Shenzhen Huaxia Testing Technology Co., Ltd.



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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Report No.: Applicant: Address of Applicant:	CQASZ20230701310E-01 Shenzhen Baseus Technology Co., Ltd. 2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Equipment Under Test (EUT):
Product:	Power Bank
Model No.:	PPCXZ05
Test Model No.:	PPCXZ05
Brand Name:	baseus
FCC ID:	2A482-PPCXZ05
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2023-7-20
Date of Test:	2023-7-20 to 2023-7-27
Date of Issue:	2023-8-21
Test Result:	PASS*

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

Tested By:	Jol	
	(Joe Wang)	TESTING TECH
Reviewed By:	Timo Loj	
	(Timo Lei)	国华夏准测
Approved By:	Jamos	APPROVED *
	(Jack Ai)	

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
CQASZ20230701310E-01	Rev.01	Initial report	2023-8-21



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



3 Contents

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7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	



4 General Information

4.1 Client Information

Applicant:	Shenzhen Baseus Technology Co., Ltd.
Address of Applicant: 2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Re Gangtou Community, Bantian Street, Longgang District, Shenzhen.	
Manufacturer:	Shenzhen Baseus Technology Co., Ltd.
Address of Manufacturer: 2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Gangtou Community, Bantian Street, Longgang District, Shenzhen	
Factory:	Shenzhen Hasmine Technology Co., Ltd
Address of Factory:	Floor 2, Building 8, Haomai High-tech park,Huating Road.Dalang street,Longhua new district,Shenzhen,Guangdong

4.2 General Description of EUT

Product Name:	Power Bank
Model No.:	PPCXZ05
Test Model No.:	PPCXZ05
Brand Name:	baseus
Software Version:	V1.3
Hardware Version:	V1.4
EUT Power Supply:	Li-ion battery DC 3.85V 5000mAh, Charge by DC 5V for adapter

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 Environment	:
Radiated Emissions:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.8 °C
Humidity:	58 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item te	est (RF Conducted test room):
Temperature:	27.1 °C
Humidity:	56 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Keep the EUT Wireless Out Put 5W
Mode b:	Keep the EUT Wireless Out Put 7.5W
Mode c:	Keep the EUT Wireless Out Put 10W
Mode d:	Keep the EUT Wireless Out Put 15W (Max)

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
Wireless charge load	/	1	/	CQA
Adapter	/	LPL-C010050200Z	/	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	1	/	/	1



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.



4.11Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8
DC power	KEYSIGHT	E3631A	CQA-028	2022/9/9	2023/9/8





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

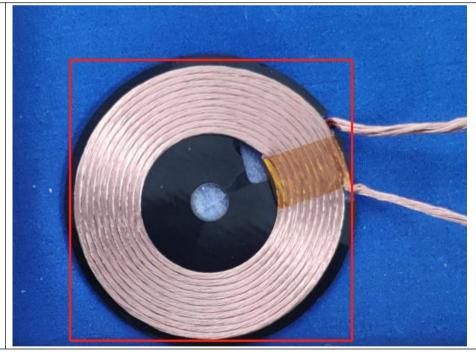
15.203 requirement:

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:



The antenna is Induction coil. The best case gain of the antenna is 0dBi.



Test Method: ANSI C63.10: 2013 Test Frequency Range: 150kHz to 30MHz Limit:	Test Requirement:	47 CFR Part 15C Section 15.2	207					
Test Frequency Range: 150kHz to 30MHz Limit: Frequency range (MHz) Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (in the unit being measured. A multiple socket outlet strip was used to connect multiple prover cables of all other units of the EUT were connected to a second LISN 2, which was borded to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The IUSN hord the LISN has not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The ture vortical ground reference plane. 4) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The UISN hord the LISN has not exceeded. 4) The tabletop EUT was placed 0.8 m from the boundary of the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN has not exceeded. 4) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The unit of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The istimate was between the closeset p	•							
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Shielding Room Test Receiver Test		and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to						
Test Results: Pass	Test Setup:	AC Mains						
	Test Results:	Pass						

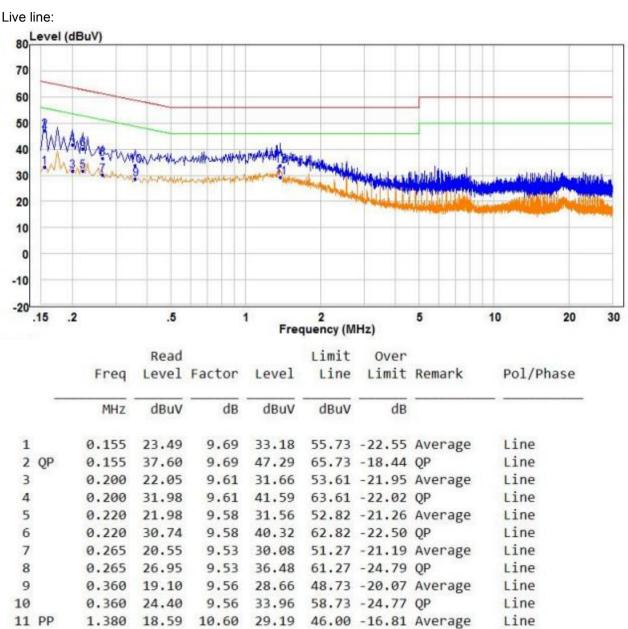
5.2 Conducted Emissions



Line

Measurement Data

The worst case:mode d



Remark:

12

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

1.380 23.16 10.60 33.76 56.00 -22.24 QP

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

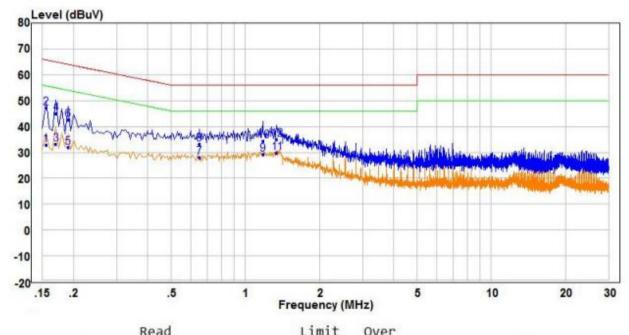
3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

mode d:

Neutral line:



		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB	-	
1		0.155	23.30	9.69	32.99	55.73	-22.74	Average	Neutral
2 (QP	0.155	37.61	9.69	47.30	65.73	-18.43	QP	Neutral
3		0.170	23.48	9.66	33.14	54.96	-21.82	Average	Neutral
4		0.170	35.37	9.66	45.03	64.96	-19.93	QP	Neutral
5		0.190	22.40	9.62	32.02	54.04	-22.02	Average	Neutral
6		0.190	33.08	9.62	42.70	64.04	-21.34	QP	Neutral
7		0.650	18.31	9.85	28.16	46.00	-17.84	Average	Neutral
8		0.650	23.43	9.85	33.28	56.00	-22.72	QP	Neutral
9		1.180	19.61	9.71	29.32	46.00	-16.68	Average	Neutral
10		1.180	24.71	9.71	34.42	56.00	-21.58	QP	Neutral
11 F	PP	1.340	20.07	9.72	29,79	46.00	-16.21	Average	Neutral
12		1.340	25.40	9.72	35.12	56.00	-20.88	QP	Neutral

Remark:

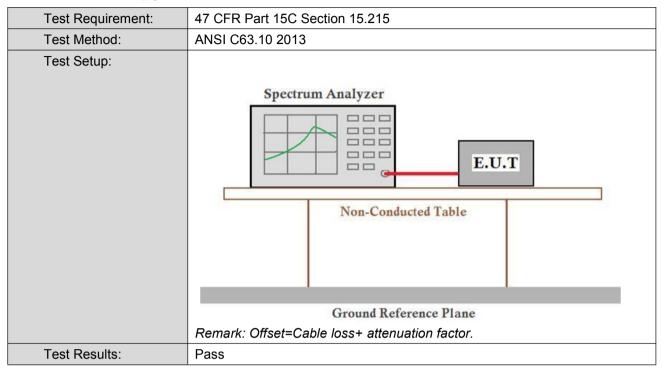
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

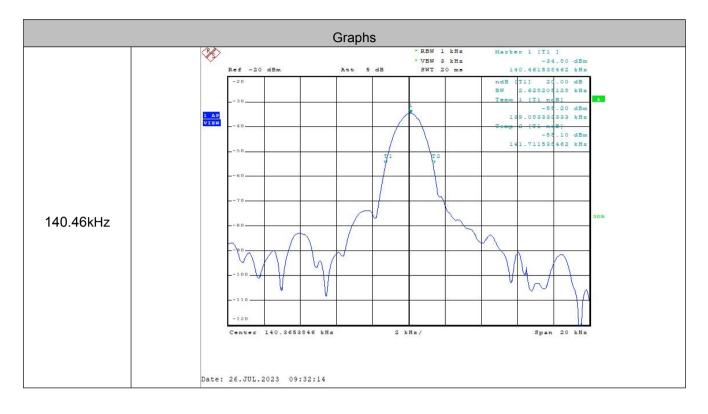


Measurement Data

Mode d					
Test Frequency (kHz)	20dB Occupy Bandwidth (Hz)	Result			
140.36	2628.2	Pass			



Test plot as follows:



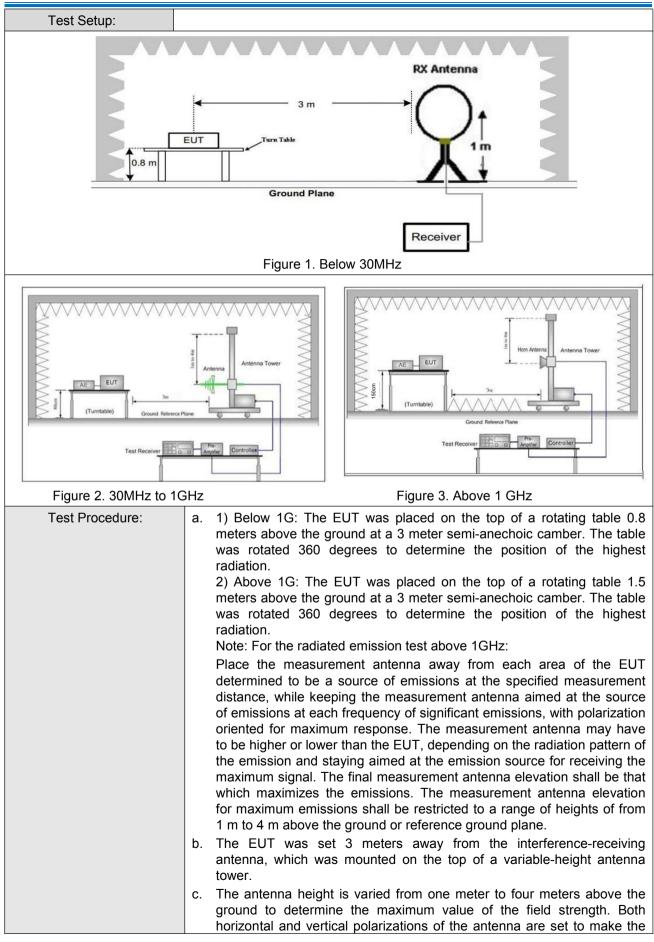


5.4 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average		
	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	lz 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	000/F(kHz)	-	-	30		
	1.705MHz-30MHz		30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz 200		200	46.0	Quasi-peak	3		
	960MHz-1GHz	960MHz-1GHz 500		54.0	Quasi-peak	3		
	Above 1GHz		500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	B above the ment under t	maximum est. This p	permitted ave	erage emissior		









		measurement.
		For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e.	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
		If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g.	Repeat above procedures until all frequencies measured was complete.
Test Results:	Pas	is

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

Frequency MHz	Detector	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.125	AV	40.61	19.80	60.41	105.68	-45.27	Pass
0.190	AV	39.83	19.80	59.63	102.02	-42.39	Pass
0.263	AV	38.05	19.80	57.85	99.21	-41.35	Pass
0.445	QP	40.48	19.80	60.28	94.63	-34.35	Pass
1.401	QP	15.26	19.70	34.96	64.68	-29.71	Pass
10.591	QP	11.10	19.70	30.80	69.54	-38.74	Pass

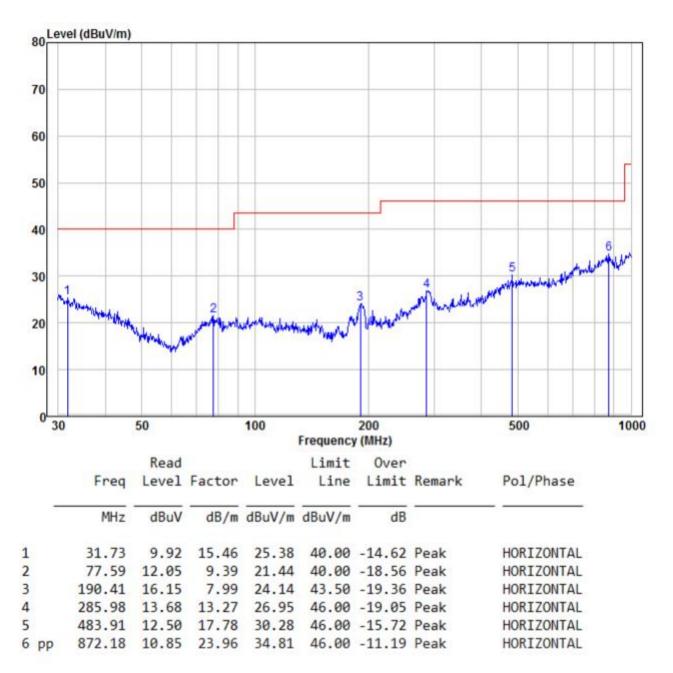
Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than1 the limit without test.



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Radiated Emission						
30MHz~1GHz, the worst case						
Test mode:	mode d	Horizontal				



Remark:

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

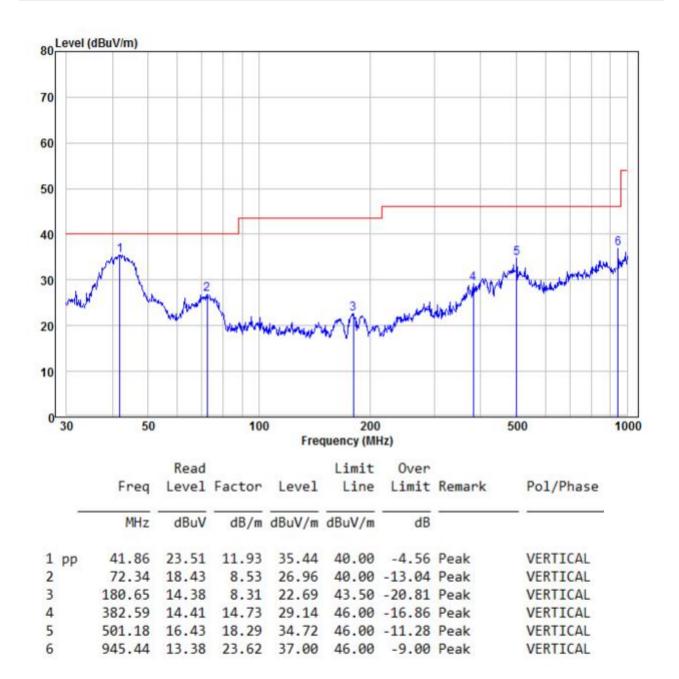
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor



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



Remark:

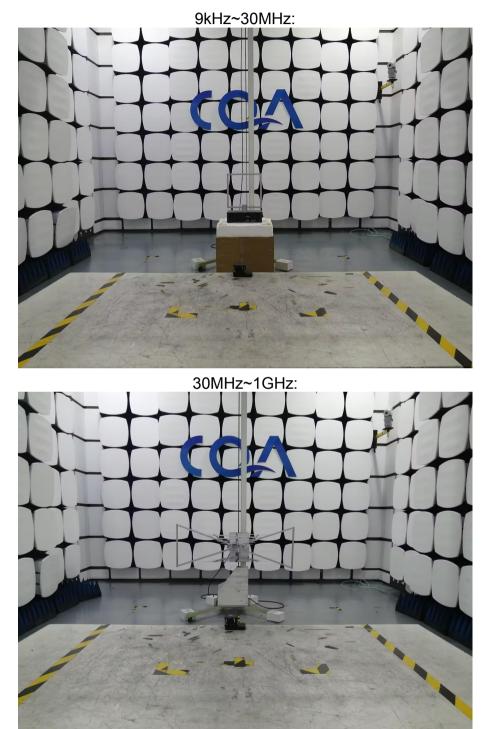
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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



6 Photographs - EUT Test Setup

6.1 Radiated Emission





6.2 Conducted Emission





7 Photographs - EUT Constructional Details







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