



FCC PART 15C
TEST REPORT
For
JEM ACCESSORIES INC.

32 Brunswick Avenue Edison, NJ 08817, United States

FCC ID: 2AHAS-XWC81023

Report Type: Original Report	Product Type: 10W Wireless Charger Stand
Report Number: RSZ201217833-00	
Report Date: 2021-01-26	
Reviewed By: RF Engineer	Jacob Kong
Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen) 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn	

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	10W Wireless Charger Stand
Tested Model	XWC8-1023-BLK
Frequency Range	110-205kHz
Antenna Type	Coil
Voltage Range	DC5V/9V from USB port
Date of Test	2021-01-15 to 2021-01-25
Sample serial number	RSZ201217833-RF-S1 (Assigned by BACL, Shenzhen)
Received date	2020-12-17
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 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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

Note: The device has two coils, only one will transmit according to the phone orientation at same time.

EUT Exercise Software

No software used in test.

Local Support Equipment

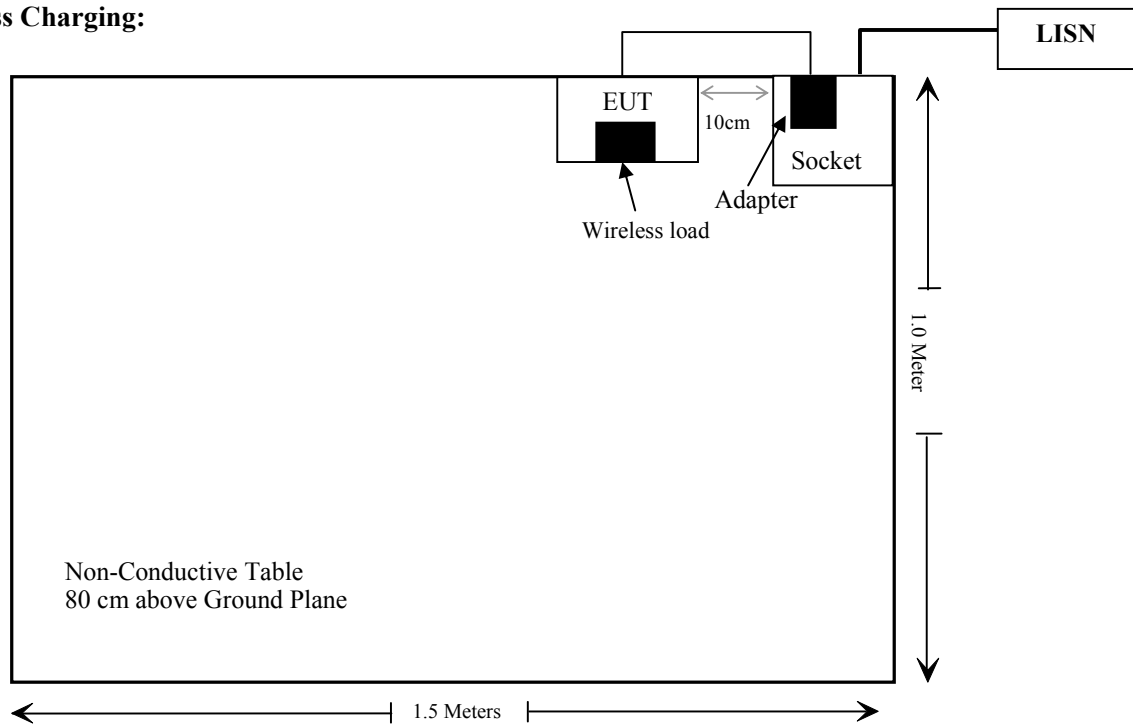
Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
EESON	Wireless load	2S	2S
YANZI	Adapter	LJL- 02CA38L4K2N00131	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded un-detachable AC cable	1.0	Socket	LISN
Unshielded detachable USB 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 device has two coils, only one will transmit according to the phone orientation at same time.

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	2021/11/15
Narda	B Field Probe	ELT Probe 100cm ²	M-0666	2019/11/15	2021/11/15
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	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
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	2018/12/22	2021/12/21
ETS	Passive Loop Antenna	6512	29604	2018/07/14	2021/07/13
Unknown	Cable	Chamber Cable 4	EC-007	2020/11/29	2021/11/28
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

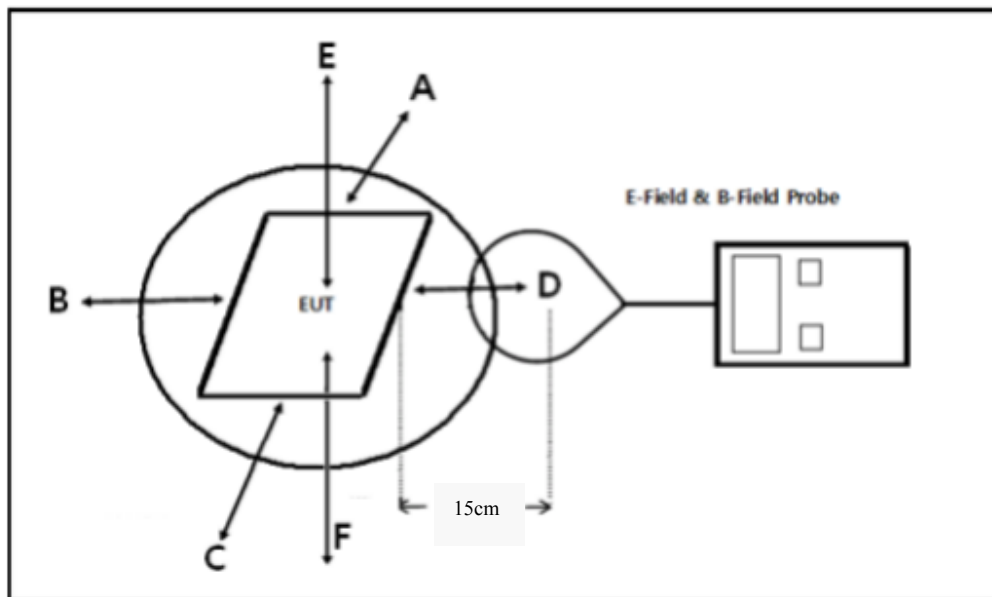
f = frequency in MHz; * = Plane-wave equivalent power density;

According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

- c) For devices designed for typical desktop applications, such a 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. Below 100 kHz, applicable reference levels for maximum instantaneous exposure field strengths are defined in clause 3.a).(2).

According to KDB 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b)

- (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 system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (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 anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable 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 2021-01-15.

Test Mode: Wireless Charging (Full Load)

*Up-Coil***H-Field 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	0.135	0.139	0.124	0.137	0.114	0.815	1.63

E-Field 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	1.124	1.245	1.147	1.137	1.104	307	614

*Down-Coil***H-Field 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	0.136	0.138	0.125	0.138	0.118	0.815	1.63

E-Field 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	1.125	1.246	1.148	1.139	1.112	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 v03r01 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 10 Watts, less than 15 watts.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

The transfer system includes two 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 anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes, the test result for H and E-Field 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 two 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

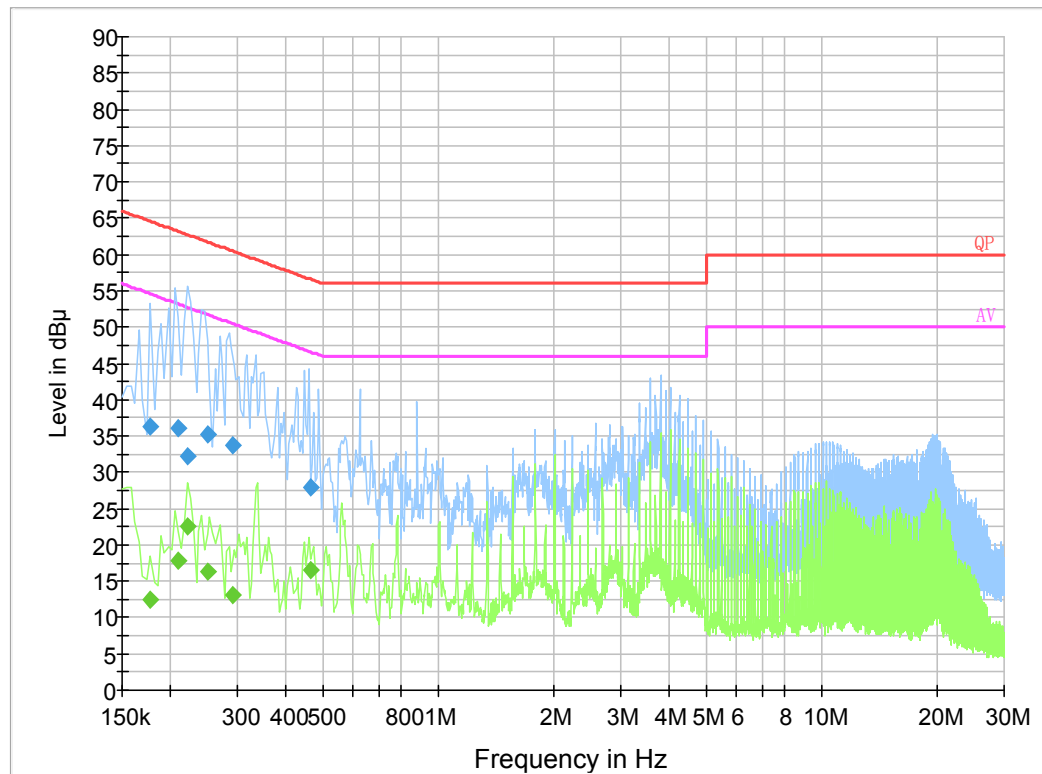
Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-01-15 and 2021-01-20.

Test Mode: Wireless Charging (Full Load)

Up-Coil

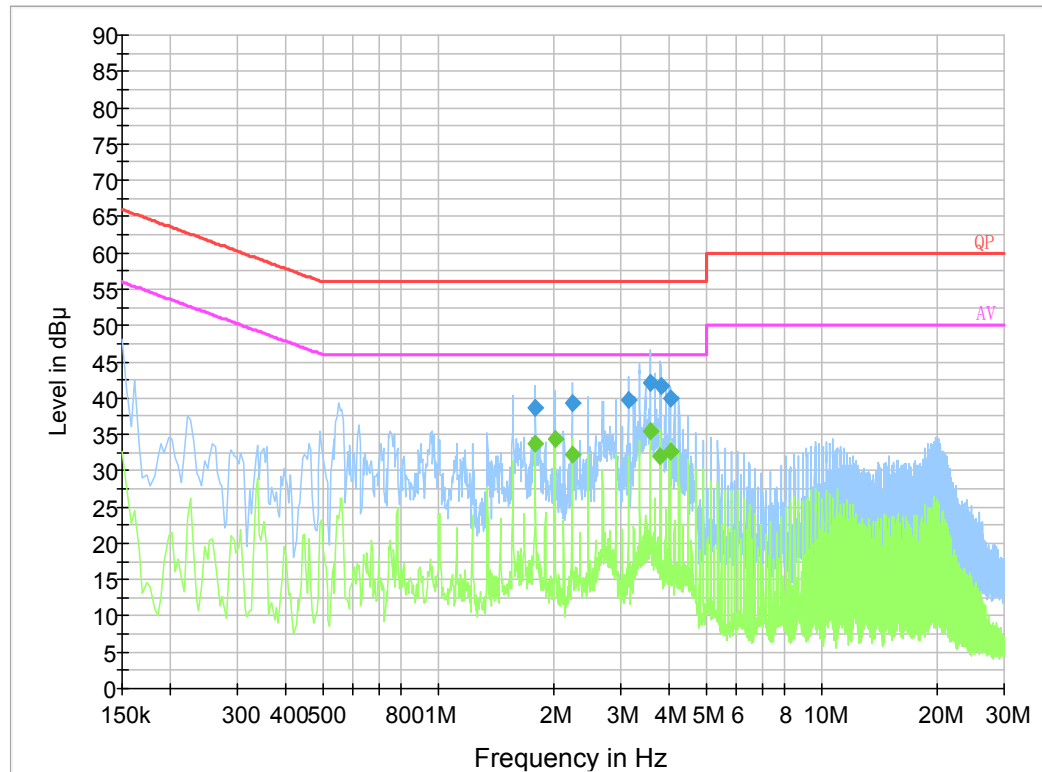
AC 120 V/60 Hz, Line:

**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.177500	36.2	9.000	L1	19.9	28.4	64.6
0.209500	36.2	9.000	L1	19.8	27.0	63.2
0.221500	32.3	9.000	L1	19.8	30.5	62.8
0.250501	35.2	9.000	L1	19.8	26.5	61.7
0.290500	33.7	9.000	L1	19.7	26.8	60.5
0.467070	27.9	9.000	L1	19.8	28.7	56.6

Final Result 2

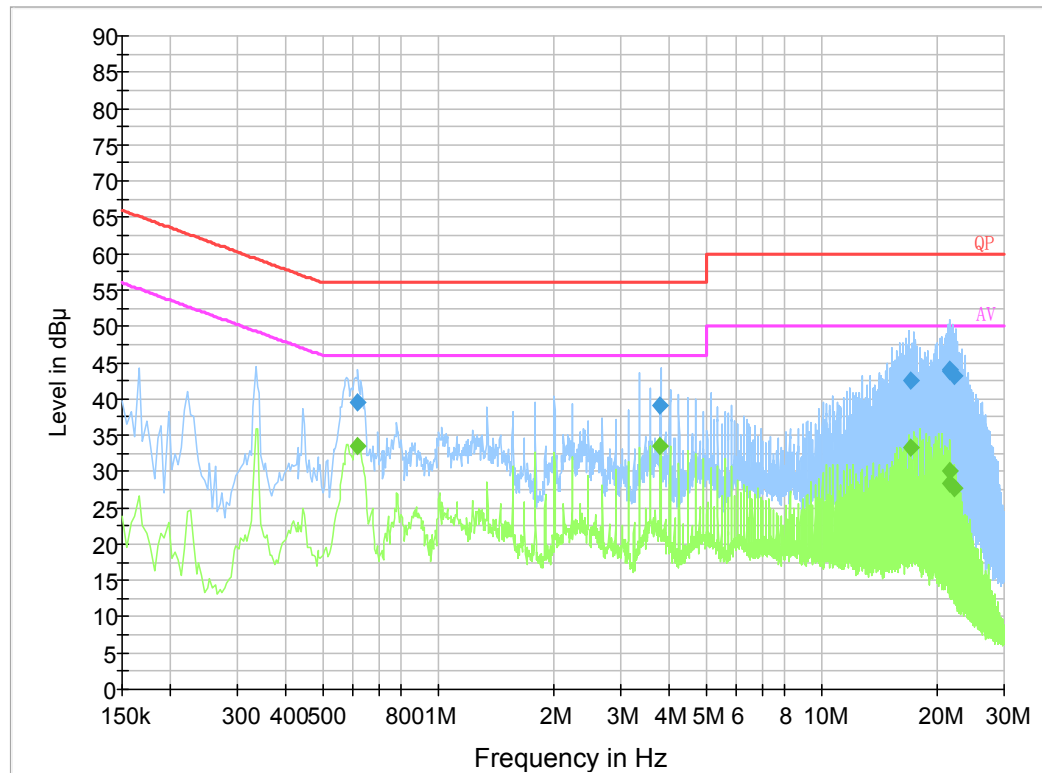
Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.177500	12.4	9.000	L1	19.9	42.2	54.6
0.209500	17.7	9.000	L1	19.8	35.5	53.2
0.221500	22.5	9.000	L1	19.8	30.3	52.8
0.250501	16.4	9.000	L1	19.8	35.3	51.7
0.290500	13.0	9.000	L1	19.7	37.5	50.5
0.467070	16.6	9.000	L1	19.8	30.0	46.6

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)
1.791090	38.7	9.000	N	19.8	17.3	56.0
2.240370	39.3	9.000	N	19.8	16.7	56.0
3.138990	39.7	9.000	N	19.9	16.3	56.0
3.588270	42.2	9.000	N	19.9	13.8	56.0
3.812910	41.8	9.000	N	19.9	14.2	56.0
4.037610	39.9	9.000	N	19.9	16.1	56.0

Final Result 2

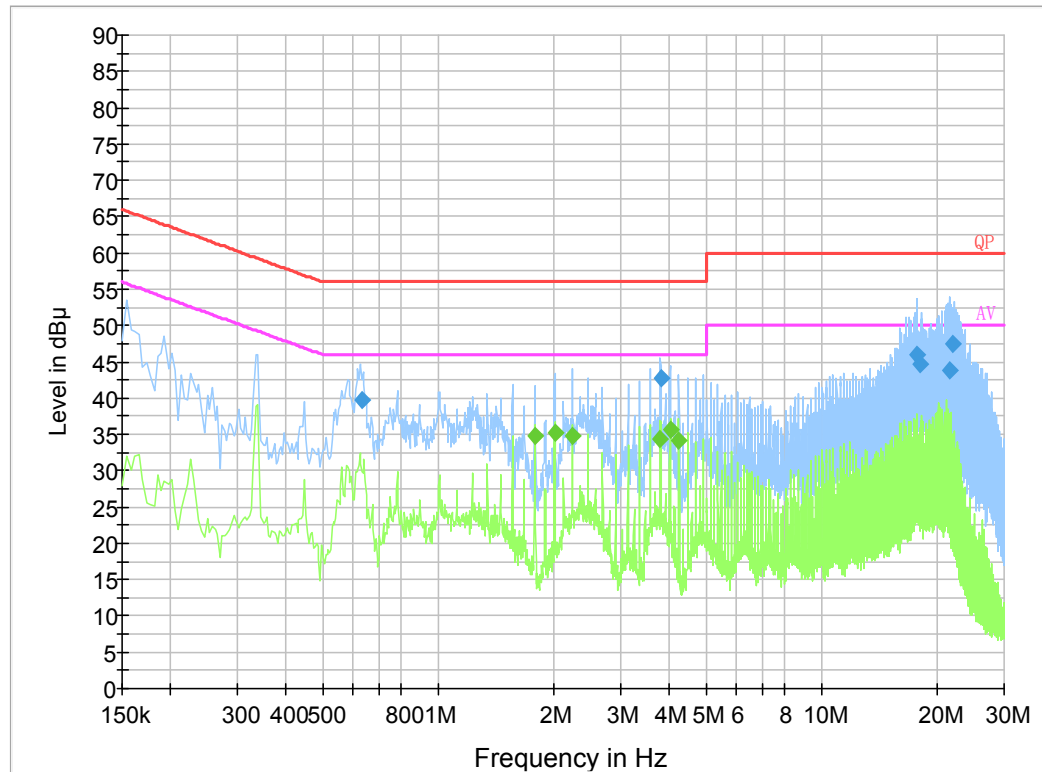
Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.794000	33.7	9.000	N	19.8	12.3	46.0
2.018000	34.3	9.000	N	19.9	11.7	46.0
2.238000	32.2	9.000	N	19.8	13.8	46.0
3.586000	35.5	9.000	N	19.9	10.5	46.0
3.806000	32.0	9.000	N	19.9	14.0	46.0
4.030000	32.6	9.000	N	19.9	13.4	46.0

*Down-Coil***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)
0.616730	39.6	9.000	L1	19.8	16.4	56.0
3.804790	39.2	9.000	L1	19.9	16.8	56.0
17.140290	42.4	9.000	L1	20.2	17.6	60.0
21.620910	44.0	9.000	L1	20.5	16.0	60.0
21.625730	43.8	9.000	L1	20.5	16.2	60.0
22.294770	43.1	9.000	L1	20.4	16.9	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.616730	33.6	9.000	L1	19.8	12.4	46.0
3.804790	33.4	9.000	L1	19.9	12.6	46.0
17.140290	33.3	9.000	L1	20.2	16.7	50.0
21.620910	28.4	9.000	L1	20.5	21.6	50.0
21.625730	30.0	9.000	L1	20.5	20.0	50.0
22.294770	27.8	9.000	L1	20.4	22.2	50.0

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)
0.632610	39.8	9.000	N	19.8	16.2	56.0
3.808910	42.6	9.000	N	19.9	13.4	56.0
17.810570	46.0	9.000	N	20.2	14.0	60.0
18.022910	44.8	9.000	N	20.2	15.2	60.0
21.597790	43.7	9.000	N	20.4	16.3	60.0
22.079410	47.5	9.000	N	20.3	12.5	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.790000	34.8	9.000	N	19.8	11.2	46.0
2.018000	35.3	9.000	N	19.9	10.7	46.0
2.242000	34.9	9.000	N	19.8	11.1	46.0
3.806000	34.4	9.000	N	19.9	11.6	46.0
4.034000	35.6	9.000	N	19.9	10.4	46.0
4.254000	34.2	9.000	N	19.9	11.8	46.0

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

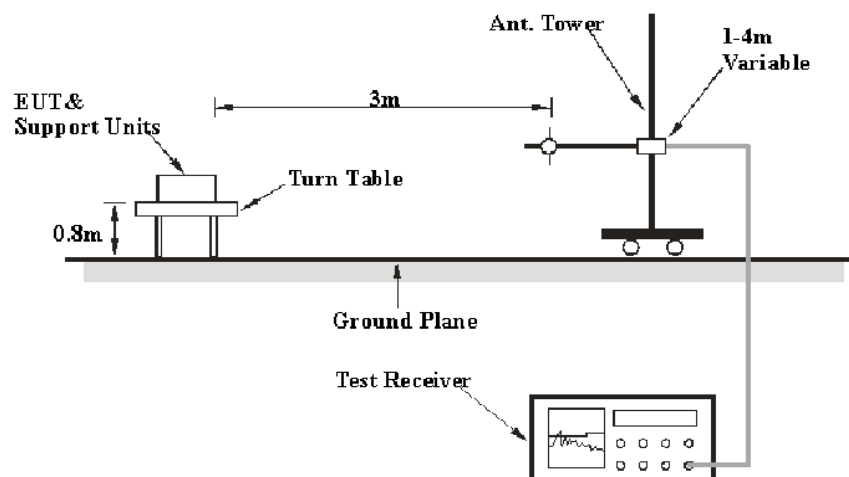
As per FCC Part 15.209

(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 and Kilroy Deng on 2021-01-16 and 2021-01-25.

Test Mode: Wireless Charging (Full Load)

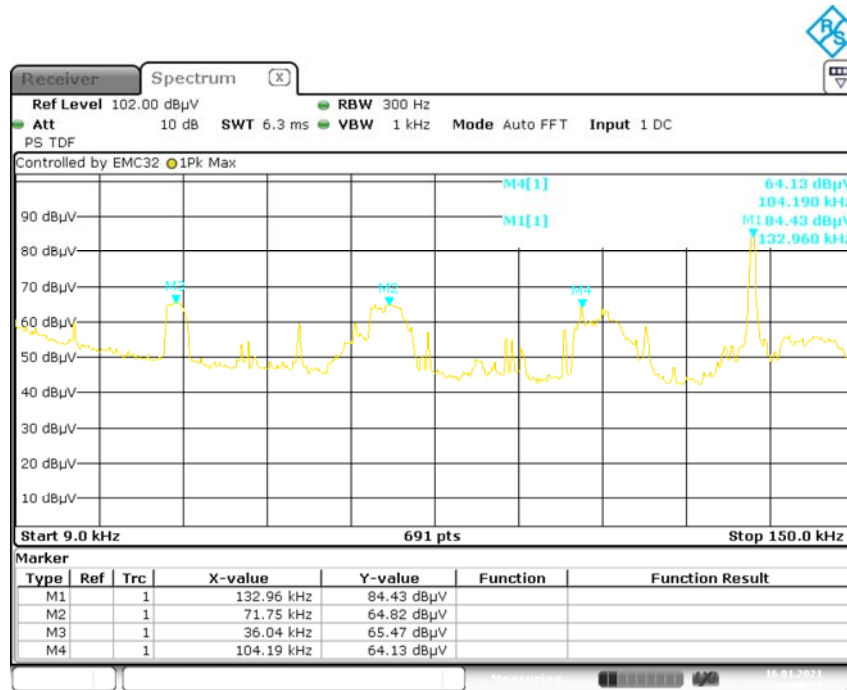
Up-Coil

1) 9 kHz~30MHz:

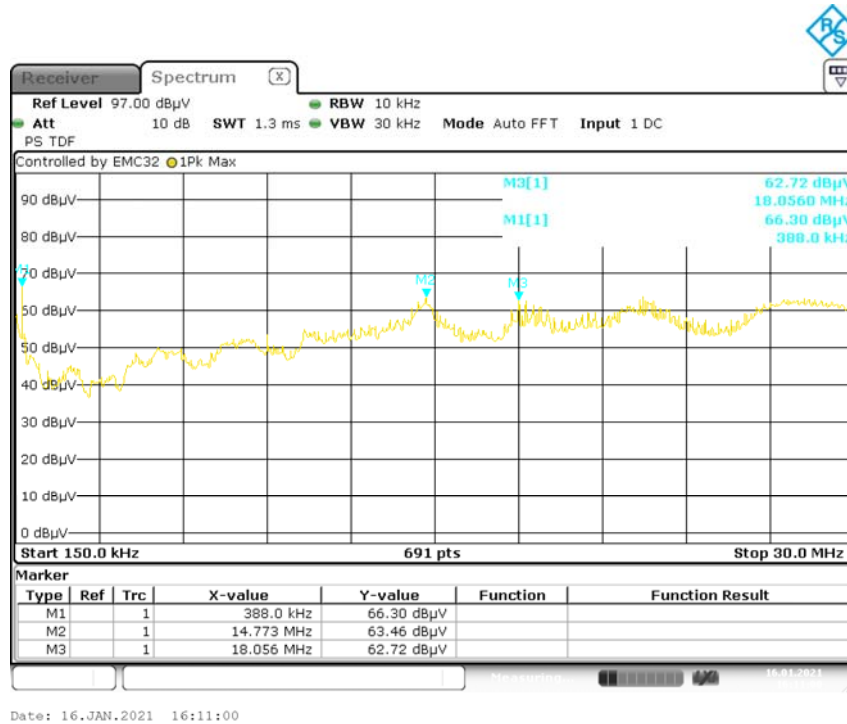
Frequency	Corrected Amplitude (dBμV/m)	PK/QP/Ave.	Turntable	RX Antenna	FCC Part 15.205&15.209		Remark
(MHz)			Degree	Height (m)	Limit (dBμV/m)	Margin (dB)	
0.13296	84.43	PK	215	1.0	105.13	20.70	Fundamental
0.07175	64.82	PK	215	1.0	110.49	45.67	Spurious Emission
0.03604	65.47	PK	215	1.0	116.47	51.00	
0.388	66.30	PK	215	1.0	95.83	29.53	
14.773	63.46	PK	215	1.0	69.54	6.08	

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

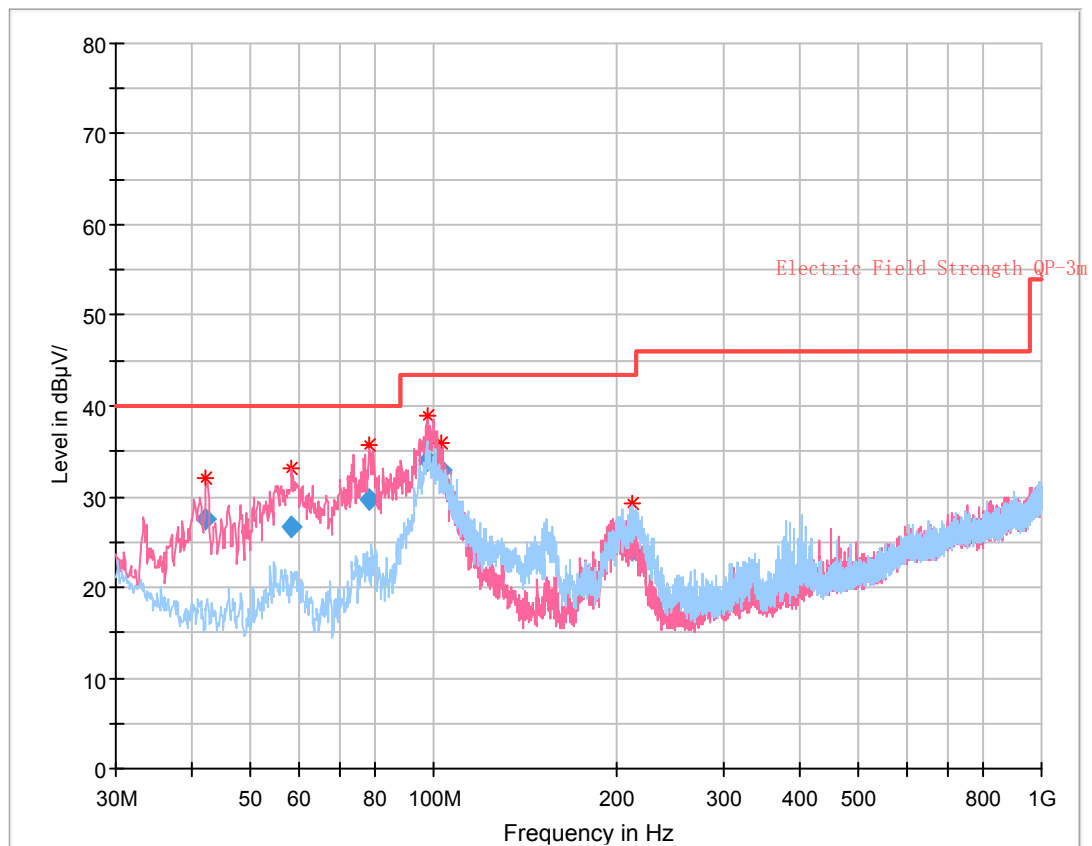
9 kHz-150 kHz



150 kHz-30 MHz



2) 30MHz~1GHz:

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.274125	27.46	40.00	12.54	115.0	V	258.0	-12.2
58.457375	26.64	40.00	13.36	102.0	V	336.0	-17.0
78.081500	29.75	40.00	10.25	141.0	V	191.0	-16.9
98.020625	33.97	43.50	9.53	109.0	V	105.0	-14.3
102.938250	33.01	43.50	10.49	109.0	V	105.0	-13.4
212.691000	23.99	43.50	19.51	153.0	H	246.0	-10.7

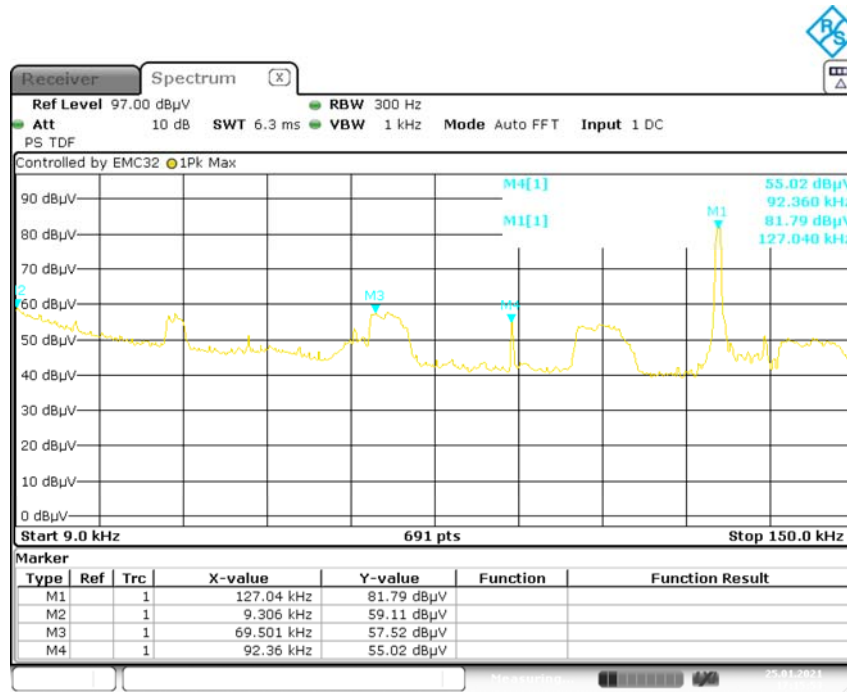
Down-Coil

1) 9 kHz~30MHz:

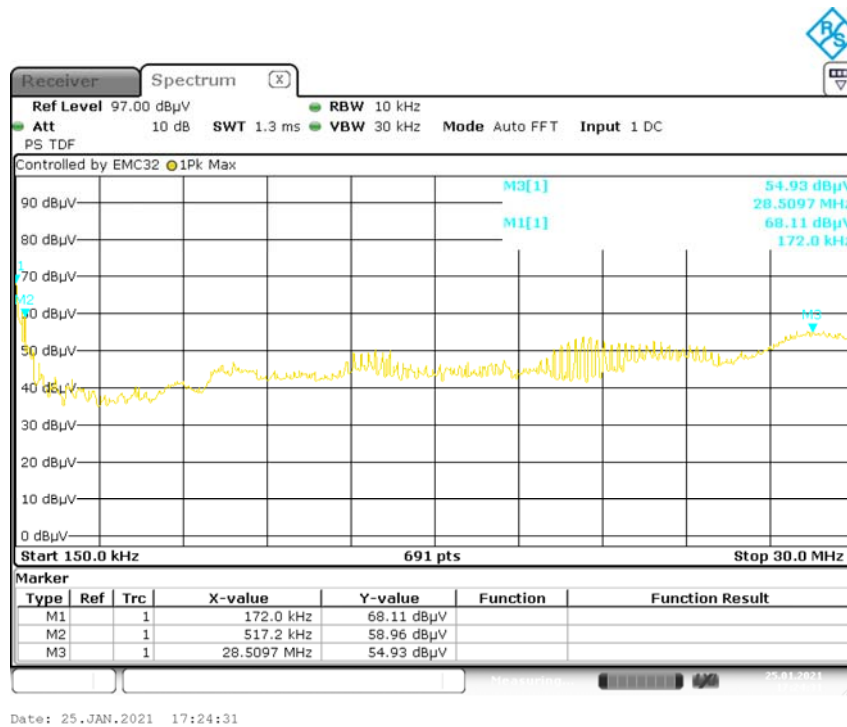
Frequency	Corrected Amplitude	PK/QP/Ave.	Turntable	RX Antenna	FCC Part 15.205&15.209		Remark
(MHz)	(dBμV/m)		Degree	Height (m)	Limit (dBμV/m)	Margin (dB)	
0.009306	59.11	PK	163	1.0	128.23	69.12	Spurious emission
0.069501	57.52	PK	239	1.0	110.71	53.19	
0.092360	55.02	PK	313	1.0	108.31	53.29	
0.172	68.11	PK	347	1.0	102.89	34.78	
0.5172	58.96	PK	218	1.0	73.33	14.37	
28.5097	54.93	PK	155	1.0	69.54	14.61	Fundamental
0.12704	81.79	PK	119	1.0	105.53	23.74	

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

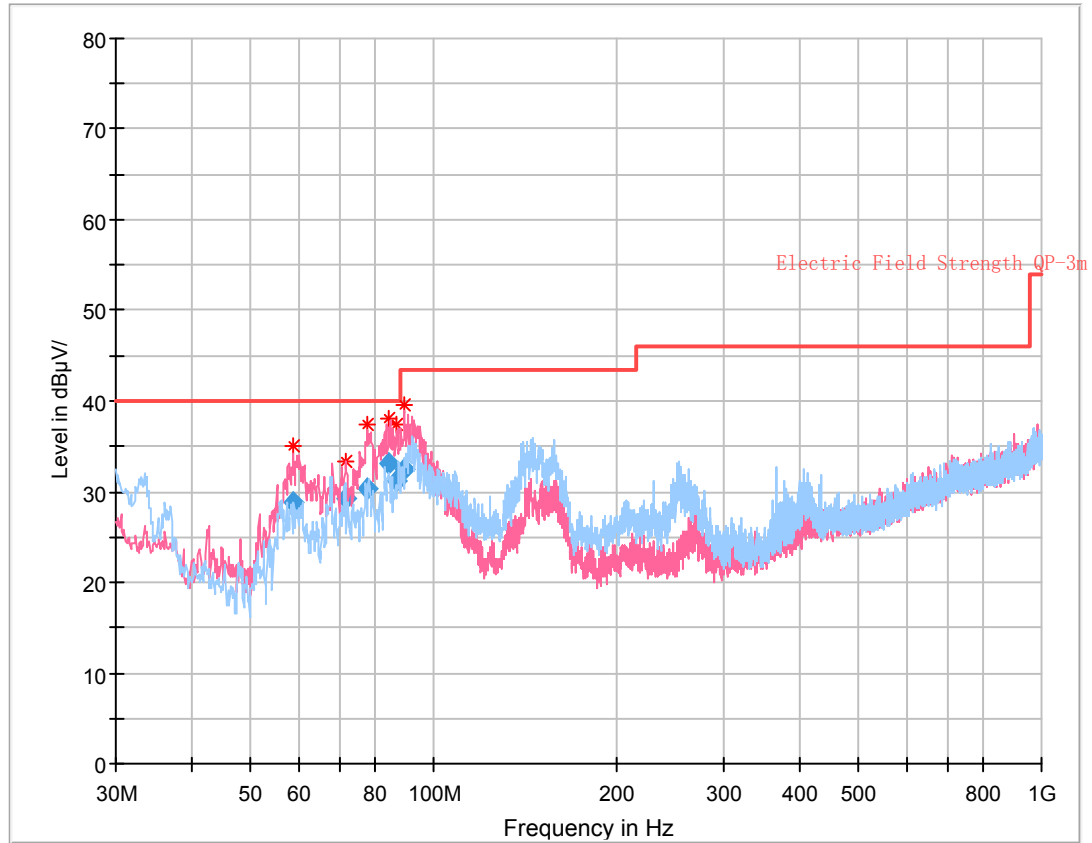
9 kHz-150 kHz



150 kHz-30 MHz



2) 30MHz~1GHz:

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
58.890250	28.77	40.00	11.23	105.0	V	331.0	-10.5
71.924500	29.16	40.00	10.84	106.0	V	0.0	-10.3
77.696000	30.35	40.00	9.65	185.0	V	354.0	-10.6
84.638500	33.08	40.00	6.92	160.0	V	153.0	-10.6
87.087250	31.29	40.00	8.71	160.0	V	156.0	-10.6
89.348250	32.56	43.50	10.94	164.0	V	107.0	-10.6

***** END OF REPORT *****