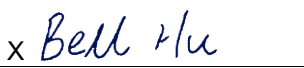


Prüfbericht-Nr.: Test report no.:	CN25PKKO 003	Auftrags-Nr.: Order no.:	168581316	Seite 1 von 16 Page 1 of 16
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-10-29	
Auftraggeber: Client:	Greenworks North America, LLC 500 South Main Street, Suite 450, Mooresville North Carolina United States 28115			
Prüfgegenstand: Test item:	Robotic Lawnmower			
Bezeichnung / Typ-Nr.: Identification / Type no.:	C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 24, 2025			
Wareneingangsdatum: Date of sample receipt:	2025-11-06	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004131142-001~009			
Prüfzeitraum: Testing period:	2025-11-26 - 2025-11-30			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-03-12	Ausstellungsdatum: Issue date:		2026-03-12
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BB85-GWRLM0506 IC: 33161-GWRLM0506 HVIN: C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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. 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.				

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Test report no.:

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
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 115:2023, 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 115:2023, 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 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION

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 Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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

Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

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)
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 & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 Products is a Robotic Lawnmower supports Bluetooth, 2.4GHz Wi-Fi, LTE and Lora functions. Models C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX are the same including the circuit theory, electrical design, the critical components except for the appearance and Recommended Mowing Area by the software setting.

This product contains a Lora Module “M4” (FCC ID: 2BM2K-M4; IC: 33426-M4). According to KDB 996369 D02 (b), the test data for conducted antenna port in original reports can be re-used as justification below.

- 1. Applicant has built in the radio module according to the specific radio module integration guides.
- 2. The applicant has not modified hardware and software provided by the module manufacturer.
- 3. The wireless module (FCC ID: 2BM2K-M4, IC: 33426-M4) adding into a new host and additional type of antenna, the gain is 1.30dBi when 1.34dBi in the certified wireless module. Since these changed, RF output power are spot checked and Radiated Spurious Emissions, Conducted Emissions are arranged re-testing, and other conducted measurement test data can refer to as table description:

Wireless Module	FCC ID: 2BM2K-M4	IC: 33426-M4
Items		
RF output power		
Power Spectral density	Refer to wireless module test report HX250516R001 as issued by shenzhen Huaxin Information Technology Service Co.,Ltd.	Refer to wireless module test report HX250516R001 as issued by shenzhen Huaxin Information Technology Service Co.,Ltd. Compared with standard version RSS 247 issue 3 and issue 4 difference, it does not affect the rule compliance.
6dB bandwidth		
99% bandwidth		
Conducted Spurious Emissions		

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Robotic Lawnmower
Type Designation:	C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX
FCC ID:	2BB85-GWRLM0506
IC:	33161-GWRLM0506
HVIN:	C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX
Operating Voltage:	DC 21.6V input via internal rechargeable battery or charging by Charging Station
Testing Voltage:	Fully charged battery
Technical Specification of Lora	
Operating Frequency:	902.5 – 927.49 MHz
Type of Modulation:	CSS

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Channel Number:	50 channels
Channel Separation:	510kHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.30 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Lora wireless transmitting mode
- 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- FCC/IC Label and Location Info

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 tests were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024, KDB 971168 D01 and ANSI C63.26.

According to clause 3.1, all tests were performed on model C20X 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)

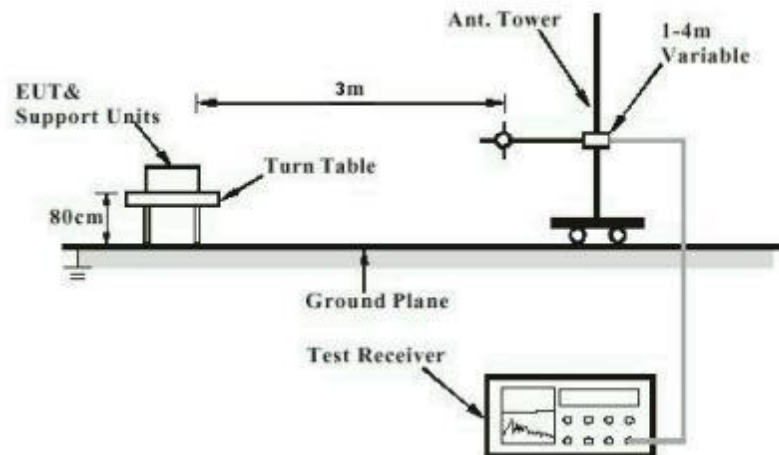


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

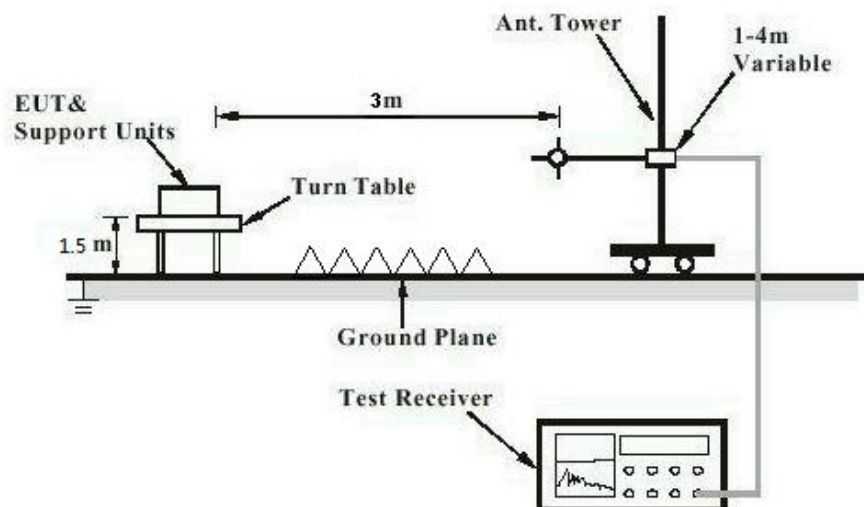
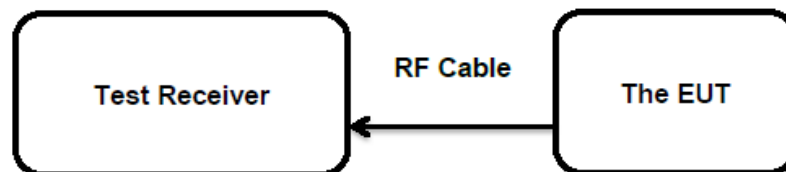


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has Integral Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Conducted Output Power

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

Test standard	: FCC Part 15.247(b)(2)&(3) RSS-247 Clause 6.2.2.2 & RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: FCC: FHSS < 1.0 W (≥50 hopping channels) FHSS < 0.25 W (25-50 hopping channels) DTS < 1.0 W IC: FHSS < 1.0 W (≥50 hopping channels) FHSS < 0.25 W (<50 hopping channels) DTS < 1.0 W
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-11-26 to 2025-11-30
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.3 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-11-26 to 2025-11-30
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
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 each mode were reported.

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.

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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Table 4: List of Accessories and Auxiliary Equipment.....	10

Appendix A: Test Results

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APPENDIX A.2: TEST RESULTS OF RADIATED SPURIOUS EMISSION, LORA	3
30 MHz - 1GHz	3
1GHz - 18GHz	9

Appendix A.1: Maximum Conducted Output Power

Test Mode	Test Channel (MHz)	Measured Conducted Power		Limit
		(dBm)	(W)	
Lora	902.5	20.87	0.1222	< 1.0 W (30 dBm)
	915.25	20.91	0.1233	
	927.49	20.62	0.1153	

Max. e.i.r.p.= 20.91dBm+1.30dBi=22.21dBm, which is less than 36dBm=4W.

Appendix A.2: Test Results of Radiated Spurious Emission, Lora

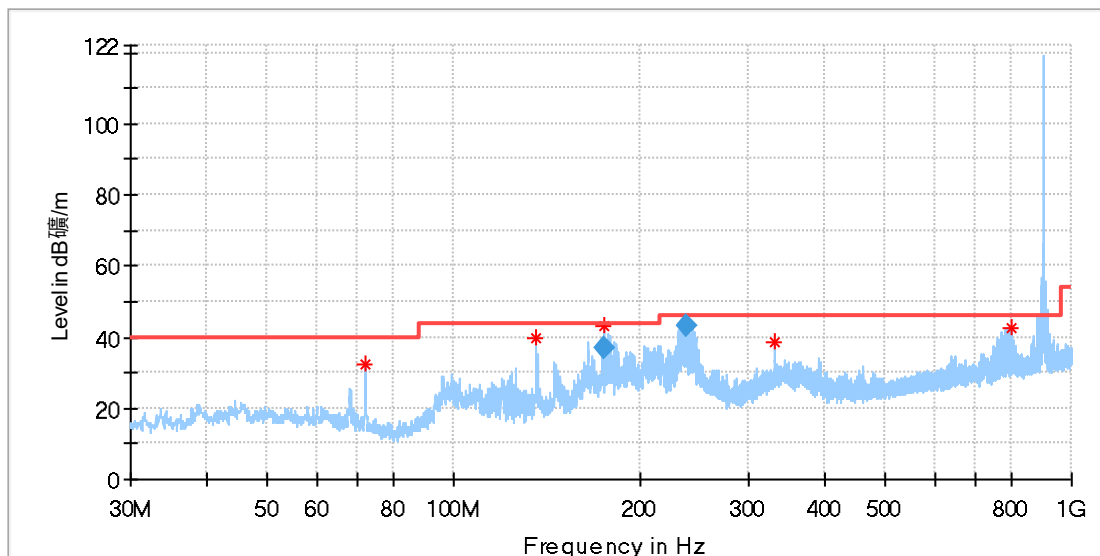
Note:

- 1) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
- 2) The highest waveform in the figure is Lora Fundamental.

30 MHz - 1GHz

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_902.5MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

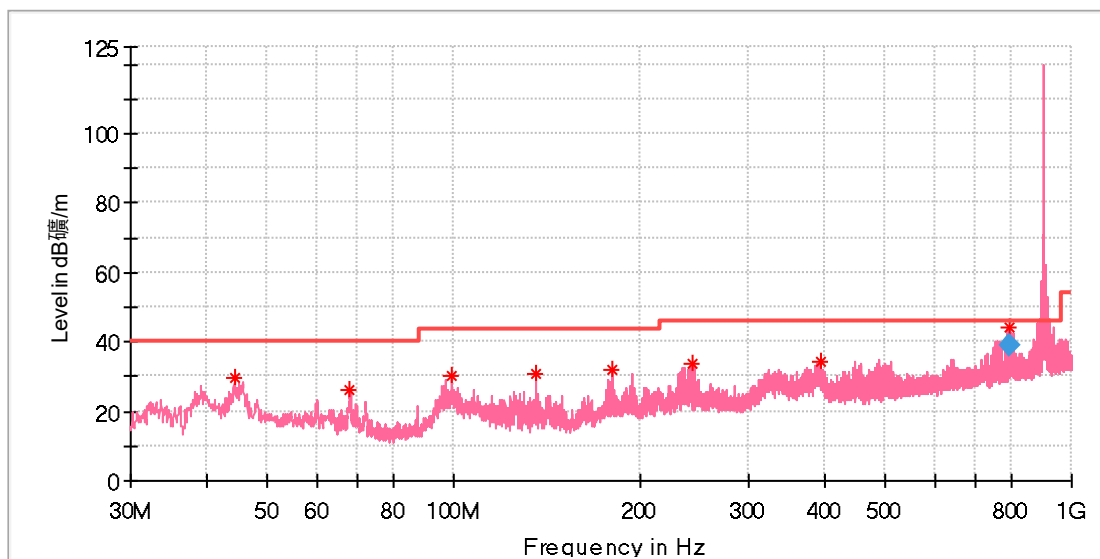
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.979444	32.32	40.00	7.68	100.0	H	229.0	-22.6
135.891667	39.90	43.50	3.60	100.0	H	251.0	-22.2
174.691667	43.41	43.50	0.09	100.0	H	277.0	-21.0
237.256667	43.51	46.00	2.49	100.0	H	38.0	-17.8
329.999444	38.43	46.00	7.57	100.0	H	46.0	-15.3
796.946667	42.83	46.00	3.17	100.0	H	127.0	-6.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
174.875778	36.84	43.50	6.66	100.0	H	276.0	-21.0
237.267834	43.35	46.00	2.65	100.0	H	43.0	-17.8

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_902.5MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

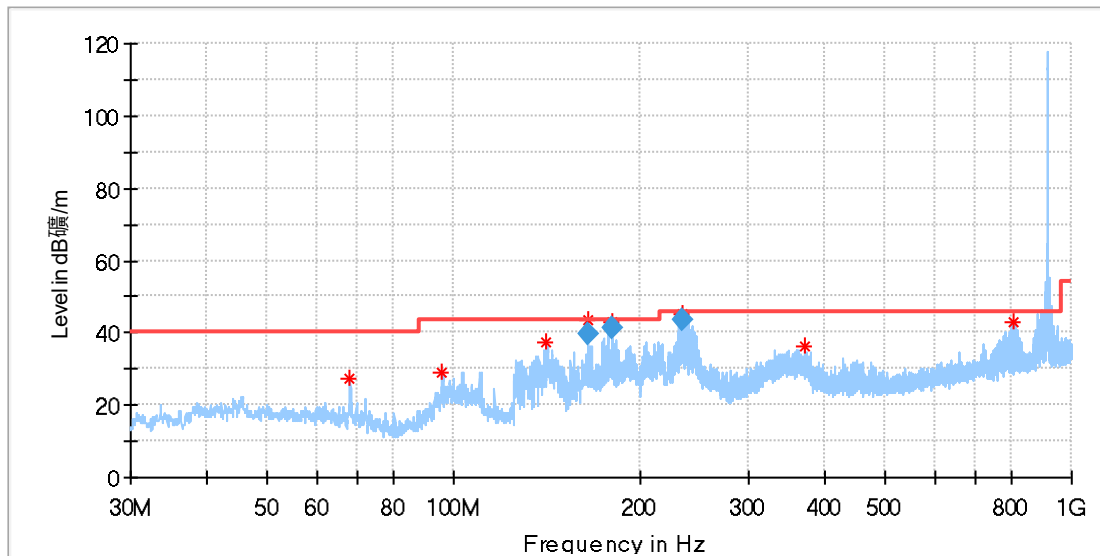
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.172778	29.48	40.00	10.52	100.0	V	0.0	-19.1
67.991667	25.99	40.00	14.01	100.0	V	79.0	-21.3
98.977778	30.14	43.50	13.36	100.0	V	345.0	-19.3
135.891667	30.87	43.50	12.63	100.0	V	154.0	-22.2
180.026667	31.86	43.50	11.64	100.0	V	324.0	-20.6
243.507778	33.95	46.00	12.05	100.0	V	318.0	-17.6
392.456667	34.59	46.00	11.41	100.0	V	85.0	-14.0
792.581667	44.39	46.00	1.61	100.0	V	0.0	-6.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
792.509650	38.72	46.00	7.28	100.0	V	5.0	-6.3

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_915.25MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

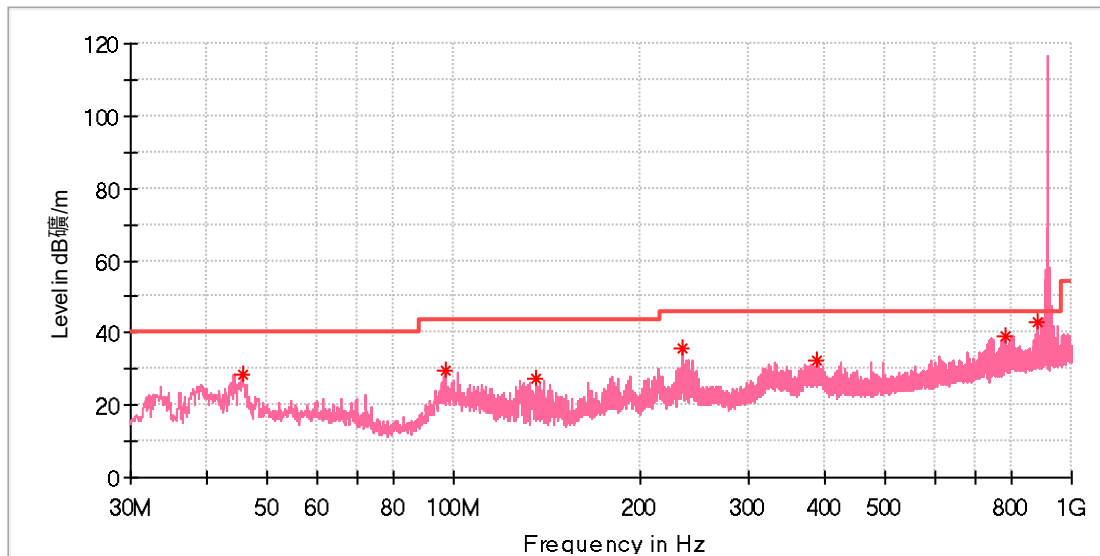
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
67.937778	27.41	40.00	12.59	100.0	H	66.0	-21.3
95.852222	29.16	43.50	14.34	100.0	H	249.0	-19.7
141.334444	37.24	43.50	6.26	100.0	H	215.0	-22.4
164.991667	43.55	43.50	-0.05	100.0	H	66.0	-21.6
180.026667	42.88	43.50	0.62	100.0	H	249.0	-20.6
233.807778	45.06	46.00	0.94	100.0	H	249.0	-18.0
368.637778	36.08	46.00	9.92	100.0	H	49.0	-14.5
806.970000	42.94	46.00	3.06	100.0	H	184.0	-6.1

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
164.992889	39.83	43.50	3.67	100.0	H	71.0	-21.6
180.040889	41.10	43.50	2.40	100.0	H	248.0	-20.6
233.765611	43.49	46.00	2.51	100.0	H	244.0	-18.0

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_915.25MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

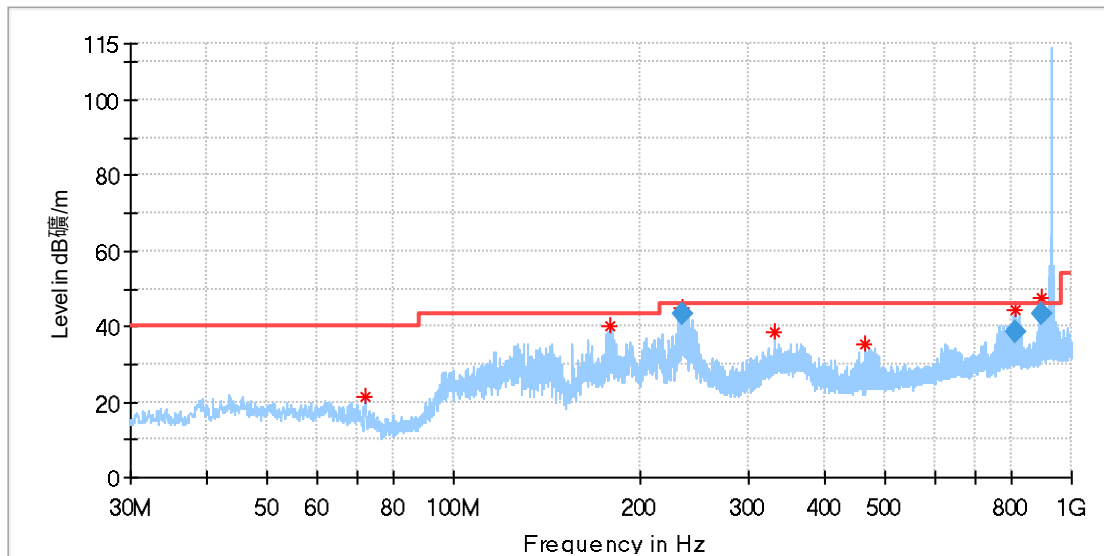
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.627778	28.57	40.00	11.43	100.0	V	6.0	-18.8
96.930000	29.58	43.50	13.92	100.0	V	330.0	-19.6
136.053333	27.15	43.50	16.35	100.0	V	0.0	-22.2
234.562222	35.60	46.00	10.40	100.0	V	310.0	-18.0
387.067778	32.13	46.00	13.87	100.0	V	137.0	-14.1
779.810000	38.93	46.00	7.07	100.0	V	262.0	-6.5
879.073333	42.95	46.00	3.05	100.0	V	46.0	-5.1

Final_Result

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

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_927.49MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

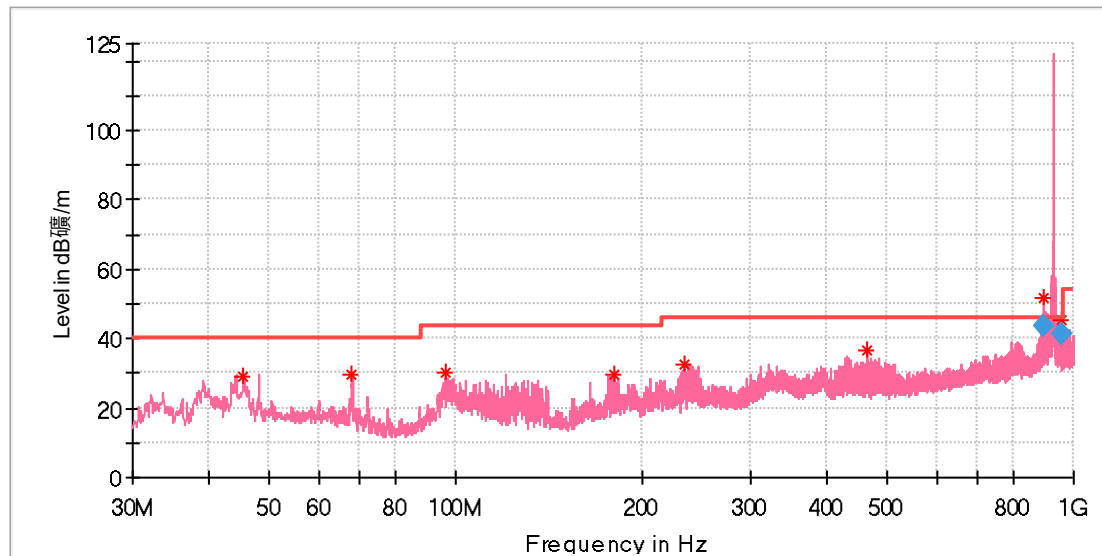
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.925556	21.46	40.00	18.54	100.0	H	232.0	-22.5
179.218333	40.24	43.50	3.26	100.0	H	251.0	-20.7
234.562222	44.83	46.00	1.17	100.0	H	98.0	-18.0
329.999444	38.71	46.00	7.29	100.0	H	65.0	-15.3
463.697778	35.50	46.00	10.50	100.0	H	352.0	-12.5
810.796111	44.42	46.00	1.58	100.0	H	183.0	-6.0
895.563333	47.41	46.00	-1.41	100.0	H	4.0	-4.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
234.548278	43.57	46.00	2.43	100.0	H	93.0	-18.0
810.684889	38.25	46.00	7.75	100.0	H	182.0	-6.0
895.573444	43.22	46.00	2.78	100.0	H	-1.0	-4.8

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_927.49MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.358333	29.32	40.00	10.68	100.0	V	0.0	-18.9
67.991667	29.80	40.00	10.20	100.0	V	99.0	-21.3
96.013889	30.01	43.50	13.49	100.0	V	296.0	-19.7
180.781111	29.70	43.50	13.80	100.0	V	296.0	-20.5
233.753889	32.72	46.00	13.28	100.0	V	329.0	-18.0
463.751667	36.57	46.00	9.43	100.0	V	183.0	-12.5
895.509444	51.73	46.00	-5.73	100.0	V	29.0	-4.9
959.529444	45.36	46.00	0.64	100.0	V	301.0	-4.1

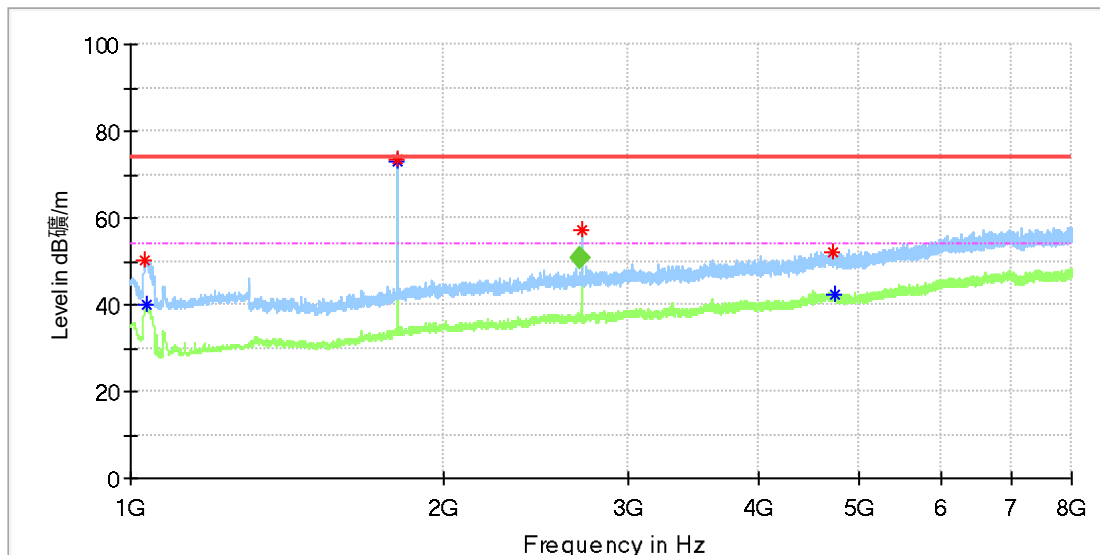
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
895.541405	43.85	46.00	2.15	100.0	V	28.0	-4.8
959.578366	41.54	46.00	4.46	100.0	V	306.0	-4.1

1GHz - 18GHz

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_902.5MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
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)
1033.000000	50.29	---	74.00	23.71	150.0	H	333.0	0.4
1037.500000	---	40.06	54.00	13.94	150.0	H	333.0	0.5
1804.733333	---	72.89	89.85	16.96	150.0	H	317.0	6.3
1804.733333	73.37	---	99.85	26.48	150.0	H	317.0	6.3
2707.000000	57.41	---	74.00	16.59	150.0	H	84.0	9.1
4709.741667	52.23	---	74.00	21.77	150.0	H	176.0	13.5
4733.750000	---	42.55	54.00	11.45	150.0	H	57.0	13.4

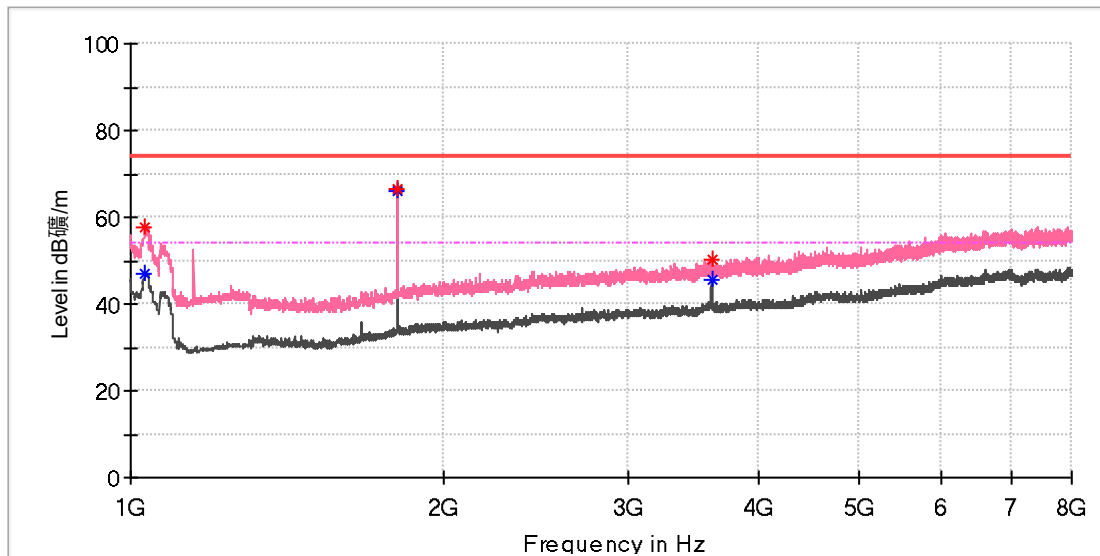
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2702.773333	---	50.86	54.00	3.14	150.0	H	84.0	9.1

Note: The harmonic radiated emission of LORA is not within restricted bands, test result meets "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" according to FCC 15.247 requirement.

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_902.5MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
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)
1032.500000	---	47.13	54.00	6.87	150.0	V	0.0	0.4
1033.000000	57.80	---	74.00	16.20	150.0	V	0.0	0.4
1804.733333	66.49	---	100.17	33.68	150.0	V	289.0	6.3
1804.733333	---	65.89	90.17	24.28	150.0	V	289.0	6.3
3609.825000	50.23	---	74.00	23.77	150.0	V	115.0	10.9
3609.825000	---	45.80	54.00	8.20	150.0	V	115.0	10.9

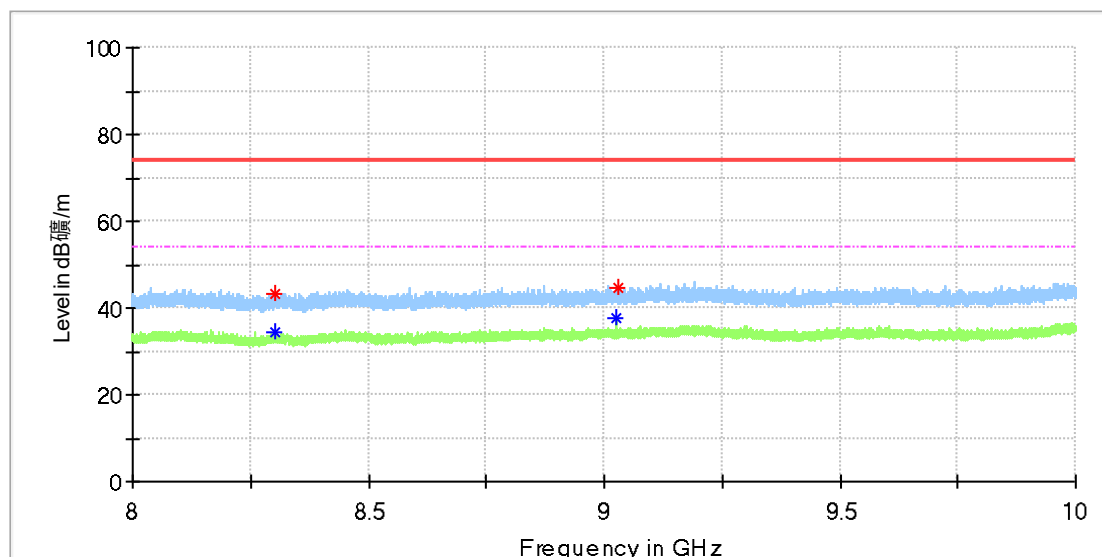
Final_Result

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

Note: The harmonic radiated emission of LORA is not within restricted bands, test result meets "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" according to FCC 15.247 requirement.

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_902.5MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

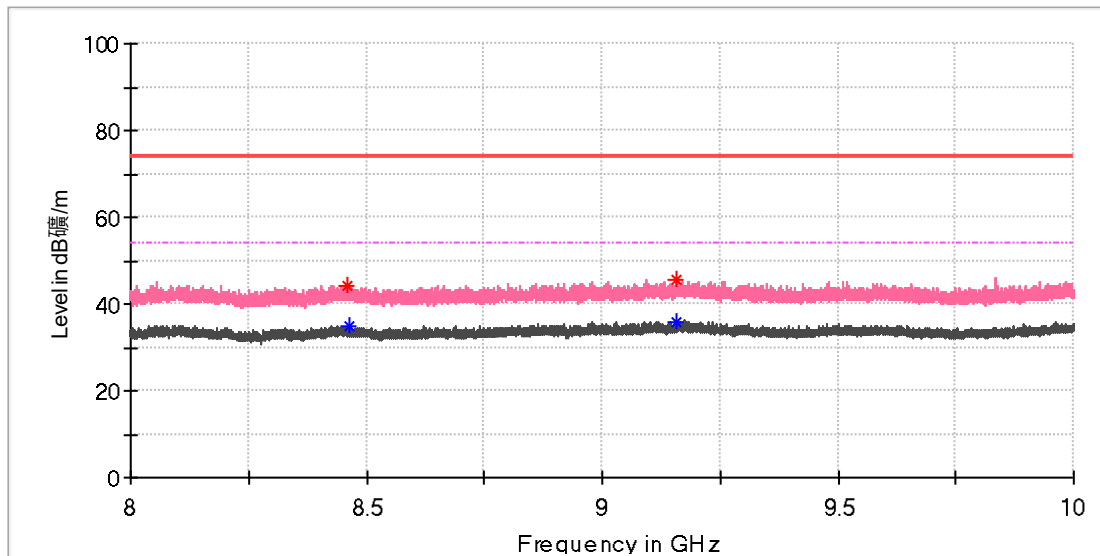
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8300.900000	---	34.30	54.00	19.70	150.0	H	229.0	8.7
8301.700000	43.35	---	74.00	30.65	150.0	H	0.0	8.7
9024.000000	---	37.82	54.00	16.18	150.0	H	190.0	9.5
9031.900000	44.71	---	74.00	29.29	150.0	H	0.0	9.6

Final Result

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

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_902.5MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

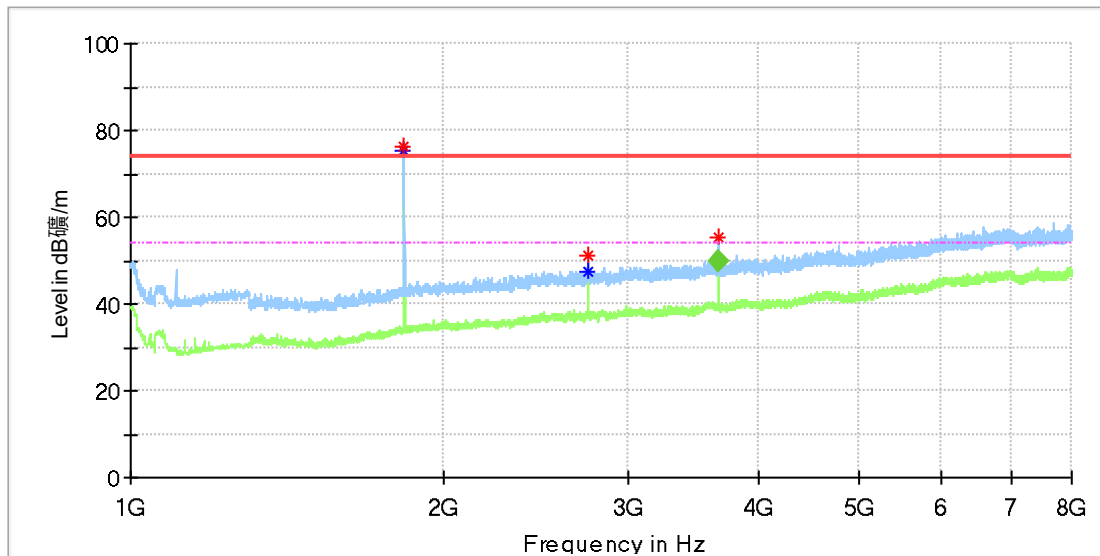
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8459.600000	44.41	---	74.00	29.59	150.0	V	264.0	9.1
8464.600000	---	34.92	54.00	19.08	150.0	V	183.0	9.1
9157.600000	45.51	---	74.00	28.49	150.0	V	21.0	10.4
9159.400000	---	35.94	54.00	18.06	150.0	V	203.0	10.5

Final_Result

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

EUT Information

EUT Name: Robotic Lawnmower/Tondeuse
Model: C20X
Test Mode: Lora_915.25MHz
Order No/Sample No: 168581316/A004131142-002
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

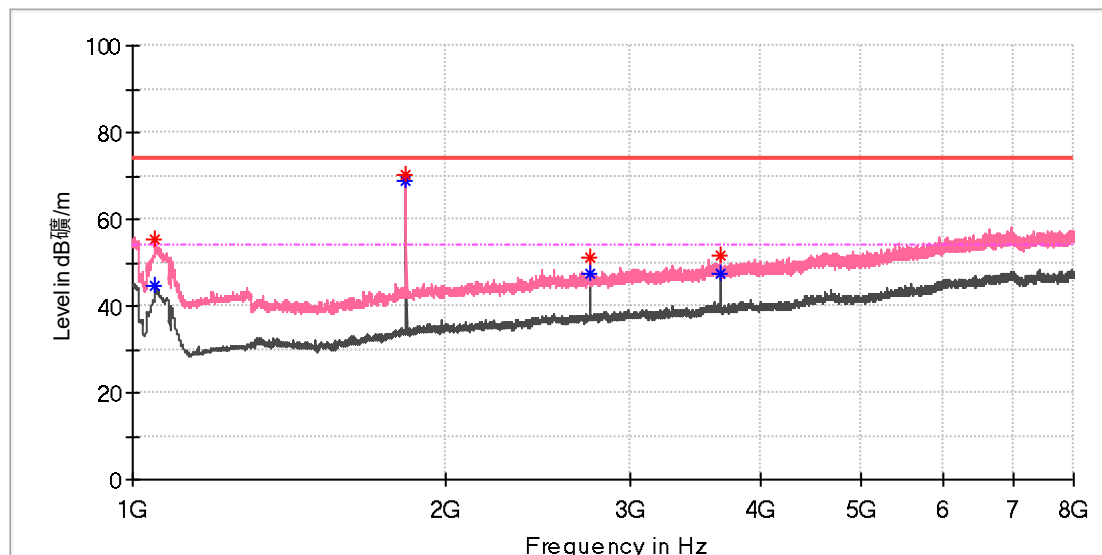
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1830.416667	---	75.45	88.24	12.79	150.0	H	68.0	6.4
1830.416667	76.27	---	98.24	21.97	150.0	H	68.0	6.4
2745.525000	---	47.62	54.00	6.38	150.0	H	315.0	9.3
2745.525000	51.10	---	74.00	22.90	150.0	H	315.0	9.3
3660.075000	55.47	---	74.00	18.53	150.0	H	332.0	10.9

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3662.081666	---	49.86	54.00	4.14	150.0	H	332.0	11.0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_915.25MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

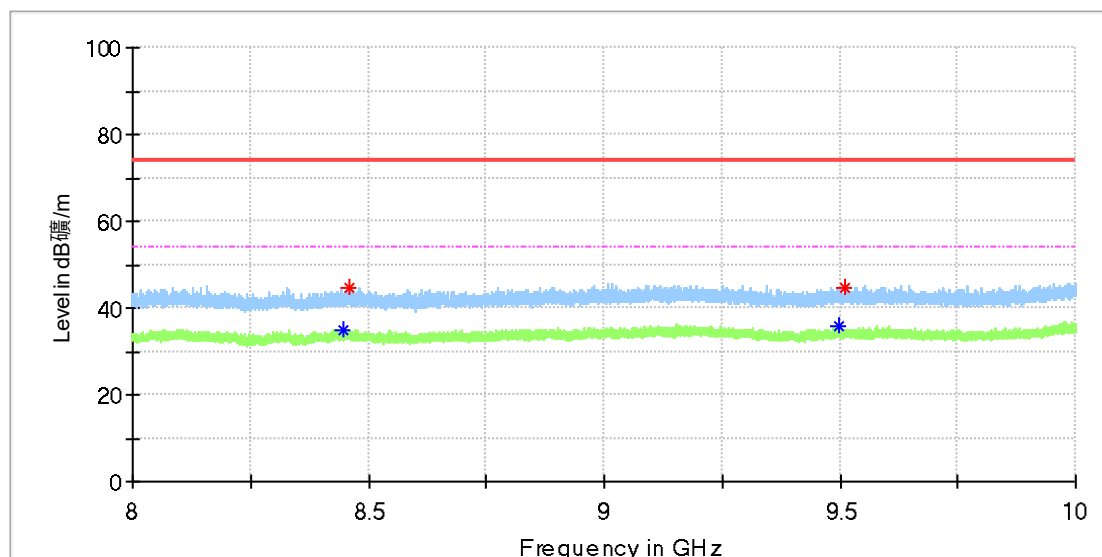
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1050.000000	55.16	---	74.00	18.84	150.0	V	11.0	0.5
1051.000000	---	44.70	54.00	9.30	150.0	V	11.0	0.5
1830.416667	---	68.65	87.89	19.24	150.0	V	305.0	6.4
1830.416667	70.01	---	97.89	27.88	150.0	V	305.0	6.4
2746.083333	51.18	---	74.00	22.82	150.0	V	85.0	9.3
2746.083333	---	47.35	54.00	6.65	150.0	V	85.0	9.3
3660.633333	51.75	---	74.00	22.25	150.0	V	318.0	11.0
3660.633333	---	47.32	54.00	6.68	150.0	V	318.0	11.0

Final_Result

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

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_915.25MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

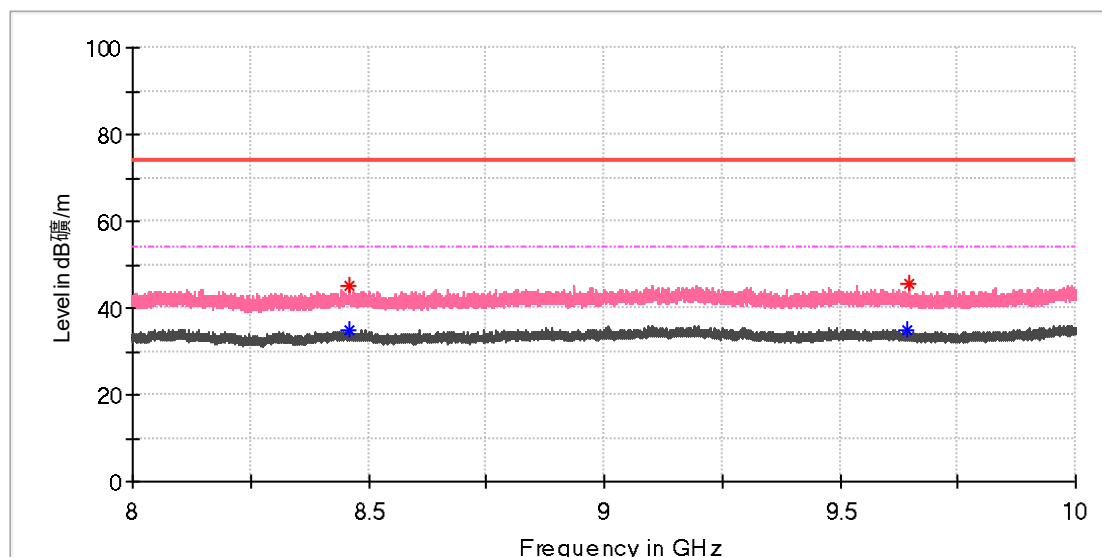
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8444.900000	---	34.85	54.00	19.15	150.0	H	103.0	9.2
8460.100000	44.80	---	74.00	29.20	150.0	H	242.0	9.1
9497.600000	---	35.76	54.00	18.24	150.0	H	131.0	9.9
9510.200000	44.57	---	74.00	29.43	150.0	H	123.0	10.0

Final Result

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

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_915.25MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

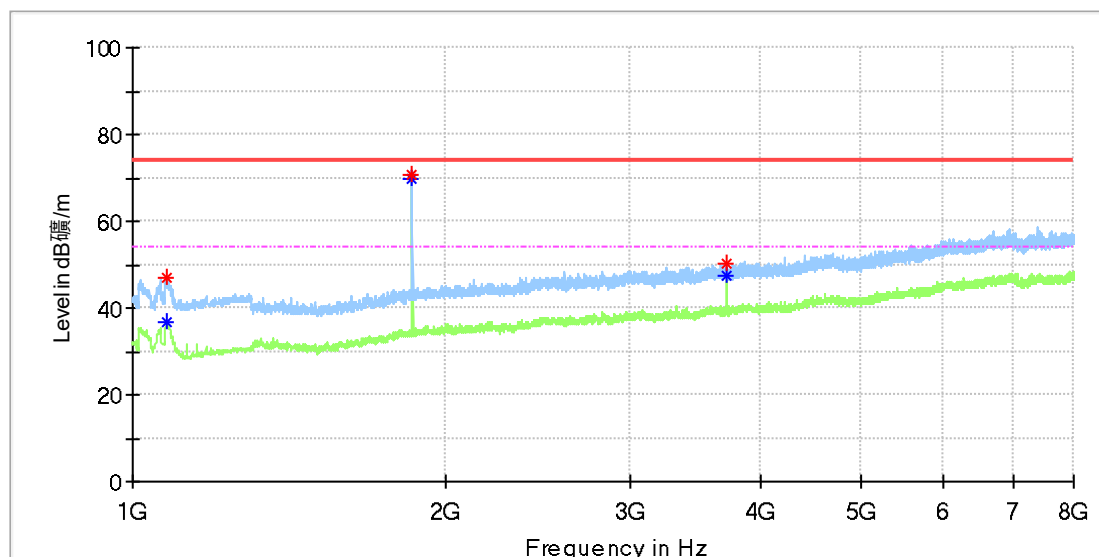
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8460.900000	45.34	---	74.00	28.66	150.0	V	84.0	9.1
8461.200000	---	34.72	54.00	19.28	150.0	V	201.0	9.1
9642.000000	---	34.86	54.00	19.14	150.0	V	331.0	10.4
9647.900000	45.76	---	74.00	28.24	150.0	V	296.0	10.4

Final Result

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

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_927.49MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

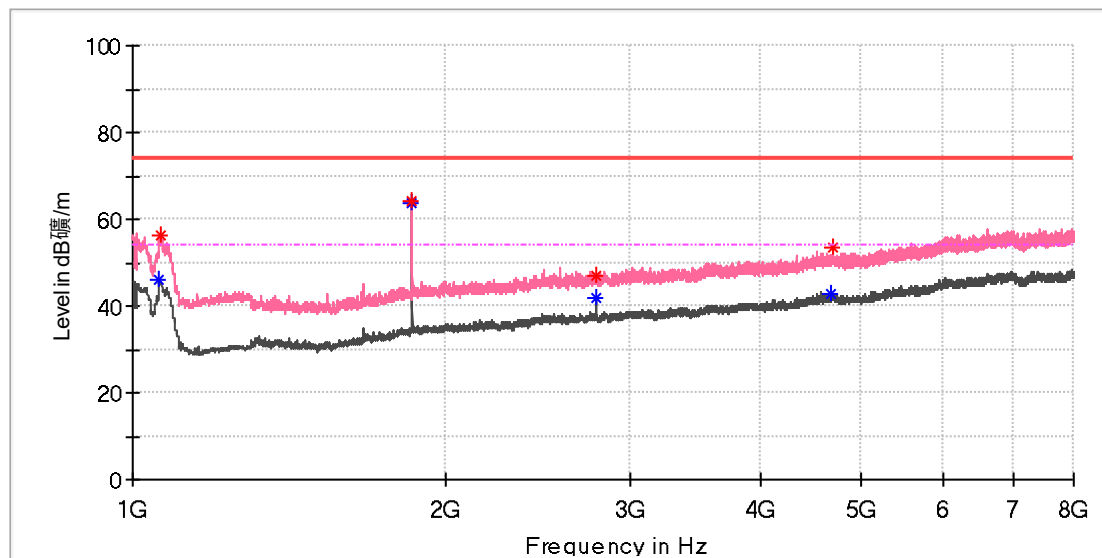
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1078.000000	46.88	---	74.00	27.12	150.0	H	240.0	0.5
1078.500000	---	36.54	54.00	17.46	150.0	H	240.0	0.5
1854.983333	---	69.75	84.37	14.62	150.0	H	299.0	6.5
1854.983333	70.71	---	94.37	23.66	150.0	H	299.0	6.5
3709.766667	50.46	---	74.00	23.54	150.0	H	273.0	11.1
3709.766667	---	47.48	54.00	6.52	150.0	H	273.0	11.1

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_927.49MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

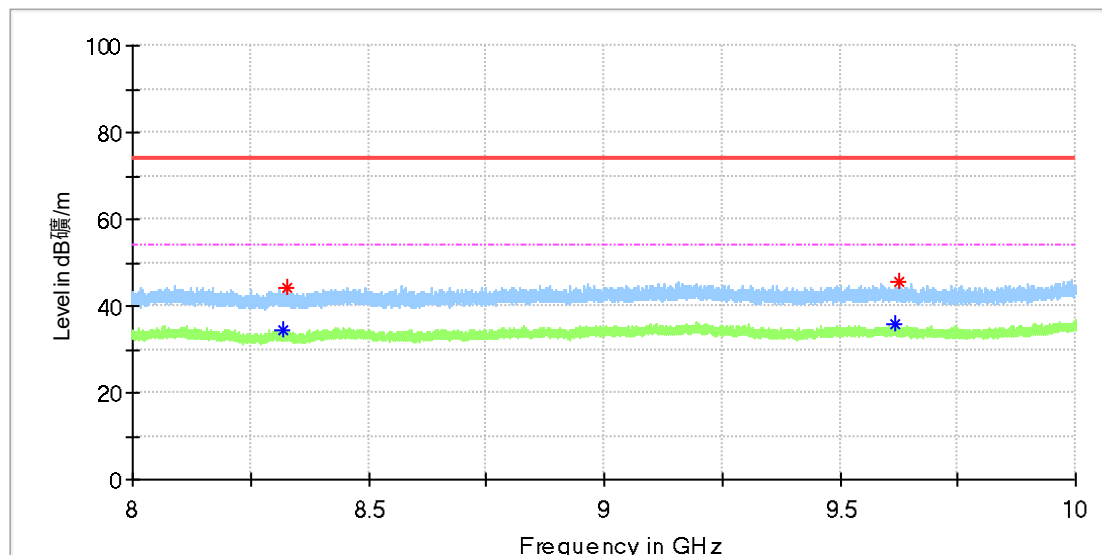
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.000000	---	46.10	54.00	7.90	150.0	V	13.0	0.5
1064.000000	56.35	---	74.00	17.65	150.0	V	13.0	0.5
1854.425000	64.00	---	102.23	38.23	150.0	V	128.0	6.5
1854.425000	---	63.55	92.23	28.68	150.0	V	128.0	6.5
2782.375000	---	41.71	54.00	12.29	150.0	V	316.0	9.4
2784.050000	46.84	---	74.00	27.16	150.0	V	346.0	9.4
4687.966667	---	42.87	54.00	11.13	150.0	V	174.0	13.5
4691.316667	53.33	---	74.00	20.67	150.0	V	230.0	13.5

Final_Result

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

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	Lora_927.49MHz
Order No/Sample No:	168581316/A004131142-002
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

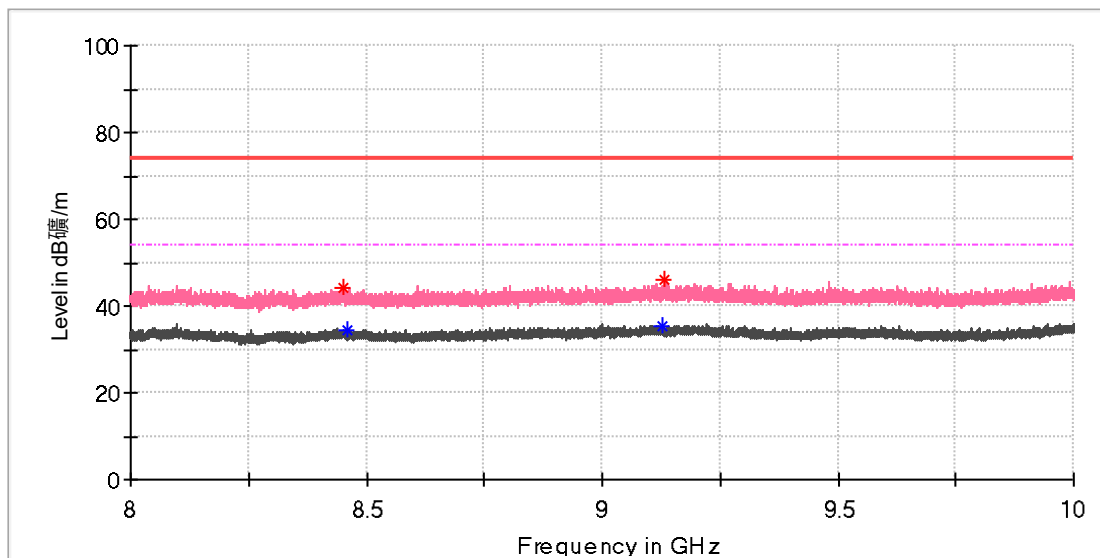
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
8317.700000	---	34.28	54.00	19.72	150.0	H	242.0	8.8
8328.500000	44.12	---	74.00	29.88	150.0	H	335.0	8.8
9616.700000	---	35.60	54.00	18.40	150.0	H	127.0	10.4
9623.900000	45.81	---	74.00	28.19	150.0	H	77.0	10.4

Final Result

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

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
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Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
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Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
8451.700000	44.18	---	74.00	29.82	150.0	V	121.0	9.2
8460.800000	---	34.50	54.00	19.50	150.0	V	282.0	9.1
9128.400000	---	35.46	54.00	18.54	150.0	V	0.0	10.3
9134.000000	46.05	---	74.00	27.95	150.0	V	14.0	10.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B: Photographs of the Test Set-Up

APPENDIX B: PHOTOGRAPHS OF THE TEST SET-UP	1
PHOTOGRAPH 1: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, 30MHz - 1GHz	2
PHOTOGRAPH 2: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, 1GHz - 18GHz	2

Photograph 1: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 2: Set-up photo for Radiated Spurious Emission, 1GHz - 18GHz

