



Report No.: TW2210199-01E

Applicant: LEADER PREMIUMS LIMITED

Product: Wireless Charger & Speaker

Model No.: AB0322

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: November 14, 2022

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:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

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

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Test Report Conclusion

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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: +86 755 83448688
Fax: +86 755 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: LEADER PREMIUMS LIMITED
Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA
Telephone: --
Fax: --

1.3 Description of EUT

Product: Wireless Charger & Speaker
Manufacturer: LEADER PREMIUMS LIMITED
Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA
Trademark: N/A
Model Number: AB0322
Additional Model Name: N/A
Additional Trade Name: N/A
Rating: Input: DC5V, 3A; DC9V, 3A
Wireless Charge Output 1: DC5V/1A, DC9V/1.1A
Wireless Charge Output 2 (compatible with Airpods): 3W
Test Mode: Mode 1: DC9V/1.1A;
Mode 2: DC5V/1A;
Mode 3: 3W;
Mode 4: Mode 1+ Mode 3
Note: All outputs were tested and only the worst cases were recorded in the test report. In the test report, the data of Mode 1, Mode 3 and Mode 4 were recorded.
Battery: DC3.7V, 300mAh Li-ion battery
Hardware Version: Wirelesscharging-AB0322
Software Version: leader.1804.01

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Serial No.: AB0322
Operation Frequency: See below table

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	0.1115	06	0.140	11	0.165	16	0.190
02	0.120	07	0.145	12	0.170	17	0.195
03	0.125	08	0.150	13	0.175	18	0.200
04	0.130	09	0.155	14	0.180	19	0.205
05	0.135	10	0.160	15	0.185		
Test channel		Frequency (MHz)					
CH13		0.175 MHz					

Modulation Type: MSK
Antenna Designation Inductive Loop Antenna with gain 0dBi Max (Declared by the applicant)

1.4 Submitted Sample
1 Sample

1.5 Test Duration
2022-10-20 to 2022-11-14

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB
Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer
The sample tested by Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

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 requirements	Pass	Compliant	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Compliant	
FCC Part 15, Paragraph 15.209 (a) (f)	General Requirement	Pass	Compliant	
FCC Part 15, Paragraph 15.215	20dB Bandwidth Testing	Pass	Compliant	

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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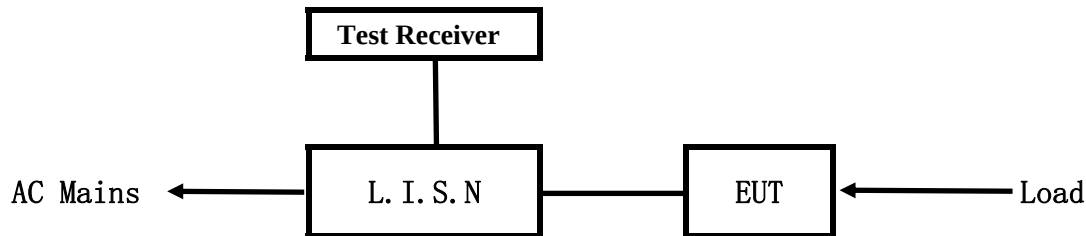
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



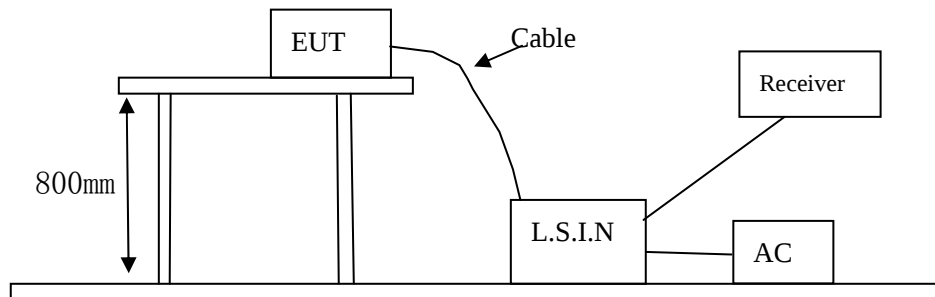
EUT: Equipment Under Test

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.

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Charger & Speaker	LEADER PREMIUMS LIMITED	AB0322	2APYY-AB0322

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Chenyang	UP0920	Input: 100-240V~, 50-60Hz, 0.5A; Output: DC5V/3A or DC9V, 3A

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

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

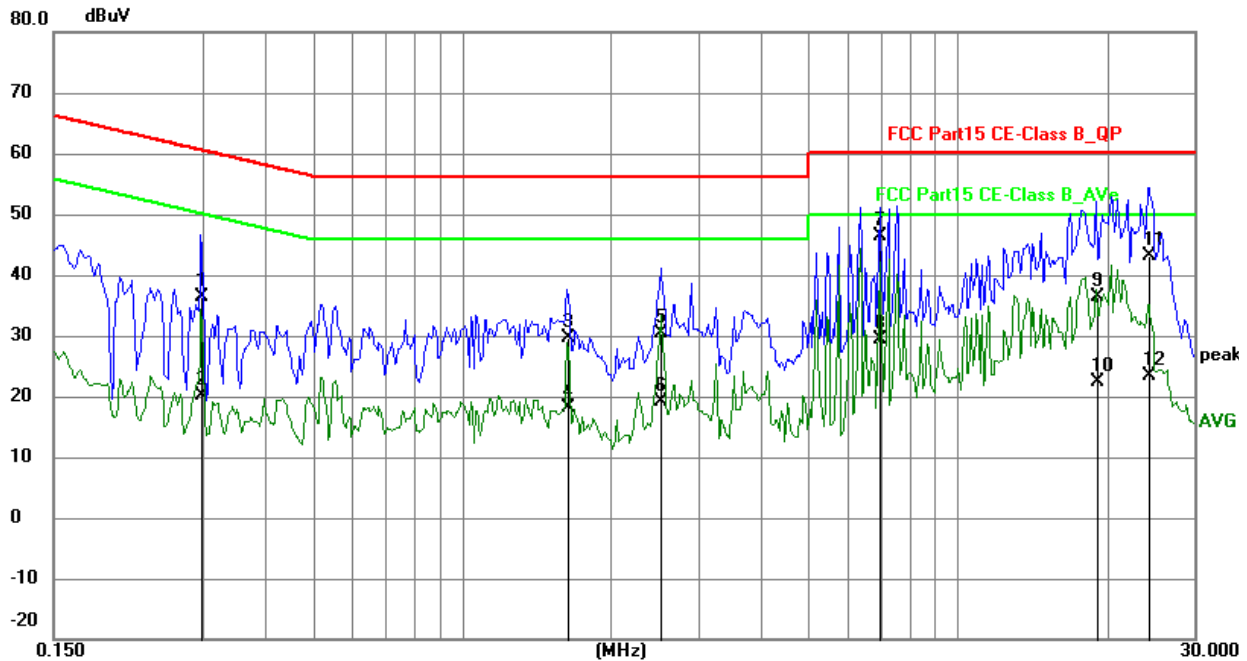
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 1

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	0.2982	26.58	9.76	36.34	60.29	-23.95	QP	P
2	0.2982	10.40	9.76	20.16	50.29	-30.13	AVG	P
3	1.6320	19.84	9.80	29.64	56.00	-26.36	QP	P
4	1.6320	8.23	9.80	18.03	46.00	-27.97	AVG	P
5	2.5212	20.44	9.82	30.26	56.00	-25.74	QP	P
6	2.5212	9.28	9.82	19.10	46.00	-26.90	AVG	P
7	6.9585	36.28	10.01	46.29	60.00	-13.71	QP	P
8	6.9585	19.32	10.01	29.33	50.00	-20.67	AVG	P
9	19.0914	25.68	10.63	36.31	60.00	-23.69	QP	P
10	19.0914	11.86	10.63	22.49	50.00	-27.51	AVG	P
11	24.2589	32.20	10.94	43.14	60.00	-16.86	QP	P
12	24.2589	12.44	10.94	23.38	50.00	-26.62	AVG	P

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

EUT Operating Environment

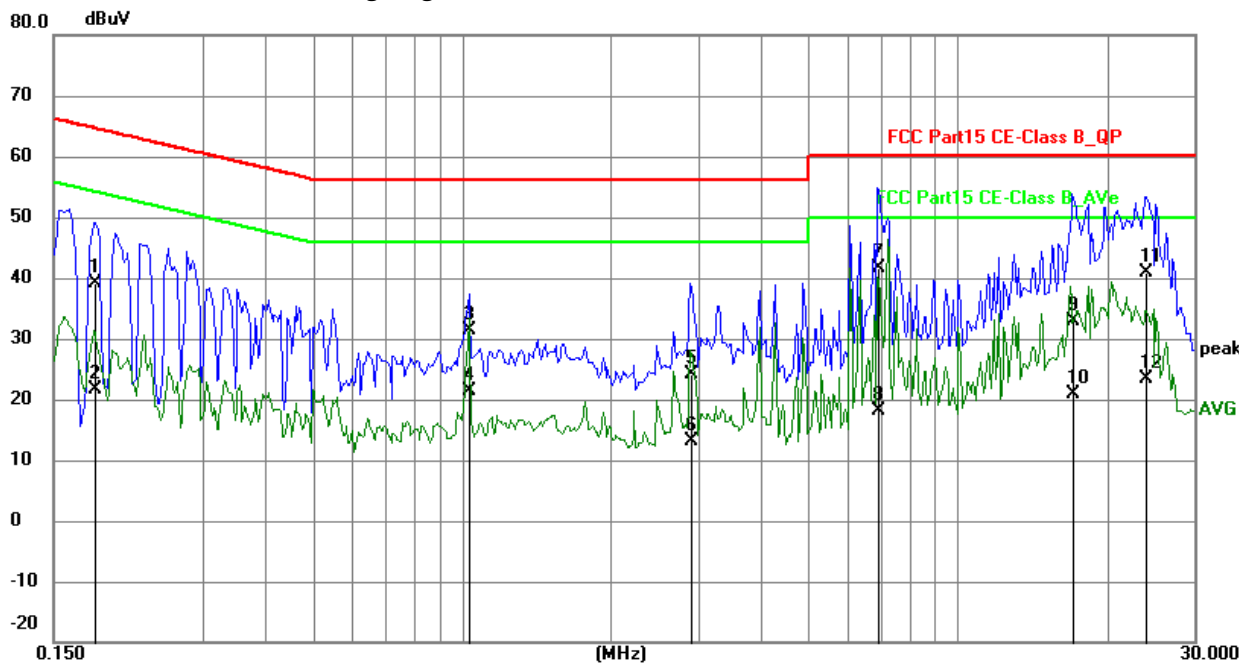
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 1

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	0.1812	29.26	9.76	39.02	64.43	-25.41	QP	P
2	0.1812	11.95	9.76	21.71	54.43	-32.72	AVG	P
3	1.0353	21.52	9.79	31.31	56.00	-24.69	QP	P
4	1.0353	11.54	9.79	21.33	46.00	-24.67	AVG	P
5	2.8917	14.17	9.84	24.01	56.00	-31.99	QP	P
6	2.8917	3.38	9.84	13.22	46.00	-32.78	AVG	P
7	6.9078	31.63	10.01	41.64	60.00	-18.36	QP	P
8	6.9078	8.16	10.01	18.17	50.00	-31.83	AVG	P
9	17.0595	22.46	10.50	32.96	60.00	-27.04	QP	P
10	17.0595	10.36	10.50	20.86	50.00	-29.14	AVG	P
11	23.9897	29.85	10.93	40.78	60.00	-19.22	QP	P
12	23.9897	12.53	10.93	23.46	50.00	-26.54	AVG	P

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C: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

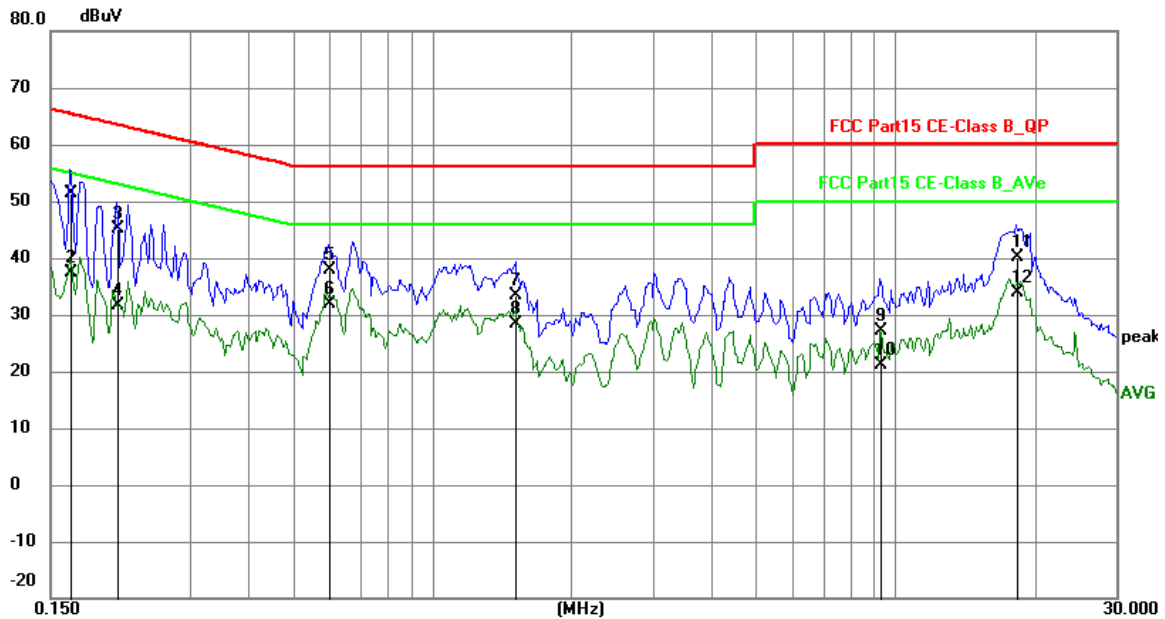
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 3

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	41.66	9.77	51.43	65.18	-13.75	QP	P
2	0.1655	27.63	9.77	37.40	55.18	-17.78	AVG	P
3	0.2085	35.40	9.75	45.15	63.26	-18.11	QP	P
4	0.2085	21.77	9.75	31.52	53.26	-21.74	AVG	P
5	0.5985	28.03	9.77	37.80	56.00	-18.20	QP	P
6	0.5985	22.22	9.77	31.99	46.00	-14.01	AVG	P
7	1.5189	23.60	9.79	33.39	56.00	-22.61	QP	P
8	1.5189	18.49	9.79	28.28	46.00	-17.72	AVG	P
9	9.2790	16.93	10.12	27.05	60.00	-32.95	QP	P
10	9.2790	11.11	10.12	21.23	50.00	-28.77	AVG	P
11	18.2958	29.45	10.58	40.03	60.00	-19.97	QP	P
12	18.2958	23.38	10.58	33.96	50.00	-16.04	AVG	P

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

EUT Operating Environment

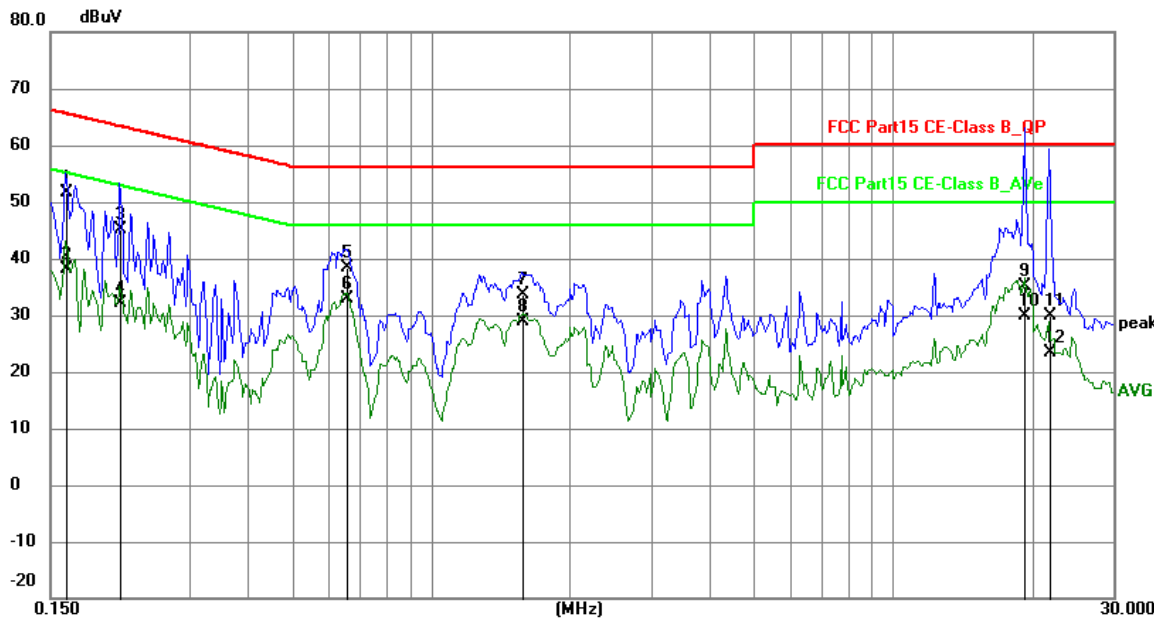
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 3

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	0.1617	41.73	9.78	51.51	65.38	-13.87	QP	P
2	0.1617	28.35	9.78	38.13	55.38	-17.25	AVG	P
3	0.2124	35.45	9.75	45.20	63.11	-17.91	QP	P
4	0.2124	22.44	9.75	32.19	53.11	-20.92	AVG	P
5	0.6570	28.72	9.78	38.50	56.00	-17.50	QP	P
6	0.6570	23.04	9.78	32.82	46.00	-13.18	AVG	P
7	1.5766	23.79	9.80	33.59	56.00	-22.41	QP	P
8	1.5766	19.16	9.80	28.96	46.00	-17.04	AVG	P
9	19.2513	24.58	10.63	35.21	60.00	-24.79	QP	P
10	19.2513	19.19	10.63	29.82	50.00	-20.18	AVG	P
11	21.8292	18.99	10.79	29.78	60.00	-30.22	QP	P
12	21.8292	12.63	10.79	23.42	50.00	-26.58	AVG	P

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E: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

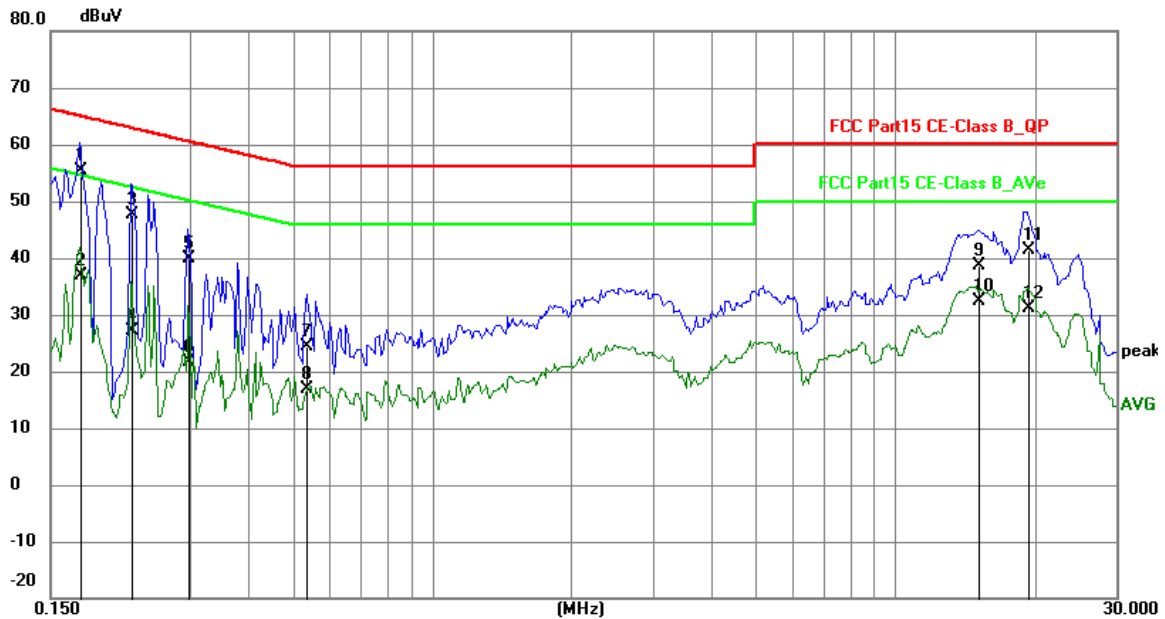
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 4

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	0.1734	45.71	9.77	55.48	64.80	-9.32	QP	P
2	0.1734	27.22	9.77	36.99	54.80	-17.81	AVG	P
3	0.2241	37.85	9.75	47.60	62.67	-15.07	QP	P
4	0.2241	17.42	9.75	27.17	52.67	-25.50	AVG	P
5	0.2982	30.18	9.76	39.94	60.29	-20.35	QP	P
6	0.2982	11.82	9.76	21.58	50.29	-28.71	AVG	P
7	0.5361	14.50	9.77	24.27	56.00	-31.73	QP	P
8	0.5361	7.01	9.77	16.78	46.00	-29.22	AVG	P
9	15.1290	28.34	10.39	38.73	60.00	-21.27	QP	P
10	15.1290	22.04	10.39	32.43	50.00	-17.57	AVG	P
11	19.3293	30.80	10.64	41.44	60.00	-18.56	QP	P
12	19.3293	20.52	10.64	31.16	50.00	-18.84	AVG	P

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

EUT Operating Environment

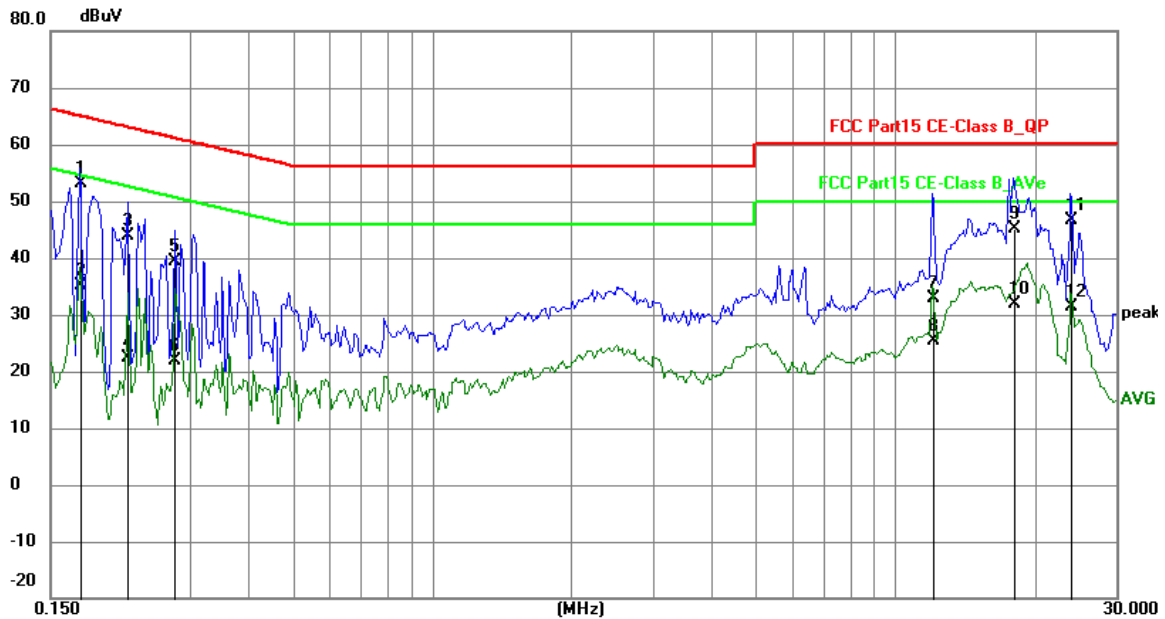
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Mode: Mode 4

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	0.1734	43.48	9.77	53.25	64.80	-11.55	QP	P
2	0.1734	25.48	9.77	35.25	54.80	-19.55	AVG	P
3	0.2202	34.21	9.75	43.96	62.81	-18.85	QP	P
4	0.2202	12.56	9.75	22.31	52.81	-30.50	AVG	P
5	0.2787	29.63	9.76	39.39	60.85	-21.46	QP	P
6	0.2787	12.03	9.76	21.79	50.85	-29.06	AVG	P
7	12.0401	22.68	10.25	32.93	60.00	-27.07	QP	P
8	12.0401	15.23	10.25	25.48	50.00	-24.52	AVG	P
9	17.9916	34.64	10.56	45.20	60.00	-14.80	QP	P
10	17.9916	21.35	10.56	31.91	50.00	-18.09	AVG	P
11	23.9976	35.77	10.93	46.70	60.00	-13.30	QP	P
12	23.9976	20.46	10.93	31.39	50.00	-18.61	AVG	P

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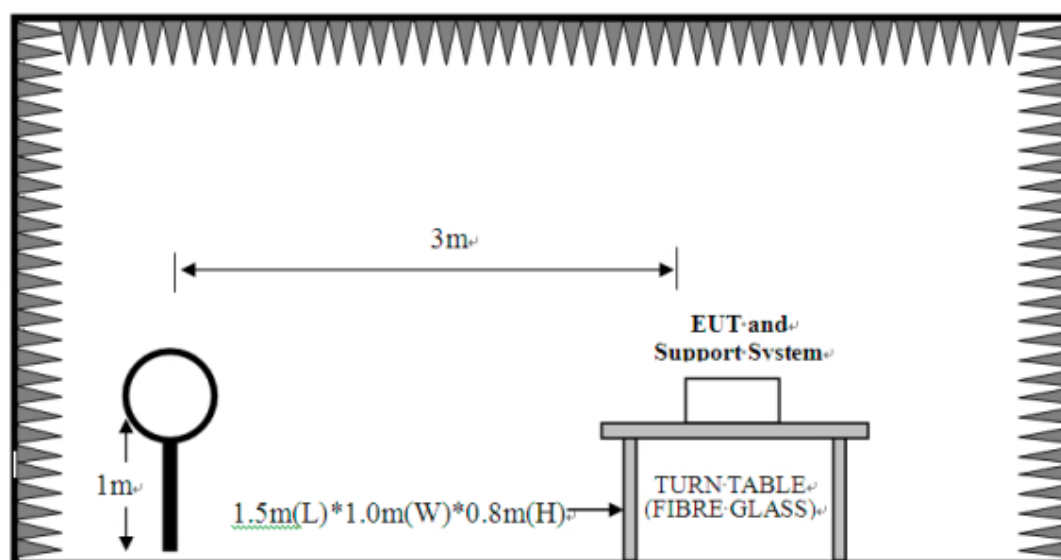
6 Radiated Emission Test

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 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. 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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

9kHz-30MHz



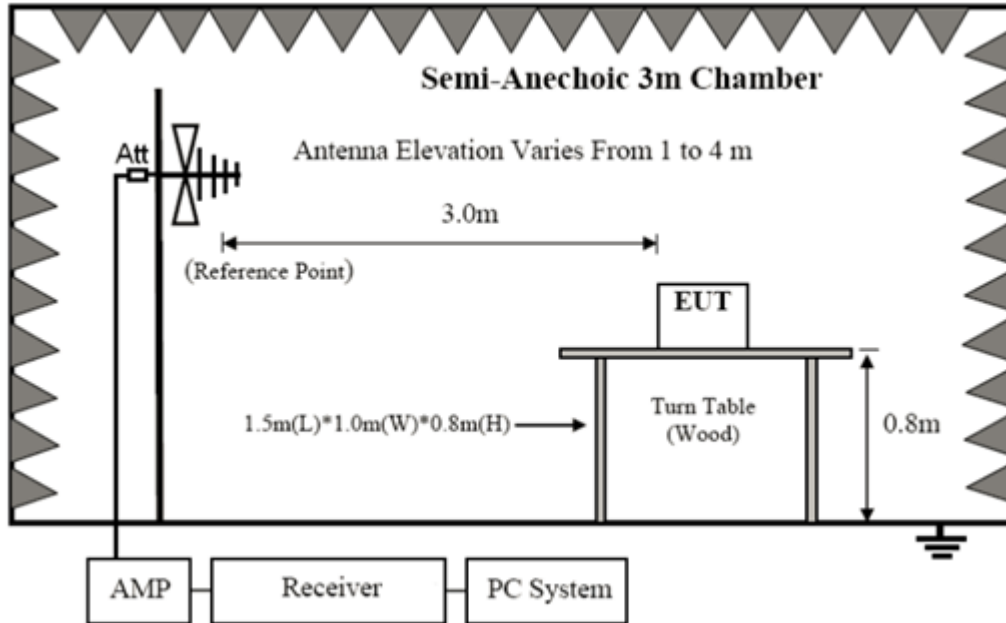
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30MHz-1000MHz



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:

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

Limits for frequency below 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (V/m)
0.009-0.490	300	$2400/F(\text{kHz})$
0.490-1.705	30	$24000/F(\text{kHz})$
1.705-30	30	30

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Limits for frequency above 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 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. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

6.5 Test result

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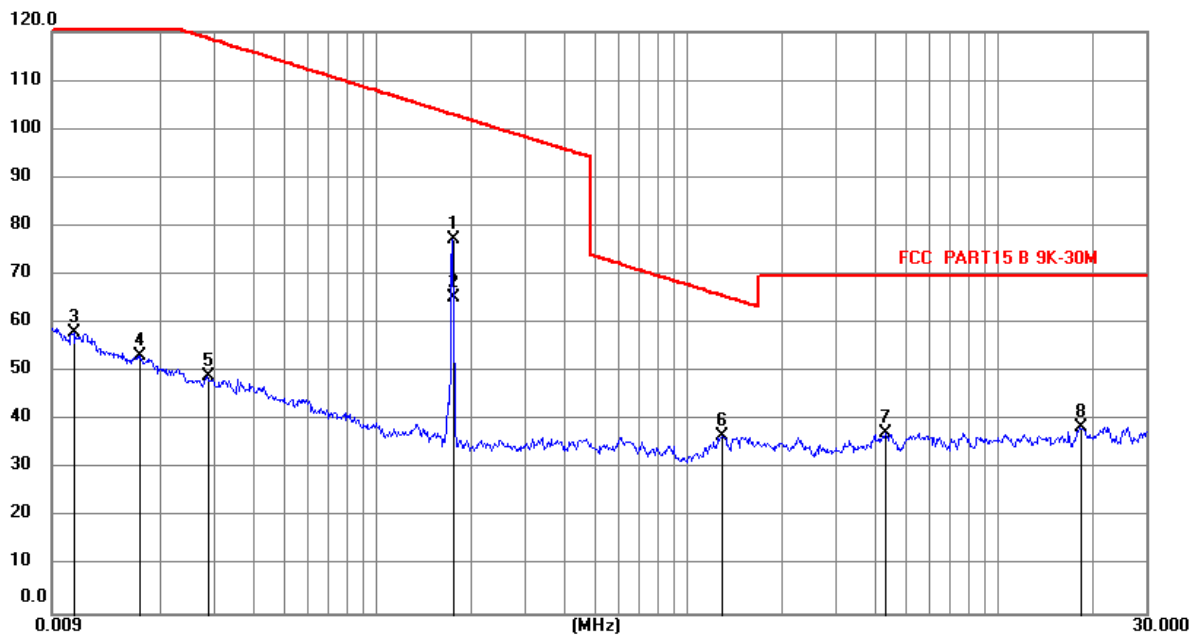
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Mode: Mode 1



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.1753	67.56	9.77	77.33	102.68	-25.35	peak	P
2	0.1753	55.61	9.77	65.38	102.68	-37.30	AVG	P
3	0.0106	47.98	10.02	58.00	126.91	-68.91	peak	P
4	0.0171	42.87	10.25	53.12	122.78	-69.66	peak	P
5	0.0286	38.80	10.20	49.00	118.34	-69.34	peak	P
6	1.2874	27.07	9.79	36.86	65.43	-28.57	peak	P
7	4.3475	27.58	9.90	37.48	69.53	-32.05	peak	P
8	18.3125	27.87	10.58	38.45	69.58	-31.13	peak	P

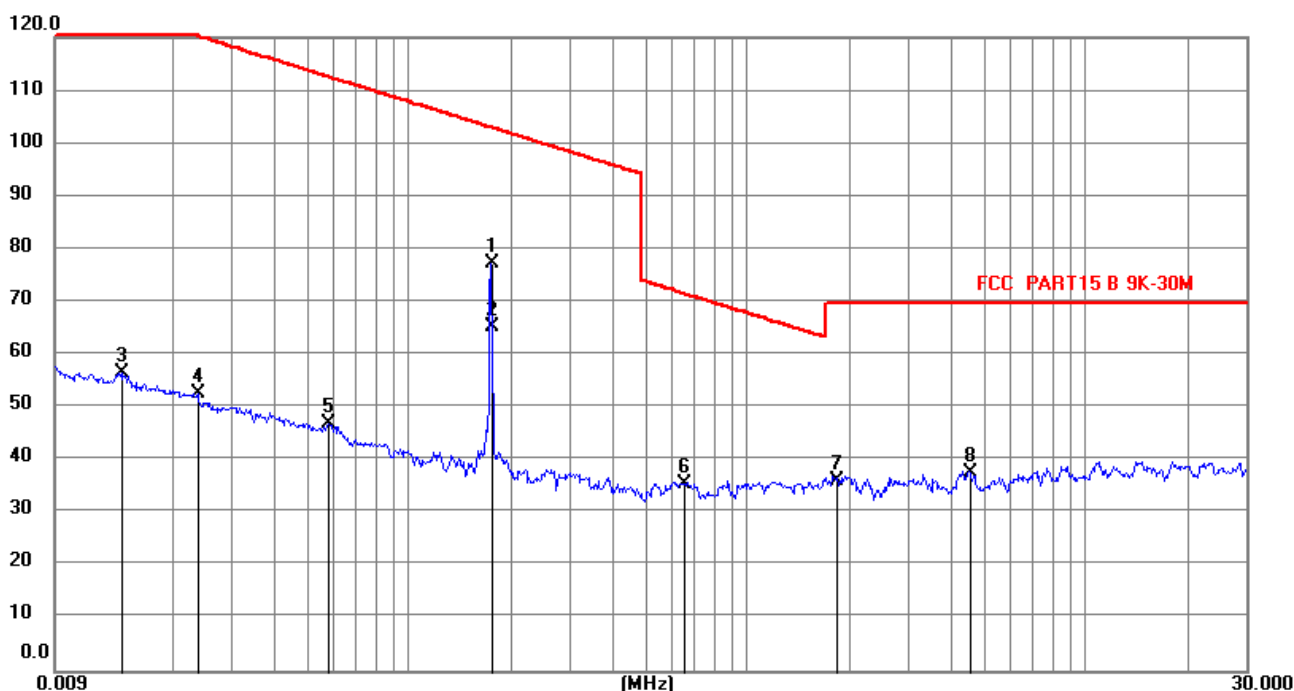
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Mode: Mode 3



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1753	67.56	9.77	77.33	102.68	-25.35	peak	P
2	0.1753	55.57	9.77	65.34	102.68	-37.34	AVG	P
3	0.0142	46.30	10.15	56.45	124.39	-67.94	peak	P
4	0.0238	42.43	10.29	52.72	119.93	-67.21	peak	P
5	0.0580	37.11	9.78	46.89	112.23	-65.34	peak	P
6	0.6572	25.67	9.78	35.45	71.26	-35.81	peak	P
7	1.8387	26.39	9.80	36.19	69.50	-33.31	peak	P
8	4.5500	27.72	9.91	37.63	69.53	-31.90	peak	P

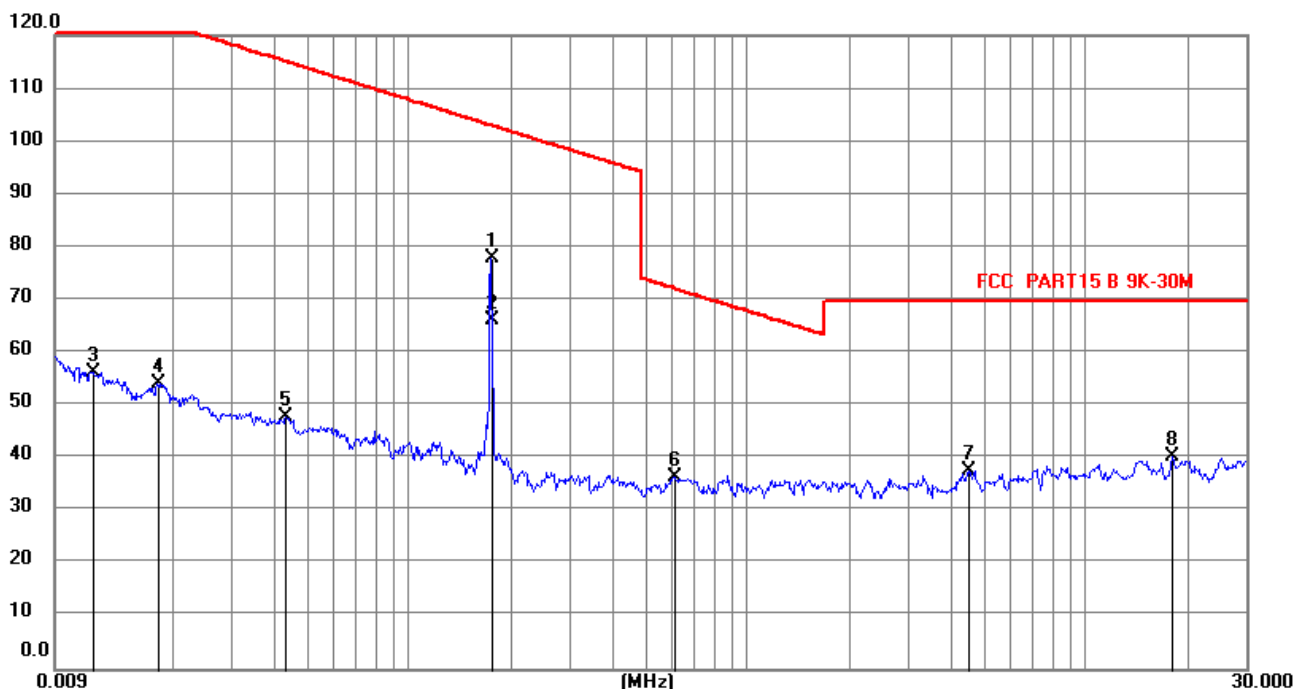
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Mode: Mode 4



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1753	68.06	9.77	77.83	102.68	-24.85	peak	P
2	0.1753	56.49	9.77	66.26	102.68	-36.42	AVG	P
3	0.0117	46.33	10.06	56.39	126.06	-69.67	peak	P
4	0.0181	43.90	10.29	54.19	122.29	-68.10	peak	P
5	0.0434	38.07	9.92	47.99	114.74	-66.75	peak	P
6	0.6124	26.68	9.78	36.46	71.87	-35.41	peak	P
7	4.5274	27.67	9.91	37.58	69.53	-31.95	peak	P
8	18.0000	29.72	10.56	40.28	69.58	-29.30	peak	P

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A. General Radiated Emission Data

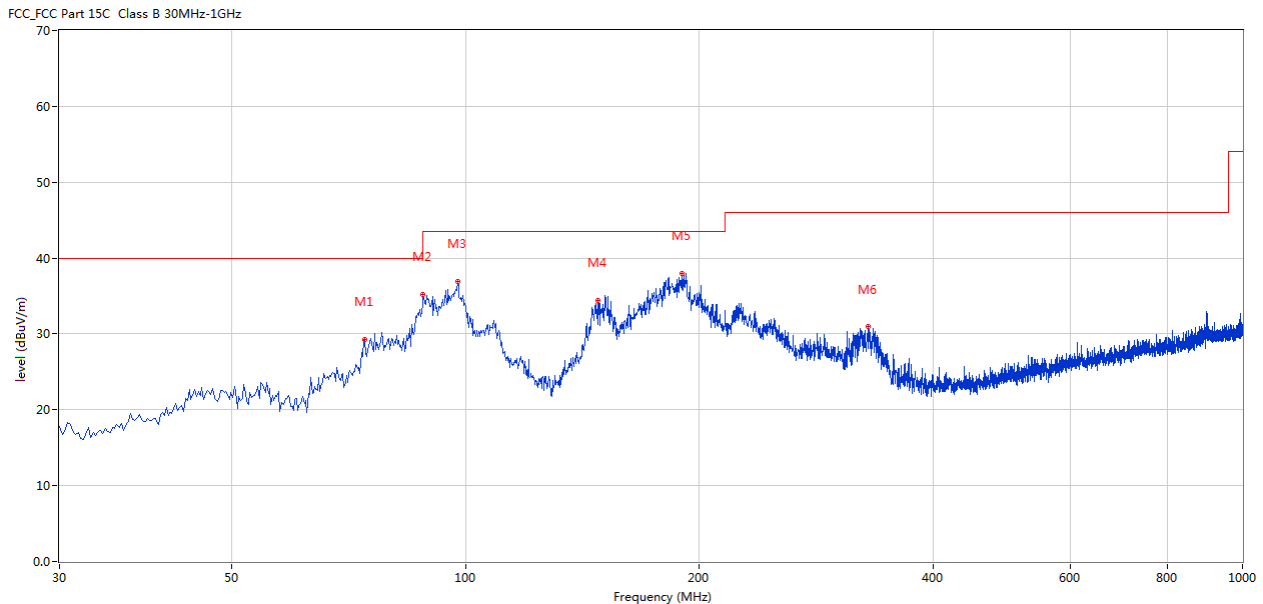
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 1

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	74.124	29.31	-17.14	40.0	-10.69	Peak	186.00	200	Horizontal	Pass
2	88.185	35.16	-15.59	43.5	-8.34	Peak	182.00	200	Horizontal	Pass
3	97.641	36.96	-13.79	43.5	-6.54	Peak	17.00	200	Horizontal	Pass
4	147.826	34.46	-17.19	43.5	-9.04	Peak	49.00	200	Horizontal	Pass
5	189.768	37.98	-14.33	43.5	-5.52	Peak	108.00	200	Horizontal	Pass
6	330.140	30.92	-10.23	46.0	-15.08	Peak	277.00	100	Horizontal	Pass

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B. General Radiated Emission Data

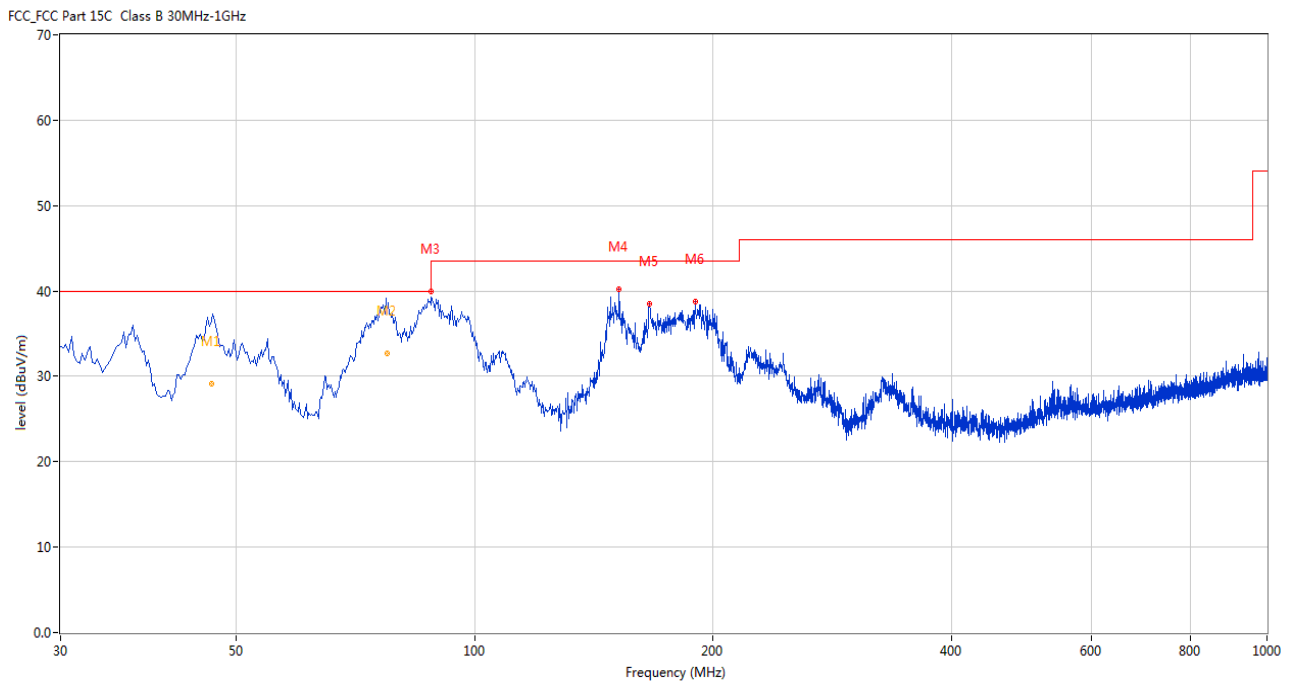
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 1

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.555	35.67	-11.44	40.0	-4.33	Peak	360.00	181	Vertical	Pass
1*	46.555	29.13	-11.44	40.0	-10.87	QP	360.00	181	Vertical	Pass
2	77.428	38.89	-17.58	40.0	-1.11	Peak	342.00	110	Vertical	Pass
2*	77.428	32.72	-17.58	40.0	-7.28	QP	342.00	110	Vertical	Pass
3	88.185	39.28	-15.59	43.5	-4.22	Peak	161.00	100	Vertical	Pass
4	152.189	40.22	-16.91	43.5	-3.28	Peak	128.00	100	Vertical	Pass
5	166.251	38.46	-16.07	43.5	-5.04	Peak	128.00	100	Vertical	Pass
6	189.768	38.76	-14.33	43.5	-4.74	Peak	250.00	100	Vertical	Pass

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C. General Radiated Emission Data

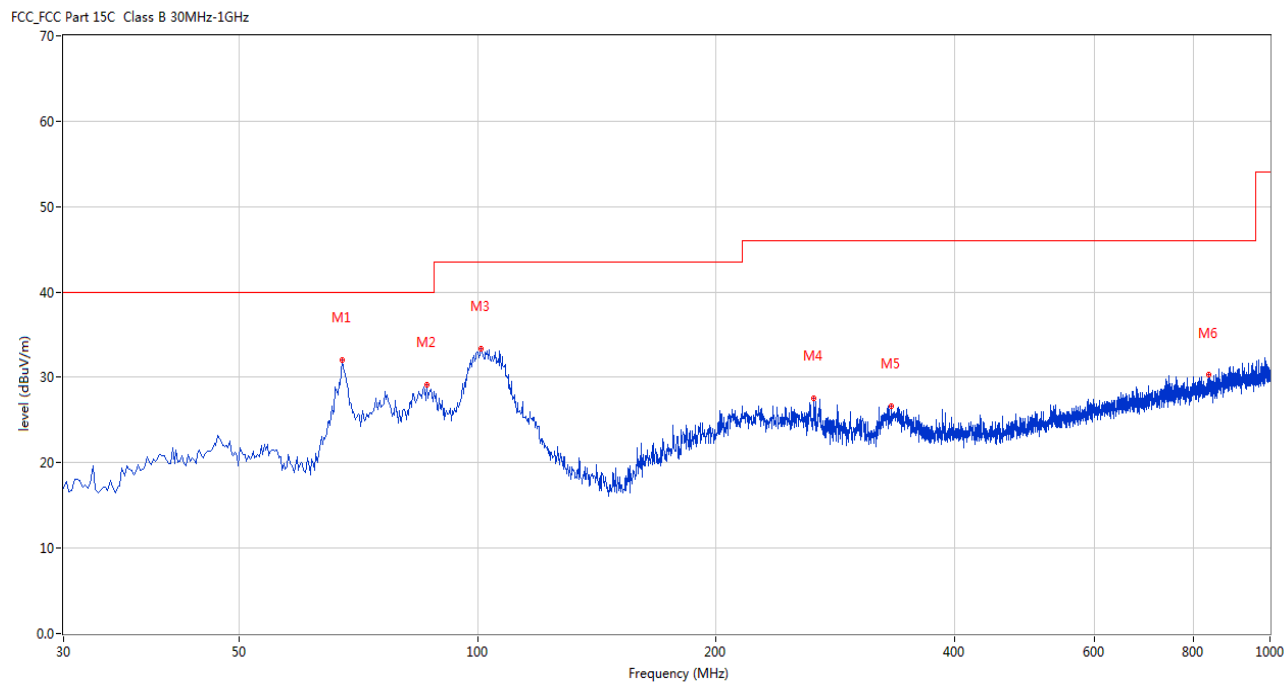
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 3

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	67.336	32.01	-14.40	40.0	-7.99	Peak	353.00	100	Horizontal	Pass
2	86.246	29.18	-16.18	40.0	-10.82	Peak	324.00	200	Horizontal	Pass
3	101.035	33.33	-13.46	43.5	-10.17	Peak	0.00	200	Horizontal	Pass
4	265.409	27.50	-11.85	46.0	-18.50	Peak	284.00	100	Horizontal	Pass
5	332.564	26.64	-10.09	46.0	-19.36	Peak	287.00	100	Horizontal	Pass
6	837.808	30.26	-2.62	46.0	-15.74	Peak	0.00	200	Horizontal	Pass

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D. General Radiated Emission Data

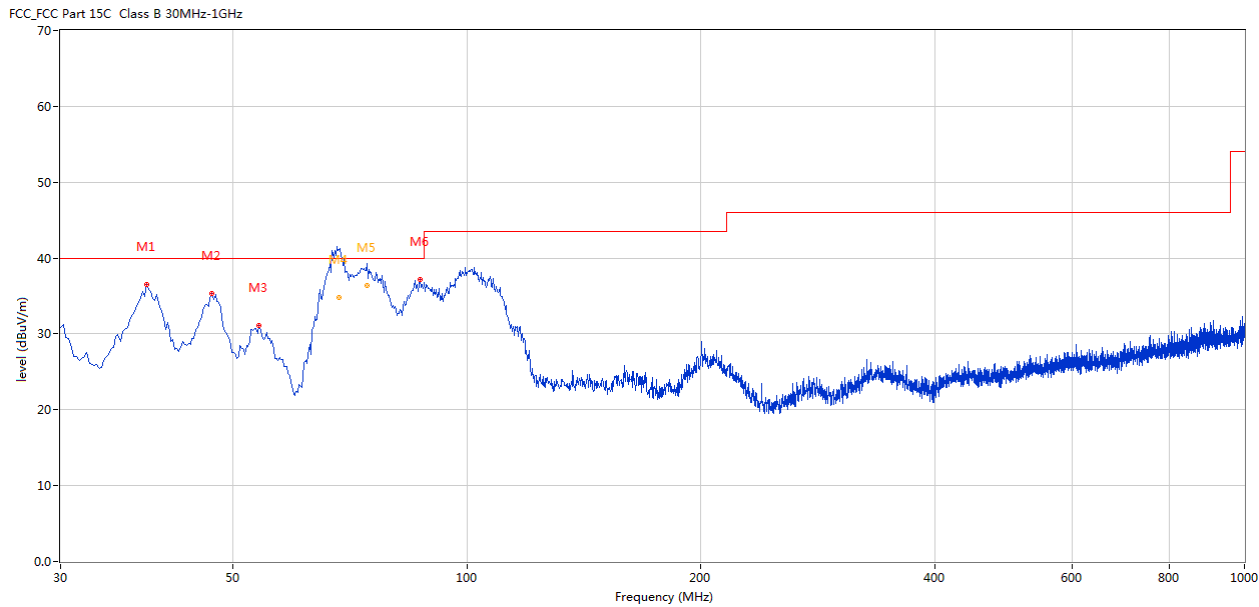
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 3

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	38.728	36.56	-12.63	40.0	-3.44	Peak	252.00	100	Vertical	Pass
2	46.971	35.30	-11.45	40.0	-4.70	Peak	115.00	100	Vertical	Pass
3	54.001	31.11	-11.54	40.0	-8.89	Peak	10.00	100	Vertical	Pass
4	68.398	41.26	-14.68	40.0	1.26	Peak	353.00	180	Vertical	N/A
4*	68.398	34.77	-14.68	40.0	-5.23	QP	353.00	180	Vertical	Pass
5	74.466	40.35	-17.19	40.0	0.35	Peak	240.00	101	Vertical	N/A
5*	74.466	36.44	-17.19	40.0	-3.56	QP	240.00	101	Vertical	Pass
6	86.973	37.17	-15.88	40.0	-2.83	Peak	205.00	100	Vertical	Pass

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E. General Radiated Emission Data

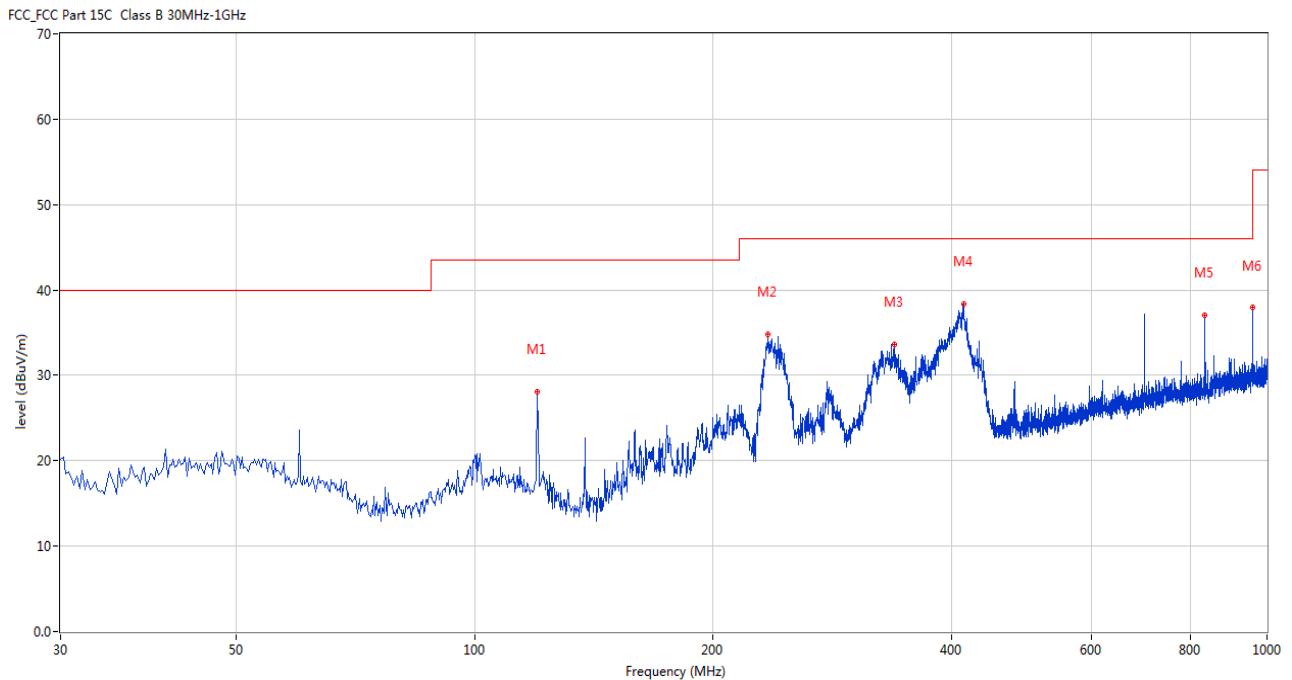
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 4

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	119.945	28.09	-15.32	43.5	-15.41	Peak	350.00	100	Horizontal	Pass
2	234.376	34.78	-12.53	46.0	-11.22	Peak	342.00	100	Horizontal	Pass
3	338.140	33.61	-9.77	46.0	-12.39	Peak	327.00	100	Horizontal	Pass
4	414.024	38.32	-8.25	46.0	-7.68	Peak	250.00	100	Horizontal	Pass
5	835.384	37.02	-2.71	46.0	-8.98	Peak	273.00	100	Horizontal	Pass
6	959.998	37.91	-1.63	46.0	-8.09	Peak	281.00	100	Horizontal	Pass

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F. General Radiated Emission Data

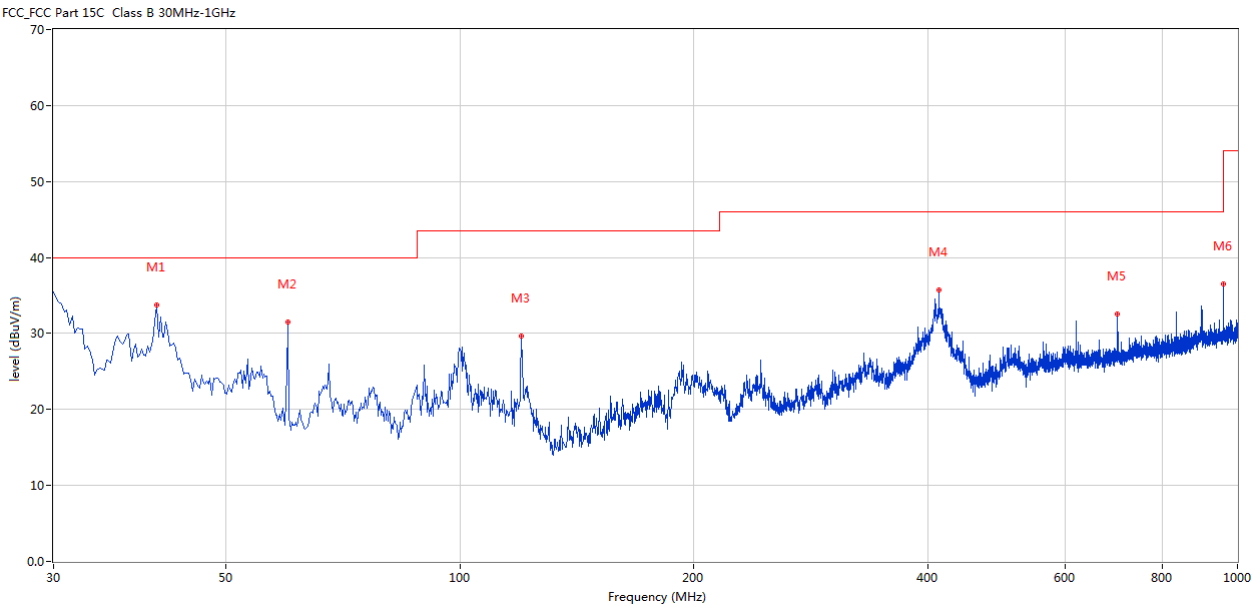
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Mode: Mode 4

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	40.667	33.69	-12.19	40.0	-6.31	Peak	246.00	100	Vertical	Pass
2	60.062	30.69	-12.97	40.0	-9.31	Peak	360.00	100	Vertical	Pass
3	119.945	29.41	-15.32	43.5	-14.09	Peak	176.00	100	Vertical	Pass
4	413.297	35.71	-8.30	46.0	-10.29	Peak	261.00	100	Vertical	Pass
5	700.102	30.49	-4.18	46.0	-15.51	Peak	246.00	100	Vertical	Pass
6	959.998	36.55	-1.63	46.0	-9.45	Peak	145.00	100	Vertical	Pass

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7.0 20dB Bandwidth Testing

7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

Mode: Mode 1

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.407	--	Pass

Mode: Mode 3

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.382	--	Pass

Mode: Mode 4

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.432	--	Pass

Refer to attached plots:

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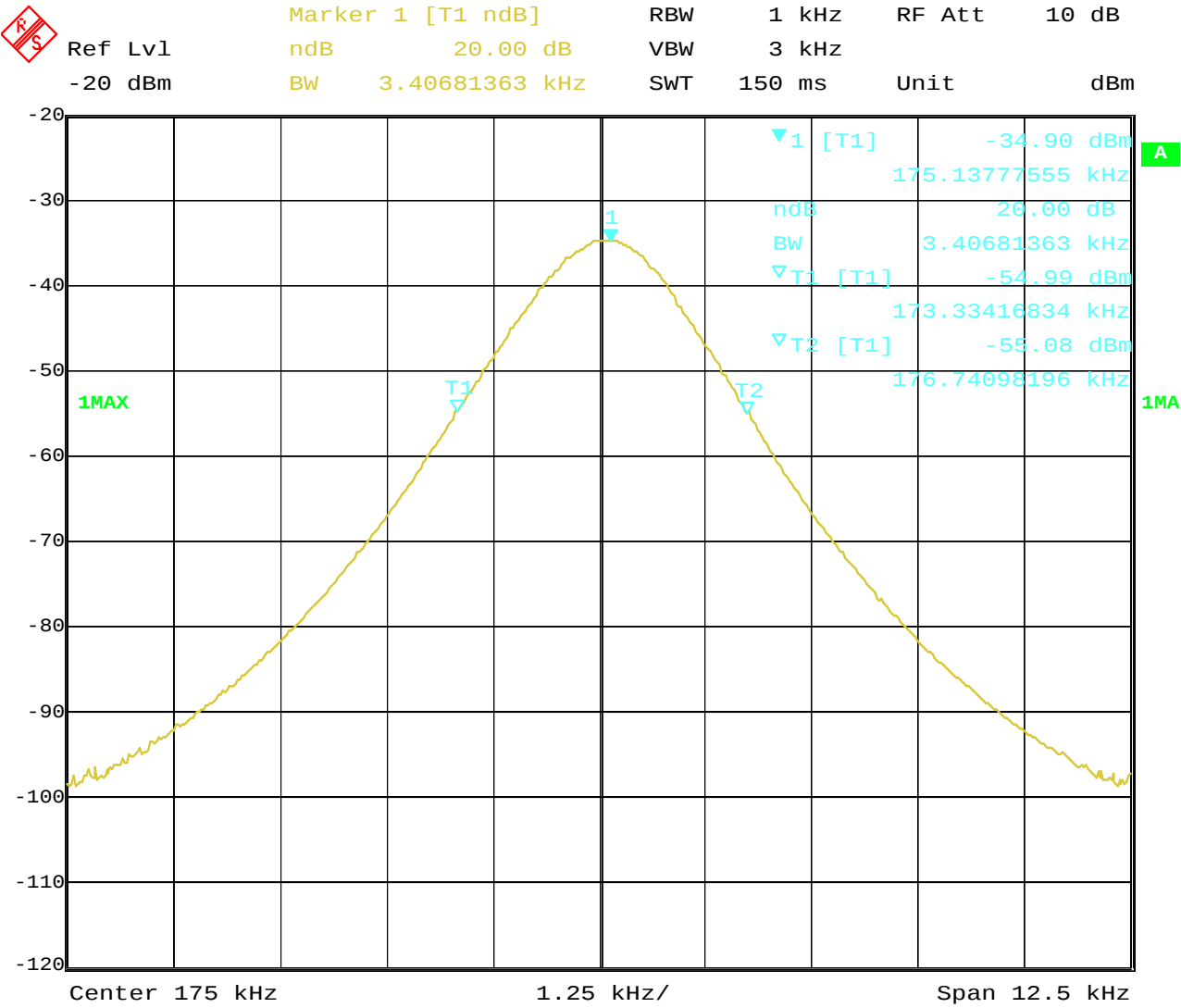
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20dB Bandwidth

Mode: Mode 1



Date: 3.NOV.2022 16:29:40

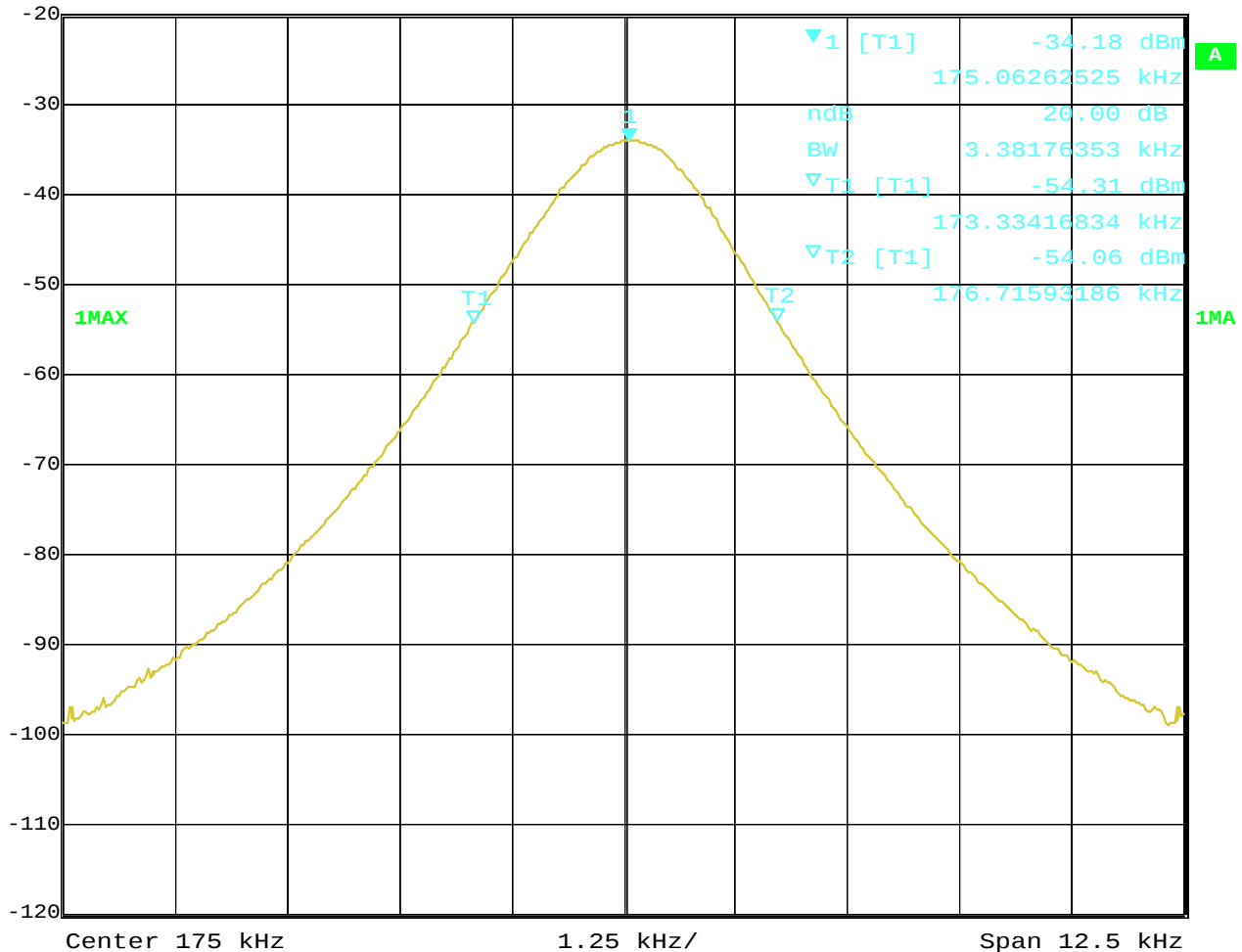
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Mode: Mode 3



Ref Lvl -20 dBm
Marker 1 [T1 ndB] 20.00 dB
BW 3.38176353 kHz
RBW 1 kHz
VBW 3 kHz
SWT 150 ms
RF Att 10 dB
Unit dBm

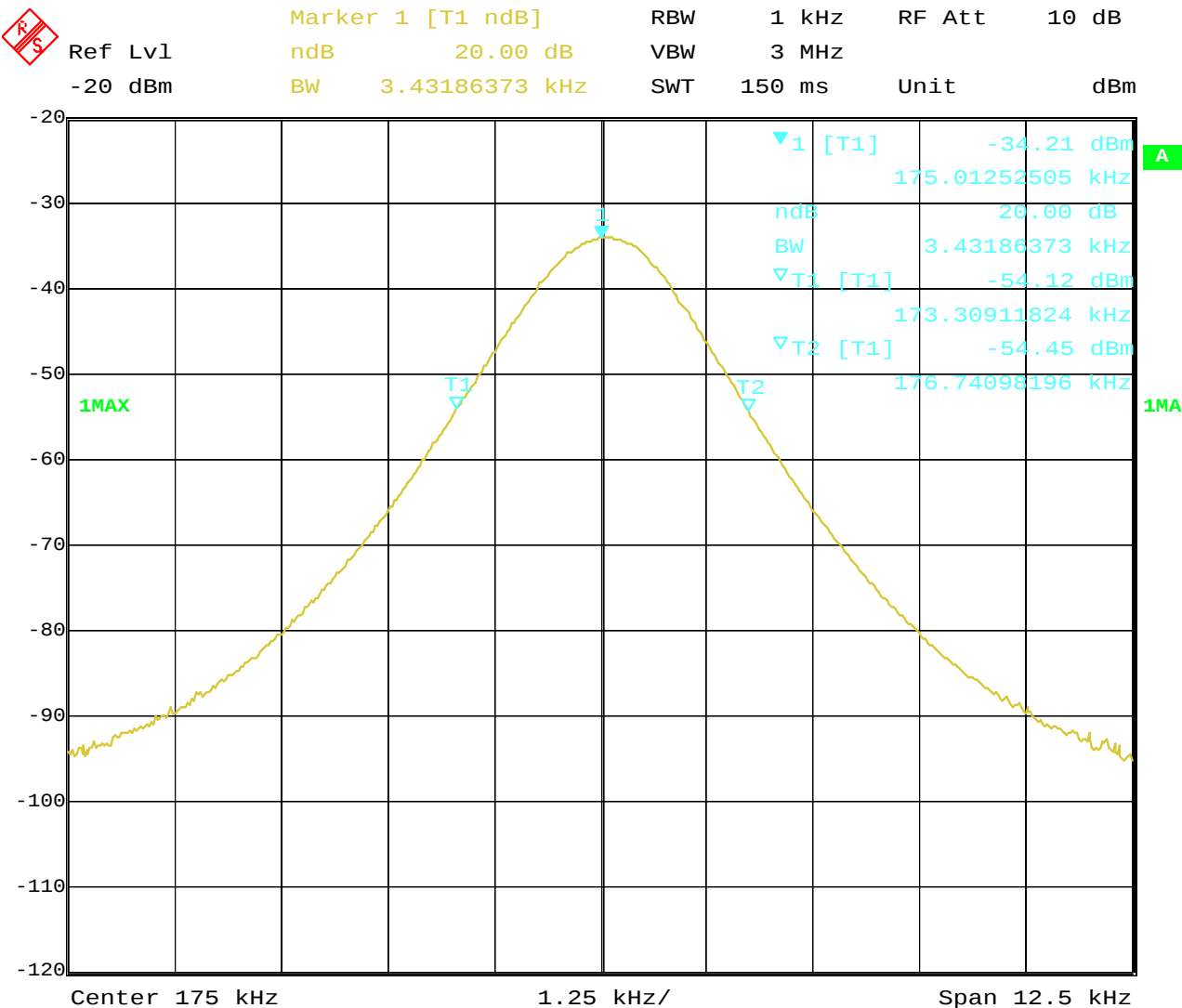


Date: 16.NOV.2022 15:36:16

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Mode: Mode 4



Date: 16.NOV.2022 13:54:56

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8.0 Antenna Requirement

8.1 Standard Applicable

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

8.2 Antenna Connected constructions

The antennas are Inductive Loop Antennas. The antenna gain is 0dBi for each one. So it meets the requirement of 15.203

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9.0 FCC ID Label

FCC ID: 2APYY-AB0322

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation

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:



FCC Label Location

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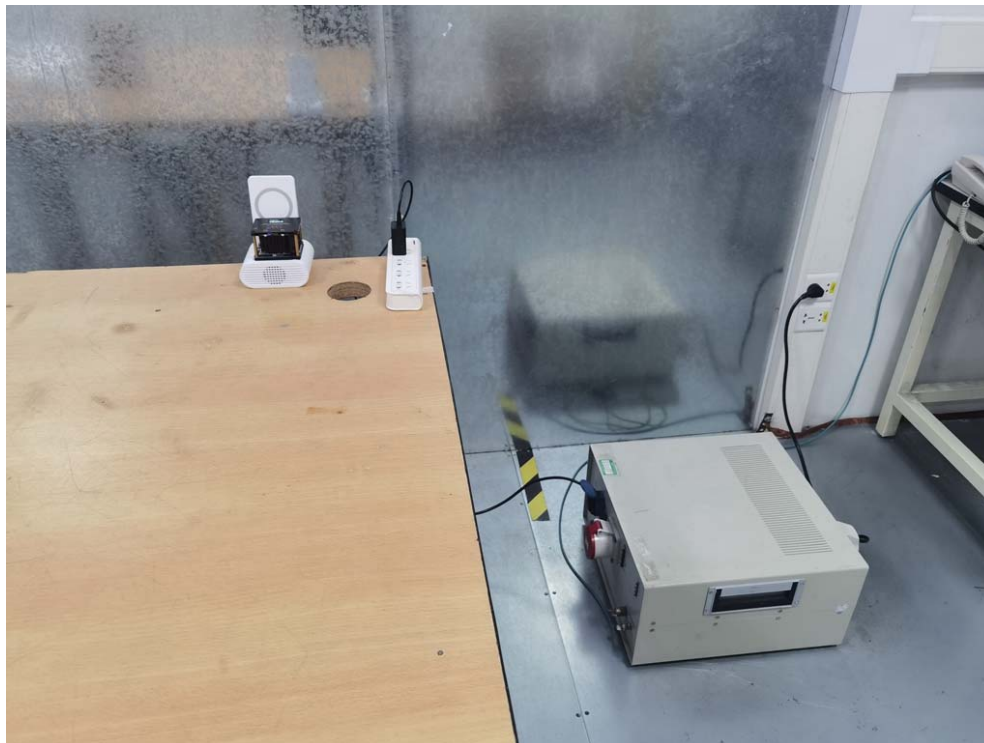
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10.0. Photo of testing

10.1 Conducted test View



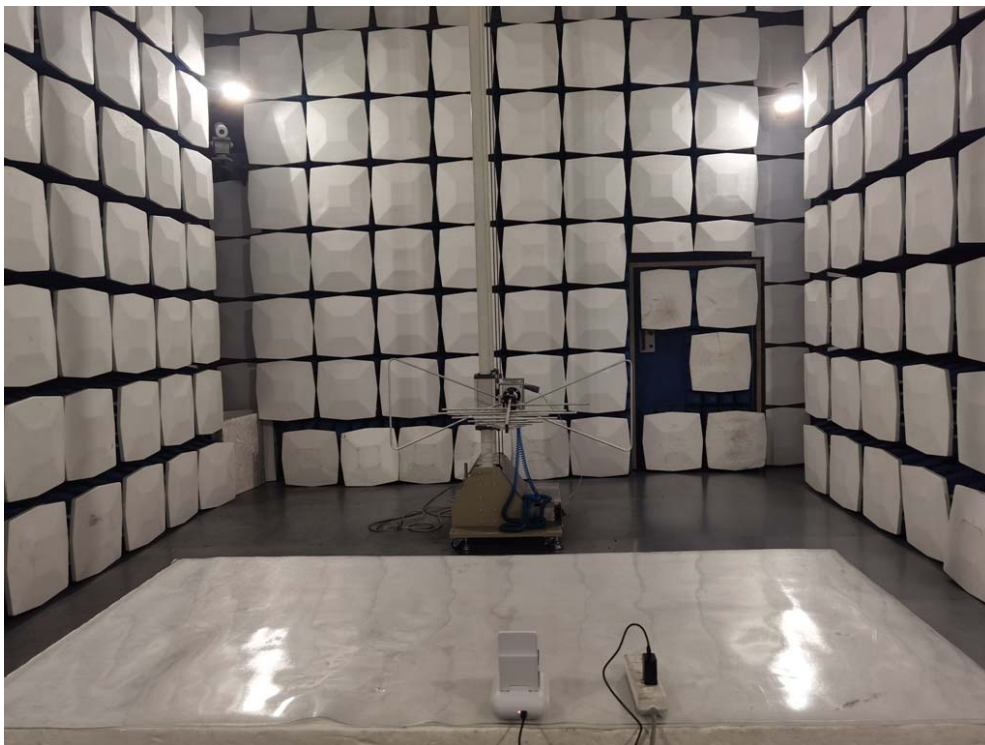
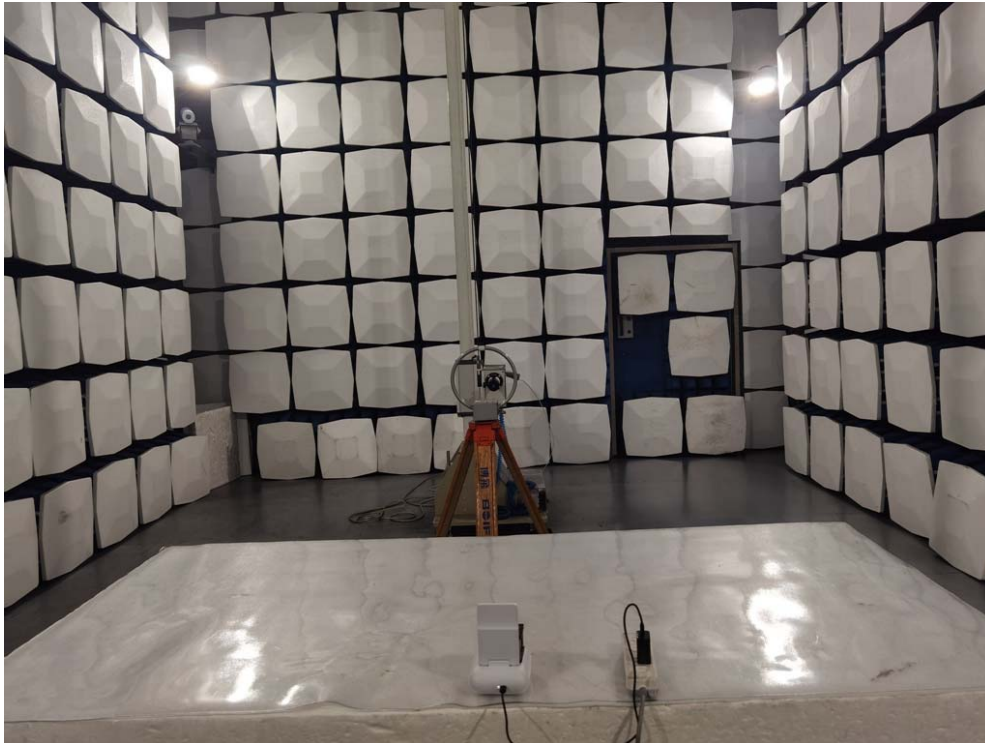
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10.2 Radiated emission test view



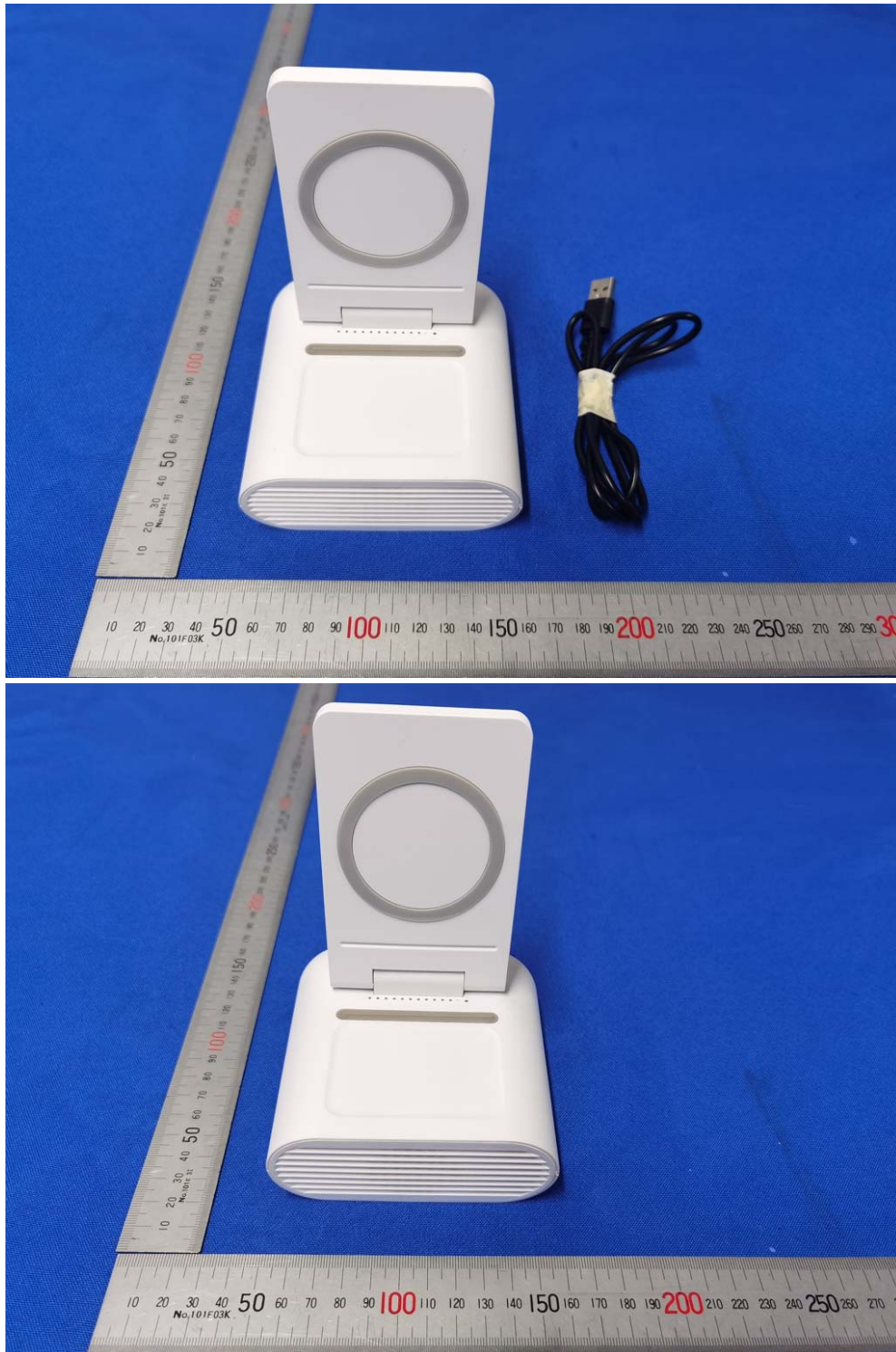
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Outside View



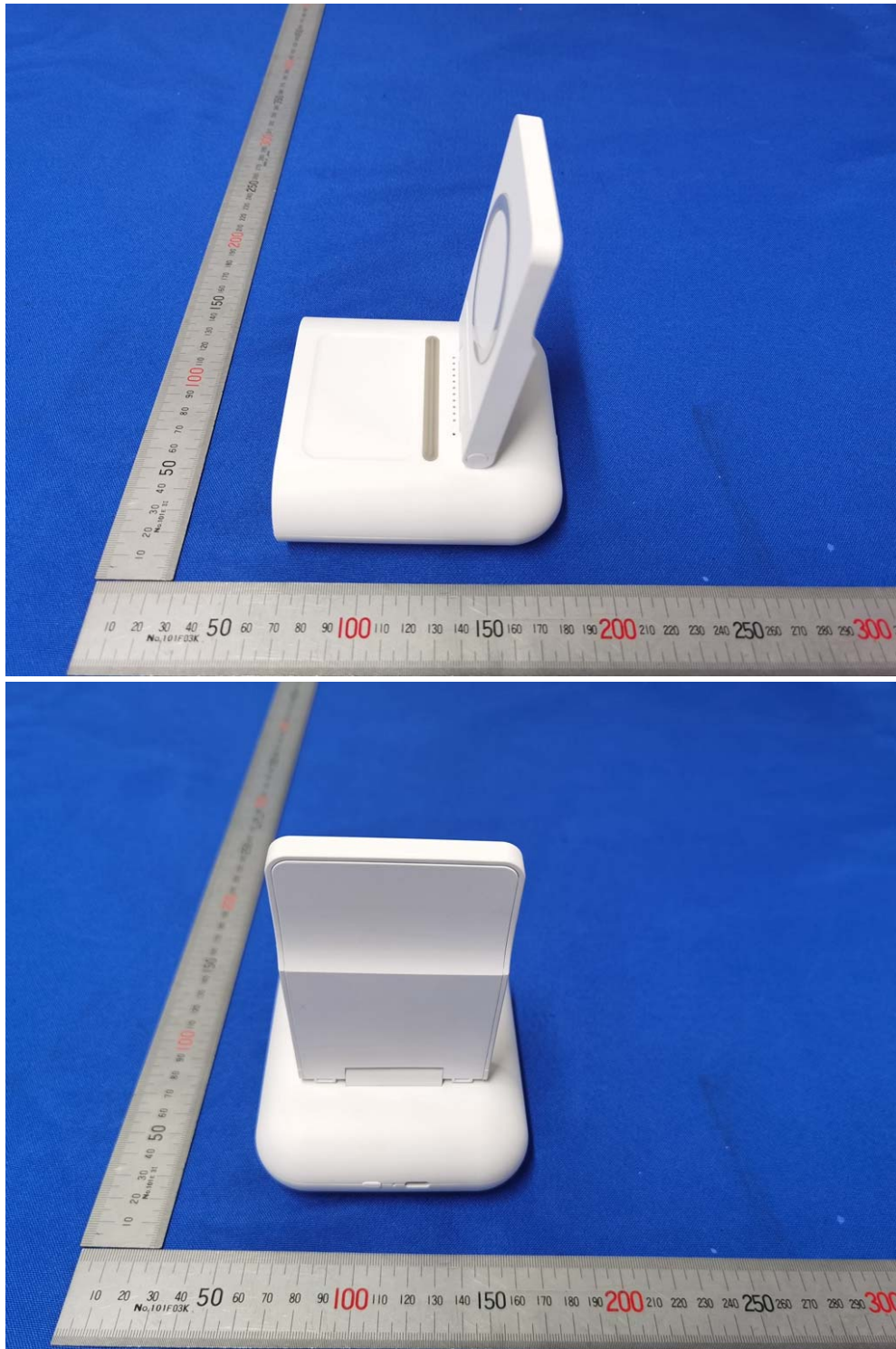
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Outside View



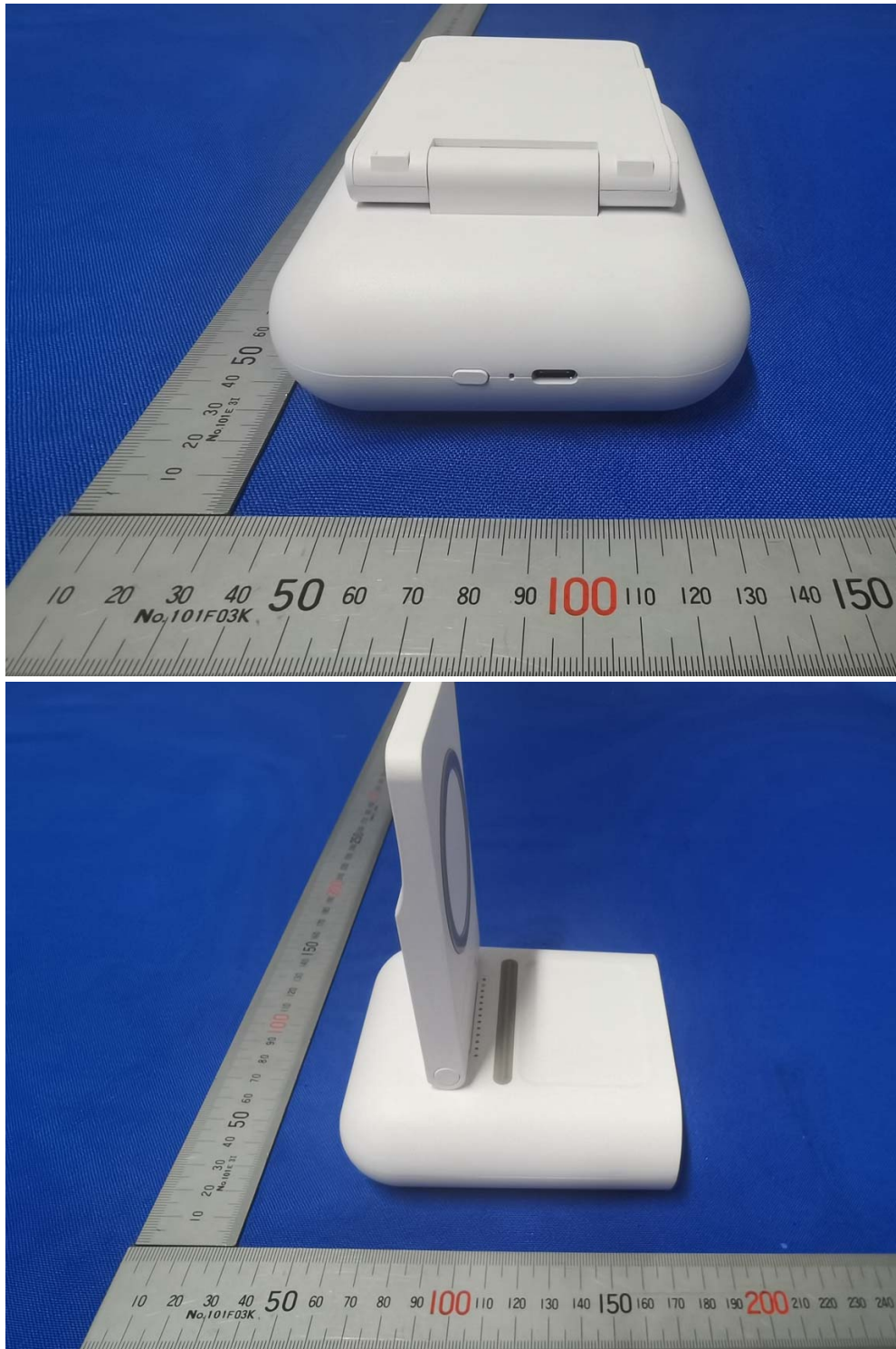
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Outside View



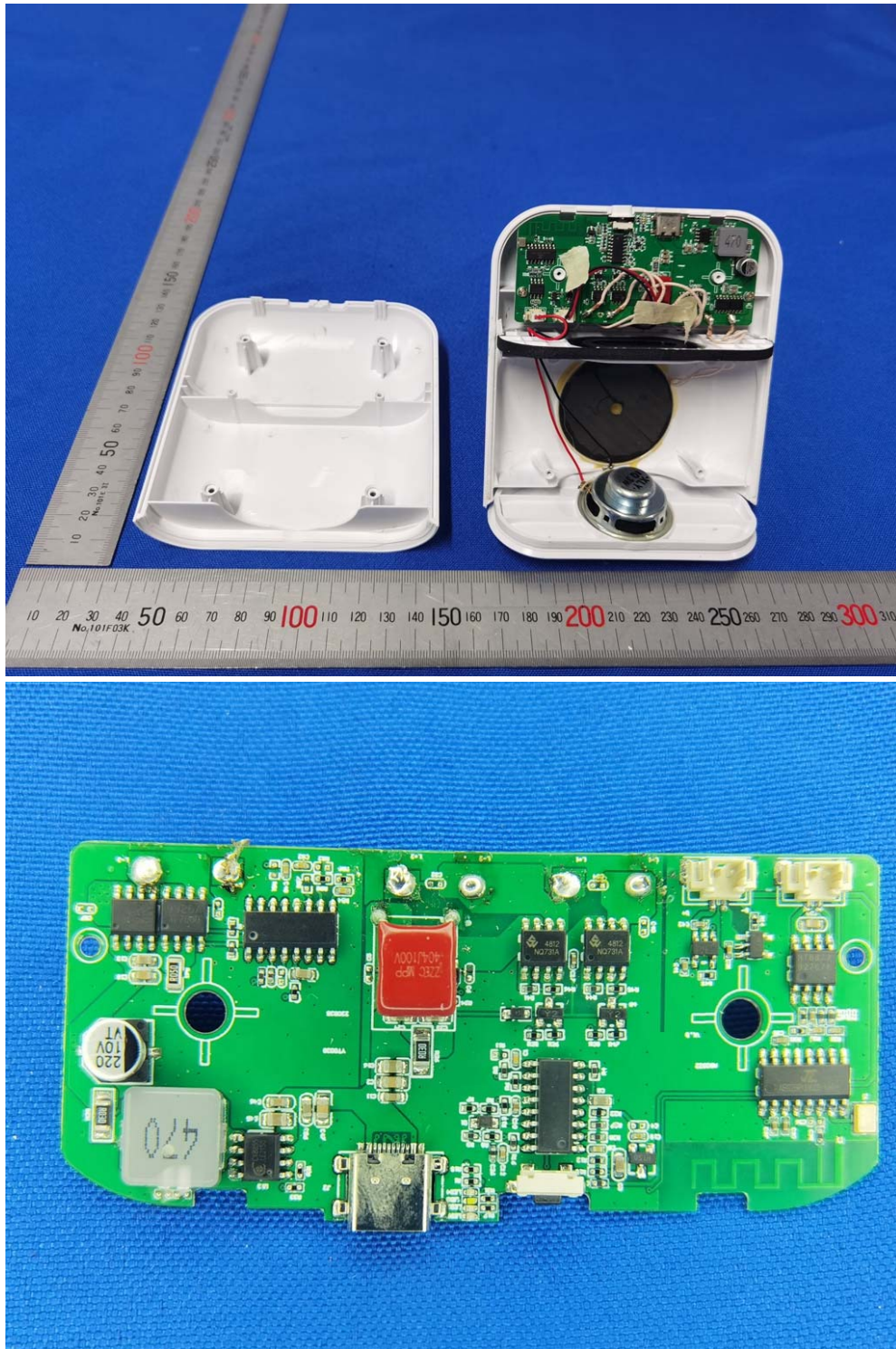
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Inside View



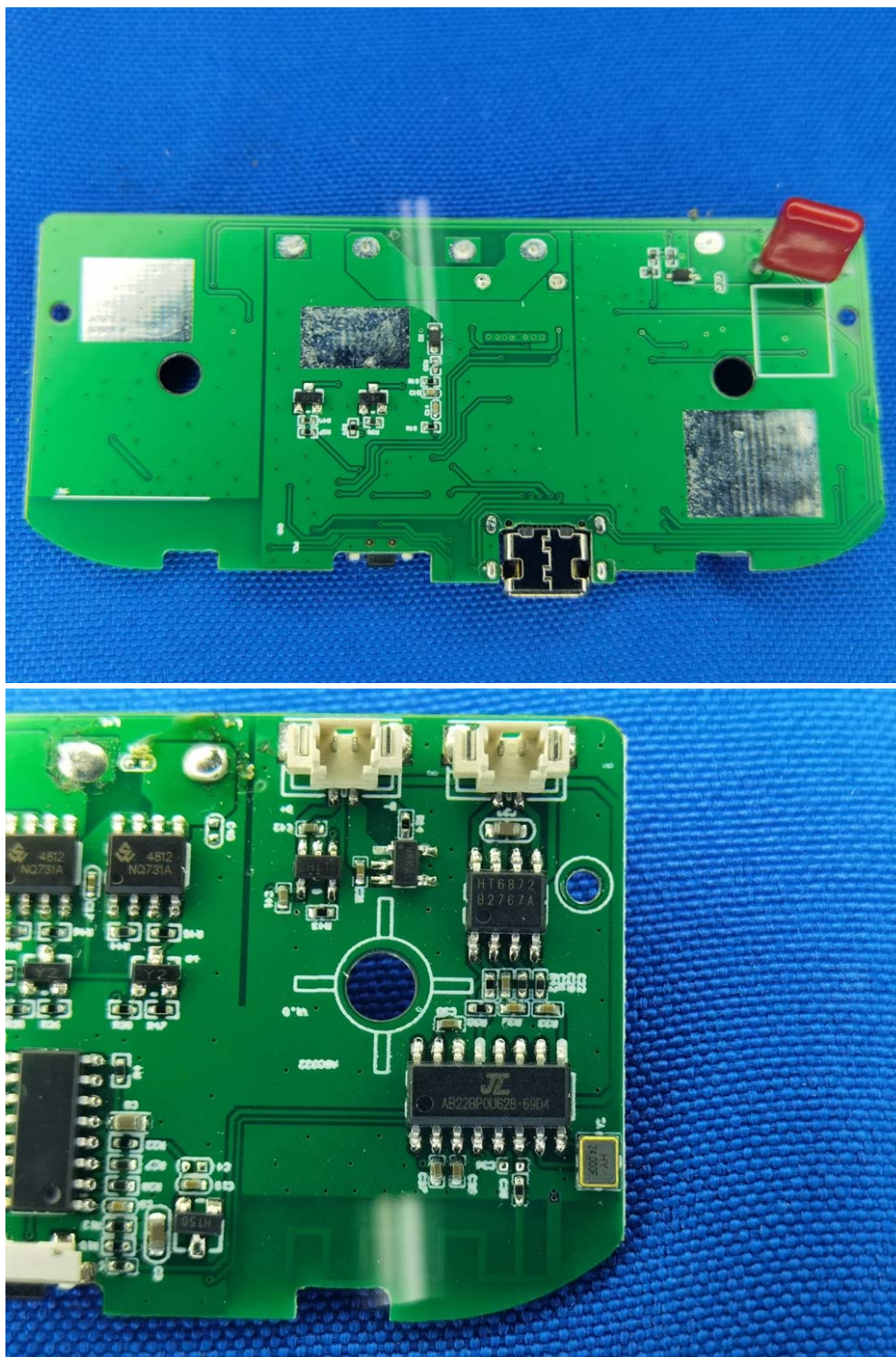
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Inside View



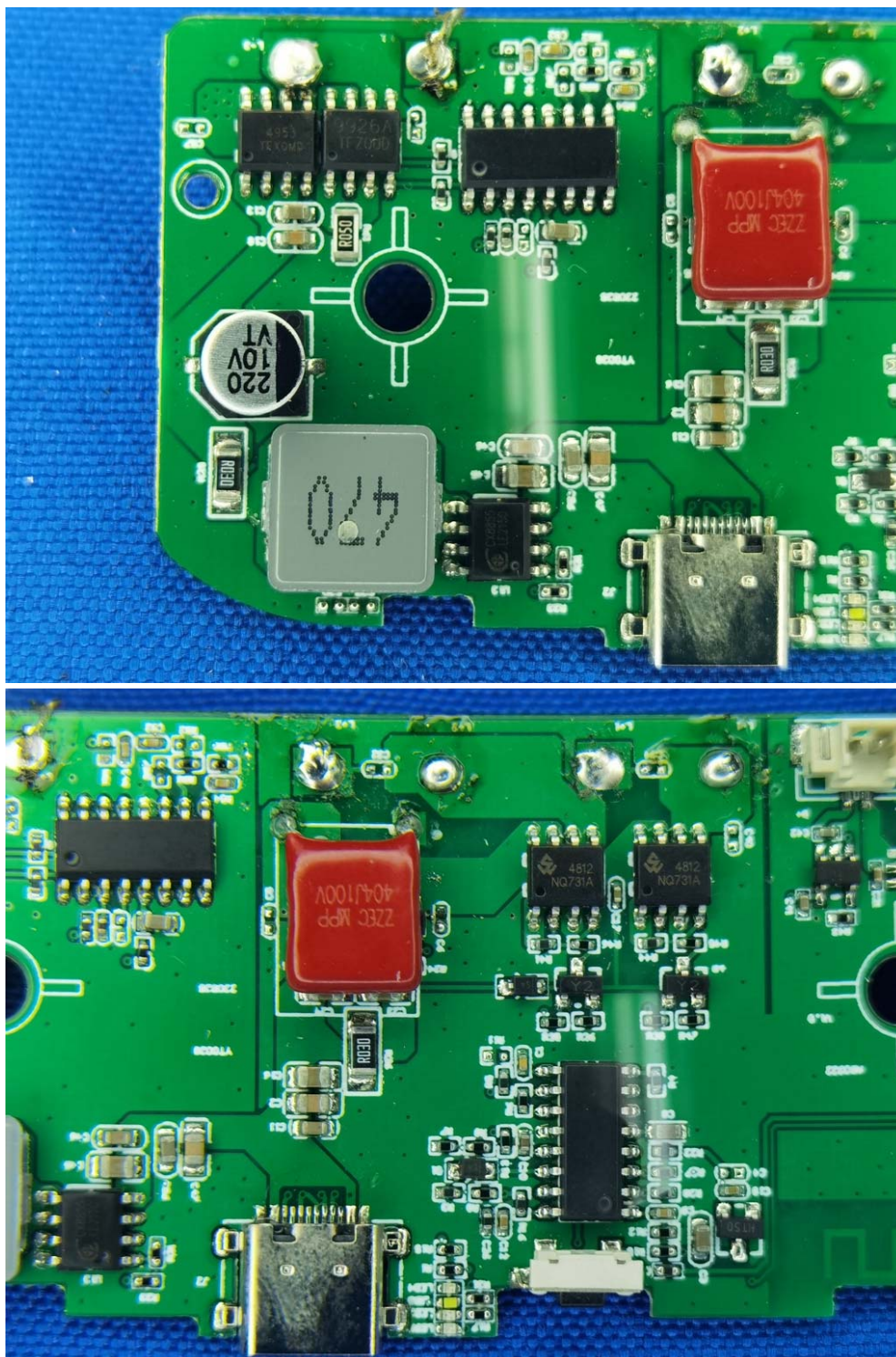
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Inside View



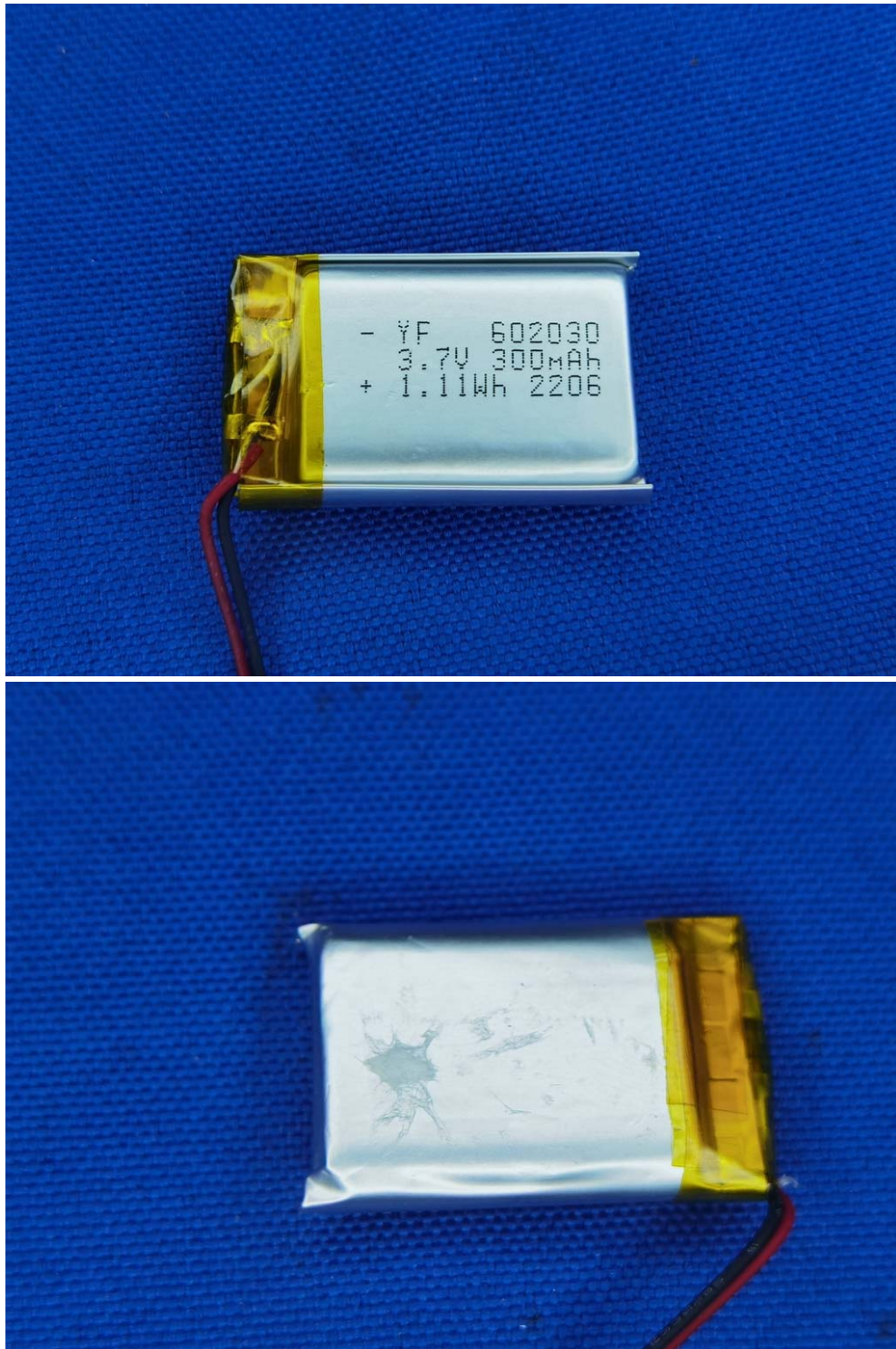
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Inside View



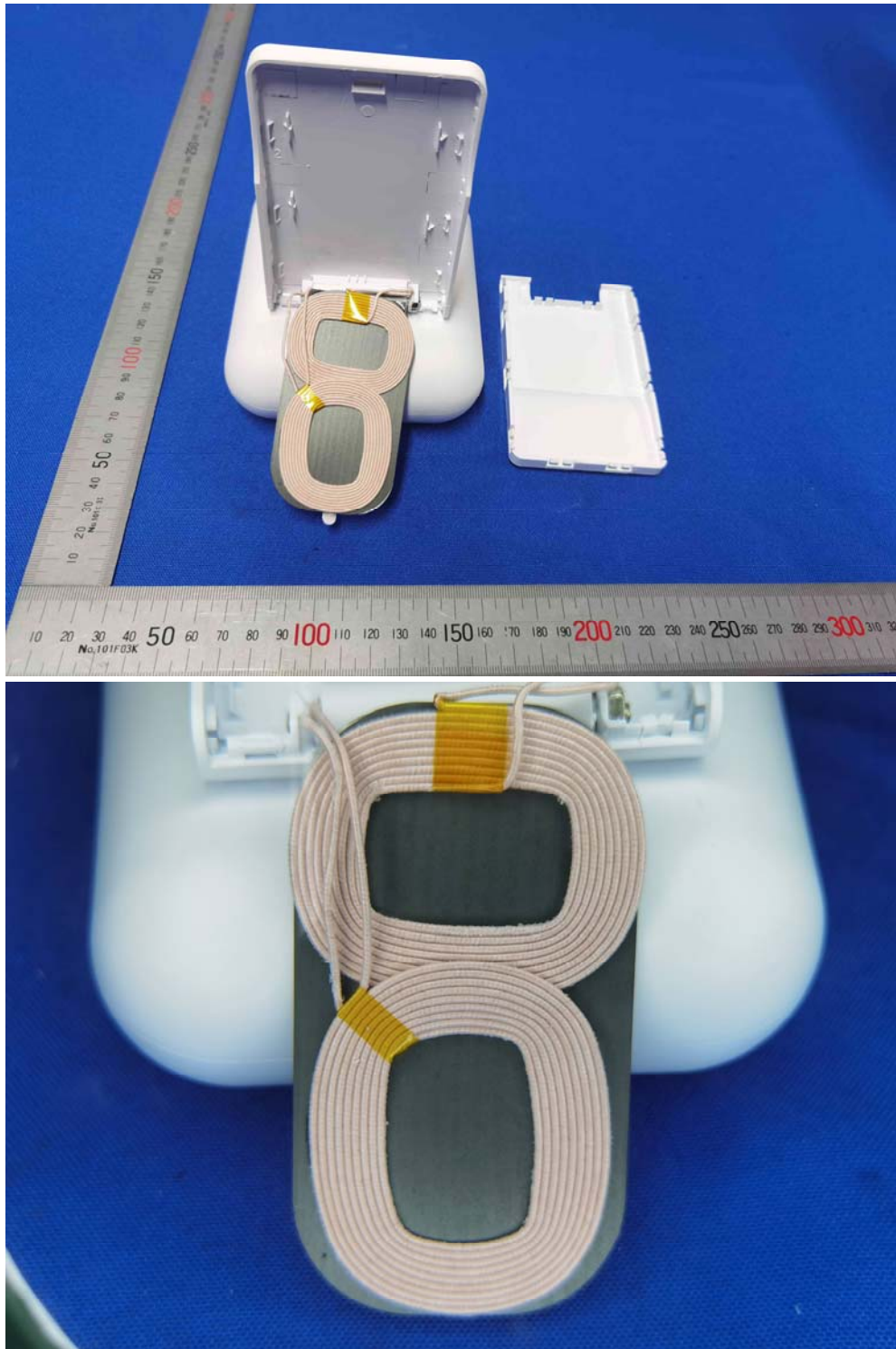
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Inside View



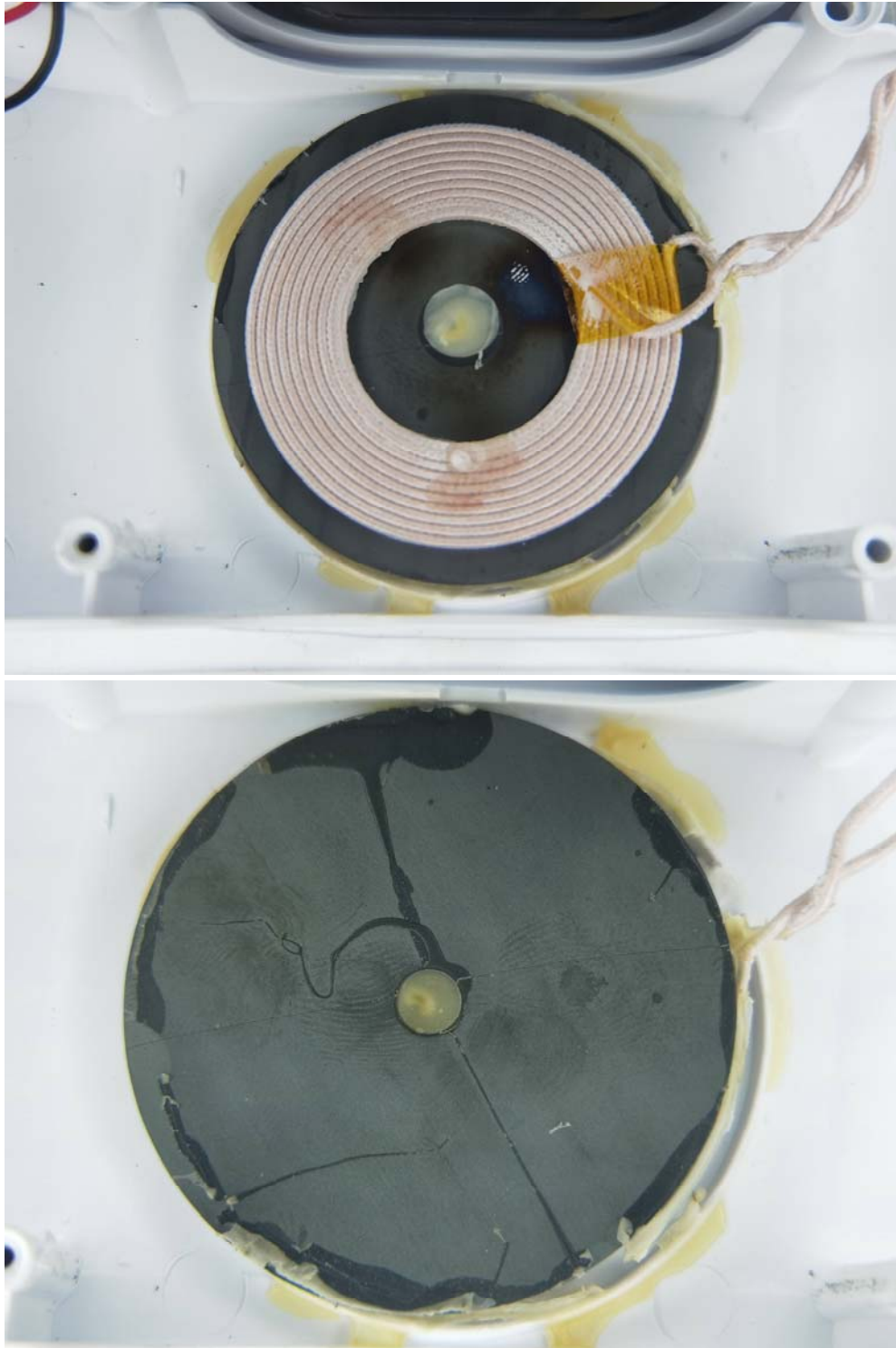
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Inside View



-End of the report-

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