Autel Digital Power Co., Ltd.

RF TEST REPORT

REPORT TYPE:
FCC Part 15.225 & ISED RSS-210 RF Report

MODEL:
Maxi UW19L002, Maxi UW19C002
Maxi UW19LJ02, Maxi UW19CJ02
Maxi UW19LB02, Maxi UW19L0N2
Maxi UW19C0N2, Maxi UW19LJN2
Maxi UW19CJN2, Maxi UW19LBN2

REPORT NUMBER:
241000094SHA-001

ISSUE DATE:
November 1, 2024

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 241000094SHA-001

Applicant:	Autel Digital Power Co., Ltd. Floors 1, 2, 3 and 6, Caihong Keji Building 36 Hi-tech North Six Road Songpingshan Community, Xili Sub-district Nanshan District, Shenzhen, Guangdong 518057, China
Manufacturer:	Autel Digital Power Co., Ltd. Floors 1, 2, 3 and 6, Caihong Keji Building 36 Hi-tech North Six Road Songpingshan Community, Xili Sub-district Nanshan District, Shenzhen, Guangdong 518057, China
Factory1:	Autel Digital Power Co., Ltd. Guangming Branch Rooms 101 and 501, Building 2, Huaxing Optoelectronics Industrial Park, Dongkeng Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong Province, China
Factory2:	Autel Viet Nam New Energy Technology Company Limited Factory B&C, Lot IN3-11*B, VSIP Hai Phong Township, Industrial & Service Park, in Dinh Vu-Cat Hai Economic Zone, Lap Le Commune Thuy Nguyen District, Hai Phong City 04300, Vietnam
FCC ID:	2BHGJ-MAXCHG80A
IC:	28321-MAXCHG80A

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
47CFR Part 15 (2023): Radio Frequency Devices (Subpart C) **ANSI C63.10 (2020)**: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices **RSS-210 Issue 10 (December 2019):** Licence-Exempt Radio Apparatus: Category I Equipment **RSS-Gen Issue 5, Amendment 1 (March 2019):** General Requirements for Compliance of Radio Apparatus

PREPARED BY:	**REVIEWED BY:**
Project Engineer	Reviewer
Scout Gong	Eric Li

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TEST REPORT

Content

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
230800707SHA-001	Rev. 01	Initial issue of report	July 17, 2024
241000094SHA-001	Rev. 01	Two optional power modules are added. Both new types were tested. The test data were listed in this report.	November 1, 2024

Measurement Result Summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Spurious emission	15.225(d)	RSS 210 B.6	Pass
Conducted emissions	15.207	RSS-Gen Issue 5 Clause 8.8	Pass
Antenna requirement	15.203	RSS-GEN 6.8	Pass

Notes:

1. *NA =Not Applicable*
2. *The determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.*
3. *Additions, Deviations and Exclusions from Standards: None.*

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	EV Charger
Type/Model:	Maxi UW19L002, Maxi UW19C002, Maxi UW19LJ02, Maxi UW19CJ02, Maxi UW19LB02, Maxi UW19L0N2, Maxi UW19C0N2, Maxi UW19LJN2, Maxi UW19CJN2, Maxi UW19LBN2
Description of EUT:	The EUT covered in the report is an EV charger. RFID card reader is incorporated in model for process control. There are 10 models, the difference among all the models is listed in appendix I. This report added the test data of the new types from optional power modules. Here is the certificate information about the wireless modules which EUT equipped. Model Maxi UW19L002 was tested as representative. For the WIFI/Bluetooth module: FCC ID: XMR202102FC21 and IC: 10224A-202112FC21 For the Wi-sun module, FCC ID: 2BFLD-S9 and IC: 32294-S9 For the LTE module, FCC ID: XMR2023EG915QNA and IC: 10224A-023EG915QNA
Rating:	Input/Output Rating: 208/240V AC, 50/60Hz, 80A
EUT type:	☒ Tabletop ☐ Floor standing
Software Version:	/
Hardware Version:	/
Serial numbers:	A241014-24-001
Sample received date:	October 14, 2024
Date of test:	October 14, 2024 – November 1, 2024

1.2 Technical Specification

Frequency Range:	13.56 MHz ~ 13.56 MHz
Modulation:	ASK
Antenna:	PCB antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2023)
ANSI C63.10 (2020)
RSS-210 Issue 10 (December 2019)
RSS-Gen Issue 5, Amendment 1 (March 2019)

2.2 Mode of operation during the test

While testing, the internal modulation and continuous transmission was applied.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	SKET Auto EMC Test Software	Keleto	V3.0
Radiated emission	SKET Auto EMC Test Software	Keleto	V3.0

2.4 Test peripherals list

Item No	Description	Band and Model	S/No
-	-	-	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Radiated emission	26°C	53% RH
Power line conducted emission	27°C	53% RH

2.6 Instrument list

Conducted Emission						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Test Receiver	R&S	ESR7	EC 6194	2024-02-28	2025-02-27
☒	A.M.N.	R&S	ESH2-Z5	EC 3119	2023-11-20	2024-11-19
☒	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2023-12-08	2024-12-07
☒	Shielded room	Zhongyu	-	EC 2838	2024-01-12	2025-01-11
Radiated Emission						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2023-11-23	2024-11-22
☒	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2024-09-12	2025-09-11
☒	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2024-08-11	2025-08-10
☒	Semi-anechoic chamber	Albatross project	-	EC 3048	2024-07-12	2026-07-11
RF test						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Spectrum Analyzer	Keysight	N9030B	EC 6078	2024-03-19	2025-03-18
☒	Climate chamber	GWS	MT3065	EC 6021	2024-03-08	2025-03-07
Additional instrument						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Thermo-Hygrograph	Testo	175h1	EC 6640	2024-08-30	2025-08-29
☒	Thermo-Hygrograph	Testo	175h1	EC 6643	2024-08-30	2025-08-29

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Frequency	Expanded Uncertainty (k=2)
Conducted emission at mains ports	9kHz ~ 150kHz	3.52 dB
	150kHz ~ 30MHz	3.19 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	3.06 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.02 dB
	6GHz ~ 18GHz	5.28 dB

3 Fundamental Emission

Test result: **PASS**

3.1 Limit

Frequencies (MHz)	Limit at 30m (dBuV/m)	Limit at 3m (dBuV/m)
13.110 – 13.410	40.50	80.50
13.410 – 13.553	50.50	90.50
13.553 – 13.567	84.00	124.00
13.567 – 13.710	50.50	90.50
13.710 – 14.010	40.50	80.50

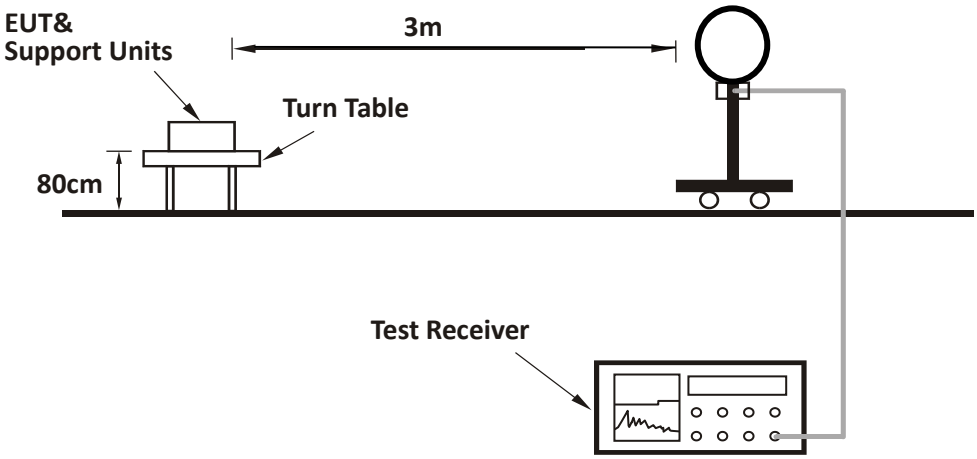
3.2 Measurement Procedure

a) The EUT was placed on a 0.8m plank above the ground at a 3-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) Both X and Y axes of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to PK Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

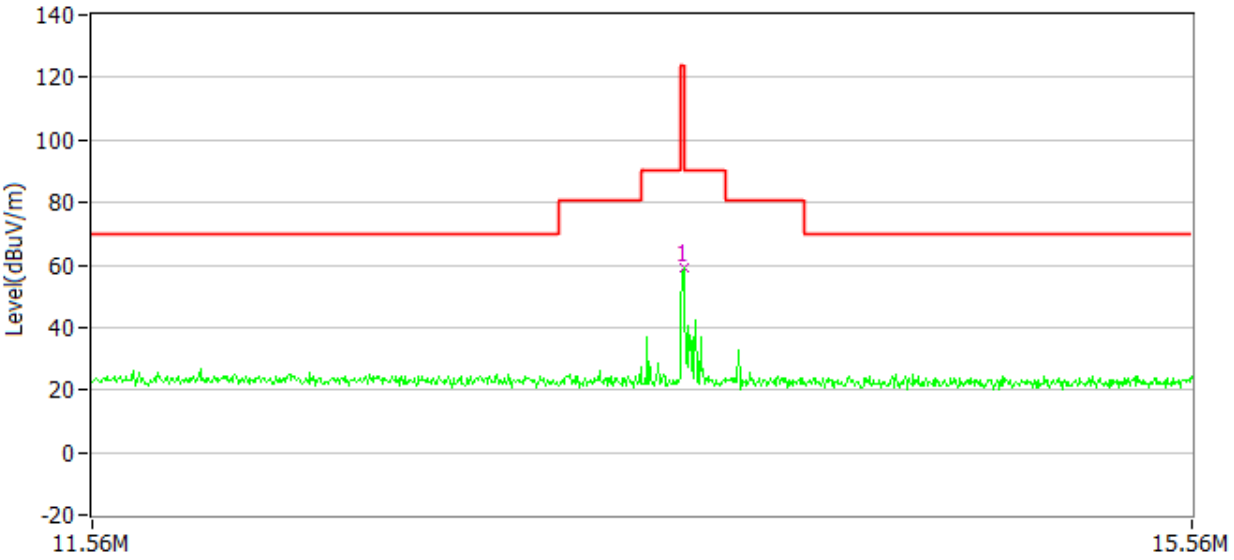
3.3 Test Configuration



3.4 Test Results of Fundamental Emissions

Model Maxi UW19L0002 equipped with optional power module 1:

Antenna Polarization: Y axis



Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
Y	13.56	59.00	19.10	124.00	65.00	PK

Remark:

1. *Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically*
2. *Corrected Reading = Original Receiver Reading + Correct Factor*
3. *Margin = Limit - Corrected Reading*

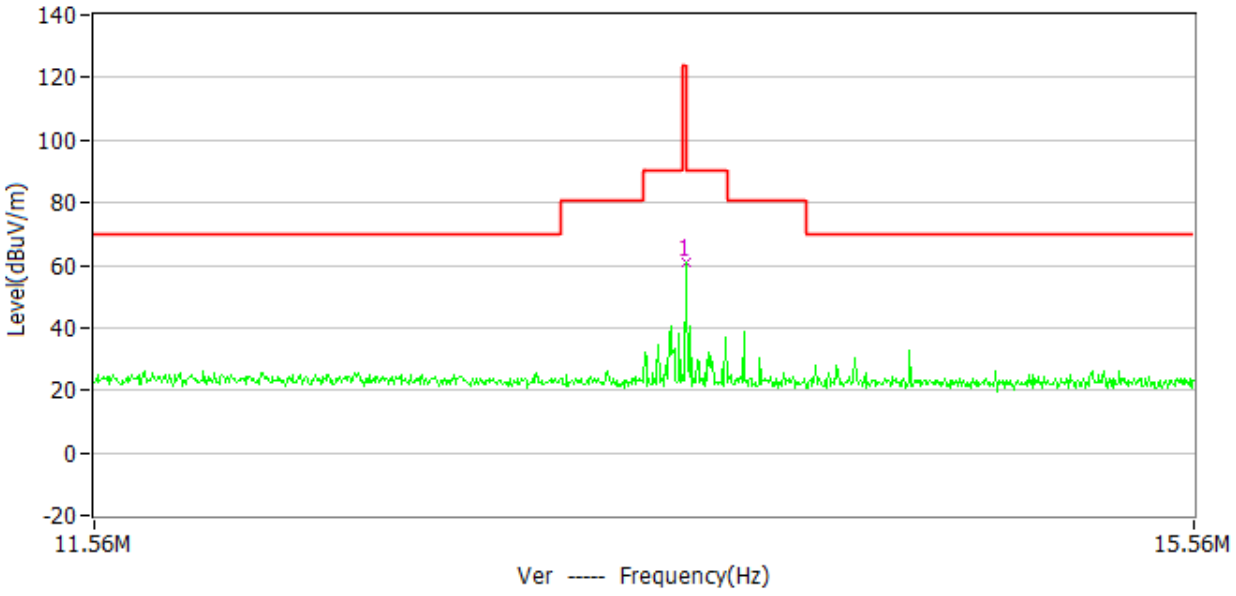
Example:

Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV
Limit = 40.00dBuV/m
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB

TEST REPORT

Model Maxi UW19L0002 equipped with optional power module 2:

Antenna Polarization: Y axis



Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
Y	13.56	**60.80**	19.10	124.00	63.20	PK

Remark:

4. *Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically*
5. *Corrected Reading = Original Receiver Reading + Correct Factor*
6. *Margin = Limit - Corrected Reading*

Example:

Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV
Limit = 40.00dBuV/m
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB

4 Spurious Emission

Test result: **PASS**

4.1 Limit

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

4.2 Measurement Procedure

For Radiated emission below 30MHz:

f) The EUT was placed on a 0.8m plank above the ground at a 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
g) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
h) Both X and Y axes of the antenna are set to make the measurement.
i) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
j) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

TEST REPORT

For Radiated emission above 30MHz:

a) The EUT was placed on a 0.8m plank above the ground at a 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

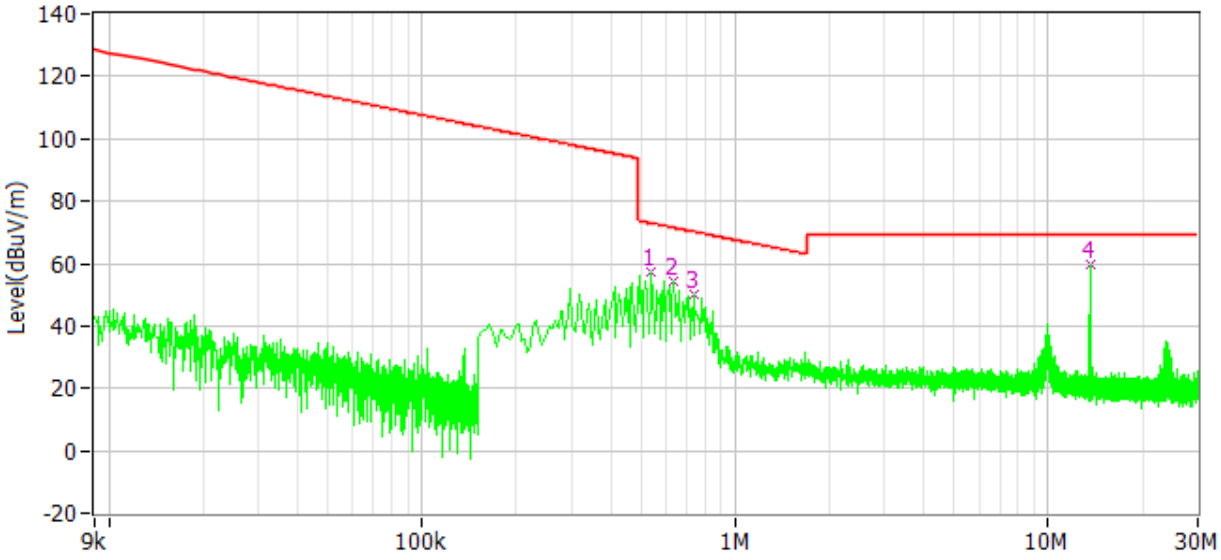
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. All modes of operation were evaluated and the worst-case emissions were reported

4.3 Test Results of Radiated Emissions

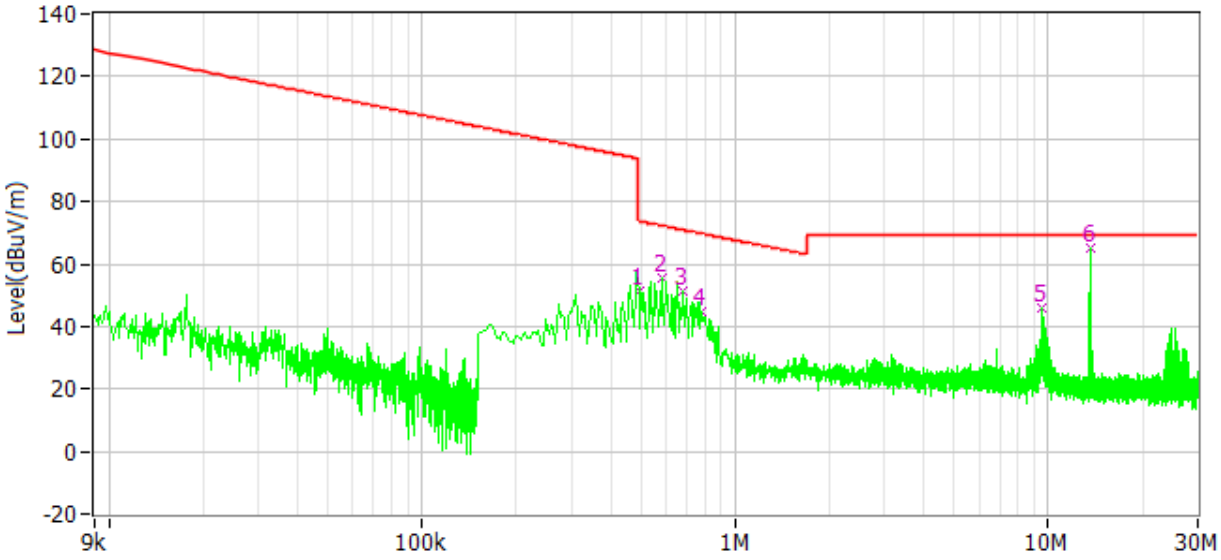
Model Maxi UW19L0002 equipped with optional power module 1:

Test Curve (below 30MHz):

Antenna Polarization: X axis

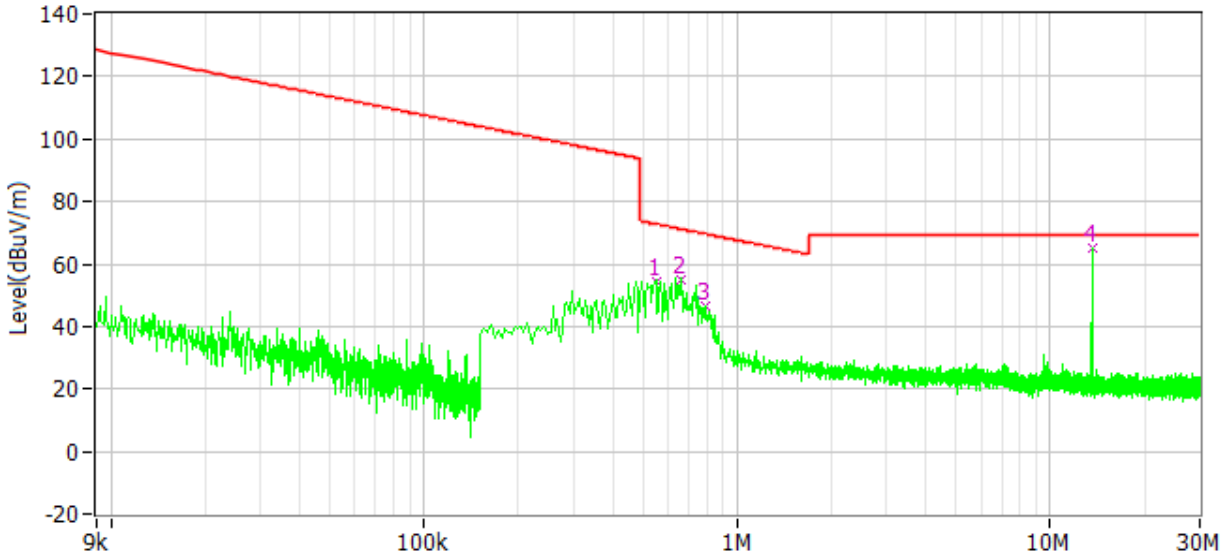


Antenna Polarization: Y axis



TEST REPORT

Antenna Polarization: Z axis



Test data below 30MHz:

Frequency	Limit (dBuV/m)	Corrected Reading (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Detector	Polarity
541.500kHz	72.90	57.20	15.70	38.30	18.90	PK	X
631.500kHz	71.60	54.20	17.40	35.30	18.90	PK	X
735.000kHz	70.30	49.90	20.40	31.00	18.90	PK	X
492.000kHz	73.80	51.50	22.30	32.60	18.90	PK	Y
582.000kHz	72.30	55.50	16.80	36.60	18.90	PK	Y
681.000kHz	70.90	51.60	19.30	32.70	18.90	PK	Y
784.500kHz	69.70	44.80	24.90	25.90	18.90	PK	Y
9.587MHz	69.50	45.80	23.70	26.70	19.10	PK	Y
550.500kHz	72.80	54.60	18.20	35.70	18.90	PK	Z
658.500kHz	71.20	55.20	16.00	36.30	18.90	PK	Z
793.500kHz	69.60	46.50	23.10	27.60	18.90	PK	Z

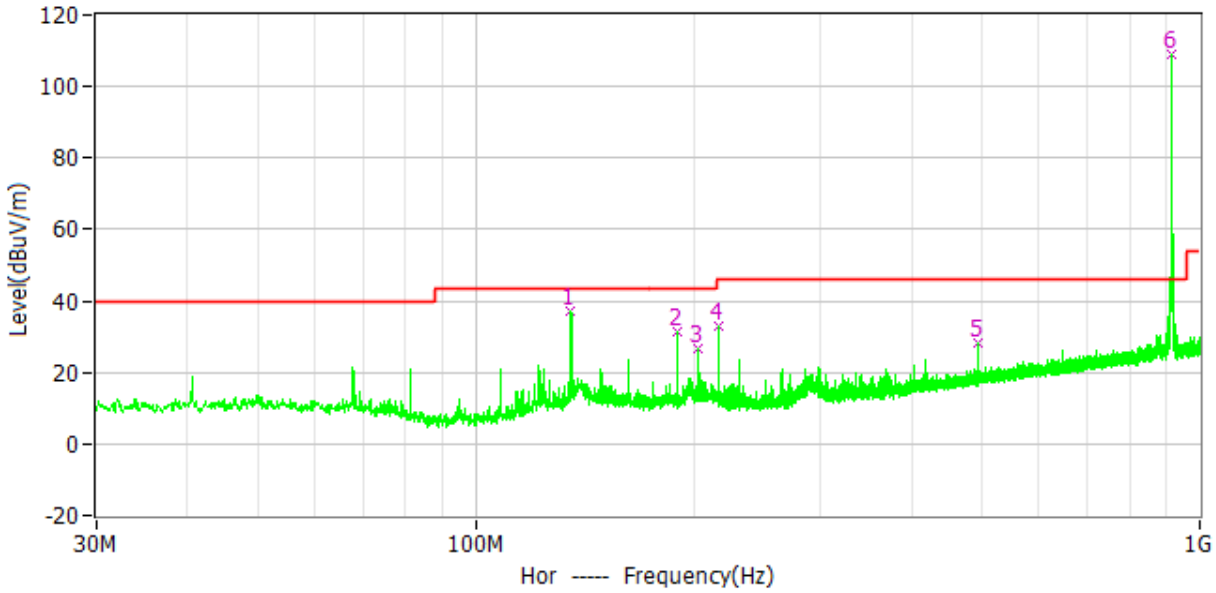
Remark:

1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

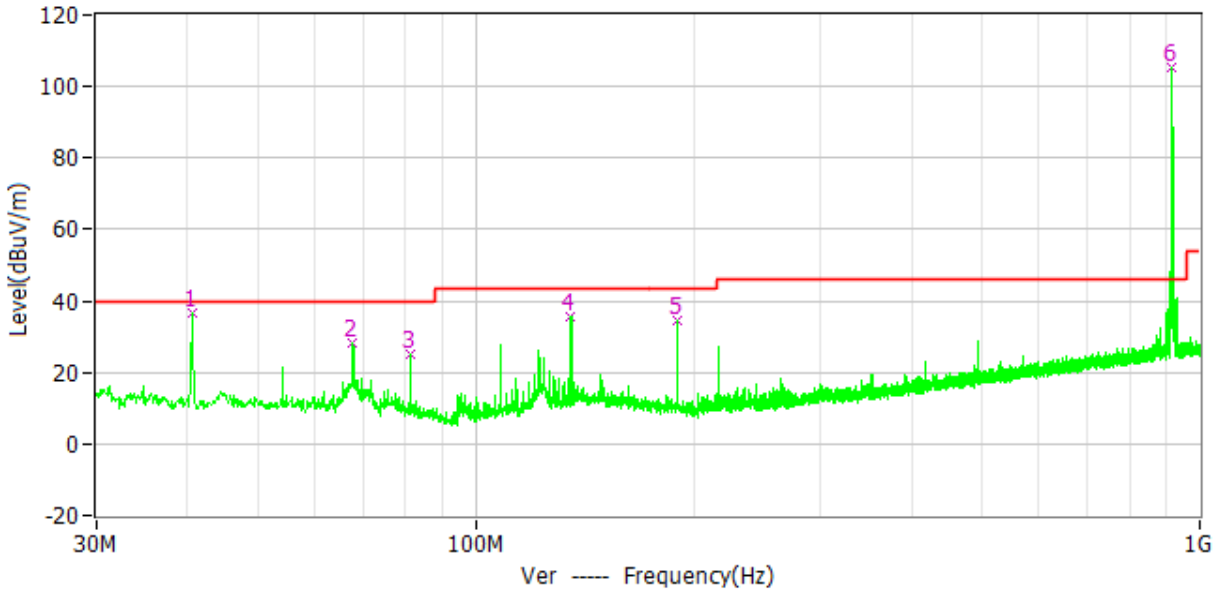
TEST REPORT

Test Curve (30MHz to 1000MHz):

Horizontal



Vertical



TEST REPORT

Test data (30MHz to 1000MHz)

Frequency (MHz)	Limit (dBuV/m)	Corrected Reading (dBuV/m)	Margin (dB)	Original Reading (dBuV)	Correct Factor (dB/m)	Detector	Polar
135.536	43.50	36.93	6.57	23.19	13.74	PK	Hor
189.953	43.50	31.52	11.98	19.12	12.40	PK	Hor
203.339	43.50	26.75	16.75	15.09	11.66	PK	Hor
216.919	46.00	33.07	12.93	20.84	12.23	PK	Hor
494.048	46.00	28.20	17.80	7.79	20.41	PK	Hor
915.000	-	108.81	-	81.56	27.25	PK	Hor
40.670	40.00	36.61	3.39	22.61	14.00	PK	Ver
67.733	40.00	27.98	12.02	15.22	12.76	PK	Ver
81.313	40.00	24.96	15.04	14.87	10.09	PK	Ver
135.536	43.50	35.68	7.82	21.94	13.74	PK	Ver
189.953	43.50	34.31	9.19	21.91	12.40	PK	Ver
915.000	-	105.23	-	77.96	27.27	PK	Ver

Note: The signal of 915 MHz was caused by the Wi-sun module. It is a wanted signal.

Remark:

1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example:

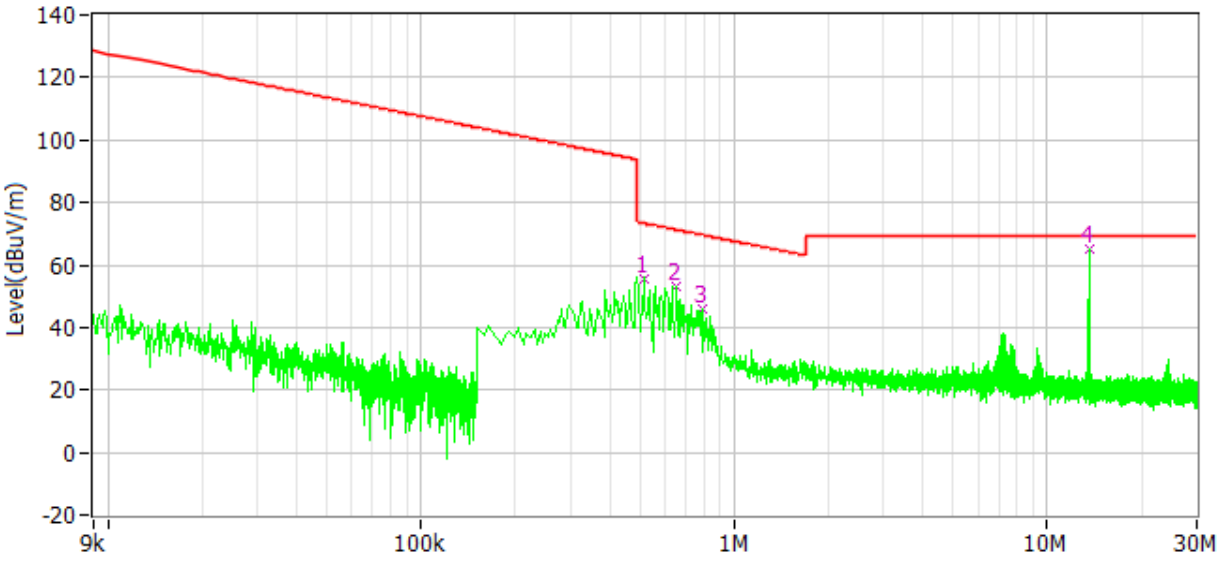
Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

TEST REPORT

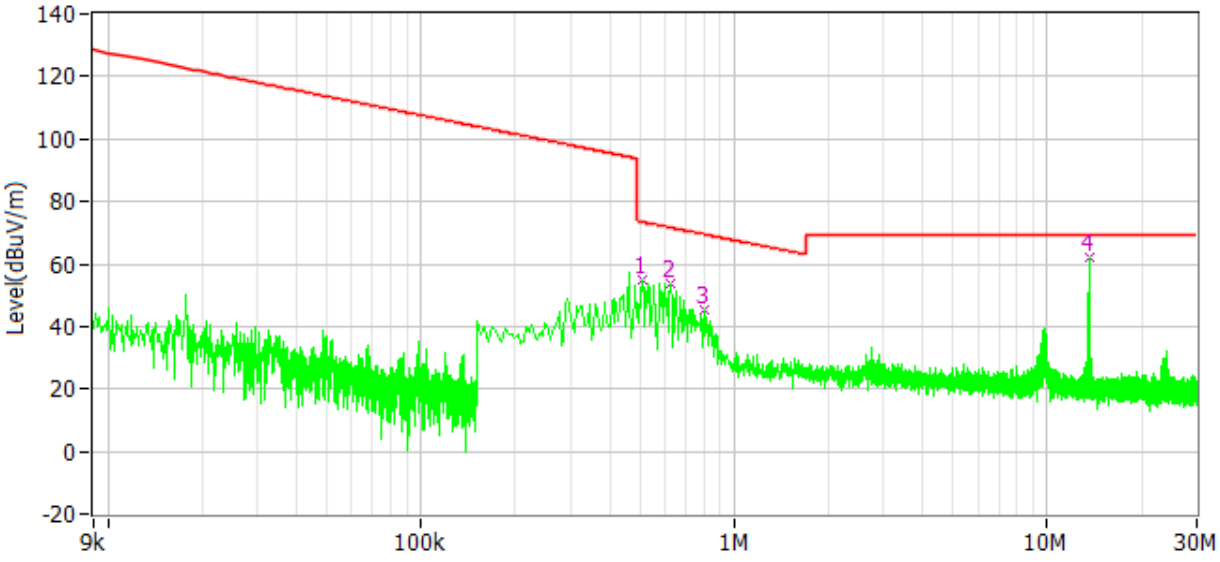
Model Maxi UW19L0002 equipped with optional power module 2:

Test Curve (below 30MHz):

Antenna Polarization: X axis

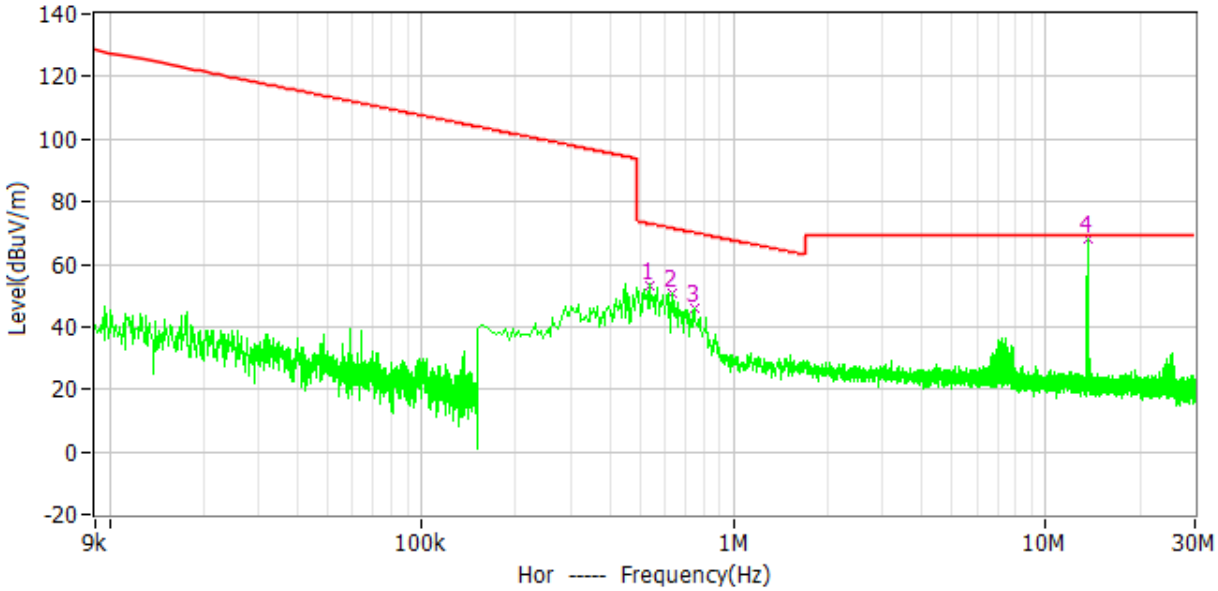


Antenna Polarization: Y axis



TEST REPORT

Antenna Polarization: Z axis



Test data below 30MHz:

Frequency	Limit (dBuV/m)	Corrected Reading (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Detector	Polarity
514.500kHz	73.40	55.80	17.60	36.90	18.90	PK	X
654.000kHz	71.30	53.10	18.20	34.20	18.90	PK	X
789.000kHz	69.70	45.70	24.00	26.80	18.90	PK	X
505.500kHz	73.50	55.10	18.40	36.20	18.90	PK	Y
622.500kHz	71.70	53.50	18.20	34.60	18.90	PK	Y
807.000kHz	69.50	45.10	24.40	26.20	18.90	PK	Y
537.000kHz	73.00	53.40	19.60	34.50	18.90	PK	Z
631.500kHz	71.60	50.50	21.10	31.60	18.90	PK	Z
748.500kHz	70.10	46.10	24.00	27.20	18.90	PK	Z

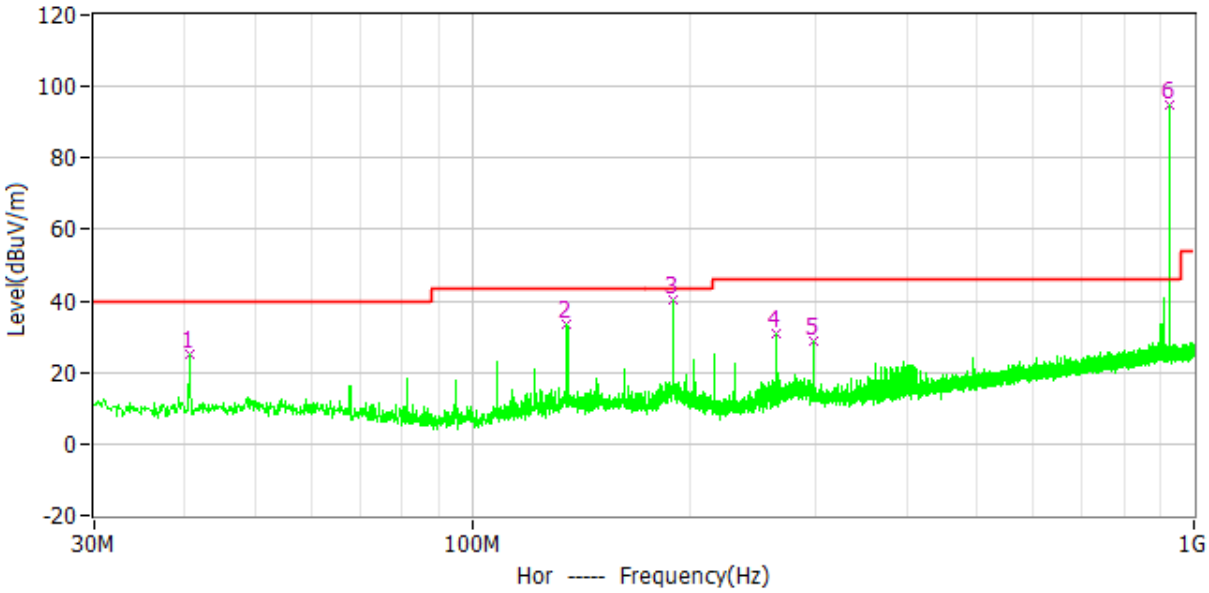
Remark:

5. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
6. Corrected Reading = Original Receiver Reading + Correct Factor
7. Margin = Limit - Corrected Reading
8. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

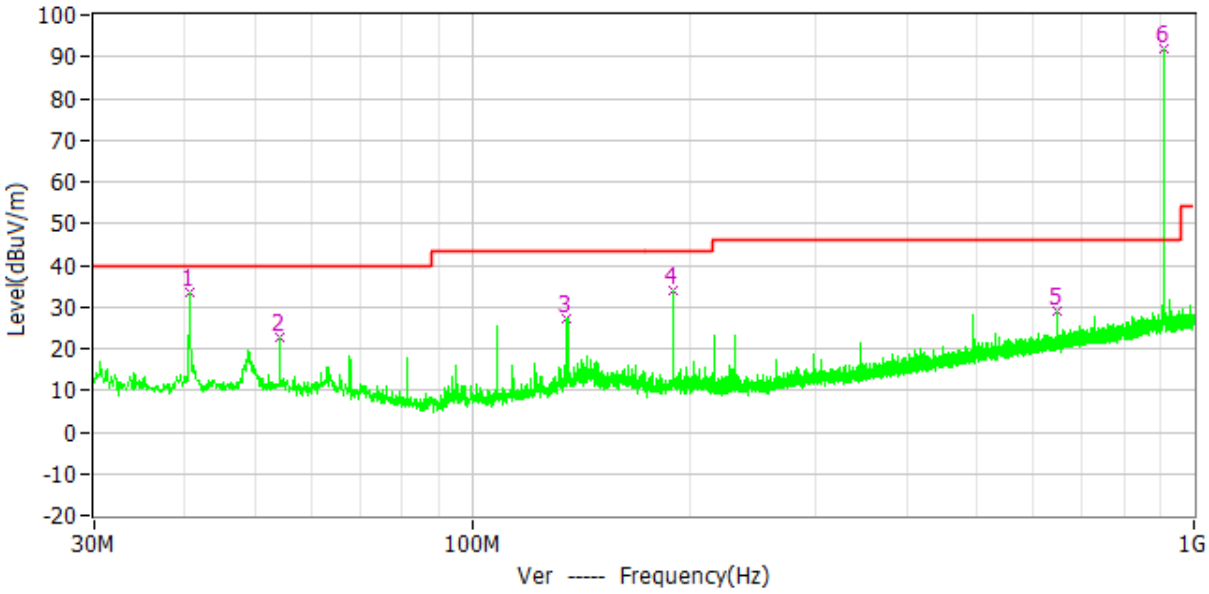
TEST REPORT

Test Curve (30MHz to 1000MHz):

Horizontal



Vertical



TEST REPORT

Test data (30MHz to 1000MHz)

Frequency (MHz)	Limit (dBuV/m)	Corrected Reading (dBuV/m)	Margin (dB)	Original Reading (dBuV)	Correct Factor (dB/m)	Detector	Polar
40.670	40.00	24.98	15.02	10.98	14.00	PK	Hor
135.536	43.50	33.33	10.17	19.59	13.74	PK	Hor
189.953	43.50	40.49	3.01	28.09	12.40	PK	Hor
263.964	46.00	30.82	15.18	16.71	14.11	PK	Hor
296.944	46.00	28.98	17.02	13.67	15.31	PK	Hor
924.825	-	94.70	-	67.37	27.33	PK	Hor
40.670	40.00	33.40	6.60	19.40	14.00	PK	Ver
54.250	40.00	22.71	17.29	8.45	14.26	PK	Ver
135.536	43.50	27.26	16.24	13.52	13.74	PK	Ver
189.953	43.50	33.88	9.62	21.48	12.40	PK	Ver
646.047	46.00	28.86	17.14	5.55	23.31	PK	Ver
908.044	-	91.71	-	64.51	27.20	PK	Ver

Note: The signal of 915 MHz was caused by the Wi-sun module. It is a wanted signal.

Remark:

5. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
6. Corrected Reading = Original Receiver Reading + Correct Factor
7. Margin = Limit - Corrected Reading
8. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example:

Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

5 Conducted emissions

Test result: **PASS**

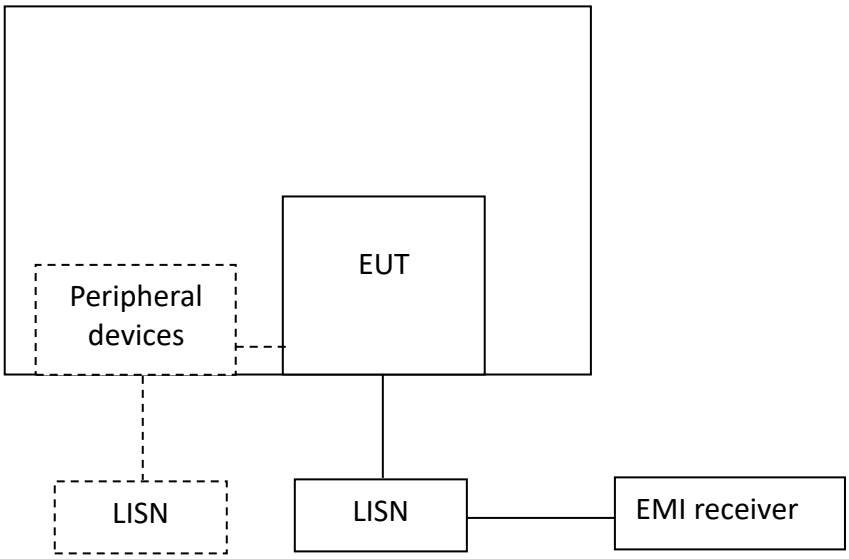
5.1 Limit

Frequency of Emission (MHz)	Conducted Emissions Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50

Note:

1. * Means the limit decreasing linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz
2. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

5.2 Test Configuration



5.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

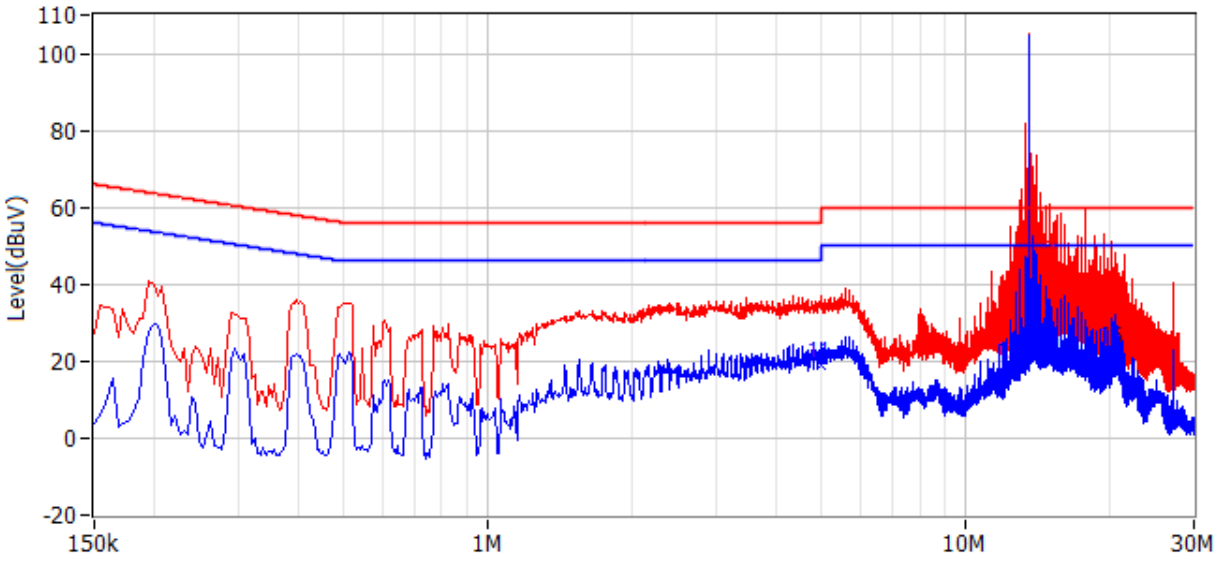
The bandwidth of the test receiver is set at 9 kHz.

TEST REPORT

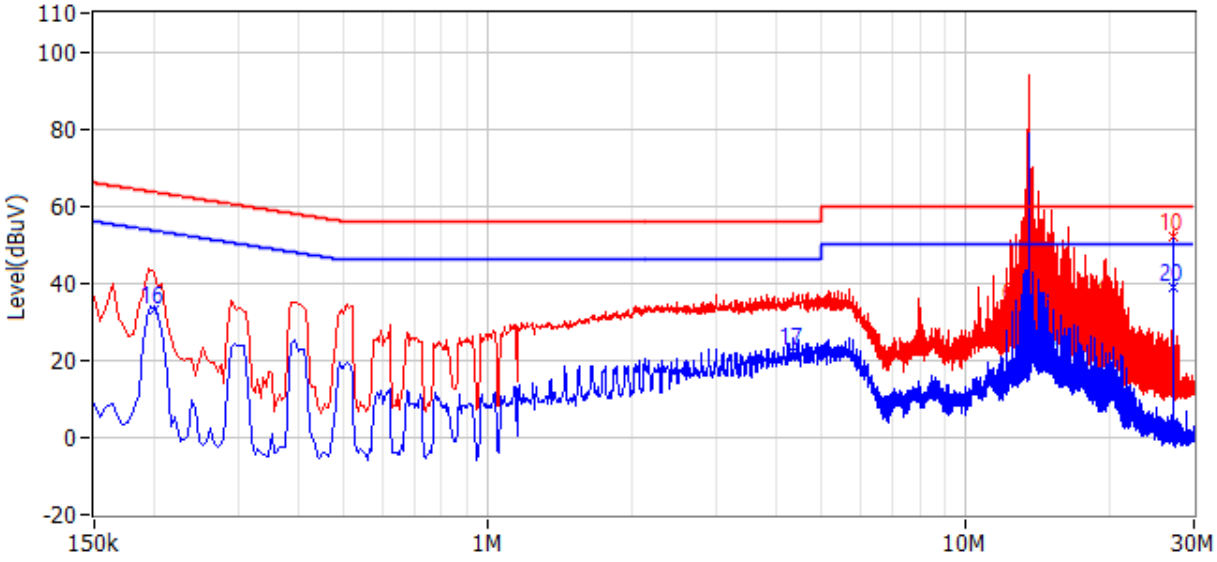
5.4 Test Results of Conducted Emissions

Model Maxi UW19L0002 equipped with optional power module 1:
Test Voltage: 240VAC/60Hz
Test Curve:

Line L1



Line L2



TEST REPORT

Frequency	Limit (dBuV)	Level (dBuV)	Delta (dB)	Original Receiver Reading (dBuV)	Correct Factor (dB)	Detector	Phase
12.291MHz	60.00	33.58	-26.42	26.78	6.80	QP	L1
15.122MHz	60.00	45.17	-14.83	38.27	6.90	QP	L1
17.727MHz	60.00	35.34	-24.66	28.24	7.10	QP	L1
19.428MHz	60.00	35.75	-24.25	28.55	7.20	QP	L1
21.611MHz	60.00	28.66	-31.34	21.36	7.30	QP	L1
12.440MHz	60.00	34.01	-25.99	27.21	6.80	QP	N
15.131MHz	60.00	37.02	-22.98	30.12	6.90	QP	N
16.827MHz	60.00	30.56	-29.44	23.56	7.00	QP	N
19.730MHz	60.00	34.81	-25.19	27.61	7.20	QP	N
27.119MHz	60.00	52.14	-7.86	44.54	7.60	QP	N
4.979MHz	46.00	18.76	-27.24	12.36	6.40	CAV	L1
12.435MHz	50.00	18.82	-31.18	12.02	6.80	CAV	L1
16.062MHz	50.00	20.07	-29.93	13.07	7.00	CAV	L1
17.835MHz	50.00	18.21	-31.79	11.11	7.10	CAV	L1
20.342MHz	50.00	23.02	-26.98	15.72	7.30	CAV	L1
199.500kHz	53.63	33.13	-20.50	26.93	6.20	CAV	N
4.349MHz	46.00	22.45	-23.55	16.15	6.30	CAV	N
14.807MHz	50.00	19.52	-30.48	12.62	6.90	CAV	N
16.809MHz	50.00	13.94	-36.06	6.94	7.00	CAV	N
27.123MHz	50.00	38.85	-11.15	31.25	7.60	CAV	N

Note: The signal of 13.56MHz was caused by the RFID module. It is a wanted signal.

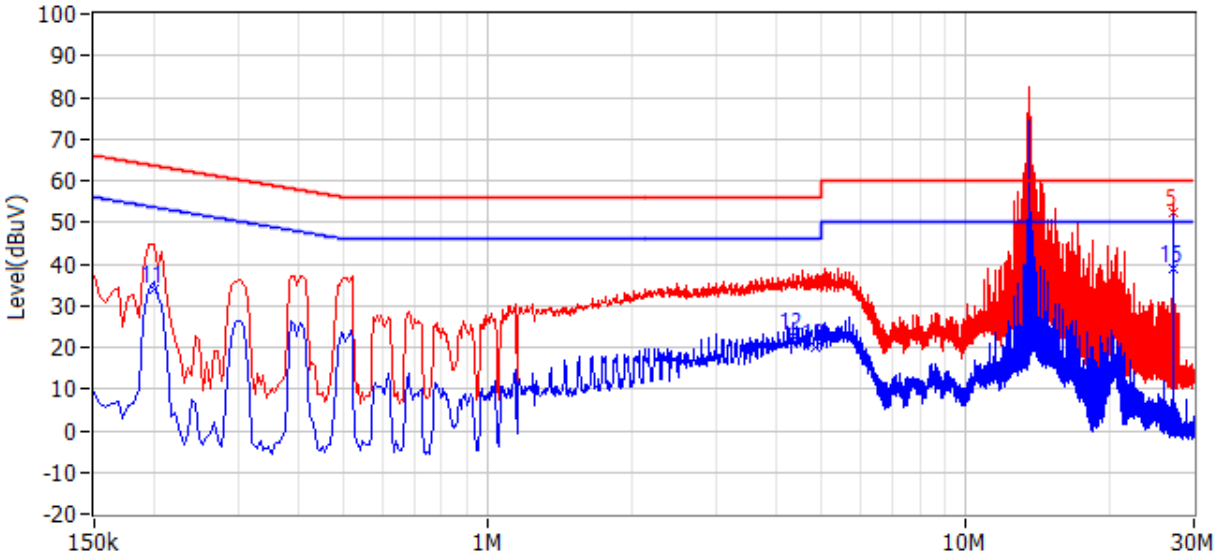
Remark:

1. *Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.*
2. *Level = Original Receiver Reading + Correct Factor*
3. *Delta = Level – Limit*
4. *If the PK Level is lower than AV limit, the AV test can be elided.*
5. *the emissions of 13.56MHz are the product's RF signal.*

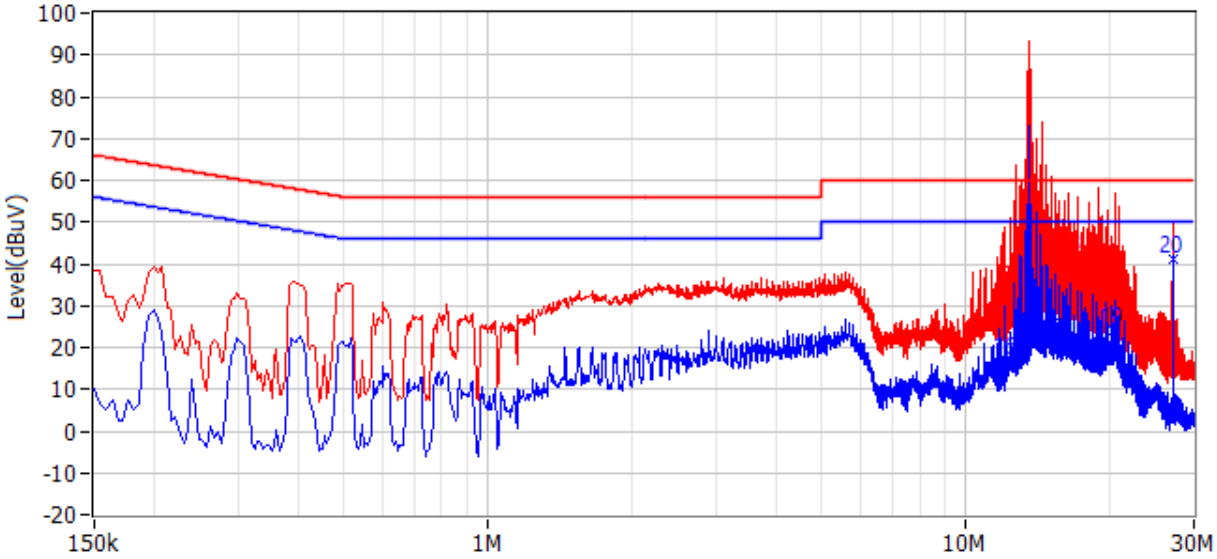
TEST REPORT

Model Maxi UW19L0002 equipped with optional power module 2:
Test Voltage: 240VAC/60Hz
Test Curve:

Line L1



Line L2



TEST REPORT

Frequency	Limit (dBuV)	Level (dBuV)	Delta (dB)	Original Receiver Reading (dBuV)	Correct Factor (dB)	Detector	Phase
12.282MHz	60.00	26.69	-33.31	19.89	6.80	QP	L1
15.383MHz	60.00	33.01	-26.99	26.01	7.00	QP	L1
17.079MHz	60.00	29.05	-30.95	21.95	7.10	QP	L1
19.851MHz	60.00	29.14	-30.86	21.84	7.30	QP	L1
27.123MHz	60.00	52.26	-7.74	44.56	7.70	QP	L1
12.291MHz	60.00	33.87	-26.13	27.07	6.80	QP	N
15.135MHz	60.00	43.01	-16.99	36.11	6.90	QP	N
17.160MHz	60.00	41.58	-18.42	34.48	7.10	QP	N
18.861MHz	60.00	38.35	-21.65	31.15	7.20	QP	N
21.183MHz	60.00	30.95	-29.05	23.65	7.30	QP	N
199.500kHz	53.63	33.79	-19.84	27.59	6.20	CAV	L1
4.353MHz	46.00	22.70	-23.30	16.40	6.30	CAV	L1
4.866MHz	46.00	20.10	-25.90	13.70	6.40	CAV	L1
14.861MHz	50.00	17.74	-32.26	10.84	6.90	CAV	L1
27.119MHz	50.00	38.88	-11.12	31.18	7.70	CAV	L1
12.156MHz	50.00	16.77	-33.23	9.97	6.80	CAV	N
15.293MHz	50.00	21.16	-28.84	14.26	6.90	CAV	N
17.097MHz	50.00	20.49	-29.51	13.39	7.10	CAV	N
20.342MHz	50.00	23.90	-26.10	16.60	7.30	CAV	N
27.119MHz	50.00	41.13	-8.87	33.53	7.60	CAV	N

Note: The signal of 13.56MHz was caused by the RFID module. It is a wanted signal.

Remark:

1. *Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.*
2. *Level = Original Receiver Reading + Correct Factor*
3. *Delta = Level – Limit*
4. *If the PK Level is lower than AV limit, the AV test can be elided.*
5. *the emissions of 13.56MHz are the product's RF signal.*

6 Antenna requirement

Requirement:
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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:
EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

Appendix I: Model Difference

Model	Maxi UW19L002	Maxi UW19C002	Maxi UW19LJ02	Maxi UW19CJ02	Maxi UW19LB02
Input/Output rating	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A
With or without LCD	With	With	Without	Without	Without
Connector Type	J1772	J1772	J1772	J1772	J1772
Charging Cable Length	7.5m (25ft)	6m (18ft)	7.5m (25ft)	6m (18ft)	7.5m (25ft)
4G Function	Support	Support	Support	Support	Not Support
Model	Maxi UW19L0N2	Maxi UW19C0N2	Maxi UW19LJN2	Maxi UW19CJN2	Maxi UW19LBN2
Input/Output rating	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A	208/240V AC 50/60Hz, 80A
With or without LCD	With	With	Without	Without	Without
Connector Type	NACS	NACS	NACS	NACS	NACS
Charging Cable Length	7.5m (25ft)	6m (18ft)	7.5m (25ft)	6m (18ft)	7.5m (25ft)
4G Function	Support	Support	Support	Support	Not Support

********** END **********