

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-262-RWD-078
Reception No. : 2510003507
Applicant : Remote Solution Co., Ltd.
Address : 92, Chogokri, Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea
Manufacturer : Remote Solution Co., Ltd.
Address : 326-14, Apo-daero, Nam-myeon, Gimcheon-si, Gyeongsangbuk-do, 39662, South Korea
Type of Equipment : Josh Edge Base
FCC ID. : TX4-EE48
Model Name : EE48
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 84 pages (including this page)
Date of Incoming : November 03, 2025
Date of issue : February 27, 2026

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART E Section 15.407**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



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※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-262-RWD-078	February 27, 2026	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : Remote Solution Co., Ltd.
 Address : 92, Chogokri, Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea
 Contact Person : jikwon / Pro
 Telephone No. : +82-31-390-1592
 FCC ID : TX4-EE48
 Model Name : EE48
 Brand Name : -
 Serial Number : N/A

EQUIPMENT CLASS	Unlicensed National Information infrastructure(UNII)
E.U.T. DESCRIPTION	Modular Transmitter, Josh Edge Base
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART E Section 15.407 789033 D02 General UNII Test Procedures New Rules v02r01
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.407(a)	26 dB Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	Met the Limit / PASS
15.407(a)	Peak Power Spectral Density	Met the Limit / PASS
15.407(e)	6 dB Bandwidth	Met the Limit / PASS
15.407(g)	Frequency Stability	Met the Limit / PASS
15.407(b)	Undesirable Emissions	Met the Limit / PASS
15.205, 15.407(b)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Met the Limit / PASS
15.207	AC Conducted Emissions 150 kHz-30 MHz	Met the Limit / PASS
15.407(h)	Dynamic frequency Selection	Met the Limit / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART E Section 15.407

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The Remote Solution Co., Ltd., Model EE48 (referred to as the EUT in this report) is a Josh Edge Base. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Josh Edge Base	
Temperature Range	0 °C ~ 50 °C	
OPERATING FREQUENCY	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	WLAN 2.4 GHz	2 412 MHz ~ 2 462 MHz (802.11b/g/n(HT20))
	WLAN 5 150 MHz ~ 5 250 MHz Band	5 180 MHz ~ 5 240 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 250 MHz ~ 5 350 MHz Band	5 260 MHz ~ 5 320 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 470 MHz ~ 5 725 MHz Band	5 500 MHz ~ 5 720 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 725 MHz ~ 5 850 MHz Band	5 745 MHz ~ 5 825 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
MODULATION TYPE	Bluetooth LE	GFSK for 2 Mbps
	WLAN 2.4 GHz	802.11b: DSSS Modulation(DBPSK/DQPSK/CCK) 802.11g/n(HT20): OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
	WLAN 5 GHz	802.11a/n(HT20)/ax(HE20)) OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
RF OUTPUT POWER	Bluetooth LE	5.82 dBm
	WLAN 2.4 GHz	12.96 dBm(802.11b) 13.06 dBm(802.11g) 13.02 dBm(802.11n_HT20) 12.96 dBm(802.11ax_HE20)

RF OUTPUT POWER	WLAN 5 150 MHz ~ 5 250 MHz Band	9.10 dBm(802.11a) 9.05 dBm(802.11ac_VHT20) 9.30 dBm(802.11ax_HE20)
	WLAN 5 250 MHz ~ 5 350 MHz Band	13.59 dBm(802.11a) 13.56 dBm(802.11ac_VHT20) 13.78 dBm(802.11ax_HE20)
	WLAN 5 470 MHz ~ 5 725 MHz Band	15.02 dBm(802.11a) 15.11 dBm(802.11ac_VHT20) 15.35 dBm(802.11ax_HE20)
	WLAN 5 725 MHz ~ 5 850 MHz Band	8.25 dBm(802.11a) 8.21 dBm(802.11ac_VHT20) 8.49 dBm(802.11ax_HE20)
ANTENNA TYPE	Bluetooth LE: PCB Antenna WLAN 2.4 GHz / 5 GHz: Metal Antenna	
ANTENNA TRANSMIT TYPE	Bluetooth LE: 1T1R WLAN 5 GHz: 1T1R WLAN 2.4 GHz: 1T1R	
ANTENNA GAIN	Bluetooth LE	-0.13 dBi
	WLAN 2.4 GHz	-0.19 dBi
	5 150 MHz ~ 5 250 MHz Band	4.65 dBi
	5 250 MHz ~ 5 350 MHz Band	5.07 dBi
	5 470 MHz ~ 5 725 MHz Band	5.37 dBi
	5 725 MHz ~ 5 850 MHz Band	4.36 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)		40 MHz

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Remote Solution Co., Ltd.	N/A	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
EE48	Remote Solution Co., Ltd.	Josh Edge Base (EUT)	
HP250 G9 6N224PC	HP	Notebook PC	EUT

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting mode is programmed.

-. Frequency / Channel Operations

Band	Channel	Frequency
UNII 1	36	5 180
	44	5 220
	48	5 240
UNII 2A	52	5 260
	60	5 300
	64	5 320
UNII 2C	100	5 500
	116	5 580
	140	5 700
Straddle	144	5 720
UNII 3	149	5 745
	157	5 785
	165	5 825

-. Output power

Modulation	DATA RATE	OUTPUT POWER[dBm]			
		UNII 1	UNII 2A	UNII 2C	UNII 3
802.11 a (Middle Channel)	6 Mbps	8.00	12.90	14.67	8.00
	9 Mbps	8.03	12.96	14.70	8.01
	12 Mbps	8.14	12.96	14.74	8.11
	18 Mbps	8.06	12.94	14.64	8.14
	24 Mbps	8.68	13.43	14.98	8.66
	36 Mbps	8.77	13.47	15.02	8.77
	48 Mbps	8.76	13.44	14.93	8.69
	54 Mbps	8.75	13.43	14.95	8.70
VHT 20 (Middle Channel)	MCS 0	7.97	12.83	14.70	7.54
	MCS 1	7.93	12.81	14.67	7.53
	MCS 2	7.93	12.80	14.64	7.50
	MCS 3	8.63	13.33	15.09	8.12
	MCS 4	8.61	13.32	15.09	8.13
	MCS 5	8.61	13.32	15.06	8.16
	MCS 6	8.62	13.31	15.02	8.15
	MCS 7	8.73	13.42	15.11	8.21
	MCS 8	8.65	13.33	15.08	8.19
HE 20 (Middle Channel)	MCS 0	7.93	12.87	14.84	7.49
	MCS 1	7.93	12.85	14.81	7.52
	MCS 2	7.91	12.83	14.74	7.47
	MCS 3	8.71	13.46	15.22	8.26
	MCS 4	8.72	13.46	15.29	8.23
	MCS 5	8.93	13.64	15.35	8.49
	MCS 6	8.72	13.49	15.28	8.30
	MCS 7	8.66	13.48	15.11	8.26
	MCS 8	8.92	13.62	15.31	8.39
	MCS 9	8.55	13.37	15.02	8.12

-. The worse case data rate for each modulation is determined 36 Mbps for IEEE 802.11a, MCS 7 for VHT20, MCS 5 for HE20. (Power Level Setting: 13)

-. To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis.

- Duty Cycle

Band	Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
UNII 1	802.11 a	-	-	100.00	-
	802.11 VHT 20	-	-	100.00	-
	802.11 HE 20	-	-	100.00	-
UNII 2A	802.11 a	-	-	100.00	-
	802.11 VHT 20	-	-	100.00	-
	802.11 HE 20	-	-	100.00	-
UNII 2C	802.11 a	-	-	100.00	-
	802.11 VHT 20	-	-	100.00	-
	802.11 HE 20	-	-	100.00	-
UNII 3	802.11 a	-	-	100.00	-
	802.11 VHT 20	-	-	100.00	-
	802.11 HE 20	-	-	100.00	-
Staddle	802.11 a	-	-	100.00	-
	802.11 VHT 20	-	-	100.00	-
	802.11 HE 20	-	-	100.00	-

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : 10 * Log(1 / (Duty Cycle / 100))

5.4 Configuration of Test System

Line Conducted Test: The EUT was connected to USB and the power of USB was connected to Notebook PC. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The EUT's antennas are a Metal antenna, which are permanently attached to the EUT and cannot be replaced by the user.

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Output Power	1.22
Conducted Spurious Emission < 26.5 GHz	1.40
Power Spectral Density	1.22
Line Conducted Disturbance (150 kHz ~ 30 MHz)	1.60
Radiated Disturbance (9 kHz ~ 30 MHz)	3.28
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.12
Radiated Disturbance (18 GHz ~ 40 GHz)	5.67

7. PRELIMINARY TEST

7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

8. MINIMUM 26 dB BANDWIDTH

8.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to approximately 1% of the emission bandwidth, and peak detection was used. The 26 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 26 dB.



8.3 Test Date

November 03, 2025 ~ November 25, 2025

8.4 Test data for 802.11a RLAN Mode

8.4.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 150 ~ 5 250	Low	5 180	19.43
	Middle	5 220	19.33
	High	5 240	19.28
5 250 ~ 5 350	Low	5 260	19.58
	Middle	5 300	19.98
	High	5 320	20.63
5 470 ~ 5 725	Low	5 500	27.07
	Middle	5 580	31.67
	High	5 700	34.47
5 725 ~ 5 850	Low	5 745	19.43
	Middle	5 785	19.43
	High	5 825	19.58

8.4.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	21.23
5 725 ~ 5 850	5 720	13.18

8.5 Test data for 802.11ac_VHT20 RLAN Mode

8.5.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 150 ~ 5 250	Low	5 180	19.73
	Middle	5 220	19.78
	High	5 240	19.78
5 250 ~ 5 350	Low	5 260	20.03
	Middle	5 300	20.18
	High	5 320	20.23
5 470 ~ 5 725	Low	5 500	26.47
	Middle	5 580	32.02
	High	5 700	31.42
5 725 ~ 5 850	Low	5 745	19.73
	Middle	5 785	19.73
	High	5 825	19.83

8.5.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	21.28
5 725 ~ 5 850	5 720	11.33

8.6 Test data for 802.11ax_HE20 RLAN Mode

8.6.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 150 ~ 5 250	Low	5 180	20.08
	Middle	5 220	20.03
	High	5 240	20.08
5 250 ~ 5 350	Low	5 260	20.08
	Middle	5 300	20.43
	High	5 320	22.88
5 470 ~ 5 725	Low	5 500	25.57
	Middle	5 580	32.52
	High	5 700	33.77
5 725 ~ 5 850	Low	5 745	20.03
	Middle	5 785	20.13
	High	5 825	20.08

8.6.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	26 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	23.48
5 725 ~ 5 850	5 720	10.33

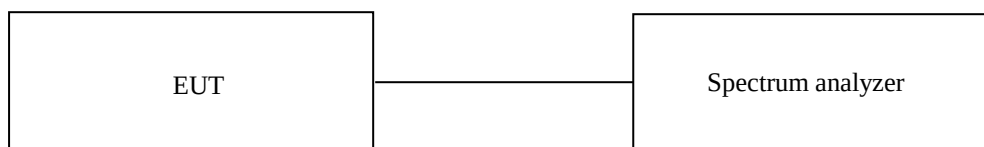
9. 6 dB BANDWIDTH

9.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

9.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



9.3 Test Date

November 03, 2025 ~ November 25, 2025

9.4 Test data for 802.11a RLAN Mode

9.4.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 725 ~ 5 850	Low	5 745	16.53
	Middle	5 785	16.58
	High	5 825	16.53

9.4.3 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	13.24
5 725 ~ 5 850	5 720	3.29

9.5 Test data for 802.11ac_VHT20 RLAN Mode

9.5.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 725 ~ 5 850	Low	5 745	17.78
	Middle	5 785	17.78
	High	5 825	17.78

9.5.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	13.89
5 725 ~ 5 850	5 720	3.89

9.6 Test data for 802.11ax_HE20 RLAN Mode

9.6.1 Test data

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 725 ~ 5 850	Low	5 745	18.48
	Middle	5 785	18.43
	High	5 825	18.43

9.6.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	6 dB Bandwidth (MHz)
5 470 ~ 5 725	5 720	14.14
5 725 ~ 5 850	5 720	4.29

10. MAXIMUM CONDUCTED OUTPUT POWER

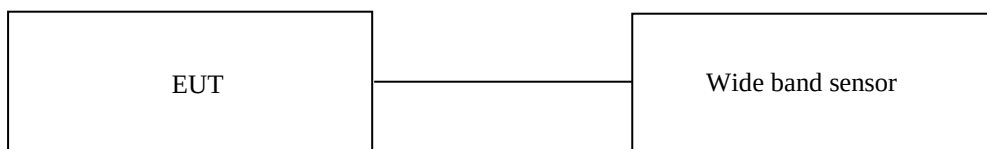
10.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

10.2 Test set-up

10.2.1 Test Procedure(Power Sensor)

The maximum peak output power was measured with the wide band sensor connected to the antenna output of the EUT.
The Wide Band Sensor is measured when the EUT is transmitting at the appropriate center frequency its maximum power control level as described in Section E. 3.(KDB 789033 D02 General UNII Test Procedures New Rules v02r01).
Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



10.2.2 Test Procedure(Spectrum, Analyzer)

The antenna output of the EUT was connected to the spectrum analyzer.
The resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Test Date

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10.4 Test data for 802.11a

10.4.1 Test data

-. Test Result : Pass

-. Duty Cycle : > 98 %

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	8.59	24.00	15.41
	Middle	5 220	8.77	24.00	15.23
	High	5 240	9.10	24.00	14.90
5 250 ~ 5 350	Low	5 260	13.48	24.00	10.52
	Middle	5 300	13.47	24.00	10.53
	High	5 320	13.59	24.00	10.41
5 470 ~ 5 725	Low	5 500	15.01	24.00	8.99
	Middle	5 580	15.02	24.00	8.98
	High	5 700	14.56	24.00	9.44
5 725 ~ 5 850	Low	5 745	7.69	24.00	16.31
	Middle	5 785	8.25	24.00	15.75
	High	5 825	8.07	24.00	15.93

Remark: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

10.4.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	13.43	24.00	10.57
5 725 ~ 5 825	5 720	7.30	30.00	22.70

10.5 Test data for 802.11ac_VHT20 RLAN Mode

10.5.1 Test data

-. Test Result : Pass

-. Duty Cycle : > 98 %

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	8.04	24.00	15.96
	Middle	5 220	8.73	24.00	15.27
	High	5 240	9.05	24.00	14.95
5 250 ~ 5 350	Low	5 260	13.53	24.00	10.47
	Middle	5 300	13.42	24.00	10.58
	High	5 320	13.56	24.00	10.44
5 470 ~ 5 725	Low	5 500	14.86	24.00	9.14
	Middle	5 580	15.11	24.00	8.89
	High	5 700	14.59	24.00	9.41
5 725 ~ 5 850	Low	5 745	7.67	24.00	16.33
	Middle	5 785	8.21	24.00	15.79
	High	5 825	8.11	24.00	15.89

Remark: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

10.5.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	13.43	24.00	10.57
5 725 ~ 5 825	5 720	7.74	30.00	22.26

10.6 Test data for 802.11ax_HE20 RLAN Mode

10.6.1 Test data

-. Test Result : Pass

-. Duty Cycle : > 98 %

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	7.65	24.00	16.35
	Middle	5 220	8.93	24.00	15.07
	High	5 240	9.30	24.00	14.70
5 250 ~ 5 350	Low	5 260	13.78	24.00	10.22
	Middle	5 300	13.64	24.00	10.36
	High	5 320	13.76	24.00	10.24
5 470 ~ 5 725	Low	5 500	15.08	24.00	8.92
	Middle	5 580	15.35	24.00	8.65
	High	5 700	14.73	24.00	9.27
5 725 ~ 5 850	Low	5 745	7.92	24.00	16.08
	Middle	5 785	8.49	24.00	15.51
	High	5 825	8.26	24.00	15.74

Remark: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

10.6.2 Test data for Staddle Channel

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	13.44	24.00	10.56
5 725 ~ 5 825	5 720	8.24	30.00	21.76

11. PEAK POWER SPECTRUL DENSITY

11.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

11.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 1 MHz and 500 kHz(UNII 3), the video bandwidth is set to 3 times the resolution bandwidth. The maximum level for the EUT in 1 MHz bandwidth was measured with above condition



11.3 Test Date

November 03, 2025 ~ November 25, 2025

11.4 Test data for 802.11a RLAN Mode

11.4.1 Test data

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-2.24	-	11.00	13.24
	Middle	5 220	-2.18	-	11.00	13.18
	High	5 240	-1.56	-	11.00	12.56
5 250 ~ 5 350	Low	5 260	2.50	-	11.00	8.50
	Middle	5 300	2.36	-	11.00	8.64
	High	5 320	2.60	-	11.00	8.40
5 470 ~ 5 725	Low	5 500	4.26	-	11.00	6.74
	Middle	5 580	3.96	-	11.00	7.04
	High	5 700	3.50	-	11.00	7.50
5 725 ~ 5 850	Low	5 745	-6.13	-	30.00	36.13
	Middle	5 785	-5.44	-	30.00	35.44
	High	5 825	-5.71	-	30.00	35.71

Remark: Margin = Limit – EIRP(=Measured Value + Antenna Gain) Or
Limit – Measured Value

11.4.2 Test data for Staddle Channel

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	3.48	-	11.00	7.52
5 725 ~ 5 850	5 720	-0.18	-	30.00	30.18

11.5 Test data for 802.11ac_VHT20 RLAN Mode

11.5.1 Test data

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-2.96	-	11.00	13.96
	Middle	5 220	-2.57	-	11.00	13.57
	High	5 240	-1.91	-	11.00	12.91
5 250 ~ 5 350	Low	5 260	2.47	-	11.00	8.53
	Middle	5 300	1.76	-	11.00	9.24
	High	5 320	2.44	-	11.00	8.56
5 470 ~ 5 725	Low	5 500	3.78	-	11.00	7.22
	Middle	5 580	3.99	-	11.00	7.01
	High	5 700	3.19	-	11.00	7.81
5 725 ~ 5 850	Low	5 745	-6.43	-	30.00	36.43
	Middle	5 785	-5.67	-	30.00	35.67
	High	5 825	-5.89	-	30.00	35.89

Remark: Margin = Limit – EIRP(=Measured Value + Antenna Gain) Or

Limit – Measured Value

11.5.2 Test data for Staddle Channel

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	3.04	-	11.00	7.96
5 725 ~ 5 850	5 720	-0.17	-	30.00	30.17

11.6 Test data for 802.11ax_HE20 RLAN Mode

11.6.1 Test data

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 150 ~ 5 250	Low	5 180	-3.14	-	11.00	14.14
	Middle	5 220	-2.67	-	11.00	13.67
	High	5 240	-2.13	-	11.00	13.13
5 250 ~ 5 350	Low	5 260	2.41	-	11.00	8.59
	Middle	5 300	2.39	-	11.00	8.61
	High	5 320	2.47	-	11.00	8.53
5 470 ~ 5 725	Low	5 500	3.77	-	11.00	7.23
	Middle	5 580	4.08	-	11.00	6.92
	High	5 700	3.47	-	11.00	7.53
5 725 ~ 5 850	Low	5 745	-3.27	-	30.00	33.27
	Middle	5 785	-2.81	-	30.00	32.81
	High	5 825	-3.06	-	30.00	33.06

Remark: Margin = Limit – EIRP(=Measured Value + Antenna Gain) Or
Limit – Measured Value

11.6.2 Test data for Staddle Channel

-. Operating condition : Highest Output Power Transmitting Mode

-. Test Result : Pass

FREQUENCY RANGE (MHz)	FREQUENCY (MHz)	MEASURED VALUE (dBm)	EIRP (dBm)	LIMIT (dBm)	MARGIN (dB)
5 470 ~ 5 725	5 720	3.22	-	11.00	7.78
5 725 ~ 5 850	5 720	-0.02	-	30.00	30.02

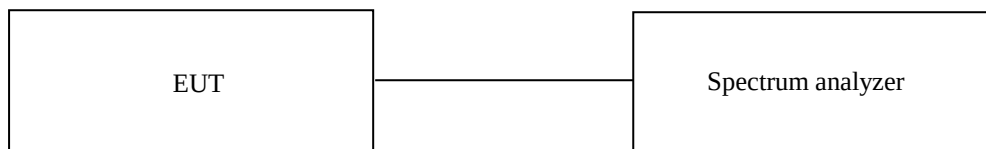
12. FREQUENCY STABILITY WITH TEMPERATURE VARIATION

12.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

12.2 Test set-up

Turn EUT off and set chamber temperature to -30 °C and then allow sufficient time (approximately 20 min to 30 min after chamber reach the assigned temperature) for EUT to stabilize. Turn on the EUT and measure the EUT operating frequency and then turn off the EUT after the measurement. The temperature in the chamber was raised 10 °C step from -30 °C to +80 °C. Repeat above method for frequency measurements every 10 °C step and then record all measured frequencies on each temperature step.



12.3 Test Date

November 03, 2025 ~ November 25, 2025

12.4 Test Data for U-NII-1

-. Result : Pass

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-30	5 180 000 000	5 180 032 870	32 870
-20		5 180 030 115	30 115
-10		5 180 025 445	25 445
0		5 180 017 308	17 308
10		5 180 008 395	8 395
20		5 180 002 843	2 843
30		5 180 001 250	1 250
40		5 180 010 194	10 194
50		5 180 020 754	20 754
-30	5 220 000 000	5 220 033 459	33 459
-20		5 220 030 265	30 265
-10		5 220 024 432	24 432
0		5 220 017 560	17 560
10		5 220 008 264	8 264
20		5 220 002 668	2 668
30		5 220 001 179	1 179
40		5 220 010 759	10 759
50		5 220 020 865	20 865
-30	5 240 000 000	5 240 035 960	35 960
-20		5 240 031 265	31 265
-10		5 240 023 355	23 355
0		5 240 018 005	18 005
10		5 240 007 995	7 995
20		5 240 002 569	2 569
30		5 240 001 106	1 106
40		5 240 011 097	11 097
50		5 240 021 059	21 059

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.

Four measurements in total are made.(ANSI C63.10: 2020)

12.5 Test Data for U-NII-2A

-. Result : Pass

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-30	5 260 000 000	5 260 035 566	35 566
-20		5 260 033 446	33 446
-10		5 260 023 225	23 225
0		5 260 016 880	16 880
10		5 260 010 325	10 325
20		5 260 002 945	2 945
30		5 260 000 745	745
40		5 260 010 290	10 290
50		5 260 023 265	23 265
-30	5 300 000 000	5 300 036 405	36 405
-20		5 300 034 565	34 565
-10		5 300 024 300	24 300
0		5 300 016 745	16 745
10		5 300 009 967	9 967
20		5 300 003 144	3 144
30		5 300 000 865	865
40		5 300 010 746	10 746
50		5 300 024 565	24 565
-30	5 320 000 000	5 320 037 060	37 060
-20		5 320 034 600	34 600
-10		5 320 023 251	23 251
0		5 320 016 650	16 650
10		5 320 009 364	9 364
20		5 320 003 336	3 336
30		5 320 000 966	966
40		5 320 011 129	11 129
50		5 320 026 785	26 785

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.

Four measurements in total are made.(ANSI C63.10: 2020)

12.6 Test Data for U-NII-2C

-. Result : Pass

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-30	5 500 000 000	5 500 039 358	39 358
-20		5 500 037 455	37 455
-10		5 500 030 051	30 051
0		5 500 014 390	14 390
10		5 500 007 895	7 895
20		5 500 002 655	2 655
30		5 500 004 145	4 145
40		5 500 013 690	13 690
50		5 500 027 854	27 854
-30	5 580 000 000	5 580 039 948	39 948
-20		5 580 036 598	36 598
-10		5 580 029 850	29 850
0		5 580 014 565	14 565
10		5 580 008 076	8 076
20		5 580 002 749	2 749
30		5 580 004 260	4 260
40		5 580 014 239	14 239
50		5 580 028 956	28 956
-30	5 700 000 000	5 700 040 259	40 259
-20		5 700 036 111	36 111
-10		5 700 028 457	28 457
0		5 700 014 268	14 268
10		5 700 008 256	8 256
20		5 700 002 801	2 801
30		5 700 004 339	4 339
40		5 700 014 895	14 895
50		5 700 030 115	30 115

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.

Four measurements in total are made.(ANSI C63.10: 2020)

12.7 Test Data for U-NII-3

-. Result : Pass

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-30	5 745 000 000	5 745 042 965	42 965
-20		5 745 040 165	40 165
-10		5 745 025 170	25 170
0		5 745 007 290	7 290
10		5 745 004 500	4 500
20		5 745 002 500	2 500
30		5 745 019 280	19 280
40		5 745 022 500	22 500
50		5 745 038 456	38 456
-30	5 785 000 000	5 785 042 559	42 559
-20		5 785 039 954	39 954
-10		5 785 023 585	23 585
0		5 785 006 905	6 905
10		5 785 001 644	1 644
20		5 785 004 846	4 846
30		5 785 019 595	19 595
40		5 785 023 459	23 459
50		5 785 039 945	39 945
-30	5 825 000 000	5 825 041 775	41 775
-20		5 825 038 841	38 841
-10		5 825 022 175	22 175
0		5 825 006 452	6 452
10		5 825 001 749	1 749
20		5 825 005 154	5 154
30		5 825 019 945	19 945
40		5 825 024 495	24 495
50		5 825 041 259	41 259

Note : While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.

Four measurements in total are made.(ANSI C63.10: 2020)

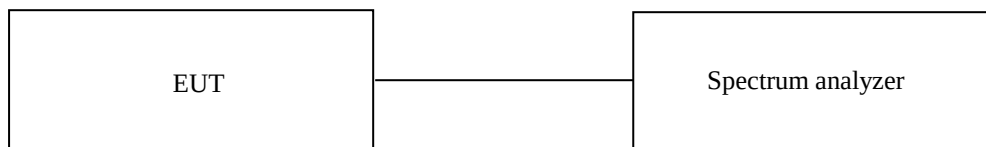
13. FREQUENCY STABILITY WITH VOLTAGE VARIATION

13.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

13.2 Test set-up

An external DC power supply was connected to the input of the EUT. The voltage of EUT set to 110.0 % of the nominal value and then was reduced to 90.0 % of nominal voltage. The output frequency was recorded at each step.



13.3 Test Date

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13.4 Test Data for U-NII-1

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.5	5 180 000 000	5 180 000 754	754
5.0		5 180 003 846	3 846
5.5		5 180 002 950	2 950
4.5	5 220 000 000	5 220 000 846	846
5.0		5 220 003 896	3 896
5.5		5 220 003 105	3 105
4.5	5 240 000 000	5 240 000 896	896
5.0		5 240 004 146	4 146
5.5		5 240 003 359	3 359

13.5 Test Data for U-NII-2A

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.5	5 260 000 000	5 260 003 450	3 450
5.0		5 260 011 480	11 480
5.5		5 260 009 790	9 790
4.5	5 300 000 000	5 300 003 566	3 566
5.0		5 300 011 690	11 690
5.5		5 300 009 854	9 854
4.5	5 320 000 000	5 320 003 710	3 710
5.0		5 320 011 759	11 759
5.5		5 320 009 960	9 960

13.6 Test Data for U-NII-2C

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.5	5 500 000 000	5 500 005 490	5 490
5.0		5 500 020 680	20 680
5.5		5 500 016 385	16 385
4.5	5 580 000 000	5 580 005 685	5 685
5.0		5 580 020 676	20 676
5.5		5 580 016 775	16 775
4.5	5 700 000 000	5 700 005 776	5 776
5.0		5 700 020 847	20 847
5.5		5 700 017 085	17 085

13.7 Test Data for U-NII-3

-. Result : Pass

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.5	5 745 000 000	5 745 024 290	24 290
5.0		5 745 042 866	42 866
5.5		5 745 031 556	31 556
4.5	5 785 000 000	5 785 024 555	24 555
5.0		5 785 042 904	42 904
5.5		5 785 032 065	32 065
4.5	5 825 000 000	5 825 025 645	25 645
5.0		5 825 043 055	43 055
5.5		5 825 033 367	33 367

14. RADIATED SPURIOUS EMISSIONS

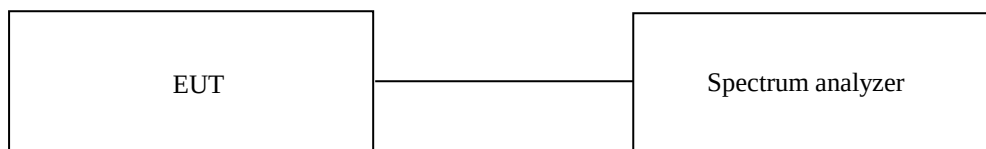
14.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

14.2 Test set-up for conducted measurement

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 40 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.



14.3 Test Date

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14.4 Test data for Below 30 MHz

- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

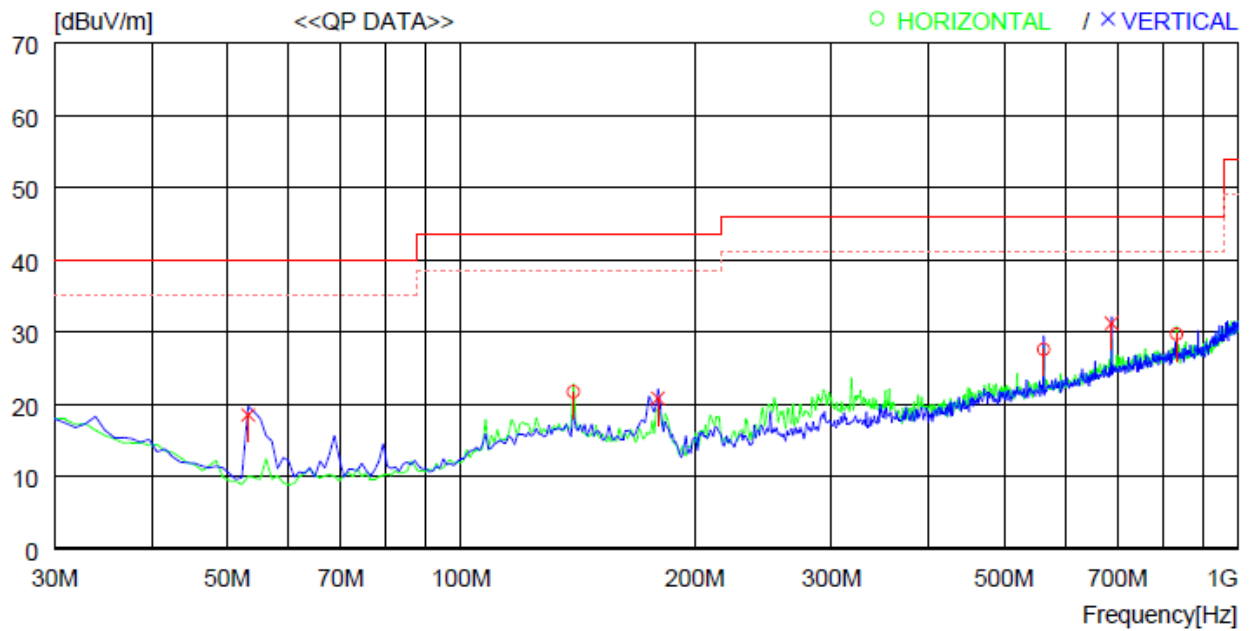
14.5 Test data for 30 MHz ~ 1 000 MHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Josh Edge Base

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	139.610	32.6	19.4	1.7	32.0	21.7	43.5	21.8	300	358
2	562.529	32.6	23.8	3.5	32.3	27.6	46.0	18.4	300	359
3	834.121	30.0	27.3	4.3	31.9	29.7	46.0	16.3	400	7
----- Vertical -----										
4	53.280	36.6	12.8	1.1	32.0	18.5	40.0	21.5	200	359
5	179.380	34.2	16.7	1.9	32.0	20.8	43.5	22.7	100	254
6	687.655	34.1	25.4	4.0	32.3	31.2	46.0	14.8	100	0

14.6 Test data for Above 1 GHz

14.6.1 Test data for Frequency UNII I

14.6.1.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 356.70	52.55	Peak	H	38.93	10.17	42.77	-	58.88	68.20	9.32
10 372.49	51.53	Peak	V	38.99	10.17	42.77	-	57.92	68.20	10.28
Test Data for Middle Channel										
10 438.50	51.88	Peak	H	39.10	10.17	42.77	-	58.38	68.20	9.82
10 433.76	51.66	Peak	V	39.10	10.17	42.77	-	58.16	68.20	10.04
Test Data for High Channel										
10 478.45	51.65	Peak	H	39.16	9.98	42.78	-	58.01	68.20	10.19
10 482.50	52.28	Peak	V	39.17	9.98	42.78	-	58.65	68.20	9.55

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.1.2 Test data for 802.11ac_VHT20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 361.85	51.89	Peak	H	38.95	10.17	42.77	-	58.24	68.20	9.96
10 372.99	51.56	Peak	V	38.99	10.17	42.77	-	57.95	68.20	10.25
Test Data for Middle Channel										
10 442.45	53.23	Peak	H	39.10	10.17	42.77	-	59.73	68.20	8.47
10 434.61	51.44	Peak	V	39.10	10.17	42.77	-	57.94	68.20	10.26
Test Data for High Channel										
10 486.94	53.01	Peak	H	39.17	9.98	42.78	-	59.38	68.20	8.82
10 493.99	52.20	Peak	V	39.19	9.98	42.78	-	58.59	68.20	9.61

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.1.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 370.14	52.33	Peak	H	38.98	10.17	42.77	-	58.71	68.20	9.49
10 375.04	51.42	Peak	V	39.00	10.17	42.77	-	57.82	68.20	10.38
Test Data for Middle Channel										
10 459.98	52.51	Peak	H	39.12	9.98	42.78	-	58.83	68.20	9.37
10 429.91	51.35	Peak	V	39.10	10.17	42.77	-	57.85	68.20	10.35
Test Data for High Channel										
10 474.16	53.39	Peak	H	39.15	9.98	42.78	-	59.74	68.20	8.82
10 477.50	51.95	Peak	V	39.16	9.98	42.78	-	58.31	68.20	9.61

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.2 Test data for Frequency UNII 2A

14.6.2.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 524.30	56.02	Peak	H	39.15	9.98	42.78	-	62.37	68.20	5.83
10 516.55	51.61	Peak	V	39.17	9.98	42.78	-	57.98	68.20	10.22
Test Data for Middle Channel										
10 595.80	54.90	Peak	H	39.10	10.32	42.79	-	61.53	74.00	6.67
10 600.90	43.10	Average	H	39.10	10.32	42.79	-	49.73	54.00	4.27
10 597.30	52.79	Peak	V	39.10	10.32	42.79	-	59.42	74.00	8.78
10 600.40	41.80	Average	V	39.10	10.32	42.79	-	48.43	54.00	5.57
Test Data for High Channel										
10 636.25	54.96	Peak	H	39.10	10.32	42.80	-	61.58	74.00	12.42
10 640.10	44.03	Average	H	39.10	10.32	42.80	-	50.65	54.00	3.35
10 636.65	52.77	Peak	V	39.10	10.32	42.80	-	59.39	74.00	14.61
10 640.50	40.70	Average	V	39.10	10.32	42.80	-	47.32	54.00	6.68

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.2.2 Test data for 802.11ac_VHT20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 518.60	54.88	Peak	H	39.16	9.98	42.78	-	61.24	68.20	6.96
10 520.20	51.68	Peak	V	39.16	9.98	42.78	-	58.04	68.20	10.16
Test Data for Middle Channel										
10 604.35	56.01	Peak	H	39.10	10.32	42.79	-	62.64	74.00	11.36
10 599.40	44.49	Average	H	39.10	10.32	42.79	-	51.12	54.00	2.88
10 608.04	52.48	Peak	V	39.10	10.32	42.80	-	59.10	74.00	14.90
10 597.85	40.64	Average	V	39.10	10.32	42.79	-	47.27	54.00	6.73
Test Data for High Channel										
10 639.65	54.84	Peak	H	39.10	10.32	42.80	-	61.46	74.00	12.54
10 639.80	43.68	Average	H	39.10	10.32	42.80	-	50.30	54.00	3.70
10 644.05	52.67	Peak	V	39.10	10.32	42.80	-	59.29	74.00	14.71
10 640.30	40.83	Average	V	39.10	10.32	42.80	-	47.45	54.00	6.55

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.2.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 520.75	56.10	Peak	H	39.16	9.98	42.78	-	62.46	68.20	5.74
10 523.30	51.79	Peak	V	39.15	9.98	42.78	-	58.14	68.20	10.06
Test Data for Middle Channel										
10 600.65	55.65	Peak	H	39.10	10.32	42.79	-	62.28	74.00	11.72
10 598.55	44.48	Average	H	39.10	10.32	42.79	-	51.11	54.00	2.89
10 598.55	52.96	Peak	V	39.10	10.32	42.79	-	59.59	74.00	8.61
10 598.55	40.50	Average	V	39.10	10.32	42.79	-	47.13	54.00	6.87
Test Data for High Channel										
10 640.75	55.41	Peak	H	39.10	10.32	42.80	-	62.03	74.00	11.97
10 640.70	42.02	Average	H	39.10	10.32	42.80	-	48.64	54.00	5.36
10 638.40	51.82	Peak	V	39.10	10.32	42.80	-	58.44	74.00	15.56
10 640.20	40.47	Average	V	39.10	10.32	42.80	-	47.09	54.00	6.91

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.3 Test data for Frequency UNII 2C

14.6.3.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
10 998.15	52.68	Peak	H	39.50	10.60	42.85	-	59.93	74.00	14.07
11 000.45	42.10	Average	H	39.50	10.60	42.85	-	49.35	54.00	4.65
11 003.20	51.80	Peak	V	39.49	10.60	42.85	-	59.04	74.00	14.96
11 004.85	39.74	Average	V	39.49	10.60	42.85	-	46.98	54.00	7.02
Test Data for Middle Channel										
11 162.95	52.71	Peak	H	39.27	10.57	42.84	-	59.71	74.00	14.29
11 159.55	41.79	Average	H	39.28	10.57	42.84	-	48.80	54.00	5.20
11 158.30	52.66	Peak	V	39.28	10.57	42.84	-	59.67	74.00	14.33
11 159.80	41.45	Average	V	39.28	10.57	42.84	-	48.46	54.00	5.54
Test Data for High Channel										
11 405.35	53.38	Peak	H	39.51	11.62	42.82	-	61.69	74.00	12.31
11 400.00	42.11	Average	H	39.50	11.62	42.82	-	50.41	54.00	3.59
11 395.60	52.20	Peak	V	39.49	11.62	42.82	-	60.49	74.00	13.51
11 400.55	41.05	Average	V	39.50	11.62	42.82	-	49.35	54.00	4.65

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.3.2 Test data for 802.11ac_VHT20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
11 008.34	53.47	Peak	H	39.48	10.60	42.85	-	60.70	74.00	13.30
10 999.55	41.09	Average	H	39.50	10.60	42.85	-	48.34	54.00	5.66
10 992.91	51.62	Peak	V	39.50	10.60	42.85	-	58.87	74.00	15.13
10 999.20	39.80	Average	V	39.50	10.60	42.85	-	47.05	54.00	6.95
Test Data for Middle Channel										
11 161.15	54.38	Peak	H	39.28	10.57	42.84	-	61.39	74.00	12.61
11 159.10	42.87	Average	H	39.28	10.57	42.84	-	49.88	54.00	4.12
11 155.85	54.06	Peak	V	39.29	10.57	42.84	-	61.08	74.00	12.92
11 158.45	42.57	Average	V	39.28	10.57	42.84	-	49.58	54.00	4.42
Test Data for High Channel										
11 401.15	54.17	Peak	H	39.50	11.62	42.82	-	62.47	74.00	11.53
11 399.15	43.16	Average	H	39.50	11.62	42.82	-	51.46	54.00	2.54
11 398.10	52.48	Peak	V	39.50	11.62	42.82	-	60.78	74.00	13.22
11 399.50	41.22	Average	V	39.50	11.62	42.82	-	49.52	54.00	4.48

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.3.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
11 000.55	53.55	Peak	H	39.50	10.60	42.85	-	60.80	74.00	13.20
11 000.90	42.06	Average	H	39.50	10.60	42.85	-	49.31	54.00	4.69
10 999.40	52.49	Peak	V	39.50	10.60	42.85	-	59.74	74.00	14.26
10 999.00	38.67	Average	V	39.50	10.60	42.85	-	45.92	54.00	8.08
Test Data for Middle Channel										
11 160.35	55.30	Peak	H	39.28	10.57	42.84	-	62.31	74.00	11.69
11 158.35	41.97	Average	H	39.28	10.57	42.84	-	48.98	54.00	5.02
11 154.36	54.03	Peak	V	39.29	10.57	42.84	-	61.05	74.00	12.95
11 158.55	43.64	Average	V	39.28	10.57	42.84	-	50.65	54.00	3.35
Test Data for High Channel										
11 400.85	54.01	Peak	H	39.50	11.62	42.82	-	62.31	74.00	11.69
11 400.50	43.16	Average	H	39.50	11.62	42.82	-	51.46	54.00	2.54
11 399.55	51.66	Peak	V	39.50	11.62	42.82	-	59.96	74.00	14.04
11 398.35	39.51	Average	V	39.50	11.62	42.82	-	47.81	54.00	6.19

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.4 Test data for Frequency UNII 3

14.6.4.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
11 495.25	50.90	Peak	H	39.60	11.69	42.81	-	59.38	74.00	14.62
11 489.10	39.51	Average	H	39.60	11.69	42.81	-	47.99	54.00	6.01
11 466.82	50.43	Peak	V	39.60	11.69	42.81	-	58.91	74.00	15.09
11 504.74	37.46	Average	V	39.60	11.69	42.81	-	45.94	54.00	8.06
Test Data for Middle Channel										
11 576.34	53.34	Peak	H	39.49	10.91	42.81	-	60.93	74.00	13.07
11 570.95	42.63	Average	H	39.52	10.91	42.81	-	50.25	54.00	3.75
11 574.40	49.81	Peak	V	39.50	10.91	42.81	-	57.41	74.00	16.59
11 570.20	37.71	Average	V	39.52	10.91	42.81	-	45.33	54.00	8.67
Test Data for High Channel										
11 647.85	52.35	Peak	H	39.30	10.91	42.81	-	59.75	74.00	14.25
11 649.90	40.13	Average	H	39.30	10.91	42.81	-	47.53	54.00	6.47
11 661.44	49.62	Peak	V	39.25	10.75	42.81	-	56.81	74.00	17.19
11 634.67	37.78	Average	V	39.33	10.91	42.81	-	45.21	54.00	8.79

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.4.2 Test data for 802.11ac_VHT20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
11 500.14	51.24	Peak	H	39.60	11.69	42.81	-	59.72	74.00	14.28
11 490.30	39.50	Average	H	39.60	11.69	42.81	-	47.98	54.00	6.02
11 486.70	49.37	Peak	V	39.60	11.69	42.81	-	57.85	74.00	16.15
11 482.41	37.58	Average	V	39.60	11.69	42.81	-	46.06	54.00	7.94
Test Data for Middle Channel										
11 570.90	51.78	Peak	H	39.52	10.91	42.81	-	59.40	74.00	14.60
11 569.90	40.26	Average	H	39.52	10.91	42.81	-	47.88	54.00	6.12
11 573.15	49.83	Peak	V	39.51	10.91	42.81	-	57.44	74.00	16.56
11 574.00	37.83	Average	V	39.50	10.91	42.81	-	45.43	54.00	8.57
Test Data for High Channel										
11 651.05	52.49	Peak	H	39.30	10.75	42.81	-	59.73	74.00	14.27
11 649.65	38.17	Average	H	39.30	10.91	42.81	-	45.57	54.00	8.43
11 632.07	50.04	Peak	V	39.34	10.91	42.81	-	57.48	74.00	16.52
11 646.30	37.86	Average	V	39.31	10.91	42.81	-	45.27	54.00	8.73

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

14.6.4.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 40 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
11 489.75	50.08	Peak	H	39.60	11.69	42.81	-	58.56	74.00	15.44
11 488.70	38.17	Average	H	39.60	11.69	42.81	-	46.65	54.00	7.35
11 476.61	50.06	Peak	V	39.60	11.69	42.81	-	58.54	74.00	15.46
11 493.70	37.41	Average	V	39.60	11.69	42.81	-	45.89	54.00	8.11
Test Data for Middle Channel										
11 570.65	53.68	Peak	H	39.52	10.91	42.81	-	61.30	74.00	12.70
11 570.35	39.23	Average	H	39.52	10.91	42.81	-	46.85	54.00	7.15
11 591.28	49.29	Peak	V	39.43	10.91	42.81	-	56.82	74.00	17.18
11 582.14	37.41	Average	V	39.47	10.91	42.81	-	44.98	54.00	9.02
Test Data for High Channel										
11 644.21	52.76	Peak	H	39.31	10.91	42.81	-	60.17	74.00	13.83
11 650.65	41.18	Average	H	39.30	10.75	42.81	-	48.42	54.00	5.58
11 652.35	49.38	Peak	V	39.29	10.75	42.81	-	56.61	74.00	17.39
11 634.62	37.58	Average	V	39.33	10.91	42.81	-	45.01	54.00	8.99

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)

15. RADIATED RESTRICTED BAND EDGE MEASUREMENTS

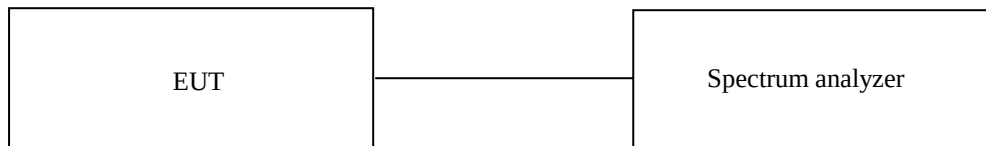
15.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

15.2 Test set-up for conducted measurement

The radiated emissions measurements were performed on the 3 m, open-field test site. The EUT was placed on a non-conductive turntable above the ground plane.

The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.



15.3 Test Date

November 03, 2025 ~ November 25, 2025

15.4 Test data for Frequency UNII I

15.4.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 698.02	56.21	Peak	H	31.30	6.40	42.24	-	-	51.67	74.00	22.33
4 774.11	45.16	Average	H	31.50	6.49	42.24	-	-	40.91	54.00	13.09
4 663.38	55.77	Peak	V	31.23	6.40	42.24	-	-	51.16	74.00	22.84
4 746.25	45.02	Average	V	31.49	6.40	42.24	-	-	40.67	54.00	13.33

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.4.2 Test data for 802.11ac_VHT20 RLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 701.42	56.27	Peak	H	31.31	6.40	42.24	-	-	51.74	74.00	22.26
4 697.34	45.16	Average	H	31.29	6.40	42.24	-	-	40.61	54.00	13.39
4 965.00	56.39	Peak	V	31.66	6.66	42.24	-	-	52.47	74.00	21.53
4 723.16	45.26	Average	V	31.39	6.40	42.24	-	-	40.81	54.00	13.19

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.4.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 687.15	56.08	Peak	H	31.27	6.40	42.24	-	-	51.51	74.00	22.49
4 756.44	45.28	Average	H	31.50	6.49	42.24	-	-	41.03	54.00	12.97
4 865.13	55.91	Peak	V	31.50	6.55	42.24	-	-	51.72	74.00	22.28
4 733.35	45.10	Average	V	31.43	6.40	42.24	-	-	40.69	54.00	13.31

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.5 Test data for Frequency UNII 2A

15.5.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 350.70	59.91	Peak	H	31.70	6.70	42.12	-	-	56.19	74.00	17.81
5 350.56	47.34	Average	H	31.70	6.70	42.12	-	-	43.62	54.00	10.38
5 350.14	62.30	Peak	V	31.70	6.70	42.12	-	-	58.58	74.00	15.42
5 350.14	48.48	Average	V	31.70	6.70	42.12	-	-	44.76	54.00	9.24

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.5.2 Test data for 802.11ac_VHT20 RLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 352.66	60.65	Peak	H	31.71	6.70	42.12	-	-	56.94	74.00	17.06
5 350.28	47.82	Average	H	31.70	6.70	42.12	-	-	44.10	54.00	9.90
5 350.98	61.91	Peak	V	31.70	6.70	42.12	-	-	58.19	74.00	15.81
5 350.28	49.05	Average	V	31.70	6.70	42.12	-	-	45.33	54.00	8.67

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.5.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 350.98	60.69	Peak	H	31.70	6.70	42.12	-	-	56.97	74.00	17.03
5 350.56	48.60	Average	H	31.70	6.70	42.12	-	-	44.88	54.00	9.12
5 350.00	60.84	Peak	V	31.70	6.70	42.12	-	-	57.12	74.00	16.88
5 350.14	50.17	Average	V	31.70	6.70	42.12	-	-	46.45	54.00	7.55

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.6 Test data for Frequency UNII 2C

15.6.1 Test data for 802.11a RLAN Mode

15.4.1.1 Test data

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 362.06	57.10	Peak	H	31.75	6.70	42.12	-	-	53.43	74.00	20.57
5 459.62	45.95	Average	H	32.10	6.87	42.08	-	-	42.84	54.00	11.16
5 350.22	61.51	Peak	V	31.70	6.70	42.12	-	-	57.79	74.00	16.21
5 459.62	47.06	Average	V	32.10	6.87	42.08	-	-	43.95	54.00	10.05

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.6.2 Test data for 802.11ac_VHT20 RLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 430.84	57.75	Peak	H	32.02	6.70	42.09	-	-	54.38	74.00	19.62
5 458.72	45.94	Average	H	32.10	6.87	42.08	-	-	42.83	54.00	11.17
5 459.92	57.97	Peak	V	32.10	6.87	42.08	-	-	54.86	74.00	19.14
5 458.57	47.27	Average	V	32.10	6.87	42.08	-	-	44.16	54.00	9.84

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.6.3 Test data for 802.11ax_HE20 RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 449.13	56.46	Peak	H	32.10	6.70	42.09	-	-	53.17	74.00	20.83
5 455.57	44.79	Average	H	32.10	6.87	42.09	-	-	41.67	54.00	12.33
5 458.57	60.05	Peak	V	32.10	6.87	42.08	-	-	56.94	74.00	17.06
5 459.47	47.83	Average	V	32.10	6.87	42.08	-	-	44.72	54.00	9.28

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.7 Test data for Frequency U-NII-3

15.7.1 Test data for 802.11a RLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel											
5 650.52	54.58	Peak	H	32.20	7.69	42.07	-	-	52.40	68.58	16.18
5 700.53	53.76	Peak	H	32.30	7.69	42.07	-	-	51.68	105.35	53.67
5 720.26	53.74	Peak	H	32.34	7.69	42.07	-	-	51.70	111.39	59.69
5 854.60	53.87	Peak	H	32.71	7.11	42.06	-	-	51.63	111.71	60.08
5 871.59	55.05	Peak	H	32.74	7.11	42.06	-	-	52.84	106.15	53.31
5 924.92	53.43	Peak	H	32.80	7.11	42.06	-	-	51.28	68.26	16.98
5 650.97	53.43	Peak	V	32.20	7.69	42.07	-	-	51.25	68.92	17.67
5 701.41	53.71	Peak	V	32.30	7.69	42.07	-	-	51.63	105.59	53.96
5 723.14	61.74	Peak	V	32.35	7.69	42.07	-	-	59.71	117.96	58.25
5 854.92	54.37	Peak	V	32.71	7.11	42.06	-	-	52.13	110.98	58.85
5 872.53	53.74	Peak	V	32.75	7.11	42.06	-	-	51.54	105.89	54.35
5 924.98	52.70	Peak	V	32.80	7.11	42.06	-	-	50.55	68.21	17.66

High Channel											
5 650.08	52.55	Peak	H	32.20	7.69	42.07	-	-	50.37	68.26	17.89
5 700.27	53.36	Peak	H	32.30	7.69	42.07	-	-	51.28	105.28	54.00
5 720.04	54.00	Peak	H	32.34	7.69	42.07	-	-	51.96	110.89	58.93
5 854.77	54.99	Peak	H	32.71	7.11	42.06	-	-	52.75	111.32	58.57
5 874.39	54.34	Peak	H	32.75	7.11	42.06	-	-	52.14	105.37	53.23
5 924.18	53.93	Peak	H	32.80	7.11	42.06	-	-	51.78	68.81	17.03
5 650.72	53.92	Peak	V	32.20	7.69	42.07	-	-	51.74	68.73	16.99
5 700.75	54.59	Peak	V	32.30	7.69	42.07	-	-	52.51	105.41	52.90
5 720.06	53.98	Peak	V	32.34	7.69	42.07	-	-	51.94	110.94	59.00
5 854.17	56.30	Peak	V	32.71	7.11	42.06	-	-	54.06	112.69	58.63
5 874.39	53.69	Peak	V	32.75	7.11	42.06	-	-	51.49	105.37	53.88
5 924.78	52.45	Peak	V	32.80	7.11	42.06	-	-	50.30	68.36	18.06

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.7.2 Test data for 802.11ac_VHT20 RLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel											
5 650.22	52.61	Peak	H	32.20	7.69	42.07	-	-	50.43	68.36	17.93
5 704.95	54.51	Peak	H	32.31	7.69	42.07	-	-	52.44	106.59	54.15
5 720.17	53.54	Peak	H	32.34	7.69	42.07	-	-	51.50	111.19	59.69
5 854.98	54.33	Peak	H	32.71	7.11	42.06	-	-	52.09	110.85	58.76
5 874.83	54.41	Peak	H	32.75	7.11	42.06	-	-	52.21	105.25	53.04
5 923.38	54.18	Peak	H	32.80	7.11	42.06	-	-	52.03	69.40	17.37
5 650.22	52.51	Peak	V	32.20	7.69	42.07	-	-	50.33	68.36	18.03
5 701.61	53.94	Peak	V	32.30	7.69	42.07	-	-	51.86	105.65	53.79
5 720.58	58.74	Peak	V	32.34	7.69	42.07	-	-	56.70	112.12	55.42
5 854.86	53.89	Peak	V	32.71	7.11	42.06	-	-	51.65	111.12	59.47
5 874.95	53.35	Peak	V	32.75	7.11	42.06	-	-	51.15	105.21	54.06
5 924.53	53.07	Peak	V	32.80	7.11	42.06	-	-	50.92	68.55	17.63

High Channel											
5 652.17	53.83	Peak	H	32.20	7.69	42.07	-	-	51.65	69.81	18.16
5 700.77	53.09	Peak	H	32.30	7.69	42.07	-	-	51.01	105.42	54.41
5 720.16	53.66	Peak	H	32.34	7.69	42.07	-	-	51.62	111.16	59.54
5 854.08	55.75	Peak	H	32.71	7.11	42.06	-	-	53.51	112.90	59.39
5 871.09	55.45	Peak	H	32.74	7.11	42.06	-	-	53.24	106.29	53.05
5 924.98	52.79	Peak	H	32.80	7.11	42.06	-	-	50.64	68.21	17.57
5 650.17	52.10	Peak	V	32.20	7.69	42.07	-	-	49.92	68.33	18.41
5 703.61	54.56	Peak	V	32.31	7.69	42.07	-	-	52.49	106.21	53.72
5 720.10	54.10	Peak	V	32.34	7.69	42.07	-	-	52.06	111.03	58.97
5 854.99	54.46	Peak	V	32.71	7.11	42.06	-	-	52.22	110.82	58.60
5 871.73	55.14	Peak	V	32.74	7.11	42.06	-	-	52.93	106.12	53.19
5 924.23	53.31	Peak	V	32.80	7.11	42.06	-	-	51.16	68.77	17.61

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.7.3 Test data for 802.11ax_HE20 RLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low Channel											
5 650.47	52.84	Peak	H	32.20	7.69	42.07	-	-	50.66	68.55	17.89
5 701.85	54.06	Peak	H	32.30	7.69	42.07	-	-	51.98	105.72	53.74
5 720.08	57.16	Peak	H	32.34	7.69	42.07	-	-	55.12	110.98	55.86
5 854.84	54.31	Peak	H	32.71	7.11	42.06	-	-	52.07	111.16	59.09
5 873.91	54.11	Peak	H	32.75	7.11	42.06	-	-	51.91	105.51	53.60
5 923.13	53.72	Peak	H	32.80	7.11	42.06	-	-	51.57	69.58	18.01
5 650.37	53.79	Peak	V	32.20	7.69	42.07	-	-	51.61	68.47	16.86
5 719.57	59.67	Peak	V	32.34	7.69	42.07	-	-	57.63	110.68	53.05
5 721.15	65.52	Peak	V	32.34	7.69	42.07	-	-	63.48	113.42	49.94
5 854.84	53.52	Peak	V	32.71	7.11	42.06	-	-	51.28	111.16	59.88
5 874.57	53.18	Peak	V	32.75	7.11	42.06	-	-	50.98	105.32	54.34
5 923.83	53.61	Peak	V	32.80	7.11	42.06	-	-	51.46	69.07	17.61

High Channel											
5 651.52	53.36	Peak	H	32.20	7.69	42.07	-	-	51.18	69.32	18.14
5 701.67	55.06	Peak	H	32.30	7.69	42.07	-	-	52.98	105.67	52.69
5 720.05	54.38	Peak	H	32.34	7.69	42.07	-	-	52.34	110.91	58.57
5 854.71	55.86	Peak	H	32.71	7.11	42.06	-	-	53.62	111.46	57.84
5 874.49	53.46	Peak	H	32.75	7.11	42.06	-	-	51.26	105.34	54.08
5 924.33	53.44	Peak	H	32.80	7.11	42.06	-	-	51.29	68.70	17.41
5 650.42	53.02	Peak	V	32.20	7.69	42.07	-	-	50.84	68.51	17.67
5 700.99	54.62	Peak	V	32.30	7.69	42.07	-	-	52.54	105.48	52.94
5 720.01	52.58	Peak	V	32.34	7.69	42.07	-	-	50.54	110.82	60.28
5 850.43	66.42	Peak	V	32.70	7.11	42.06	-	-	64.17	121.22	57.05
5 874.05	55.09	Peak	V	32.75	7.11	42.06	-	-	52.89	105.47	52.58
5 923.83	54.02	Peak	V	32.80	7.11	42.06	-	-	51.87	69.07	17.20

Tabulated test data for Restricted Band

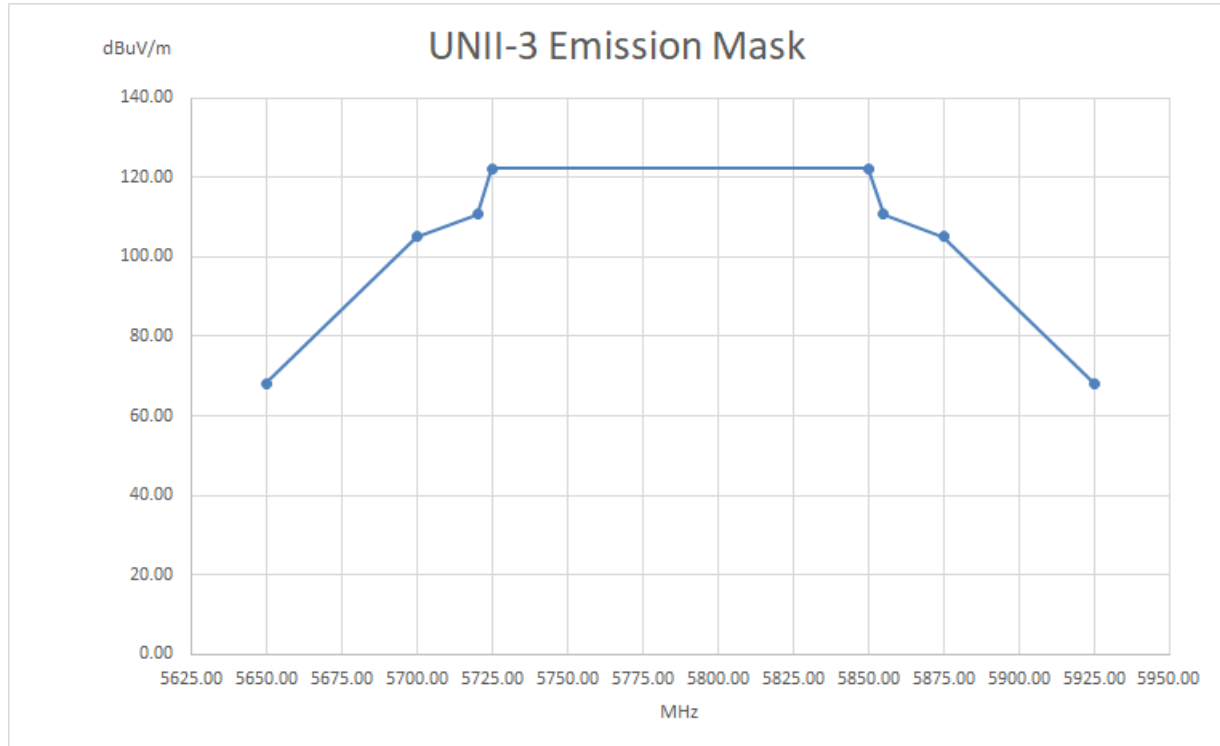
Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

15.7.5 U-NII-3 Emission Limits

15.7.5.1 Emission Mask Plots



Remark.

-. Title 47 → Part 15 → Subpart E—UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES

§ 15.407 General technical requirements.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

16. CONDUCTED EMISSION TEST

16.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

16.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

16.3 Test Date

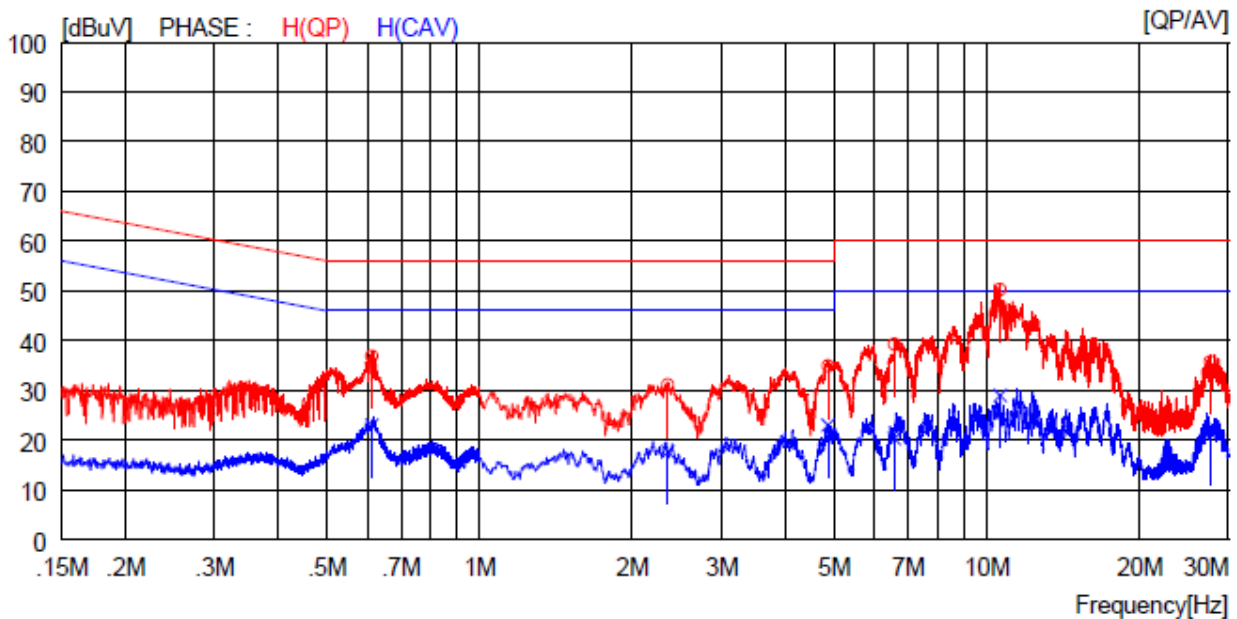
November 03, 2025 ~ November 25, 2025

16.4 Test data

16.4.1 Test data for WLAN 5 GHz

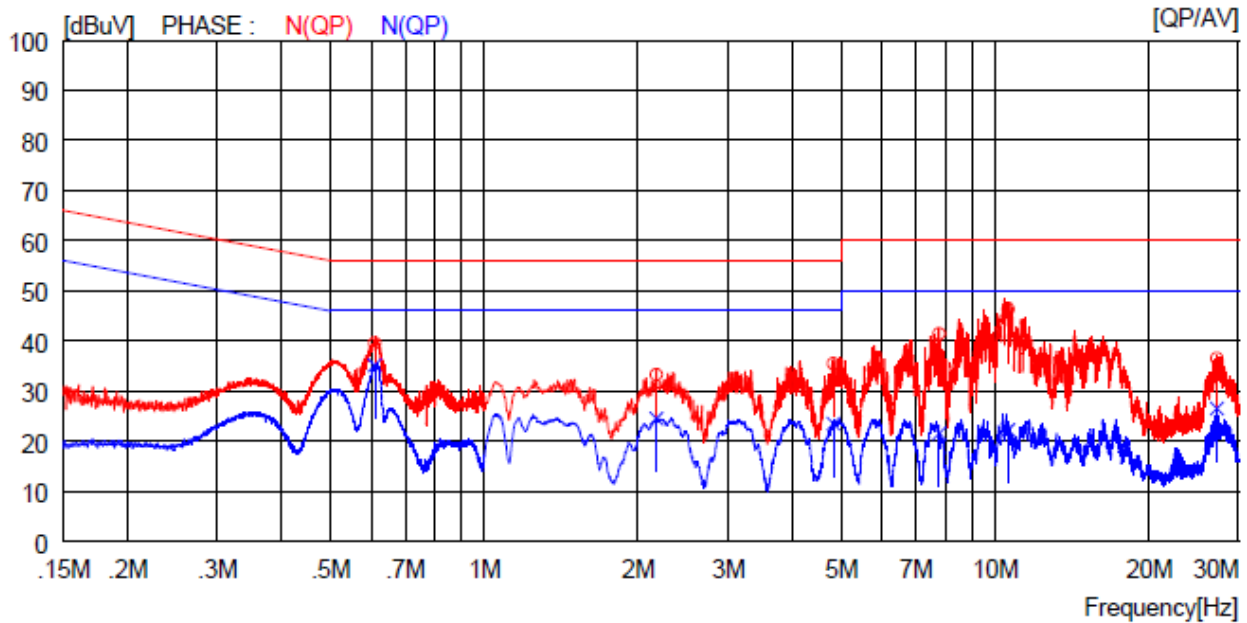
-. Resolution bandwidth : 9 kHz
 -. Frequency range : 0.15 MHz ~ 30 MHz

-. Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.61300	26.8	----	10.1	36.9	----	56.0	----	19.1	----	H (QP)
2	2.34800	21.0	----	10.1	31.1	----	56.0	----	24.9	----	H (QP)
3	4.86400	24.6	----	10.3	34.9	----	56.0	----	21.1	----	H (QP)
4	6.57000	29.0	----	10.3	39.3	----	60.0	----	20.7	----	H (QP)
5	10.63000	39.7	----	10.6	50.3	----	60.0	----	9.7	----	H (QP)
6	27.61000	24.2	----	11.5	35.7	----	60.0	----	24.3	----	H (QP)
7	0.61300	----	12.9	10.1	----	23.0	----	46.0	----	23.0	H (CAV)
8	2.34800	----	7.5	10.1	----	17.6	----	46.0	----	28.4	H (CAV)
9	4.86400	----	12.7	10.3	----	23.0	----	46.0	----	23.0	H (CAV)
10	6.57000	----	10.0	10.3	----	20.3	----	50.0	----	29.7	H (CAV)
11	10.63000	----	18.4	10.6	----	29.0	----	50.0	----	21.0	H (CAV)
12	27.61000	----	10.0	11.5	----	21.5	----	50.0	----	28.5	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.61000	29.4	----	10.1	39.5	----	56.0	----	16.5	----	N (QP)
2	2.17200	23.2	----	10.1	33.3	----	56.0	----	22.7	----	N (QP)
3	4.82400	25.2	----	10.3	35.5	----	56.0	----	20.5	----	N (QP)
4	7.77500	31.0	----	10.4	41.4	----	60.0	----	18.6	----	N (QP)
5	10.61000	35.7	----	10.6	46.3	----	60.0	----	13.7	----	N (QP)
6	27.19000	25.0	----	11.5	36.5	----	60.0	----	23.5	----	N (QP)
7	0.61000	----	25.0	10.1	----	35.1	----	46.0	----	10.9	N (CAV)
8	2.17200	----	14.4	10.1	----	24.5	----	46.0	----	21.5	N (CAV)
9	4.82400	----	13.2	10.3	----	23.5	----	46.0	----	22.5	N (CAV)
10	7.77500	----	11.2	10.4	----	21.6	----	50.0	----	28.4	N (CAV)
11	10.61000	----	11.6	10.6	----	22.2	----	50.0	----	27.8	N (CAV)
12	27.19000	----	15.0	11.5	----	26.5	----	50.0	----	23.5	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

17. DYNAMIC FREQUENCY SELECTION (DFS)

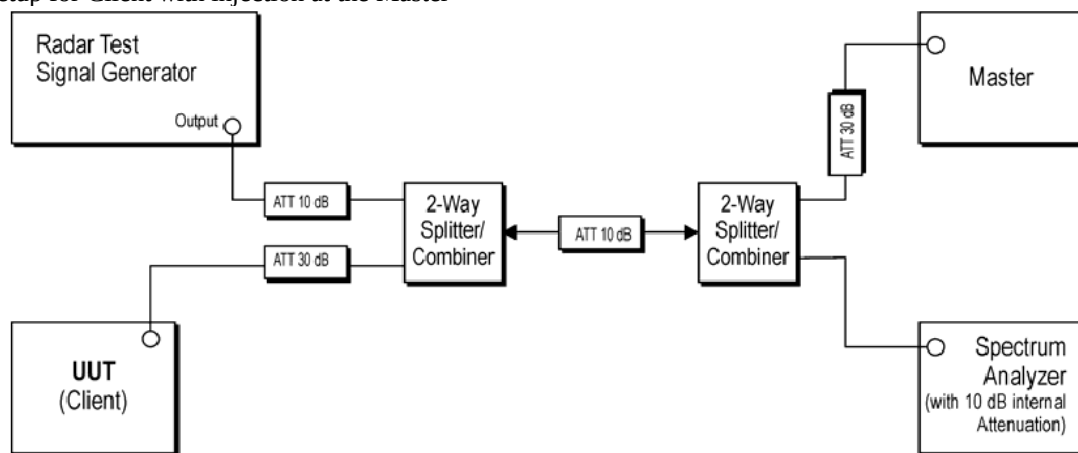
17.1 Operating environment

Temperature : 22 °C
Relative humidity : 41 % R.H.

17.2 Test set-ups

The FCC 06-96 and RSS-210 A9.3 describes a conducted test setup. A conducted test setup was user this testing. Figure 1 shows the typical test setup. Each one channel selected between 5 250 MHz and 5 350 MHz, 5 470 MHz and 5 725 MHz is chosen for the testing.

Figure 1. Setup for Client with injection at the Master



The operational behavior and individual DFS requirements that are associated with these modes are as follows:

<Master Devices>

- The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5 250 – 5 350 MHz and 5 470 – 5 725 MHz bands. DFS is not required in the 5 150 – 5 250 MHz or 5 725 – 5 825 MHz bands.
- Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.

f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period. 3

g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

<Client Devices>

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

<Channel Connection Information>

a) Master Devices : RT-AX88U

b) Client(=EUT) Devices : EE48

c) Connect to test channel : See next page for measurement data.

17.3 DFS Test Signals

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

17.4 Technical Requirement Specification

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>Uniform Spreading</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Closing Transmission Time</i>	Yes	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

17.5 Test Date

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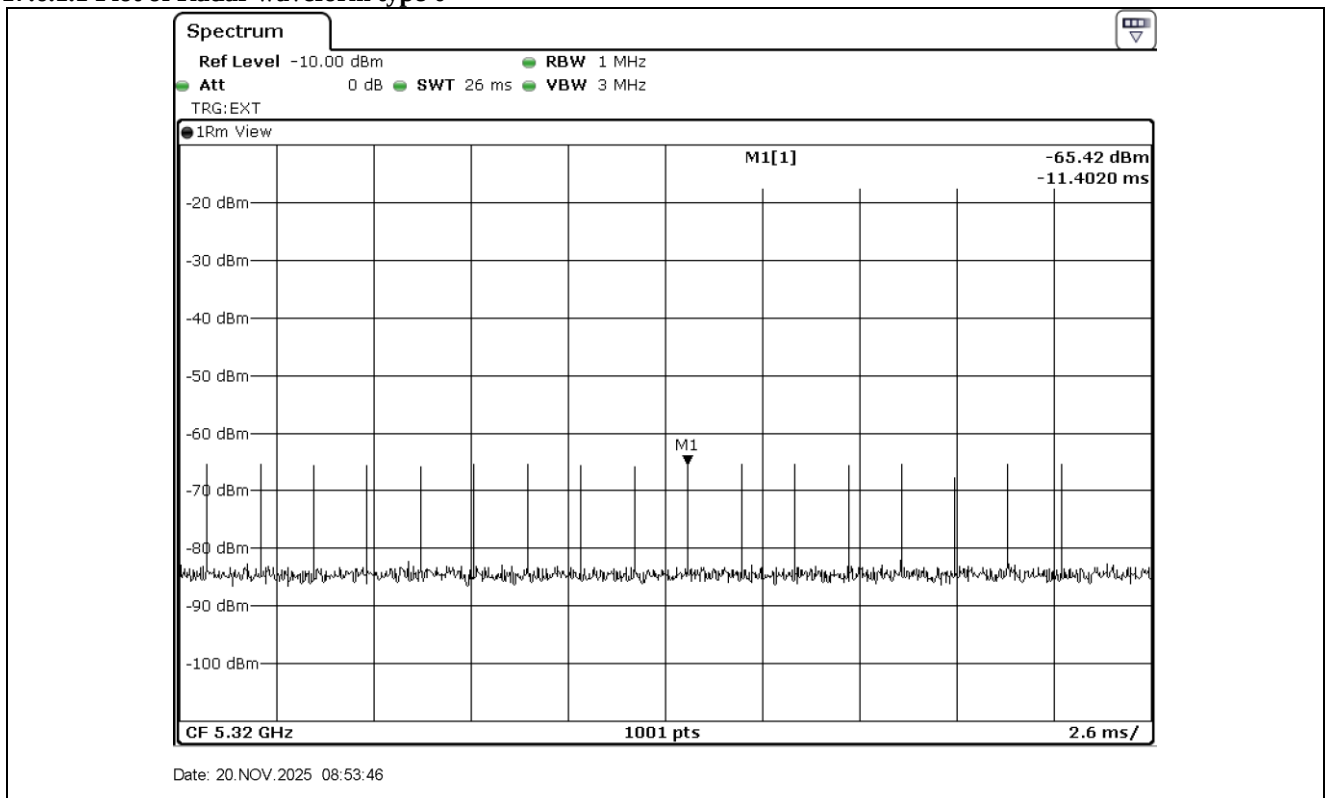
17.6 Test data

Band	Frequency (MHz)	Channel move time(s)		Channel closing transmission time(ms)	
		Measured	Limit	Measured	Limit
UNII 2A	5 320.00	0.84	10.00	1.8	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.
UNII 2C	5 500.00	0.84		1.6	

Note. Channel closing transmission time: $9 * 0.2 \text{ ms} = 1.8 \text{ ms}$ / $8 * 0.2 \text{ ms} = 1.6 \text{ ms}$

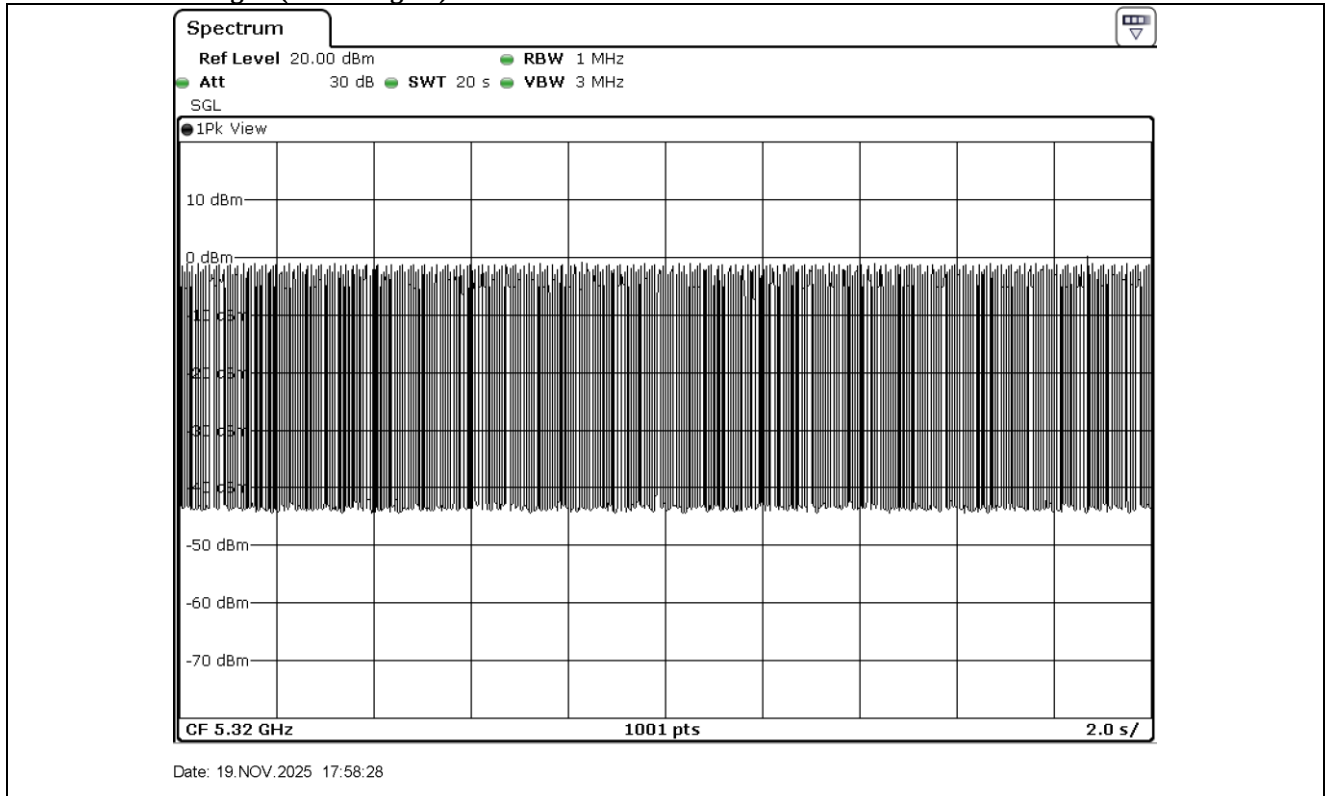
17.6.1 UNII 2A

17.6.1.1 Plot of Radar waveform type 0

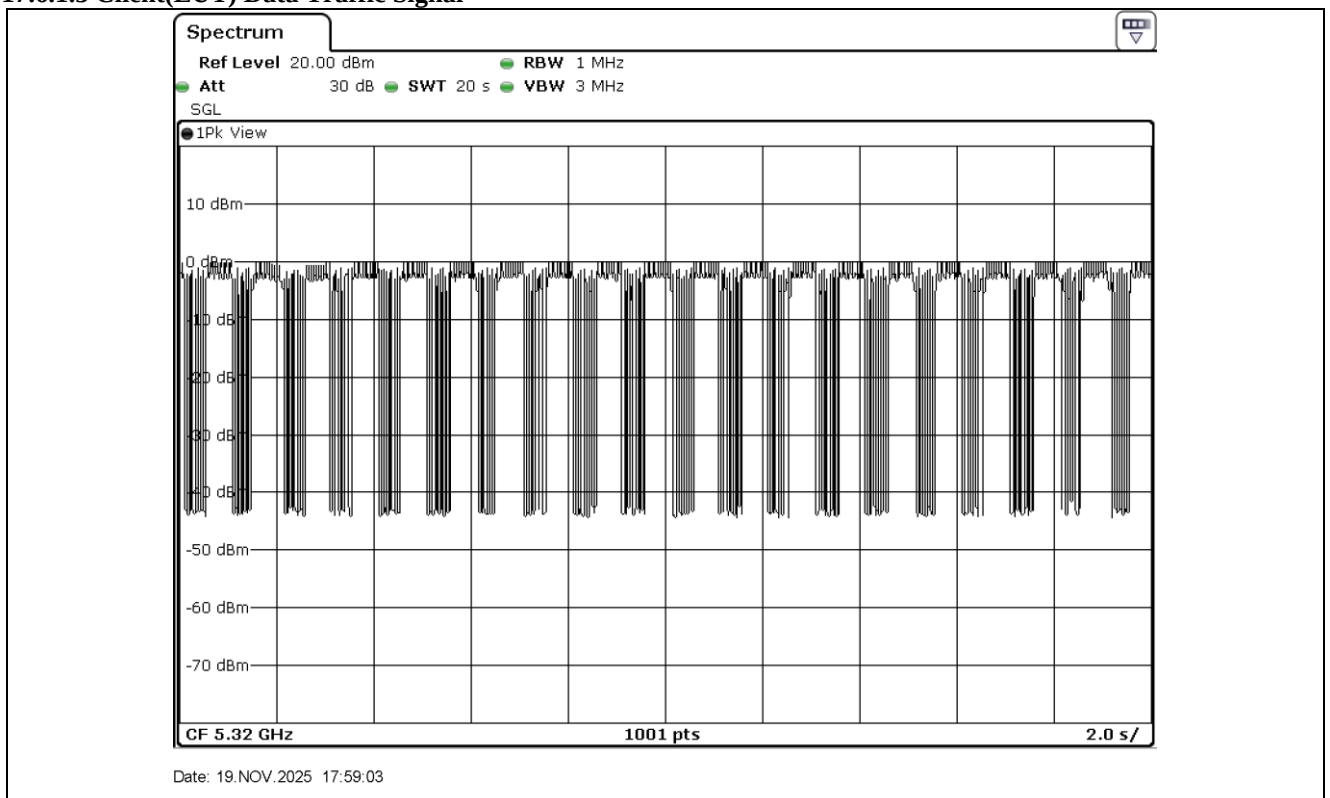


Note: The calibrated conducted DFS detection threshold level is set to -65.42 dBm ($-62+1+5.07 = -55.93 \text{ dBm}$)

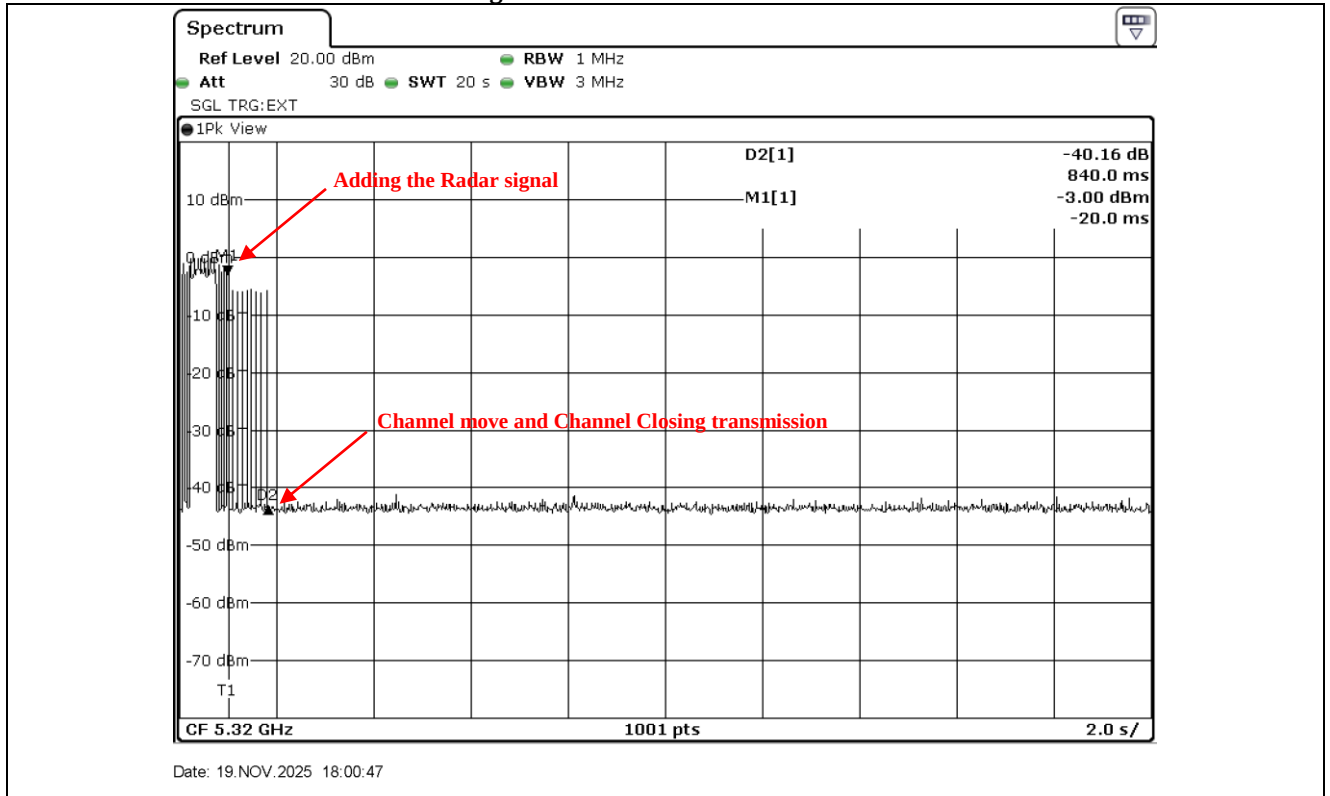
17.6.1.2 No traffic signal(master signal)



17.6.1.3 Client(EUT) Data Traffic Signal

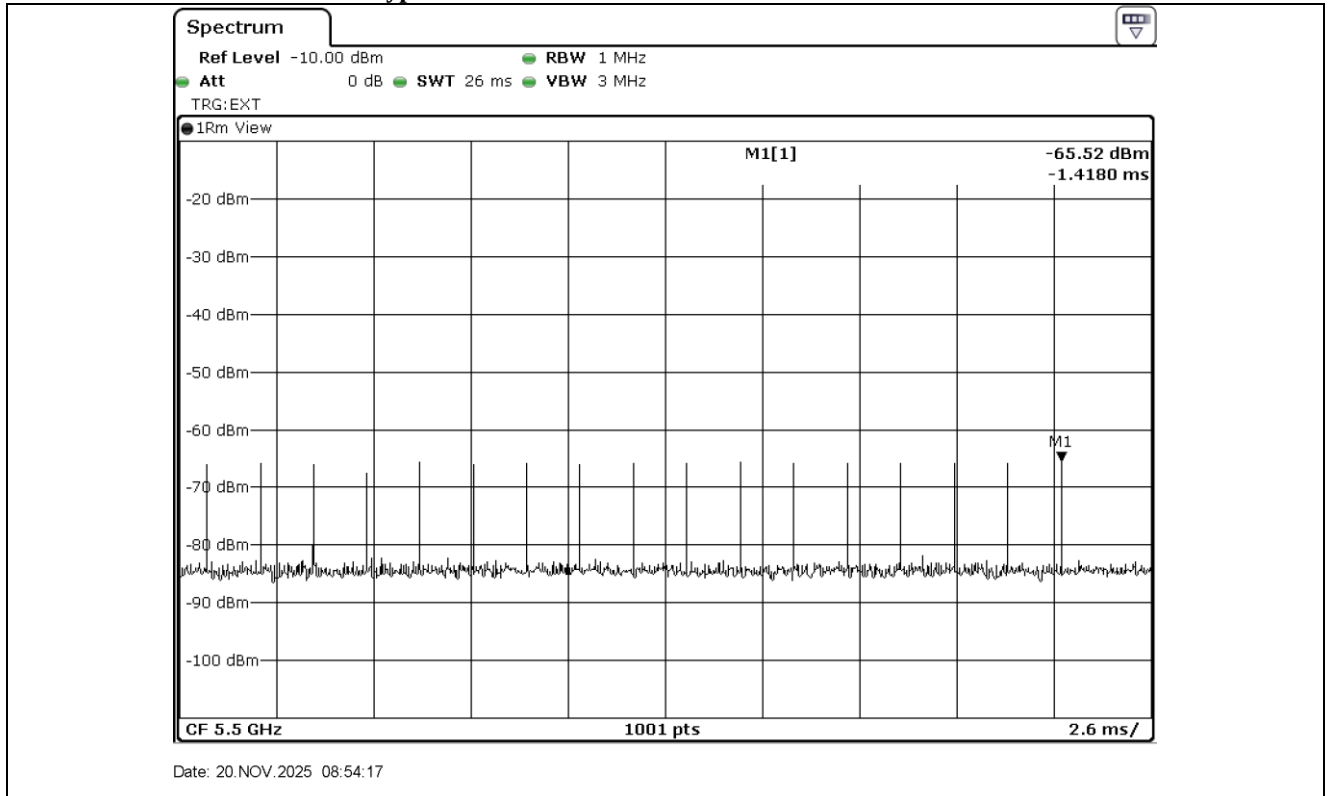


17.6.1.4 Channel move and Channel Closing transmission time



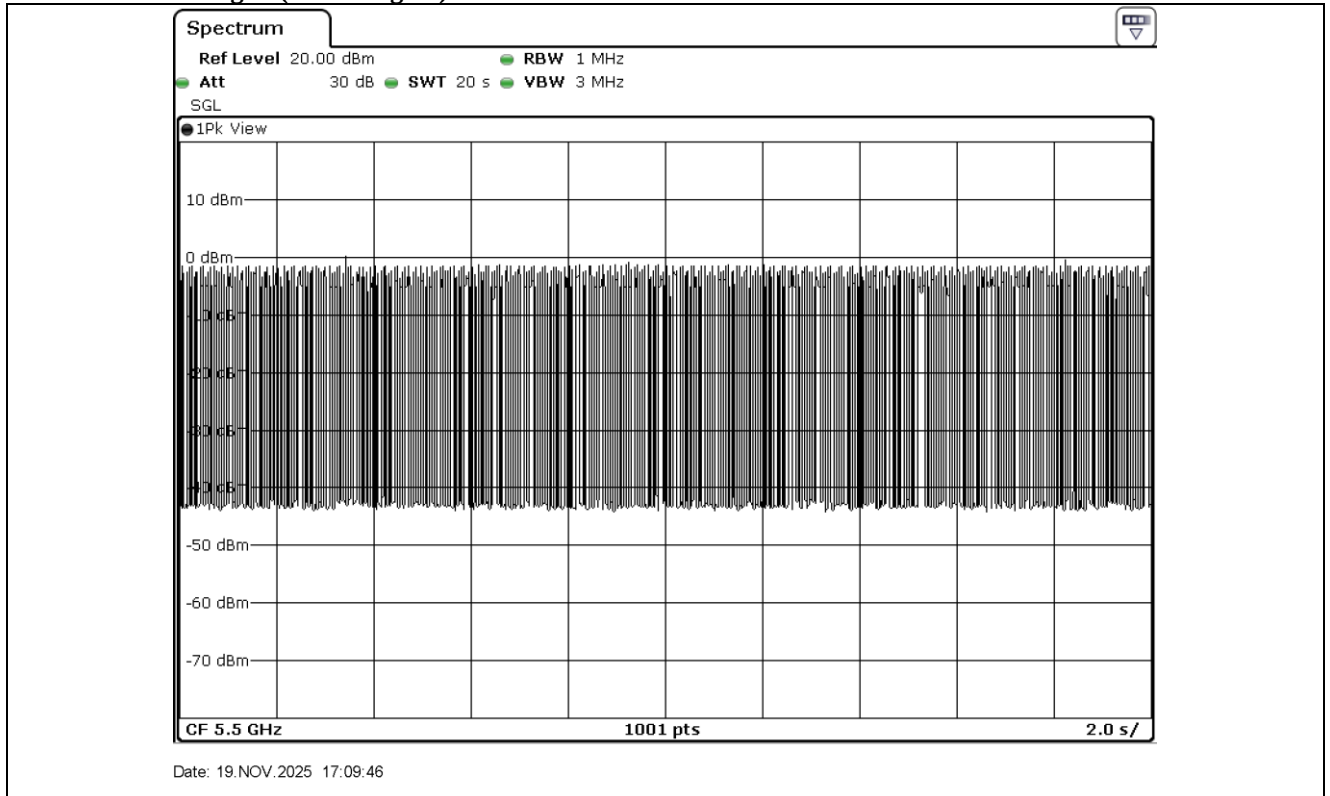
17.6.2 UNII 2C

17.6.2.1 Plot of Radar waveform type 0

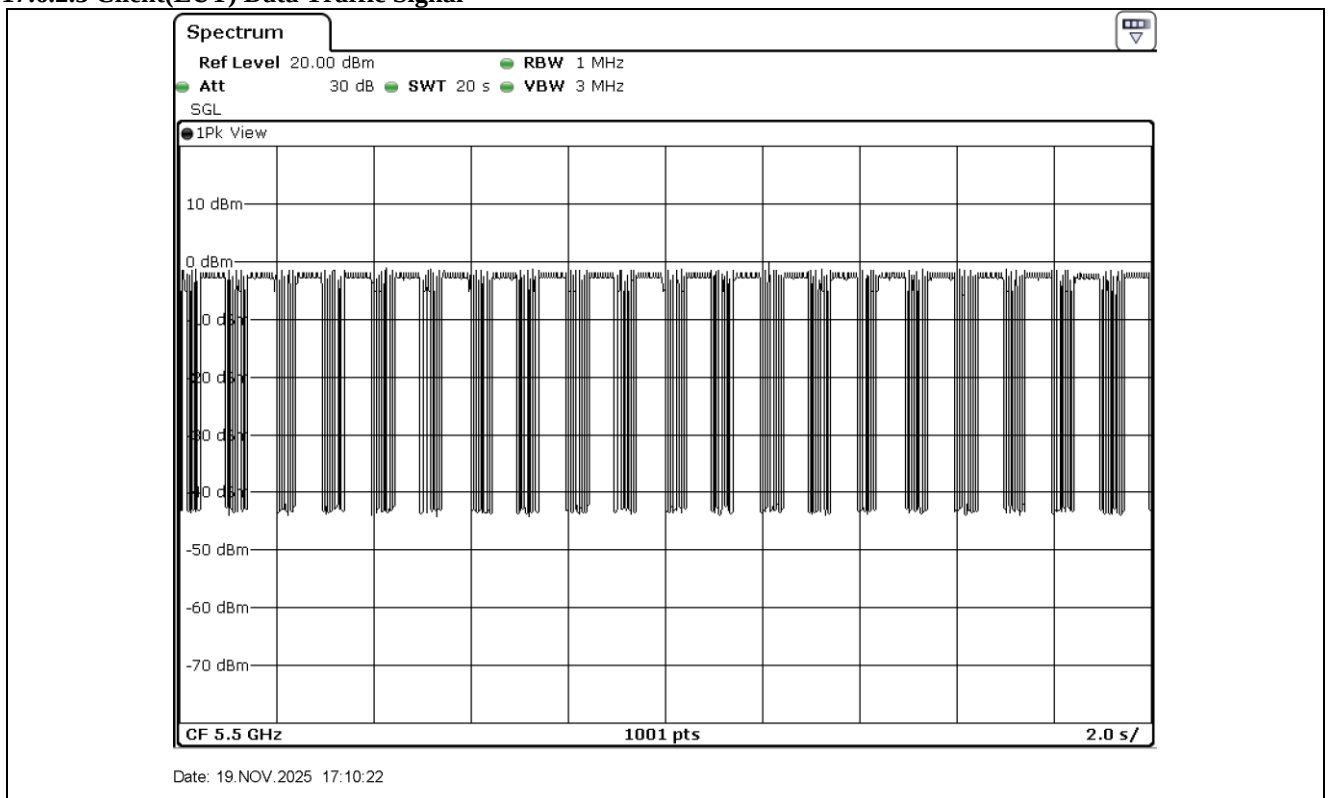


Note: The calibrated conducted DFS detection threshold level is set to -65.52 dBm ($-62+1+5.37 = -55.63$ dBm)

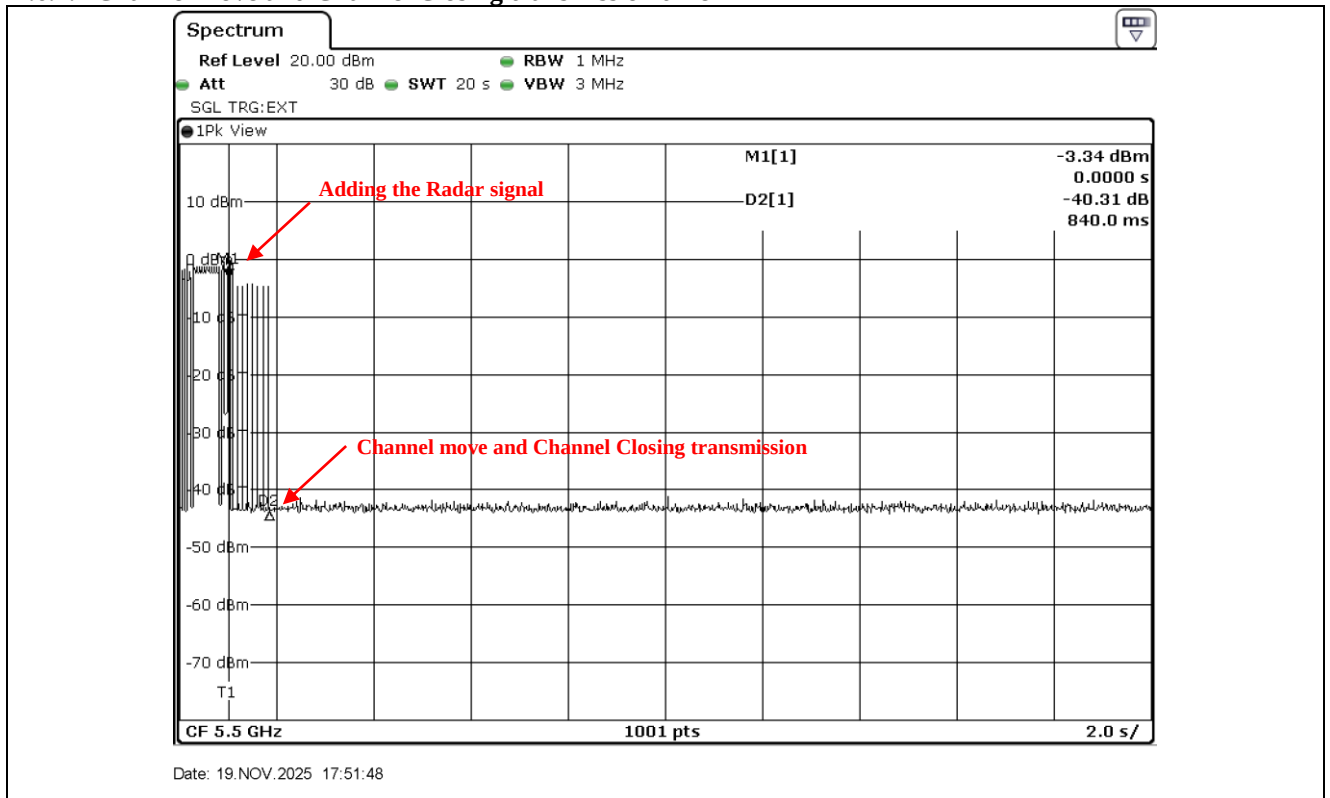
17.6.2.2 No traffic signal(master signal)



17.6.2.3 Client(EUT) Data Traffic Signal



17.6.2.4 Channel move and Channel Closing transmission time



18. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101199	Jan. 13, 2025 (1Y)
SMBV100A	Rohde & Schwarz	VECTOR SIGNAL GENERATOR	260423	Jan 14, 2025(1Y)
SMB100A	Rohde & Schwarz	SiGNAL GENERATOR	177648	Jan 13, 2025(1Y)
NRP33S	Rohde & Schwarz	3-Path Diode Power Sensor	103230	Jan 06, 2025(1Y)
ESU	Rohde & Schwarz	EMI Test Receiver	100261	Mar. 05, 2025 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 16, 2025 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 02, 2025 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2025 (1Y)
DT3000	Innco System	Turn Table	DT3000/093	N/A
MA4000-EP	Innco System	Antenna Master	MA4000/332/27030611/L	N/A
CO3000	Innco System	Controller	CO3000/904/37211215/L	N/A
HLP-2008	TDK	Hybrid Antenna	131313	Mar. 21, 2025 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jun. 19, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2025 (1Y)
F-40-10.0-RF	RLC Electronis	High Pass Filter (10-18 GHz)	0427	Jan. 15, 2025 (1Y)
8493C	HP	6 dB Attenuator	00997	Jul. 02, 2025 (1Y)
QPD2-0-26500-2-S	Qualwave	Divider	22175075	Jan. 14, 2025 (1Y)
QPD2-0-26500-2-S	Qualwave	Divider	22175076	Jan. 14, 2025 (1Y)
SH-241	ESPEC	Temperature & Humidity Chamber	92009434	Jul. 04, 2025 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Sep. 24, 2025 (1Y)
NSLK8126	Schwarzbeck	V - LISN (4*16/25A)	8126404	Mar. 11, 2025 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 11, 2025 (1Y)

Note. ROG RAPTURE Router(Model : RT-AX88U) Information.

; FCC ID: MSQ-RTAXHP00, IC: 3568A-RTAXHP00

Note. This Device not support TPC Function.

All test equipment used is calibrated on a regular basis.