

TEST REPORT

Product Name : ESR Halolock Wireless Car Charger with

Product Name : CryoBoost

Model Number: 2C540

FCC ID : 2APEW-2C540

Prepared for : Electronic Silk Road (Shenzhen) Tech Co., Ltd

Address : 7th F, Building 10B, Taihua Wutong Industrial Park, Gushu

Development zones, Xixiang Street, Bao'an Area, Shenzhen,

China

Prepared by : EMTEK (SHENZHEN) CO., LTD.

Address : Building 69, Majialong Industry Zone, Nanshan District,

Shenzhen, Guangdong, China

Tel: (0755) 26954280 Fax: (0755) 26954282

Report Number : ENS2203250085W00101R

Date(s) of Tests : March 25, 2022 to April 15, 2022

Date of issue: April 15, 2022

\$二维码\$



Table of Contents

1	EU	T TECHNICAL DESCRIPTION	4
2	SUI	MMARY OF TEST RESULT	5
3		ST METHODOLOGY	
	3.1 3.2 3.3 3.4 3.5	GENERAL DESCRIPTION OF APPLIED STANDARDS MEASUREMENT EQUIPMENT USED DESCRIPTION OF TEST MODES. INDEPENDENT OPERATION MODES. TEST MANNER.	6
4	FAC	CILITIES AND ACCREDITATIONS	
	4.1 4.2	FACILITIESLABORATORY ACCREDITATIONS AND LISTINGS	8
5		ST SYSTEM UNCERTAINTY	
6	SE1	TUP OF EQUIPMENT UNDER TEST	10
	6.1 6.2 6.3 6.4 6.5	RADIO FREQUENCY TEST SETUP 1	10 11 12
7	TES	ST REQUIREMENTS	
	7.1 7.2 7.3	OCCUPIED BANDWIDTHRADIATED SPURIOUS EMISSION	15 25
8	AN	TENNA APPLICATION	26



TEST RESULT CERTIFICATION

Applicant : Electronic Silk Road (Shenzhen) Tech Co., Ltd.

Address 7th F, Building 10B, Taihua Wutong Industrial Park, Gushu Development zones,

Xixiang Street, Bao'an Area, Shenzhen, China

Manufacturer : Electronic Silk Road (Shenzhen) Tech Co., Ltd.

Address 7th F, Building 10B, Taihua Wutong Industrial Park, Gushu Development zones,

Xixiang Street, Bao'an Area, Shenzhen, China

EUT : ESR Halolock Wireless Car Charger with CryoBoost

Model Name : 2C540
Trademark : ESR

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS	

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207&15.209.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	March 25, 2022 to April 15, 2022
Prepared by :	Luo Pei Ye
	Luo peiye /Editor
Reviewer:	Joe Xia/Editor
Approve & Authorized Signer :	Lisa Wang/Manager



1 EUT TECHNICAL DESCRIPTION

Product: ESR Halolock Wireless Car Charger with CryoBoost	
Model Number:	2C540
Power Supply Input: DC 9V/2A, DC 12V/2A Output: 5W/7.5W	
Operating Frequency	110-205KHz
Modulation	FSK
Antenna Type	Induction coil antenna
Antenna Gain	0 dBi
Temperature Range	0°C ~ +60°C

Note: for more details, please refer to the User's manual of the EUT.



2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
2.1049	Occupied Bandwidth	PASS	
15.209	Radiated Spurious Emissions	PASS	
15.207 Conducted Emission		PASS	
NOTE1: N/A (Not Applicable)			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2APEW-2C540 filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.





3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C

3.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2021/5/15	1Year
AMN	Rohde & Schwarz	ENV216	5	2021/5/15	1Year
AMN	Kyoritsu	KNW-407	8-1492-9	2021/5/16	1Year

Radiated Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2021/5/15	1 Year
Pre-Amplifie	Lunar EM	LNA30M3G-2 5	J10100000070	2021/5/15	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	661	2021/8/22	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2020/7/4	2 Year
Pre-Amplifie	SKET	LNPA_0118G- 45	SK2019051801	2021/5/15	1 Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2021/6/12	2 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2021/5/15	1 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1178	2020/7/4	2 Year
Band reject Filter(50dB)	WI/DE	WRCGV-2400 (2400-2485M Hz)	2	2021/5/15	1 Year

Radio Frequency Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
Wireless Connectivity Tester	R&S	CMW270	102543	2021/8/27	1Year
Automatic Control Unit	Tonscend	JS0806-2	2118060480	2021/11/18	1Year
Signal Analyzer	KEYSIGHT	N9010B	MY60242456	2022/1/21	1Year
Analog Signal Generator	KEYSIGHT	N5173B	MY61252625	2021/10/29	1Year
UP/DOWN-Converter	R&S	CMW-Z800A	100274	2021/9/14	1Year
Vector Signal Generator	KEYSIGHT	N5182B	MY61252674	2021/10/28	1Year
Frequency Extender	KEYSIGHT	N5182BX07	MY59362541	2021/11/23	1Year
Temperature&Humidity test chamber	ESPEC	EL-02KA	12107166	2021/7/3	1 Year



3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its charging mode condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed.

3.4 INDEPENDENT OPERATION MODES

Test ModeA	Description	Remark
	100% Load	With dummy load
Mode A Charging(5W)	50% Load	With dummy load
Charging(3VV)	10% Load	With dummy load

Test ModeB	Description	Remark
	100% Load	With dummy load
Mode B Charging(7.5W)	50% Load	With dummy load
Griarging(7.5vv)	10% Load	With dummy load

3.5 TEST MANNER

Test Items	Test Voltage	Operation Modes	Worst case
Occupied Bandwidth	DC9V, DC12V	Mode A, B	Mode B(100% Load)
Radiated Spurious Emissions	DC9V, DC12V	Mode A, B	Mode B(100% Load)
Conducted Emission	DC9V, DC12V	Mode A, B	Mode B(100% Load)

Notes: The EUT supports charging the load while charging itself.

All wireless charging modes have been tested, and the worst mode is shown below.



4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS

The Certificate Registration Number is L2291.

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01.

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China



5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
All emission, radiated	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%





6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

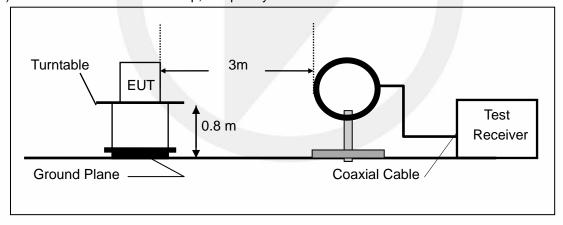
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

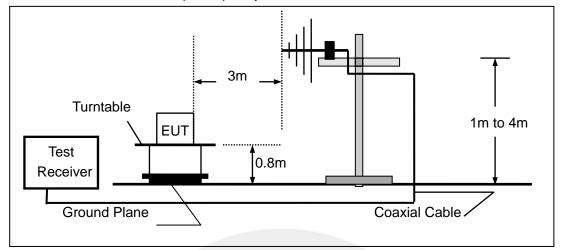
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz





(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz

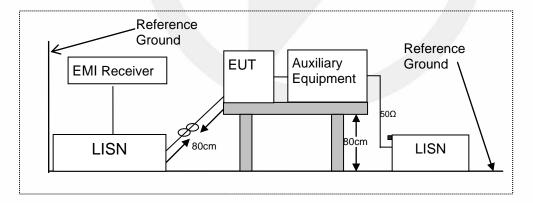


6.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

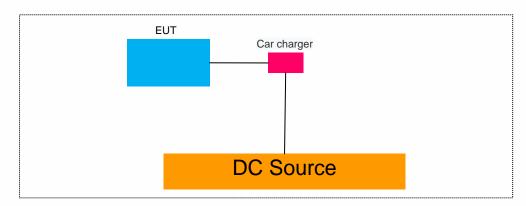
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m

According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
1	/	1	/

Auxiliary Cable List and Details								
Cable Description	Length (m)	Length (m) Shielded/Unshielded \						
1	/	1	/					

Auxiliary Equipment List and Details										
Description	Manufacturer	Model	Serial Number							
Dummy Load	HFJ-AR	ME47562021	/							

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. Unless otherwise denoted as EUT in <code>[Remark]</code> column, device(s) used in tested system is a support equipment



7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 2.1049

7.1.2 Conformance Limit

No limit requirement.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (30Hz).

Set the video bandwidth (VBW) =3 times RBW.

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

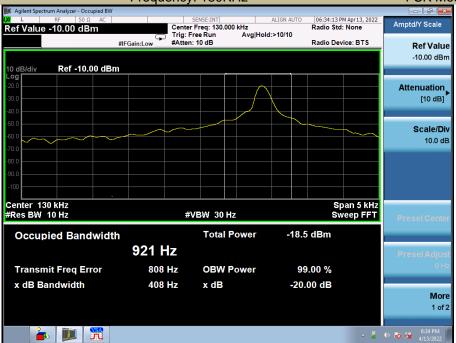
7.1.5 Test Results

Temperature :	25 ℃	Test Date :	April 01, 2022
Humidity:	65 %	Test By:	XXH

Modulation Mode	Channel Number	Channel Frequency (KHz)	-20dB Measurement Bandwidth (kHz)	Limit (kHz)	Verdict
FSK	/	130KHz	0.408	N/A	PASS
Note: N/A (Not	Applicable)				



Test Model -20dB Bandwidth Frequency: 130KHz FSK Modulation





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.209

7.2.2 Conformance Limit

		FCC Par	t 15.209				
	Field Streng		Field Strength Limitation Frequency tion at 3m				
Frequency	Limitation		Meas	urement Dist			
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)			
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80			
0.490 - 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40			
1.705 - 30.00	30	30m	100* 30	20log 30 + 40			
30.0 - 88.0	100	3m	100	20log 100			
88.0 – 216.0	150	3m	150	20log 150			
216.0 - 960.0	200	3m	200	20log 200			
Above 960.0	500	3m	500	20log 500			

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Remark: 1. Em

- 1. Emission level in dBuV/m=20 log (uV/m)
- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



7.2.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.2.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)

VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

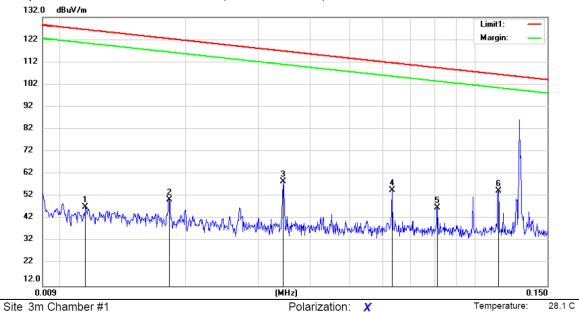
Repeat above procedures until all frequency measured was complete.

7.2.5 Test Results



43 %

■ Spurious Emission below 150kHz (9KHz to 150kHz)



Limit: (RE)FCC PART 15.209(9K-30M)

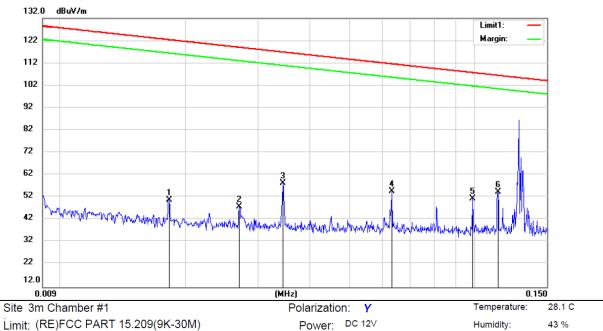
Mode: Charging(7.5W) 100% Load

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0114	26.67	20.59	47.26	126.45	-79.19	peak			
2	0.0182	30.04	20.59	50.63	122.39	-71.76	peak			
3	0.0343	37.92	20.63	58.55	116.89	-58.34	peak			
4	0.0631	33.94	20.72	54.66	111.59	-56.93	peak			
5	0.0812	26.19	20.69	46.88	109.40	-62.52	peak			
6 *	0.1142	33.71	20.69	54.40	106.44	-52.04	peak			

Power: DC 12V





Limit: (RE)FCC PART 15.209(9K-30M)

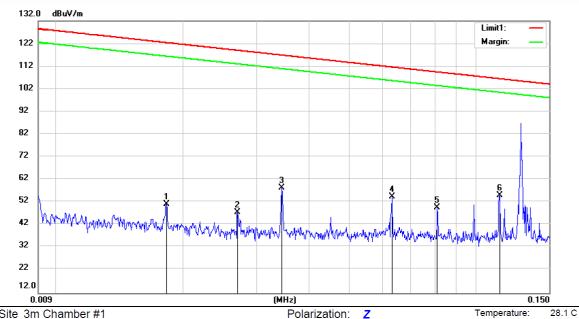
Mode: Charging (7.5W) 100% Load

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0182	30.18	20.59	50.77	122.39	-71.62	peak			
2	0.0270	27.13	20.59	47.72	118.96	-71.24	peak			
3	0.0343	37.85	20.63	58.48	116.89	-58.41	peak			
4	0.0631	33.98	20.72	54.70	111.59	-56.89	peak			
5	0.0991	30.62	20.74	51.36	107.67	-56.31	peak			
6 *	0.1142	33.78	20.69	54.47	106.44	-51.97	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

EUT: ESR Halolock Wireless Car Charger

Mode: Charging(7.5W) 100% Load

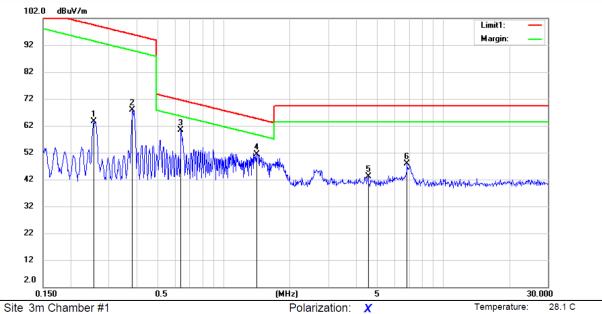
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0182	30.58	20.59	51.17	122.39	-71.22	peak			
2	0.0270	26.87	20.59	47.46	118.96	-71.50	peak			
3	0.0343	37.77	20.63	58.40	116.89	-58.49	peak			
4	0.0631	33.75	20.72	54.47	111.59	-57.12	peak			
5	0.0810	28.88	20.69	49.57	109.43	-59.86	peak			
6 *	0.1142	34.28	20.69	54.97	106.44	-51.47	peak			

Power: DC 12V



43 %



Power: DC 12V

Limit: (RE)FCC PART 15.209(9K-30M)

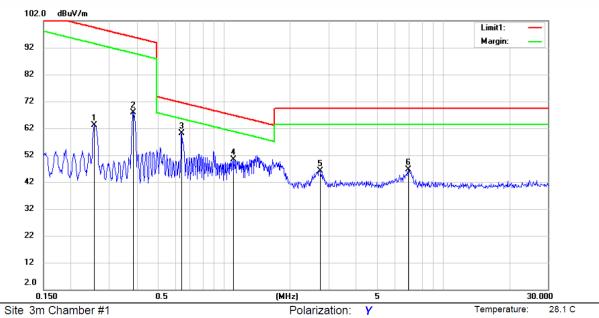
Mode: Charging(7.5W) 100% Load

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.2562	43.07	20.50	63.57	99.43	-35.86	peak			
2		0.3832	47.05	20.76	67.81	95.93	-28.12	peak			
3	*	0.6372	39.23	21.03	60.26	71.52	-11.26	peak			
4		1.4107	30.36	21.01	51.37	64.64	-13.27	peak			
5		4.5494	22.63	20.57	43.20	69.50	-26.30	peak			
6		6.8412	27.38	20.58	47.96	69.50	-21.54	peak			



43 %



Limit: (RE)FCC PART 15.209(9K-30M)

Mode: Charging(7.5W) 100% Load

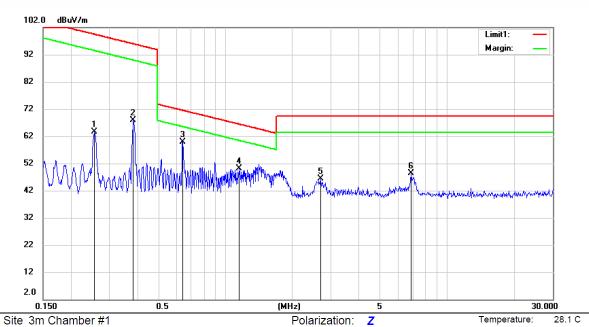
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∀	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1	0.2562	42.67	20.50	63.17	99.43	-36.26	peak			
2	0.3852	47.12	20.76	67.88	95.89	-28.01	peak			
3 *	0.6406	39.07	21.03	60.10	71.48	-11.38	peak			
4	1.1056	29.21	21.07	50.28	66.75	-16.47	peak			
5	2.7356	25.33	20.70	46.03	69.50	-23.47	peak			
6	6.9141	25.99	20.58	46.57	69.50	-22.93	peak			

Power: DC 12V



43 %



Limit: (RE)FCC PART 15.209(9K-30M)

Mode: Charging(7.5W) 100% Load

Note:

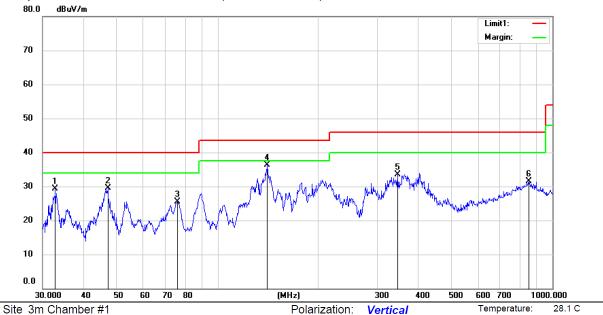
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2562	43.17	20.50	63.67	99.43	-35.76	peak			
2	0.3832	47.14	20.76	67.90	95.93	-28.03	peak			
3 *	0.6406	38.77	21.03	59.80	71.48	-11.68	peak			
4	1.1534	29.10	21.06	50.16	66.39	-16.23	peak			
5	2.6783	25.72	20.70	46.42	69.50	-23.08	peak			
6	6.8776	27.83	20.58	48.41	69.50	-21.09	peak			

Power: DC 12V



43 %

■ Spurious Emission Above 30MHz (30MHz to 1GHz)



Power: DC 12V

Limit: (RE)FCC PART 15 CLASS B

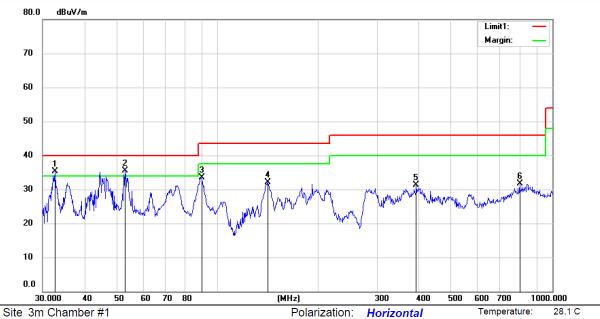
Mode: Charging(7.5W) 100% Load

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.7774	43.67	-14.34	29.33	40.00	-10.67	QP			
2		47.0773	42.01	-12.48	29.53	40.00	-10.47	QP			
3		75.9108	39.92	-14.33	25.59	40.00	-14.41	QP			
4	*	140.8968	50.71	-14.40	36.31	43.50	-7.19	QP			
5		345.4438	41.32	-7.72	33.60	46.00	-12.40	QP			
6		851.4084	28.58	2.83	31.41	46.00	-14.59	QP			



43 %



Power: DC 12V

Limit: (RE)FCC PART 15 CLASS B

Mode: Charging (7.5W) 100% Load

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	İ	32.7774	49.70	-14.34	35.36	40.00	-4.64	QP			
2	*	53.0150	47.33	-11.86	35.47	40.00	-4.53	QP			
3		89.8260	49.14	-15.59	33.55	43.50	-9.95	QP			
4		141.3298	46.52	-14.38	32.14	43.50	-11.36	QP			
5		392.9553	38.00	-6.62	31.38	46.00	-14.62	QP			
6		800.0310	29.65	1.97	31.62	46.00	-14.38	QP			



7.3 CONDUCTED EMISSION TEST

7.3.1 Applicable Standard

According to FCC Part 15.207(a)

7.3.2 Conformance Limit

Conducted Emission Limit					
Frequency(MHz)	Quasi-peak	Average			
0.15-0.5	66-56	56-46			
0.5-5.0	56	46			
5.0-30.0	60	50			

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

7.3.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

7.3.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

7.3.5 Test Results

N/A.

EUT is powered by DC.

The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



8 ANTENNA APPLICATION

8.1.1 Antenna Requirement

Standard 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 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.

FCC CRF Part 15.203

For intentional device, according to FCC 47 CFR Section 15.203, 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. if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.1.2 Resu	lt
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PASS.

The EU [*] Note:	T has ⊠ □	1 antenna: a Induction Coil Antenna for WPT, the gain is 0 dBi; Antenna use a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement. The appropriate has to be preferringly installed (places provide method of installation).
	∟ Pleas	The antenna has to be professionally installed (please provide method of installation) e refer to the attached document Internal Photos to show the antenna connector.

*** End of Report ***

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