FCC - TEST REPORT

Report Number	:	**68.760.19.0787.01**	Date of Issue:	**May 20, 2020**
Model	:	**Elite Wireless Charging Stand**		
Product Type	:	Wireless Charger		
Applicant	:	Theragun, Inc.		
Address	:	2803 Colorado Avenue, Santa Monica, California, 90404, United States		
Manufacturer	:	Theragun, Inc.		
Address	:	2803 Colorado Avenue, Santa Monica, California, 90404, United States		
Test Result	:	■ **Positive** ☐ **Negative**		
Total pages including Appendices	:	**22**		

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1 Table of Contents

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2 Details about the Test Laboratory

Details about the Test Laboratory
Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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P.R. China

Telephone: 86 755 8828 6998
Fax: 86 755 828 5299

FCC Registration No.: 514049

3 Description of the Equipment Under Test

Product:	Wireless Charger
Model no.:	Elite Wireless Charging Stand
FCC ID:	2AU6TELITEWCS-01
Options and accessories:	Adapter and USB Cable
Rated Input:	100-240VAC, 50-60Hz, 1.5A (for adapter) 20VDC, 2.25A (for Wireless Charger)
Adapter information:	Manufacturer: EDAC Power Electronics Co., Ltd. Model: EA1046SAR Input voltage: 100-240VAC, 50-60Hz, 1.5A Output voltage: 20VDC, 2.25A
RF Transmission Frequency:	110-165 kHz
Antenna Type:	Integrated coil antenna
Description of the EUT:	The Equipment Under Test (EUT) is a Wireless Charger which operated at 110-165KHz for Wireless charging transmit function.

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2019 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to ANSI C63.10 (2013).

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5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	9	Site 1	☒	☐	☐
--	20dB bandwidth	12	Site 1	☒	☐	☐
§15.205	Restricted bands of operation	12	Site 1	☒	☐	☐
§15.209	Radiated emission	13	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Note 1: The EUT uses an Integrated coil antenna, which gain is 0dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

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6 General Remarks

Remarks

This submittal(s) (test report) complies with Section 15.207, 15.209, 15.205 of the FCC Part 15, Subpart C rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date:	April 8, 2020
Testing Start Date:	April 17, 2020
Testing End Date:	May 19, 2020

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:	Prepared by:	Tested by:
Jessie He	Myron Yu	Tree Zhan
Project Manager	Project Engineer	Test Engineer

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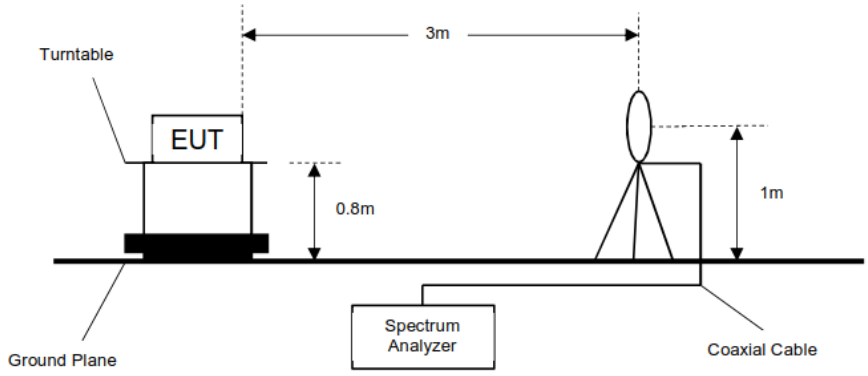
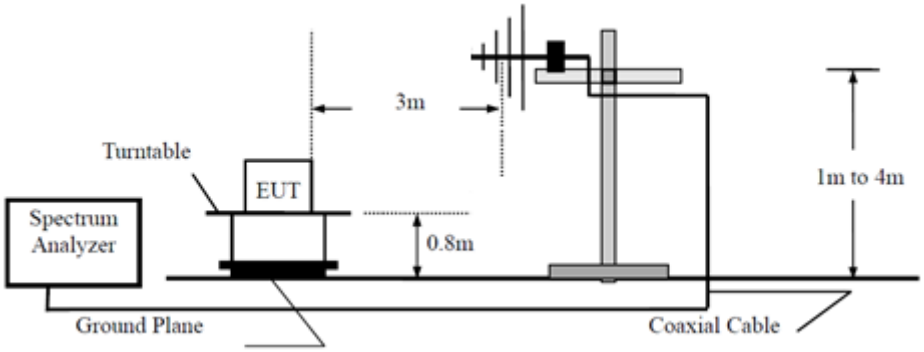
7 Test Setups

7.1 Radiated test setups

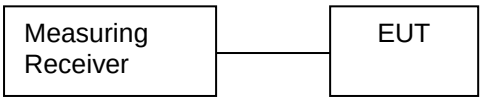
Below 30MHz



30MHz-1GHz



7.2 Conducted RF test setups



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8 Technical Requirement

8.1 Conducted Emission Test

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

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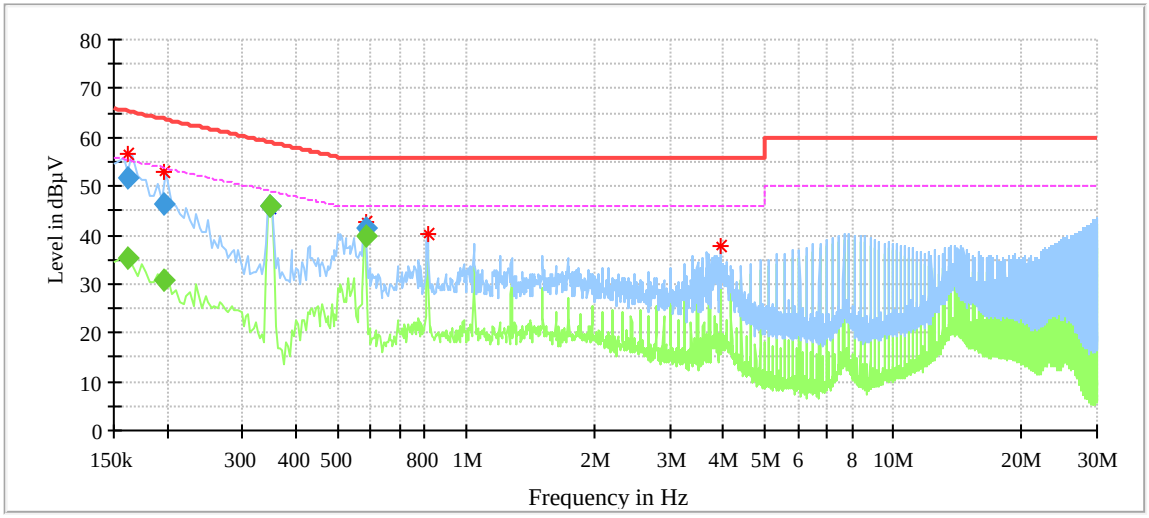
Conducted Emission

Product Type	:	Wireless Charger
M/N	:	Elite Wireless Charging Stand
Operating Condition	:	Charging Mode
Test Specification	:	Line
Comment	:	AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.161500	56.79	---	65.16	8.37	L1	9.5
0.197500	53.08	---	63.69	10.61	L1	9.5
0.349500	---	45.37	48.96	3.60	L1	9.5
0.582500	42.47	---	56.00	13.53	L1	9.6
0.814000	40.01	---	56.00	15.99	L1	9.6
3.946000	37.64	---	56.00	18.36	L1	9.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.161500	---	35.28	55.39	20.10	L1	9.5
0.161500	51.52	---	65.39	13.87	L1	9.5
0.197500	---	30.65	53.72	23.07	L1	9.5
0.197500	46.50	---	63.72	17.21	L1	9.5
0.349500	---	45.75	48.97	3.22	L1	9.5
0.349500	46.14	---	58.97	12.84	L1	9.5
0.582500	---	39.88	46.00	6.12	L1	9.6
0.582500	41.24	---	56.00	14.76	L1	9.6

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

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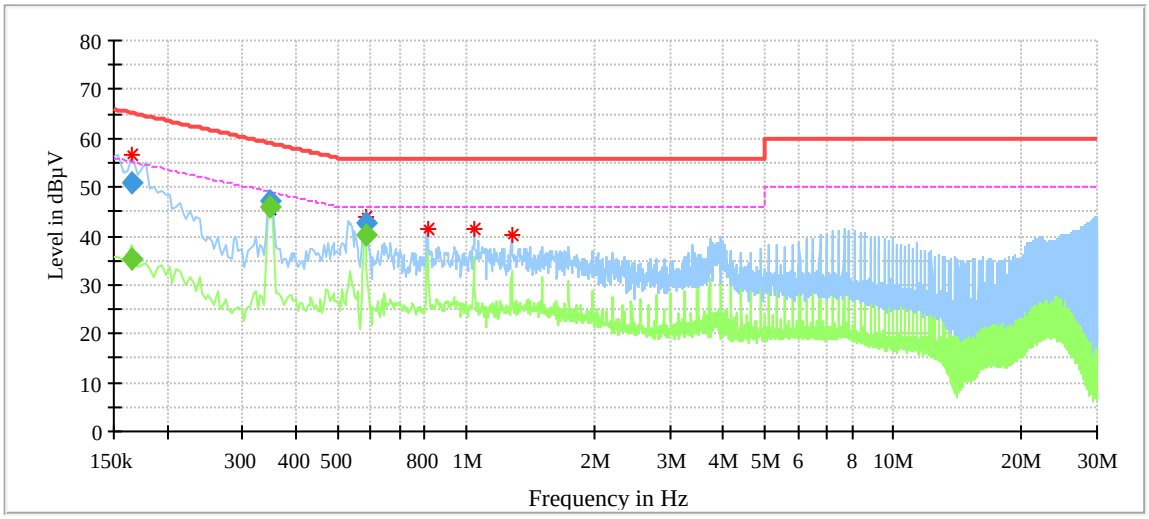
Conducted Emission

Product Type	:	Wireless Charger
M/N	:	Elite Wireless Charging Stand
Operating Condition	:	Charging Mode
Test Specification	:	Neutral
Comment	:	AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165500	56.65	---	65.16	8.51	N	9.5
0.349500	---	45.62	48.96	3.34	N	9.6
0.582500	43.94	---	56.00	12.06	N	9.6
0.814000	41.47	---	56.00	14.53	N	9.6
1.046000	41.51	---	56.00	14.49	N	9.6
1.278000	40.12	---	56.00	15.88	N	9.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165500	---	35.36	55.18	19.82	N	9.5
0.165500	50.80	---	65.18	14.38	N	9.5
0.349500	---	46.11	48.97	2.86	N	9.6
0.349500	46.99	---	58.97	11.99	N	9.6
0.582500	---	40.36	46.00	5.64	N	9.6
0.582500	42.67	---	56.00	13.33	N	9.6

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
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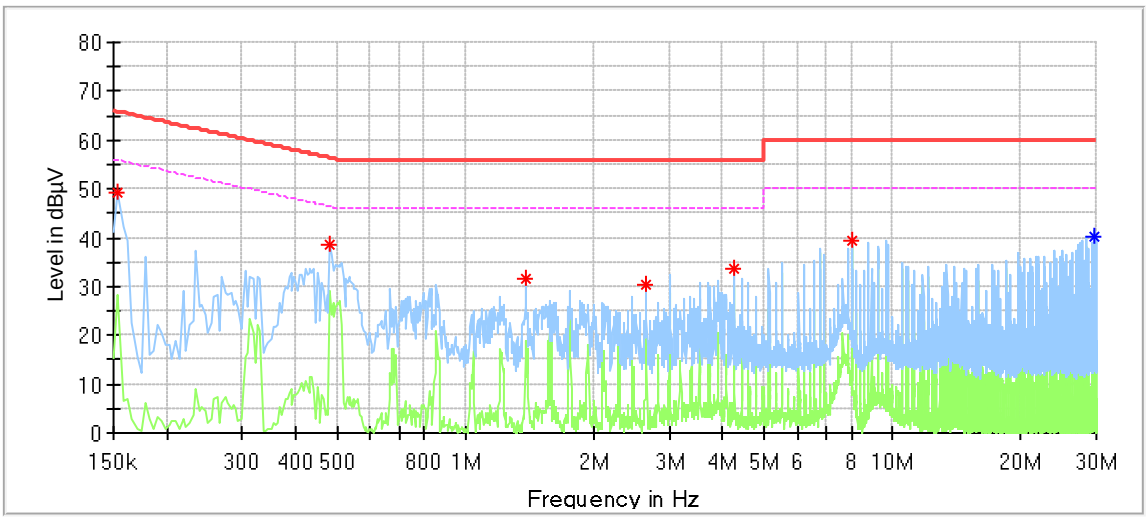
Conducted Emission

Product Type	:	Wireless Charger
M/N	:	Elite Wireless Charging Stand
Operating Condition	:	Standby Mode
Test Specification	:	Line
Comment	:	AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	49.03	---	65.78	16.75	L1	9.5
0.482000	38.54	---	56.31	17.77	L1	9.5
1.382000	31.68	---	56.00	24.32	L1	9.6
2.638000	30.47	---	56.00	25.53	L1	9.6
4.266000	33.72	---	56.00	22.28	L1	9.6
8.030000	39.19	---	60.00	20.81	L1	9.7
29.602000	---	40.25	50.00	9.75	L1	9.8

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

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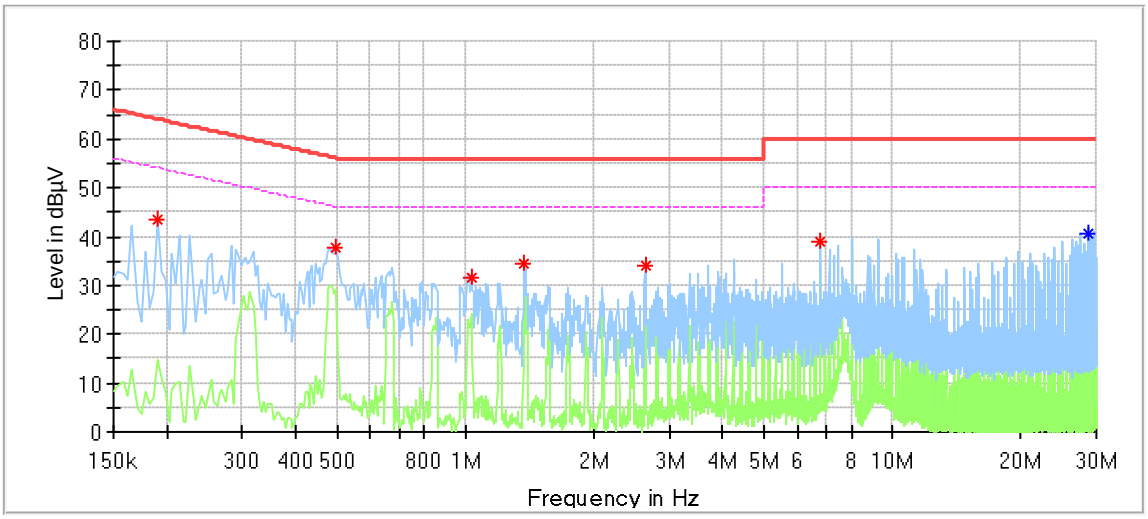
Conducted Emission

Product Type	:	Wireless Charger
M/N	:	Elite Wireless Charging Stand
Operating Condition	:	Standby Mode
Test Specification	:	Neutral
Comment	:	AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.190000	43.60	---	64.04	20.43	N	9.5
0.498000	37.89	---	56.03	18.14	N	9.6
1.030000	31.67	---	56.00	24.34	N	9.6
1.370000	34.43	---	56.00	21.57	N	9.6
2.634000	34.03	---	56.00	21.97	N	9.6
6.774000	39.15	---	60.00	20.85	N	9.7
28.850000	---	40.47	50.00	9.53	N	9.9

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

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8.2 20 dB Bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=200Hz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 20 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 20 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]
No Limit

Test result

Operating mode	20dB bandwidth KHz	Result		Result
		F_L (KHz)	F_H (KHz)	
Charging mode	2.77	117.42 --	-- 119.95	Pass

The fundamental frequency is outside the restricted bands of 15.205 section.

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8.3 Radiated Emission Test

Test Method

1: The EUT was place on a turn table which is 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5: Use the following spectrum analyzer settings According to C63.10:

Limit

the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency MHz	Field Strength μV/m	Field Strength dBμV/m	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	QP	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dBμV/m)=Limit 300m(dBμV/m)+40Log(300m/3m) (Below 30MHz)
Note 2: Limit 3m(dBμV/m)=Limit 30m(dBμV/m)+40Log(30m/3m) (Below 30MHz)

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Radiated emissions test (9KHz-30MHz)

Product Type : Wireless Charger
M/N : Elite Wireless Charging Stand
Operating Condition : Charging Mode

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor	Result
	MHz	dBµV/m		dBµV/m		dBµV/m	(dB)	
9KHz-30MHz	0.115455	99.90	H	106.66	QP	6.76	20	Pass
	0.572875	64.13	H	72.62	QP	8.49	20	Pass
	0.806700	60.66	H	69.60	QP	8.94	20	Pass
	0.115314	97.45	V	106.67	QP	9.22	20	Pass
	0.806700	56.99	V	69.60	QP	12.61	20	Pass
	1.035550	55.15	V	67.40	QP	12.25	20	Pass

Product Type : Wireless Charger
M/N : Elite Wireless Charging Stand
Operating Condition : Standby Mode

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor	Result
	MHz	dBµV/m		dBµV/m		dBµV/m	(dB)	
9KHz-30MHz	0.125329	90.86	H	105.64	QP	14.78	20	Pass
	0.150000	88.32	H	104.08	QP	15.76	20	Pass
	0.642525	65.25	H	71.44	QP	6.19	20	Pass
	0.125466	87.92	V	105.63	QP	17.71	20	Pass
	0.150000	78.95	V	104.08	QP	25.13	20	Pass
	0.622625	61.46	V	71.72	QP	10.26	20	Pass

Remark:

(1) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
(2) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

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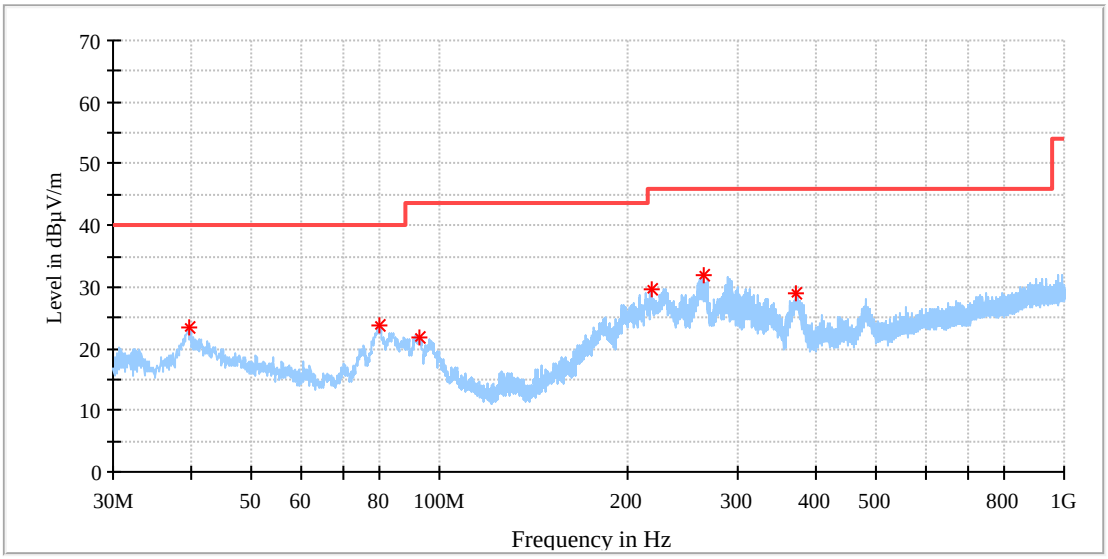
Radiated emissions test (30MHz-1000MHz)

Model:	Elite Wireless Charging Stand
Test Mode:	Charging Mode
Test Voltage:	AC 120V/60Hz
Remark	Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.578750	23.53	40.00	16.47	200.0	H	250.0	16
79.833750	23.65	40.00	16.35	200.0	H	0.0	11
92.746875	21.68	43.50	21.82	200.0	H	0.0	15
217.755625	29.73	43.50	16.27	100.0	H	80.0	16
264.194375	31.98	46.00	14.02	100.0	H	268.0	18
373.076875	28.91	46.00	17.09	100.0	H	88.0	20

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

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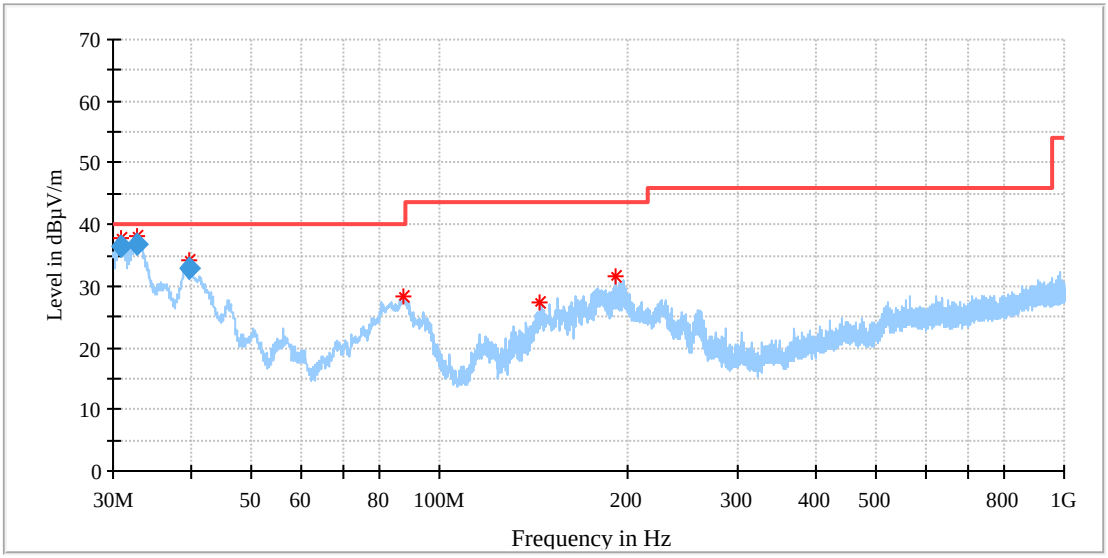
Model:	Elite Wireless Charging Stand
Test Mode:	Charging Mode
Test Voltage:	AC 120V/60Hz
Remark	Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.788125	37.90	40.00	2.1	100.0	V	0.0	14
32.673438	37.97	40.00	2.03	115.0	V	21.0	13
39.700000	34.25	40.00	5.75	100.0	V	204.0	16
87.290625	28.45	40.00	11.55	100.0	V	54.0	13
145.066250	27.32	43.50	16.18	100.0	V	220.0	12
191.686875	31.61	43.50	11.89	100.0	V	38.0	15

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.788125	36.56	40.00	3.44	100.0	V	0.0	14
32.673438	36.81	40.00	3.19	115.0	V	21.0	13
39.700000	32.96	40.00	7.04	100.0	V	204.0	16

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

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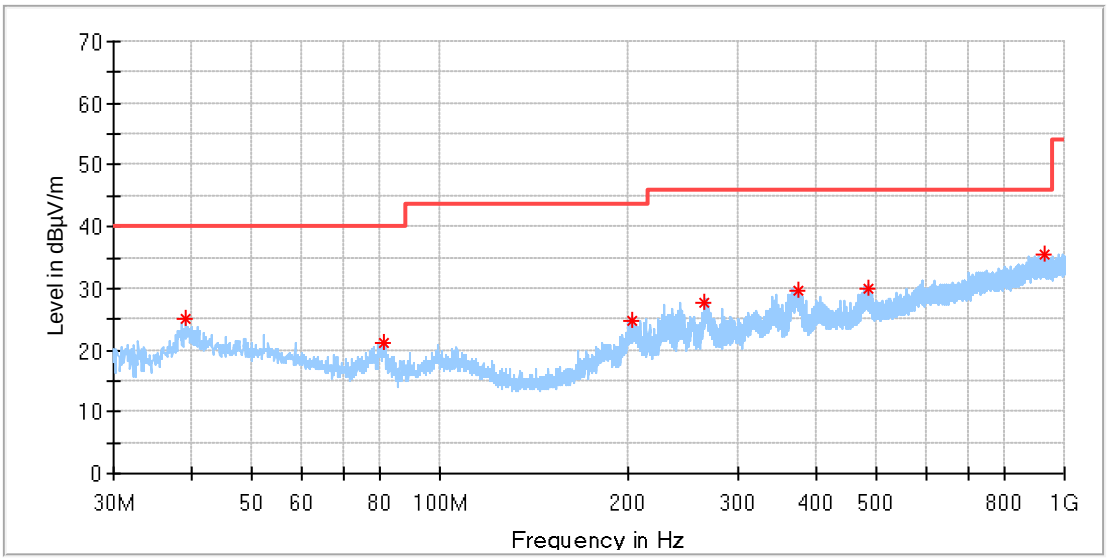
Radiated emissions test (30MHz-1000MHz)

Model:	Elite Wireless Charging Stand
Test Mode:	Standby Mode
Test Voltage:	AC 120V/60Hz
Remark	Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.154375	24.95	40.00	15.05	200.0	H	227.0	16
81.106875	21.21	40.00	18.79	200.0	H	35.0	11
203.266250	24.71	43.50	18.79	100.0	H	140.0	16
265.164375	27.74	46.00	18.26	100.0	H	140.0	18
375.077500	29.63	46.00	16.37	100.0	H	140.0	21
486.203125	30.10	46.00	15.90	200.0	H	143.0	23
931.675625	35.48	46.00	10.52	200.0	H	0.0	30

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

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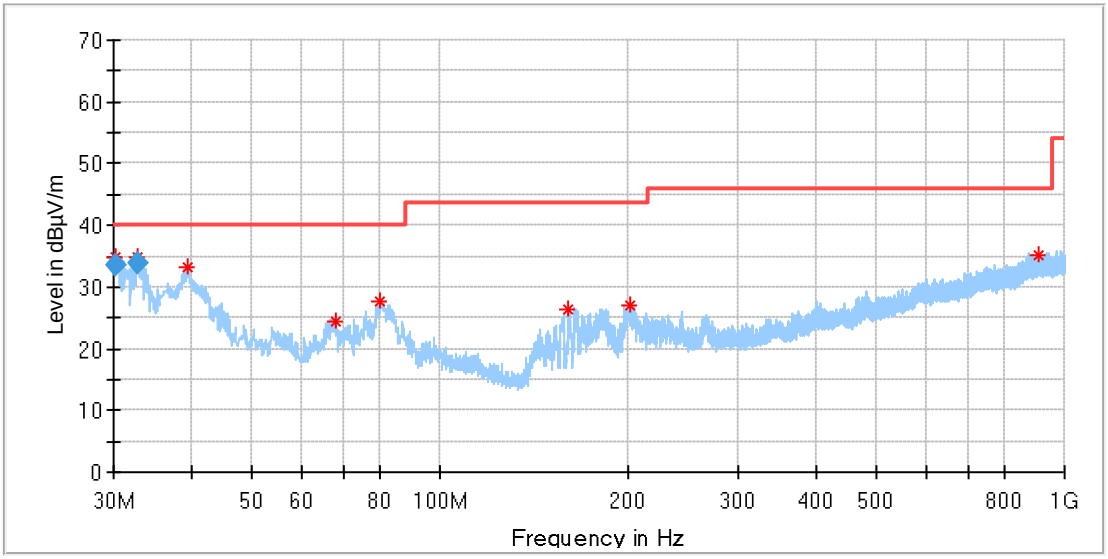
Model:	Elite Wireless Charging Stand
Test Mode:	Standby Mode
Test Voltage:	AC 120V/60Hz
Remark	Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.303125	34.78	40.00	5.22	100.0	V	0.0	14
32.849375	34.88	40.00	5.12	100.0	V	0.0	14
39.518125	33.21	40.00	6.79	100.0	V	207.0	16
67.830000	24.35	40.00	15.65	100.0	V	100.0	15
80.136875	27.73	40.00	12.27	100.0	V	84.0	11
160.828750	26.26	43.50	17.24	100.0	V	46.0	13
201.811250	27.11	43.50	16.39	100.0	V	0.0	16
911.608750	35.00	46.00	11.00	100.0	V	330.0	30

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.303125	33.48	40.00	6.52	100.0	V	0.0	14
32.849375	33.80	40.00	6.20	100.0	V	0.0	14

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

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9 Test Equipment List

List of Test Instruments

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	2020-8-20
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	2020-6-22
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	2020-7-7
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	2020-6-28
Signal Generator	Rohde & Schwarz	SMY01	68-4-48-16-001	839369/005	2020-6-28
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	68-4-90-14-001	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version9.15.00	N/A

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	2020-6-28
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	2020-7-19
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	2020-6-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-003-A10	Version9.15.00	N/A

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10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz	3.21dB
Uncertainty for Radiated Emission in 3m chamber 9KHz-30MHz	4.76dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 5.12dB Vertical: 5.10dB

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