

Limitless Innovations, Inc

TEST REPORT

SCOPE OF WORK

EMC TESTING—CRGRD-X5-E3005-XXX

REPORT NUMBER

180822013GZU-001

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TEST REPORT

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Manufacturing Site : Same as applicant
Intertek Report No: 180822013GZU-001
FCC ID: 2AQ9A-E3005

Test standards

47 CFR PART 15 Subpart C:2017

Sample Description

Product : ChargeHub X5 Elite
Model No. : CRGRD-X5-E3005-XXX
Electrical Rating : Input: 100-240Vac, 50/60Hz 1500mA, Max
4×USB Output: 5Vdc, 2.4A Max current per port/4.4A Max Total
Output Current
1× Type-C Output: 5Vdc, 3A or 9Vdc, 3A or 12Vdc, 2.25A
Wireless output: 5Vdc, 1A
Serial No. : Not Labeled
Date Received : 22 August 2018
Date Test : 22 August 2018-28 September 2018
Conducted

Prepared and Checked By

Approved By:



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TEST REPORT

CONTENT

TEST REPORT	1
CONTENT	3
1.0 TEST RESULT SUMMARY	4
2.0 GENERAL DESCRIPTION	5
2.1 PRODUCT DESCRIPTION	5
2.2 RELATED SUBMITTAL(S) GRANTS	5
2.3 TEST METHODOLOGY	5
2.4 TEST FACILITY	5
3.0 SYSTEM TEST CONFIGURATION	6
3.1 JUSTIFICATION	6
3.2 EUT EXERCISING SOFTWARE	7
3.3 SPECIAL ACCESSORIES	7
3.4 MEASUREMENT UNCERTAINTY	7
3.5 EQUIPMENT MODIFICATION	8
3.6 SUPPORT EQUIPMENT LIST AND DESCRIPTION	8
4.0 RADIATED EMISSION	9
5.0 CONDUCTED EMISSION TEST	18
6.0 TEST EQUIPMENT LIST	21

TEST REPORT

1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Test Requirement	Test Method	Result
Conducted disturbance voltage at mains ports	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Radiated Emission	FCC PART 15 C section 15.209	ANSI C63.10: Clause 6.4 & 6.5	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

TEST REPORT

2.0 General Description

2.1 Product Description

Operating Frequency	111-148KHz
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi
Power Supply:	Input: 100-240Vac, 50/60Hz 1500mA, Max 4×USB Output: 5Vdc, 2.4A Max current per port/4.4A Max Total Output Current 1× Type-C Output: 5Vdc, 3A or 9Vdc, 3A or 12Vdc, 2.25A Wireless output: 5Vdc, 1A
Power cord:	1.2m x 2 wires unscreened cable

2.2 Related Submittal(s) Grants

This is an application for certification of:
DCD-Part 15 Low Power Transmitter below 1705kHz

Remaining portions are subject to the following procedures:
The USB Charging function: FCC SDOC requirement (Refer to report 180822013GZU-003).

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All tests were performed at:
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China
Except Conducted Emissions was performed at:

TEST REPORT

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City,
GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. It was powered by AC 125V/60Hz supply.

When below 30MHz, the measurement antenna was positioned with its plane perpendicular to the ground at the specified distance. When perpendicular to the ground plane, the lowest height of the magnetic antenna was 1 m above the ground and was positioned at 3m distance from the EUT. During testing the loop antenna was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

When above 30MHz, the antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

TEST REPORT

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

N/A

3.3 Special Accessories

N/A

3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission (9 kHz-150 kHz)	2.51 dB
2	Conduction Emission (150 kHz-30 MHz)	2.69 dB
3	Disturbance Power (30 MHz-300 MHz)	3.21 dB
4	Radiated Emission (30 MHz-1 GHz)	4.79 dB
5	Radiated Emission (1 GHz-6 GHz)	5.02 dB
6	Radiated Emission (6 GHz-18 GHz)	5.17 dB

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

TEST REPORT

3.5 Equipment Modification

Any modifications installed previous to testing by LIMITLESS INNOVATIONS INC will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
Mobile phone	IPhone 8	--	Intertek

Remark: the iphone 8 was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based 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 evaluated respectively

Pre-test mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	Mobile phone is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously.
	CH: Middle	
	CH: High	

For AC port Conducted Emission:

Pre-test all modes listed above, find the worst case as: wireless charging at low channel for Mobile at 1% battery power with USB charging (full load).

For Radiated Emission:

Pre-test all modes listed above, find the worst case as: wireless charging at low channel for Mobile at 1% battery power with USB charging (full load).

TEST REPORT

4.0 Radiated Emission

Test Requirement:

FCC PART 15 C section 15.209 (a)(f)

§ 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 (dBμV/m @ 3m)
0.009-0.490	128-93.8
0.490-1.705	73.8-62.9
1.705-30.0	69.5
30-88	40
88-216	43.5
216-960	46
Above 960	54

(f) In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device.

Test Method:

ANSI C63.10: Clause 6.4 and 6.5.

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible configuration.

Test site:

Measurement Distance: 3m (Semi-Anechoic Chamber)

Detector:

Quasi-Peak detector:

RBW=200 Hz for 9 kHz to 150 kHz

RBW=9 kHz for 150 kHz to 30 MHz

TEST REPORT

RBW=120 kHz for 30 MHz to 1GHz
Sweep = auto
Trace = max hold

Field Strength Calculation: The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below:

$$FS = RA + AF + CF - AG + PD + AV$$

$$FS = RA + \text{Correct Factor} + AV$$

FS = Field Strength in dBμV/m

Where: RA = Receiver Amplitude (including preamplifier) in dBμV
AF = Antenna Factor in dB
CF = Cable Attenuation Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB
Correct Factor = AF + CF - AG + PD

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$\text{Correct Factor} = 7.4 + 1.6 - 29.0 + 0 = -20 \text{ dB}$$

$$FS = 62 + (-20) + (-10) = 32 \text{ dB}\mu\text{V/m}$$

TEST REPORT

Section 15.205 Restricted bands of operation.

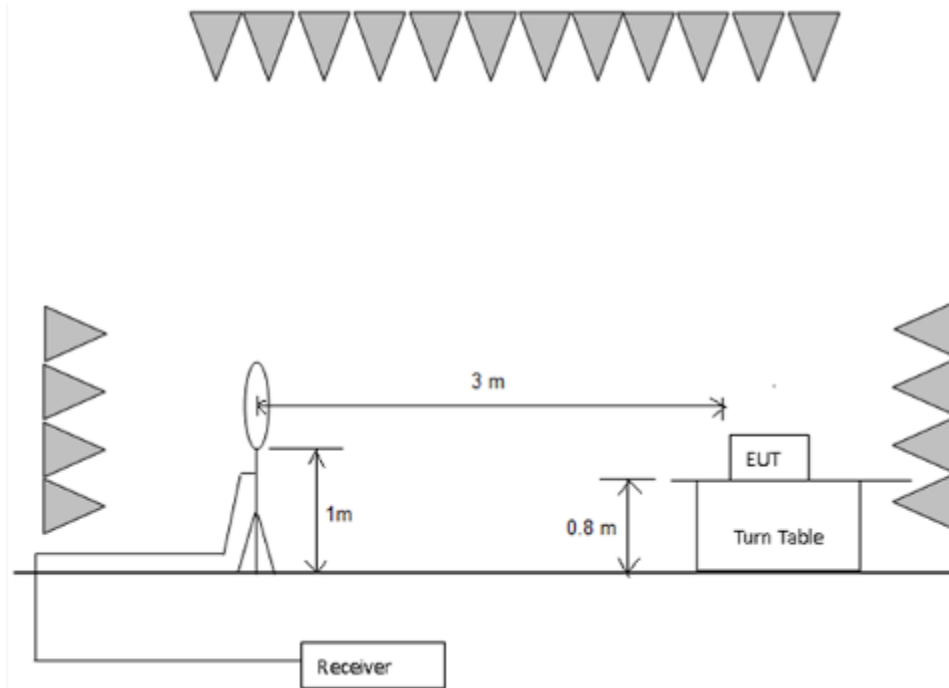
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in 15.209.

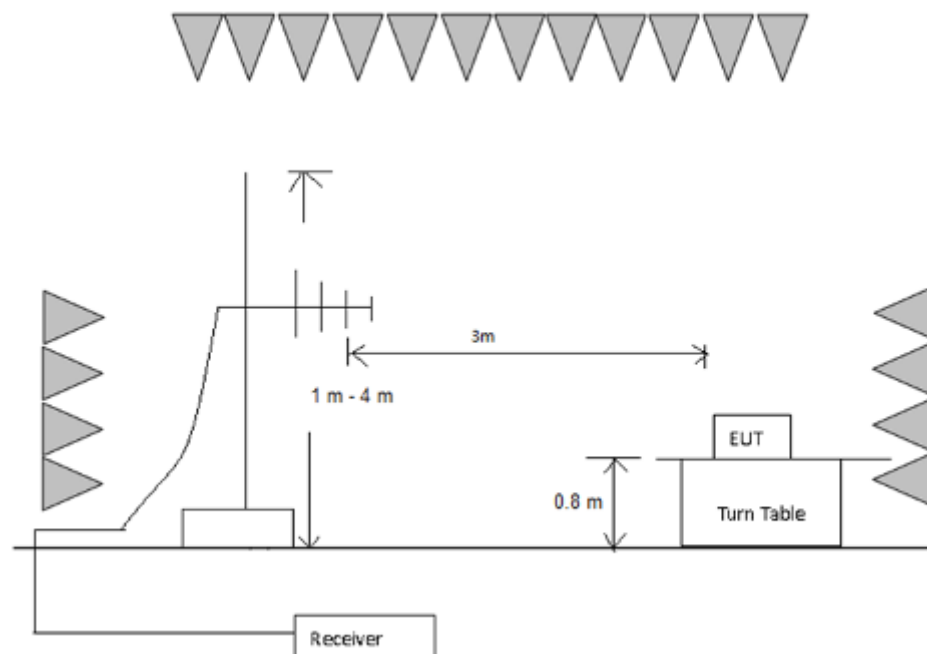
TEST REPORT

Test Configuration:

1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



TEST REPORT

Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3) The receiver was scanned from 9 kHz to 1 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

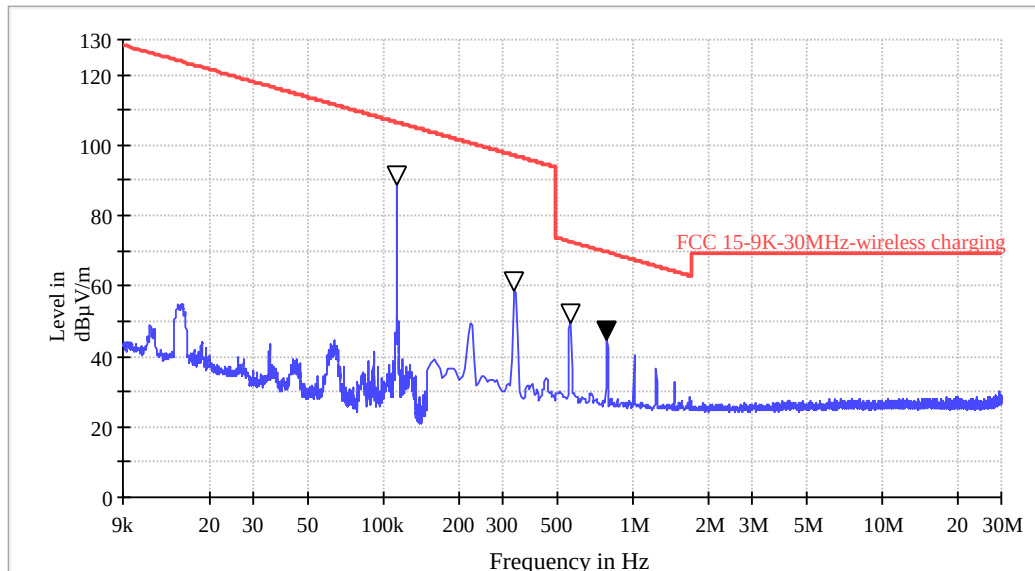
Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Refer to Clause 4 Test Equipment List for details.

TEST REPORT

Radiated Emissions (Below 30 MHz)

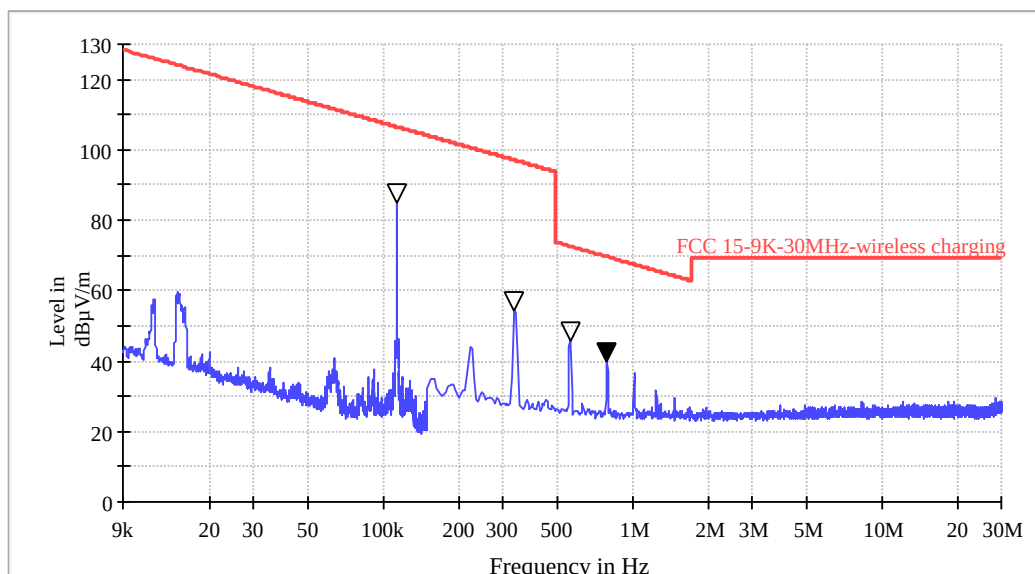
Vertical:



Frequency (MHz)	Read Level (dBμV)	Correction Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
0.113	68.7	20.5	89.2	106.5	17.3	PK
0.335	38.5	20.5	59.0	97.1	38.1	PK
0.562	29.3	20.8	50.1	72.6	22.5	PK
0.788	24.2	20.7	44.9	69.6	24.7	PK

TEST REPORT

Horizontal:



Frequency (MHz)	Read Level (dBμV)	Correction Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
0.113	64.7	20.5	85.2	106.5	21.3	PK
0.335	34.4	20.5	54.9	97.1	42.2	PK
0.562	25.3	20.8	46.1	72.6	26.5	PK
0.788	19.4	20.7	40.1	69.6	29.5	PK

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.

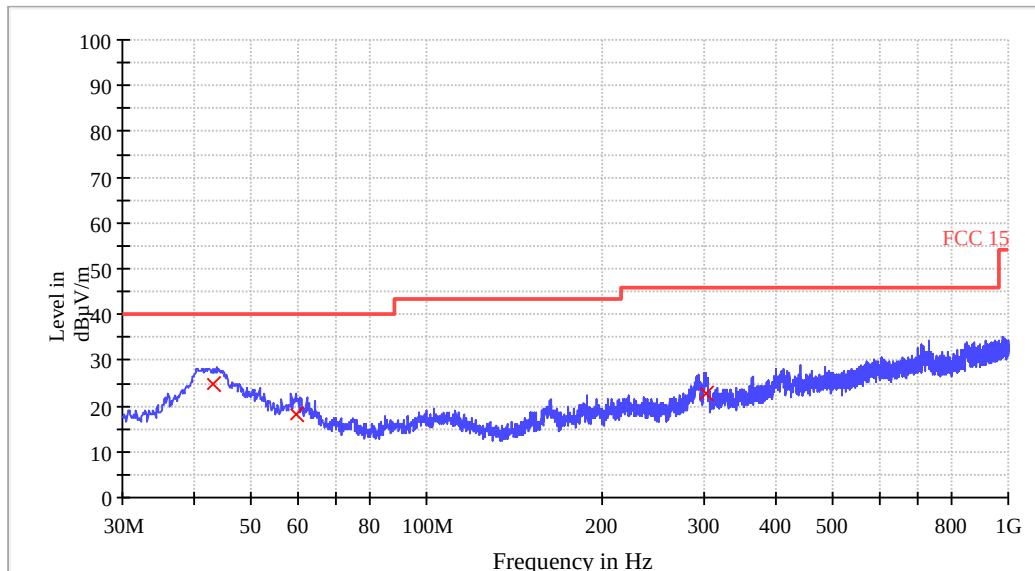
Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Level (dBμV/m) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit (dBμV/m) – Level (dBμV/m)
4. Only record the date closed to limit
5. The emission is worst case on Vertical
6. When Peak emission level was below AV or QP limit, the AV and QP emission level did not be recorded.

TEST REPORT

30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:



Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)	Limit (dBμV/m)
42.84	11.1	13.7	24.8	40.0
59.48	5.4	12.8	18.2	40.0
301.72	7.7	15.0	22.7	46.0

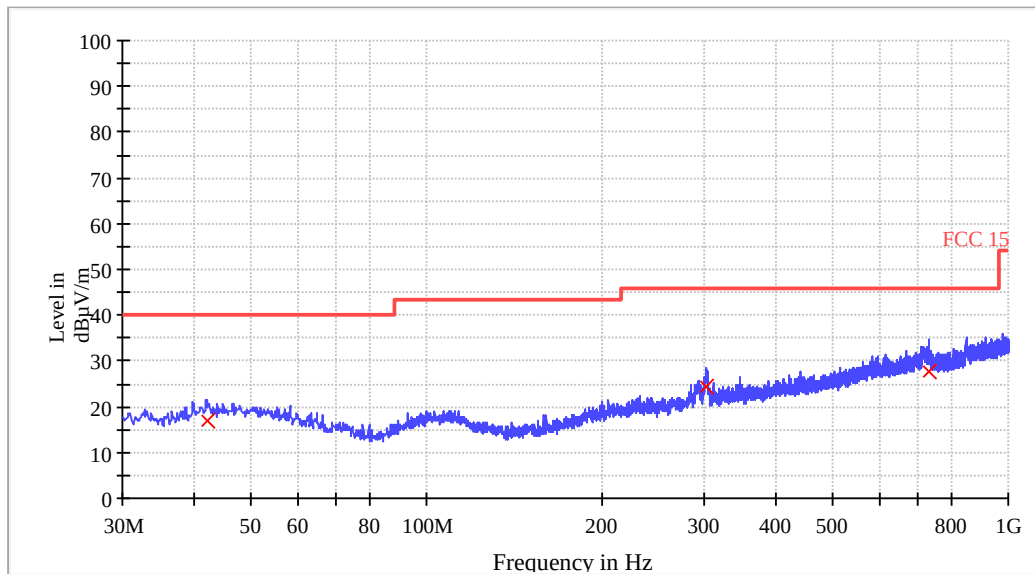
Remark:

Final Test Level = Receiver Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Loss.

TEST REPORT

Horizontal:



Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)	Limit (dBμV/m)
41.88	3.5	13.6	17.1	40.0
303.28	9.5	15.0	24.5	46.0
728.76	4.6	23.3	27.9	46.0

Remark:

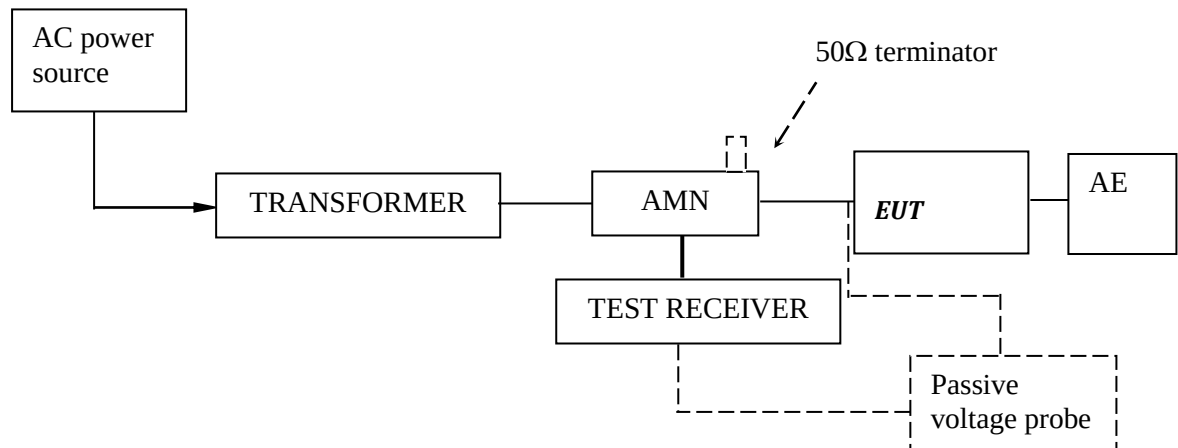
Final Test Level = Receiver Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Loss.

TEST REPORT

5.0 Conducted Emission Test

Test Configuration:



Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance. Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

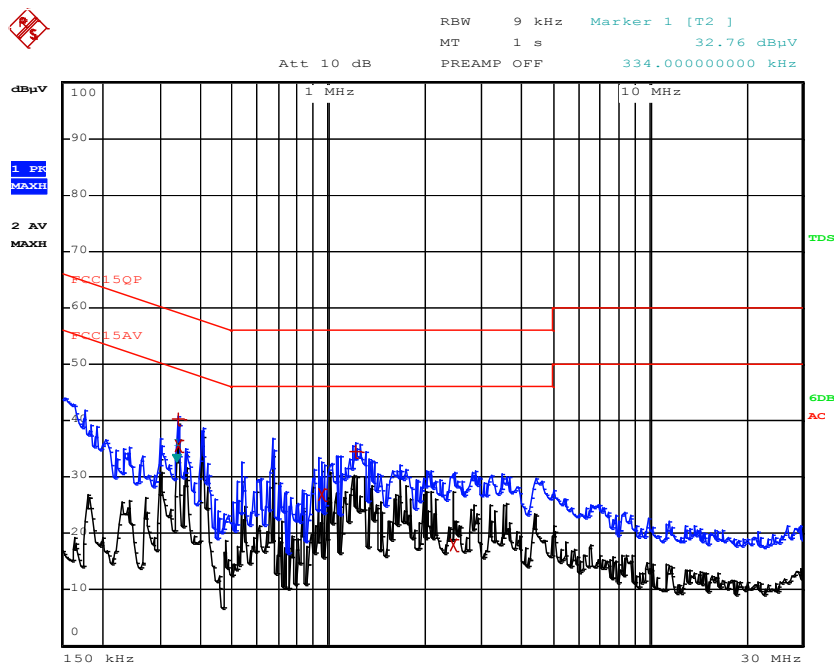
The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

TEST REPORT

Test Data and Curve

At main terminal: Pass

Tested Wire: Live



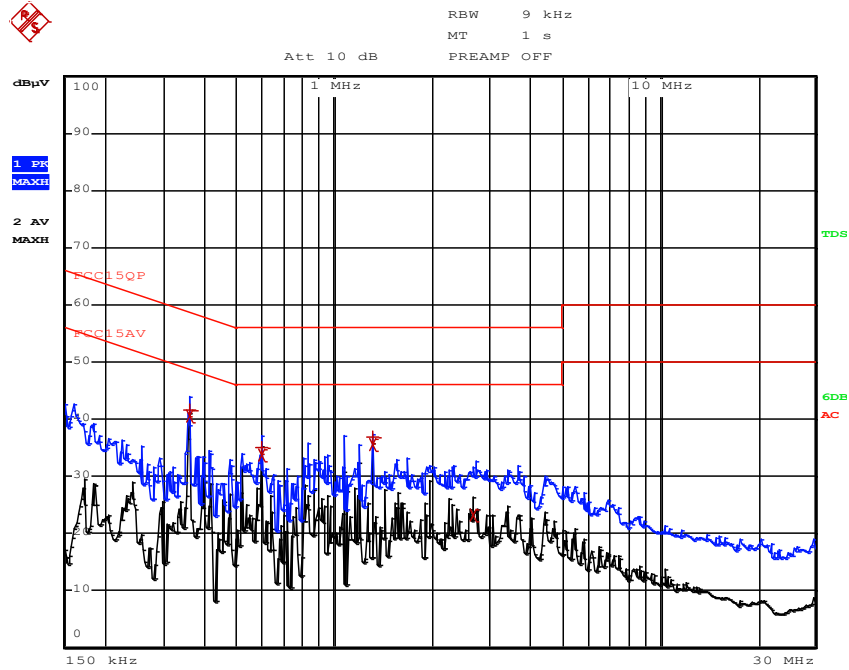
EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15QP			
Trace2:	FCC15AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Quasi Peak	338 kHz	40.23 L1	-19.02	
2 Average	338 kHz	35.59 L1	-13.65	
2 Average	954 kHz	26.92 L1	-19.07	
1 Quasi Peak	1.222 MHz	34.39 L1	-21.60	
2 Average	2.466 MHz	17.90 L1	-28.10	

Remark:

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Neutral



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15QP			
Trace2:	FCC15AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	358 kHz	41.62 L1		-17.14
2 Average	358 kHz	40.50 L1		-8.26
1 Quasi Peak	598 kHz	35.10 L1		-20.89
2 Average	598 kHz	33.67 L1		-12.32
1 Quasi Peak	1.31 MHz	36.76 L1		-19.24
2 Average	1.31 MHz	35.49 L1		-10.50
2 Average	2.666 MHz	23.29 L1		-22.70

Remark:

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

6.0 Test Equipment List

Conducted Disturbance-Mains Terminal(1)

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (DD-MM-YYYY)	Calibration Interval
EM080-05	EMI receiver	ESCI	R&S	18/07/2019	1Y
EM006-05	LISN	ENV216	R&S	06/06/2019	1Y
SA047-112	Digital Temperature-Humidity Recorder	RS210	YIJIE	03/11/2018	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	07/01/2019	1Y

Radiated Disturbance (9 kHz-30 MHz)

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (DD-MM-YYYY)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m3	ETS- LINDGREN	06/05/2019	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	11/03/2019	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	14/06/2019	1Y
EM031-02-01	Coaxial cable	/	R&S	06/05/2019	1Y
SA047-118	Digital Temperature-Humidity Recorder	RS210	YIJIE	17/7/2019	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A

Radiated Disturbance (30 MHz-1 GHz)

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (DD-MM-YYYY)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m3	ETS- LINDGREN	6/05/2019	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	11/03/2019	1Y
EM033-01	TRILOG Super Broadband test Antenna (30 MHz-3 GHz)	VULB 9163	SCHWARZBEC K	20/09/2019	1Y
EM031-02-01	Coaxial cable	/	R&S	6/05/2019	1Y
EM036-01	Common-mode absorbing clamp	CMAD 20B	TESEQ	15/07/2019	1Y
SA047-118	Digital Temperature-Humidity Recorder	RS210	YIJIE	17/07/2019	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A

*****End of the test report*****