



<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN222L5Y 001</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>168378467</b>	<b>Seite 1 von 25</b> <i>Page 1 of 25</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2022-06-21	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Gopod Group Limited.</b> 6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	3-in-1 Wireless Charger with MagSafe			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	NS-MM531S23, NS-MM531xxxxxxx, BE-MM531xxxxxxx ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Type test			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2022-06-23	Refer to photos document		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003283661-001			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2022-07-01 – 2022-07-06			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i>		<b>genehmigt von:</b> <i>authorized by:</i>		
<b>Datum:</b> <i>Date:</i> 2022-08-31	Signed by: Alex Lan	<b>Ausstellungsdatum:</b> <i>Issue date:</i> 2022-09-02	Signed by: Winnie Hou	
<b>Stellung / Position</b>	Assistant Project Manager	<b>Stellung / Position</b>	Department Manager	
<b>Sonstiges / Other:</b>	FCC ID: 2AQZH-MM531S23			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n) Legend: 1 = very good P(ass) = passed a.m. test specifications(s)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 2 = good F(ail) = failed a.m. test specifications(s)	3 = befriedigend 3 = satisfactory	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
<b>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.</b> <i>This test report only relates to the a. m. 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>				

## **Test Summary**

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 99% BANDWIDTH**

*RESULT: Pass*

**5.1.3 20dB BANDWIDTH**

*RESULT: Pass*

**5.1.4 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**5.1.5 CONDUCTED EMISSION ON AC MAINS**

*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: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Testing</b>				
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
<b>Unwanted Emission Testing</b>				
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Conducted Emission				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

## 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

Parameter	Uncertainty
Radiated Emission, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	±3.70 dB / ±3.30 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A 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 Huangguan Road Middle, Longhua District, Shenzhen 518110, 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 EUTs are a **3-in-1 Wireless Charger with MagSafe** which supports wireless charging function.

All models are identical except the model number or color for different market purpose.

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

### 3.2 Ratings and System Details

**Table 2: Technical Specification of EUT**

General Information of EUT	Value
Kind of Equipment	3-in-1 MagSafe Wireless Charger Stand
Type Designation	NS-MM531S23, NS-MM531xxxxxxx, BE-MM531xxxxxxx ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)
FCC ID	2AQZH-MM531S23
Operating Voltage	AC 100-240V, 50/60Hz via AC/DC Adapter
Testing Voltage	AC 120V, 60Hz
AC/DC Adapter	Model: DCT36W120300US-Y0 Input: AC 100-240V, 50/60Hz, 1.0A Output: DC 12V, 3A
Technical Specification of WPT	
Operating Frequency	111-205KHz for Qi 360KHz for apple magsafe
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	2
Wireless Charger output power	5W for Qi 15W for apple magsafe
Technical Specification of Apple watch	
Operating Frequency	326.5KHz
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	1
Wireless Charger output power	5W

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging (WPT)
  - 1. 15W
  - 3. 5W
- B. On, Apple watch (5W)
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- FCC/IC Label and Location Info
- Application Form
- Instruction Manual
- 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.

According to clause 3.1, all test were applied on model **NS-MM531S23**.

### 4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Remark
Dummy Load	YBZ	N/A	N/A	Supply by Lab
Mobile Phone	Apple	N/A	N/A	Supply by Lab
Earphone	Apple	N/A	N/A	Supply by Client
Watch	Apple	N/A	N/A	Supply by Client

### 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)

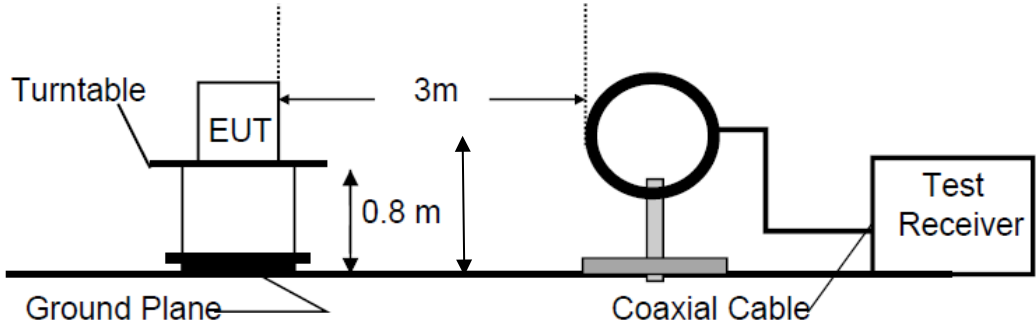


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

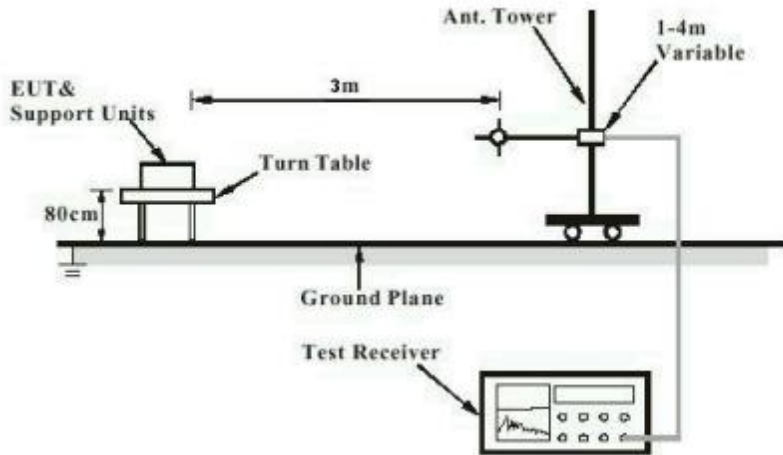
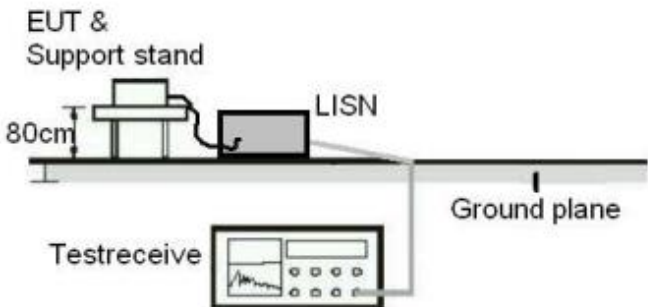


Diagram of Measurement Configuration for Mains Conduction Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : Part 15.203

According to the manufacturer declared, the EUT has three 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.

### 5.1.2 99% Bandwidth

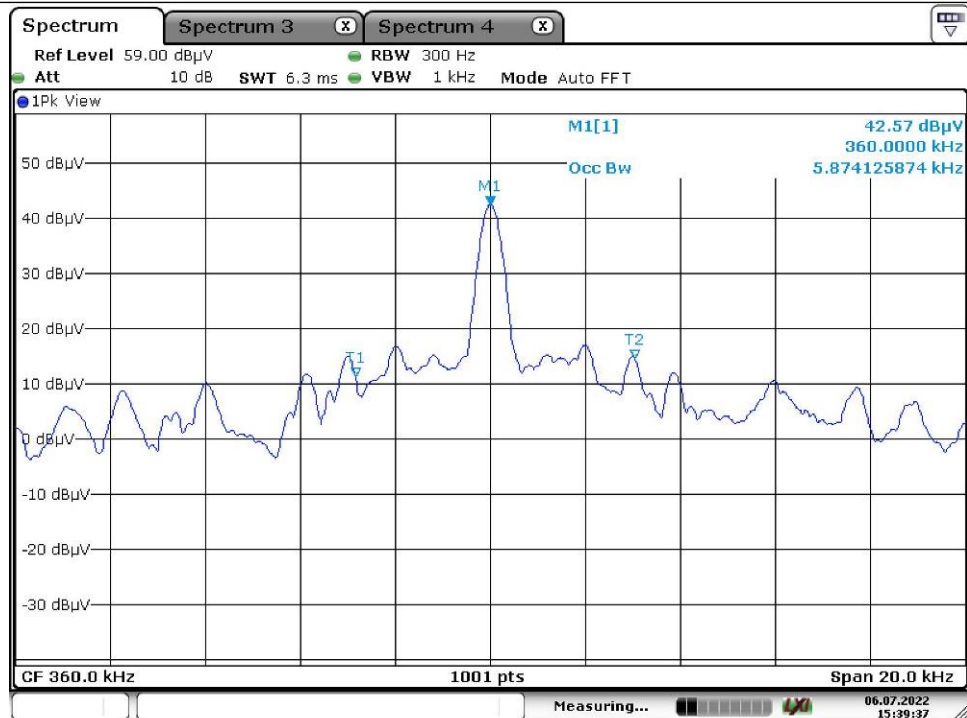
**RESULT:**
**Pass**
**Test Specification**

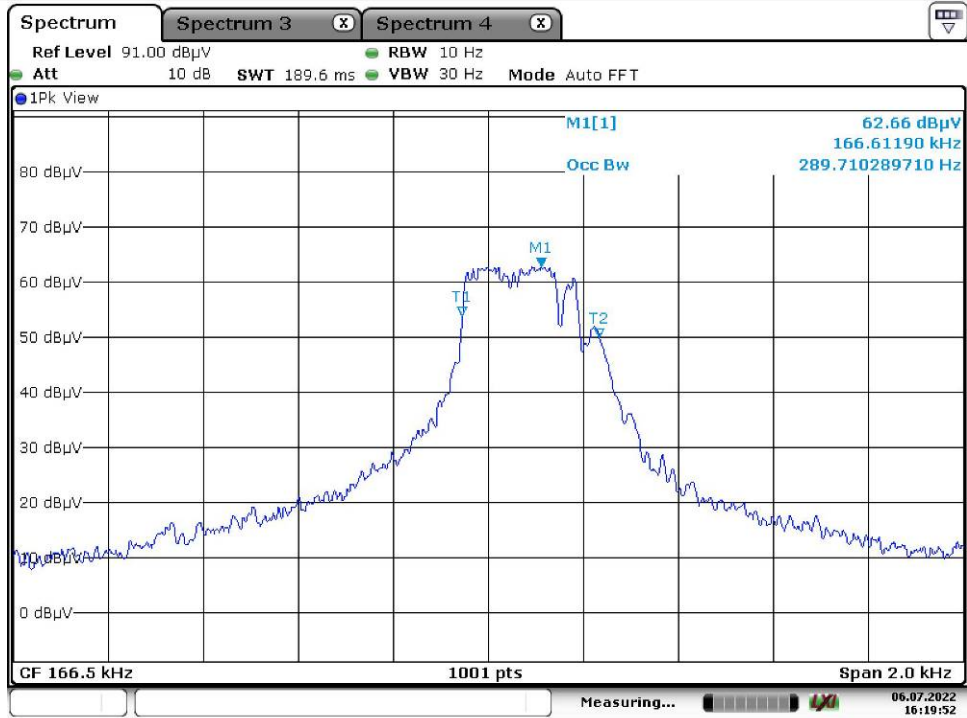
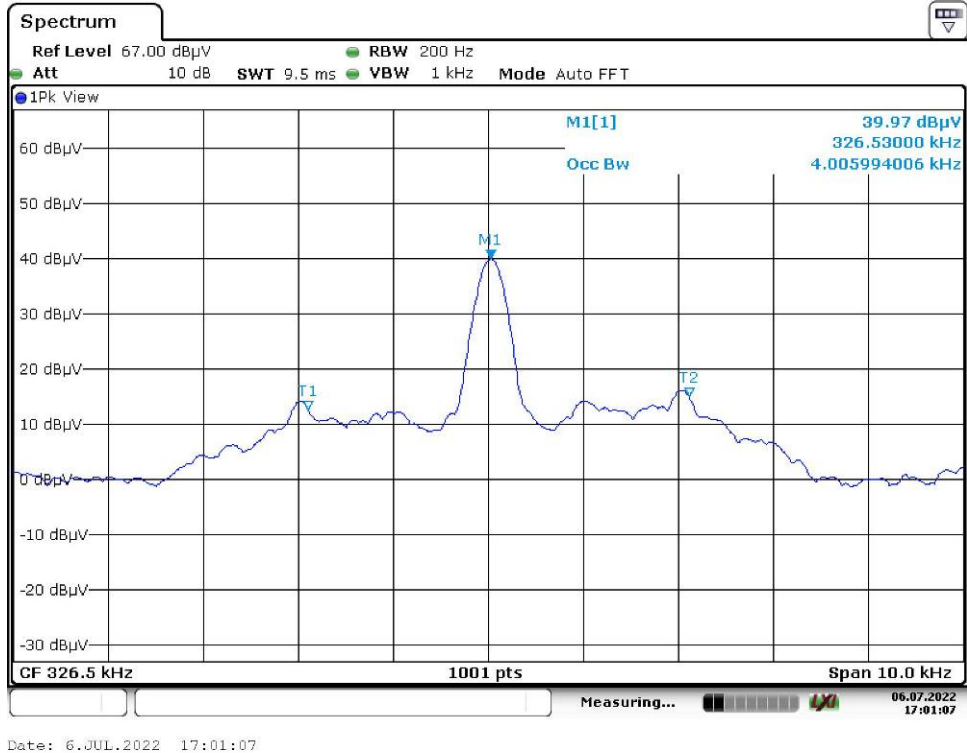
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

 Date of testing : 2022-07-06  
 Input voltage : AC 120V, 60Hz  
 Operation mode : A, B  
 Ambient temperature : 24.1 °C  
 Relative humidity : 52 %  
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.

 For WPT  
 15W


For WPT  
 5W

 For Apple  
 Watch  
 5W


### 5.1.3 20dB Bandwidth

**RESULT:** **Pass**

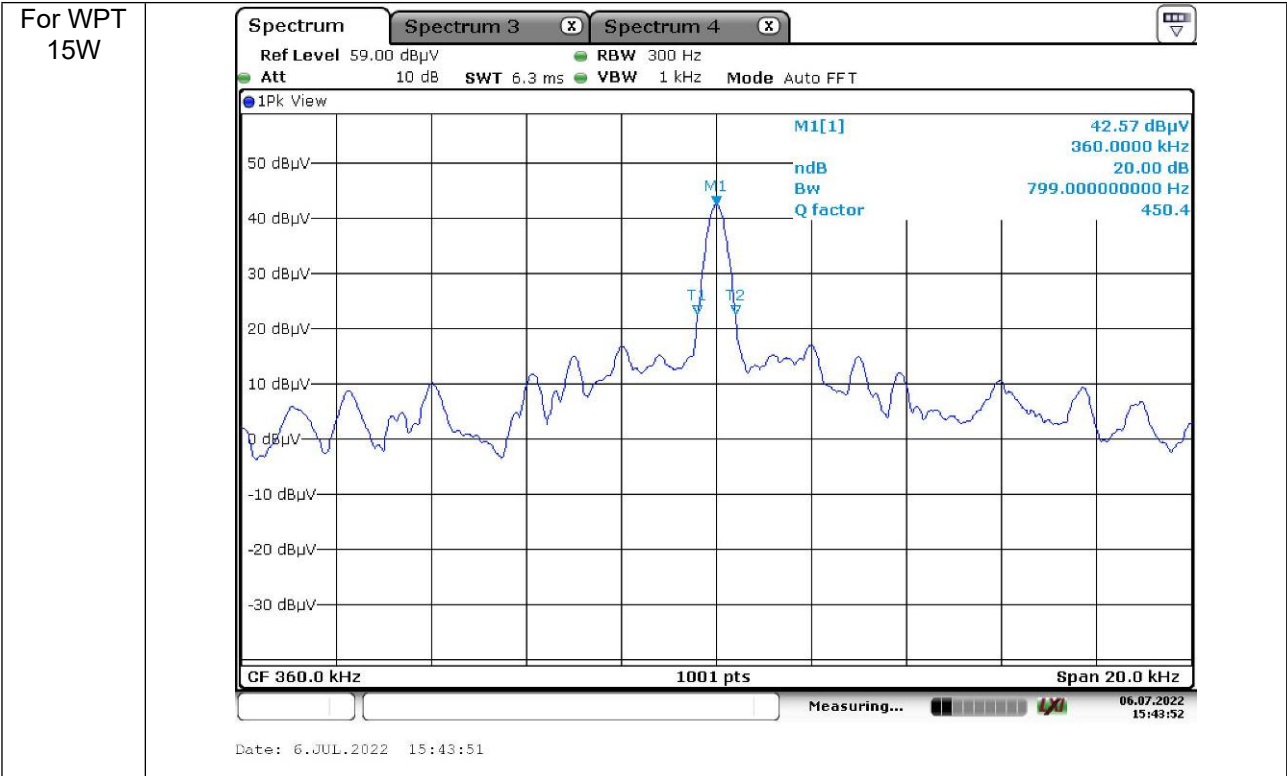
**Test Specification**

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

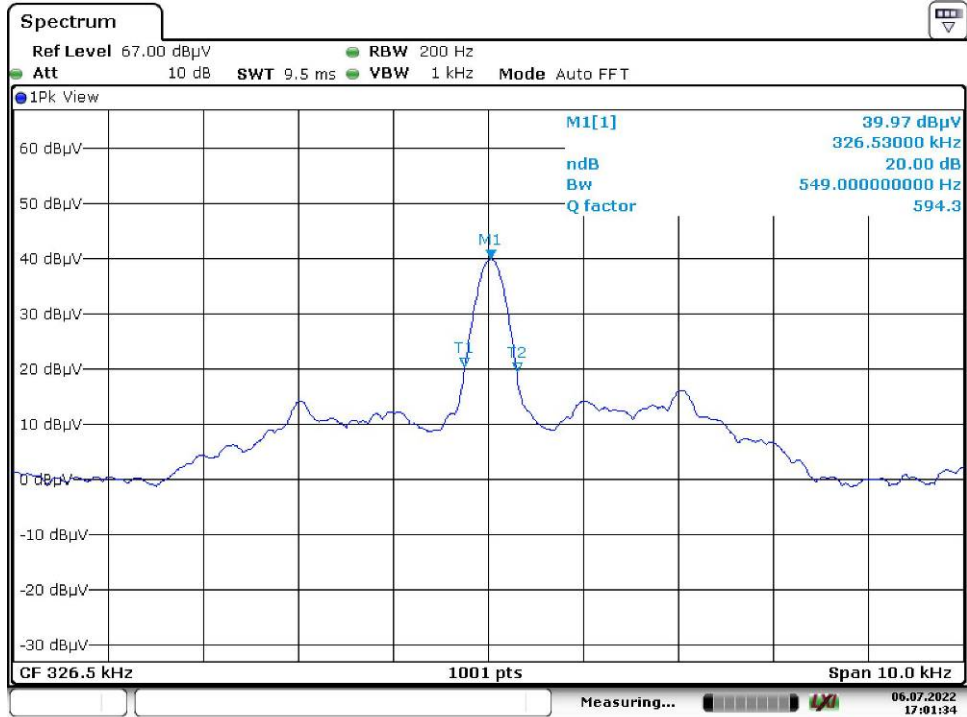
**Test Setup**

Date of testing : 2022-07-06  
 Input voltage : AC 120V, 60Hz  
 Operation mode : A, B  
 Ambient temperature : 24.1 °C  
 Relative humidity : 52 %  
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.



For WPT  
 5W

 For Apple  
 Watch  
 5W


## 5.1.4 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	: 2022-07-05
Input voltage	: AC 120V, 60Hz
Operation mode	: A+B
Ambient temperature	: 23 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

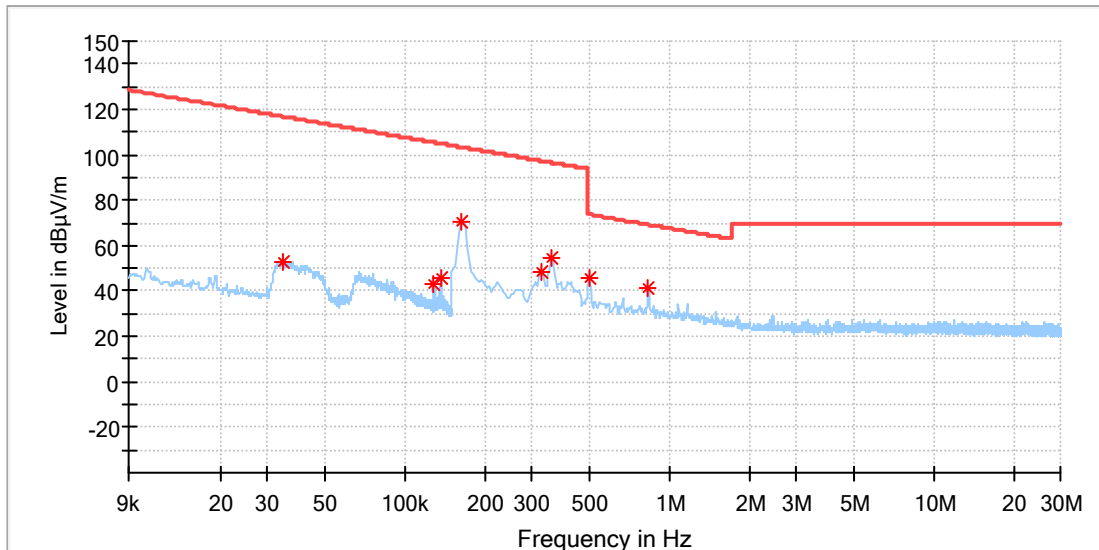
This testing was carried out on all operation modes, but only the worst case was presented in this report.

Refer to following test plots for details of test result.



## EUT Information

EUT Name:	3-in-1 Wireless Charger with MagSafe
Model:	NS-MM531S23
Test Mode:	A+B
Order No/Sample No:	168378467/A003283661-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

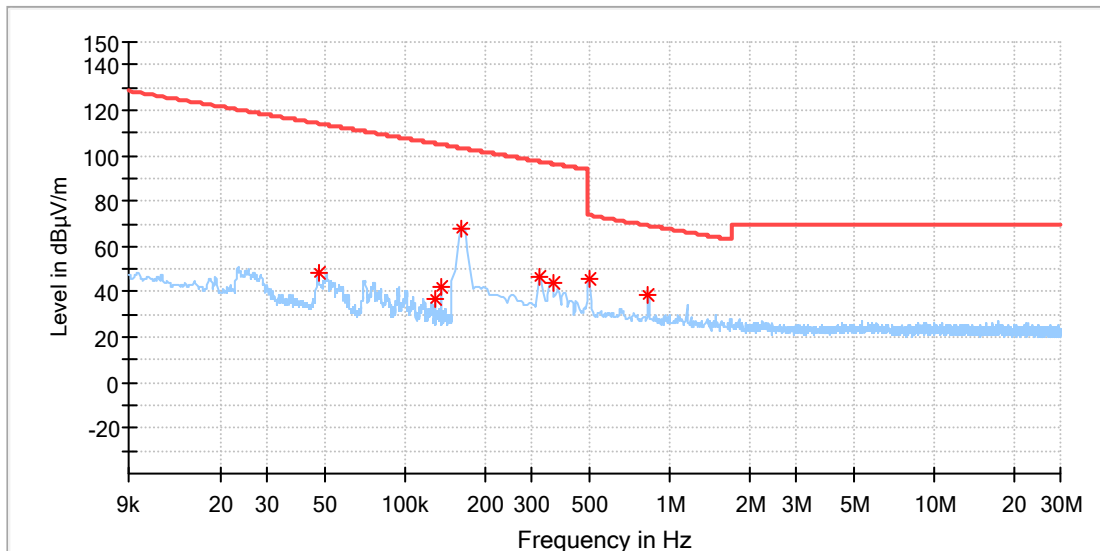


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.034380	53.10	116.87	63.76	100.0	X	269.0	20.1
0.128447	42.75	105.42	62.67	100.0	X	301.0	20.1
0.135799	45.73	104.94	59.21	100.0	X	45.0	20.1
0.163169	70.17	103.35	33.18	100.0	X	0.0	20.1
0.325588	48.70	97.35	48.65	100.0	X	327.0	20.1
0.356316	54.26	96.57	42.31	100.0	X	91.0	20.1
0.496787	46.04	73.68	27.64	100.0	X	195.0	20.1
0.830405	41.25	69.23	27.98	100.0	X	5.0	20.1

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Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

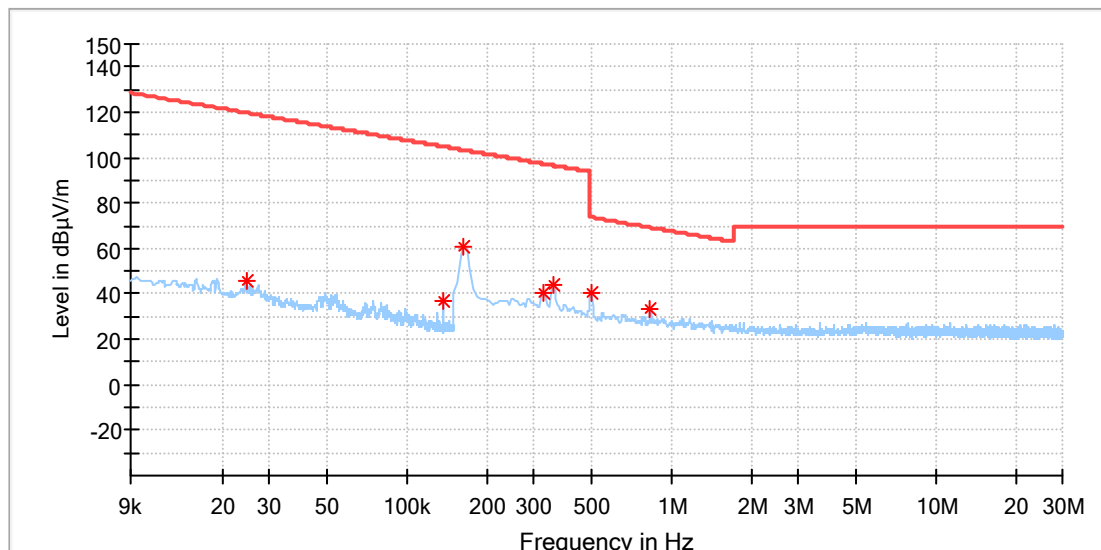


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.047070	48.40	114.14	65.73	100.0	Y	0.0	20.1
0.129555	37.18	105.35	68.17	100.0	Y	22.0	20.1
0.136907	42.09	104.87	62.77	100.0	Y	123.0	20.1
0.163169	68.09	103.35	35.26	100.0	Y	236.0	20.1
0.321199	46.52	97.47	50.94	100.0	Y	6.0	20.1
0.360706	44.08	96.46	52.38	100.0	Y	3.0	20.1
0.496787	45.46	73.68	28.23	100.0	Y	226.0	20.1
0.830405	38.55	69.23	30.68	100.0	Y	77.0	20.1

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Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

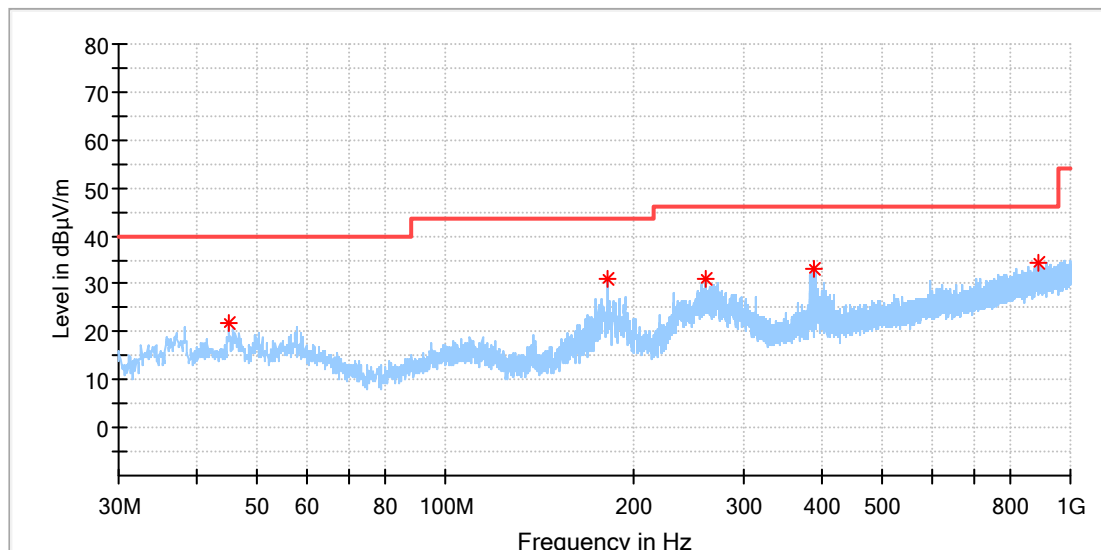


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.024711	45.46	119.73	74.27	100.0	Z	289.0	20.1
0.136706	36.92	104.88	67.96	100.0	Z	47.0	20.1
0.163169	60.87	103.35	42.47	100.0	Z	341.0	20.1
0.325588	40.50	97.35	56.85	100.0	Z	317.0	20.1
0.356316	44.27	96.57	52.29	100.0	Z	133.0	20.1
0.496787	40.21	73.68	33.47	100.0	Z	119.0	20.1
0.830405	33.45	69.23	35.78	100.0	Z	159.0	20.1

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Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

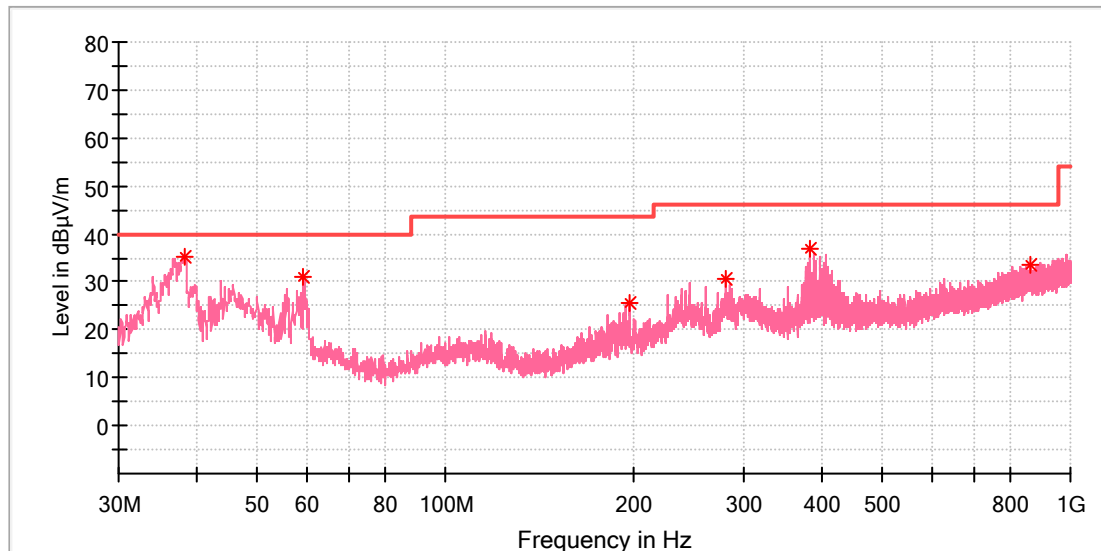


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.035000	21.63	40.00	18.37	100.0	H	165.0	-18.8
181.853500	31.08	43.50	12.42	100.0	H	265.0	-20.4
261.733000	31.23	46.00	14.77	100.0	H	55.0	-17.1
389.918500	33.31	46.00	12.69	100.0	H	99.0	-13.9
887.674000	34.51	46.00	11.49	100.0	H	220.0	-5.1

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EUT Name:	3-in-1 Wireless Charger with MagSafe
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Order No/Sample No:	168378467/A003283661-001
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:56%
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)
38.196500	35.29	40.00	4.71	100.0	V	38.0	-20.7
59.342500	31.17	40.00	8.83	100.0	V	238.0	-18.9
196.840000	25.63	43.50	17.87	100.0	V	113.0	-19.1
279.969000	30.52	46.00	15.48	100.0	V	128.0	-16.7
382.546500	36.92	46.00	9.08	100.0	V	0.0	-14.2
862.842000	33.66	46.00	12.34	100.0	V	202.0	-5.3

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### 5.1.5 Conducted Emission on AC Mains

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.207  
Basic standard : ANSI C63.10: 2013  
Frequency range : 150KHz - 30MHz  
Limits : FCC Part 15.207(a)  
Kind of test site : Shielded Room

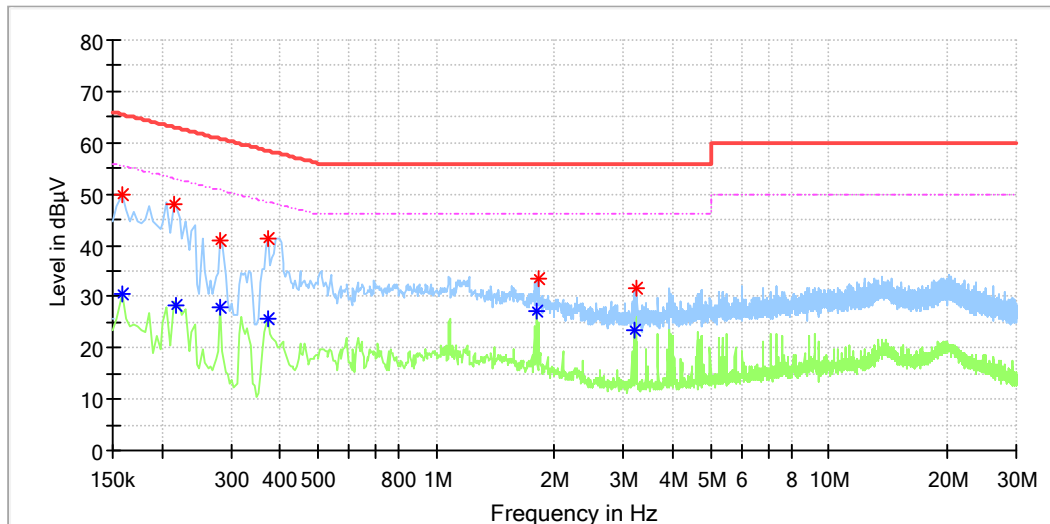
**Test Setup**

Date of testing : 2022-07-01  
Input voltage : AC 120V, 60Hz  
Operation mode : A+B  
Earthing : Not connected  
Ambient temperature : 24.5 °C  
Relative humidity : 52.6 %  
Atmospheric pressure : 101 kPa

This testing was carried out on all operation modes, but only the worst case was presented in this report.  
Refer to following test plots for details of test result.

## EUT Information

EUT Name:	3-in-1 Wireless Charger with MagSafe
Order No:	168378467_P00731114
Model:	NS-MM531S23
Test mode:	A+B
Test Voltage:	AC 120V/60Hz
Test By:/Review By:	Charlie Zha/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	24.5°C/52.6%//101kPa
Remark:	SR2

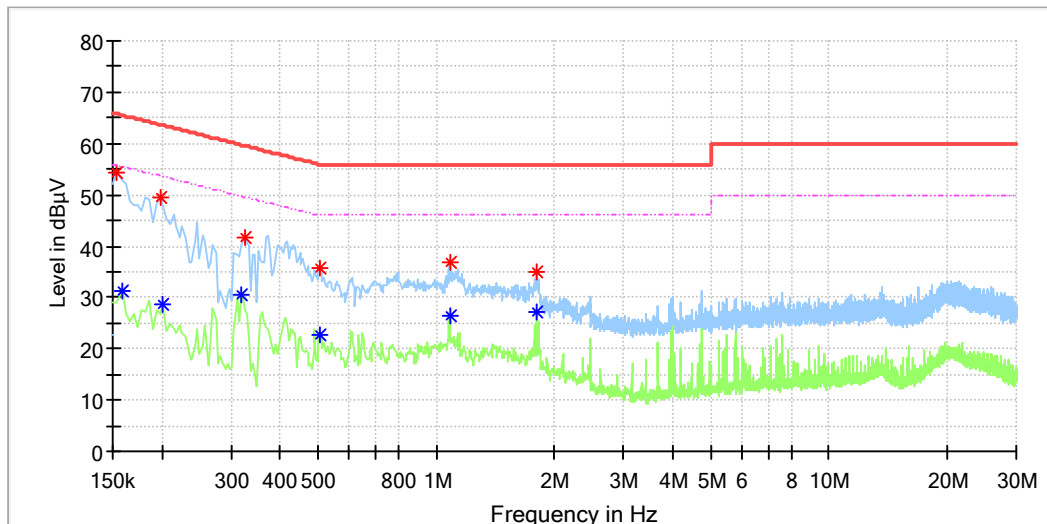


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	30.52	55.57	25.05	L1	9.9
0.158000	49.70	---	65.57	15.87	L1	9.9
0.214000	48.05	---	63.05	14.99	L1	9.9
0.218000	---	28.22	52.90	24.67	L1	9.9
0.282000	40.97	---	60.76	19.79	L1	9.9
0.282000	---	28.05	50.76	22.71	L1	9.9
0.374000	---	25.60	48.41	22.81	L1	9.9
0.374000	41.46	---	58.41	16.95	L1	9.9
1.802000	---	27.22	46.00	18.78	L1	10.1
1.822000	33.34	---	56.00	22.66	L1	10.1
3.194000	---	23.55	46.00	22.45	L1	10.2
3.218000	31.61	---	56.00	24.39	L1	10.2

## EUT Information

EUT Name:	3-in-1 Wireless Charger with MagSafe
Order No:	168378467_P00731114
Model:	NS-MM531S23
Test mode:	A+B
Test Voltage:	AC 120V/60Hz
Test By:/Review By:	Charlie Zha/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	24.5°C/52.6%/101kPa
Remark:	SR2



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	54.26	---	65.78	11.52	N	9.8
0.158000	---	31.21	55.57	24.35	N	9.8
0.198000	49.64	---	63.69	14.06	N	9.8
0.202000	---	28.74	53.53	24.79	N	9.8
0.318000	---	30.33	49.76	19.43	N	9.8
0.326000	41.60	---	59.55	17.95	N	9.8
0.506000	35.67	---	56.00	20.33	N	9.8
0.506000	---	22.70	46.00	23.30	N	9.8
1.082000	36.82	---	56.00	19.18	N	9.8
1.082000	---	26.48	46.00	19.52	N	9.8
1.802000	34.91	---	56.00	21.09	N	9.8
1.802000	---	27.32	46.00	18.68	N	9.8



## **6 Photographs of the Test Set-Up**

Refer to test photo document.

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