

Prüfbericht-Nr.: <i>Test report no.:</i>	CN237L5F 003	Auftrags-Nr.: <i>Order no.:</i>	168423348	Seite 1 von 18 Page 1 of 18
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-04-18	
Auftraggeber: <i>Client:</i>	Uniorange Internet Design Co., Ltd. No.113, Shanhai Road, Laishan District, Yantai City, Shandong			
Prüfgegenstand: <i>Test item:</i>	Intelligent Robot Vacuum and Mop Cleaner			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	ROB-02A1AT, ROB-02A1 (Trademark: Uniorange)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15.203 FCC 47 CFR Part 15.231 RSS-210 Issue 10 December 2019 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-05-17	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003473764-001			
Prüfzeitraum: <i>Testing period:</i>	2023-06-28 - 2023-07-18			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2023-08-11	Ausstellungsdatum: <i>Issue date:</i> 2023-08-11			
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2BBP9-QI2A IC: 30776-QI2A, HVIN: ROB-02A1			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 DEACTIVATION OF THE TRANSMISSION

RESULT: Pass

5.1.3 20dB EMISSION BANDWIDTH

RESULT: Pass

5.1.4 99%dB BANDWIDTH

RESULT: Pass

5.1.5 FIELD STRENGTH OF FUNDAMENTAL AND UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results.

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Signal Analyzer	R&S	FSV 40	101441	2023-08-01
OSP	R&S	OSP 150	101017	2023-11-21
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	2023-11-21
Wideband Power Sensor	R&S	NRP-Z81	105677	2023-08-01
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is an Intelligent Robot Vacuum and Mop Cleaner which contains a Host and a Cleaning dock. The Host supports Wi-Fi 2.4G, Wi-Fi 5G and 433MHz functions. Models ROB-02A1 and ROB-02A1AT are identical, except for model name and used with different cleaning dock.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Intelligent Robot Vacuum and Mop Cleaner
Type Designation:	ROB-02A1AT, ROB-02A1
Trademark:	Uniorange
FCC ID:	2BBP9-QI2A
IC:	30776-QI2A
HVIN:	ROB-02A1
PMN:	Intelligent Robot Vacuum and Mop Cleaner
Operating Voltage :	DC 14.4V input via internal battery
Testing Voltage:	Fully charged battery
Technical Specification of 433MHz	
Operating Frequency Band:	433.92MHz
Operating Frequencies:	433.92MHz
Modulation Type:	FSK
Antenna Type:	Integral Antenna
Antenna Gain :	0.05 dBi (Provided by the Client)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Transmitting with operating frequency 433.92MHz
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

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3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model ROB-02A1AT in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

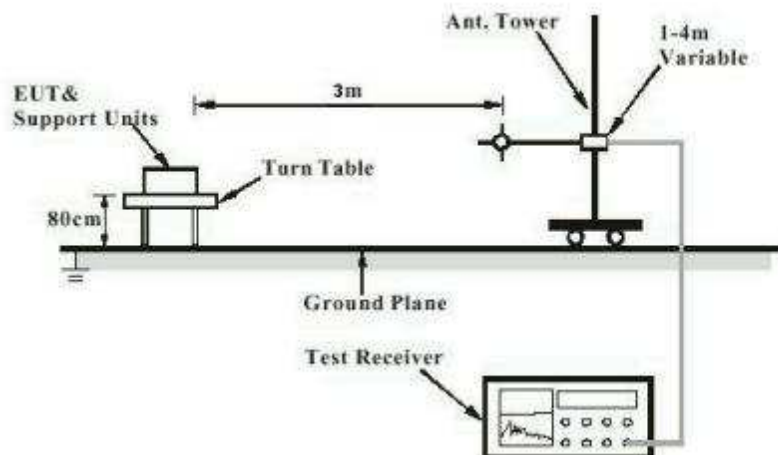


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

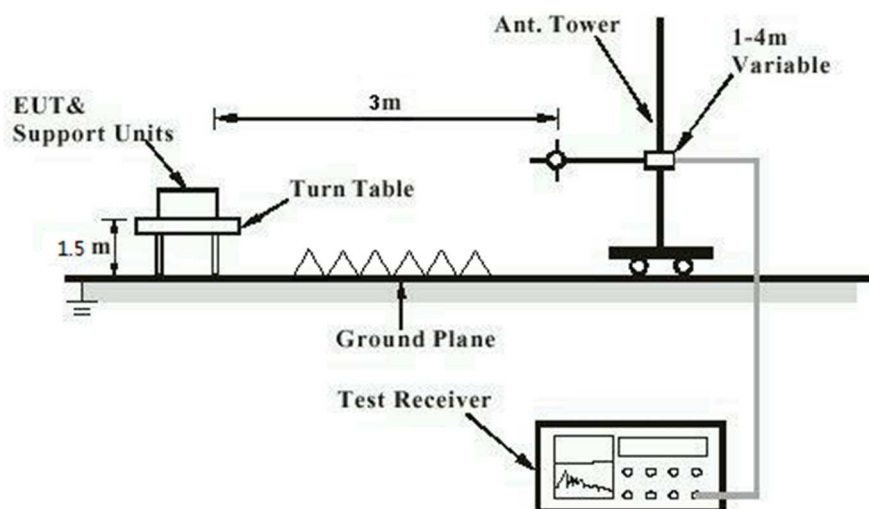


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Essential Requirements of Standard

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.203 RSS-Gen Clause 6.8
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

The EUT has an Integral Antenna, the directional gain of antenna is 0.05 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Deactivation of the Transmission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.231 RSS-Gen Issue 5
Basic standard	: ANSI C63.10: 2013
Test requirement	: FCC Part 15.231 (a)(2)
Limits	: A transmitter activated automatically shall cease transmission within 5 seconds after activation.
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-07-18
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: 24.3 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 20dB Emission Bandwidth

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.231 RSS-Gen Issue 5
Basic standard	:	ANSI C63.10: 2013
Test requirement	:	FCC Part 15.231 (c)
Limit	:	FCC Part 15.231 (c)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2023-07-12
Input voltage	:	Fully charged battery
Operation mode	:	A
Ambient temperature	:	24.3 °C
Relative humidity	:	51 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 99%dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen clause 6.7
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-07-12
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: 24.3 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.5 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.231 & FCC Part 15.205 & FCC Part 15.209 RSS-210 Issue 10 Annex D
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.231 (e) RSS-Gen Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2023-06-28 to 2023-07-06
Input voltage	: Fully charged battery

Operation mode	: A
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

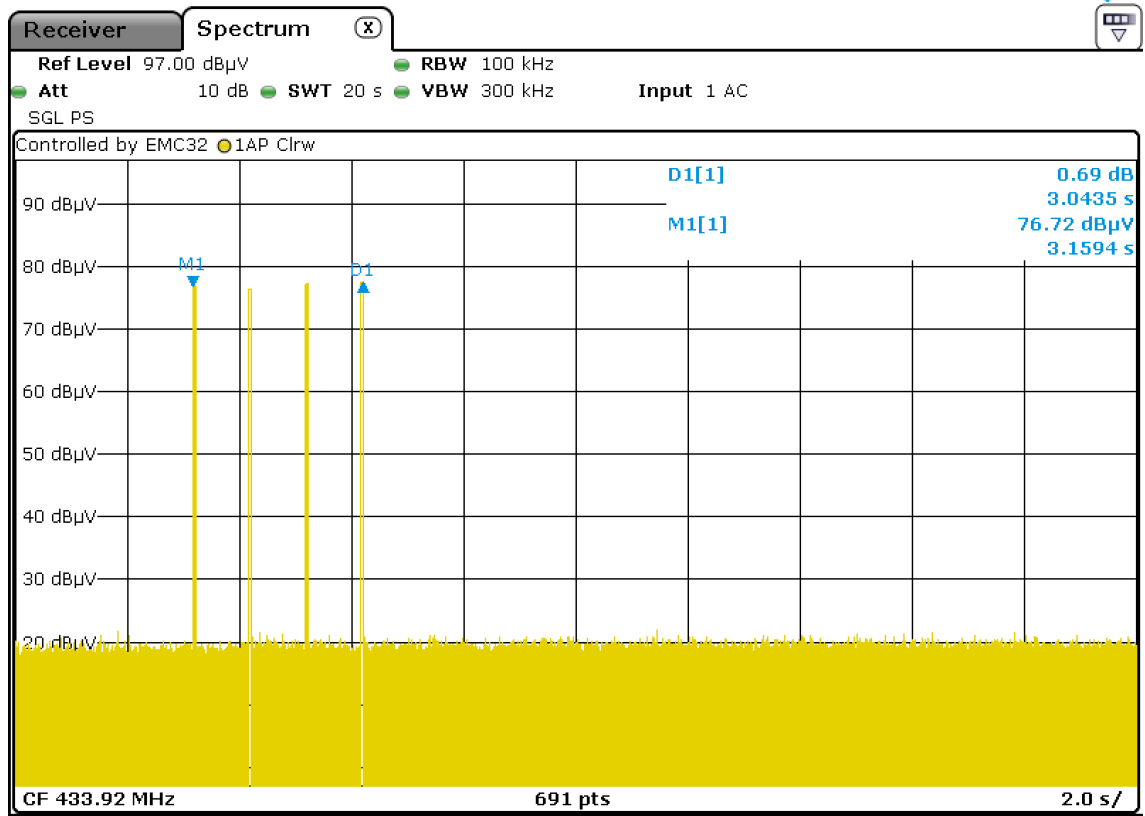
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Appendix A: Test Results

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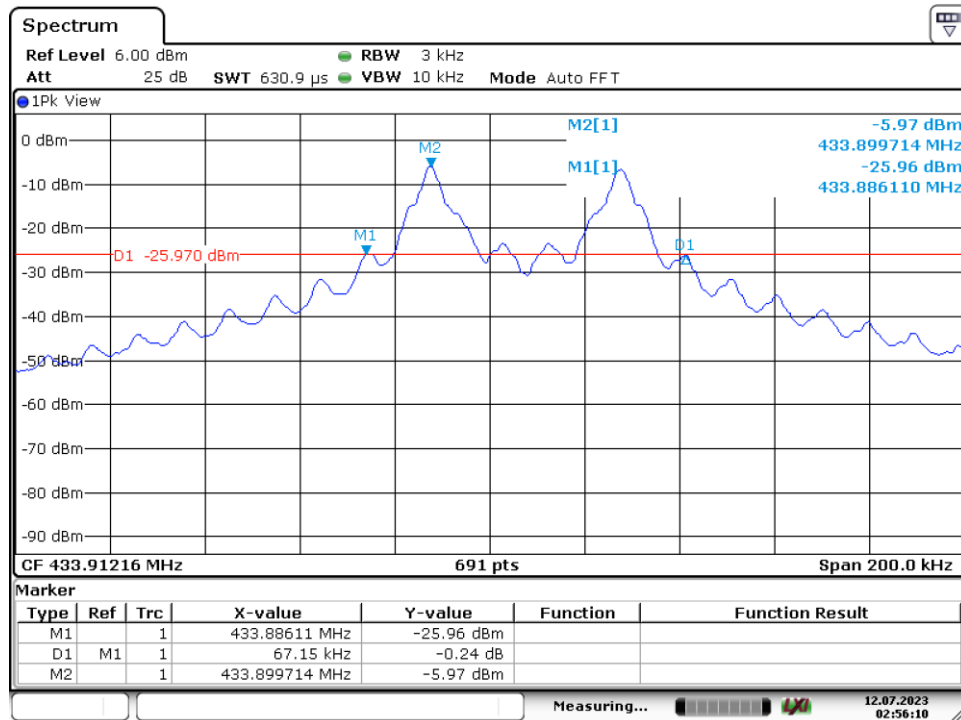
Appendix A.1: Test Results of Deactivation of the Transmission

Operation Mode	Frequency (MHz)	Duration Time (S)	Limit (S)	Result
A	433.92	3.1594	5	Pass



Appendix A.2: Test Results of 20dB Bandwidth

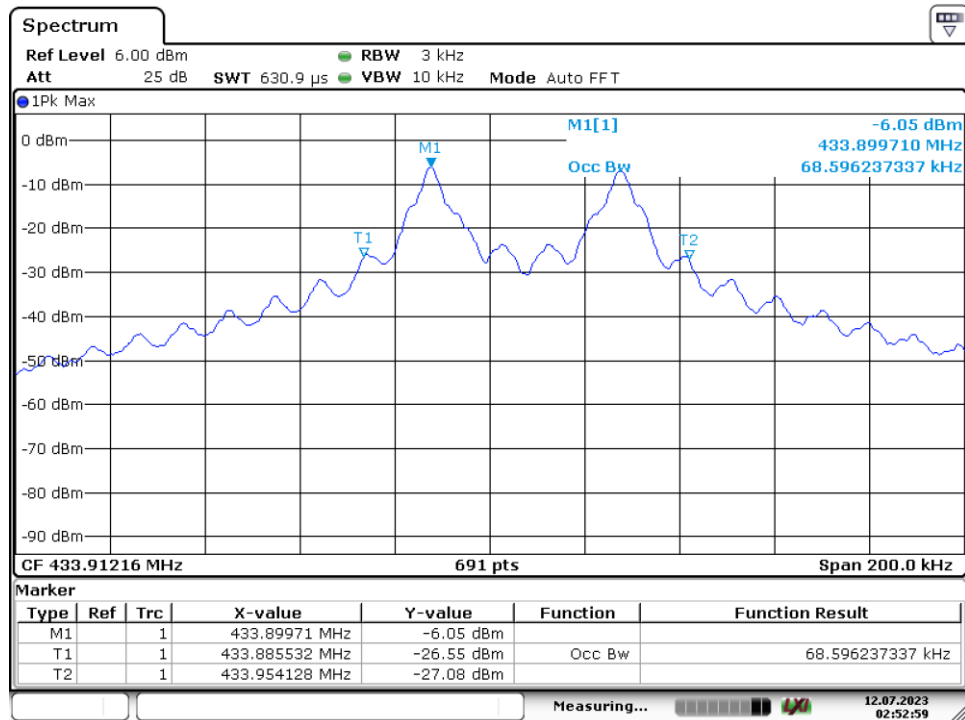
Operation Frequency (MHz)	20dB Emission Bandwidth (MHz)	Limit (MHz)	Result
433.92	0.067	1.084	Pass



Date: 12.JUL.2023 02:56:10

Appendix A.3: Test Results of 99% Bandwidth

Operation Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
433.92	0.0686	-	Pass



Date: 12.JUL.2023 02:52:59

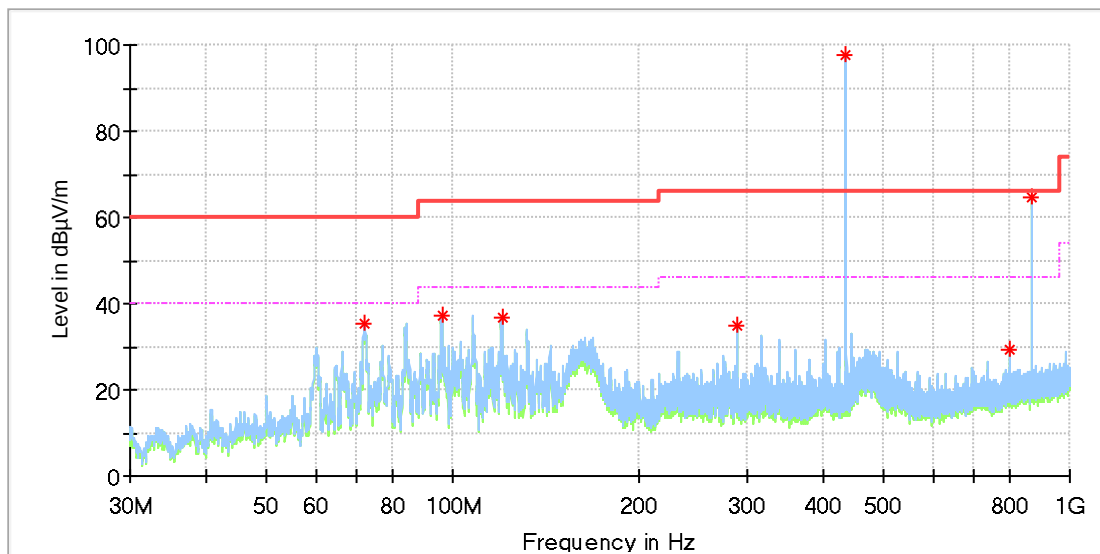
Appendix A.4: Test Results of Field Strength of Fundamental and Unwanted Emissions in the Spurious Domain

Note: The highest waveform in the figure is 433.92MHz Fundamental.

30MHz - 1GHz

EUT Information

EUT Name:	Intelligent Robot Vacuum and Mop Clean
Model:	ROB-02A1AT
Test Mode:	433MHz
Order No/Sample No:	168423348/A003473764-001
Test Voltage::	Battery
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

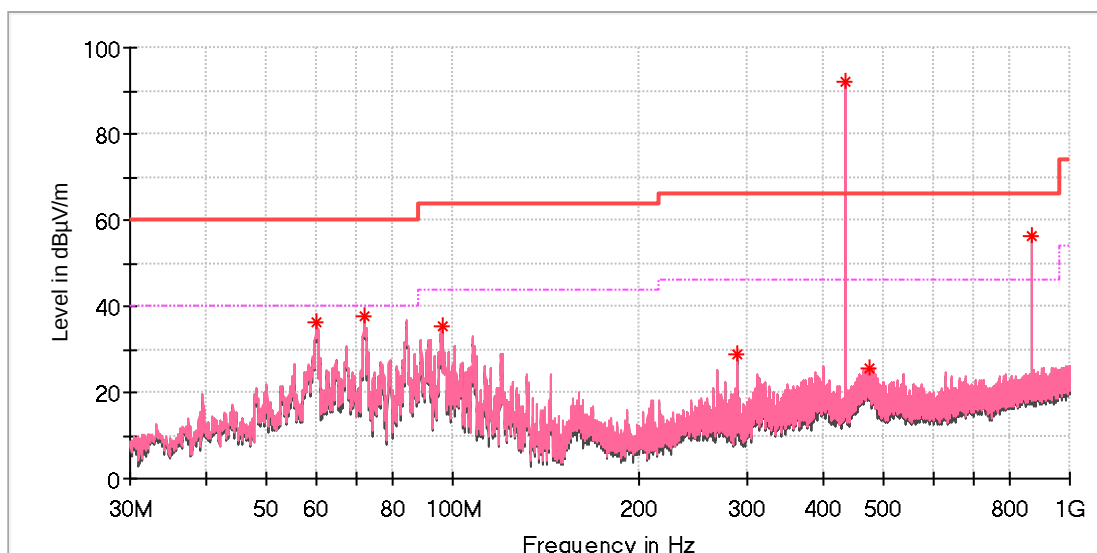
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.933846	35.38	---	40.00	4.62	100.0	H	229.0	-22.7
96.071923	37.30	---	43.50	6.20	100.0	H	208.0	-19.9
120.247308	36.54	---	43.50	6.96	100.0	H	45.0	-21.1
288.206539	34.81	---	46.00	11.19	100.0	H	22.0	-16.9
433.967692	97.65	---	100.82	3.17	100.0	H	240.0	-13.5
433.967692	---	72.65	80.82	8.17	100.0	H	240.0	-13.5
796.561154	29.10	---	46.00	16.90	100.0	H	292.0	-6.8
867.818846	64.61	---	80.82	16.21	100.0	H	87.0	-5.7
867.818846	---	39.61	60.82	21.21	100.0	H	87.0	-5.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Intelligent Robot Vacuum and Mop Clean
Model: ROB-02A1AT
Test Mode: 433MHz
Order No/Sample No: 168423348/A003473764-001
Test Voltage:: Battery
Remark: Temp 22 Humi:54%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.107308	36.37	---	40.00	3.63	100.0	V	139.0	-19.3
72.045769	37.78	---	40.00	2.22	100.0	V	139.0	-22.8
96.071923	35.51	---	43.50	7.99	100.0	V	150.0	-19.9
288.243846	28.62	---	46.00	17.38	100.0	V	96.0	-16.9
433.893077	92.24	---	100.82	8.58	100.0	V	17.0	-13.5
433.893077	---	67.24	80.82	13.58	100.0	V	17.0	-13.5
473.290000	25.79	---	46.00	20.21	100.0	V	56.0	-12.7
867.818846	56.45	---	80.82	24.37	100.0	V	69.0	-5.7
867.818846	---	31.45	60.82	29.37	100.0	V	69.0	-5.7

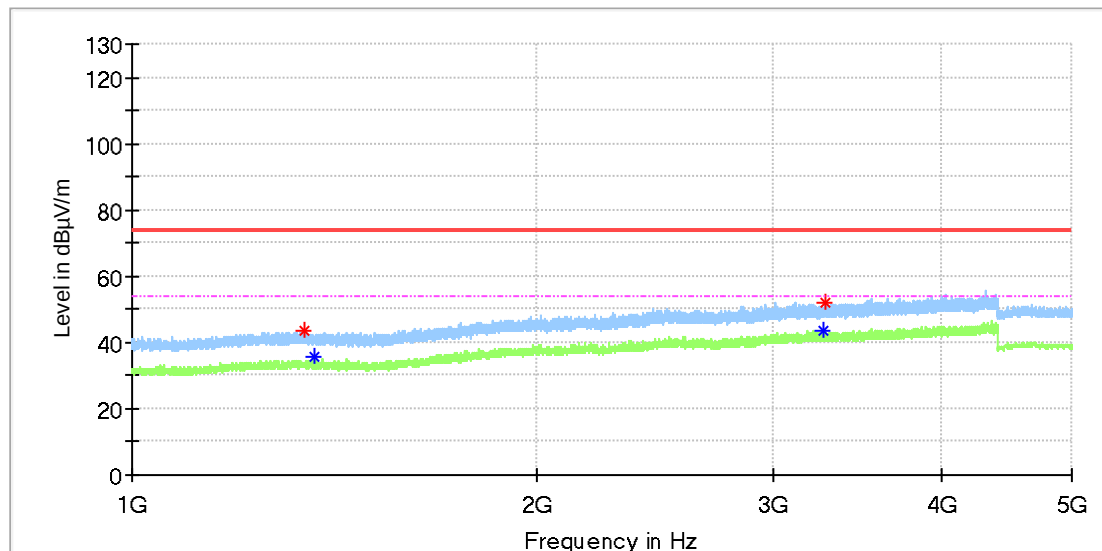
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Above 1GHz

EUT Information

EUT Name:	Intelligent Robot Vacuum and Mop Clean
Model:	ROB-02A1AT
Test Mode:	433MHz
Order No/Sample No:	168423348/A003473764-001
Test Voltage:	Battery
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.231
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

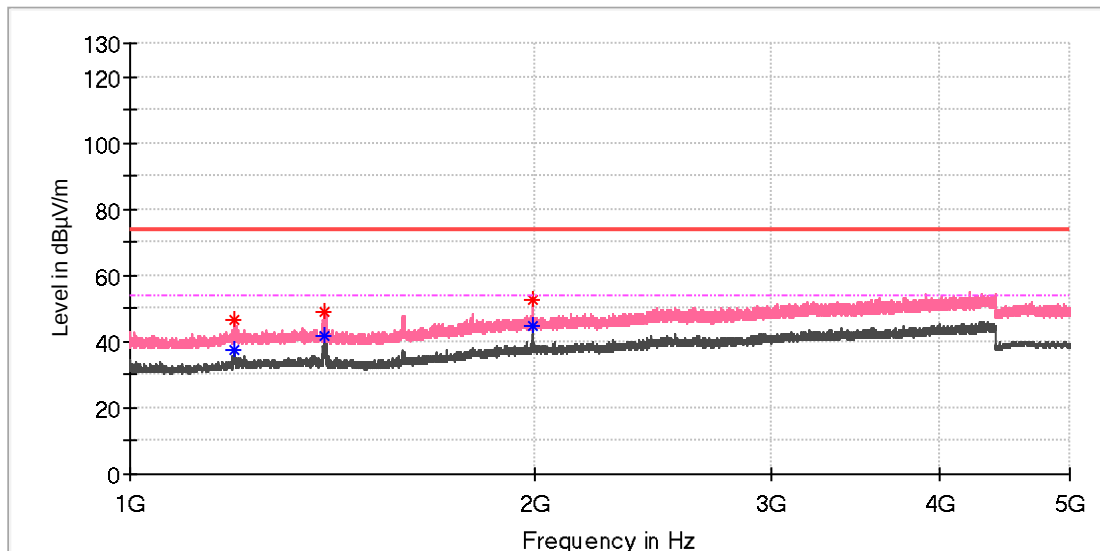
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1342.720000	43.34	---	74.00	30.66	150.0	H	309.0	2.1
1364.650000	---	35.56	54.00	18.44	150.0	H	144.0	2.0
3262.870000	---	43.48	54.00	10.52	150.0	H	30.0	8.5
3279.700000	51.77	---	74.00	22.23	150.0	H	192.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Intelligent Robot Vacuum and Mop Clean
Model: ROB-02A1AT
Test Mode: 433MHz
Order No/Sample No: 168423348/A003473764-001
Test Voltage: Battery
Remark: Temp 22 Humi:54%
Test Standard: FCC 15.231
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.670000	---	37.49	54.00	16.51	150.0	V	56.0	1.1
1196.350000	46.60	---	74.00	27.40	150.0	V	56.0	1.1
1393.040000	---	41.61	54.00	12.39	150.0	V	273.0	1.7
1394.060000	49.11	---	74.00	24.89	150.0	V	126.0	1.7
1994.670000	52.31	---	74.00	21.69	150.0	V	227.0	6.0
1994.670000	---	44.81	54.00	9.19	150.0	V	227.0	6.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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