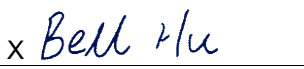


Prüfbericht-Nr.: <i>Test report no.:</i>	CN25PKKO 002	Auftrags-Nr.: <i>Order no.:</i>	168581316	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-10-29	
Auftraggeber: <i>Client:</i>	Greenworks North America, LLC 500 South Main Street, Suite 450, Mooresville North Carolina United States 28115			
Prüfgegenstand: <i>Test item:</i>	Robotic Lawnmower			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	C10X, C20X, C30X, C20, C10Z, C20Z, C30Z, RMC04VR, C40, C40Z, C80Z, C120Z, C80, C120, RMR20VR, G20AWD, G20AWDX, G40AWD, G40AWDX, G80AWDX, G120AWDX			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 24, 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-11-06	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004131142-001~009			
Prüfzeitraum: <i>Testing period:</i>	2025-11-26 - 2025-12-02			
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>	2026-03-12	Ausstellungsdatum: <i>Issue date:</i>		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 This report is for Bluetooth LE and 2.4GHz Wi-Fi.			
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

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 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 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 of Bluetooth LE;

Appendix B: Test Results of 2.4GHz Wi-Fi;

Appendix C: 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

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
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

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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)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
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.

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:	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 Bluetooth LE	
Operating Frequency:	2402-2480MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1 Mbps, 2 Mbps
Channel Separation:	2 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2.77 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462MHz for 802.11b/g/n(HT20)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number:	11 channels for 802.11b/g/n(HT20)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx

Antenna Gain:	2.77 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.

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi

RF Channel	802.11 b/g/n(HT20)
	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. Off

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.

According to clause 3.1, all tests were performed on model C20X in this report. Other models are deemed to meet the compliance without further test.

4.3 Special Accessories and Auxiliary Equipment

Table 6: 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)

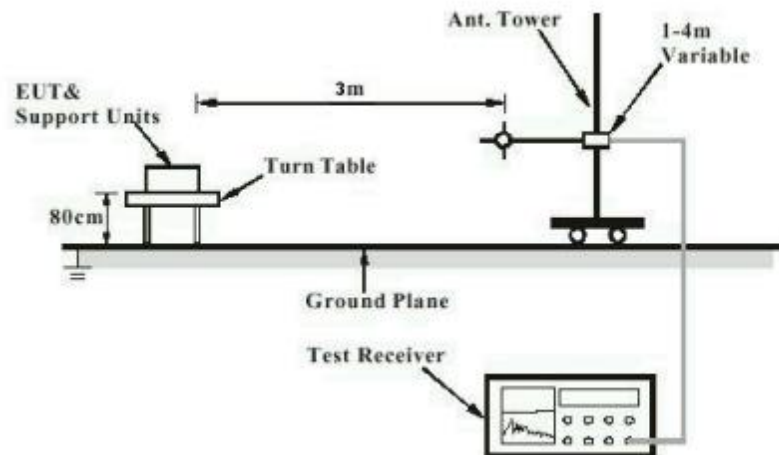


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

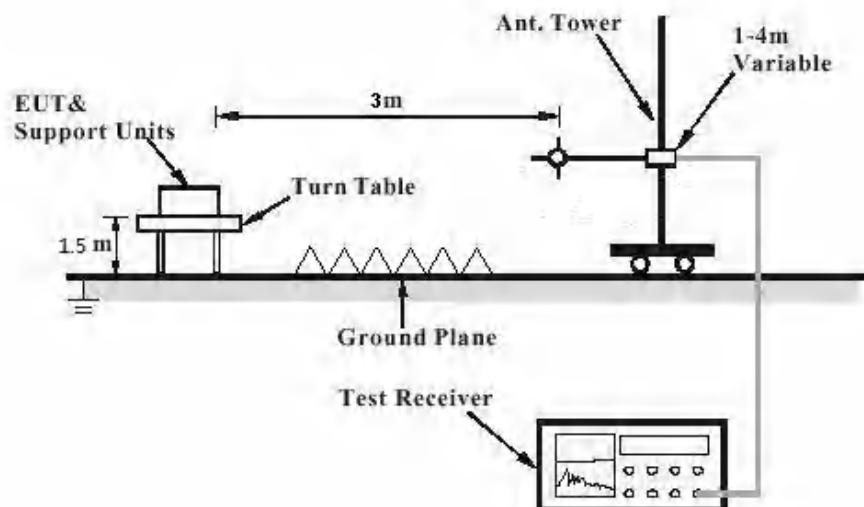
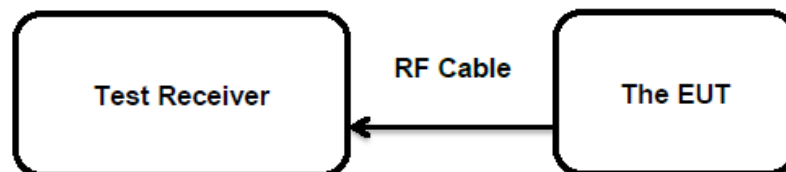


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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)(3) RSS-247 Clause 5.4(d)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-12-02
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	6.74	0.0047	< 1.0
	2440	4.89	0.0031	
	2480	3.29	0.0021	
Bluetooth LE (2 Mbps)	2402	6.68	0.0047	
	2440	4.81	0.0030	
	2480	3.24	0.0021	
Max. Measured Value		6.74	0.0047	

Max. e.i.r.p.=6.74dBm+2.77dBi=9.51dBm, which is less than 36dBm=4W.

Table 8: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	19.02	0.0798	< 1.0
		2437	18.56	0.0718	
		2462	18.19	0.0659	
802.11g	6 Mbps	2412	21.34	0.1361	
		2437	22.88	0.1941	
		2462	20.42	0.1102	
802.11n (HT20)	MCS0	2412	21.64	0.1459	
		2437	23.50	0.2239	
		2462	20.82	0.1208	
Maximum Measured Value			23.50	0.2239	

Max. e.i.r.p.=23.50dBm+2.77dBi=26.27dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.77dBi for Bluetooth LE & 2.4GHz Wi-Fi
e.i.r.p.=P_(Conducted power)+ G, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 5.2(b)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-12-02
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 5.2(a)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-12-02
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)
RSS-Gen Clause 6.7
Basic standard : ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+
C63.10a:2024
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-12-02
Input voltage : Fully charged battery
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 45 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN25PKKO 002
Test Report No.:Seite 20 von 22
Page 20 of 22**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-12-02
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

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Test Report No.:Seite 21 von 22
Page 21 of 22

5.1.7 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, B
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 the each mode were reported.

For the measurement records, refer to the appendix A, B.

6 Photographs of the Test Set-Up

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

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Appendix A: Test Results of Bluetooth LE

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.676	2402.376	0.5	PASS
		2440	0.692	2439.688	2440.380	0.5	PASS
		2480	0.704	2479.688	2480.392	0.5	PASS
BLE_2M	Ant1	2402	1.092	2401.496	2402.588	0.5	PASS
		2440	1.188	2439.404	2440.592	0.5	PASS
		2480	1.056	2479.512	2480.568	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0696	2401.5002	2402.5698	---	PASS
		2440	1.0760	2439.5021	2440.5781	---	PASS
		2480	1.0891	2479.5004	2480.5895	---	PASS
BLE_2M	Ant1	2402	2.0970	2400.9884	2403.0854	---	PASS
		2440	2.1078	2438.9933	2441.1011	---	PASS
		2480	2.1363	2478.9779	2481.1142	---	PASS

Test Graphs





BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

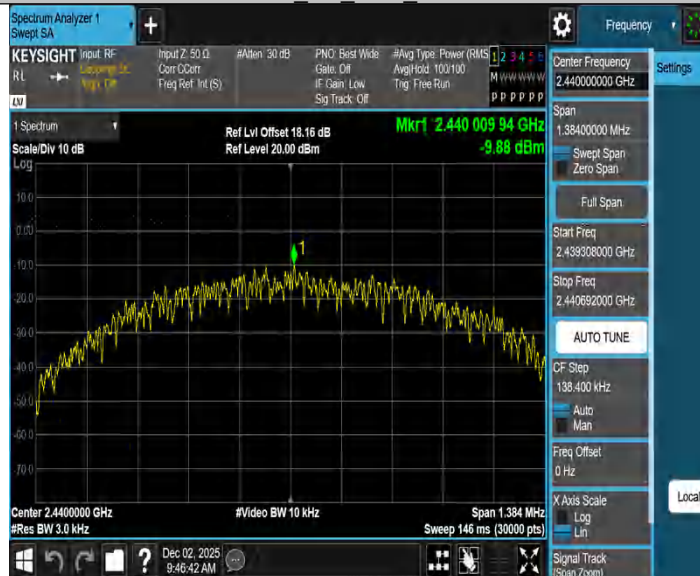
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.79	≤8.00	PASS
		2440	-9.88	≤8.00	PASS
		2480	-11.58	≤8.00	PASS
BLE_2M	Ant1	2402	-10.56	≤8.00	PASS
		2440	-12.55	≤8.00	PASS
		2480	-14.32	≤8.00	PASS

Test Graphs

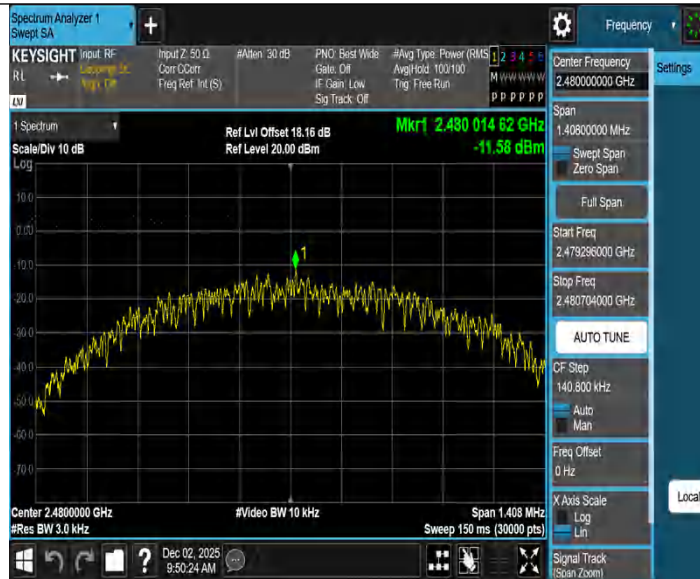
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.73	-43.45	≤-14.27	PASS
		High	2480	2.15	-42.02	≤-17.85	PASS
BLE_2M	Ant1	Low	2402	3.12	-27.21	≤-16.88	PASS
		High	2480	1.73	-41.37	≤-18.27	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE 2M Ant1 High 2480

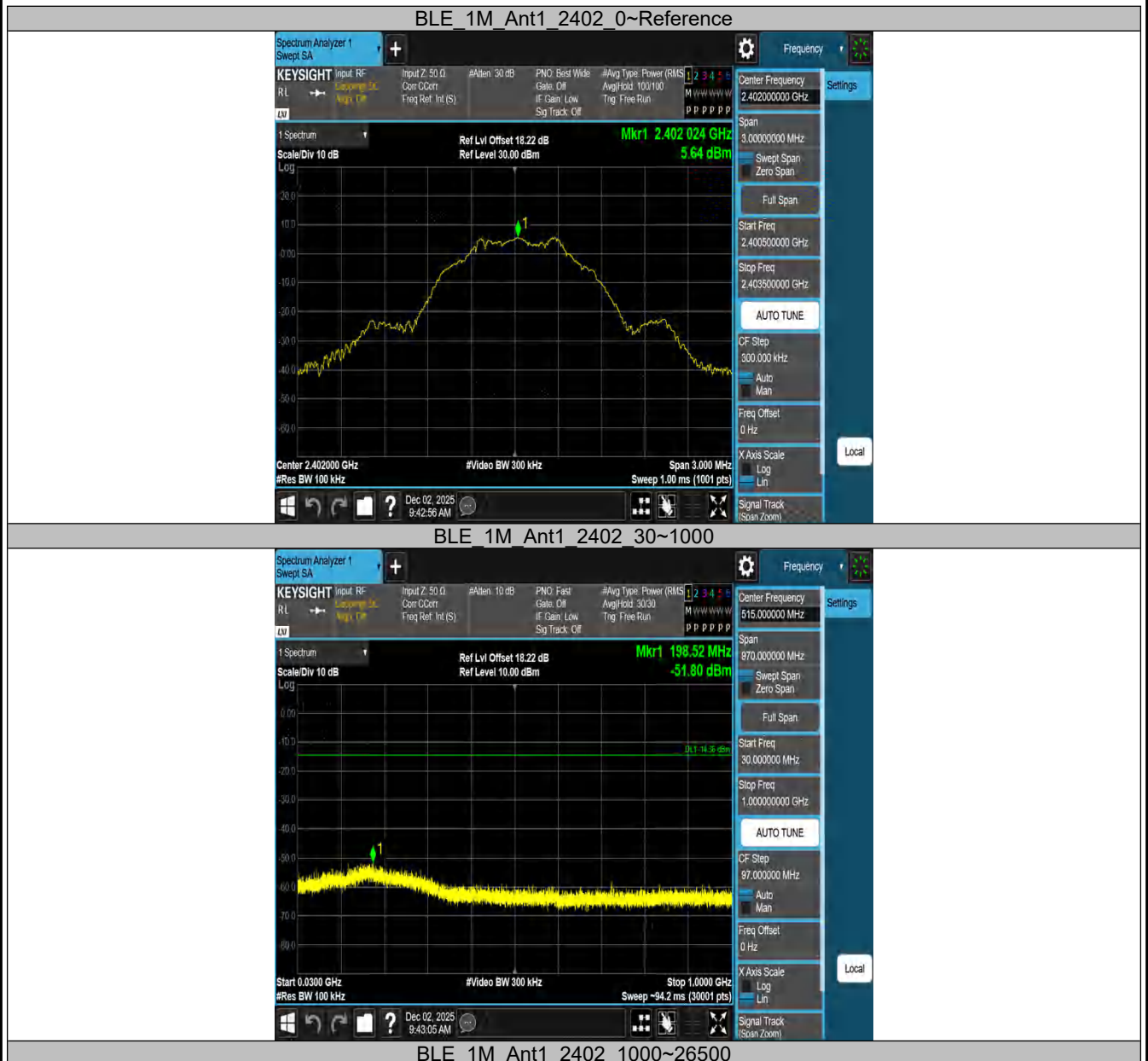


Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.64	5.64	---	PASS
			30~1000	5.64	-51.8	≤-14.36	PASS
			1000~26500	5.64	-53.5	≤-14.36	PASS
		2440	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-51.72	≤-16.18	PASS
			1000~26500	3.82	-53.33	≤-16.18	PASS
		2480	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-49.99	≤-17.93	PASS
			1000~26500	2.07	-53.49	≤-17.93	PASS
BLE_2M	Ant1	2402	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-51.77	≤-14.46	PASS
			1000~26500	5.54	-53.68	≤-14.46	PASS
		2440	Reference	3.58	3.58	---	PASS
			30~1000	3.58	-51.43	≤-16.42	PASS
			1000~26500	3.58	-53.29	≤-16.42	PASS
		2480	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-52.09	≤-18.16	PASS
			1000~26500	1.84	-53.91	≤-18.16	PASS

Test Graphs

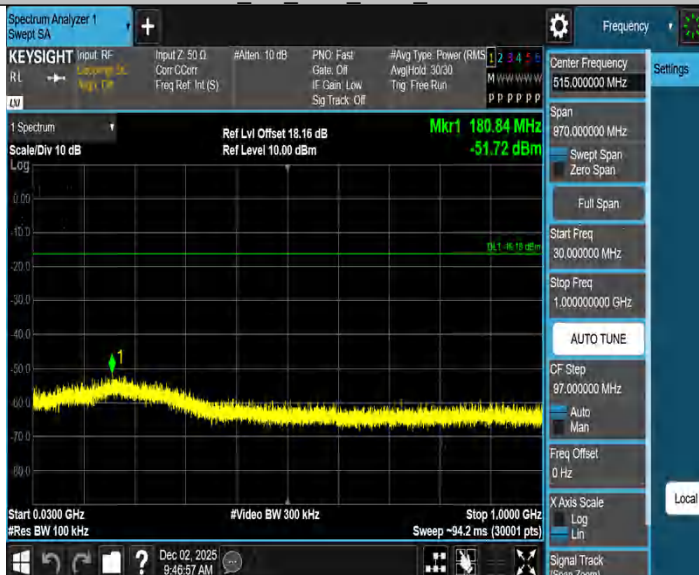




BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



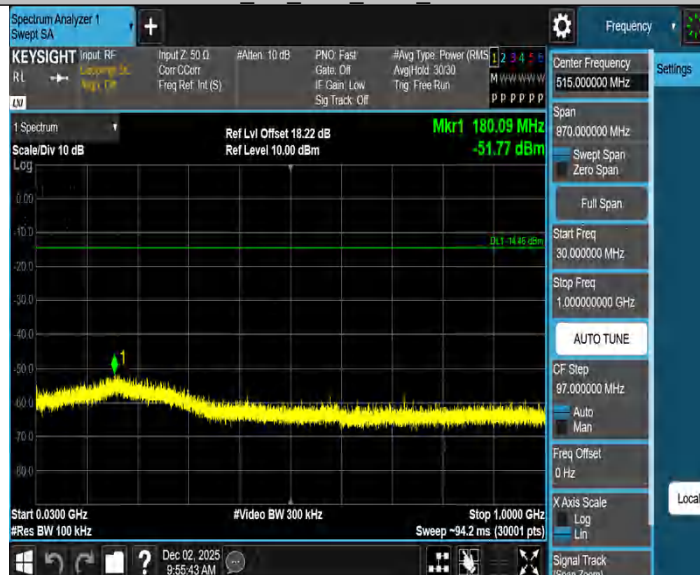
BLE 1M Ant1 2480 1000~26500



BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500



BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



BLE 2M Ant1 2440 1000~26500



BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



BLE 2M Ant1 2480 1000~26500



Appendix A.6: Test Results of Radiated Spurious Emissions

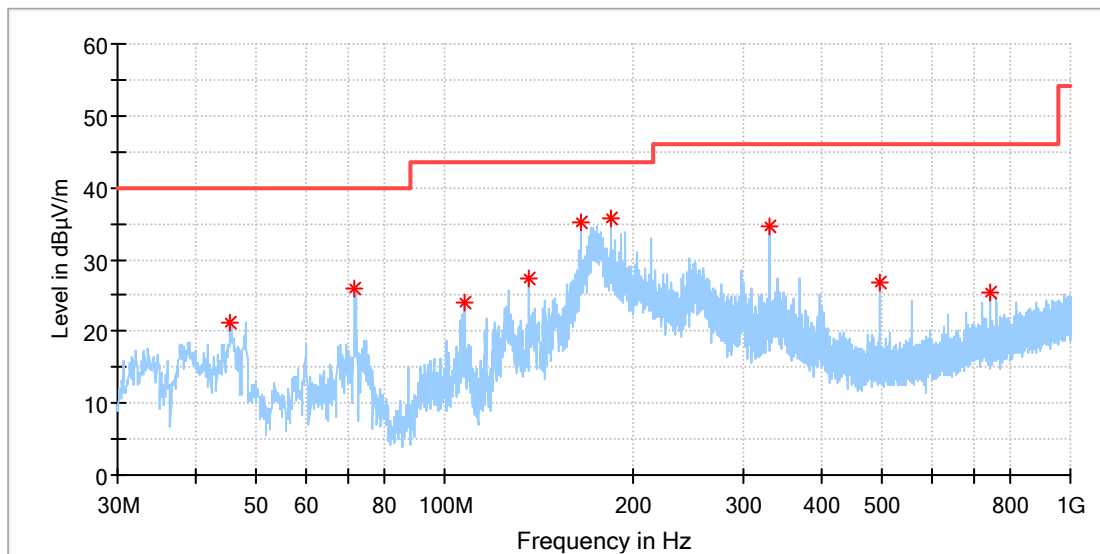
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) 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.

30 MHz - 1GHz

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Mid channel
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

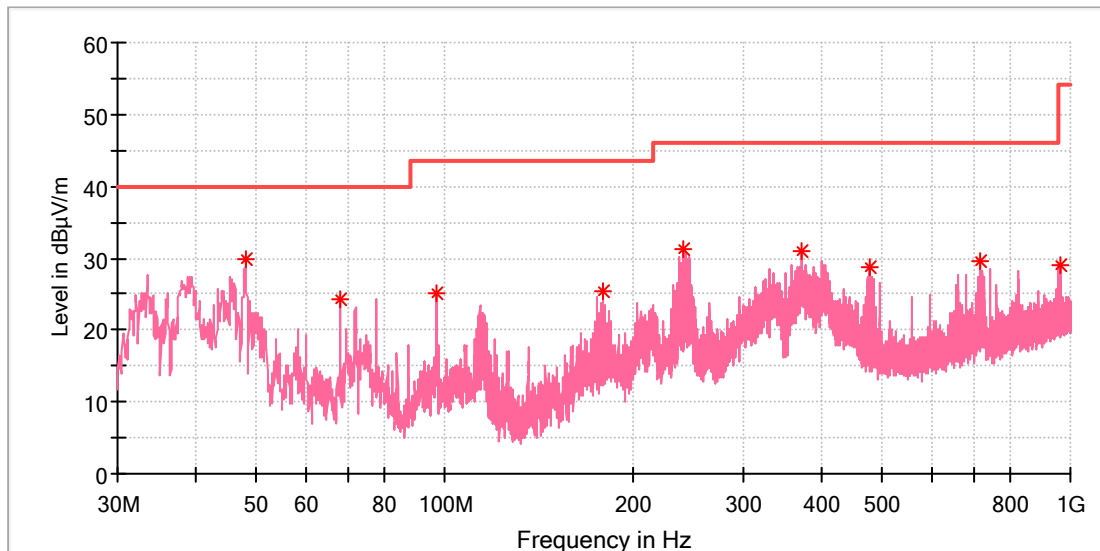
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.412222	21.17	40.00	18.83	100.0	H	301.0	-18.9
71.925556	26.03	40.00	13.97	100.0	H	281.0	-22.5
107.546111	23.92	43.50	19.58	100.0	H	120.0	-19.1
135.891667	27.33	43.50	16.17	100.0	H	147.0	-22.2
164.991667	35.05	43.50	8.45	100.0	H	92.0	-21.6
184.391667	35.59	43.50	7.91	100.0	H	65.0	-20.2
329.999444	34.70	46.00	11.30	100.0	H	45.0	-15.3
495.007222	26.70	46.00	19.30	100.0	H	310.0	-11.9
742.518889	25.48	46.00	20.52	100.0	H	310.0	-7.2

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: BLE 1M_Mid channel
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)
48.106667	29.96	40.00	10.04	100.0	V	25.0	-18.5
67.937778	24.35	40.00	15.65	100.0	V	269.0	-21.3
96.983889	25.16	43.50	18.34	100.0	V	0.0	-19.6
179.218333	25.39	43.50	18.11	100.0	V	299.0	-20.7
240.005000	31.34	46.00	14.66	100.0	V	128.0	-17.7
371.008889	31.02	46.00	14.98	100.0	V	32.0	-14.4
479.217778	28.75	46.00	17.25	100.0	V	141.0	-12.2
717.298889	29.54	46.00	16.46	100.0	V	340.0	-7.6
961.954444	29.12	54.00	24.88	100.0	V	315.0	-4.1

Final_Result

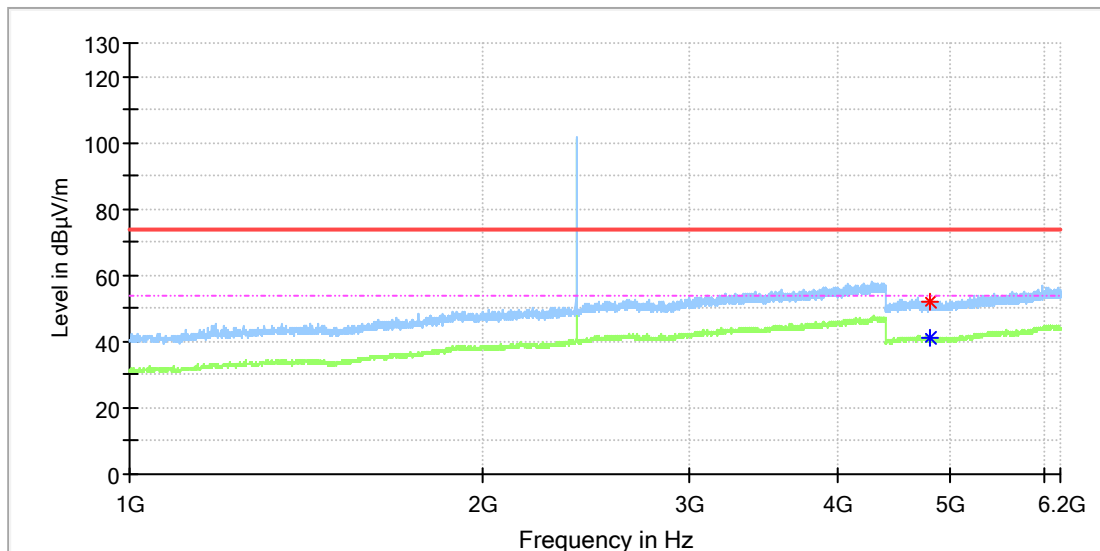
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Low channel
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

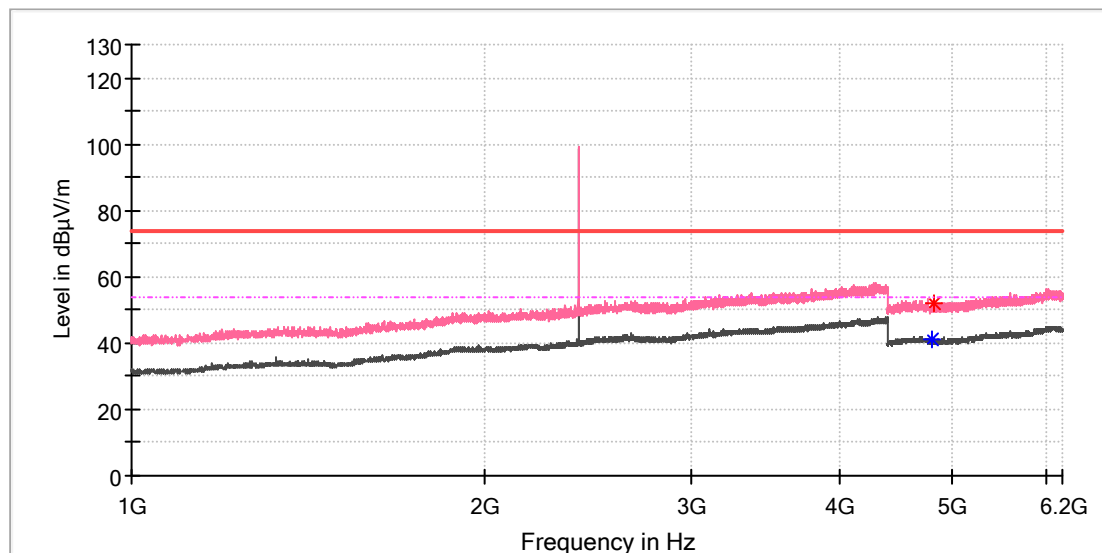
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.500000	52.05	---	74.00	21.95	150.0	H	327.0	13.3
4809.500000	---	41.14	54.00	12.86	150.0	H	333.0	13.3

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:	BLE 1M_Low channel
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

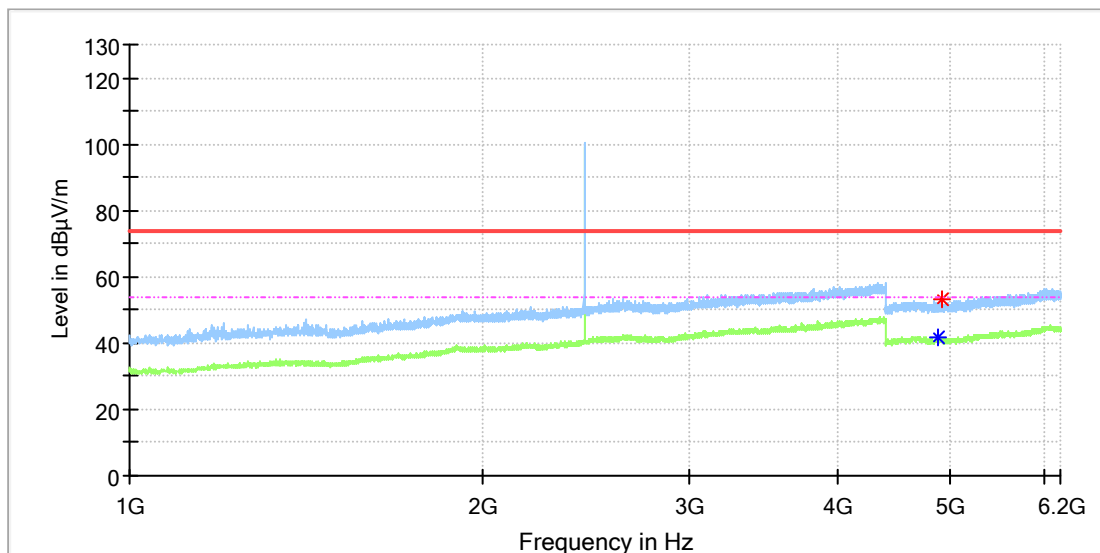
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4810.000000	---	40.89	54.00	13.11	150.0	V	281.0	13.3
4814.000000	52.02	---	74.00	21.98	150.0	V	300.0	13.3

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Mid channel
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

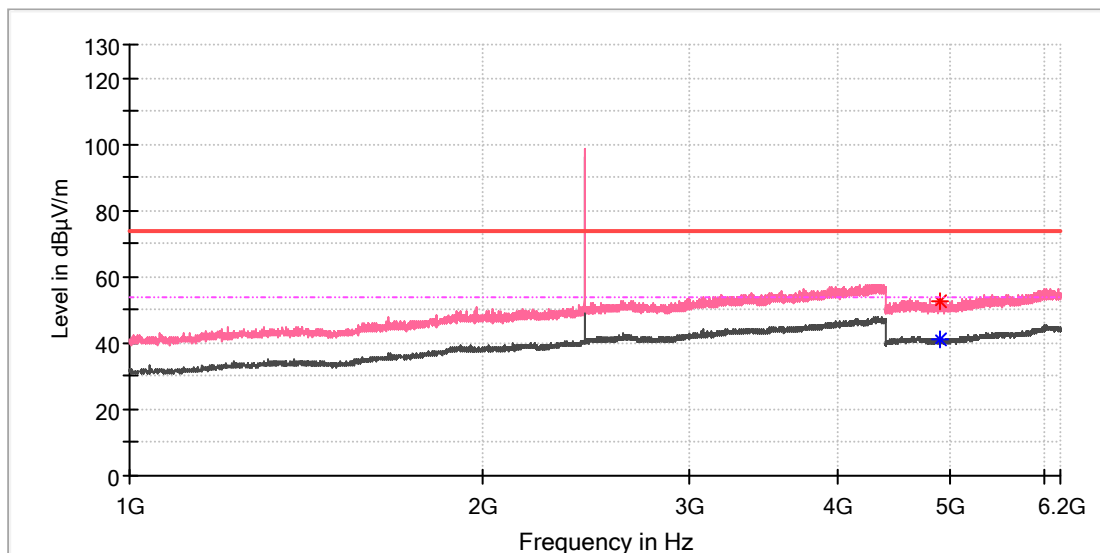
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.500000	---	41.48	54.00	12.52	150.0	H	173.0	13.3
4910.500000	53.14	---	74.00	20.86	150.0	H	242.0	13.3

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Mid channel
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

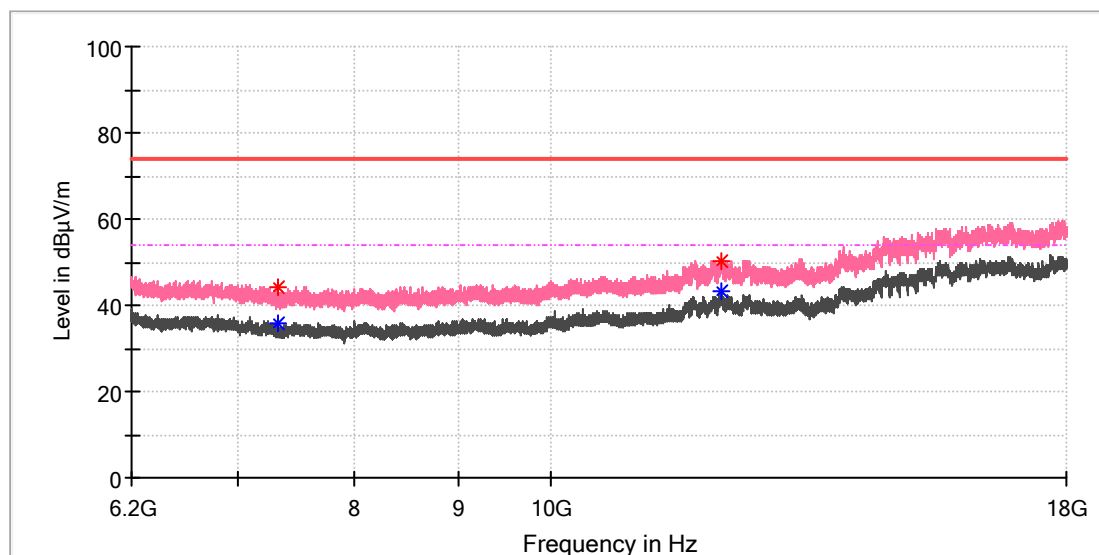
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4896.000000	---	41.32	54.00	12.68	150.0	V	96.0	13.3
4905.000000	52.66	---	74.00	21.34	150.0	V	195.0	13.3

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Mid channel
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

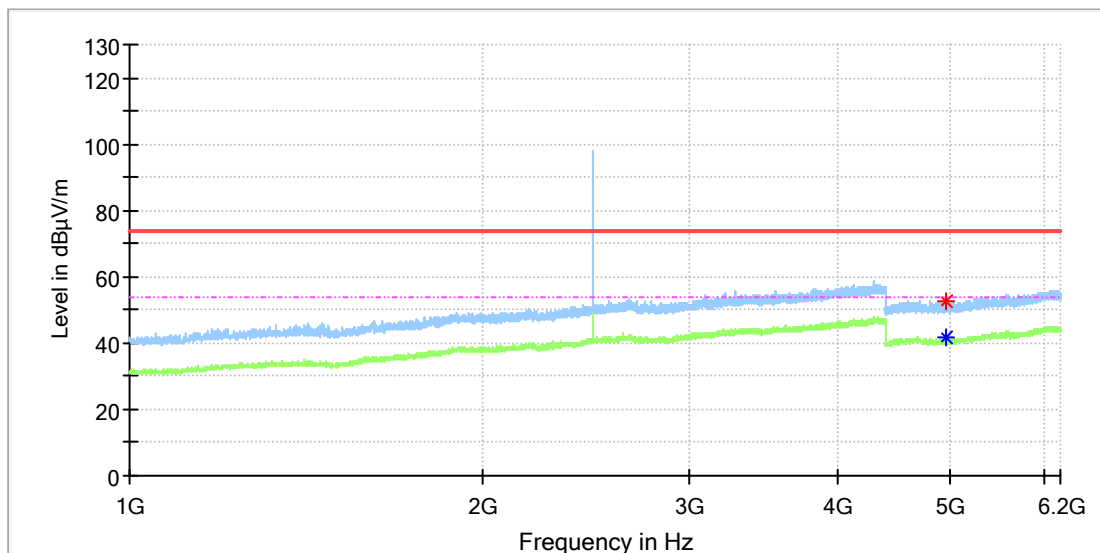
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	---	35.67	54.00	18.33	150.0	V	6.0	8.2
7320.508333	44.11	---	74.00	29.89	150.0	V	0.0	8.2
12151.625000	50.36	---	74.00	23.64	150.0	V	39.0	16.6
12151.625000	---	43.32	54.00	10.68	150.0	V	39.0	16.6

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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

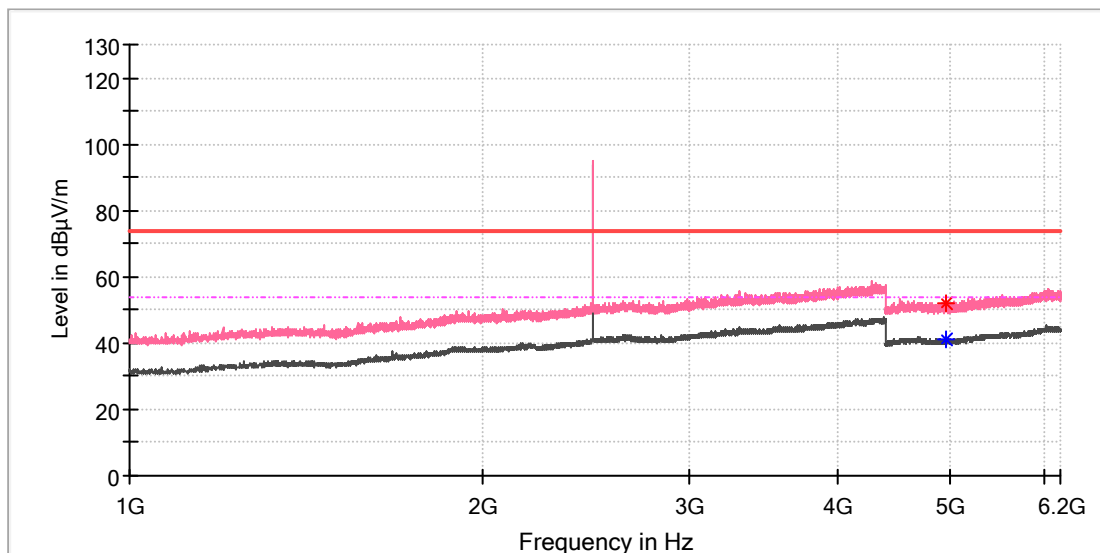
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.000000	52.47	---	74.00	21.53	150.0	H	123.0	13.3
4960.000000	---	41.61	54.00	12.39	150.0	H	276.0	13.3

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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

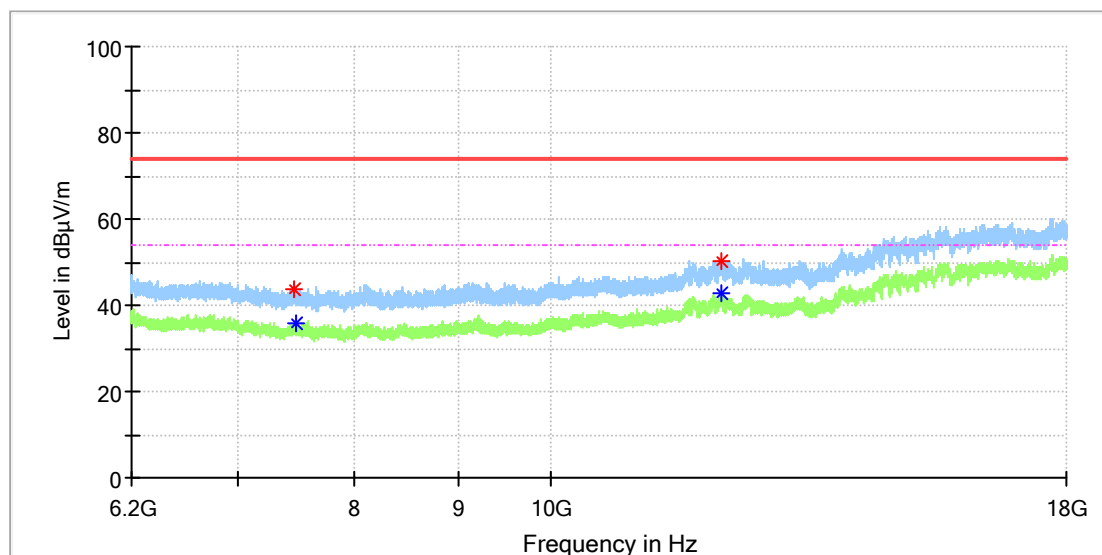
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4957.000000	52.12	---	74.00	21.88	150.0	V	160.0	13.3
4963.000000	---	41.24	54.00	12.76	150.0	V	291.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	115.0	115.0	0.0	100.0	0	0	0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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

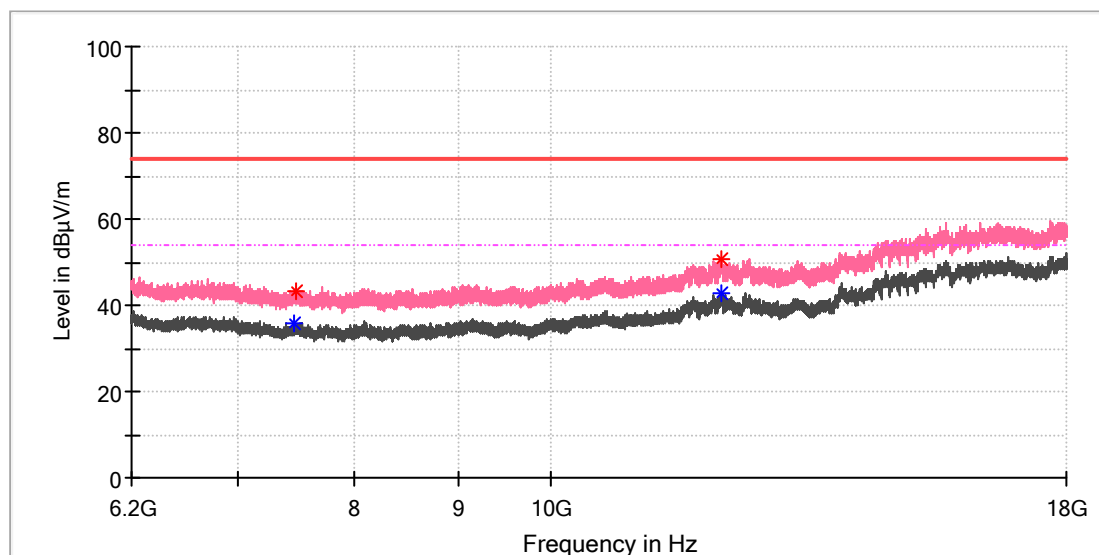
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7465.550000	43.69	---	74.00	30.31	150.0	H	207.0	8.6
7480.791667	---	35.73	54.00	18.27	150.0	H	346.0	8.7
12146.708333	50.11	---	74.00	23.89	150.0	H	79.0	16.6
12159.000000	---	42.60	54.00	11.40	150.0	H	218.0	16.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	Pol	135	0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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)
7464.075000	---	35.62	54.00	18.38	150.0	V	102.0	8.6
7485.216667	43.16	---	74.00	30.84	150.0	V	311.0	8.7
12148.183333	---	42.62	54.00	11.38	150.0	V	230.0	16.7
12150.641667	50.69	---	74.00	23.31	150.0	V	40.0	16.7

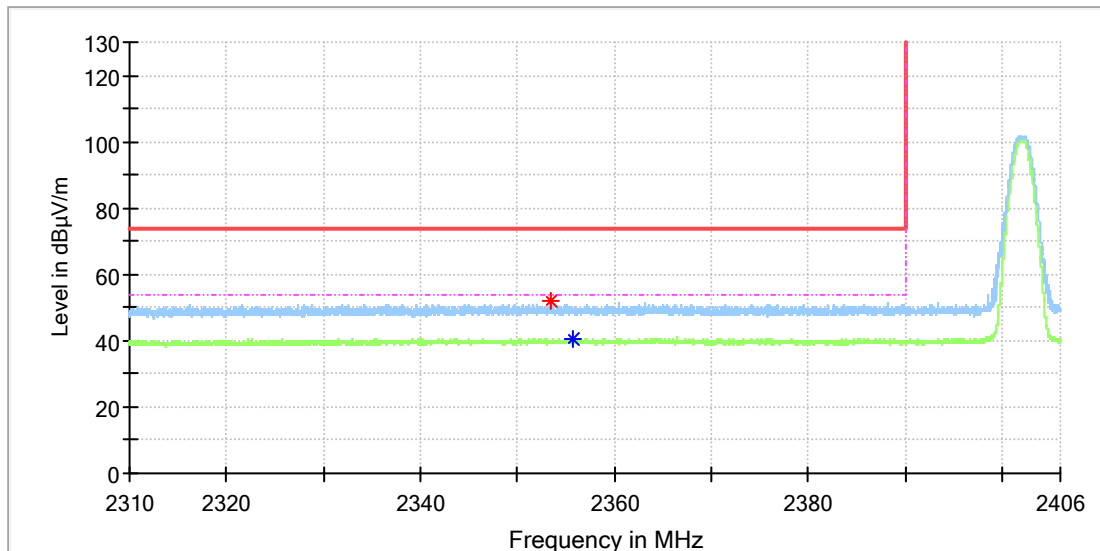
Final Result

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

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Low channel
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

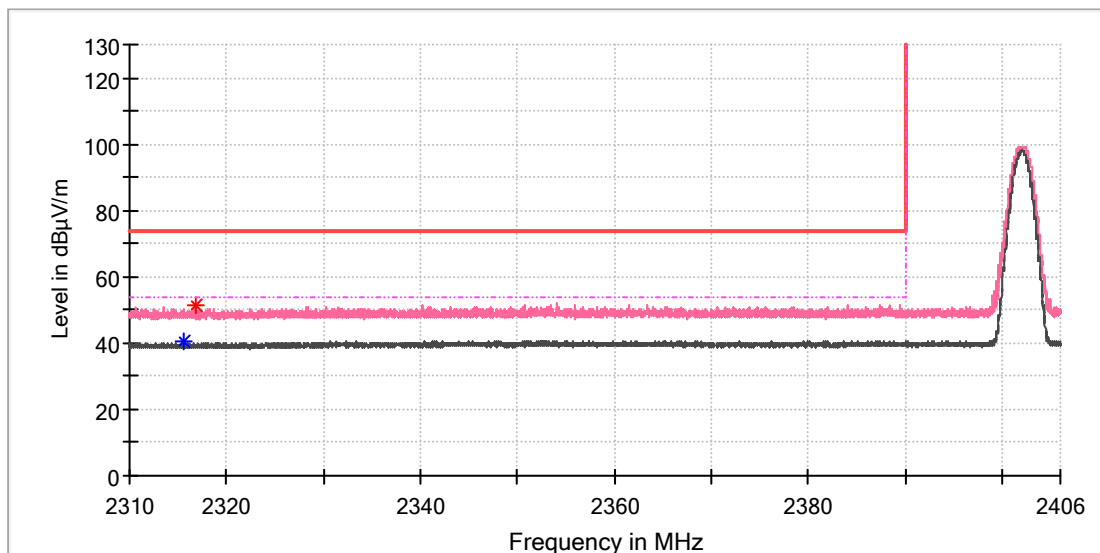
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.454118	51.82	---	74.00	22.18	150.0	H	341.0	8.5
2355.642353	---	40.42	54.00	13.58	150.0	H	291.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_Low channel
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

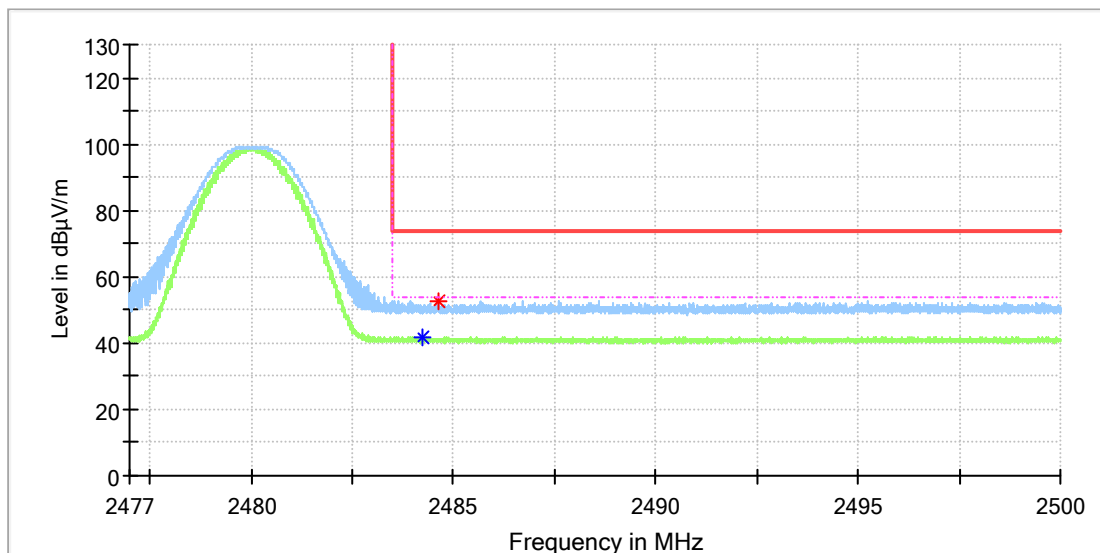
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2315.632941	---	40.73	54.00	13.27	150.0	V	49.0	8.2
2316.832941	51.61	---	74.00	22.39	150.0	V	205.0	8.2

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	118.0	118.0	118.0	0.0	100.0	0	0	0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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

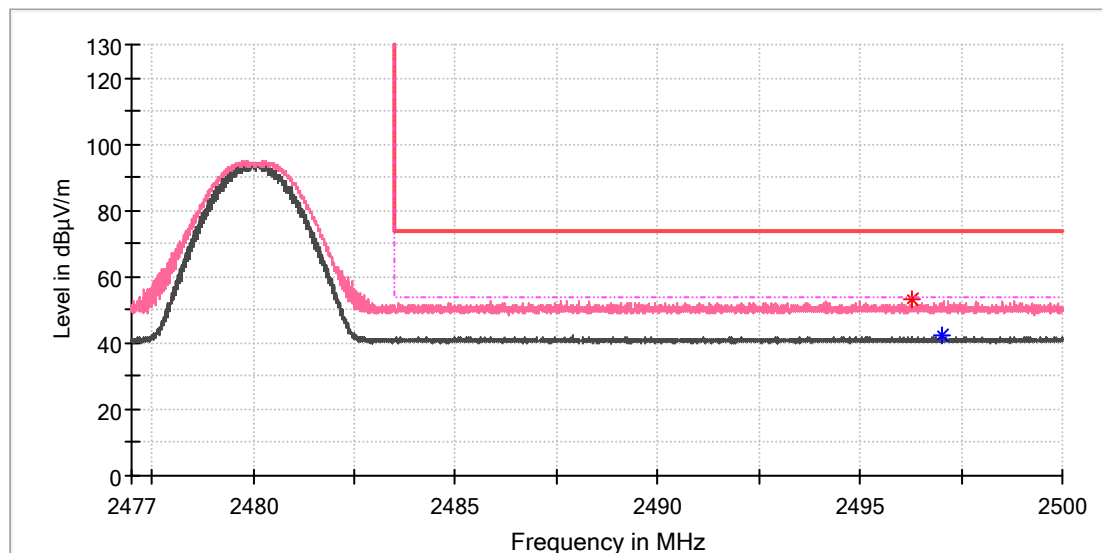
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.214559	---	41.72	54.00	12.28	150.0	H	302.0	9.0
2484.620441	52.89	---	74.00	21.11	150.0	H	263.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	59.0	56.0	59.0	0.0	100.0	0	0	0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 1M_High channel
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

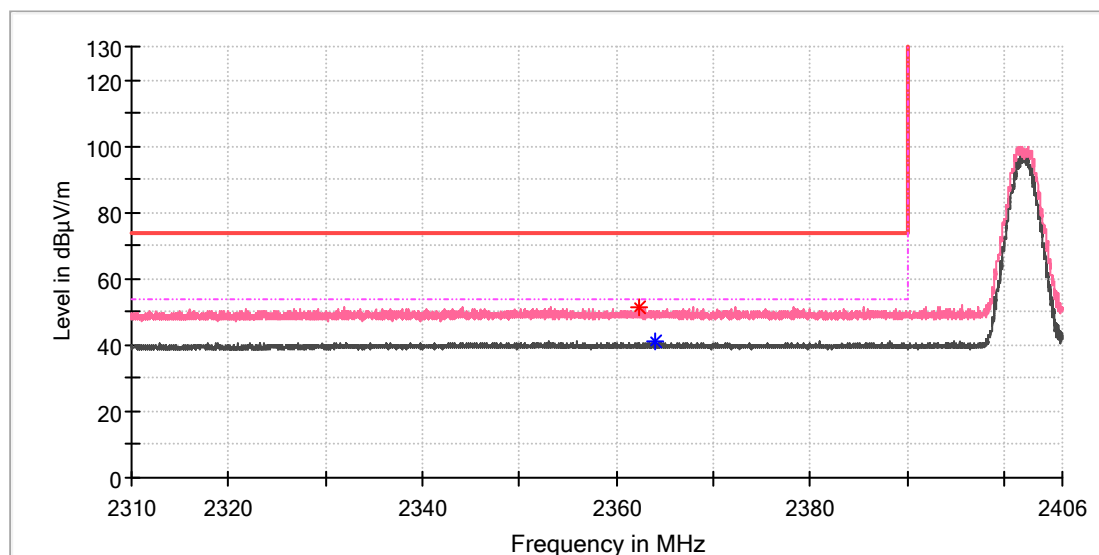
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2496.269265	53.23	---	74.00	20.77	150.0	V	156.0	9.0
2497.033677	---	42.32	54.00	11.68	150.0	V	53.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	h	135	0

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 2M_Low channel
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

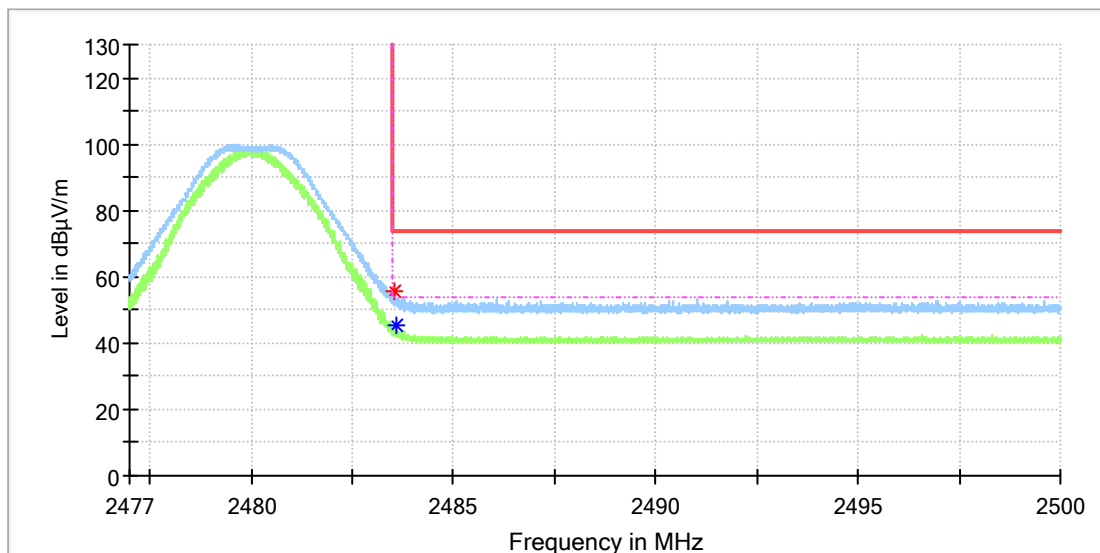
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.348235	51.67	---	74.00	22.33	150.0	V	76.0	8.5
2363.985882	---	41.09	54.00	12.91	150.0	V	146.0	8.5

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 2M_High channel
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

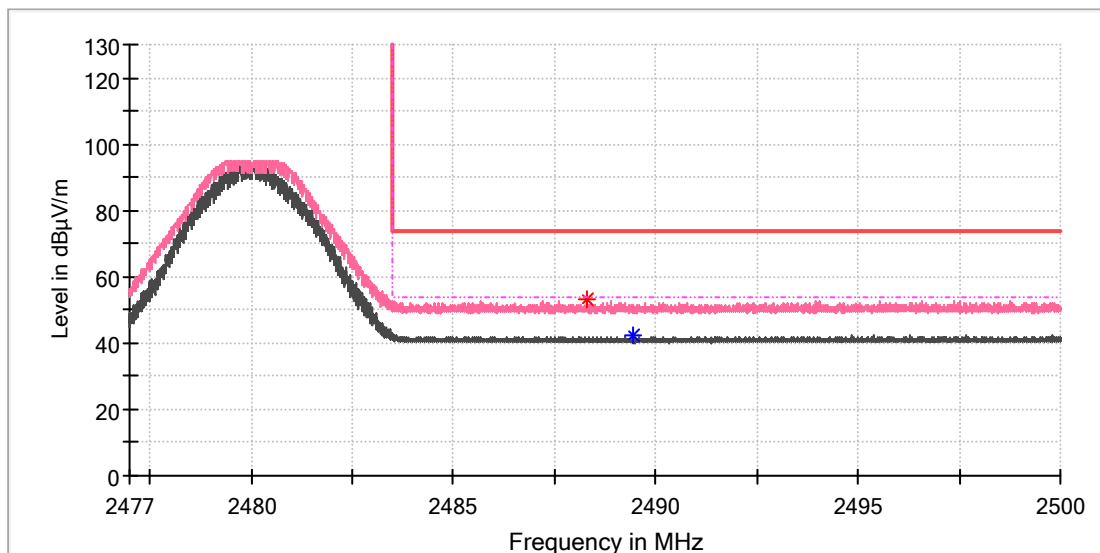
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.558382	55.40	---	74.00	18.60	150.0	H	30.0	9.0
2483.571912	---	45.30	54.00	8.70	150.0	H	19.0	9.0

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	100.000000

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20X
Test Mode:	BLE 2M_High channel
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)
2488.317353	52.94	---	74.00	21.06	150.0	V	238.0	9.0
2489.460588	---	42.06	54.00	11.94	150.0	V	49.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	59.5	59.5	59.5	0.0	100	0	0	0

Appendix B: Test Results of 2.4GHz Wi-Fi

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Appendix B.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.920	2416.000	0.5	PASS
		2437	8.120	2432.920	2441.040	0.5	PASS
		2462	8.200	2457.880	2466.080	0.5	PASS
11G	Ant1	2412	14.560	2404.440	2419.000	0.5	PASS
		2437	14.320	2429.400	2443.720	0.5	PASS
		2462	14.160	2454.200	2468.360	0.5	PASS
11N20SISO	Ant1	2412	14.280	2403.680	2417.960	0.5	PASS
		2437	16.040	2428.560	2444.600	0.5	PASS
		2462	13.600	2454.560	2468.160	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462





Appendix B.2: Test Results of 99% Bandwidth

Test Result

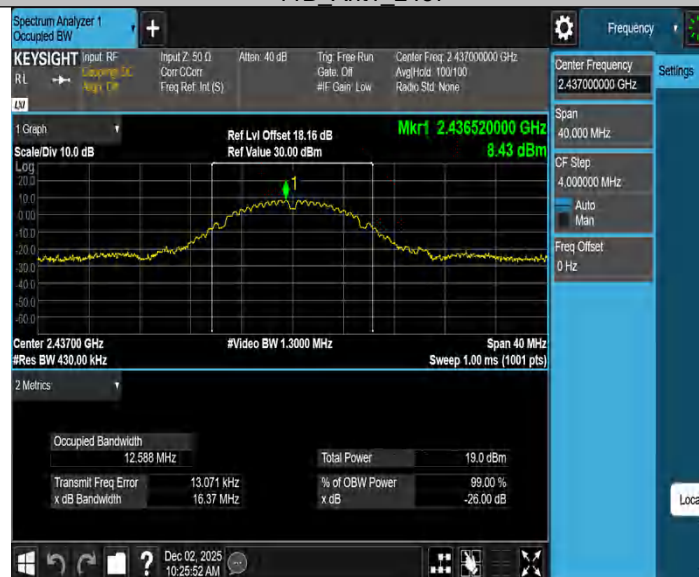
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.382	2405.8874	2418.2694	---	PASS
		2437	12.588	2430.7191	2443.3071	---	PASS
		2462	12.775	2455.6082	2468.3832	---	PASS
11G	Ant1	2412	17.153	2403.3983	2420.5513	---	PASS
		2437	17.117	2428.3835	2445.5005	---	PASS
		2462	17.023	2453.4432	2470.4662	---	PASS
11N20SISO	Ant1	2412	18.115	2403.0127	2421.1277	---	PASS
		2437	18.191	2427.9215	2446.1125	---	PASS
		2462	18.168	2452.8979	2471.0659	---	PASS

Test Graphs

11B_Ant1_2412

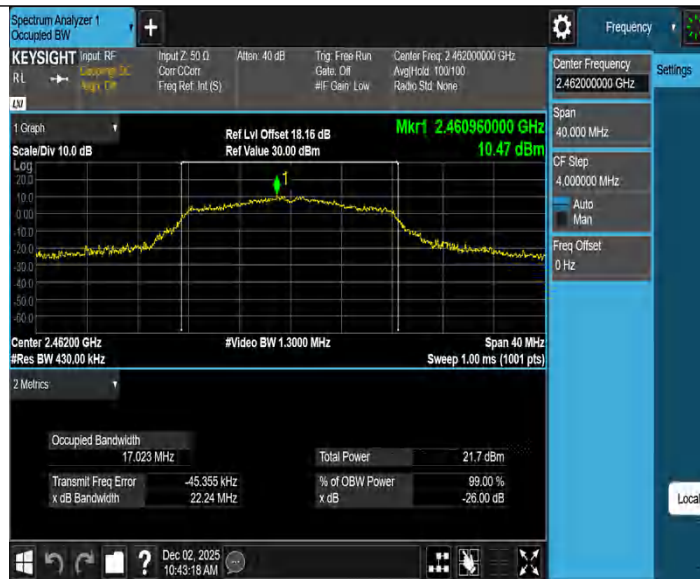


11B_Ant1_2437



11B_Ant1_2462





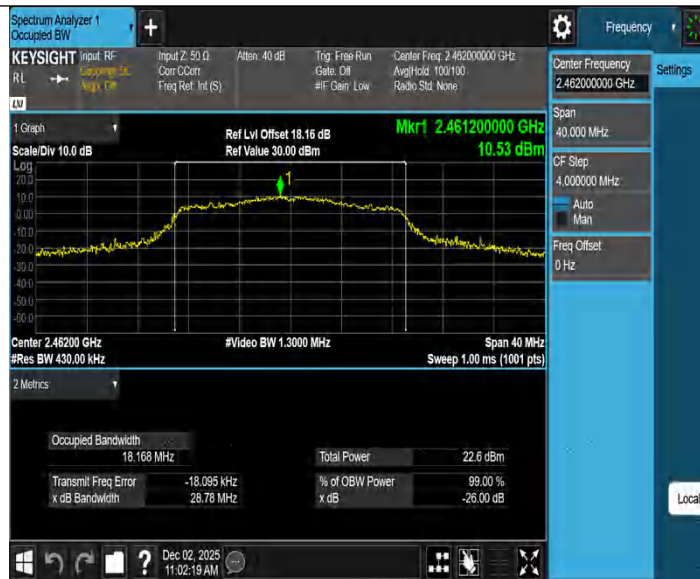
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



Appendix B.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.98	≤8.00	PASS
		2437	-5.53	≤8.00	PASS
		2462	-3.92	≤8.00	PASS
11G	Ant1	2412	-5.76	≤8.00	PASS
		2437	-6.31	≤8.00	PASS
		2462	-6.54	≤8.00	PASS
11N20SISO	Ant1	2412	-5.30	≤8.00	PASS
		2437	-5.92	≤8.00	PASS
		2462	-5.94	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



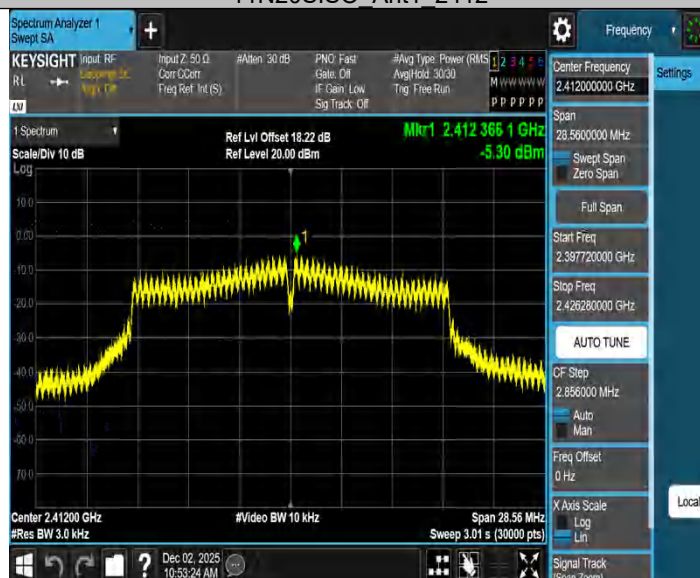
11G_Ant1_2412

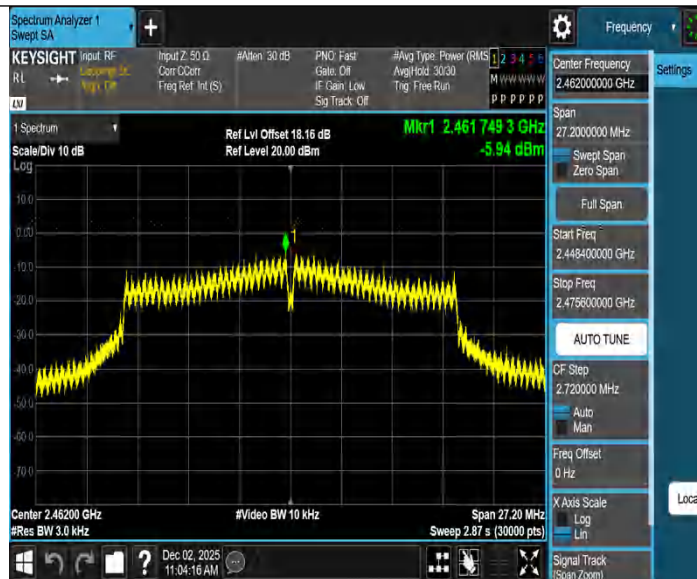


11G_Ant1_2437



11G_Ant1_2462





Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.13	-30.66	≤-10.87	PASS
		High	2462	7.63	-37.41	≤-12.37	PASS
11G	Ant1	Low	2412	5.12	-24.39	≤-14.88	PASS
		High	2462	4.47	-36.77	≤-15.53	PASS
11N20SISO	Ant1	Low	2412	6.41	-24.85	≤-13.59	PASS
		High	2462	5.59	-33.34	≤-14.41	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462



Appendix B.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.21	8.21	---	PASS
			30~1000	8.21	-51.42	≤-11.79	PASS
			1000~26500	8.21	-40.75	≤-11.79	PASS
		2437	Reference	6.63	6.63	---	PASS
			30~1000	6.63	-51.88	≤-13.37	PASS
			1000~26500	6.63	-43.03	≤-13.37	PASS
		2462	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-51.15	≤-13.6	PASS
			1000~26500	6.40	-44.11	≤-13.6	PASS
11G	Ant1	2412	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-51.7	≤-15.49	PASS
			1000~26500	4.51	-47.76	≤-15.49	PASS
		2437	Reference	4.50	4.50	---	PASS
			30~1000	4.50	-51.08	≤-15.5	PASS
			1000~26500	4.50	-50.86	≤-15.5	PASS
		2462	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-51.7	≤-15.93	PASS
			1000~26500	4.07	-52.23	≤-15.93	PASS
11N20SISO	Ant1	2412	Reference	5.98	5.98	---	PASS
			30~1000	5.98	-51.18	≤-14.02	PASS
			1000~26500	5.98	-46.66	≤-14.02	PASS
		2437	Reference	5.71	5.71	---	PASS
			30~1000	5.71	-51.07	≤-14.29	PASS
			1000~26500	5.71	-38	≤-14.29	PASS
		2462	Reference	5.14	5.14	---	PASS
			30~1000	5.14	-52.11	≤-14.86	PASS
			1000~26500	5.14	-49.11	≤-14.86	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



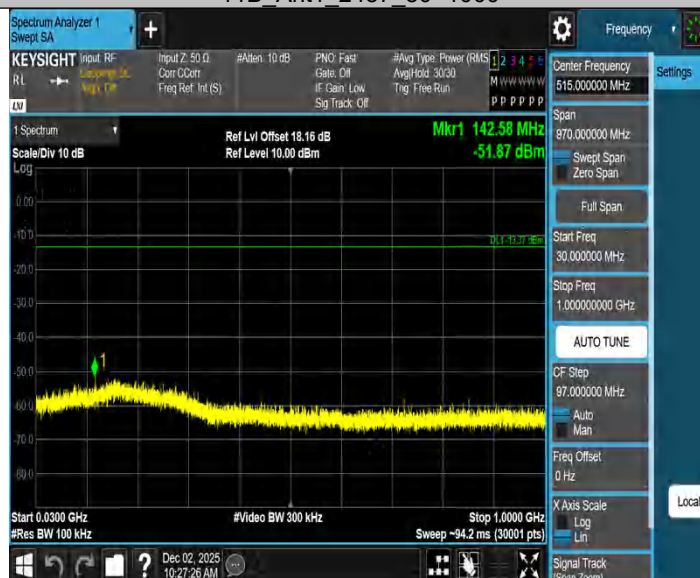
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G Ant1_2412_0~Reference



11G Ant1_2412_30~1000



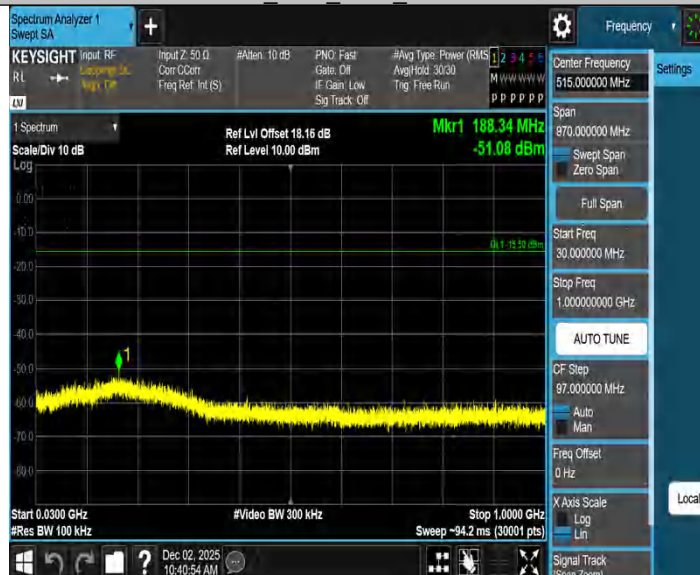
11G Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



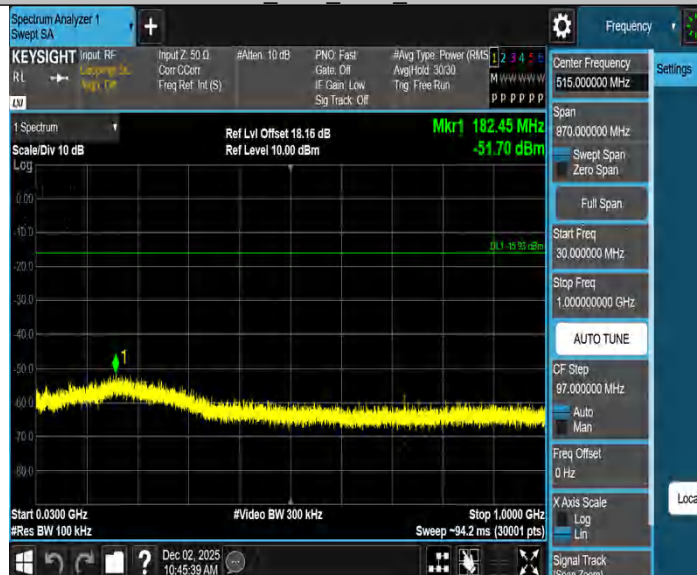
11G_Ant1_2437_1000~26500



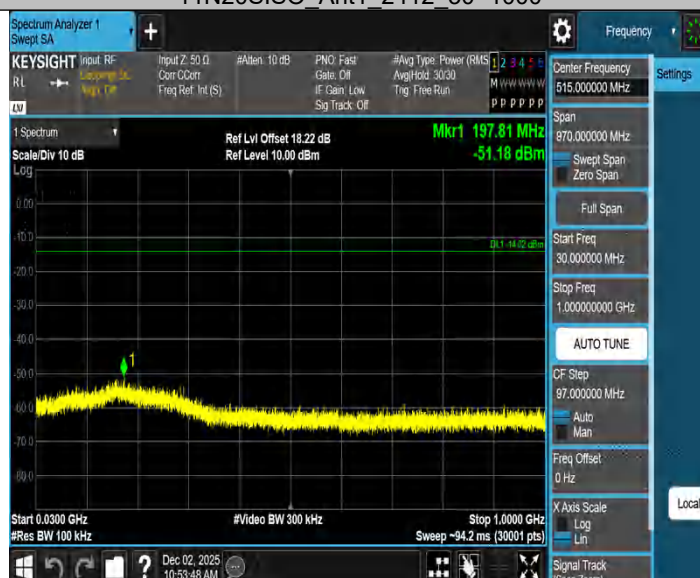
11G_Ant1_2462_0~Reference

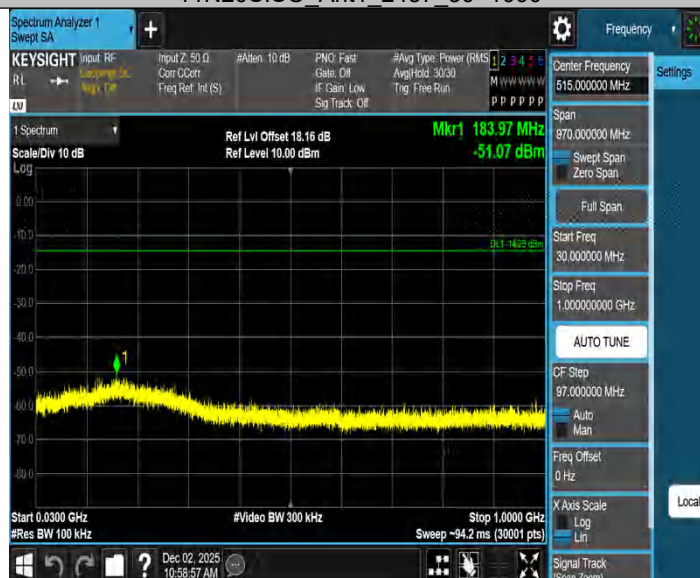


11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



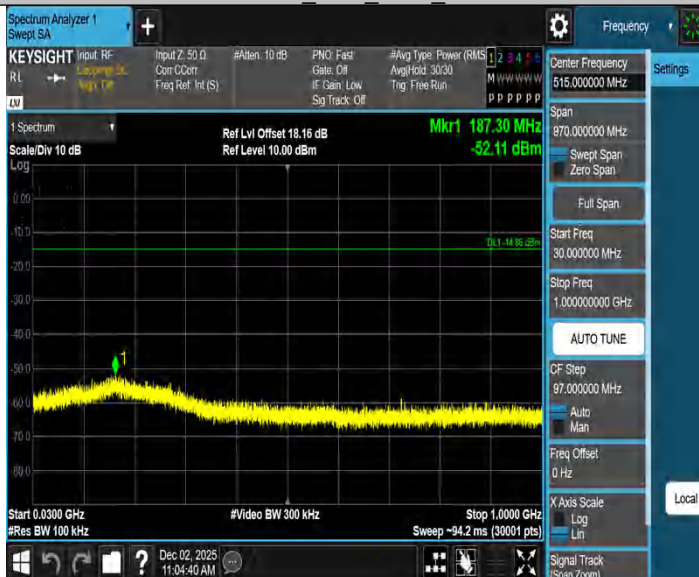




11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix B.6: Test Results of Radiated Spurious Emissions

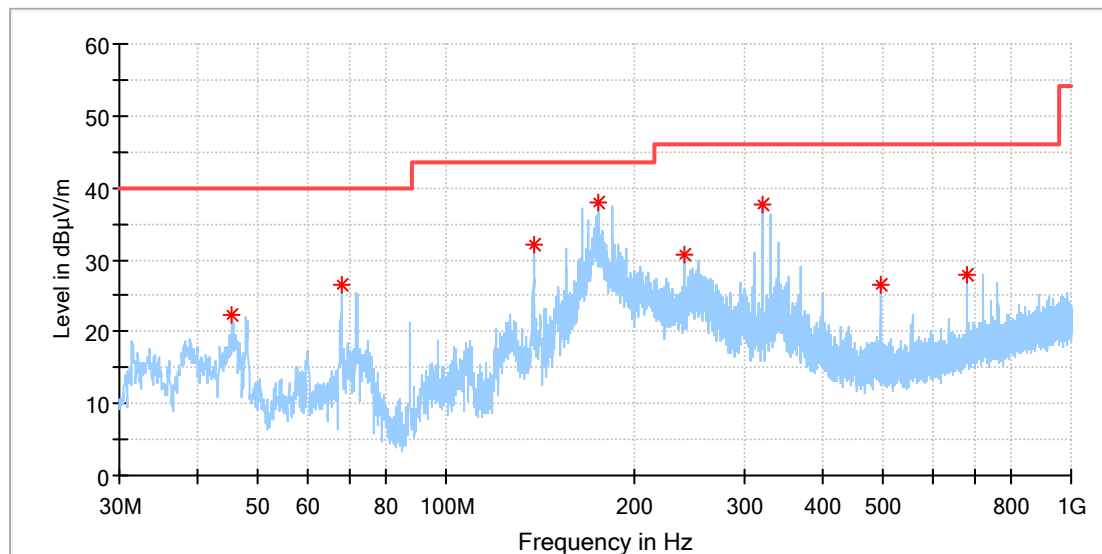
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) 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.

30MHz - 1GHz

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch6
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

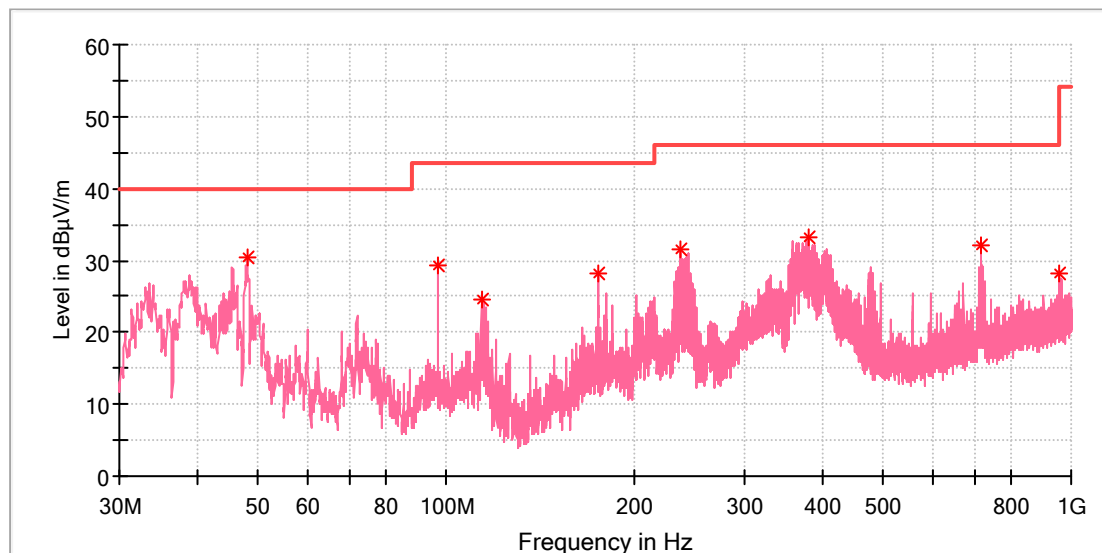
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.520000	22.32	40.00	17.68	100.0	H	83.0	-18.9
67.991667	26.40	40.00	13.60	100.0	H	93.0	-21.3
138.101111	32.12	43.50	11.38	100.0	H	63.0	-22.3
174.691667	38.09	43.50	5.41	100.0	H	93.0	-21.0
240.005000	30.75	46.00	15.25	100.0	H	227.0	-17.7
320.515000	37.71	46.00	8.29	100.0	H	21.0	-15.7
495.061111	26.63	46.00	19.37	100.0	H	293.0	-11.9
680.546667	28.00	46.00	18.00	100.0	H	282.0	-8.3

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: C20
Test Mode: WIFI 2.4G_11b_Ch6
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)
47.998889	30.40	40.00	9.60	100.0	V	14.0	-18.5
97.037778	29.36	43.50	14.14	100.0	V	335.0	-19.5
113.743333	24.62	43.50	18.88	100.0	V	96.0	-19.7
174.691667	28.26	43.50	15.24	100.0	V	295.0	-21.0
237.256667	31.61	46.00	14.39	100.0	V	41.0	-17.8
380.708889	33.26	46.00	12.74	100.0	V	57.0	-14.2
717.298889	32.14	46.00	13.86	100.0	V	0.0	-7.6
960.014444	28.26	54.00	25.74	100.0	V	289.0	-4.1

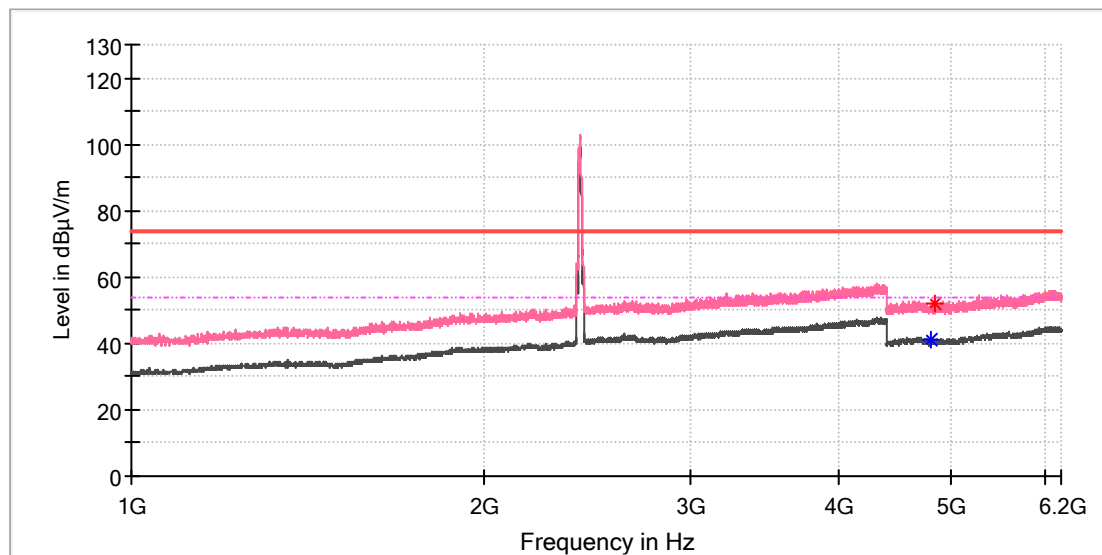
Final Result

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

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch1
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

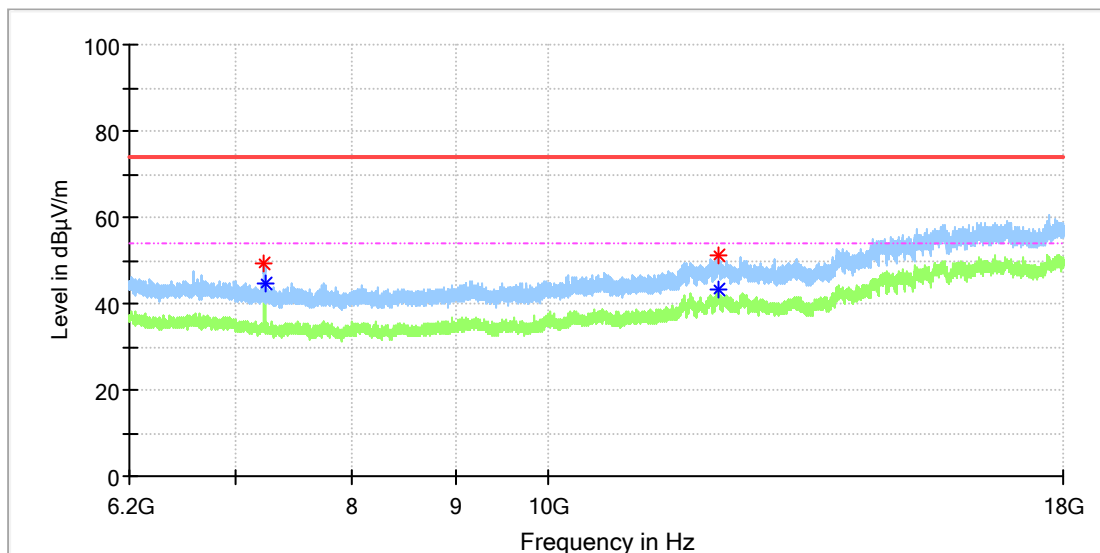
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4809.000000	---	41.07	54.00	12.93	150.0	V	197.0	13.3
4847.500000	52.18	---	74.00	21.82	150.0	V	257.0	13.3

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch1
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

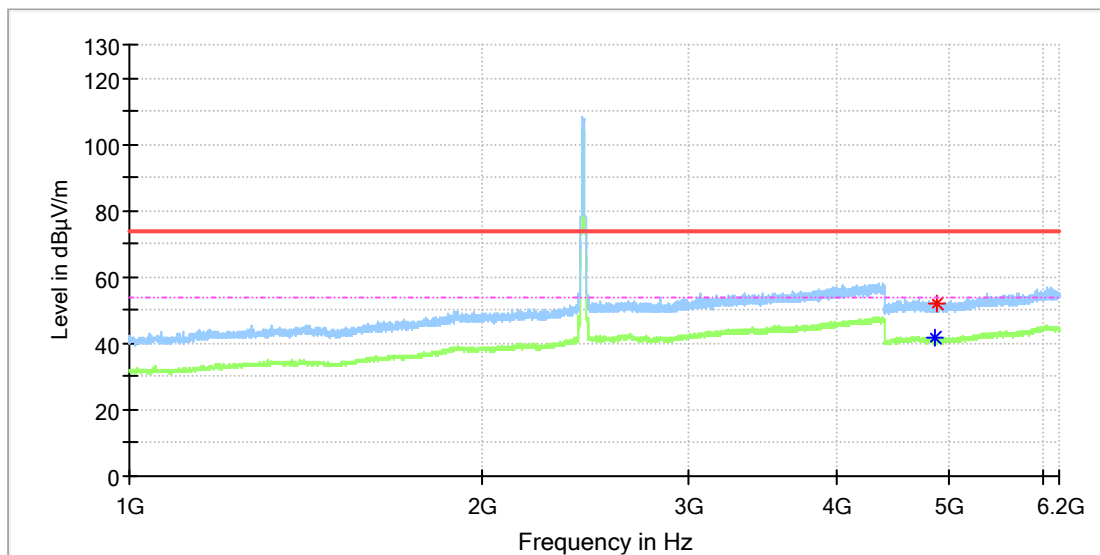
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7233.975000	49.15	---	74.00	24.85	150.0	H	36.0	8.6
7236.433333	---	44.77	54.00	9.23	150.0	H	36.0	8.6
12139.333333	---	43.09	54.00	10.91	150.0	H	252.0	16.5
12141.300000	50.94	---	74.00	23.06	150.0	H	96.0	16.5

Final Result

[illegible]

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch6
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

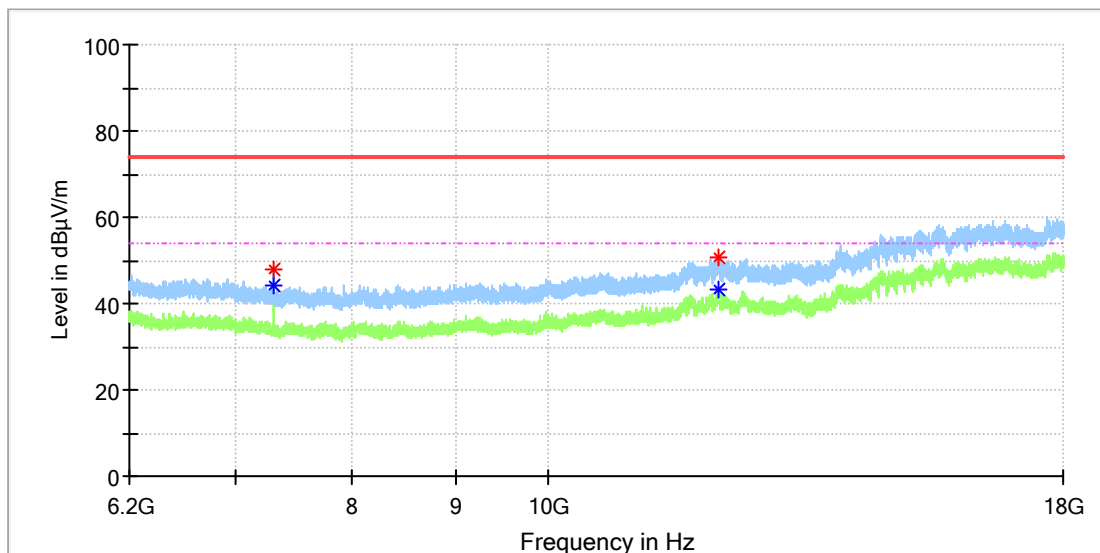
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4864.000000	---	41.99	54.00	12.01	150.0	H	172.0	13.3
4884.500000	52.17	---	74.00	21.83	150.0	H	17.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch6
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

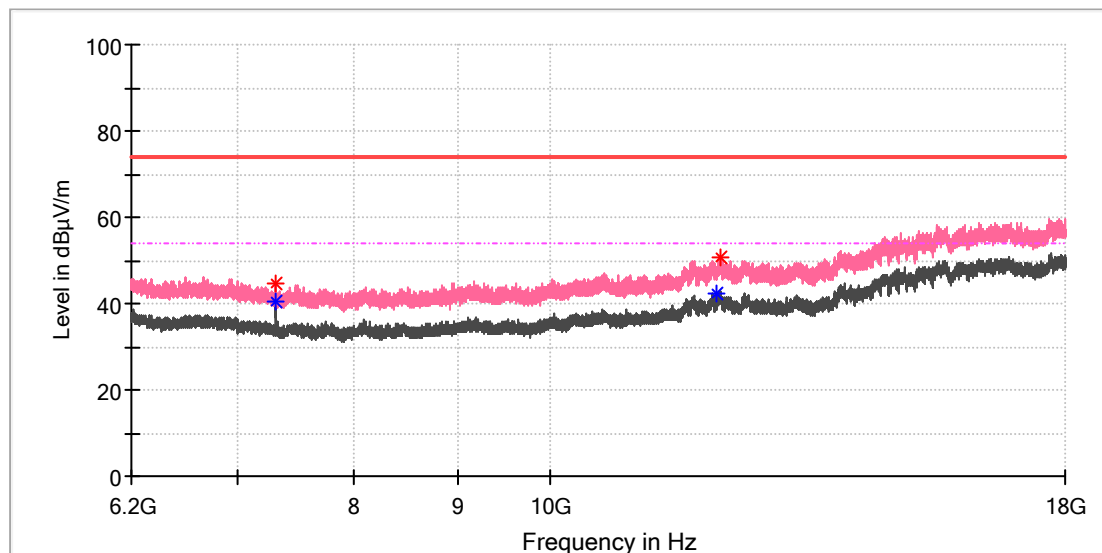
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	---	44.04	54.00	9.96	150.0	H	34.0	8.2
7311.658333	48.07	---	74.00	25.93	150.0	H	34.0	8.2
12137.366667	---	43.10	54.00	10.90	150.0	H	0.0	16.4
12151.133333	50.51	---	74.00	23.49	150.0	H	349.0	16.7

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch6
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

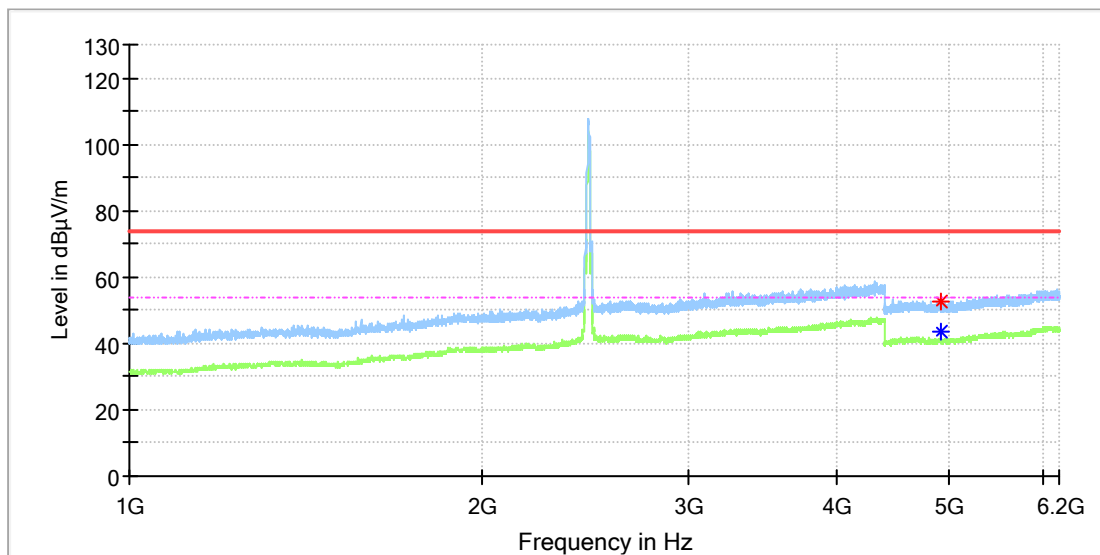
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.691667	44.78	---	74.00	29.22	150.0	V	48.0	8.2
7309.691667	---	40.24	54.00	13.76	150.0	V	48.0	8.2
12101.966667	---	42.51	54.00	11.49	150.0	V	64.0	15.5
12152.608333	50.51	---	74.00	23.49	150.0	V	206.0	16.6

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch11
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

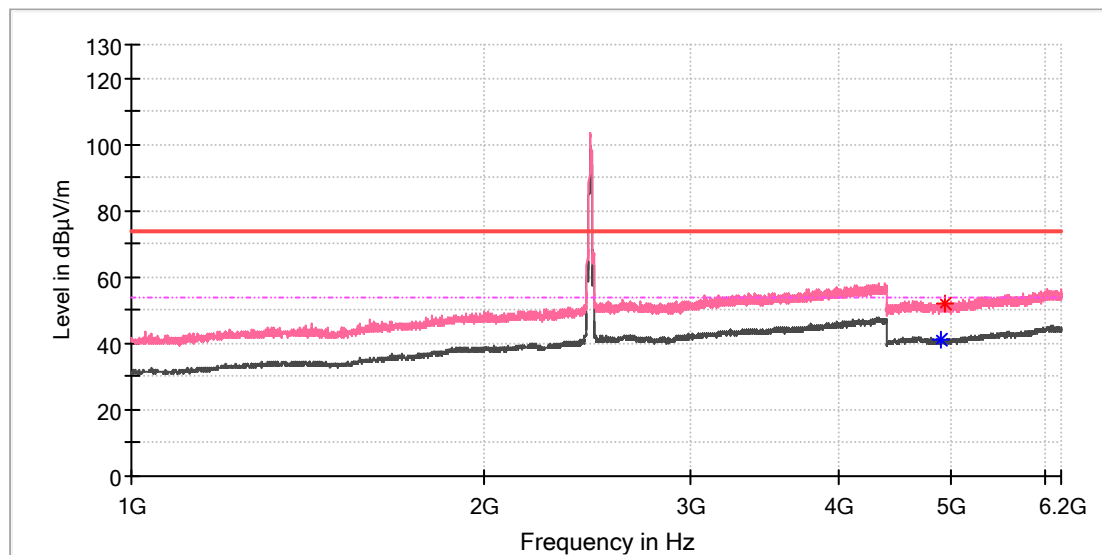
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	43.30	54.00	10.70	150.0	H	172.0	13.3
4925.000000	52.66	---	74.00	21.34	150.0	H	178.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch11
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

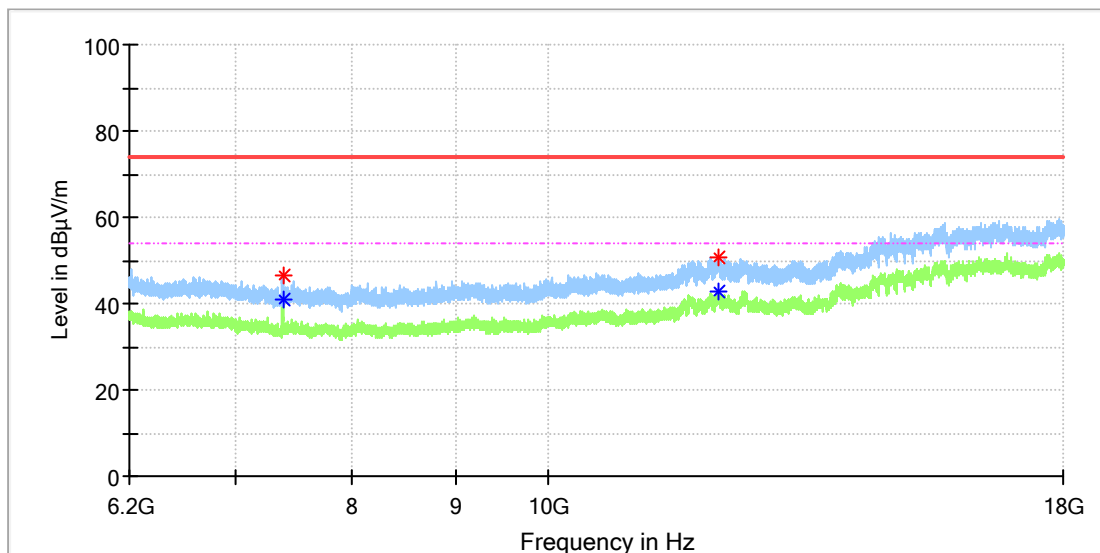
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4906.000000	---	41.06	54.00	12.94	150.0	V	232.0	13.3
4940.500000	52.07	---	74.00	21.93	150.0	V	342.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch11
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

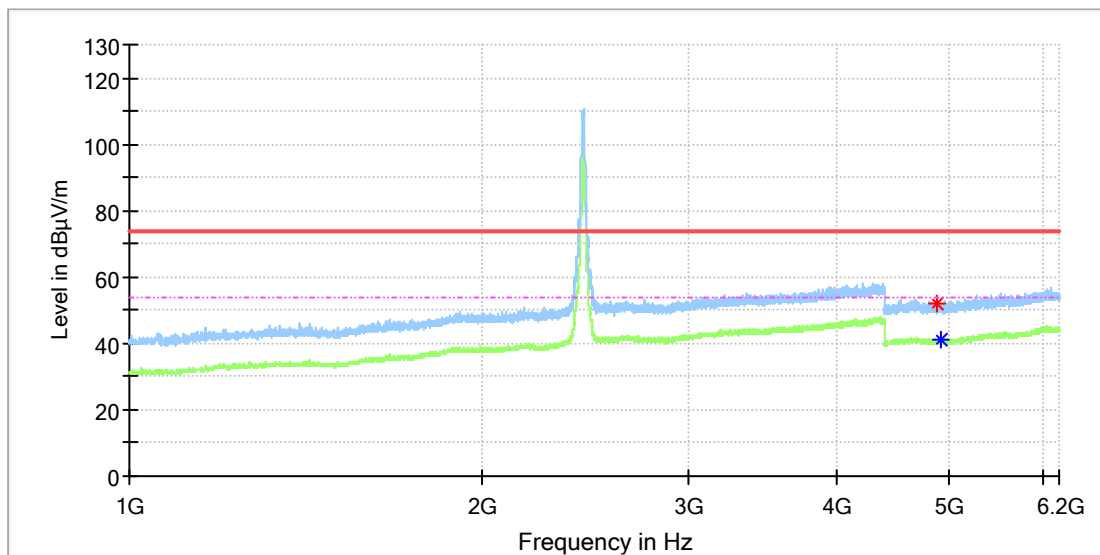
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7386.391667	46.32	---	74.00	27.68	150.0	H	0.0	8.2
7386.883333	---	41.00	54.00	13.00	150.0	H	35.0	8.2
12145.725000	---	42.68	54.00	11.32	150.0	H	226.0	16.6
12154.575000	50.91	---	74.00	23.09	150.0	H	359.0	16.5

Final Result

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

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11g_Ch6
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

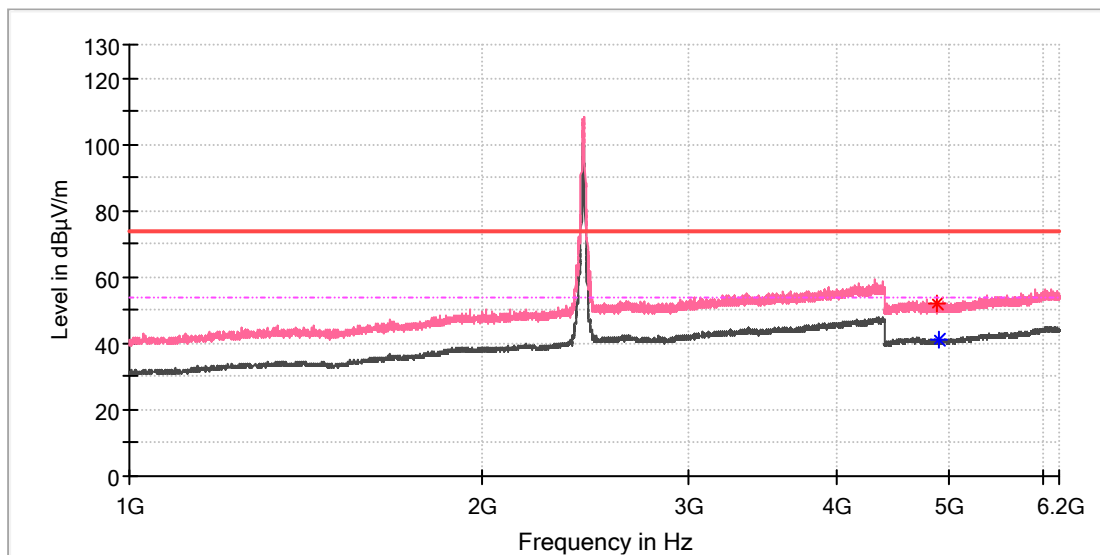
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4883.000000	52.05	---	74.00	21.95	150.0	H	38.0	13.3
4908.500000	---	41.01	54.00	12.99	150.0	H	61.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11g_Ch6
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

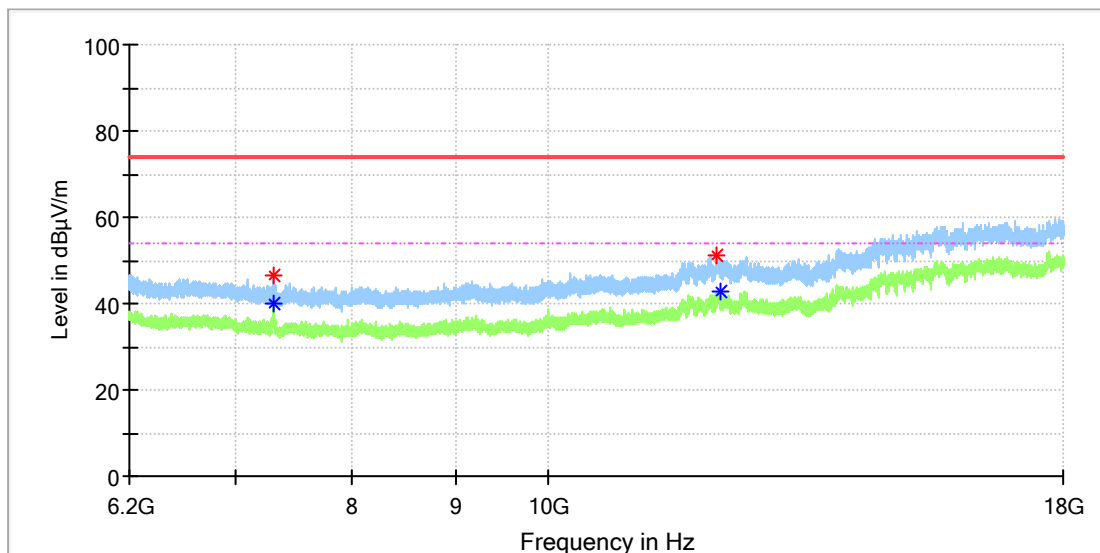
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	51.91	---	74.00	22.09	150.0	V	113.0	13.3
4903.500000	---	41.16	54.00	12.84	150.0	V	1.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11g_Ch6
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

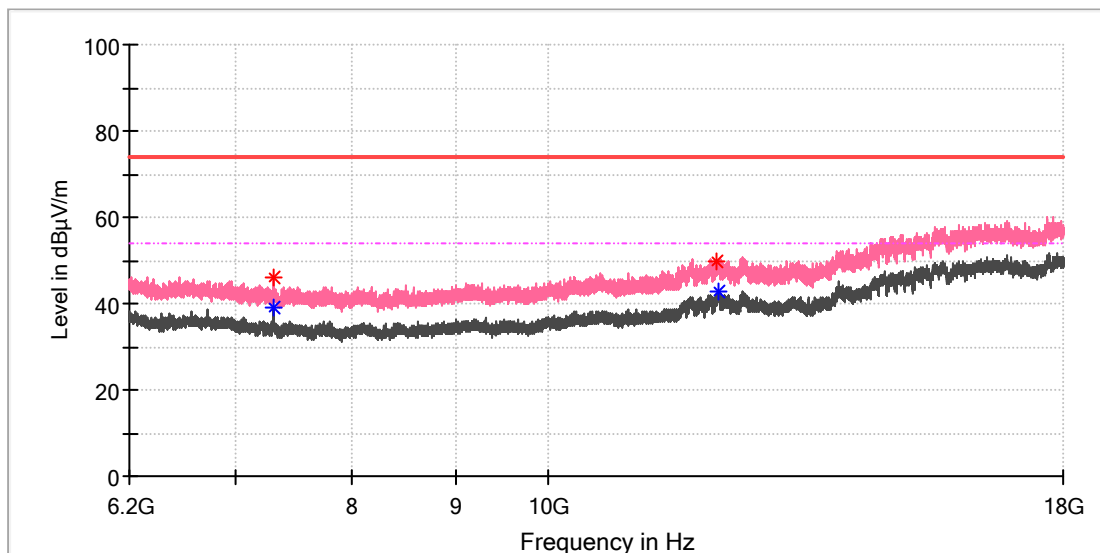
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7310.183333	46.37	---	74.00	27.63	150.0	H	17.0	8.2
7310.183333	---	40.07	54.00	13.93	150.0	H	17.0	8.2
12129.008333	51.06	---	74.00	22.94	150.0	H	170.0	16.2
12162.933333	---	42.83	54.00	11.17	150.0	H	295.0	16.1

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:	C20
Test Mode:	WIFI 2.4G_11g_Ch6
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)
7305.758333	46.24	---	74.00	27.76	150.0	V	103.0	8.3
7305.758333	---	39.07	54.00	14.93	150.0	V	103.0	8.3
12129.500000	49.99	---	74.00	24.01	150.0	V	118.0	16.2
12149.166667	---	42.70	54.00	11.30	150.0	V	71.0	16.7

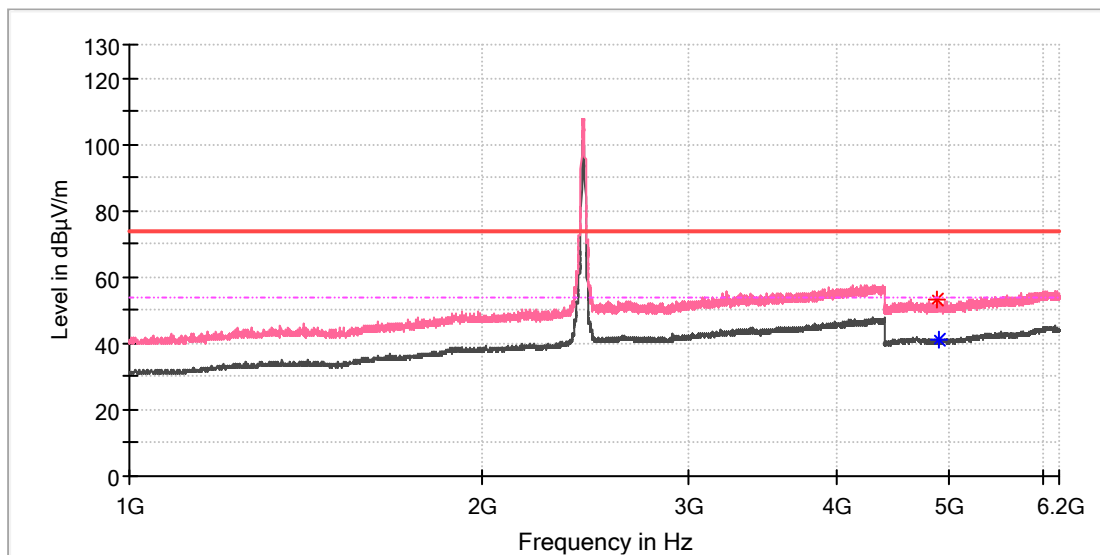
Final Result

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 Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11n20_Ch6
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

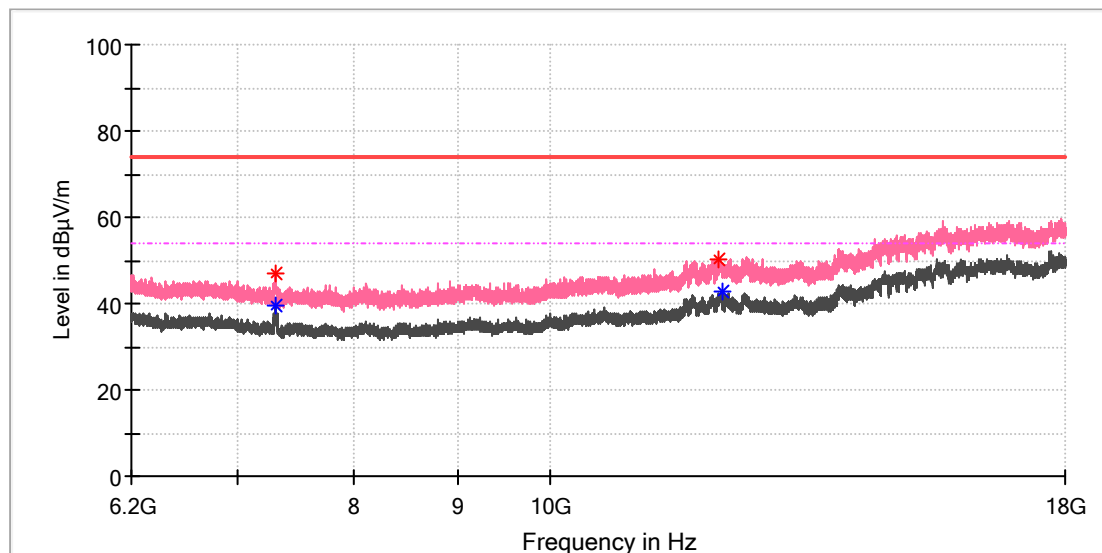
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.000000	53.05	---	74.00	20.95	150.0	V	4.0	13.3
4900.000000	---	40.96	54.00	13.04	150.0	V	34.0	13.3

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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EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11n20_Ch6
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)
7310.675000	46.91	---	74.00	27.09	150.0	V	108.0	8.2
7310.675000	---	39.31	54.00	14.69	150.0	V	108.0	8.2
12116.716667	50.28	---	74.00	23.72	150.0	V	74.0	15.9
12166.866667	---	42.72	54.00	11.28	150.0	V	184.0	15.9

Final Result

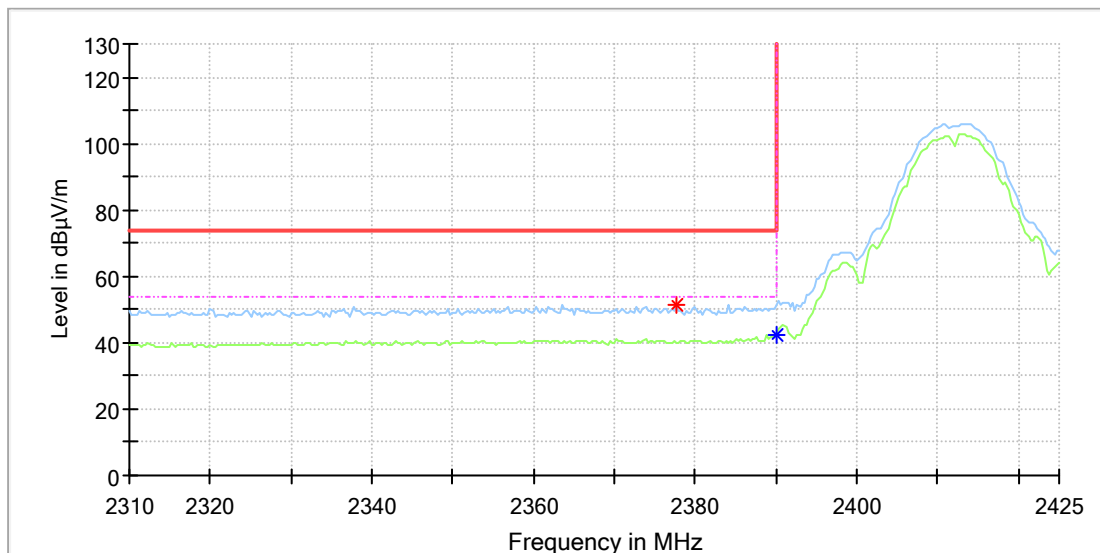
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch1
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

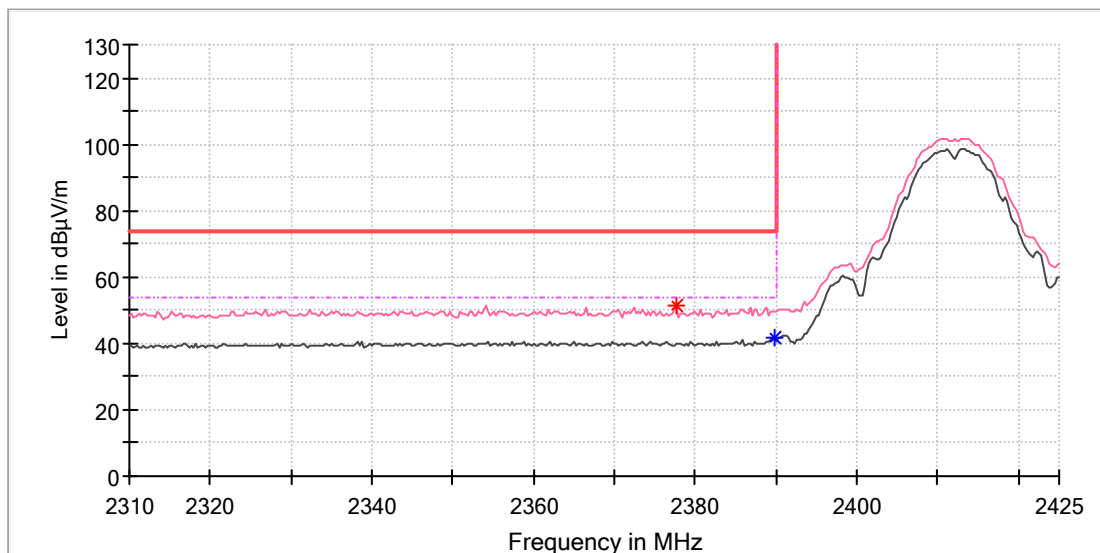
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.647059	51.69	---	74.00	22.31	150.0	H	258.0	8.5
2390.000000	---	42.46	54.00	11.54	150.0	H	25.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11b_Ch1
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

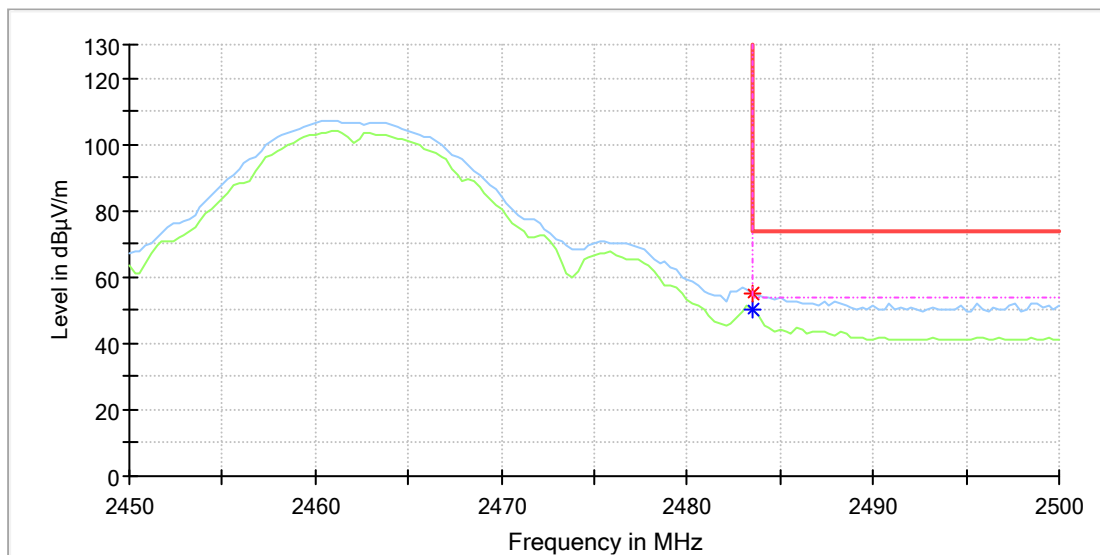
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.647059	51.12	---	74.00	22.88	150.0	V	135.0	8.5
2389.705882	---	41.49	54.00	12.51	150.0	V	8.0	8.5

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch11
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

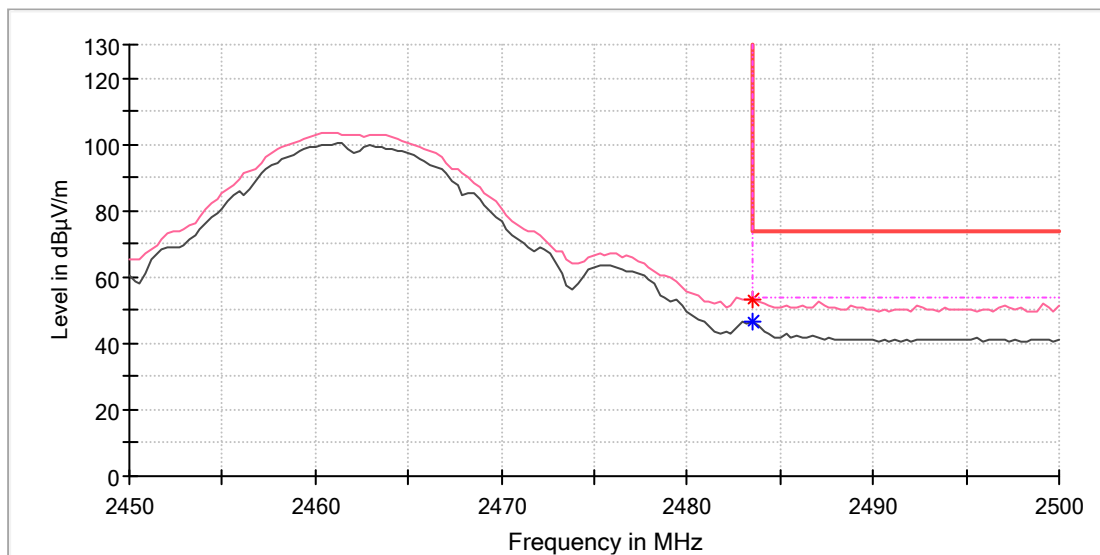
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	54.98	---	74.00	19.02	150.0	H	165.0	9.0
2483.529412	---	50.14	54.00	3.86	150.0	H	165.0	9.0

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:	C20
Test Mode:	WIFI 2.4G_11b_Ch11
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)
2483.529412	53.14	---	74.00	20.86	150.0	V	144.0	9.0
2483.529412	---	46.61	54.00	7.39	150.0	V	144.0	9.0

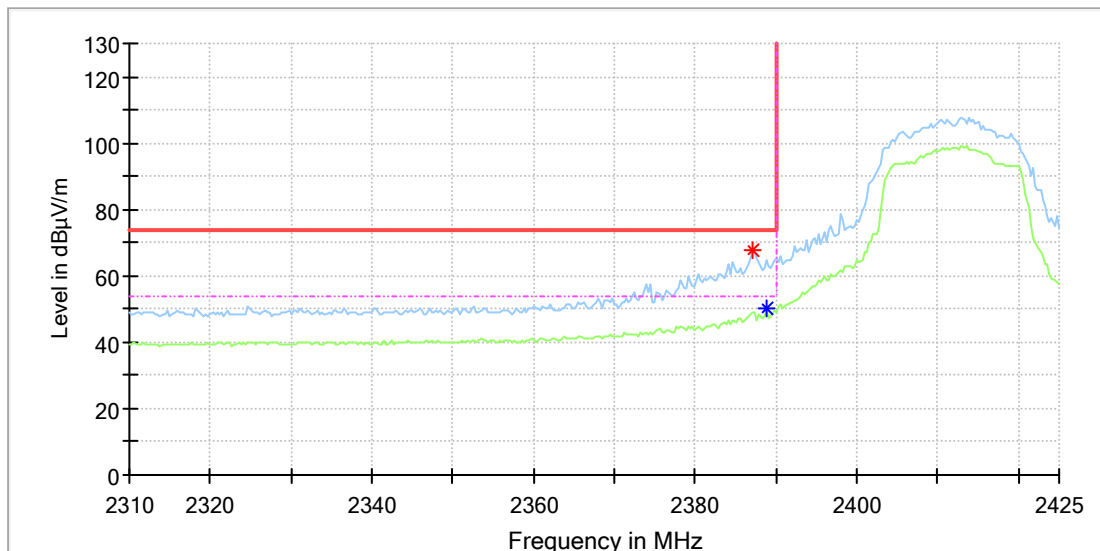
Final Result

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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Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Robotic Lawnmower/Tondeuse
Model:	C20
Test Mode:	WIFI 2.4G_11g_Ch1
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

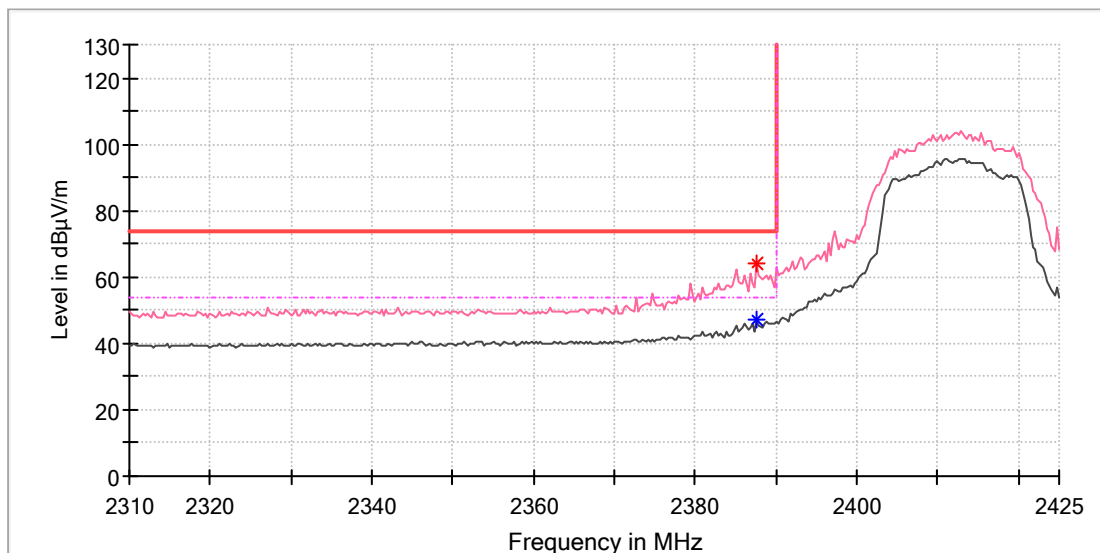
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	67.57	---	74.00	6.43	150.0	H	10.0	8.5
2388.823529	---	50.31	54.00	3.69	150.0	H	148.0	8.5

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:	C20
Test Mode:	WIFI 2.4G_11g_Ch1
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

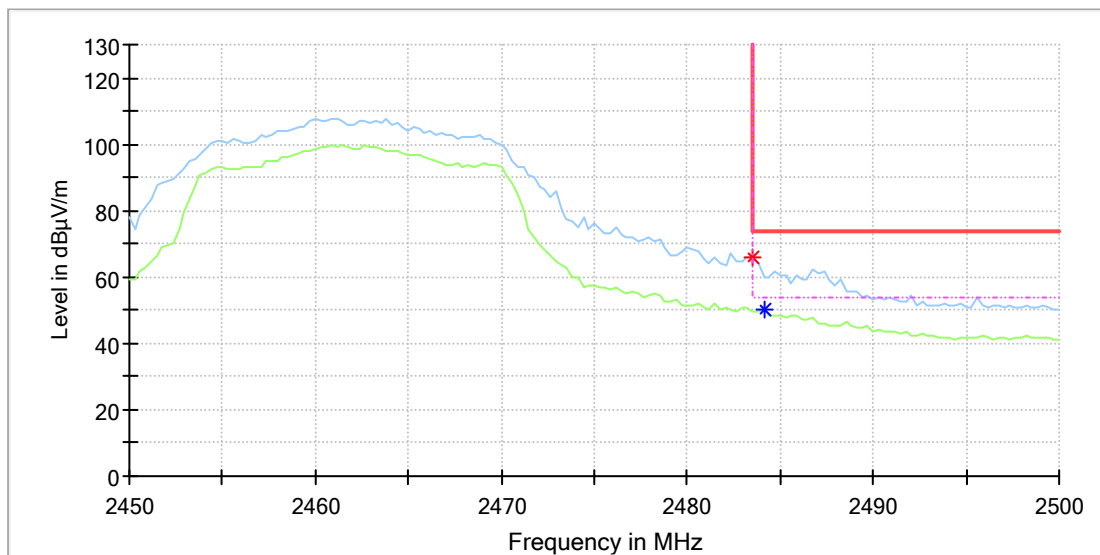
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.647059	64.23	---	74.00	9.77	150.0	V	136.0	8.5
2387.647059	---	47.04	54.00	6.96	150.0	V	136.0	8.5

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:	C20
Test Mode:	WIFI 2.4G_11g_Ch11
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

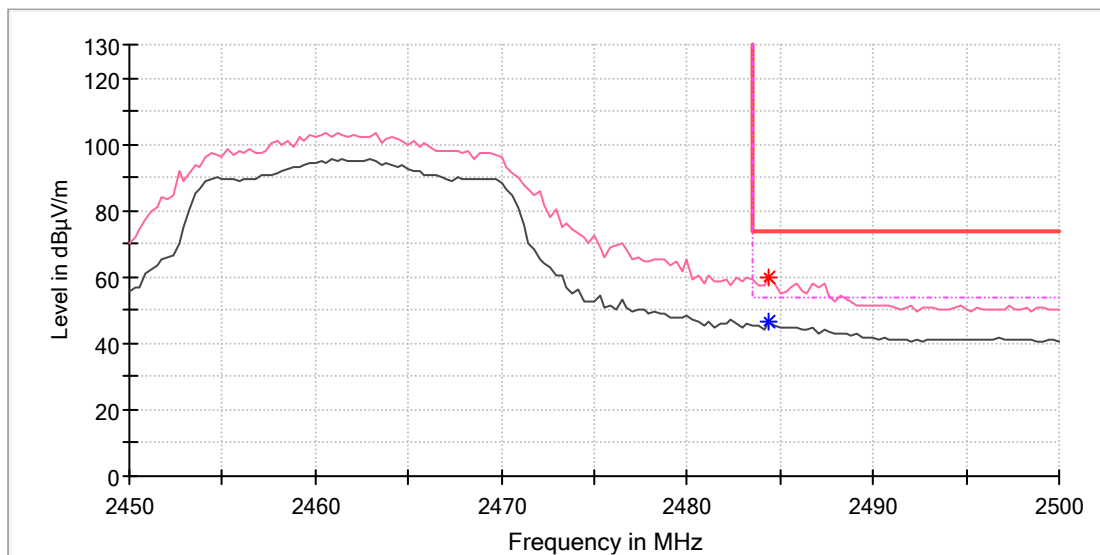
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	66.20	---	74.00	7.80	150.0	H	164.0	9.0
2484.117647	---	50.07	54.00	3.93	150.0	H	164.0	9.0

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:	C20
Test Mode:	WIFI 2.4G_11g_Ch11
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

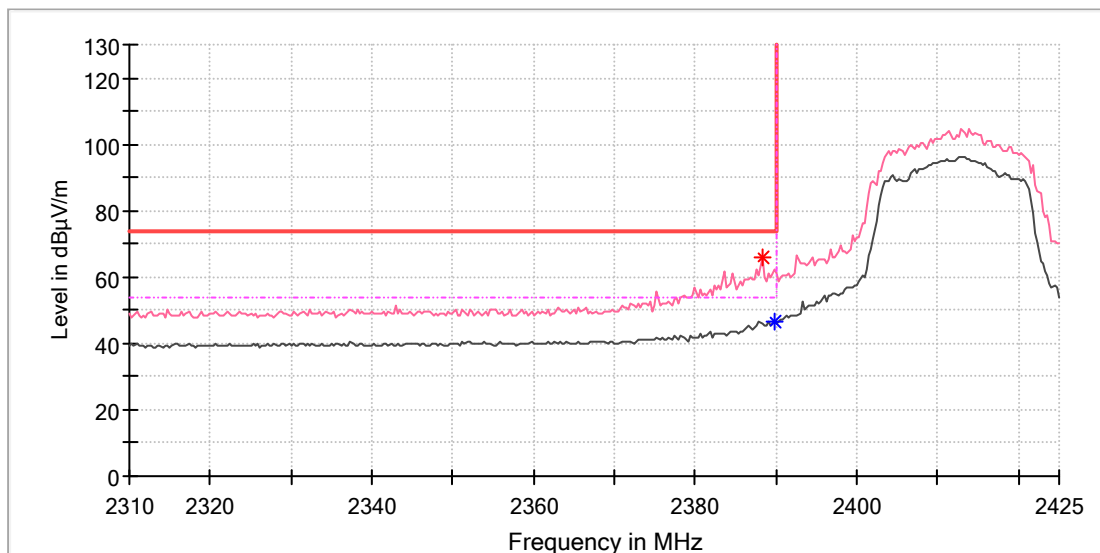
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.411765	59.96	---	74.00	14.04	150.0	V	139.0	9.0
2484.411765	---	46.67	54.00	7.33	150.0	V	139.0	9.0

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:	C20
Test Mode:	WIFI 2.4G_11n20_Ch1
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

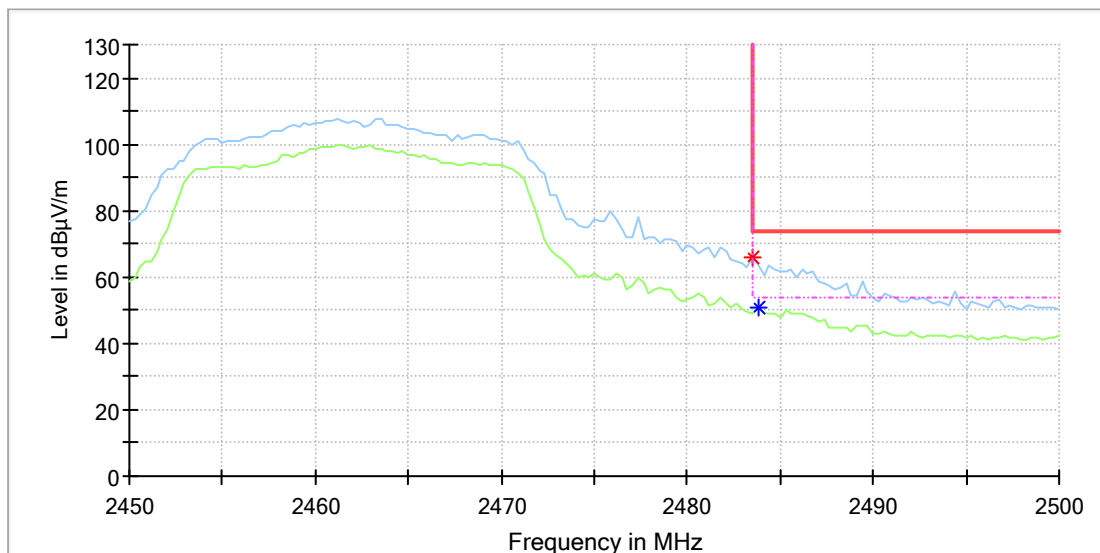
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.235294	65.74	---	74.00	8.26	150.0	V	152.0	8.5
2389.705882	---	46.75	54.00	7.25	150.0	V	130.0	8.5

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:	C20
Test Mode:	WIFI 2.4G_11n20_Ch11
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

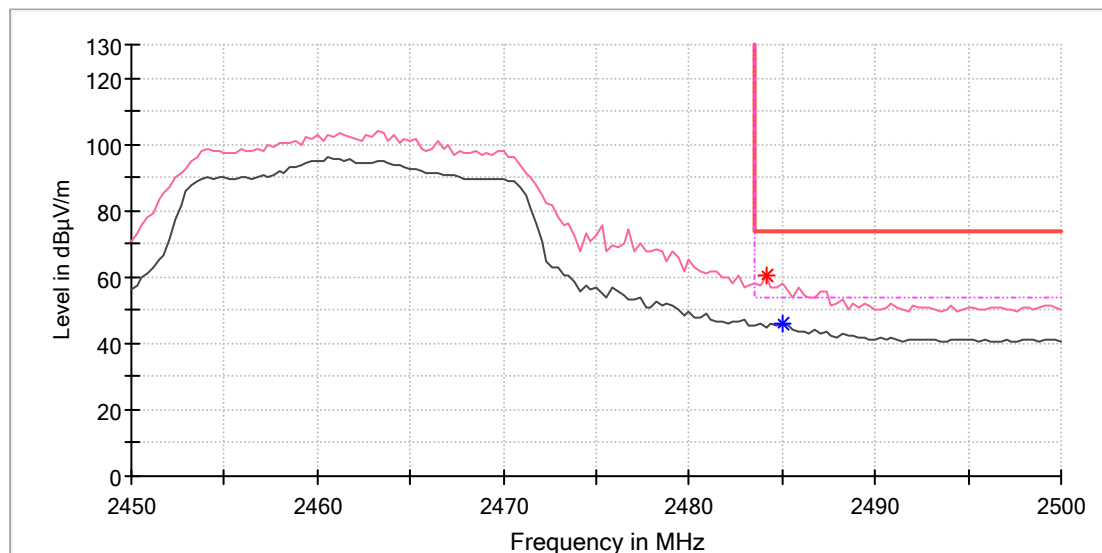
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	65.92	---	74.00	8.08	150.0	H	159.0	9.0
2483.823529	---	50.63	54.00	3.37	150.0	H	159.0	9.0

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:	C20
Test Mode:	WIFI 2.4G_11n20_Ch11
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)
2484.117647	60.27	---	74.00	13.73	150.0	V	124.0	9.0
2485.000000	---	46.01	54.00	7.99	150.0	V	139.0	9.0

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 C: Photographs of the Test Set-Up

APPENDIX C: 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

