

FCC TEST REPORT

Client Name : Sariana LLC

Address : 7365 Mission Gorge Road Suite G, San Diego, CA 92120
U.S.A.

Product Name : USB-C 2-in-1 Wireless Charging Dock

Date : Mar. 03, 2020

Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : Sariana LLC
Manufacturer : Sariana LLC
Product Name : USB-C 2-in-1 Wireless Charging Dock
Model No. : ST-UC2WCDM, ST-UC2WCDS
Trade Mark : S A T E C H I
Rating(s) : Input: DC 5V, 1.5A
Apple Watch Magnetic Charger Output: 2.5W
AirPods Charger Output: 5W

Test Standard(s) : FCC Part15 Subpart C 2018, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Jan. 07, 2020

Date of Test

Jan. 07~Feb. 21, 2020

Prepared By



Dolly mo

(Engineer / Dolly Mo)

Reviewer

Bibo Zhang

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

Tom Chen

(Manager / Tom Chen)



1. General Information

1.1. Client Information

Applicant	:	Sariana LLC
Address	:	7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A.
Manufacturer	:	Sariana LLC
Address	:	7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A.
Factory	:	Sariana LLC
Address	:	7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A.

1.2. Description of Device (EUT)

Product Name	:	USB-C 2-in-1 Wireless Charging Dock	
Model No.	:	ST-UC2WCDM, ST-UC2WCDS (Note: All samples are the same except the model number & appearance, so we prepare "ST-UC2WCDM" for test only.)	
Trade Mark	:	S A T E C H I	
Test Power Supply	:	AC 120V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-1(Engineering Sample)	
Product Description	:	Operation Frequency:	Apple Watch Magnetic Charger: 110.1-205KHz AirPods Charger: 110.1-205KHz
	:	Modulation Type:	FSK
	:	Antenna Type:	Inductive loop coil Antenna
	:	Antenna Gain(Peak):	0 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Notebook	:	Product: AppleMacBook
		M/N: A1708
		CMIIT ID:2016AJ5746
		Input Rating: 20.3V/3A
		Adapter:
		Input: 100-240V, 50-60HZ, 1.5A Output: 20.3V/3A (USB PD) or 9V/3A(USB PD) or 5.2V/2.4A
Apple Watch		Manufacturer: Apple
Airpods	:	Manufacturer: Apple

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Full load, Power Bank module

For Conducted Emission	
Final Test Mode	Description
Mode 1	Full load, Power Bank module

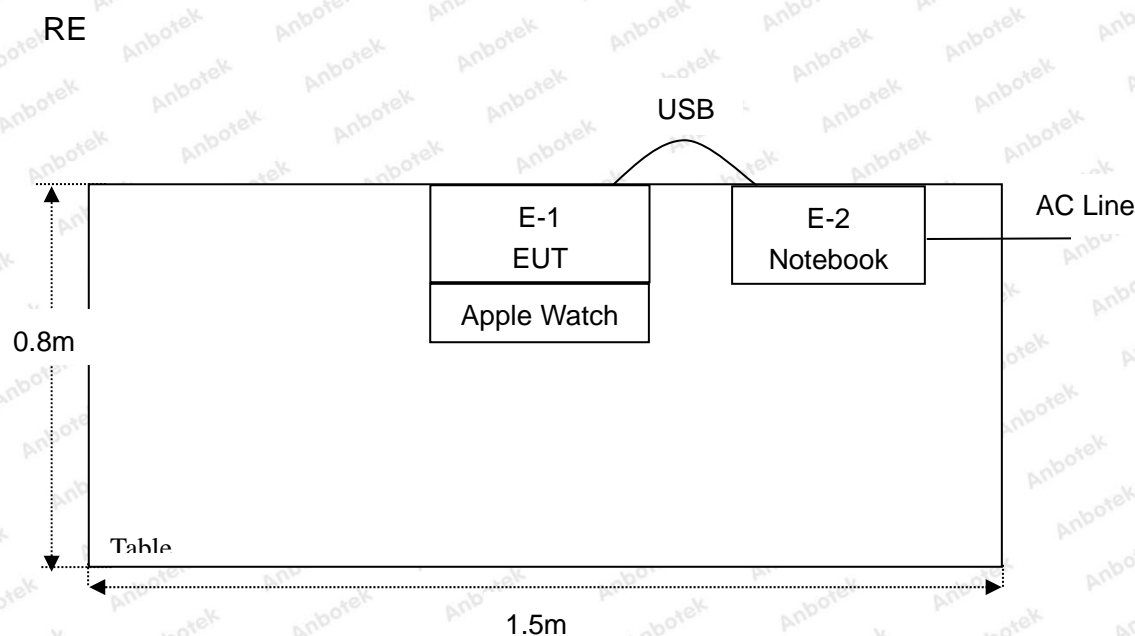
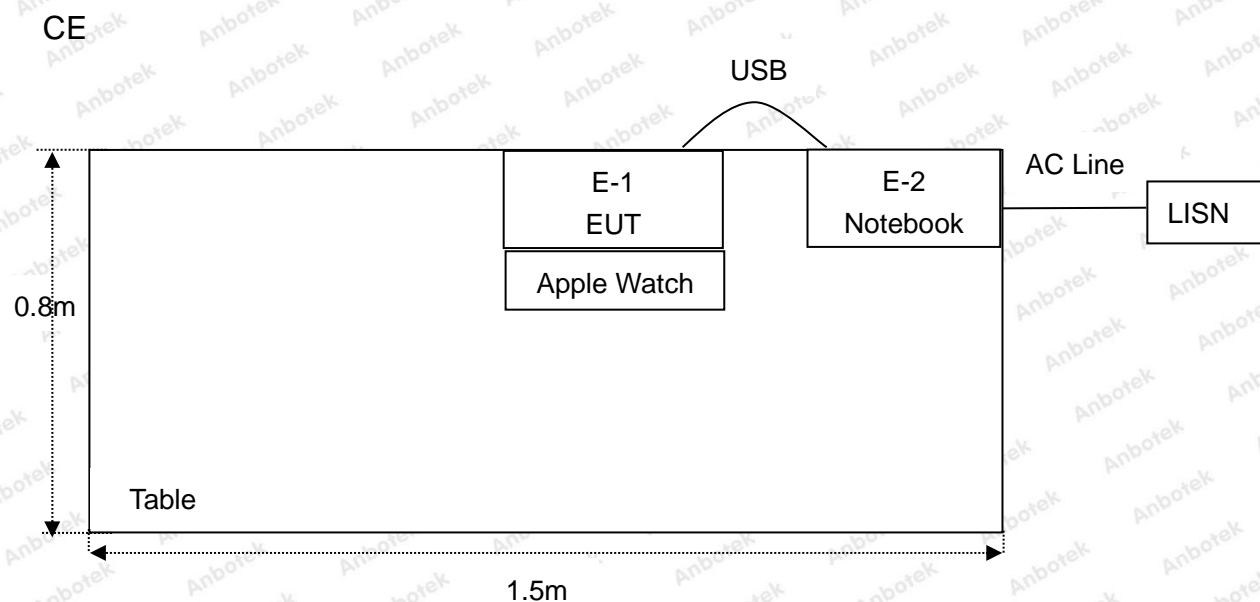
For Radiated Emission	
Final Test Mode	Description
Mode 1	Full load, Power Bank module

Note: (1)Test channel of Apple Watch Magnetic Charger is 0.1272MHz.

AirPods Charger: 0.1282MHz.

(2)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) was recorded in the report.

1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year



1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, 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. 184111, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

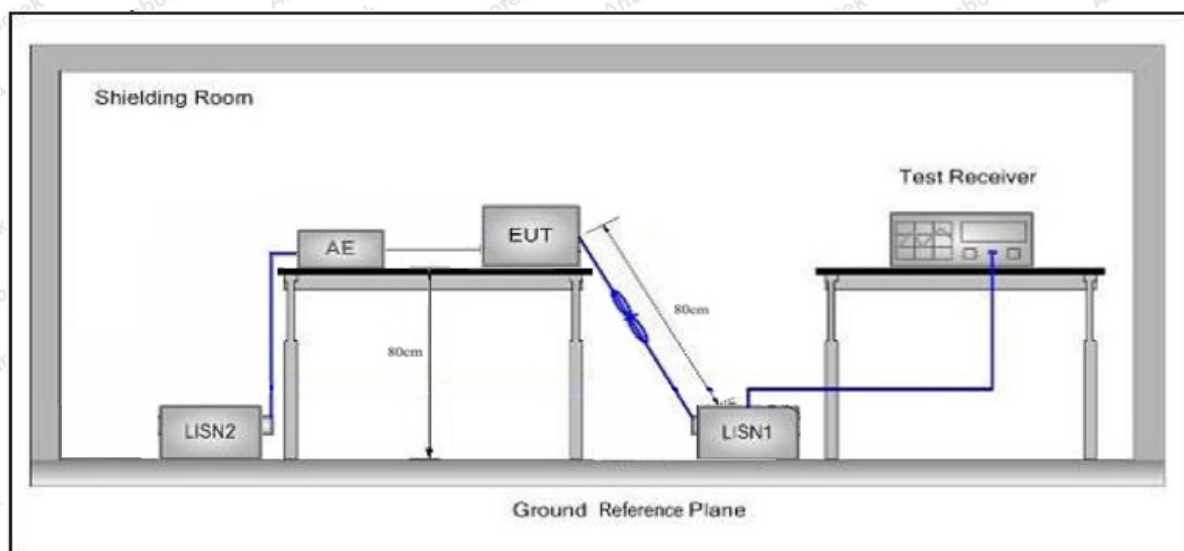


3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

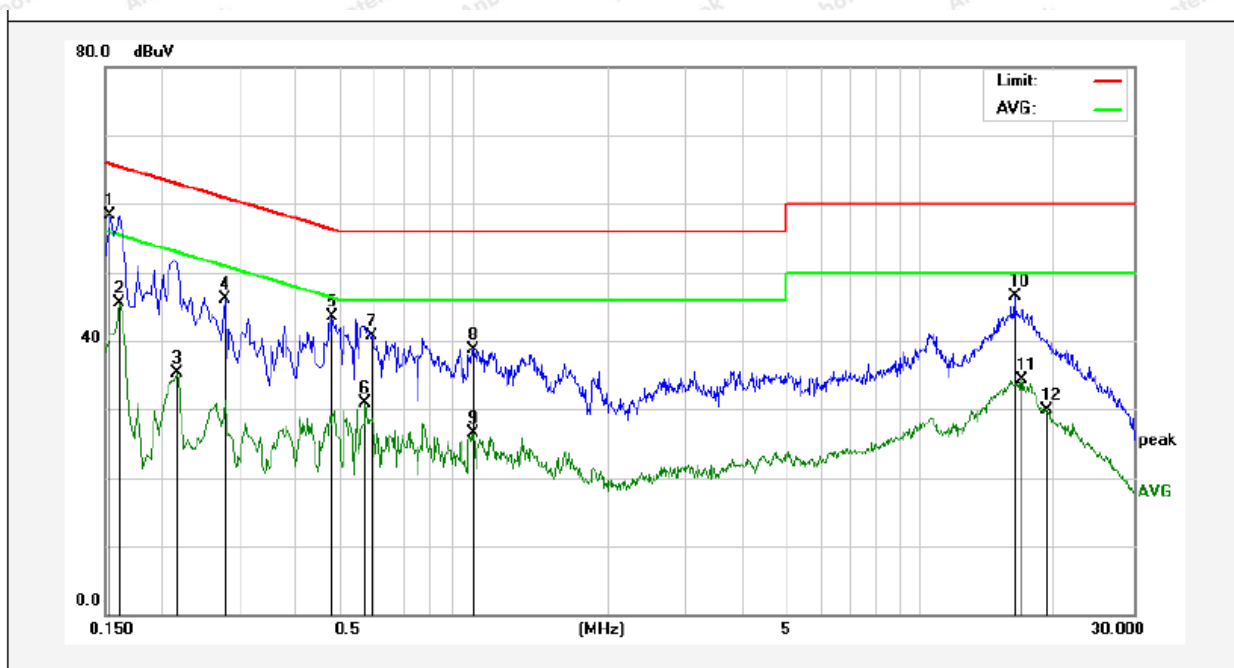
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

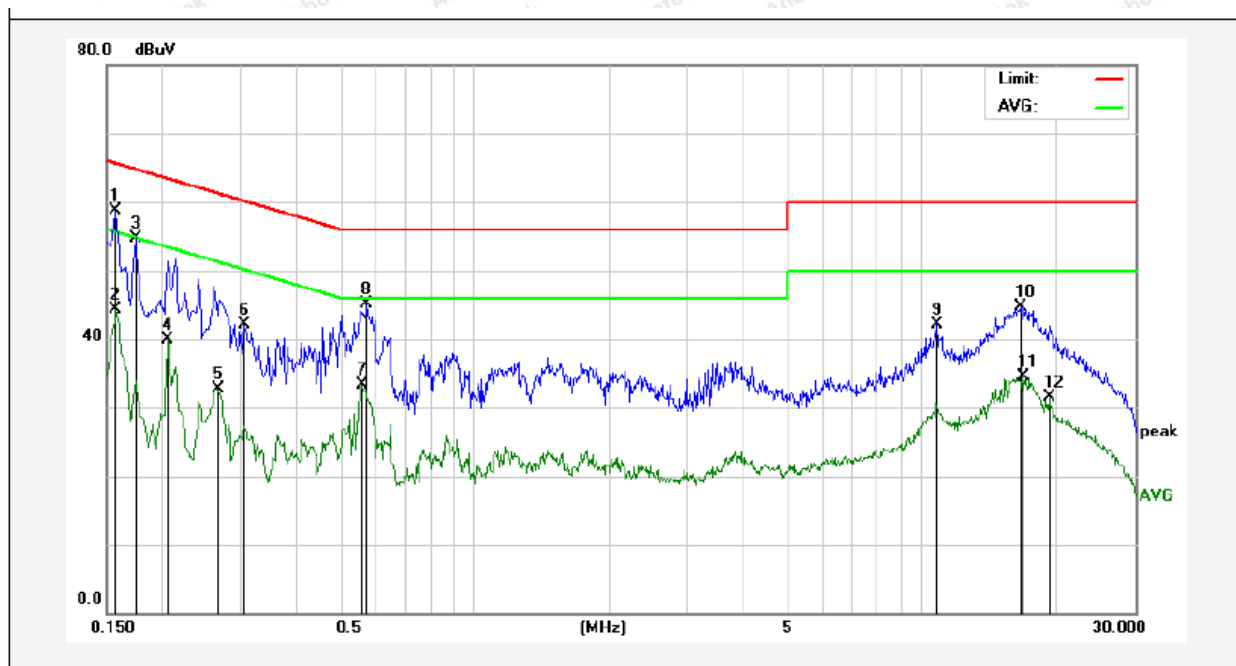
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.6°C Hum.: 48%
Note: Apple Watch Magnetic Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	38.47	19.90	58.37	65.78	-7.41	QP	
2	0.1620	25.64	19.90	45.54	55.36	-9.82	AVG	
3	0.2180	15.36	19.90	35.26	52.89	-17.63	AVG	
4	0.2779	26.20	19.89	46.09	60.88	-14.79	QP	
5	0.4860	23.52	19.97	43.49	56.24	-12.75	QP	
6	0.5740	10.95	20.00	30.95	46.00	-15.05	AVG	
7	0.5940	20.73	20.01	40.74	56.00	-15.26	QP	
8	1.0020	18.68	20.12	38.80	56.00	-17.20	QP	
9	1.0020	6.41	20.12	26.53	46.00	-19.47	AVG	
10	16.2420	26.16	20.28	46.44	60.00	-13.56	QP	
11	16.9020	14.07	20.29	34.36	50.00	-15.64	AVG	
12	19.0580	9.59	20.32	29.91	50.00	-20.09	AVG	

Conducted Emission Test Data

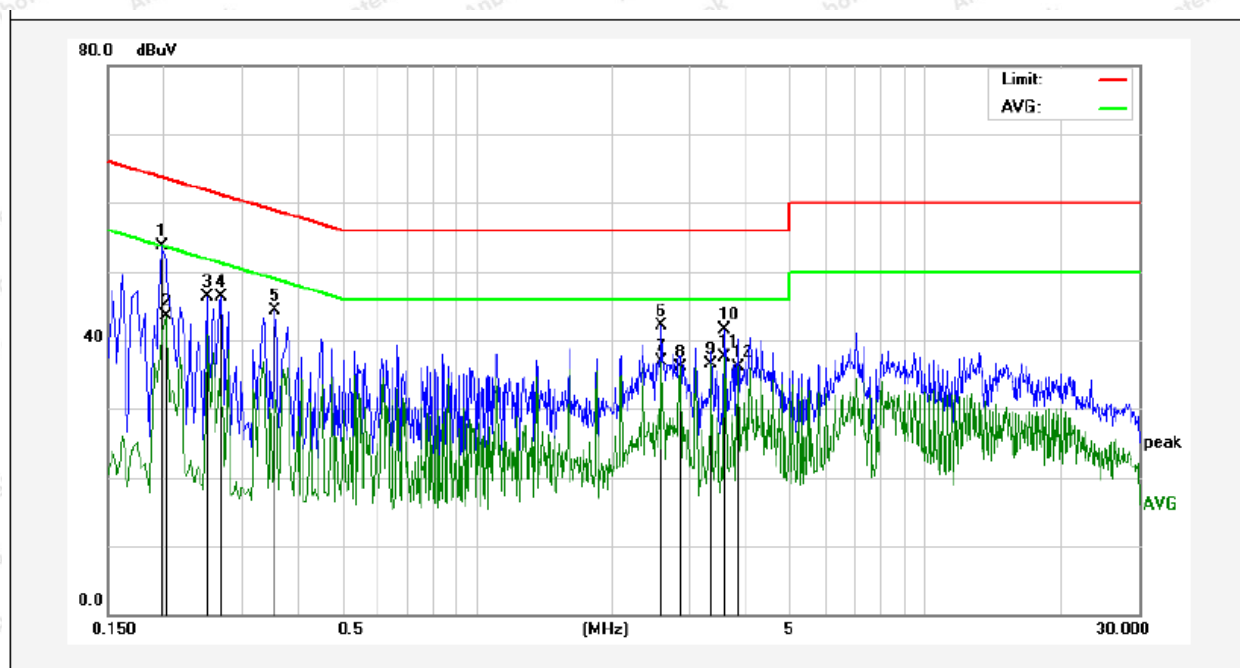
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.6°C Hum.: 48%
Note: Apple Watch Magnetic Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	38.86	19.90	58.76	65.56	-6.80	QP	
2	0.1580	24.34	19.90	44.24	55.56	-11.32	AVG	
3	0.1740	34.88	19.90	54.78	64.76	-9.98	QP	
4	0.2060	19.98	19.90	39.88	53.36	-13.48	AVG	
5	0.2660	12.77	19.89	32.66	51.24	-18.58	AVG	
6	0.3060	22.24	19.89	42.13	60.08	-17.95	QP	
7	0.5620	13.34	20.00	33.34	46.00	-12.66	AVG	
8	0.5740	25.09	20.00	45.09	56.00	-10.91	QP	
9	10.8180	21.87	20.33	42.20	60.00	-17.80	QP	
10	16.7099	24.33	20.29	44.62	60.00	-15.38	QP	
11	16.8779	14.17	20.29	34.46	50.00	-15.54	AVG	
12	19.2460	11.10	20.33	31.43	50.00	-18.57	AVG	

Conducted Emission Test Data

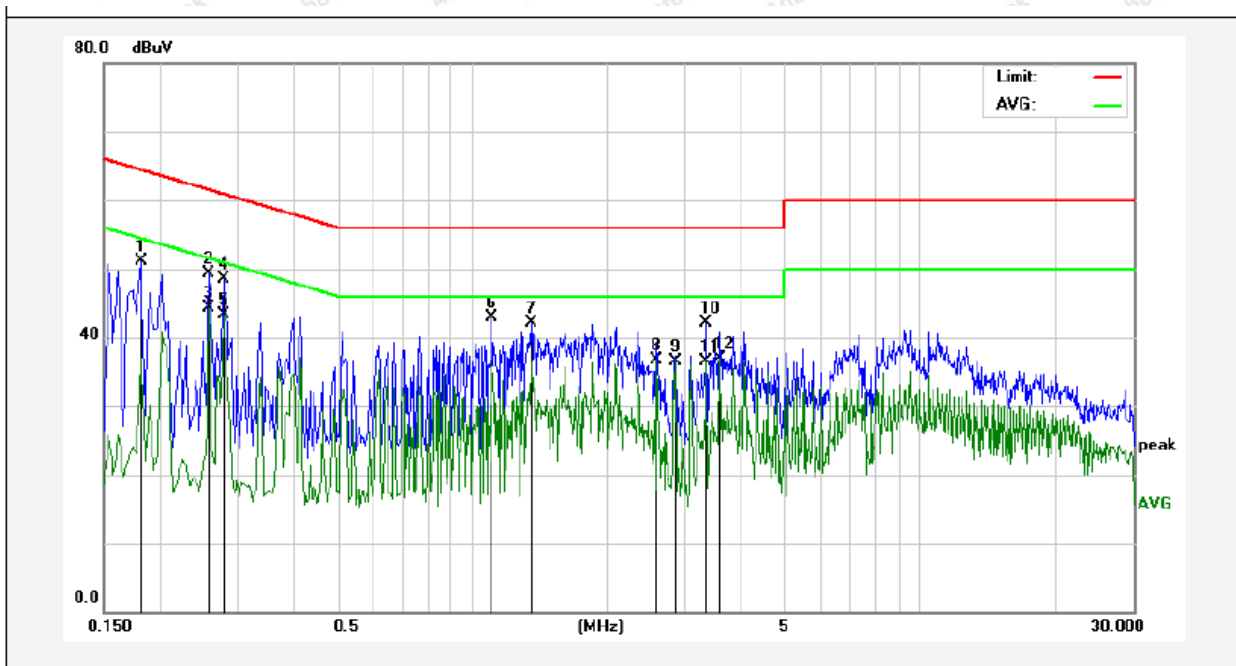
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.6°C Hum.: 48%
Note: AirPods Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1980	33.89	19.90	53.79	63.69	-9.90	QP	
2	0.2020	23.66	19.90	43.56	53.52	-9.96	AVG	
3	0.2500	26.51	19.89	46.40	61.75	-15.35	QP	
4	0.2700	26.48	19.89	46.37	61.12	-14.75	QP	
5	0.3540	24.32	19.91	44.23	58.87	-14.64	QP	
6	2.5940	21.99	20.15	42.14	56.00	-13.86	QP	
7	2.5940	16.85	20.15	37.00	46.00	-9.00	AVG	
8	2.8420	15.89	20.16	36.05	46.00	-9.95	AVG	
9	3.3340	16.27	20.17	36.44	46.00	-9.56	AVG	
10	3.5820	21.39	20.17	41.56	56.00	-14.44	QP	
11	3.5820	17.25	20.17	37.42	46.00	-8.58	AVG	
12	3.8300	15.85	20.18	36.03	46.00	-9.97	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 24.6°C Hum.: 48%
 Note: AirPods Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1819	31.29	19.90	51.19	64.39	-13.20	QP	
2	0.2580	29.48	19.89	49.37	61.49	-12.12	QP	
3	0.2580	24.48	19.89	44.37	51.49	-7.12	AVG	
4	0.2779	28.66	19.89	48.55	60.88	-12.33	QP	
5	0.2779	23.34	19.89	43.23	50.88	-7.65	AVG	
6	1.1100	22.75	20.12	42.87	56.00	-13.13	QP	
7	1.3580	21.99	20.13	42.12	56.00	-13.88	QP	
8	2.5940	16.62	20.15	36.77	46.00	-9.23	AVG	
9	2.8420	16.30	20.16	36.46	46.00	-9.54	AVG	
10	3.3300	21.87	20.17	42.04	56.00	-13.96	QP	
11	3.3300	16.33	20.17	36.50	46.00	-9.50	AVG	
12	3.5780	16.79	20.17	36.96	46.00	-9.04	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	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
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1) The lower limit shall apply at the transition frequency.

(2) 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.

4.2. Test Setup

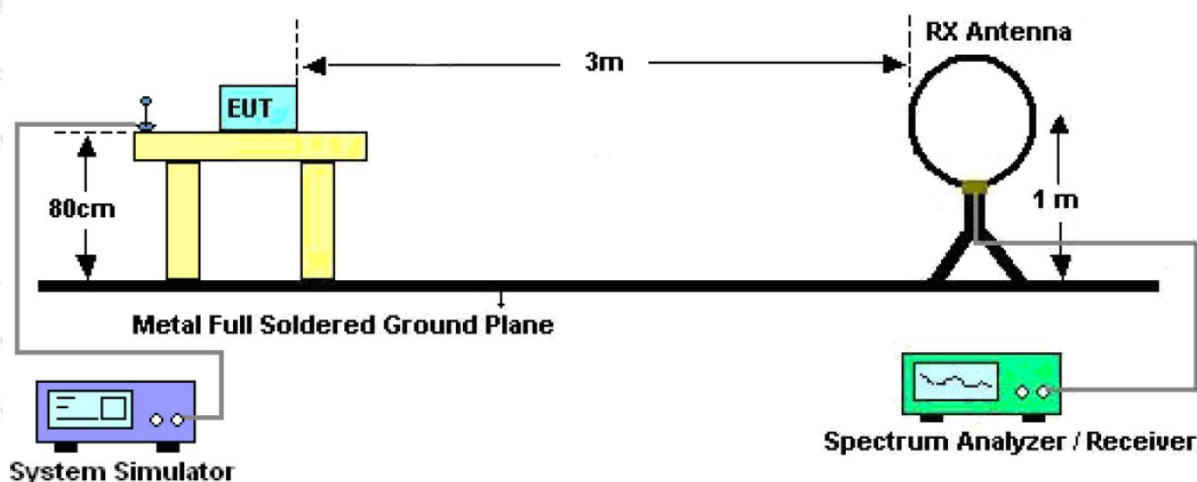


Figure 1. Below 30MHz

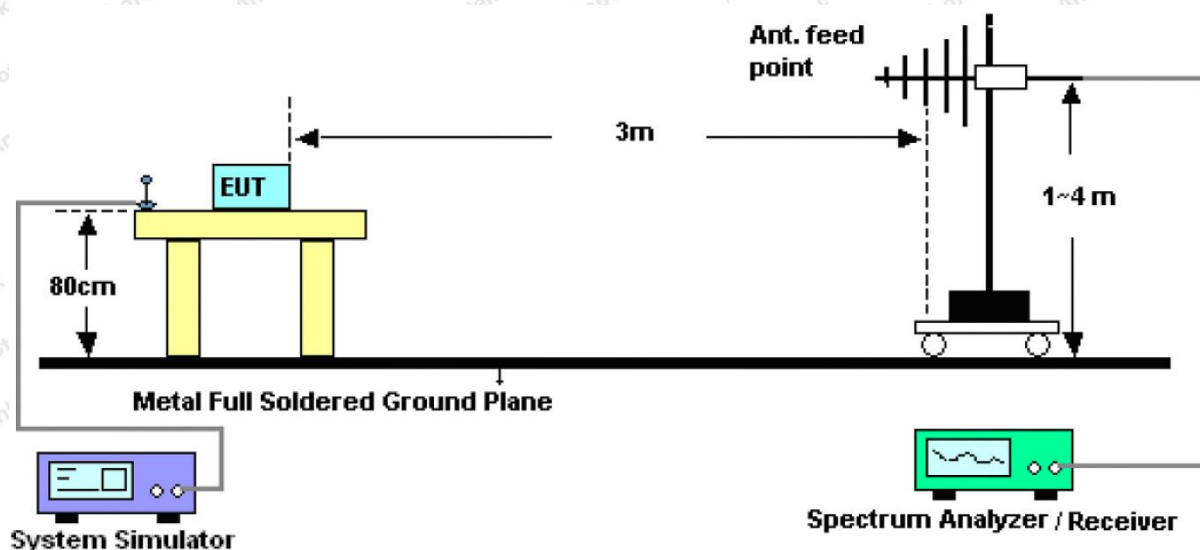


Figure 2. 30MHz to 1GHz

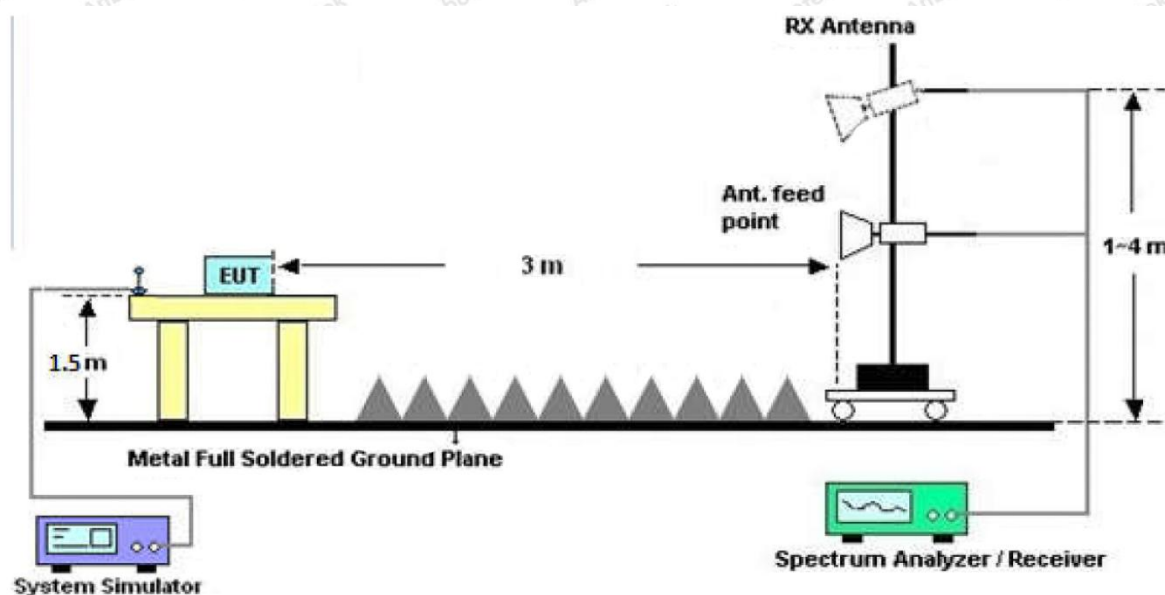


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

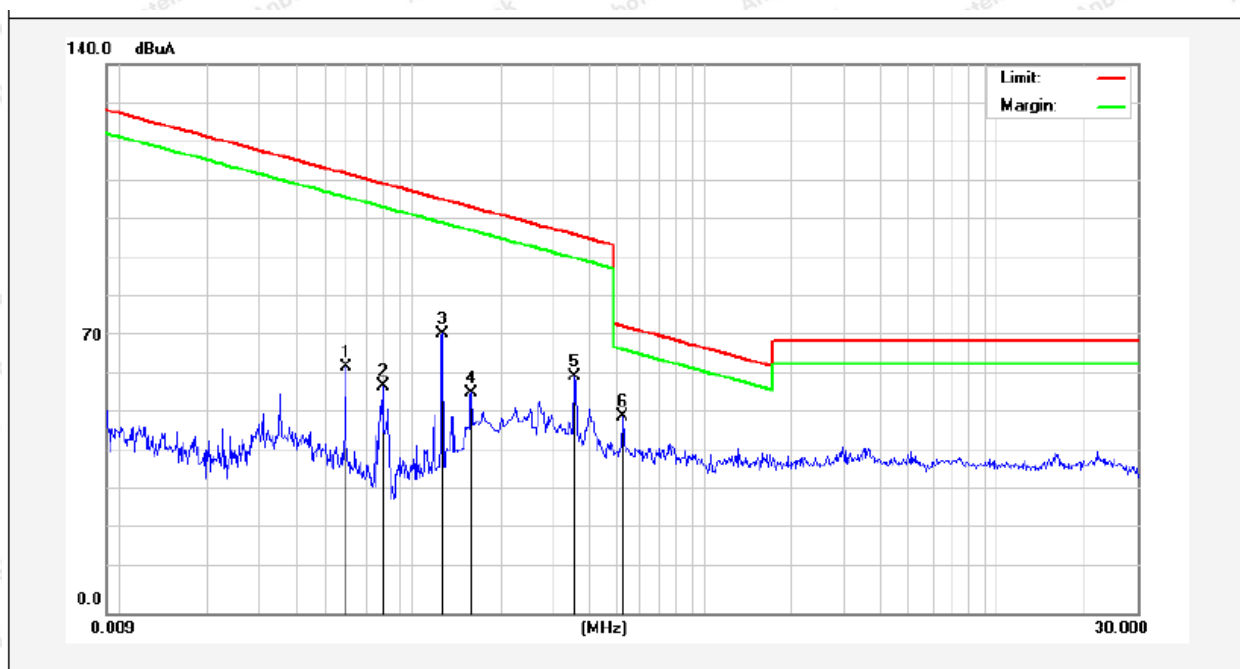
PASS

Note: The data is in TX mode, and this is the worst mode.



Test Results (9K~30MHz)

Test Mode: Mode 1
 Power Source: AC 120V, 60Hz for adapter
 Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
 Distance: 3m
 Note: Apple Watch Magnetic Charger

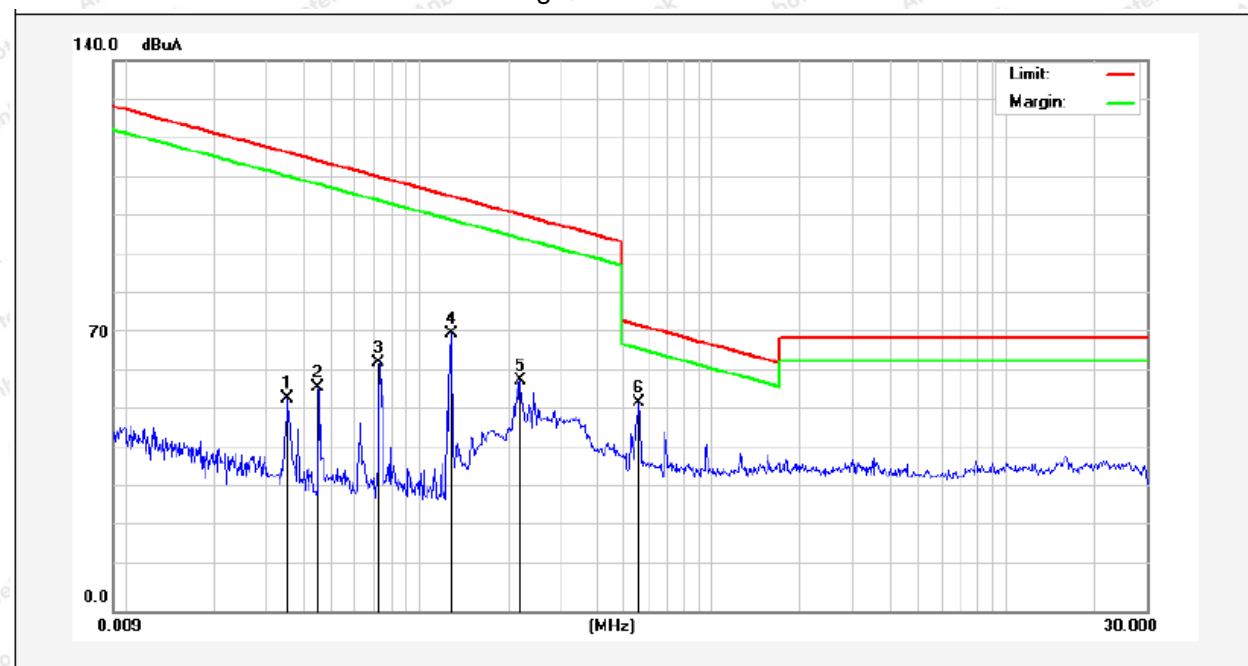


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0592	48.85	19.28	2.53	0	70.66	132.05	-61.39	Peak	263
0.0592	41.00	19.28	2.53	0	62.81	112.05	-49.24	AV	263
0.0792	46.94	19.53	2.59	0	69.06	129.54	-60.48	Peak	145
0.0792	35.90	19.53	2.59	0	58.02	109.54	-51.52	AV	145
0.1272	60.21	19.53	2.59	0	82.33	125.45	-43.12	Peak	63
0.1272	49.13	19.53	2.59	0	71.25	105.45	-34.20	AV	63
0.1590	43.22	19.53	2.59	0	65.34	123.52	-58.18	Peak	228
0.1590	34.08	19.53	2.59	0	56.20	103.52	-47.32	AV	228
0.3578	47.04	19.53	2.59	0	69.16	116.51	-47.35	Peak	306
0.3578	38.32	19.53	2.59	0	60.44	96.51	-36.07	AV	306
0.5260	27.01	20.66	2.63	0	50.30	73.18	-22.88	QP	89

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9~90 kHz, 110~490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Results (9K~30MHz)

Test Mode: Mode 1
 Power Source: AC 120V, 60Hz for adapter
 Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
 Distance: 3m
 Note: AirPods Charger



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0354	43.52	19.28	2.53	0	65.33	136.50	-71.17	Peak	129
0.0354	32.22	19.28	2.53	0	54.03	116.50	-62.47	AV	129
0.0451	45.91	19.28	2.53	0	67.72	134.40	-66.68	Peak	325
0.0451	35.18	19.28	2.53	0	56.99	114.40	-57.41	AV	325
0.0728	50.24	19.53	2.59	0	72.36	130.27	-57.91	Peak	227
0.0728	41.00	19.53	2.59	0	63.12	110.27	-47.15	AV	227
0.1282	59.17	19.53	2.59	0	81.29	125.38	-44.09	Peak	178
0.1282	48.36	19.53	2.59	0	70.48	105.38	-34.90	AV	178
0.2199	45.10	19.53	2.59	0	67.22	120.72	-53.50	Peak	267
0.2199	36.34	19.53	2.59	0	58.46	100.72	-42.26	AV	267
0.5620	29.83	20.66	2.63	0	53.12	72.61	-19.49	QP	28

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

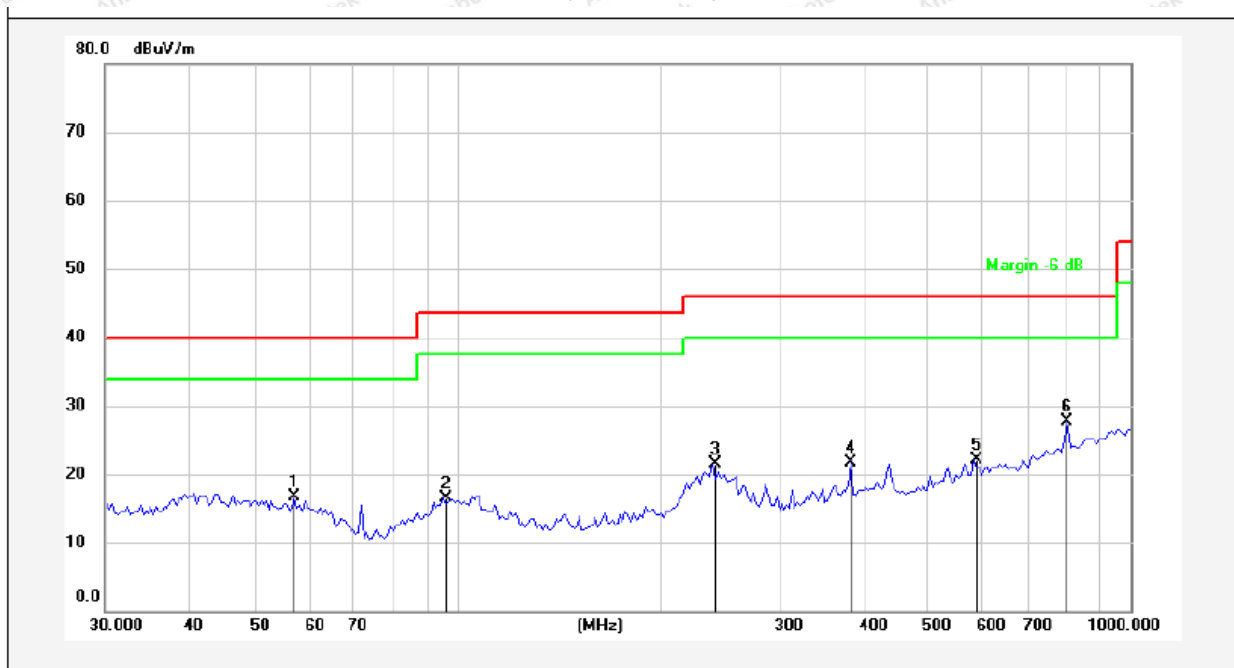
Report No.: 18220WC000035-01

FCC ID: ZE9ST-UC2WCDM

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Test Results (30~1000MHz)

Test Mode: Mode 1
Power Source: AC 120V, 60Hz for adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
Distance: 3m
Note: Apple Watch Magnetic Charger

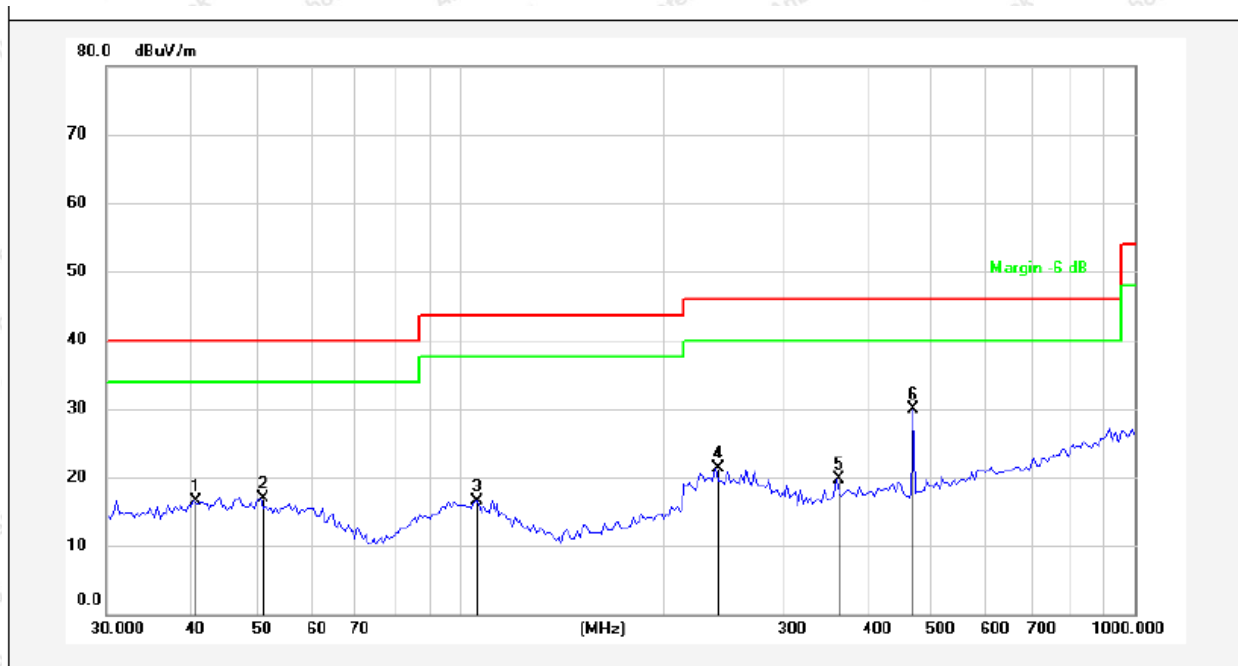


No.	Freq. (MHz)	Reading (dBuV)	Factor (°)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	57.3923	32.87	-16.26	16.61	40.00	-23.39	peak			
2	95.4270	32.48	-16.01	16.47	43.50	-27.03	peak			
3	239.5670	37.74	-16.22	21.52	46.00	-24.48	peak			
4	384.6055	36.96	-15.16	21.80	46.00	-24.20	peak			
5	585.8157	34.48	-12.42	22.06	46.00	-23.94	peak			
6	803.1933	36.53	-8.90	27.63	46.00	-18.37	peak			



Test Results (30~1000MHz)

Test Mode: Mode 1
Power Source: AC 120V, 60Hz for adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
Distance: 3m
Note: Apple Watch Magnetic Charger

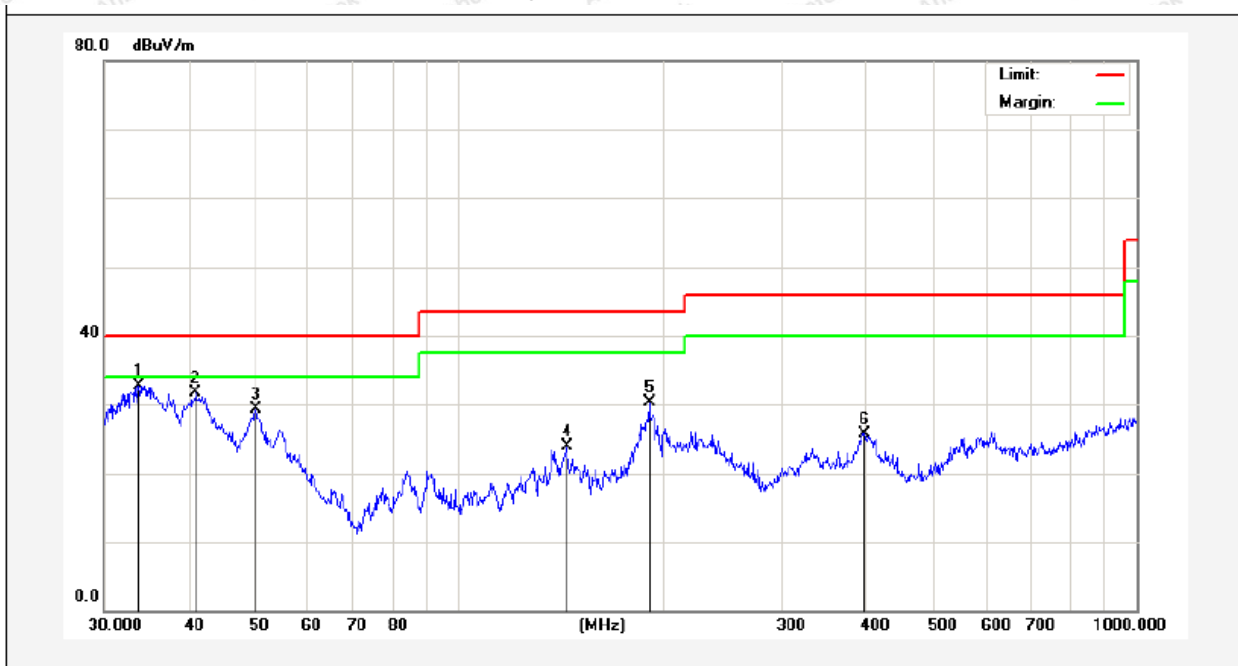


No.	Freq. (MHz)	Reading (dBuV)	Factor (°)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.4172	32.98	-16.57	16.41	40.00	-23.59	peak			
2	50.7637	33.81	-16.95	16.86	40.00	-23.14	peak			
3	106.0126	38.62	-22.21	16.41	43.50	-27.09	peak			
4	239.5670	41.52	-20.24	21.28	46.00	-24.72	peak			
5	361.7139	36.24	-16.45	19.79	46.00	-26.21	peak			
6	470.5232	44.87	-15.06	29.81	46.00	-16.19	peak			



Test Results (30~1000MHz)

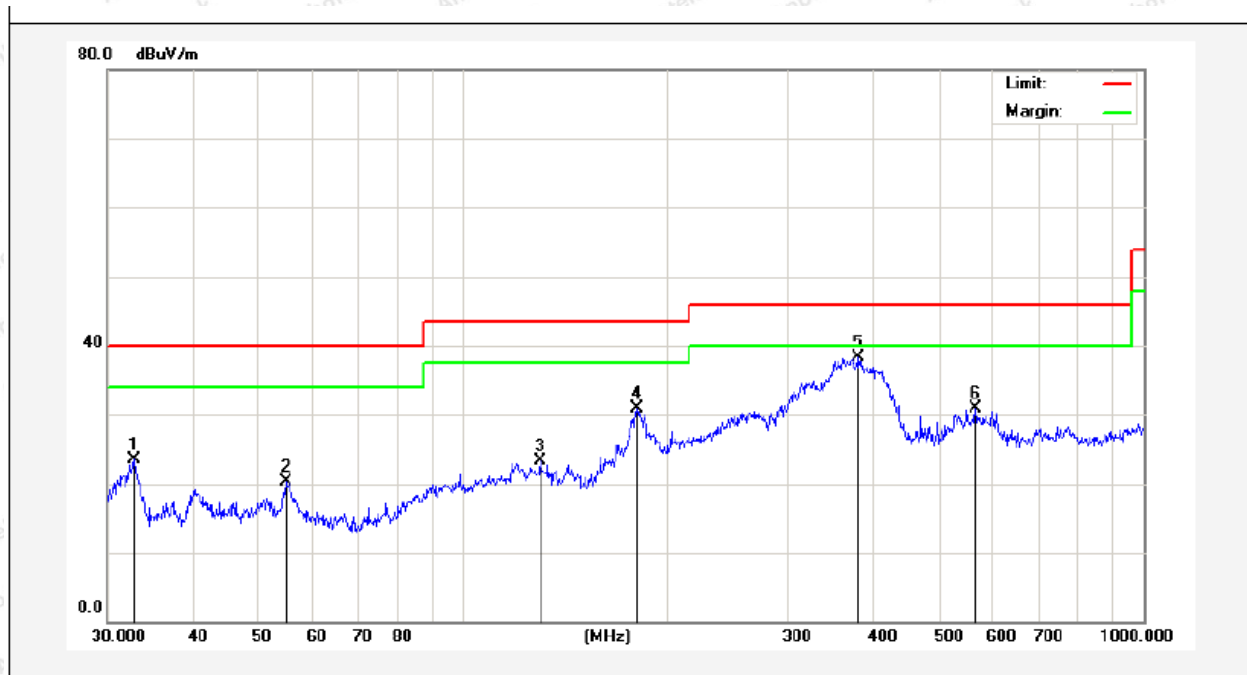
Test Mode: Mode 1
Power Source: AC 120V, 60Hz for adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
Distance: 3m
Note: AirPods Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.7986	50.70	-17.90	32.80	40.00	-7.20	QP	300	0	
2	40.9881	48.30	-16.57	31.73	40.00	-8.27	QP	300	360	
3	50.2324	46.07	-16.78	29.29	40.00	-10.71	QP	300	0	
4	144.3348	43.41	-19.43	23.98	43.50	-19.52	QP	300	360	
5	191.0738	47.06	-16.80	30.26	43.50	-13.24	QP	300	0	
6	396.2414	38.95	-13.20	25.75	46.00	-20.25	QP	300	360	

Test Results (30~1000MHz)

Test Mode: Mode 1
Power Source: AC 120V, 60Hz for adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 22.6°C/57%RH
Distance: 3m
Note: AirPods Charger



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.8637	42.47	-18.92	23.55	40.00	-16.45	QP	300	0	
2	54.8348	38.34	-18.02	20.32	40.00	-19.68	QP	300	360	
3	129.9226	47.15	-23.76	23.39	43.50	-20.11	QP	300	0	
4	180.0165	52.66	-21.76	30.90	43.50	-12.60	QP	300	360	
5	381.2487	52.70	-14.44	38.26	46.00	-7.74	QP	300	0	
6	566.6223	43.19	-12.20	30.99	46.00	-15.01	QP	300	360	

5. Antenna Requirement

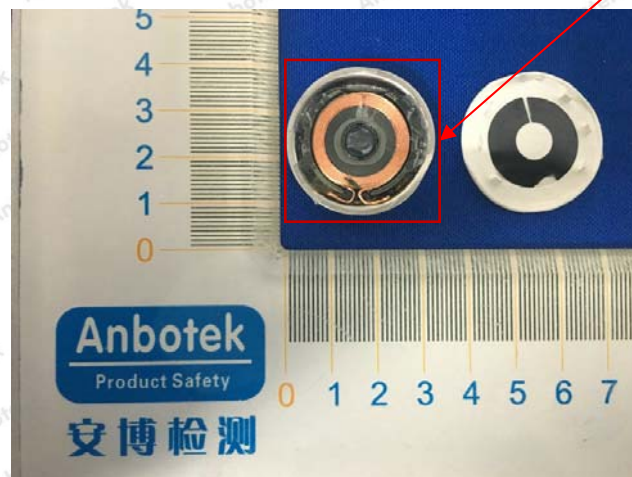
5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	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

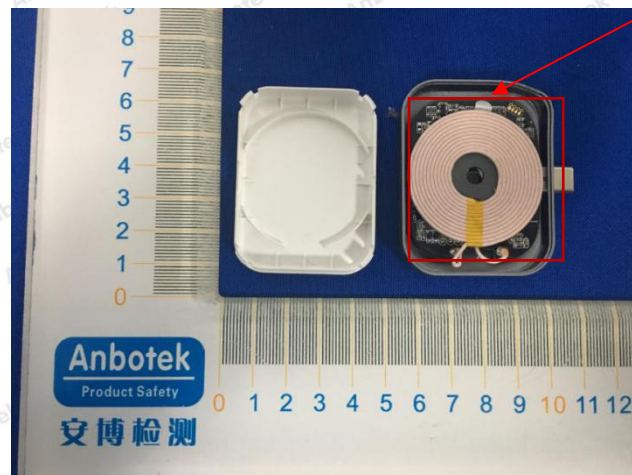
5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

Apple Watch Magnetic Charger Antenna



AirPods Charger Antenna



APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement
(Apple Watch Magnetic Charger)



AirPods Charger

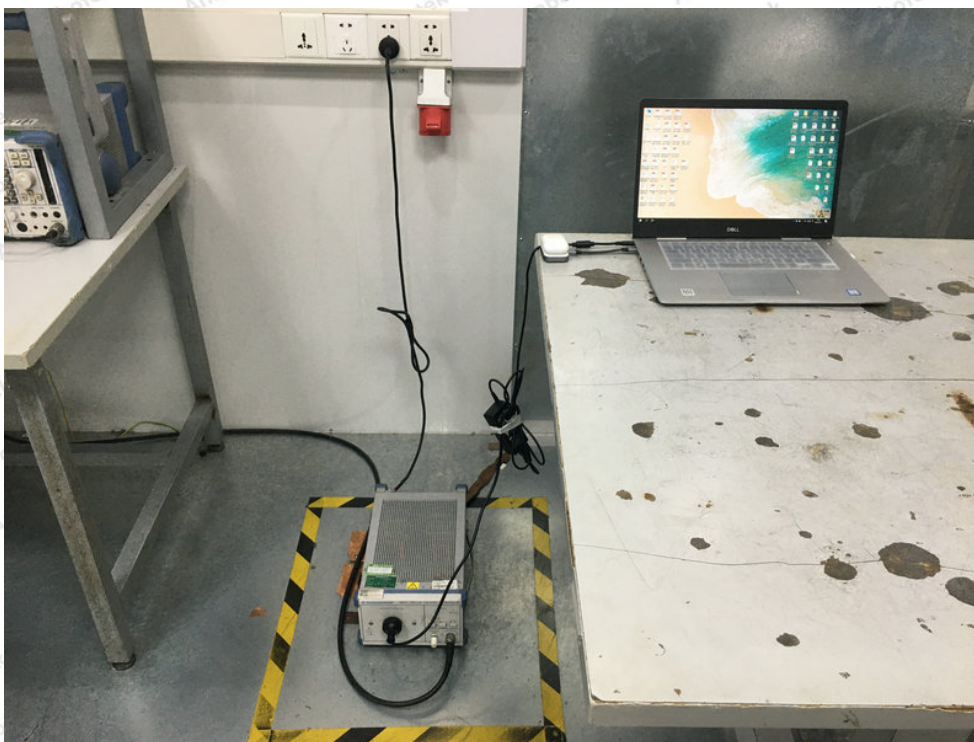
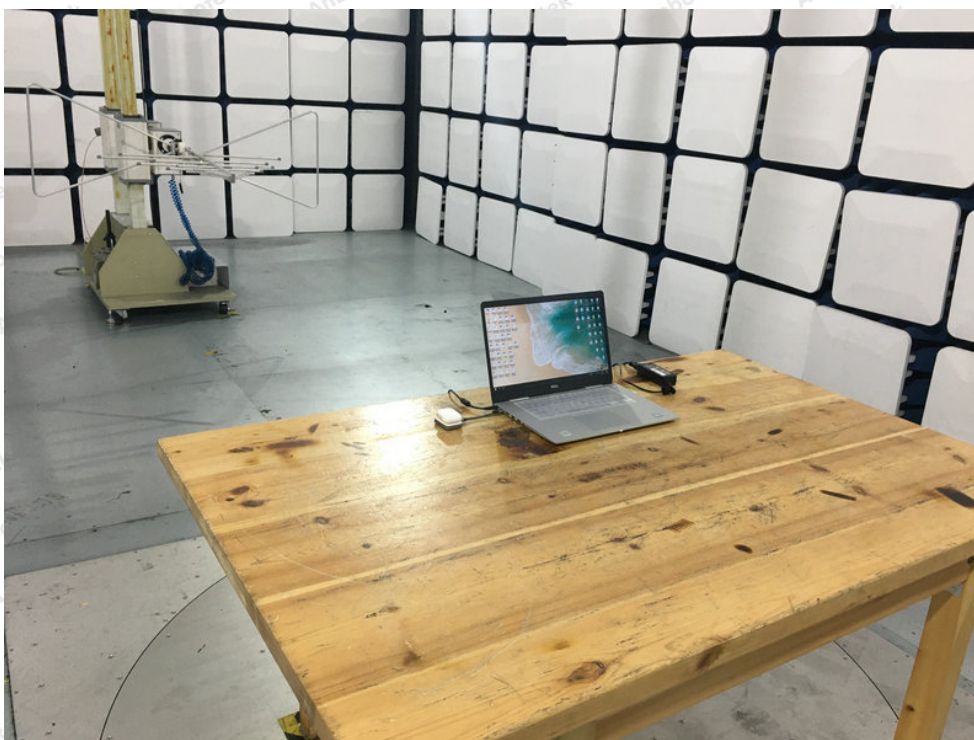


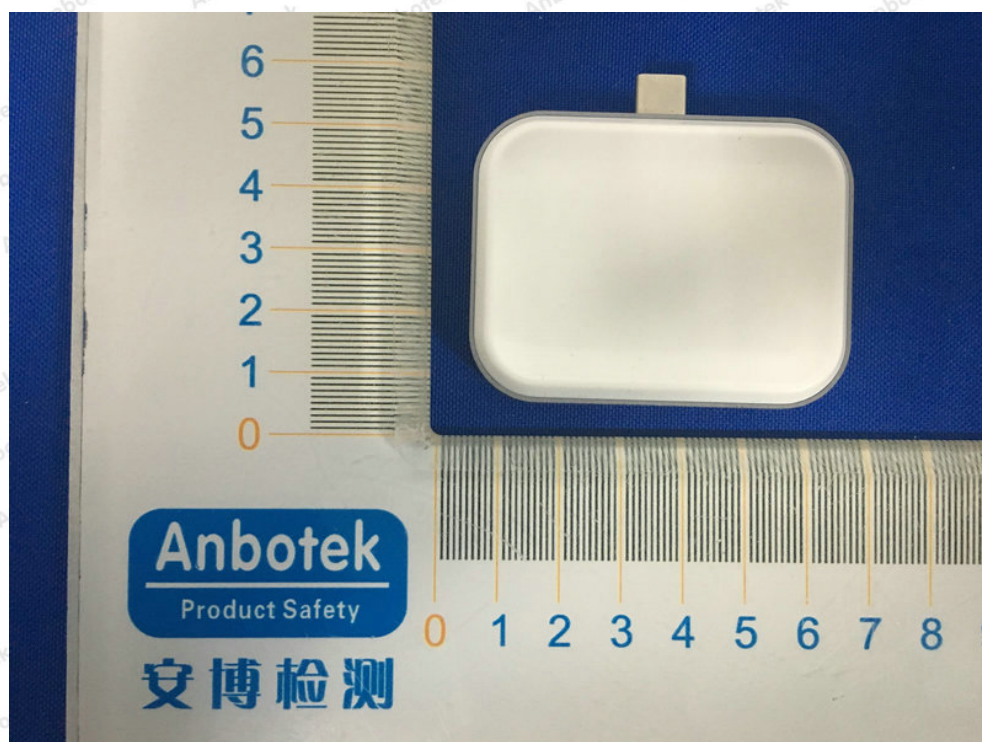
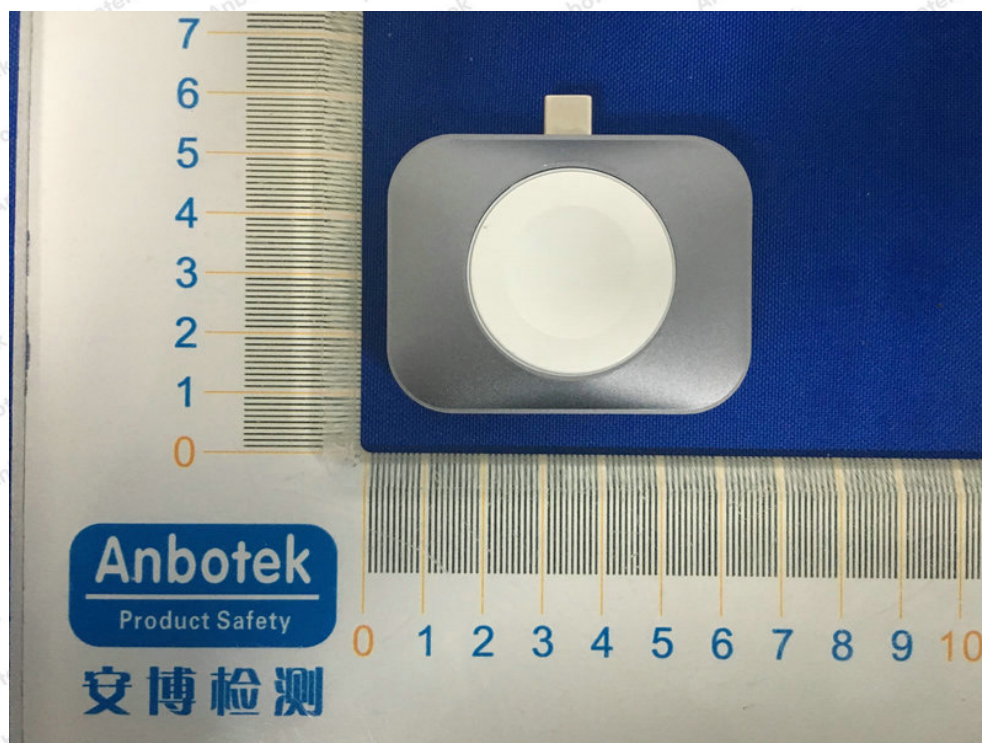
Photo of Radiation Emission Test
Apple Watch Magnetic Charger

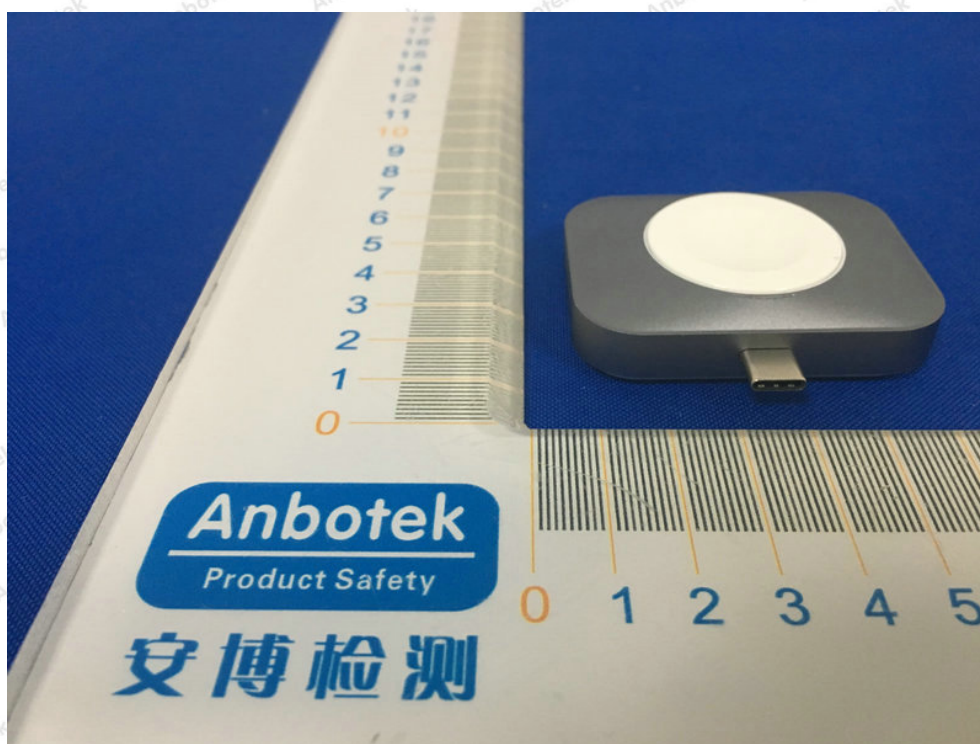
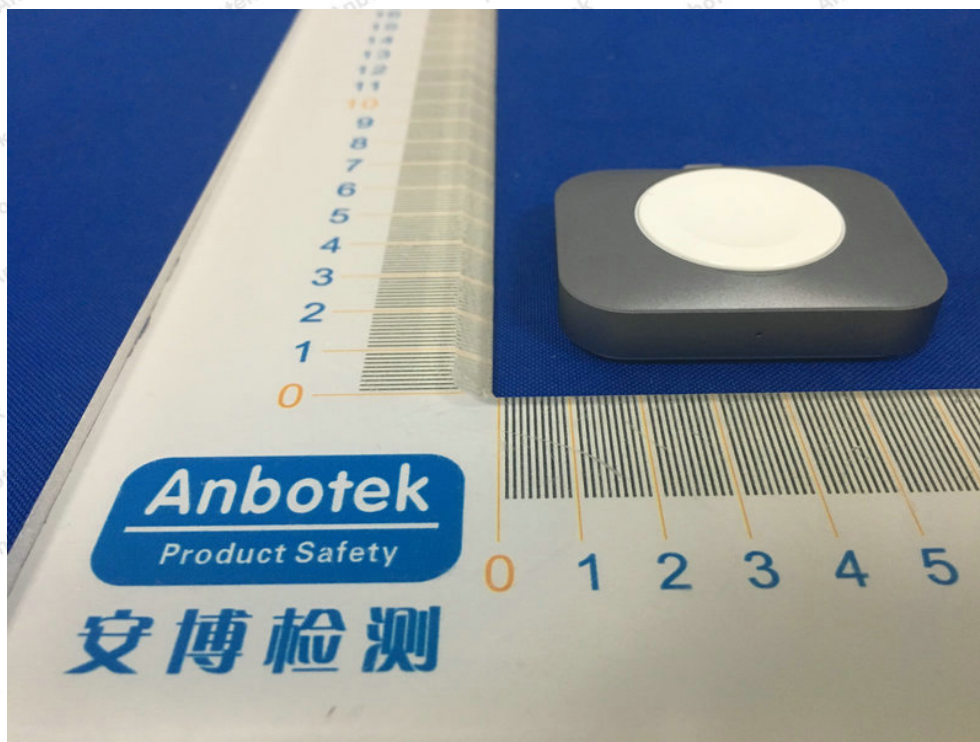


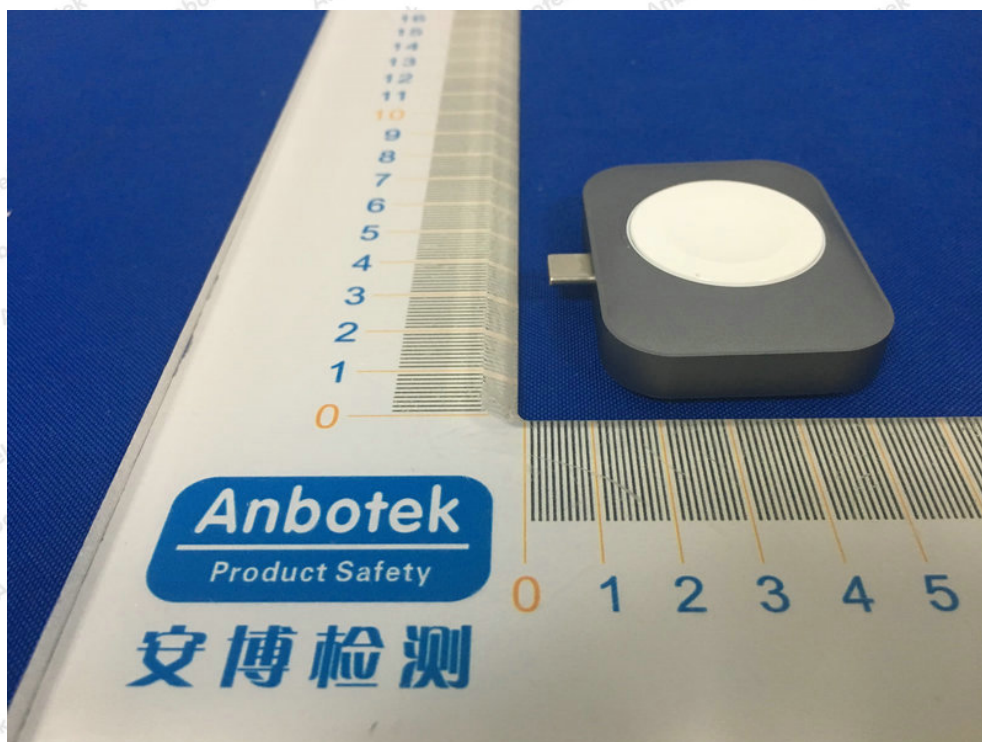
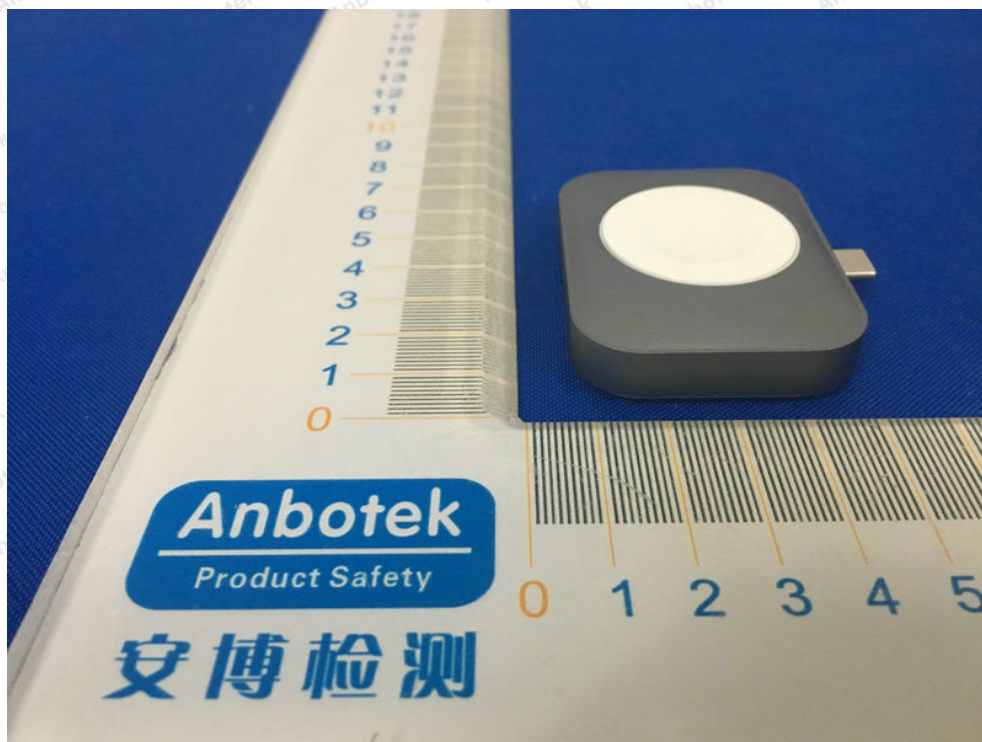
AirPods Charger

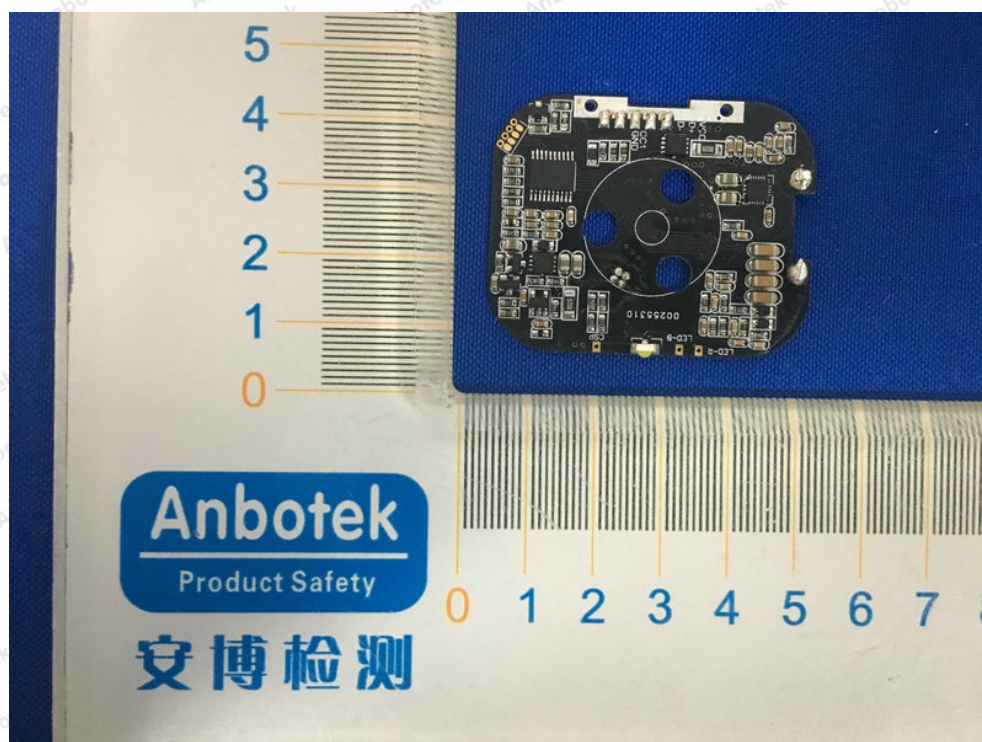
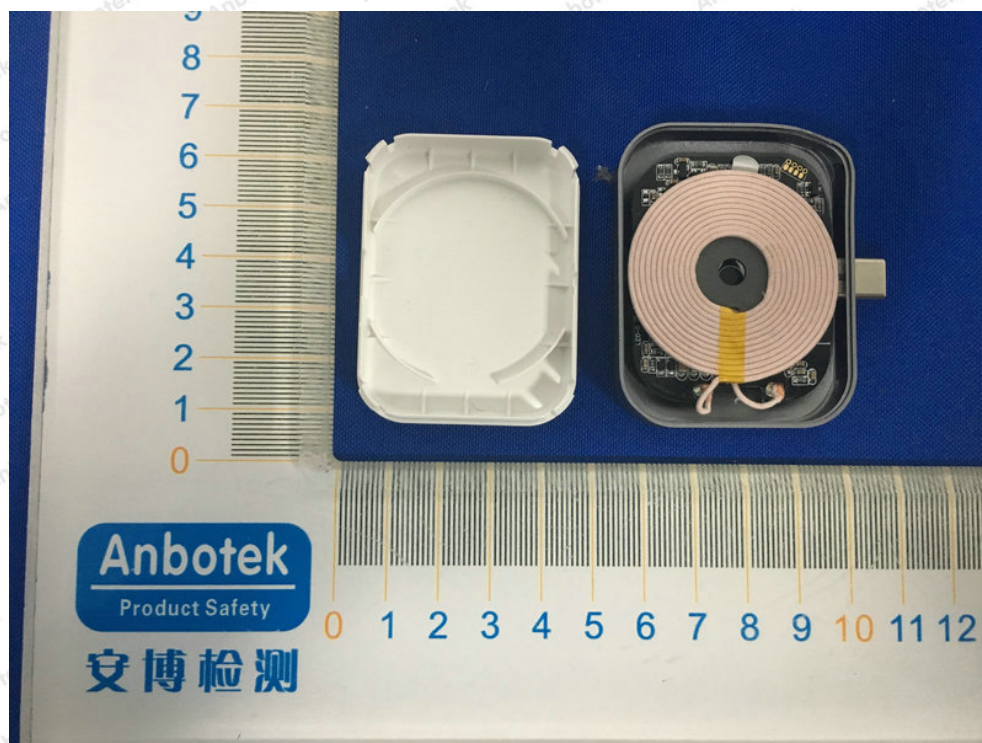


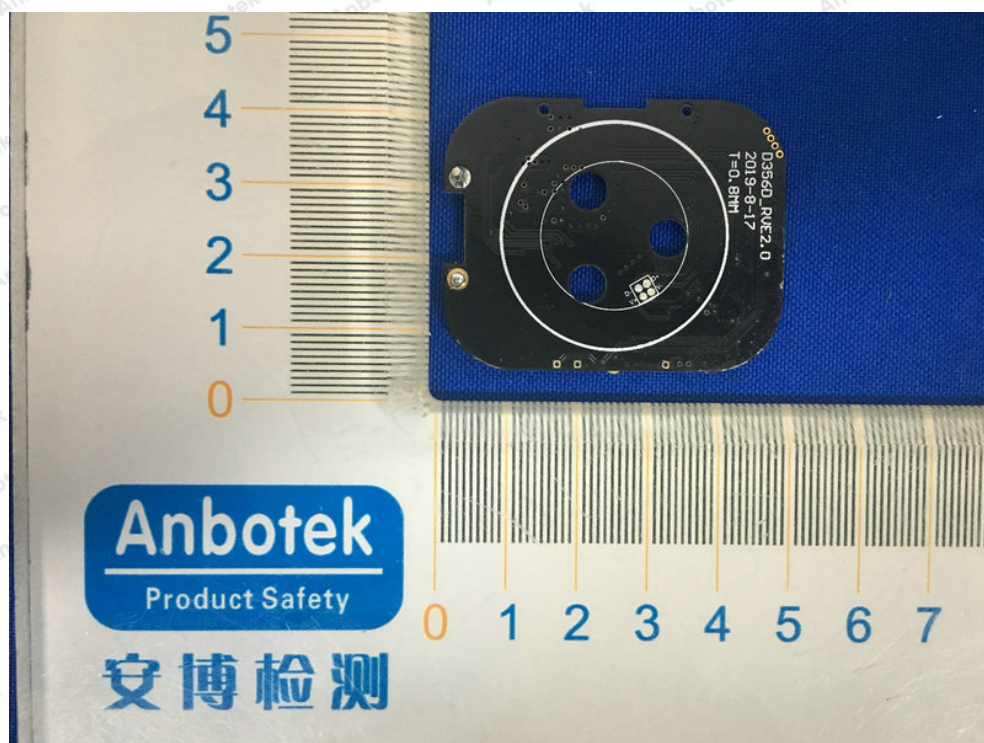
Apple Watch Magnetic Charger**AirPods Charger**

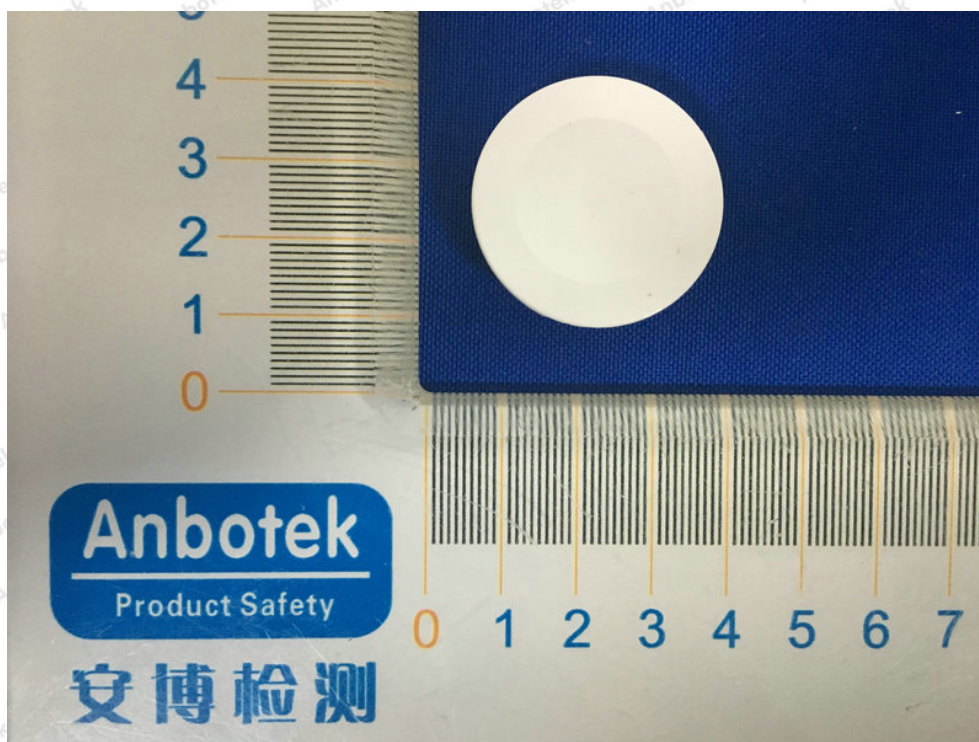
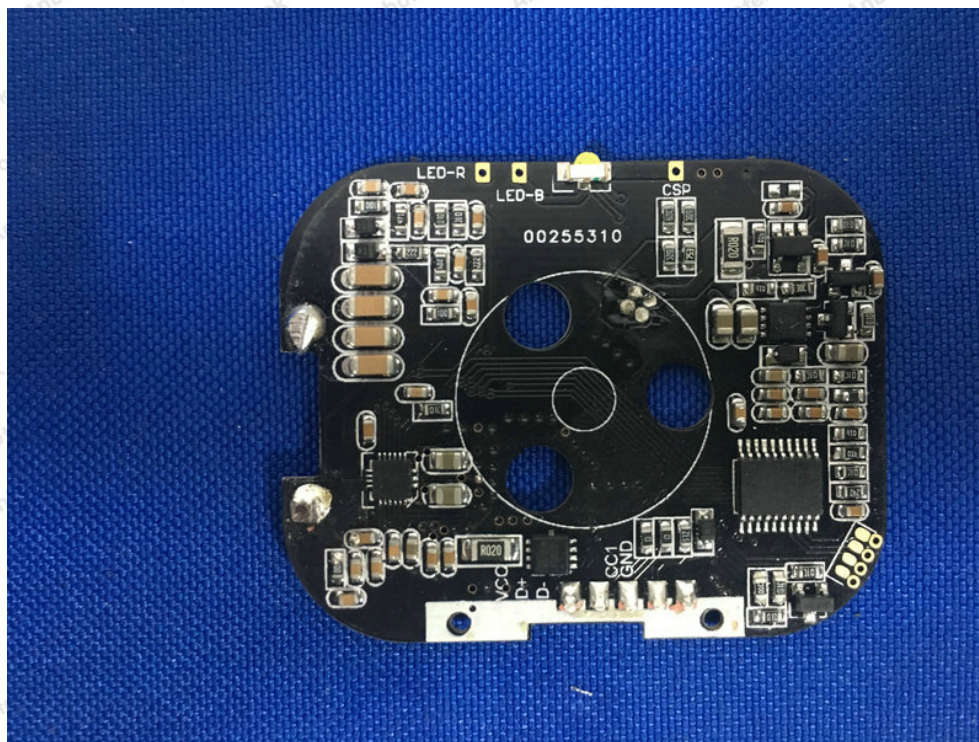
APPENDIX II -- EXTERNAL PHOTOGRAPH

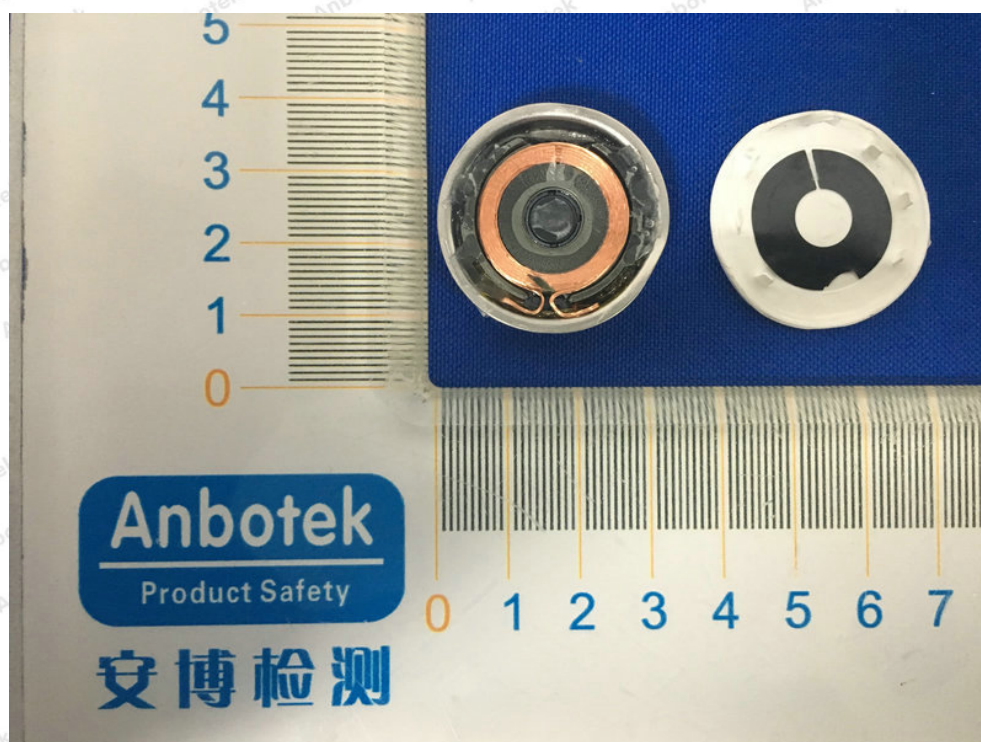
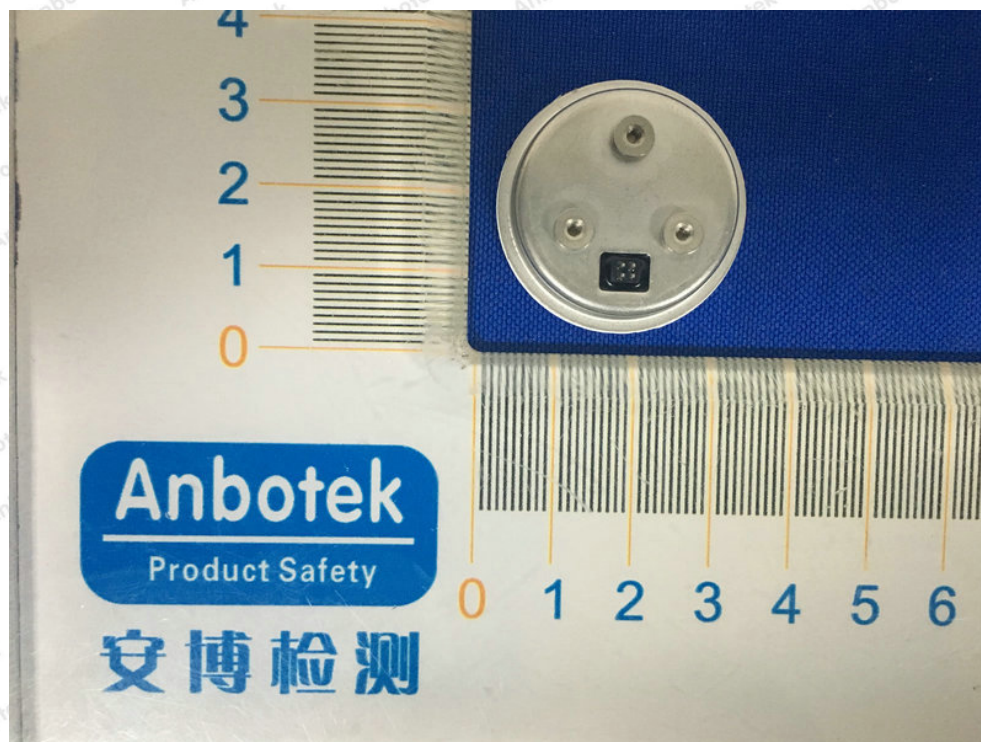




APPENDIX III -- INTERNAL PHOTOGRAPH







----- End of Report -----

