

FCC TEST REPORT

FOR

Elfday RFID Technology Co., Ltd.

RFID reader

Test Model: LT-DS801J-370

Additional Model No.: Please Refer to Page 6

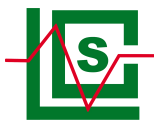
Prepared for : Elfday RFID Technology Co., Ltd.
Address : 8th Floor, Building 7, No. 2 Huangyong Industrial Road, Zhongtang Town, Dongguan City, Guangdong Province

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : July 20, 2026
Number of tested samples : 2
Sample No. : A260720083-1, A260720083-2
Serial number : Prototype
Date of Test : July 20, 2026 ~ September 11, 2026
Date of Report : September 14, 2026

TRF-4-E-165 A/0

Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: (+86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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FCC TEST REPORT	
FCC CFR 47 PART 15 C (15.249)	
Report Reference No.	: LCSA07206078EA
Date of Issue.....	: September 14, 2026
Testing Laboratory Name.....	: Shenzhen LCS Compliance Testing Laboratory Ltd..
Address.....	: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....	: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	: Elfday RFID Technology Co., Ltd.
Address.....	: 8th Floor, Building 7, No. 2 Huangyong Industrial Road, Zhongtang Town, Dongguan City, Guangdong Province
Test Specification	
Standard.....	: FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2020
TRF Originator.....	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	: Dated 2011-03
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Test Item Description.....	: RFID reader
Trade Mark.....	: N/A
Test Model.....	: LT-DS801J-370
Ratings.....	: Please Refer to Page 6
Result	: PASS

Compiled by:

Li Huan/ Administrator

Supervised by:

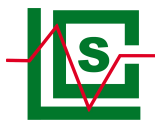
Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager

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**FCC -- TEST REPORT**

Test Report No. :	LCSA07206078EA	<u>September 14, 2026</u> Date of issue
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Test Model..... : LT-DS801J-370

EUT..... : RFID reader

Applicant..... : Elfdays RFID Technology Co., Ltd.

Address..... : 8th Floor, Building 7, No. 2 Huangyong Industrial Road, Zhongtang Town, Dongguan City, Guangdong Province

Telephone..... : /

Fax..... : /

Manufacturer..... : Elfdays RFID Technology Co., Ltd.

Address..... : 8th Floor, Building 7, No. 2 Huangyong Industrial Road, Zhongtang Town, Dongguan City, Guangdong Province

Telephone..... : /

Fax..... : /

Factory..... : Elfdays RFID Technology Co., Ltd.

Address..... : 8th Floor, Building 7, No. 2 Huangyong Industrial Road, Zhongtang Town, Dongguan City, Guangdong Province

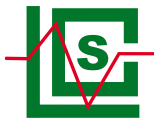
Telephone..... : /

Fax..... : /

Test Result	PASS
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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

Report Version	Issue Date	Revision Content	Revised By
000	September 14, 2026	Initial Issue	---

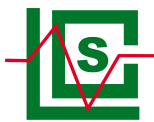
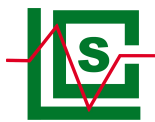


TABLE OF CONTENTS

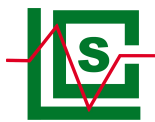
1. GENERAL INFORMATION.....	6
1.1 Description of Device (EUT).....	6
1.2. Support Equipment List.....	7
1.3. External I/O.....	7
1.4. Description of Test Facility.....	7
1.5. Statement of the measurement uncertainty.....	7
1.6. Measurement Uncertainty.....	7
1.7. Description of Test Modes.....	8
2. TEST METHODOLOGY.....	9
2.1. EUT Configuration.....	9
2.2. EUT Exercise.....	9
2.3. General Test Procedures.....	9
2.4. Test Sample.....	9
3. CONNECTION DIAGRAM OF TEST SYSTEM.....	10
3.1. Justification.....	10
3.2. EUT Exercise Software.....	10
3.3. Special Accessories.....	10
3.4. Block Diagram/Schematics.....	10
3.5. Equipment Modifications.....	10
3.6. Test Setup.....	10
4. SUMMARY OF TEST RESULTS.....	11
5. ANTENNA REQUIREMENT.....	12
6. POWER LINE CONDUCTED EMISSIONS.....	13
7. RADIATED EMISSION MEASUREMENT.....	16
8. RESULTS FOR BAND EDGE TESTING.....	25
9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT.....	31
10. LIST OF MEASURING EQUIPMENT.....	33
11. TEST SETUP PHOTOGRAPHS OF THE EUT.....	34
12. EXTERIOR PHOTOGRAPHS OF THE EUT.....	34
13. INTERIOR PHOTOGRAPHS OF THE EUT.....	34



1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: RFID reader
Test Model	: LT-DS801J-370
Additional Model No.	: LT-DS801J-225, LT-DS801J-600, LT-DS814, LT-DS818, LT-DS8116, LT-DS902, LT-DS906, LT-DS903-650, LT-DS704, LT-DS709, LT-DS712, LT-DS9018, LT-DS302, LT-DS305, LT-DS322
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Ratings	: Input: 9.0V $\pm$ 3.0A For AC Adapter Input: 100-240V~, 50/60Hz, 1.0A Adapter Output: 9.0V $\pm$ 3.0A, 27.0W
Hardware Version	: /
Software Version	: /
915MHz	:
Frequency Range	: 902.75MHz-927.25MHz
Channel Number	: 51 channels
Modulation Type	: GFSK
Antenna Description	: PCB Antenna, 7.23dBi(Max.)
Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.	



1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Juyuanhai Electronic Co., Ltd	ADAPTOR	JYH29Z-09 00300-BD	--	FCC
HUAWEI	PC	MDG-32	---	FCC

Note: The PC is supplied by lab and only use tested

1.3. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	N/A
VGA Port	2	N/A
LAN Port	1	N/A

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.

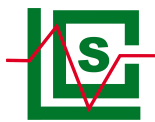
1.5. Statement of the measurement uncertainty

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
Radiation Uncertainty	9KHz~30MHz	±3.10dB	(1)
	30MHz~200MHz	±2.96dB	(1)
	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)

(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 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	902.75
GFSK	912.25
GFSK	927.25
For Radiated Emission	
Test Mode	TX Mode

Detail Channel as follows:

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	902.75	18	911.75	35	919.25
2	903.25	19	912.25	36	919.75
3	903.75	20	912.75	37	920.25
4	904.25	21	913.25	38	920.75
5	904.75	22	913.75	39	921.25
6	905.25	23	913.25	40	921.75
7	905.75	24	913.75	41	922.25
8	906.25	25	914.25	42	922.75
9	906.75	26	914.75	43	923.25
10	907.25	27	915.25	44	923.75
11	907.75	28	915.75	45	924.25
12	908.25	29	916.25	46	924.75
13	908.75	30	916.75	47	925.25
14	909.25	31	917.25	48	925.75
15	910.25	32	917.75	49	926.25
16	910.75	33	918.25	50	926.75
17	911.25	34	918.75	51	927.25

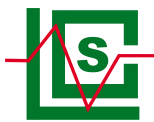
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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2020, 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 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

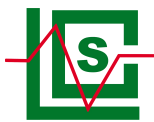
2.3.2 Radiated Emissions

The EUT is placed on a 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 C63.10-2020.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A260720083-1)	Engineer sample – continuous transmit
Sample 2(A260720083-2)	Normal sample – Intermittent transmit



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. When press the "up" button, it'll move to the next channel. Repeat press "up" button, it'll transmitting at each of the channel used.

3.2. EUT Exercise Software

EUT will Test instruction packet sending

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

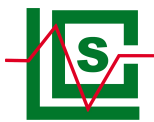
Please refer to the related document

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.

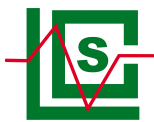


4. SUMMARY OF TEST RESULTS

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	Compliant
§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

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5. ANTENNA REQUIREMENT

5.1. 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. 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 gains of antenna used for transmitting is 7.23dBi(Max.), and the antenna is an PCB Antenna and no consideration of replacement. Please see EUT photo for details.

5.3. Results

Compliance

6. POWER LINE CONDUCTED EMISSIONS

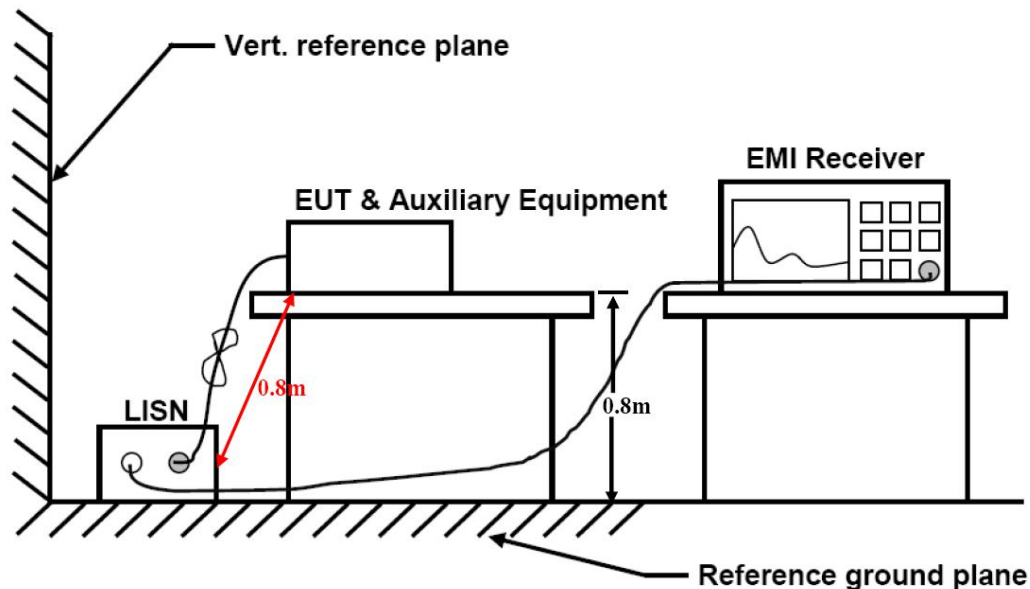
6.1. Standard Applicable

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 (MHz)	Limits (dBμV)	
	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

6.2. Block Diagram of Test Setup



6.3 Disturbance Calculation

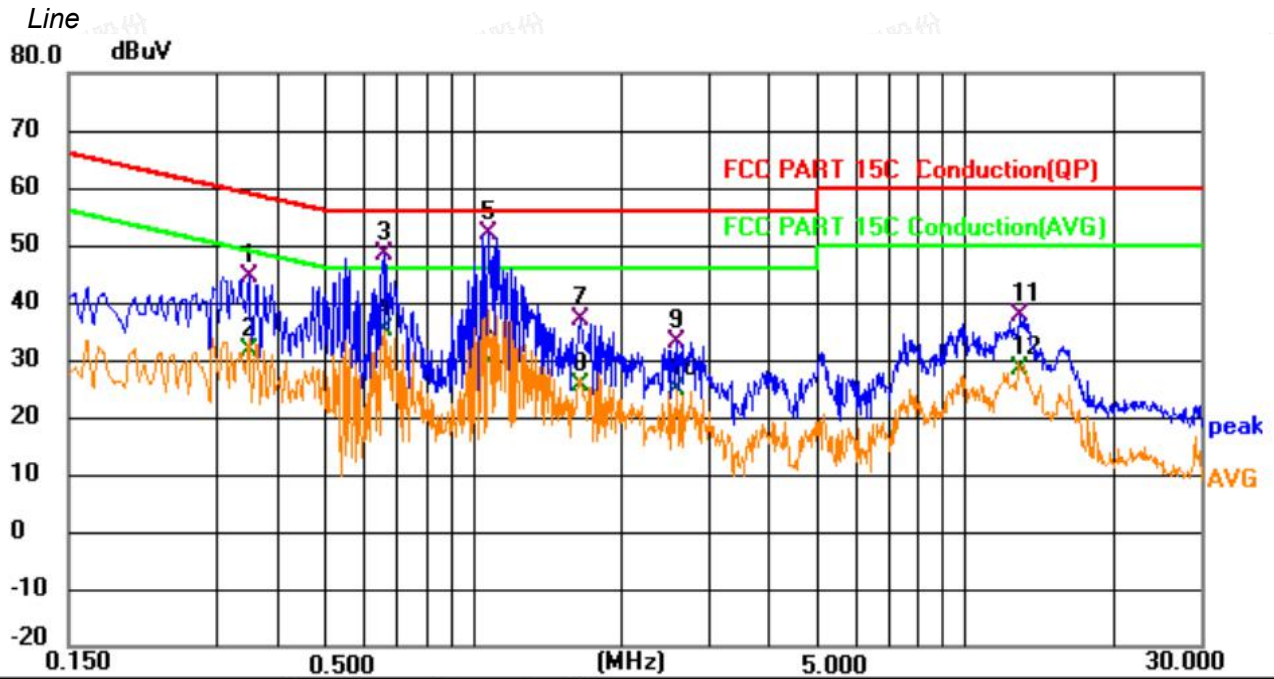
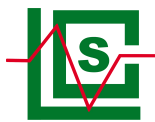
The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBμV)} = RA \text{ (dBμV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

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

6.4. Test Results

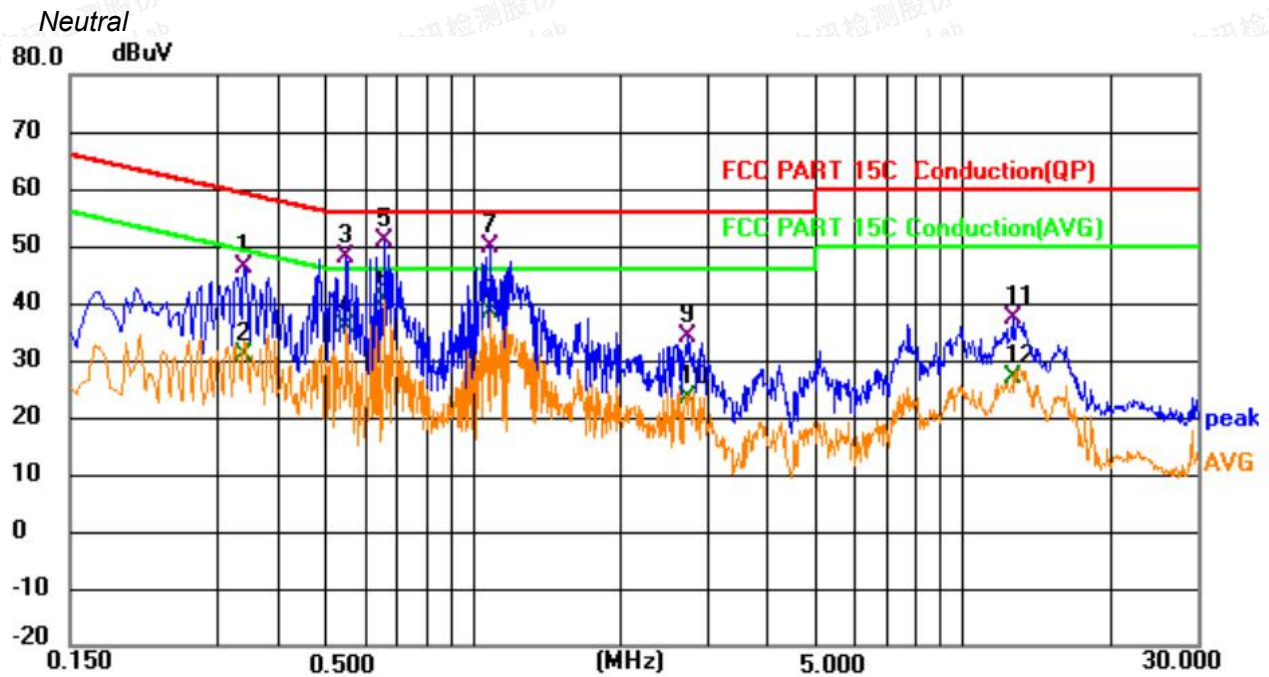
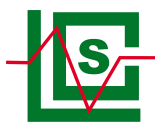
Temperature	22.5°C	Humidity	53.7%
Test Engineer	Jerry Chu		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.348	23.94	20.37	44.31	59.01	-14.70	QP	
2		0.348	11.38	20.37	31.75	49.01	-17.26	AVG	
3		0.654	28.53	20.02	48.55	56.00	-7.45	QP	
4		0.654	15.02	20.02	35.04	46.00	-10.96	AVG	
5	*	1.071	32.52	19.62	52.14	56.00	-3.86	QP	
6		1.071	9.86	19.62	29.48	46.00	-16.52	AVG	
7		1.654	17.14	19.67	36.81	56.00	-19.19	QP	
8		1.654	6.01	19.67	25.68	46.00	-20.32	AVG	
9		2.581	13.30	19.71	33.01	56.00	-22.99	QP	
10		2.581	5.04	19.71	24.75	46.00	-21.25	AVG	
11		12.920	17.64	20.20	37.84	60.00	-22.16	QP	
12		12.920	8.22	20.20	28.42	50.00	-21.58	AVG	

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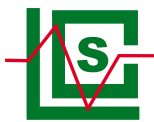


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.339	26.01	20.33	46.34	59.23	-12.89	QP	
2		0.339	10.67	20.33	31.00	49.23	-18.23	AVG	
3		0.550	27.96	20.18	48.14	56.00	-7.86	QP	
4		0.550	15.89	20.18	36.07	46.00	-9.93	AVG	
5	*	0.658	31.04	19.96	51.00	56.00	-5.00	QP	
6		0.658	20.55	19.96	40.51	46.00	-5.49	AVG	
7		1.077	30.33	19.63	49.96	56.00	-6.04	QP	
8		1.077	18.75	19.63	38.38	46.00	-7.62	AVG	
9		2.737	14.32	19.78	34.10	56.00	-21.90	QP	
10		2.737	3.75	19.78	23.53	46.00	-22.47	AVG	
11		12.687	17.16	20.22	37.38	60.00	-22.62	QP	
12		12.687	6.83	20.22	27.05	50.00	-22.95	AVG	

***Note: Pre-scan all modes and recorded the worst case results in this report.

Measurement= Reading + Correct Factor, Margin = Measurement – Limit.

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



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	500
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	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.

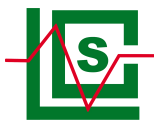
7.2. Instruments Setting

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

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 / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

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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 ~ Stop Frequency	1GHz~10GHz / RB/VB 1MHz/3MHz for PK 1MHz/10Hz for AV

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

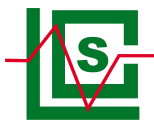
- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables 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:

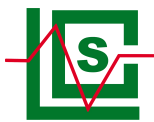
- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with 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 ($\pm 45^\circ$) 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.

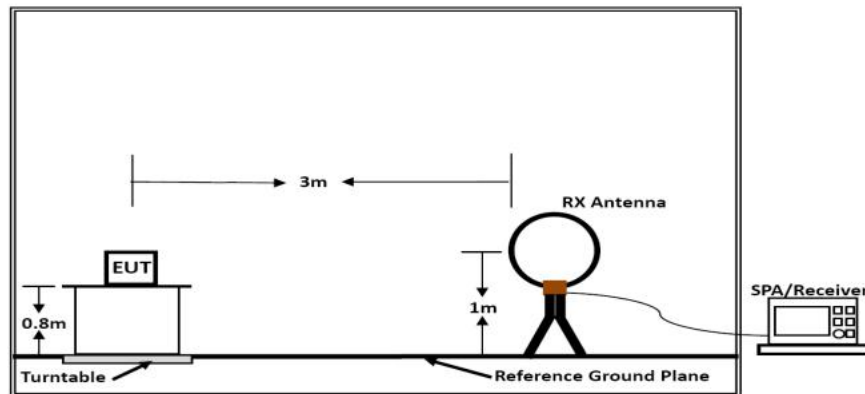
Premeasurement:

- 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.

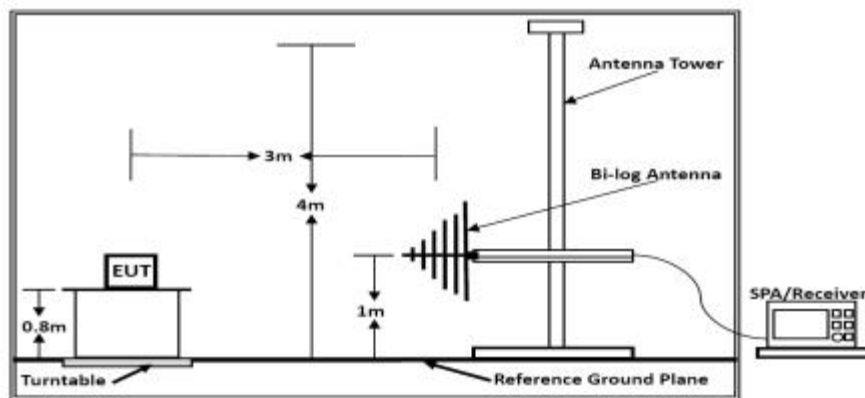
Final measurement:

- 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 ($\pm 45^\circ$) 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.

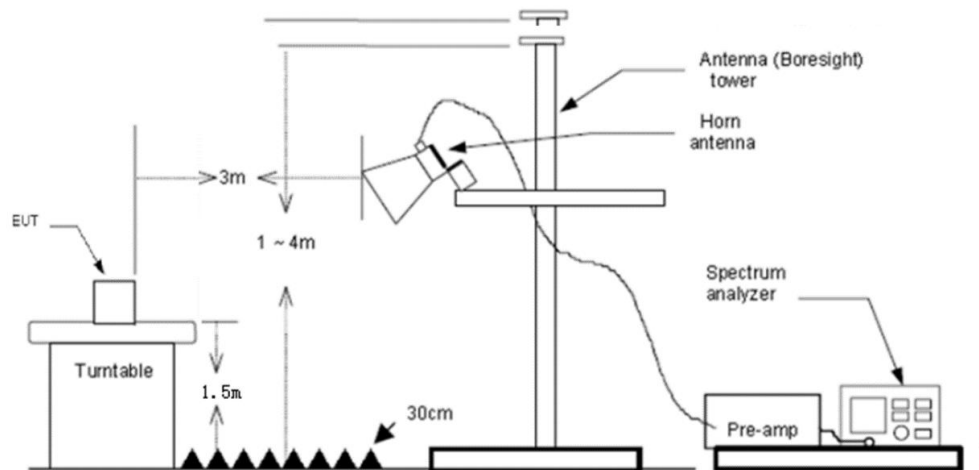
7.4. Block Diagram of Test Setup



Below 30MHz



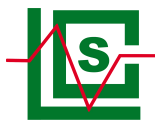
Below 1GHz



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

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



7.6. EUT Operation during Test

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:

$$\text{FS (dBuV/m)} = \text{RA (dBuV)} + \text{AF (dB/m)} + \text{CL (dB)} - \text{AG (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

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

Temperature	23.8°C	Humidity	52.1%
Test Engineer	Jerry Chu		

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

Note:

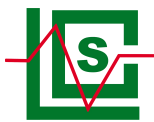
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

7.8. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

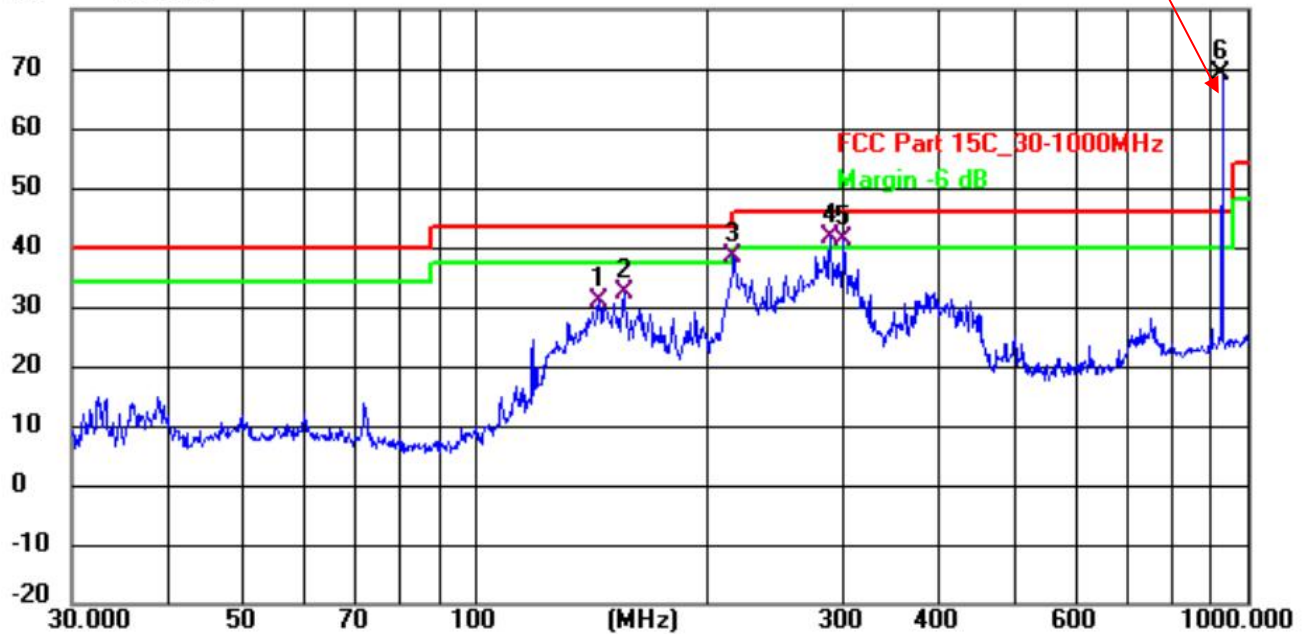
Temperature	23.8°C	Humidity	52.1%
Test Engineer	Jerry Chu		



Fundamental Frequency
Point

Horizontal

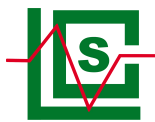
dBuV/m



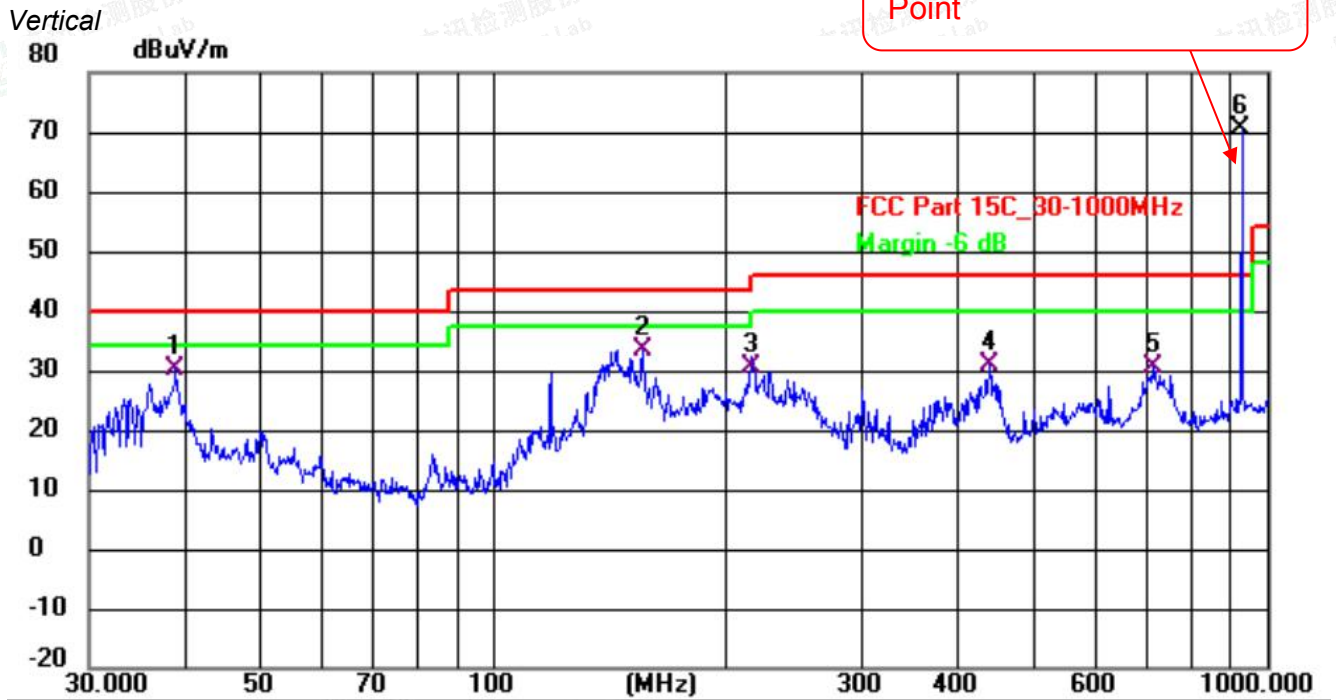
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		144.3347	52.67	-21.84	30.83	43.50	-12.67	QP	
2		155.9101	54.28	-22.03	32.25	43.50	-11.25	QP	
3		216.0240	57.51	-19.04	38.47	46.00	-7.53	QP	
4	!	287.9904	58.16	-16.72	41.44	46.00	-4.56	QP	
5	!	300.3672	57.47	-16.31	41.16	46.00	-4.84	QP	
6	*	927.2500	75.06	-5.86	69.20	46.00	23.20	peak	

TRF-4-E-165 A/0

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Fundamental Frequency
Point



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.8878	49.04	-18.80	30.24	40.00	-9.76	QP	
2		155.9101	54.38	-20.87	33.51	43.50	-9.99	QP	
3		215.2678	48.41	-17.95	30.46	43.50	-13.04	QP	
4		438.6554	45.16	-14.24	30.92	46.00	-15.08	QP	
5		711.6734	40.21	-9.71	30.50	46.00	-15.50	QP	
6	*	927.2500	77.08	-6.44	70.64	46.00	24.64	peak	

Note:

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

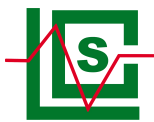
2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Factor = Antenna Factor + Cable Loss - Preamp Factor

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7.9. Results for Radiated Emissions (1 – 10 GHz)

Channel 01/ 902.75MHz

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
1805.50	54.78	33.06	35.04	3.94	56.74	74.00	-17.26	Peak	Horizontal
1805.50	42.69	33.06	35.04	3.94	44.65	54.00	-9.35	Average	Horizontal
1805.50	53.88	33.06	35.04	3.94	55.84	74.00	-18.16	Peak	Vertical
1805.50	41.89	33.06	35.04	3.94	43.85	54.00	-10.15	Average	Vertical

Fundamental and Harmonics Worst Result

Freq. MHz	Reading Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit(dBμV/m) (QP)	Conclusion
902.75MHz	94.93	-0.80	88.13	94.00	PASS

Channel 02/ 912.25MHz

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
1824.50	60.80	33.16	35.15	3.96	62.77	74.00	-11.23	Peak	Horizontal
1824.50	42.70	33.16	35.15	3.96	44.67	54.00	-9.33	Average	Horizontal
1824.50	57.59	33.16	35.15	3.96	59.56	74.00	-14.44	Peak	Vertical
1824.50	42.89	33.16	35.15	3.96	44.86	54.00	-9.14	Average	Vertical

Fundamental and Harmonics Worst Result

Freq. MHz	Reading Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit(dBμV/m) (QP)	Conclusion
912.25MHz	94.68	-6.35	88.33	94.00	PASS

Channel 51/ 927.25MHz

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
1854.50	59.95	33.26	35.14	3.98	62.05	74.00	-11.95	Peak	Horizontal
1854.50	43.72	33.26	35.14	3.98	45.82	54.00	-8.18	Average	Horizontal
1854.50	58.60	33.26	35.14	3.98	60.70	74.00	-13.30	Peak	Vertical
1854.50	45.29	33.26	35.14	3.98	47.39	54.00	-6.61	Average	Vertical

Fundamental and Harmonics Worst Result

Freq. MHz	Reading Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit(dBμV/m) (QP)	Conclusion
927.25MHz	94.90	-6.44	88.46	94.00	PASS

Notes:

- 1). Measuring frequencies from 9 KHz - 10th harmonic (ex. 10GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz - 10th harmonic (ex. 10GHz) were made with an instrument using Peak detector mode.
- 3). Margin=Reading level+Cab loss+Ant Fac-Pre Fac-Limit.

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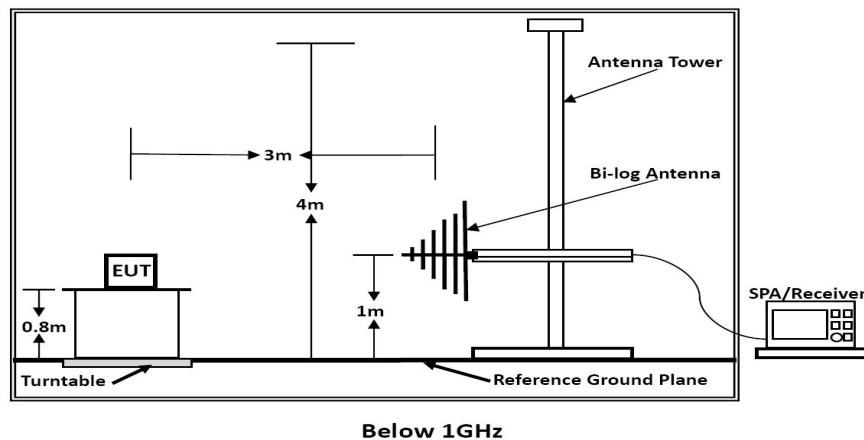
8. RESULTS FOR BAND EDGE TESTING

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



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

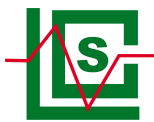
3) Sequence of testing 30MHz to 1000 MHz

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.
- The EUT was set into operation.

TRF-4-E-165 A/0

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**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 ($\pm 45^\circ$) 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.

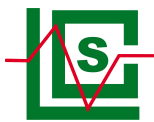
8.5. Measuring Instruments and Setting

Temperature	23.8°C	Humidity	52.5%
Test Engineer	Jerry Chu		

PASS

Remark:

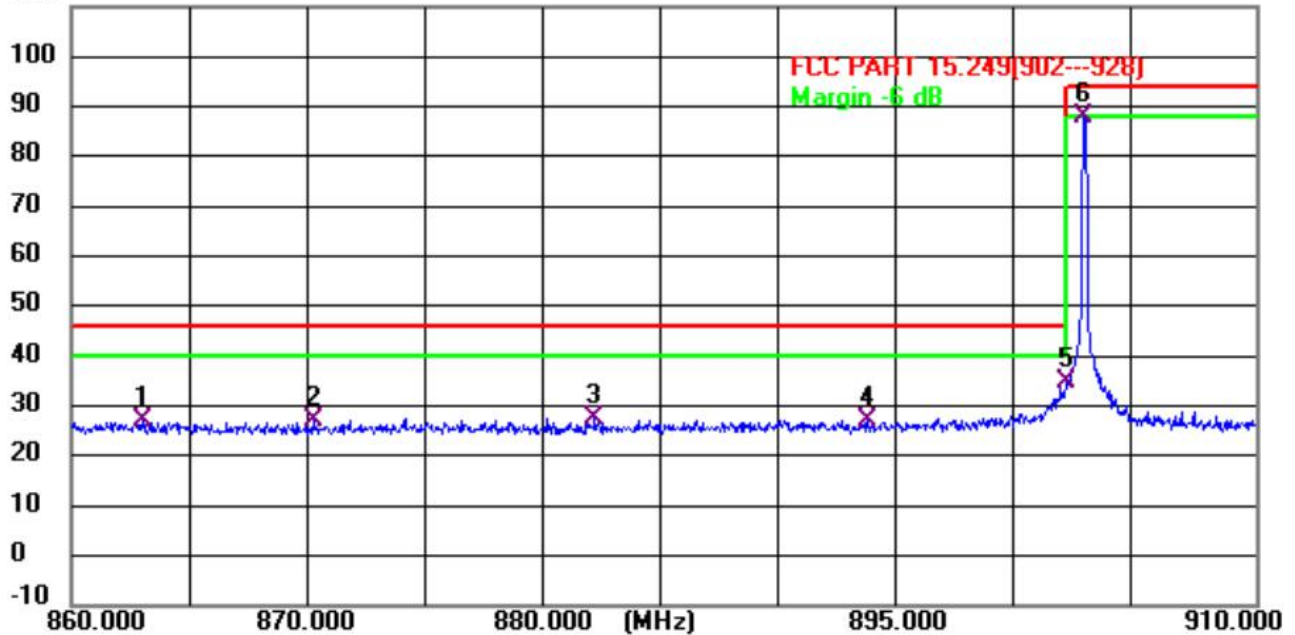
1. The other emission levels were very low against the limit.
2. Detector PK is setting spectrum/receiver. RBW=100KHz/VBW=300KHz/Sweep time=Auto/Detector=Peak;
3. Please refer to following test plots;



Channel 01 / 902.75MHz

Horizontal

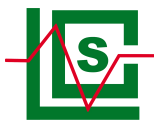
110 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		863.0500	33.87	-6.87	27.00	46.00	-19.00	QP	
2		870.2000	33.94	-6.89	27.05	46.00	-18.95	QP	
3		882.1000	34.27	-6.72	27.55	46.00	-18.45	QP	
4		893.6000	33.67	-6.41	27.26	46.00	-18.74	QP	
5		902.0000	40.89	-6.22	34.67	46.00	-11.33	QP	
6	*	902.7500	94.17	-6.21	87.96	94.00	-6.04	QP	

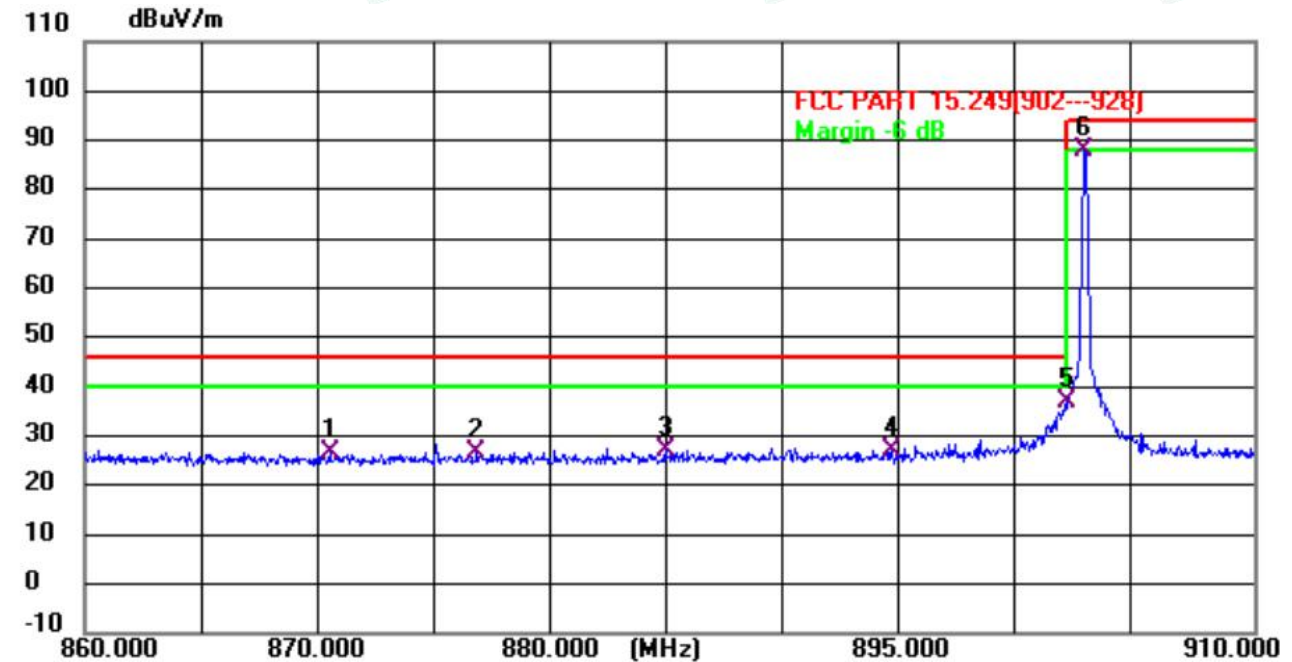
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Channel 01 / 902.75MHz

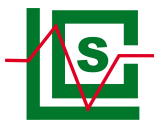
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		870.5000	34.06	-7.36	26.70	46.00	-19.30	QP	
2		876.7500	33.87	-7.27	26.60	46.00	-19.40	QP	
3		884.8500	34.26	-7.12	27.14	46.00	-18.86	QP	
4		894.5000	34.08	-6.95	27.13	46.00	-18.87	QP	
5		902.0000	43.55	-6.82	36.73	46.00	-9.27	QP	
6	*	902.7500	94.93	-6.80	88.13	94.00	-5.87	QP	

TRF-4-E-165 A/0

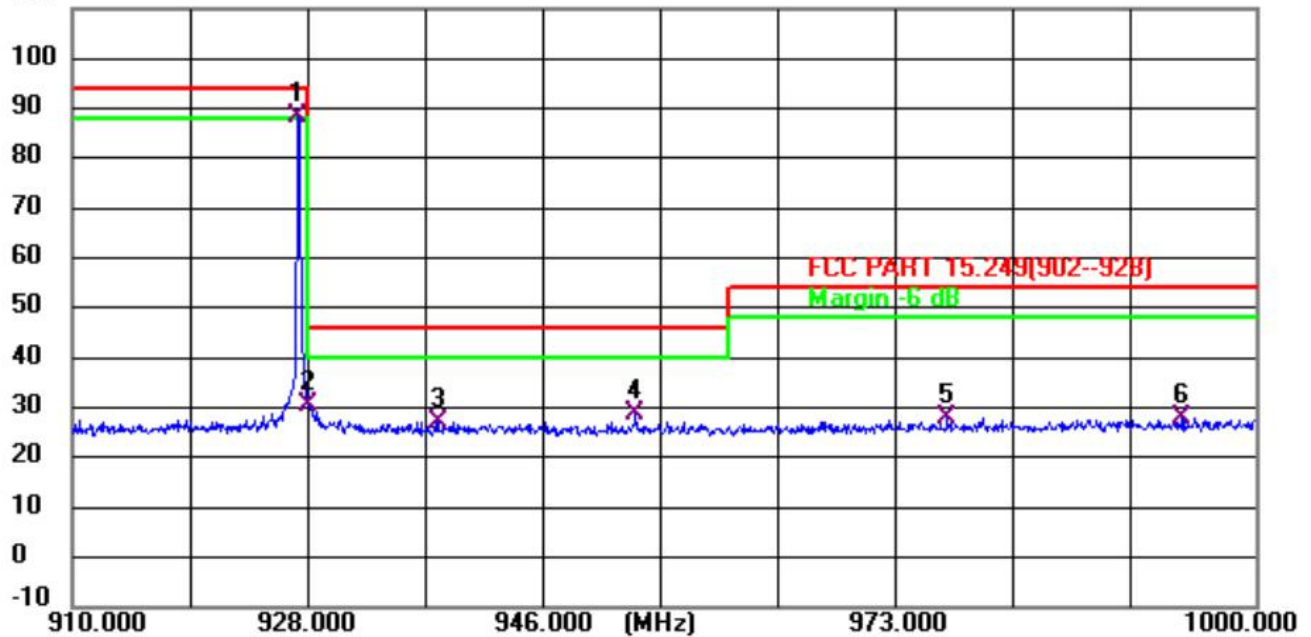
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Channel 51/ 927.25MHz

Horizontal

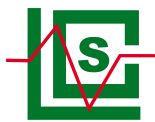
110 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	927.2500	94.17	-5.86	88.31	94.00	-5.69	QP	
2		928.0000	36.19	-5.83	30.36	46.00	-15.64	QP	
3		937.8100	32.72	-5.54	27.18	46.00	-18.82	QP	
4		952.8400	33.78	-5.18	28.60	46.00	-17.40	QP	
5		976.6000	32.90	-5.10	27.80	54.00	-26.20	QP	
6		994.4200	33.03	-5.04	27.99	54.00	-26.01	QP	

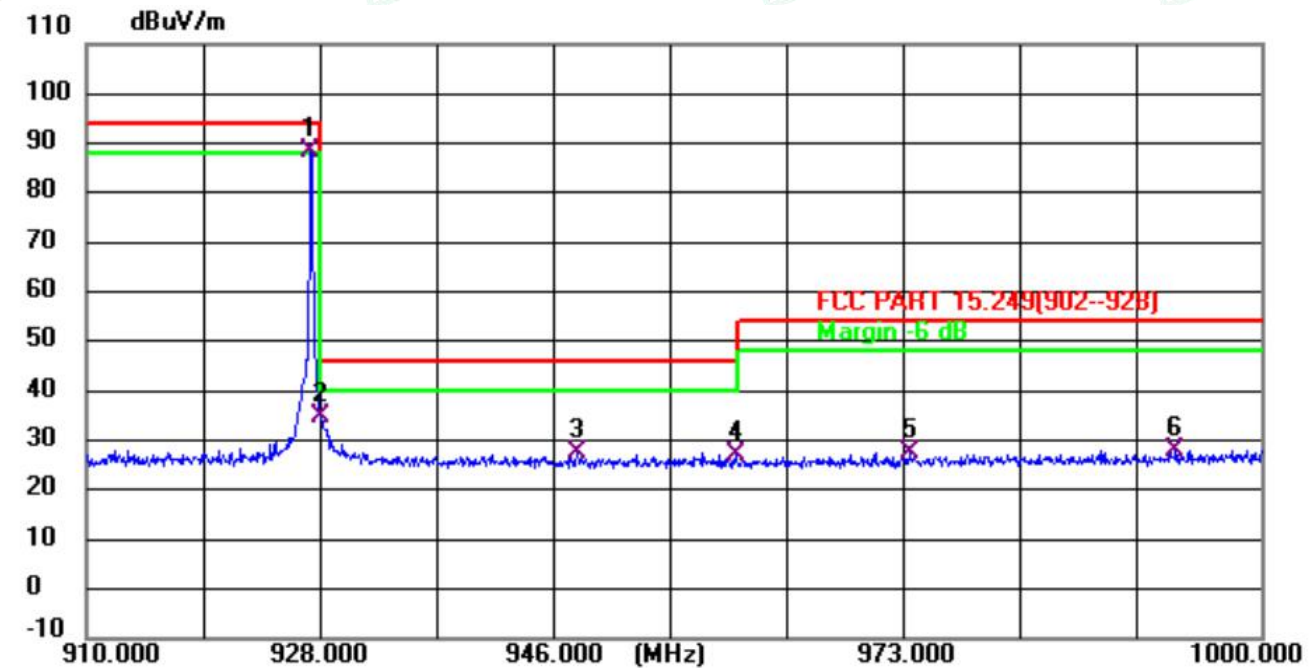
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Channel 51/ 927.25MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	927.2500	94.90	-6.44	88.46	94.00	-5.54	QP	
2		928.0000	41.19	-6.44	34.75	46.00	-11.25	QP	
3		947.5300	33.89	-6.56	27.33	46.00	-18.67	QP	
4		959.7700	33.36	-6.41	26.95	46.00	-19.05	QP	
5		973.0900	33.58	-6.18	27.40	54.00	-26.60	QP	
6		993.4300	33.65	-5.68	27.97	54.00	-26.03	QP	

Note: Due to the measure PK emission level less than the AV limit value. No necessary to take down the AV emission level.

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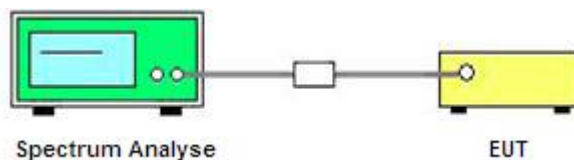
9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT

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 = 300 kHz

RBW = 3 KHz

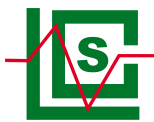
VBW = 10 KHz

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

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Jerry Chu		

Test Result of 99% and 20dB Bandwidth Measurement			
Test Frequency (MHz)	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit (MHz)
902.75	70.81	77.257	Non-Specified
912.25	70.95	82.399	Non-Specified
927.25	70.84	74.288	Non-Specified

Remark:

1. Test results including cable loss;
2. Please refer following test plots;



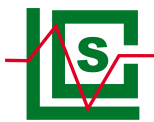
TRF-4-E-165 A/0

Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

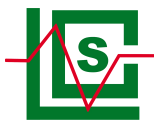


10. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY53300304	2026-04-21	2027-04-20
2	DC Power Supply	Agilent	E3642A	N/A	2025-09-27	2026-09-26
3	Temperature & Humidity Chamber	Baro	/	/	2026-05-06	2027-05-05
4	EMI Test Software	Farad	EZ-EMC	Ver.FARAD-3A1.1 +	N/A	N/A
5	3m Semi Anechoic Chamber	Maorui	966	/	2023-10-12	2026-10-11
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
10	EMI Test Receiver	R&S	ESR3	101181	2026-05-06	2027-05-05
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2026-04-21	2027-04-20
12	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2025-09-27	2026-09-26
13	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2025-09-27	2026-09-26
14	EMI Test Receiver	R&S	ESPI	101940	2026-04-21	2027-04-20
15	Artificial Mains	R&S	ENV216	101479	2026-04-21	2027-04-20
16	EMI Test Software	Farad	EZ-EMC	Ver. EMC-CON 3A1.1+	N/A	N/A
17	Antenna Mast	Max-Full	MFA-515BS N	1308572	N/A	N/A
18	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2026-05-06	2027-05-05
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
20	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2027-07-29

TRF-4-E-165 A/0

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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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11. TEST SETUP PHOTOGRAPHS OF THE EUT

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-----