



RF MEASUREMENT REPORT

FCC ID: P27-ES1B
Applicant: Sercomm Corporation
Product: ES1 (B)
Model No.: COESST11BEI
Brand Name: XUMO
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2026-01-13
Test Date: 2026-01-28 ~ 2026-02-10

Reviewed By:

Vincent Yu

Vincent Yu

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R26S1011013-U201	V01	Initial Report	2026-04-10	Valid

Note: The purpose of this test report is to evaluate Diplexer (FL1600, FL1601) 2nd source: RFDIP1607LB71T and add absorber Pad: ESA-015VH1_3.5T 10*5mm.

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1. General Information

1.1. Applicant

Sercomm Corporation

8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.

1.2. Manufacturer

Sercomm Corporation

8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory Laboratory Location (Suzhou Wuzhong - WZ) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou Industrial Park - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Location (Suzhou Wujiang - WJ) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China Laboratory Accreditations A2LA: 3628.01CNAS: L10551 FCC: CN1166ISED: CN0001
☐	Test Site - MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02CNAS: L10551 FCC: CN1284ISED: CN0105
☐	Test Site - MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: 3261 FCC: 291082, TW3261ISED: TW3261

1.4. Product Information

Product Name	ES1 (B)
Model No.	COESST11BEI
Serial No.	ES12SC525510AD70 (Conducted) ES12SC525510AD65 (Radiated)
Brand Name	XUMO
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Operating Temp.	0-40 °C
Hardware Version	DVT + Component Change
Software Version	COESST11BEI_VBN_25Q4_sprint_20251110123047sdy
Working Frequency Range	2.4 GHz Band: 2412 ~ 2462 MHz 5 GHz Band: 5180 ~ 5825 MHz
Power Supply	5 VDC 1.5 A, By Adapter
Accessory	
AC-DC PSU	Brand: LEADER Model: ML08-8050150-A1 Input: 120 V ~ 60 Hz 0.25 A Output: 5.0 V=1.5 A Serial No.: EPS-1U.11002718142445003631
Notes:	
1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	
2. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.	

1.5. Radio Specification under Test

Frequency Range	2400 ~ 2483.5 MHz
Channel Number	802.11b/g/n-HT20/ax-HE20: 11
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM 802.11ax: OFDMA
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 144.4 Mbps 802.11ax: up to 286.8 Mbps
Channel Puncturing Function	☐ Supported ☒ Unsupported
Support RU	☒ Full RU ☐ Partial RU

1.6. Working Frequencies

802.11b/g/n-HT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		Directional Gain (dBi)	
		Ant 0	Ant 1	For Power	For PSD
Wi-Fi Antennas					
PIFA	2400 ~ 2500	4.90	2.94	4.90	3.97
	5150 ~ 5250	3.26	2.92	3.26	5.83
	5250 ~ 5350	3.80	3.54	3.80	5.83
	5470 ~ 5725	4.18	3.23	4.18	5.43
	5725 ~ 5850	3.94	3.95	3.95	4.65

Note:

- The antenna gain and directional gain refer to manufacturer's antenna specification.
- For power measurements: Array Gain = 0 dB for $N_{ANT} \leq 4$, the directional gain = max antenna gain + array gain.
For power spectral density (PSD) measurements: the max directional gain (each angle) = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$.

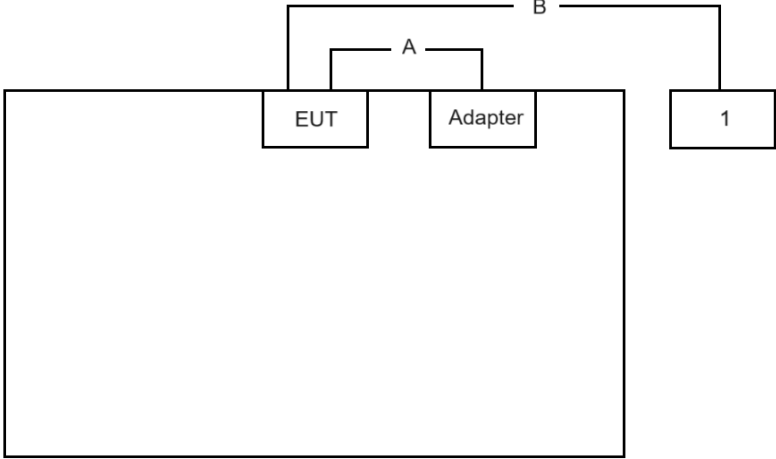
2. Test Configuration

2.1. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b _N _{SS} =1 (1 Mbps)
Mode 2: Transmit by 802.11g _N _{SS} =1 (6 Mbps)
Mode 3: Transmit by 802.11n-HT20 _N _{SS} =1 (MCS0)
Mode 4: Transmit by 802.11ax-HE20 _N _{SS} =1 (MCS0)
Note: All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate which power is the greatest.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated emissions testing and AC conducted emissions testing.

Connection Diagram			
			
Cable Type	Cable Description		Length
A	Power Cable	Non shielded	1.5 m
B	LAN Cable	Non shielded, Cat.5e	> 10 m
Product	Manufacturer		Model No.
1	Notebook	Lenovo	E430C

2.3. Test Software

The test utility software used during testing was “STBaccessMTool” and the version was 3_2_1_7.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01 v05r02
- KDB 662911 D01 v02r01
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **inbuilt antenna**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2026-12-03	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2026-04-26	SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2026-09-29	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2026-11-02	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2026-06-20	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2026-10-16	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2027-01-03	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2026-07-03	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2026-12-15	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2026-09-28	SIP-AC3
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07075	1 year	2026-11-18	SIP-AC3
USB Power Sensor	Keysight	U2021XA	MRTSUE06581	1 year	2026-06-12	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2026-10-16	SIP-TR1

Software	Version	Function
e3	230711	EMI Test Software
Controller_MF 7802BS	1.02	RE Antenna & Turntable
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9 kHz ~ 30 MHz: 2.56 dB
Coplanar:	9 kHz ~ 30 MHz: 2.55 dB
Horizontal:	30 MHz ~ 200 MHz: 3.48 dB
	200 MHz ~ 1 GHz: 4.17 dB
	1 GHz ~ 40 GHz: 5.01 dB
Vertical:	30 MHz ~ 200 MHz: 4.09 dB
	200 MHz ~ 1 GHz: 5.30 dB
	1 GHz ~ 40 GHz: 4.85 dB
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.4 dB	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(3)	Output Power	Conducted	Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emissions)	Radiated	Pass

Note: For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

Test item	2.4 GHz Band (Part 15.247)
Output Power	Each mode(b/g/n-HT20/ax-HE20) is tested one channel with the worst margin.
Radiated Spurious Emission	Only the one channel with the worst margin is tested.
Radiated Band-edge	Only the one channel with the worst margin is tested.

6.2. Output Power Measurement

6.2.1. Test Limit

The maximum output power shall be less 1 Watt (30 dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.2.2. Test Procedure

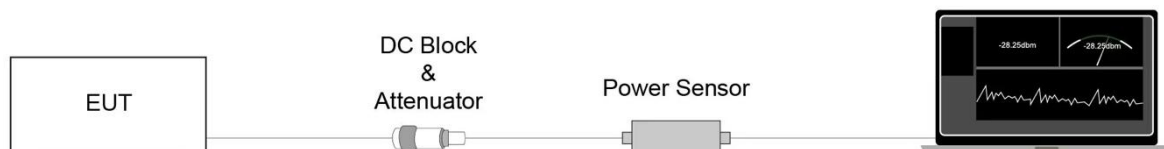
ANSI C63.10-2020 - Section 11.9.2.3.2

6.2.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Radiated Spurious Emissions Measurement

6.3.1. Test Limit

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	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

6.3.2. Test Procedure

ANSI C63.10-2020 - Section 11.11 & 11.12

ANSI C63.10-2020 - Section 6.3 (General Requirements)

ANSI C63.10-2020 - Section 6.4 (Standard test method below 30 MHz)

ANSI C63.10-2020 - Section 6.5 (Standard test method above 30 MHz to 1 GHz)

ANSI C63.10-2020 - Section 6.6 (Standard test method above 1 GHz)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1 GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1 MHz
3. RBW = as specified in Table 1
4. $VBW \geq 3 \times RBW$
5. Detector = CISPR quasi-peak
6. Sweep time = Auto couple
7. Trace was allowed to stabilize

Peak Measurements above 1 GHz

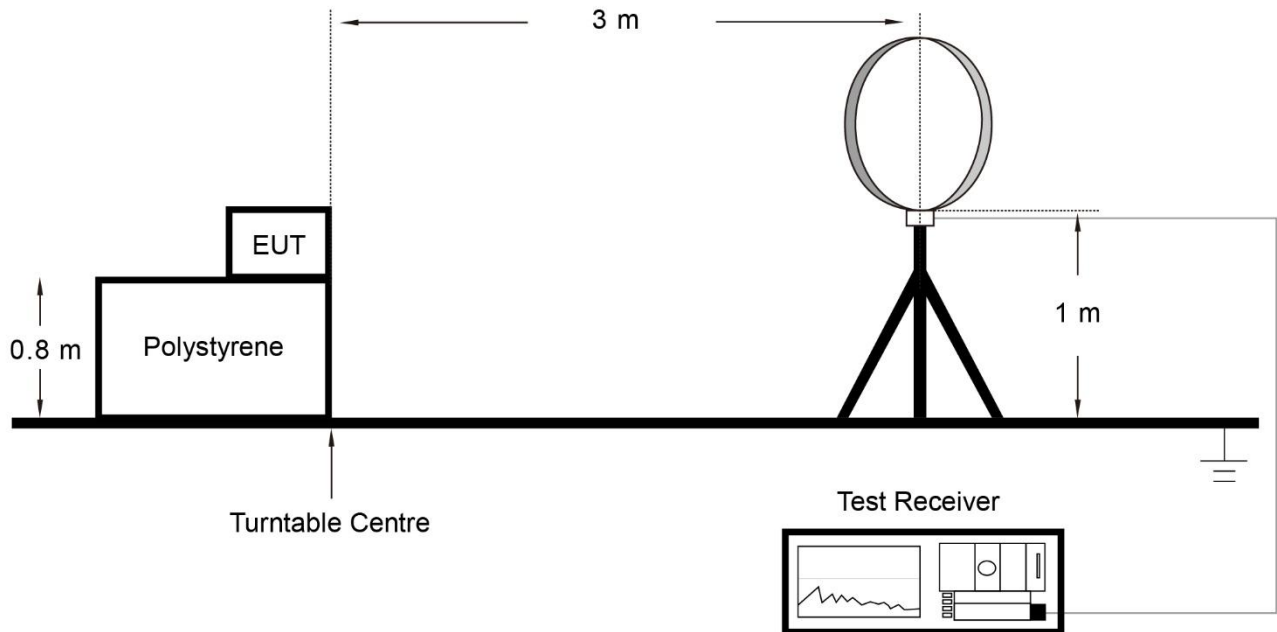
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1 GHz (Method VB)

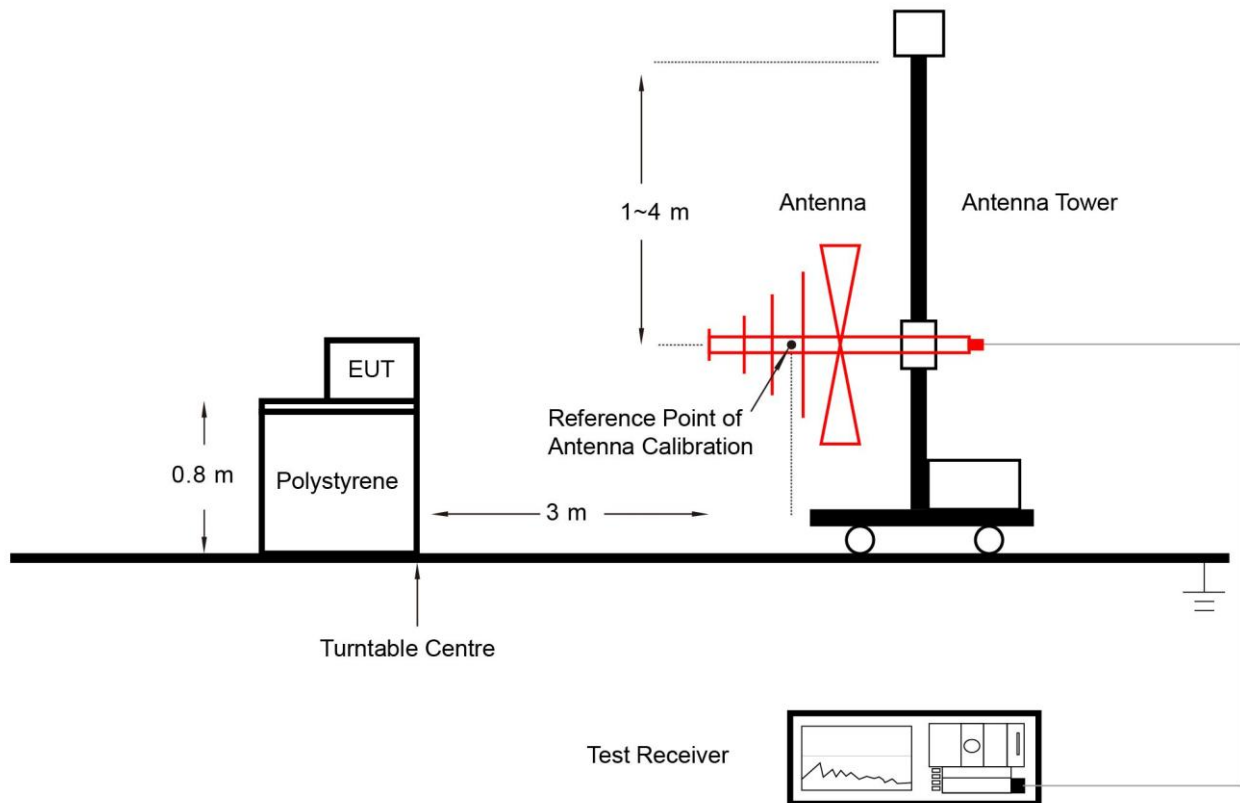
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.3.4. Test Setup

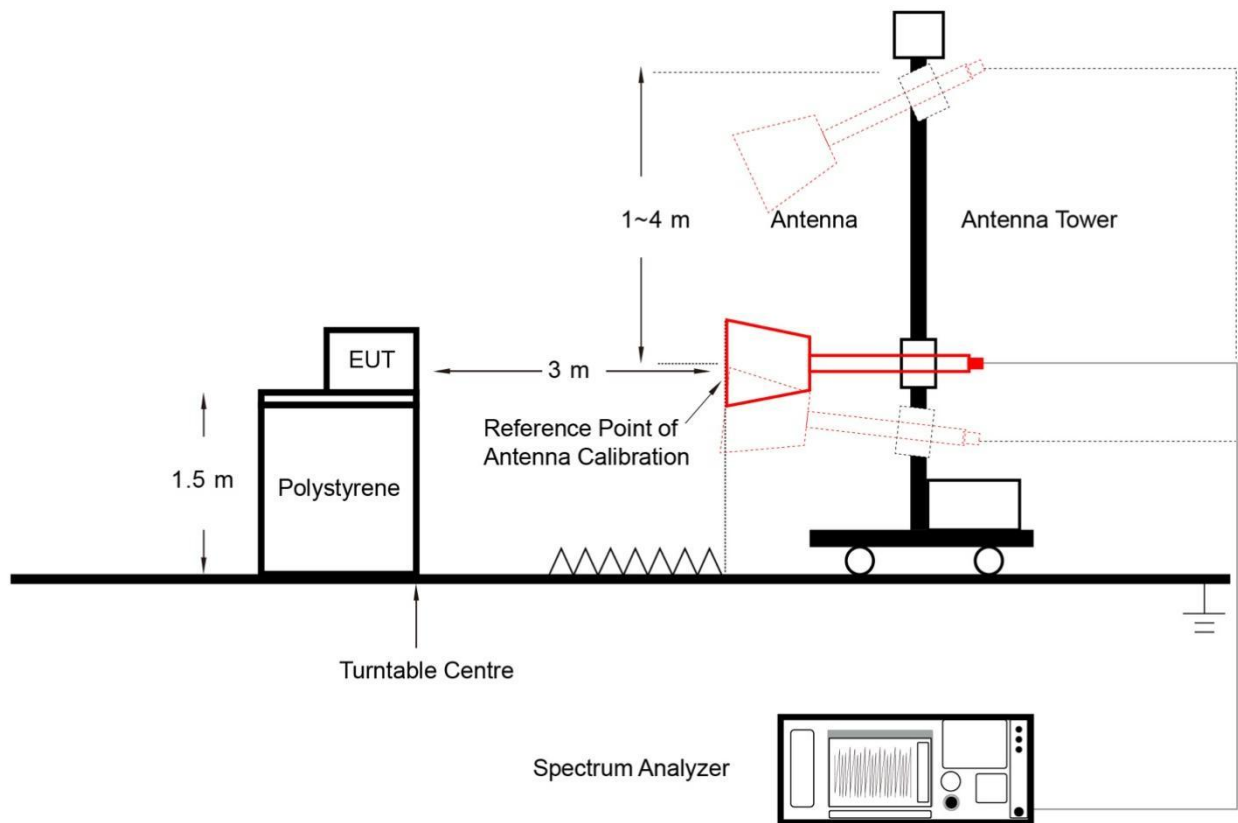
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. 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	8.025 - 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	156.52475 - 156.52525	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 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	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

6.4.2. Test Procedure

ANSI C63.10-2020 - Section 6.3 & 6.6 & 11.12

6.4.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

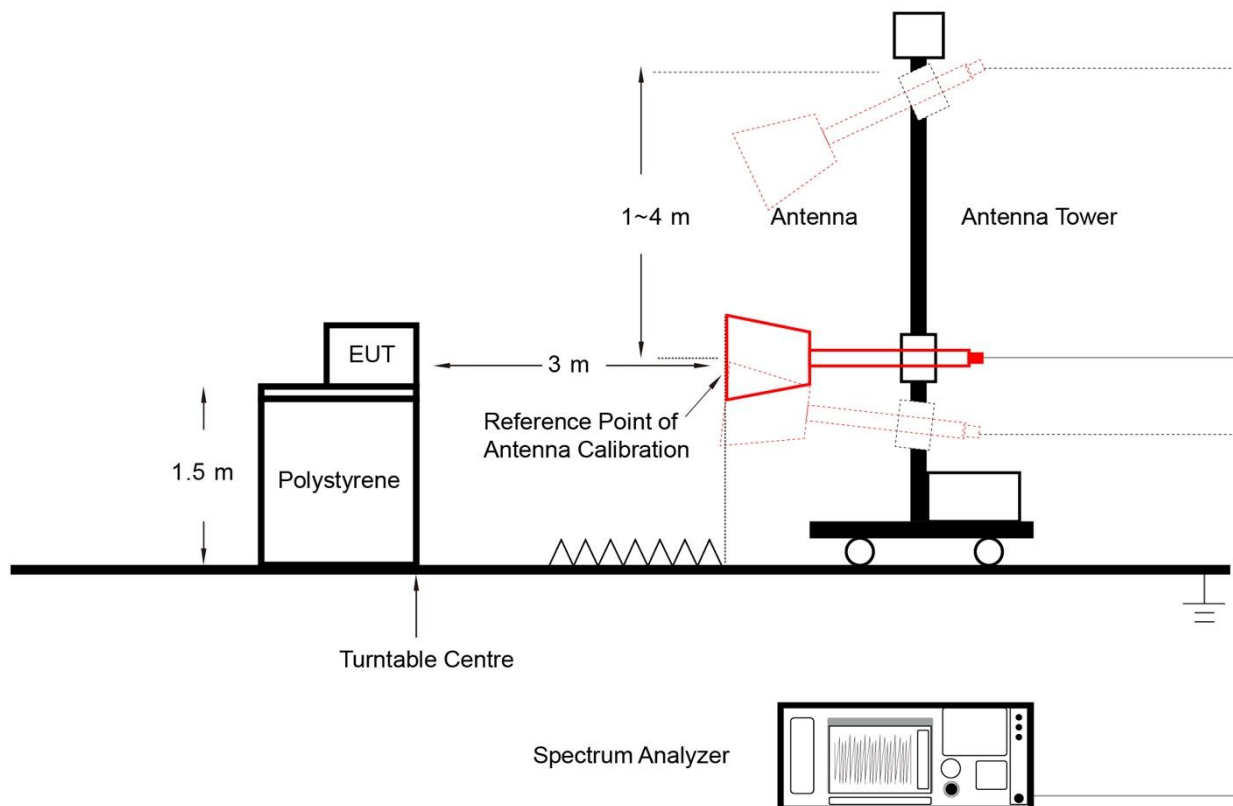
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

Appendix A - Test Result

A.1 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2026-01-29		

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
11b	1 Mbps	06	2437	18.82	18.42	21.63	≤ 30.00
11g	6 Mbps	06	2437	17.69	17.27	20.50	≤ 30.00
11n-HT20	MCS0	06	2437	17.55	17.21	20.39	≤ 30.00
11ax-HE20	MCS0	06	2437	17.76	17.38	20.58	≤ 30.00

Note: Total Average Power (dBm) = $10 \times \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$ (dBm).

A.2 Radiated Spurious Emissions Test Result

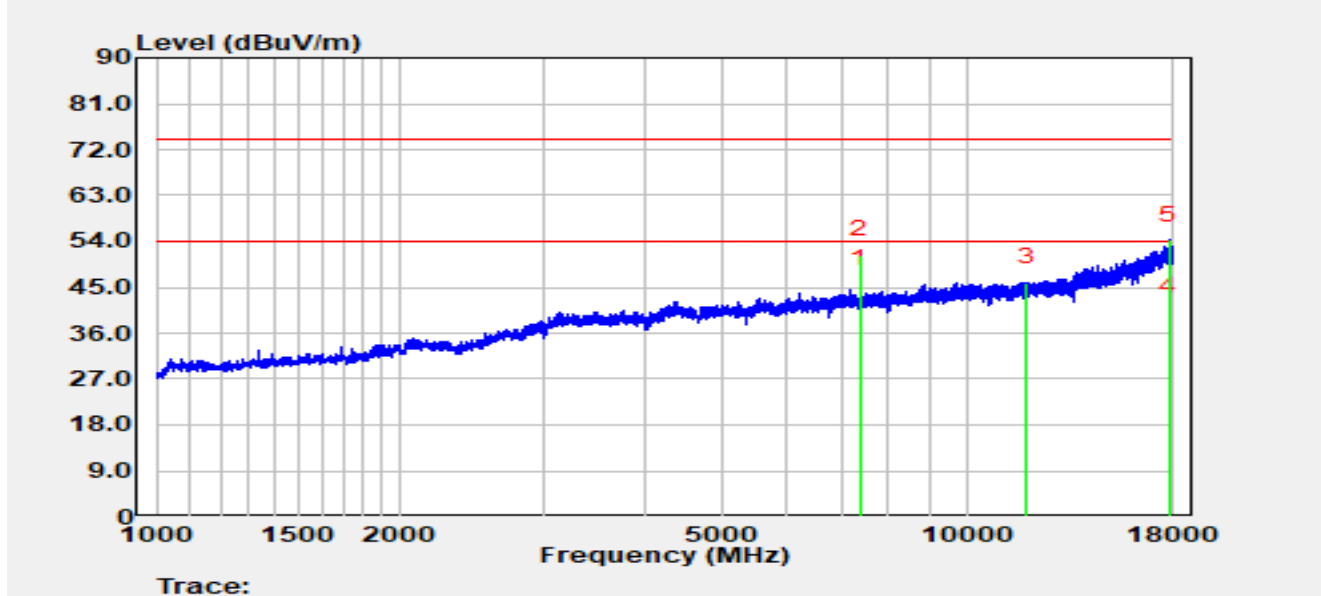
Test Site	SIP-AC3	Test Engineer	Justin Guo
Test Date	2026-01-29	Test Mode	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	7386.90	55.86	-4.45	51.41	74.00	-22.59	Peak	Horizontal
	7386.90	50.10	-4.45	45.65	54.00	-8.35	Average	Horizontal
	11880.00	46.69	-0.78	45.92	74.00	-28.08	Peak	Horizontal
	17772.20	45.55	8.62	54.17	74.00	-19.83	Peak	Horizontal
	17772.20	31.64	8.62	40.26	54.00	-13.74	Average	Horizontal
	7386.90	50.54	-4.45	46.09	74.00	-27.91	Peak	Vertical
	12257.40	47.13	-0.38	46.75	74.00	-27.25	Peak	Vertical
	17824.90	44.72	9.32	54.03	74.00	-19.97	Peak	Vertical
	17824.90	31.58	9.32	40.90	54.00	-13.10	Average	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site	SIP-AC3	Test Date	2026-01-29
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part15.209_RSE(3m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2462 MHz		

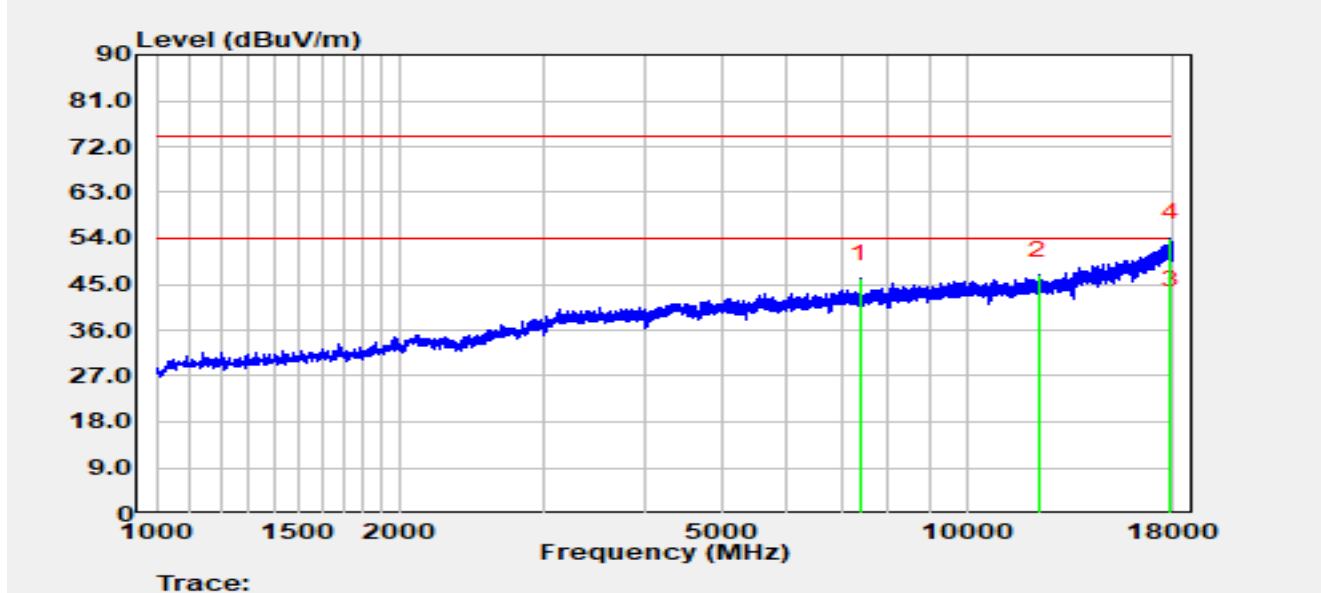


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	7386.900	50.10	-4.45	45.65	-8.35	54.00	Average
2		7386.900	55.86	-4.45	51.41	-22.59	74.00	Peak
3		11880.000	46.69	-0.78	45.92	-28.08	74.00	Peak
4		17772.200	31.64	8.62	40.26	-13.74	54.00	Average
5		17772.200	45.55	8.62	54.17	-19.83	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-29
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part15.209_RSE(3m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2462 MHz		



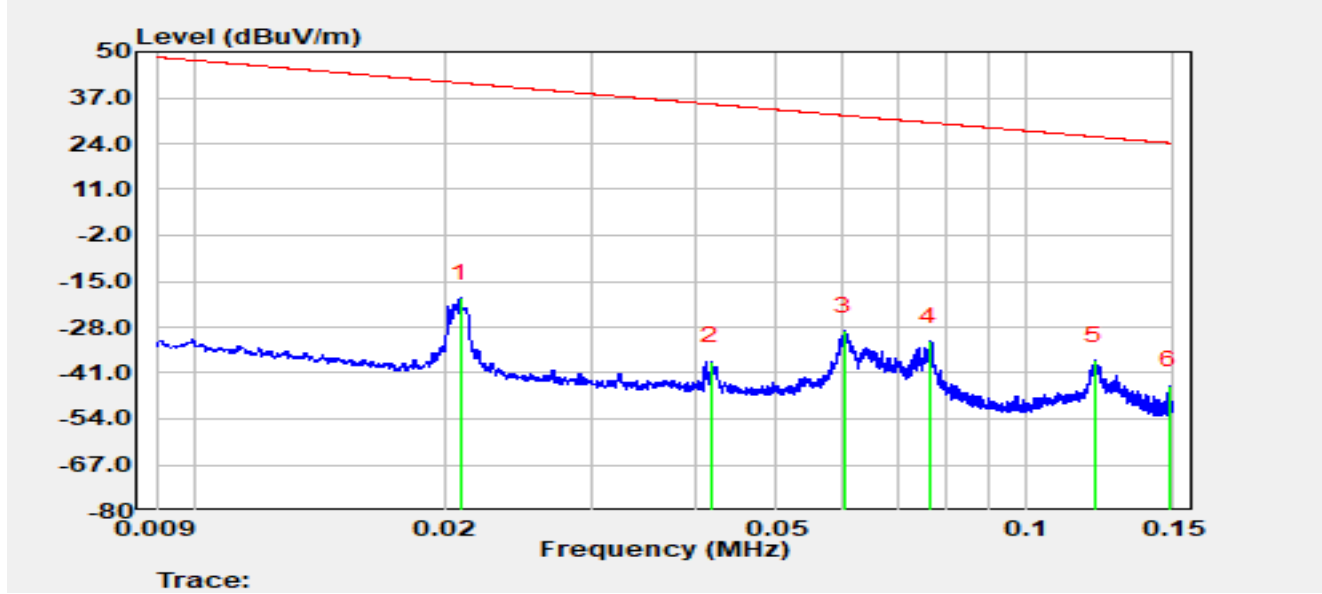
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		7386.900	50.54	-4.45	46.09	-27.91	74.00	Peak
2		12257.400	47.13	-0.38	46.75	-27.25	74.00	Peak
3	*	17824.900	31.58	9.32	40.90	-13.10	54.00	Average
4		17824.900	44.72	9.32	54.03	-19.97	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The Result of Radiated Emission 9 kHz ~ 30 MHz:

Site	SIP-AC3	Test Date	2026-02-10
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Coaxial
Test Mode	Transmit by 802.11b at 2462 MHz		

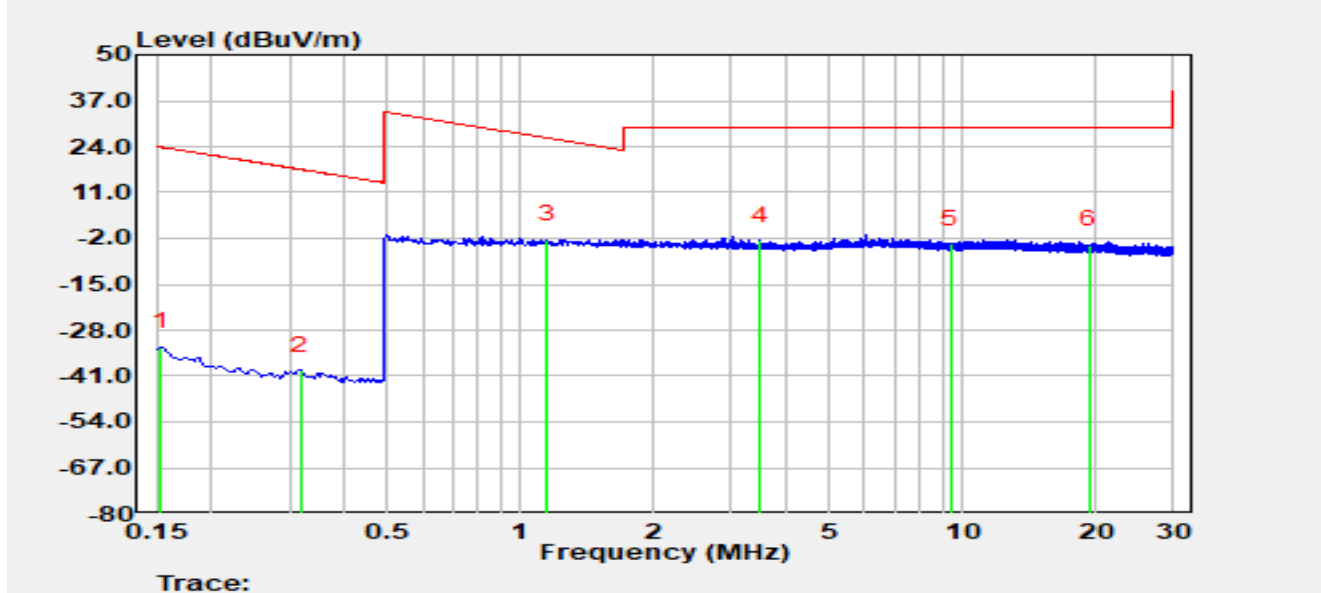


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.021	40.39	-60.28	-19.89	-61.09	41.20	Peak
2		0.042	22.80	-60.38	-37.58	-72.76	35.18	Peak
3		0.060	31.42	-60.56	-29.14	-61.12	31.98	Peak
4		0.076	28.62	-60.61	-31.98	-61.91	29.93	Peak
5		0.121	23.14	-60.60	-37.46	-63.42	25.96	Peak
6		0.148	15.93	-60.60	-44.67	-68.85	24.18	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + $40 \times \log(d1/d2)$ (dB), $d1 = 3$ m, $d2 = 300$ m (9 kHz - 490 kHz) or 30 m (490 kHz - 30 MHz).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-02-10
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Coaxial
Test Mode	Transmit by 802.11b at 2462 MHz		

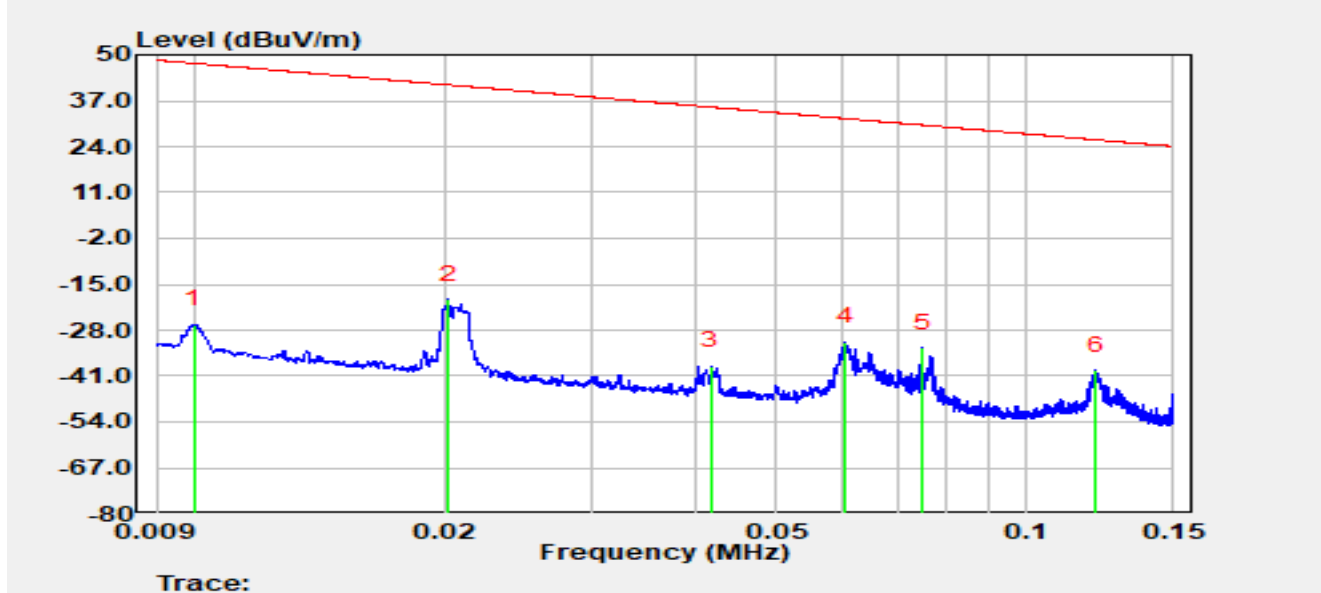


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		0.153	27.93	-60.61	-32.67	-56.58	23.91	Peak
2		0.317	21.36	-60.67	-39.31	-56.89	17.58	Peak
3	*	1.147	18.22	-20.69	-2.47	-28.90	26.43	Peak
4		3.484	18.00	-20.60	-2.59	-32.09	29.50	Peak
5		9.415	16.68	-20.22	-3.54	-33.04	29.50	Peak
6		19.329	16.34	-20.10	-3.76	-33.26	29.50	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + $40 \times \log(d1/d2)$ (dB), $d1 = 3$ m, $d2 = 300$ m (9 kHz - 490 kHz) or 30 m (490 kHz - 30 MHz).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-02-10
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Coplanar
Test Mode	Transmit by 802.11b at 2462 MHz		

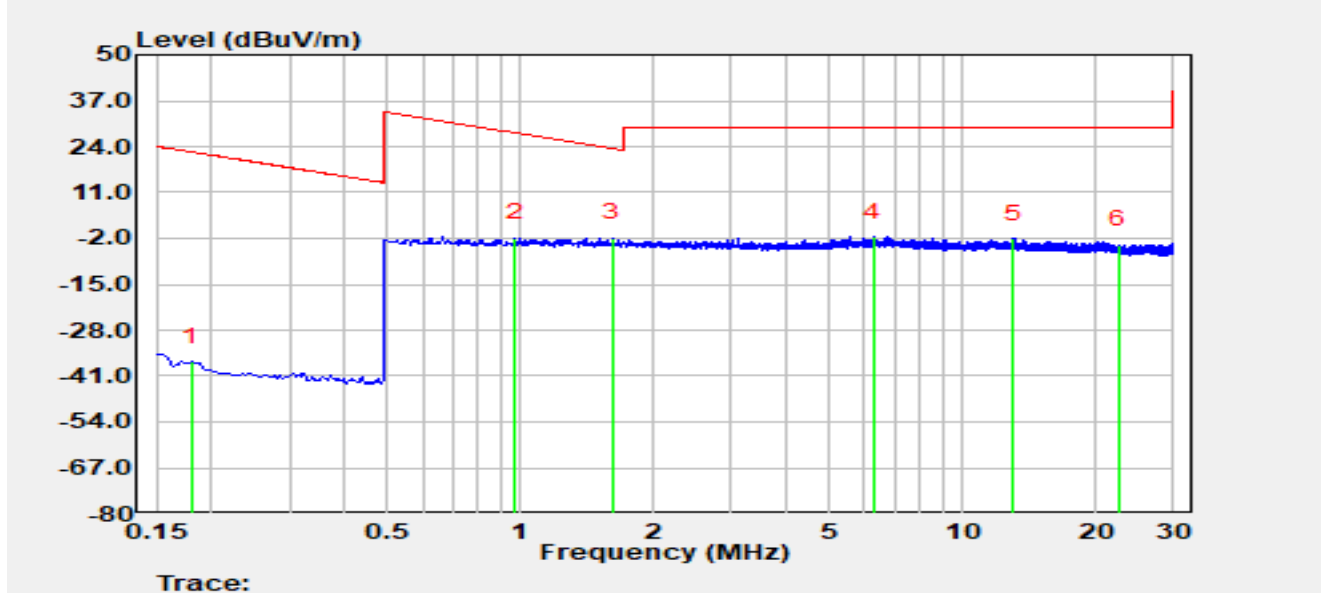


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		0.010	33.15	-59.57	-26.41	-74.00	47.58	Peak
2	*	0.020	41.04	-60.27	-19.23	-60.73	41.50	Peak
3		0.042	22.29	-60.38	-38.09	-73.26	35.17	Peak
4		0.060	29.31	-60.56	-31.25	-63.22	31.97	Peak
5		0.075	27.48	-60.61	-33.12	-63.23	30.10	Peak
6		0.121	21.11	-60.60	-39.49	-65.44	25.95	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + $40 \times \log(d1/d2)$ (dB), $d1 = 3$ m, $d2 = 300$ m (9 kHz - 490 kHz) or 30 m (490 kHz - 30 MHz).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-02-10
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Coplanar
Test Mode	Transmit by 802.11b at 2462 MHz		



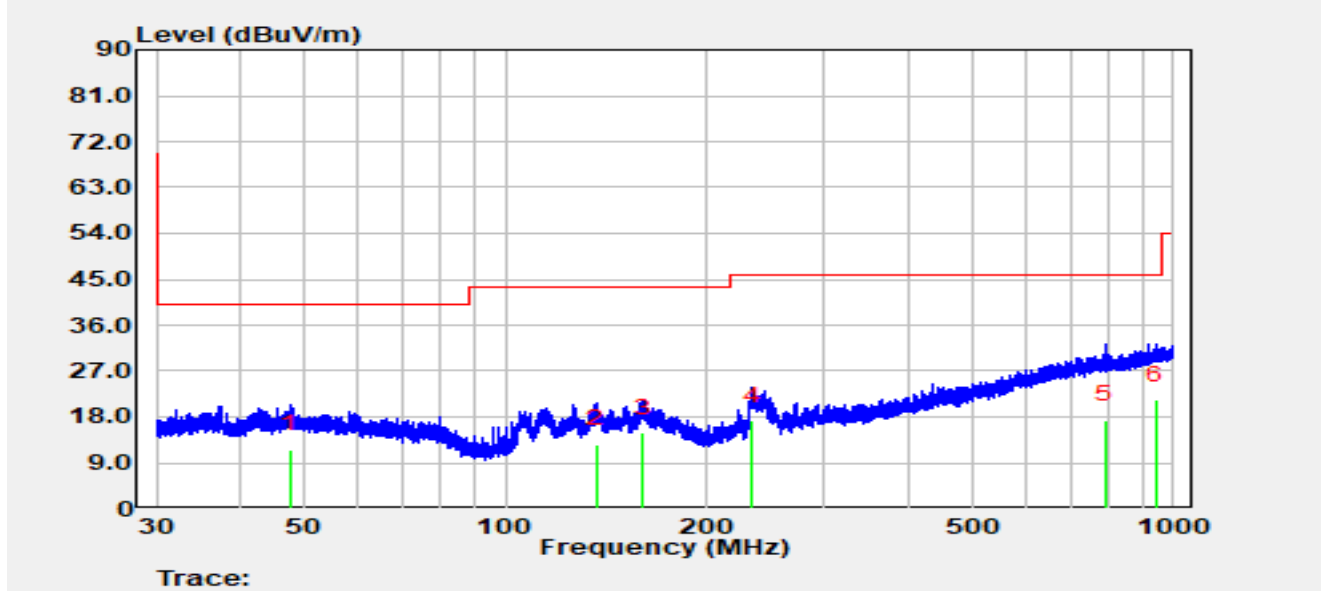
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		0.180	23.68	-60.62	-36.94	-59.44	22.50	Peak
2		0.971	18.71	-20.69	-1.97	-29.85	27.88	Peak
3	*	1.616	18.81	-20.63	-1.82	-25.29	23.47	Peak
4		6.266	18.91	-20.46	-1.55	-31.05	29.50	Peak
5		13.069	18.27	-20.34	-2.06	-31.56	29.50	Peak
6		22.591	16.21	-19.95	-3.74	-33.24	29.50	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + $40 \times \log(d1/d2)$ (dB), $d1 = 3$ m, $d2 = 300$ m (9 kHz - 490 kHz) or 30 m (490 kHz - 30 MHz).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The Result of Radiated Emission 30 MHz ~ 1 GHz:

Site	SIP-AC3	Test Date	2026-01-30
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part15.209_RSE(3 m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2462 MHz		

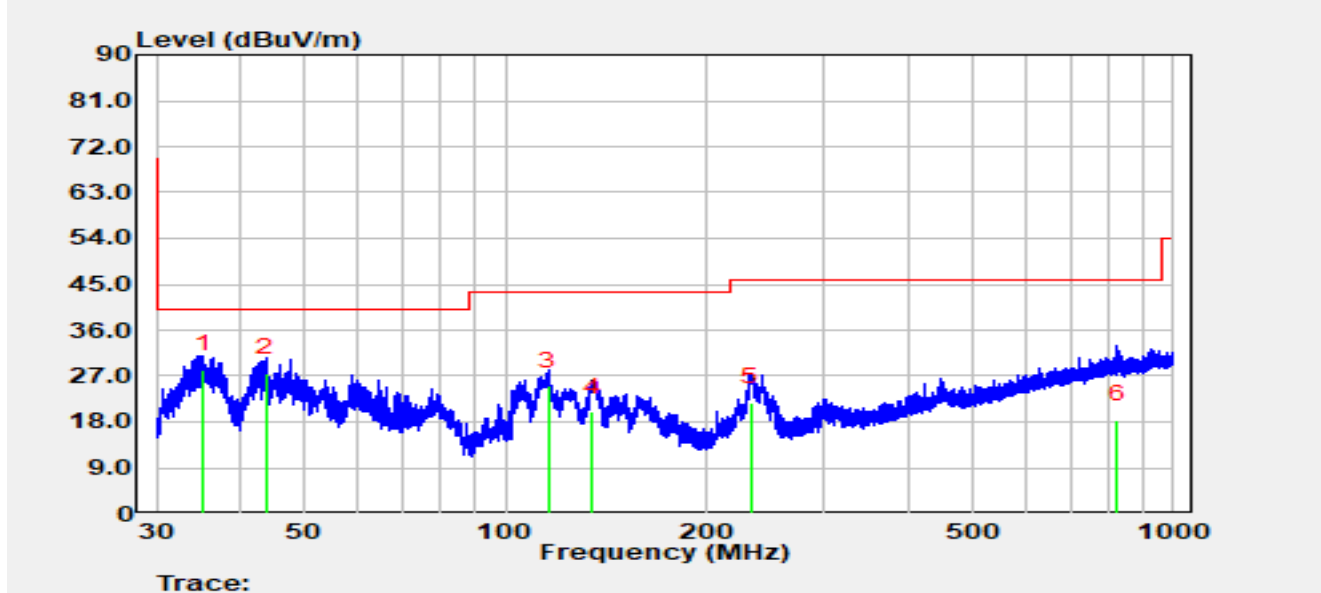


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		47.575	-6.70	18.31	11.61	-28.39	40.00	QP
2		136.412	-4.80	17.44	12.64	-30.86	43.50	QP
3		160.909	-3.40	18.19	14.79	-28.71	43.50	QP
4		233.840	1.20	16.05	17.25	-28.75	46.00	QP
5		792.006	-11.60	29.07	17.47	-28.53	46.00	QP
6	*	939.491	-9.40	30.72	21.32	-24.68	46.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-30
Temperature	16.7°C	Humidity	48.2%
Limit	FCC_Part15.209_RSE(3 m)	Test Engineer	Yuuki Qiu
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2462 MHz		



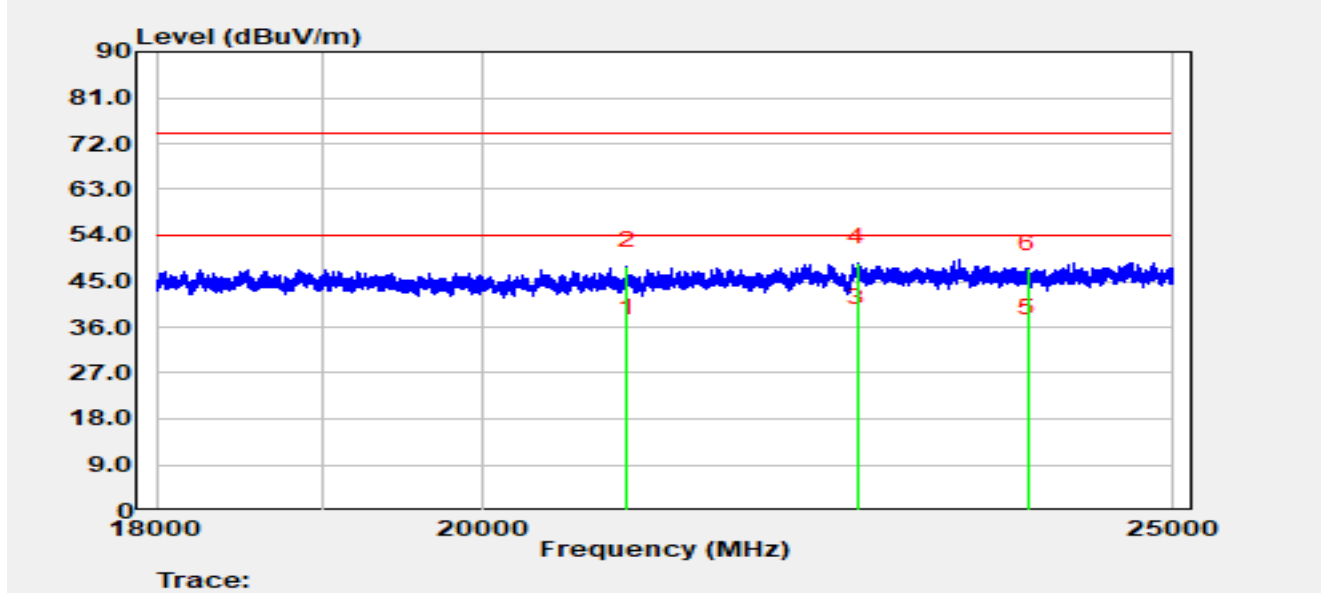
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	35.338	11.10	17.21	28.31	-11.69	40.00	QP
2		43.766	9.50	18.12	27.62	-12.38	40.00	QP
3		115.969	9.10	15.87	24.97	-18.53	43.50	QP
4		134.795	2.70	17.32	20.02	-23.48	43.50	QP
5		232.450	6.00	15.90	21.90	-24.10	46.00	QP
6		825.465	-10.60	29.00	18.40	-27.60	46.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The Result of Radiated Emission above 18 GHz:

Site	SIP-AC3	Test Date	2026-01-29
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part15.209_RSE(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2462 MHz		

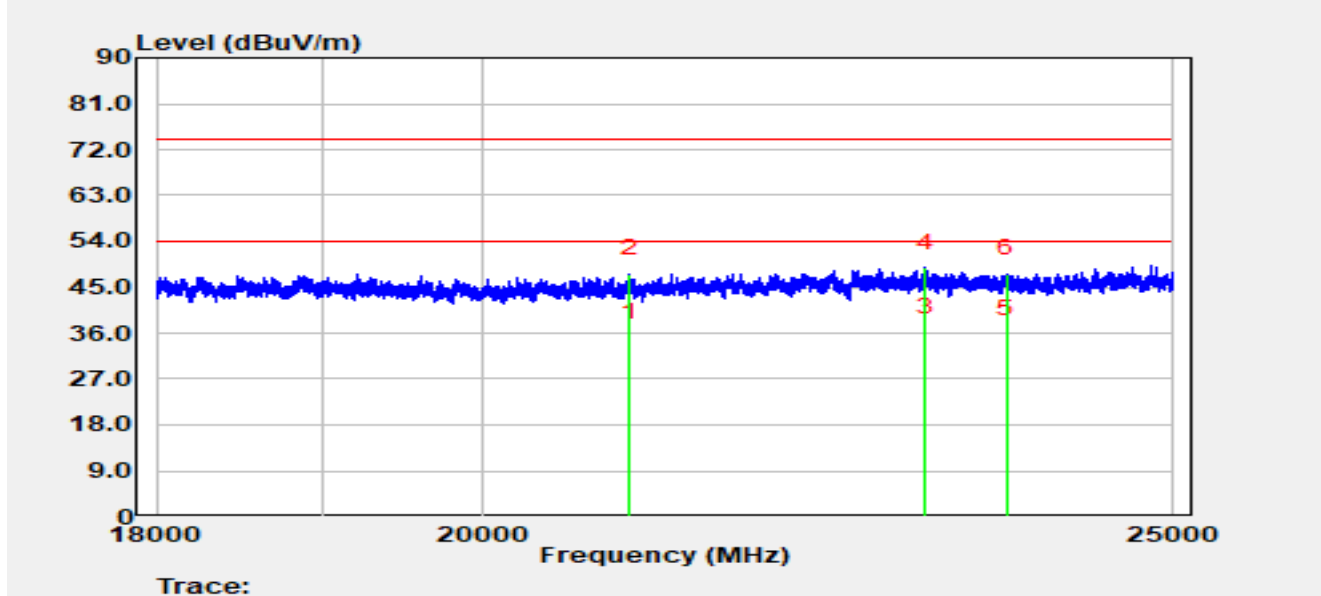


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		20955.400	43.35	-8.44	34.91	-19.09	54.00	Average
2		20955.400	56.49	-8.44	48.05	-25.95	74.00	Peak
3	*	22570.300	42.93	-5.99	36.94	-17.06	54.00	Average
4		22570.300	54.66	-5.99	48.66	-25.34	74.00	Peak
5		23852.000	42.43	-7.46	34.97	-19.03	54.00	Average
6		23852.000	54.97	-7.46	47.51	-26.49	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-29
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part15.209_RSE(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2462 MHz		



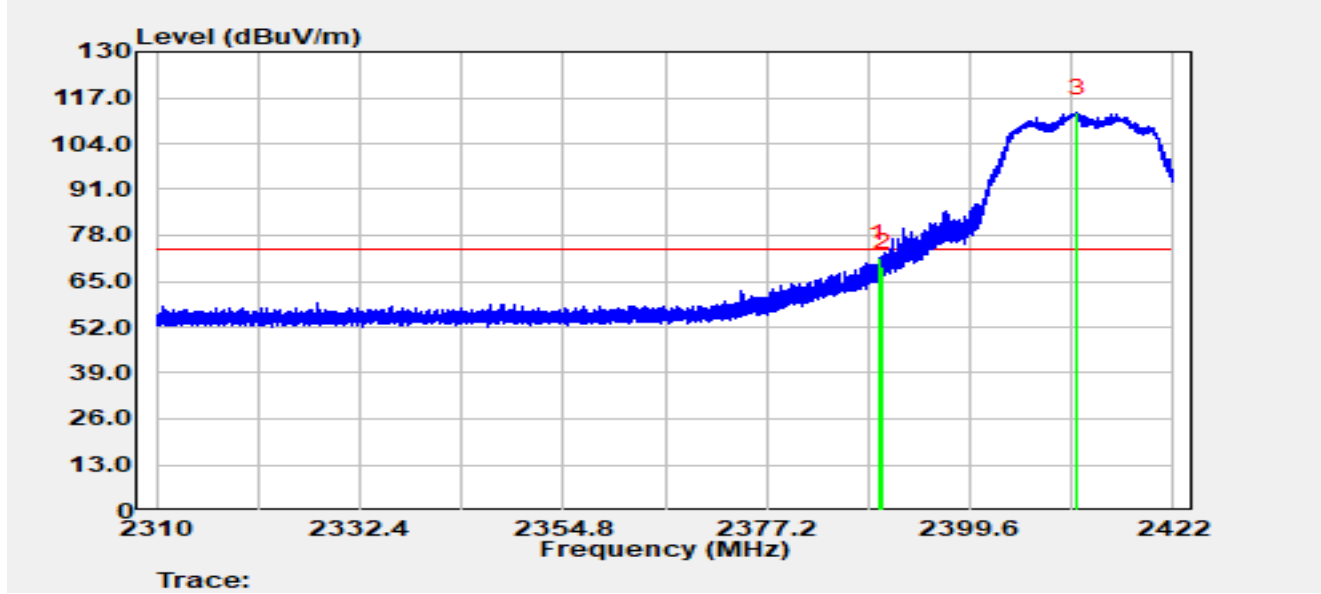
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		20975.700	43.36	-8.12	35.24	-18.76	54.00	Average
2		20975.700	55.68	-8.12	47.56	-26.44	74.00	Peak
3	*	23078.500	42.48	-6.26	36.22	-17.78	54.00	Average
4		23078.500	55.03	-6.26	48.77	-25.23	74.00	Peak
5		23691.000	42.65	-6.98	35.67	-18.33	54.00	Average
6		23691.000	54.69	-6.98	47.71	-26.29	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

A.3 Radiated Restricted Band Edge Test Result

Site	SIP-AC3	Test Date	2026-01-28
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part 15_Band Edge(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2412 MHz		

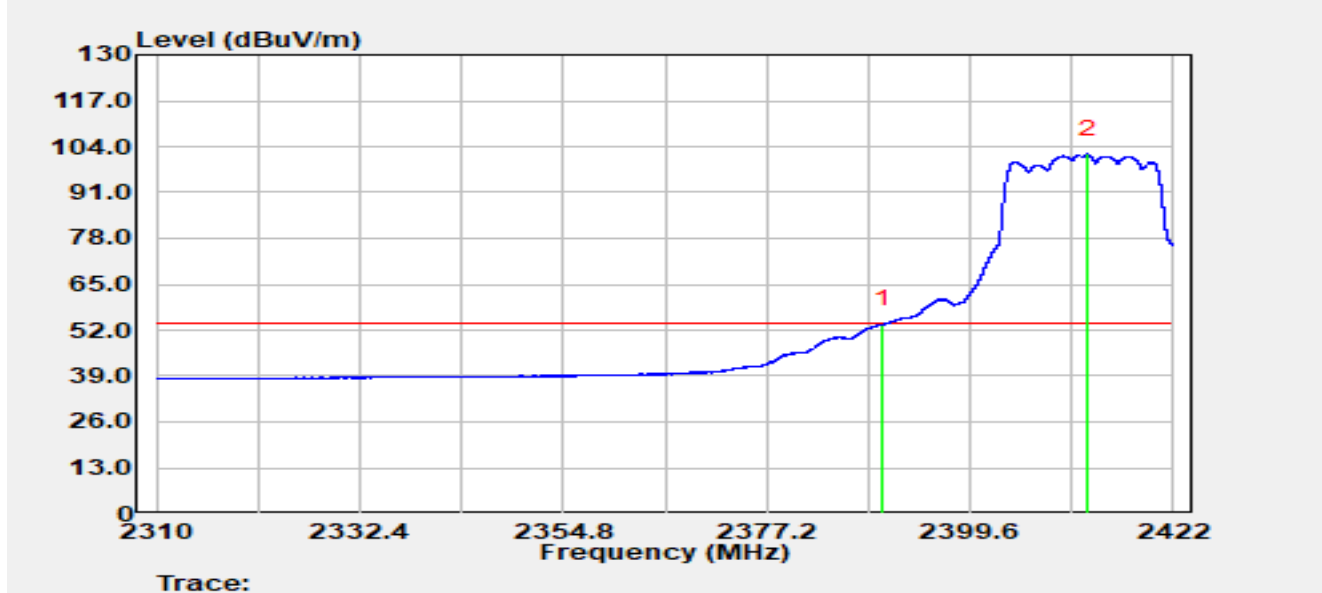


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.542	37.31	34.23	71.54	-2.46	74.00	Peak
2		2390.000	34.82	34.23	69.05	-4.95	74.00	Peak
3		2411.394	78.25	34.34	112.59	N/A	N/A	Peak

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-28
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part 15_Band Edge(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2412 MHz		

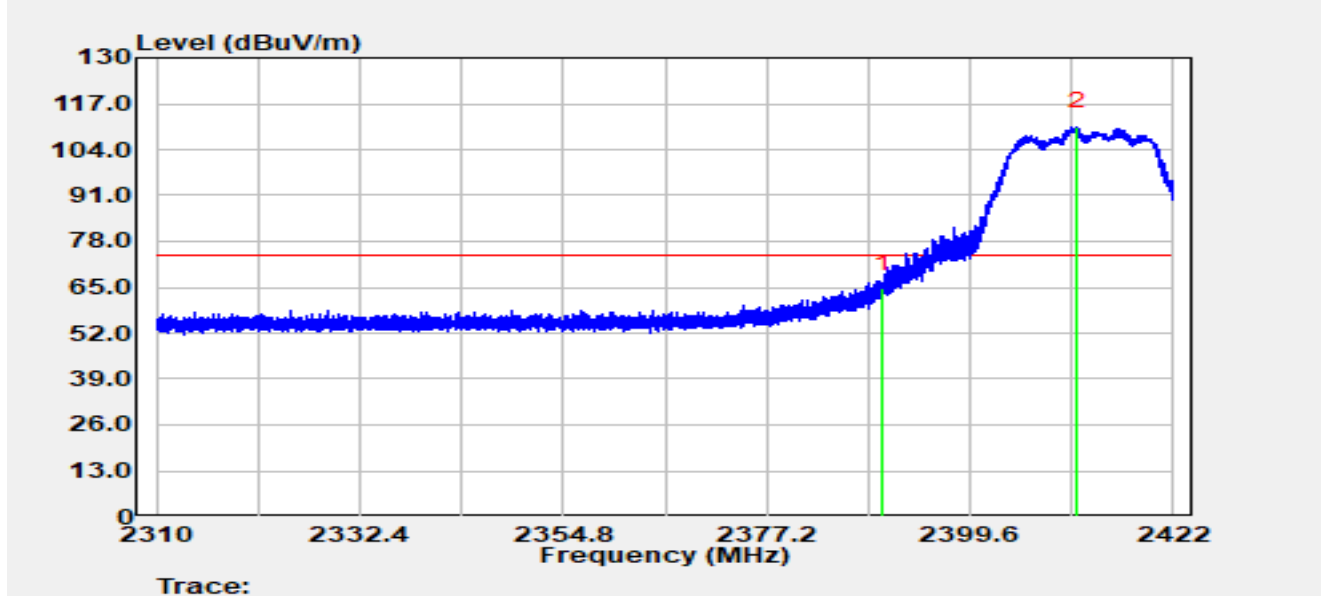


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2390.000	19.39	34.23	53.62	-0.38	54.00	Average
2		2412.514	67.48	34.35	101.83	N/A	N/A	Average

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-28
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part 15_Band Edge(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2412 MHz		

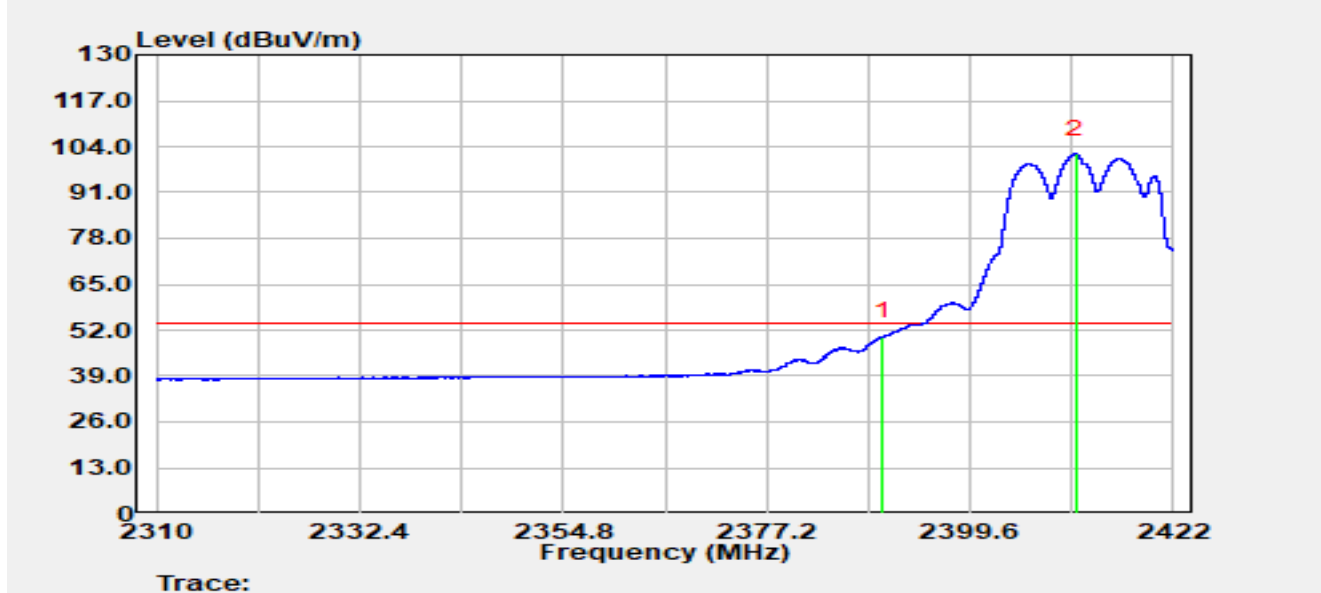


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2390.000	30.44	34.23	64.67	-9.33	74.00	Peak
2		2411.472	76.05	34.34	110.39	N/A	N/A	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC3	Test Date	2026-01-28
Temperature	16.5°C	Humidity	39.4%
Limit	FCC_Part 15_Band Edge(3 m)	Test Engineer	Justin Guo
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2412 MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2390.000	15.90	34.23	50.13	-3.87	54.00	Average
2		2411.237	67.53	34.34	101.87	N/A	N/A	Average

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Appendix B - Test Setup Photograph

Refer to "R26S1011013-UT" file.

Appendix C - EUT Photograph

Refer to "R26S1011013-UE" file.

_____ The End _____