

FCC PART 15C


TEST REPORT

For

JEM ACCESSORIES INC.

32 Brunswick Avenue Edison, NJ 08817, United States

FCC ID: 2AHAS-XBB80155

Report Type: Original Report	Product Type: 5000mAh Power Bank Wireless
Report Number: RSZ201013840-00	
Report Date: 2020-11-18	
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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY	3
TEST FACILITY	4
SYSTEM TEST CONFIGURATION.....	5
JUSTIFICATION	5
EUT EXERCISE SOFTWARE	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL I/O CABLE.....	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
TEST EQUIPMENT LIST	8
FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)	9
APPLICABLE STANDARD	9
BLOCK DIAGRAM OF TEST SETUP	10
TEST DATA	10
FCC§15.203 – ANTENNA REQUIREMENT	12
APPLICABLE STANDARD	12
ANTENNA CONNECTED CONSTRUCTION	12
FCC §15.207 – AC LINE CONDUCTED EMISSION	13
APPLICABLE STANDARD	13
EUT SETUP	13
EMI TEST RECEIVER SETUP.....	13
TEST PROCEDURE	13
CORRECTED FACTOR & MARGIN CALCULATION	14
TEST DATA	14
FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST	19
APPLICABLE STANDARD	19
EUT SETUP	19
EMI TEST RECEIVER SETUP.....	20
CORRECTED AMPLITUDE & MARGIN CALCULATION	20
TEST DATA	20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	5000mAh Power Bank Wireless
Tested Model	XBB8-0155-BLK
Frequency Range	110-205kHz
Antenna Type	Coil
Voltage Range	DC 3.7V from battery or DC 5.0V from USB port
Date of Test	2020-10-27 to 2020-11-14
Sample serial number	RSZ201013840-RF-S1(Assigned by BACL, Shenzhen)
Received date	2020-10-13
Sample/EUT Status	Good Condition

Objective

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207 and 15.209.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Line Conducted Emissions		±1.95 dB
Radiated emission	9 kHz~30MHz	±4.52 dB
	30MHz~1 GHz	±5.81 dB
Occupied Bandwidth		±0.5 kHz
Temperature		±3.0 °C
Humidity		±6 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a test mode

EUT Exercise Software

No software used in test.

Support Equipment List and Details

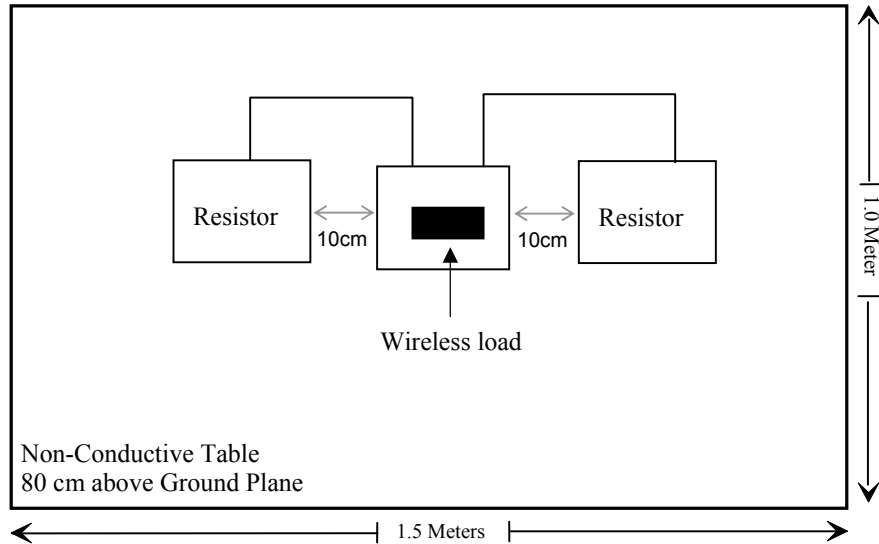
Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
EESON	Wireless load 1	2S	2S
Unknown	10Ω Resistor	Unknown	Unknown
Unknown	10Ω Resistor	Unknown	Unknown
BLU	Adapter	TPA-46050200UU	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-Shielded Un-Detachable AC Cable	1.0	Socket	LISN
Un-Shielded Un-Detachable USB Cable	0.3	Resister	EUT
Un-Shielded Un-Detachable USB Cable	0.3	Resister	EUT
Un-Shielded Detachable Type-C Cable	1.0	Adapter	EUT

Block Diagram of Test Setup

Wireless Charging:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliance
FCC§15.203	Antenna Requirement	Compliance
FCC§15.207	AC Line Conducted Emission	Compliance
§15.209 §15.205	Radiated Emission Test	Compliance

Note: the wireless charging can't work when Micro USB or Type C port was charging.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
MPE					
Narda	Exposure Level Tester	ELT-400	N-0229	2019/11/15	2021/11/14
Narda	B Field Probe	ELT Probe 100cm ²	M-0666	2019/11/15	2021/11/14
ETS-Lindgreen	Isotropic Field Probe	HI—6005	69461	2018/09/28	2021/09/27
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2019/11/29	2020/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
RF Radiated test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21
ETS	Passive Loop Antenna	6512	29604	2018/07/14	2021/07/13
Unknown	Cable	Chamber Cable 4	EC-007	2019/11/29	2020/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

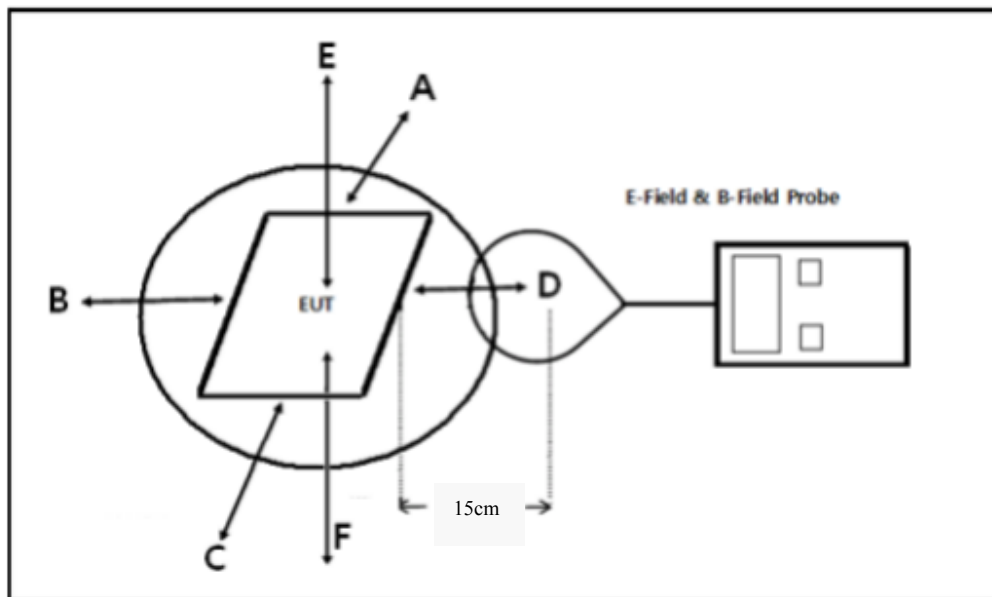
f = frequency in MHz; * = Plane-wave equivalent power density;

According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03 clause 3 c)

- c) For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

According to KDB 680106 D01 RF Exposure Wireless Charging App v03 clause 5 b)

- b) Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance. However, the responsible party is required to keep a copy of the test report in accordance with KDB 865664 D02. A copy of the test report is to be submitted with the application if the device is approved using certification.
- (1) Power transfer frequency is less than 1 MHz.
 - (2) Output power from each primary coil is less than or equal to 15 watts.
 - (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
 - (4) Client device is placed directly in contact with the transmitter.
 - (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
 - (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Block Diagram of Test Setup

Note: 20 cm for Top test.

Test Data**Environmental Conditions**

Temperature:	25°C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Andy Yu on 2020-11-14.

Test mode: Wireless Charging

H-Filed Strength

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit Test (A/m)
110-205	0.234	0.233	0.221	0.214	0.238	0.815	1.63

E-Filed Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit Test (V/m)
110-205	1.132	1.214	1.126	1.134	1.113	307	614

Note: Test with 15cm distance from the center of the probe(s) to the edge of the device, 20 cm for top test.

Result: Pass**Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03 clause 5 b:**

(1) Power transfer frequency is less than 1 MHz.

Yes, the operation frequency is 110-205 kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of primary coil is 5 Watts, less than 15 watts.

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

The transfer system includes only single primary coils to detect and allow coupling only between individual pairs of coils.

(4) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, mobile exposure conditions only

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the test result for H and E-filed strength less than 50% of the MPE limit.

FCC§15.203 – ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connected Construction

The EUT has one coil antenna arrangement, which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Pass

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

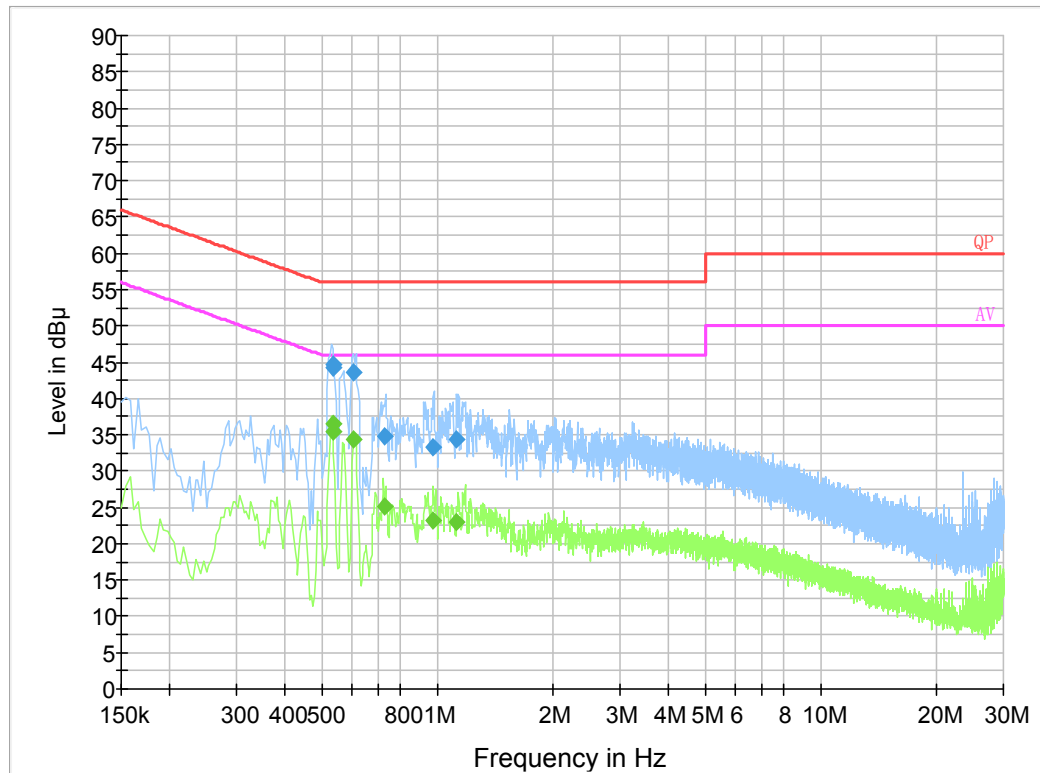
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2020-11-14.

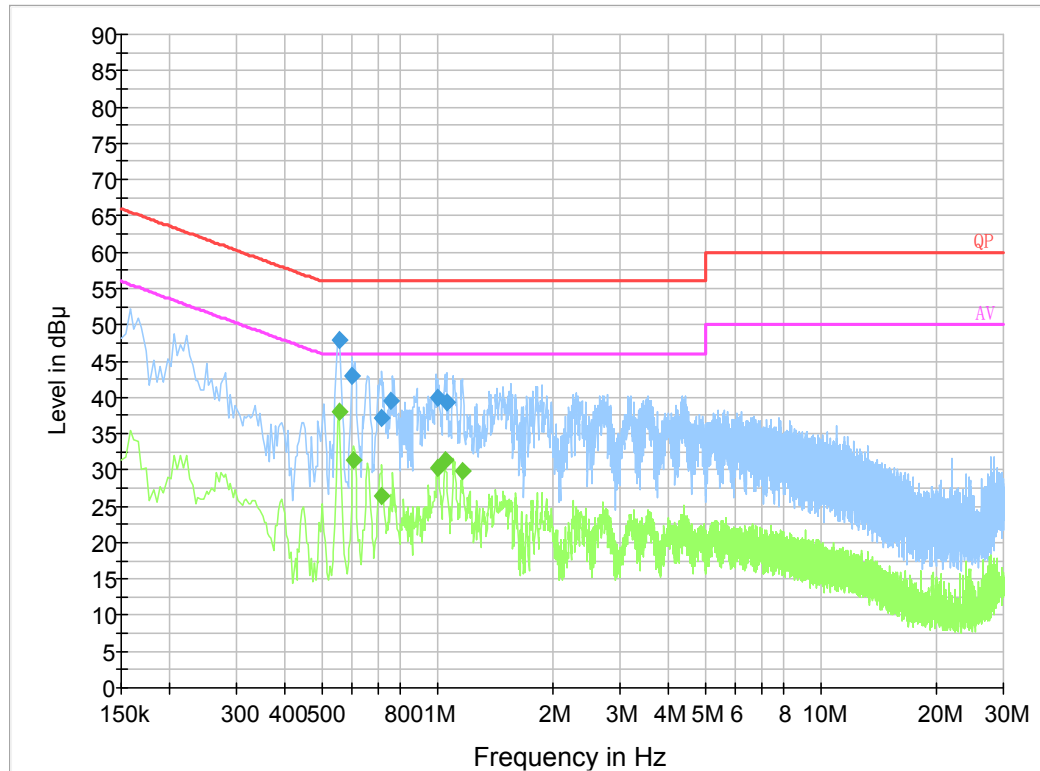
Test mode: Wired Charging

Micro USB Input:**AC 120 V/60 Hz, Line:****Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.533930	44.3	9.000	L1	19.8	11.7	56.0
0.534050	44.7	9.000	L1	19.8	11.3	56.0
0.604910	43.5	9.000	L1	19.8	12.5	56.0
0.726990	34.8	9.000	L1	19.8	21.2	56.0
0.975270	33.3	9.000	L1	19.9	22.7	56.0
1.124930	34.3	9.000	L1	19.8	21.7	56.0

Final Result 2

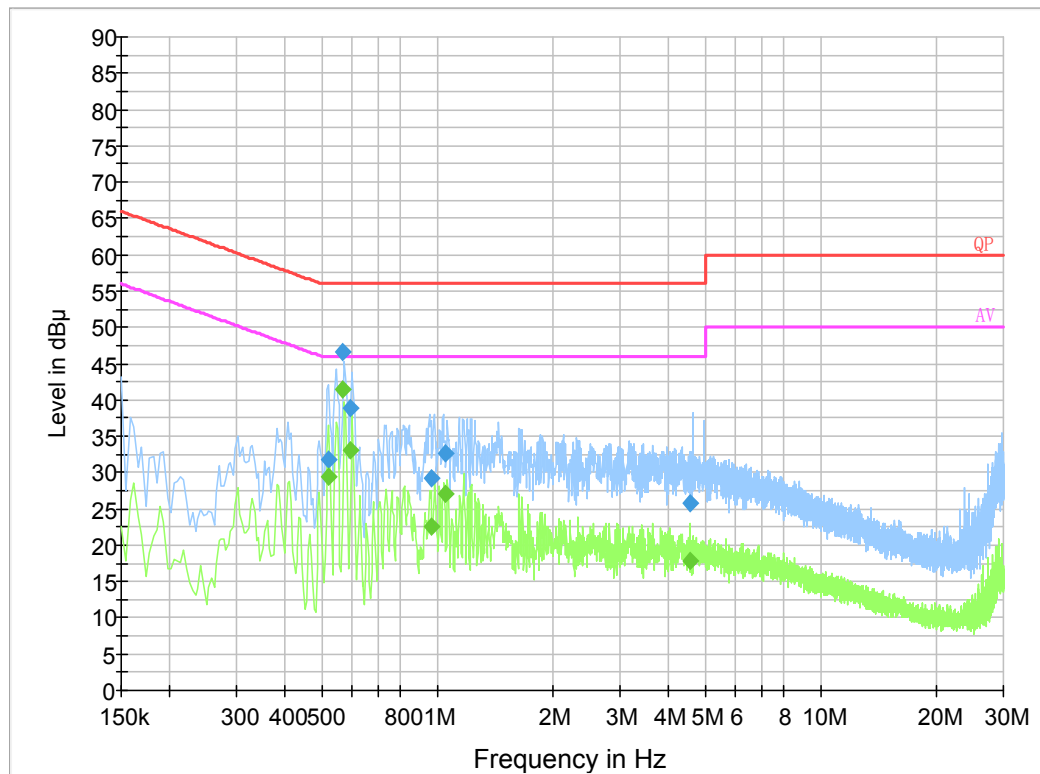
Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.533930	35.4	9.000	L1	19.8	10.6	46.0
0.534050	36.4	9.000	L1	19.8	9.6	46.0
0.604910	34.5	9.000	L1	19.8	11.5	46.0
0.726990	25.1	9.000	L1	19.8	20.9	46.0
0.975270	23.2	9.000	L1	19.9	22.8	46.0
1.124930	23.0	9.000	L1	19.8	23.0	46.0

AC 120V/ 60 Hz, Neutral:**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.553630	48.0	9.000	N	19.8	8.0	56.0
0.596970	43.1	9.000	N	19.8	12.9	56.0
0.715230	37.2	9.000	N	19.8	18.8	56.0
0.758510	39.5	9.000	N	19.8	16.5	56.0
0.999090	40.0	9.000	N	19.8	16.0	56.0
1.062130	39.2	9.000	N	19.8	16.8	56.0

Final Result 2

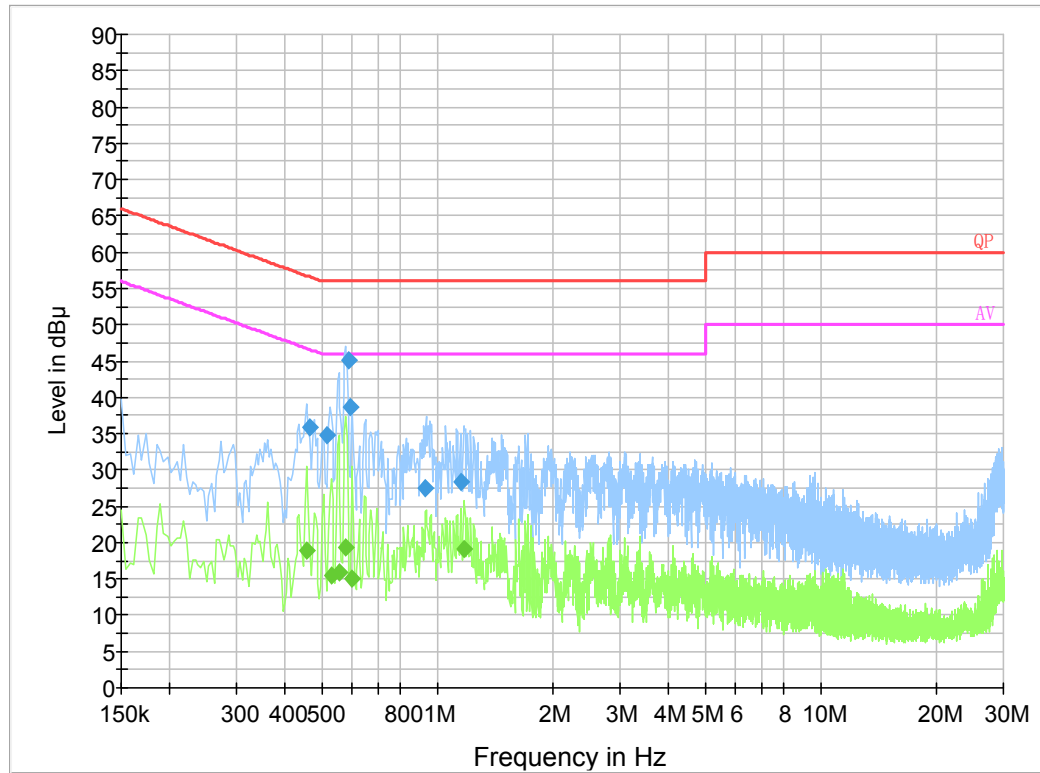
Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.554000	38.0	9.000	N	19.8	8.0	46.0
0.606000	31.4	9.000	N	19.8	14.6	46.0
0.718000	26.5	9.000	N	19.8	19.5	46.0
1.002000	30.3	9.000	N	19.8	15.7	46.0
1.050000	31.4	9.000	N	19.8	14.6	46.0
1.162000	29.8	9.000	N	19.8	16.2	46.0

Type-C Input:**AC 120 V/60 Hz, Line:****Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.522170	31.8	9.000	L1	19.8	24.2	56.0
0.569390	46.6	9.000	L1	19.8	9.4	56.0
0.592970	38.9	9.000	L1	19.8	17.1	56.0
0.967270	29.1	9.000	L1	19.8	26.9	56.0
1.046430	32.6	9.000	L1	19.9	23.4	56.0
4.580370	25.8	9.000	L1	19.9	30.2	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.522170	29.5	9.000	L1	19.8	16.5	46.0
0.569390	41.5	9.000	L1	19.8	4.5	46.0
0.592970	33.1	9.000	L1	19.8	12.9	46.0
0.967270	22.5	9.000	L1	19.8	23.5	46.0
1.046430	27.0	9.000	L1	19.9	19.0	46.0
4.580370	17.8	9.000	L1	19.9	28.2	46.0

AC 120V/ 60 Hz, Neutral:**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.464870	35.9	9.000	N	19.8	20.7	56.6
0.518110	34.7	9.000	N	19.8	21.3	56.0
0.586670	45.0	9.000	N	19.8	11.0	56.0
0.592970	38.7	9.000	N	19.8	17.3	56.0
0.931930	27.5	9.000	N	19.8	28.5	56.0
1.156390	28.4	9.000	N	19.8	27.6	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.458000	18.8	9.000	N	19.8	27.9	46.7
0.530000	15.5	9.000	N	19.8	30.5	46.0
0.554000	16.0	9.000	N	19.8	30.0	46.0
0.578000	19.3	9.000	N	19.8	26.7	46.0
0.602000	15.1	9.000	N	19.8	30.9	46.0
1.174000	19.1	9.000	N	19.8	26.9	46.0

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

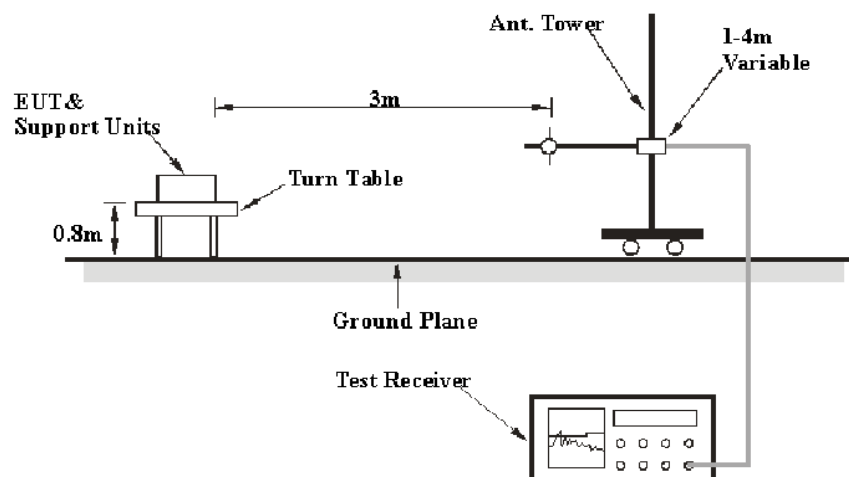
As per FCC Part 15.209

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

EUT Setup



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	PK
150 kHz – 30 MHz	10 kHz	30 kHz	PK
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

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.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

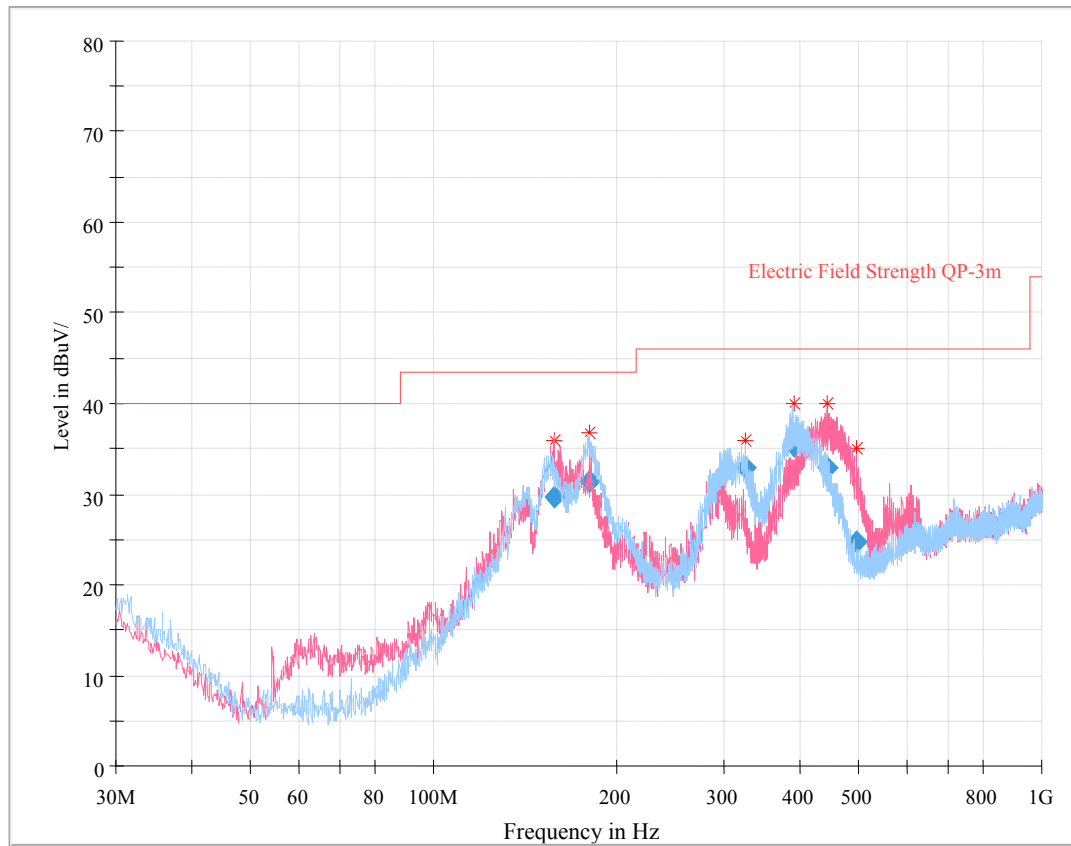
Test Data

Environmental Conditions

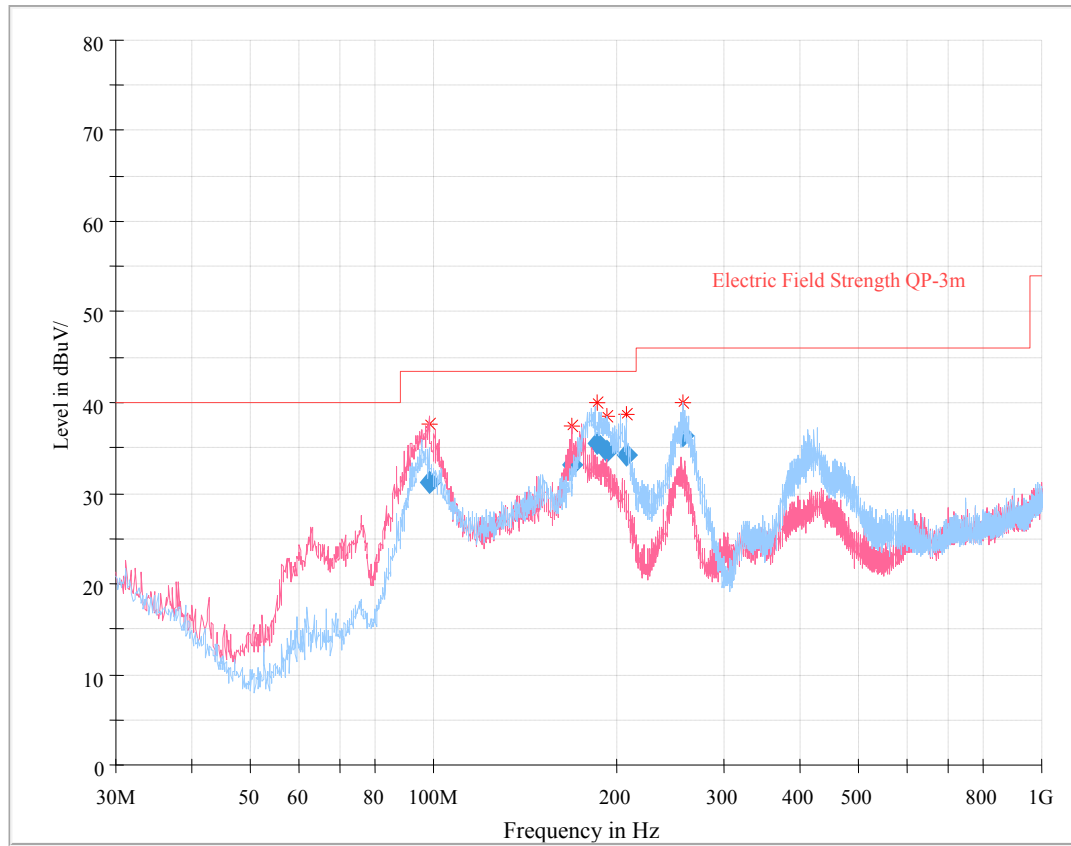
Temperature:	28 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Holland Yang on 2020-10-27.

Test mode: Wired Charging / Wireless Charging

Wired Charging:**Micro USB Input:****Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
157.660625	29.70	43.50	13.80	109.0	V	152.0	-11.1
179.736500	31.38	43.50	12.12	172.0	H	274.0	-12.0
324.989625	32.80	46.00	13.20	109.0	H	67.0	-8.8
390.204375	35.21	46.00	10.79	111.0	H	72.0	-7.6
443.840875	33.00	46.00	13.00	137.0	V	96.0	-6.2
496.283125	24.79	46.00	21.21	400.0	V	122.0	-4.9

Type-C Input:**Final_Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
98.224250	31.27	43.50	12.23	108.0	V	271.0	-14.3
168.822625	33.06	43.50	10.44	101.0	V	165.0	-11.6
185.233375	35.42	43.50	8.08	133.0	H	224.0	-12.0
192.371375	34.55	43.50	8.95	111.0	H	240.0	-11.7
207.238750	34.12	43.50	9.38	157.0	H	258.0	-10.7
256.614500	36.42	46.00	9.58	118.0	H	119.0	-10.6

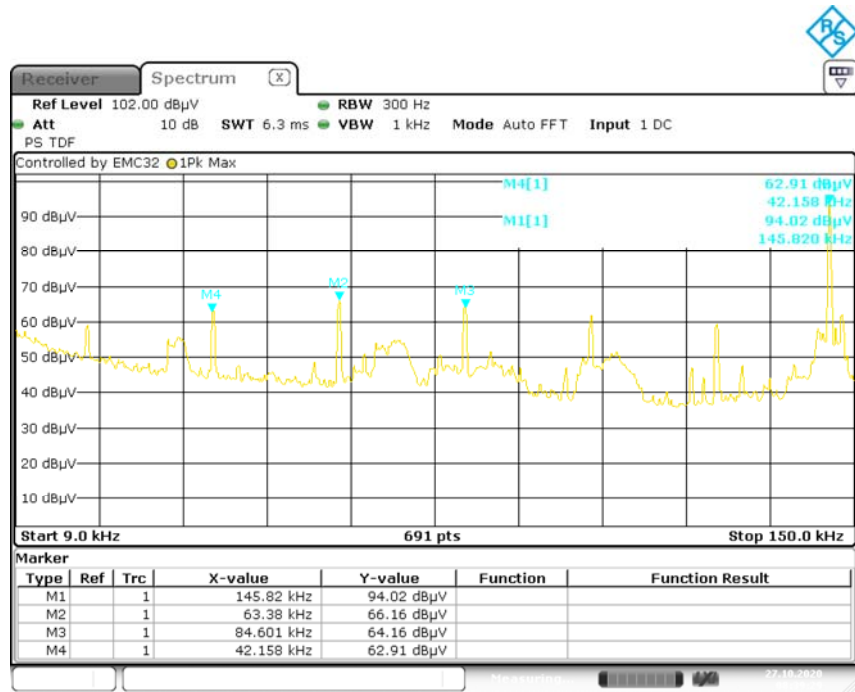
Wireless Charging:

1) 9 kHz~30MHz:

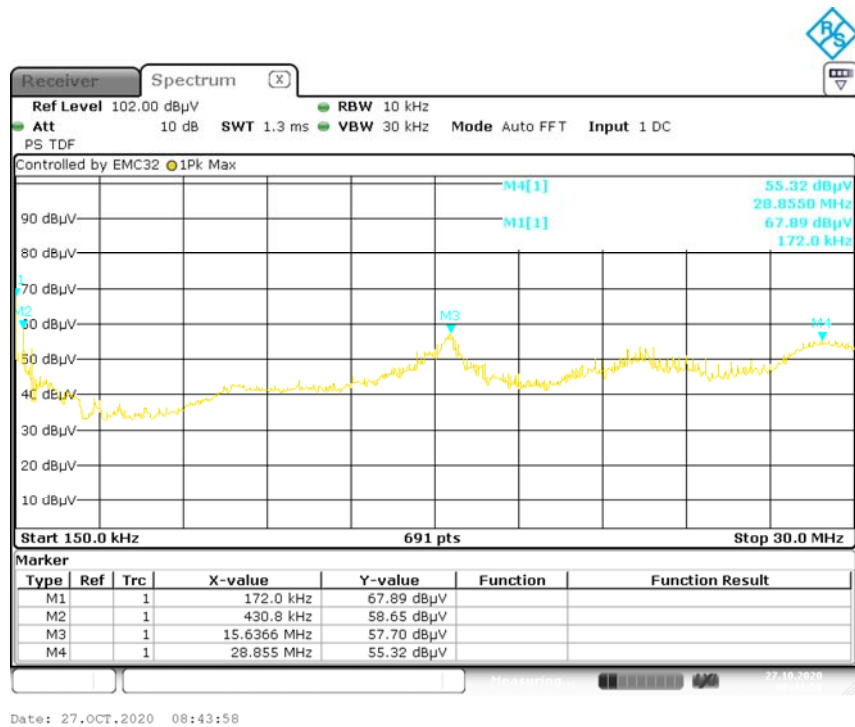
Frequency	Corrected Amplitude	Detector	Turntable	Rx Antenna	FCC Part 15.205&15.209		Remark
(MHz)	(dB μ V/m)	(PK/QP/AV)	Degree	Height (m)	Limit (dB μ V/m)	Margin (dB)	
0.06338	66.16	PK	143	1.0	111.57	45.41	Spurious emission
0.08460	64.16	PK	269	1.0	109.06	44.90	
0.1720	67.89	PK	243	1.0	102.89	35.00	
0.4308	58.65	PK	113	1.0	94.92	36.27	
15.6366	57.70	PK	187	1.0	69.54	11.84	
0.14582	94.02	PK	336	1.0	104.33	10.31	Fundamental

Note: PK detector data compliance with QP and average detector limit.

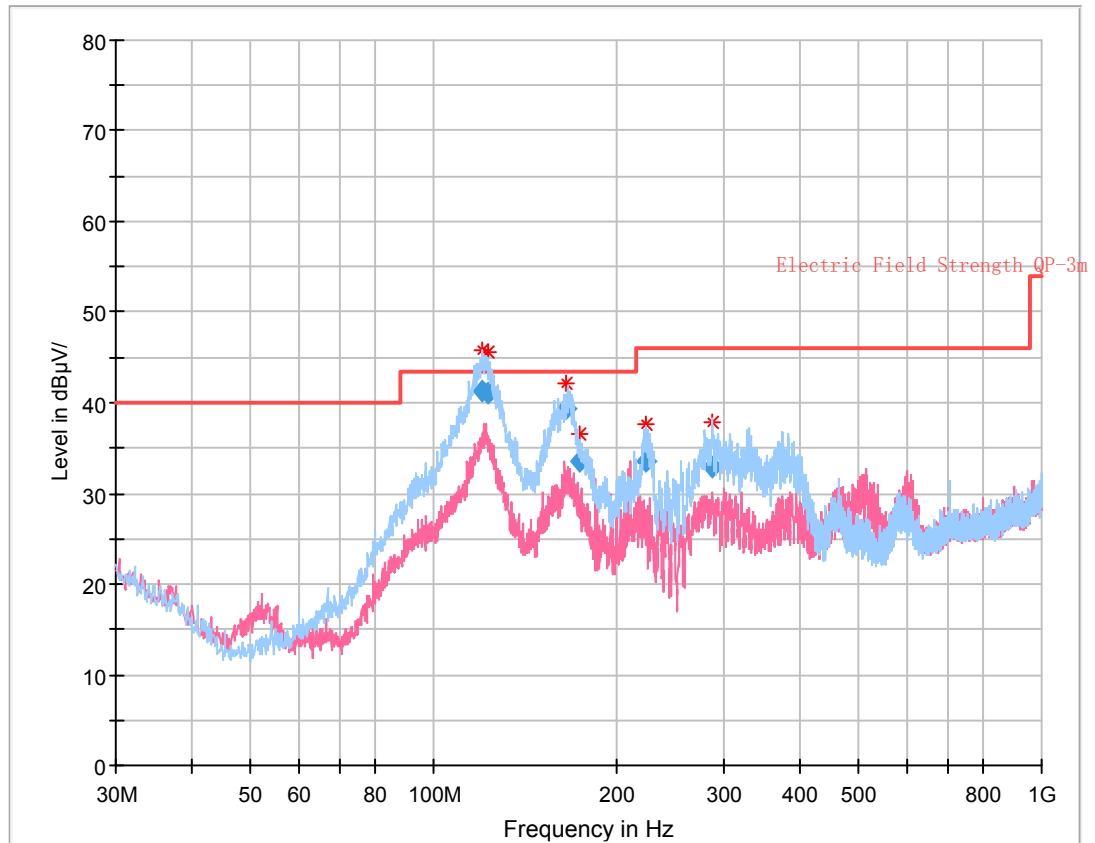
9 kHz-150 kHz



150 kHz-30 MHz



2) 30 MHz ~ 1 GHz

**Final_Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
120.287375	41.37	43.50	2.13	280.0	H	350.0	-10.8
122.565250	41.01	43.50	2.49	291.0	H	0.0	-10.8
165.351000	39.45	43.50	4.05	139.0	H	306.0	-11.5
173.926625	33.47	43.50	10.03	141.0	H	292.0	-11.8
223.781875	33.51	46.00	12.49	142.0	H	51.0	-10.7
286.763625	32.85	46.00	13.15	109.0	H	94.0	-9.6

Result: Pass******* END OF REPORT *******