



# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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## 1 Cover Page

# TEST REPORT

<b>Application No. :</b>	SHEM1308001631HS
<b>Applicant:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>FCC ID:</b>	ZT5-ARM215021
<b>Equipment Under Test (EUT):</b> <b>NOTE:</b> The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	TX: Remoto Controller RX: Massager
Brand Name:	LELO
Model:	TX: LELO Insigia-V3 RX: IDA, Lyla, Oden, Tiani
<b>Standards:</b>	FCC PART 15 Subpart C Section 15.249: 2012 ANSI C63.10: 2009
<b>Date of Receipt:</b>	August 22, 2013
<b>Date of Test:</b>	September 17, 2013
<b>Date of Issue:</b>	September 22, 2013
<b>Test Result :</b>	<b>PASS *</b>

\* In the configuration tested, the EUT complied with the standards specified above.



**Tony Wu**  
**E&E Section Manager**

**SGS-CSTC (Shanghai) Co., Ltd.**

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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**2 Version**

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	September 22, 2013	/	Original

<b>Authorized for issue by:</b>			
<b>Engineer</b>		Eddy Zong _____ <b>Print Name</b>	
<b>Clerk</b>		Susie Liu _____ <b>Print Name</b>	
<b>Reviewer</b>		Kenx Xu _____ <b>Print Name</b>	

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### 3 Test Summary

Test Item	FCC Requirement	IC Requirement	Test method	Result
Antenna Requirement	Section 15.203	RSS-Gen 7.1.2	ANSI C63.10 (2009)	PASS
AC Power Line Conducted Emission	Section 15.207	RSS-Gen Section 7.2.4	ANSI C63.10 (2009)	N/A
Field Strength of the Fundamental Signal	Section 15.249 (a)	RSS 210 A 2.9 (a)	ANSI C63.10 (2009)	PASS
Spurious Emissions	Section 15.249 (a)/15.209	RSS 210 A 2.9 (a)	ANSI C63.10 (2009)	PASS
20dB Occupied Bandwidth	Section 15.215 (c)	-----	ANSI C63.10 (2009)	PASS
99% Occupied Bandwidth	-----	RSS-Gen section 4.6.1	RSS-Gen section 4.6.1	PASS

N/A: Not applicable

This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



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## 5 General Information

### 5.1 Client Information

<b>Applicant:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>Address of Applicant:</b>	3-5/F No77 SuHong Middle Road SIP Jiangsu China
<b>Manufacturer:</b>	Suzhou Armocon Technology Co.,Ltd.
<b>Address of Manufacturer:</b>	3-5/F No77 SuHong Middle Road SIP Jiangsu China
<b>Factory:</b>	Not supplied by the client.
<b>Address of Factory:</b>	Not supplied by the client.

### 5.2 General Description of EUT

<b>Product Name</b>	TX: Remoto Controller RX: Massager
<b>Brand Name:</b>	LELO
<b>Model No:</b>	TX: LELO Insigia-V3 RX: IDA, Lyla, Oden, Tiani
<b>Power Supply:</b>	"AAA" Battery Size 2*1.5V(a new battery is used during the measurement)

### 5.3 Technical Specifications:

<b>Operation Frequency:</b>	2421MHz
<b>Modulation Technique:</b>	MSK

### 5.4 Support equipments for Testing

The EUT has been tested independently.

### 5.5 Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 kPa
<b>Test mode:</b>	
Transmitting mode:	Keep the EUT in continuously transmitting mode.

## 5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

## 5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

## 5.8 Deviation from Standards

None.

## 5.9 Abnormalities from Standard Conditions

None.

## 5.10 Other Information Requested by the Customer

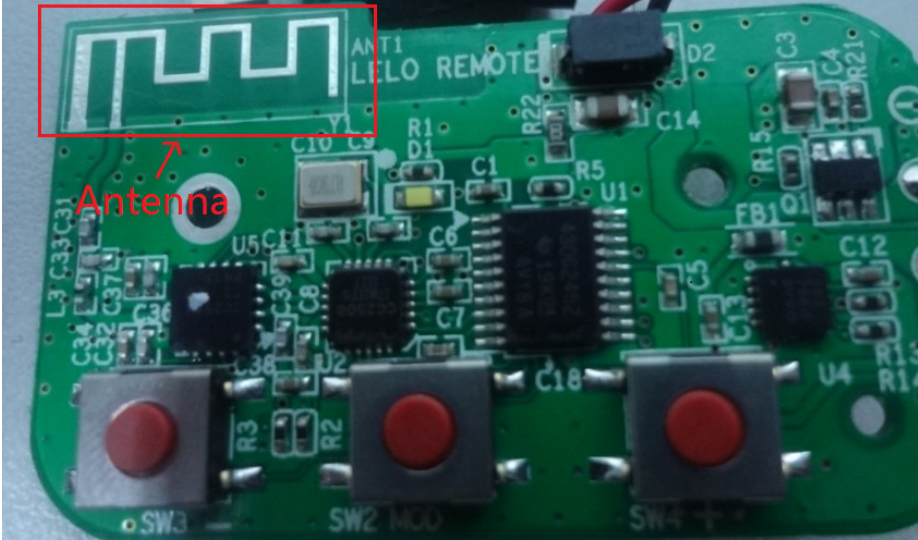
None.

### 5.11 Test Instruments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2014-02-22
2	Horn Antenna	SCHWARZBEC K	BBHA9120D	9120D-679	2014-03-06
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2014-06-01
4	ANTENNA	SCHWARZBEC K	VULB9168	9168-313	2014-03-06
5	Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170373	2014-03-06
6	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2013-10-08
7	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY—2009P	--	2013-10-08
8	CLAMP METER	FLUKE	316	86080010	2014-06-01
9	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2013-10-08
11	High-low temperature cabinet	Shanghai YuanZhen	GW2050	--	2014-06-01
12	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT1800.0/2000.0-0.2/40-5SSK	11	2014-06-01
13	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/880.0-0.2/40-5SSK	9	2014-06-01
14	High pass Filter	FSCW	HP 12/2800-5AA2	19A45-02	2014-06-01
15	Low noise amplifier	TESEQ	LNA6900	70133	2014-02-22
16	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2014-02-22
17	Line impedance stabilization network	SCHWARZBEC K	NSLK8127	8127-490	2014-02-22

## 6 Test results and Measurement Data

### 6.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203
<p>15.203 requirement:</p> <p>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, 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.</p>	
<b>EUT Antenna:</b>	
<p>The antenna is integrated on the main PCB and no consideration of replacement.</p>	





## 6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150KHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.</li> </ol>		

<p>Test Setup:</p>	
<p>Instruments Used:</p>	<p>Refer to section 5.12 for details</p>
<p>Test Mode:</p>	<p>N/A</p>
<p>Test Results:</p>	<p>N/A</p>

**Measurement Data:**

This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.

### 6.3 Field Strength of the Fundamental Signal

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209				
Test Method:	ANSI C63.10: 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	2421MHz	94.0		Average Value	
		114.0		Peak Value	
Test Setup:					

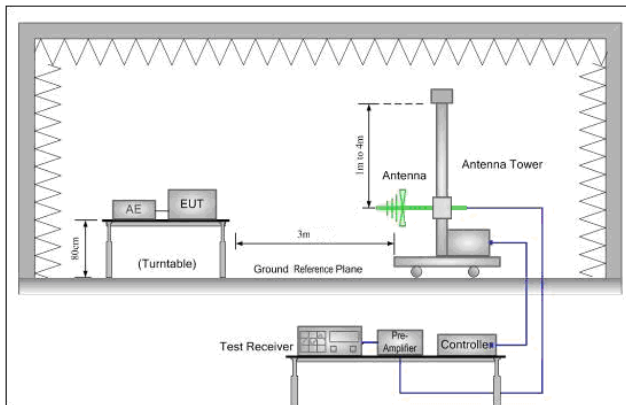


Figure 1. 30MHz to 1GHz

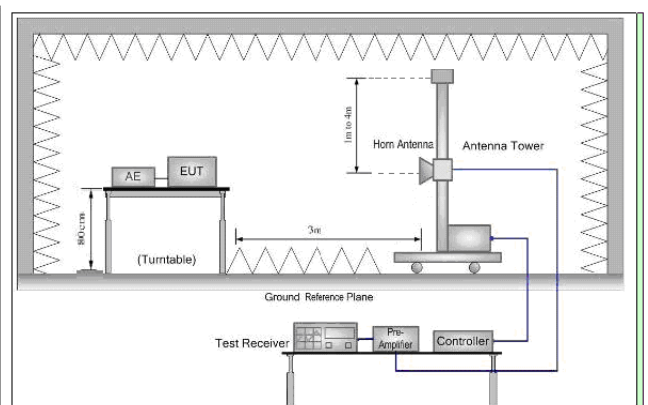


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>g. The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, Only the test worst case</li> </ol>
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	mode is recorded in the report. h. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.12 for details
Test Mode:	Transmitting mode
Test Results:	Pass

## 6.3.1 Measurement Data

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
2421	4.80	27.60	61.10	93.50	94.00	0.50	Horizontal
2421	4.80	27.60	58.80	91.20	94.00	2.80	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Loss. The basic equation with a sample calculation is as follows:  $\text{Level} = \text{Read Level} + \text{Antenna Factor} + \text{Cable Loss}$ .
- 2) Because of PK values below the AV limit, so do not perform AV test.



## 6.4 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209				
Test Method:	ANSI C63.10: 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m )	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F (kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F (kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	Above 1GHz	500	54.0	Quasi-peak	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

**Test Setup:**

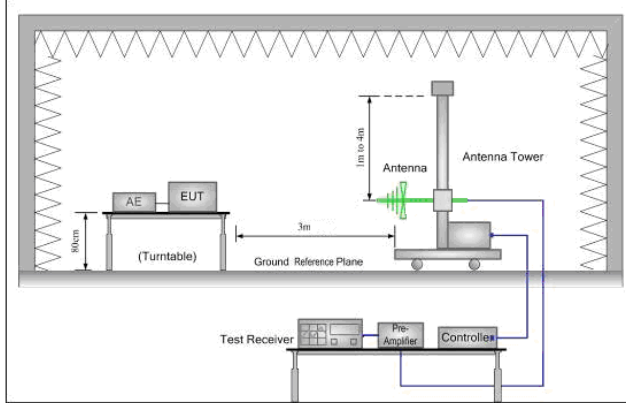


Figure 1. 30MHz to 1GHz

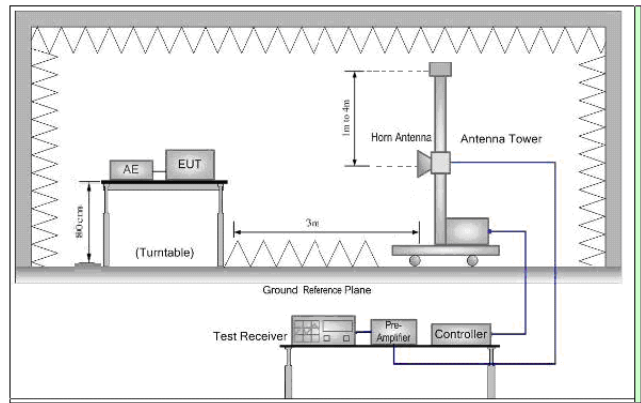


Figure 2. Above 1 GHz

**Test Procedure:**

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- Repeat above procedures until all frequencies measured was complete.

**Instruments Used:**

Refer to section 5.12 for details

**Test Mode:**

Transmitting mode

**Test Results:**

Pass

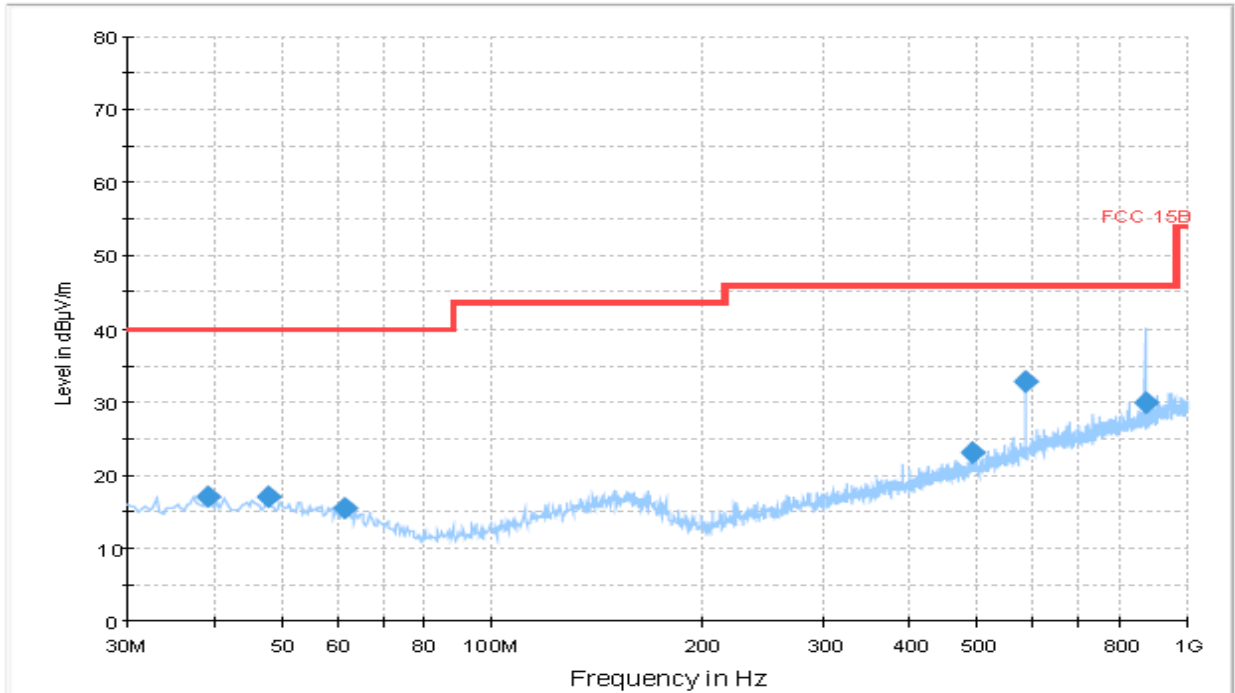
### 6.4.1 Measurement Data

#### 6.4.1.1 Spurious Emissions

**30MHz~1GHz**

Horizontal::

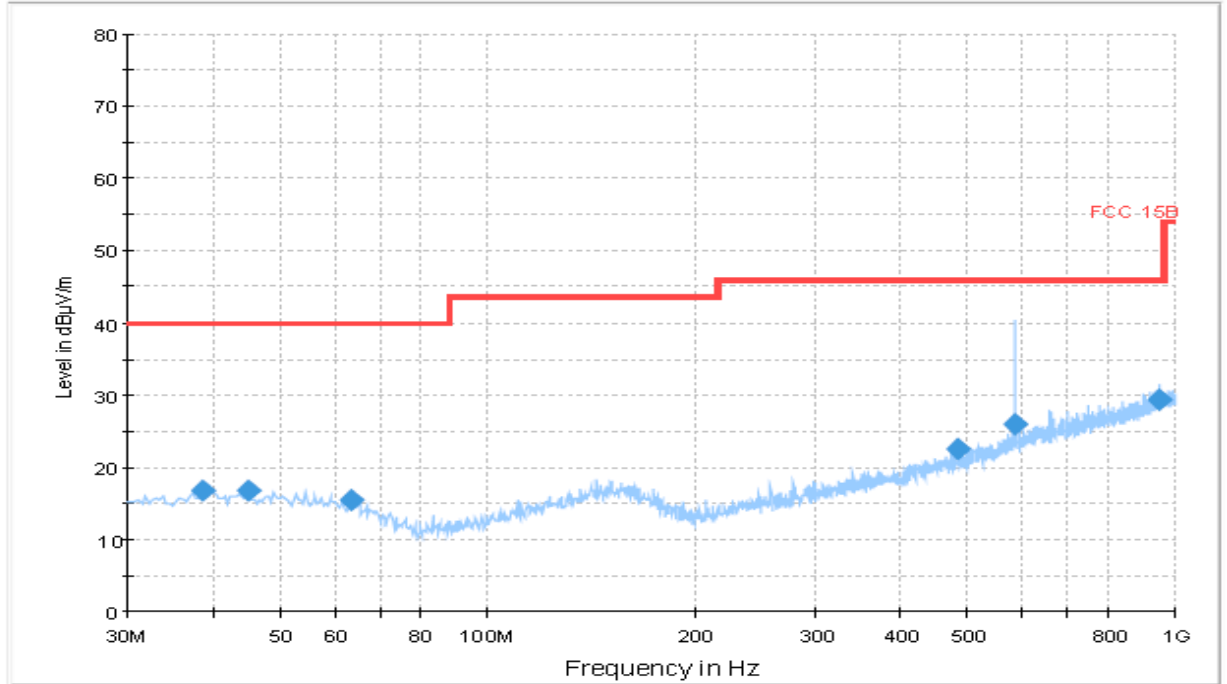
FCC15 B RE 30M-1 GHz



Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)
39.312000	17.1	1000.000	120.000	200.0	H	134.0	-9.0	22.9
47.848000	17.0	1000.000	120.000	100.0	H	164.0	-9.3	23.0
61.816000	15.6	1000.000	120.000	100.0	H	223.0	-10.4	24.4
491.720000	23.0	1000.000	120.000	100.0	H	0.0	-4.2	23.0
584.973760	32.8	1000.000	120.000	150.0	H	214.0	-2.2	13.2
869.089920	29.9	1000.000	120.000	183.0	H	50.0	2.1	16.1

Vertical:

FCC15 B RE 30M-1GHz



Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)
38.536000	16.7	1000.000	120.000	200.0	V	84.0	-9.1	23.3
45.132000	16.8	1000.000	120.000	100.0	V	301.0	-9.3	20.0
63.368000	15.4	1000.000	120.000	100.0	V	0.0	-10.6	24.6
483.960000	22.5	1000.000	120.000	100.0	V	80.0	-4.3	23.5
585.268320	26.0	1000.000	120.000	100.0	V	46.0	-2.1	20.0
945.680000	29.5	1000.000	120.000	100.0	V	348.0	3.2	16.5





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## Peak Detector Measurement: Above 1GHz

Frequency (MHz)	Antenna	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Original Receiver Reading (dBuV)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2420.94	H	27.60	4.80	NA	61.10	32.40	93.50	94.00	0.50
2420.93	V	27.60	4.80	NA	58.80	32.40	91.20	94.00	2.80
4842.78	H	31.60	6.90	-43.90	56.52	-5.40	51.12	54.00	2.28
7265.19	H	35.50	8.10	-43.80	47.35	-0.20	47.16	54.00	6.84
9686.37	H	38.10	9.80	-42.30	39.73	5.60	45.33	54.00	8.67
2399.78	H	27.3	4.6	-42.7	63.31	-10.8	52.51	54.00	1.49
2484.71	H	27.6	4.8	-42.5	56.69	-10.1	46.59	54.00	7.41
2400.66	V	27.3	4.6	-42.7	59.06	-10.8	48.26	54.00	5.74
2486.50	V	27.6	4.8	-42.5	49.81	-10.1	39.71	54.00	14.29

### Remark:

1. For fundamental emission test, no amplifier is employed.
2. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)
3. Corrected Reading = Original Receiver Reading + Correct Factor
4. Margin = limit – Corrected Reading
5. If the PK reading is lower than AV limit, the AV test can be elided.
6. The shaded data is the fundamental emission.

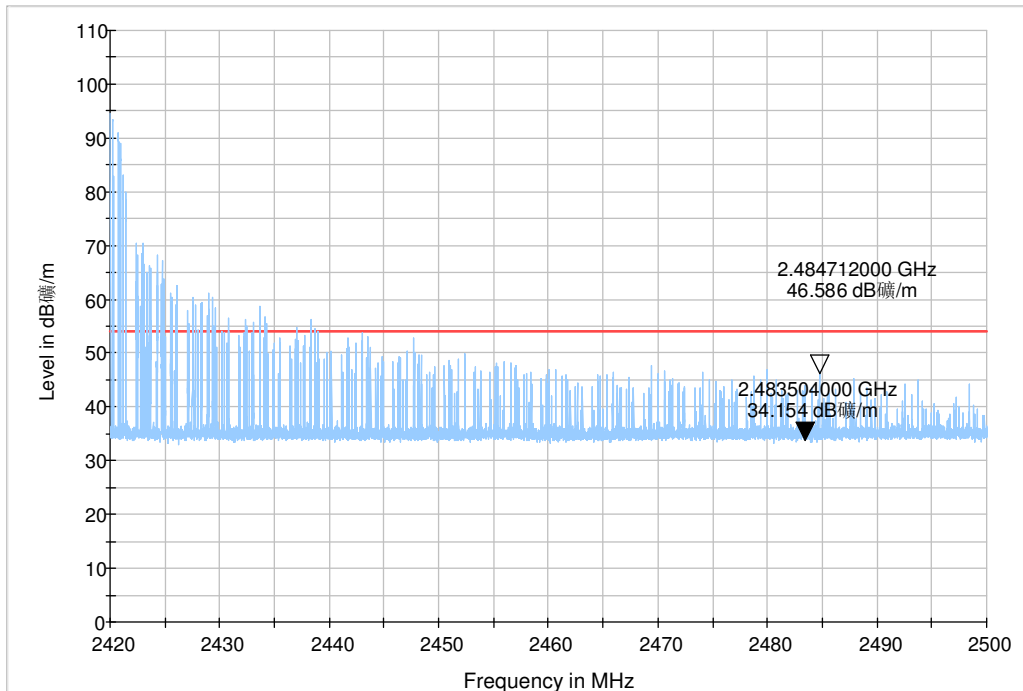
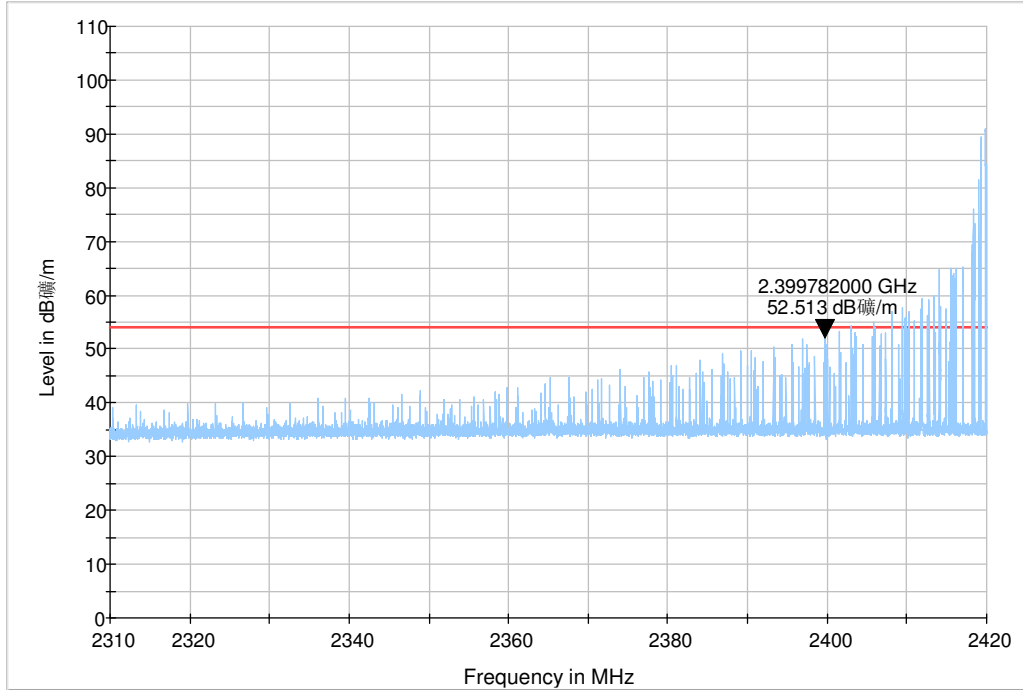


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## Test Plot:

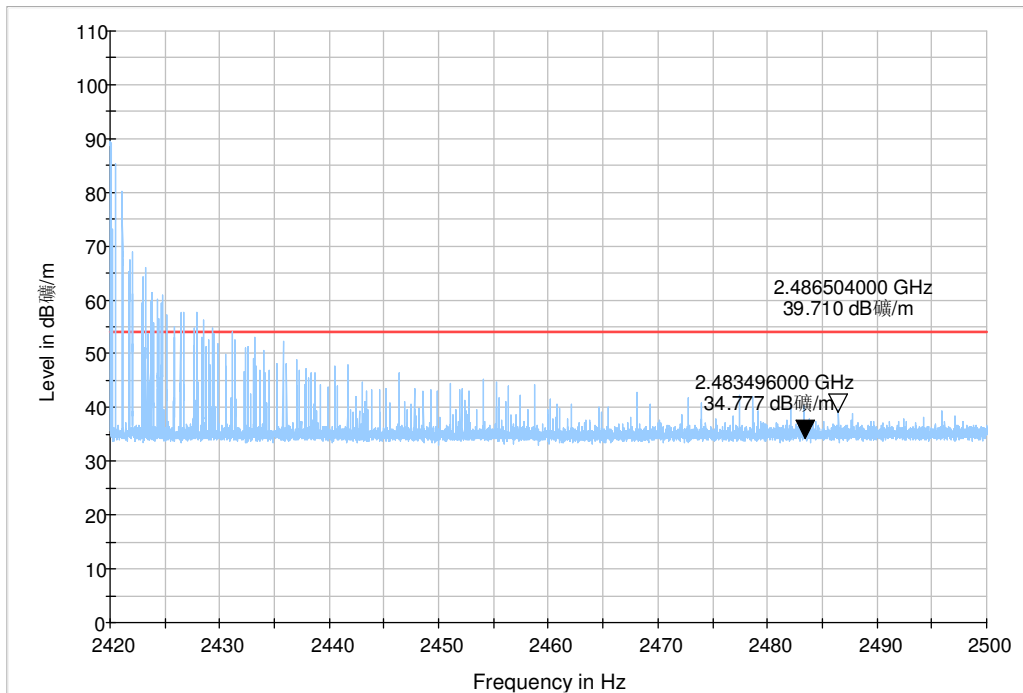
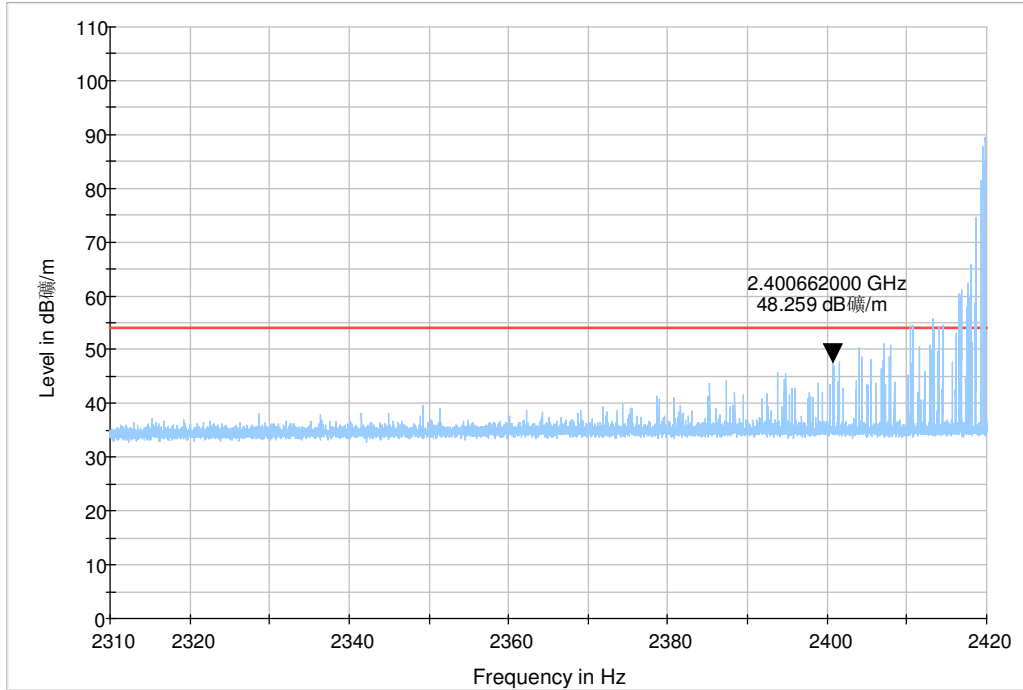
Horizontal, Peak Detector:



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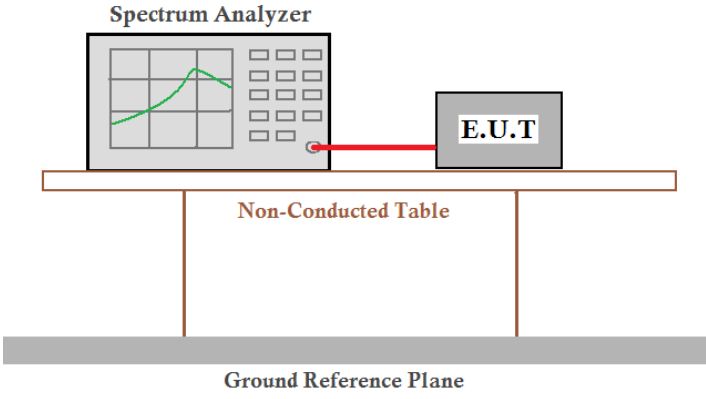


Vertical, Peak Detector:



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## 6.5 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2009
Test Setup:	
Instruments Used:	Refer to section 5.12 for details
Test mode:	Transmitting mode
Limit:	N/A
Test Results:	Pass

Frequency (MHz)	20dB bandwidth (MHz)	80% of permitted band (MHz)	Result
2421	2420.42 ~ 2421.44	2408.35 ~ 2475.15	PASS

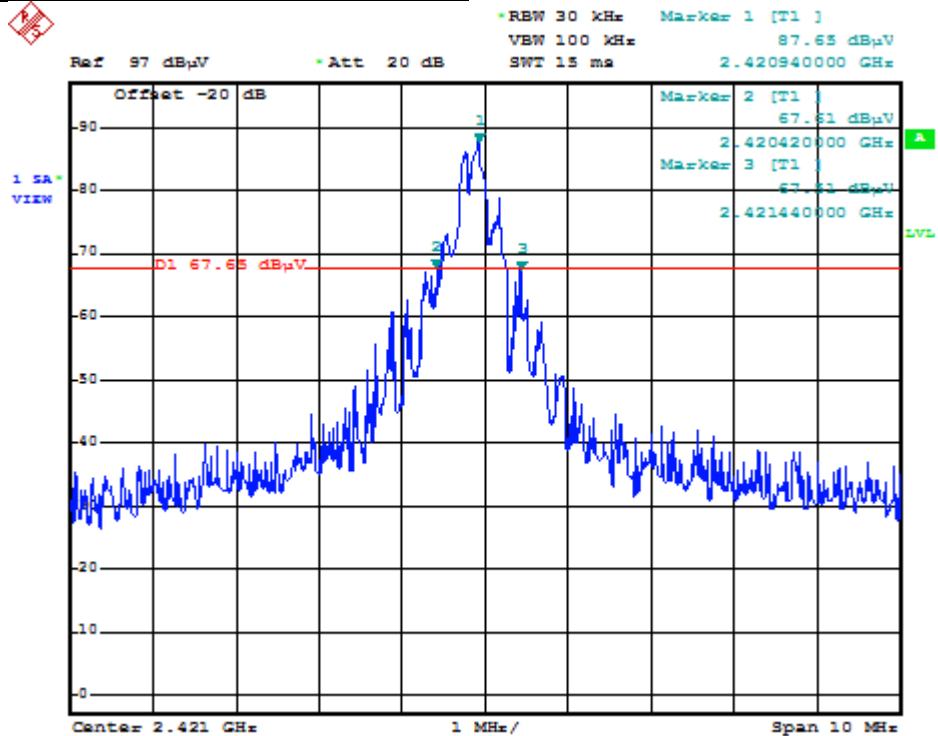


# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Test plot as follows:

Test channel:	Lowest
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## **7 Test Setup Photographs**

Refer to the < Test Setup photos>.

## **8 EUT Constructional Details**

Refer to the < External Photos > & < Internal Photos >.