

UMAGE Inc.

TEST REPORT

SCOPE OF WORK

EMCTESTING-4185, 4186

REPORT NUMBER

211227067GZU-001

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Applicant Name & : UMAGE Inc.

Address 185 Wythe Ave 2.fl.

Manufacturing Site : Same as applicant
Intertek Report No: 211227067GZU-001
FCC ID: 2A33B-41854186

Test standards

47 CFR PART 15 Subpart C:2020

Sample Description

Product : wireless charger Model No. : 4185, 4186

Electrical Rating : Micro-USB,5V/2A,9V/1.67A 10W

Serial No. : Not Labeled

Date Received : 27 December 2021

Date Test : 26 February 2022-03 March 2022

Conducted

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Prepared and Checked By

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Approved By:

Engineer Project Engineer

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1.0 TEST RESULT SUMMARY

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
20dB Bandwidth	FCC PART 15 C section 15.215	FCC PART 15 C section 15.215	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered. Model 4185 and Model 4186 are just different colors.



2.0 General Description

2.1 Product Description

Operating Frequency 113-146KHz

Type of Modulation: ASK

Antenna Type Inductive loop coil antenna

Antenna gain: 0 dBi as declared by applicant

Power Supply: Micro-USB,5V/2A,9V/1.67A 10W

Power cord: wires unscreened cable

2.2 Related Submittal(s) Grants

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

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:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China Except Conducted Emissions was performed at:

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, 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 120V/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 $^{\circ}$ to 360 $^{\circ}$ 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	0 GHz 10 th harmonic of highest fundamental frequency or 40 GHz, whichever is lower	
At or above 10 GHz to below 30 GHz	5 th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower	
At or above 30 GHz	5 th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified	

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	Conducted Emission (9 kHz-150 kHz)	2.79 dB
2	Conducted Emission (150 kHz-30 MHz)	2.55 dB
3	Disturbance Power (30 MHz-300 MHz)	3.04 dB
4	Radiated Emission (9 kHz-30 MHz)	4.24 dB
5	Radiated Emission (30 MHz-1 GHz)	4.80 dB
6	Radiated Emission (1 GHz-6 GHz)	4.97 dB
7	Radiated Emission (6 GHz-18 GHz)	4.89 dB
8	20 dB Bandwidth	2.3%

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

3.5 Equipment Modification

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

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



3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Description	Manufacturer	Model No.	SN/Version	Supplied by
Iphone8	apple	Iphone8	100-240~, 50/60Hz, 0.5A	Intertek
Adapter	apple	A1401	100-240~, 50/60Hz, 0.5A	Intertek

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
apple extension cord	apple -01	apple	1.0 m(unshielded)	Intertek

Remark: Iphone8 client 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			
CH: Low Ipho		Iphone8 is charging at 1% battery power,		
Charging Mode	CH: Middle 50% and 99% battery power			
	CH: High respectively, keep transmitti			
		continuously.		

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).



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 (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

Field strength limits (below 30MHz) at 30 m and 300 m changed to 3 m by formula:

Limit3m(dB μ V)=Limit30m(dB μ V)+40*log(30m/3m) Limit3m(dB μ V)=Limit300m(dB μ V)+40*log(300m/3m)

Frequency (MHz)	Field Strength (dBµV/m @ 3m)
0.009-0.490	128-93.8
0.009-0.490	120-93.0
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=2 KHz for 9 kHz to 150 kHz RBW=9 kHz for 150 kHz to 30 MHz 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 + Correct Factor + AV FS = Field Strength in dBμV/m

Where: RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

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 $62.0\,dB\mu V$ 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 $32\,dB\mu V/m$.

 $RA = 62.0 \, dB\mu V$ $AF = 7.4 \, dB$ $CF = 1.6 \, dB$ $AG = 29.0 \, dB$ $PD = 0 \, dB$

AV = -10 dB

Correct Factor = $7.4 + 1.6 - 29.0 + 0 = -20 \, dB$

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



Section 15.205 Restricted bands of operation.

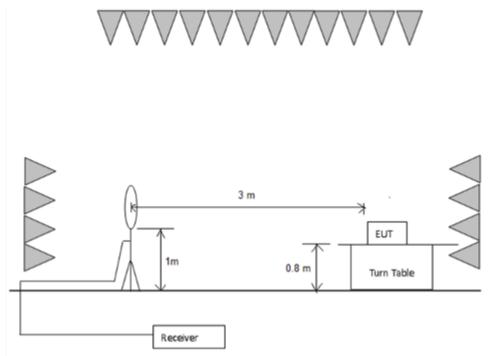
MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5

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



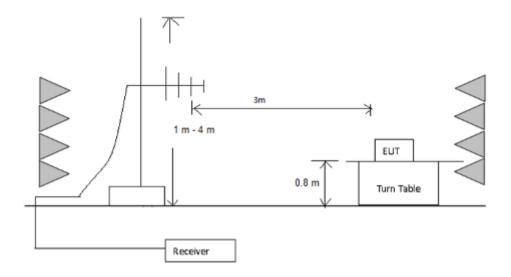
Test Configuration:

1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:







Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The lowest height 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:

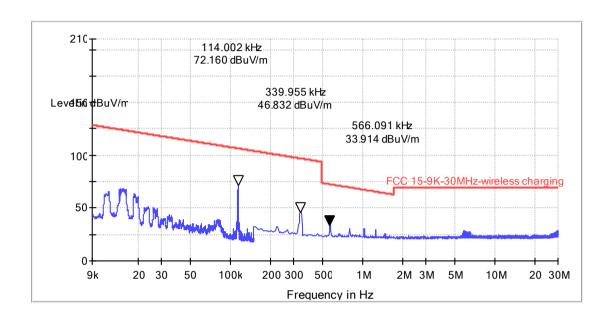
3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna (30 MHz-3 GHz) (RX), Refer to Clause 4 Test Equipment List for details.



Worst case 9V/1.67A

Radiated Emissions (Below 30 MHz)

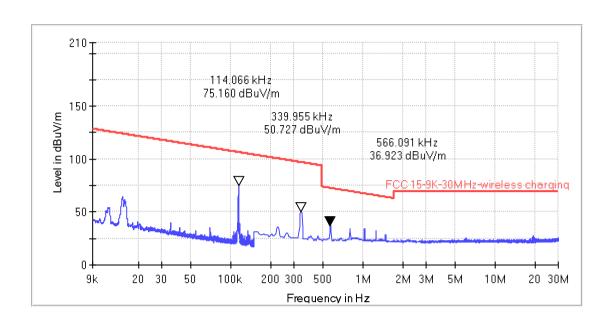
Vertical:



Frequency (MHz)	Read Level (dBµV)	Correction Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
0.114	52.1	20.1	72.2	106.5	34.3	PK
0.340	26.4	20.4	46.8	97.0	50.2	PK
0.566	13.2	20.7	33.9	72.5	38.6	PK



Horizontal:



Frequency (MHz)	Read Level (dBµV)	Correction Factor (dB)	Level (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Detector
0.114	55.1	20.1	75.2	106.5	31.3	PK
0.340	30.3	20.4	50.7	97.0	46.3	PK
0.566	16.2	20.7	36.9	72.5	35.6	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:

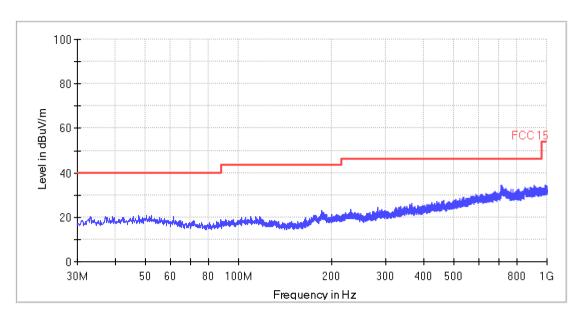
- 1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
- 2. Level $(dB\mu V/m) = Corr. (dB) + Read Level (dB\mu V)$
- 3. Margin (dB) = Limit (dB μ V/m) –Level (dB μ V/m)
- 4. Only record the date closed to limit
- 5. When Peak emission level was below AV or QP limit, the AV and QP emission level did not be recorded.



Worst case 9V/1.67A

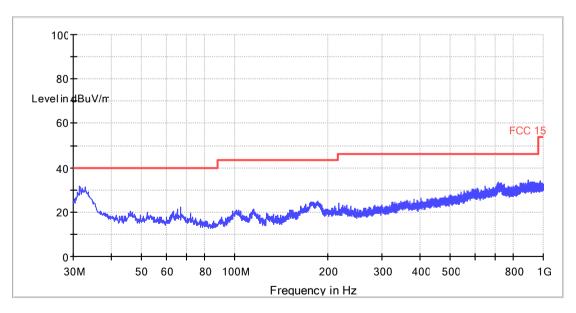
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Vertical:



All emission levels are more than 6 dB below the limit.

Horizontal:



All emission levels are more than 6 dB below the limit.



5.0 Occupied Bandwidth

Test Method: FCC PART 15 C section 15.215

Test Status: Test in transmitting mode.

Requirements: Bandwidth may otherwise be specified in the specific rule section

under which the equipment operates, is contained within the frequency band designated in the rule section under which the

equipment is operated.

Method of measurement: The useful radiated emission from the EUT was detected by the

spectrum analyzer with peak detector. Record the 99%

bandwidth of the main frequency.

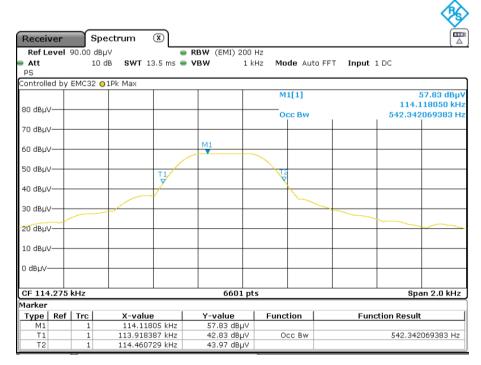
Used Test Equipment List

Spectrum Analyzer. Refer to Clause 7 Test Equipment List for details.

Test result:

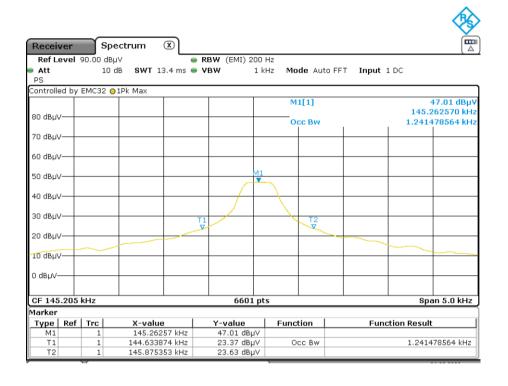
Test Channel	bandwidth	Limit
Lowest channel (114.3kHz)	0.542 kHz	,
Highest channel (145.2kHz)	1.241 kHz	/

Lowest channel (114.3kHz)





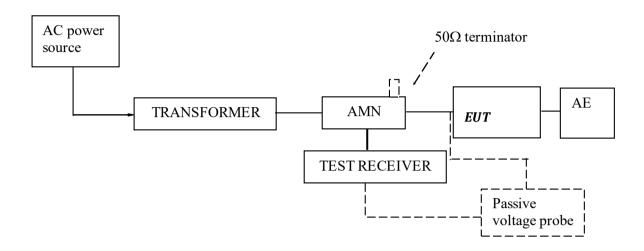
Highest channel (145.2kHz)





6.0 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.

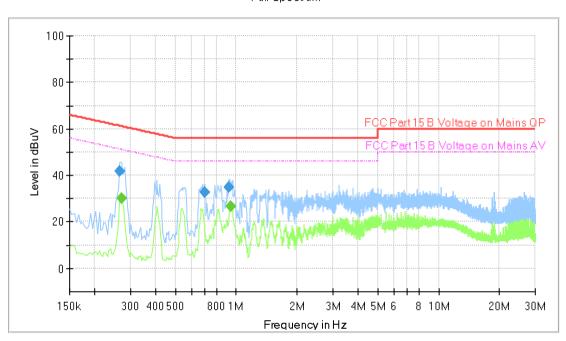


Test Data and Curve (Worst case 9V/1.67A)

At main terminal: Pass

Tested Wire: Live

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.266000	41.66		61.24	19.58	1000.0	9.000	L1	ON	9.8
0.270000		30.16	51.12	20.96	1000.0	9.000	L1	ON	9.8
0.698000	32.67		56.00	23.33	1000.0	9.000	L1	ON	9.8
0.918000	34.97		56.00	21.03	1000.0	9.000	L1	ON	9.8
0.938000		26.71	46.00	19.29	1000.0	9.000	L1	ON	9.8

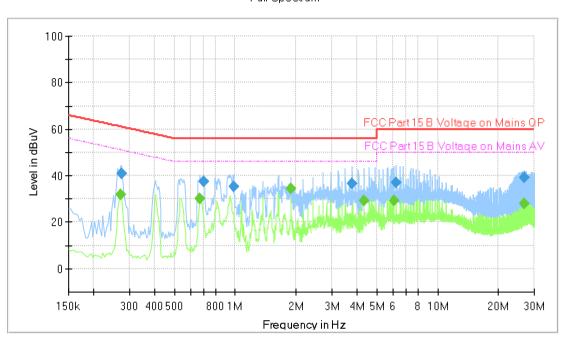
Remark:

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



Tested Wire: Neutral

Full Spectrum



Final Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)	Time	(kHz)			(dB)
					(ms)				
0.270000	-	31.80	51.12	19.32	1000.0	9.000	N	ON	9.8
0.274000	40.88		61.00	20.11	1000.0	9.000	N	ON	9.8
0.670000		30.02	46.00	15.98	1000.0	9.000	N	ON	9.8
0.698000	37.50		56.00	18.50	1000.0	9.000	N	ON	9.8
0.978000	35.41		56.00	20.59	1000.0	9.000	N	ON	9.8
1.882000		34.48	46.00	11.52	1000.0	9.000	N	ON	9.8
3.786000	36.49		56.00	19.51	1000.0	9.000	N	ON	9.9
4.326000		29.13	46.00	16.87	1000.0	9.000	N	ON	9.9
6.054000		29.17	50.00	20.83	1000.0	9.000	N	ON	10.0
6.222000	37.12		60.00	22.88	1000.0	9.000	N	ON	10.0
26.778000		28.10	50.00	21.90	1000.0	9.000	N	ON	10.7
26.778000	39.13		60.00	20.87	1000.0	9.000	N	ON	10.7

Remark:

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



7.0 Test Equipment List

Radiated Emission/Radio

Environment No	E-minus aut	Model	Manufacturer	Cal. Due date	Calibration	
Equipment No.	Equipment	Model	Manufacturer	(YYYY-MM-DD)	Interval	
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS•LINDGRE N	2022-04-06	1Y	
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2022-11-16	1Y	
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2022-12-23	1Y	
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2022-06-25	1Y	
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz) (TX)	VULB 9161	SCHWARZBECK	2022-06-18	1Y	
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2022-10-18	1Y	
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2022-06-18	1Y	
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2022-04-22	1Y	
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2022-04-22	1Y	
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2022-04-05	1Y	
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2022-04-05	1Y	
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2022-04-23	1Y	
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2022-07-19	1Y	
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y	
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y	
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y	
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2022-05-11	1Y	
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2022-02-04	1Y	
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2022-10-09	1Y	
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y	
SA040-22	Regulated DC Power supply	IT6721	ITECH	2022-09-01	1Y	
EM084-06	Audio Analyzer	8903B	НР	2022-04-11	1Y	
EM046-05	Power meter	NPR6A	R&S	2022-03-11	1Y	
EM046-06	Power meter	NPR6A	R&S	2022-03-11	1Y	
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A	
EM045-01-09	EMC32 software (328/893)	V9.26.01	R&S	N/A	N/A	

Conducted emission at the mains terminals

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM080-05	EMI receiver	ESCI	R&S	2022-07-15	1Y
EM006-05	LISN	ENV216	R&S	2022-06-06	1Y
EM006-06	LISN	ENV216	R&S	2022-09-03	1Y
EM006-06-01	Coaxial cable	/	R&S	2022-04-05	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	2023-01-06	1Y