





FCC Test Report FCC ID:2A3AX-GP179D

Product: Fast Wireless Charger

Trade Name: **GGRIFFIN**

Model Number: GP-179-VRP-NA

GP-179-BLK-NA, GP-179-BLU-NA,

Family Model: GP-179-AQA-NA, GP-179-PUR-NA,

GP-179-SLGRY-NA, GP-179-NVY-NA

Report No.: S22082601001001

Prepared for

Vinci Brands LLC

1775 Flight Way, Suite 300, Tustin, CA 92782, United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, SanweiCommunity, Xixiang Street, Bao'an District, Shenzhen P.R. China
Tel:400-800-6106,0755-2320 0050 / 2320 0090
Website:http://www.ntek.org.cn





TEST RESULTCERTIFICATION

Applicant's name:	Vinci Brands LLC
Address:	1775 Flight Way, Suite 300, Tustin, CA 92782, United States
Manufacturer's Name:	PYS High-Tech Co., Ltd
Address:	1F~12F, Block 9, Lianhua Industrial Zone, Longhua, Shenzhen,Guangdong 518109 CHINA
Factory's Name:	PYS High-Tech Co., Ltd/PYS VIETNAM TECHNOLOGY COMPANY LIMITED
Address:	1F~12F, Block 9, Lianhua Industrial Zone, Longhua, Shenzhen, Guangdong 518109 CHINA /CN-06, Thuan Thanh II industrial zone, Mao Dien commune, Thuan Thanh district, BacNinh, Vietnam
Model and/or type reference :	GP-179-VRP-NA
Family Model:	GP-179-BLK-NA, GP-179-BLU-NA, GP-179-AQA-NA, GP-179-PUR-NA, GP-179-SLGRY-NA, GP-179-NVY-NA
Test sample number	S220826010001
	KDB 680106 D01 RF Exposure Wireless Charging App v03r01 s been tested by ShenzhenNTEK Testing Technology Co., Ltd.,
requirements. And it is applicabl This report shall not be reproduc Testing Technology Co., Ltd., thi	e equipment under test (EUT) is in compliance with the FCC e only to the tested sample identified in the report. Seed except in full, without the written approval of ShenzhenNTEK is document may be altered or revised by Shenzhen NTEK Testing only, and shall be noted in the revision of the document.
The test results of this report relate of Test	ate only to the tested sample identified in this report.
Date (s) of performance of tests	: 31 Aug. 2022 ~ 13 Oct. 2022
Date of Issue	: 14 Oct. 2022
Test Result	: Pass
Testing Engine	eer: (Allen Liu)
Authorized Sig	natory: (Alex Li)

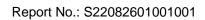






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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission								
Standard	Test Item	FCC Rules	Limit	Judgment	Remark			
FCC part 15C:2018 ANSI C63.10:2013	Conducted Emission	§15.207	Class B	PASS				
	Radiated Emission	§15.209	Class B	PASS				
	ANTENNA APPLICATION	§15.203	/	PASS				
	20dB BANDWIDTH	§15.215	Class B	PASS				

NOTE:

- (1)'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.





1.1 FACILITIES AND ACCREDITATIONS

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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number:463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstratestechnical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	2.8	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	9KHz ~1000MHz	2.64	
		1GHz ~12.4GHz	2.40	





Revision History

Report No.	Version	Description	Issued Date
S22082601001001	Rev.01	Initial issue of report	14 Oct. 2022





2. GENERAL INFORMATION

2.1GENERAL DESCRIPTION OF EUT

	Product Feature and Specification					
Equipment	Fast Wireless Charger					
Trade Name	G GRIFFIN					
FCC ID	2A3AX-GP179D					
Model No.	GP-179-VRP-NA					
Family Model	GP-179-BLK-NA, GP-179-BLU-NA, GP-179-AQA-NA, GP-179-PUR-NA, GP-179-SLGRY-NA, GP-179-NVY-NA					
Model Difference	All the model are the same circuit and RF module, except the exterior color and model name difference.					
Operating Frequency	111kHz~175kHz					
Modulation Technique	Induction					
Antenna Type	Induction coil(Note 1)					
Power Rating	Input: 5.0V2.0A / 9.0V2A Output: 10W Max					
Battery	N/A					
HW Version	N/A					
SW Version	V1.0					

Note1: The product has two induction coils, only the worst induction coil 1 is reflected in the report.





2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

EUT Exercise

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

The following summary table is showing all test modes to demonstrate in compliance with the standard.

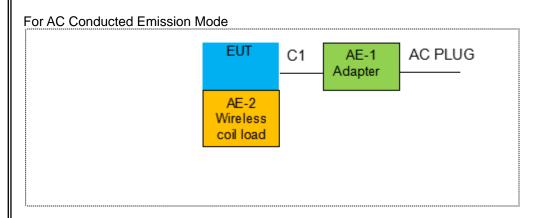
Test Cases					
Test Item Data Rate/ Modulation					
AC Conducted Emission	Mode 1: Max load				
Radiated Test Cases	Mode 1: Max load				

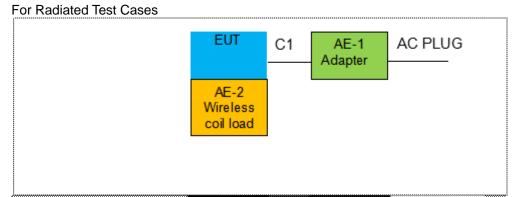
Wireless output 10W(Max)full load, half load and no load mode has been tested. But the Max Load mode is the worst mode, and only this mode was presented in this report.





2.2DESCRIPTION OF TEST SETUP









2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Wireless Coil load	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB cable	YES	NO	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" means "shielded" with core"; "NO" means "unshielded" without core".





2.4MEASUREMENT INSTRUMENTS LIST

RadiationTest equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.01	2023.03.31	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.01	2023.03.31	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2022.06.17	2023.06.16	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.11.07	2022.11.06	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50ΩCoaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year





3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	li	mit
FREQUENCY (MITZ)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

The fellowing table is the setting of the receiver	is renorming table to the country of the receiver				
Receiver Parameters	Setting				
Attenuation	10 dB				
Start Frequency	0.15 MHz				
Stop Frequency	30 MHz				
IF Bandwidth	9 kHz				

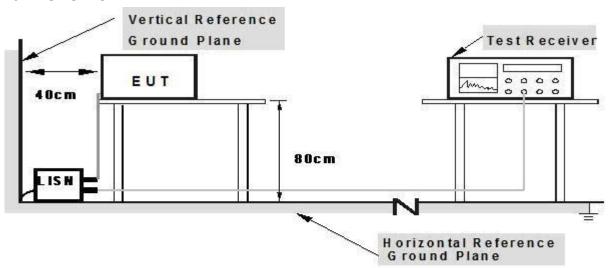




3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.





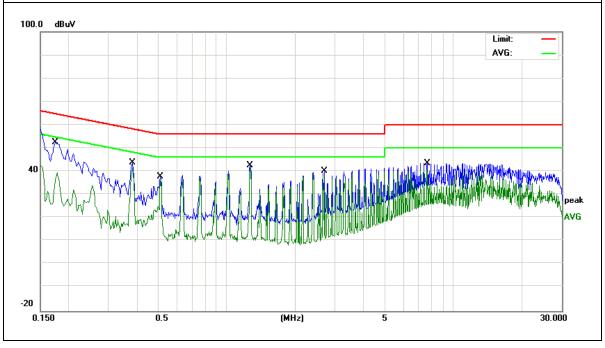
3.1.5TEST RESULTS

EUT:	Fast Wireless Charger	Model Name.:	GP-179-VRP-NA
Temperature:	21.1℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damadı
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1758	42.75	9.61	52.36	64.68	-12.32	QP
0.1758	32.41	9.61	42.02	54.68	-12.66	AVG
0.3820	34.10	9.65	43.75	58.23	-14.48	QP
0.3820	32.15	9.65	41.80	48.23	-6.43	AVG
0.5100	27.96	9.66	37.62	56.00	-18.38	QP
0.5100	19.54	9.66	29.20	46.00	-16.80	AVG
1.2660	33.02	9.68	42.70	56.00	-13.30	QP
1.2660	31.77	9.68	41.45	46.00	-4.55	AVG
2.6979	30.30	9.72	40.02	56.00	-15.98	QP
2.6979	20.53	9.72	30.25	46.00	-15.75	AVG
7.6498	33.57	9.86	43.43	60.00	-16.57	QP
7.6498	23.29	9.86	33.15	50.00	-16.85	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





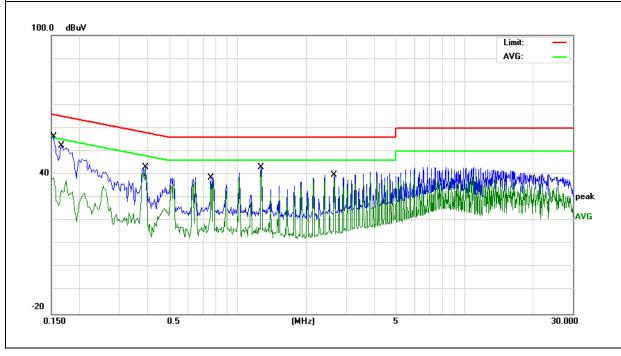


EUT:	Fast Wireless Charger	Model Name. :	GP-179-VRP-NA
Temperature:	21.1℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	N
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	46.76	9.65	56.41	65.78	-9.37	QP
0.1539	29.02	9.65	38.67	55.78	-17.11	AVG
0.1660	42.83	9.65	52.48	65.15	-12.67	QP
0.1660	32.37	9.65	42.02	55.15	-13.13	AVG
0.3899	33.61	9.66	43.27	58.06	-14.79	QP
0.3899	32.19	9.66	41.85	48.06	-6.21	AVG
0.7620	29.01	9.68	38.69	56.00	-17.31	QP
0.7620	18.57	9.68	28.25	46.00	-17.75	AVG
1.2660	33.41	9.67	43.08	56.00	-12.92	QP
1.2660	32.03	9.67	41.70	46.00	-4.30	AVG
2.6619	30.04	9.69	39.73	56.00	-16.27	QP
2.6619	20.56	9.69	30.25	46.00	-15.75	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.







3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

Notes

- :
- (1) Measurement was performed at an antenna to the closed point of EUT distance ofmeters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209limit.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector





3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited testfacility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the topof a variable-height antenna tower.
- c. The antenna is a broadband antenna (Blow 30M, use loop antenna), and its height 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned toheights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to findthe maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz forquasi-peak detection (QP) at frequency below 1GHz.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW \geqslant 3*RBW

Sweep = auto

Detector function = QP

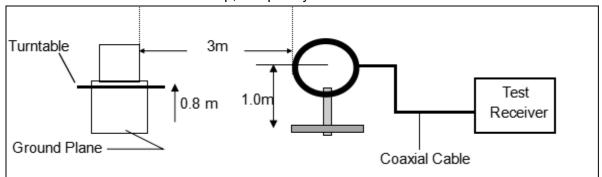
Trace = max hold



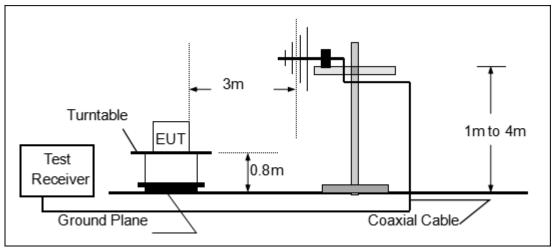


3.2.3 TEST SETUP

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



b) For Radiated Emission 30~1000MHz







3.2.4TEST RESULTS

TEST RESULTS(9KHz~30MHz)

Note:

EUT:	Fast Wireless Charger	Model Name.:	GP-179-VRP-NA
Temperature:	24℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Power :	AC 120V/60HZ
Test Mode :	Mode 1	Polarization:	X

Frequency	Ant.Pol.	Emission	Limits	Margin	Remark
		Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.038	Х	48.59	116.009	-67.42	Avg
0.097	X	45.36	107.869	-62.51	Avg
0.135	Х	72.85	104.998	-32.15	Avg
0.662	Х	45.32	71.187	-25.87	QP
1.588	X	43.36	63.587	-20.23	QP
11.547	Х	40.35	69.542	-29.19	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





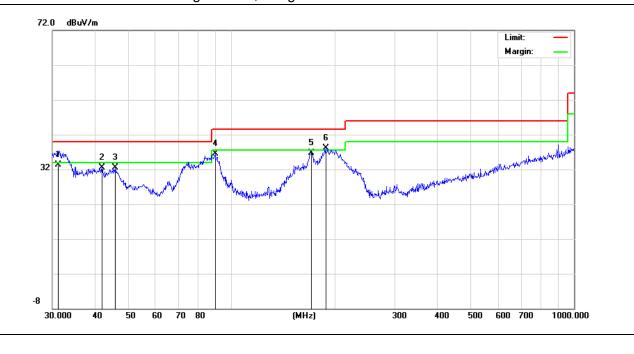
TEST RESULTS(30MHz ~1000MHz)

EUT:	Fast Wireless Charger	Model Name.:	GP-179-VRP-NA
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010hPa	Test Power :	AC 120V/60HZ
Test Mode :	Mode 1	Polarization:	Vertical

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriant
V	31.1962	7.70	25.64	33.34	40.00	-6.66	QP
V	41.8596	13.11	19.34	32.45	40.00	-7.55	QP
V	45.8553	15.14	17.41	32.55	40.00	-7.45	QP
V	89.5899	19.87	16.68	36.55	43.50	-6.95	QP
V	170.7926	19.42	17.21	36.63	43.50	-6.87	QP
V	188.4125	21.92	16.23	38.15	43.50	-5.35	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.





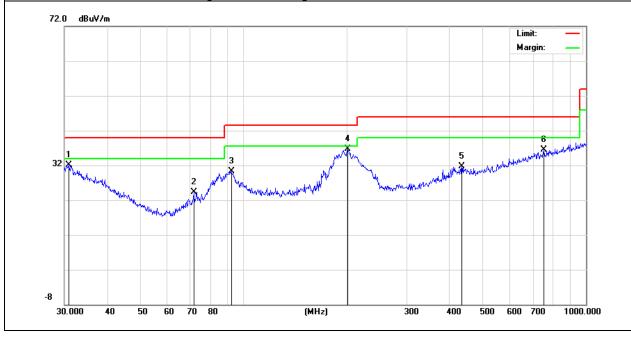


EUT:	Fast Wireless Charger	Model Name. :	GP-179-VRP-NA
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010hPa	Test Power:	AC 120V/60HZ
Test Mode:	Mode 1	Polarization:	Horizontal

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
Н	30.9618	6.21	25.87	32.08	40.00	-7.92	QP
Н	71.5806	10.28	13.93	24.21	40.00	-15.79	QP
Н	92.1388	13.03	17.29	30.32	43.50	-13.18	QP
Н	201.3930	20.22	16.54	36.76	43.50	-6.74	QP
Н	434.0651	7.75	23.88	31.63	46.00	-14.37	QP
Н	752.7432	7.78	28.74	36.52	46.00	-9.48	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.







4. BANDWIDTH TEST

4.1TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.
- **4.2TEST SETUP**

EUT	SPECTRUM
	ANALYZER

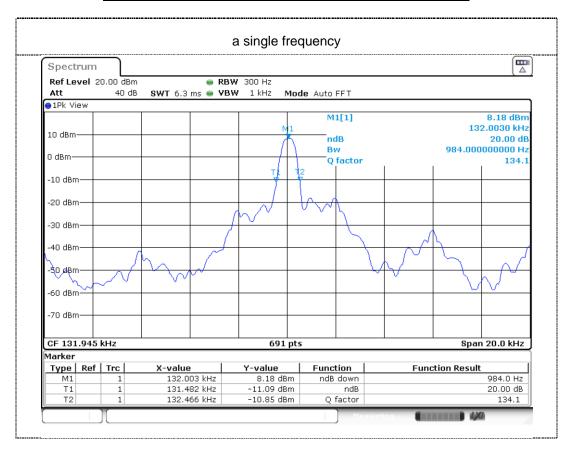




4.3 TEST RESULT

EUT:	Fast Wireless Charger	Model Name. :	GP-179-VRP-NA
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode :	Mode 1
Test Power:	AC 120V/60HZ		

-20dB Bandwidth-a single frequency(Hz)	F _∟ (kHz)	F _H (kHz)
984	131.482	132.466







5. ANTENNA APPLICATION

5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shallbe designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

The EUT antenna ispermanent attached antenna. It comply with the standard requirement.

END REPORT