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Report Template Version: V04 Report Template Revision Date: 2018-07-06

Test Report

Report No.:	CQASZ20210300309E-01			
Applicant:	Shenzhen Times Innovation Technology Co., Ltd			
Address of Applicant:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.			
Equipment Under Test	(EUT):			
Product:	Baseus Simple 2 in 1 Wireless Charger(Turbo Edition)			
Model No.:	BS-W508			
Test Model No.:	BS-W508			
Brand Name:	Baseus			
FCC ID:	2AY37-W508			
Standards:	47 CFR Part 15, Subpart C			
Date of Receipt:	2021-03-18			
Date of Test:	2021-03-18 to 2021-04-29			
Date of Issue:	2021-04-29			
Test Result:	PASS*			

*In the configuration tested, the EUT complied with the standards specified above

Tested By: _____lewis ZhOU (Lewis Zhou) Timo Lej Reviewed By: (Timo Lei)

Approved By: Shlek, Luo (Sheek Luo)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210300309E-01	Rev.01	Initial report	2021-04-29



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215	ANSI C63.10 2013	PASS
Radiated Emission , Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	Shenzhen Times Innovation Technology Co., Ltd
Address of Applicant:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Manufacturer:	Shenzhen Times Innovation Technology Co., Ltd
Address of Manufacturer:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Factory:	Dongguan goal lock electronic technology co.,Ltd
Address of Factory:	Room 302, 2 Building, No.8, Sha Bu Street, Bamboo oda, Fenggang Town,
	Dongguan City, Guangdong Province

4.2 General Description of EUT

Product Name:	Baseus Simple 2 in 1 Wireless Charger(Turbo Edition)
Model No.:	BS-W508
Test Model No.:	BS-W508
Brand Name:	Baseus
Hardware Version:	N/A
Software Version:	N/A
EUT Power Supply:	Input :Type-C 9V/2A, 12V/2A

4.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	110kHz~205kHz
Modulation Type:	Induction
Antenna Type:	Induction coil
Antenna Gain:	0dBi

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.



4.4 Test Environment

Operating Environmen	t:
Radiated Emissions:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.5 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item	test (RF Conducted test room):
Temperature:	27.3 °C
Humidity:	58 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Wireless output Mode at TWS 2.5W
Mode b:	Wireless output Mode at 5W
Mode c:	Wireless output Mode at 7.5W
Mode d:	Wireless output Mode at 10W
Mode e:	Wireless Total output Mode at 10W + 10W
Note: The mode a was	the worst case and only the data of the worst case record in this report.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	HUAWEI	LPL-C010050200Z	DOC	CQA
2) Cable				
Cable No.	Description Manufacturer		Cable Type/Length	Supplied by
/	/	/	/	/



4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Occupied Bandwidth	1.1%	(1)
4	Temperature test	0.8°C	(1)
5	Humidity test	2.0%	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10Other Information Requested by the Customer

None.



4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/25	2021/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/10/25	2021/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2020/10/21	2021/10/20
Bilog Antenna	R&S	HL562	CQA-011	2020/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2020/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/25	2021/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
LISN	R&S	ENV216	CQA-003	2020/10/23	2021/10/22
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25
DC power	KEYSIGHT	E3631A	CQA-028	2020/9/26	2021/9/25





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

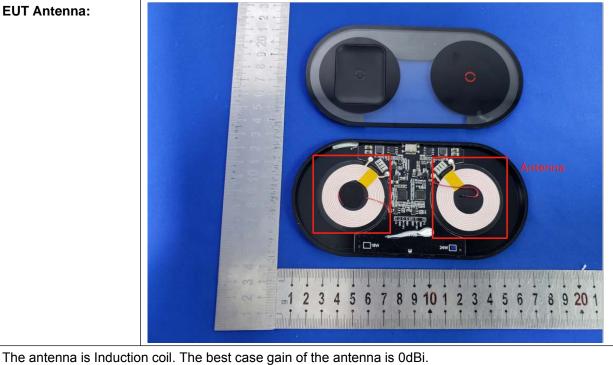
15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:





5.2	Conducted Emission	S
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Test Requirement	nt:	47 CFR Part 15C Section 15.2	207				
Test Method:		ANSI C63.10: 2013					
Test Frequency	Range:	150kHz to 30MHz					
Limit:			Limit (dBuV)				
		Frequency range (MHz)	Quasi-peak	Average			
		0.15-0.5	66 to 56*	56 to 46*			
		0.5-5	56	46			
		5-30	60	50	1		
		* Decreases with the logarithn	n of the frequency.				
Test Procedure:		 The mains terminal disturbution. The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the rational ground reference plane. A placed on the horizontal ground reference plane. An placed on the horizontal ground reference plane. The EUT shall be 0.4 m vertical ground reference reference plane. The LISN unit under test and bon mounted on top of the grout the closest points of the L and associated equipment 5) In order to find the maximum and all of the interface cat ANSI C63.10: 2013 on con 	to AC power source etwork) which provides cables of all other SN 2, which was bonde as the LISN 1 for the was used to connect r ating of the LISN was r aced upon a non-meta nd for floor-standing a round reference plane. th a vertical ground ref from the vertical ground from the vertical ground plane was bonded N 1 was placed 0.8 m ded to a ground ref und reference plane. T LISN 1 and the EUT. was at least 0.8 m from um emission, the relation plane must be changed a	through a LISN 1 s a $50\Omega/50\mu$ H + 5Ω units of the EUT ed to the ground reference dunit being measur multiple power cable not exceeded. Allic table 0.8m above rrangement, the EUT ference plane. The re- und reference plane to the horizontal g from the boundary of ference plane for I this distance was been All other units of the m the LISN 2.	(Line linear were rence ed. A s to a ve the T was ear of . The round of the LISNs tween e EUT		
Test Setup:		Shielding Room	AE B B B C C C C C C C C C C C C C	Test Receiver			
Test Results:		Pass					
		*					

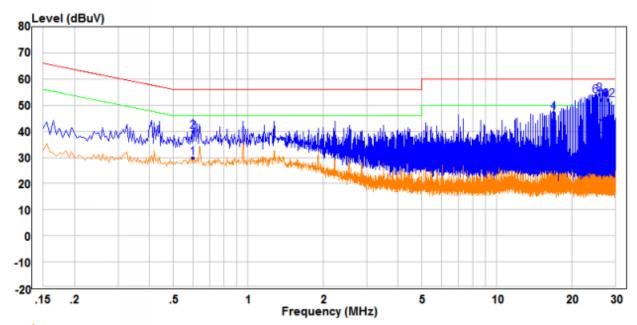


Measurement Data

The worst case:

Mode e:

Live line:



		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
-	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.600	20.22	9.70	29.92	46.00	-16.08	Average	Line
2	0.600	30.29	9.70	39.99	56.00	-16.01	QP	Line
3	16.900	30.67	9.97	40.64	50.00	-9.36	Average	Line
4	16.900	37.09	9.97	47.06	60.00	-12.94	QP	Line
5 AV	24,995	31.01	10.04	41.05	50.00	-8,95	Average	Line
6	24.995	43.46	10.04	53.50	60.00	-6.50	QP	Line
7	25.910	30.16	10.07	40.23	50.00	-9.77	Average	Line
8 PP	25.910	44.09	10.07	54.16	60.00	-5.84	QP	Line
9	26.525	25.24	10.11	35.35	50.00	-14.65	Average	Line
10	26.525	41.93	10.11	52.04	60.00	-7.96	QP	Line
11	28.055	28.76	10.16	38.92	50.00	-11.08	Average	Line
12	28.055	41.96	10.16	52.12	60.00	-7.88	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

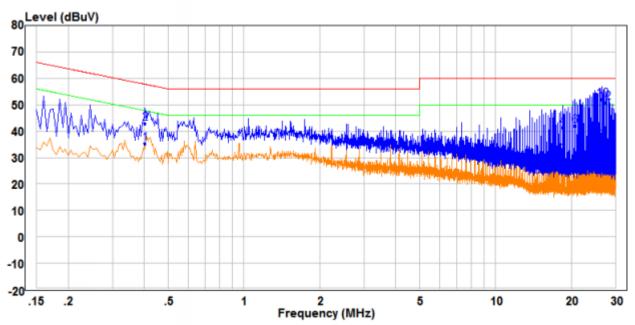
3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

Mode d:

Neutral line:



	Freq	Read	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
_	нсq	Level						
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 AV	0.405	25.78	9.54	35.32	47.75	-12.43	Average	Neutral
2	0.405	33.32	9.54	42.86	57.75	-14.89	QP	Neutral
3	18.505	20.85	10.02	30.87	50.00	-19.13	Average	Neutral
4	18.505	31.50	10.02	41.52	60.00	-18.48	QP	Neutral
5	20.740	17.24	10.06	27.30	50.00	-22.70	Average	Neutral
6	20.740	32.10	10.06	42.16	60.00	-17.84	QP	Neutral
7	24.885	21.78	10.04	31.82	50.00	-18.18	Average	Neutral
8	24.885	37.85	10.04	47.89	60.00	-12.11	QP	Neutral
9	26.480	26.28	10.09	36.37	50.00	-13.63	Average	Neutral
10 PP	26.480	42.03	10.09	52.12	60.00	-7.88	QP	Neutral
11	27.140	22.75	10.10	32.85	50.00	-17.15	Average	Neutral
12	27.140	40.64	10.10	50.74	60.00	-9.26	QP	Neutral

Remark:

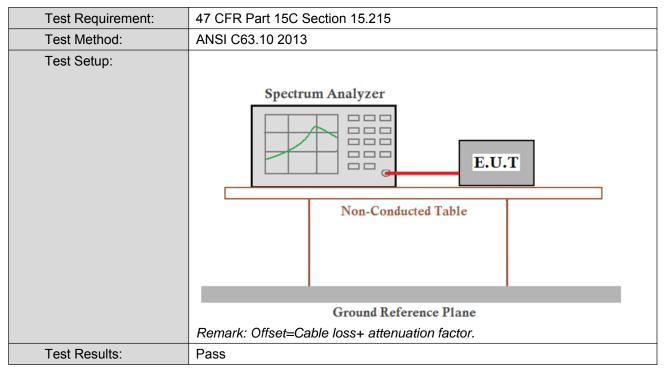
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



5.3 20dB Occupy Bandwidth

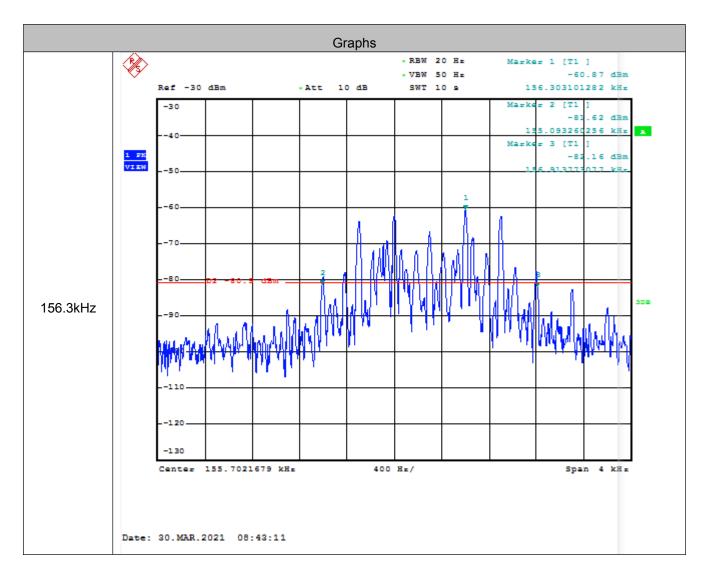


Measurement Data

Mode a						
Test Frequency (kHz)	20dB Occupy Bandwidth (Hz)	Result				
156.3	1827	Pass				



Test plot as follows:





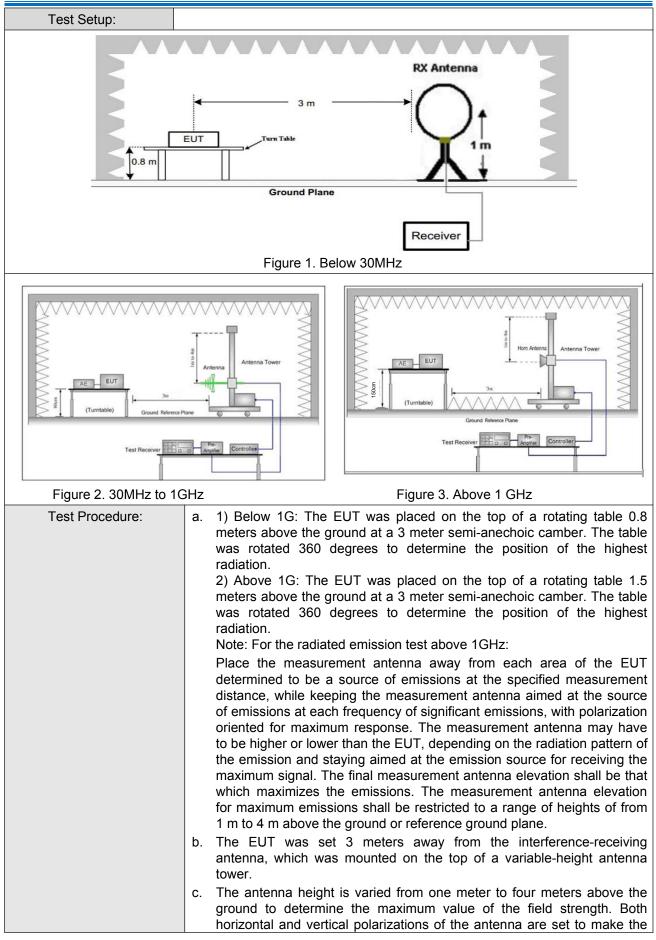
5.4 Radiated Spurious Emission & Restricted bands

5.4.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3n	n (Semi-Anecł	noic Cham	ber)		
Receiver Setup:	Frequency		Detector	RBW	RBW VBW		Remark]]
	0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak	
	0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average	1
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak	
	0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	30MHz-1GHz		Quasi-peak	100 kH	łz	300kHz	Quasi-peak]
	Abava 4011-		Peak	1MHz	2	3MHz	Peak]
	Above 1GHz		Peak	1MHz	2	10Hz	Average	
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measureme distance (n	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30	
	1.705MHz-30MHz		30	-			30	
	30MHz-88MHz		100	40.0	40.0 Quasi-peak		3	
	88MHz-216MHz	/Hz 150		43.5	43.5 Quasi-peak		3	
	216MHz-960MHz	/Hz 200		46.0	46.0 Quasi-peak		3	
	960MHz-1GHz	500		54.0	Quasi-peak		3	
	Above 1GHz	Above 1GHz 500		54.0	4	Average	3	
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c equip	dB above the oment under t	maximum est. This p	per	mitted ave	erage emissio	n



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	neasurement.	
	nd then the antenna was tuned t he test frequency of below 30MF	e EUT was arranged to its worst case to heights from 1 meter to 4 meters (for Hz, the antenna was tuned to heights 1 was turned from 0 degrees to 360 ling.
	The test-receiver system was set Bandwidth with Maximum Hold Mo	to Peak Detect Function and Specified ode.
	mit specified, then testing could EUT would be reported. Otherwis nargin would be re-tested one average method as specified and	
	Repeat above procedures until all	frequencies measured was complete.
Test Results:		

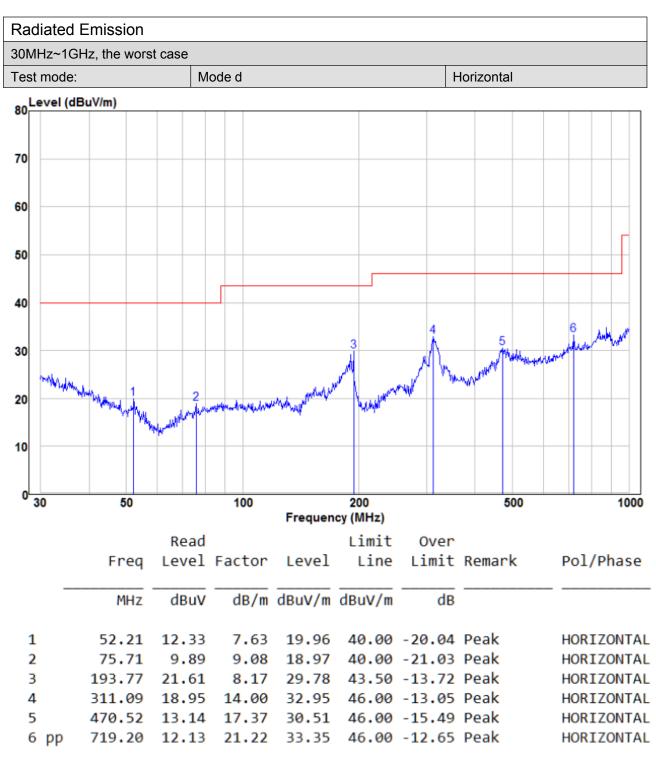
Radiated Emission below 9k~30MHz			
the worst case			
Test mode:	Mode e		

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.1563	Face	50.24	19.59	69.83	104.50	34.67	Pass
0.1563	Side	49.77	19.59	69.36	104.50	35.14	Pass

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.



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Remark:

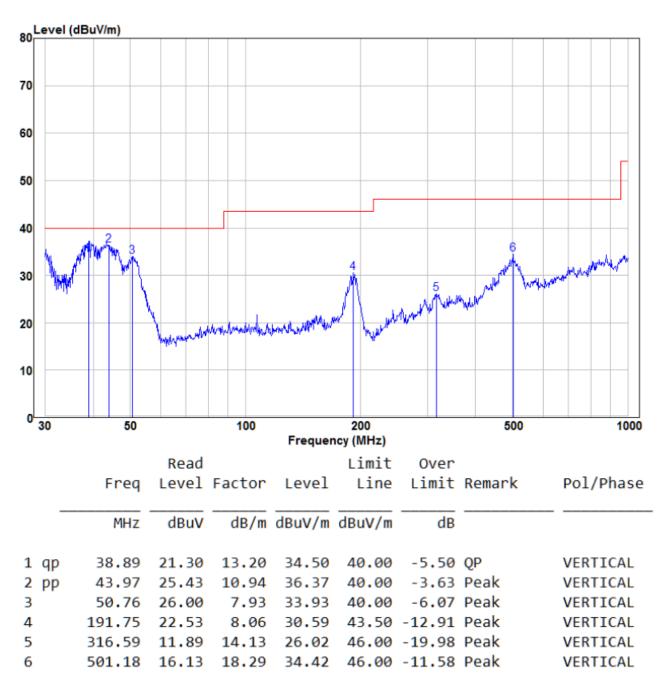
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor



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30MHz~1GHz, the worst case					
Test mode:	Mode a	Vertical			



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor





6 Photographs - EUT Test Setup

6.1 Radiated Emission

9kHz~30MHz:

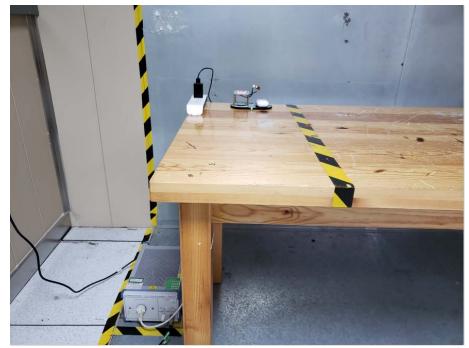


30MHz~1GHz:





6.2 Conducted Emission





7 Photographs - EUT Constructional Details

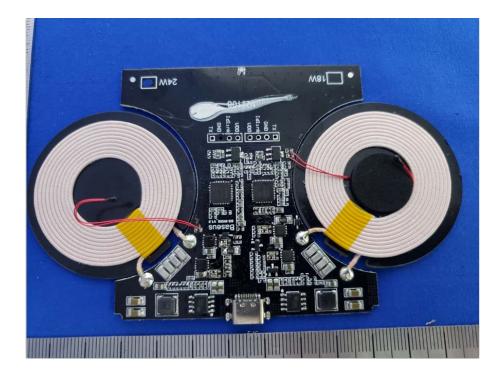
Test Model No.: BS-W508





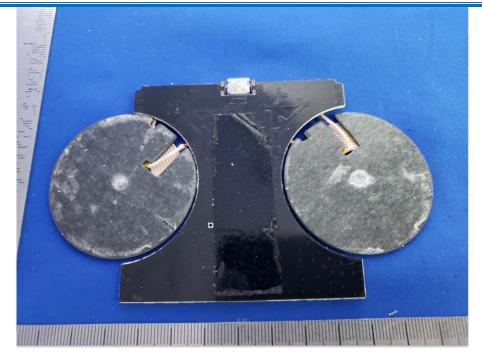








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*** End of Report ***