



Test Report

FCC Part15 Subpart C

Product Name : Wondercise Wireless Tracker Charger
Model No. : TC-01
FCC ID : 2AQIRWDCTC-01

Applicant : WONDERCISE LIMITED
Address : 15/F LOCKHART CTR, 301-307 LOCKHART
RD, WANCHAI, Hong Kong, China

Date of Receipt : May. 21, 2021
Test Date : May. 21, 2021 ~ Jun. 20, 2021
Issued Date : Jun. 26, 2021
Report No. : 2150702R-RF-US-P06V05
Report Version : V1.0

The test results presented in this report relate only to the object tested.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.

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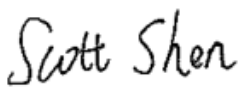
This report is not used for social proof in China (or Mainland China) market.

Test Report Certification

Issued Date : Jun. 26, 2021
Report No. : 2150702R-RF-US-P06V05



Product Name : Wondercise Wireless Tracker Charger
 Applicant : WONDERCISE LIMITED
 Address : 15/F LOCKHART CTR, 301-307 LOCKHART RD, WANCHAI, Hong Kong, China
 Manufacturer : Yan Tai FuHuaDa Precision Electronics Co., Ltd.
 Address : A-7 Section, Yantai Economic & Technological Development Area, Shan Dong
 Model No. : TC-01
 FCC ID : 2AQIRWDCTC-01
 EUT Voltage : DC 5V
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C; ANSI C63.10: 2013
 Test Result : Complied
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
 FCC Designation Number: CN1199

Tested By : 

 (Project Engineer: Scott Shen)

Approved By : 

 (Supervisor: Jack Zhang)

TABLE OF CONTENTS

Description	Page
1. General Information.....	5
1.1. EUT Description	5
1.2. Antenna information	6
1.3. Mode of Operation	7
1.4. Tested System Details.....	8
1.5. Configuration of Tested System.....	9
1.6. EUT Exercise Software	10
2. Technical Test.....	11
2.1. Summary of Test Result	11
2.2. Test Environment	11
3. Conducted Emission	12
3.1. Test Equipment	12
3.2. Test Setup	12
3.3. Limit	13
3.4. Test Procedure	13
3.5. Uncertainty.....	13
3.6. Test Result	14
4. Radiated Emission	16
4.1. Test Equipment	16
4.2. Test Setup	17
4.3. Limit	18
4.4. Test Procedure	18
4.5. Uncertainty.....	19
4.6. Test Result	20
5. 20dB Occupied Bandwidth	26
5.1. Test Equipment	26
5.2. Test Setup	27
5.3. Limit	28
5.4. Test Procedure	28
5.5. Uncertainty.....	28
5.6. Test Result	29
6. Antenna Requirement	30
6.1. Requirement.....	30
6.2. Result.....	30

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
2150702R-RF-US-P06V05	V1.0	Initial Issued Report	Jun. 26, 2021

1. General Information

1.1. EUT Description

Product Name	Wondercise Wireless Tracker Charger
Model No.	TC-01
Hardware Version	V1.0
Software Version	V1.0
S/N	2150702R-03
Working Voltage	DC 5V
Testing Voltage	AC 120V/60Hz
Frequency Range	667 kHz
Type of Modulation	ASK

Note: We use a standard AC 100~240V 50/60Hz to 5V USB adaptor for the test, so the test voltage is AC 120V/60Hz.

1.2. Antenna information

Model No.	N/A		
Antenna manufacturer	N/A		
Antenna Delivery	<input checked="" type="checkbox"/> 1*TX+1*RX	<input type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/> SISO		
	<input type="checkbox"/> MIMO	<input type="checkbox"/> Basic	
		<input type="checkbox"/> CDD	
		<input type="checkbox"/> Sectorized	
		<input type="checkbox"/> Beam-forming	
Antenna Type	<input type="checkbox"/> External	<input type="checkbox"/> Dipole	
		<input type="checkbox"/> Sectorized	
	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> PIFA	
		<input type="checkbox"/> PCB	
		<input type="checkbox"/> Ceramic Chip Antenna	
		<input checked="" type="checkbox"/> Loop antenna	
		<input type="checkbox"/> Type F antenna	

1.3. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit

Note:

1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. For portable device, radiated spurious emission was verified over X, Y, Z Axis, and shown the worst case on this report.

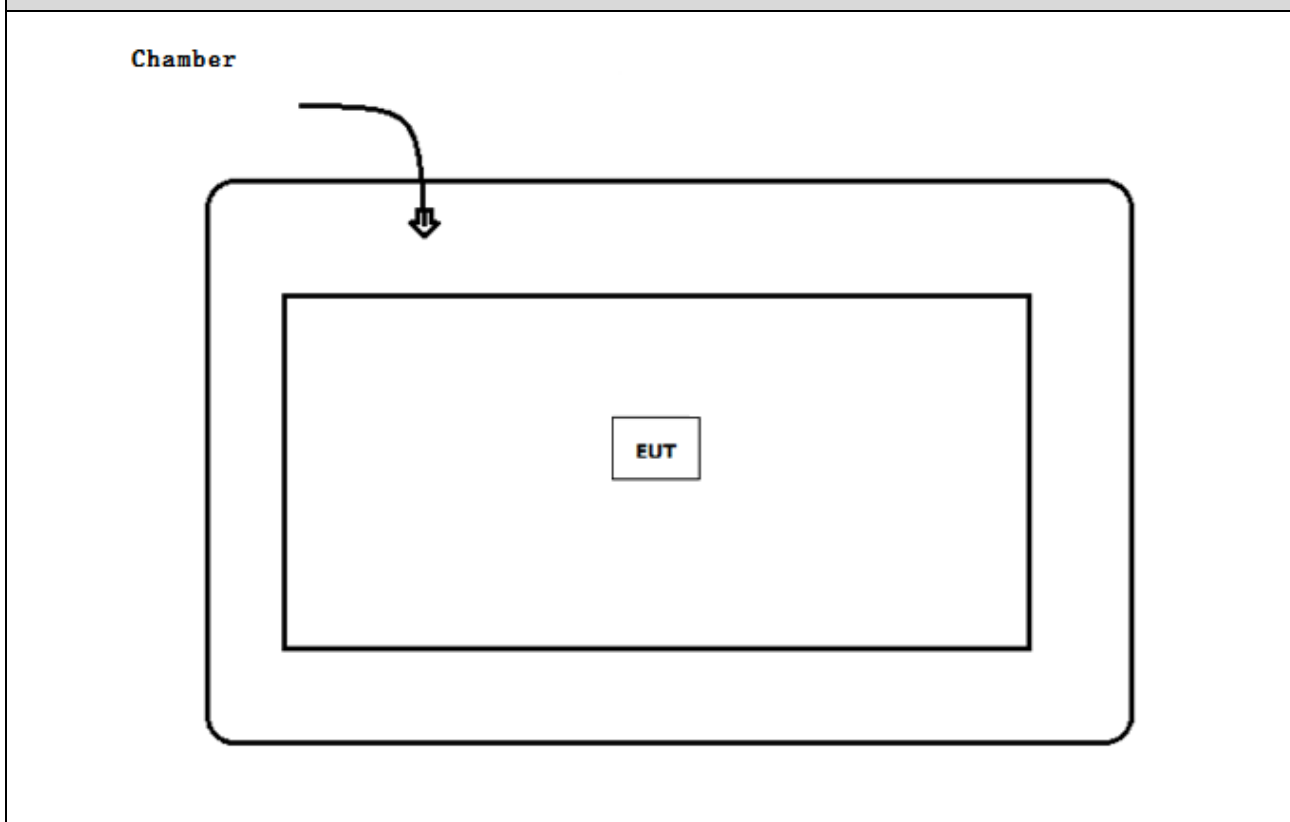
1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 N/A	N/A	N/A	N/A	N/A

1.5. Configuration of Tested System

Test setup Diagram- Radiated Emission



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Verify that the EUT works properly.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
 Deviations from the test standards as below description:

Performed Test Item	Normative References	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.207	FCC 15.207	PASS
Field Strength of Spurious	FCC CFR Title 47 Part 15 Subpart C Section 15.209	FCC 15.209	PASS
Channel Bandwidth	FCC CFR Title 47 Part 15 Subpart C Section 15.215(c)	FCC 15.215	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C Section 15.203	FCC 15.203	PASS

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

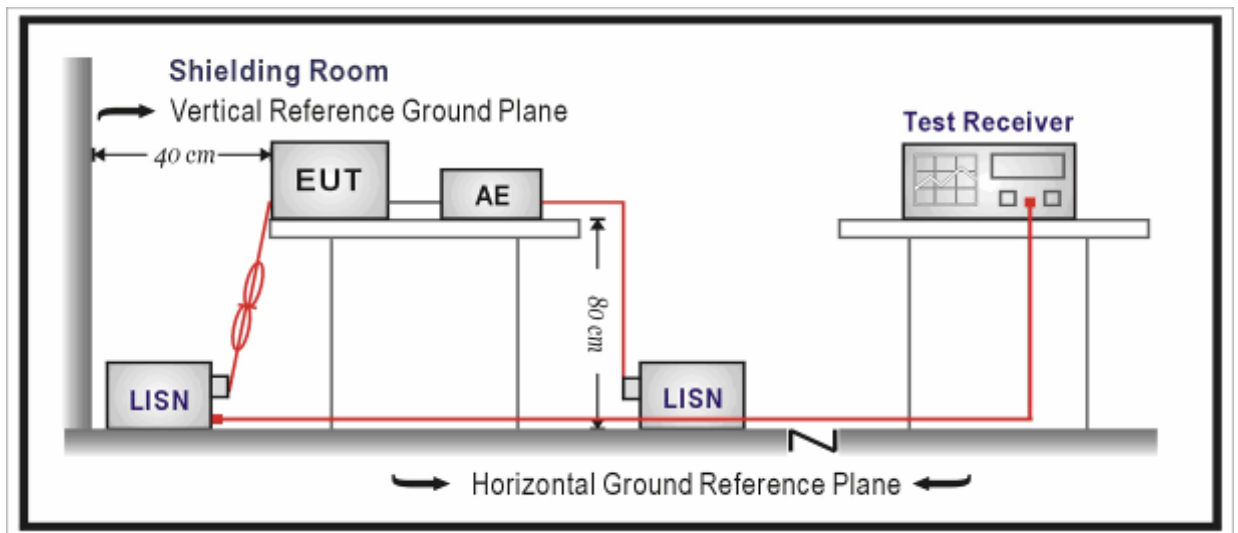
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2021.04.18	2022.04.17
Two-Line V-Network	R&S	ENV216	100044	2021.04.18	2022.04.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	7081402	2020.09.23	2021.09.22
50ohm Termination	SHX	TF2	7081403	2020.09.23	2021.09.22
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2020.08.23	2021.08.22
EMI V3(test software)	DEKRA	N/A	N/A	N/A	N/A

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.10 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

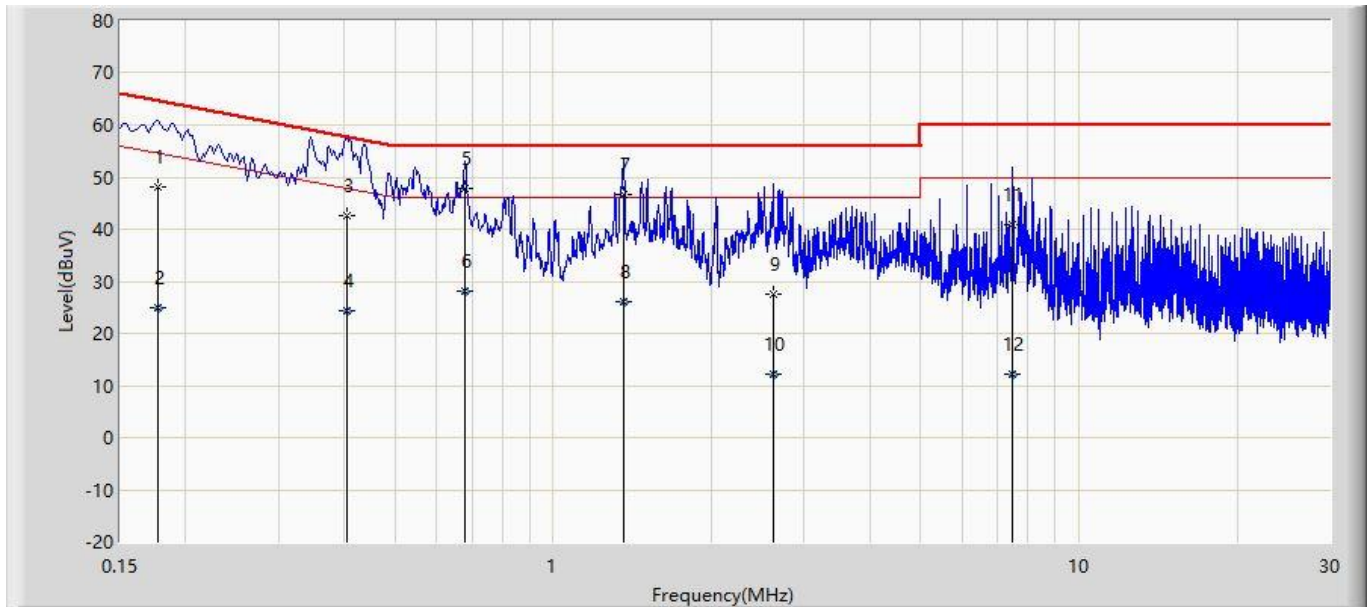
The measurement uncertainty is defined as:

9kHz~150kHz: 2.80 dB

150kHz~30MHz: 2.40 dB

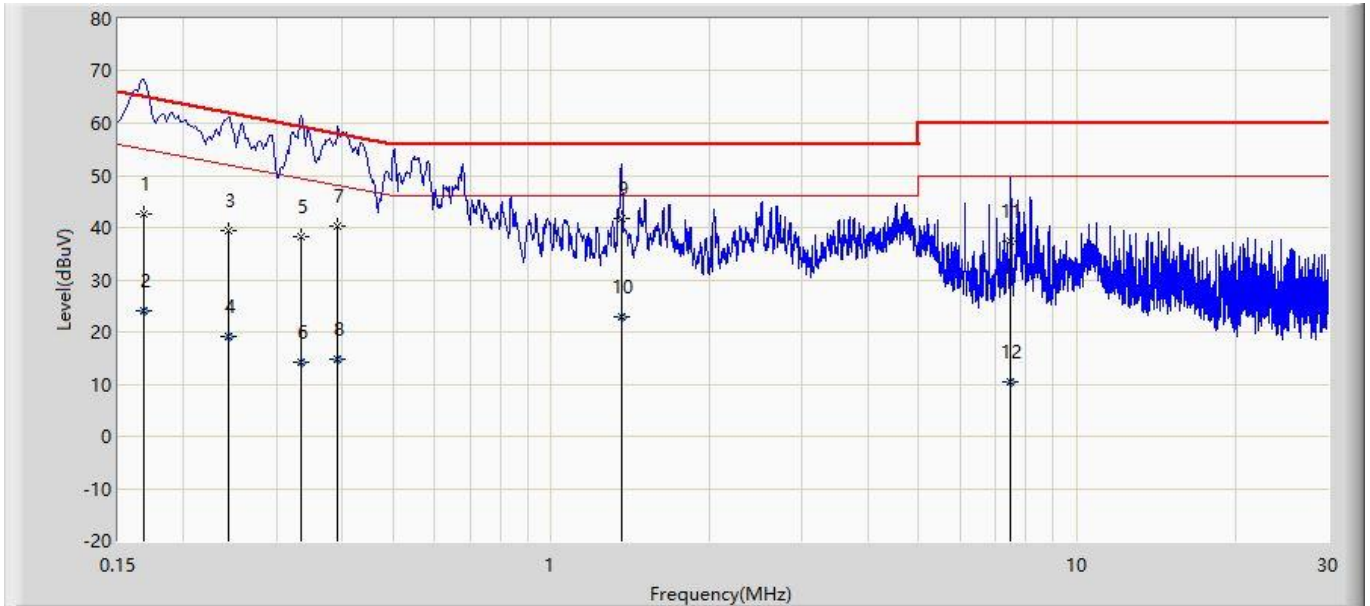
3.6. Test Result

Engineer: Tim Cao	
Site: TR1	Time: 2021/06/28 - 20:04
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: WONDERCISE WIRELESS TRACKER CHARGER	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.177	48.242	38.570	-16.383	64.625	9.672	QP
2		0.177	24.909	15.238	-29.716	54.625	9.672	AV
3		0.404	42.603	32.817	-15.162	57.766	9.786	QP
4		0.404	24.383	14.596	-23.383	47.766	9.786	AV
5	*	0.681	47.842	37.940	-8.158	56.000	9.901	QP
6		0.681	28.009	18.107	-17.991	46.000	9.901	AV
7		1.361	46.658	36.664	-9.342	56.000	9.993	QP
8		1.361	25.950	15.956	-20.050	46.000	9.993	AV
9		2.618	27.629	17.568	-28.371	56.000	10.061	QP
10		2.618	12.265	2.204	-33.735	46.000	10.061	AV
11		7.481	40.865	30.616	-19.135	60.000	10.249	QP
12		7.481	12.183	1.935	-37.817	50.000	10.249	AV

Engineer: Tim Cao	
Site: TR1	Time: 2021/06/28 - 20:26
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: WONDERCISE WIRELESS TRACKER CHARGER	Power: AC 120V/60Hz
Note: Mode: N-line	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.168	42.733	32.987	-22.326	65.059	9.745	QP
2		0.168	23.936	14.190	-31.123	55.059	9.745	AV
3		0.244	39.548	29.769	-22.394	61.942	9.779	QP
4		0.244	19.095	9.316	-32.847	51.942	9.779	AV
5		0.335	38.175	28.373	-21.163	59.339	9.802	QP
6		0.335	14.234	4.432	-35.104	49.339	9.802	AV
7		0.393	40.397	30.579	-17.603	58.000	9.818	QP
8		0.393	14.670	4.852	-33.330	48.000	9.818	AV
9	*	1.358	41.685	31.737	-14.315	56.000	9.948	QP
10		1.358	22.924	12.975	-23.076	46.000	9.948	AV
11		7.481	37.418	27.263	-22.582	60.000	10.156	QP
12		7.481	10.340	0.185	-39.660	50.000	10.156	AV

4. Radiated Emission

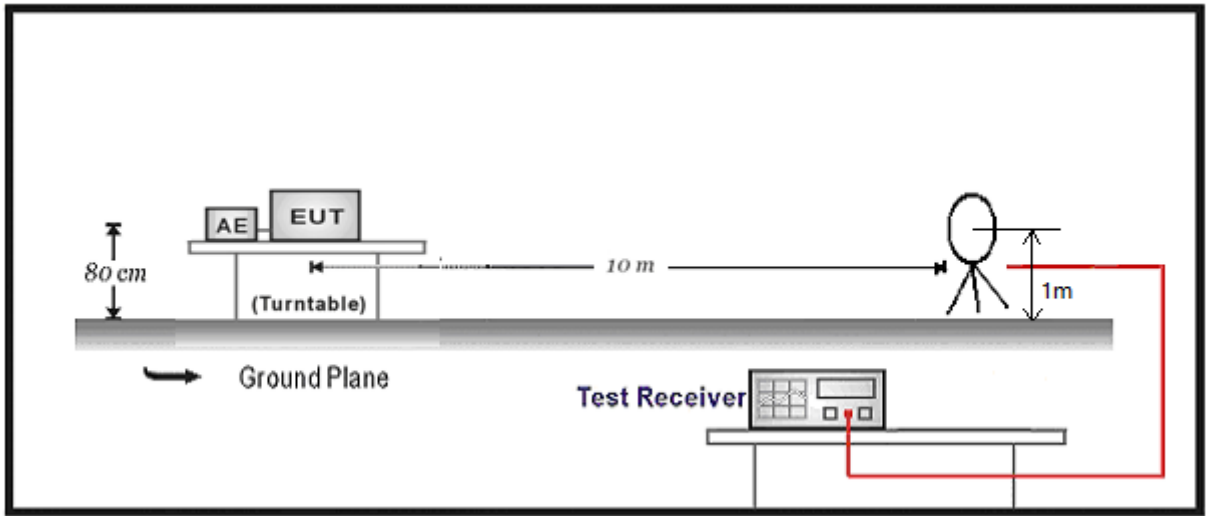
4.1. Test Equipment

Radiated Emission / AC-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100175	2020.08.15	2021.08.14
Preamplifier	Quietek	AP-025C	CHM-0602008	2021.04.05	2022.04.04
Coaxial Cable	Huber+Suhner	RG 214_U	AC1-L	2021.04.05	2022.04.04
Loop Antenna	R&S	HFH2-Z2	833799/003	2021.02.17	2022.02.16
Temperature/Humidity Meter	RTS	RTS-8S	AC1-TH	2020.08.13	2021.08.12
EMI V3(test software)	DEKRA	N/A	N/A	N/A	N/A
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

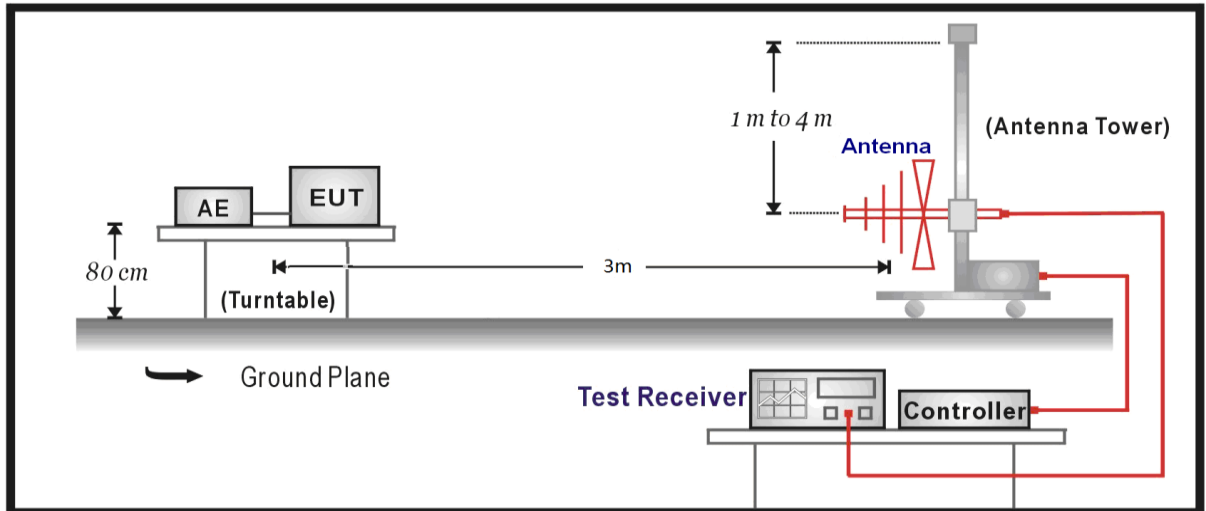
Radiated Emission / AC-3					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100176	2020.08.15	2021.08.14
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2020.08.19	2021.08.18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC3-C	2021.04.05	2022.04.04
Temperature/Humidity Meter	RTS	RTS-8S	AC3-TH	2020.08.13	2021.08.12
EMI V3(test software)	DEKRA	N/A	N/A	N/A	N/A
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

9kHz~30MHz Test Setup:



30MHz~1GHz Test Setup:



4.3. Limit

Field strength of emissions from intentional radiators operated under 15.209(a) shall not exceed the following:

FCC Part 15.209(a)		
Fundamental frequency (MHz)	Field strength of fundamental (μ V/m)	Field strength of spurious emissions (μ V/m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

(1)The tighter limits apply at the band edges.

(2)Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 300m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor = $40 \log_{10}(300/3) = 80\text{dB}$ for example.

Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor = $40 \log_{10}(30/3) = 40\text{dB}$ for example.

(3)All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10 for compliance to FCC 47CFR 15.209 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This

is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.

The frequency range from 9kHz to 10th harmonic is checked.

4.5. Uncertainty

The measurement uncertainty is defined as:

Horizontal: 30MHz~200MHz: 3.50 dB

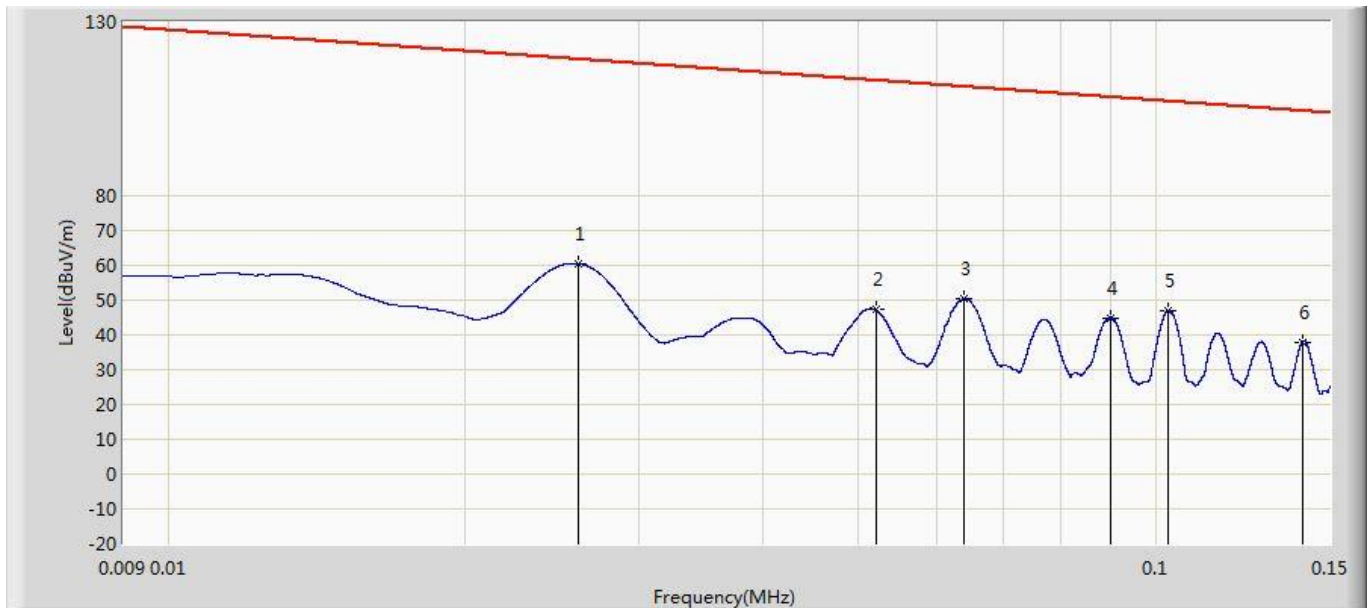
300MHz~1GHz: 3.60 dB

Vertical: 30MHz~200MHz: 3.60 dB

300MHz~1GHz: 3.50 dB

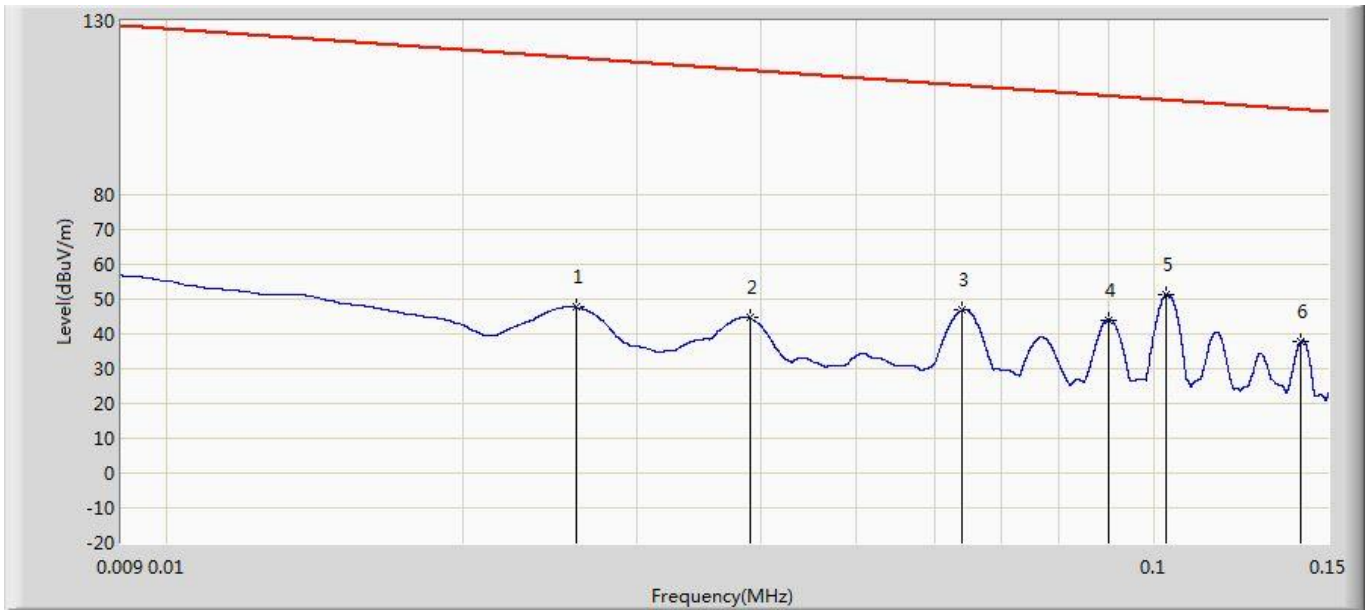
4.6. Test Result

Profile: 2150702R	Page No.: 23
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 19:08
Limit: FCC-0.009-30	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Horizontal
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



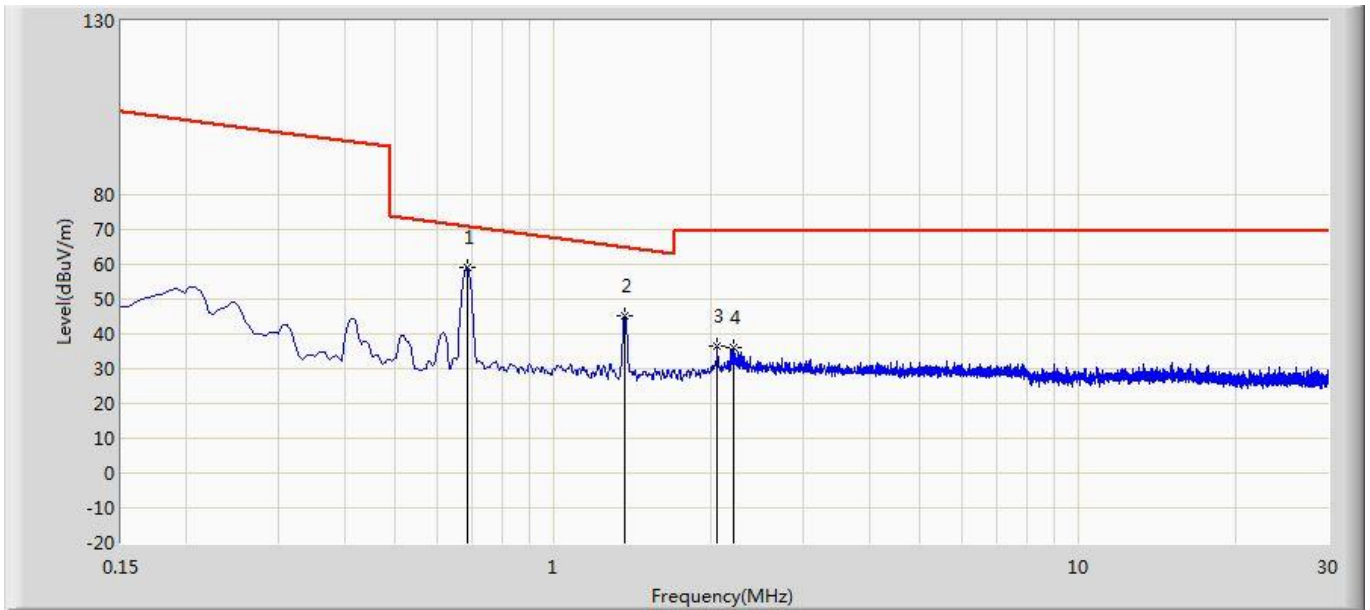
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.026	60.633	32.799	-58.671	119.305	27.835	QP
2		0.052	47.437	19.208	-65.848	113.284	28.229	QP
3		0.064	50.253	22.036	-61.228	111.481	28.217	QP
4		0.090	44.991	16.807	-63.529	108.519	28.184	QP
5		0.103	46.867	18.699	-60.481	107.348	28.168	QP
6		0.141	37.997	9.868	-66.622	104.620	28.130	QP

Profile: 2150702R	Page No.: 24
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 19:11
Limit: FCC-0.009-30	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Vertical
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



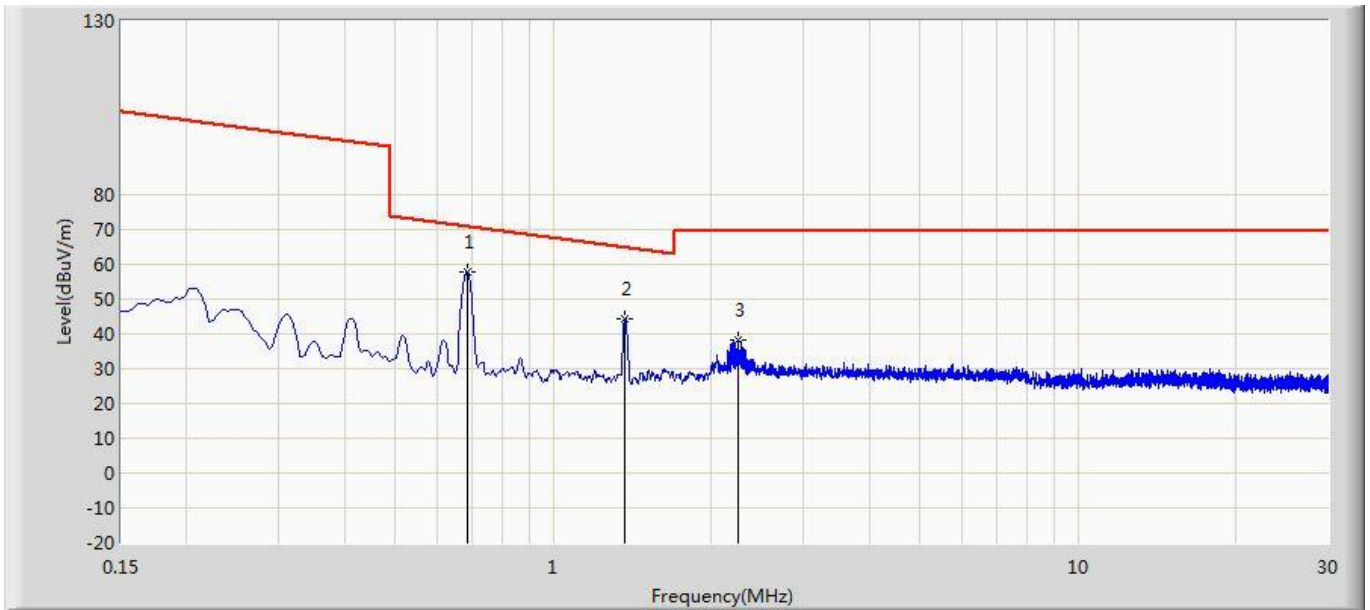
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.026	47.665	20.331	-71.639	119.305	27.335	QP
2		0.039	44.637	16.895	-71.146	115.783	27.742	QP
3		0.064	46.848	19.131	-64.633	111.481	27.717	QP
4		0.090	44.054	16.370	-64.466	108.519	27.684	QP
5	*	0.103	51.433	23.765	-55.915	107.348	27.668	QP
6		0.141	38.006	10.377	-66.613	104.620	27.630	QP

Profile: 2150702R	Page No.: 25
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 19:14
Limit: FCC-0.009-30	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Horizontal
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



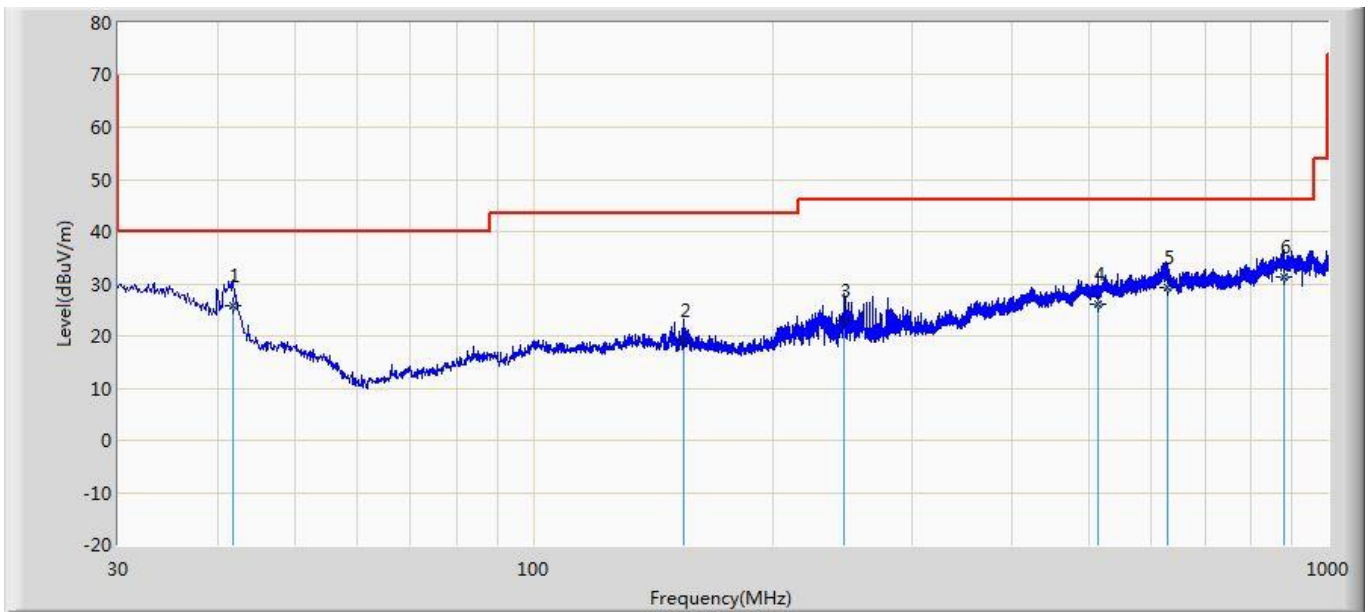
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.684	59.296	32.140	-11.607	70.903	27.156	QP
2		1.370	45.355	18.822	-19.515	64.870	26.533	QP
3		2.049	36.534	9.402	-33.009	69.542	27.132	QP
4		2.202	36.076	8.964	-33.467	69.542	27.112	QP

Profile: 2150702R	Page No.: 26
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 19:23
Limit: FCC-0.009-30	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Vertical
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



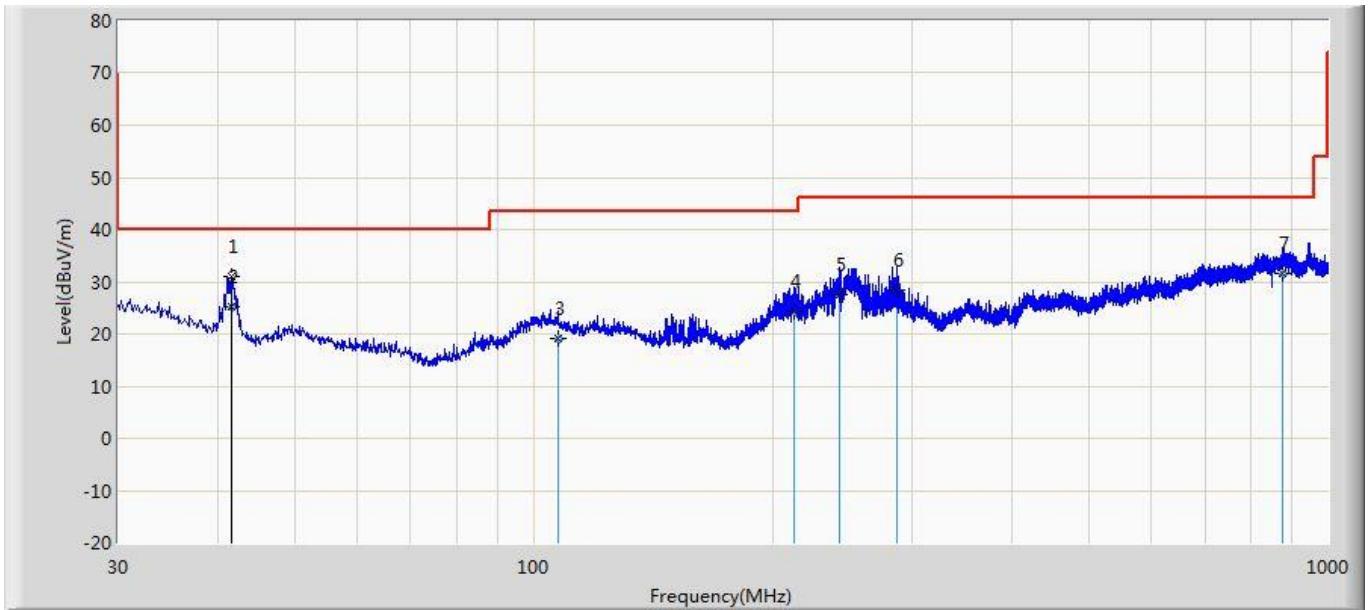
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.687	57.652	31.005	-13.213	70.865	26.647	QP
2		1.370	44.424	18.391	-20.446	64.870	26.033	QP
3		2.247	38.297	11.692	-31.245	69.542	26.606	QP

Profile: 2150702R	Page No.: 31
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 19:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	41.882	25.739	5.586	-14.261	40.000	20.153	QP
2		154.766	19.162	2.280	-24.338	43.500	16.882	QP
3		245.946	23.041	5.428	-22.959	46.000	17.613	QP
4		513.797	26.163	-1.551	-19.837	46.000	27.714	QP
5		627.614	29.315	-1.076	-16.685	46.000	30.391	QP
6		879.723	31.163	-1.262	-14.837	46.000	32.425	QP

Profile: 2150702R	Page No.: 32
Engineer: Neil	
Site: AC2	Time: 2021/06/08 - 20:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: Wondercise Wireless Tracker Charger	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	41.761	30.977	12.490	-9.023	40.000	18.487	PK
2		41.761	25.312	6.825	-14.688	40.000	18.487	QP
3		107.417	19.163	-2.468	-24.337	43.500	21.631	QP
4		212.602	24.322	1.696	-19.178	43.500	22.626	QP
5		242.915	27.631	4.115	-18.369	46.000	23.516	QP
6		287.293	28.316	3.382	-17.684	46.000	24.934	QP
7		876.204	31.613	-1.428	-14.387	46.000	33.042	QP

Note 1: The final result only applies for using QP detector, if the pre-test result on peak is lower than limit, then QP measurement needn't be performed.

Note 2: " * ", means this data is the worst emission level.

Note 3: Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Note 4: The orthogonal orientations (x/y/z) of the shielded loop antenna are evaluated, shown in the report is the worst data.

5. 20dB Occupied Bandwidth

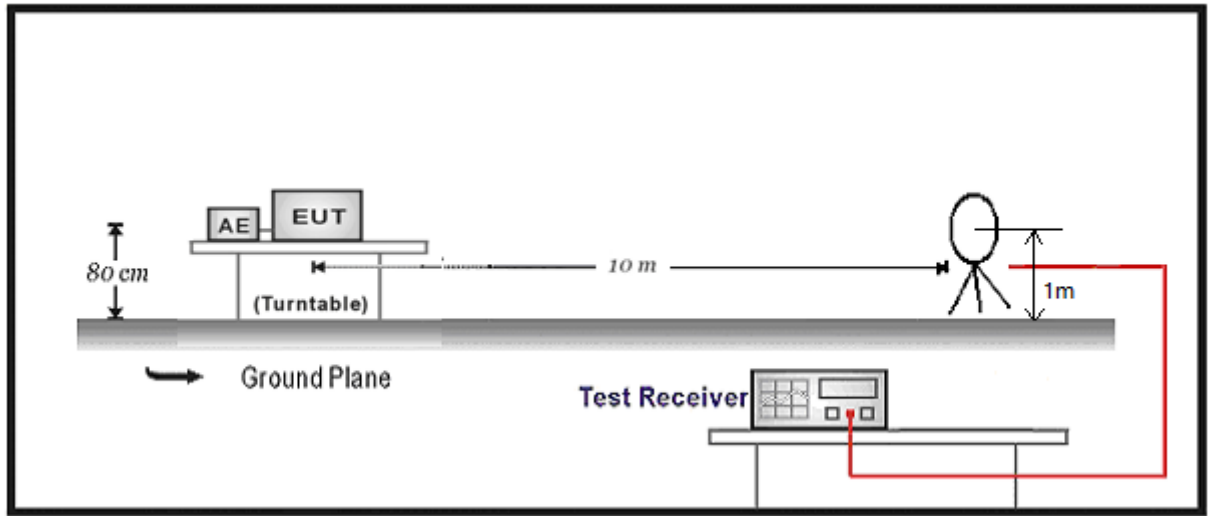
5.1. Test Equipment

20dB Occupied Bandwidth / AC-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100175	2020.08.15	2021.08.14
Preamplifier	Quietek	AP-025C	CHM-0602008	2021.04.05	2022.04.04
Coaxial Cable	Huber+Suhner	RG 214_U	AC1-L	2021.04.05	2022.04.04
Loop Antenna	R&S	HFH2-Z2	833799/003	2021.02.17	2022.02.16
Temperature/Humidity Meter	RTS	RTS-8S	AC1-TH	2020.08.13	2021.08.12
EMI V3(test software)	DEKRA	N/A	N/A	N/A	N/A

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup

9kHz~30MHz Test Setup:



5.3. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.4. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with the RBW 1%~5% of 20dBc bandwidth and the VBW three times of the RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

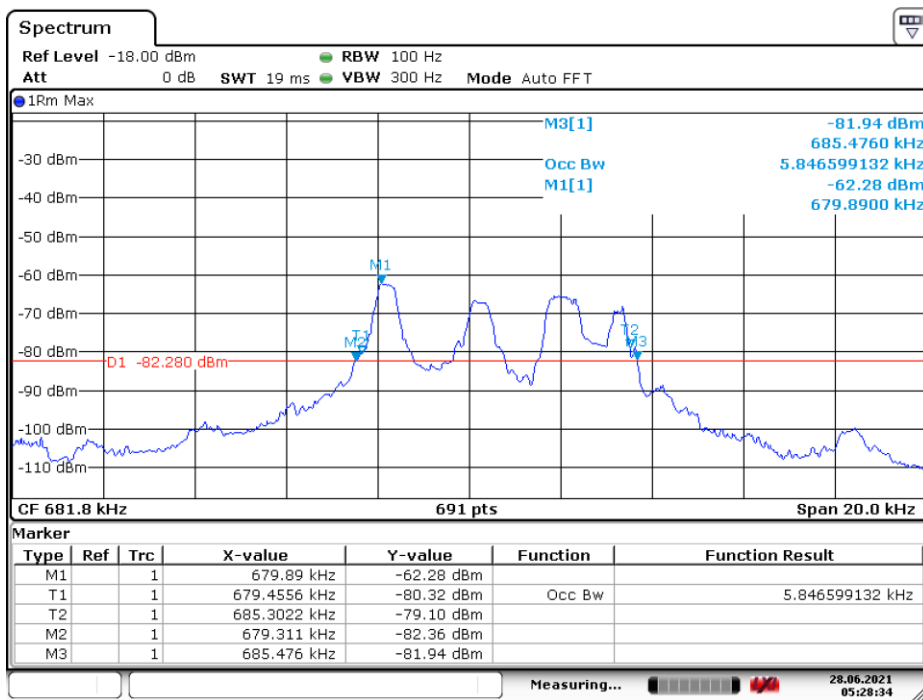
5.5. Uncertainty

The measurement uncertainty is defined as ± 150 Hz

5.6. Test Result

Product	Wondercise Wireless Tracker Charger
Test Item	20dB Occupied Bandwidth
Test Mode	Mode 1

Frequency (kHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
667	6.165	5.847



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6. Antenna Requirement

6.1. Requirement

Antenna Requirement Limit
<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 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 §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 §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.</p>

6.2. Result

Antenna Connector Construction	
<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

_____ The End _____