

Prüfbericht-Nr.: Test report no.:	CN24MI98 002	Auftrags-Nr.: Order no.:	168505531	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-09-24	
Auftraggeber: Client:	NINGBO FUERDA SMARTECH CO., LTD No. 1493-1569 Xiaolin Avenue, Xiaolin Town, Cixi City, Zhejiang, P.R. China			
Prüfgegenstand: Test item:	Cradle Mobile Wireless Charger			
Bezeichnung / Typ-Nr.: Identification / Type no.:	TWLC001, TWLC002			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.215 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: Date of sample receipt:	2024-10-11	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A003829057-001~005			
Prüfzeitraum: Testing period:	2024-11-10 - 2024-11-11			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2024-11-29	Signed by: Bell Hu	Ausstellungsdatum: Issue date:	2024-11-29
			Signed by: Jonathan Li	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BLYG-TWLC001			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB BANDWIDTH

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of FCC Part 15C.

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P. R. China.

A2LA Certificate Number: 5162.01

FCC Accreditation Designation No.: 694916

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
All emissions, radiated	$\pm 4.17 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is wireless charger, vehicle use.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Cradle Mobile Wireless Charger
Type Designation:	TWLC001, TWLC002*
FCC ID:	2BLYG-TWLC001
Operating Voltage:	10.5-16 V DC
Testing Voltage:	DC 12V (Rated)
Operating Temperature Range:	-20°C ~ +65 °C
Technical Specification of WPT	
Frequency Range:	111-148 kHz
Operating Frequency:	120.3 kHz, 127.0 kHz, 127.5 kHz
Type of Modulation:	FSK, ASK
Antenna Type:	Induction coil antenna
Wireless output:	Wireless 5W/7.5W/10W/15W

*The two models are electrically identical, the only difference is that TWLC001 has the CAN terminal resistance, which not included in TWLC002. Refer to the model differences letter for details. There are two configurations on port locations for TWLC001 and TWLC002, one is at the bottom and the other is on the side, which has no impacts on EMC and RF characteristics.

Based on above changes, full test performed on TWLC001 with the port locating on the bottom.

3.3 Independent Operation Modes

The basic operation modes are:

A. The wireless output:

1. Base station in standby-by, idle mode
2. Communication before charging, adjustment charging mode/position
3. Communication
4. Energy transmission

B. Off

All wireless output modes (5W/7.5W/10W/15W) tested for A1-A4, only worst-case reported.

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3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - User Manual |
| - Block Diagram | - Schematics |
| - ID Label and Location Info | - Operation Description |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Wireless charging load	YBZ	YBZ1.1	/	5W/7.5W/10W/15W
DC power Supply	Topward	3303D	809332	0-30 Volts, 0-3 Amps

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

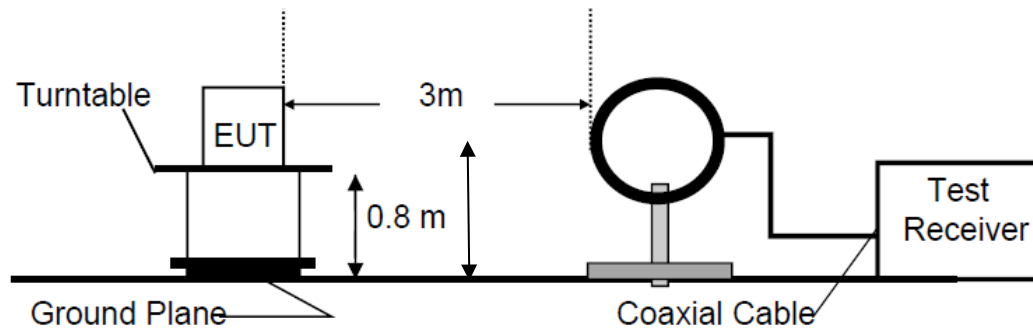
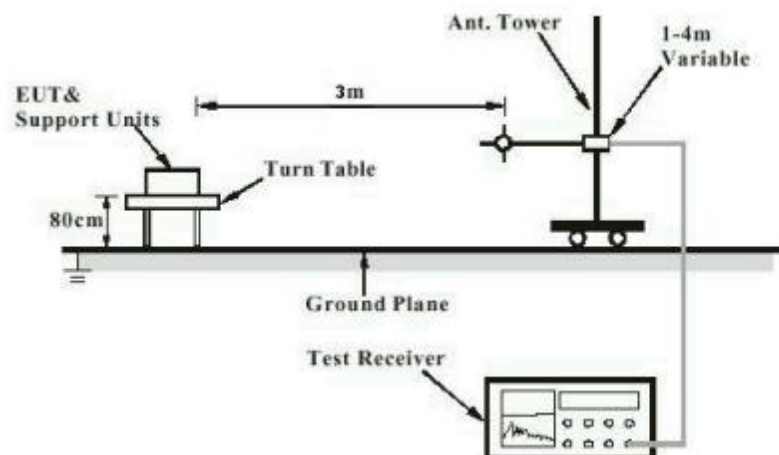


Diagram of Measurement Configuration for Radiation Test (30MHz to 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : Part 15.203
the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.215(c)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-10
Input voltage : DC 12V
Operation mode : A1~A4
Ambient temperature : 23 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.209 & 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-11-10 to 2024-11-11
Input voltage	: DC 12V
Operation mode	: A1~A4
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

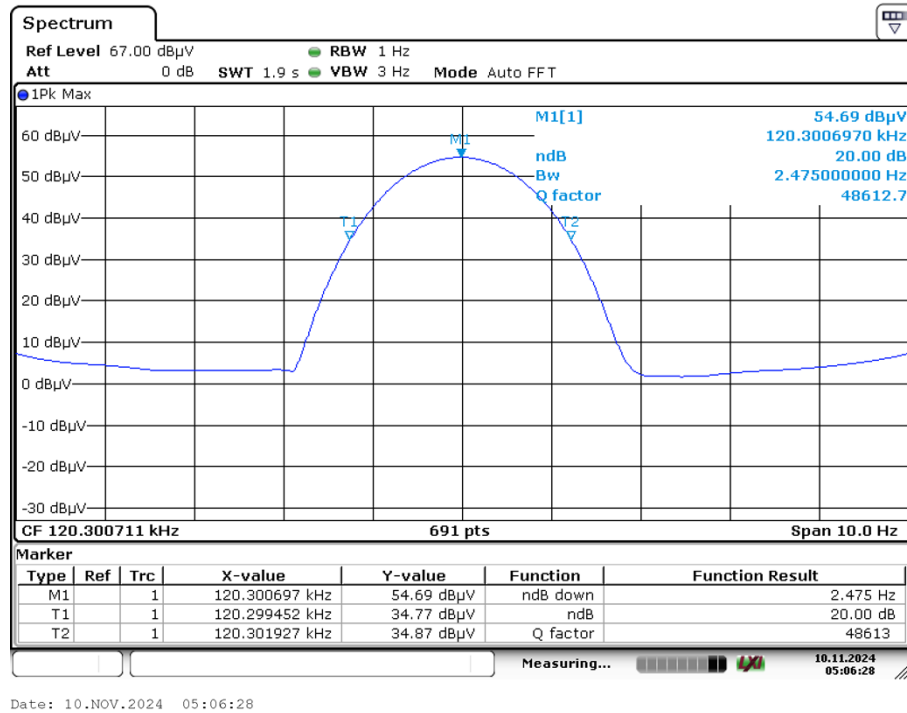
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Appendix A: Test Results of FCC Part 15C

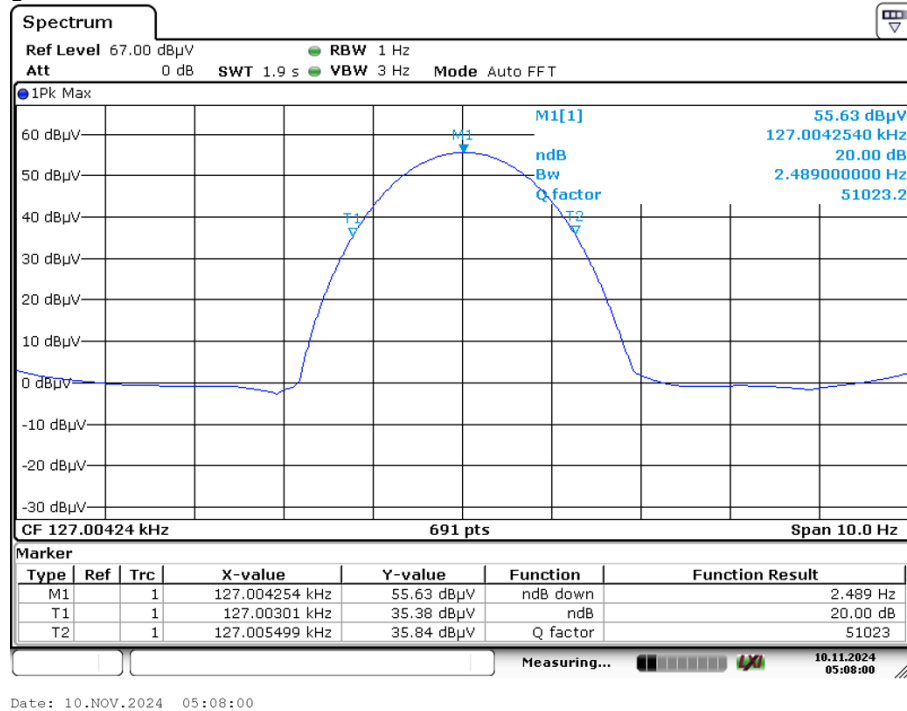
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Wireless charging, 127.0 kHz	2
Wireless charging, 127.5 kHz	3
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Wireless charging, 120.3 kHz	4
Wireless charging, 127.0 kHz	11
Wireless charging, 127.5 kHz	18
Standby mode	25

Appendix A.1: Test Results of 20dB Bandwidth

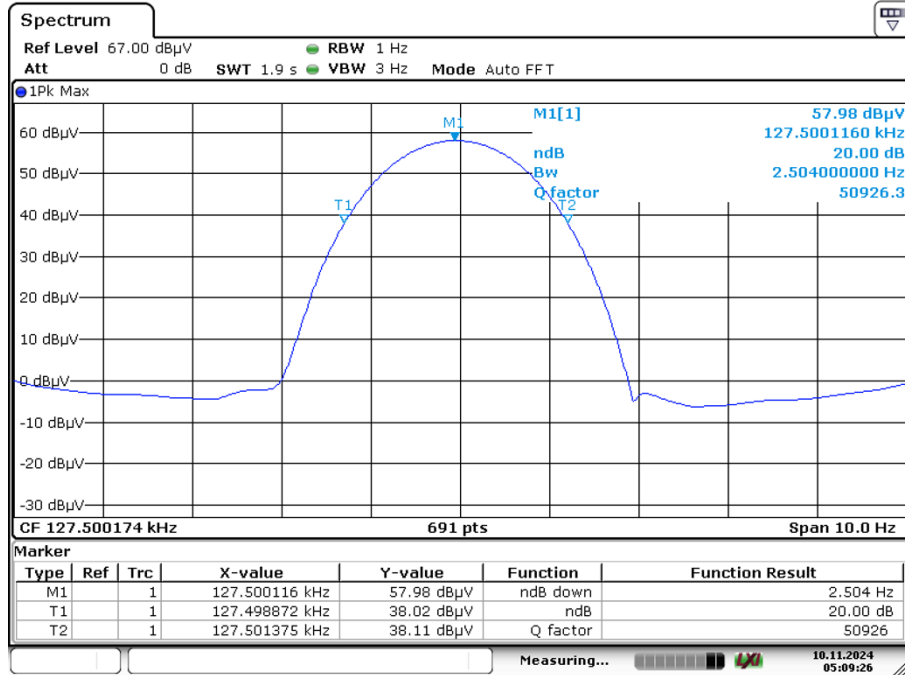
Wireless charging, 120.3 kHz



Wireless charging, 127.0 kHz



Wireless charging, 127.5 kHz



Date: 10.NOV.2024 05:09:26

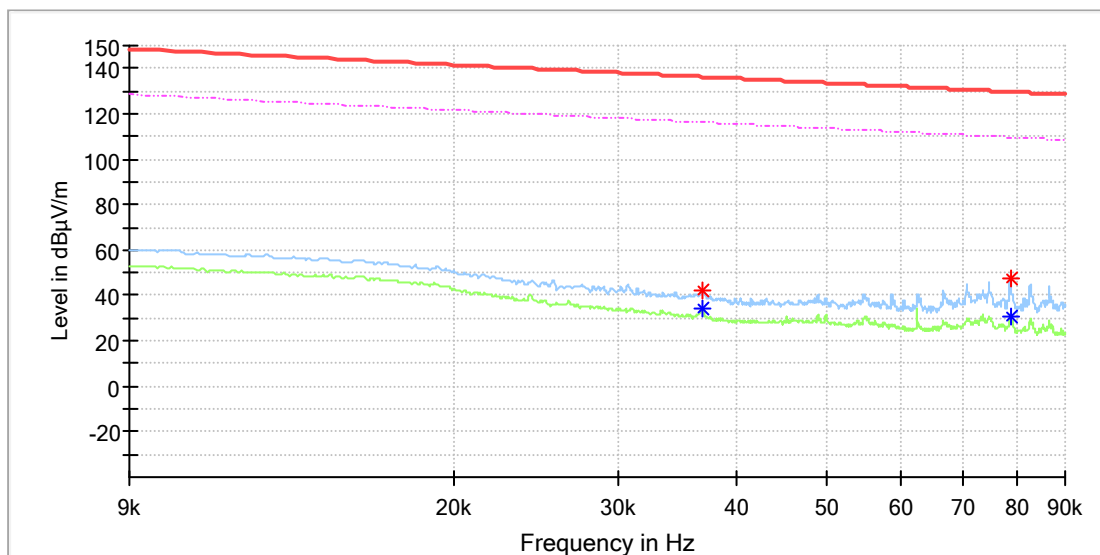
Appendix A.2: Test Results of Radiated Spurious Emission

Note: The highest waveform in the figure is WPT Fundamental.

Wireless charging, 120.3 kHz

EUT Information

EUT Name:	Cradle Mobile Wireless Charger
Model:	TWLC001
Test Mode:	120.3kHz
Order No/Sample No:	168505531/A003829057-001
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

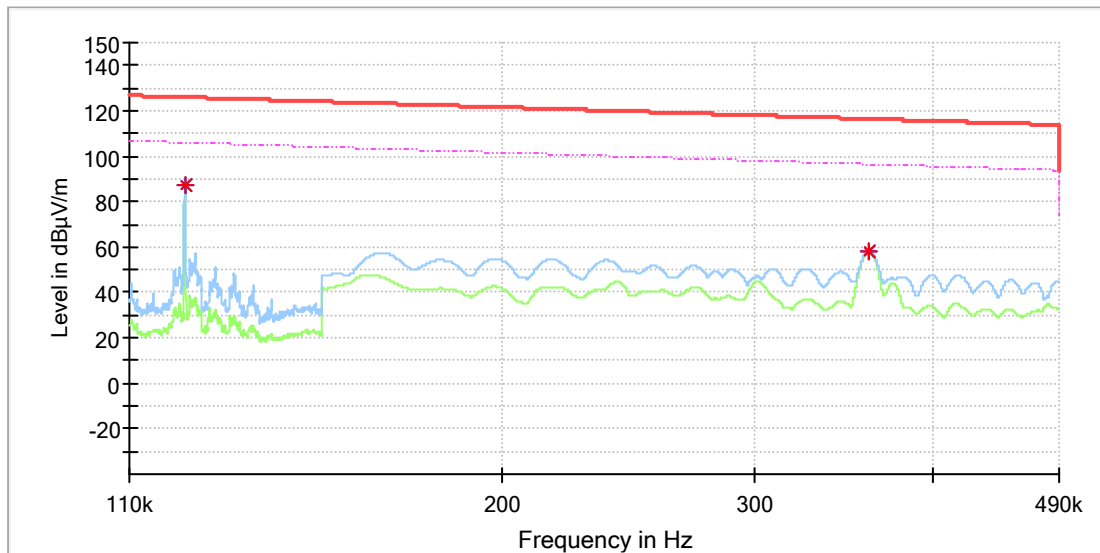


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.036887	42.17	---	136.25	94.09	100.0	X	338.0	20.0
0.036945	---	34.28	116.24	81.96	100.0	X	338.0	20.0
0.078602	47.15	---	129.69	82.53	100.0	X	358.0	20.0
0.078660	---	30.36	109.68	79.32	100.0	X	358.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

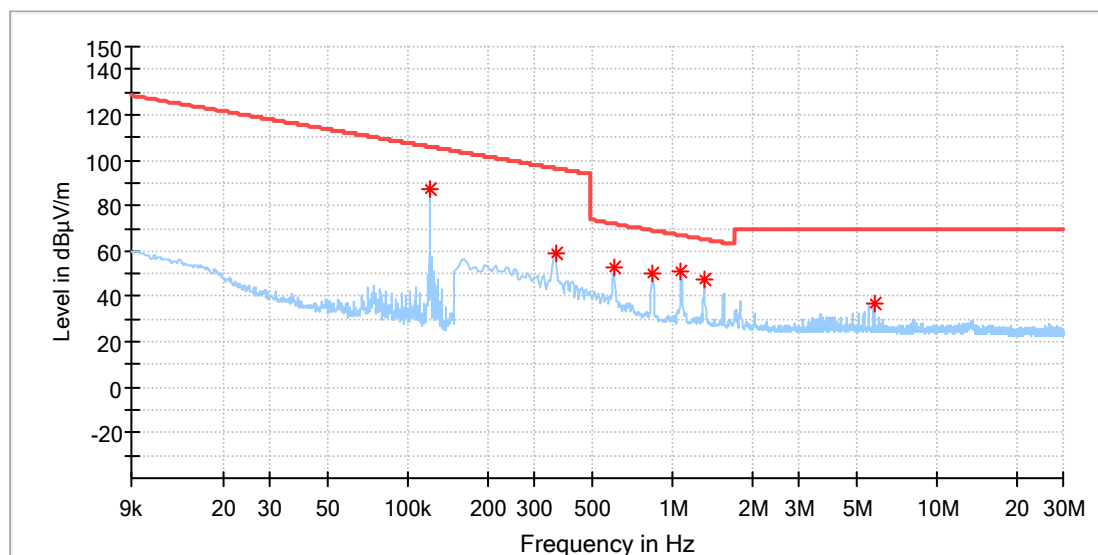


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.120286	87.48	---	125.99	38.52	100.0	X	0.0	20.0
0.120286	---	87.27	105.99	18.72	100.0	X	0.0	20.0
0.360900	58.45	---	116.46	58.01	100.0	X	50.0	20.0
0.360900	---	58.22	96.46	38.23	100.0	X	50.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

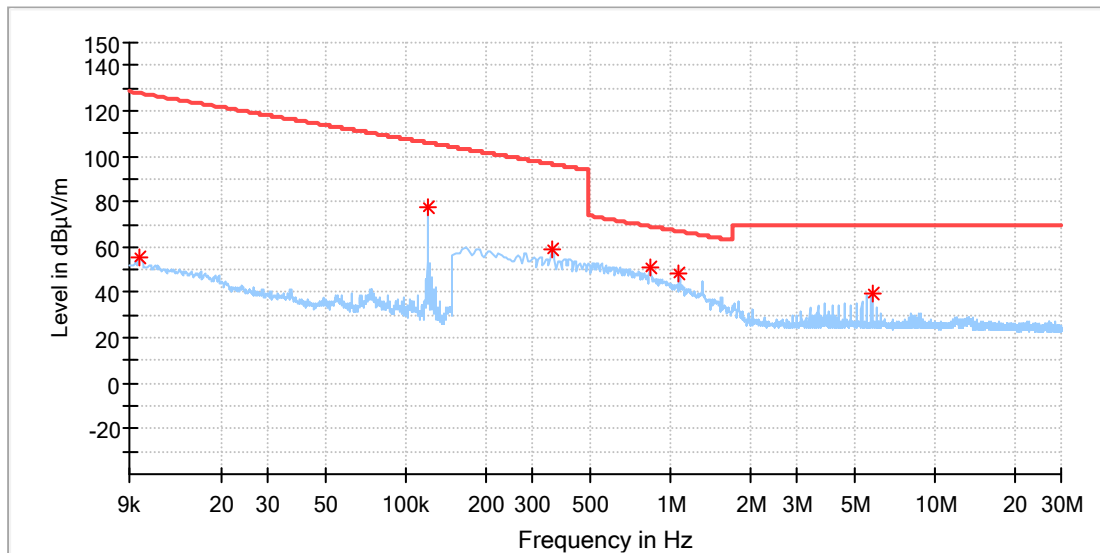
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.120289	87.26	105.99	18.74	100.0	X	351.0	19.9
0.360706	58.91	96.46	37.55	100.0	X	50.0	19.9
0.602140	52.45	72.02	19.57	100.0	X	72.0	19.9
0.839184	50.15	69.14	18.99	100.0	X	72.0	19.9
1.080618	51.17	66.95	15.78	100.0	X	79.0	19.9
1.322052	47.35	65.20	17.85	100.0	X	83.0	19.9
5.773213	36.60	69.50	32.90	100.0	X	320.0	20.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

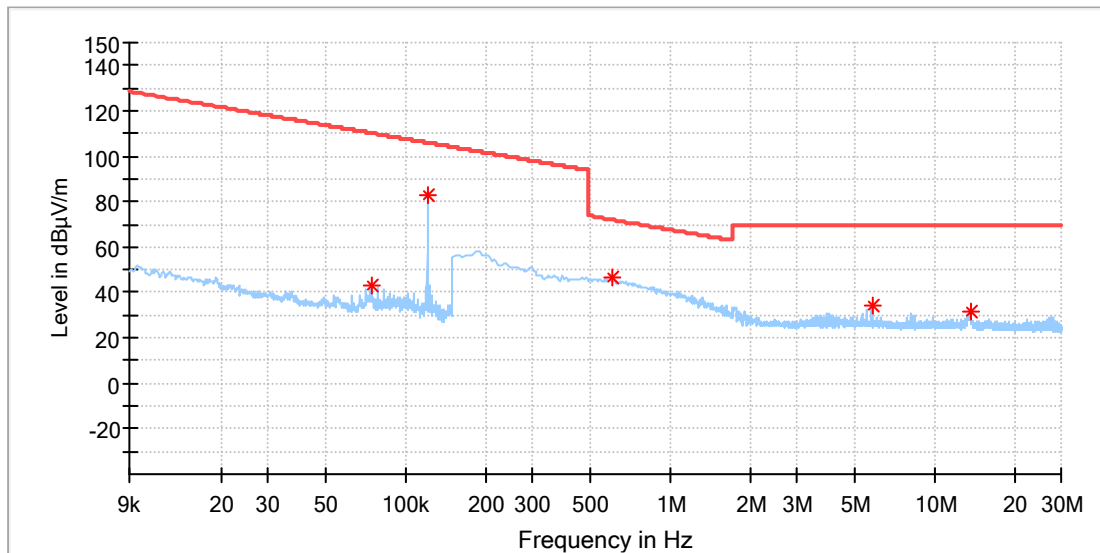
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.009806	55.43	127.76	72.33	100.0	Y	288.0	19.9
0.120289	77.66	105.99	28.33	100.0	Y	96.0	19.9
0.356316	58.71	96.57	37.86	100.0	Y	325.0	19.9
0.839184	51.08	69.14	18.06	100.0	Y	325.0	19.9
1.080618	48.04	66.95	18.91	100.0	Y	171.0	19.9
5.773213	39.34	69.50	30.16	100.0	Y	62.0	20.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

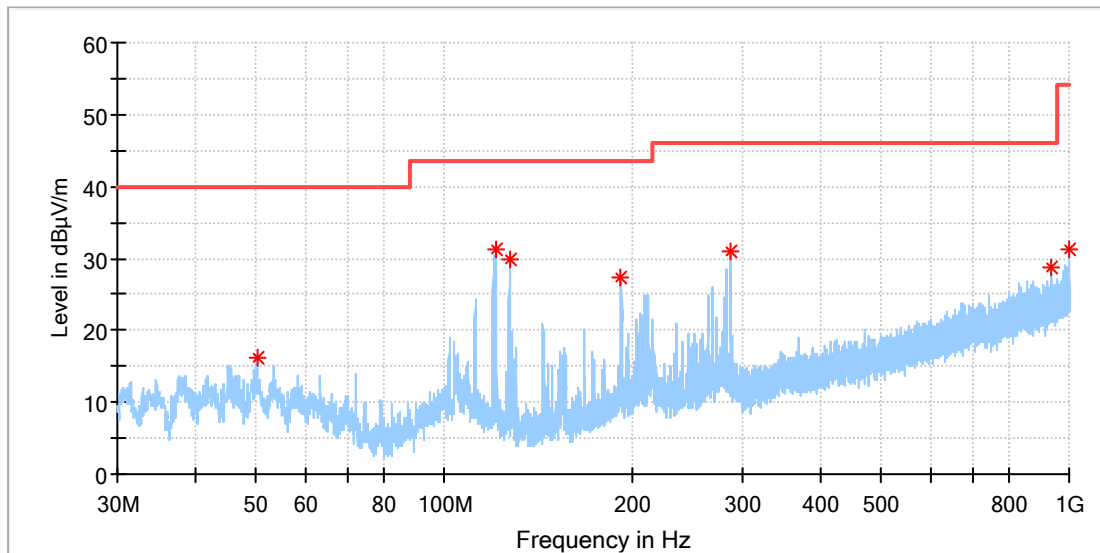
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.074565	43.46	110.14	66.69	100.0	Z	0.0	19.9
0.120289	83.04	105.99	22.95	100.0	Z	328.0	19.9
0.606530	46.49	71.95	25.46	100.0	Z	231.0	19.9
5.773213	33.88	69.50	35.62	100.0	Z	322.0	20.1
13.600059	31.59	69.50	37.91	100.0	Z	322.0	20.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

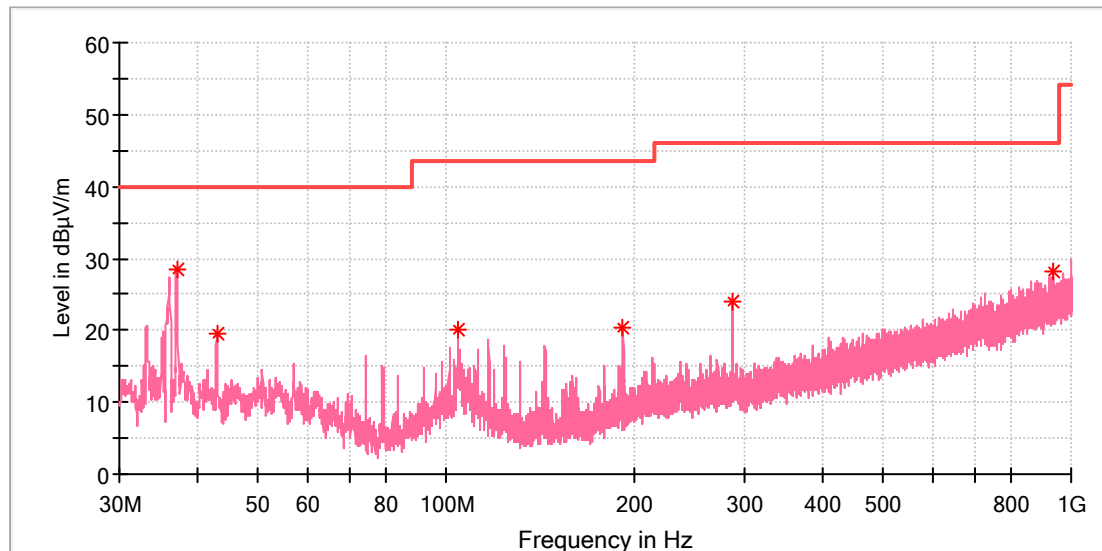
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.146154	16.24	40.00	23.76	100.0	H	191.0	-18.4
121.180000	31.32	43.50	12.18	100.0	H	276.0	-21.0
127.149231	29.88	43.50	13.62	100.0	H	253.0	-21.6
191.990000	27.35	43.50	16.15	100.0	H	276.0	-19.5
288.020000	30.87	46.00	15.13	100.0	H	285.0	-16.6
938.442308	28.79	46.00	17.21	100.0	H	292.0	-4.4
1000.000000	31.29	54.00	22.71	100.0	H	229.0	-3.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 120.3kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.088462	28.60	40.00	11.40	100.0	V	281.0	-21.2
42.983077	19.40	40.00	20.60	100.0	V	256.0	-19.4
104.279615	19.99	43.50	23.51	100.0	V	135.0	-18.9
192.027308	20.46	43.50	23.04	100.0	V	223.0	-19.5
288.020000	24.08	46.00	21.92	100.0	V	223.0	-16.6
938.442308	28.06	46.00	17.94	100.0	V	305.0	-4.4

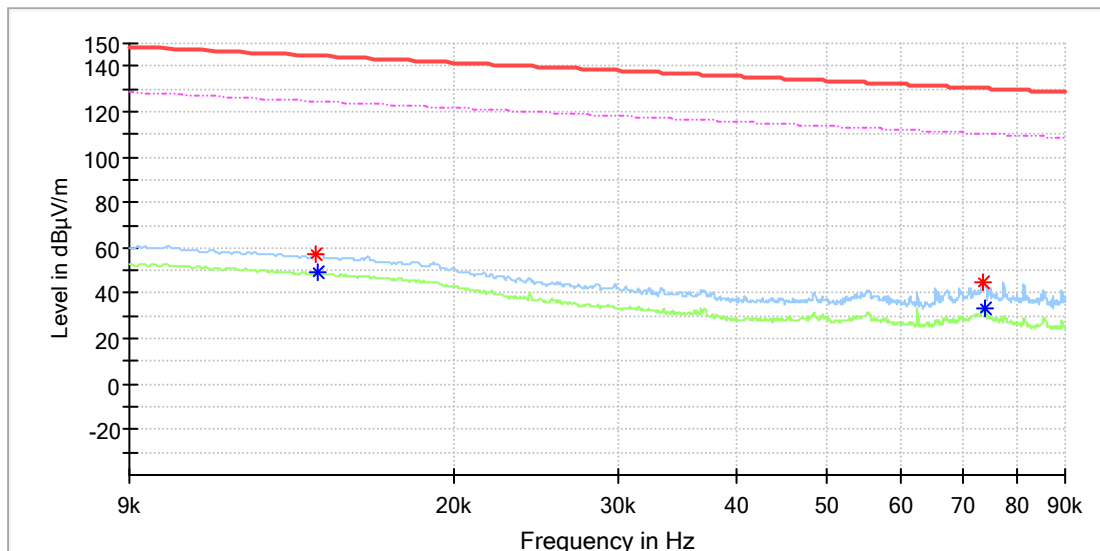
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Wireless charging, 127.0 kHz

EUT Information

EUT Name:	Cradle Mobile Wireless Charger
Model:	TWLC001
Test Mode:	127.0kHz
Order No/Sample No:	168505531/A003829057-001
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

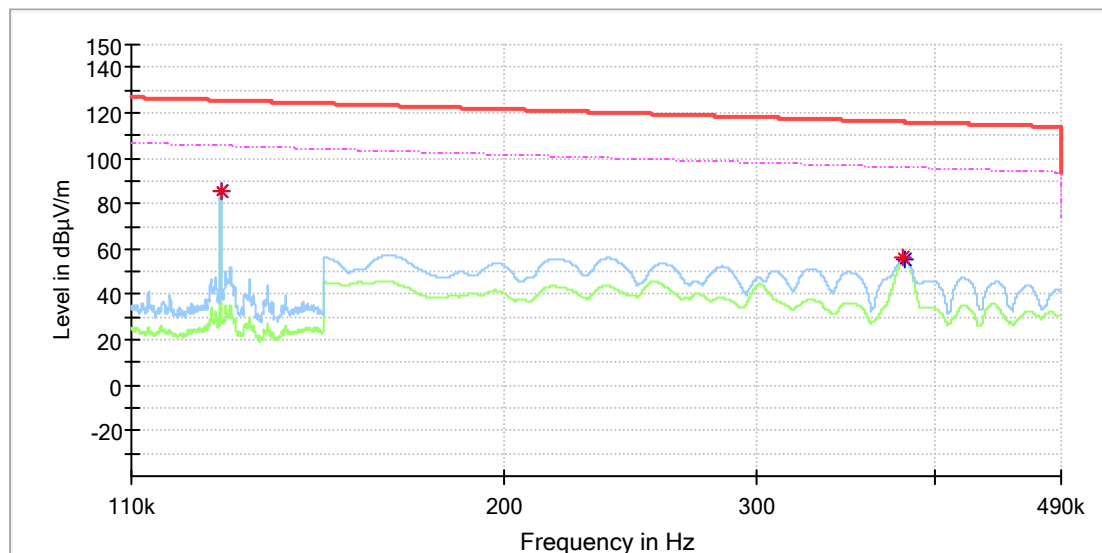


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.014265	57.26	---	144.50	87.24	100.0	X	306.0	20.0
0.014323	---	49.14	124.47	75.33	100.0	X	306.0	20.0
0.073395	44.81	---	130.28	85.47	100.0	X	345.0	20.0
0.073742	---	33.65	110.24	76.59	100.0	X	268.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

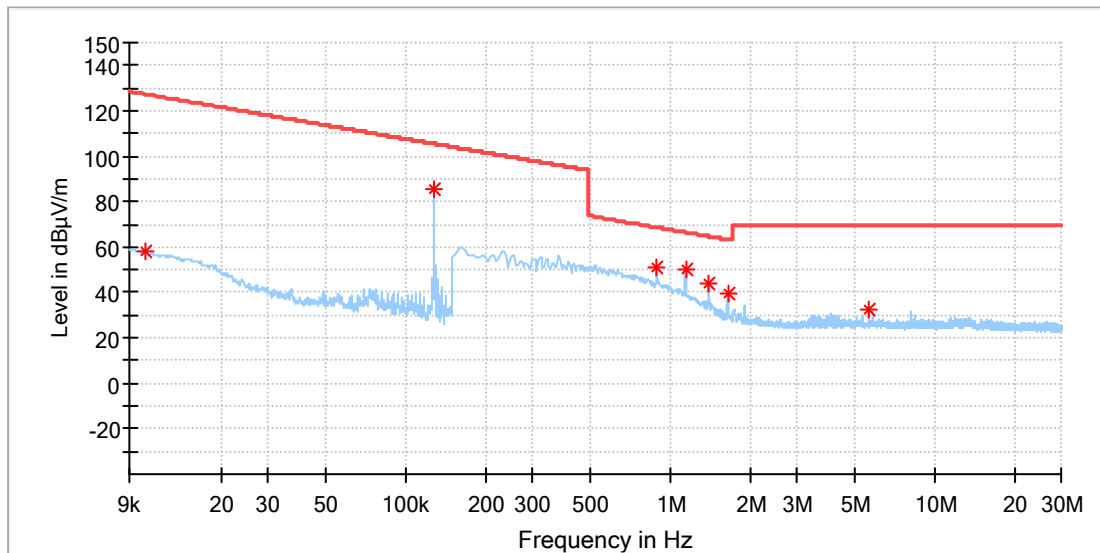


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.127000	85.28	---	125.52	40.24	100.0	X	320.0	20.0
0.127000	---	85.26	105.52	20.27	100.0	X	320.0	20.0
0.380500	55.96	---	116.00	60.04	100.0	X	42.0	20.0
0.381000	---	55.08	95.98	40.91	100.0	X	42.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

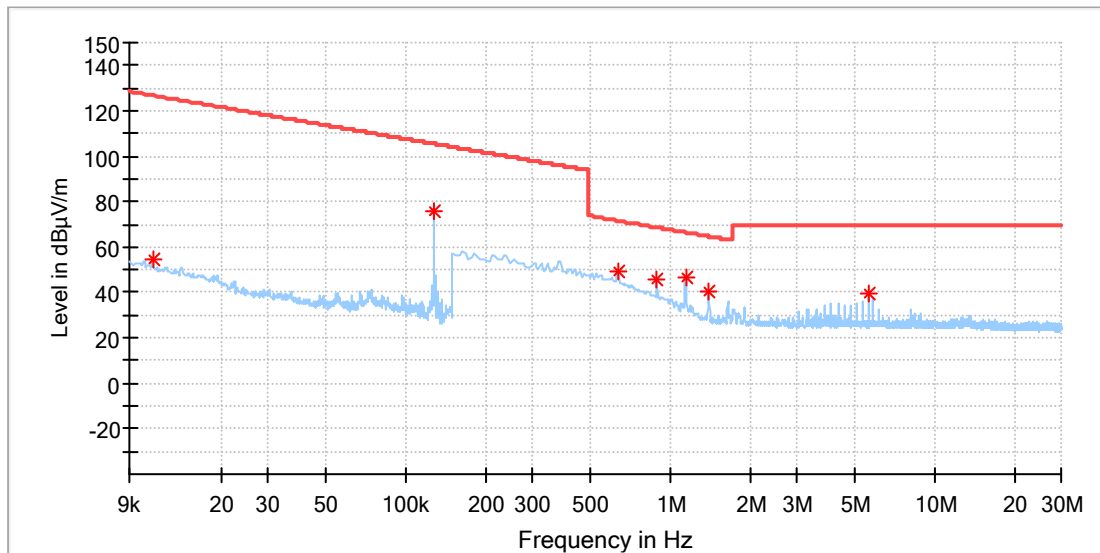
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.010410	58.44	127.24	68.79	100.0	X	310.0	19.9
0.127037	85.14	105.52	20.38	100.0	X	317.0	19.9
0.887471	51.15	68.66	17.51	100.0	X	87.0	19.9
1.142074	50.44	66.47	16.03	100.0	X	83.0	19.9
1.396677	43.57	64.73	21.15	100.0	X	249.0	19.9
1.646890	39.27	63.30	24.03	100.0	X	281.0	20.0
5.584456	32.36	69.50	37.14	100.0	X	108.0	20.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

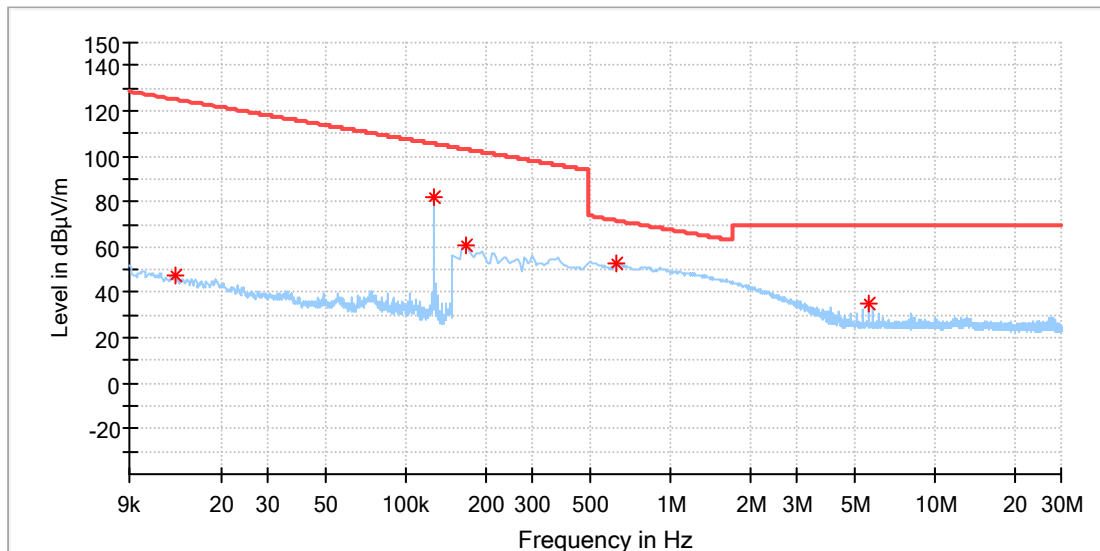
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.011014	54.21	126.75	72.54	100.0	Y	265.0	19.9
0.127037	76.06	105.52	29.46	100.0	Y	64.0	19.9
0.632868	49.23	71.58	22.35	100.0	Y	0.0	19.9
0.887471	45.81	68.66	22.84	100.0	Y	159.0	19.9
1.142074	47.02	66.47	19.46	100.0	Y	166.0	19.9
1.392287	40.02	64.76	24.74	100.0	Y	177.0	19.9
5.584456	39.30	69.50	30.20	100.0	Y	62.0	20.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

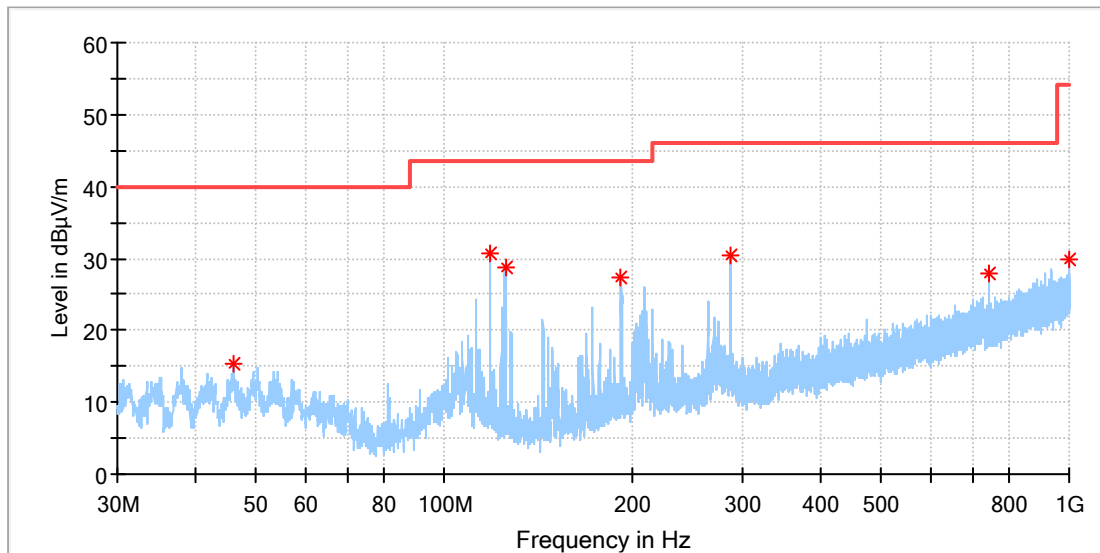
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.013431	47.85	125.02	77.17	100.0	Z	1.0	19.9
0.127037	82.00	105.52	23.52	100.0	Z	320.0	19.9
0.167559	60.35	103.12	42.77	100.0	Z	36.0	19.8
0.628478	52.72	71.64	18.93	100.0	Z	36.0	19.9
5.584456	35.29	69.50	34.21	100.0	Z	259.0	20.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

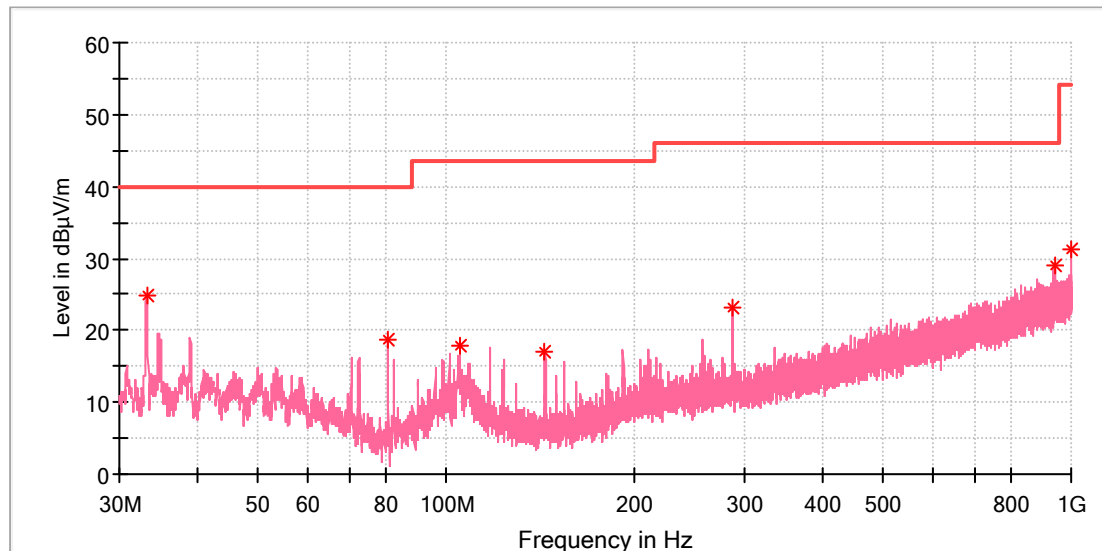
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.042308	15.25	40.00	24.75	100.0	H	351.0	-18.8
118.344615	30.72	43.50	12.78	100.0	H	280.0	-20.5
125.171923	28.77	43.50	14.73	100.0	H	108.0	-21.4
191.990000	27.21	43.50	16.29	100.0	H	264.0	-19.5
288.020000	30.50	46.00	15.50	100.0	H	280.0	-16.6
742.502308	27.95	46.00	18.05	100.0	H	198.0	-7.2
1000.000000	29.82	54.00	24.18	100.0	H	142.0	-3.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.0kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.208462	24.73	40.00	15.27	100.0	V	205.0	-22.5
80.775769	18.57	40.00	21.43	100.0	V	180.0	-23.4
105.249615	17.76	43.50	25.74	100.0	V	68.0	-18.9
144.012308	17.10	43.50	26.40	100.0	V	205.0	-22.4
288.020000	23.28	46.00	22.72	100.0	V	239.0	-16.6
941.091154	29.04	46.00	16.96	100.0	V	0.0	-4.4
1000.000000	31.32	54.00	22.68	100.0	V	334.0	-3.4

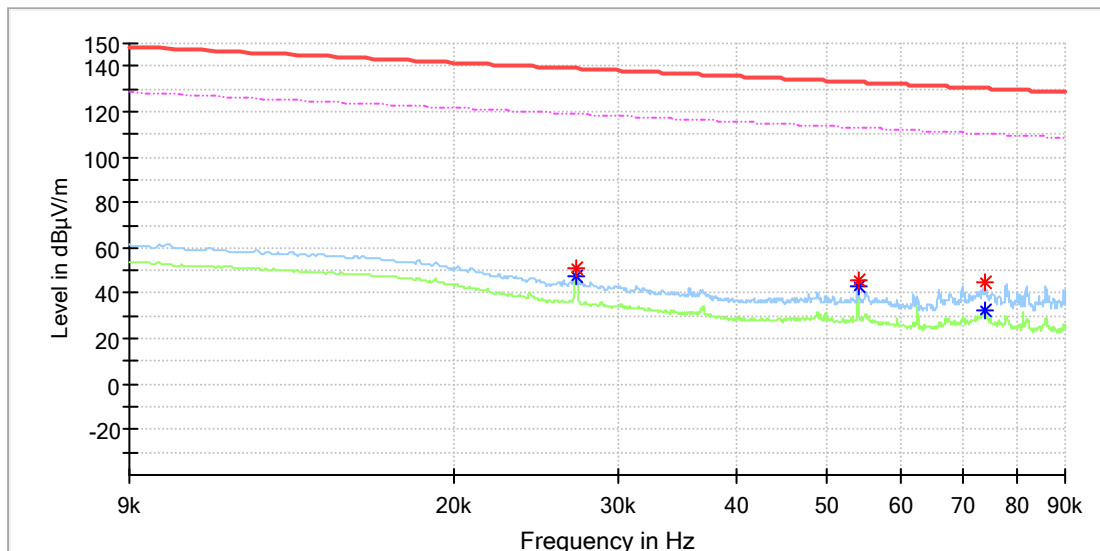
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Wireless charging, 127.5 kHz

EUT Information

EUT Name:	Cradle Mobile Wireless Charger
Model:	TWLC001
Test Mode:	127.5kHz
Order No/Sample No:	168505531/A003829057-001
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

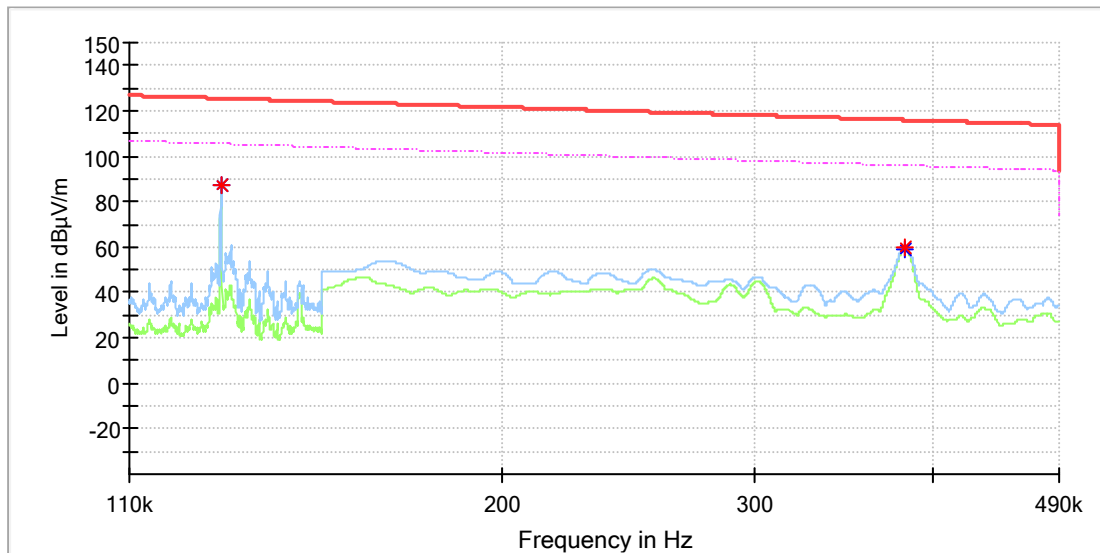


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.026994	51.32	---	138.97	87.64	100.0	X	330.0	20.0
0.026994	---	47.41	118.97	71.56	100.0	X	330.0	20.0
0.054071	45.69	---	132.93	87.24	100.0	X	146.0	20.0
0.054071	---	42.97	112.93	69.96	100.0	X	146.0	20.0
0.073916	44.97	---	130.22	85.25	100.0	X	359.0	20.0
0.073916	---	32.49	110.22	77.74	100.0	X	359.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

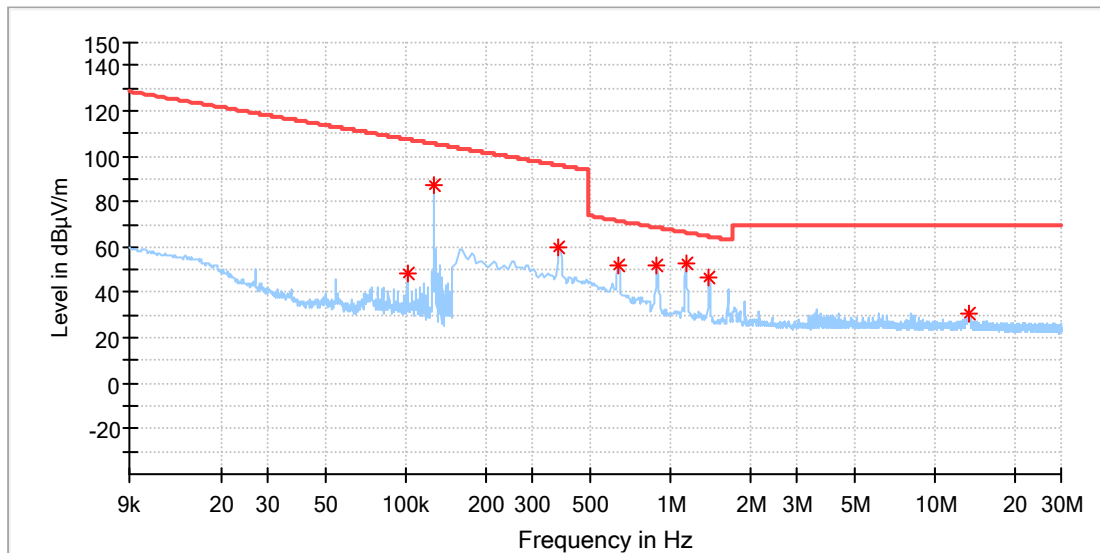


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.127486	87.45	---	125.49	38.04	100.0	X	0.0	20.0
0.127486	---	87.16	105.49	18.33	100.0	X	0.0	20.0
0.382450	---	58.87	95.95	37.08	100.0	X	44.0	20.0
0.382550	59.62	---	115.95	56.33	100.0	X	44.0	20.0

EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

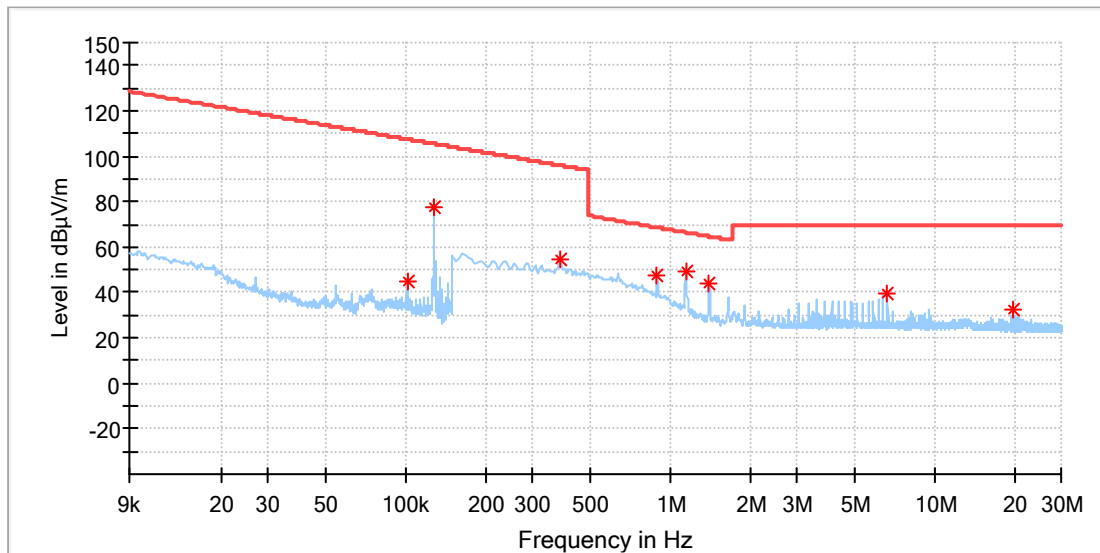
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.100952	48.81	107.51	58.70	100.0	X	295.0	19.9
0.127541	87.00	105.49	18.48	100.0	X	354.0	19.9
0.378265	59.52	96.05	36.52	100.0	X	53.0	19.9
0.637258	51.94	71.52	19.59	100.0	X	84.0	19.9
0.891860	51.61	68.61	17.00	100.0	X	80.0	19.9
1.146463	52.61	66.44	13.82	100.0	X	84.0	19.9
1.401066	46.85	64.70	17.85	100.0	X	269.0	19.9
13.538603	30.39	69.50	39.11	100.0	X	225.0	20.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

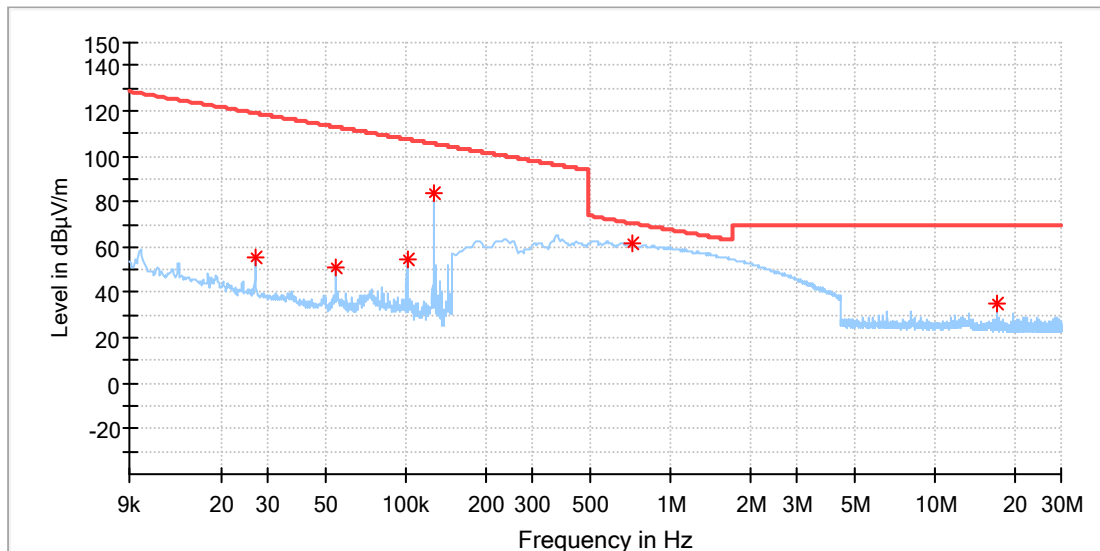
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.100952	45.00	107.51	62.51	100.0	Y	68.0	19.9
0.127541	77.85	105.49	27.63	100.0	Y	110.0	19.9
0.382655	54.75	95.95	41.20	100.0	Y	147.0	19.9
0.891860	47.67	68.61	20.94	100.0	Y	164.0	19.9
1.146463	49.10	66.44	17.34	100.0	Y	171.0	19.9
1.401066	43.82	64.70	20.88	100.0	Y	171.0	19.9
6.629206	39.56	69.50	29.94	100.0	Y	315.0	20.1
19.635904	32.69	69.50	36.81	100.0	Y	260.0	20.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

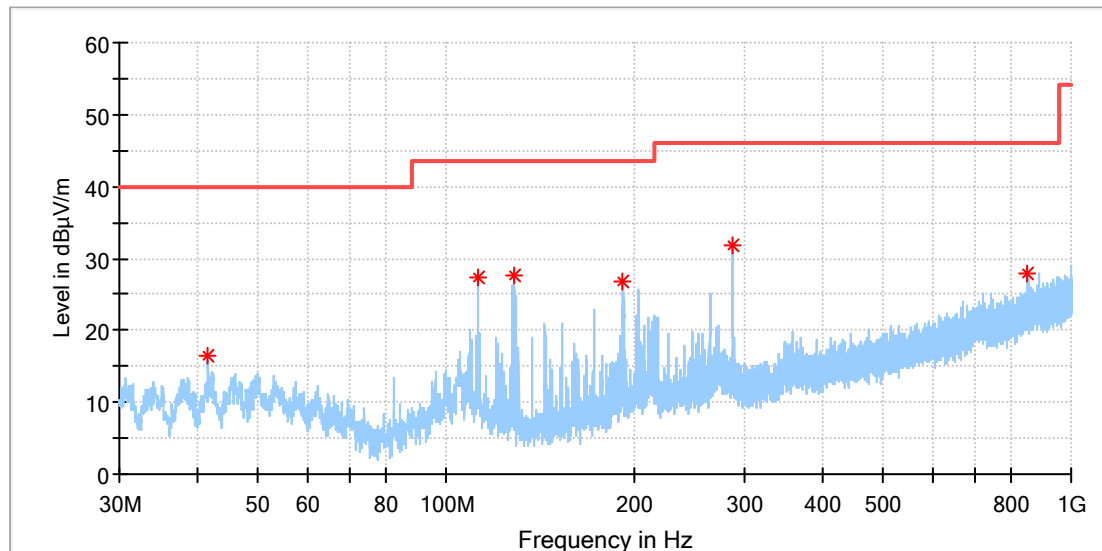
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027028	55.27	118.95	63.68	100.0	Z	345.0	19.9
0.054019	51.16	112.94	61.78	100.0	Z	314.0	19.9
0.100952	54.97	107.51	52.55	100.0	Z	349.0	19.9
0.127541	83.47	105.49	22.01	100.0	Z	0.0	19.9
0.716272	61.48	70.51	9.03	100.0	Z	124.0	19.9
17.085485	35.32	69.50	34.18	100.0	Z	8.0	20.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

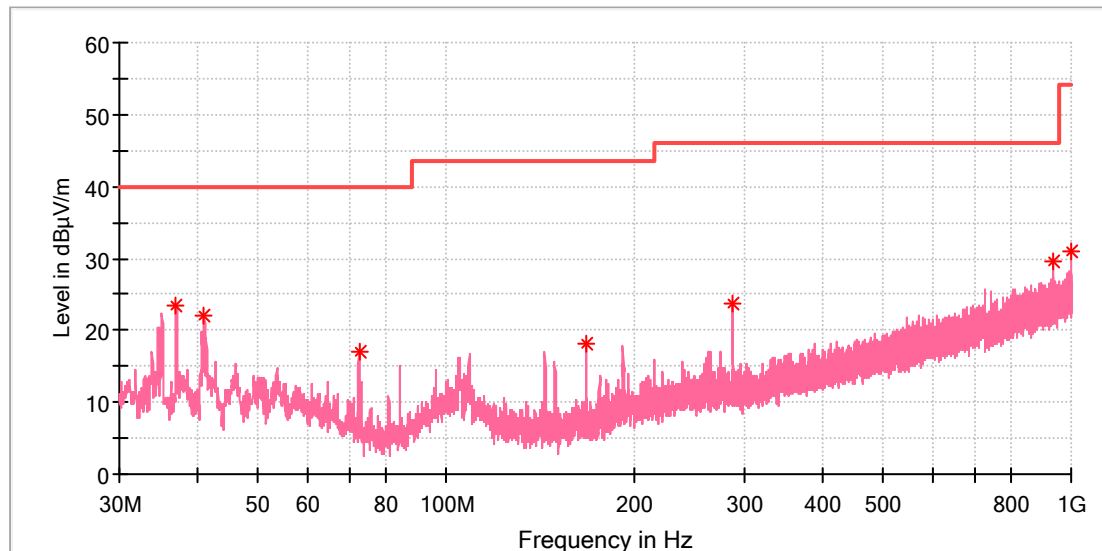
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.565385	16.40	40.00	23.60	100.0	H	250.0	-19.8
112.300769	27.47	43.50	16.03	100.0	H	266.0	-19.5
128.828077	27.60	43.50	15.90	100.0	H	241.0	-21.8
192.027308	26.67	43.50	16.83	100.0	H	282.0	-19.5
288.020000	31.76	46.00	14.24	100.0	H	273.0	-16.6
853.231539	27.90	46.00	18.10	100.0	H	153.0	-5.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: 127.5kHz
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.013846	23.35	40.00	16.65	100.0	V	221.0	-21.2
41.005769	22.10	40.00	17.90	100.0	V	59.0	-19.9
72.530769	17.15	40.00	22.85	100.0	V	157.0	-22.7
167.366923	18.22	43.50	25.28	100.0	V	205.0	-21.4
288.020000	23.66	46.00	22.34	100.0	V	221.0	-16.6
938.442308	29.67	46.00	16.33	100.0	V	329.0	-4.4
1000.000000	30.90	54.00	23.10	100.0	V	312.0	-3.4

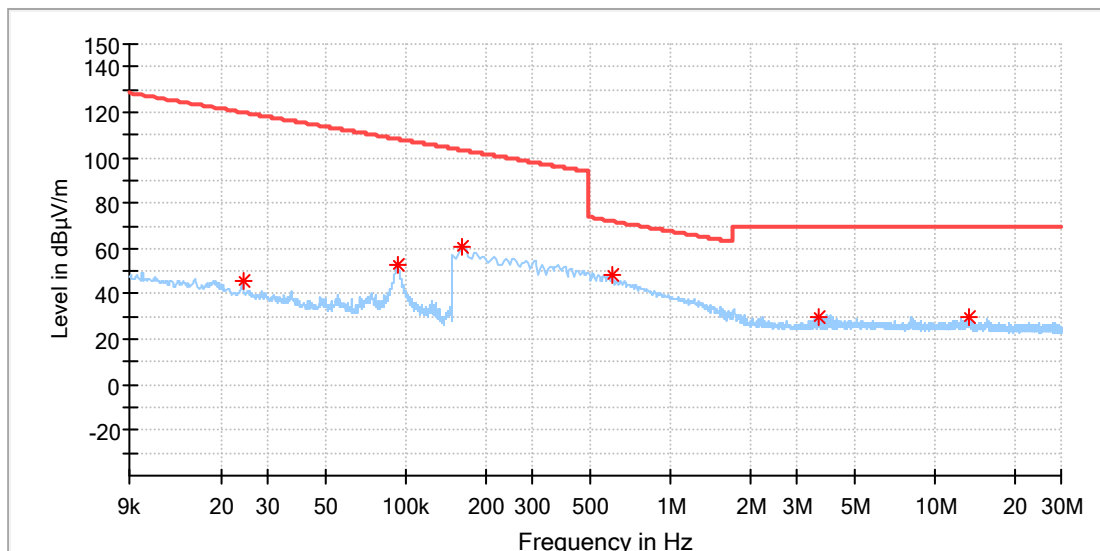
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Standby mode

EUT Information

EUT Name:	Cradle Mobile Wireless Charger
Model:	TWLC001
Test Mode:	standby
Order No/Sample No:	168505531/A003829057-001
Test Voltage:	DC 12V From DC Source
Remark:	Temp 23 Humi:53%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

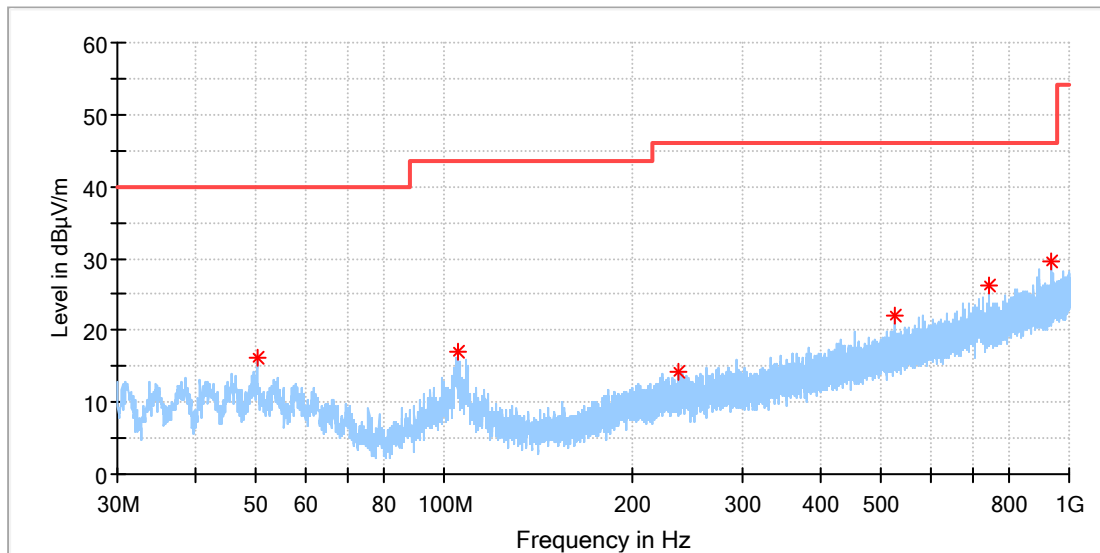
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.024208	45.81	119.91	74.10	100.0	X	246.0	19.9
0.092794	52.82	108.25	55.42	100.0	X	253.0	19.9
0.163169	60.87	103.35	42.48	100.0	X	70.0	19.9
0.602140	48.28	72.02	23.74	100.0	X	167.0	19.9
3.626647	30.14	69.50	39.36	100.0	X	333.0	20.1
13.503485	29.66	69.50	39.84	100.0	X	333.0	20.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: standby
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

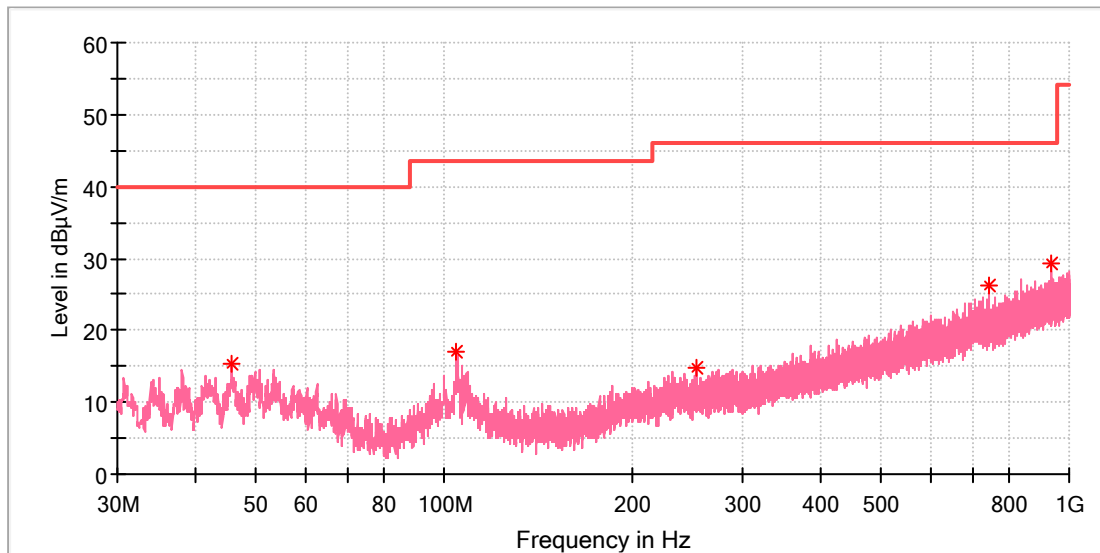
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.183462	16.11	40.00	23.89	100.0	H	130.0	-18.4
105.286923	17.09	43.50	26.41	100.0	H	246.0	-18.9
236.871154	14.25	46.00	31.75	100.0	H	1.0	-17.9
525.446154	22.09	46.00	23.91	100.0	H	0.0	-11.3
742.502308	26.34	46.00	19.66	100.0	H	303.0	-7.2
936.950000	29.69	46.00	16.31	100.0	H	279.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Cradle Mobile Wireless Charger
Model: TWLC001
Test Mode: standby
Order No/Sample No: 168505531/A003829057-001
Test Voltage: DC 12V From DC Source
Remark: Temp 23 Humi:53%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.631923	15.24	40.00	24.76	100.0	V	313.0	-18.8
104.764615	16.93	43.50	26.57	100.0	V	256.0	-18.9
252.615000	14.83	46.00	31.17	100.0	V	165.0	-17.3
742.465000	26.33	46.00	19.67	100.0	V	90.0	-7.2
936.950000	29.24	46.00	16.76	100.0	V	313.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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