

RF MEASUREMENT REPORT

FCC ID: 2BAXN-MR0006

Applicant: Willand (Beijing) Technology Co., LTD.

Product: Antenna

Model No.: X3R00G

Brand Name: Segway Navimow

FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)

FCC Rule Part(s): Part15 Subpart C (Section 15.247)

Result: Complies

Received Date: 2024-11-04

Test Date: 2024-12-25 ~ 2024-12-27

Reviewed By:

Vincent Yu

Approved By:

Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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
2411RSU004-U2	V01	Initial Report	2025-01-10	Valid

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1. General Information

1.1. Applicant

Willand (Beijing) Technology Co., LTD.

Room 203, A1 Bldg. Zhongguancun Dongsheng Technology Park (Northern Territory), No. 66, Xixiaokou Rd,
Haidian Dist., Beijing, China.

1.2. Manufacturer

Willand (Beijing) Technology Co., LTD.

Room 203, A1 Bldg. Zhongguancun Dongsheng Technology Park (Northern Territory), No. 66, Xixiaokou Rd,
Haidian Dist., Beijing, China.

Navimow B.V.

Dynamostraat 7, 1014 BN Amsterdam, The Netherlands

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory			
	Laboratory Location (Suzhou - Wuzhong)			
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China			
	Laboratory Location (Suzhou - SIP)			
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China			
	Laboratory Location (Suzhou - Wujiang)			
	Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China			
☐	Laboratory Accreditations			
	A2LA: 3628.01		CNAS: L10551	
	FCC: CN1166		ISED: CN0001	
	VCCI:	☐ R-20025	☐ G-20034	☐ C-20020
		☐ T-20020		
		☐ R-20141	☐ G-20134	☐ C-20103
			☐ T-20104	
☐	Test Site – MRT Shenzhen Laboratory			
	Laboratory Location (Shenzhen)			
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China			
	Laboratory Accreditations			
	A2LA: 3628.02		CNAS: L10551	
☐	FCC: CN1284		ISED: 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, TW3261		ISED: TW3261	

1.4. Product Information

Product Name	Antenna
Model No.	X3R00G
Brand Name	Segway Navimow
EUT Identification No.	20241104Sample#14
SRD Specification	915.05 ~ 917.9MHz
Antenna Information	Refer to section 1.5
Operating Temp.	0 ~ 40°C
Power Type	12VDC, 1A
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	915.05 ~ 917.9 MHz
Channel Number	58
Type of modulation	FHSS
Antenna Type	Dipole Antenna
Antenna Gain	1.95 dBi

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	915.05 MHz	02	915.10 MHz	03	915.15 MHz
04	915.20 MHz	05	915.25 MHz	06	915.30 MHz
07	915.35 MHz	08	915.40 MHz	09	915.45 MHz
10	915.50 MHz	11	915.55 MHz	12	915.60 MHz
13	915.65 MHz	14	915.70 MHz	15	915.75 MHz
16	915.80 MHz	17	915.85 MHz	18	915.90 MHz
19	915.95 MHz	20	916.00 MHz	21	916.05 MHz
22	916.10 MHz	23	916.15 MHz	24	916.20 MHz
25	916.25 MHz	26	916.30 MHz	27	916.35 MHz
28	916.40 MHz	29	916.45 MHz	30	916.50 MHz
31	916.55 MHz	32	916.60 MHz	33	916.65 MHz
34	916.70 MHz	35	916.75 MHz	36	916.80 MHz
37	916.85 MHz	38	916.90 MHz	39	916.95 MHz
40	917.00 MHz	41	917.05 MHz	42	917.10 MHz
43	917.15 MHz	44	917.20 MHz	45	917.25 MHz
46	917.30 MHz	47	917.35 MHz	48	917.40 MHz
49	917.45 MHz	50	917.50 MHz	51	917.55 MHz
52	917.60 MHz	53	917.65 MHz	54	917.70 MHz
55	917.75 MHz	56	917.80 MHz	57	917.85 MHz
58	917.90 MHz	--	--	--	--

Note: The CH01/CH29/CH58 were selected as Low/Mid/High test channels in this report.

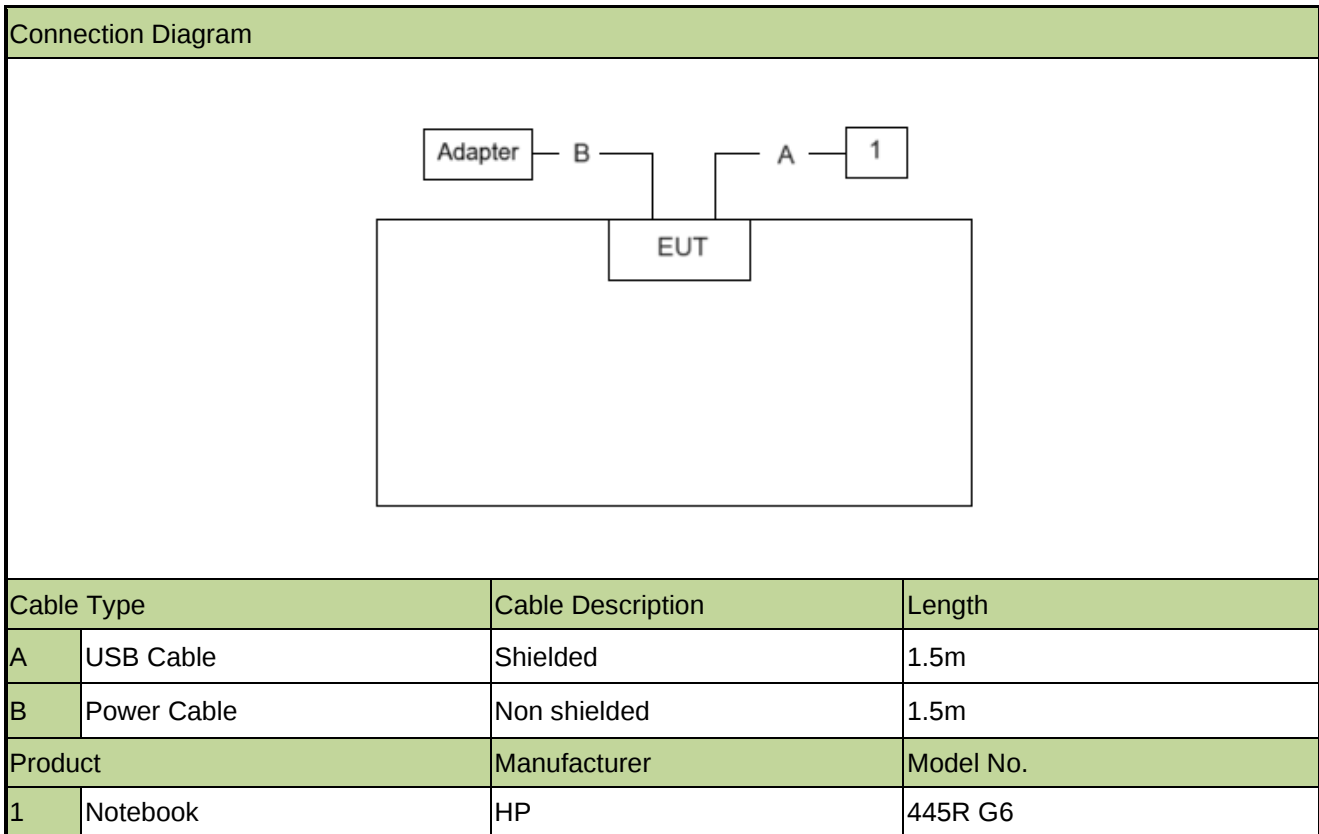
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at CH01 (915.05MHz)
Mode 2: Transmit at CH29 (916.45MHz)
Mode 3: Transmit at CH58 (917.90MHz)
Mode 4: Transmit at frequency hopping mode

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test Software

The test utility software used during testing was “sscom5.13.1.exe”, and the version was 5.13.1.

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 D01v05r02
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirement

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 thread of the antenna connector is reversed.

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	2025-12-05	SIP-AC1
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2025-12-20	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2025-05-08	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2025-06-12	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2025-10-16	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2025-07-05	SIP-AC1
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07075	1 year	2025-11-19	SIP-AC1
Preamplifier	MRT	AMP-AC1	MRTSUE11265	1 year	2025-11-02	SIP-AC1
Cable	HUBER+SUHNER	SF106	MRTSUE06594	1 year	2025-12-20	SIP-AC1
Cable	HUBER+SUHNER	SF106	MRTSUE06874	1 year	2025-12-20	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06601	1 year	2025-11-01	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2025-09-05	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2025-10-29	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2025-10-20	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2025-12-20	SIP-AC2
Cable	HUBER+SUHNER	SF106	MRTSUE06522	1 year	2025-05-07	SIP-AC2
Cable	HUBER+SUHNER	SF106	MRTSUE06875	1 year	2025-12-20	SIP-AC2
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2025-06-21	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2025-10-16	SIP-TR1
Attenuator	MVE	MVE2213	MRTSUE11102	1 year	2025-06-06	SIP-TR1
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2025-05-08	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2025-05-08	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2025-10-13	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2025-10-29	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
Controller_MF 7802BS	1.02	RE Antenna & Turntable

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 $k = 2$.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.4dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.7%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(1)	20dB Bandwidth	Conducted	Pass
15.247(b)(2)	Peak Transmitter Output Power		Pass
15.247(a)(1)	Channel Separation		Pass
15.247(a)(1)(i)	Number of Channels		Pass
15.247(a)(1)(i)	Time of Occupancy		Pass
15.247(d)	Band Edge / Out- of-Band Emissions		Pass
15.205, 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Note: The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

6.2. 20dB Bandwidth Measurement

6.2.1. Test Limit

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

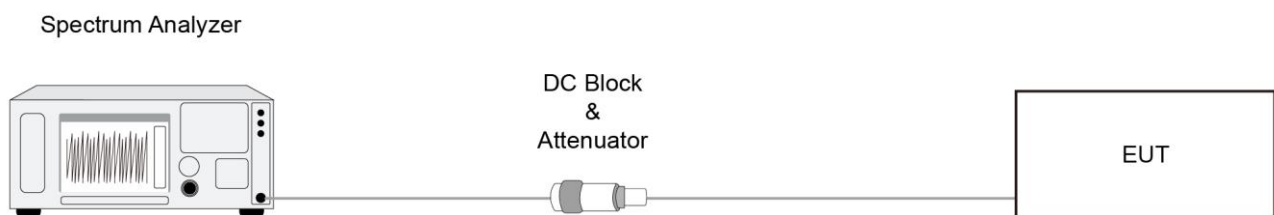
6.2.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.2 (20dB Bandwidth)

6.2.3. Test Setting

1. Set RBW = 1% to 5% of the 20dB bandwidth
2. VBW = approximately three times RBW
3. Span = approximately 2 to 5 times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

6.3.2. Test Procedure

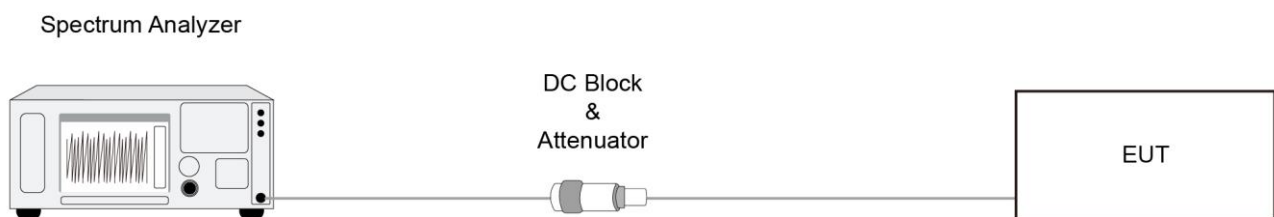
ANSI C63.10-2013 - Section 7.8.5

6.3.3. Test Setting

1. Set RBW $\geq$ the 20 dB bandwidth of the emission being measured.
2. VBW $\geq$ RBW
3. Span = approximately five times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize, Use the marker-to-peak function to set the marker to the peak of the emission.

The indicated level is the peak output power (don't forget added the external attenuation and cable loss)

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Carrier Frequency Separation Measurement

6.4.1. Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

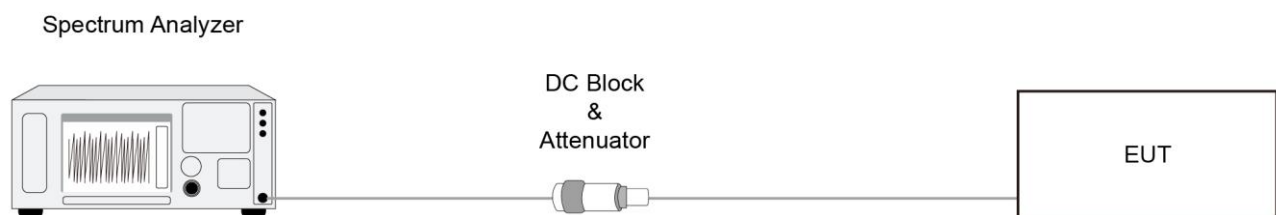
6.4.2. Test Procedure

ANSI C63.10-2013 - Section 7.8.2.

6.4.3. Test Setting

1. Span = wide enough to capture the peaks of two adjacent channels.
2. Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. $VBW \geq RBW$
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allowed the trace to stabilize
8. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Number of Hopping Channels Measurement

6.5.1. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

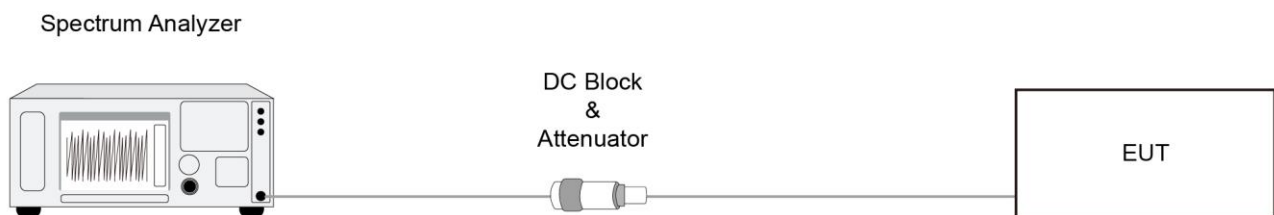
6.5.2. Test Procedure

ANSI C63.10-2013 - Section 7.8.3.

6.5.3. Test Setting

1. Span = the frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW $\geq$ RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allow the trace to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Time of Occupancy Measurement

6.6.1. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

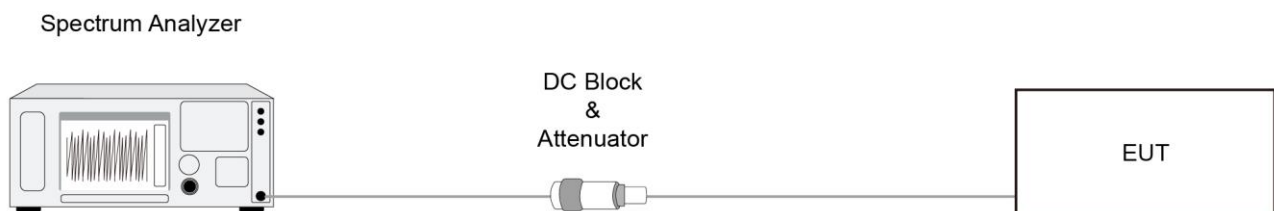
6.6.2. Test Procedure

ANSI C63.10-2013 - Section 7.8.4.

6.6.3. Test Setting

1. Span = zero span, centered on a hopping channel.
2. RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
3. VBW $\geq$ RBW
4. Sweep time = as necessary to capture the entire dwell time per hopping channel
5. Detector = Peak
6. Trace mode = max hold
7. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

6.6.4. Test Setup



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Band-edge Compliance Measurement

6.7.1. Test Limit

The maximum permissible emission level is 20dBc. Any emissions were lying outside of the emission bandwidth and in authorized band edges to a field strength limit specified in Section 15.209 of the Title 47 CFR.

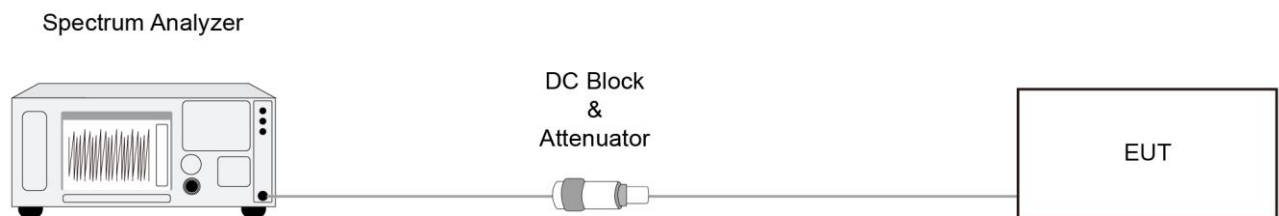
6.7.2. Test Procedure

ANSI C63.10-2013 - Section 6.10.4.

6.7.3. Test Setting

1. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Conducted Spurious Emissions Measurement

6.8.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

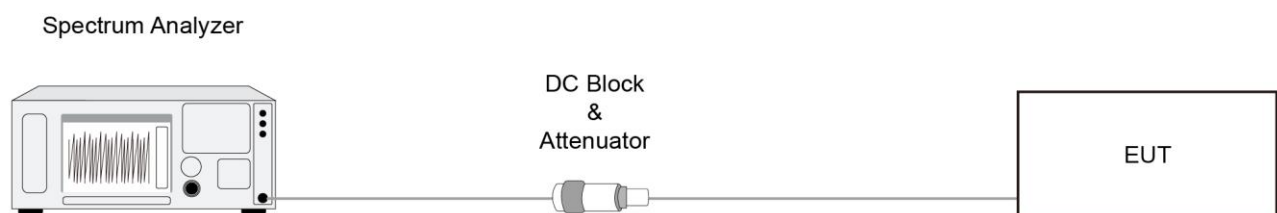
6.8.2. Test Procedure

ANSI C63.10-2013 - Section 7.8.8.

6.8.3. Test Setting

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

6.8.4. Test Setup



6.8.5. Test Result

Refer to Appendix A.8.

6.9. Radiated Spurious Emission Measurement

6.9.1. 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 [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

6.9.2. Test Procedure

ANSI C63.10 Section 6.3 (General Requirements)

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

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

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

6.9.3. 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 1GHz

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

Peak Measurements above 1GHz

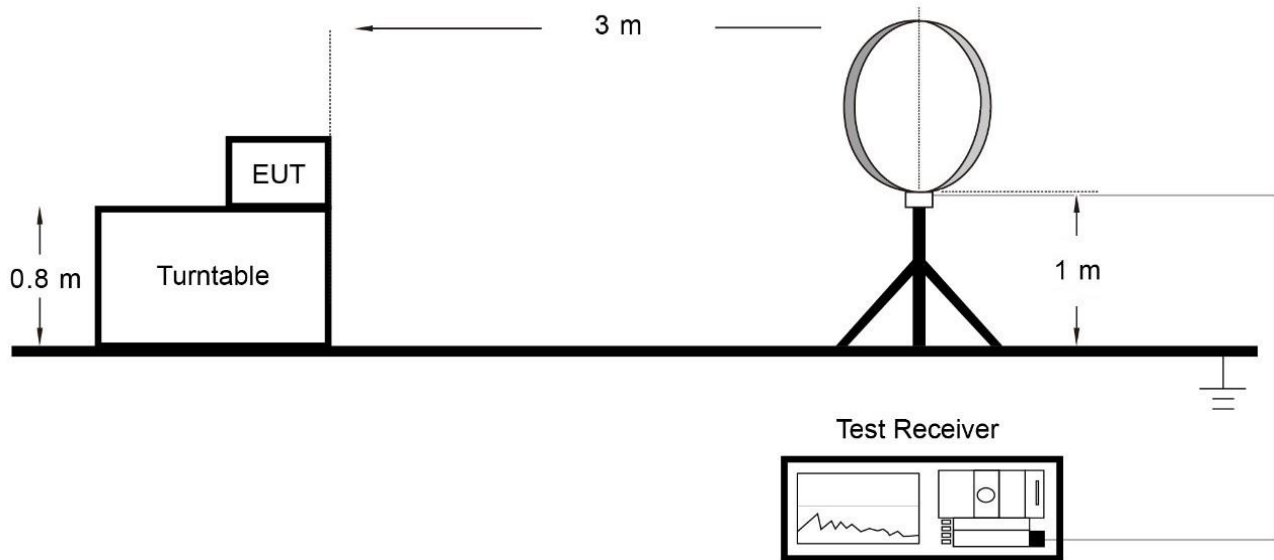
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

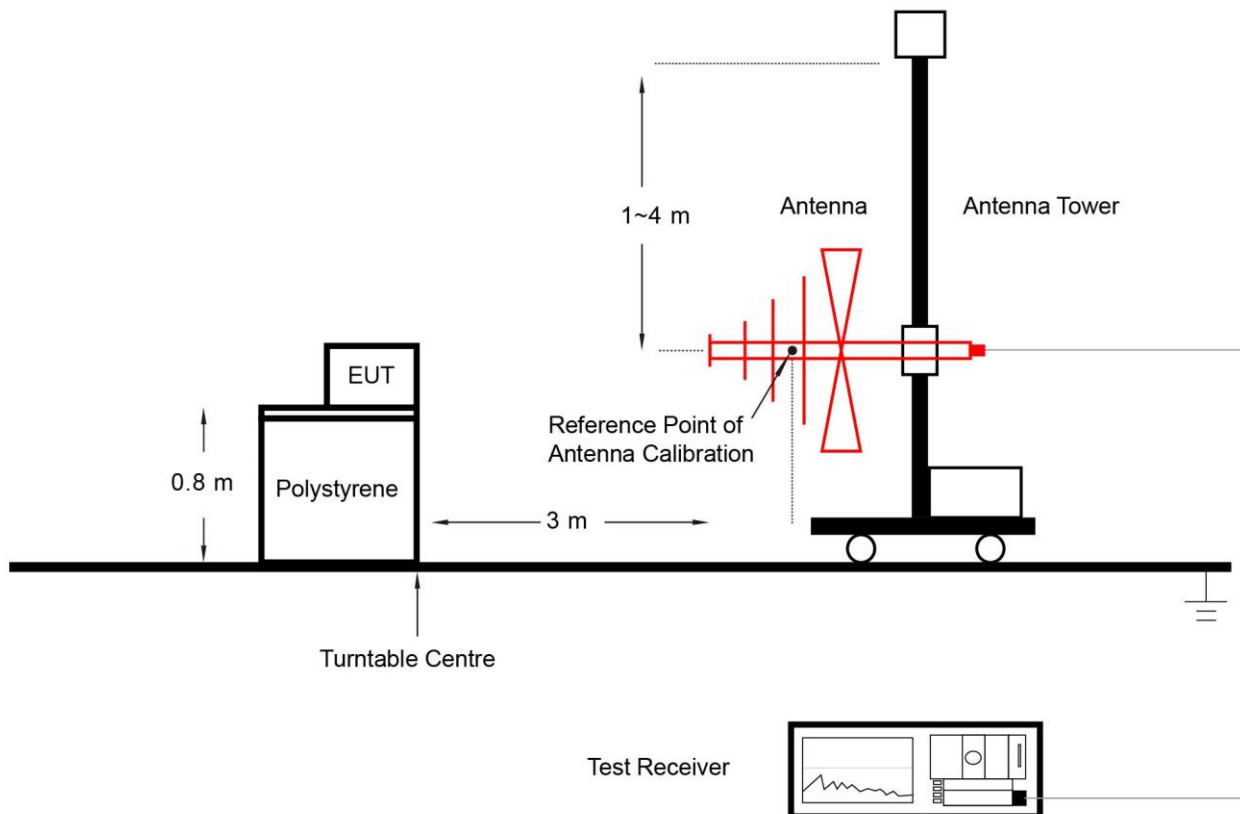
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.9.4. Test Setup

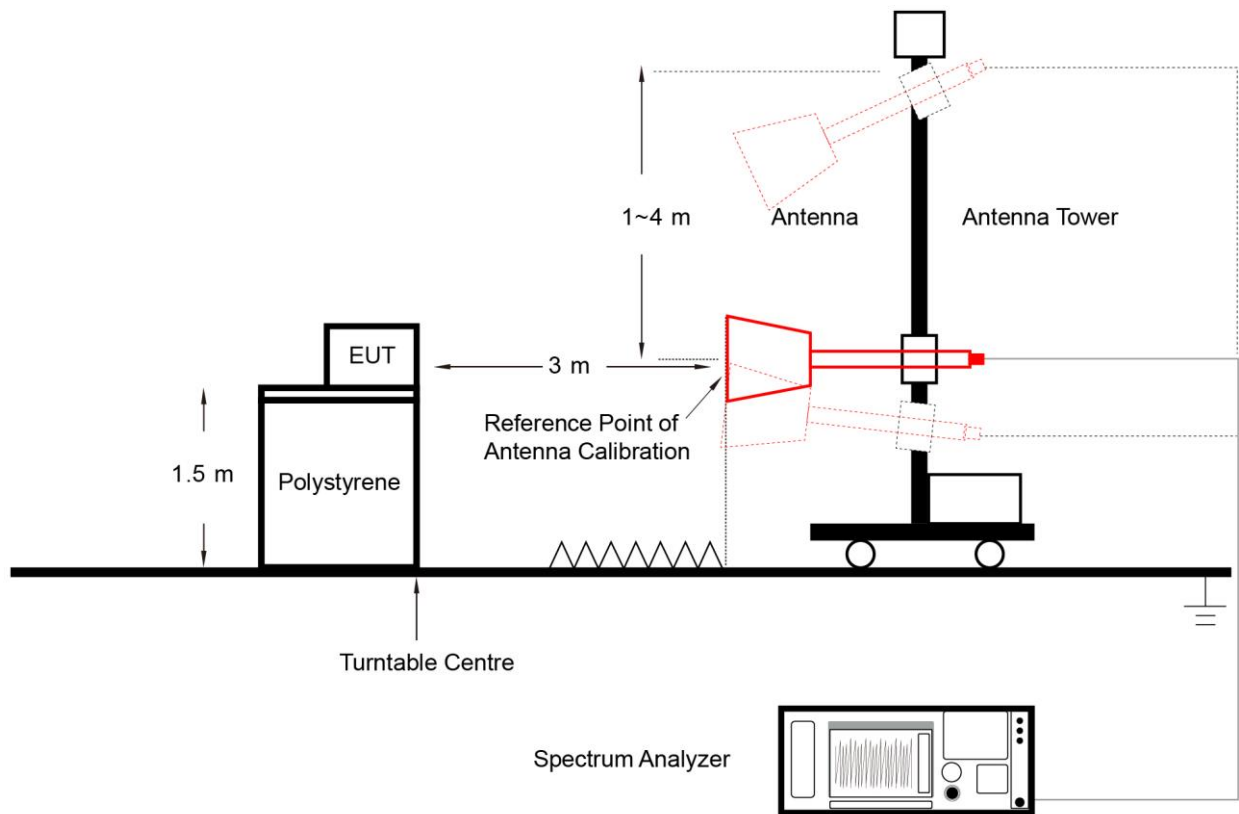
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.9.5. Test Result

Refer to Appendix A.9.

6.10. Radiated Restricted Band Edge Measurement

6.10.1. 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 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

6.10.2. Test Procedure

ANSI C63.10 Section 6.3 (General Requirements)

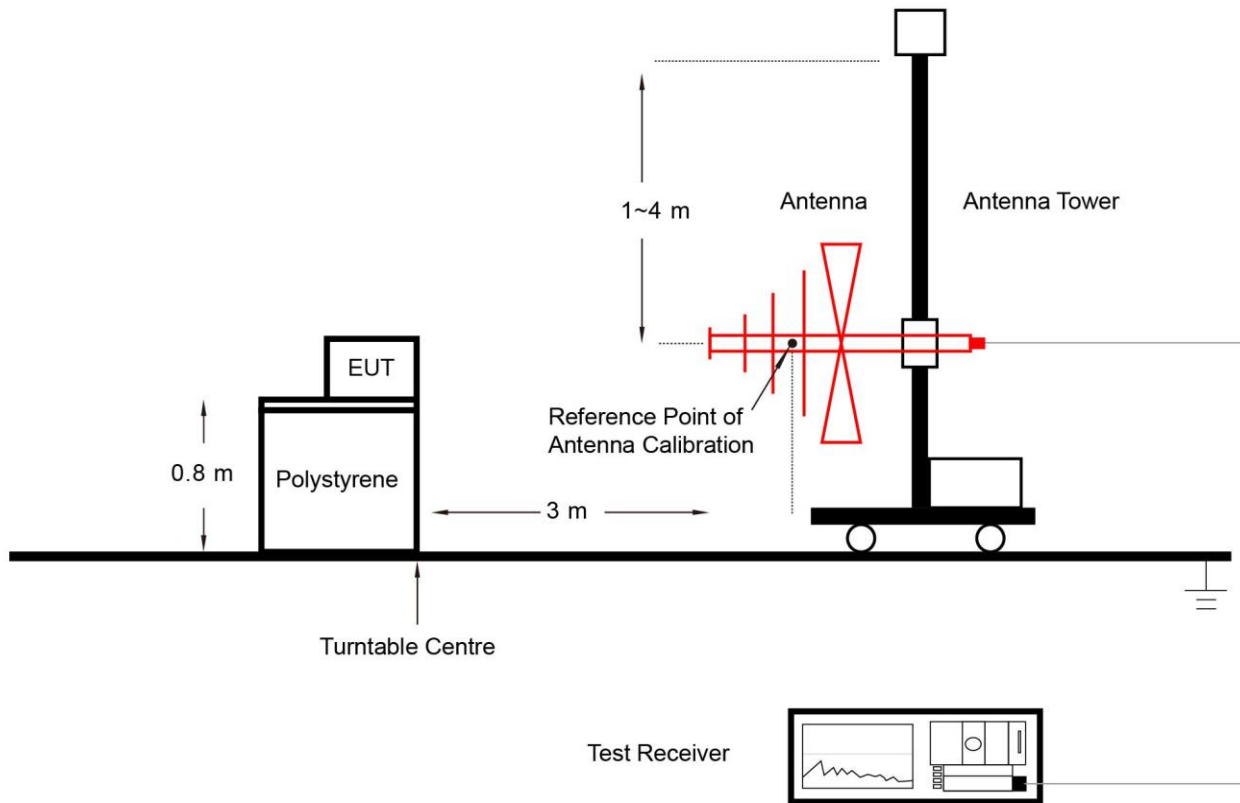
ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

6.10.3. Test Setting

Quasi-Peak Measurements below 1GHz

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

6.10.4. Test Setup



6.10.5. Test Result

Refer to Appendix A.10.

6.11. AC Conducted Emissions Measurement

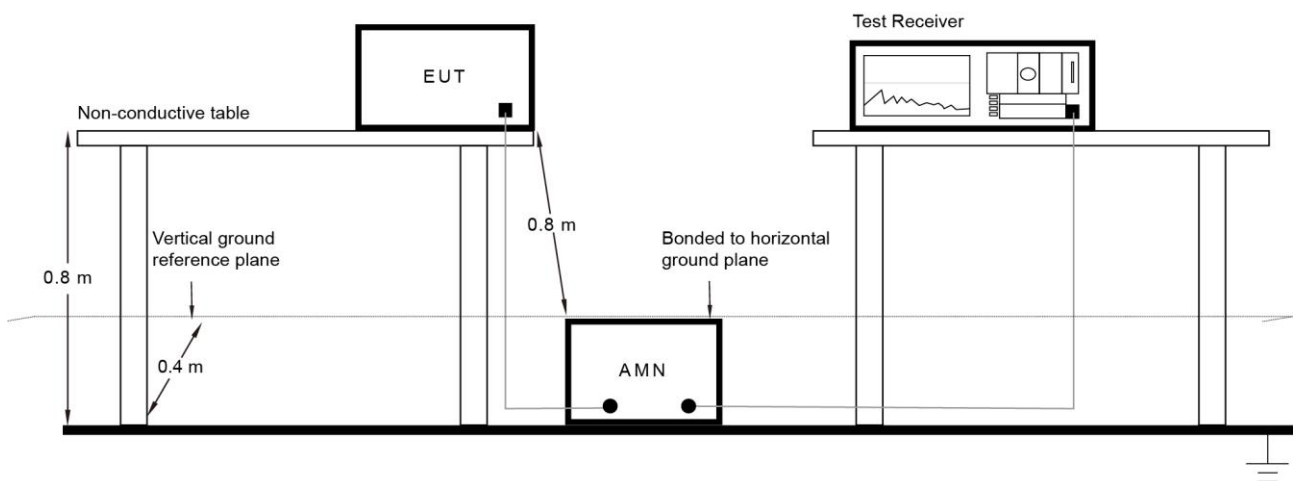
6.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

6.11.2. Test Setup



6.11.3. Test Result

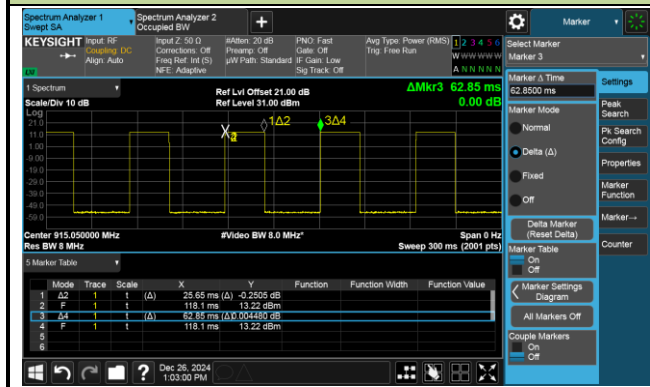
Refer to Appendix A.11.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-26		

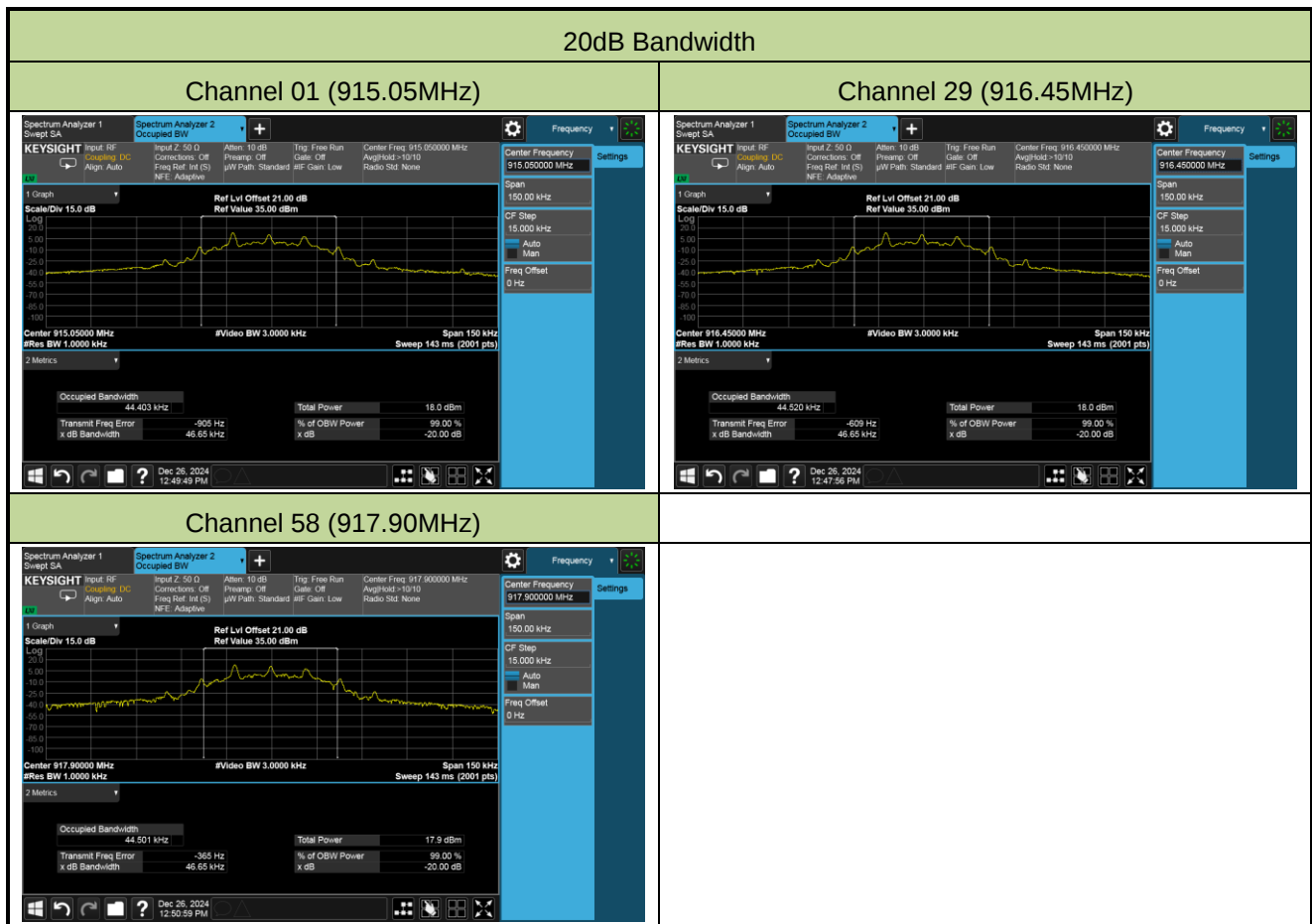
Test Mode	Duty Cycle
CH01 (915.05MHz)	40.81%
Duty Cycle (T = Transmission Duration)	
CH01 (T = 25.65ms)	



A.2 20dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-26		

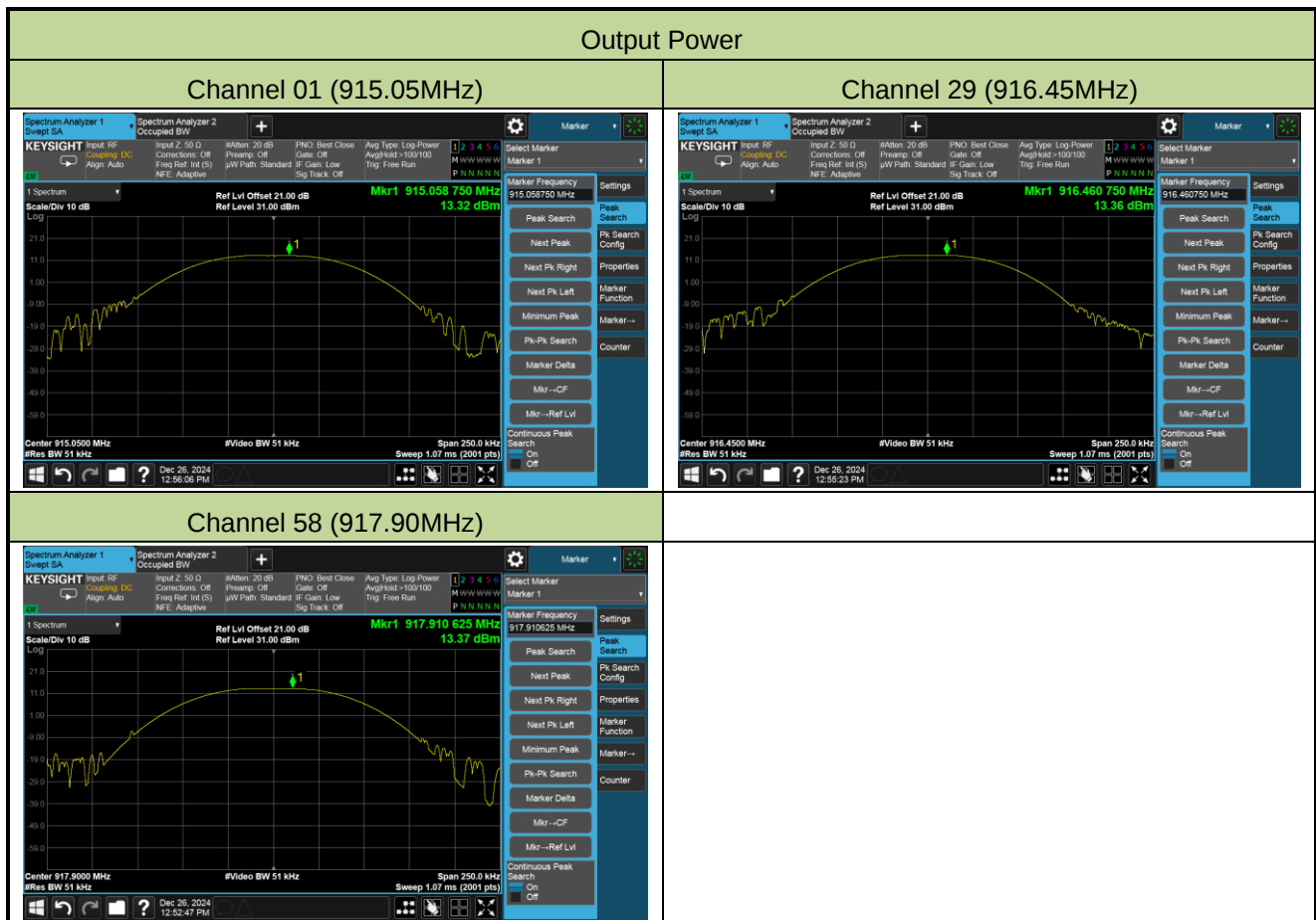
Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)
01	915.05	46.65	≤ 500
29	916.45	46.65	≤ 500
58	917.90	46.65	≤ 500



A.3 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-26		

Channel No.	Frequency (MHz)	Output Power (dBm)	Power Limit (dBm)
01	915.05	13.32	≤ 30.00
29	916.45	13.36	≤ 30.00
58	917.90	13.37	≤ 30.00

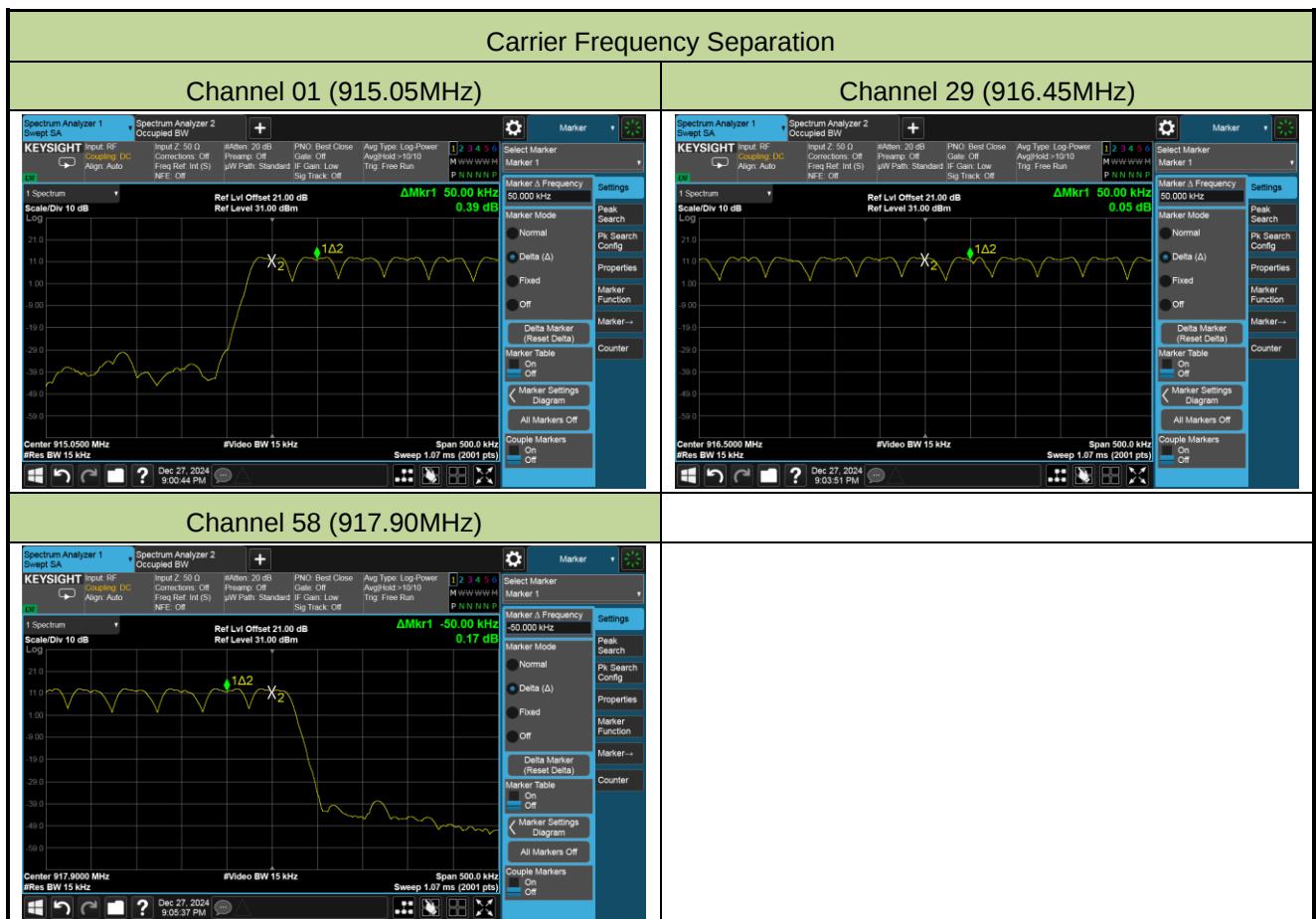


A.4 Carrier Frequency Separation Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-27		

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
01	915.05	50	≥ 46.65	Pass
29	916.45	50	≥ 46.65	Pass
58	917.90	50	≥ 46.65	Pass

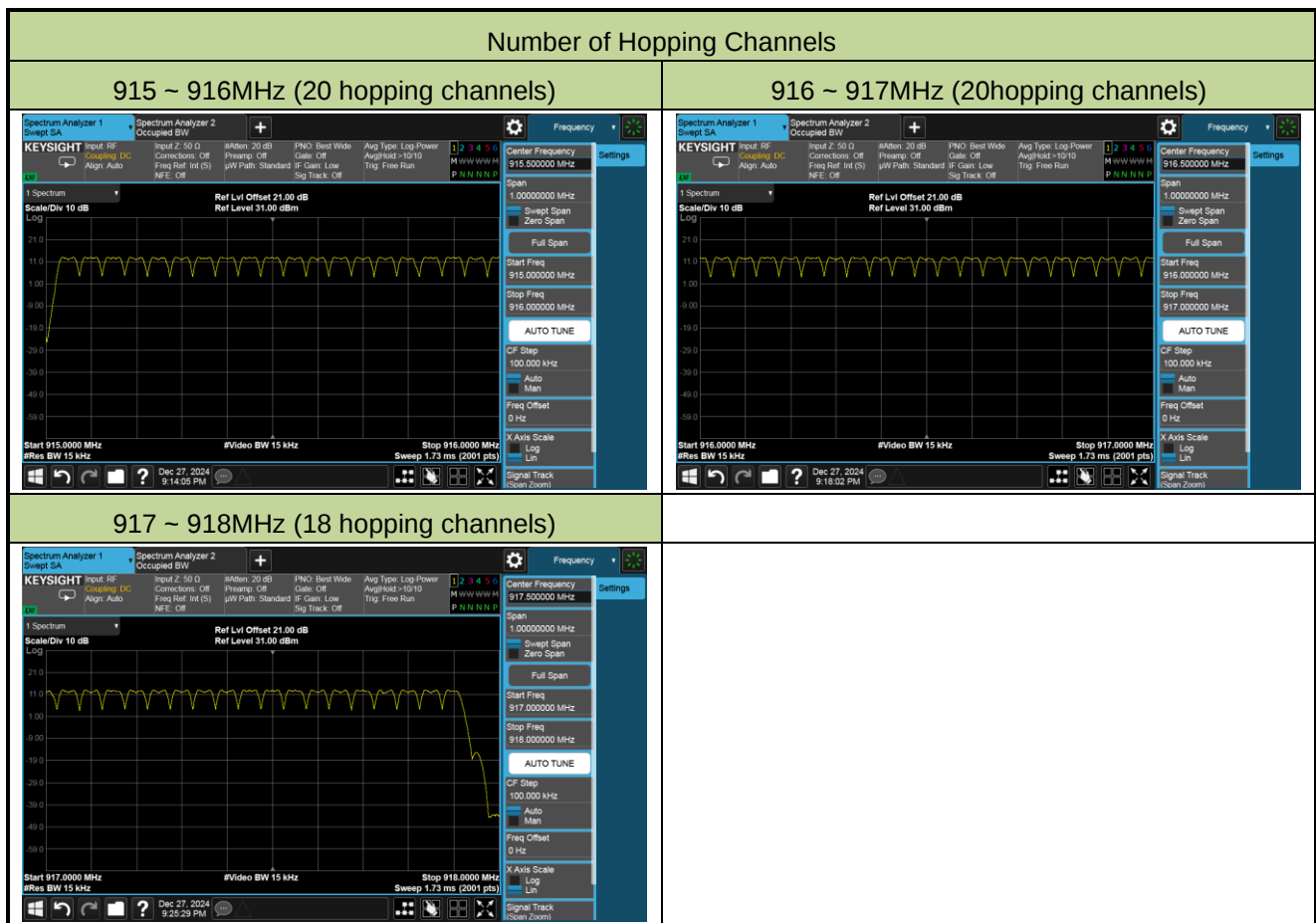
Note: The Limit is the value of the 20dB BW.



A.5 Number of Hopping Channels Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-27		

Channel Numbers	Frequency (MHz)	Limit (Hopping Channels)	Result
58	915.05~917.90	≥ 50	Pass

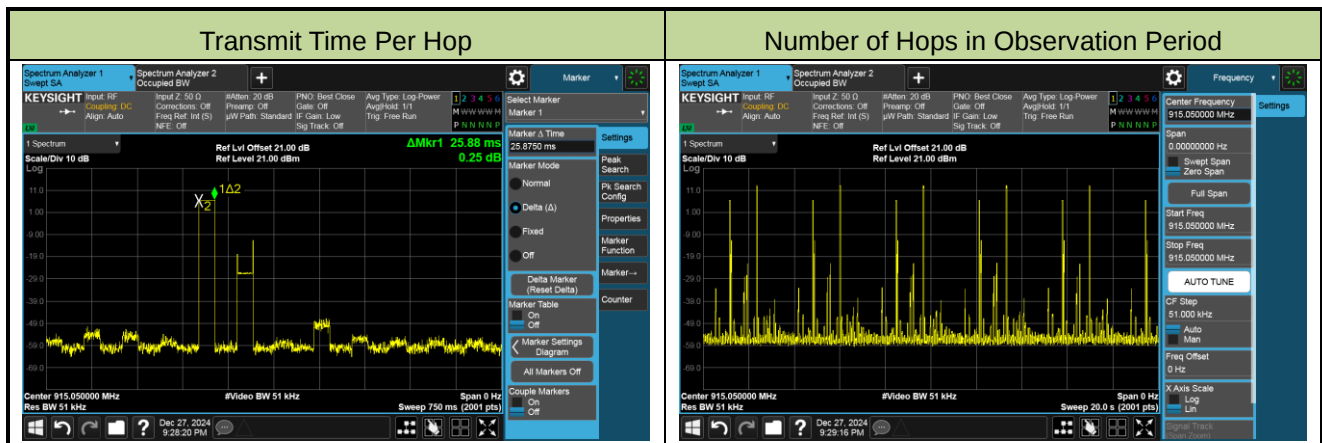


A.6 Time of Occupancy Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-27		

Channel No.	Frequency (MHz)	Transmit Time Per Hop (ms)	Observation Period (s)	Number of Hops in Observation Period	Time of Occupancy (ms)	Limit (ms)	Result
01 ~ 58	915.05~917.90	25.88	20	5	129.40	≤ 400	Pass

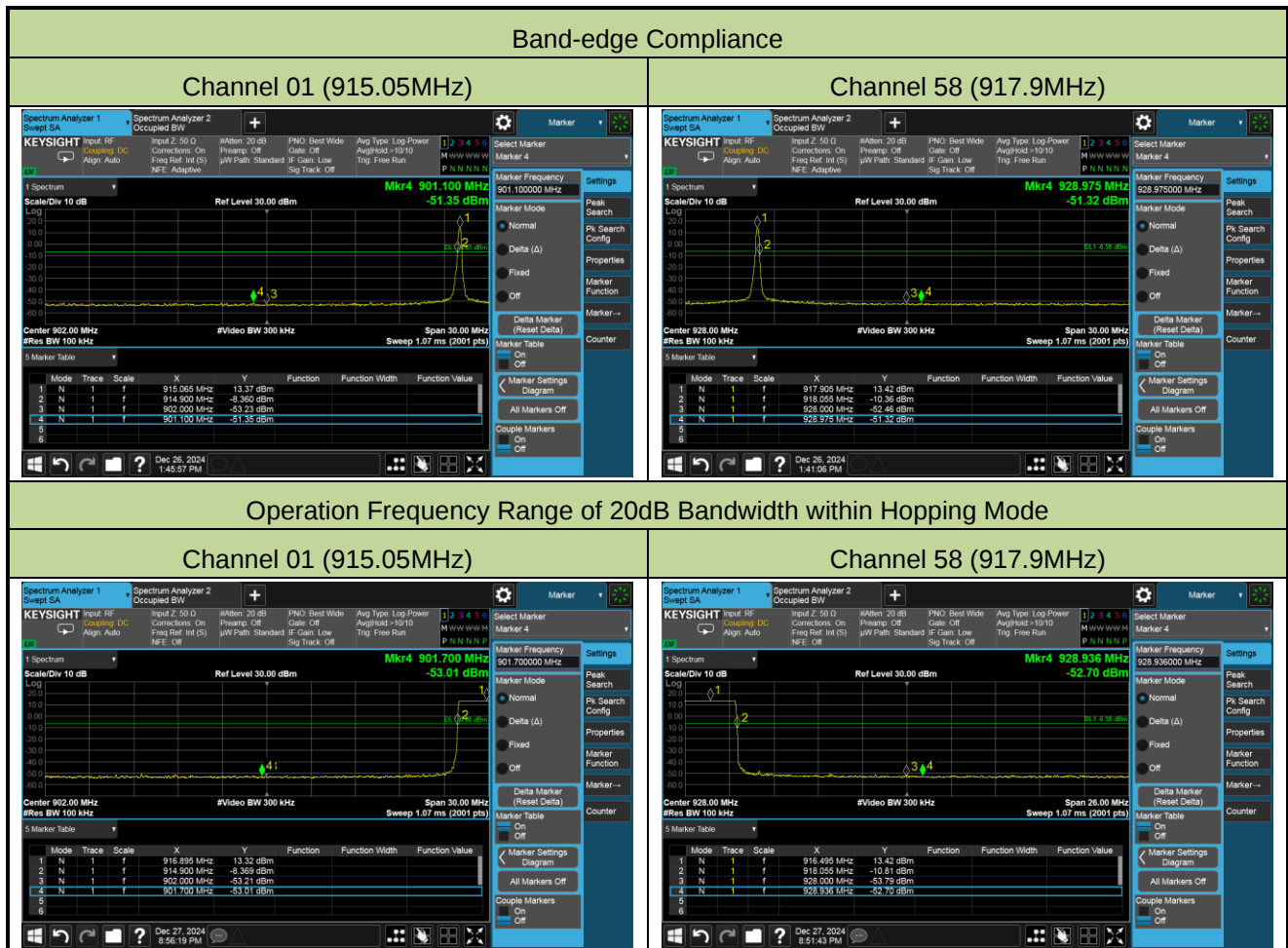
Note: Time of Occupancy (ms) = Transmit Time Per Hop (ms) * Number of Hops in Observation Period



A.7 Band-edge Compliance Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-26 ~ 2024-12-27		

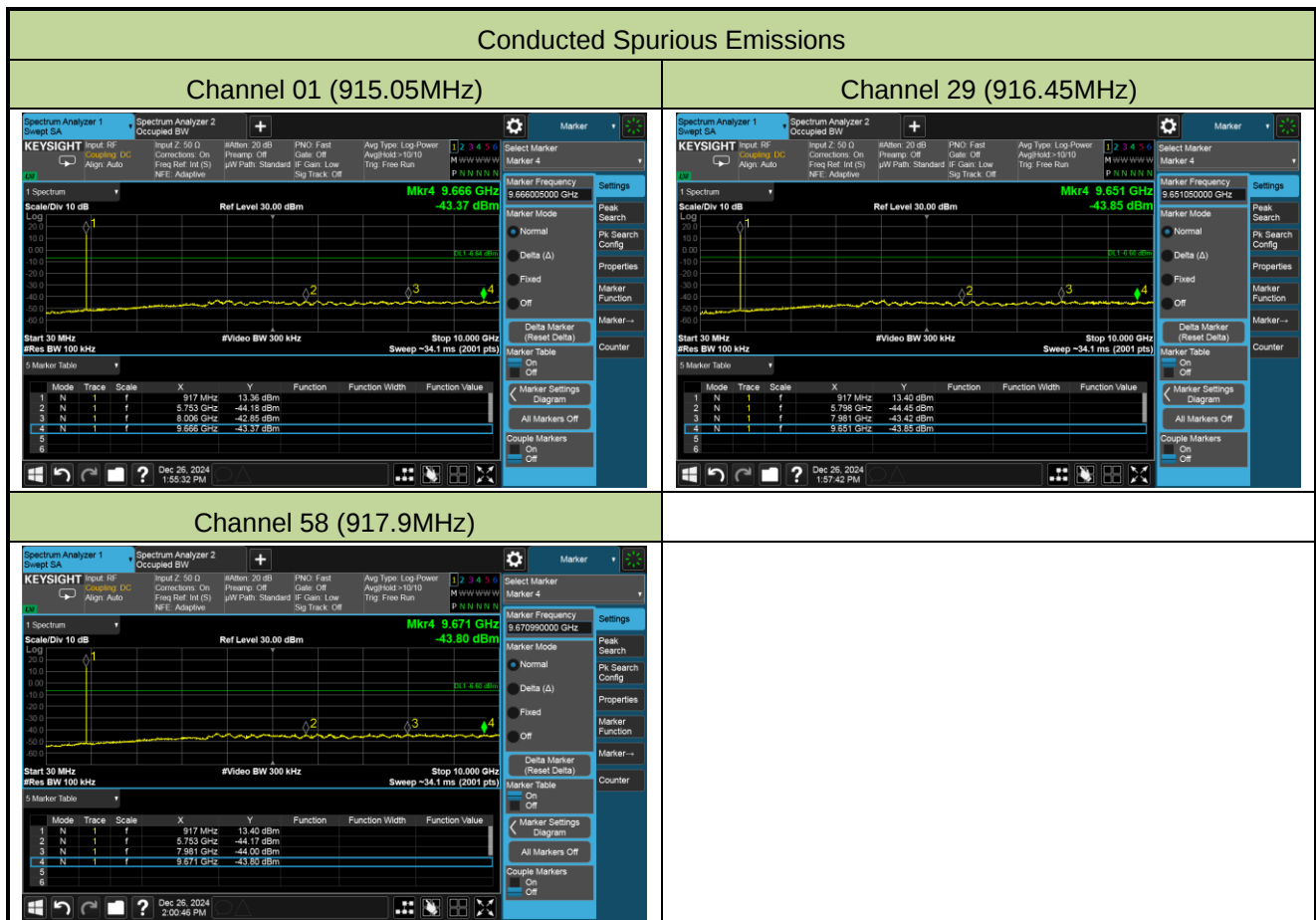
Channel No.	Frequency (MHz)	Limit	Result
01	915.05	20dBc	Pass
58	917.90	20dBc	Pass



A.8 Conducted Spurious Emissions Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2024-12-26		

Channel No.	Frequency (MHz)	Limit (MHz)	Result
01	915.05	20dBc	Pass
29	916.45	20dBc	Pass
58	917.90	20dBc	Pass



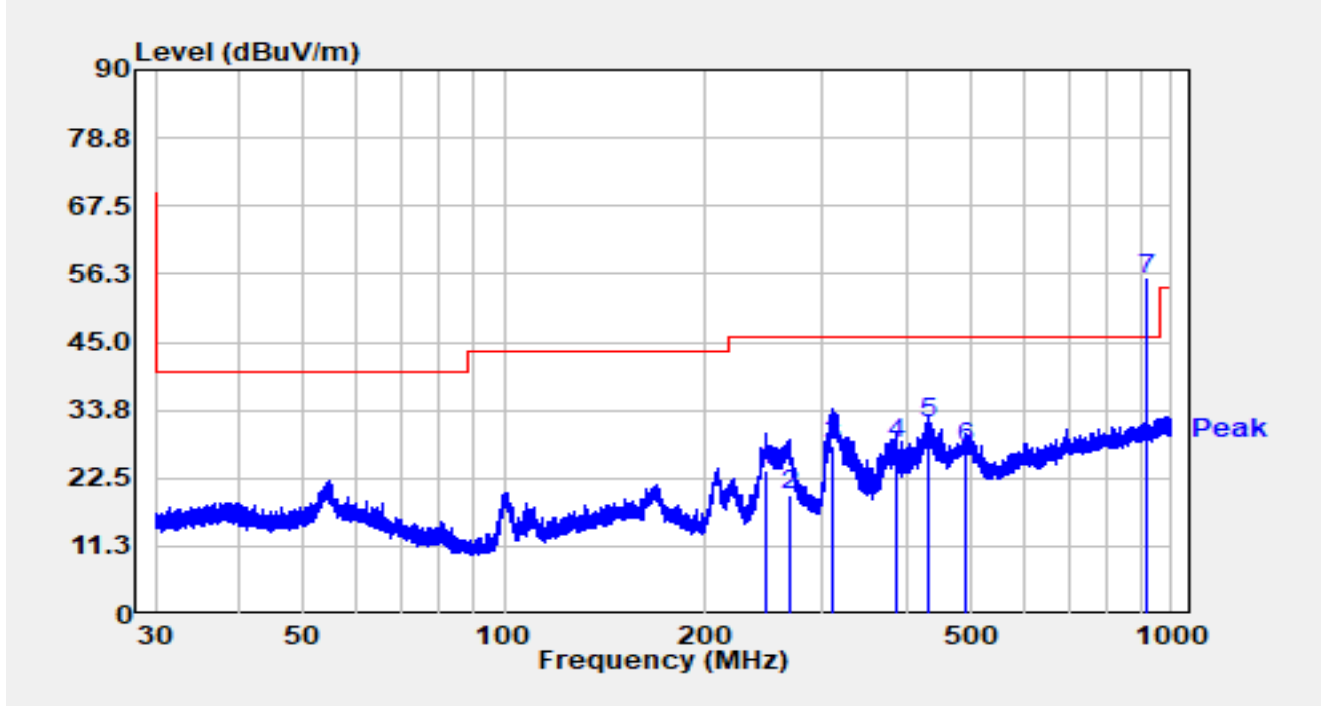
A.9 Radiated Spurious Emission Test Result

Test Site	SIP-AC2	Test Engineer	Mero Zhou
Test Date	2024-12-27		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-10GHz, 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
01	4744.9	46.1	-5.3	40.8	74.0	-33.2	Peak	Horizontal
	7870.6	42.9	1.5	44.4	68.2	-23.8	Peak	Horizontal
	8971.3	42.7	3.6	46.3	68.2	-21.9	Peak	Horizontal
	7521.4	43.0	0.8	43.8	74.0	-30.2	Peak	Vertical
	8475.4	43.4	2.3	45.7	74.0	-28.3	Peak	Vertical
	9766.0	42.7	4.0	46.7	68.2	-21.5	Peak	Vertical
29	8043.4	42.7	2.2	44.9	74.0	-29.1	Peak	Horizontal
	8645.5	42.2	3.2	45.4	68.2	-22.8	Peak	Horizontal
	9964.0	42.6	4.4	47.0	68.2	-21.2	Peak	Horizontal
	7521.4	43.0	0.8	43.8	74.0	-30.2	Peak	Vertical
	8610.4	42.7	2.8	45.5	68.2	-22.7	Peak	Vertical
	9379.9	41.8	4.3	46.1	74.0	-27.9	Peak	Vertical
58	7454.8	43.5	0.7	44.2	74.0	-29.8	Peak	Horizontal
	8802.1	43.0	3.7	46.7	68.2	-21.5	Peak	Horizontal
	9773.2	42.3	4.1	46.4	68.2	-21.8	Peak	Horizontal
	7453.9	43.2	0.7	43.9	74.0	-30.1	Peak	Vertical
	8814.7	42.9	3.4	46.3	68.2	-21.9	Peak	Vertical
	9618.4	42.5	3.8	46.3	68.2	-21.9	Peak	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)								

The Result of Radiated Emission below 1GHz:

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.8°C	Humidity	56.4%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Horizontal
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		

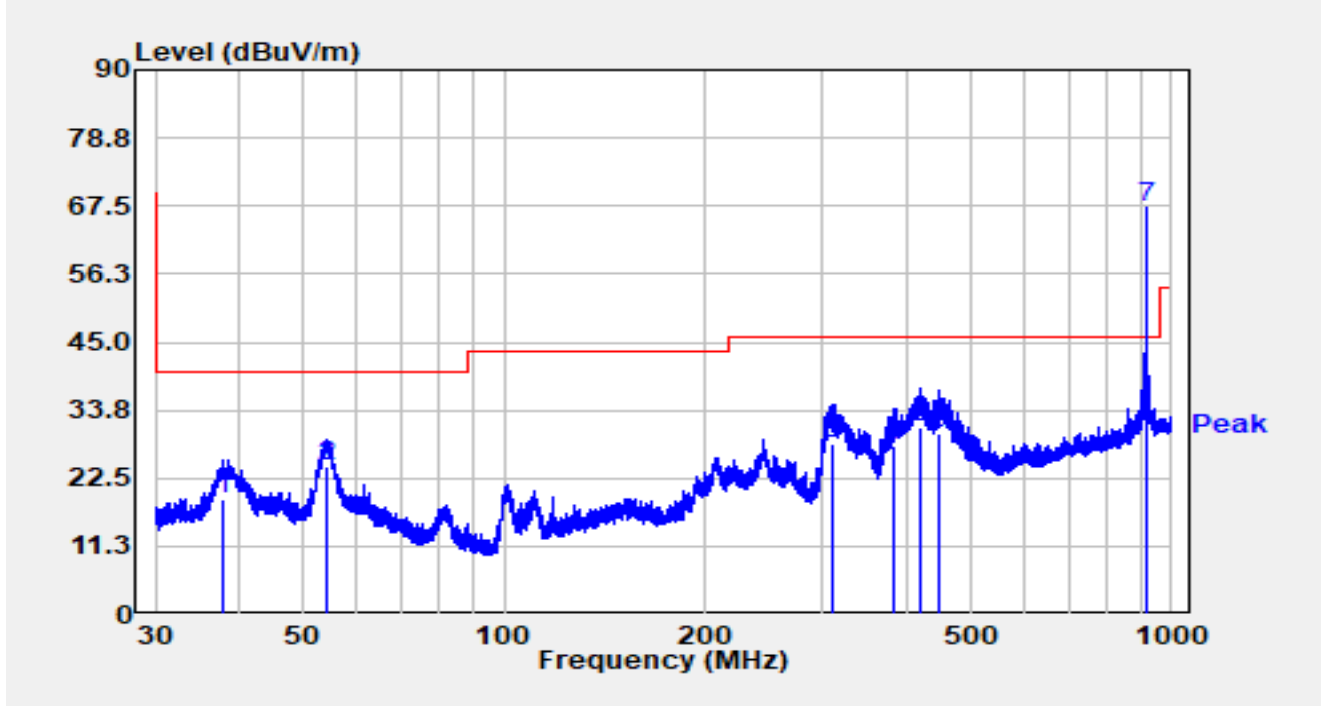


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		247.075	7.20	16.43	23.63	-22.37	46.00	QP
2		267.171	2.60	17.21	19.81	-26.19	46.00	QP
3		309.346	8.90	18.79	27.69	-18.31	46.00	QP
4		386.769	7.60	20.51	28.11	-17.89	46.00	QP
5	*	431.637	9.70	21.79	31.49	-14.51	46.00	QP
6		493.160	4.80	22.80	27.60	-18.40	46.00	QP
7		915.106	25.94	29.43	55.37	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
4. The points (7) is SRD fundamental frequency that is not evaluated in this standard.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.8°C	Humidity	56.4%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Vertical
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		



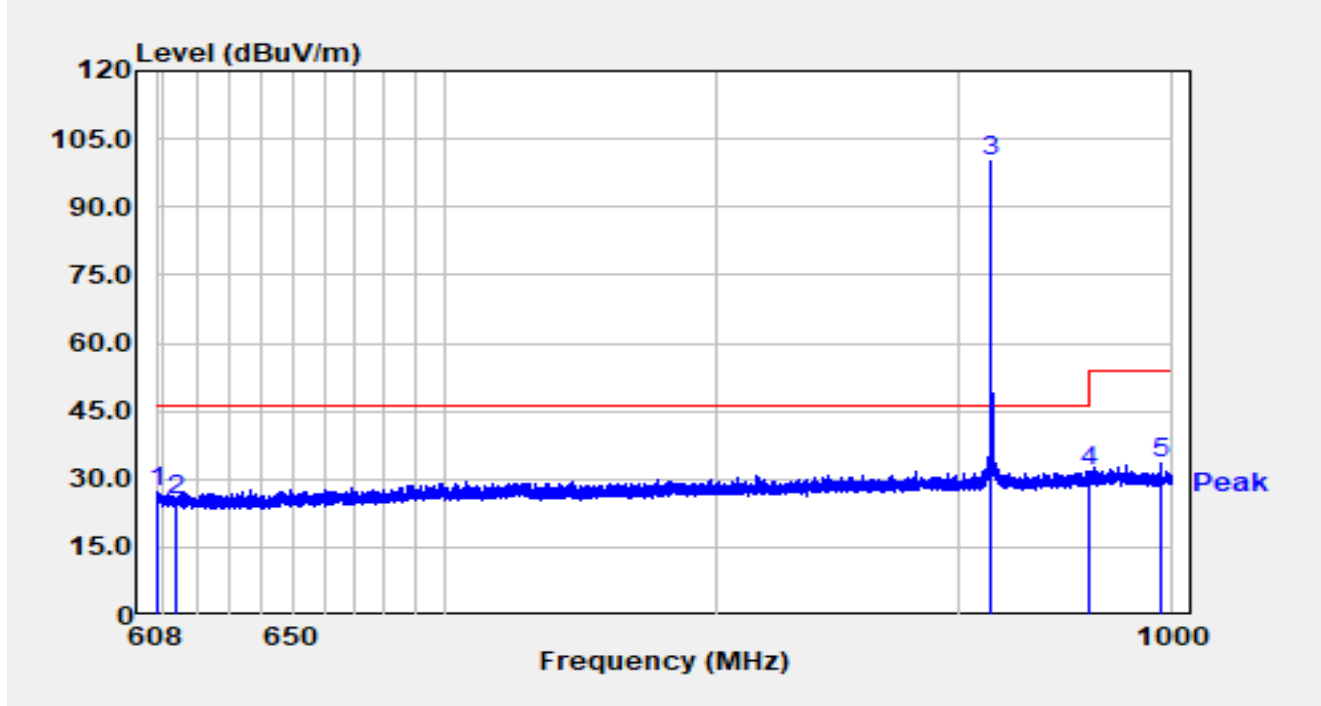
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		37.958	1.50	17.44	18.94	-21.06	40.00	QP
2		54.071	6.10	18.33	24.43	-15.57	40.00	QP
3		309.346	9.40	18.79	28.19	-17.81	46.00	QP
4		384.606	7.50	20.49	27.99	-18.01	46.00	QP
5	*	421.614	9.60	21.21	30.81	-15.19	46.00	QP
6		448.454	7.40	22.43	29.83	-16.17	46.00	QP
7		915.106	37.88	29.43	67.31	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
4. The points (7) is SRD fundamental frequency that is not evaluated in this standard.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.10 Radiated Restricted Band Edge Test Result

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Horizontal
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		

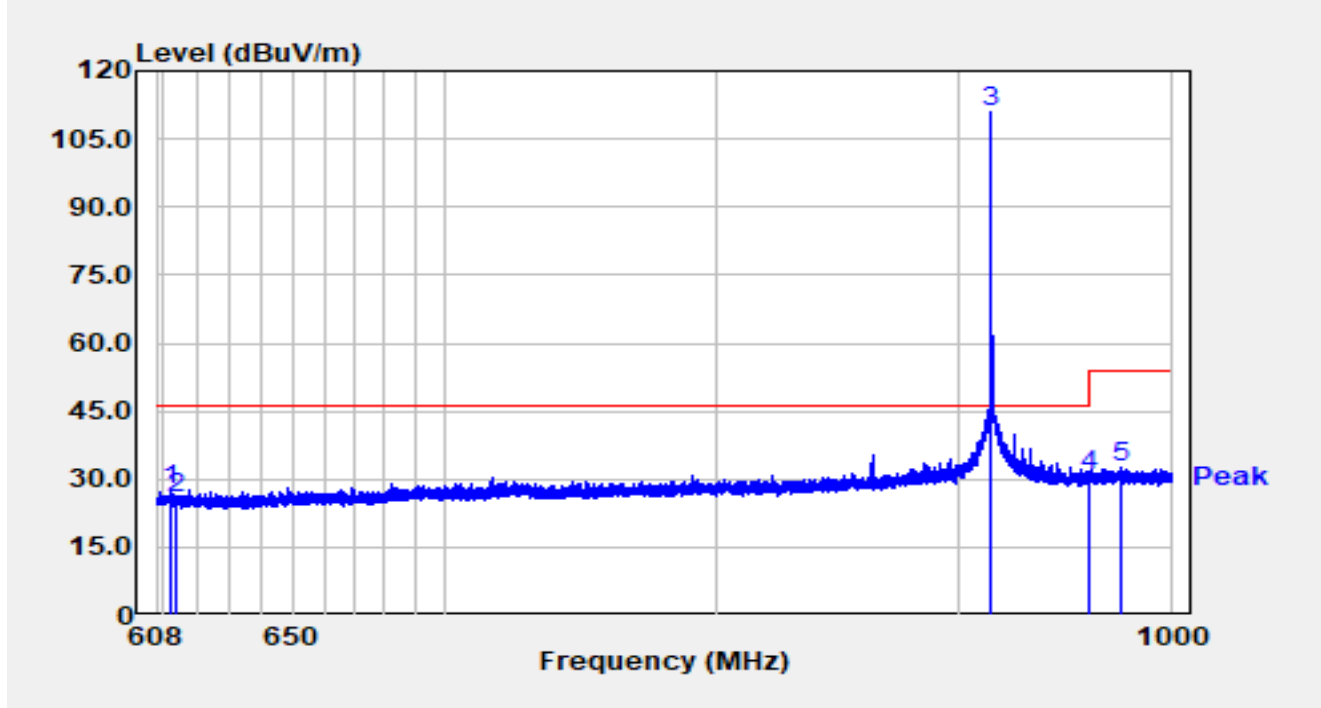


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		608.151	0.94	26.02	26.95	-19.05	46.00	Peak
2		614.000	-0.43	25.80	25.37	-20.63	46.00	Peak
3		915.058	70.59	29.43	100.02	N/A	N/A	Peak
4	*	960.000	1.28	30.26	31.55	-14.45	46.00	Peak
5		994.591	3.30	30.00	33.30	-20.70	54.00	Peak

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Vertical
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		

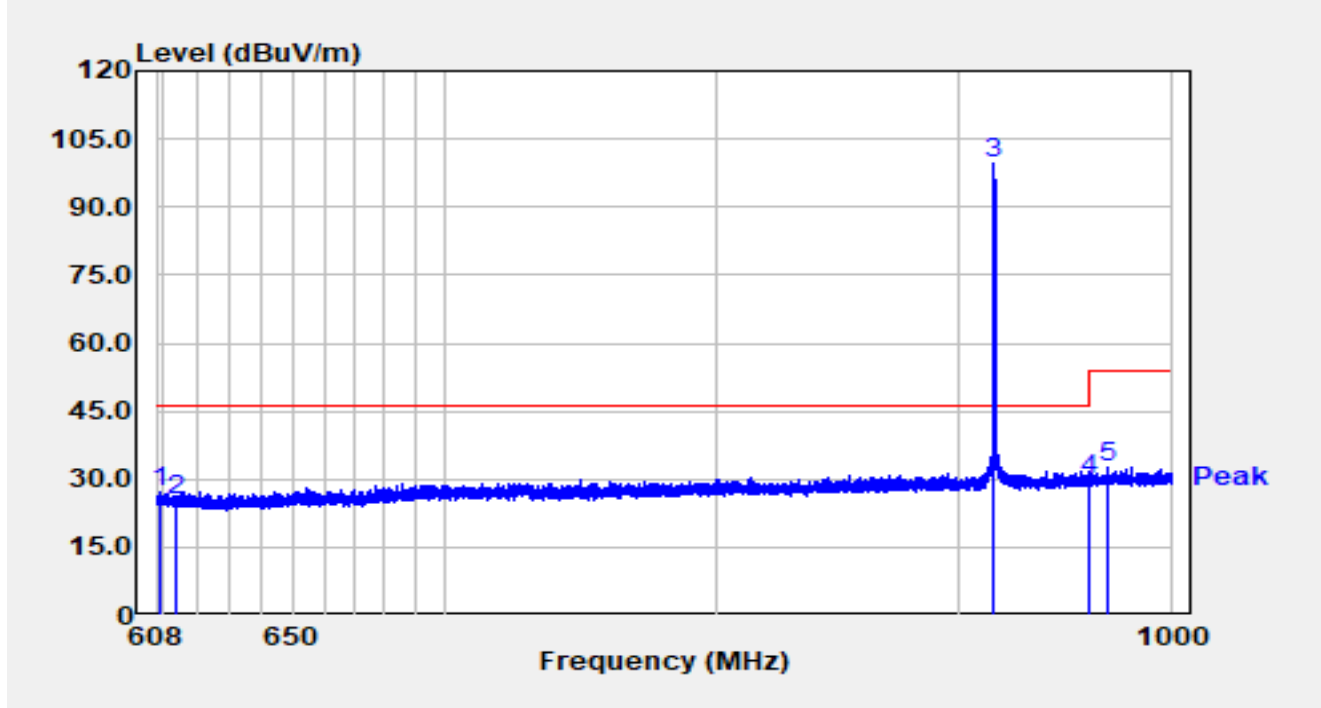


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		611.976	1.86	25.94	27.81	-18.19	46.00	Peak
2		614.000	0.03	25.80	25.83	-20.17	46.00	Peak
3		915.058	81.68	29.43	111.11	N/A	N/A	Peak
4	*	960.000	0.59	30.26	30.85	-15.15	46.00	Peak
5		974.991	1.94	30.47	32.41	-21.59	54.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Horizontal
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 916.45MHz		

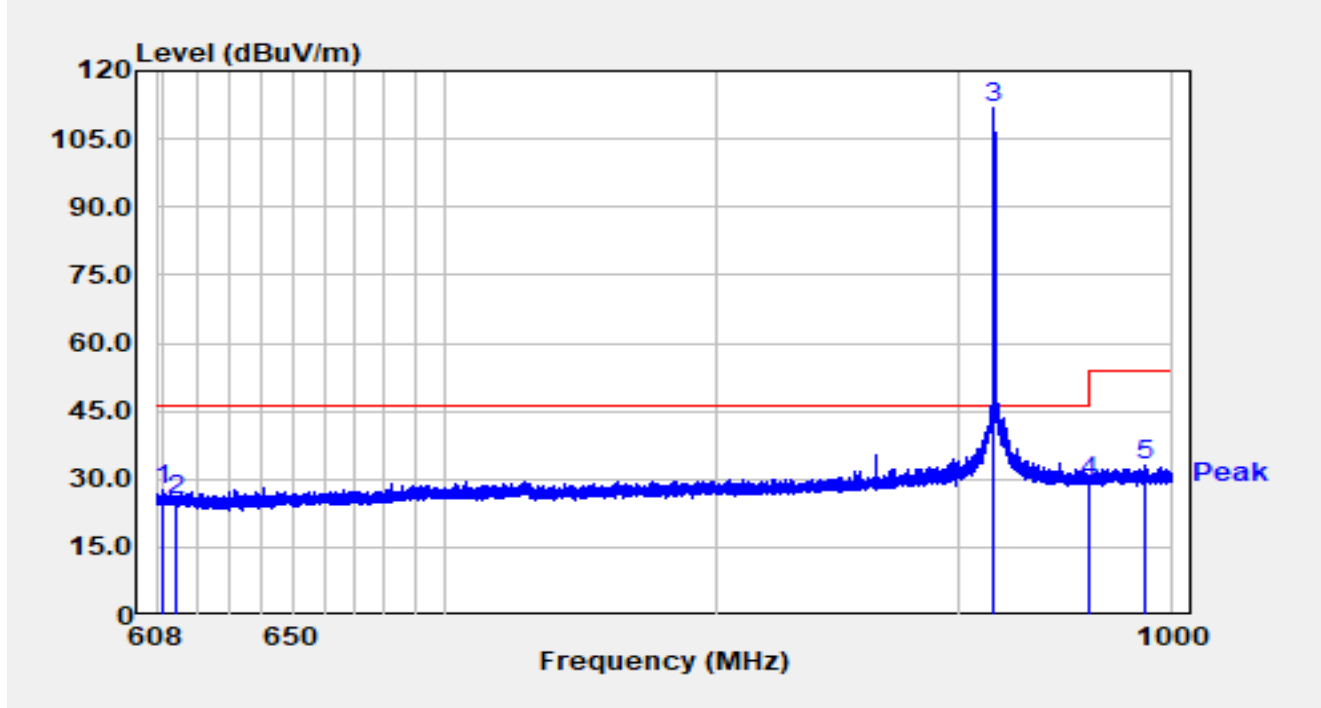


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		608.969	1.04	26.02	27.05	-18.95	46.00	Peak
2		614.000	-0.66	25.80	25.14	-20.86	46.00	Peak
3		916.470	70.04	29.54	99.58	N/A	N/A	Peak
4	*	960.000	-0.26	30.26	30.00	-16.00	46.00	Peak
5		968.946	2.06	30.53	32.59	-21.41	54.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Vertical
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 916.45MHz		

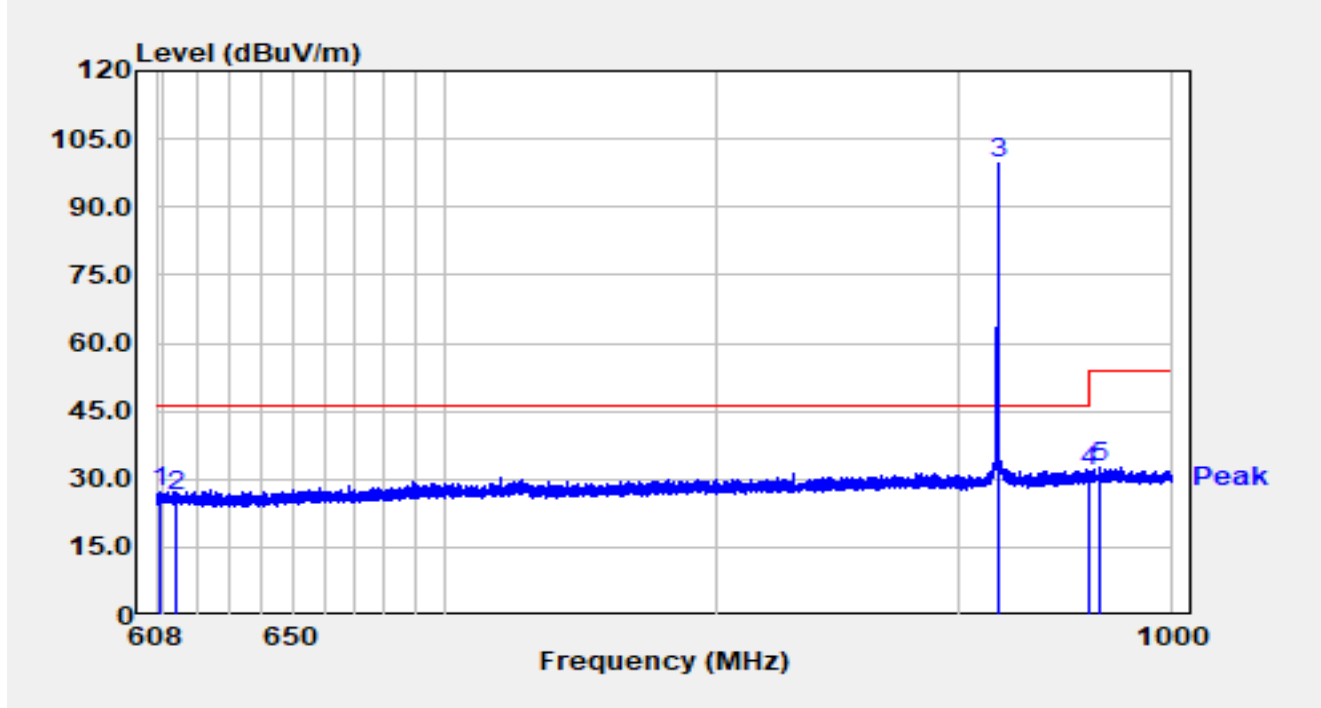


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		610.182	1.76	25.98	27.75	-18.25	46.00	Peak
2		614.000	-0.56	25.80	25.24	-20.76	46.00	Peak
3		916.470	82.17	29.54	111.70	N/A	N/A	Peak
4	*	960.000	-0.92	30.26	29.34	-16.66	46.00	Peak
5		986.410	2.72	30.11	32.83	-21.17	54.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Horizontal
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 917.9MHz		

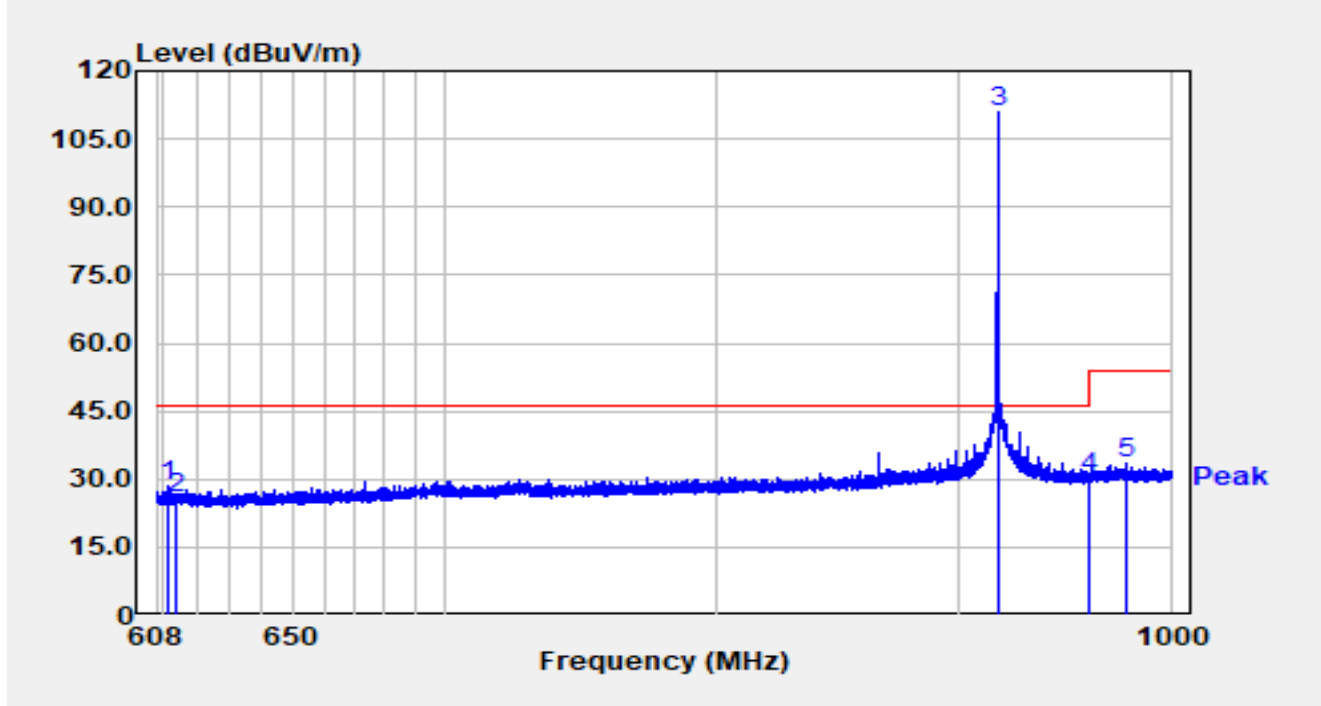


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		608.727	1.25	26.02	27.27	-18.73	46.00	Peak
2		614.000	0.34	25.80	26.14	-19.86	46.00	Peak
3		917.885	70.21	29.48	99.69	N/A	N/A	Peak
4	*	960.000	1.29	30.26	31.55	-14.45	46.00	Peak
5		965.048	2.09	30.38	32.47	-21.53	54.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	SIP-AC1	Test Date	2024-12-25
Temperature	20.9°C	Humidity	46.5%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Mero Zhou
Factor	VULB 9168_00998_25-2000MHz	Polarity	Vertical
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 917.9MHz		



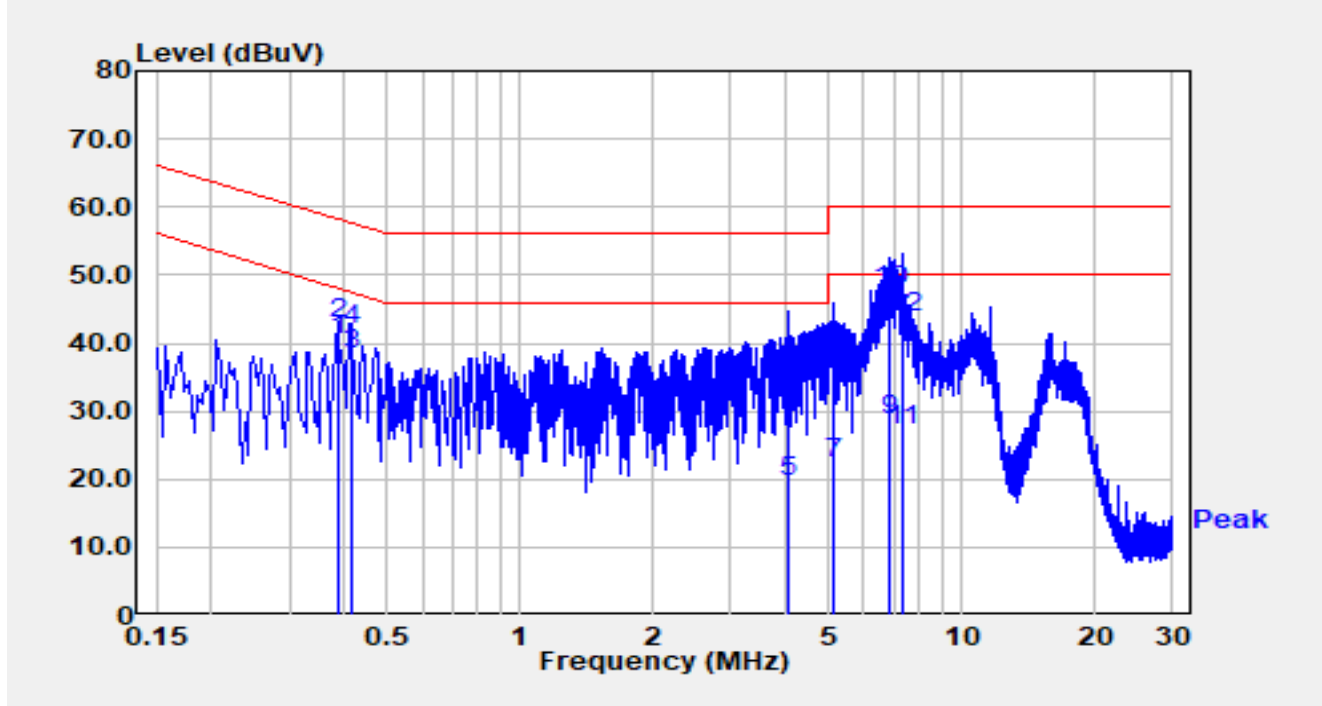
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		611.580	2.42	25.94	28.36	-17.64	46.00	Peak
2		614.000	0.20	25.80	26.00	-20.00	46.00	Peak
3		917.885	81.56	29.48	111.04	N/A	N/A	Peak
4	*	960.000	0.20	30.26	30.46	-15.54	46.00	Peak
5		977.906	3.05	30.40	33.45	-20.55	54.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

A.11 AC Conducted Emissions Test Result

Site	SIP-SR2	Test Date	2024-12-26
Temperature	20.2°C	Humidity	33.1%
Limit	FCC Part15C_CE_ Mains	Test Engineer	Henry Wang
Factor	SIP-SR2-ENV216_101684_Fitter off	Polarity	Line
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		

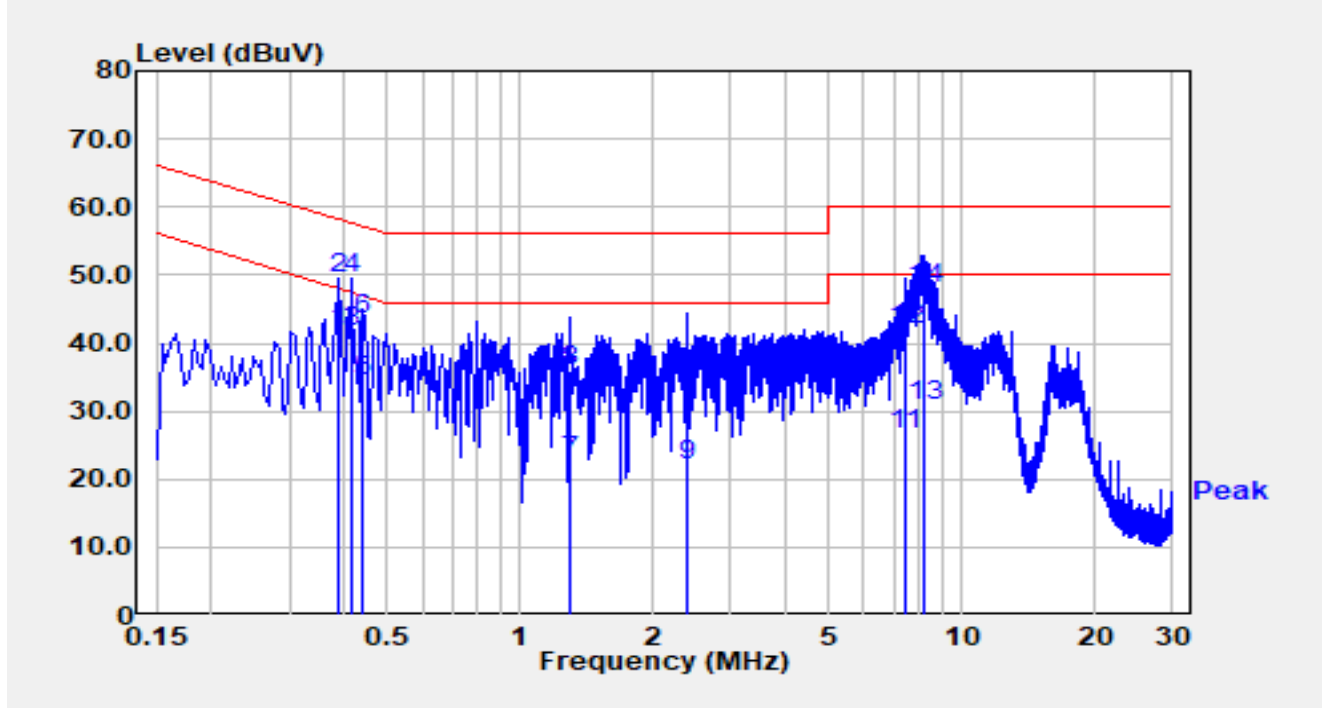


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1	*	0.386	30.53	9.79	40.31	-7.84	48.15	Average
2		0.386	33.07	9.79	42.86	-15.29	58.15	QP
3		0.414	28.67	9.79	38.46	-9.11	47.57	Average
4		0.414	32.17	9.79	41.96	-15.61	57.57	QP
5		4.038	9.70	9.89	19.59	-26.41	46.00	Average
6		4.038	25.39	9.89	35.28	-20.72	56.00	QP
7		5.130	12.49	9.93	22.42	-27.58	50.00	Average
8		5.130	28.61	9.93	38.54	-21.46	60.00	QP
9		6.902	18.86	9.97	28.83	-21.17	50.00	Average
10		6.902	37.77	9.97	47.74	-12.26	60.00	QP
11		7.305	17.12	9.98	27.09	-22.91	50.00	Average
12		7.305	33.95	9.98	43.92	-16.08	60.00	QP

Notes:

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

Site	SIP-SR2	Test Date	2024-12-26
Temperature	20.2°C	Humidity	33.1%
Limit	FCC Part15C_CE_ Mains	Test Engineer	Henry Wang
Factor	SIP-SR2-ENV216_101684_Fitter off	Polarity	Neutral
EUT	Antenna	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by SRD at 915.05MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.386	31.91	9.74	41.65	-6.50	48.15	Average
2		0.386	39.76	9.74	49.50	-8.65	58.15	QP
3	*	0.414	31.91	9.74	41.65	-5.92	47.57	Average
4		0.414	39.87	9.74	49.61	-7.96	57.57	QP
5		0.438	24.58	9.74	34.32	-12.78	47.10	Average
6		0.438	33.82	9.74	43.56	-13.54	57.10	QP
7		1.289	12.76	9.75	22.51	-23.49	46.00	Average
8		1.289	26.13	9.75	35.88	-20.12	56.00	QP
9		2.385	12.35	9.81	22.17	-23.83	46.00	Average
10		2.385	25.91	9.81	35.72	-20.28	56.00	QP
11		7.462	16.52	9.93	26.46	-23.54	50.00	Average
12		7.462	31.98	9.93	41.92	-18.08	60.00	QP
13		8.170	20.68	9.98	30.66	-19.34	50.00	Average

14		8.170	37.98	9.98	47.96	-12.04	60.00	QP
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Notes:

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

Appendix B - Test Setup Photograph

Refer to “2411RSU004-UT” file.

Appendix C - EUT Photograph

Refer to “ 2411RSU004-UE” file.

_____ The End _____