

FCC Test Report

FCC ID : 2AAS9-WLRRTES106

Equipment : Femto Lite IoT Gateway

(Refer to item 1.1.1 for more details)

Model No. : WLRRTES-106

Brand Name : BROWAN

Applicant: Brown Communications Incorporation.

Address : No.15-1 Zhonghua Road, Hsinchu Industrial

Park, Hukou, Hsinchu, Taiwan (R.O.C.), 30352.

Standard : 47 CFR FCC Part 15.247

Received Date : Jul. 02, 2021

Tested Date : Jul. 05, 2021 ~ Jul. 21, 2021

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Chen / Assistant Manager Gary Chang / Manager

Testing L

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Testing Laboratory 2732

Report No.: FR0D2402-01



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Release Record

Report No.	Version	Description	Issued Date
FR0D2402-01	Rev. 01	Initial issue	Aug. 18, 2021

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.529MHz 37.26 (Margin -8.74dB) - AV	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 30.55MHz	Pass
15.209	Radiated Effissions	37.59 (Margin -2.41dB) - QP	F d 5 5
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 27.16	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Information

The EUT has two housing options. Refers to EUT photo for detail information of housing.

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description	
BROWAN	WLRRTES-106	Femto Lite IoT Gateway	For marketing purpose	
		MerryIoT Hub	r or mannounty purpose	

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information						
Frequency Range (MHz)	Ch. Frequency (MHz)	Channel Number	Physical bit rate (bit/sec)	Spread Factor	Channel Bandwidth (kHz)	
902 ~ 928	923.3 ~ 927.5	73 ~ 80 [8]	980 ~ 21900	12 ~ 7	500	

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.

Note 2: The device uses LORA modulation.

1.1.3 Antenna Details

Ant. No.	Туре	Gain (dBi)	Connector	Remark
1	PIFA	1.47	UFL	

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from AC adapter

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1.1.5 Accessories

	Accessories			
No.	Equipment	Description		
1	AC adapter	Brand: PHIHONG Model: PSAF10A-050Q I/P: 100-240Vac, 50/60Hz, 0.28A O/P: 5.0Vdc=2.0A Power Line: 1.10m non-shielded without core		
2	AC adapter	Brand: Ktec Model: KSC-10A-050200HU I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 5.0Vdc=2.0A Power Line: 1.10m non-shielded without core		
3	Ethernet cable	0.95m non-shielded without core		

1.1.6 Channel List

Frequency Band (MHz)		902 ~928	
Channel Frequency(MHz)		Channel	Frequency(MHz)
73	923.3	77	925.7
74	923.9	78	926.3
75	924.5	79	926.9
76	925.1	80	927.5

1.1.7 Test Tool and Duty Cycle

Test Tool	Putty, V0.6		
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)	
Duty Cycle and Duty Factor	100.00%	0.00	

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
LORA	923.3	pa 3mix 15dig 0
LORA	927.5	pa 3mix 15dig 0

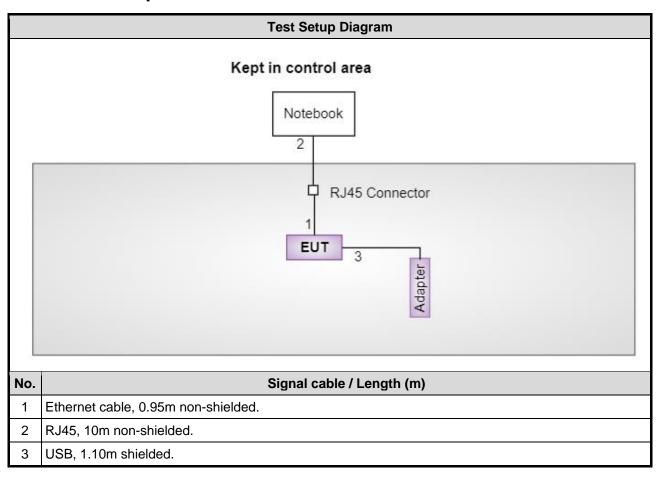
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1.2 Local Support Equipment List

Support Equipment List					
No. Equipment Brand Model FCC ID Rem				Remarks	
1	Notebook	DELL	Latitude E5470	DoC	
2	RJ45 Connector	ICC			

1.3 Test Setup Chart



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1.4 The Equipment List

Test Item	Conducted Emission							
Test Site	Conduction room 1 / (Conduction room 1 / (CO01-WS)						
Tested Date	Jul. 21, 2021	Jul. 21, 2021						
Instrument	Brand	Brand Model No. Serial No. Calibration Date Calibration Until						
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022			
LISN	R&S	R&S ENV216 101579 Mar. 17, 2021 Mar. 16, 2022						
RF Cable-CON	Woken	Woken CFD200-NL CFD200-NL-001 Oct. 21, 2020 Oct. 20, 2021						
Measurement Software	1 ALIDIV 62 6420240k NA NA							
Note: Calibration Inte	Note: Calibration Interval of instruments listed above is one year.							

Test Item	Radiated Emission						
Test Site	966 chamber1 / (03CH01-WS)						
Tested Date	Jul. 05, 2021						
Instrument	Brand Model No. Serial No. Calibration Date Calibration Unt						
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022		
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021		
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021		
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022		
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021		
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021		
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022		
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021		
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021		
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021		
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021		
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021		
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021		
Measurement Software	AUDIX	e3	6.120210g	NA	NA		
Note: Calibration Inter	rval of instruments liste	d above is one year.					

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Test Item	RF Conducted					
Test Site	(TH01-WS)					
Tested Date	Jul. 21, 2021					
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022	
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021	
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021	
Note: Calibration Inte	rval of instruments liste	ed above is one year.				

1.5 Test Standards

47 CFR FCC Part 15.247 ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty				
Parameters	Uncertainty			
Bandwidth	±34.130 Hz			
Conducted power	±0.808 dB			
Power density	±0.583 dB			
Conducted emission	±2.715 dB			
AC conducted emission	±2.92 dB			
Radiated emission ≤ 1GHz	±4.32 dB			
Radiated emission > 1GHz	±4.90 dB			

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2 Test Configuration

2.1 Testing Facility

Test Laboratory International Certification Corp.			
Test Site CO01-WS, 03CH01-WS, TH01-WS			
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.		

FCC Designation No.: TW2732FCC site registration No.: 181692

➤ ISED#: 10807A

➤ CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Separating Factor	Test Configuration
Conducted Emissions	LORA	923.3 / 927.5	SF12	2
Radiated Emissions ≤1GHz Radiated Emissions >1GHz	LORA	923.3 / 927.5	SF12	1
Maximum Output Power 6dB bandwidth Power spectral density	LORA	923.3 / 927.5	SF12	1

Note:

The EUT had been tested by following test configurations.

1) Configuration 1: PHIHONG adapter with housing 2

2) Configuration 2: Ktec adapter with housing 2

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3 Transmitter Test Results

3.1 Conducted Emissions

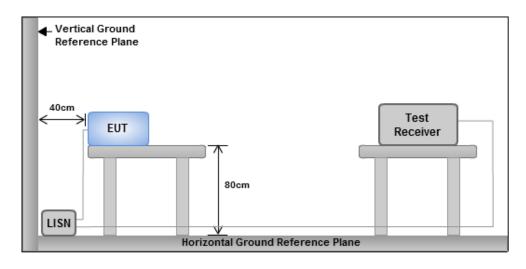
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit					
Frequency Emission (MHz) Quasi-Peak Average					
0.15-0.5 66 - 56 * 56 - 46 *					
0.5-5	56	46			
5-30 60 50					
Note 1: * Decreases with the logarithm of the frequency.					

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup



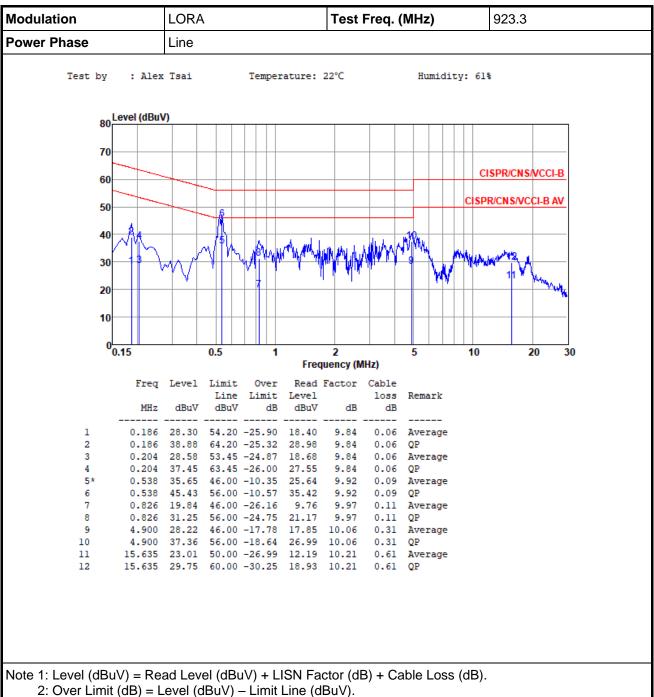
Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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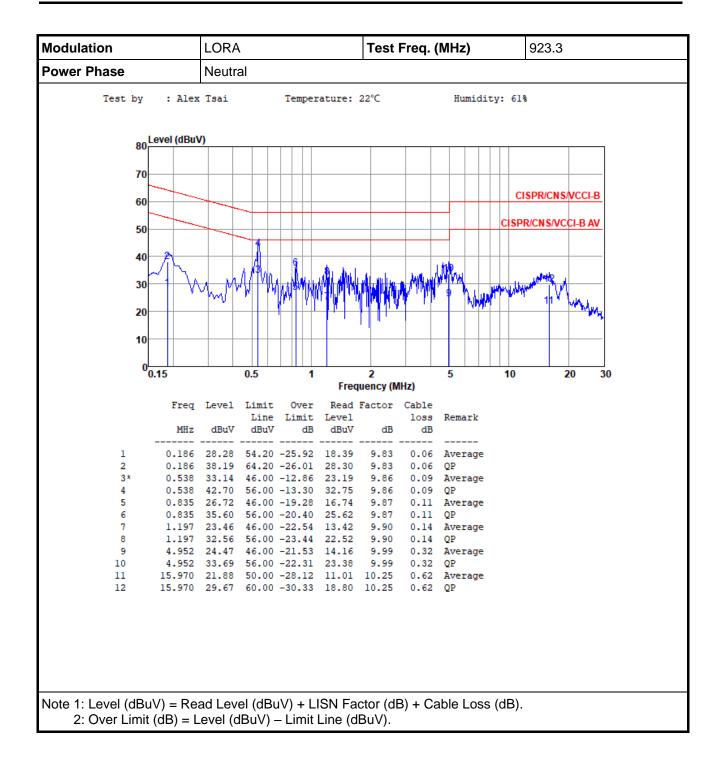


Test Result of Conducted Emissions



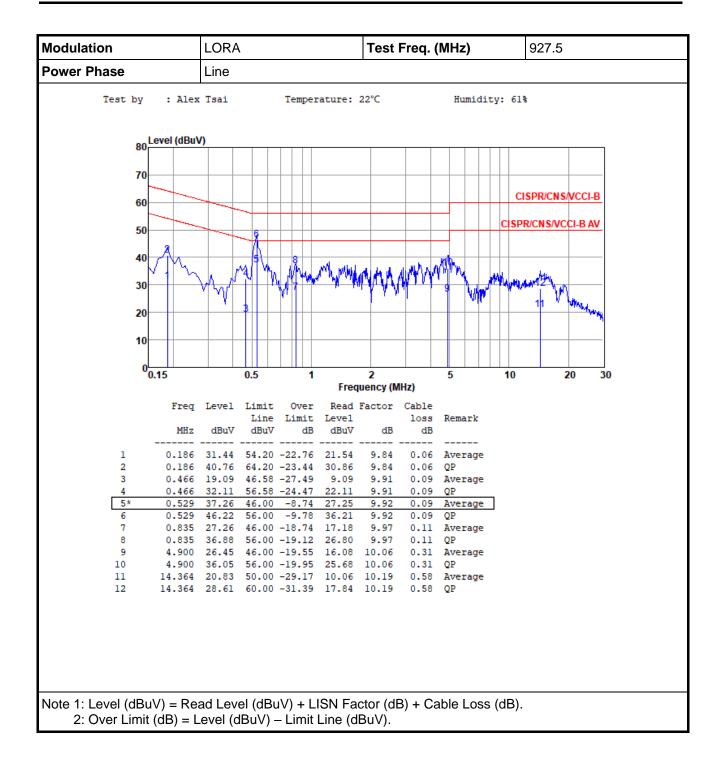
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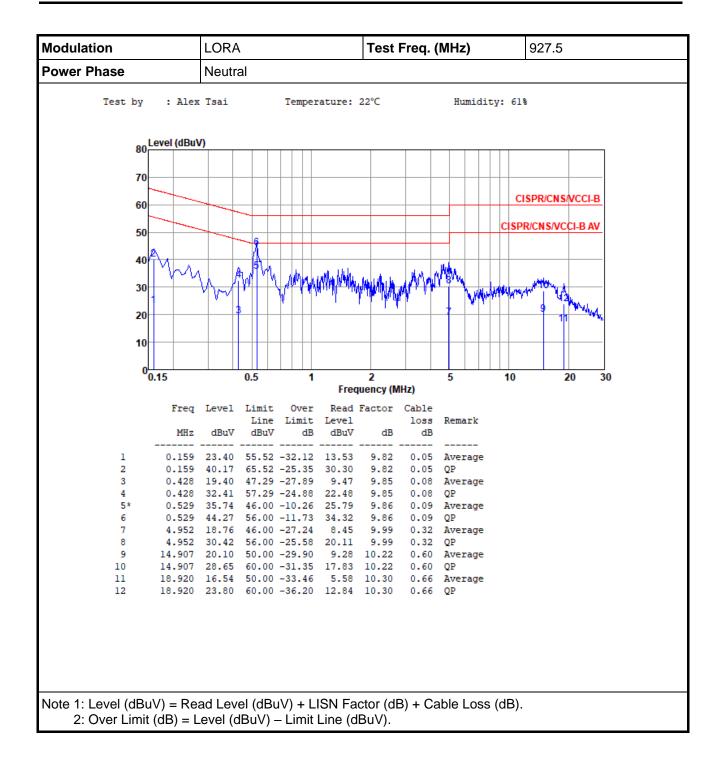
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3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

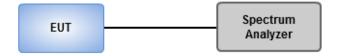
6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup



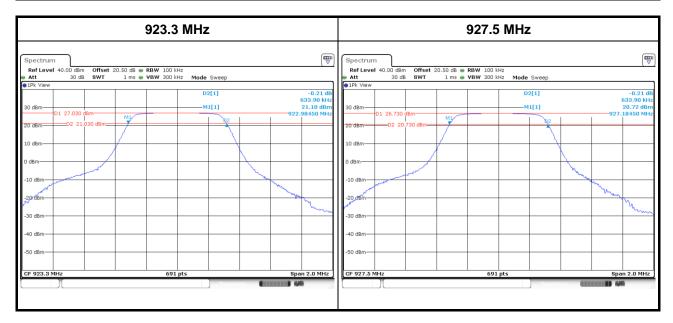
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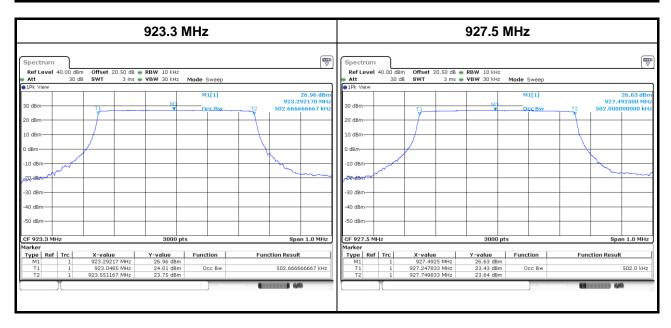
3.2.4 Test Result of 6dB and Occupied Bandwidth

Amalaiant Canalitian	0.490 / 000/	Tootod Dec	Demander
Ambient Condition	24°C / 62%	Tested By	Roger Lu

Modulation / SF	Freq. (MHz)	6dB Bandwidth (kHz)	Limit (kHz)
LORA / 12	923.3	639.9	500
LORA / 12	927.5	639.9	500



Modulation / SF	Modulation / SF Freq. (MHz)	
LORA / 12	923.3	0.503
LORA / 12	927.5	0.502



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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Modulation / SF	Freq. (MHz)	AV Power (mW)	AV Power (dBm)	Limit (dBm)
LORA / 12	923.3	519.996	27.16	30
LORA / 12	927.5	490.9079	26.91	30

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3.4 Power Spectral Density

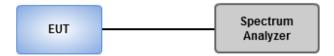
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- 1. Set the RBW = 3 kHz, VBW = 10 kHz.
- 2. Detector = RMS, Sweep time = auto couple.
- 3. Sweep time = auto couple.
- 4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 5. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup



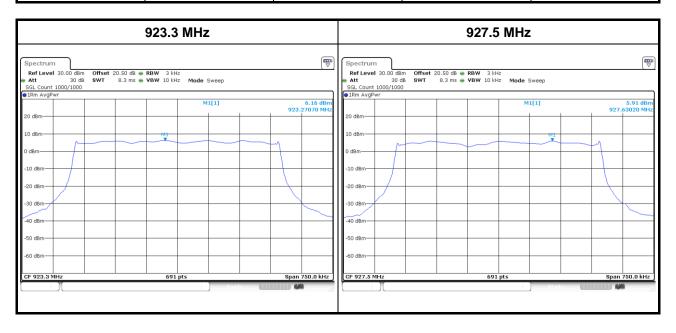
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3.4.4 Test Result of Power Spectral Density

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Modulation / SF	Freq. (MHz)	PSD (mW)	PSD (dBm)	Limit (dBm)
LORA / 12	923.3	4.1	6.16	8
LORA / 12	927.5	3.9	5.91	8



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3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit						
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)			
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300			
0.490~1.705	24000/F(kHz)	33.8 - 23	30			
1.705~30.0	30	29	30			
30~88	100	40	3			
88~216	150	43.5	3			
216~960	200	46	3			
Above 960	500	54	3			

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2**:

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

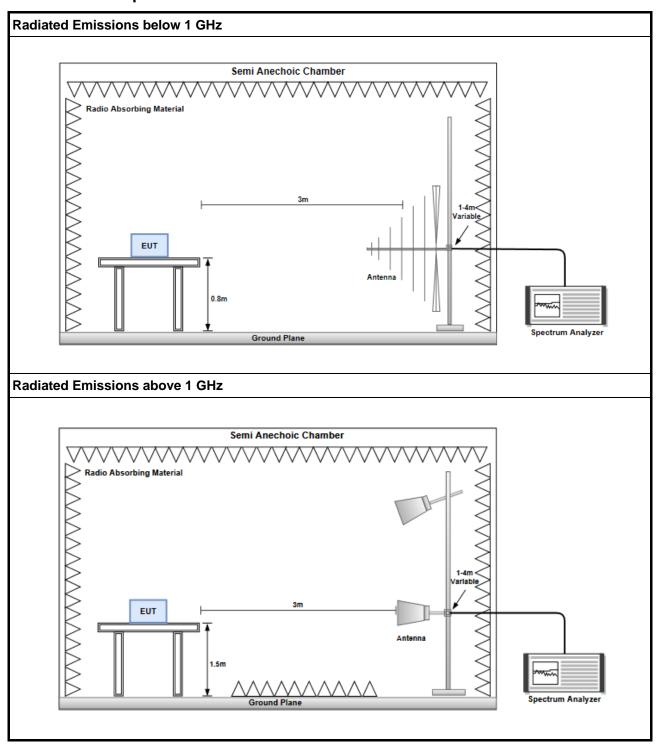
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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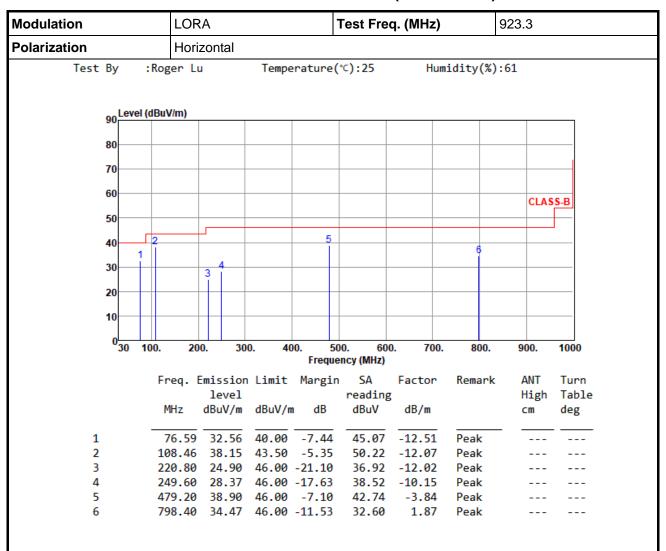
3.5.3 Test Setup



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3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

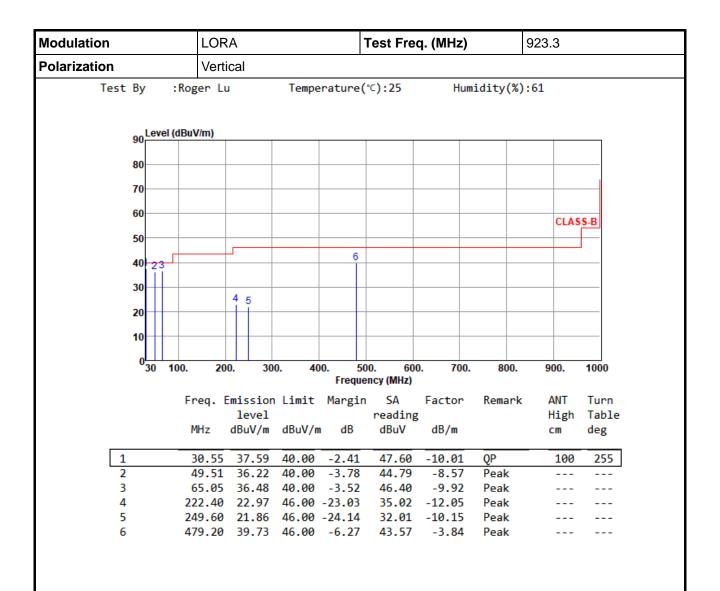
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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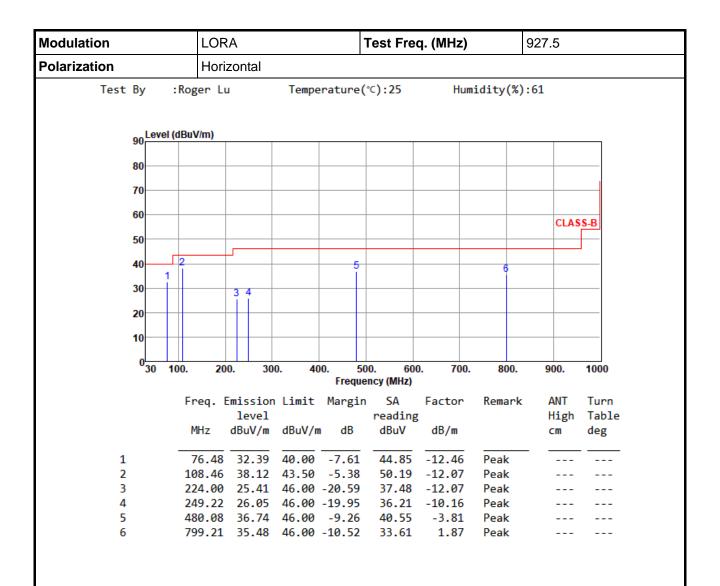
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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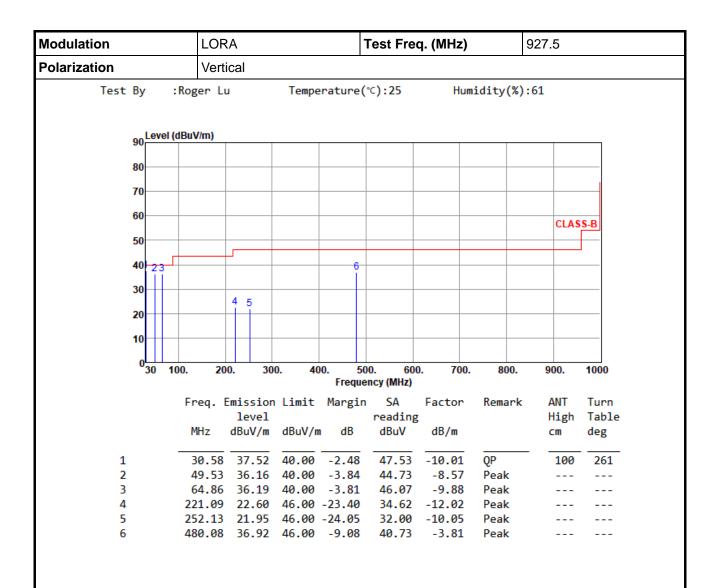
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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*Factor includes antenna factor, cable loss and amplifier gain

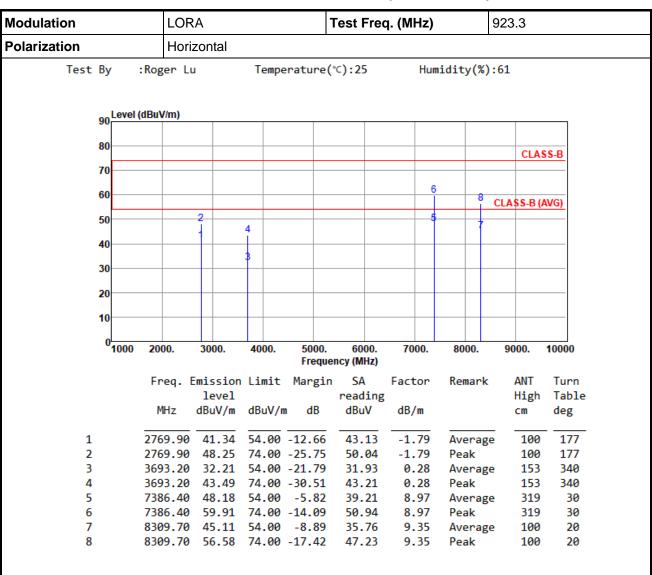
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)



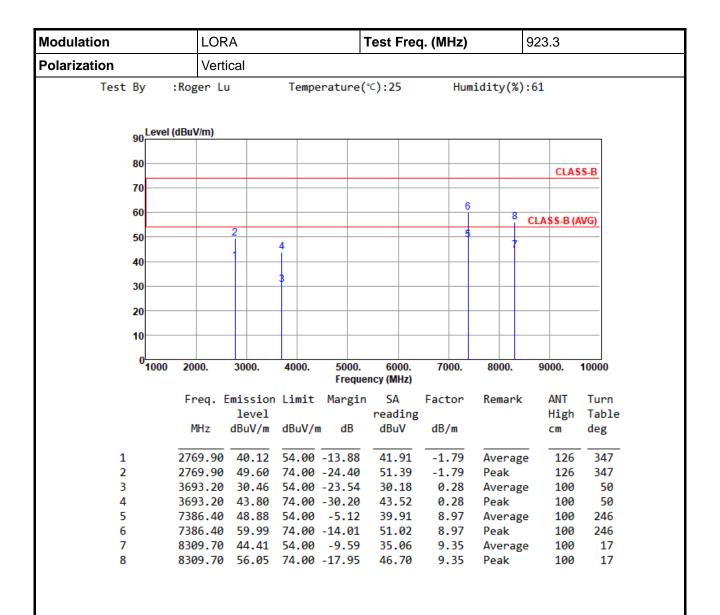
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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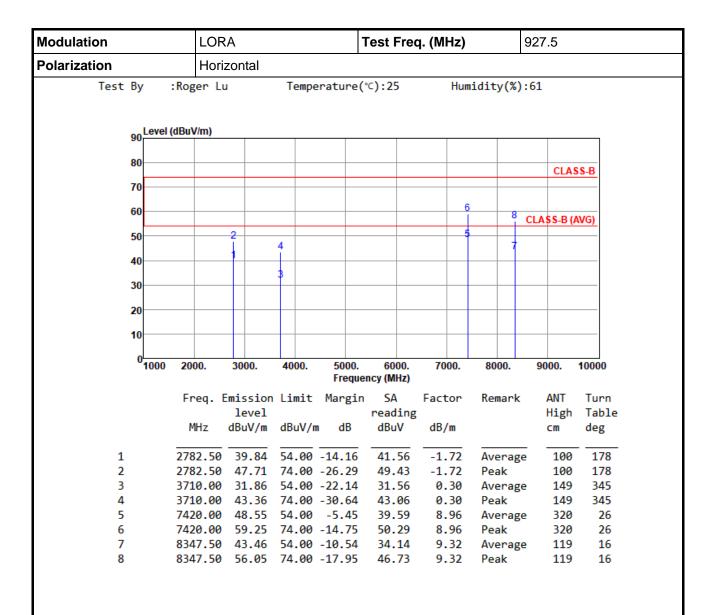


*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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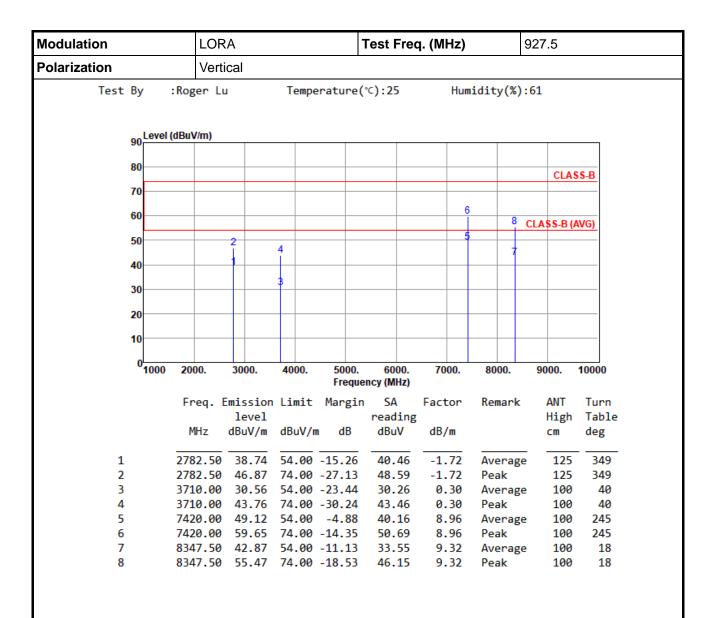


*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

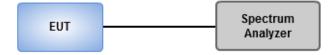
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

3.6.3 Test Setup

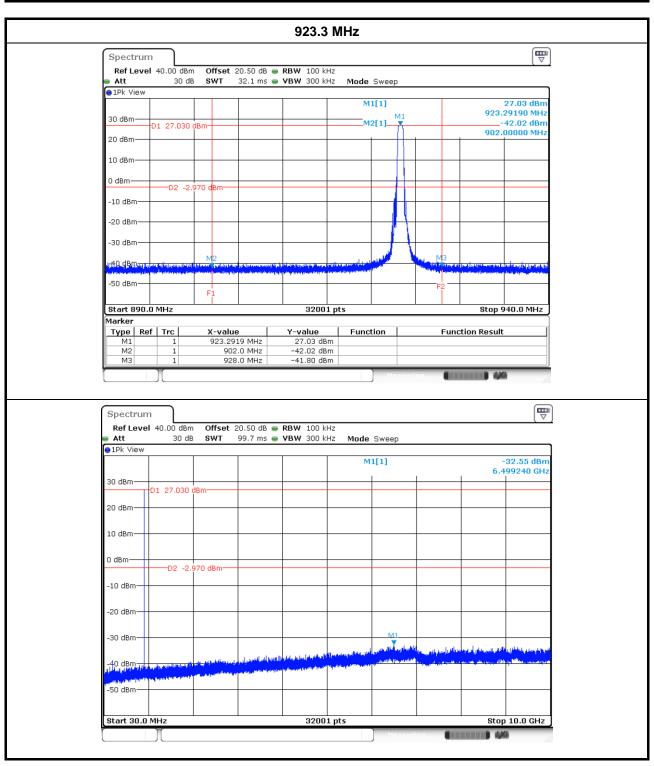


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3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

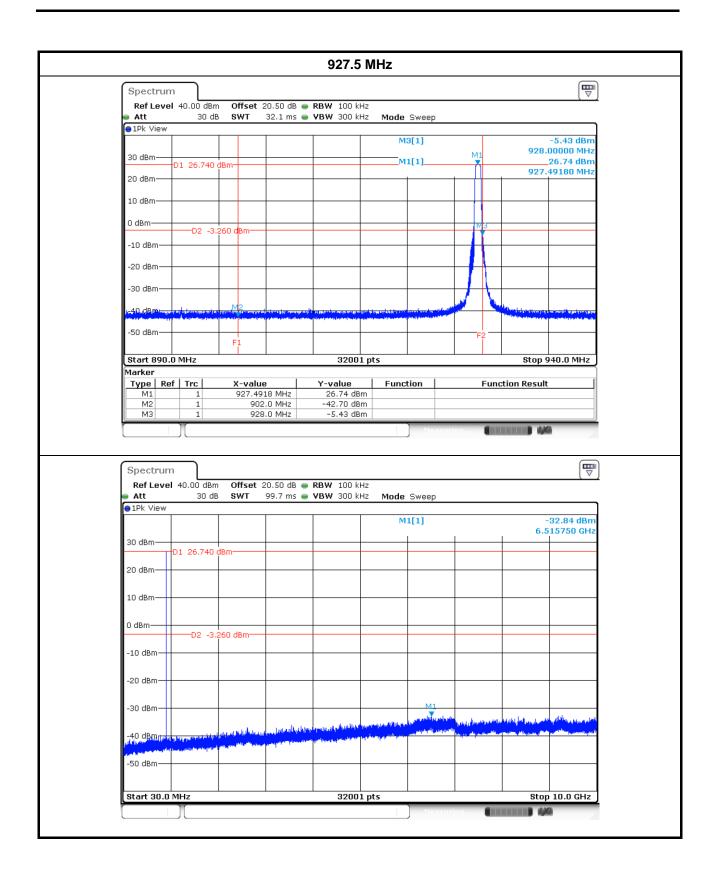
Ambient Condition24°C / 62%Tested ByRoger Lu



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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0345

Email: ICC Service@icertifi.com.tw

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