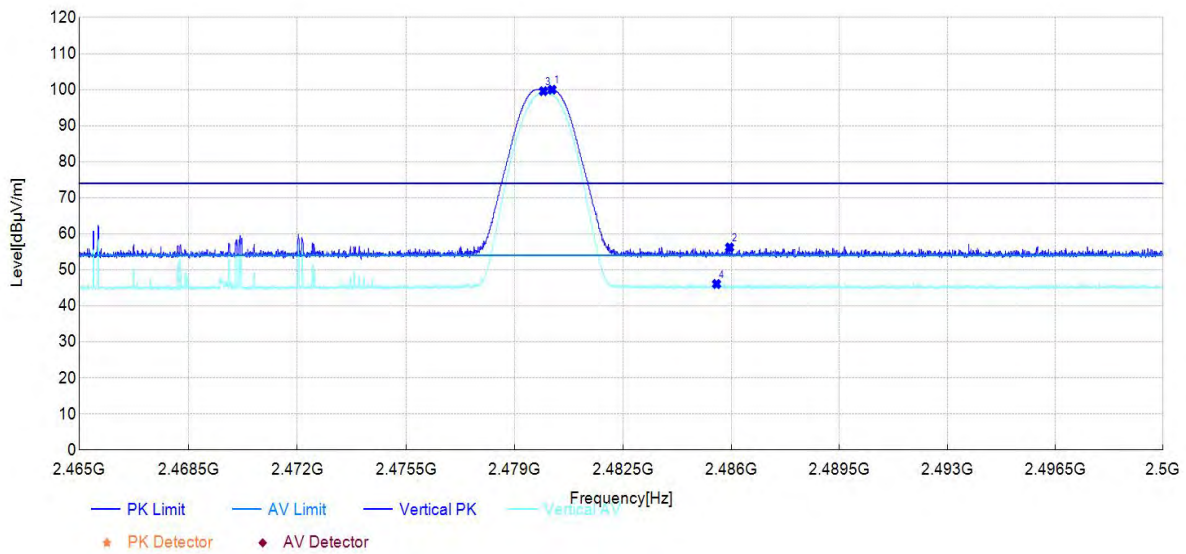


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.24	62.90	99.25	36.35	/	/	150	22	PK	Horizontal	PASS
2	2483.70	19.82	56.18	36.36	74.00	17.82	150	317	PK	Horizontal	PASS
3	2479.92	62.52	98.87	36.35	/	/	150	22	AV	Horizontal	PASS
4	2483.91	9.71	46.07	36.36	54.00	7.93	150	47	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.21	63.91	99.99	36.08	/	/	150	285	PK	Vertical	PASS
2	2485.94	20.13	56.22	36.09	74.00	17.78	150	357	PK	Vertical	PASS
3	2479.93	63.51	99.59	36.08	/	/	150	285	AV	Vertical	PASS
4	2485.52	9.99	46.08	36.09	54.00	7.92	150	357	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.8. AC Conducted Emissions Measurement

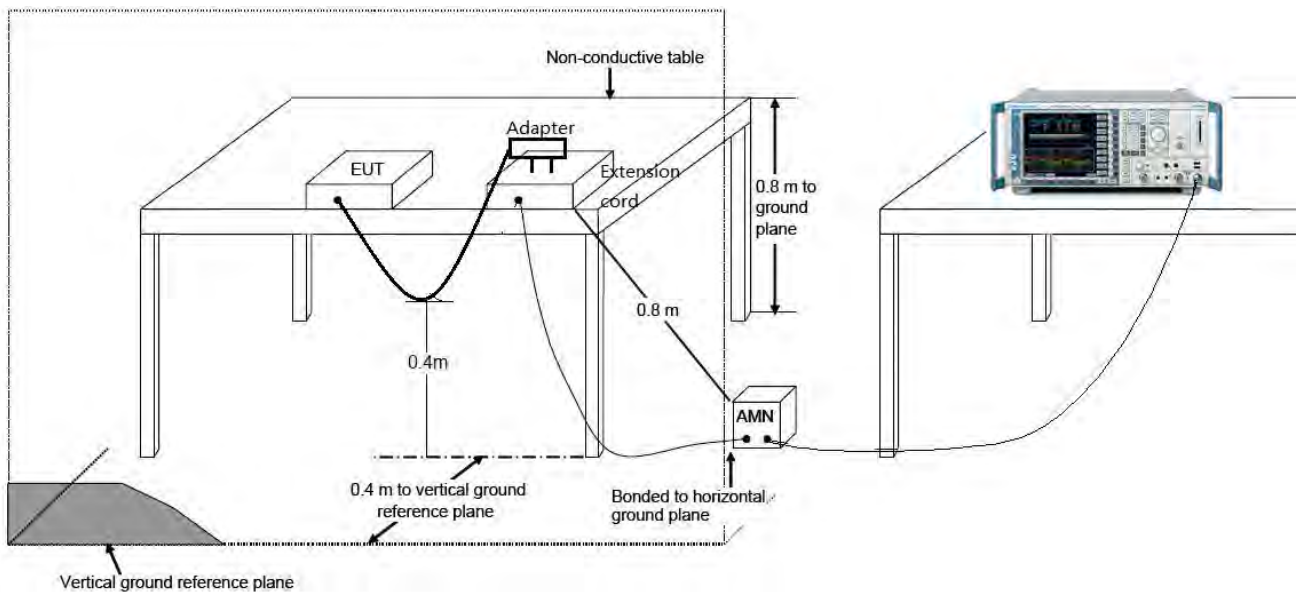
7.8.1. Test Limit

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

The EUT is DC 3.3V supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Embedded Wi-Fi/BLE Module (Model: EMC3186-E)** is in compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. Information about laboratory sites involved in our company:

No.2, Fangda Road, Yunpu Industrial Zone, Huangpu District, Guangzhou, Guangdong, China (Huangpu Laboratory)

Building 2 and Building 3, GRGTest Science and Technology Industrial Park, No.8, Chuangyun Road, Panyu District, Guangzhou, Guangdong, China (Panyu Laboratory)

Building G9, China Sensor Network International Innovation Park, No.200, Linghu Avenue, Wuxi, Jiangsu, China (Wuxi Innovation Park Laboratory)

Building 3, Maoxuan Industrial Park, No.81, Jinma Road, Hongshan Subdistrict, Xinwu District, Wuxi, Jiangsu, China (Maoxuan Industrial Park Laboratory)

3/F., Comprehensive Laboratory Building, No.8, Ningyun Road, Xinwu District, Wuxi, Jiangsu, China (Ningyun Road Laboratory)

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