



Report No.: TW2311203E

Applicant: Hangzhou Roombanker Technology Co., Ltd.

Product: Indoor Siren

Model No.: RBAD-SI1-915,
RBAD-SI1-915(US), RBAD-SI1-915(LA), RBAD-SIx-915:
(X:0~9 or X: A~Z), RBAD-SIx-915-(YY)/ZZZ: (X:0~9 or X:
A~Z), (Y:0~9 or Y: A~Z)/(Z:0~9 or Z: A~Z)

Trademark: Roombanker

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: January 06, 2024

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Hangzhou Roombanker Technology Co., Ltd.
Address: A#801 Wantongcenter, Hangzhou, Zhejiang, China
Telephone: --
Fax: --

1.3 Description of EUT

Product:	Indoor Siren
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.
Address:	No. 640 FengQing Street, Deqing, Huzhou, Zhejiang, China
Trademark:	Roombanker
Model Number:	RBAD-SI1-915
Additional Model Name	RBAD-SI1-915(US), RBAD-SI1-915(LA), RBAD-SIx-915: (X:0~9 or X: A~Z), RBAD-SIx-915-(YY)/ZZZ: (X:0~9 or X: A~Z), (Y:0~9 or Y: A~Z)/(Z:0~9 or Z: A~Z)
Rating:	Input: DC12V, 0.5A
Battery:	DC3.7V, 420mAh Li-ion battery
Power Supply:	Model: KA0601A-1200500EUS Input: 100-240V~, 50/60Hz, 0.2A Max; Output: DC12.0V, 0.5A, 6.0W
Hardware Version:	V1.0
Software Version:	V1.0.0
Serial No.:	89011703278624839026
Operation Frequency:	903MHz-927MHz
Channel Number:	241
Channel Separation:	0.1MHz
Modulation Type:	FSK

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Antenna Designation FPC antenna with gain 1.49dB maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration
2023-11-17 to 2024-01-06

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%
Conducted Emissions Uncertainty =3.6dB
Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy-xing

Print Name: Andy Xing



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m	--	2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

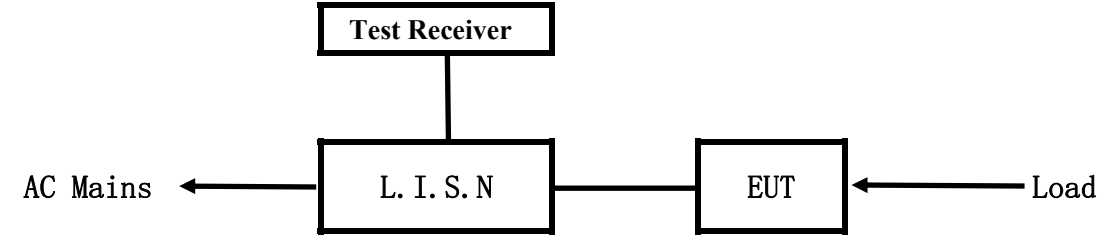
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



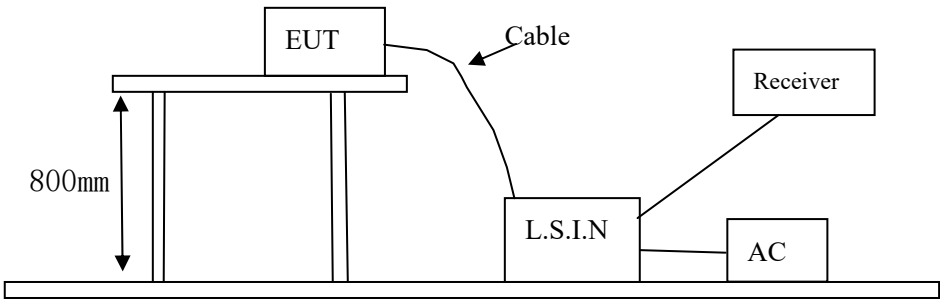
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

241 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

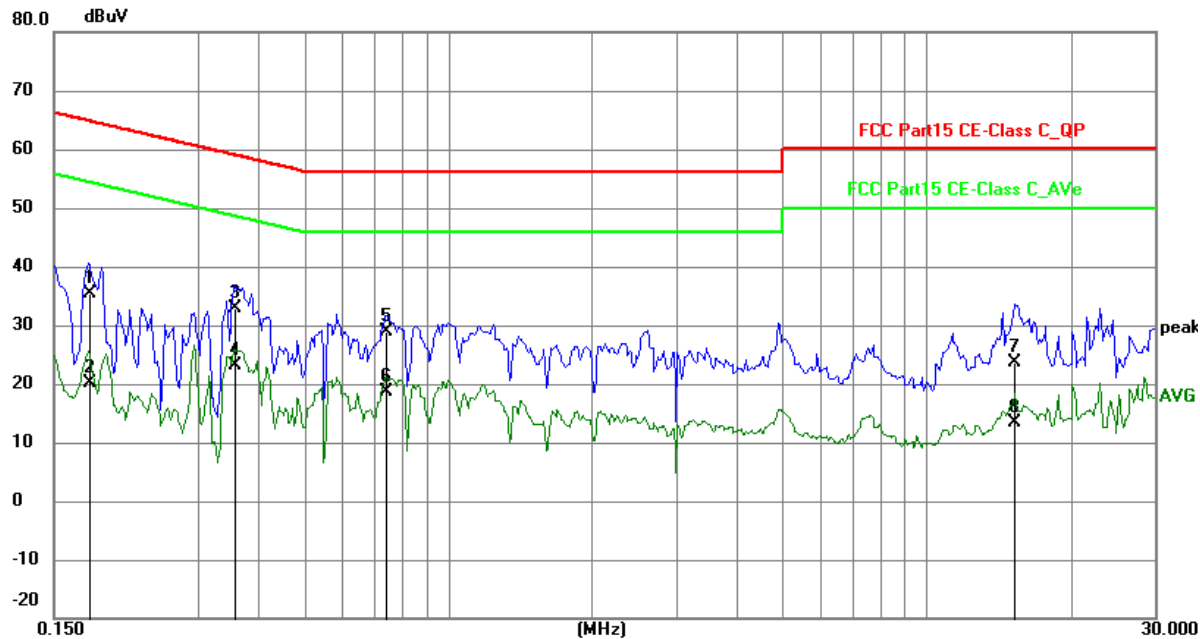
Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)
EUT Operating Environment
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa
EUT set Condition: Charging and Keep Transmitting
Results: Pass
Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	25.52	9.77	35.29	64.61	-29.32	QP	P
2	0.1773	10.26	9.77	20.03	54.61	-34.58	AVG	P
3	0.3567	23.03	9.76	32.79	58.80	-26.01	QP	P
4	0.3567	13.30	9.76	23.06	48.80	-25.74	AVG	P
5	0.7428	19.10	9.78	28.88	56.00	-27.12	QP	P
6	0.7428	8.74	9.78	18.52	46.00	-27.48	AVG	P
7	15.3006	13.27	10.40	23.67	60.00	-36.33	QP	P
8	15.3006	2.93	10.40	13.33	50.00	-36.67	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

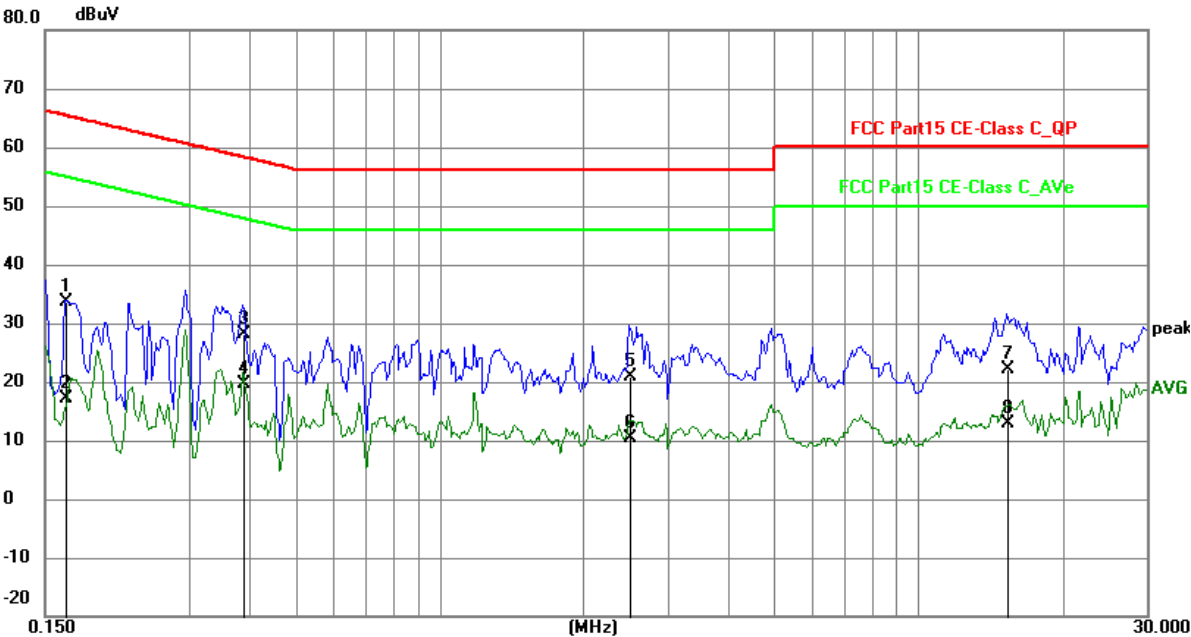
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	23.83	9.77	33.60	65.18	-31.58	QP	P
2	0.1655	7.39	9.77	17.16	55.18	-38.02	AVG	P
3	0.3879	18.46	9.76	28.22	58.11	-29.89	QP	P
4	0.3879	9.83	9.76	19.59	48.11	-28.52	AVG	P
5	2.4900	11.02	9.82	20.84	56.00	-35.16	QP	P
6	2.4900	0.66	9.82	10.48	46.00	-35.52	AVG	P
7	15.3123	11.73	10.40	22.13	60.00	-37.87	QP	P
8	15.3123	2.60	10.40	13.00	50.00	-37.00	AVG	P

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

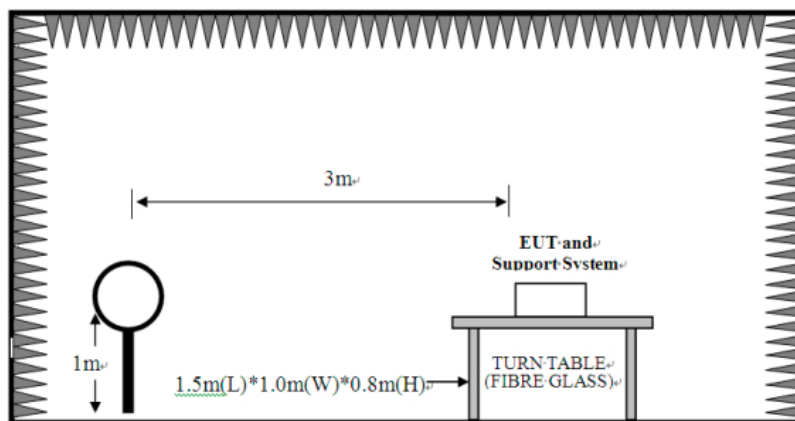
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).
Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



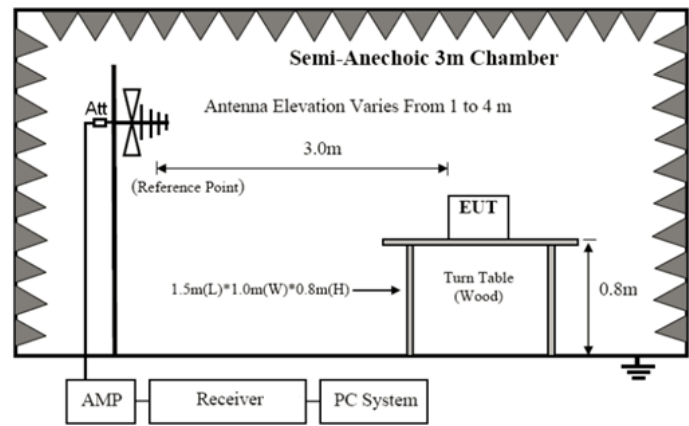
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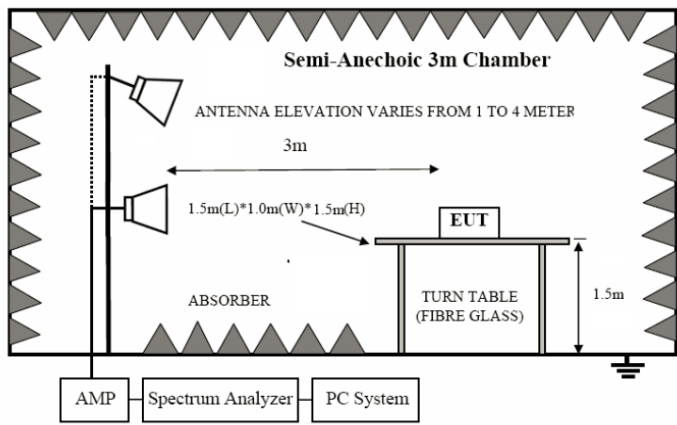
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT
Same as section 5.3 of this report

6.3 EUT Operating Condition
Same as section 5.4 of this report.

6.4 Radiated Emission Limit
All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	mV/m	dBuV/m	uV/m	dBuV/m

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903-927	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-96	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 5. Battery fully charged was used during the test.

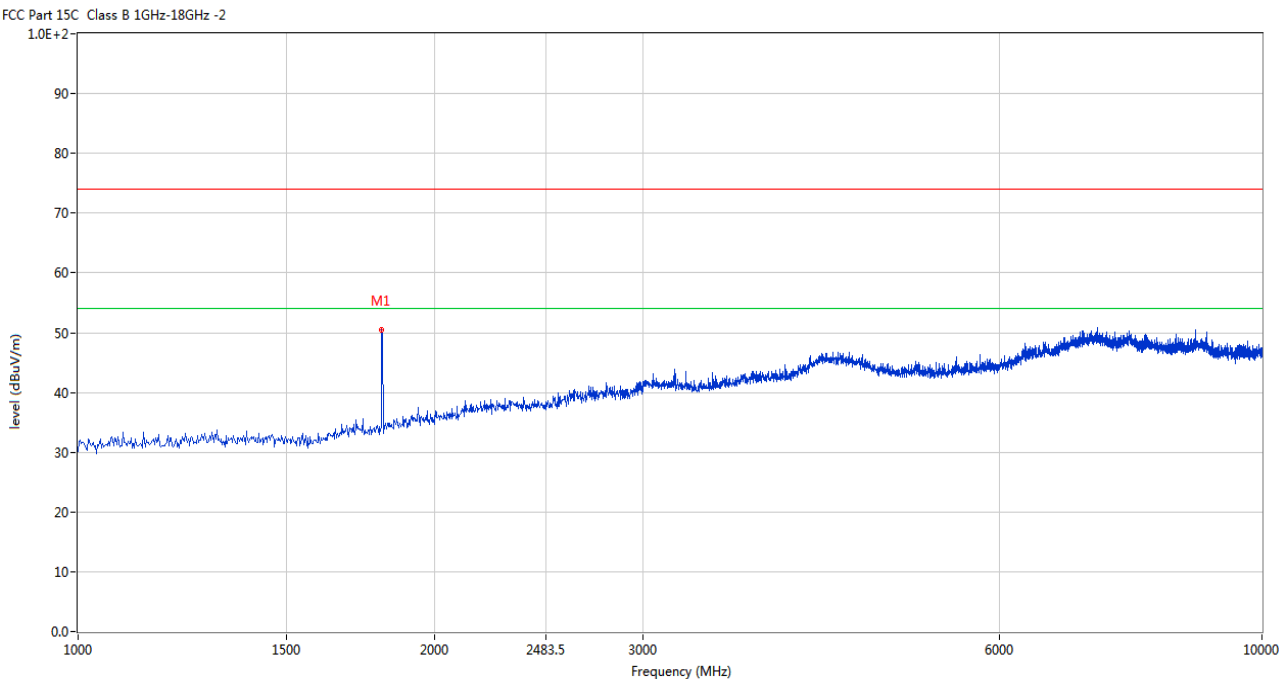
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6.5 Test result
A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-903MHz

Horizontal

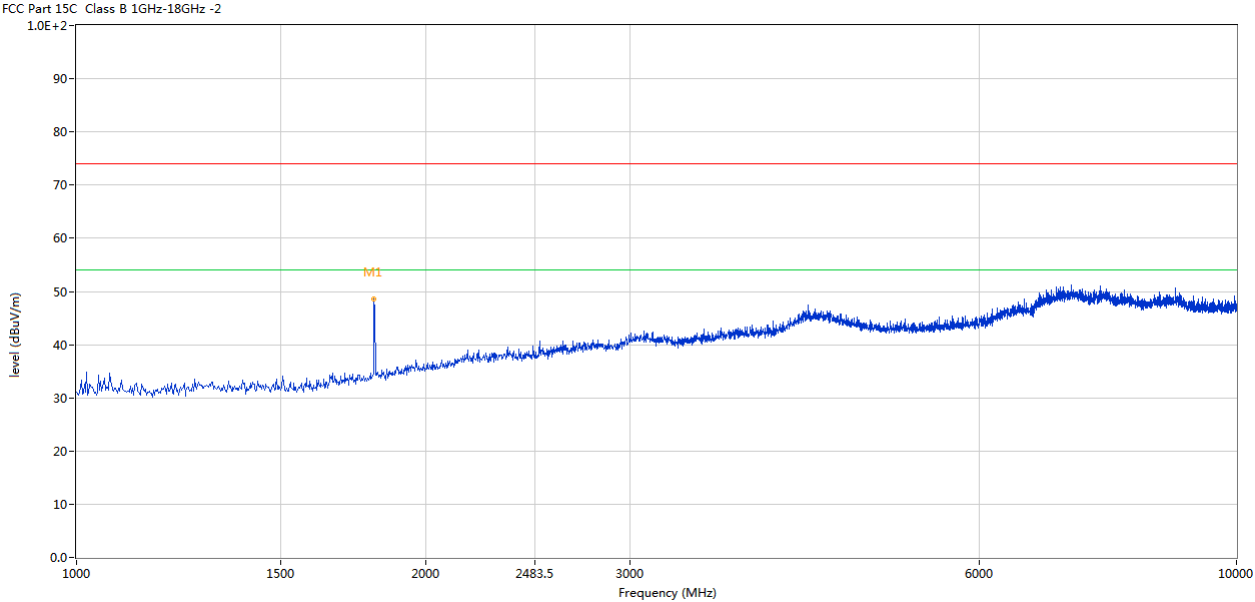


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1805.299	50.41	-6.78	74.0	-23.59	Peak	304.00	100	Horizontal	Pass

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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1805.299	48.64	-6.78	74.0	-25.36	Peak	43.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

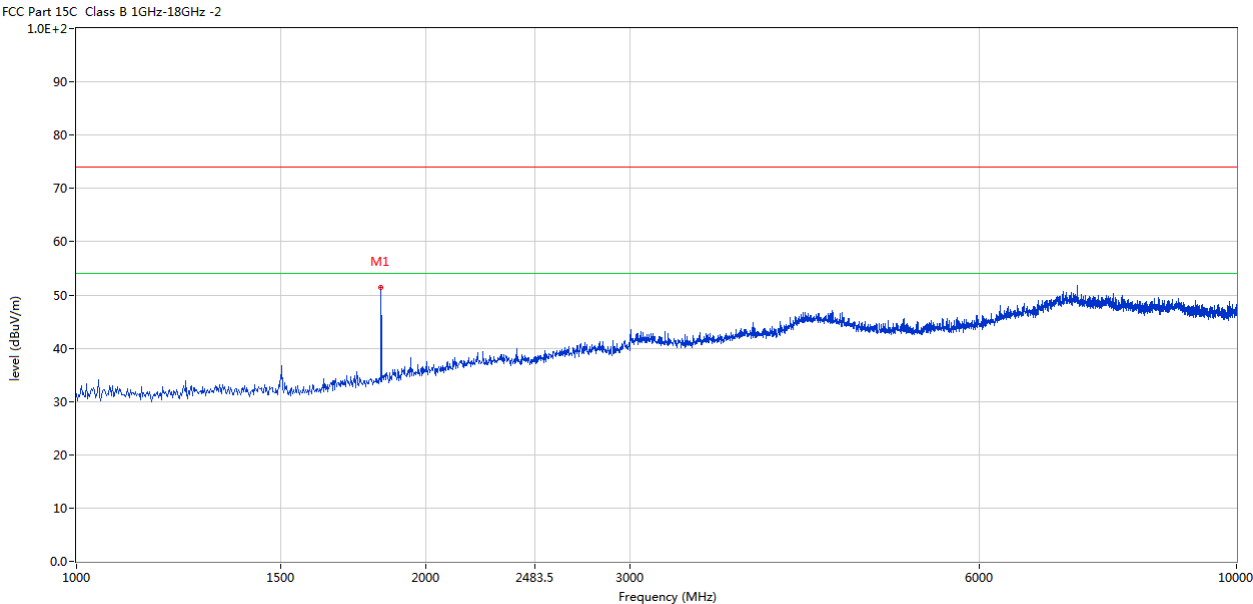
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Please refer to the following test plots for details: Middle Channel-915MHz

Horizontal

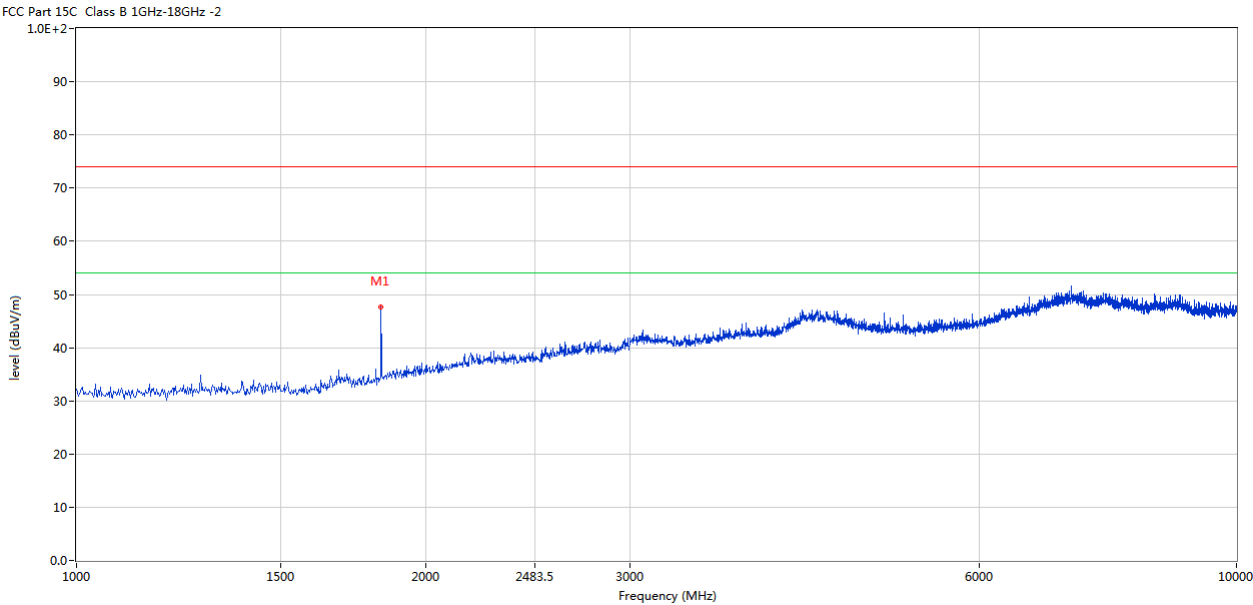


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1830.042	51.38	-6.55	74.0	-22.62	Peak	41.00	100	Horizontal	Pass

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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1830.042	47.59	-6.55	74.0	-26.41	Peak	313.00	100	Vertical	Pass

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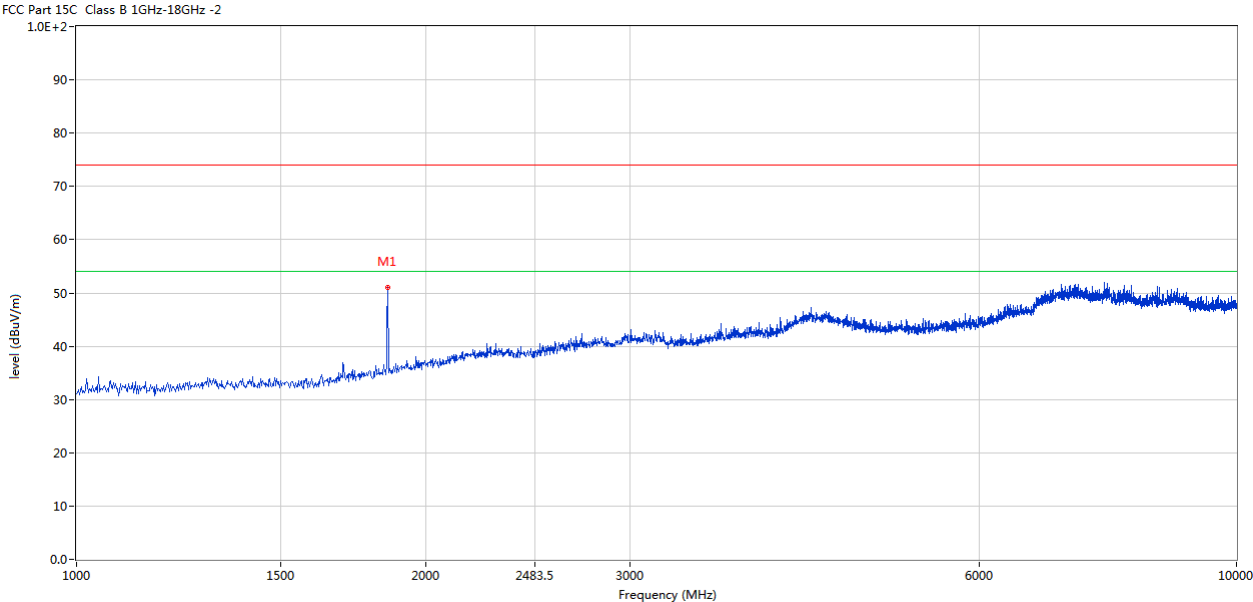
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Please refer to the following test plots for details: High Channel-927MHz

Horizontal

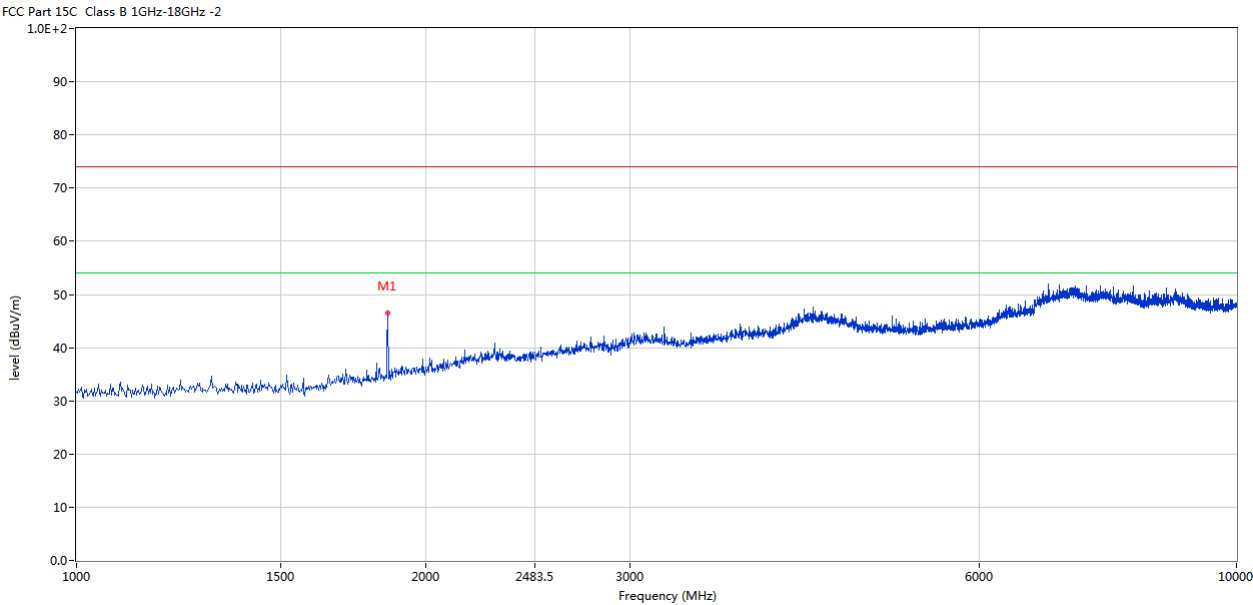


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1854.786	51.03	-6.33	74.0	-22.97	Peak	46.00	100	Horizontal	Pass

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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1854.786	46.54	-6.33	74.0	-27.46	Peak	304.00	100	Vertical	Pass

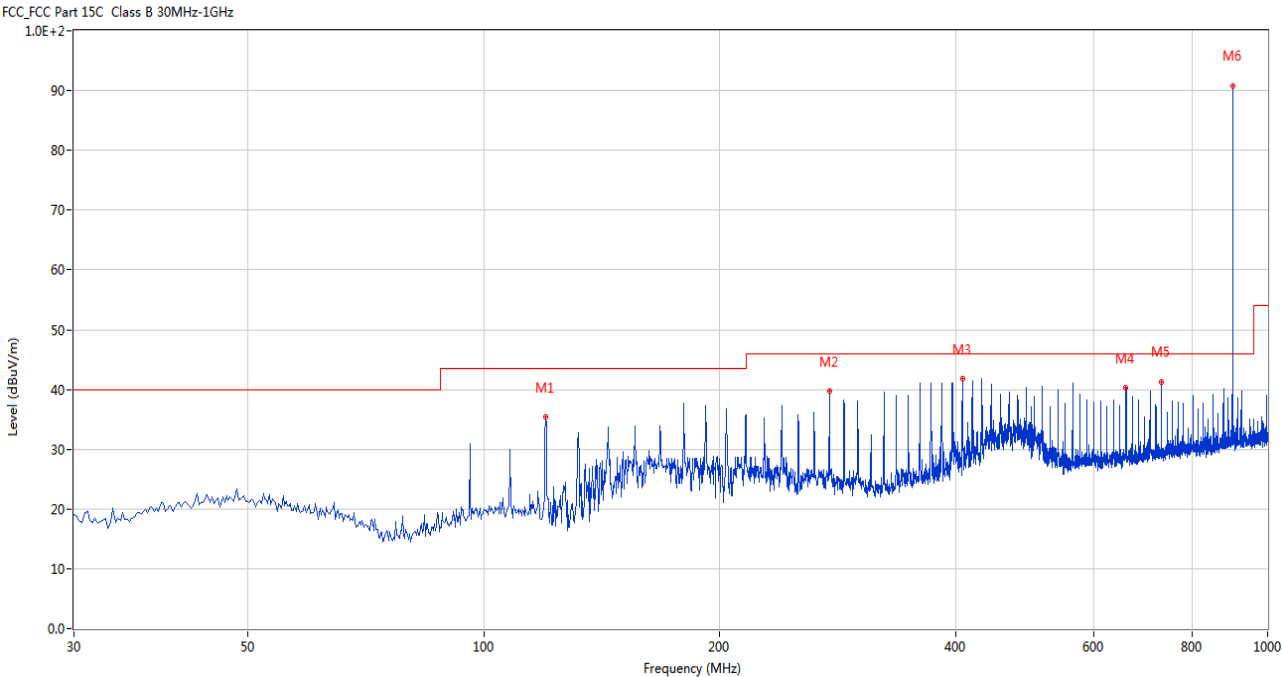
- Note:
- (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
 - (2) Margin=Emission-Limits
 - (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
 - (4) For test purpose, keep EUT continuous transmitting
 - (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
 - (6) the measured PK value less than the AV limit.

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A: General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_11.32.46
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-903M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	119.945	35.36	-15.32	43.5	8.14	Peak	354.00	200	Horizontal	Pass
2	276.076	39.70	-11.63	46.0	6.30	Peak	340.00	200	Horizontal	Pass
3	407.963	42.72	-8.47	46.0	3.28	Peak	319.00	200	Horizontal	Pass
4	659.858	40.33	-4.64	46.0	5.67	Peak	300.00	200	Horizontal	Pass
5	732.104	41.25	-3.66	46.0	4.75	Peak	329.00	200	Horizontal	Pass
6	903.002	90.81	-1.91	46.0	-44.81	Peak	246.00	200	Horizontal	N/A

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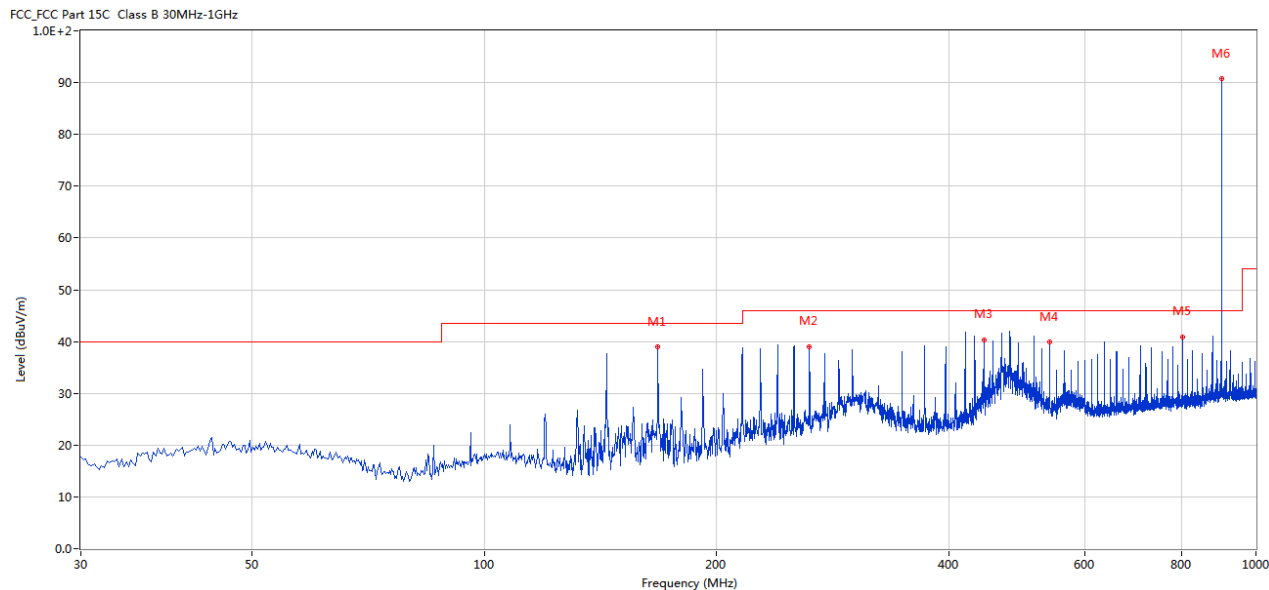
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B: General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_11.36.00
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-903M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBu /m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	167.948	38.93	-16.14	43.5	4.57	Peak	91.00	200	Vertical	Pass
2	263.954	38.06	-11.79	46.0	7.94	Peak	262.00	200	Vertical	Pass
3	444.086	40.39	-7.95	46.0	5.61	Peak	278.00	200	Vertical	Pass
4	540.092	39.90	-6.52	46.0	6.1	Peak	112.00	200	Vertical	Pass
5	804.109	40.87	-3.08	46.0	5.13	Peak	0.00	200	Vertical	Pass
6	903.002	90.72	-1.87	46.0	-44.72	Peak	341.00	200	Vertical	N/A

The report refers only to the sample tested and does not apply to the bulk.

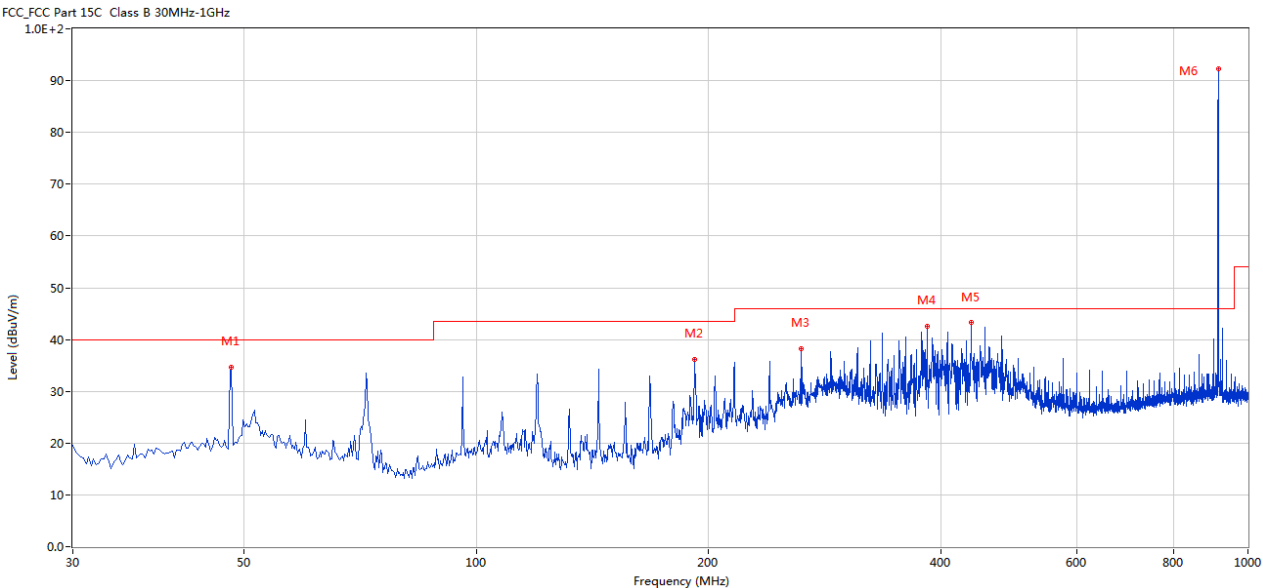
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C: General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_14.04.16
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-915M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.183	34.71	-11.26	40.0	5.29	Peak	37.00	100	Horizontal	Pass
2	191.950	36.15	-14.07	43.5	7.35	Peak	178.00	100	Horizontal	Pass
3	263.954	38.27	-11.79	46.0	7.73	Peak	175.00	100	Horizontal	Pass
4	383.962	42.61	-9.16	46.0	3.39	Peak	214.00	100	Horizontal	Pass
5	438.025	43.40	-8.02	46.0	2.60	Peak	344.00	100	Horizontal	Pass
6	914.997	93.19	-1.75	46.0	-47.19	Peak	34.00	100	Horizontal	N/A

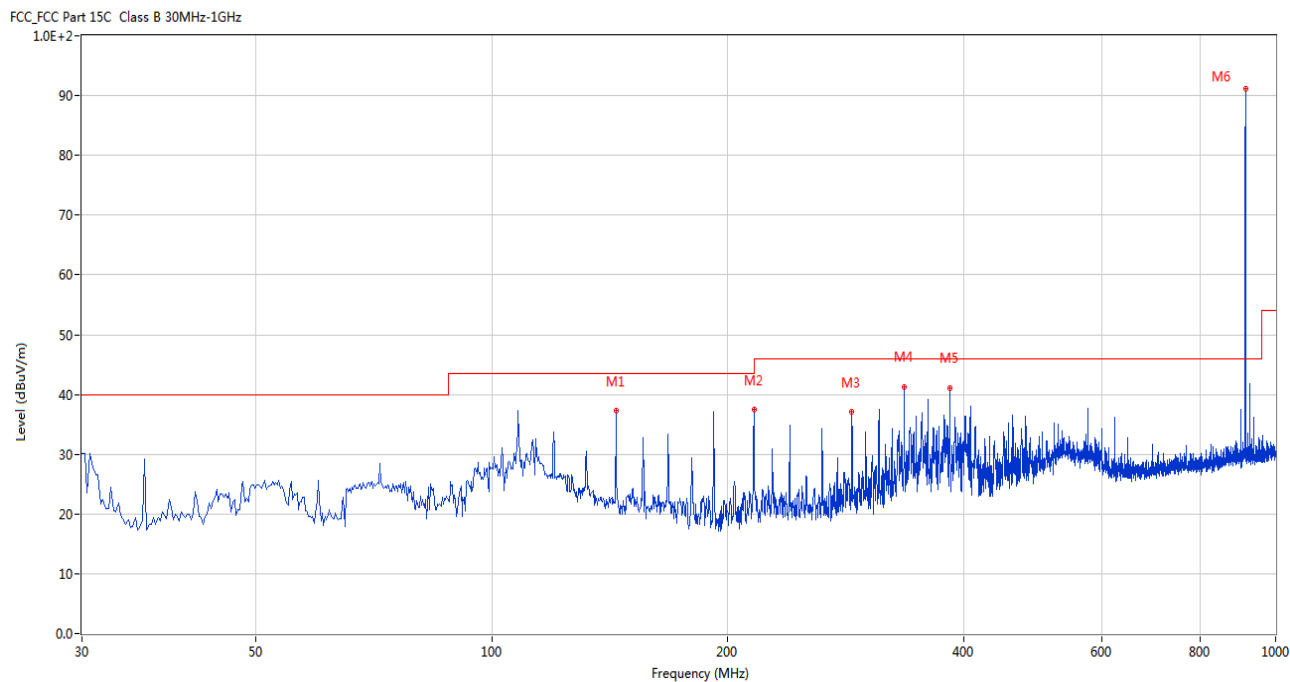
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D: General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_14.02.16
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-915M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBu /m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	143.947	37.24	-17.10	43.5	6.26	Peak	317.00	100	Vertical	Pass
2	215.951	37.44	-13.60	43.5	6.06	Peak	158.00	100	Vertical	Pass
3	287.956	37.19	-11.27	46.0	8.81	Peak	107.00	100	Vertical	Pass
4	335.959	41.32	-9.91	46.0	4.68	Peak	90.00	100	Vertical	Pass
5	383.962	41.10	-9.16	46.0	4.90	Peak	83.00	100	Vertical	Pass
6	914.997	91.12	-1.75	46.0	-47.12	Peak	179.00	100	Vertical	N/A

The report refers only to the sample tested and does not apply to the bulk.

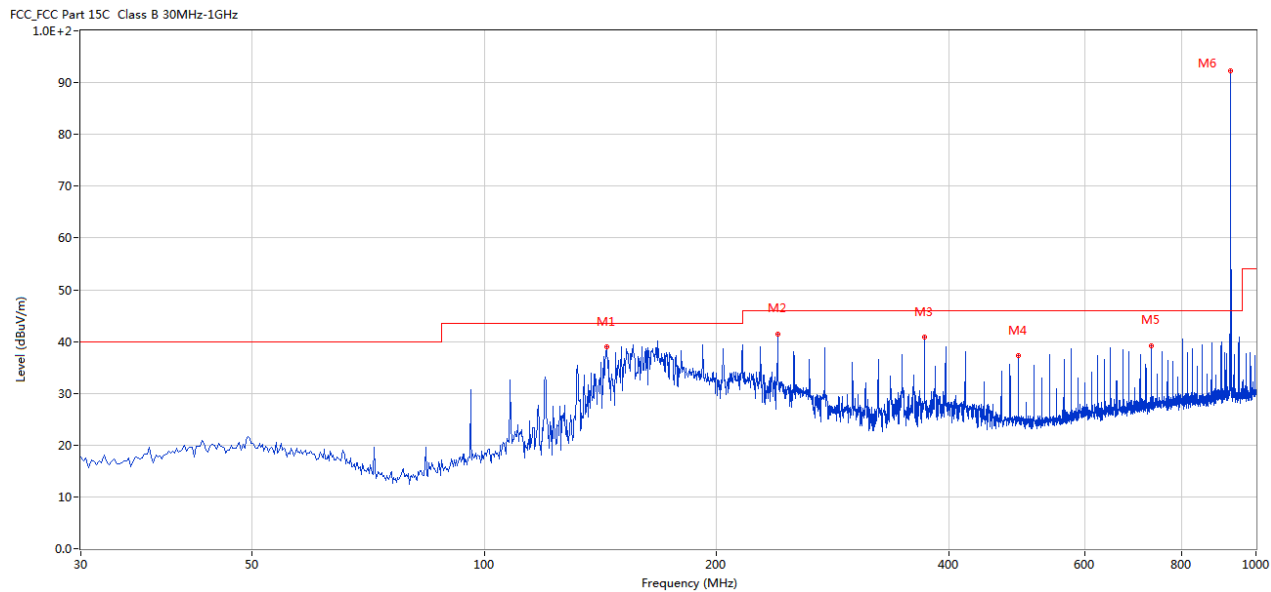
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E: General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_14.06.46
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-927M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	143.947	38.97	-17.10	43.5	4.53	Peak	325.00	100	Horizontal	Pass
2	240.195	41.61	-12.33	46.0	4.39	Peak	321.00	100	Horizontal	Pass
3	372.082	40.92	-9.49	46.0	5.08	Peak	355.00	100	Horizontal	Pass
4	492.089	37.37	-7.22	46.0	8.63	Peak	142.00	100	Horizontal	Pass
5	732.104	39.20	-3.66	46.0	6.80	Peak	16.00	100	Horizontal	Pass
6	926.996	93.29	-1.65	46.0	-47.29	Peak	126.00	100	Horizontal	N/A

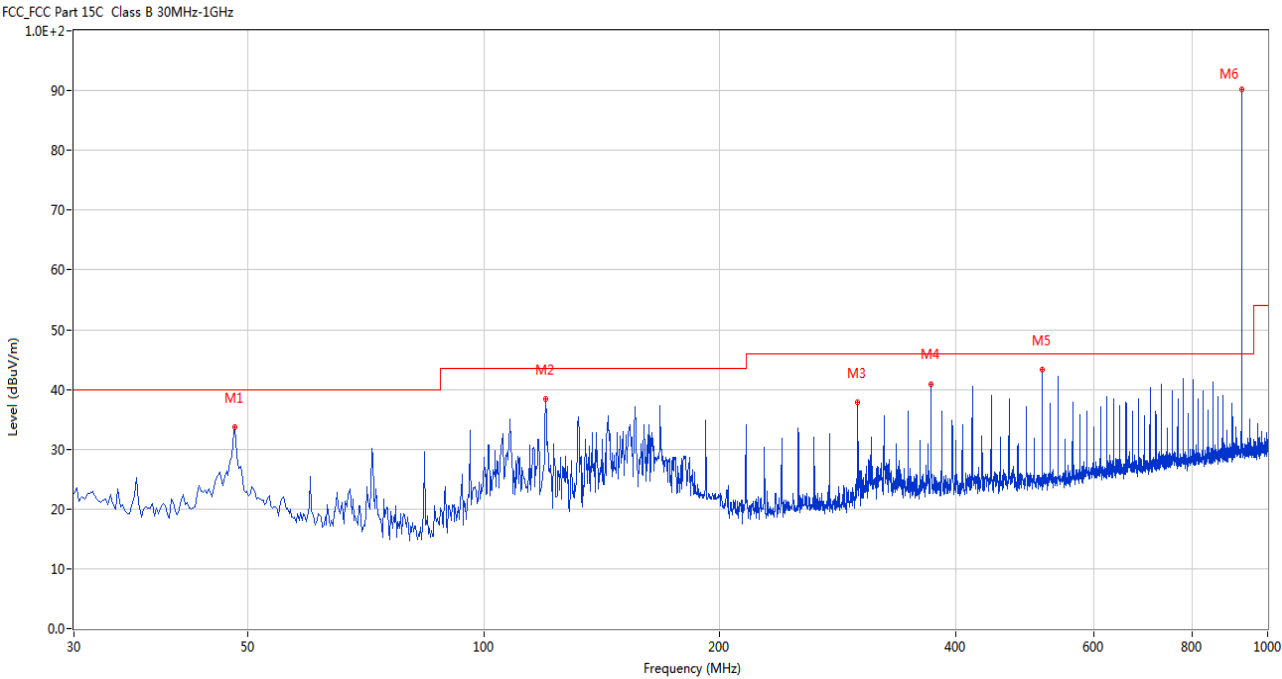
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F: General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

Project Number:	CASE2	Test Time:	2024-01-04_14.44.27
EUT Name:	Indoor Siren	Test Engineer:	JERRY
Manufacturer:	Zhejiang Dusun Electron Co., Ltd.	Test Standard:	FCC
Model:	RBAD-SI1-915	Work Addition:	TX-927M
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	DC3.7V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dB V/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.183	33.67	-11.26	40.0	6.33	Peak	258.00	200	Vertical	Pass
2	119.945	38.33	-15.32	43.5	5.17	Peak	290.00	200	Vertical	Pass
3	300.077	37.79	-11.03	46.0	8.21	Peak	203.00	200	Vertical	Pass
4	372.082	40.95	-9.49	46.0	5.05	Peak	123.00	200	Vertical	Pass
5	515.849	43.27	-6.80	46.0	2.73	Peak	135.00	200	Vertical	Pass
6	926.996	90.28	-1.65	46.0	-47.28	Peak	325.00	200	Vertical	N/A

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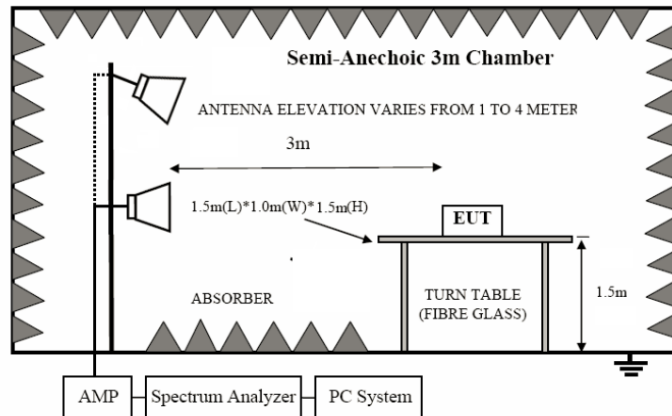


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

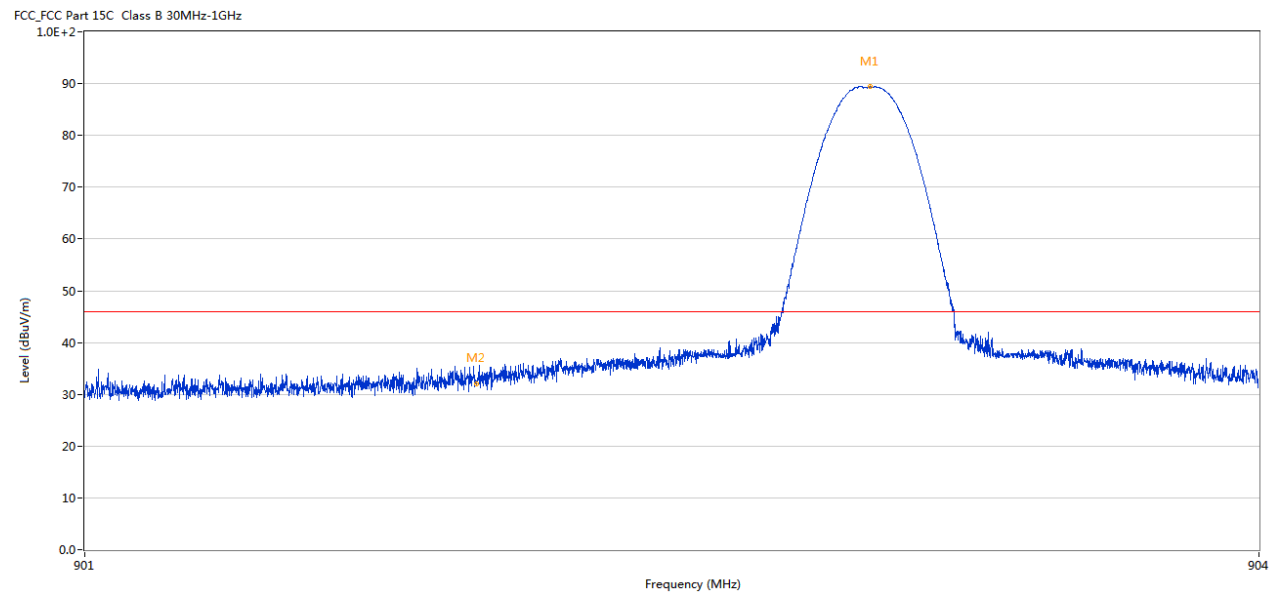
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7.6 Test Result

Product:	Indoor Siren	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Channel	903MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	903.006	89.36	-1.88	46.0	-43.36	Peak	360.00	100	Horizontal	Pass
2	902.000	32.06	-2.02	46.0	13.94	Peak	360.00	100	Horizontal	Pass

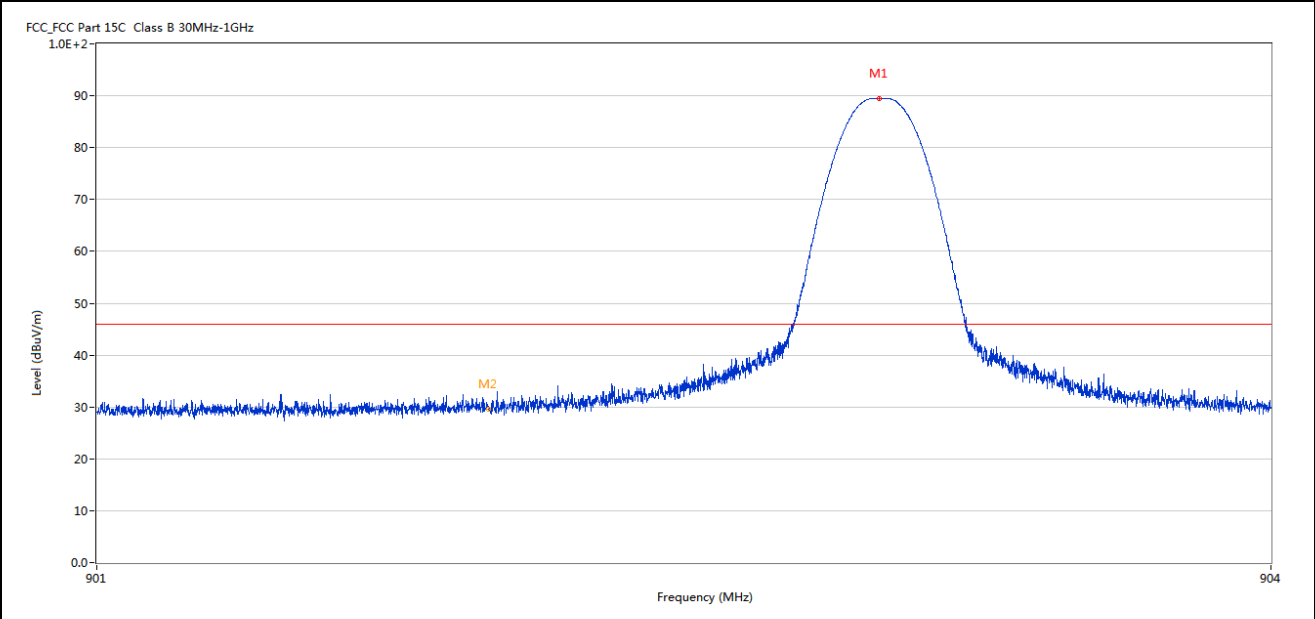
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Product:	Indoor Siren	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Channel	903MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	902.998	89.22	-1.88	46.0	-43.39	Peak	0.00	200	Vertical	Pass
2	902.000	29.52	-2.02	46.0	16.48	Peak	244.00	200	Vertical	Pass

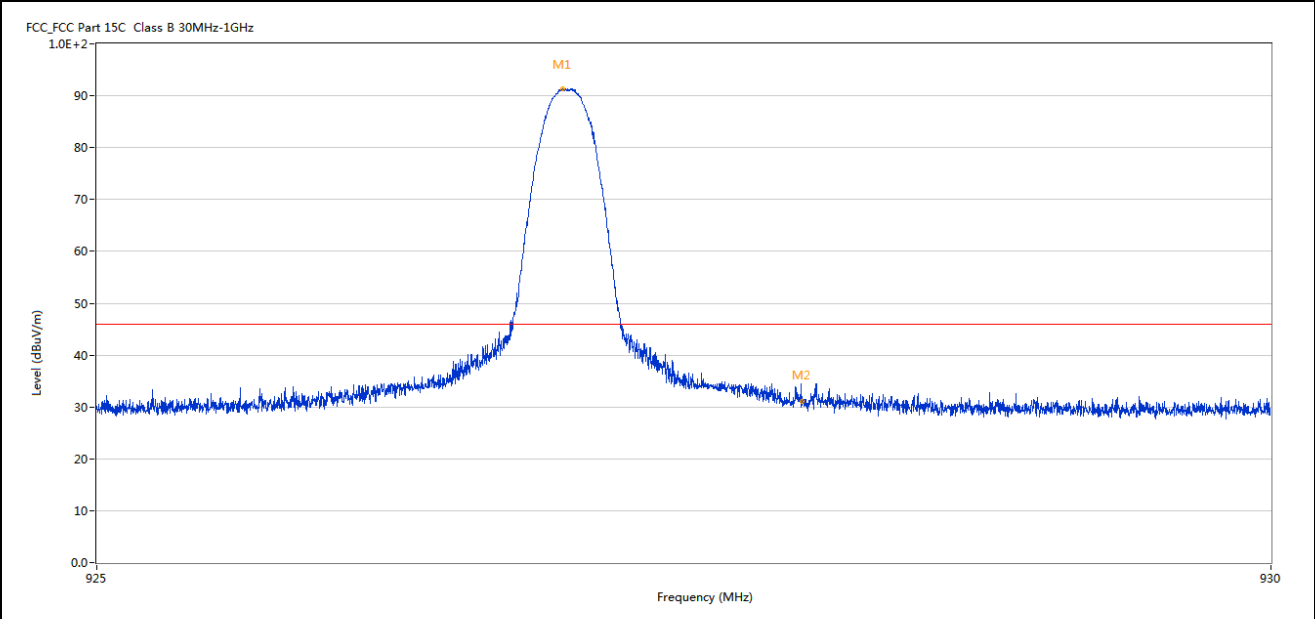
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Product:	Indoor Siren	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Channel	927MHz

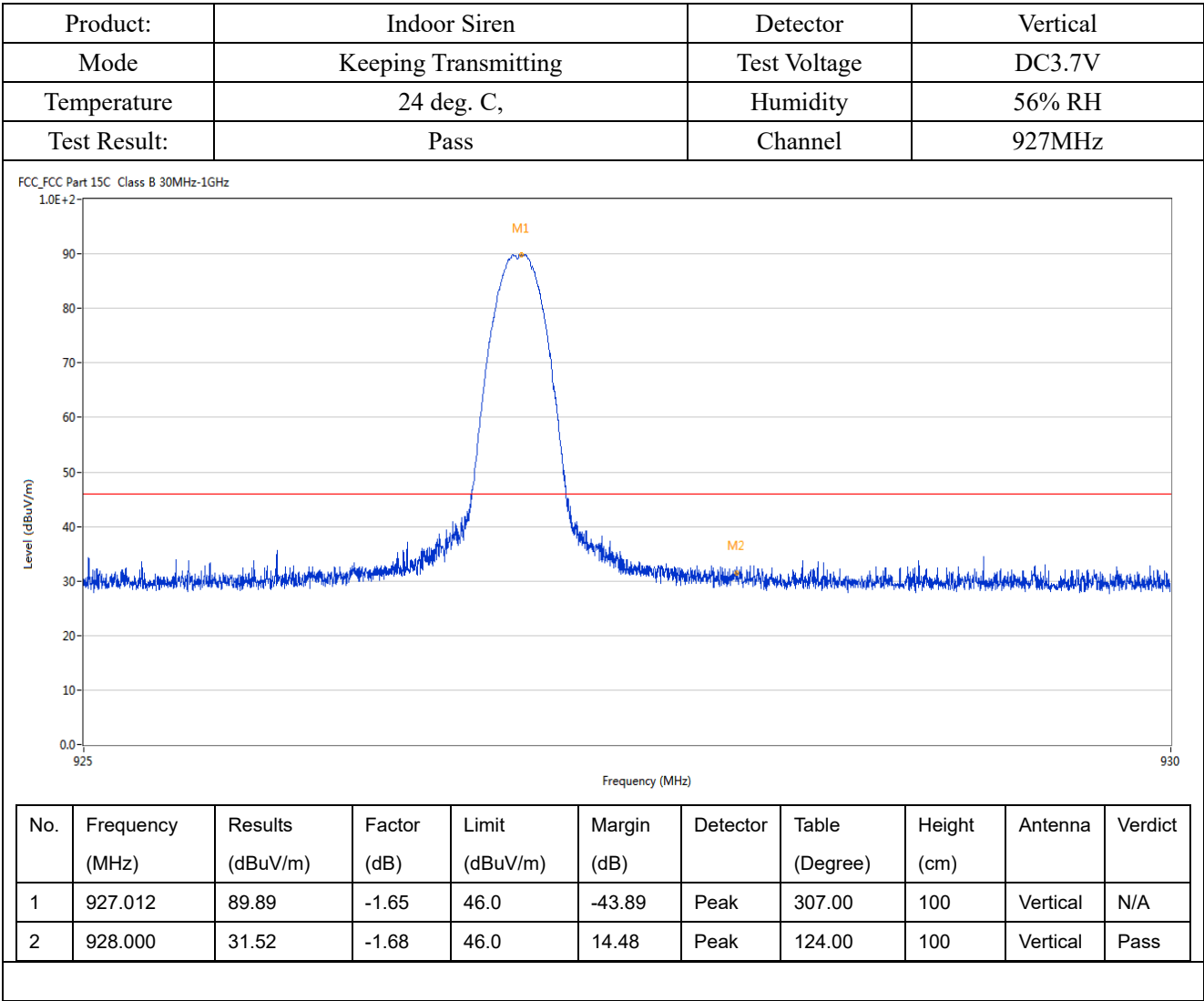


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	926.980	91.33	-1.65	46.0	-45.33	Peak	131.00	100	Horizontal	N/A
2	928.000	31.08	-1.68	46.0	14.92	Peak	0.60	100	Horizontal	Pass

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Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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8.0 Antenna Requirement

Applicable Standard

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.

This product has a FPC antenna with gain 1.49dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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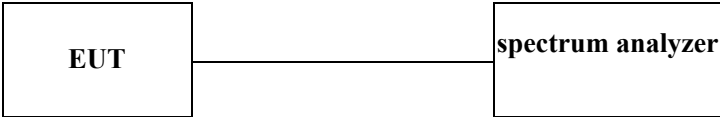
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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10kHz RBW and 30kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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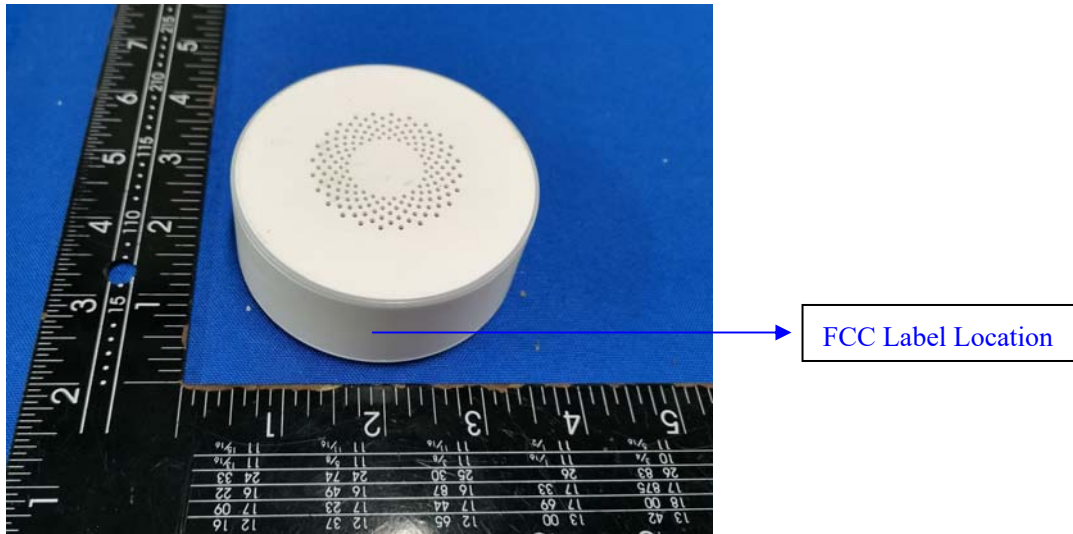


10.0 FCC ID Label

FCC ID: 2AUXBRBAD-SI1915

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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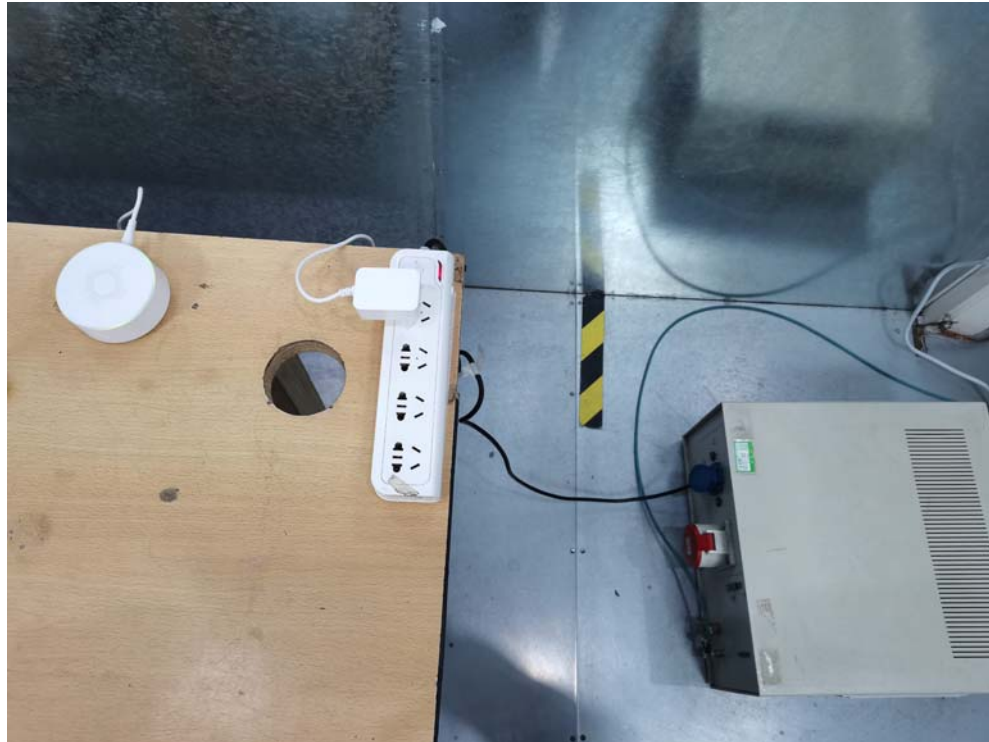
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11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



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11.2 Photographs – EUT

Outside View



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Outside View



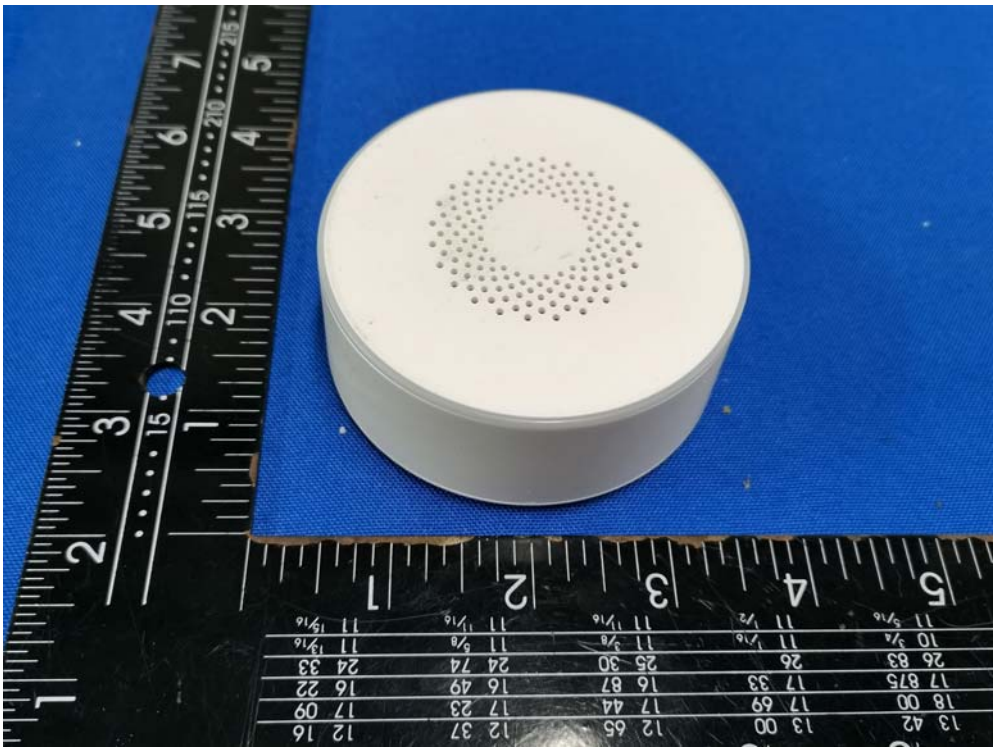
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Outside View



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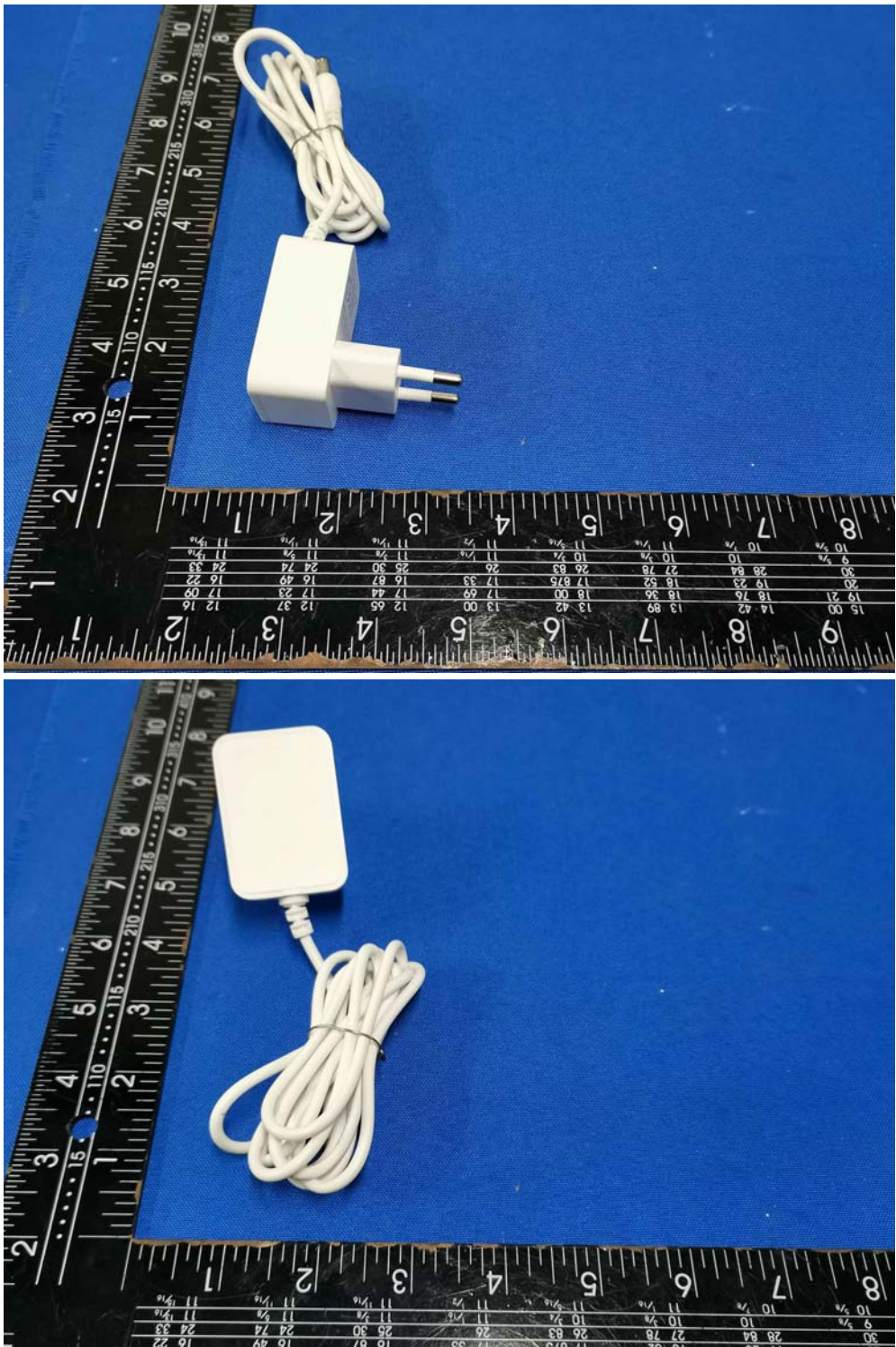
Outside View



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Outside View



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Inside View



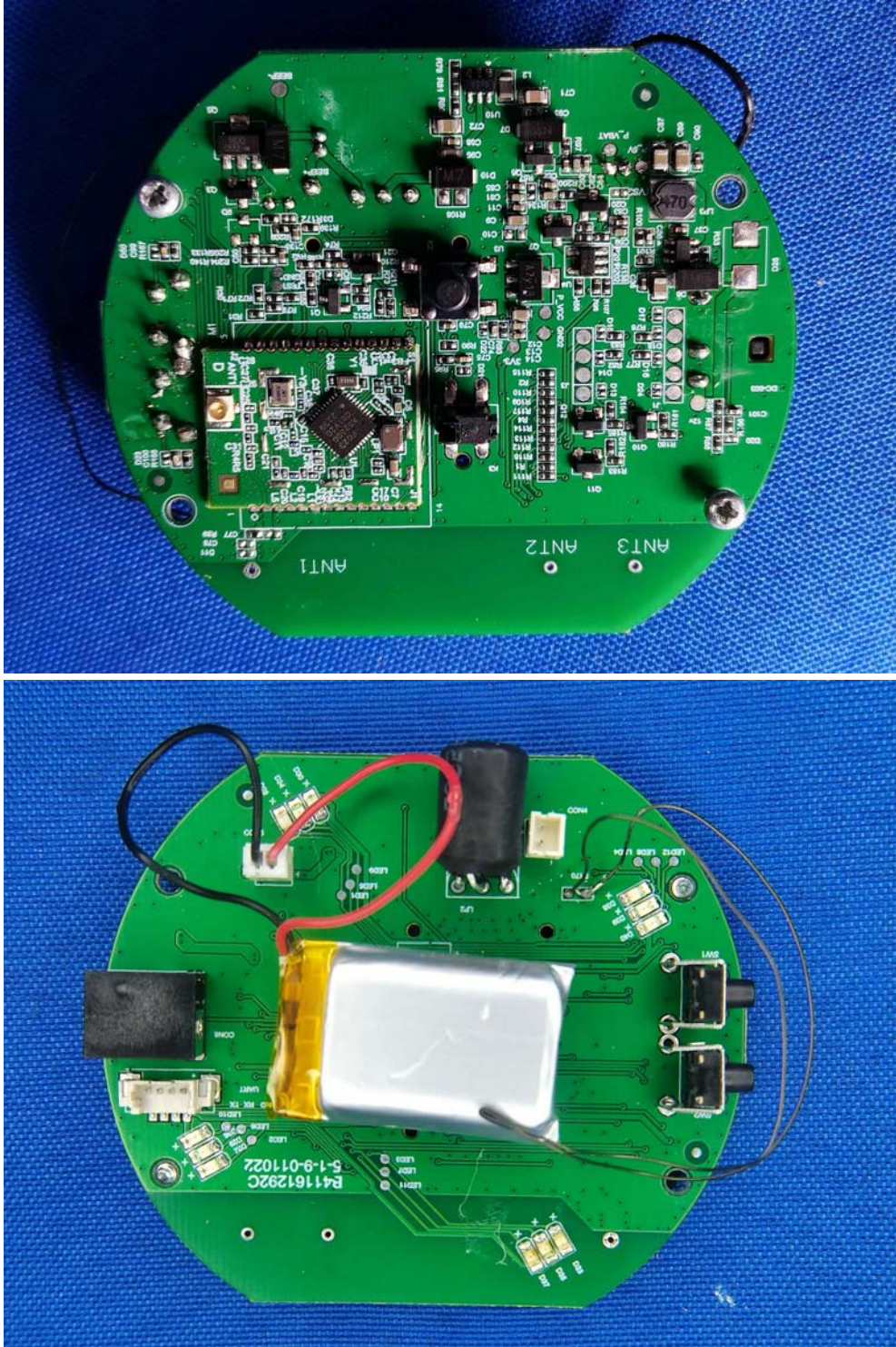
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Inside View



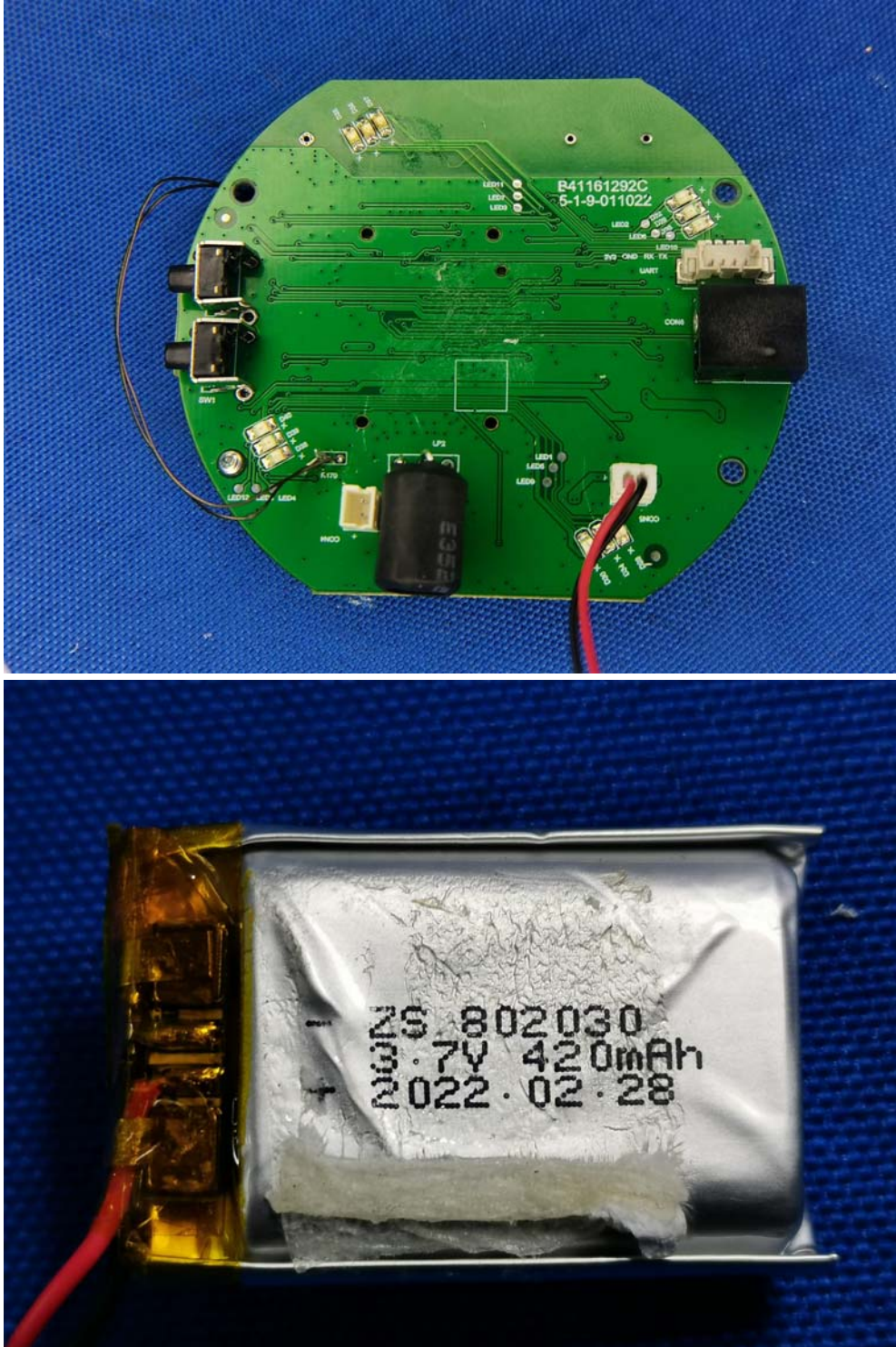
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Inside View



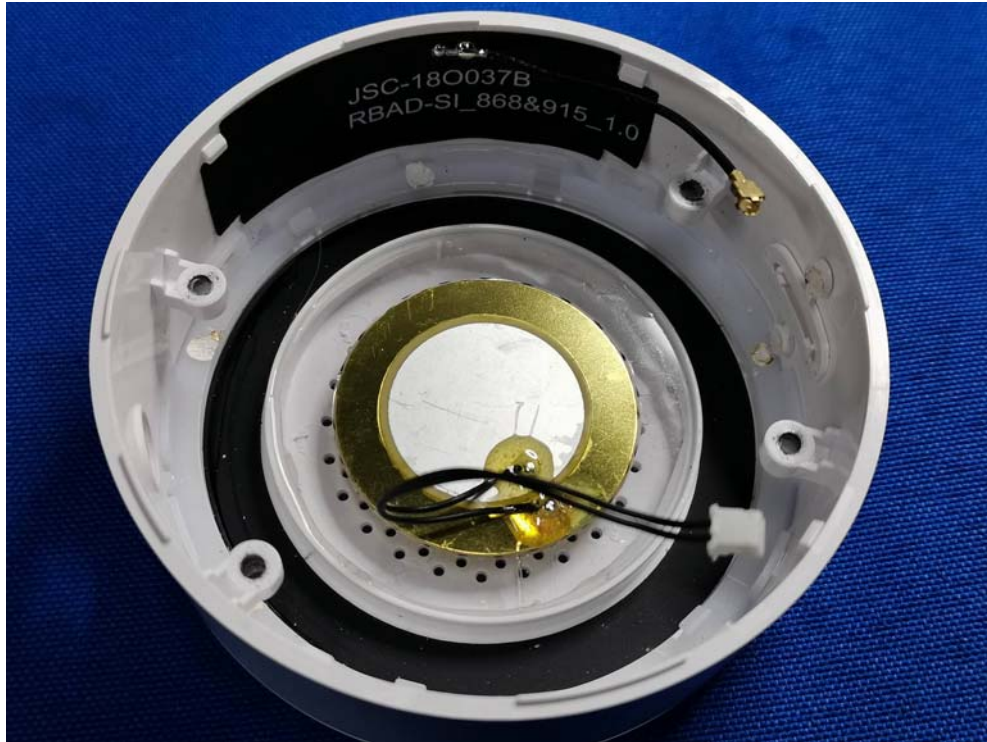
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Inside View



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