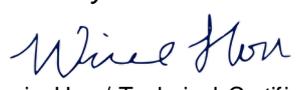


Prüfbericht-Nr.: <i>Test report No.:</i>	60364027 001	Auftrags-Nr.: <i>Order No.:</i>	168157176	Seite 1 von 19 <i>Page 1 of 19</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	19.03.2020	
Auftraggeber: <i>Client:</i>	Dongguan Xuntao Electronic Co., Ltd. No.17 Kuiqing Road, Qinghuang Industrial Zone, Qinghuang Village, Qingxi Town, Dongguan, China			
Prüfgegenstand: <i>Test item:</i>	Magnetic Charging Cable			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	B083KRPBZ8, B083KSJ3CG, B083KQ958D, B083KR71C2 (Trademark: amazonbasics)			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of receipt:</i>	03.04.2020	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002801359-065 A002801359-066			
Prüfzeitraum: <i>Testing period:</i>	08.04.2020 - 17.04.2020			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
22.04.2020  Lin Lin / Senior Project Manager		22.04.2020  Winnie Hou / Technical Certifier		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other: FCC ID: 2ASJKSJ3CG				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n)		4 = ausreichend 5 = mangelhaft N/A = nicht anwendbar N/T = nicht getestet		
Legend: 1 = very good 2 = good 3 = satisfactory P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s)		4 = sufficient 5 = poor 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 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 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 CONDUCTED EMISSIONS

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
TÜV Rheinland (Shenzhen) Co., Ltd.

Spurious Emissions Testing				
Description	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
Signal Analyzer	R&S	FSV 40	101439	21.08.2020
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.08.2020
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
Amplifier	R&S	SCU-18F	180070	20.08.2020
Amplifier	R&S	SCU40A	100475	20.08.2020
Trilog Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VULB9162	193	02.09.2020
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	02.09.2020
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2020
Test software	R&S	V10.40.10-EMC32	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	07.06.2020
Conducted Emissions				
Description	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR3	102428	03.09.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
Attenuator	R&S	ESH2Z31	100300	19.08.2020
EMC32 test software	R&S	EMC32(Ver.10.50.0 1)	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

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz)	± 3.70 dB	± 3.8 dB
	(150kHz to 30MHz)	± 3.30 dB	± 3.4 dB
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A

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 device is a Magnetic Charging Cable.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model number, colour and cable' length are different, see below table for details:

Model	B083KRPBZ8	B083KQ958D	B083KSJ3CG	B083KR71C2
Cable length	3 ft (0.9m)	6 ft (1.8m)	3 ft (0.9m)	6 ft (1.8m)
Color	Black		White	
Power	5V $\overline{=}$ 1.2A			

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	Magnetic Charging Cable
Type Designation	B083KRPBZ8, B083KSJ3CG, B083KQ958D, B083KR71C2
Trademark	amazonbasics
FCC ID	2ASJKSJ3CG
Input Voltage	USB Operated, 5Vdc, 1.2A
Test voltage	120Vac, 60Hz
Technical Specification of WPT	
Operating Frequency	326.5KHz
Modulation	FSK
Antenna Type	Coil Antenna
Antenna number	1
Wireless Charger output power	Max. 5W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- ID Label and Location Info

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 3.2, all tests were performed on model B083KRPBZ8 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	TUVR	AC/DC Adapter 2	SE-002	Output: 5Vdc, 1.2A
Apple Watch	Apple	Apple Watch Series 2	---	---

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 1GHz)

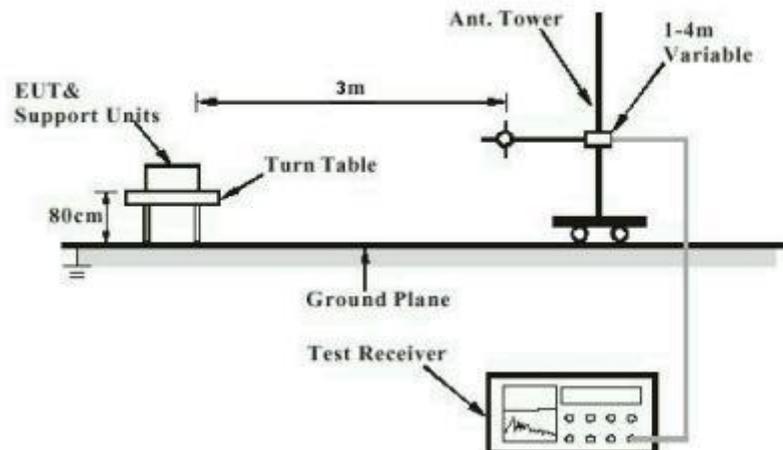
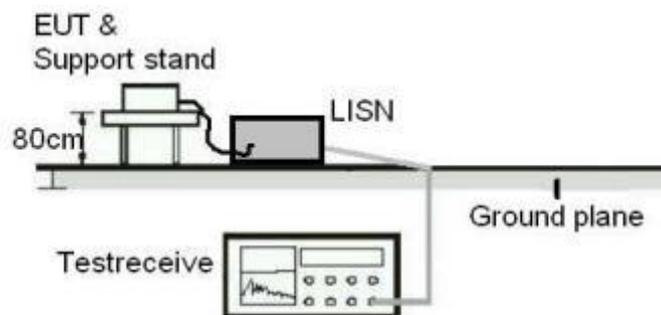


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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 an 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.

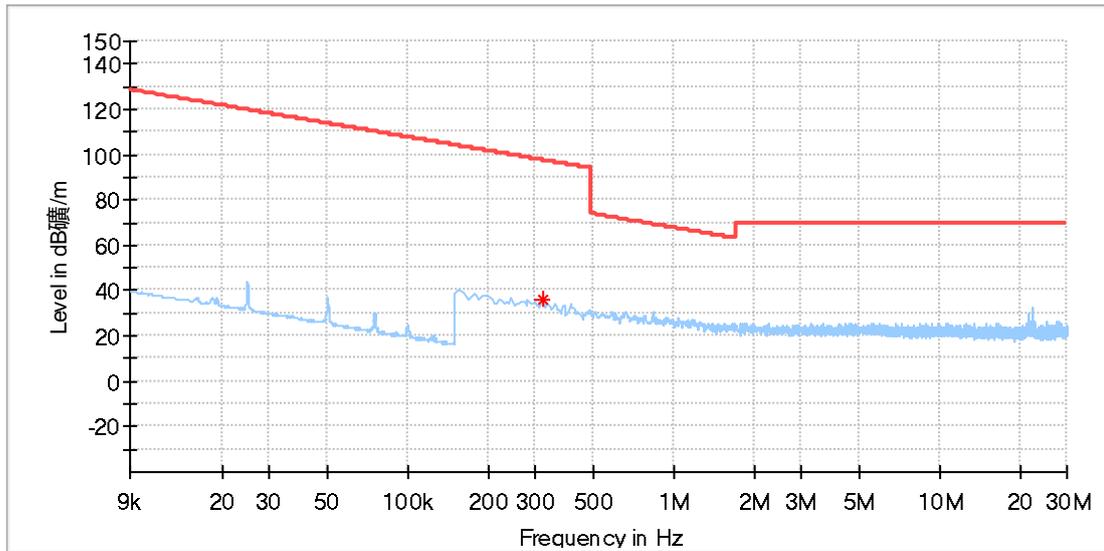
5.1.2 Radiated Spurious Emission

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

Test standard : FCC Part 15.209 & 15.205
Basic standard : ANSIC63.10: 2013
Limits : Refer to 15.209(a)
Kind of test site : 3m Semi-anechoic Chamber

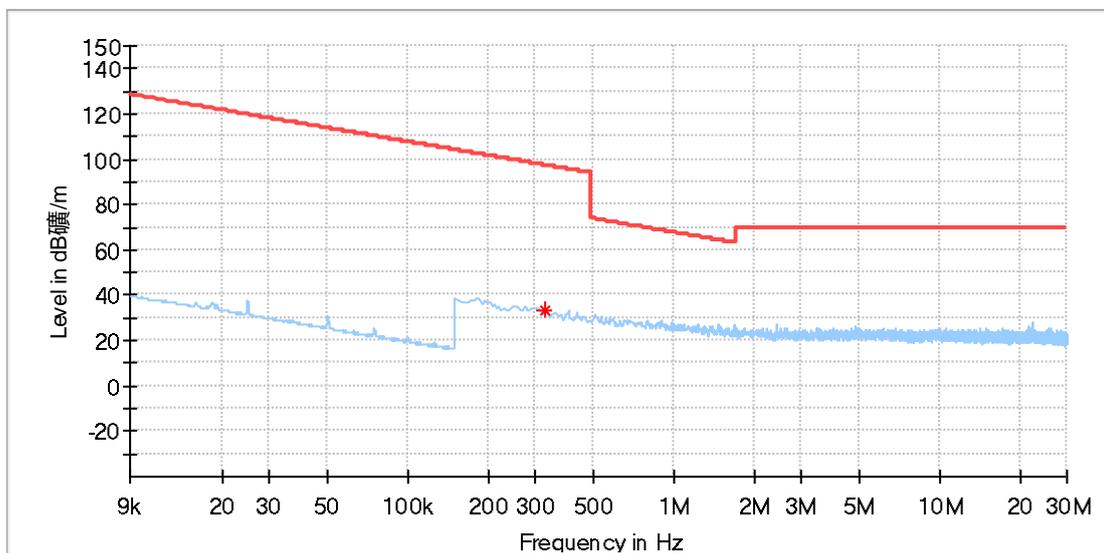
Test Setup

Date of testing : 10.04.2020 ~ 13.04.2020
Input voltage : 120Vac, 60Hz
Operation mode : A
Ambient temperature : 23 °C
Relative humidity : 47 %
Atmospheric pressure : 101 kPa

9KHz – 30MHz
 X axis


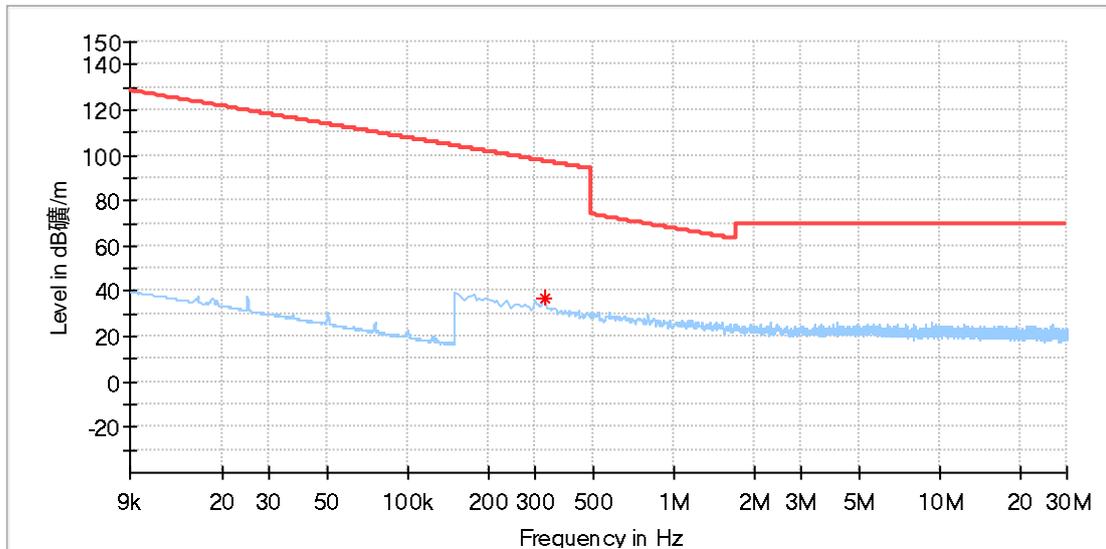
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	Trd Corr. (dB/m)
0.321199	36.08	97.47	61.38	100.0	V	120.0	20.0	0.0	20.0

Y axis

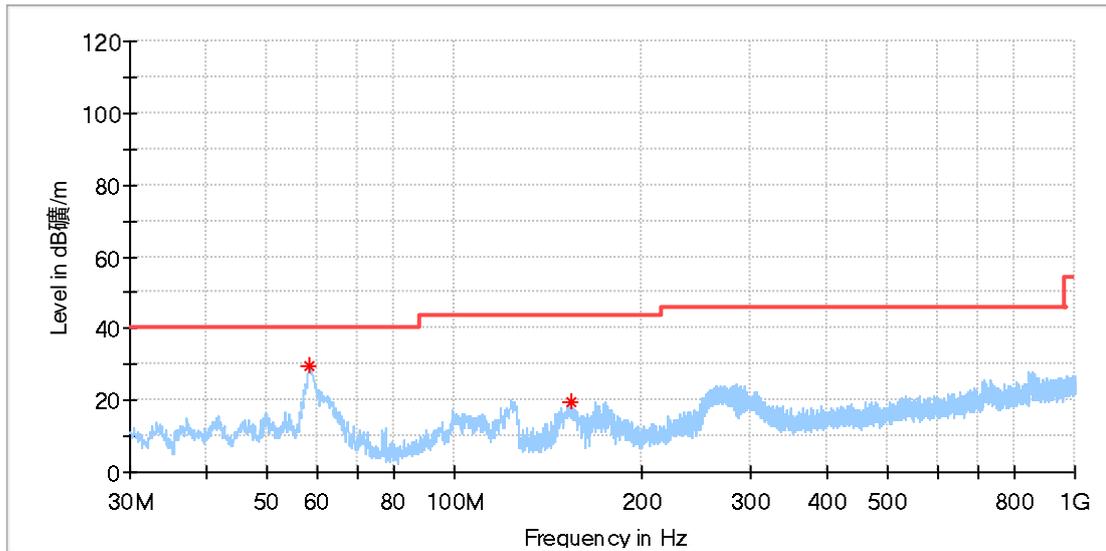


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	Trd Corr. (dB/m)
0.325588	33.02	97.35	64.33	100.0	V	4.0	20.0	0.0	20.0

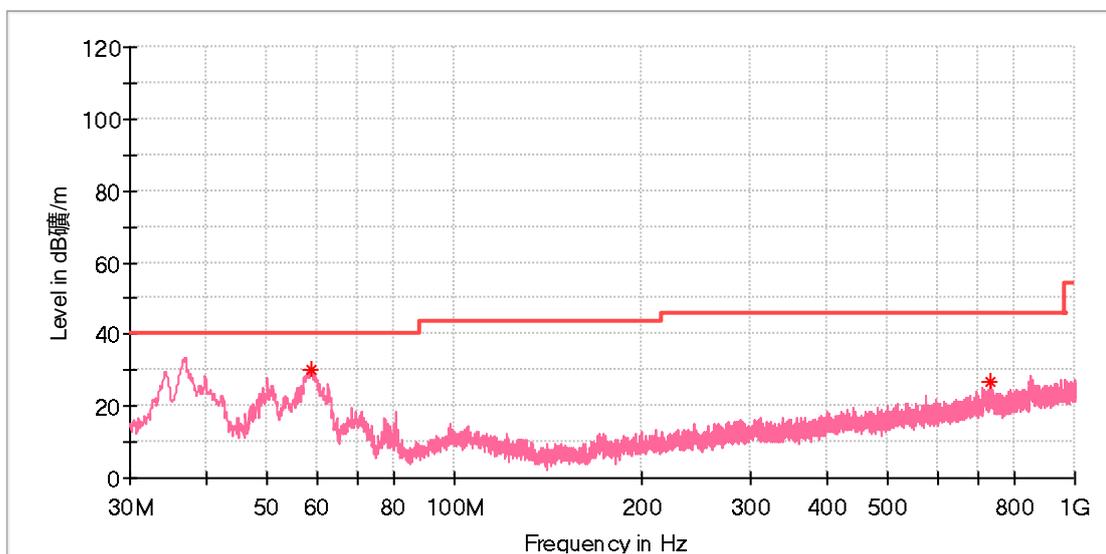
Z axis



Frequency (MHz)	QuasPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	1 rd Corr. (dB/m)
0.325588	37.02 (dBµV/m)	97.35	60.33	100.0	V	153.0	20.0	0.0	20.0

30MHz - 1GHz
Horizontal


Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.372500	29.77	---	40.00	10.23	100.0	H	186.0	-19.1
154.208500	19.77	---	43.50	23.73	100.0	H	341.0	-22.3

Vertical


Frequency (MHz)	QuasiPeak	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.003000	29.96	---	40.00	10.04	100.0	V	53.0	-19.2
728.545500	26.77	---	46.00	19.23	100.0	V	94.0	-7.9

5.1.3 Conducted emissions

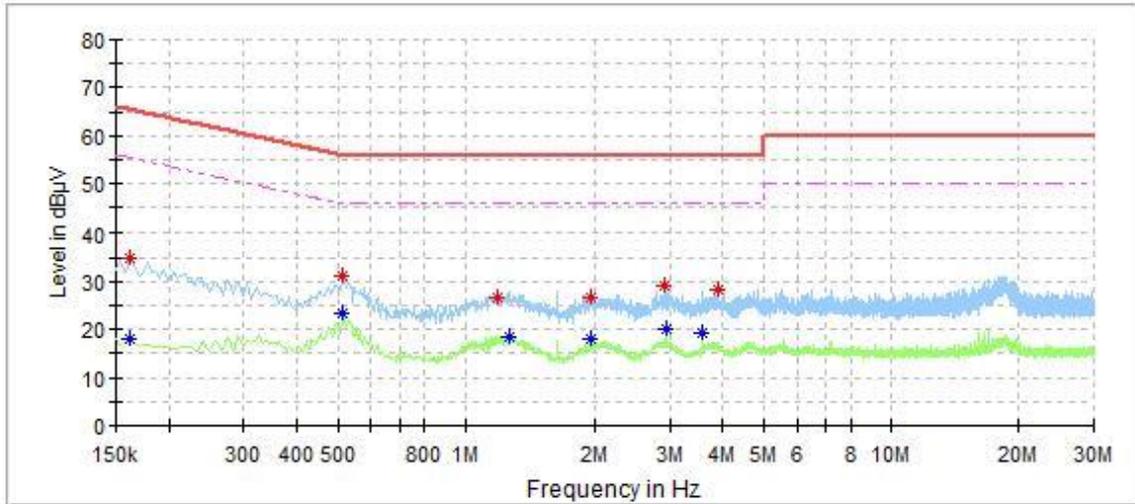
RESULT:**Pass****Test Specification**

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

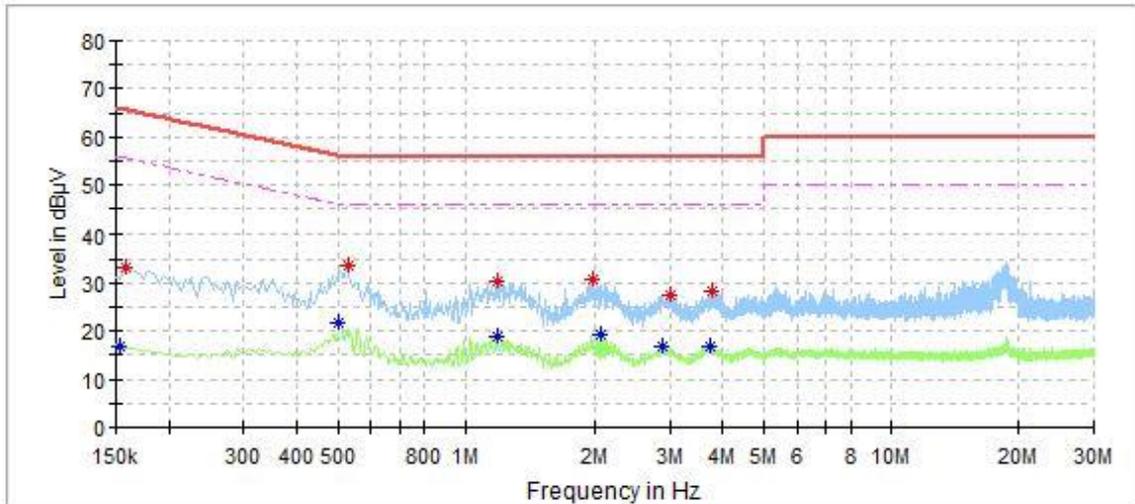
Test Setup

Date of testing	:	15.04.2020
Input voltage	:	120Vac, 60Hz
Operation mode	:	A
Ambient temperature	:	23 °C
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

Refer to following test plots for details of test result.

L Line


Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162000	---	17.95	55.36	37.41	L1	9.6
0.162000	34.89	---	65.36	30.47	L1	9.6
0.516000	31.21	---	56.00	24.79	L1	9.7
0.516000	---	23.25	46.00	22.75	L1	9.7
1.196000	26.80	---	56.00	29.20	L1	9.7
1.264000	---	18.59	46.00	27.41	L1	9.7
1.956000	---	18.05	46.00	27.95	L1	9.7
1.960000	26.82	---	56.00	29.18	L1	9.7
2.904000	29.32	---	56.00	26.68	L1	9.8
2.940000	---	20.00	46.00	26.00	L1	9.8
3.592000	---	19.46	46.00	26.54	L1	9.8
3.920000	28.39	---	56.00	27.61	L1	9.8

N Line


Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	16.73	55.78	39.05	N	9.6
0.158000	33.29	---	65.57	32.28	N	9.6
0.504000	---	21.66	46.00	24.34	N	9.7
0.528000	33.77	---	56.00	22.23	N	9.7
1.188000	---	18.94	46.00	27.06	N	9.7
1.188000	30.27	---	56.00	25.73	N	9.7
1.968000	30.75	---	56.00	25.25	N	9.7
2.060000	---	19.36	46.00	26.64	N	9.7
2.900000	---	17.01	46.00	28.99	N	9.8
3.012000	27.54	---	56.00	28.46	N	9.8
3.744000	---	16.82	46.00	29.18	N	9.8
3.772000	28.25	---	56.00	27.75	N	9.8

6 Photographs of the Test Set-Up

Refer to test photo document.

7 List of Tables

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