



		FCC TEST REPORT	
		For	
Wo	an	Technology (Shenzhen) Co., Ltd.	
Switch	Bo	t Robot Vacuum Dual Empty Stat	tion
		Test Model: W3000320	
Additio	ona	Model No.: Please Refer to Pag	e 6
Prepared for	:	Woan Technology (Shenzhen) Co., Ltd.	
Address	:	Room 1101, Qiancheng Commercial Cent Mabu Community, Xixiang Sub-district, Ba Guangdong, P.R.China, 518100	-
		and the fit	
Prepared by	1	Shenzhen LCS Compliance Testing Labor	atory Ltd.
Address	1.0	101, 201 Bldg A & 301 Bldg C, Juji Industr Shajing Street, Baoan District, Shenzhen,	
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Web	:	www.LCS-cert.com	
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Date of receipt of test sample	:	August 15, 2024	
Number of tested samples	:	2	
Sample No.	:	A240708092-1, A240708092-2	
Serial number	:	Prototype	
Date of Test	:	August 15, 2024 ~ August 27, 2024	
Date of Report	:	August 28, 2024	





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Test.	C CFR 47 PART 15 C(15.247)	ab I I IIII
Report Reference No::		
Date of Issue:	August 28, 2024	
Testing Laboratory Name :	Shenzhen LCS Compliance Testing	Laboratory Ltd.
Address :	101, 201 Bldg A & 301 Bldg C, Juji Ind Shajing Street, Baoan District, Shenzh	
Testing Location Procedure :	Full application of Harmonised standar Partial application of Harmonised stand Other standard testing method □	
Applicant's Name:	Woan Technology (Shenzhen) Co., L	.td.
Address		-
Test Specification		
Standard:	FCC CFR 47 PART 15 C(15.247)	
Test Report Form No :	TRF-4-E-145 A/0	
TRF Originator Shenzhen LCS Compliance Testing Laboratory Ltd.		
Master TRF:	Dated 2011-03	
	ance Testing Laboratory Ltd. takes no read from the reader's interpretation of the reader.	
EUT Description:	SwitchBot Robot Vacuum Dual Emp	ty Station
Trade Mark:	SwitchBot	
Test Model:	W3000320	
Ratings:	Rated Power (Charging): 50W	
	Rated Power (Emptying Dust): 650W	
	Rated Output:24V===2A for SwithBot F	
	24V===0.86A for SwitchBot Cordless V	
	Class 2 Not Wet. 24V Rated Input:120	V~ 50/60Hz
Result:	Positive	
Compiled by:	Supervised by:	Approved by:
	(any Luco	Jains Frang
Diamond In	0	
Diamond Lu/Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager
Hit	0	Gavin Liang/ Manager



FCC -- TEST REPORT

	FCC TEST REPORT		
Test Report No. :	LCSA07264108EA	August 28, 2024 Date of issue	
Test Model	: W3000320		
EUT	: SwitchBot Robot Vacuum	Dual Empty Station	
Applicant	: Woan Technology (Shen	zhen) Co., Ltd.	
Address	: Room 1101, Qiancheng C	ommercial Center, No. 5 Haicheng Road Sub-district, Bao'an District, Shenzhen,	
Telephone	• •		
Fax			
Manufacturer	: Woan Technology (Shen	zhen) Co., Ltd.	
Address	: Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road,		
	Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100		
Telephone			
Fax	: /		
	:		
Factory	: Wo'an Technology (Shei	nzhen) Co., Ltd. Huizhou Branch	
Address	Innovation Park, No.263 C	li Zhigu Science and Technology hang'an Avenue, Shatian Town, Huiyang	
	District, Huizhou City, Gua	ngdong, China	
Telephone	: / · /	ingdong, China	
Fax	:/		

Test Result	Positive
The test report morely corresponde to the test car	mplo

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

		+ 讯检 jup Lab	
Report Version	Issue Date	Revision Content	Revised By
000	August 28, 2024	Initial Issue	









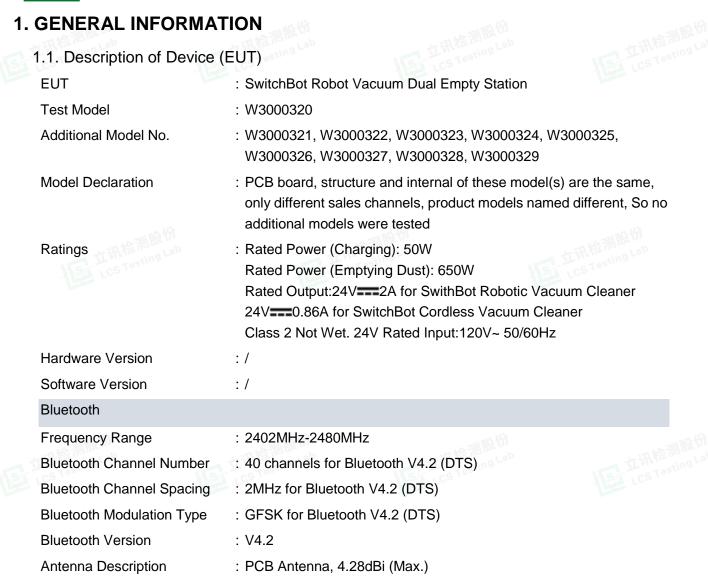
	TABLE OF CONTENTS	
1. GENERAL INFORMATION	L Testing L.	
 1.1. DESCRIPTION OF DEVICE (EU 1.2. HOST SYSTEM CONFIGURATION 1.3. EXTERNAL IO CABLE	T) IN LIST AND DETAILS ITY IMENT UNCERTAINTY S	6 7 7 7 7 7 7 8
2. TEST METHODOLOGY		9
	- 10	
	and the second	
3. SYSTEM TEST CONFIGURATION	ON	
	CS	
	-	
	5	
	Measurement Output Power Measurement	
	leasurement	
	REMENT	
	AND CONDUCTED SPURIOUS EMISSIONS TEST	
5.7. AC POWER LINE CONDUCTED	EMISSIONS	
5.8. ANTENNA REQUIREMENTS		
6. LIST OF MEASURING EQUIPM	IENTS	
7. TEST SETUP PHOTOGRAPHS	OF EUT	
8. EXTERIOR PHOTOGRAPHS O	F THE EUT	
9. INTERIOR PHOTOGRAPHS OF	- THE EUT	







FCC ID: 2AKXB-W3000320











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1.2. Host System Configuration List and Details

S	Manufacturer	Description	Model	Serial Number	Certificate
The	-				

1.3. External IO Cable

IO Port Description	Quantity	Cable	

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISOIEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.



1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
estin list	(CS	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz-40GHz	±0.57dB	(1)
Power Spectral Density	:	1GHz-40GHz	±1.2dB	(1)
Occupied Channel Bandwidth	:	1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	:	9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	:	1GHz-40GHz	±2.47dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

AC conducted emission pre-test at AC 120V/60Hz, recorded case at AC120V/60Hz.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be BT LE mode (Middle Channel).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be BT LE mode (Middle Channel).

Data rates used during the testing are as follows: BT LE: 1 Mbps, GFSK.

--	
ВΙ	LE

LL				
Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
	0	2402	20	2442
	1	2404		
2402~2480MHz	2	2406		
2402~2400IVINZ			37	2476
			38	2478
	19	2440	39	2480



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2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 15.247 Meas Guidance v05r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is directly placed on the ground. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A240708092-1)	Engineer sample – continuous transmit
Sample 2(A240708092-2)	Normal sample – Intermittent transmit





3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (RTL8762x_RFTestTool) provided by application.

3.3. Special Accessories

NA.

3.4. Block Diagram & Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.







4. SUMMARY OF TEST RESULTS

	Applied Standard: FCC Part	t 15 Subpart (C	
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.247(a)(2)	6dB Bandwidth	Sample 1	Compliant	Appendix A.1
§15.247(b)	Maximum Peak Conducted Output Power	Sample 1	Compliant	Appendix A.2
§15.247(e)	Power Spectral Density	Sample 1 Compliant		Appendix A.3
§15.247(d)	Band edge measurements and Conducted Spurious Emissions	Sample 1	Compliant	Appendix A.4 Appendix A.5
/ On Time and Duty Cycle		Sample 1	121	Only reported; Appendix A.6
15.209, §15.247(d)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1
§15.205	Emissions at Restricted Band	Sample 1	Compliant	Note 1
§15.207(a)	Conducted Emissions	Sample 2	Compliant	Note 1
§15.203	Antenna Requirements	Sample 1	Compliant	Note 1
315.247(i)§1.1310 315.247(i)§2.1091	RF Exposure	NA	Compliant	Note 2

Remark:

Note 1 – Test results inside test report;
 Note 2 – Test results in other test report (RF Exposure Evaluation);







NON-



5. TEST RESULT

5.1. 6 dB Spectrum Bandwidth Measurement

5.1.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting	
Attenuation	Auto	
RBW	100KHz	
VBW	≥3*RBW	
Span Frequency	> RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	1ms	

5.1.3. Test Procedures

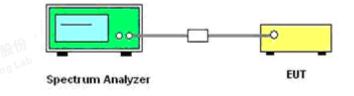
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.

2. Set RBWVBW = 100 KHz 300KHz (for 6dB bandwidth measurement)

Set RBW = 1%~5% OBW; VBW≥3*RBW (for occupied bandwidth measurement).

3. Measured the 6dB bandwidth and 99% occupied bandwidth by related function of the spectrum analyzer.

5.1.4. Test Setup Layout





5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test Result of 6dB Spectrum Bandwidth

PASS

Please refer to Appendix A.1

Remark: Test results including cable loss.





5.2. Maximum Peak Conducted Output Power Measurement

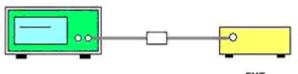
5.2.1. Standard Applicable

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

5.2.2. Test Procedures

The transmitter output (antenna port) was connected to the spectrum analyzer. According to KDB558074 D01 15.247 Meas Guidance v05r02 Section 9.1 Maximum peak conducted output power 9.1.1. This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth. a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 × RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.

5.2.3. Test Setup Layout



Spectrum Analyzer

EUT

5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result of Maximum Peak Conducted Output Power

PASS

Please refer to Appendix A.2

Remark: 1)Test results including cable loss.





5.3. Power Spectral Density Measurement

5.3.1. Standard Applicable

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

5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

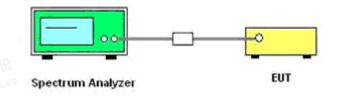
5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.

- 3. Set the RBW = 3 kHz.
- 4. Set the VBW \geq 3*RBW
- 5. Set the span to 1.5 times the DTS channel bandwidth.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum power level.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 12. The resulting peak PSD level shall not be greater than 8 dBm in any 3KHz band.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Power Spectral Density

PASS

Please refer to Appendix A.3

Remark: Test results including cable loss.



5.4. Radiated Emissions Measurement

5.4.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
 0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
 13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

5.4.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10 th carrier harmonic				
RB VB (Emission in restricted band)	1MHz 1MHz for Peak, 1 MHz 1B kHz for Average				
RB VB (Emission in non-restricted band)	1MHz 1MHz for Peak, 1 MHz 1B kHz for Average				



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz RBVB 200Hz1KHz for QPAVG
Start ~ Stop Frequency	150kHz~30MHz RBVB 9kHz30KHz for QPAVG
Start ~ Stop Frequency	30MHz~1000MHz RBVB 120kHz1MHz for QP

5.4.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

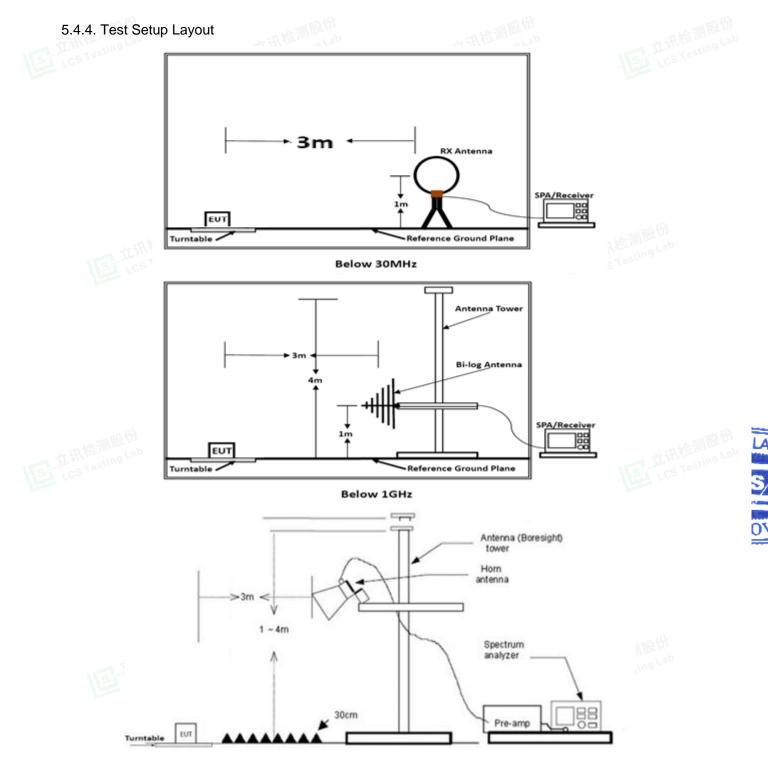
--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit resting will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.









Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dBdecade form 3m to 1m.



5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where	FS = Field Strength		CL = Cable Attenuation Factor (Cable Loss)
Jan 1	RA = Reading Amplitude	I I WILL	AG = Amplifier Gain
- CER	AF = Antenna Factor		

5.4.7. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	23.8 ℃	Humidity	52.1%
Test Engineer	Can Kun	Configurations	BT LE

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
命测股份	THE THE		日始测股份	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

5.4.8. Results of Radiated Emissions (30MHz~1GHz)

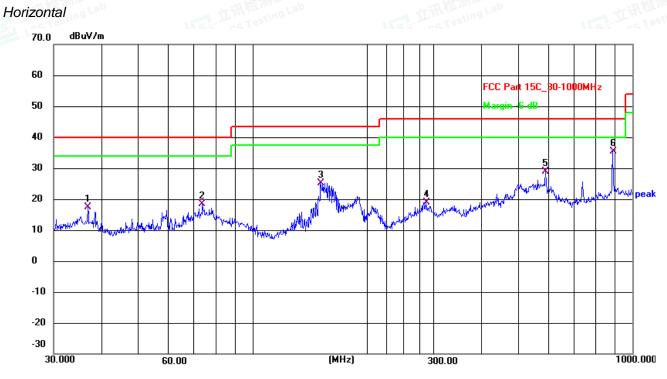
Temperature	23.8 ℃	Humidity	52.1%
Test Engineer	Can Kun	Configurations	BT LE
Les stest	Ver	as Testing	NS5 STest





上示 Testing Lab

Test result for BT LE mode (Middle Channel)

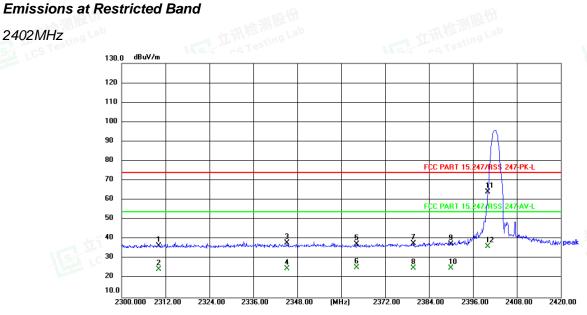


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	36.8953	35.07	-17.69	17.38	40.00	-22.62	QP
2	73.8756	37.91	-19.63	18.28	40.00	-21.72	QP
3	151.0666	45.06	-19.81	25.25	43.50	-18.25	QP
4	285.9778	34.29	-15.47	18.82	46.00	-27.18	QP
5	590.9737	39.42	-10.58	28.84	46.00	-17.16	QP
6	887.6099	43.99	-8.49	35.50	46.00	-10.50	QP



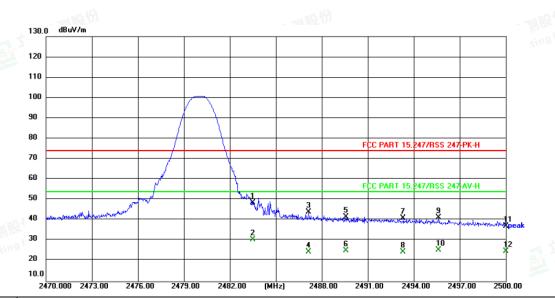


Emissions at Restricted Band



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.000	46.94	-10.42	36.52	74.00	-37.48	peak
2	2310.000	34.92	-10.42	24.50	54.00	-29.50	AVG
3	2345.120	48.56	-10.58	37.98	74.00	-36.02	peak
4	2345.120	35.38	-10.58	24.80	54.00	-29.20	AVG
5	2364.200	48.11	-10.70	37.41	74.00	-36.59	peak
6	2364.200	36.00	-10.70	25.30	54.00	-28.70	AVG
7	2379.680	48.68	-10.82	37.86	74.00	-36.14	peak
8	2379.680	35.92	-10.82	25.10	54.00	-28.90	AVG
9	2390.000	48.34	-10.89	37.45	74.00	-36.55	peak
10	2390.000	35.99	-10.89	25.10	54.00	-28.90	AVG
11	2400.000	75.04	-10.96	64.08	74.00	-9.92	peak
12	2400.000	47.16	-10.96	36.20	54.00	-17.80	AVG

2480MHz





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	No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Li和检测路份 LCS Testing Lab
	1	2483.500	59.58	-10.96	48.62	74.00	-25.38	peak	LCSTEST
	2	2483.500	41.46	-10.96	30.50	54.00	-23.50	AVG	-
	3	2487.130	55.03	-11.01	44.02	74.00	-29.98	peak	-
	4	2487.130	35.71	-11.01	24.70	54.00	-29.30	AVG	
	5	2489.560	52.58	-11.03	41.55	74.00	-32.45	peak	
	6	2489.560	36.13	-11.03	25.10	54.00	-28.90	AVG	-
	7	2493.310	52.19	-11.07	41.12	74.00	-32.88	peak	-
	8	2493.310	35.67	-11.07	24.60	54.00	-29.40	AVG	13
2	9	2495.620	52.38	-11.10	41.28	74.00	-32.72	peak	Lab
	10	2495.620	36.50	-11.10	25.40	54.00	-28.60	AVG	-
	11	2500.000	48.39	-11.14	37.25	74.00	-36.75	peak	
	12	2500.000	36.04	-11.14	24.90	54.00	-29.10	AVG	

在新检测股份 LCS Testing Lab









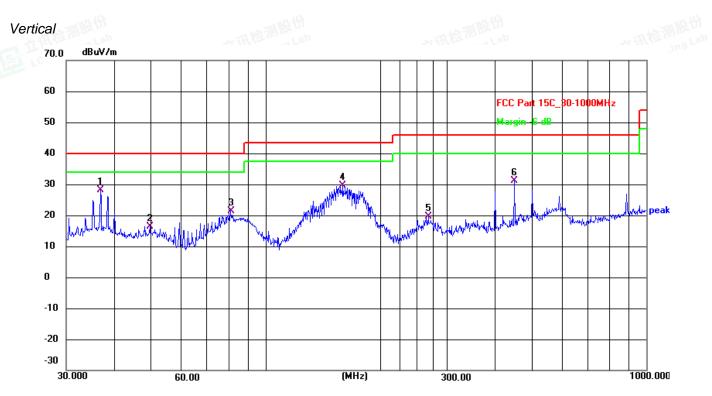












No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	36.8953	45.72	-17.69	28.03	40.00	-11.97	QP	
2	49.7068	33.47	-17.03	16.44	40.00	-23.56	QP	
3	80.9275	41.11	-19.79	21.32	40.00	-18.68	QP	
4	159.7844	49.30	-19.68	29.62	43.50	-13.88	QP	
5	267.5455	34.95	-15.43	19.52	46.00	-26.48	QP	
6	451.1350	45.65	-14.45	31.20	46.00	-14.80	QP	





Emissions at Restricted Band

6

7

8

9

10

11

12

2351.840

2366.840

2366.840

2390.000

2390.000

2400.000

2400.000

36.57

49.41

36.21

49.30

36.53

73.34

47.30

-11.87

-11.81

-11.81

-11.73

-11.73

-11.70

-11.70

24.70

37.60

24.40

37.57

24.80

61.64

35.60

54.00

74.00

54.00

74.00

54.00

74.00

54.00

-29.30

-36.40

-29.60

-36.43

-29.20

-12.36

-18.40

AVG

peak

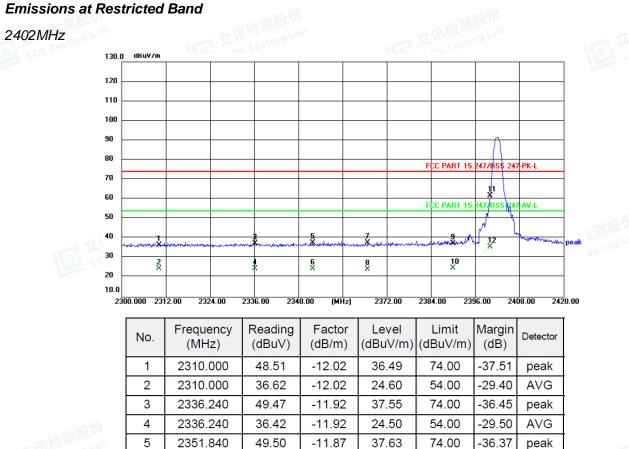
AVG

peak

AVG

peak

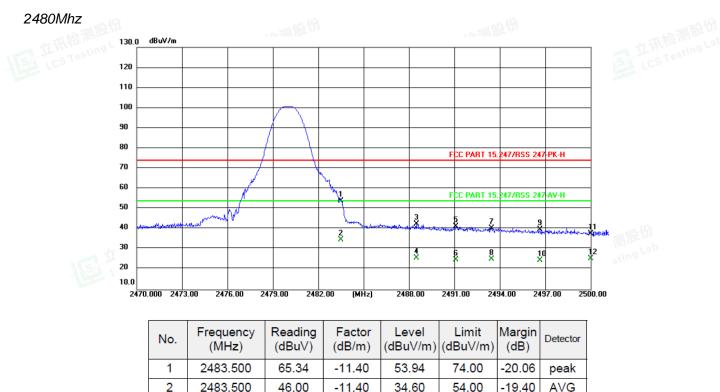
AVG











-11.39

-11.39

-11.37

-11.37

-11.37

-11.37

-11.36

-11.36

-11.34

-11.34

42.42

25.70

41.24

24.90

40.59

25.10

39.70

24.50

37.70

25.30

74.00

54.00

74.00

54.00

74.00

54.00

74.00

54.00

74.00

54.00

-31.58

-28.30

-32.76

-29.10

-33.41

-28.90

-34.30

-29.50

-36.30

-28.70

peak

AVG

peak

AVG

peak

AVG

peak

AVG

peak

AVG

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report BT LE mode (Middle Channel).
- 2). Emission level (dBuVm) = 20 log Emission level (uVm).

Scan code to check authenticity

3

4

5

6

7

8

9

10

11

12

2488.480

2488.480

2491.090

2491.090

2493.460

2493.460

2496.670

2496.670

2500.000

2500.000

53.81

37.09

52.61

36.27

51.96

36.47

51.06

35.86

49.04

36.64

3). Level = Reading + Factor, Margin = Level – Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



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5.4.9. Results for Radiated Emissions (1 GHz – 26.5 GHz)

BTLE

Channel 0 2402 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
4804.00	54.91	33.06	35.04	3.94	56.87	74.00	-17.13	Peak	Horizontal
4804.00	43.98	33.06	35.04	3.94	45.94	54.00	-8.06	Average	Horizontal
4804.00	57.46	33.06	35.04	3.94	59.42	74.00	-14.58	Peak	Vertical
4804.00	42.75	33.06	35.04	3.94	44.71	54.00	-9.29	Average	Vertical
Channe	2/10 2440	N/Hz			立语检测版 ing Lal	0	E	1 立语检测	ing Lab

Channel 19 2440 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
4880.00	56.85	33.16	35.15	3.96	58.82	74.00	-15.18	Peak	Horizontal
4880.00	43.63	33.16	35.15	3.96	45.60	54.00	-8.40	Average	Horizontal
4880.00	59.58	33.16	35.15	3.96	61.55	74.00	-12.45	Peak	Vertical
4880.00	45.75	33.16	35.15	3.96	47.72	54.00	-6.28	Average	Vertical

Channe	el 39 2480 i	MHz							
Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
4960.00	60.31	33.26	35.14	3.98	62.41	74.00	-11.59	Peak	Horizontal
4960.00	43.78	33.26	35.14	3.98	45.88	54.00	-8.12	Average	Horizontal
4960.00	52.26	33.26	35.14	3.98	54.36	74.00	-19.64	Peak	Vertical
4960.00	44.54	33.26	35.14	3.98	46.64	54.00	-7.36	Average	Vertical

Notes:

1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), at least have 20dB margin found between lowest internal used generated frequency to 30MHz.

2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.

3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

4). Measured Level = Reading Level + Factor, Margin = Measured Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



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5.5. Band edge Measurements and Conducted Spurious Emissions Test

5.5.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipment list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB VB (Emission in restricted band)	100KHz300KHz
RB VB (Emission in non-restricted band)	100KHz300KHz

5.5.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 30 MHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.05.1. Test Setup Layout

This test setup layout is the same as that shown in section 5.1.4.

5.05.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Test Results of Conducted Spurious Emissions

PASS

Please refer to Appendix A.4 for band edge measurements;

Please refer to Appendix A.5 for conducted spurious emission.

Remark:

1). Test results including cable loss;

2). "---"means that the fundamental frequency not for 15.209 limits requirement.

3). Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.



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100

5.6. On Time and Duty Cycle

5.6.1. Standard Applicable

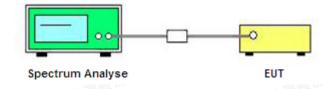
None: for reporting purpose only.

5.6.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.6.3. Test Procedures

- 1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
- 2. Set the span=0MHz, RBW=8MHz, VBW=8.0MHz, Sweep time=5ms;
- 3. Detector = peak;
- 4. Trace mode = Single hold.
- 5.6.4. Test Setup Layout



5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.6. Test result

For reporting purpose only.

Please refer to Appendix A.6



5.7. AC Power line conducted emissions

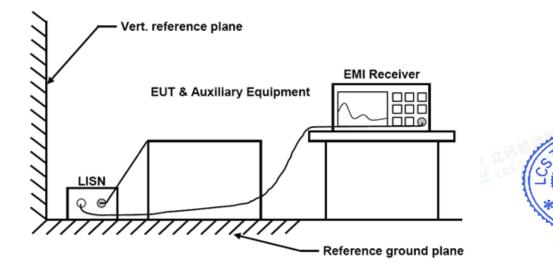
5.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)			
(MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

* Decreasing linearly with the logarithm of the frequency

5.7.2 Block Diagram of Test Setup





The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBu∖	') = RA (dBuV)	+ PL ((dB)) + CL ((dB)	
----------	-----------	-------	--------	------	----------	------	--

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)
Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

5.7.4 Test Results

Temperature	22.5 ℃	Humidity	53.7%		
Test Engineer	Can Kun	Configurations	BT LE		

PASS.

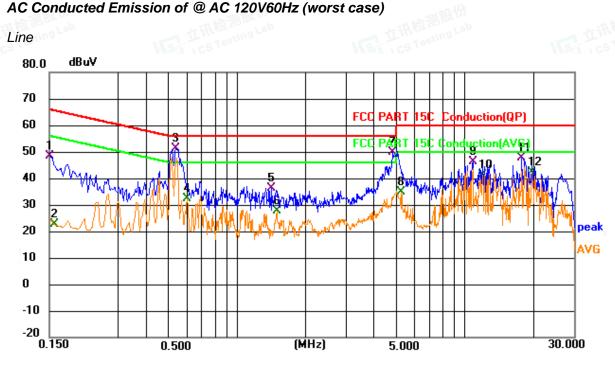
The test data please refer to following page.



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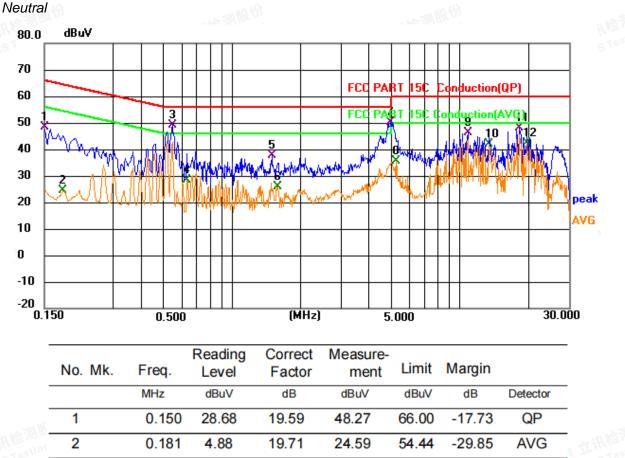
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AC Conducted Emission of @ AC 120V60Hz (worst case)



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
_	1		0.150	28.61	19.89	48.50	66.00	-17.50	QP
_	2		0.158	2.72	19.85	22.57	55.57	-33.00	AVG
_	3	*	0.537	31.68	19.73	51.41	56.00	-4.59	QP
_	4		0.600	12.80	19.53	32.33	46.00	-13.67	AVG
_	5		1.423	17.08	19.06	36.14	56.00	-19.86	QP
_	6		1.496	8.71	19.05	27.76	46.00	-18.24	AVG
_	7		4.843	30.69	18.98	49.67	56.00	-6.33	QP
_	8		5.235	16.04	18.93	34.97	50.00	-15.03	AVG
_	9		10.793	26.57	19.51	46.08	60.00	-13.92	QP
_	10		11.895	21.55	19.64	41.19	50.00	-8.81	AVG
_	11		17.695	28.06	19.48	47.54	60.00	-12.46	QP
	12		19.712	23.07	19.12	42.19	50.00	-7.81	AVG
_									





B
-
12

	NO. MI	K.	req.	Level	Factor	ment	Linnit	wargin		
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	_
- m BE	1		0.150	28.68	19.59	48.27	66.00	-17.73	QP	_
stin!	2		0.181	4.88	19.71	24.59	54.44	-29.85	AVG	L I
-	3		0.546	29.66	19.41	49.07	56.00	-6.93	QP	
-	4		0.636	8.88	19.48	28.36	46.00	-17.64	AVG	_
-	5		1.496	18.77	18.97	37.74	56.00	-18.26	QP	_
-	6		1.585	6.89	19.00	25.89	46.00	-20.11	AVG	_
-	7 *		4.970	31.24	18.83	50.07	56.00	-5.93	QP	
-	8		5.235	16.52	18.87	35.39	50.00	-14.61	AVG	
-	9		10.793	26.60	19.56	46.16	60.00	-13.84	QP	
-	10		13.421	22.22	19.68	41.90	50.00	-8.10	AVG	- Réi
ST.	11		18.244	28.83	19.29	48.12	60.00	-11.88	QP	
-	12		19.712	23.09	19.09	42.18	50.00	-7.82	AVG	
-										

***Note: 1).Pre-scan all modes and recorded the worst case results in this report BT LE mode (Middle Channel).

2). Measurement = Reading + Correct, Margin = Measurement – Limit.;

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.



5.8. Antenna Requirements

5.8.1 Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(b)(4), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.8.2 Antenna Connected Construction

5.8.2.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.8.2.2. Antenna Connector Construction

Scan code to check authenticity

The gains of antenna used for transmitting is 4.28dBi(Max.), and the antenna is an PCB Antenna and no consideration of replacement. Please see EUT photo for details.

5.8.2.3. Results: Compliance.







6. LIST OF MEASURING EQUIPMENTS

tem	Equipment	Manufacturer Model N		Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2024-06-06	2025-06-05
2	Power Sensor	R&S	NRV-Z81	100458	2024-06-06	2025-06-05
3	Power Sensor	R&S	NRV-Z32	10057	2024-06-06	2025-06-05
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2024-06-06	2025-06-05
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2023-10-18	2024-10-17
7	DC Power Supply	Agilent	E3642A	N/A	2023-10-18	2024-10-17
8	EMI Test Software	AUDIX	E3 /		N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-06	2025-06-05
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2021-08-29	2024-08-28
16	EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
18	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-18	2024-10-17
19	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-18	2024-10-17
20	6dB Attenuator	LCSIES	100W/6dB	1172040	2024-06-06	2025-06-05
21	3dB Attenuator	/	2N-3dB	/	2023-10-18	2024-10-17
22	EMI Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
23	Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
24	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0 032	2024-06-06	2025-06-05
25	EMI Test Software	Farad	EZ	/	N/A	N/A
26	Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A
27	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05



1071 *



7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

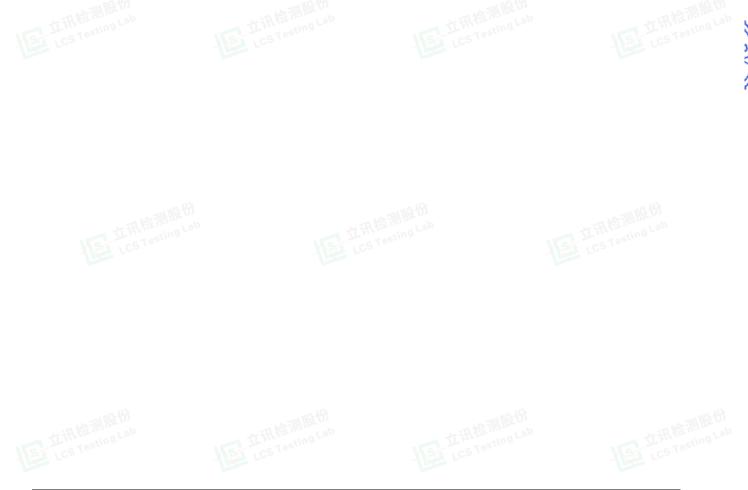
8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.







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