

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-265-RWD-021
Reception No. : 2604001497
Applicant : MCNEX CO.,LTD
Address : MCNEX Tower, 13-39, Songdogwahak-ro 16 beon-gi, Yeonsu-gu, Incheon, South Korea
Manufacturer : MCNEX CO.,LTD
Address : MCNEX Tower, 13-39, Songdogwahak-ro 16 beon-gi, Yeonsu-gu, Incheon, South Korea
Type of Equipment : 2CH Dashcam
FCC ID : 2ABC6-M8ULTRA
Model Name : M8ULTRA
Multiple Model Name : MD-8500
Serial number : N/A
Total page of Report : 77 pages (including this page)
Date of Incoming : April 09, 2026
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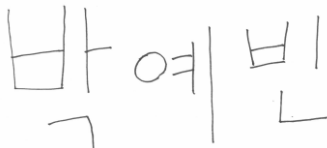
SUMMARY

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-265-RWD-021	May 20, 2026	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : MCNEX CO.,LTD
Address : MCNEX Tower, 13-39, Songdogwahak-ro 16 beon-gi, Yeonsu-gu, Incheon, South Korea
Contact Person : SEUNG JUN RO / Senior Research Engineer
Telephone No. : +82-10-9274-1055
FCC ID : 2ABC6-M8ULTRA
Model Name : M8ULTRA
Brand Name : Momento, / Firstech, LLC
Serial Number : N/A
Date : May 20, 2026

EQUIPMENT CLASS	Unlicensed National Information infrastructure(UNII)
E.U.T. DESCRIPTION	2CH Dashcam
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 & Transmit Power Control(TPC)	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 MCNEX CO.,LTD, Model M8ULTRA (referred to as the EUT in this report) is a 2CH Dashcam. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	2CH Dashcam	
Temperature Range	-20 °C ~ 60 °C	
OPERATING FREQUENCY	WLAN 2.4 GHz	2 412 MHz ~ 2 462 MHz (802.11b/g/n(HT20))
		2 422 MHz ~ 2 452 MHz (802.11n(HT40))
	5 150 MHz ~	5 180 MHz ~ 5 240 MHz (802.11a/n(HT20))
	5 250 MHz Band	5 190 MHz ~ 5 230 MHz (802.11n(HT40))
	5 725 MHz ~	5 745 MHz ~ 5 825 MHz (802.11a/n(HT20))
	5 850 MHz Band	5 755 MHz ~ 5 795 MHz (802.11n(HT40))
MODULATION TYPE	WLAN 2.4 GHz	802.11b: DSSS Modulation(DBPSK/DQPSK/CCK) 802.11g/n(HT20)/n(HT40): OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
	WLAN 5 GHz	802.11a/n(HT20)/n(HT40): OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
RF OUTPUT POWER	WLAN 2.4 GHz	12.80 dBm(802.11b)
		11.39 dBm(802.11g)
		10.23 dBm(802.11n_HT20)
		10.41 dBm(802.11n_HT40)
	5 150 MHz ~	1.85 dBm(802.11a)
	5 250 MHz Band	1.75 dBm(802.11n_HT20)
	(UNII 1)	3.66 dBm(802.11n_HT40)
	5 725 MHz ~	4.78 dBm(802.11a)
	5 850 MHz Band	4.51 dBm(802.11n_HT20)
	(UNII 3)	4.30 dBm(802.11n_HT40)

ANTENNA TYPE	Chip Antenna	
ANTENNA GAIN	WLAN 2.4 GHz	2.23 dBi
	5 150 MHz ~ 5 250 MHz Band	2.79 dBi
	5 725 MHz ~ 5 850 MHz Band	2.79 dBi
List of each Osc. or crystal Freq.(Freq. $\geq$ 1 MHz)		32.768 kHz, 24 MHz, 26 MHz, 27 MHz, 40 MHz
ELECTRICAL RATING		DC 12 V / DC 24 V

3.2 Antenna Configurations

- WLAN 5GHz

Mode	SISO		MIMO [ANT 0 + ANT 1]	
	ANT 0	ANT 1	CDD	SDM
802.11 a	O	X	X	X
802.11 n(HT20)	O	X	X	X
802.11 n(HT40)	O	X	X	X

Note

- 1) O : Support, X : Not Support
- 2) SISO : Single Input Single Output
- 3) MIMO : Multiple Input Multiple Output

Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01 F) 2) e) (iii), f) (ii)

1) CDD : F) 2) f) (ii)

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

2) SDM : F) 2) e) (iii)

$$Directional\ gain = G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})\ dBi$$

Technology	Frequency range (MHz)	ANT 0	ANT 1	MIMO[SDM]	MIMO[CDD]
		Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)
WLAN 5 GHz UNII1	5 150 ~ 5 250	2.79	X	X	X
WLAN 5 GHz UNII3	5 725 ~ 5 850	2.79	X	X	X

Note:

According to Ansi C63.10-2020 Section 14.6.3, the directional gain is calculated using the formula, where N_{ANT} is the total number of antennas used.

$$Directional\ Gain = 10 \cdot \log(((10^{(ANT1\ Gain/20)} + 10^{(ANT2/20)})^2)/N_{ANT}))\ dBi$$

Sample Calculation:

ANT 0 Gain : 4.40 dBi, ANT 2 Gain : 3.20 dBi

$$10 \cdot \log(((10^{(4.40/20)} + 10^{(3.20/20)})^2)/2)) = 6.83\ dBi$$

3.3 Maximum Output Power

Band	Mode	SISO			
		Output Power		E.I.R.P Power	
		Ant 0	Ant 1	Ant 0	Ant 1
		(dBm)	(dBm)	(dBm)	(dBm)
UNII1	802.11a	1.85	-	-	-
	802.11n(HT20)	1.75	-	-	-
	802.11n(HT40)	3.66	-	-	-
UNII3	802.11a	4.78	-	-	-
	802.11n(HT20)	4.51	-	-	-
	802.11n(HT40)	4.30	-	-	-

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

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
M8ULTRA	Basic Model	☒
MD-8500	The model is identical to basic model except for the model name only.	☐

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

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 CAMERA			
Main Board	N/A	N/A	N/A
SUB Board	N/A	N/A	N/A
Camera	N/A	N/A	N/A
Radar Module	N/A	N/A	2AD56HLK-LD2410-P
REAR CAMERA			
Main Board	N/A	N/A	N/A
SUB Board	N/A	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
M8ULTRA	MCNEX CO.,LTD	2CH Dashcam (EUT)	
ZUP36-6	NEMIC-LAMBDA	DC Power Supply	EUT
80XH	Lenovo	Notebook PC	EUT
ADL45WCE	Chicony Product of China F1	AC Adapter	-

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

		Channel	Frequency
802.11 a 802.11 n(HT20)	Band 1	36	5 180
		44	5 220
		48	5 240
	Band 3	149	5 745
		157	5 785
		165	5 825
802.11 n(HT40)	Band 1	38	5 190
		46	5 230
	Band 3	151	5 755
		159	5 795

-. Power Level Setting(Dec)

Mode	Band	Channel No.	Frequency (MHz)	PLS Setting	
				ANT 0	ANT 1
802.11 a	UNII1	36	5 180	11	-
		44	5 220	11	-
		48	5 240	11	-
	UNII3	149	5 745	12	-
		157	5 785	12	-
		165	5 825	12	-
802.11 n (HT20)	UNII1	36	5 180	11	-
		44	5 220	11	-
		48	5 240	11	-
	UNII3	149	5 745	12	-
		157	5 785	12	-
		165	5 825	12	-
802.11 n (HT40)	UNII1	38	5 190	13	-
		46	5 230	13	-
	UNII3	151	5 755	12	-
		159	5 795	12	-

5.4 Worst case configuration and mode

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

1) Conducted test

1. All data rate of operation were investigated and the worst case data rate results are reported.

2) Radiated test

1. All modes of operation were investigated and the worst case configuration results are reported.
2. All Antenna of operation were investigated and the worst case results are reported
 - Mode A : SISO_ANT0, Mode B : SISO_ANT 1 Mode C : Ant 0 + Ant 1(SDM),
Mode D : Ant 0 + Ant 1(CDD)
 - Worst Case : Mode D : Ant 0 + Ant 1(CDD)
3. EUT Axis
 - Radiated Spurious Emissions : Y
 - Radiated Restricted Band Edge : Y
4. All data rate of operation were investigated and the worst case data rate results are reported.
 - 802.11a : 6 Mbps
 - 802.11ac_VHT20 : MCS0
 - 802.11ac_VHT40 : MCS0
 - 802.11ac_VHT80 : MCS0
 - 802.11ax_HE20 : MCS0
 - 802.11ax_HE40 : MCS0
 - 802.11ax_HE80 : MCS0
5. All position of loop antenna were investigated and the test result is a no critical peak found at all Positons.
 - Position: Horizontal, Vertical, Parallel to the ground plane

5.5 Configuration of Test System

Line Conducted Test:

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10: 2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average Measurement Type or modes.

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 EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

In order to find out the max. emission, the relative positions of this EUT was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10: 2020

5.6 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 Chip 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)	1.30
Radiated Disturbance (9 kHz ~ 30 MHz)	3.28
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.10
Radiated Disturbance (18 GHz ~ 40 GHz)	4.62

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

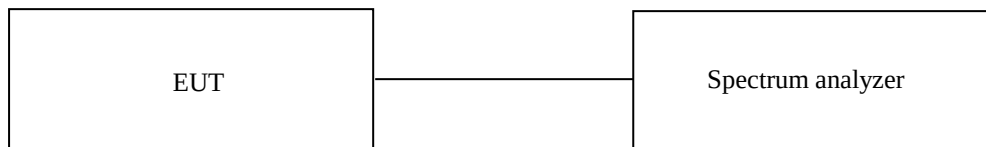
7.3 LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSVA40	Rohde & Schwarz	Signal & Spectrum Analyzer	101593	Jan. 12, 2026 (1Y)
FSVA40	Rohde & Schwarz	Signal & Spectrum Analyzer	101598	Jan. 12, 2026 (1Y)
FSV40-N	Rohde & Schwarz	Signal & Spectrum Analyzer	102196	Jan. 12, 2026 (1Y)
ZUP36-6	NEMIC-LAMBDA	DC Power Supply	1305531	Jan. 12, 2026 (1Y)
GP-4303D	LG Precision Co., Ltd	DC Power Supply	5071069	Jan. 04, 2026 (1Y)
OPM-303D	ODA	DC Power Supply	Oda-01-0923-07199	Jan. 12, 2026 (1Y)
SMB100A	Rohde & Schwarz	SIGNAL GENERATOR	177648	Jan 14, 2026 (1Y)
NRP-Z81	Rohde & Schwarz	Power Sensor	104811	Jan 14, 2026 (1Y)
ESCI	Rohde & Schwarz	Test Receiver	101013	Mar. 11, 2026 (1Y)
ESR	Rohde & Schwarz	Test Receiver	101470	Mar. 11, 2026 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 15, 2025 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 02, 2025 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2026 (1Y)
DT2000-2t	Innco System	Turn Table	N/A	N/A
MA-4640-XPET	Innco System	Antenna Master	MA4640/652/43100318/P	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131314	Mar. 01, 2025 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jun. 19, 2025 (1Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jun. 27, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2026 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 12, 2026 (1Y)
F-40-10.0-RF	RLC Electronis	High Pass Filter(10-18 GHz)	0427	Jan. 13, 2026 (1Y)
8493C	Coaxial Fixed Attenuator (6dB)	HP	01925	Jul. 04, 2025 (1Y)
10 dB Attenuator	Rohde & Schwarz	10 dB Attenuator	14100882-4	Jul. 02, 2025 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Sep. 24, 2025 (1Y)
NSLK8126	Schwarzbeck	V - LISN (4*16/25A)	8126404	Mar. 11, 2026 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 11, 2026 (1Y)

8. DESCRIPTION OF TESTS

8.1 Duty Cycle

1) Test Configuration



2) Test Procedure

We tested according to Procedure B.2 in KDB 789033 D02 v02r01.

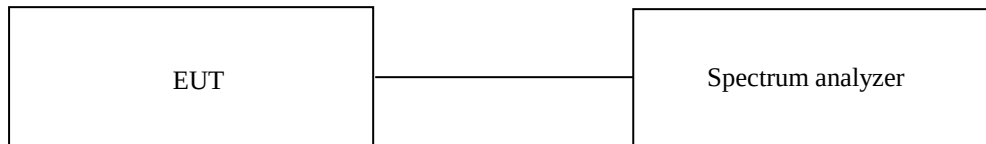
1. RBW = 10 MHz (the largest available value)
2. VBW = 10 MHz ($\geq$ RBW)
3. SPAN = 0 Hz
4. Measurement Type = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2 6 dB Bandwidth & 26 dB Bandwidth

1) Limit

Within the 5.725-5.85 GHz(NII-3) band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

2) Test Configuration



3) Test Procedure

6 dB Bandwidth

We tested according to Procedure C.2 in KDB 789033 D02 v02r01.

1. RBW = 100 kHz
2. VBW $\geq$ 3 x RBW
3. Detector = Peak
4. Trace mode = max hold
5. Allow the trace to stabilize
6. 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 6 dB relative to the maximum lever measured in the fundamental emission.

26 dB Bandwidth

We tested according to Procedure C.1 in KDB 789033 D02 v02r01.

1. RBW = approximately 1 % of the emission bandwidth
2. VBW > RBW
3. Detector = Peak
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

8.3 Output Power Measurement

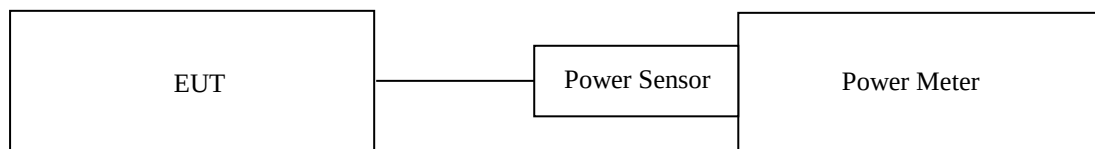
1) Limit

The Output Power limits are as specified in the tables below.

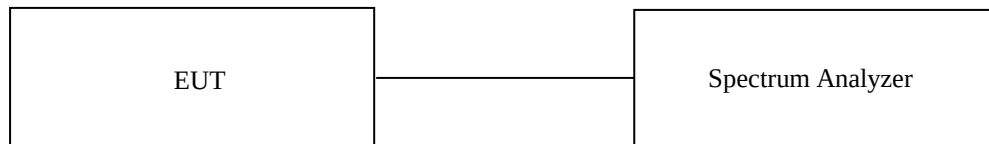
Band	Frequency Range(MHz)	Maximum Conducted Power Limit	Maximum E.I.R.P
		FCC	FCC
UNII 1	5 150 ~ 5 250	-Slave : Not exceed 250 mW(=23.98 dBm)	N/A
UNII 2A	5 250 ~ 5 350	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)	N/A
UNII 2C	5 470 ~ 5 725		
UNII 3	5 725 ~ 5 850	Not exceed 1 W (=30dBm)	N/A

2) Test Configuration

- Power Meter



- Spectrum Analyzer



3) Test Procedure

Power Meter

We tested according to Procedure E.3.a in KDB 789033 D02 v02r01.

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Spectrum Analyzer

We use the spectrum analyzer's integrated band power measurement function.

We tested according to Procedure E.2.d) in KDB 789033 D02 v02r01.

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq$ 2 x span/RBW.
6. Sweep time = auto.
7. Measurement Type or = RMS.
8. Do not use sweep triggering. Allow the sweep to "free run" .
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add $10\log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

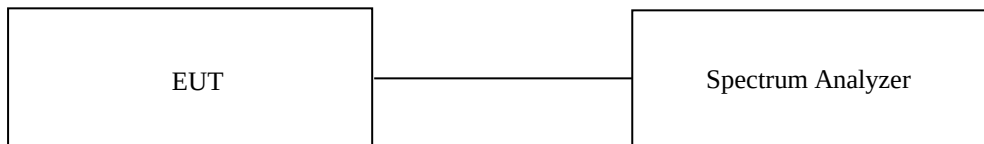
8.4 Power Spectral Density

1) Limit

The Output Power limits are as specified in the tables below.

Band	Frequency Range(MHz)	Power Spectral Density Limits
		FCC
UNII 1	5 150 ~ 5 250	11 dBm/MHz
UNII 2A	5 250 ~ 5 350	
UNII 2C	5 470 ~ 5 725	
UNII 3	5 725 ~ 5 850	30 dBm/500 kHz

2) Test Configuration



3) Test Procedure

We tested according to Procedure F in KDB 789033 D02 v02r01.

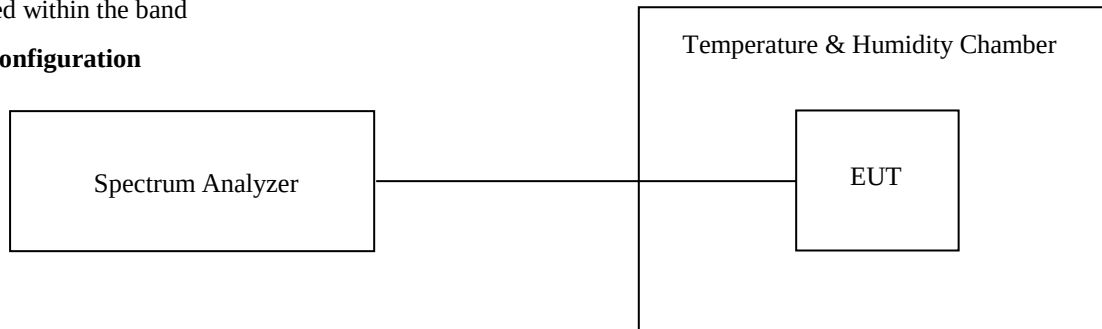
1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(500 kHz for UNII 3)
3. VBW $\geq$ 3 MHz(2 MHz for UNII 3)
4. Number of points in sweep $\geq$ 2 x span/RBW.
5. Sweep time = auto.
6. Measurement Type or = RMS(i.e., power averaging)
7. Trace average at least 100 traces in power averaging(RMS) mode
8. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
9. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the Spectrum.

8.5 Frequency Stability

1) Limit

Maintained within the band

2) Test Configuration



3) Test Procedure

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30°C and 50°C .
2. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85% to 115% of the nominal value for non hand carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.
4. 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.

8.6 AC Power line Conducted Emissions

1) Limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

The limits are as specified in the tables below.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56 ^(a)	56 to 46 ^(a)
0.50 to 5	56	46
5 to 30	60	50

^(a) Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

2) Test Configuration

Setup according to ANSI C63.10:2020, Section 6.2.

Please refer to the attached test photos for the actual connection between the EUT and the supporting equipment.

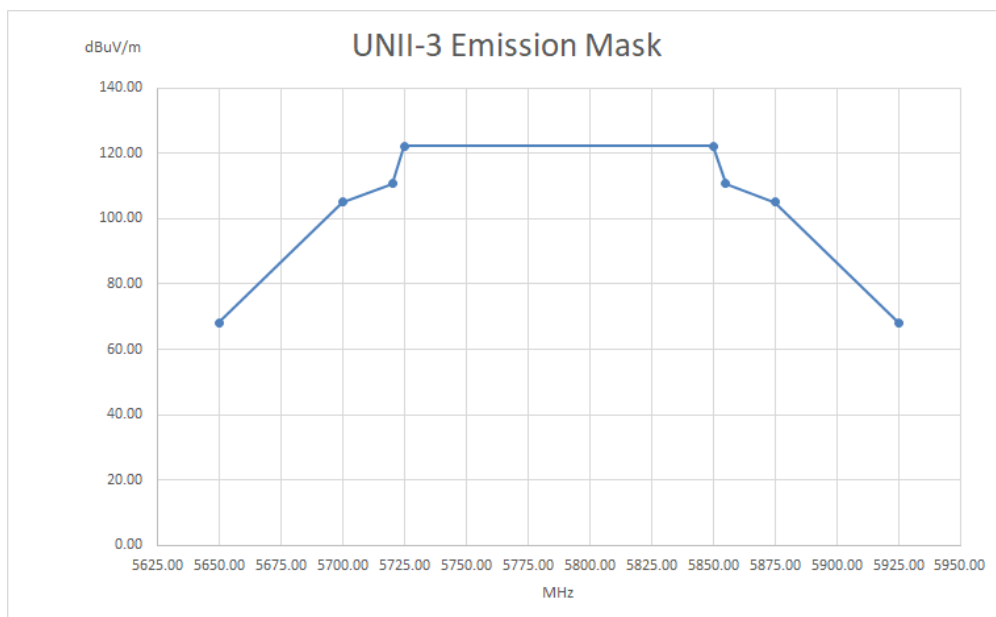
3) Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Measurement Typos: Quasi Peak and Average Measurement Type

8.7 Radiated Test

1) Limit

1. UNII 1: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
2. UNII 2A, 2C: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
3. UNII 3: 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.

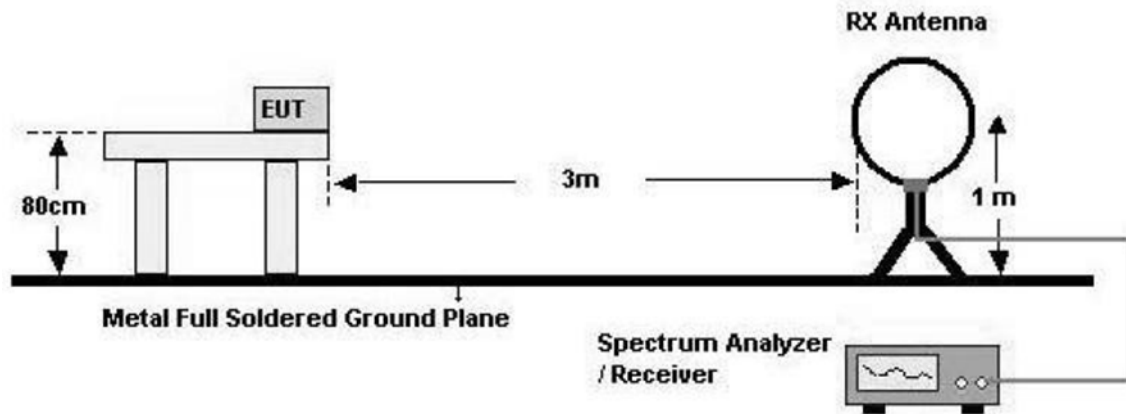


4. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Section 15.209.

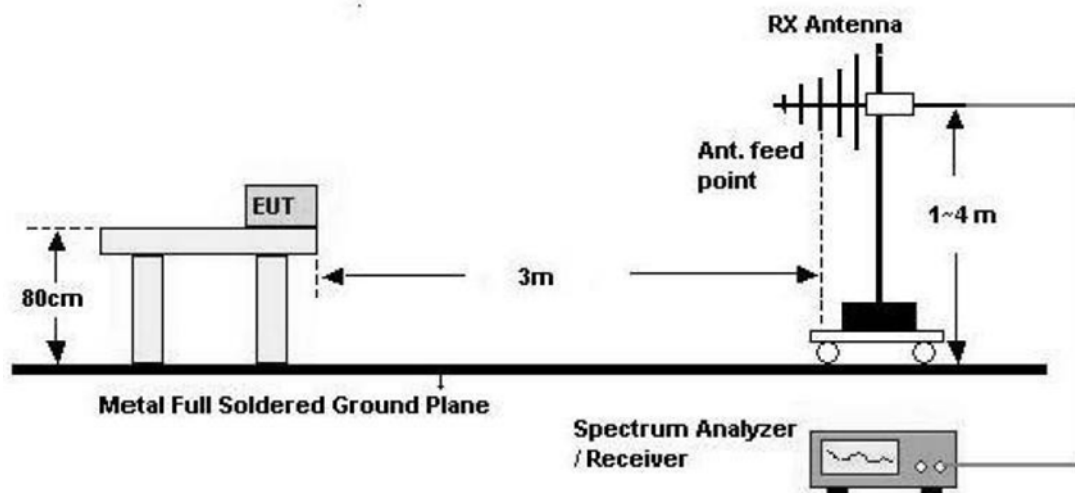
Frequency Range (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 860	200	3
Above 960	500	3

2) Test Configuration

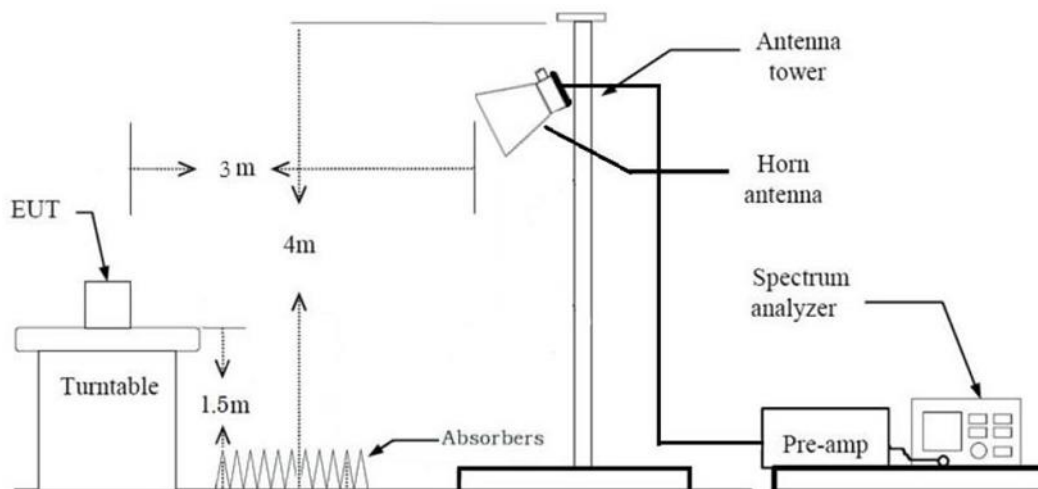
Below 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



3) Test Procedure

Radiated Spurious Emissions(Below 30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz ~ 0.490 MHz) = $40 \cdot \log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz ~ 30 MHz) = $40 \cdot \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$
Measurement Distance : 3 m
8. Spectrum Setting
 - Frequency Range = 9 kHz ~ 30 MHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 9 kHz
 - VBW $\geq 3 \times$ RBW
9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Radiated Spurious Emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
 - 1) Measurement Type(Peak) :
 - Measured Frequency Range : 30 MHz - 1 GHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 100 kHz
 - VBW $\geq$ 3 x RBW
 - 2) Measurement Type(Quasi-peak) :
 - Measured Frequency Range : 30 MHz - 1 GHz
 - Detector = Quasi-Peak
 - RBW = 120 kHz
7. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Radiated Spurious Emissions(Above 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
 - 1) Measurement Type(Peak) : G.5 in KDB 789033 v02r01
 - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = Auto
 - 2) Measurement Type(Method AD – Average Detection) : G.6.c in KDB 789033 v02r01
 - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
 - Detector = RMS(power average)
 - Averaging type = power averaging(RMS)
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging(RMS) mode
7. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
8. Distance extrapolation factor = $20\log(\text{test distance} / \text{specific distance})$ (dB)

Radiated Restricted Band Edge

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
 - 3) Measurement Type(Peak) : G.5 in KDB 789033 v02r01
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = Auto
 - 4) Measurement Type(Method AD – Average Detection) : G.6.c in KDB 789033 v02r01
 - Detector = RMS(power average)
 - Averaging type = power averaging(RMS)
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging(RMS) mode
7. Measured Frequency Range :
 - 1) 4 500 MHz ~ 5 150 MHz
 - 2) 5 350 MHz ~ 5 460 MHz
 - 3) (75 MHz or more below 5 725 MHz) ~ 5 725 MHz
 - 4) 5 850 MHz ~ (75 MHz or more above the 5 850 MHz)
8. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
9. Distance extrapolation factor = $20\log(\text{test distance} / \text{specific distance})$ (dB)

8.8 DYNAMIC FREQUENCY SELECTION

1) Requirements

KDB905462 D02 v02(04/08/2016) the following are the requirements for Client Devices:

1. A Client Device will not transmit before having received appropriate control signals from a Master Device.
2. 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.
3. 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(KDB905462 D02 v02) apply.
4. Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.
5. 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.

2) Limit

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an Aggregate of 60 milliseconds over Remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100 % of the U-NII 99 % transmission Power bandwidth. See Note 3.

Note 1 : Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0.

The measurement timing begins at the end of the Radar Type 0 burst.

Note 2 : The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of

The Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3 : During the U-NII Detection Bandwidth detection test, radar type 0 should be used.

For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed
With no data traffic.

3) DFS detection threshold values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring.

These detection thresholds are listed in the following table.

Maximum Transmit Power	Value
	(See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1 : This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2 : Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

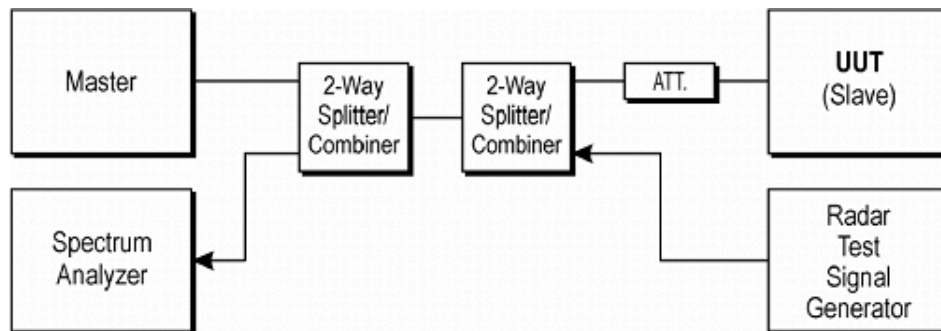
4) DFS Test Signals

As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

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 $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values Randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, 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
Note1: Short pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

5) Test Configuration

- KDB905462 D02 v02 Figure 7-1



6) Test Procedure

The KDB905462 D02 v02 describes a radiated test setup and a conducted test setup.

A Conducted test setup was used for this testing. Figure 7-1 shows the typical test setup.

1. The radar pulse generator is setup to provide a pulse at the frequency that the Master and Client are operating.
A Type 0 radar pulse with a 1 μ s pulse width and a 1428 μ s PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at a level of approximately -62 dBm at the antenna of the Master device.
3. The Client Device (EUT) is set up per the diagram in Figure 3-1 and communications between the Master device and the Client is established.
4. The MPEG file specified by the FCC ("*6½ Magic Hours*") is streamed from the "file computer" through the Master to the Slave Device and played in full motion video using Media Player Classic Ver.6.4.8.6 in order to properly load the network.
5. The spectrum analyzer is set to record about 15 sec window to any transmissions occurring up to and after 10 sec.
6. The system is again setup and the monitoring time is shortened in order to capture the Channel Closing Transmission Time. This time is measured to insure that the Client ceases transmission within 200 ms and the aggregate of emissions occurring after 200 ms up to 10 sec do not exceed 60 ms.
(Note: the channel may be different since the Master and Client have changed channels due to the detection of the initial radar pulse.)
7. After the initial radar burst the channel is monitored for 30 minutes to insure no transmissions or beacons occur.
A second monitoring setup is used to verify that the Master and Client have both moved to different channels.

9. TEST RESULT

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 50 % R.H.

9.2 Test Date

April 09, 2026 ~ May 14, 2026

9.3 DUTY CYCLE

Band	Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
UNII 1	802.11 a	2.0496	0.1484	93.2466	0.30
	802.11 n[HT20]	1.9137	0.1308	93.6008	0.29
	802.11 n[HT40]	0.9157	0.1975	82.2598	0.85
UNII 3	802.11 a	2.0574	0.2120	90.6594	0.43
	802.11 n[HT20]	1.8982	0.2101	90.0366	0.46
	802.11 n[HT40]	0.9373	0.1484	86.3349	0.64

9.4 26 dB Bandwidth

9.4.1 Test data for DC 12 V

Mode: 802.11 a				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 180	21.63	-
	44	5 220	19.58	-
	48	5 240	19.33	-
UNII 3	149	5 745	19.83	-
	157	5 785	19.63	-
	165	5 825	19.28	-

Mode: 802.11 n(HT20)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 180	20.23	-
	44	5 220	20.13	-
	48	5 240	20.13	-
UNII 3	149	5 745	20.03	-
	157	5 785	20.13	-
	165	5 825	20.33	-

Mode: 802.11 n(HT40)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 190	38.26	-
	48	5 230	38.36	-
UNII 3	149	5 755	38.36	-
	157	5 795	38.26	-

9.4.2 Test data for DC 24 V

Mode: 802.11 a				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 180	19.53	-
	44	5 220	20.23	-
	48	5 240	19.38	-
UNII 3	149	5 745	19.68	-
	157	5 785	19.28	-
	165	5 825	19.23	-

Mode: 802.11 n[HT20]				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 180	20.33	-
	44	5 220	20.18	-
	48	5 240	19.88	-
UNII 3	149	5 745	20.38	-
	157	5 785	20.08	-
	165	5 825	20.28	-

Mode: 802.11 n[HT40]				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			26 dB Bandwidth (MHz)	26 dB Bandwidth (MHz)
UNII 1	36	5 190	38.56	-
	48	5 230	38.16	-
UNII 3	149	5 755	38.16	-
	157	5 795	38.36	-

9.5 6 dB Bandwidth

9.5.1 Test data for DC 12 V

Mode: 802.11 a				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 745	15.13	-
	157	5 785	15.13	-
	165	5 825	15.13	-

Mode: 802.11 n(HT20)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 745	15.13	-
	157	5 785	15.13	-
	165	5 825	15.13	-

Mode: 802.11 n(HT40)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 755	32.57	-
	157	5 795	34.96	-

9.5.2 Test data for DC 24 V

Mode: 802.11 a				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 745	15.13	-
	157	5 785	15.13	-
	165	5 825	15.13	-

Mode: 802.11 n(HT20)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 745	15.13	-
	157	5 785	15.13	-
	165	5 825	15.13	-

Mode: 802.11 n(HT40)				
Band	CHANNEL	FREQUENCY (MHz)	ANT 0	ANT 1
			6 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
UNII 3	149	5 755	32.47	-
	157	5 795	35.06	-

9.6 MAXIMUM CONDUCTED OUTPUT POWER

- Total Value [dBm] = Measured Value [dBm] + Duty Cycle Factor [dB]
- Margin [dB] = Limit – Total Value
- MIMO Total Value[dBm] = ANT 0 Total value [dBm] + ANT 1 Total Value [dBm]
- Calculated Output Power= $10\log(10(\text{Antenna 0 Output Power}/10) + 10(\text{Antenna 1 Output Power}/10))$
- E.I.R.P [dBm] = Total Power [dBm] + Antenna Gain [dBi]
- Please refer to the table below for the applied antenna gain.

Band	ANT 0	ANT 1	MIMO
	Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)
UNII1	2.79	-	-
UNII3	2.79	-	-

9.6.1 Test data for DC 12 V

Mode: 802.11 a									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	36	5 180	1.05	0.300	1.35	-	-	24.00	22.65
	44	5 220	1.37	0.300	1.67	-	-	24.00	22.33
	48	5 240	1.40	0.300	1.70	-	-	24.00	22.30
UNII 3	149	5 745	3.99	0.430	4.42	-	-	24.00	19.58
	157	5 785	3.88	0.430	4.31	-	-	24.00	19.69
	165	5 825	4.28	0.430	4.71	-	-	24.00	19.29

Mode: 802.11 n(HT20)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	36	5 180	0.93	0.290	1.22	-	-	24.00	22.78
	44	5 220	1.22	0.290	1.51	-	-	24.00	22.49
	48	5 240	1.21	0.290	1.50	-	-	24.00	22.50
UNII 3	149	5 745	3.73	0.460	4.19	-	-	24.00	19.81
	157	5 785	3.63	0.460	4.09	-	-	24.00	19.91
	165	5 825	4.01	0.460	4.47	-	-	24.00	19.53

Mode: 802.11 n(HT40)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	38	5 190	2.58	0.850	3.43	-	-	24.00	20.57
	46	5 230	2.76	0.850	3.61	-	-	24.00	20.39
UNII 3	151	5 755	3.53	0.640	4.17	-	-	30.00	25.83
	159	5 795	3.56	0.640	4.20	-	-	30.00	25.80

9.6.2 Test data for DC 24 V

Mode: 802.11 a									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	36	5 180	1.13	0.300	1.43	-	-	24.00	22.57
	44	5 220	1.41	0.300	1.71	-	-	24.00	22.29
	48	5 240	1.55	0.300	1.85	-	-	24.00	22.15
UNII 3	149	5 745	3.86	0.430	4.29	-	-	24.00	19.71
	157	5 785	3.94	0.430	4.37	-	-	24.00	19.63
	165	5 825	4.35	0.430	4.78	-	-	24.00	19.22

Mode: 802.11 n(HT20)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	36	5 180	1.11	0.290	1.40	-	-	24.00	22.60
	44	5 220	1.30	0.290	1.59	-	-	24.00	22.41
	48	5 240	1.46	0.290	1.75	-	-	24.00	22.25
UNII 3	149	5 745	3.81	0.460	4.27	-	-	24.00	19.73
	157	5 785	3.74	0.460	4.20	-	-	24.00	19.80
	165	5 825	4.05	0.460	4.51	-	-	24.00	19.49

Mode: 802.11 n(HT40)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(dB)
UNII I	38	5 190	2.64	0.850	3.49	-	-	24.00	20.51
	46	5 230	2.81	0.850	3.66	-	-	24.00	20.34
UNII 3	151	5 755	3.66	0.640	4.30	-	-	30.00	25.70
	159	5 795	3.49	0.640	4.13	-	-	30.00	25.87

9.7 PEAK POWER SPECTRAL DENSITY

- Total Value [dBm/MHz] = Measured Value [dBm/MHz] + Duty Cycle Factor [dB]
- Margin [dB] = Limit – Total Value
- MIMO Total Value[dBm/MHz] = ANT 0 Total value [dBm/MHz] + ANT 1 Total Value [dBm/MHz]
- Calculated Output Power= $10\log(10(\text{Antenna 0 Output Power}/10) + 10(\text{Antenna 1 Output Power}/10))$
- E.I.R.P [dBm/MHz] = Total Power [dBm/MHz] + Antenna Gain [dBi]
- Please refer to the table below for the applied antenna gain.

Band	ANT 0	ANT 1	MIMO
	Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)
UNII1	2.79	-	-
UNII3	2.79	-	-

9.7.1 Test data for DC 12 V

Mode: 802.11 a									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	36	5 180	-8.70	0.300	-8.40	-	-	11.00	19.40
	44	5 220	-8.10	0.300	-7.80	-	-	11.00	18.80
	48	5 240	-7.66	0.300	-7.36	-	-	11.00	18.36
UNII 3	149	5 745	-9.41	0.430	-8.98	-	-	30.00	38.98
	157	5 785	-9.57	0.430	-9.14	-	-	30.00	39.14
	165	5 825	-8.98	0.430	-8.55	-	-	30.00	38.55

Mode: 802.11 n(HT20)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	36	5 180	-10.11	0.290	-9.82	-	-	11.00	20.82
	44	5 220	-9.28	0.290	-8.99	-	-	11.00	19.99
	48	5 240	-9.21	0.290	-8.92	-	-	11.00	19.92
UNII 3	149	5 745	-9.61	0.460	-9.15	-	-	30.00	39.15
	157	5 785	-9.90	0.460	-9.44	-	-	30.00	39.44
	165	5 825	-9.70	0.460	-9.24	-	-	30.00	39.24

Mode: 802.11 n(HT40)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	38	5 190	-11.12	0.850	-10.27	-	-	11.00	21.27
	46	5 230	-10.51	0.850	-9.66	-	-	11.00	20.66
UNII 3	151	5 755	-13.21	0.640	-12.57	-	-	30.00	42.57
	159	5 795	-13.02	0.640	-12.38	-	-	30.00	42.38

9.7.2 Test data for DC 24 V

Mode: 802.11 a									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	36	5 180	-8.89	0.300	-8.59	-	-	11.00	19.59
	44	5 220	-8.22	0.300	-7.92	-	-	11.00	18.92
	48	5 240	-8.09	0.300	-7.79	-	-	11.00	18.79
UNII 3	149	5 745	-9.04	0.430	-8.61	-	-	30.00	38.61
	157	5 785	-9.67	0.430	-9.24	-	-	30.00	39.24
	165	5 825	-8.71	0.430	-8.28	-	-	30.00	38.28

Mode: 802.11 n(HT20)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	36	5 180	-10.44	0.290	-10.15	-	-	11.00	21.15
	44	5 220	-9.62	0.290	-9.33	-	-	11.00	20.33
	48	5 240	-9.31	0.290	-9.02	-	-	11.00	20.02
UNII 3	149	5 745	-9.51	0.460	-9.05	-	-	30.00	39.05
	157	5 785	-9.92	0.460	-9.46	-	-	30.00	39.46
	165	5 825	-9.55	0.460	-9.09	-	-	30.00	39.09

Mode: 802.11 n(HT40)									
Band	Channel	Frequency	Measured Value	Duty Factor	Total Value	Antenna Gain	EIRP	Limit	Margin
		(MHz)	(dBm/MHz or dBm/500 kHz)	(dB)	(dBm/MHz or dBm/500 kHz)	(dBi)	(dBm/MHz or dBm/500 kHz)	(dBm/MHz or dBm/500 kHz)	(dB)
UNII I	38	5 190	-11.48	0.850	-10.63	-	-	11.00	21.63
	46	5 230	-9.85	0.850	-9.00	-	-	11.00	20.00
UNII 3	151	5 755	-13.18	0.640	-12.54	-	-	30.00	42.54
	159	5 795	-12.71	0.640	-12.07	-	-	30.00	42.07

9.8 FREQUENCY STABILITY

9.8.1 Test data for TEMPERATURE VARIATION

Test Data for U-NII-1, 12 V

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 180 000 000	5 180 050 000	50 000
-10		5 180 049 500	49 500
0		5 180 050 000	50 000
10		5 180 074 500	74 500
20		5 180 010 900	10 900
30		5 180 020 350	20 350
40		5 179 900 500	- 99 500
50		5 179 950 000	- 50 000
60		5 179 975 500	- 24 500
-20	5 220 000 000	5 220 024 500	24 500
-10		5 220 025 000	25 000
0		5 220 099 500	99 500
10		5 220 025 800	25 800
20		5 220 049 500	49 500
30		5 220 049 500	49 500
40		5 219 975 000	- 25 000
50		5 219 975 000	- 25 000
60		5 219 975 000	- 25 000
-20	5 240 000 000	5 240 050 000	50 000
-10		5 240 025 000	25 000
0		5 240 025 000	25 000
10		5 240 049 500	49 500
20		5 240 074 500	74 500
30		5 240 020 300	20 300
40		5 239 925 000	- 75 000
50		5 239 950 000	- 50 000
60		5 239 950 000	- 50 000

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)

Test Data for U-NII-1, 24 V

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 180 000 000	5 180 048 500	48 500
-10		5 180 049 850	49 850
0		5 180 051 100	51 100
10		5 180 081 500	81 500
20		5 180 011 510	11 510
30		5 180 021 850	21 850
40		5 179 910 050	- 89 950
50		5 179 945 000	- 55 000
60		5 179 974 800	- 25 200
-20	5 220 000 000	5 220 023 580	23 580
-10		5 220 024 500	24 500
0		5 220 098 000	98 000
10		5 220 268 400	268 400
20		5 220 053 050	53 050
30		5 220 049 500	49 500
40		5 219 975 000	- 25 000
50		5 219 980 000	- 20 000
60		5 219 974 000	- 26 000
-20	5 240 000 000	5 240 059 500	59 500
-10		5 240 026 500	26 500
0		5 240 024 900	24 900
10		5 240 048 900	48 900
20		5 240 073 500	73 500
30		5 240 021 200	21 200
40		5 239 975 000	- 25 000
50		5 239 945 800	- 54 200
60		5 239 950 000	- 50 000

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)

Test Data for U-NII3, 12 V

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 745 000 000	5 745 099 500	99 500
-10		5 745 050 000	50 000
0		5 745 025 000	25 000
10		5 744 975 000	- 25 000
20		5 744 975 500	- 24 500
30		5 744 950 000	- 50 000
40		5 744 971 850	- 28 150
50		5 744 950 000	- 50 000
60		5 744 900 500	- 99 500
-20	5 785 000 000	5 785 025 000	25 000
-10		5 785 050 000	50 000
0		5 785 058 600	58 600
10		5 785 049 500	49 500
20		5 784 950 000	- 50 000
30		5 784 975 000	- 25 000
40		5 784 975 000	- 25 000
50		5 784 950 000	- 50 000
60		5 784 900 500	- 99 500
-20	5 825 000 000	5 825 074 500	74 500
-10		5 825 050 000	50 000
0		5 825 025 000	25 000
10		5 824 975 000	- 25 000
20		5 824 996 900	- 3 100
30		5 824 980 500	- 19 500
40		5 824 950 000	- 50 000
50		5 824 950 000	- 50 000
60		5 824 925 500	- 74 500

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)

Test Data for U-NII3, 24 V

Temperature (°C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
-20	5 745 000 000	5 745 098 580	98 580
-10		5 745 049 500	49 500
0		5 745 022 500	22 500
10		5 744 981 500	- 18 500
20		5 744 978 500	- 21 500
30		5 744 986 500	- 13 500
40		5 744 983 500	- 16 500
50		5 744 945 500	- 54 500
60		5 744 912 500	- 87 500
-20	5 785 000 000	5 785 023 200	23 200
-10		5 785 065 000	65 000
0		5 785 057 950	57 950
10		5 785 050 600	50 600
20		5 784 945 800	- 54 200
30		5 784 976 500	- 23 500
40		5 784 975 000	- 25 000
50		5 784 950 840	- 49 160
60		5 784 910 000	- 90 000
-20	5 825 000 000	5 825 074 500	74 500
-10		5 825 051 000	51 000
0		5 825 030 500	30 500
10		5 824 975 450	- 24 550
20		5 824 991 680	- 8 320
30		5 824 980 500	- 19 500
40		5 824 950 500	- 49 500
50		5 824 910 000	- 90 000
60		5 824 971 000	- 29 000

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)

9.8.2 Test data for TEMPERATURE VARIATION

Test Data for U-NII1, 12 V

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.25	5 180 000 000	5 180 015 100	15 100
5.00		5 180 010 900	10 900
5.75		5 180 011 590	11 590
4.25	5 220 000 000	5 220 048 950	48 950
5.00		5 220 049 500	49 500
5.75		5 220 049 100	49 100
4.25	5 240 000 000	5 240 073 800	73 800
5.00		5 240 074 500	74 500
5.75		5 240 074 400	74 400

Test Data for U-NII1, 24 V

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.25	5 180 000 000	5 180 011 490	11 490
5.00		5 180 011 510	11 510
5.75		5 180 011 510	11 510
4.25	5 220 000 000	5 220 053 200	53 200
5.00		5 220 053 050	53 050
5.75		5 220 054 180	54 180
4.25	5 240 000 000	5 240 074 250	74 250
5.00		5 240 073 500	73 500
5.75		5 240 073 800	73 800

Test Data for U-NII3, 12 V

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.25	5 745 000 000	5 744 975 450	- 24 550
5.00		5 744 975 500	- 24 500
5.75		5 744 975 680	- 24 320
4.25	5 785 000 000	5 784 950 110	- 49 890
5.00		5 784 950 000	- 50 000
5.75		5 784 950 250	- 49 750
4.25	5 825 000 000	5 824 997 050	- 2 950
5.00		5 824 996 900	- 3 100
5.75		5 824 996 560	- 3 440

Test Data for U-NII3, 24 V

Voltage (VDC)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Frequency Error (Hz)
4.25	5 745 000 000	5 744 978 050	- 21 950
5.00		5 744 978 500	- 21 500
5.75		5 744 978 400	- 21 600
4.25	5 785 000 000	5 784 915 000	- 85 000
5.00		5 784 945 800	- 54 200
5.75		5 784 941 050	- 58 950
4.25	5 825 000 000	5 824 991 740	- 8 260
5.00		5 824 991 680	- 8 320
5.75		5 824 991 650	- 8 350

9.9 RADIATED SPURIOUS EMISSIONS

9.9.1 Frequency Range: Below 30 MHz

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)
No Critical peaks found									

-. 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

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

9.9.2 Frequency Range: Below 1 GHz

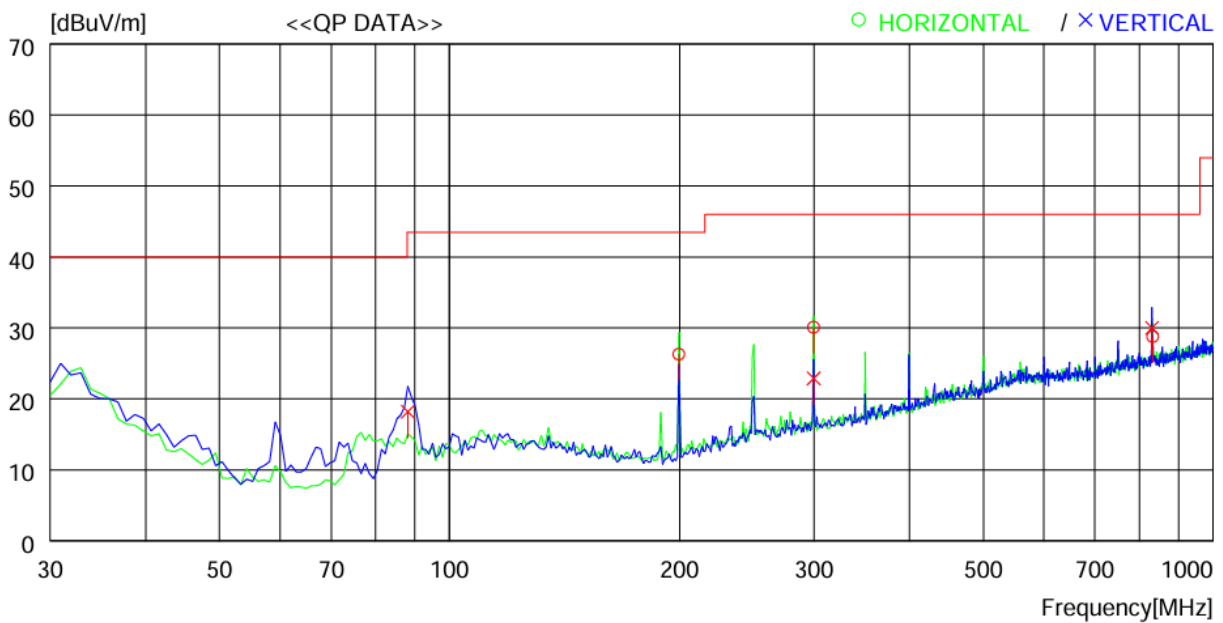
9.9.2.1 Test data for DC 12 V

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

Result : PASSED

EUT : 2CH Dashcam

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	199.750	40.5	15.2	3.0	32.4	26.3	43.5	17.2	142	359
2	299.660	39.6	19.1	3.7	32.3	30.1	46.0	15.9	185	359
3	833.151	28.4	26.2	6.2	32.0	28.8	46.0	17.2	255	134
----- Vertical -----										
4	88.200	34.5	14.2	2.0	32.5	18.2	43.5	25.3	350	6
5	299.660	32.4	19.1	3.7	32.3	22.9	46.0	23.1	300	249
6	831.211	29.6	26.2	6.2	32.0	30.0	46.0	16.0	100	329

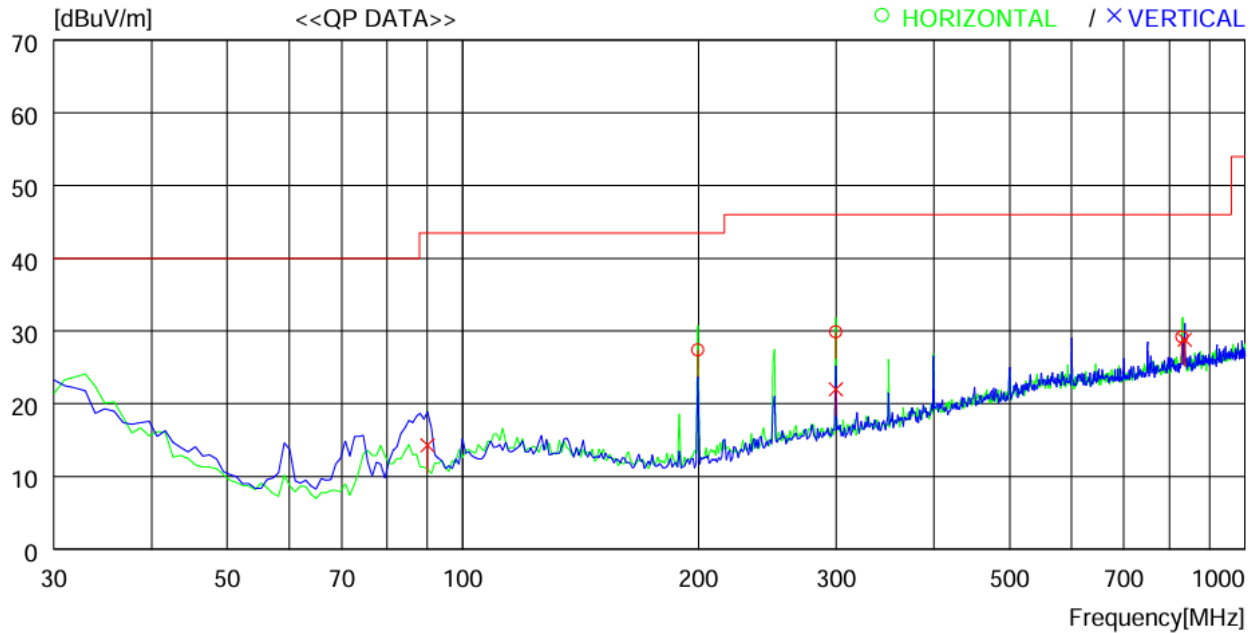
9.9.2.2 Test data for DC 24 V

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

Result : PASSED

EUT : 2CH Dashcam

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



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	199.750	41.6	15.2	3.0	32.4	27.4	43.5	16.1	150	359
2	299.660	39.4	19.1	3.7	32.3	29.9	46.0	16.1	140	359
3	830.241	28.8	26.2	6.2	32.0	29.2	46.0	16.8	153	359
----- Vertical -----										
4	90.140	30.2	14.6	2.0	32.5	14.3	43.5	29.2	315	0
5	299.660	31.5	19.1	3.7	32.3	22.0	46.0	24.0	220	359
6	837.031	28.4	26.2	6.2	32.0	28.8	46.0	17.2	400	359

9.9.3 Frequency Range Above 1 GHz

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

- Margin (dB) = Limits (dB μ V/m) - Emission Level (dB μ V/m)

- D.F (dB) = Duty Factor(dB)

9.9.3.1 Test data for UNII1_DC 12 V

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 36		Frequency(MHz)		5 180			RU offset	-	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
10 360.100	54.22	Peak	H	38.94	9.91	42.77	-	60.30	68.20	7.90
10 347.210	50.52	Peak	V	38.89	10.00	42.76	-	56.65	68.20	11.55

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 44		Frequency(MHz)		5 220			RU offset	-	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
10 436.550	54.50	Peak	H	39.10	9.91	42.77	-	60.74	68.20	7.46
10 453.790	50.92	Peak	V	39.11	10.18	42.78	-	57.43	68.20	10.77

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 48		Frequency(MHz)		5 240			RU offset	-	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
10 484.350	52.72	Peak	H	39.17	10.18	42.78	-	59.29	68.20	8.91
10 456.720	50.61	Peak	V	39.11	10.18	42.78	-	57.12	68.20	11.08

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 36		Frequency(MHz)		5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 358.450	55.20	Peak	H	38.93	9.91	42.77	-	61.27	68.20	6.93
10 346.560	51.04	Peak	V	38.89	10.00	42.76	-	57.17	68.20	11.03

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 44		Frequency(MHz)		5 220			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 442.950	51.89	Peak	H	39.10	9.91	42.77	-	58.13	68.20	10.07
10 444.100	50.97	Peak	V	39.10	9.91	42.77	-	57.21	68.20	10.99

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 48		Frequency(MHz)		5 240			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 481.250	54.23	Peak	H	39.16	10.18	42.78	-	60.79	68.20	7.41
10 498.030	50.62	Peak	V	39.20	10.18	42.78	-	57.22	68.20	10.98

Band	UNII1		Mode		802.11n(HT40)			Tone	-	
Channel	CH 38		Frequency(MHz)		5 190			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 386.190	52.46	Peak	H	39.04	9.91	42.77	-	58.64	68.20	9.56
10 383.300	50.84	Peak	V	39.03	9.91	42.77	-	57.01	68.20	11.19

Band	UNII1		Mode		802.11n(HT40)			Tone	-	
Channel	CH 48		Frequency(MHz)		5 230			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 460.100	54.44	Peak	H	39.12	10.18	42.78	-	60.96	68.20	7.24
10 457.600	51.85	Peak	V	39.12	10.18	42.78	-	58.37	68.20	9.83

9.9.3.2 Test data for UNII3_DC 12 V

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 149		Frequency(MHz)		5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 488.000	53.29	Peak	H	39.60	10.33	42.81	-	60.41	74.00	13.59
11 488.800	40.55	Average	H	39.60	10.33	42.81	0.43	48.10	54.00	5.90
11 454.240	50.00	Peak	V	39.60	10.33	42.81	-	57.12	74.00	16.88
11 539.350	38.10	Average	V	39.60	10.33	42.81	0.43	45.65	54.00	8.35

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 157		Frequency(MHz)		5 785			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 568.600	54.50	Peak	H	39.53	10.31	42.81	-	61.53	74.00	12.47
11 569.800	41.89	Average	H	39.52	10.31	42.81	0.43	49.34	54.00	4.66
11 556.010	50.23	Peak	V	39.58	10.31	42.81	-	57.31	74.00	16.69
11 555.510	38.49	Average	V	39.58	10.31	42.81	0.43	46.00	54.00	8.00

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 165		Frequency(MHz)		5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 657.790	54.27	Peak	H	39.27	10.45	42.81	-	61.18	74.00	12.82
11 651.300	42.37	Average	H	39.29	10.45	42.81	0.43	49.73	54.00	4.27
11 663.890	50.15	Peak	V	39.24	10.45	42.81	-	57.03	74.00	16.97
11 664.390	38.55	Average	V	39.24	10.45	42.81	0.43	45.86	54.00	8.14

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 149		Frequency(MHz)		5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 448.640	50.60	Peak	H	39.60	10.37	42.81	-	57.76	74.00	16.24
11 470.420	38.62	Average	H	39.60	10.33	42.81	0.46	46.20	54.00	7.80
11 490.600	49.85	Peak	V	39.60	10.33	42.81	-	56.97	74.00	17.03
11 539.650	38.28	Average	V	39.60	10.33	42.81	0.46	45.86	54.00	8.14

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 157		Frequency(MHz)		5 785			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 619.950	50.78	Peak	H	39.36	10.31	42.81	-	57.64	74.00	16.36
11 560.010	38.90	Average	H	39.56	10.31	42.81	0.46	46.42	54.00	7.58
11 569.700	50.89	Peak	V	39.52	10.31	42.81	-	57.91	74.00	16.09
11 563.910	38.67	Average	V	39.54	10.31	42.81	0.46	46.17	54.00	7.83

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 165		Frequency(MHz)		5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 665.580	50.69	Peak	H	39.24	10.45	42.81	-	57.57	74.00	16.43
11 636.110	38.90	Average	H	39.33	10.31	42.81	0.46	46.19	54.00	7.81
11 671.080	50.75	Peak	V	39.22	10.45	42.81	-	57.61	74.00	16.39
11 653.500	38.75	Average	V	39.29	10.45	42.81	0.46	46.14	54.00	7.86

Band	UNII3		Mode		802.11n(HT40)			Tone	-	
Channel	CH 151		Frequency(MHz)		5 755			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 492.620	50.72	Peak	H	39.60	10.33	42.81	-	57.84	74.00	16.16
11 559.550	38.73	Average	H	39.56	10.31	42.81	0.64	46.43	54.00	7.57
11 551.160	50.20	Peak	V	39.60	10.31	42.81	-	57.30	74.00	16.70
11 557.250	38.67	Average	V	39.57	10.31	42.81	0.64	46.38	54.00	7.62

Band	UNII3		Mode		802.11n(HT40)			Tone	-	
Channel	CH 159		Frequency(MHz)		5 795			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 588.000	51.47	Peak	H	39.45	10.31	42.81	-	58.42	74.00	15.58
11 588.800	40.39	Average	H	39.44	10.31	42.81	0.64	47.97	54.00	6.03
11 600.390	50.84	Peak	V	39.40	10.31	42.81	-	57.74	74.00	16.26
11 586.400	38.81	Average	V	39.45	10.31	42.81	0.64	46.40	54.00	7.60

9.9.3.3 Test data for UNII1_DC 24 V

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 36		Frequency(MHz)		5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 348.360	51.76	Peak	H	38.90	10.00	42.76	-	57.90	68.20	10.30
10 360.850	51.42	Peak	V	38.94	9.91	42.77	-	57.50	68.20	10.70

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 44		Frequency(MHz)		5 220			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 442.000	54.23	Peak	H	39.10	9.91	42.77	-	60.47	68.20	7.73
10 430.610	51.28	Peak	V	39.10	9.91	42.77	-	57.52	68.20	10.68

Band	UNII1		Mode		802.11a			Tone	-	
Channel	CH 48		Frequency(MHz)		5 240			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 471.710	54.09	Peak	H	39.14	10.18	42.78	-	60.63	68.20	7.57
10 486.840	52.28	Peak	V	39.17	10.18	42.78	-	58.85	68.20	9.35

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 36		Frequency(MHz)		5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 352.660	56.02	Peak	H	38.91	9.91	42.77	-	62.07	68.20	6.13
10 341.170	50.78	Peak	V	38.88	10.00	42.76	-	56.90	68.20	11.30

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 44		Frequency(MHz)		5 220			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 444.050	55.04	Peak	H	39.10	9.91	42.77	-	61.28	68.20	6.92
10 447.340	51.04	Peak	V	39.10	9.91	42.77	-	57.28	68.20	10.92

Band	UNII1		Mode		802.11n(HT20)			Tone	-	
Channel	CH 48		Frequency(MHz)		5 240			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 480.900	54.18	Peak	H	39.16	10.18	42.78	-	60.74	68.20	7.46
10 471.510	51.12	Peak	V	39.14	10.18	42.78	-	57.66	68.20	10.54

Band	UNII1		Mode		802.11n(HT40)			Tone	-	
Channel	CH 38		Frequency(MHz)		5 190			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 362.620	51.84	Peak	H	38.95	9.91	42.77	-	57.93	68.20	10.27
10 393.490	50.75	Peak	V	39.07	9.91	42.77	-	56.96	68.20	11.24

Band	UNII1		Mode		802.11n(HT40)			Tone	-	
Channel	CH 48		Frequency(MHz)		5 230			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
10 466.990	52.21	Peak	H	39.13	10.18	42.78	-	58.74	68.20	9.46
10 471.290	51.63	Peak	V	39.14	10.18	42.78	-	58.17	68.20	10.03

9.9.3.4 Test data for UNII3_DC 24 V

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 149		Frequency(MHz)		5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 496.390	51.98	Peak	H	39.60	10.33	42.81	-	59.10	74.00	14.90
11 486.700	40.05	Average	H	39.60	10.33	42.81	0.43	47.60	54.00	6.40
11 534.760	50.67	Peak	V	39.60	10.33	42.81	-	57.79	74.00	16.21
11 534.960	38.44	Average	V	39.60	10.33	42.81	0.43	45.99	54.00	8.01

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 157		Frequency(MHz)		5 785			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 565.700	53.85	Peak	H	39.54	10.31	42.81	-	60.89	74.00	13.11
11 568.400	42.03	Average	H	39.53	10.31	42.81	0.43	49.49	54.00	4.51
11 613.760	51.05	Peak	V	39.37	10.31	42.81	-	57.92	74.00	16.08
11 577.590	38.90	Average	V	39.49	10.31	42.81	0.43	46.32	54.00	7.68

Band	UNII3		Mode		802.11a			Tone	-	
Channel	CH 165		Frequency(MHz)		5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 647.500	54.65	Peak	H	39.31	10.31	42.81	-	61.46	74.00	12.54
11 649.100	42.83	Average	H	39.30	10.31	42.81	0.43	50.06	54.00	3.94
11 660.090	50.67	Peak	V	39.26	10.45	42.81	-	57.57	74.00	16.43
11 633.020	38.87	Average	V	39.33	10.31	42.81	0.43	46.13	54.00	7.87

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 149		Frequency(MHz)		5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 496.490	52.50	Peak	H	39.60	10.33	42.81	-	59.62	74.00	14.38
11 487.700	41.10	Average	H	39.60	10.33	42.81	0.46	48.68	54.00	5.32
11 524.070	50.27	Peak	V	39.60	10.33	42.81	-	57.39	74.00	16.61
11 533.160	38.45	Average	V	39.60	10.33	42.81	0.46	46.03	54.00	7.97

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 157		Frequency(MHz)		5 785			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 571.200	53.83	Peak	H	39.52	10.31	42.81	-	60.85	74.00	13.15
11 570.600	41.87	Average	H	39.52	10.31	42.81	0.46	49.35	54.00	4.65
11 598.070	50.41	Peak	V	39.41	10.31	42.81	-	57.32	74.00	16.68
11 576.590	38.88	Average	V	39.49	10.31	42.81	0.46	46.33	54.00	7.67

Band	UNII3		Mode		802.11n(HT20)			Tone	-	
Channel	CH 165		Frequency(MHz)		5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 650.000	53.69	Peak	H	39.30	10.45	42.81	-	60.63	74.00	13.37
11 649.500	41.99	Average	H	39.30	10.31	42.81	0.46	49.25	54.00	4.75
11 642.010	51.11	Peak	V	39.32	10.31	42.81	-	57.93	74.00	16.07
11 646.300	38.96	Average	V	39.31	10.31	42.81	0.46	46.23	54.00	7.77

Band	UNII3		Mode		802.11n(HT40)			Tone	-	
Channel	CH 151		Frequency(MHz)		5 755			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 545.360	50.99	Peak	H	39.60	10.33	42.81	-	58.11	74.00	15.89
11 555.750	38.63	Average	H	39.58	10.31	42.81	0.64	46.35	54.00	7.65
11 538.070	50.45	Peak	V	39.60	10.33	42.81	-	57.57	74.00	16.43
11 553.960	38.63	Average	V	39.58	10.31	42.81	0.64	46.35	54.00	7.65

Band	UNII3		Mode		802.11n(HT40)			Tone	-	
Channel	CH 159		Frequency(MHz)		5 795			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
11 593.100	53.03	Peak	H	39.43	10.31	42.81	-	59.96	74.00	14.04
11 591.700	40.73	Average	H	39.43	10.31	42.81	0.64	48.30	54.00	5.70
11 551.640	50.78	Peak	V	39.59	10.31	42.81	-	57.87	74.00	16.13
11 574.820	38.83	Average	V	39.50	10.31	42.81	0.64	46.47	54.00	7.53

9.10 RADIATED RESTRICTED BAND EDGE

- Remark: "H": Horizontal, "V": Vertical
- Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m)
- D.F (dB) = Duty Factor(dB)

9.10.1 Test Data for UNII1_DC 12 V

Band	UNII1		Mode			802.11a			Tone	-	
Channel	CH 36		Frequency(MHz)			5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 966.35	54.03	Peak	H	31.67	6.71	42.24	6.09	-	56.26	74.00	17.74
5 146.37	42.76	Average	H	32.11	6.83	42.19	6.09	0.30	45.90	54.00	8.10
4 992.85	55.02	Peak	V	31.77	6.71	42.24	6.09	-	57.35	74.00	16.65
4 503.06	42.59	Average	V	30.91	6.55	42.24	6.09	0.30	44.20	54.00	9.80

Band	UNII1		Mode			802.11n(HT20)			Tone	-	
Channel	CH 36		Frequency(MHz)			5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4929.67	53.80	Peak	H	31.56	6.68	42.24	6.09	-	55.89	74.00	18.11
4507.13	42.36	Average	H	30.91	6.55	42.24	6.09	0.29	43.96	54.00	10.04
5129.39	53.67	Peak	V	32.14	6.83	42.20	6.09	-	56.53	74.00	17.47
5142.98	42.72	Average	V	32.11	6.83	42.19	6.09	0.29	45.85	54.00	8.15

Band	UNII1		Mode			802.11n(HT40)			Tone	-	
Channel	CH 38		Frequency(MHz)			5 190			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5145.54	56.02	Peak	H	32.11	6.83	42.19	6.09	-	58.86	74.00	15.14
5148.99	43.83	Average	H	32.10	6.83	42.19	6.09	0.85	47.51	54.00	6.49
5146.92	57.97	Peak	V	32.11	6.83	42.19	6.09	-	60.81	74.00	13.19
5149.68	44.86	Average	V	32.10	6.83	42.19	6.09	0.85	48.54	54.00	5.46

9.10.2 Test Data for UNII3_DC 12 V

Band	UNII3		Mode			802.11a			Tone	-	
Channel	CH 149		Frequency(MHz)			5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.12	49.02	Peak	H	32.20	7.29	42.07	6.10	-	52.54	68.29	15.75
5 700.49	50.37	Peak	H	32.30	7.29	42.07	6.10	-	53.99	105.34	51.35
5 724.16	64.34	Peak	H	32.35	7.29	42.07	6.10	-	68.01	120.28	52.27
5 854.87	49.58	Peak	H	32.71	7.37	42.06	6.10	-	53.70	111.10	57.40
5 873.81	50.16	Peak	H	32.75	7.37	42.06	6.10	-	54.32	105.53	51.21
5 924.98	49.64	Peak	H	32.80	7.37	42.06	6.10	-	53.85	68.21	14.36
5 651.12	50.08	Peak	V	32.20	7.29	42.07	6.10	-	53.60	69.03	15.43
5 701.87	49.93	Peak	V	32.30	7.29	42.07	6.10	-	53.55	105.72	52.17
5 720.67	52.61	Peak	V	32.34	7.29	42.07	6.10	-	56.27	112.33	56.06
5 854.99	49.44	Peak	V	32.71	7.37	42.06	6.10	-	53.56	110.82	57.26
5 871.41	50.52	Peak	V	32.74	7.37	42.06	6.10	-	54.67	106.21	51.54
5 923.88	49.82	Peak	V	32.80	7.37	42.06	6.10	-	54.03	69.03	15.00

Band	UNII3		Mode			802.11a			Tone	-	
Channel	CH 165		Frequency(MHz)			5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.08	48.61	Peak	H	32.20	7.29	42.07	6.10	-	52.13	68.26	16.13
5 700.17	49.32	Peak	H	32.30	7.29	42.07	6.10	-	52.94	105.25	52.31
5 720.12	49.56	Peak	H	32.34	7.29	42.07	6.10	-	53.22	111.07	57.85
5 854.98	50.25	Peak	H	32.71	7.37	42.06	6.10	-	54.37	110.85	56.48
5 874.03	50.11	Peak	H	32.75	7.37	42.06	6.10	-	54.27	105.47	51.20
5 924.78	49.16	Peak	H	32.80	7.37	42.06	6.10	-	53.37	68.36	14.99
5 651.32	49.78	Peak	V	32.20	7.29	42.07	6.10	-	53.30	69.18	15.88
5 700.55	49.58	Peak	V	32.30	7.29	42.07	6.10	-	53.20	105.35	52.15
5 720.14	49.79	Peak	V	32.34	7.29	42.07	6.10	-	53.45	111.12	57.67
5 854.97	50.84	Peak	V	32.71	7.37	42.06	6.10	-	54.96	110.87	55.91
5 874.31	49.48	Peak	V	32.75	7.37	42.06	6.10	-	53.64	105.39	51.75
5 924.08	49.75	Peak	V	32.80	7.37	42.06	6.10	-	53.96	68.88	14.92

Band	UNII3		Mode			802.11n(HT20)			Tone	-	
Channel	CH 149		Frequency(MHz)			5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.27	49.36	Peak	H	32.20	7.29	42.07	6.10	-	52.88	68.40	15.52
5 700.23	49.89	Peak	H	32.30	7.29	42.07	6.10	-	53.51	105.26	51.75
5 720.08	50.90	Peak	H	32.34	7.29	42.07	6.10	-	54.56	110.98	56.42
5 854.89	51.43	Peak	H	32.71	7.37	42.06	6.10	-	55.55	111.05	55.50
5 874.81	50.06	Peak	H	32.75	7.37	42.06	6.10	-	54.22	105.25	51.03
5 924.83	49.44	Peak	H	32.80	7.37	42.06	6.10	-	53.65	68.33	14.68
5 650.62	48.75	Peak	V	32.20	7.29	42.07	6.10	-	52.27	68.66	16.39
5 700.57	49.65	Peak	V	32.30	7.29	42.07	6.10	-	53.27	105.36	52.09
5 723.48	60.26	Peak	V	32.35	7.29	42.07	6.10	-	63.93	118.73	54.80
5 854.29	50.89	Peak	V	32.71	7.37	42.06	6.10	-	55.01	112.42	57.41
5 874.91	49.99	Peak	V	32.75	7.37	42.06	6.10	-	54.15	105.23	51.08
5 923.93	50.23	Peak	V	32.80	7.37	42.06	6.10	-	54.44	68.99	14.55

Band	UNII3		Mode			802.11n(HT20)			Tone	-	
Channel	CH 165		Frequency(MHz)			5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.52	49.53	Peak	H	32.20	7.29	42.07	6.10	-	53.05	68.58	15.53
5 702.37	50.92	Peak	H	32.30	7.29	42.07	6.10	-	54.54	105.86	51.32
5 720.02	49.16	Peak	H	32.34	7.29	42.07	6.10	-	52.82	110.85	58.03
5 855.00	49.90	Peak	H	32.71	7.37	42.06	6.10	-	54.02	110.80	56.78
5 874.35	49.81	Peak	H	32.75	7.37	42.06	6.10	-	53.97	105.38	51.41
5 924.92	49.88	Peak	H	32.80	7.37	42.06	6.10	-	54.09	68.26	14.17
5 650.02	48.93	Peak	V	32.20	7.29	42.07	6.10	-	52.45	68.21	15.76
5 701.15	50.02	Peak	V	32.30	7.29	42.07	6.10	-	53.64	105.52	51.88
5 720.06	49.89	Peak	V	32.34	7.29	42.07	6.10	-	53.55	110.94	57.39
5 854.99	49.86	Peak	V	32.71	7.37	42.06	6.10	-	53.98	110.82	56.84
5 874.21	50.64	Peak	V	32.75	7.37	42.06	6.10	-	54.80	105.42	50.62
5 924.98	49.63	Peak	V	32.80	7.37	42.06	6.10	-	53.84	68.21	14.37

Band	UNII3		Mode			802.11n(HT40)			Tone	-	
Channel	CH 151		Frequency(MHz)			5 755			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5650.08	49.24	Peak	H	32.20	7.29	42.07	6.10	-	52.76	68.26	15.50
5719.33	64.98	Peak	H	32.34	7.29	42.07	6.10	-	68.64	110.61	41.97
5720.12	65.56	Peak	H	32.34	7.29	42.07	6.10	-	69.22	111.07	41.85
5854.88	50.08	Peak	H	32.71	7.37	42.06	6.10	-	54.20	111.07	56.87
5873.99	50.20	Peak	H	32.75	7.37	42.06	6.10	-	54.36	105.48	51.12
5924.68	50.64	Peak	H	32.80	7.37	42.06	6.10	-	54.85	68.44	13.59
5651.17	50.03	Peak	V	32.20	7.29	42.07	6.10	-	53.55	69.07	15.52
5715.97	61.79	Peak	V	32.33	7.29	42.07	6.10	-	65.44	109.67	44.23
5720.34	64.47	Peak	V	32.34	7.29	42.07	6.10	-	68.13	111.58	43.45
5854.99	50.68	Peak	V	32.71	7.37	42.06	6.10	-	54.80	110.82	56.02
5873.33	50.42	Peak	V	32.75	7.37	42.06	6.10	-	54.58	105.67	51.09
5924.23	50.40	Peak	V	32.80	7.37	42.06	6.10	-	54.61	68.77	14.16

Band	UNII3		Mode			802.11n(HT40)			Tone	-	
Channel	CH 159		Frequency(MHz)			5 795			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5650.52	49.65	Peak	H	32.20	7.29	42.07	6.10	-	53.17	68.58	15.41
5701.81	51.03	Peak	H	32.30	7.29	42.07	6.10	-	54.65	105.71	51.06
5720.23	50.88	Peak	H	32.34	7.29	42.07	6.10	-	54.54	111.32	56.78
5854.96	51.14	Peak	H	32.71	7.37	42.06	6.10	-	55.26	110.89	55.63
5873.85	50.34	Peak	H	32.75	7.37	42.06	6.10	-	54.50	105.52	51.02
5924.83	50.26	Peak	H	32.80	7.37	42.06	6.10	-	54.47	68.33	13.86
5651.37	49.92	Peak	V	32.20	7.29	42.07	6.10	-	53.44	69.21	15.77
5700.63	50.47	Peak	V	32.30	7.29	42.07	6.10	-	54.09	105.38	51.29
5720.32	50.74	Peak	V	32.34	7.29	42.07	6.10	-	54.40	111.53	57.13
5854.90	49.81	Peak	V	32.71	7.37	42.06	6.10	-	53.93	111.03	57.10
5873.03	50.64	Peak	V	32.75	7.37	42.06	6.10	-	54.80	105.75	50.95
5923.98	50.57	Peak	V	32.80	7.37	42.06	6.10	-	54.78	68.95	14.17

9.10.3 Test Data for UNII1_DC 24 V

Band	UNII1		Mode			802.11a			Tone	-	
Channel	CH 36		Frequency(MHz)			5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 814.87	55.13	Peak	H	31.50	6.59	42.24	6.09	-	57.07	74.00	16.93
5 145.69	42.94	Average	H	32.11	6.83	42.19	6.09	0.30	46.08	54.00	7.92
4 572.35	54.51	Peak	V	31.04	6.50	42.24	6.09	-	55.90	74.00	18.10
4 998.28	42.79	Average	V	31.79	6.71	42.24	6.09	0.30	45.44	54.00	8.56

Band	UNII1		Mode			802.11n(HT20)			Tone	-	
Channel	CH 36		Frequency(MHz)			5 180			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5083.88	53.69	Peak	H	32.14	6.83	42.21	6.09	-	56.54	74.00	17.46
5146.37	42.83	Average	H	32.11	6.83	42.19	6.09	0.29	45.96	54.00	8.04
4979.94	53.91	Peak	V	31.72	6.71	42.24	6.09	-	56.19	74.00	17.81
5143.66	42.73	Average	V	32.11	6.83	42.19	6.09	0.29	45.86	54.00	8.14

Band	UNII1		Mode			802.11n(HT40)			Tone	-	
Channel	CH 38		Frequency(MHz)			5 190			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5148.99	58.00	Peak	H	32.10	6.83	42.19	6.09	-	60.83	74.00	13.17
5146.92	43.92	Average	H	32.11	6.83	42.19	6.09	0.85	47.61	54.00	6.39
5148.30	59.63	Peak	V	32.10	6.83	42.19	6.09	-	62.46	74.00	11.54
5149.68	46.07	Average	V	32.10	6.83	42.19	6.09	0.85	49.75	54.00	4.25

9.10.4 Test Data for UNII3_DC 24 V

Band	UNII3		Mode			802.11a			Tone	-	
Channel	CH 149		Frequency(MHz)			5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.62	49.41	Peak	H	32.20	7.29	42.07	6.10	-	52.93	68.66	15.73
5 700.49	49.98	Peak	H	32.30	7.29	42.07	6.10	-	53.60	105.34	51.74
5 722.34	57.70	Peak	H	32.34	7.29	42.07	6.10	-	61.36	116.14	54.78
5 854.88	50.49	Peak	H	32.71	7.37	42.06	6.10	-	54.61	111.07	56.46
5 874.93	50.54	Peak	H	32.75	7.37	42.06	6.10	-	54.70	105.22	50.52
5 924.78	49.23	Peak	H	32.80	7.37	42.06	6.10	-	53.44	68.36	14.92
5 650.02	49.88	Peak	V	32.20	7.29	42.07	6.10	-	53.40	68.21	14.81
5 719.27	57.35	Peak	V	32.34	7.29	42.07	6.10	-	61.01	110.60	49.59
5 723.08	64.96	Peak	V	32.35	7.29	42.07	6.10	-	68.63	117.82	49.19
5 854.91	50.38	Peak	V	32.71	7.37	42.06	6.10	-	54.50	111.01	56.51
5 874.75	50.28	Peak	V	32.75	7.37	42.06	6.10	-	54.44	105.27	50.83
5 924.83	49.75	Peak	V	32.80	7.37	42.06	6.10	-	53.96	68.33	14.37

Band	UNII3		Mode			802.11a			Tone	-	
Channel	CH 165		Frequency(MHz)			5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.02	50.56	Peak	H	32.20	7.29	42.07	6.10	-	54.08	68.21	14.13
5 701.29	50.52	Peak	H	32.30	7.29	42.07	6.10	-	54.14	105.56	51.42
5 720.15	51.06	Peak	H	32.34	7.29	42.07	6.10	-	54.72	111.14	56.42
5 854.39	52.37	Peak	H	32.71	7.37	42.06	6.10	-	56.49	112.19	55.70
5 874.69	50.23	Peak	H	32.75	7.37	42.06	6.10	-	54.39	105.29	50.90
5 924.83	49.62	Peak	H	32.80	7.37	42.06	6.10	-	53.83	68.33	14.50
5 650.32	50.65	Peak	V	32.20	7.29	42.07	6.10	-	54.17	68.44	14.27
5 700.03	49.99	Peak	V	32.30	7.29	42.07	6.10	-	53.61	105.21	51.60
5 720.01	50.16	Peak	V	32.34	7.29	42.07	6.10	-	53.82	110.82	57.00
5 854.88	50.46	Peak	V	32.71	7.37	42.06	6.10	-	54.58	111.07	56.49
5 874.85	50.15	Peak	V	32.75	7.37	42.06	6.10	-	54.31	105.24	50.93
5 924.92	50.88	Peak	V	32.80	7.37	42.06	6.10	-	55.09	68.26	13.17

Band	UNII3		Mode			802.11n(HT20)			Tone	-	
Channel	CH 149		Frequency(MHz)			5 745			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.32	49.90	Peak	H	32.20	7.29	42.07	6.10	-	53.42	68.44	15.02
5 701.25	50.49	Peak	H	32.30	7.29	42.07	6.10	-	54.11	105.55	51.44
5 721.64	58.42	Peak	H	32.34	7.29	42.07	6.10	-	62.08	114.54	52.46
5 854.92	49.69	Peak	H	32.71	7.37	42.06	6.10	-	53.81	110.98	57.17
5 874.73	50.29	Peak	H	32.75	7.37	42.06	6.10	-	54.45	105.28	50.83
5 923.93	50.62	Peak	H	32.80	7.37	42.06	6.10	-	54.83	68.99	14.16
5 650.82	49.49	Peak	V	32.20	7.29	42.07	6.10	-	53.01	68.81	15.80
5 702.35	50.54	Peak	V	32.30	7.29	42.07	6.10	-	54.16	105.86	51.70
5 720.38	52.36	Peak	V	32.34	7.29	42.07	6.10	-	56.02	111.67	55.65
5 854.98	49.68	Peak	V	32.71	7.37	42.06	6.10	-	53.80	110.85	57.05
5 874.13	50.72	Peak	V	32.75	7.37	42.06	6.10	-	54.88	105.44	50.56
5 924.98	50.00	Peak	V	32.80	7.37	42.06	6.10	-	54.21	68.21	14.00

Band	UNII3		Mode			802.11n(HT20)			Tone	-	
Channel	CH 165		Frequency(MHz)			5 825			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5 650.08	49.40	Peak	H	32.20	7.29	42.07	6.10	-	52.92	68.26	15.34
5 700.67	50.34	Peak	H	32.30	7.29	42.07	6.10	-	53.96	105.39	51.43
5 720.01	50.43	Peak	H	32.34	7.29	42.07	6.10	-	54.09	110.82	56.73
5 854.88	50.62	Peak	H	32.71	7.37	42.06	6.10	-	54.74	111.07	56.33
5 874.85	50.02	Peak	H	32.75	7.37	42.06	6.10	-	54.18	105.24	51.06
5 924.68	50.21	Peak	H	32.80	7.37	42.06	6.10	-	54.42	68.44	14.02
5 651.07	49.21	Peak	V	32.20	7.29	42.07	6.10	-	52.73	68.99	16.26
5 700.77	51.43	Peak	V	32.30	7.29	42.07	6.10	-	55.05	105.42	50.37
5 720.25	50.81	Peak	V	32.34	7.29	42.07	6.10	-	54.47	111.37	56.90
5 854.94	49.97	Peak	V	32.71	7.37	42.06	6.10	-	54.09	110.94	56.85
5 874.97	49.93	Peak	V	32.75	7.37	42.06	6.10	-	54.09	105.21	51.12
5 924.88	49.59	Peak	V	32.80	7.37	42.06	6.10	-	53.80	68.29	14.49

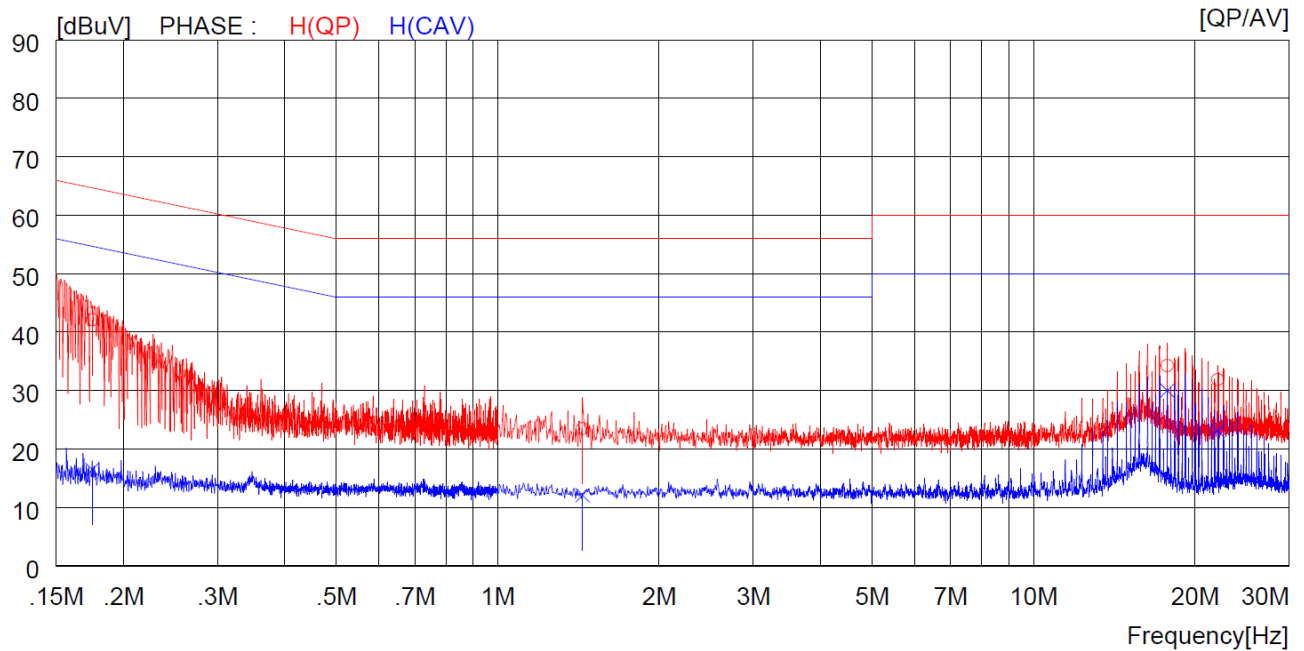
Band	UNII3		Mode			802.11n(HT40)			Tone	-	
Channel	CH 151		Frequency(MHz)			5 755			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5650.47	49.24	Peak	H	32.20	7.29	42.07	6.10	-	52.76	68.55	15.79
5719.53	66.25	Peak	H	32.34	7.29	42.07	6.10	-	69.91	110.67	40.76
5720.14	66.90	Peak	H	32.34	7.29	42.07	6.10	-	70.56	111.12	40.56
5854.92	50.07	Peak	H	32.71	7.37	42.06	6.10	-	54.19	110.98	56.79
5871.83	51.37	Peak	H	32.74	7.37	42.06	6.10	-	55.52	106.09	50.57
5924.92	50.29	Peak	H	32.80	7.37	42.06	6.10	-	54.50	68.26	13.76
5650.77	49.48	Peak	V	32.20	7.29	42.07	6.10	-	53.00	68.77	15.77
5718.35	65.49	Peak	V	32.34	7.29	42.07	6.10	-	69.15	110.34	41.19
5720.24	65.09	Peak	V	32.34	7.29	42.07	6.10	-	68.75	111.35	42.60
5854.42	50.84	Peak	V	32.71	7.37	42.06	6.10	-	54.96	112.12	57.16
5873.47	50.72	Peak	V	32.75	7.37	42.06	6.10	-	54.88	105.63	50.75
5924.03	50.74	Peak	V	32.80	7.37	42.06	6.10	-	54.95	68.92	13.97

Band	UNII3		Mode			802.11n(HT40)			Tone	-	
Channel	CH 159		Frequency(MHz)			5 795			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
5650.12	49.84	Peak	H	32.20	7.29	42.07	6.10	-	53.36	68.29	14.93
5700.21	50.37	Peak	H	32.30	7.29	42.07	6.10	-	53.99	105.26	51.27
5720.00	49.62	Peak	H	32.34	7.29	42.07	6.10	-	53.28	110.80	57.52
5854.85	49.48	Peak	H	32.71	7.37	42.06	6.10	-	53.60	111.14	57.54
5874.19	50.78	Peak	H	32.75	7.37	42.06	6.10	-	54.94	105.43	50.49
5924.73	50.90	Peak	H	32.80	7.37	42.06	6.10	-	55.11	68.40	13.29
5650.02	49.92	Peak	V	32.20	7.29	42.07	6.10	-	53.44	68.21	14.77
5701.23	50.64	Peak	V	32.30	7.29	42.07	6.10	-	54.26	105.54	51.28
5720.11	51.03	Peak	V	32.34	7.29	42.07	6.10	-	54.69	111.05	56.36
5854.90	50.87	Peak	V	32.71	7.37	42.06	6.10	-	54.99	111.03	56.04
5872.63	50.58	Peak	V	32.75	7.37	42.06	6.10	-	54.74	105.86	51.12
5924.88	49.94	Peak	V	32.80	7.37	42.06	6.10	-	54.15	68.29	14.14

9.11 POWER LINE CONDUCTED EMISSION

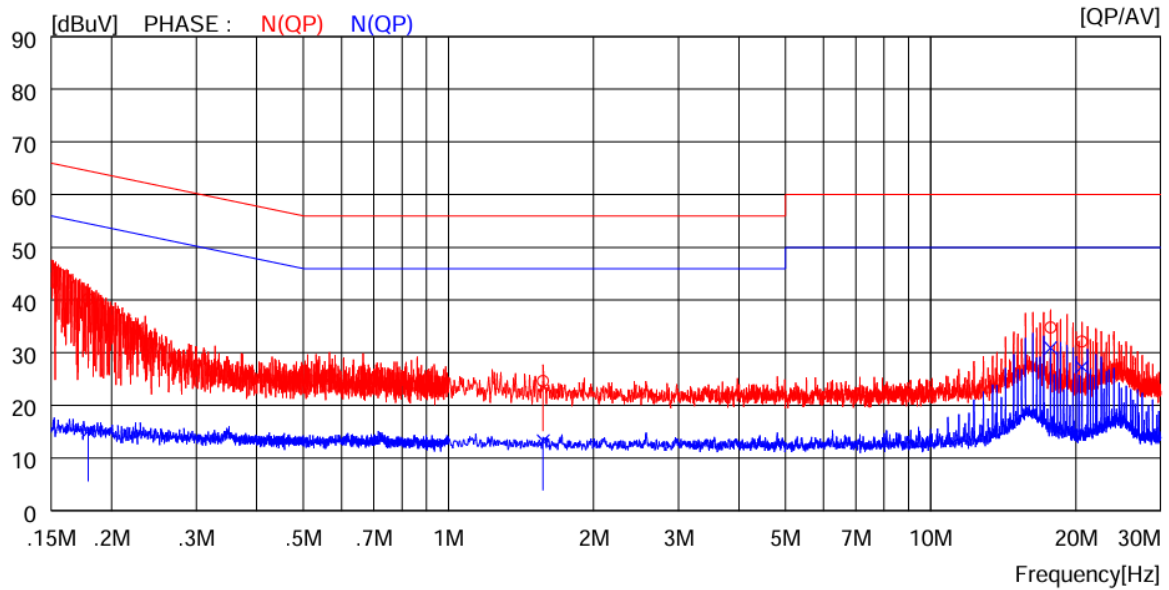
9.11.1 Test data for DC 12 V

-. 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	0.17500	32.1	----	10.0	42.1	----	64.7	----	22.6	----	H (QP)
2	1.44000	13.5	----	10.0	23.5	----	56.0	----	32.5	----	H (QP)
3	17.76000	23.8	----	10.5	34.3	----	60.0	----	25.7	----	H (QP)
4	22.06000	21.2	----	10.7	31.9	----	60.0	----	28.1	----	H (QP)
5	0.17500	----	6.5	10.0	----	16.5	----	54.7	----	38.2	H (CAV)
6	1.44000	----	2.1	10.0	----	12.1	----	46.0	----	33.9	H (CAV)
7	17.76000	----	19.5	10.5	----	30.0	----	50.0	----	20.0	H (CAV)
8	22.06000	----	12.4	10.7	----	23.1	----	50.0	----	26.9	H (CAV)

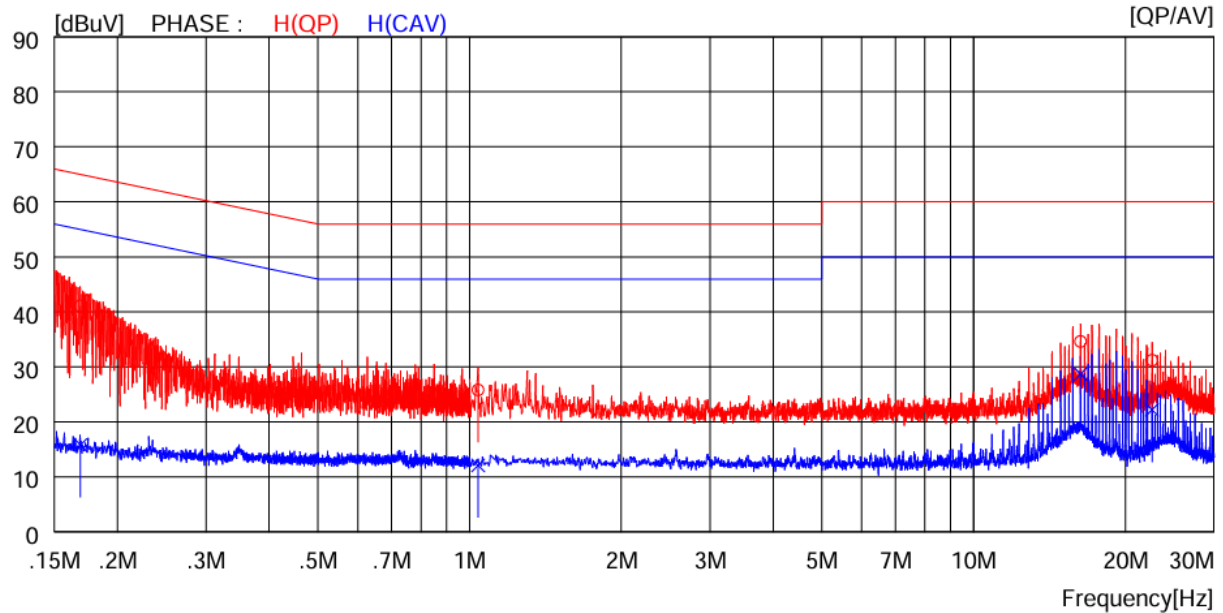
-. Tested Line : NEUTRAL LINE



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	0.17900	30.2	----	10.0	40.2	----	64.5	----	24.3	----	N(QP)
2	1.57200	14.6	----	10.0	24.6	----	56.0	----	31.4	----	N(QP)
3	17.73000	24.3	----	10.5	34.8	----	60.0	----	25.2	----	N(QP)
4	20.58000	21.5	----	10.6	32.1	----	60.0	----	27.9	----	N(QP)
5	0.17900	----	5.1	10.0	----	15.1	----	54.5	----	39.4	N(CAV)
6	1.57200	----	3.3	10.0	----	13.3	----	46.0	----	32.7	N(CAV)
7	17.73000	----	20.4	10.5	----	30.9	----	50.0	----	19.1	N(CAV)
8	20.58000	----	16.7	10.6	----	27.3	----	50.0	----	22.7	N(CAV)

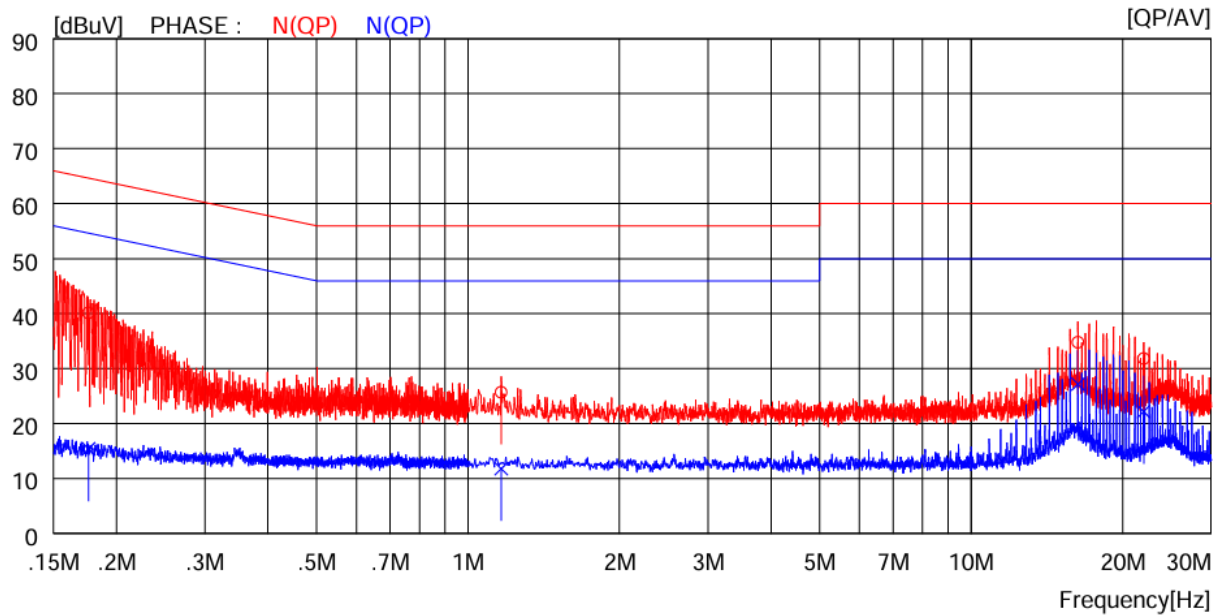
9.11.2 Test data for DC 24 V

-. 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	0.16900	31.1	----	10.0	41.1	----	65.0	----	23.9	----	H(QP)
2	1.04000	15.8	----	10.0	25.8	----	56.0	----	30.2	----	H(QP)
3	16.31000	24.1	----	10.5	34.6	----	60.0	----	25.4	----	H(QP)
4	22.60000	20.5	----	10.7	31.2	----	60.0	----	28.8	----	H(QP)
5	0.16900	----	5.8	10.0	----	15.8	----	55.0	----	39.2	H(CAV)
6	1.04000	----	2.1	10.0	----	12.1	----	46.0	----	33.9	H(CAV)
7	16.31000	----	18.2	10.5	----	28.7	----	50.0	----	21.3	H(CAV)
8	22.60000	----	11.5	10.7	----	22.2	----	50.0	----	27.8	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	0.17600	30.1	----	10.0	40.1	----	64.7	----	24.6	----	N(QP)
2	1.16400	15.7	----	10.0	25.7	----	56.0	----	30.3	----	N(QP)
3	16.31000	24.3	----	10.5	34.8	----	60.0	----	25.2	----	N(QP)
4	22.02000	21.1	----	10.7	31.8	----	60.0	----	28.2	----	N(QP)
5	0.17600	----	5.4	10.0	----	15.4	----	54.7	----	39.3	N(CAV)
6	1.16400	----	1.8	10.0	----	11.8	----	46.0	----	34.2	N(CAV)
7	16.31000	----	16.7	10.5	----	27.2	----	50.0	----	22.8	N(CAV)
8	22.02000	----	11.5	10.7	----	22.2	----	50.0	----	27.8	N(CAV)