

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-265-RWD-020
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 : 55 pages (including this page)
Date of Incoming : April 09, 2026
Date of issue : May 20, 2026

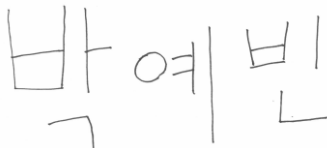
SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

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-020	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	DTS – DIGITAL TRNSMISSION SYSTEM
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 C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
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
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Conducted(average) Output Power	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / 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 C Section 15.247.

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. >= 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 2GHz

Mode	SISO		MIMO [ANT 0 + ANT 1]	
	ANT 0	ANT 1	CDD	SDM
802.11 b	O	X	X	X
802.11 g	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)	<u>ANT 0</u>	ANT 1	MIMO[SDM]	MIMO[CDD]
		Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)	Peak Gain (dBi)
WLAN 2.4 GHz	2 412 ~ 2 462	2.23	-	-	-

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.

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

3.3 Maximum Output Power

- WLAN 2GHz

Band	Mode	Output Power (dBm)	E.I.R.P Power (dBm)
WLAN 2.4 GHz	802.11 b	12.80	-
	802.11 g	11.39	-
	802.11 n(HT20)	10.23	-
	802.11 n(HT40)	10.41	-

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 is programmed.

-. Frequency / Channel Operations

Channel	Frequency
1	2 412
2	2 417
3	2 422
4	2 427
5	2 432
6	2 437
7	2 442
8	2 447
9	2 452
10	2 457
11	2 462

-. Power Level Setting(Dec)

Mode		Channel No.	Frequency (MHz)	PLS Setting
WLAN 2.4 GHz	802.11 b	1	2 412	12
		6	2 437	12
		11	2 462	12
	802.11 g	1	2 412	10
		6	2 437	10
		11	2 462	10
	802.11 n(HT20)	1	2 412	9
		6	2 437	9
		11	2 462	9
	802.11 n(HT40)	3	2 422	9
		6	2 437	9
		9	2 452	9

5.4 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

5.5 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 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

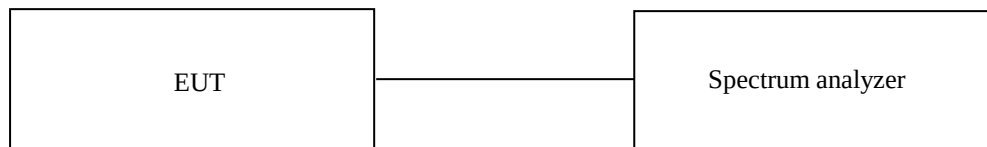
7.3 LIST OF TEST EQUIPMENT

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 TEST

8.1 Duty Cycle

1) Test Configuration



2) Test Procedure

We tested according to Procedure Section 11.6 in ANSI C63.10-2020.

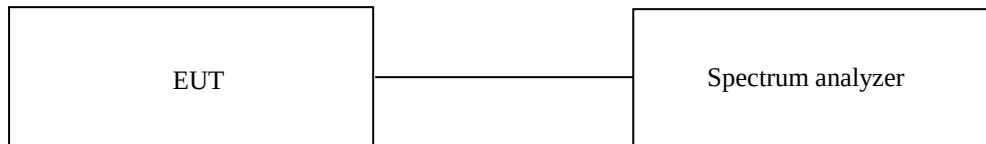
1. RBW = 10 MHz (the largest available value)
2. VBW = 10 MHz ($\geq$ RBW)
3. SPAN = 0 Hz
4. Measurement Type = Peak
5. Trace mode = Clear write
6. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2 Minimum 6 dB Bandwidth

1) Limit

According to §15.247(a)(2), The minimum 6 dB bandwidth shall be at least 500 kHz.

2) Test Configuration



3) Test Procedure

6 dB Bandwidth

We tested according to Procedure Section 11.8 in ANSI C63.10-2020.

1. RBW: shall be in the range of 1 % to 5% of the OBW but not less than 100 kHz.
2. VBW $\geq 3 \times$ RBW
3. Sweep: No faster than coupled (auto) time
4. Detector: Peak
5. Trace mode: max hold
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.

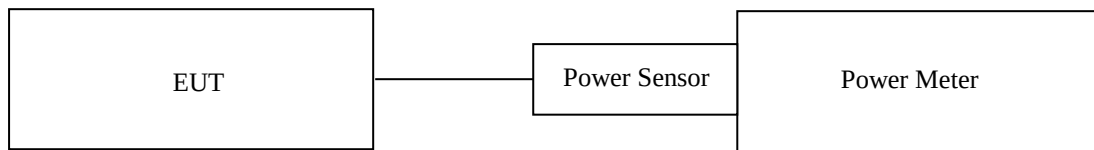
8.3 Maximum Conducted (Average) Output Power

1) Limit

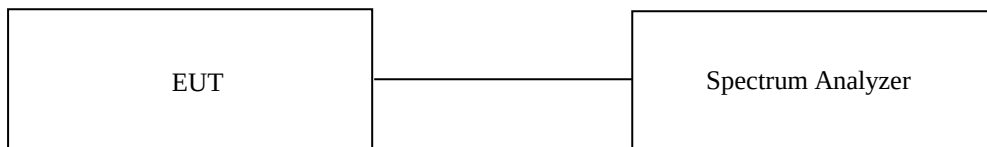
According to §15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

2) Test Configuration

- Power Meter



- Spectrum Analyzer



3) Test Procedure

Power Meter

We tested according to Procedure Section 11.9.2.3 in ANSI C63.10-2020.

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 tested according to Procedure Section 11.9.2.2 in ANSI C63.10-2020.

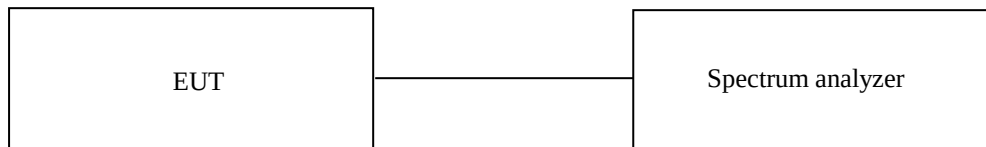
1. Set span to > 1.5 times the OBW
2. RBW: 1 % to 5 % of the OBW, but do not exceed 1 MHz
3. $VBW \geq 3 \times RBW$
4. Sweep time: auto
5. Detector: power averaging (rms), if available. Otherwise, use sample detector mode
6. Trace mode: average at least 100 traces in power averaging (rms) mode.
7. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band-edges.

8.4 Power Spectral Density

1) Limit

According to §15.247(e), The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

2) Test Configuration



3) Test Procedure

We tested according to Procedure Section 11.10.3 in ANSI C63.10-2020.

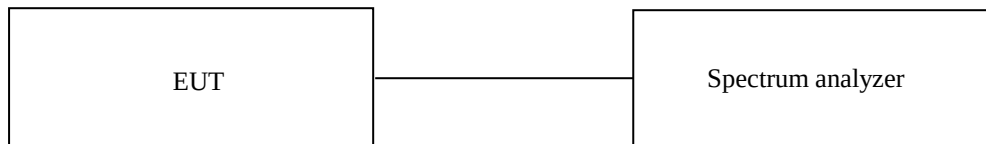
1. Set span to at least 1.5 times the DTS bandwidth
2. $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
3. $\text{VBW} \geq 3 \times \text{RBW}$
4. Detector: power averaging (rms)
5. Sweep: auto couple
6. Employ trace averaging (rms) mode over a minimum of 100 traces.
7. Allow the trace to stabilize.
8. Use the peak marker function to determine the maximum amplitude level.
9. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

8.5 100 kHz Bandwidth Outside the Frequency Band

1) Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

2) Test Configuration



3) Test Procedure

We tested according to Procedure Section 11.11 in ANSI C63.10-2020.

1. RBW: 100 kHz
2. VBW: 300 kHz
3. Sweep: No faster than coupled (auto) time
4. Detector: Peak
5. Trace mode: max hold
6. Allow the trace to stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

8.6 Radiated Test

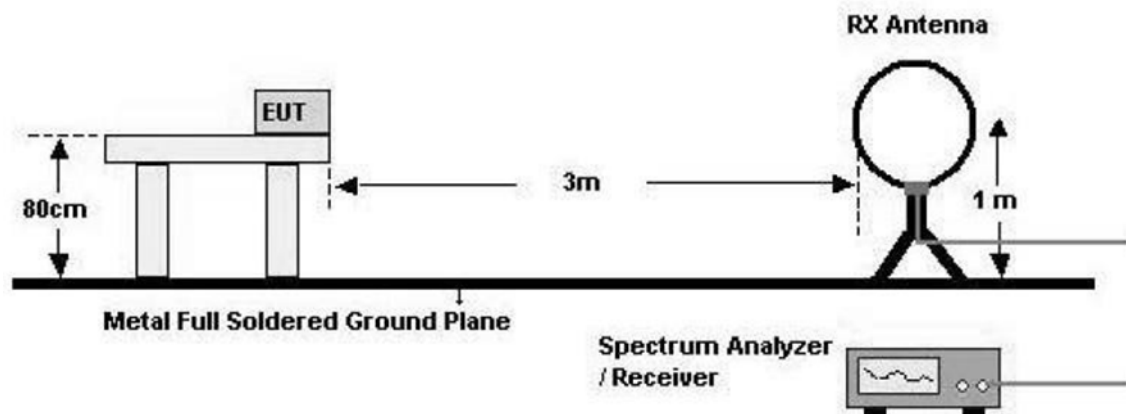
1) Limit

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

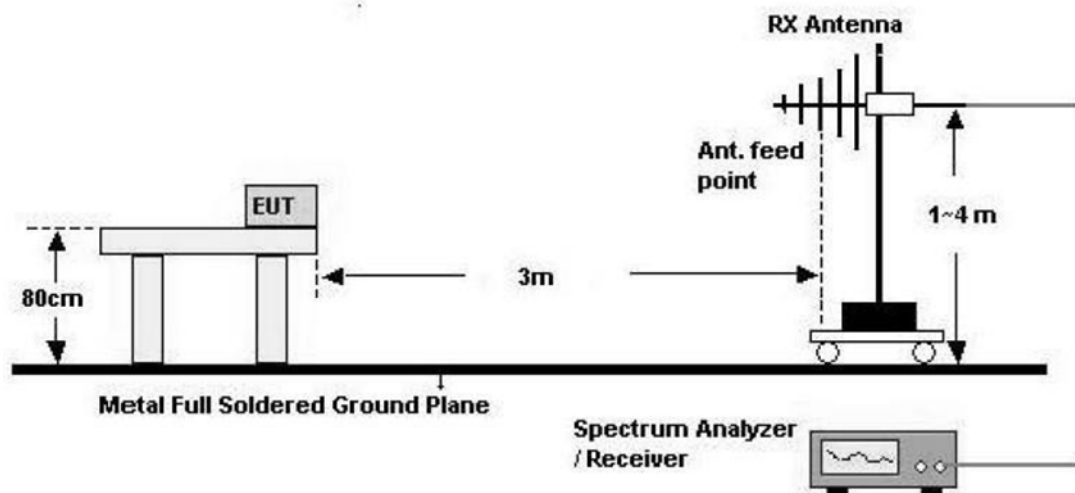
Frequency Range (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 860	200	3
Above 960	500	3

2) Test Configuration

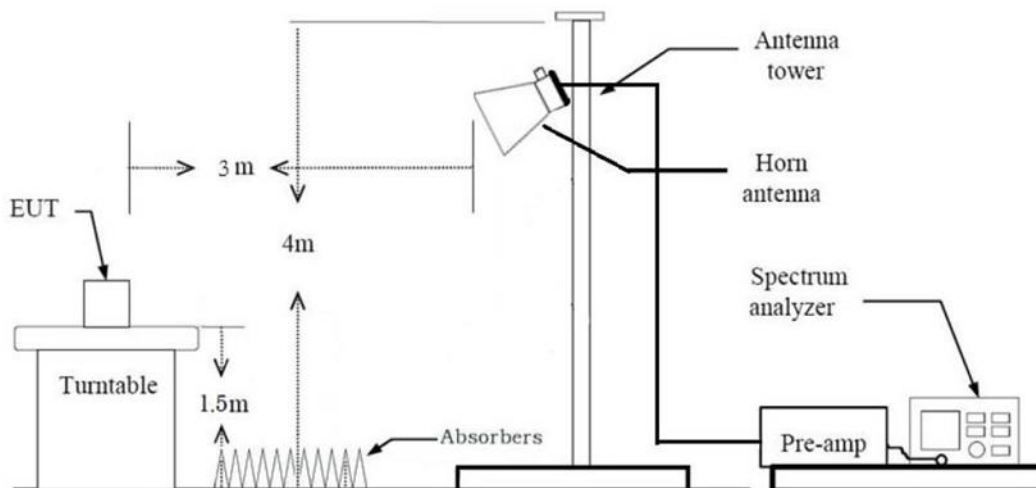
Below 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



3) Test Procedure

Radiated Spurious Emissions(Below 30 MHz)

We tested according to Procedure Section 6.4 in ANSI C63.10-2020.

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)

We tested according to Procedure Section 6.5 in ANSI C63.10-2020.

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)

We tested according to Procedure Section 6.6 & 11.12 in ANSI C63.10-2020.

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)
 - 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)
 - 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

We tested according to Procedure Section 6.10 & 11.12 in ANSI C63.10-2020.

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)
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = Auto
 - 4) Measurement Type(Method AD – Average Detection)
 - 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) 2 310 MHz ~ 2 390 MHz
 - 2) 2 483.5 MHz ~ 2 500 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)

8.7 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 Typeors : Quasi Peak and Average Measurement Type

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

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
802.11 b	12.4045	0.3581	97.1940	0.12
802.11 g	2.0440	0.1302	94.0129	0.27
802.11 n(HT20)	1.8866	0.1914	90.7892	0.42
802.11 n(HT40)	0.9185	0.2067	81.6331	0.88

Note : In order to simplify the report, attached plots were only the lowest data rate.

9.4 Minimum 6 dB Bandwidth

Margin = Limit – Measured Value

9.4.1 Test data for DC 12 V

Mode	Channel	Frequency (MHz)	Measured Value (MHz)	Limit (MHz)	Margin (MHz)
802.11 b	1	2 412	10.04	0.50	9.54
	6	2 437	10.04	0.50	9.54
	11	2 462	10.04	0.50	9.54
802.11 g	1	2 412	15.13	0.50	14.63
	6	2 437	15.13	0.50	14.63
	11	2 462	15.13	0.50	14.63
802.11 n(HT20)	1	2 412	15.13	0.50	14.63
	6	2 437	15.13	0.50	14.63
	11	2 462	15.13	0.50	14.63
802.11 n(HT40)	3	2 422	33.77	0.50	33.27
	6	2 437	33.77	0.50	33.27
	9	2 452	33.77	0.50	33.27

9.4.2 Test data for DC 24 V

Mode	Channel	Frequency (MHz)	Measured Value (MHz)	Limit (MHz)	Margin (MHz)
802.11 b	1	2 412	10.04	0.50	9.54
	6	2 437	10.04	0.50	9.54
	11	2 462	10.04	0.50	9.54
802.11 g	1	2 412	15.18	0.50	14.68
	6	2 437	15.13	0.50	14.63
	11	2 462	15.13	0.50	14.63
802.11 n(HT20)	1	2 412	15.09	0.50	14.59
	6	2 437	15.13	0.50	14.63
	11	2 462	15.13	0.50	14.63
802.11 n(HT40)	3	2 422	33.77	0.50	33.27
	6	2 437	33.77	0.50	33.27
	9	2 452	31.37	0.50	30.87

9.5 Maximum Conducted (Average) Output Power

- Total Value [dBm] = Measured Value [dBm] + Duty Factor [dB]
- Margin [dB] = Limit – Total Value
- E.I.R.P [dBm] = Total Value [dBm] + Antenna Gain [dBi]

9.5.1 Test data for DC 12 V

Mode	Channel	Frequency	Measured Value	Duty Factor	Total Value	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)
802.11 b	1	2 412	12.58	0.12	12.70	30.00	17.30
	6	2 437	12.63	0.12	12.75	30.00	17.25
	11	2 462	12.44	0.12	12.56	30.00	17.44
802.11 g	1	2 412	10.82	0.27	11.09	30.00	18.91
	6	2 437	11.02	0.27	11.29	30.00	18.71
	11	2 462	10.96	0.27	11.23	30.00	18.77
802.11 n(HT20)	1	2 412	9.56	0.42	9.98	30.00	20.02
	6	2 437	9.78	0.42	10.20	30.00	19.80
	11	2 462	9.71	0.42	10.13	30.00	19.87
802.11 n(HT40)	3	2 422	9.28	0.88	10.16	30.00	19.84
	6	2 437	9.45	0.88	10.33	30.00	19.67
	9	2 452	9.32	0.88	10.20	30.00	19.80

9.5.2 Test data for DC 24 V

Mode	Channel	Frequency	Measured Value	Duty Factor	Total Value	Limit	Margin
		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)
802.11 b	1	2 412	12.52	0.12	12.64	30.00	17.36
	6	2 437	12.68	0.12	12.80	30.00	17.20
	11	2 462	12.53	0.12	12.65	30.00	17.35
802.11 g	1	2 412	10.94	0.27	11.21	30.00	18.79
	6	2 437	11.12	0.27	11.39	30.00	18.61
	11	2 462	10.89	0.27	11.16	30.00	18.84
802.11 n(HT20)	1	2 412	9.68	0.42	10.10	30.00	19.90
	6	2 437	9.81	0.42	10.23	30.00	19.77
	11	2 462	9.76	0.42	10.18	30.00	19.82
802.11 n(HT40)	3	2 422	9.34	0.88	10.22	30.00	19.78
	6	2 437	9.53	0.88	10.41	30.00	19.59
	9	2 452	9.44	0.88	10.32	30.00	19.68

9.6 Power Spectral Density

- Total Value [dBm] = Measured Value [dBm] + Duty Factor [dB]

- Margin [dB] = Limit – Total Value

9.6.1 Test data for DC 12 V

Mode	Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor (dB)	Total Value (dBm)	Limit (dBm)	Margin (dB)
802.11 b	1	2 412	-20.16	0.12	-20.04	8.00	28.04
	6	2 437	-20.23	0.12	-20.11	8.00	28.11
	11	2 462	-20.18	0.12	-20.06	8.00	28.06
802.11 g	1	2 412	-23.08	0.270	-22.81	8.00	30.81
	6	2 437	-22.88	0.270	-22.61	8.00	30.61
	11	2 462	-22.74	0.270	-22.47	8.00	30.47
802.11 n(HT20)	1	2 412	-23.98	0.420	-23.56	8.00	31.56
	6	2 437	-24.11	0.420	-23.69	8.00	31.69
	11	2 462	-23.75	0.420	-23.33	8.00	31.33
802.11 n(HT40)	3	2 422	-27.71	0.880	-26.83	8.00	34.83
	6	2 437	-27.41	0.880	-26.53	8.00	34.53
	9	2 452	-27.23	0.880	-26.35	8.00	34.35

9.6.2 Test data for DC 24 V

Mode	Channel	Frequency (MHz)	Measured Value (dBm)	Duty Factor (dB)	Total Value (dBm)	Limit (dBm)	Margin (dB)
802.11 b	1	2 412	-20.00	0.12	-19.88	8.00	27.88
	6	2 437	-20.04	0.12	-19.92	8.00	27.92
	11	2 462	-20.25	0.12	-20.13	8.00	28.13
802.11 g	1	2 412	-22.40	0.270	-22.13	8.00	30.13
	6	2 437	-22.83	0.270	-22.56	8.00	30.56
	11	2 462	-22.91	0.270	-22.64	8.00	30.64
802.11 n(HT20)	1	2 412	-23.85	0.420	-23.43	8.00	31.43
	6	2 437	-23.92	0.420	-23.50	8.00	31.50
	11	2 462	-23.77	0.420	-23.35	8.00	31.35
802.11 n(HT40)	3	2 422	-27.26	0.880	-26.38	8.00	34.38
	6	2 437	-27.57	0.880	-26.69	8.00	34.69
	9	2 452	-27.35	0.880	-26.47	8.00	34.47

9.7 100 kHz Bandwidth Outside the Frequency Band

For Test data for conducted emission, please refer to the Annex.

9.8 Radiated Spurious Emissions

9.8.1 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

9.8.2 Frequency Range: Below 1 GHz

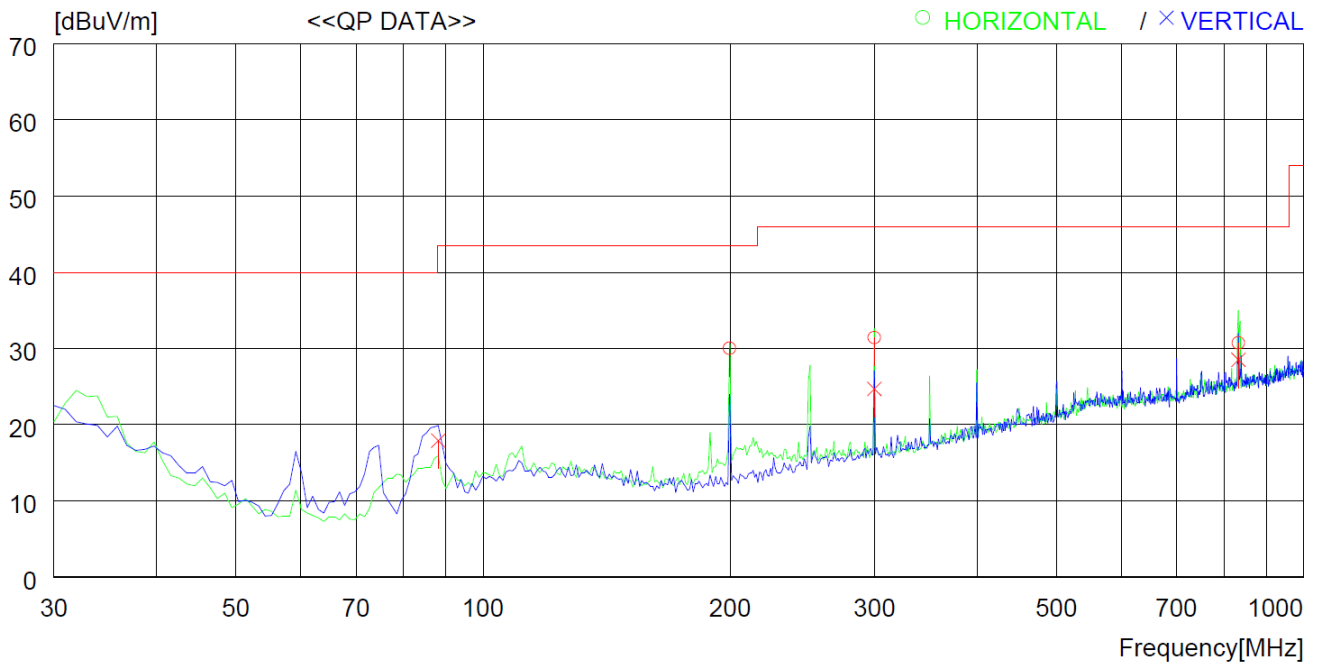
9.8.2.1 Test data for DC 12 V

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	44.2	15.2	3.0	32.4	30.0	43.5	13.5	212	290
2	299.660	40.9	19.1	3.7	32.3	31.4	46.0	14.6	100	359
3	832.181	30.3	26.2	6.2	32.0	30.7	46.0	15.3	164	359
----- Vertical -----										
4	88.200	34.2	14.2	2.0	32.5	17.9	43.5	25.6	150	2
5	299.660	34.2	19.1	3.7	32.3	24.7	46.0	21.3	130	0
6	832.181	28.1	26.2	6.2	32.0	28.5	46.0	17.5	100	0

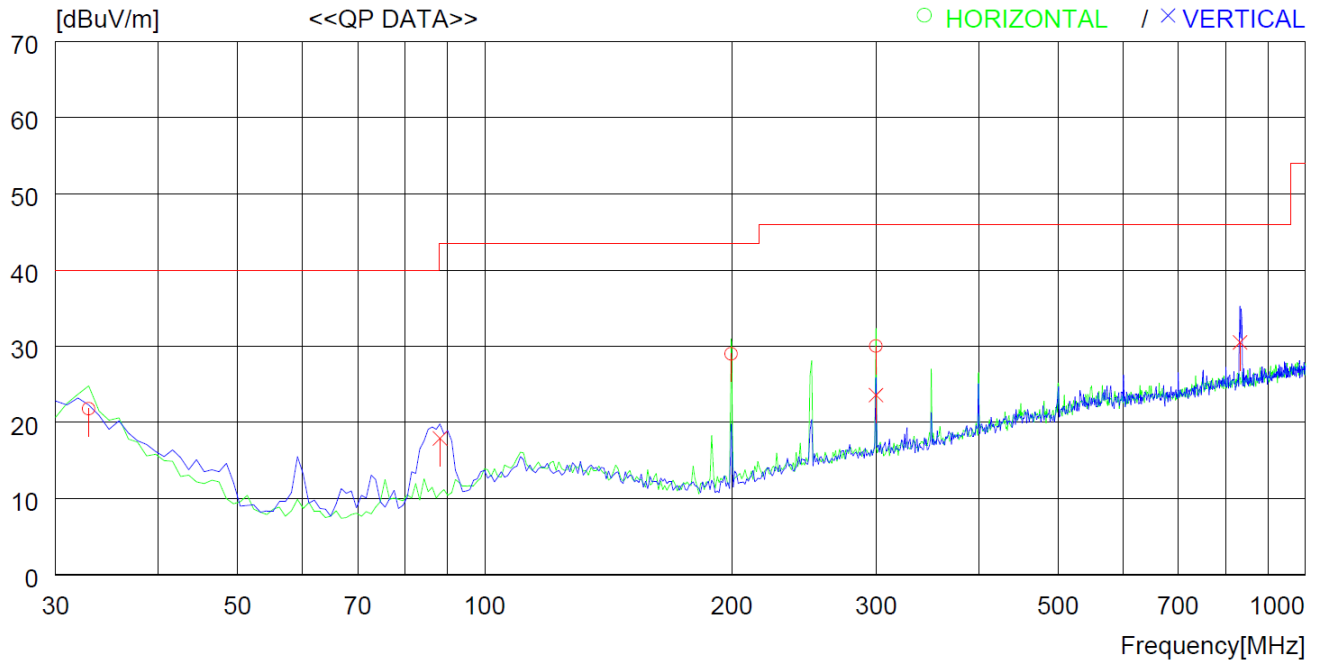
9.8.2.2 Test data for DC 24 V

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	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	32.910	29.6	23.4	1.3	32.5	21.8	40.0	18.2	315	94
2	199.750	43.2	15.2	3.0	32.4	29.0	43.5	14.5	146	359
3	299.660	39.5	19.1	3.7	32.3	30.0	46.0	16.0	130	91
----- Vertical -----										
4	88.200	34.2	14.2	2.0	32.5	17.9	43.5	25.6	220	359
5	299.660	33.1	19.1	3.7	32.3	23.6	46.0	22.4	200	121
6	832.181	30.1	26.2	6.2	32.0	30.5	46.0	15.5	270	359

9.8.3 Frequency Range Above 1 GHz

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

9.8.3.1 Test data for DC 12 V

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 824.100	54.18	Peak	H	31.50	7.03	42.24	-	50.47	74.00	23.53
4 824.050	47.83	Average	H	31.50	7.03	42.24	0.12	44.24	54.00	9.76
4 823.800	55.22	Peak	V	31.50	7.03	42.24	-	51.51	74.00	22.49
4 823.900	50.11	Average	V	31.50	7.03	42.24	0.12	46.52	54.00	7.48

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 874.050	57.32	Peak	H	31.50	7.08	42.24	-	53.66	74.00	20.34
4 874.050	53.16	Average	H	31.50	7.08	42.24	0.12	49.62	54.00	4.38
4 873.900	54.42	Peak	V	31.50	7.08	42.24	-	50.76	74.00	23.24
4 874.000	48.65	Average	V	31.50	7.08	42.24	0.12	45.11	54.00	8.89

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 924.200	56.63	Peak	H	31.55	7.08	42.24	-	53.02	74.00	20.98
4 923.900	52.01	Average	H	31.55	7.08	42.24	0.12	48.52	54.00	5.48
4 924.100	53.81	Peak	V	31.55	7.08	42.24	-	50.20	74.00	23.80
4 923.850	46.80	Average	V	31.55	7.08	42.24	0.12	43.31	54.00	10.69

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 822.800	52.71	Peak	H	31.50	7.03	42.24	-	49.00	74.00	25.00
4 824.050	40.65	Average	H	31.50	7.03	42.24	0.27	37.21	54.00	16.79
4 823.350	51.94	Peak	V	31.50	7.03	42.24	-	48.23	74.00	25.77
4 823.650	40.42	Average	V	31.50	7.03	42.24	0.27	36.98	54.00	17.02

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 875.550	56.65	Peak	H	31.50	7.08	42.24	-	52.99	74.00	21.01
4 872.400	43.59	Average	H	31.50	7.08	42.24	0.27	40.20	54.00	13.80
4 875.550	51.89	Peak	V	31.50	7.08	42.24	-	48.23	74.00	25.77
4 875.250	40.43	Average	V	31.50	7.08	42.24	0.27	37.04	54.00	16.96

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 922.000	60.14	Peak	H	31.54	7.08	42.24	-	56.52	74.00	17.48
4 922.700	43.11	Average	H	31.55	7.08	42.24	0.27	39.77	54.00	14.23
4 917.660	51.40	Peak	V	31.54	7.08	42.24	-	47.78	74.00	26.22
4 921.200	39.82	Average	V	31.54	7.08	42.24	0.27	36.47	54.00	17.53

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 835.490	51.42	Peak	H	31.50	7.03	42.24	-	47.71	74.00	26.29
4 833.740	39.55	Average	H	31.50	7.03	42.24	0.42	36.26	54.00	17.74
4 825.600	50.98	Peak	V	31.50	7.03	42.24	-	47.27	74.00	26.73
4 837.690	39.32	Average	V	31.50	7.03	42.24	0.42	36.03	54.00	17.97

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 869.210	51.74	Peak	H	31.50	7.08	42.24	-	48.08	74.00	25.92
4 866.960	39.66	Average	H	31.50	7.08	42.24	0.42	36.42	54.00	17.58
4 878.700	51.13	Peak	V	31.50	7.08	42.24	-	47.47	74.00	26.53
4 873.900	39.95	Average	V	31.50	7.08	42.24	0.42	36.71	54.00	17.29

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 899.820	50.96	Peak	H	31.50	7.08	42.24	-	47.30	74.00	26.70
4 934.190	39.22	Average	H	31.57	7.08	42.24	0.42	36.05	54.00	17.95
4 941.230	50.91	Peak	V	31.58	7.08	42.24	-	47.33	74.00	26.67
4 922.850	39.20	Average	V	31.55	7.08	42.24	0.42	36.01	54.00	17.99

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 3		Frequency(MHz)		2 422			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)
4 876.170	50.90	Peak	H	31.50	7.08	42.24	-	47.24	74.00	26.76
4 846.300	39.30	Average	H	31.50	7.03	42.24	0.88	36.47	54.00	17.53
4 865.080	51.24	Peak	V	31.50	7.08	42.24	-	47.58	74.00	26.42
4 812.930	39.27	Average	V	31.50	7.03	42.24	0.88	36.44	54.00	17.56

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 877.700	50.88	Peak	H	31.50	7.08	42.24	-	47.22	74.00	26.78
4 861.210	39.36	Average	H	31.50	7.08	42.24	0.88	36.58	54.00	17.42
4 891.080	51.38	Peak	V	31.50	7.08	42.24	-	47.72	74.00	26.28
4 839.530	39.42	Average	V	31.50	7.03	42.24	0.88	36.59	54.00	17.41

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 9		Frequency(MHz)		2 452			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)
4 900.400	50.86	Peak	H	31.50	7.08	42.24	-	47.20	74.00	26.80
4 858.450	39.19	Average	H	31.50	7.08	42.24	0.88	36.41	54.00	17.59
4 949.850	50.75	Peak	V	31.60	7.08	42.24	-	47.19	74.00	26.81
4 866.540	39.27	Average	V	31.50	7.08	42.24	0.88	36.49	54.00	17.51

9.8.3.2 Test data for DC 24 V

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 823.850	54.69	Peak	H	31.50	7.03	42.24	-	50.98	74.00	23.02
4 823.950	49.04	Average	H	31.50	7.03	42.24	0.12	45.45	54.00	8.55
4 824.150	53.89	Peak	V	31.50	7.03	42.24	-	50.18	74.00	23.82
4 823.950	46.27	Average	V	31.50	7.03	42.24	0.12	42.68	54.00	11.32

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 873.850	53.85	Peak	H	31.50	7.08	42.24	-	50.19	74.00	23.81
4 874.000	47.10	Average	H	31.50	7.08	42.24	0.12	43.56	54.00	10.44
4 873.950	53.73	Peak	V	31.50	7.08	42.24	-	50.07	74.00	23.93
4 874.000	46.24	Average	V	31.50	7.08	42.24	0.12	42.70	54.00	11.30

Band	2.4 GHz		Mode		802.11b			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 923.900	53.33	Peak	H	31.55	7.08	42.24	-	49.72	74.00	24.28
4 924.000	46.70	Average	H	31.55	7.08	42.24	0.12	43.21	54.00	10.79
4 924.000	52.33	Peak	V	31.55	7.08	42.24	-	48.72	74.00	25.28
4 923.850	43.85	Average	V	31.55	7.08	42.24	0.12	40.36	54.00	13.64

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 825.150	51.38	Peak	H	31.50	7.03	42.24	-	47.67	74.00	26.33
4 827.750	39.93	Average	H	31.50	7.03	42.24	0.27	36.49	54.00	17.51
4 828.450	52.95	Peak	V	31.50	7.03	42.24	-	49.24	74.00	24.76
4 822.950	40.74	Average	V	31.50	7.03	42.24	0.27	37.30	54.00	16.70

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 865.710	51.43	Peak	H	31.50	7.08	42.24	-	47.77	74.00	26.23
4 874.500	40.09	Average	H	31.50	7.08	42.24	0.27	36.70	54.00	17.30
4 870.600	53.86	Peak	V	31.50	7.08	42.24	-	50.20	74.00	23.80
4 873.500	40.38	Average	V	31.50	7.08	42.24	0.27	36.99	54.00	17.01

Band	2.4 GHz		Mode		802.11g			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 926.450	52.09	Peak	H	31.55	7.08	42.24	-	48.48	74.00	25.52
4 922.350	40.85	Average	H	31.54	7.08	42.24	0.27	37.50	54.00	16.50
4 922.050	51.17	Peak	V	31.54	7.08	42.24	-	47.55	74.00	26.45
4 931.740	39.55	Average	V	31.56	7.08	42.24	0.27	36.22	54.00	17.78

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 1		Frequency(MHz)		2 412			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)
4 823.550	51.32	Peak	H	31.50	7.03	42.24	-	47.61	74.00	26.39
4 813.810	39.35	Average	H	31.50	7.03	42.24	0.42	36.06	54.00	17.94
4 823.600	51.43	Peak	V	31.50	7.03	42.24	-	47.72	74.00	26.28
4 835.640	39.48	Average	V	31.50	7.03	42.24	0.42	36.19	54.00	17.81

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 890.130	50.98	Peak	H	31.50	7.08	42.24	-	47.32	74.00	26.68
4 856.020	39.64	Average	H	31.50	7.08	42.24	0.42	36.40	54.00	17.60
4 878.000	50.97	Peak	V	31.50	7.08	42.24	-	47.31	74.00	26.69
4 870.700	39.72	Average	V	31.50	7.08	42.24	0.42	36.48	54.00	17.52

Band	2.4 GHz		Mode		802.11n(HT20)			Tone	-	
Channel	CH 11		Frequency(MHz)		2 462			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)
4 899.970	51.28	Peak	H	31.50	7.08	42.24	-	47.62	74.00	26.38
4 939.390	39.29	Average	H	31.58	7.08	42.24	0.42	36.13	54.00	17.87
4 942.630	51.80	Peak	V	31.59	7.08	42.24	-	48.23	74.00	25.77
4 921.850	39.29	Average	V	31.54	7.08	42.24	0.42	36.09	54.00	17.91

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 3		Frequency(MHz)		2 422			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)
4 863.980	51.08	Peak	H	31.50	7.08	42.24	-	47.42	74.00	26.58
4 889.650	39.33	Average	H	31.50	7.08	42.24	0.88	36.55	54.00	17.45
4 865.880	51.41	Peak	V	31.50	7.08	42.24	-	47.75	74.00	26.25
4 867.180	39.35	Average	V	31.50	7.08	42.24	0.88	36.57	54.00	17.43

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 6		Frequency(MHz)		2 437			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)
4 889.280	51.15	Peak	H	31.50	7.08	42.24	-	47.49	74.00	26.51
4 884.590	39.33	Average	H	31.50	7.08	42.24	0.88	36.55	54.00	17.45
4 825.150	50.81	Peak	V	31.50	7.03	42.24	-	47.10	74.00	26.90
4 841.130	39.24	Average	V	31.50	7.03	42.24	0.88	36.41	54.00	17.59

Band	2.4 GHz		Mode		802.11n(HT40)			Tone	-	
Channel	CH 9		Frequency(MHz)		2 452			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)
4 893.110	51.05	Peak	H	31.50	7.08	42.24	-	47.39	74.00	26.61
4 922.580	39.18	Average	H	31.55	7.08	42.24	0.88	36.45	54.00	17.55
4 867.840	50.74	Peak	V	31.50	7.08	42.24	-	47.08	74.00	26.92
4 858.150	39.28	Average	V	31.50	7.08	42.24	0.88	36.50	54.00	17.50

9.9 Radiated Restrictd Band Edge

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

9.9.1 Test data for DC 12 V

Band	2.4 GHz		Mode			802.11b			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			RU offset	-	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 387.39	60.44	Peak	H	27.63	4.86	42.75	10.28	-	60.46	74.00	13.54
2 386.98	50.21	Average	H	27.63	4.86	42.75	10.28	0.12	50.35	54.00	3.65
2 389.63	57.67	Peak	V	27.62	4.86	42.75	10.28	-	57.68	74.00	16.32
2 386.68	46.18	Average	V	27.63	4.86	42.75	10.28	0.12	46.32	54.00	7.68

Band	2.4 GHz		Mode			802.11b			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			RU offset	-	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 488.29	56.89	Peak	H	27.60	5.52	42.73	10.28	-	57.56	74.00	16.44
2 487.72	47.93	Average	H	27.60	5.52	42.73	10.28	0.12	48.72	54.00	5.28
2 487.38	56.23	Peak	V	27.60	5.52	42.73	10.28	-	56.90	74.00	17.10
2 487.53	44.81	Average	V	27.60	5.52	42.73	10.28	0.12	45.60	54.00	8.40

Band	2.4 GHz		Mode			802.11g			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			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)
2 389.94	67.93	Peak	H	27.62	4.86	42.75	10.28	-	67.94	74.00	6.06
2 390.04	50.33	Average	H	27.62	4.86	42.75	10.28	0.27	50.61	54.00	3.39
2 390.04	62.90	Peak	V	27.62	4.86	42.75	10.28	-	62.91	74.00	11.09
2 389.74	49.10	Average	V	27.62	4.86	42.75	10.28	0.27	49.38	54.00	4.62

Band	2.4 GHz		Mode			802.11g			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			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)
2 483.66	64.62	Peak	H	27.60	5.52	42.73	10.28	-	65.29	74.00	8.71
2 483.58	49.98	Average	H	27.60	5.52	42.73	10.28	0.27	50.92	54.00	3.08
2 483.54	60.17	Peak	V	27.60	5.52	42.73	10.28	-	60.84	74.00	13.16
2 483.51	45.88	Average	V	27.60	5.52	42.73	10.28	0.27	46.82	54.00	7.18

Band	2.4 GHz		Mode			802.11n(HT20)			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			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)
2 389.63	66.27	Peak	H	27.62	4.86	42.75	10.28	-	66.28	74.00	7.72
2 389.94	50.96	Average	H	27.62	4.86	42.75	10.28	0.42	51.39	54.00	2.61
2 389.53	57.81	Peak	V	27.62	4.86	42.75	10.28	-	57.82	74.00	16.18
2 388.10	43.63	Average	V	27.62	4.86	42.75	10.28	0.42	44.06	54.00	9.94

Band	2.4 GHz		Mode			802.11n(HT20)			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			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)
2 483.89	63.95	Peak	H	27.60	5.52	42.73	10.28	-	64.62	74.00	9.38
2 483.51	49.47	Average	H	27.60	5.52	42.73	10.28	0.42	50.56	54.00	3.44
2 495.43	54.20	Peak	V	27.60	5.52	42.73	10.28	-	54.87	74.00	19.13
2 484.27	42.88	Average	V	27.60	5.52	42.73	10.28	0.42	43.97	54.00	10.03

Band	2.4 GHz		Mode			802.11n(HT40)			Tone	-	
Channel	CH 1		Frequency(MHz)			2 422			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)
2 389.50	64.91	Peak	H	27.62	4.86	42.75	10.28	-	64.92	74.00	9.08
2 389.94	49.79	Average	H	27.62	4.86	42.75	10.28	0.88	50.68	54.00	3.32
2 388.15	62.31	Peak	V	27.62	4.86	42.75	10.28	-	62.32	74.00	11.68
2 390.06	45.00	Average	V	27.62	4.86	42.75	10.28	0.88	45.89	54.00	8.11

Band	2.4 GHz		Mode			802.11n(HT40)			Tone	-	
Channel	CH 3		Frequency(MHz)			2 452			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)
2 486.07	60.37	Peak	H	27.60	5.52	42.73	10.28	-	61.04	74.00	12.96
2 484.06	46.54	Average	H	27.60	5.52	42.73	10.28	0.88	48.09	54.00	5.91
2 486.07	60.53	Peak	V	27.60	5.52	42.73	10.28	-	61.20	74.00	12.80
2 483.53	45.97	Average	V	27.60	5.52	42.73	10.28	0.88	47.52	54.00	6.48

9.9.2 Test data for DC 24 V

Band	2.4 GHz		Mode			802.11b			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			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)
2 388.00	61.90	Peak	H	27.62	4.86	42.75	10.28	-	61.91	74.00	12.09
2 386.98	48.05	Average	H	27.63	4.86	42.75	10.28	0.12	48.19	54.00	5.81
2 376.59	61.17	Peak	V	27.65	4.86	42.76	10.28	-	61.20	74.00	12.80
2 390.04	45.19	Average	V	27.62	4.86	42.75	10.28	0.12	45.32	54.00	8.68

Band	2.4 GHz		Mode			802.11b			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			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)
2 483.89	56.46	Peak	H	27.60	5.52	42.73	10.28	-	57.13	74.00	16.87
2 483.54	45.60	Average	H	27.60	5.52	42.73	10.28	0.12	46.39	54.00	7.61
2 483.70	54.68	Peak	V	27.60	5.52	42.73	10.28	-	55.35	74.00	18.65
2 483.51	44.7	Average	V	27.60	5.52	42.73	10.28	0.12	45.49	54.00	8.51

Band	2.4 GHz		Mode			802.11g			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			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)
2389.74	66.13	Peak	H	27.62	4.86	42.75	10.28	-	66.14	74.00	7.86
2390.04	50.79	Average	H	27.62	4.86	42.75	10.28	0.27	51.07	54.00	2.93
2390.04	63.66	Peak	V	27.62	4.86	42.75	10.28	-	63.67	74.00	10.33
2390.04	49.48	Average	V	27.62	4.86	42.75	10.28	0.27	49.76	54.00	4.24

Band	2.4 GHz		Mode			802.11g			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			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)
2483.58	61.59	Peak	H	27.60	5.52	42.73	10.28	-	62.26	74.00	11.74
2483.70	47.72	Average	H	27.60	5.52	42.73	10.28	0.27	48.66	54.00	5.34
2484.83	62.02	Peak	V	27.60	5.52	42.73	10.28	-	62.69	74.00	11.31
2483.73	47.61	Average	V	27.60	5.52	42.73	10.28	0.27	48.55	54.00	5.45

Band	2.4 GHz		Mode			802.11n(HT20)			Tone	-	
Channel	CH 1		Frequency(MHz)			2 412			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)
2 390.04	62.29	Peak	H	27.62	4.86	42.75	10.28	-	62.30	74.00	11.70
2 390.04	48.42	Average	H	27.62	4.86	42.75	10.28	0.42	48.85	54.00	5.15
2 388.31	59.65	Peak	V	27.62	4.86	42.75	10.28	-	59.66	74.00	14.34
2 389.43	44.26	Average	V	27.62	4.86	42.75	10.28	0.42	44.69	54.00	9.31

Band	2.4 GHz		Mode			802.11n(HT20)			Tone	-	
Channel	CH 11		Frequency(MHz)			2 462			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)
2 484.76	59.77	Peak	H	27.60	5.52	42.73	10.28	-	60.44	74.00	13.56
2 483.54	44.58	Average	H	27.60	5.52	42.73	10.28	0.42	45.67	54.00	8.33
2 484.99	60.01	Peak	V	27.60	5.52	42.73	10.28	-	60.68	74.00	13.32
2 483.62	45.41	Average	V	27.60	5.52	42.73	10.28	0.42	46.50	54.00	7.50

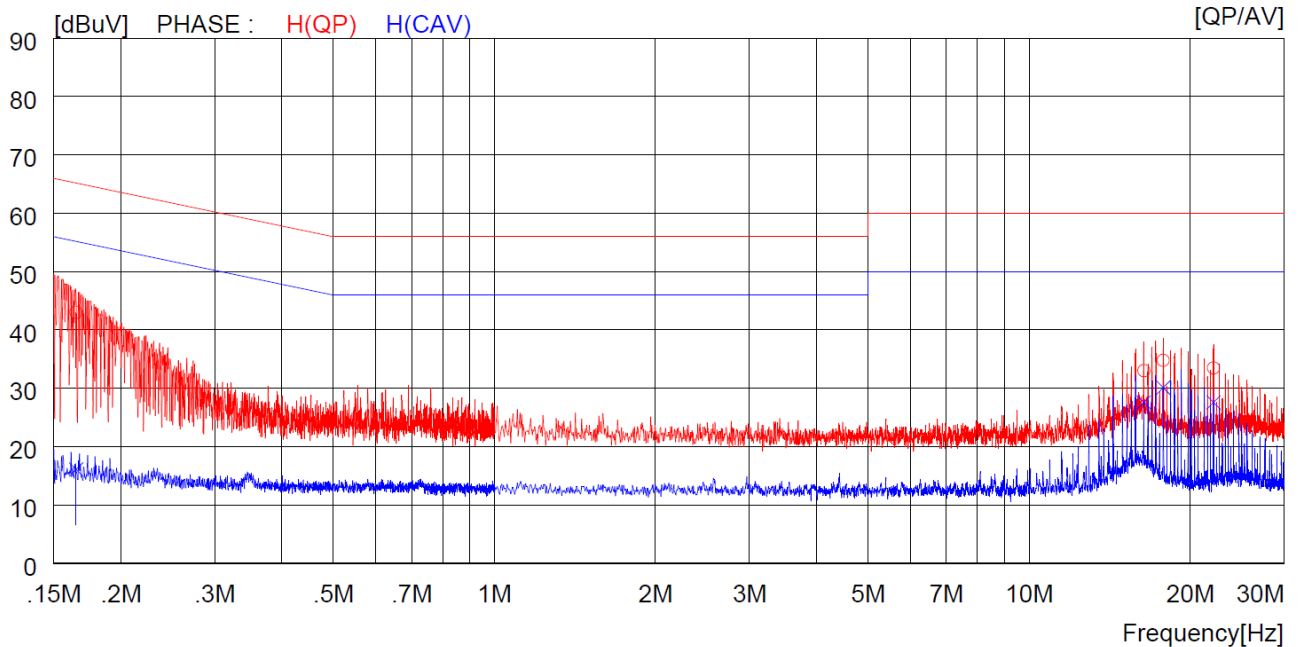
Band	2.4 GHz		Mode			802.11n(HT40)			Tone	-	
Channel	CH 1		Frequency(MHz)			2 422			RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
2 389.50	64.60	Peak	H	27.62	4.86	42.75	10.28	-	64.61	74.00	9.39
2 389.50	51.23	Average	H	27.62	4.86	42.75	10.28	0.88	52.12	54.00	1.88
2 387.71	63.25	Peak	V	27.62	4.86	42.75	10.28	-	63.26	74.00	10.74
2 389.05	46.26	Average	V	27.62	4.86	42.75	10.28	0.88	47.15	54.00	6.85

Band	2.4 GHz		Mode			802.11n(HT40)				Tone	-	
Channel	CH 3		Frequency(MHz)			2 452				RU offset	-	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	RBW Factor	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
2 483.53	53.02	Peak	H	27.60	5.52	42.73	10.28	10.00	-	63.69	74.00	10.31
2 484.10	39.04	Average	H	27.60	5.52	42.73	10.28	10.00	0.88	50.59	54.00	3.41
2 488.23	59.31	Peak	V	27.60	5.52	42.73	10.28	-	-	59.98	74.00	14.02
2 483.58	46.65	Average	V	27.60	5.52	42.73	10.28	-	0.88	48.20	54.00	5.80

9.10 AC Power line Conducted Emissions

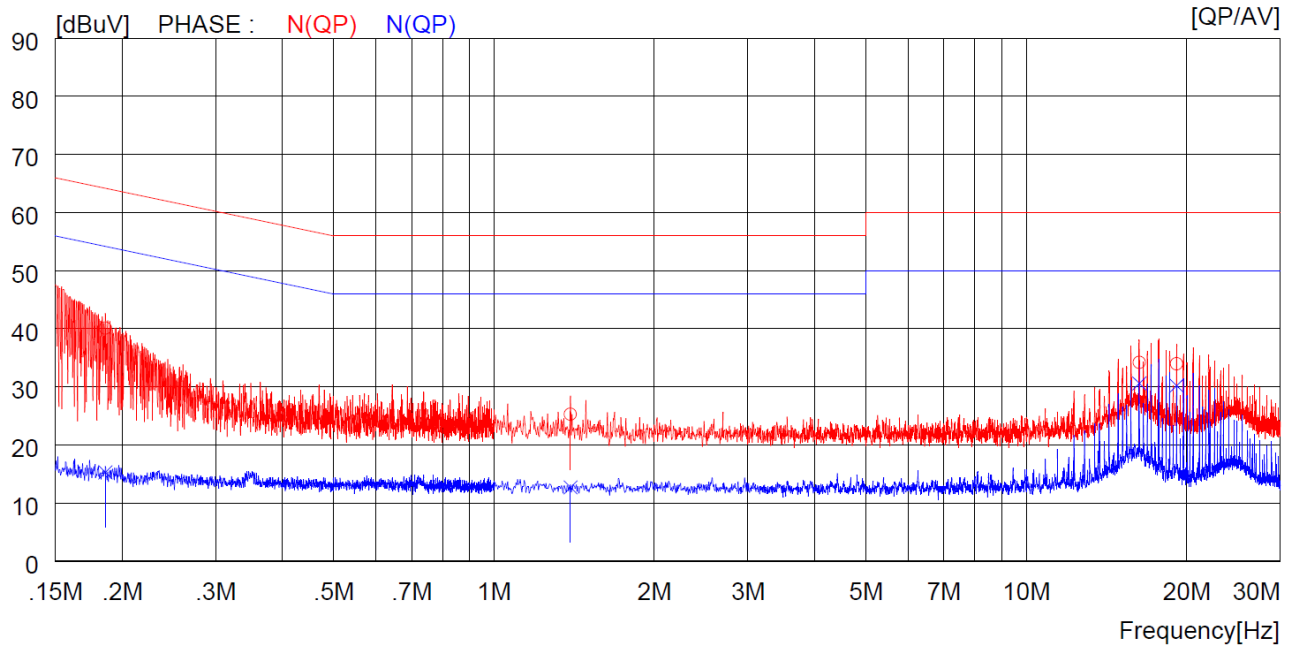
9.10.1 Test data for DC 12 V

-. 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	0.16500	33.0	----	10.0	43.0	----	65.2	----	22.2	----	H (QP)
2	16.39000	22.5	----	10.5	33.0	----	60.0	----	27.0	----	H (QP)
3	17.82000	24.3	----	10.5	34.8	----	60.0	----	25.2	----	H (QP)
4	22.12000	22.8	----	10.7	33.5	----	60.0	----	26.5	----	H (QP)
5	0.16500	----	6.1	10.0	----	16.1	----	55.2	----	39.1	H (CAV)
6	16.39000	----	17.1	10.5	----	27.6	----	50.0	----	22.4	H (CAV)
7	17.82000	----	19.6	10.5	----	30.1	----	50.0	----	19.9	H (CAV)
8	22.12000	----	16.9	10.7	----	27.6	----	50.0	----	22.4	H (CAV)

-. Tested Line : NEUTRAL LINE



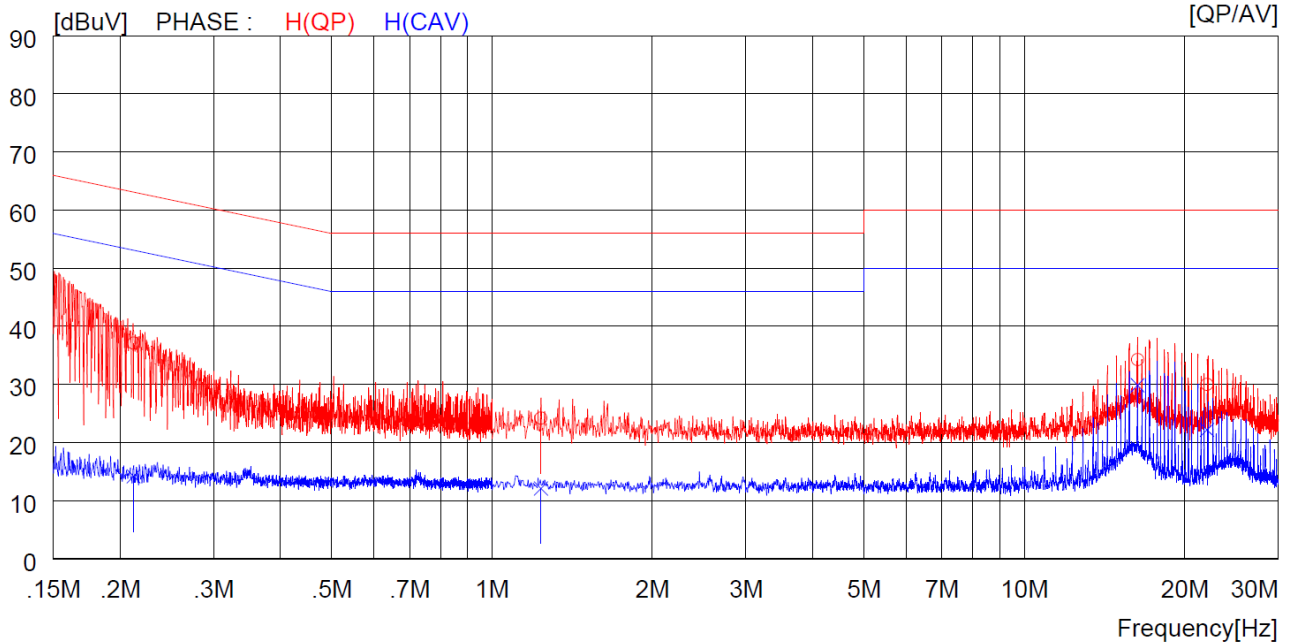
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18600	30.1	----	10.0	40.1	----	64.2	----	24.1	----	N (QP)
2	1.39200	15.3	----	10.0	25.3	----	56.0	----	30.7	----	N (QP)
3	16.30000	23.7	----	10.5	34.2	----	60.0	----	25.8	----	N (QP)
4	19.16000	23.5	----	10.5	34.0	----	60.0	----	26.0	----	N (QP)
5	0.18600	----	5.3	10.0	----	15.3	----	54.2	----	38.9	N (CAV)
6	1.39200	----	2.7	10.0	----	12.7	----	46.0	----	33.3	N (CAV)
7	16.30000	----	20.1	10.5	----	30.6	----	50.0	----	19.4	N (CAV)
8	19.16000	----	19.7	10.5	----	30.2	----	50.0	----	19.8	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.

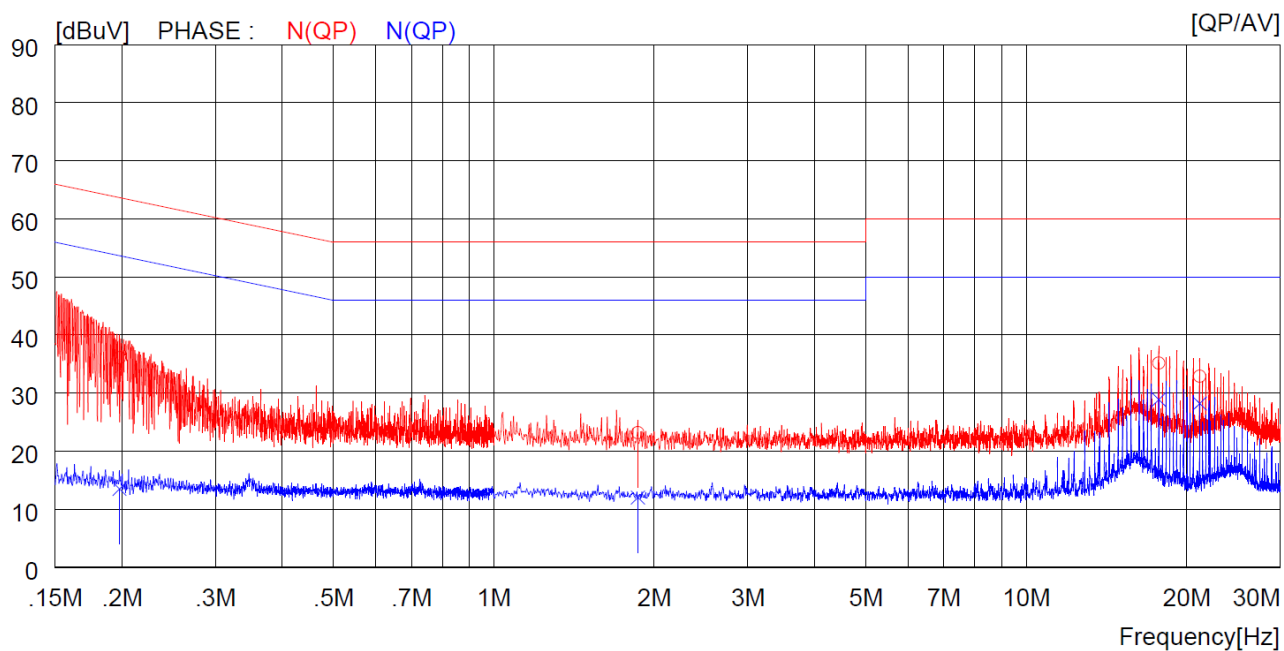
9.10.1 Test data for DC 24 V

-. 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	0.21200	27.1	----	10.0	37.1	----	63.1	----	26.0	----	H (QP)
2	1.23600	14.2	----	10.0	24.2	----	56.0	----	31.8	----	H (QP)
3	16.32000	23.8	----	10.5	34.3	----	60.0	----	25.7	----	H (QP)
4	22.04000	19.3	----	10.7	30.0	----	60.0	----	30.0	----	H (QP)
5	0.21200	----	4.2	10.0	----	14.2	----	53.1	----	38.9	H (CAV)
6	1.23600	----	2.1	10.0	----	12.1	----	46.0	----	33.9	H (CAV)
7	16.32000	----	19.4	10.5	----	29.9	----	50.0	----	20.1	H (CAV)
8	22.04000	----	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	0.19800	26.1	----	10.0	36.1	----	63.7	----	27.6	----	N (QP)
2	1.86400	13.2	----	10.0	23.2	----	56.0	----	32.8	----	N (QP)
3	17.74000	24.7	----	10.5	35.2	----	60.0	----	24.8	----	N (QP)
4	21.16000	22.3	----	10.6	32.9	----	60.0	----	27.1	----	N (QP)
5	0.19800	----	3.5	10.0	----	13.5	----	53.7	----	40.2	N (CAV)
6	1.86400	----	2.0	10.0	----	12.0	----	46.0	----	34.0	N (CAV)
7	17.74000	----	18.4	10.5	----	28.9	----	50.0	----	21.1	N (CAV)
8	21.16000	----	17.6	10.6	----	28.2	----	50.0	----	21.8	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.