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	FCC CFR 47 PART 15 C (15.249)	
Report Reference No	:: LCSA050923033EA	LCS TO
Date of Issue	:May 25, 2023	
Testing Laboratory Name	: Shenzhen LCS Compliance Testi	ng Laboratory Ltd
Address		Industrial Park Yabianxueziwei, nzhen, 518000, China
	Full application of Harmonised stan	dards ∎
Testing Location/ Procedure	Partial application of Harmonised st	andards 🗆
	Other standard testing method \square	
Applicant's Name	: Edco Electronics Inc.	LCS Testing
Address	: 8484 Avenue de l'Esplanade Montro	eal, Quebec H2P 2R7 Canada
Test Specification		
Standard	: FCC CFR 47 PART 15 C(15.249) / .	ANSI C63.10: 2013
Test Report Form No	: LCSEMC-1.0	
TRF Originator	: Shenzhen LCS Compliance Testing	Laboratory Ltd.
Master TRF.	: Dated 2011-03	milli .
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Test Item Description	:Wireless Keyboard	
Trade Mark	: Borne	
Test Model	: KBMS250K	
Ratings	: DC 3V by 2*AAA Batteries	
Result		
Compiled by:	Supervised by:	Approved by:
Kory Auong	(any Luo	Jains Piang
Rory Huang/ Administrator	Cary Luo/ Technique principal	Gavin Liang/ Manager



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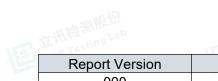
FCC -- TEST REPORT

	FCC TEST REPORT	
Test Report No. :	LCSA050923033EA	May 25, 2023 Date of issue
Test Model	: KBMS250K	
EUT	: Wireless Keyboard	立讯检测版拼
Applicant	: Edco Electronics Inc.	Per res
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A ST MICH		14 - 15 - 16 - 16 - 16 - 16 - 16 - 16 - 16
WSL I H Mering Lab	USE CS Testing Lab	15 TIR TE MAN Lab
Test Result	The second	Positive

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

Revisio	on History	
Issue Date	Revision Content	Revised By
May 25, 2023	Initial Issue	
	Issue Date	







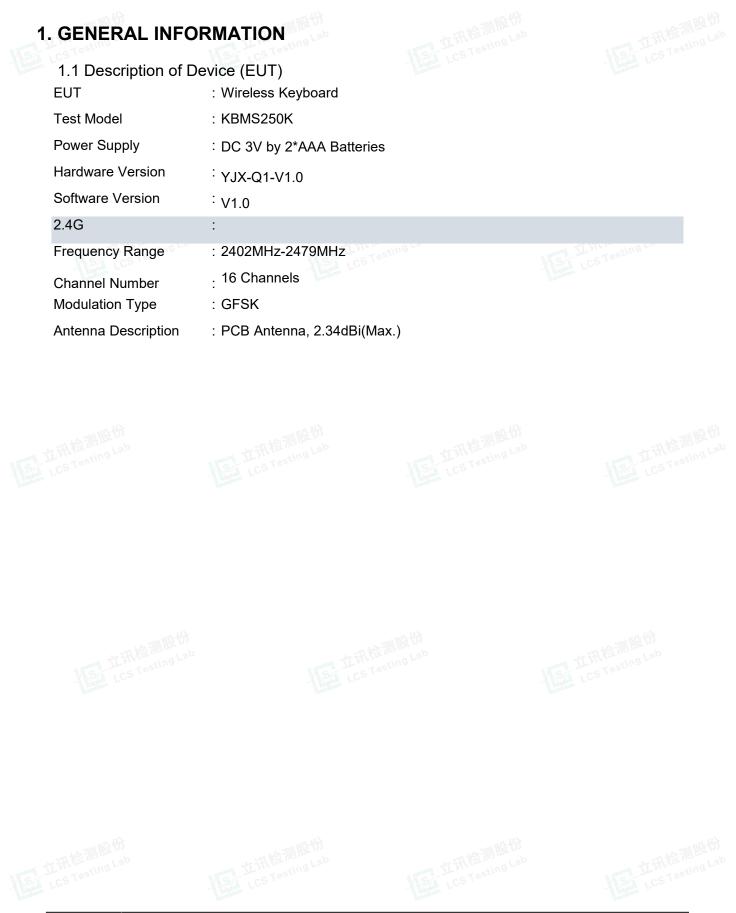
Page 5 of 33

TABLE OF CONTENTS

TABLE OF CONTENTS	
1. GENERAL INFORMATION	6
1.1 Description of Device (EUT)	
1.2. Support Equipment List	
1.3. External I/O	
1.4. Description of Test Facility	7
1.5. Statement of the measurement uncertainty	······7
1.6. Measurement Uncertainty 1.7. Description of Test Modes	
2. TEST METHODOLOGY	
2.1. EUT Configuration	
2.2. EUT Exercise	9
2.3. General Test Procedures	
3. CONNECTION DIAGRAM OF TEST SYSTEM	
3.2. EUT Exercise Software	
3.3. Special Accessories	
3.4. Block Diagram/Schematics	
3.5. Equipment Modifications	
4. SUMMARY OF TEST RESULTS	
5. ANTENNA REQUIREMENT	12
6. POWER LINE CONDUCTED EMISSIONS	
7. RADIATED EMISSION MEASUREMENT	
8. RESULTS FOR BAND EDGE TESTING	24
9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT	30
10. LIST OF MEASURING EQUIPMENT	32
11. TEST SETUP PHOTOGRAPHS OF THE EUT	33
12. EXTERIOR PHOTOGRAPHS OF THE EUT	33
13. INTERIOR PHOTOGRAPHS OF THE EUT	33



Report No.: LCSA050923033EA





1.2. Support Equipment List

ST LCS	Manufacturer	Description	Model	Serial Number	Certificate

1.3. External I/O

I/O 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 ISO/IEC 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
St. cSTostin		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	l: [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)
Occupied Channel		1GHz-40GHz	±5%	(1)
Bandwidth				

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



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1.7. Description of Test Modes

The EUT has been tested under operating condition.

立讯检测服份 This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

All test modes were tested, only the result of the worst case was recorded in the report. ***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.

	Mode of Operations	Transmitting Frequency (MHz)
	GFSK	2402
	GFSK	2437
	GFSK	2479
-	For Ra	adiated Emission
194	Test Mode	TX Mode

Detail Channel as belows:

Channel	Frequency(MHz)	Channel	Frequency(MHz)	
1	2402	9	2446	
2	2408	10	2451	
3	2417	11	2456	
4	2419	12	2460	
5	2421	13	2468	
3	2423	14	2474	
102 Via 7	2428	15	2478	-attended
8	2437	16	2479	Testing
	Les.	100 100	12	res.





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 its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. 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;

Scan code to check authenticity

12/12/12/10/10/0	and the second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Sample Number	Description	
Sample 1(A050923033-1)	Engineer sample – continuous tr	ansmit
Sample 2(A050923033-2)	Normal sample – Intermittent tra	nsmit



3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the batter. Rotate the button, and it goes to the next channel. Repeat the rotation button and it will be emitted on each channel in use.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software fcc_test_tool v2.1 provided by application.Power setting default.

3.3. Special Accessories

N/A

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 15 Subpart C §15.249	
FCC Rules	Description Of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Power Line Conducted Emissions	N/A
15.205(a), §15.209(a), §15.249(a), §15.249(c)	Radiated Emissions Measurement	Compliant
§15.249 (d)	Band Edges Measurement	Compliant
§2.1049	99% and 20 dB Bandwidth	Compliant
Remark: N/A* - Not Applicable!!!	a statistica a sta	ha 测版 D





5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203 and RSS-Gen, 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 replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The EUT use Internal Antenna(PCB Antenna) and maximum antenna gain is 2.34dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance



6. POWER LINE CONDUCTED EMISSIONS

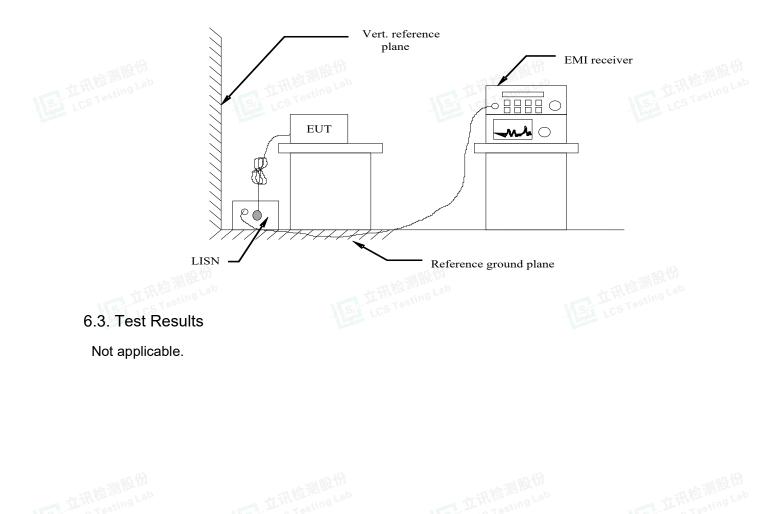
6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: 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	s (dBµV)	and the
	(MHz)	Quasi-peak	Average	2.38 BX
TI II	0.15 to 0.50	66 to 56	56 to 46	Testing L.
155 10	0.50 to 5	56	46	
and the second s	5 to 30	60	50	

* Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup





7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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) and 15.249 limit in the table below has to be followed.

Fundamental Frequency	Field Strength of fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50 cs ¹⁰⁵	500 05100
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

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

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

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

age
age
-



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP
Start Stan Fraguenau	1GHz~10GHz / RB/VB 1MHz/3MHz for PK
Start ~ Stop Frequency	1MHz/10Hz for AV

7.3. Test Procedure

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.





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:

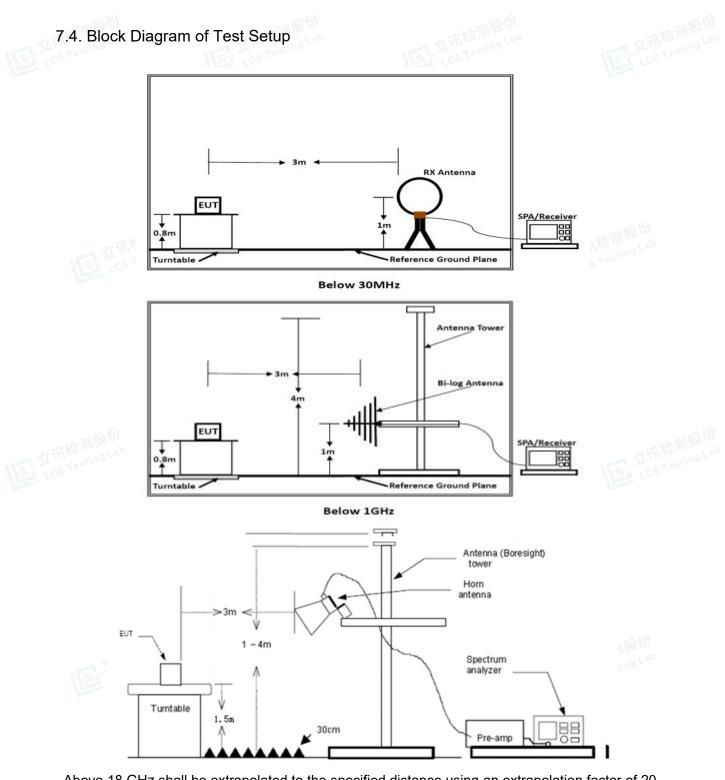
--- The final measurement will be performed with minimum the six highest peaks.

--- 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.





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

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



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

Temperature	23.8 ℃	Humidity	52.1%
Test Engineer	Taylor Hu		

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	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.

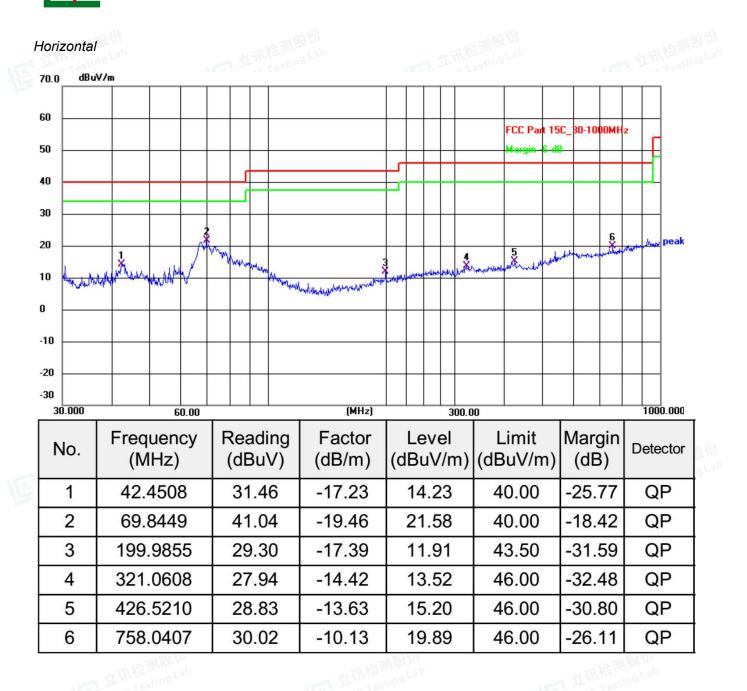
7.7. Test Results of Radiated Emissions (30 MHz - 1000 MHz)

Temperature	23.8 ℃	Humidity	52.1%
Test Engineer	Taylor Hu		

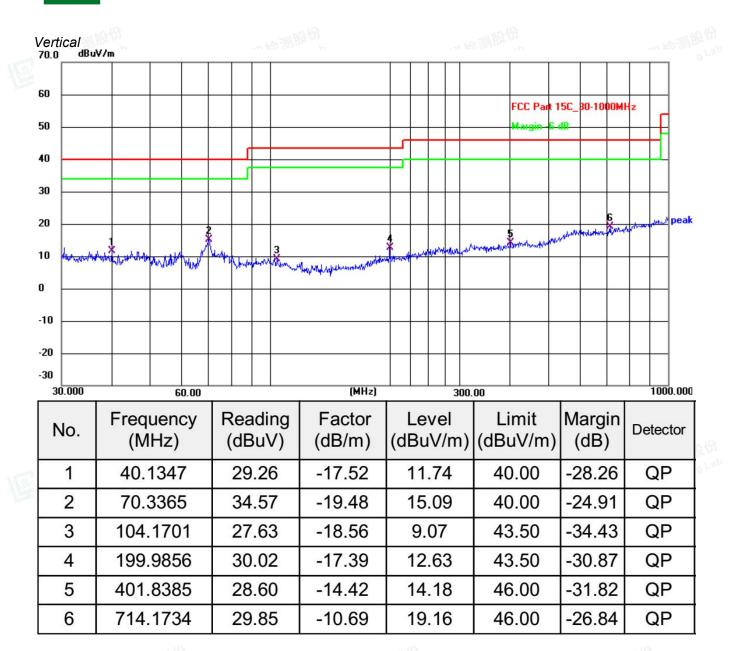












Note:

1). Pre-scan all modes and recorded the worst case results in this report (High Channel).

2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

3). Level = Reading + Factor, Margin = Level – Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor



7.8. Results for Radiated Emissions (1 - 26.5 GHz)

	with the I have			12 N 22	
市江市	Temperature	23.1 ℃	Humidity	52.3%	
	Test Engineer	Taylor Hu	Configurations	TX	

Channel 1 / 2402MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4804.00	54.03	33.06	35.04	3.94	55.99	74.00	-18.01	Peak	Horizontal
4804.00	44.68	33.06	35.04	3.94	46.64	54.00	-7.36	Average	Horizontal
4804.00	60.28	33.06	35.04	3.94	62.24	74.00	-11.76	Peak	Vertical
4804.00	40.58	33.06	35.04	3.94	42.54	54.00	-11.46	Average	Vertical

	_	Field Strength of	Fundamental (TX-2	2402 MHz)		
Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Measure Result (AVG, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result
2402.00	Н	79.18	63.41	114	94	Pass
2402.00	V	79.66	65.30	114	94	Pass

Channel 8 / 2437MHz

	Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
19	4874.00	56.58	33.16	35.15	3.96	58.55	74.00	-15.45	Peak	Horizontal
	4874.00	42.31	33.16	35.15	3.96	44.28	54.00	-9.72	Average	Horizontal
	4874.00	58.62	33.16	35.15	3.96	60.59	74.00	-13.41	Peak	Vertical
	4874.00	42.48	33.16	35.15	3.96	44.45	54.00	-9.55	Average	Vertical

Recult	AVG Limit (dBuV/m)	Peak Limit (dBuV/m)	Measure Result (AVG, dBuV/m)	Measure Result (PK, dBuV/m)	Pol.	Frequency (MHz)
Pass	94	114	66.17	80.26	Has	2437.00
Pass	94	114	68.62	79.49	V	2437.00
	94	114	68.62	79.49	V	2437.00

Channel 16 / 2479MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4958.00	57.67	33.26	35.14	3.98	59.77	74.00	-14.23	Peak	Horizontal
4958.00	44.07	33.26	35.14	3.98	46.17	54.00	-7.83	Average	Horizontal
4958.00	60.75	33.26	35.14	3.98	62.85	74.00	-11.15	Peak	Vertical
4958.00	43.85	33.26	35.14	3.98	45.95	54.00	-8.05	Average	Vertical
LCS Testin	19 Lab	15	TINKER LOS TOSE	Ing Lap	15	LCS TOST	ng Lab	A.	LCS Testing



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	Field Strength of Fundamental (TX-2479 MHz)										
Noo N	Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Measure Result (AVG, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result				
	2479.00	Н	80.41	67.49	114	94	Pass				
	2479.00	V	80.46	65.14	114	94	Pass				

Notes:

1). Measuring frequencies from 9 KHz - 10th harmonic or 26.5GHz (which is less), at least have 20dB margin 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). Margin=Reading level+Cab loss+Ant Fac-Pre Fac-Limit.
- 3). 18~25 GHz at least have 20dB margin. No recording in the test report.
- 4). Measured Level = Reading Level + Factor, Margin = Level Limit,
- Factor = Antenna Factor + Cable Loss Preamp Factor.





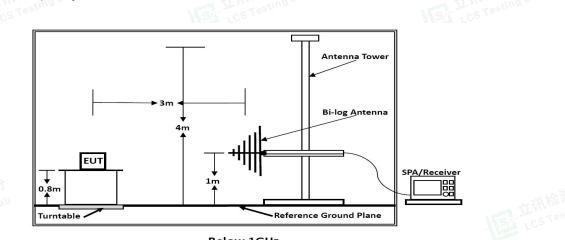
8. RESULTS FOR BAND EDGE TESTING

8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

8.2. Test Setup Layout



Below 1GHz

8.3. Measuring Instruments and Setting

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

8.4. Test Procedures

3) Sequence of testing 30MHz to 1000 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 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.



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--- 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 (± 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.

8.5. Measuring Instruments and Setting

La mal 20	to the Well Car a Lab	to the second have been a featured by the second by the	av	MEL Cond
Temperature	23.5 ℃	Humidity	52.1%	Testins
Test Engineer	Taylor Hu			

PASS

Remark:

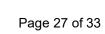
- 1. The other emission levels were very low against the limit.
- 2. Detector PK is setting spectrum/receiver. RBW=100KHz/VBW=300KHz/Sweep time=Auto/Detector=Peak;
- 3. Please refer to following test plots;





orizonta 30.0 dBu		- 1. C. STILL	8.18		。這股份		
20					FCC PART 15.3	249-PK-2,4G-L	
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00					FCC PART 15.	249-AV-2 4G-L	
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2300.000	2312.00 2324.00	2336.00 234	48.00 (MHz)	2372.00 23	384.00 2396.00	2408.00	2420.00
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2300.000	49.05	-12.05	37.00	74.00	-37.00	peak
2	2310.000	50.48	-12.02	38.46	74.00	-35.54	peak
3	2354.360	51.96	-11.86	40.10	74.00	-33.90	peak
4	2390.000	50.61	-11.73	38.88	74.00	-35.12	peak
-	2400.000	61.46	-11.70	49.76	74.00	-24.24	peak
5			01 201 102001 22007				

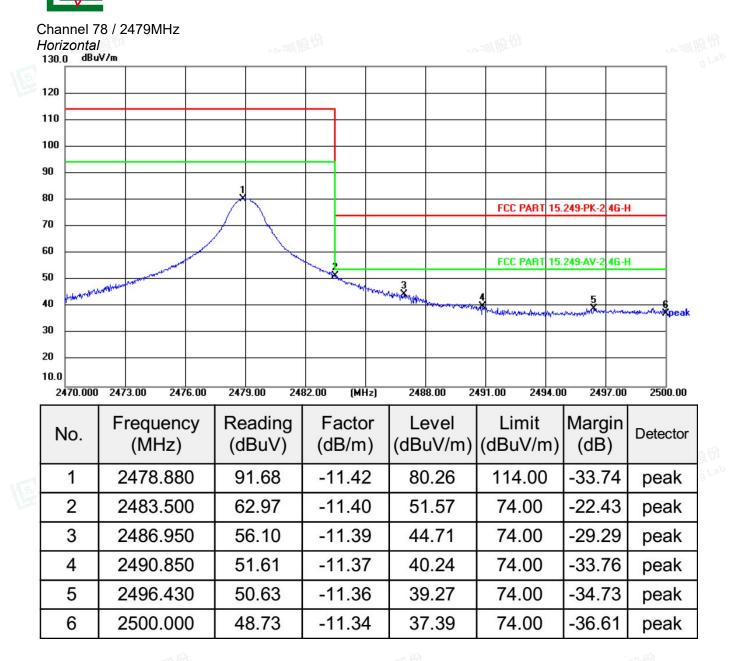




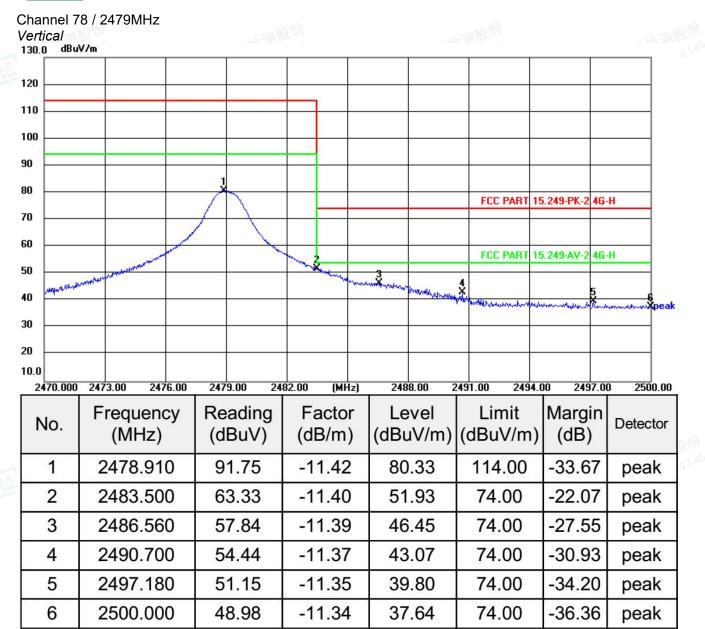
Chai <i>Verti</i> 130.0			102MH	Ηz			_ 1.6 - []]	影份		1			li en	服份						
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1	1	2	300.	.00	0	4	7.38	-1	2.0	5	3	5.33		74.0	0	-38.	67	ре	ak	g Lat
	2	2310.000 48.39		-1	2.0	2	3	6.37		74.0	0	-37.	63	ре	ak	1				
	3	2	339	.48	0	5	1.32	-1	1.9	1	3	9.41		74.0	0	-34.	59	ре	ak	1
8	4	2	390.	.00	0	4	8.31	-1	1.7	3	3	6.58		74.0	0	-37.	42	ре	ak	1
	5	2	400	.00	0	6	3.85	-1	1.7	0	5	2.15		74.0	0	-21.	85	ре	ak]
	6	2	402	.12	0	8	9.84	-1	1.7	0	7	8.14		114.0	00	-35.	86	ре	ak]



Report No.: LCSA050923033EA







Notes:

1) Level (dBuv/m) =Reading+Factor;

2) Margin(dB)=Level-Limit;

3) Factor=Ant Fac-Pre Fac+Cab Loss.



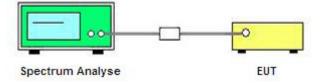
9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT

9.1. Standard Applicable

According to § 2.1049 and RSS-Gen section 6.7 "The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs."

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

9.2. Block Diagram of Test Setup



9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 1 MHz

RBW = 9.1 KHz

VBW = 27KHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).



9.4. Test Results

ST LCS	Temperature	24.6 ℃	Humidity	54.1%
	Test Engineer	Taylor Hu		

Test Frequency	99% Bandwidth	20dB Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2402	0.87202	0.9102	Non-Specified	
2437	0.87246	0.9100	Non-Specified	
2479	0.87272	0.9105	Non-Specified	
to Barrier Market		A the weather the state	A STATES	

Remark:

1. Test results including cable loss;

2. Please refer following test plots;





10. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022-10-29	2023-10-28
2	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
3	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05
4	EMI Test Software	AUDIX	E3	1	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-16	2023-06-15
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
10	EMI Test Receiver	R&S	ESR 7	101181	2022-06-16	2023-06-15
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
12	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15
13	EMI Test Receiver	R&S	ESPI	101940	2022-08-18	2023-08-17
14	Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15
15	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2022-06-16	2023-06-15
16	EMI Test Software	Farad	EZ	/	N/A	N/A



Report No.: LCSA050923033EA



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

12. EXTERIOR PHOTOGRAPHS OF THE EUT

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

13. INTERIOR PHOTOGRAPHS OF THE EUT

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







-----THE END OF REPORT------

